AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**183 ft Monopole**
ATC Site Name	:	**Milford CT 2, CT**
ATC Site Number	:	**302535**
Engineering Number	:	**OAA684493_C3_02**
Proposed Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**New Haven - Woodmont**
Carrier Site Number	:	**CTL02169 / 10035075**
Site Location	:	**185 Research Drive** **Milford, CT 06460-7733** **41.240419,-73.011900**
County	:	**New Haven**
Date	:	**September 28, 2016**
Max Usage	:	**79%**
Result	:	**Pass**

Reviewed by:
William Garrett, PE
Chief Engineer

STATE OF CONNECTICUT
WILLIAM GARRETT
No. 23235
LICENSED
PROFESSIONAL ENGINEER

Prepared By:
Robert D. Barrett, E.I.
Structural Engineer I

Robert D. Barrett

Reviewed By:

Sep 29 2016 6:13 PM

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COA: PEC.0001553

Table of Contents

Introduction 1

Supporting Documents 1

Analysis 1

Conclusion 1

Existing and Reserved Equipment 2

Equipment to be Removed 2

Proposed Equipment 3

Structure Usages 3

Foundations 3

Deflection, Twist, and Sway 3

Standard Conditions 4

Calculations ..... Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 183 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	Summit Manufacturing Drawing #1237-D1, dated September 9, 1994
Foundation Drawing	Summit Manufacturing Drawing #1237-F1 dated October 10, 1994
Geotechnical Report	French & Parrello Project #93N035CR1, dated November 2, 1993
Modifications	ATC Job #42659834, dated January 16, 2009 ATC Job #43915332, dated September 2, 2009 ATC Job #56682734, dated April 16, 2014

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	97 mph (3-Second Gust, V_{asd}) / 125 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	Ss = 0.19, S_1 = 0.06
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
183.0	185.0	2	DragonWave Horizon Compact	Platform w/ Handrails	(6) 5/16" Coax (3) 1/2" Coax (2) 2" Conduit	Clearwire
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
		2	DragonWave A-ANT-18G-2-C			
		6	Decibel DB844H90E-XY		(12) 1 5/8" Coax	Sprint Nextel
		3	Andrew 844G65VTZASX			
171.0	171.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	Metro PCS
167.0	167.0	6	Powerwave LGP21401	Platform w/ Handrails	(12) 1 1/4" Coax	AT&T Mobility
		2	Raycap DC6-48-60-18-8F			
		3	Ericsson RRUS 11 (Band 4)			
		3	Ericsson RRUS-32			
		3	Powerwave 7770.00			
		3	CCI OPA-65R-LCUU-H4			
146.0	146.0	3	Andrew ETW200VS12UB	Sector Frames	(18) 1 5/8" Coax	T-Mobile
		3	Andrew ETW190VS12UB			
		3	Andrew SBNHH-1D65A			
145.0	145.0	3	Kathrein Smart Bias Tee			
127.0	127.0	6	RFS FD9R6004/1C-3L	Platform w/ Handrails	(12) 7/8" Coax (9) 1 5/8" Coax (2) 1 5/8" Fiber	Verizon
		3	Alcatel-Lucent RRH2X60-1900A-4R			
		3	Alcatel-Lucent RRH2X60-AWS			
		3	Alcatel-Lucent RRH2x40-AWS			
		2	RFS DB-T1-6Z-8AB-0Z			
		3	Andrew HBXX-6516DS-A2M			
		3	Andrew LNX-4514DS-A1M			
		3	Antel BXA-80063/6CF			
		3	Andrew HBXX-6517DS-A2M			
7.0	7.0	2	Thales PCS VP/360/2 Type 8100	Stand-Off	-	T-Mobile

Equipment to be Removed

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
167.0	167.0	3	KMW AM-X-CD-14-65-00T-RET	-	-	AT&T Mobility
		3	Ericsson RRUS 11 (Band 4)			

Proposed Equipment

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
167.0	167.0	1	Commscope WCS-IMFQ-AMT	Platform w/ Handrails	(4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk (1) 2" Conduit	AT&T Mobility
		3	Powerwave LGP21401			
		3	Ericsson RRUS 32 B2			
		3	Quintel QS66512-2			

[1]Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	55%	Pass
Shaft	79%	Pass
Base Plate	48%	Pass
Reinforcement	73%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	4,484.7	66%
Axial (Kips)	67.9	6%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
183.0	DragonWave A-ANT-18G-2-C	Clearwire	3.105	1.929
167.0	Commscope WCS-IMFQ-AMT	AT&T Mobility	2.572	1.873
	Powerwave LGP21401			
	Ericsson RRUS 32 B2			
	Quintel QS66512-2			

***Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G**

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Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

-- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

-- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

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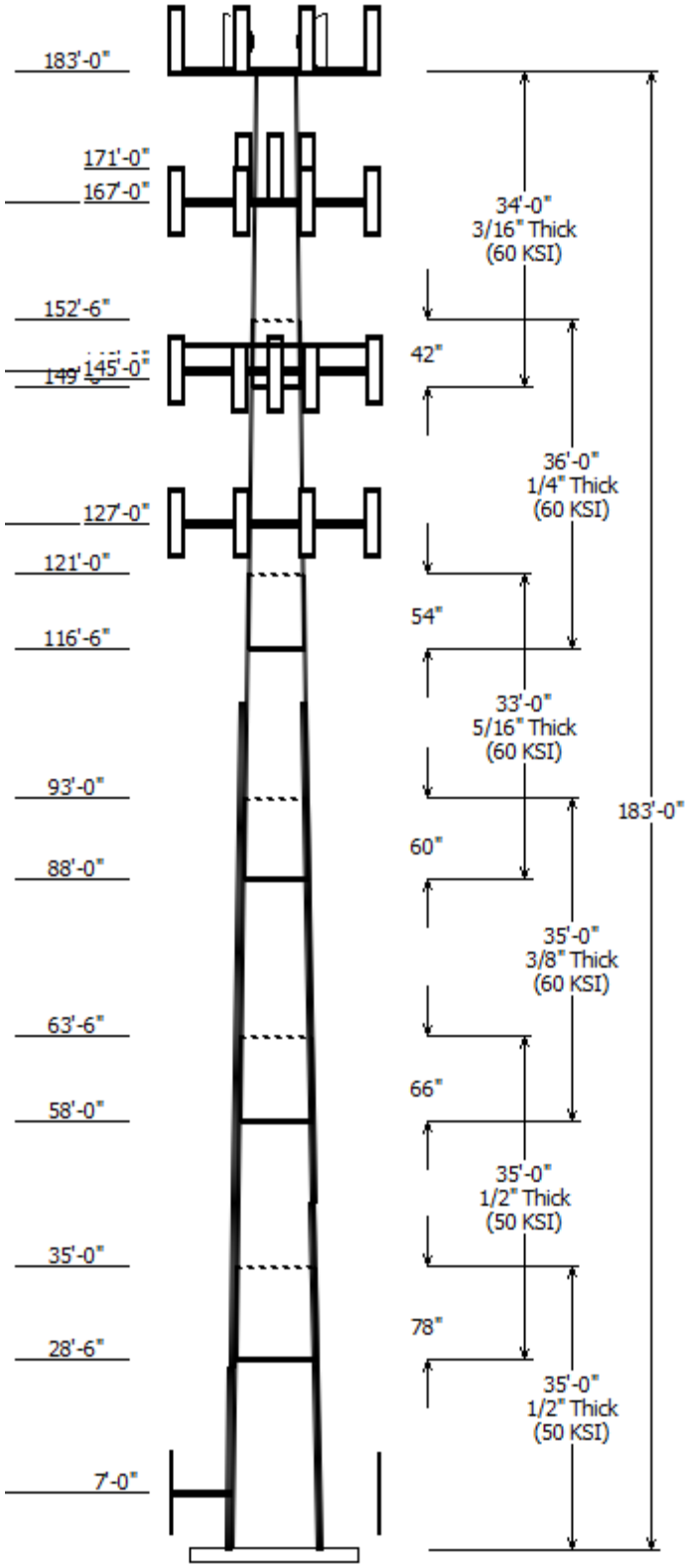


Job Information

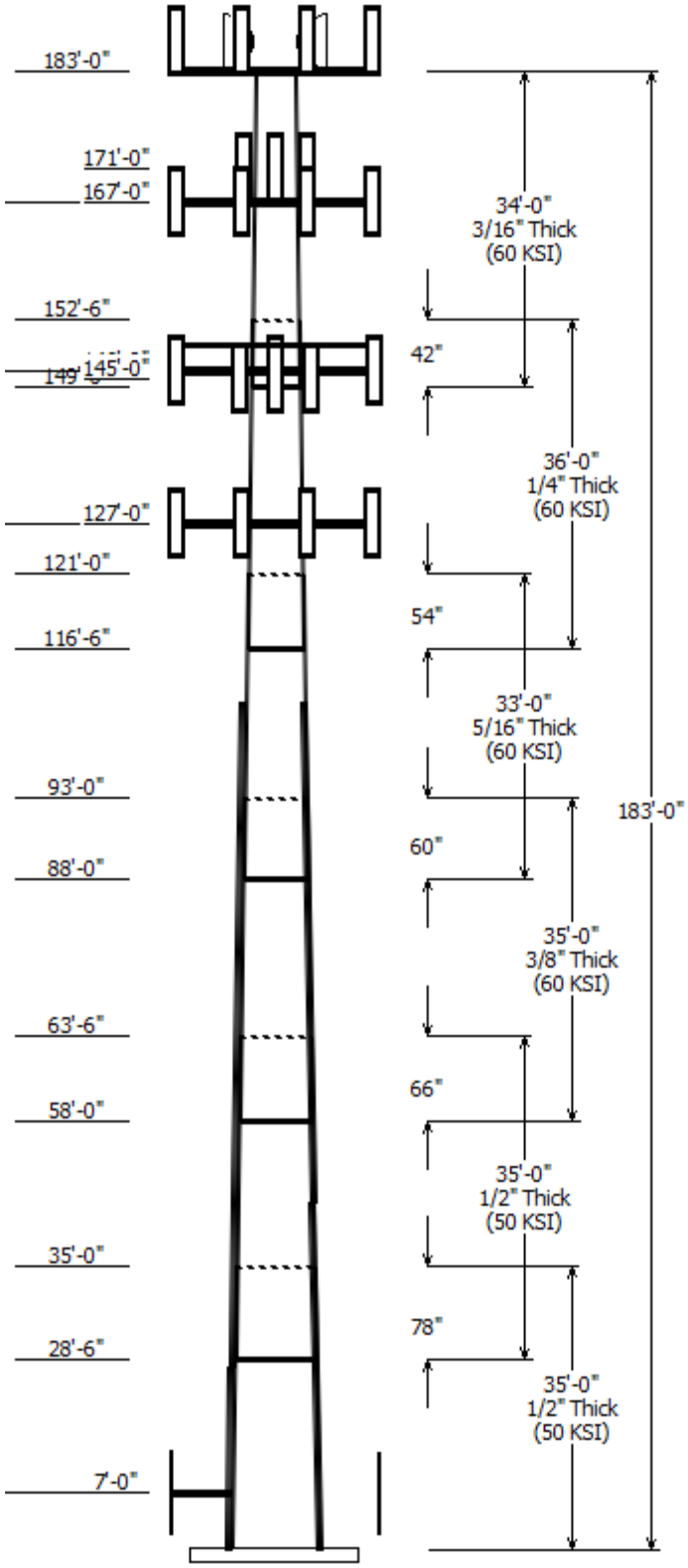
Pole :	302535	Code:	ANSI/TIA-222-G
Description :	183 ft Summit Monopole - Model verified 2/27/13		
Client :	AT&T Mobility	Struct Class :	II
Location :	Milford CT 2, CT		
Shape :	18 Sides	Exposure :	B
Height :	183.00 (ft)	Topo :	1
Base Elev (ft):	0.00		
Taper:	0.174917 (in/ft)		

Sections Properties

Shaft Section	Length (ft)	Diameter (in) Accross Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	35.000	42.49	48.62	0.500		0.000	0.174900	50
2	35.000	38.51	44.63	0.500	Slip Joint	78.000	0.174900	50
3	35.000	34.10	40.22	0.375	Slip Joint	66.000	0.174900	60
4	33.000	29.83	35.60	0.313	Slip Joint	60.000	0.174900	60
5	36.000	24.82	31.11	0.250	Slip Joint	54.000	0.174900	60
6	34.000	19.86	25.80	0.188	Slip Joint	42.000	0.174900	60

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
183.000	185.000	3	Andrew 844G65VTZASX
183.000	183.000	1	Flat Platform w/ Handrails
183.000	185.000	6	Decibel DB844H90E-XY
183.000	185.000	2	DragonWave Horizon Compact
183.000	185.000	3	Argus LLPX310R
183.000	185.000	3	NextNet BTS-2500
183.000	185.000	2	DragonWave A-ANT-18G-2-C
171.000	171.000	3	RFS APXV18-206517S-C
167.000	167.000	3	Quintel QS66512-2
167.000	167.000	3	Ericsson RRUS 32 B2
167.000	167.000	1	Commscope WCS-IMFQ-AMT
167.000	167.000	3	Powerwave Allgon LGP21401
167.000	167.000	3	CCI OPA-65R-LCUU-H4
167.000	167.000	3	Ericsson RRUS-32
167.000	167.000	2	Raycap DC6-48-60-18-8F
167.000	167.000	3	Ericsson RRUS 11 (Band 4)
167.000	167.000	1	Flat Platform w/ Handrails
167.000	167.000	6	Powerwave Allgon LGP21401
167.000	167.000	3	Powerwave Allgon 7770.00
146.000	146.000	3	Flat Light Sector Frame
146.000	146.000	3	Andrew SBNHH-1D65A
146.000	146.000	3	Andrew ETW190VS12UB
146.000	146.000	3	Andrew ETW200VS12UB
145.000	145.000	3	Kathrein Scala Smart Bias Tee
127.000	127.000	1	Flat Platform w/ Handrails
127.000	127.000	3	Andrew HBXX-6517DS-A2M
127.000	127.000	3	Antel BXA-80063/6CF
127.000	127.000	3	Andrew LNX-4514DS-A1M
127.000	127.000	3	Andrew HBXX-6516DS-A2M
127.000	127.000	1	RFS DB-T1-6Z-8AB-0Z
127.000	127.000	1	RFS DB-T1-6Z-8AB-0Z
127.000	127.000	3	Alcatel-Lucent RRH2x40-AWS
127.000	127.000	3	Alcatel-Lucent RRH2X60-AWS
127.000	127.000	3	Alcatel-Lucent RRH2X60-1900A-
127.000	127.000	6	RFS FD9R6004/1C-3L
7.000	7.000	1	Stand-Off
7.000	7.000	2	Thales PCS VP/360/2 Type 8100



Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
5.000	127.0	1 5/8" Coax	No
5.000	127.0	1 5/8" Fiber	No
5.000	127.0	1 5/8" Fiber	No
5.000	127.0	7/8" Coax	No
5.000	146.0	1 5/8" Coax	No
5.000	146.0	1 5/8" Coax	Yes
5.000	146.0	1 5/8" Coax	Yes
5.000	167.0	0.39" Fiber Trunk	No
5.000	167.0	0.78" 8 AWG 6	No
5.000	167.0	1 1/4" Coax	No
5.000	167.0	2" Conduit	No
5.000	171.0	1 5/8" Coax	Yes
5.000	183.0	1 5/8" Coax	No
5.000	183.0	1/2" Coax	Yes
5.000	183.0	2" Conduit	Yes
5.000	183.0	5/16" Coax	Yes
0.000	110.7	#20 Dywidag Bars	Yes

Load Cases

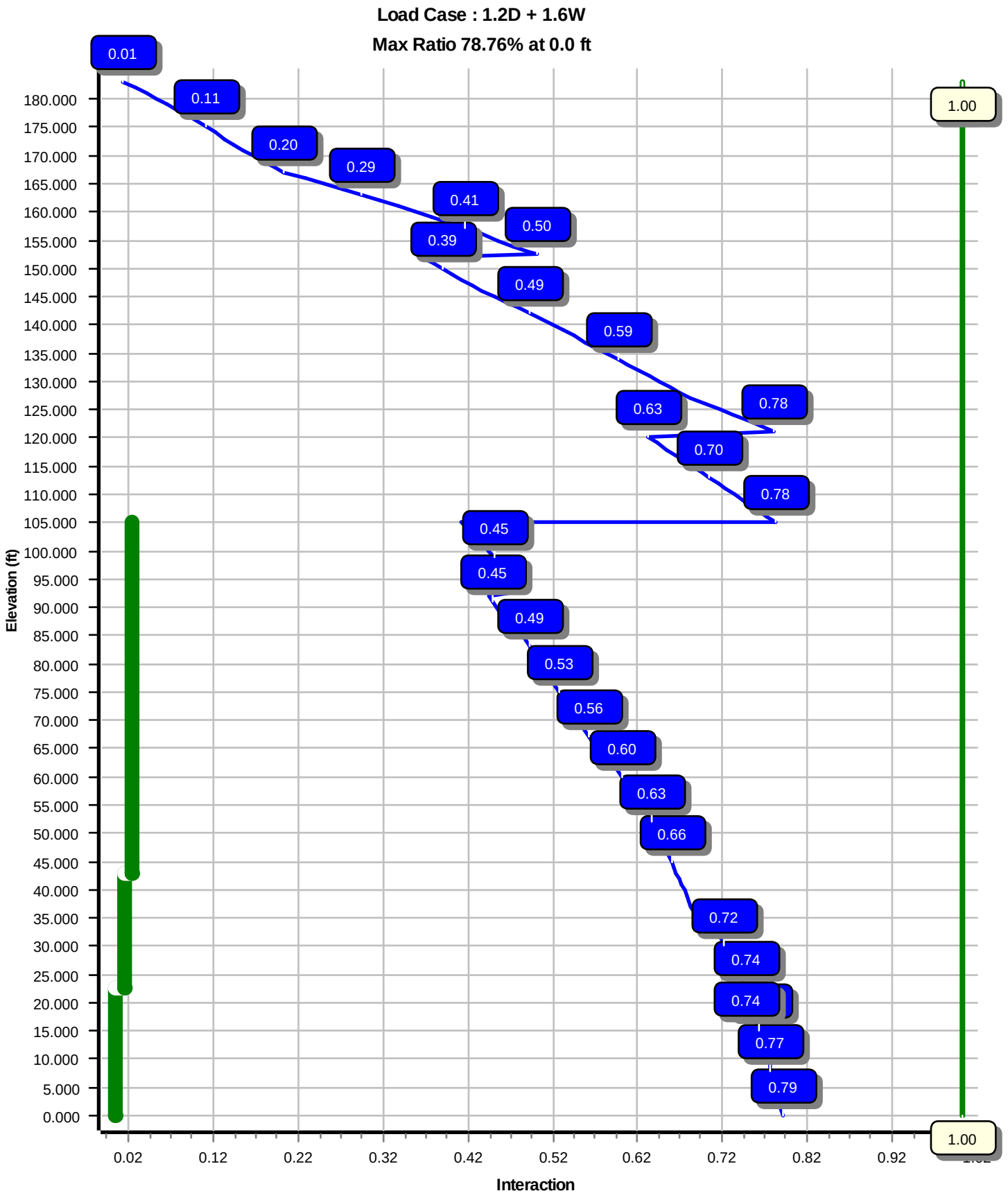
1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	4484.68	36.29	67.89
0.9D + 1.6W	4321.40	34.98	50.92
1.2D + 1.0Di + 1.0Wi	1135.61	8.71	107.52
(1.2 + 0.2Sds) * DL + E ELFM	321.66	2.21	69.81
(1.2 + 0.2Sds) * DL + E EMAM	339.83	2.75	69.81
(0.9 - 0.2Sds) * DL + E ELFM	314.81	2.20	48.34
(0.9 - 0.2Sds) * DL + E EMAM	332.42	2.75	48.34
1.0D + 1.0W	1040.26	8.36	56.59

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	183.00	37.260	1.929


Load Case : 1.2D + 1.6W
Max Ratio 78.76% at 0.0 ft
0.01
0.11
0.20
0.29
0.41
0.39
0.50
0.49
0.59
0.63
0.78
0.70
0.78
0.45
0.45
0.49
0.53
0.56
0.60
0.63
0.66
0.72
0.74
0.74
0.77
0.79
1.00
1.00
Elevation (ft)
180.000
175.000
170.000
165.000
160.000
155.000
150.000
145.000
140.000
135.000
130.000
125.000
120.000
115.000
110.000
105.000
100.000
95.000
90.000
85.000
80.000
75.000
70.000
65.000
60.000
55.000
50.000
45.000
40.000
35.000
30.000
25.000
20.000
15.000
10.000
5.000
0.000
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
Interaction

Site Number:	302535	Code: ANSI/TIA-222-G	© 2007 - 2016 by ATC IP LLC. All rights reserved.
Site Name:	Milford CT 2, CT	Engineering Number:OAA684493_C3_02	9/28/2016 11:01:59 PM
Customer:	AT&T Mobility		

Analysis Parameters

Location:	New Haven County, CT		
Code:	ANSI/TIA-222-G	Height (ft):	183
Shape:	18 Sides	Base Diameter (in):	48.62
Pole Type:	Taper	Top Diameter (in):	19.86
Pole Manfacturer:	Summit Manufacturing	Taper (in/ft) :	0.175

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	97 mph
Exposure Catagory:	B	Design Wind Speed With Ice:	50 mph
Topographic Catagory:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	0.00 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods				
Site Class:	D - Stiff Soil				
Period Based on Rayleigh Method (sec):	2.88				
T_L (sec):	6	p:	1.3	C_s:	0.030
S_s:	0.191	S_1:	0.063	C_s Max:	0.030
F_a:	1.600	F_v :	2.400	C_s Min:	0.030
S_{ds}:	0.204	S_{d1}:	0.101		

Load Cases

1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2Sds) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

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Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in²)	Bottom Ix (in⁴)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (in²)	Top Ix (in⁴)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	35.000	0.5000	50		0.00	8,516	48.62	0.00	76.36	22340.1	15.74	97.24	42.49	35.00	66.65	14852.2	13.58	85.00	0.174917
2-18	35.000	0.5000	50	Slip	78.00	7,763	44.63	28.50	70.04	17236.7	14.33	89.27	38.51	63.50	60.32	11012.7	12.17	77.03	0.174917
3-18	35.000	0.3750	60	Slip	66.00	5,215	40.22	58.00	47.43	9515.8	17.50	107.27	34.10	93.00	40.14	5769.4	14.62	90.94	0.174917
4-18	33.000	0.3125	60	Slip	60.00	3,609	35.60	88.00	35.00	5507.2	18.68	113.93	29.83	121.00	29.28	3222.7	15.42	95.46	0.174917
5-18	36.000	0.2500	60	Slip	54.00	2,694	31.11	116.50	24.49	2948.2	20.54	124.47	24.82	152.50	19.50	1486.9	16.10	99.28	0.174917
6-18	34.000	0.1875	60	Slip	42.00	1,559	25.80	149.00	15.25	1264.3	22.86	137.64	19.86	183.00	11.71	572.4	17.27	105.92	0.174917
				Shaft Weight		29,356													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor	Distance From Face (ft)	Vert Ecc (ft)
183.00	Andrew 844G65VTZASX	3	16.00	5.310	0.71	175.69	6.332	0.71	0.000	2.000
183.00	Argus LLPX310R	3	28.60	4.290	0.63	139.10	5.208	0.63	0.000	2.000
183.00	Decibel DB844H90E-XY	6	14.00	3.610	0.74	127.41	3.941	0.74	0.000	2.000
183.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	1.00	126.82	5.992	1.00	0.000	2.000
183.00	DragonWave Horizon	2	10.60	0.430	0.50	41.81	1.110	0.50	0.000	2.000
183.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,452.29	63.831	1.00	0.000	0.000
183.00	NextNet BTS-2500	3	35.00	1.820	0.50	64.90	3.116	0.50	0.000	2.000
171.00	RFS APXV18-206517S-C	3	26.40	5.170	0.68	146.03	6.426	0.68	0.000	0.000
167.00	CCI OPA-65R-LCUU-H4	3	57.00	6.080	0.66	221.04	7.137	0.66	0.000	0.000
167.00	Commscope WCS-IMFQ-AMT	1	29.50	0.990	0.50	73.16	1.419	0.50	0.000	0.000
167.00	Ericsson RRUS 11 (Band 4)	3	44.00	2.570	0.50	126.56	3.228	0.50	0.000	0.000
167.00	Ericsson RRUS 32 B2	3	53.00	2.740	0.50	142.26	3.482	0.50	0.000	0.000
167.00	Ericsson RRUS-32	3	77.00	3.310	0.50	175.48	4.608	0.50	0.000	0.000
167.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,439.02	63.636	1.00	0.000	0.000
167.00	Powerwave Allgon 7770.00	3	35.00	5.510	0.65	171.83	6.572	0.65	0.000	0.000
167.00	Powerwave Allgon LGP21401	6	14.10	1.100	0.50	48.24	1.569	0.50	0.000	0.000
167.00	Powerwave Allgon LGP21401	3	14.10	1.100	0.50	48.24	1.569	0.50	0.000	0.000
167.00	Quintel QS66512-2	3	111.00	8.130	0.74	341.09	9.444	0.74	0.000	0.000
167.00	Raycap DC6-48-60-18-8F	2	20.00	1.110	1.00	101.57	2.529	1.00	0.000	0.000
146.00	Andrew ETW190VS12UB	3	11.00	0.760	0.50	36.69	1.016	0.50	0.000	0.000
146.00	Andrew ETW200VS12UB	3	11.00	0.470	0.50	29.24	0.374	0.50	0.000	0.000
146.00	Andrew SBNHH-1D65A	3	40.90	5.880	0.69	198.58	6.951	0.69	0.000	0.000
146.00	Flat Light Sector Frame	3	400.00	17.900	0.75	700.66	32.974	0.75	0.000	0.000
145.00	Kathrein Scala Smart Bias	3	3.30	0.090	0.50	10.06	0.244	0.50	0.000	0.000
127.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.50	115.97	2.792	0.50	0.000	0.000
127.00	Alcatel-Lucent RRH2X60-	3	46.00	1.870	0.50	113.49	2.449	0.50	0.000	0.000
127.00	Alcatel-Lucent RRH2X60-	3	44.00	1.880	0.50	111.79	2.462	0.50	0.000	0.000
127.00	Andrew HBXX-6516DS-A2M	3	30.60	5.420	0.67	171.73	6.422	0.67	0.000	0.000
127.00	Andrew HBXX-6517DS-A2M	3	43.00	8.530	0.68	216.26	11.393	0.68	0.000	0.000
127.00	Andrew LNX-4514DS-A1M	3	29.50	6.780	0.64	193.85	7.856	0.64	0.000	0.000
127.00	Antel BXA-80063/6CF	3	14.90	7.580	0.65	179.07	8.821	0.65	0.000	0.000
127.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,400.02	63.060	1.00	0.000	0.000
127.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.50	184.87	5.658	0.50	0.000	0.000
127.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.50	184.87	5.658	0.50	0.000	0.000
127.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	15.91	0.576	0.50	0.000	0.000
7.00	Stand-Off	1	75.00	2.500	1.00	101.78	3.456	1.00	0.000	0.000
7.00	Thales PCS VP/360/2 Type	2	0.30	0.030	1.00	3.29	0.140	1.00	0.000	0.000
	Totals	102	10141.60			24,021.19			Number of Loadings :	37

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Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Flat	Projected Width (in)	Exposed To Wind	Carrier
5.00	183.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	Sprint Nextel
5.00	183.00	3	1/2" Coax	0.63	0.15	N	0.00	Y	Clearwire Corporation
5.00	183.00	2	2" Conduit	2.38	3.65	N	2.38	Y	Clearwire Corporation
5.00	183.00	6	5/16" Coax	0.31	0.05	N	0.00	Y	Clearwire Corporation
5.00	171.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Y	Metro PCS Inc
5.00	167.00	2	0.39" Fiber Trunk	0.39	0.06	N	0.00	N	AT&T Mobility
5.00	167.00	4	0.78" 8 AWG 6	0.78	0.59	N	0.00	N	AT&T Mobility
5.00	167.00	12	1 1/4" Coax	1.55	0.63	N	0.00	N	AT&T Mobility
5.00	167.00	1	2" Conduit	2.38	3.65	N	0.00	N	AT&T Mobility
5.00	146.00	6	1 5/8" Coax	1.98	0.82	N	0.00	N	T-Mobile
5.00	146.00	6	1 5/8" Coax	1.98	0.82	N	1.98	Y	T-Mobile
5.00	146.00	6	1 5/8" Coax	1.98	0.82	N	0.00	Y	T-Mobile
5.00	127.00	9	1 5/8" Coax	1.98	0.82	N	0.00	N	Verizon Wireless
5.00	127.00	1	1 5/8" Fiber	1.63	1.61	N	0.00	N	Verizon Wireless
5.00	127.00	1	1 5/8" Fiber	1.63	1.61	N	0.00	N	Verizon Wireless
5.00	127.00	12	7/8" Coax	1.09	0.33	N	0.00	N	Verizon Wireless
0.00	110.78	4	#20 Dywidag Bars	2.50	0.00	N	1.82	Y	--

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Intermediate Connections Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	22.50	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	20.0	3.31	5/8" A36 U-Bolt	No
22.50	43.00	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	18.0	3.31	5/8" A36 U-Bolt	Yes
43.00	105.0	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	Yes

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Segment Properties (Max Len : 1. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)	Additional Reinforcing Area (in^2)	Additional Reinforcing Ix (in^4)	Additional Reinforcing Weight (lb)
0.00		0.5000	48.620	76.363	22,340.1	15.74	97.24	63.5	905.0	0.0	0.0	19.64	7,654	0.0
1.00		0.5000	48.445	76.086	22,097.4	15.67	96.89	63.5	898.4	0.0	259.4	19.64	7,605	66.8
2.00		0.5000	48.270	75.808	21,856.4	15.61	96.54	63.5	891.8	0.0	258.4	19.64	7,557	66.8
3.00		0.5000	48.095	75.531	21,617.2	15.55	96.19	63.5	885.3	0.0	257.5	19.64	7,508	66.8
4.00		0.5000	47.920	75.253	21,379.8	15.49	95.84	63.5	878.8	0.0	256.5	19.64	7,460	66.8
5.00		0.5000	47.745	74.975	21,144.0	15.43	95.49	63.5	872.2	0.0	255.6	19.64	7,412	66.8
6.00		0.5000	47.570	74.698	20,910.1	15.37	95.14	63.5	865.8	0.0	254.7	19.64	7,364	66.8
7.00		0.5000	47.395	74.420	20,677.8	15.30	94.79	63.5	859.3	0.0	253.7	19.64	7,317	66.8
8.00		0.5000	47.220	74.143	20,447.3	15.24	94.44	63.5	852.9	0.0	252.8	19.64	7,269	66.8
9.00		0.5000	47.046	73.865	20,218.5	15.18	94.09	63.5	846.5	0.0	251.8	19.64	7,222	66.8
10.00		0.5000	46.871	73.588	19,991.4	15.12	93.74	63.5	840.1	0.0	250.9	19.64	7,175	66.8
11.00		0.5000	46.696	73.310	19,766.0	15.06	93.39	63.5	833.7	0.0	249.9	19.64	7,128	66.8
12.00		0.5000	46.521	73.032	19,542.3	15.00	93.04	63.5	827.4	0.0	249.0	19.64	7,081	66.8
13.00		0.5000	46.346	72.755	19,320.4	14.93	92.69	63.5	821.1	0.0	248.0	19.64	7,034	66.8
14.00		0.5000	46.171	72.477	19,100.1	14.87	92.34	63.5	814.8	0.0	247.1	19.64	6,987	66.8
15.00		0.5000	45.996	72.200	18,881.4	14.81	91.99	63.5	808.5	0.0	246.2	19.64	6,941	66.8
16.00		0.5000	45.821	71.922	18,664.5	14.75	91.64	63.5	802.3	0.0	245.2	19.64	6,895	66.8
17.00		0.5000	45.646	71.644	18,449.2	14.69	91.29	63.5	796.1	0.0	244.3	19.64	6,849	66.8
18.00		0.5000	45.471	71.367	18,235.6	14.63	90.94	63.5	789.9	0.0	243.3	19.64	6,803	66.8
19.00		0.5000	45.296	71.089	18,023.7	14.56	90.59	63.5	783.7	0.0	242.4	19.64	6,757	66.8
20.00		0.5000	45.121	70.812	17,813.3	14.50	90.24	63.5	777.6	0.0	241.4	19.64	6,711	66.8
21.00		0.5000	44.947	70.534	17,604.7	14.44	89.89	63.5	771.5	0.0	240.5	19.64	6,666	66.8
22.00		0.5000	44.772	70.257	17,397.6	14.38	89.54	63.5	765.4	0.0	239.5	19.64	6,620	66.8
22.50	Reinf. Top Reinf	0.5000	44.684	70.118	17,294.7	14.35	89.37	63.5	762.3	0.0	119.4	19.64	6,598	33.4
23.00		0.5000	44.597	69.979	17,192.2	14.32	89.19	63.5	759.3	0.0	119.2	19.64	6,575	33.4
24.00		0.5000	44.422	69.701	16,988.5	14.25	88.84	63.5	753.3	0.0	237.7	19.64	6,530	66.8
25.00		0.5000	44.247	69.424	16,786.3	14.19	88.49	63.5	747.2	0.0	236.7	19.64	6,485	66.8
26.00		0.5000	44.072	69.146	16,585.8	14.13	88.14	63.5	741.2	0.0	235.8	19.64	6,441	66.8
27.00		0.5000	43.897	68.869	16,386.8	14.07	87.79	63.5	735.3	0.0	234.8	19.64	6,396	66.8
28.00		0.5000	43.722	68.591	16,189.5	14.01	87.44	63.5	729.3	0.0	233.9	19.64	6,352	66.8
28.50	Bot - Section 2	0.5000	43.635	68.452	16,091.4	13.98	87.27	63.5	726.3	0.0	116.6	19.64	6,329	33.4
29.00		0.5000	43.547	68.313	15,993.7	13.95	87.09	63.5	723.4	0.0	235.4	19.64	6,562	33.4
30.00		0.5000	43.372	68.036	15,799.5	13.88	86.74	63.5	717.5	0.0	469.4	19.64	6,517	66.8
31.00		0.5000	43.197	67.758	15,606.9	13.82	86.39	63.5	711.6	0.0	467.5	19.64	6,473	66.8
32.00		0.5000	43.022	67.481	15,415.9	13.76	86.04	63.5	705.8	0.0	465.6	19.64	6,428	66.8
33.00		0.5000	42.848	67.203	15,226.4	13.70	85.70	63.5	699.9	0.0	463.7	19.64	6,383	66.8
34.00		0.5000	42.673	66.926	15,038.5	13.64	85.35	63.5	694.1	0.0	461.8	19.64	6,339	66.8
35.00	Top - Section 1	0.5000	43.498	68.235	15,938.6	13.93	87.00	63.5	721.7	0.0	459.9	19.64	6,295	66.8
36.00		0.5000	43.323	67.957	15,744.9	13.87	86.65	63.5	715.8	0.0	231.7	19.64	6,251	66.8
37.00		0.5000	43.148	67.680	15,552.7	13.81	86.30	63.5	710.0	0.0	230.8	19.64	6,207	66.8
38.00		0.5000	42.973	67.402	15,362.1	13.74	85.95	63.5	704.1	0.0	229.8	19.64	6,163	66.8
39.00		0.5000	42.798	67.125	15,173.1	13.68	85.60	63.5	698.3	0.0	228.9	19.64	6,120	66.8
40.00		0.5000	42.623	66.847	14,985.6	13.62	85.25	63.5	692.5	0.0	227.9	19.64	6,076	66.8
41.00		0.5000	42.448	66.569	14,799.7	13.56	84.90	63.5	686.7	0.0	227.0	19.64	6,033	66.8
42.00		0.5000	42.273	66.292	14,615.4	13.50	84.55	63.5	681.0	0.0	226.0	19.64	5,990	66.8
43.00	Reinf. Top Reinf	0.5000	42.098	66.014	14,432.5	13.44	84.20	63.5	675.2	0.0	225.1	19.64	5,947	66.8
44.00		0.5000	41.923	65.737	14,251.2	13.37	83.85	63.5	669.5	0.0	224.2	19.64	5,904	66.8
45.00		0.5000	41.749	65.459	14,071.5	13.31	83.50	63.5	663.9	0.0	223.2	19.64	5,861	66.8
46.00		0.5000	41.574	65.181	13,893.2	13.25	83.15	63.5	658.2	0.0	222.3	19.64	5,819	66.8
47.00		0.5000	41.399	64.904	13,716.5	13.19	82.80	63.5	652.6	0.0	221.3	19.64	5,776	66.8
48.00		0.5000	41.224	64.626	13,541.2	13.13	82.45	63.5	647.0	0.0	220.4	19.64	5,734	66.8
49.00		0.5000	41.049	64.349	13,367.5	13.07	82.10	63.5	641.4	0.0	219.4	19.64	5,692	66.8
50.00		0.5000	40.874	64.071	13,195.2	13.00	81.75	63.5	635.8	0.0	218.5	19.64	5,650	66.8
51.00		0.5000	40.699	63.794	13,024.5	12.94	81.40	63.5	630.3	0.0	217.5	19.64	5,609	66.8
52.00		0.5000	40.524	63.516	12,855.2	12.88	81.05	63.5	624.8	0.0	216.6	19.64	5,567	66.8
53.00		0.5000	40.349	63.238	12,687.4	12.82	80.70	63.5	619.3	0.0	215.7	19.64	5,526	66.8
54.00		0.5000	40.174	62.961	12,521.0	12.76	80.35	63.5	613.9	0.0	214.7	19.64	5,484	66.8
55.00		0.5000	39.999	62.683	12,356.2	12.70	80.00	63.5	608.4	0.0	213.8	19.64	5,443	66.8

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56.00		0.5000	39.824	62.406	12,192.7	12.63	79.65	63.5	603.0	0.0	212.8	19.64	5,402	66.8
57.00		0.5000	39.650	62.128	12,030.8	12.57	79.30	63.5	597.6	0.0	211.9	19.64	5,361	66.8
58.00	Bot - Section 3	0.5000	39.475	61.850	11,870.2	12.51	78.95	63.5	592.3	0.0	210.9	19.64	5,321	66.8
59.00		0.5000	39.300	61.573	11,711.1	12.45	78.60	63.5	586.9	0.0	371.0	19.64	5,455	66.8
60.00		0.5000	39.125	61.295	11,553.4	12.39	78.25	63.5	581.6	0.0	369.4	19.64	5,414	66.8
61.00		0.5000	38.950	61.018	11,397.2	12.33	77.90	63.5	576.3	0.0	367.7	19.64	5,373	66.8
62.00		0.5000	38.775	60.740	11,242.4	12.26	77.55	63.5	571.1	0.0	366.1	19.64	5,332	66.8
63.00		0.5000	38.600	60.463	11,088.9	12.20	77.20	63.5	565.8	0.0	364.4	19.64	5,292	66.8
63.50	Top - Section 2	0.3750	39.263	46.284	8,843.2	17.05	104.70	75.8	443.6	0.0	181.6	19.64	5,272	33.4
64.00		0.3750	39.175	46.180	8,783.6	17.01	104.47	75.9	441.6	0.0	78.7	19.64	5,251	33.4
65.00		0.3750	39.000	45.972	8,665.4	16.93	104.00	75.9	437.6	0.0	156.8	19.64	5,211	66.8
66.00		0.3750	38.825	45.764	8,548.2	16.85	103.53	76.0	433.7	0.0	156.1	19.64	5,171	66.8
67.00		0.3750	38.650	45.556	8,432.0	16.76	103.07	76.1	429.7	0.0	155.4	19.64	5,131	66.8
68.00		0.3750	38.475	45.347	8,317.0	16.68	102.60	76.2	425.8	0.0	154.7	19.64	5,092	66.8
69.00		0.3750	38.300	45.139	8,202.9	16.60	102.13	76.2	421.8	0.0	154.0	19.64	5,052	66.8
70.00		0.3750	38.126	44.931	8,090.0	16.52	101.67	76.2	417.9	0.0	153.2	19.64	5,012	66.8
71.00		0.3750	37.951	44.723	7,978.0	16.43	101.20	76.2	414.1	0.0	152.5	19.64	4,973	66.8
72.00		0.3750	37.776	44.515	7,867.1	16.35	100.74	76.2	410.2	0.0	151.8	19.64	4,934	66.8
73.00		0.3750	37.601	44.306	7,757.3	16.27	100.27	76.2	406.3	0.0	151.1	19.64	4,895	66.8
74.00		0.3750	37.426	44.098	7,648.4	16.19	99.80	76.2	402.5	0.0	150.4	19.64	4,856	66.8
75.00		0.3750	37.251	43.890	7,540.6	16.10	99.34	76.2	398.7	0.0	149.7	19.64	4,817	66.8
76.00		0.3750	37.076	43.682	7,433.8	16.02	98.87	76.2	394.9	0.0	149.0	19.64	4,779	66.8
77.00		0.3750	36.901	43.474	7,328.0	15.94	98.40	76.2	391.1	0.0	148.3	19.64	4,741	66.8
78.00		0.3750	36.726	43.266	7,223.3	15.86	97.94	76.2	387.4	0.0	147.6	19.64	4,702	66.8
79.00		0.3750	36.551	43.057	7,119.5	15.78	97.47	76.2	383.6	0.0	146.9	19.64	4,664	66.8
80.00		0.3750	36.376	42.849	7,016.7	15.69	97.00	76.2	379.9	0.0	146.2	19.64	4,626	66.8
81.00		0.3750	36.201	42.641	6,914.9	15.61	96.54	76.2	376.2	0.0	145.5	19.64	4,589	66.8
82.00		0.3750	36.027	42.433	6,814.1	15.53	96.07	76.2	372.5	0.0	144.7	19.64	4,551	66.8
83.00		0.3750	35.852	42.225	6,714.3	15.45	95.60	76.2	368.9	0.0	144.0	19.64	4,514	66.8
84.00		0.3750	35.677	42.016	6,615.5	15.36	95.14	76.2	365.2	0.0	143.3	19.64	4,476	66.8
85.00		0.3750	35.502	41.808	6,517.7	15.28	94.67	76.2	361.6	0.0	142.6	19.64	4,439	66.8
86.00		0.3750	35.327	41.600	6,420.8	15.20	94.21	76.2	358.0	0.0	141.9	19.64	4,402	66.8
87.00		0.3750	35.152	41.392	6,324.9	15.12	93.74	76.2	354.4	0.0	141.2	19.64	4,365	66.8
88.00	Bot - Section 4	0.3750	34.977	41.184	6,229.9	15.04	93.27	76.2	350.8	0.0	140.5	19.64	4,329	66.8
89.00		0.3750	34.802	40.975	6,135.9	14.95	92.81	76.2	347.3	0.0	258.6	19.64	4,423	66.8
90.00		0.3750	34.627	40.767	6,042.9	14.87	92.34	76.2	343.7	0.0	257.3	19.64	4,386	66.8
91.00		0.3750	34.452	40.559	5,950.7	14.79	91.87	76.2	340.2	0.0	256.0	19.64	4,350	66.8
92.00		0.3750	34.277	40.351	5,859.6	14.71	91.41	76.2	336.7	0.0	254.7	19.64	4,313	66.8
93.00	Top - Section 3	0.3125	34.727	34.134	5,107.8	18.18	111.13	74.6	289.7	0.0	253.4	19.64	4,277	66.8
94.00		0.3125	34.553	33.961	5,030.3	18.09	110.57	74.7	286.7	0.0	115.9	19.64	4,240	66.8
95.00		0.3125	34.378	33.787	4,953.6	17.99	110.01	74.8	283.8	0.0	115.3	19.64	4,204	66.8
96.00		0.3125	34.203	33.614	4,877.7	17.89	109.45	74.9	280.9	0.0	114.7	19.64	4,168	66.8
97.00		0.3125	34.028	33.440	4,802.6	17.79	108.89	75.0	278.0	0.0	114.1	19.64	4,132	66.8
98.00		0.3125	33.853	33.267	4,728.2	17.69	108.33	75.1	275.1	0.0	113.5	19.64	4,097	66.8
99.00		0.3125	33.678	33.093	4,654.6	17.59	107.77	75.3	272.2	0.0	112.9	19.64	4,061	66.8
100.0		0.3125	33.503	32.920	4,581.8	17.49	107.21	75.4	269.4	0.0	112.3	19.64	4,026	66.8
101.0		0.3125	33.328	32.746	4,509.8	17.39	106.65	75.5	266.5	0.0	111.7	19.64	3,991	66.8
102.0		0.3125	33.153	32.573	4,438.5	17.30	106.09	75.6	263.7	0.0	111.1	19.64	3,956	66.8
103.0		0.3125	32.978	32.399	4,367.9	17.20	105.53	75.7	260.9	0.0	110.5	19.64	3,921	66.8
104.0		0.3125	32.803	32.226	4,298.1	17.10	104.97	75.8	258.1	0.0	110.0	19.64	3,886	66.8
105.0	Reinf. Top	0.3125	32.628	32.052	4,229.1	17.00	104.41	75.9	255.3	0.0	109.4	19.64	3,851	66.8
106.0		0.3125	32.454	31.879	4,160.8	16.90	103.85	76.0	252.5	0.0	108.8			
107.0		0.3125	32.279	31.705	4,093.2	16.80	103.29	76.1	249.8	0.0	108.2			
108.0		0.3125	32.104	31.532	4,026.4	16.70	102.73	76.2	247.0	0.0	107.6			
109.0		0.3125	31.929	31.358	3,960.3	16.61	102.17	76.2	244.3	0.0	107.0			
110.0		0.3125	31.754	31.185	3,894.9	16.51	101.61	76.2	241.6	0.0	106.4			
111.0		0.3125	31.579	31.011	3,830.3	16.41	101.05	76.2	238.9	0.0	105.8			
112.0		0.3125	31.404	30.838	3,766.4	16.31	100.49	76.2	236.2	0.0	105.2			
113.0		0.3125	31.229	30.664	3,703.1	16.21	99.93	76.2	233.6	0.0	104.6			
114.0		0.3125	31.054	30.491	3,640.6	16.11	99.37	76.2	230.9	0.0	104.0			
115.0		0.3125	30.879	30.317	3,578.9	16.01	98.81	76.2	228.3	0.0	103.5			
116.0		0.3125	30.704	30.144	3,517.8	15.91	98.25	76.2	225.7	0.0	102.9			
116.5	Bot - Section 5	0.3125	30.617	30.057	3,487.5	15.86	97.97	76.2	224.4	0.0	51.2			
117.0		0.3125	30.529	29.970	3,457.4	15.82	97.69	76.2	223.1	0.0	92.7			

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118.0		0.3125	30.355	29.797	3,397.7	15.72	97.13	76.2	220.5	0.0	184.6
119.0		0.3125	30.180	29.623	3,338.7	15.62	96.57	76.2	217.9	0.0	183.5
120.0		0.3125	30.005	29.450	3,280.4	15.52	96.02	76.2	215.3	0.0	182.4
121.0	Top - Section 4	0.2500	30.330	23.867	2,728.4	19.98	121.32	72.8	177.2	0.0	181.4
122.0		0.2500	30.155	23.729	2,681.1	19.86	120.62	72.9	175.1	0.0	81.0
123.0		0.2500	29.980	23.590	2,634.3	19.73	119.92	73.0	173.1	0.0	80.5
124.0		0.2500	29.805	23.451	2,588.1	19.61	119.22	73.1	171.0	0.0	80.0
125.0		0.2500	29.630	23.312	2,542.4	19.49	118.52	73.3	169.0	0.0	79.6
126.0		0.2500	29.455	23.173	2,497.3	19.36	117.82	73.4	167.0	0.0	79.1
127.0		0.2500	29.280	23.035	2,452.7	19.24	117.12	73.5	165.0	0.0	78.6
128.0		0.2500	29.105	22.896	2,408.6	19.12	116.42	73.7	163.0	0.0	78.1
129.0		0.2500	28.930	22.757	2,365.1	18.99	115.72	73.8	161.0	0.0	77.7
130.0		0.2500	28.756	22.618	2,322.1	18.87	115.02	73.9	159.0	0.0	77.2
131.0		0.2500	28.581	22.480	2,279.6	18.75	114.32	74.0	157.1	0.0	76.7
132.0		0.2500	28.406	22.341	2,237.6	18.62	113.62	74.2	155.2	0.0	76.3
133.0		0.2500	28.231	22.202	2,196.2	18.50	112.92	74.3	153.2	0.0	75.8
134.0		0.2500	28.056	22.063	2,155.2	18.38	112.22	74.4	151.3	0.0	75.3
135.0		0.2500	27.881	21.924	2,114.8	18.25	111.52	74.6	149.4	0.0	74.8
136.0		0.2500	27.706	21.786	2,074.9	18.13	110.82	74.7	147.5	0.0	74.4
137.0		0.2500	27.531	21.647	2,035.5	18.01	110.12	74.8	145.6	0.0	73.9
138.0		0.2500	27.356	21.508	1,996.6	17.88	109.42	74.9	143.8	0.0	73.4
139.0		0.2500	27.181	21.369	1,958.2	17.76	108.73	75.1	141.9	0.0	73.0
140.0		0.2500	27.006	21.230	1,920.3	17.64	108.03	75.2	140.0	0.0	72.5
141.0		0.2500	26.831	21.092	1,882.9	17.51	107.33	75.3	138.2	0.0	72.0
142.0		0.2500	26.657	20.953	1,845.9	17.39	106.63	75.5	136.4	0.0	71.5
143.0		0.2500	26.482	20.814	1,809.5	17.27	105.93	75.6	134.6	0.0	71.1
144.0		0.2500	26.307	20.675	1,773.5	17.14	105.23	75.7	132.8	0.0	70.6
145.0		0.2500	26.132	20.536	1,738.1	17.02	104.53	75.8	131.0	0.0	70.1
146.0		0.2500	25.957	20.398	1,703.1	16.90	103.83	76.0	129.2	0.0	69.6
147.0		0.2500	25.782	20.259	1,668.5	16.77	103.13	76.1	127.5	0.0	69.2
148.0		0.2500	25.607	20.120	1,634.5	16.65	102.43	76.2	125.7	0.0	68.7
149.0	Bot - Section 6	0.2500	25.432	19.981	1,600.9	16.53	101.73	76.2	124.0	0.0	68.2
150.0		0.2500	25.257	19.842	1,567.8	16.40	101.03	76.2	122.3	0.0	119.5
151.0		0.2500	25.082	19.704	1,535.1	16.28	100.33	76.2	120.5	0.0	118.6
152.0		0.2500	24.907	19.565	1,502.9	16.16	99.63	76.2	118.8	0.0	117.8
152.5	Top - Section 5	0.1875	25.195	14.882	1,175.8	22.28	134.37	70.4	91.9	0.0	58.6
153.0		0.1875	25.107	14.830	1,163.6	22.20	133.91	70.4	91.3	0.0	25.3
154.0		0.1875	24.933	14.726	1,139.2	22.04	132.97	70.6	90.0	0.0	50.3
155.0		0.1875	24.758	14.622	1,115.2	21.87	132.04	70.8	88.7	0.0	49.9
156.0		0.1875	24.583	14.518	1,091.6	21.71	131.11	71.0	87.5	0.0	49.6
157.0		0.1875	24.408	14.414	1,068.3	21.54	130.17	71.1	86.2	0.0	49.2
158.0		0.1875	24.233	14.309	1,045.3	21.38	129.24	71.3	85.0	0.0	48.9
159.0		0.1875	24.058	14.205	1,022.6	21.21	128.31	71.5	83.7	0.0	48.5
160.0		0.1875	23.883	14.101	1,000.3	21.05	127.38	71.6	82.5	0.0	48.2
161.0		0.1875	23.708	13.997	978.3	20.88	126.44	71.8	81.3	0.0	47.8
162.0		0.1875	23.533	13.893	956.7	20.72	125.51	72.0	80.1	0.0	47.5
163.0		0.1875	23.358	13.789	935.3	20.56	124.58	72.2	78.9	0.0	47.1
164.0		0.1875	23.183	13.685	914.3	20.39	123.64	72.3	77.7	0.0	46.7
165.0		0.1875	23.008	13.581	893.6	20.23	122.71	72.5	76.5	0.0	46.4
166.0		0.1875	22.833	13.477	873.2	20.06	121.78	72.7	75.3	0.0	46.0
167.0		0.1875	22.659	13.373	853.1	19.90	120.85	72.8	74.2	0.0	45.7
168.0		0.1875	22.484	13.269	833.4	19.73	119.91	73.0	73.0	0.0	45.3
169.0		0.1875	22.309	13.164	813.9	19.57	118.98	73.2	71.9	0.0	45.0
170.0		0.1875	22.134	13.060	794.8	19.40	118.05	73.4	70.7	0.0	44.6
171.0		0.1875	21.959	12.956	775.9	19.24	117.11	73.5	69.6	0.0	44.3
172.0		0.1875	21.784	12.852	757.3	19.08	116.18	73.7	68.5	0.0	43.9
173.0		0.1875	21.609	12.748	739.1	18.91	115.25	73.9	67.4	0.0	43.6
174.0		0.1875	21.434	12.644	721.1	18.75	114.32	74.0	66.3	0.0	43.2
175.0		0.1875	21.259	12.540	703.5	18.58	113.38	74.2	65.2	0.0	42.8
176.0		0.1875	21.084	12.436	686.1	18.42	112.45	74.4	64.1	0.0	42.5
177.0		0.1875	20.909	12.332	669.0	18.25	111.52	74.6	63.0	0.0	42.1
178.0		0.1875	20.734	12.228	652.2	18.09	110.58	74.7	62.0	0.0	41.8
179.0		0.1875	20.560	12.123	635.7	17.92	109.65	74.9	60.9	0.0	41.4
180.0		0.1875	20.385	12.019	619.5	17.76	108.72	75.1	59.9	0.0	41.1

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181.0	0.1875	20.210	11.915	603.5	17.59	107.79	75.2	58.8	0.0	40.7	
182.0	0.1875	20.035	11.811	587.8	17.43	106.85	75.4	57.8	0.0	40.4	
183.0	0.1875	19.860	11.707	572.4	17.27	105.92	75.6	56.8	0.0	40.0	
										29,356.2	7,014.0

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		37.6	0.0					0.0	0.0	37.6	0.0	0.0	0.0
1.00		75.1	311.3					0.0	80.2	75.1	391.4	0.0	0.0
2.00		74.8	310.1					0.0	80.2	74.8	390.3	0.0	0.0
3.00		74.6	309.0					0.0	80.2	74.6	389.1	0.0	0.0
4.00		74.3	307.8					0.0	80.2	74.3	388.0	0.0	0.0
5.00		81.6	306.7					0.0	80.2	81.6	386.9	0.0	0.0
6.00		89.0	305.6					0.0	159.1	89.0	464.7	0.0	0.0
7.00	Appertunance(s)	88.8	304.4	72.2	0.0	0.0	90.7	0.0	159.1	161.0	554.3	0.0	0.0
8.00		88.6	303.3					0.0	159.1	88.6	462.5	0.0	0.0
9.00		88.4	302.2					0.0	159.1	88.4	461.3	0.0	0.0
10.00		88.3	301.0					0.0	159.1	88.3	460.2	0.0	0.0
11.00		88.1	299.9					0.0	159.1	88.1	459.1	0.0	0.0
12.00		87.9	298.8					0.0	159.1	87.9	457.9	0.0	0.0
13.00		87.7	297.6					0.0	159.1	87.7	456.8	0.0	0.0
14.00		87.5	296.5					0.0	159.1	87.5	455.7	0.0	0.0
15.00		87.3	295.4					0.0	159.1	87.3	454.5	0.0	0.0
16.00		87.1	294.2					0.0	159.1	87.1	453.4	0.0	0.0
17.00		86.9	293.1					0.0	159.1	86.9	452.3	0.0	0.0
18.00		86.7	292.0					0.0	159.1	86.7	451.1	0.0	0.0
19.00		86.5	290.8					0.0	159.1	86.5	450.0	0.0	0.0
20.00		86.4	289.7					0.0	159.1	86.4	448.9	0.0	0.0
21.00		86.2	288.6					0.0	159.1	86.2	447.7	0.0	0.0
22.00		64.5	287.4					0.0	159.1	64.5	446.6	0.0	0.0
22.50	Reinf. Top Reinf	42.9	143.3					0.0	79.6	42.9	222.9	0.0	0.0
23.00		64.3	143.0					0.0	79.6	64.3	222.6	0.0	0.0
24.00		85.6	285.2					0.0	159.1	85.6	444.3	0.0	0.0
25.00		85.4	284.0					0.0	159.1	85.4	443.2	0.0	0.0
26.00		85.2	282.9					0.0	159.1	85.2	442.1	0.0	0.0
27.00		85.0	281.8					0.0	159.1	85.0	440.9	0.0	0.0
28.00		63.7	280.6					0.0	159.1	63.7	439.8	0.0	0.0
28.50	Bot - Section 2	42.9	139.9					0.0	79.6	42.9	219.5	0.0	0.0
29.00		64.9	282.5					0.0	79.6	64.9	362.0	0.0	0.0
30.00		86.6	563.2					0.0	159.1	86.6	722.4	0.0	0.0
31.00		87.1	561.0					0.0	159.1	87.1	720.1	0.0	0.0
32.00		87.7	558.7					0.0	159.1	87.7	717.8	0.0	0.0
33.00		88.3	556.4					0.0	159.1	88.3	715.6	0.0	0.0
34.00		88.9	554.2					0.0	159.1	88.9	713.3	0.0	0.0
35.00	Top - Section 1	88.9	551.9					0.0	159.1	88.9	711.0	0.0	0.0
36.00		89.0	278.1					0.0	159.1	89.0	437.2	0.0	0.0
37.00		89.5	276.9					0.0	159.1	89.5	436.1	0.0	0.0
38.00		90.0	275.8					0.0	159.1	90.0	434.9	0.0	0.0
39.00		90.4	274.7					0.0	159.1	90.4	433.8	0.0	0.0
40.00		90.9	273.5					0.0	159.1	90.9	432.7	0.0	0.0
41.00		91.3	272.4					0.0	159.1	91.3	431.5	0.0	0.0
42.00		91.7	271.3					0.0	159.1	91.7	430.4	0.0	0.0
43.00	Reinf. Top Reinf	92.2	270.1					0.0	159.1	92.2	429.3	0.0	0.0
44.00		92.5	269.0					0.0	159.1	92.5	428.1	0.0	0.0
45.00		92.9	267.9					0.0	159.1	92.9	427.0	0.0	0.0

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

46.00		93.3	266.7	0.0	159.1	93.3	425.9	0.0	0.0
47.00		93.7	265.6	0.0	159.1	93.7	424.7	0.0	0.0
48.00		94.0	264.5	0.0	159.1	94.0	423.6	0.0	0.0
49.00		94.3	263.3	0.0	159.1	94.3	422.5	0.0	0.0
50.00		94.7	262.2	0.0	159.1	94.7	421.3	0.0	0.0
51.00		95.0	261.1	0.0	159.1	95.0	420.2	0.0	0.0
52.00		95.3	259.9	0.0	159.1	95.3	419.1	0.0	0.0
53.00		95.6	258.8	0.0	159.1	95.6	417.9	0.0	0.0
54.00		116.0	257.7	0.0	159.1	116.0	416.8	0.0	0.0
55.00		136.3	256.5	27.3	159.1	163.6	415.7	0.0	0.0
56.00		136.4	255.4	27.4	159.1	163.8	414.5	0.0	0.0
57.00		136.5	254.3	27.6	159.1	164.0	413.4	0.0	0.0
58.00	Bot - Section 3	137.8	253.1	27.7	159.1	165.6	412.3	0.0	0.0
59.00		139.2	445.2	27.9	159.1	167.1	604.4	0.0	0.0
60.00		139.3	443.3	28.0	159.1	167.3	602.4	0.0	0.0
61.00		139.3	441.3	28.1	159.1	167.4	600.4	0.0	0.0
62.00		139.3	439.3	28.3	159.1	167.6	598.4	0.0	0.0
63.00		104.5	437.3	28.4	159.1	132.9	596.4	0.0	0.0
63.50	Top - Section 2	69.7	217.9	14.2	79.6	83.9	297.5	0.0	0.0
64.00		104.5	94.4	14.3	79.6	118.8	174.0	0.0	0.0
65.00		139.4	188.1	28.7	159.1	168.0	347.3	0.0	0.0
66.00		139.3	187.3	28.8	159.1	168.1	346.4	0.0	0.0
67.00		139.3	186.4	28.9	159.1	168.2	345.6	0.0	0.0
68.00		139.3	185.6	29.0	159.1	168.3	344.7	0.0	0.0
69.00		139.2	184.7	29.1	159.1	168.4	343.9	0.0	0.0
70.00		139.1	183.9	29.3	159.1	168.4	343.0	0.0	0.0
71.00		139.1	183.0	29.4	159.1	168.5	342.2	0.0	0.0
72.00		139.0	182.2	29.5	159.1	168.5	341.3	0.0	0.0
73.00		138.9	181.3	29.6	159.1	168.5	340.5	0.0	0.0
74.00		138.8	180.5	29.7	159.1	168.5	339.6	0.0	0.0
75.00		138.7	179.6	29.9	159.1	168.5	338.8	0.0	0.0
76.00		138.5	178.8	30.0	159.1	168.5	337.9	0.0	0.0
77.00		138.4	177.9	30.1	159.1	168.5	337.1	0.0	0.0
78.00		138.3	177.1	30.2	159.1	168.4	336.2	0.0	0.0
79.00		138.1	176.2	30.3	159.1	168.4	335.4	0.0	0.0
80.00		137.9	175.4	30.4	159.1	168.3	334.5	0.0	0.0
81.00		137.8	174.5	30.5	159.1	168.3	333.7	0.0	0.0
82.00		137.6	173.7	30.6	159.1	168.2	332.8	0.0	0.0
83.00		137.4	172.8	30.7	159.1	168.1	332.0	0.0	0.0
84.00		137.2	172.0	30.8	159.1	168.0	331.1	0.0	0.0
85.00		137.0	171.1	31.0	159.1	167.9	330.3	0.0	0.0
86.00		136.7	170.3	31.1	159.1	167.8	329.4	0.0	0.0
87.00		136.5	169.4	31.2	159.1	167.7	328.6	0.0	0.0
88.00	Bot - Section 4	137.5	168.6	31.3	159.1	168.8	327.7	0.0	0.0
89.00		138.5	310.3	31.4	159.1	169.8	469.5	0.0	0.0
90.00		138.2	308.8	31.5	159.1	169.7	467.9	0.0	0.0
91.00		138.0	307.2	31.6	159.1	169.6	466.3	0.0	0.0
92.00		137.7	305.6	31.7	159.1	169.4	464.8	0.0	0.0
93.00	Top - Section 3	137.5	304.1	31.8	159.1	169.2	463.2	0.0	0.0
94.00		137.2	139.0	31.9	159.1	169.0	298.2	0.0	0.0
95.00		136.9	138.3	32.0	159.1	168.9	297.5	0.0	0.0
96.00		136.6	137.6	32.1	159.1	168.7	296.8	0.0	0.0
97.00		136.3	136.9	32.1	159.1	168.5	296.0	0.0	0.0
98.00		136.0	136.2	32.2	159.1	168.3	295.3	0.0	0.0
99.00		135.7	135.5	32.3	159.1	168.0	294.6	0.0	0.0
100.00		135.4	134.8	32.4	159.1	167.8	293.9	0.0	0.0
101.00		135.1	134.1	32.5	159.1	167.6	293.2	0.0	0.0

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

102.00		134.7	133.4					32.6	159.1	167.4	292.5	0.0	0.0
103.00		134.4	132.7					32.7	159.1	167.1	291.8	0.0	0.0
104.00		134.1	131.9					32.8	159.1	166.9	291.1	0.0	0.0
105.00	Reinf. Top	133.7	131.2					32.9	159.1	166.6	290.4	0.0	0.0
106.00		133.4	130.5					33.0	79.0	166.3	209.5	0.0	0.0
107.00		133.0	129.8					33.1	79.0	166.1	208.8	0.0	0.0
108.00		132.6	129.1					33.2	79.0	165.8	208.1	0.0	0.0
109.00		132.3	128.4					33.2	79.0	165.5	207.4	0.0	0.0
110.00		131.9	127.7					33.3	79.0	165.2	206.7	0.0	0.0
111.00		111.9	127.0					31.8	79.0	143.7	206.0	0.0	0.0
112.00		92.1	126.3					0.0	79.0	92.1	205.3	0.0	0.0
113.00		111.3	125.6					0.0	79.0	111.3	204.6	0.0	0.0
114.00		130.3	124.9					26.2	79.0	156.5	203.8	0.0	0.0
115.00		129.9	124.2					26.2	79.0	156.1	203.1	0.0	0.0
116.00		97.2	123.4					26.3	79.0	123.5	202.4	0.0	0.0
116.50	Bot - Section 5	65.2	61.5					13.2	39.5	78.3	100.9	0.0	0.0
117.00		98.3	111.2					13.2	39.5	111.5	150.7	0.0	0.0
118.00		130.7	221.5					26.4	79.0	157.2	300.5	0.0	0.0
119.00		130.3	220.2					26.5	79.0	156.8	299.2	0.0	0.0
120.00		129.9	218.9					26.6	79.0	156.4	297.9	0.0	0.0
121.00	Top - Section 4	129.4	217.6					26.6	79.0	156.0	296.6	0.0	0.0
122.00		129.0	97.2					26.7	79.0	155.7	176.2	0.0	0.0
123.00		128.5	96.6					26.7	79.0	155.3	175.6	0.0	0.0
124.00		128.1	96.0					26.8	79.0	154.9	175.0	0.0	0.0
125.00		127.6	95.5					26.9	79.0	154.5	174.5	0.0	0.0
126.00		127.2	94.9					26.9	79.0	154.1	173.9	0.0	0.0
127.00	Appertunance(s)	126.7	94.3	4,071.7	0.0	0.0	3,435.1	27.0	79.0	4,225.4	3,608.4	0.0	0.0
128.00		126.2	93.8					27.0	61.5	153.3	155.3	0.0	0.0
129.00		125.7	93.2					27.1	61.5	152.8	154.7	0.0	0.0
130.00		125.3	92.6					27.2	61.5	152.4	154.2	0.0	0.0
131.00		124.8	92.1					27.2	61.5	152.0	153.6	0.0	0.0
132.00		124.3	91.5					27.3	61.5	151.6	153.0	0.0	0.0
133.00		123.8	90.9					27.3	61.5	151.1	152.5	0.0	0.0
134.00		123.3	90.4					27.4	61.5	150.7	151.9	0.0	0.0
135.00		122.8	89.8					27.5	61.5	150.2	151.3	0.0	0.0
136.00		122.3	89.2					27.5	61.5	149.8	150.8	0.0	0.0
137.00		121.7	88.7					27.6	61.5	149.3	150.2	0.0	0.0
138.00		121.2	88.1					27.6	61.5	148.8	149.6	0.0	0.0
139.00		120.7	87.5					27.7	61.5	148.4	149.1	0.0	0.0
140.00		120.2	87.0					27.8	61.5	147.9	148.5	0.0	0.0
141.00		119.6	86.4					27.8	61.5	147.4	147.9	0.0	0.0
142.00		119.1	85.8					27.9	61.5	146.9	147.4	0.0	0.0
143.00		118.5	85.3					27.9	61.5	146.5	146.8	0.0	0.0
144.00		118.0	84.7					28.0	61.5	146.0	146.2	0.0	0.0
145.00	Appertunance(s)	117.4	84.1	4.8	0.0	0.0	11.9	28.0	61.5	150.2	157.5	0.0	0.0
146.00	Appertunance(s)	96.4	83.6	1,836.7	0.0	0.0	1,666.4	28.1	61.5	1,961.2	1,811.5	0.0	0.0
147.00		75.6	83.0					0.0	43.8	75.6	126.8	0.0	0.0
148.00		75.4	82.4					0.0	43.8	75.4	126.2	0.0	0.0
149.00	Bot - Section 6	75.8	81.9					0.0	43.8	75.8	125.7	0.0	0.0
150.00		76.2	143.4					0.0	43.8	76.2	187.2	0.0	0.0
151.00		76.1	142.4					0.0	43.8	76.1	186.2	0.0	0.0
152.00		57.0	141.4					0.0	43.8	57.0	185.2	0.0	0.0
152.50	Top - Section 5	37.8	70.3					0.0	21.9	37.8	92.2	0.0	0.0
153.00		56.4	30.3					0.0	21.9	56.4	52.2	0.0	0.0
154.00		75.1	60.3					0.0	43.8	75.1	104.1	0.0	0.0
155.00		75.0	59.9					0.0	43.8	75.0	103.7	0.0	0.0
156.00		74.8	59.5					0.0	43.8	74.8	103.3	0.0	0.0

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

157.00		74.6	59.1					0.0	43.8	74.6	102.9	0.0	0.0
158.00		74.5	58.6					0.0	43.8	74.5	102.4	0.0	0.0
159.00		74.3	58.2					0.0	43.8	74.3	102.0	0.0	0.0
160.00		74.1	57.8					0.0	43.8	74.1	101.6	0.0	0.0
161.00		73.9	57.4					0.0	43.8	73.9	101.2	0.0	0.0
162.00		73.8	56.9					0.0	43.8	73.8	100.7	0.0	0.0
163.00		73.6	56.5					0.0	43.8	73.6	100.3	0.0	0.0
164.00		73.4	56.1					0.0	43.8	73.4	99.9	0.0	0.0
165.00		73.2	55.7					0.0	43.8	73.2	99.5	0.0	0.0
166.00		73.0	55.2					0.0	43.8	73.0	99.0	0.0	0.0
167.00	Appertunance(s)	72.8	54.8	4,076.7	0.0	0.0	3,992.9	0.0	43.8	4,149.5	4,091.5	0.0	0.0
168.00		72.7	54.4					0.0	27.4	72.7	81.8	0.0	0.0
169.00		72.5	54.0					0.0	27.4	72.5	81.3	0.0	0.0
170.00		72.3	53.5					0.0	27.4	72.3	80.9	0.0	0.0
171.00	Appertunance(s)	64.6	53.1	489.3	0.0	0.0	95.0	0.0	27.4	553.9	175.5	0.0	0.0
172.00		56.9	52.7					0.0	21.5	56.9	74.2	0.0	0.0
173.00		56.7	52.3					0.0	21.5	56.7	73.7	0.0	0.0
174.00		56.5	51.8					0.0	21.5	56.5	73.3	0.0	0.0
175.00		56.3	51.4					0.0	21.5	56.3	72.9	0.0	0.0
176.00		56.1	51.0					0.0	21.5	56.1	72.5	0.0	0.0
177.00		55.8	50.6					0.0	21.5	55.8	72.0	0.0	0.0
178.00		55.6	50.1					0.0	21.5	55.6	71.6	0.0	0.0
179.00		55.4	49.7					0.0	21.5	55.4	71.2	0.0	0.0
180.00		55.2	49.3					0.0	21.5	55.2	70.8	0.0	0.0
181.00		54.9	48.9					0.0	21.5	54.9	70.3	0.0	0.0
182.00		54.7	48.4					0.0	21.5	54.7	69.9	0.0	0.0
183.00	Appertunance(s)	27.3	48.0	3,713.2	0.0	3,415.3	2,877.8	0.0	21.5	3,740.5	2,947.3	0.0	0.0
								Totals:		36,302.9	67,905.7	0.00	0.00

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-67.89	-36.29	0.00	-4,484.68	0.00	4,484.68	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.788
1.00	-67.47	-36.27	0.00	-4,448.39	0.00	4,448.39	4,348.30	2,174.15	8,544.66	4,278.68	0.00	-0.04	0.786
2.00	-67.06	-36.24	0.00	-4,412.13	0.00	4,412.13	4,332.44	2,166.22	8,482.10	4,247.36	0.02	-0.08	0.784
3.00	-66.64	-36.21	0.00	-4,375.89	0.00	4,375.89	4,316.57	2,158.29	8,419.78	4,216.15	0.04	-0.13	0.783
4.00	-66.23	-36.19	0.00	-4,339.67	0.00	4,339.67	4,300.71	2,150.36	8,357.68	4,185.05	0.07	-0.17	0.781
5.00	-65.81	-36.15	0.00	-4,303.48	0.00	4,303.48	4,284.85	2,142.42	8,295.82	4,154.08	0.11	-0.21	0.780
6.00	-65.32	-36.11	0.00	-4,267.33	0.00	4,267.33	4,268.98	2,134.49	8,234.19	4,123.21	0.16	-0.26	0.778
7.00	-64.74	-36.00	0.00	-4,231.22	0.00	4,231.22	4,253.12	2,126.56	8,172.78	4,092.46	0.22	-0.30	0.776
8.00	-64.25	-35.95	0.00	-4,195.22	0.00	4,195.22	4,237.26	2,118.63	8,111.60	4,061.83	0.29	-0.34	0.774
9.00	-63.76	-35.91	0.00	-4,159.27	0.00	4,159.27	4,221.39	2,110.70	8,050.66	4,031.31	0.36	-0.38	0.772
10.00	-63.28	-35.87	0.00	-4,123.36	0.00	4,123.36	4,205.53	2,102.76	7,989.95	4,000.91	0.45	-0.43	0.771
11.00	-62.79	-35.82	0.00	-4,087.50	0.00	4,087.50	4,189.66	2,094.83	7,929.46	3,970.62	0.54	-0.47	0.769
12.00	-62.31	-35.78	0.00	-4,051.68	0.00	4,051.68	4,173.80	2,086.90	7,869.20	3,940.45	0.65	-0.51	0.767
13.00	-61.83	-35.73	0.00	-4,015.90	0.00	4,015.90	4,157.94	2,078.97	7,809.18	3,910.39	0.76	-0.56	0.765
14.00	-61.34	-35.69	0.00	-3,980.17	0.00	3,980.17	4,142.07	2,071.04	7,749.38	3,880.45	0.88	-0.60	0.763
15.00	-60.86	-35.64	0.00	-3,944.48	0.00	3,944.48	4,126.21	2,063.10	7,689.82	3,850.62	1.01	-0.64	0.761
16.00	-60.38	-35.59	0.00	-3,908.85	0.00	3,908.85	4,110.34	2,055.17	7,630.48	3,820.91	1.15	-0.69	0.759
17.00	-59.91	-35.55	0.00	-3,873.25	0.00	3,873.25	4,094.48	2,047.24	7,571.37	3,791.31	1.30	-0.73	0.757
18.00	-59.43	-35.50	0.00	-3,837.71	0.00	3,837.71	4,078.62	2,039.31	7,512.50	3,761.83	1.46	-0.77	0.755
19.00	-58.95	-35.45	0.00	-3,802.21	0.00	3,802.21	4,062.75	2,031.38	7,453.85	3,732.47	1.62	-0.82	0.753
20.00	-58.48	-35.40	0.00	-3,766.76	0.00	3,766.76	4,046.89	2,023.44	7,395.44	3,703.21	1.80	-0.86	0.750
21.00	-58.01	-35.35	0.00	-3,731.36	0.00	3,731.36	4,031.02	2,015.51	7,337.25	3,674.08	1.98	-0.90	0.748
22.00	-57.54	-35.31	0.00	-3,696.01	0.00	3,696.01	4,015.16	2,007.58	7,279.29	3,645.06	2.18	-0.95	0.746
22.50	-57.30	-35.29	0.00	-3,678.36	0.00	3,678.36	4,007.23	2,003.61	7,250.40	3,630.59	2.28	-0.97	0.745
22.50	-57.30	-35.29	0.00	-3,678.36	0.00	3,678.36	4,007.23	2,003.61	7,250.40	3,630.59	2.28	-0.97	0.745
23.00	-57.06	-35.25	0.00	-3,660.71	0.00	3,660.71	3,999.30	1,999.65	7,221.56	3,616.15	2.38	-0.99	0.744
24.00	-56.59	-35.20	0.00	-3,625.46	0.00	3,625.46	3,983.43	1,991.72	7,164.07	3,587.36	2.59	-1.03	0.741
25.00	-56.13	-35.15	0.00	-3,590.26	0.00	3,590.26	3,967.57	1,983.78	7,106.80	3,558.68	2.81	-1.08	0.739
26.00	-55.66	-35.10	0.00	-3,555.11	0.00	3,555.11	3,951.70	1,975.85	7,049.76	3,530.12	3.05	-1.12	0.737
27.00	-55.19	-35.05	0.00	-3,520.01	0.00	3,520.01	3,935.84	1,967.92	6,992.95	3,501.67	3.28	-1.16	0.734
28.00	-54.73	-35.01	0.00	-3,484.96	0.00	3,484.96	3,919.98	1,959.99	6,936.37	3,473.34	3.53	-1.21	0.732
28.50	-54.50	-34.98	0.00	-3,467.46	0.00	3,467.46	3,912.04	1,956.02	6,908.17	3,459.22	3.66	-1.23	0.731
29.00	-54.12	-34.94	0.00	-3,449.97	0.00	3,449.97	3,904.11	1,952.06	6,880.03	3,445.13	3.79	-1.25	0.721
30.00	-53.37	-34.88	0.00	-3,415.03	0.00	3,415.03	3,888.25	1,944.12	6,823.91	3,417.03	4.06	-1.30	0.719
31.00	-52.63	-34.81	0.00	-3,380.15	0.00	3,380.15	3,872.38	1,936.19	6,768.02	3,389.04	4.33	-1.34	0.716
32.00	-51.89	-34.75	0.00	-3,345.34	0.00	3,345.34	3,856.52	1,928.26	6,712.36	3,361.17	4.62	-1.38	0.713
33.00	-51.15	-34.68	0.00	-3,310.59	0.00	3,310.59	3,840.66	1,920.33	6,656.93	3,333.41	4.91	-1.43	0.710
34.00	-50.41	-34.61	0.00	-3,275.92	0.00	3,275.92	3,824.79	1,912.40	6,601.73	3,305.77	5.22	-1.47	0.708
35.00	-49.68	-34.54	0.00	-3,241.30	0.00	3,241.30	3,899.62	1,949.81	6,864.12	3,437.16	5.53	-1.51	0.686
36.00	-49.22	-34.48	0.00	-3,206.76	0.00	3,206.76	3,883.76	1,941.88	6,808.07	3,409.09	5.85	-1.56	0.683
37.00	-48.76	-34.41	0.00	-3,172.29	0.00	3,172.29	3,867.90	1,933.95	6,752.24	3,381.14	6.18	-1.60	0.681
38.00	-48.30	-34.34	0.00	-3,137.88	0.00	3,137.88	3,852.03	1,926.02	6,696.65	3,353.30	6.52	-1.64	0.678
39.00	-47.85	-34.27	0.00	-3,103.53	0.00	3,103.53	3,836.17	1,918.08	6,641.29	3,325.58	6.87	-1.68	0.675
40.00	-47.39	-34.21	0.00	-3,069.26	0.00	3,069.26	3,820.30	1,910.15	6,586.15	3,297.97	7.23	-1.72	0.672
41.00	-46.94	-34.13	0.00	-3,035.06	0.00	3,035.06	3,804.44	1,902.22	6,531.25	3,270.48	7.59	-1.76	0.669
42.00	-46.49	-34.06	0.00	-3,000.92	0.00	3,000.92	3,788.58	1,894.29	6,476.57	3,243.10	7.96	-1.80	0.666
43.00	-46.04	-33.99	0.00	-2,966.86	0.00	2,966.86	3,772.71	1,886.36	6,422.13	3,215.84	8.35	-1.84	0.663
43.00	-46.04	-33.99	0.00	-2,966.86	0.00	2,966.86	3,772.71	1,886.36	6,422.13	3,215.84	8.35	-1.84	0.663
44.00	-45.59	-33.92	0.00	-2,932.87	0.00	2,932.87	3,756.85	1,878.42	6,367.91	3,188.69	8.74	-1.89	0.660
45.00	-45.14	-33.84	0.00	-2,898.95	0.00	2,898.95	3,740.98	1,870.49	6,313.93	3,161.66	9.14	-1.93	0.657
46.00	-44.69	-33.77	0.00	-2,865.11	0.00	2,865.11	3,725.12	1,862.56	6,260.17	3,134.74	9.54	-1.97	0.654

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

47.00	-44.25	-33.69	0.00	-2,831.35	0.00	2,831.35	3,709.26	1,854.63	6,206.65	3,107.94	9.96	-2.01	0.651
48.00	-43.80	-33.61	0.00	-2,797.66	0.00	2,797.66	3,693.39	1,846.70	6,153.35	3,081.25	10.39	-2.05	0.647
49.00	-43.36	-33.53	0.00	-2,764.05	0.00	2,764.05	3,677.53	1,838.76	6,100.29	3,054.68	10.82	-2.09	0.644
50.00	-42.92	-33.45	0.00	-2,730.51	0.00	2,730.51	3,661.66	1,830.83	6,047.45	3,028.22	11.26	-2.13	0.641
51.00	-42.48	-33.37	0.00	-2,697.06	0.00	2,697.06	3,645.80	1,822.90	5,994.84	3,001.88	11.71	-2.17	0.637
52.00	-42.04	-33.29	0.00	-2,663.69	0.00	2,663.69	3,629.94	1,814.97	5,942.47	2,975.65	12.17	-2.21	0.634
53.00	-41.60	-33.21	0.00	-2,630.39	0.00	2,630.39	3,614.07	1,807.04	5,890.32	2,949.54	12.64	-2.25	0.630
54.00	-41.17	-33.11	0.00	-2,597.18	0.00	2,597.18	3,598.21	1,799.10	5,838.41	2,923.54	13.12	-2.30	0.627
55.00	-40.74	-32.96	0.00	-2,564.08	0.00	2,564.08	3,582.34	1,791.17	5,786.72	2,897.66	13.60	-2.34	0.623
56.00	-40.30	-32.80	0.00	-2,531.12	0.00	2,531.12	3,566.48	1,783.24	5,735.26	2,871.89	14.10	-2.38	0.620
57.00	-39.88	-32.65	0.00	-2,498.32	0.00	2,498.32	3,550.62	1,775.31	5,684.03	2,846.24	14.60	-2.42	0.616
58.00	-39.45	-32.50	0.00	-2,465.67	0.00	2,465.67	3,534.75	1,767.38	5,633.04	2,820.71	15.11	-2.46	0.612
59.00	-38.83	-32.33	0.00	-2,433.17	0.00	2,433.17	3,518.89	1,759.44	5,582.27	2,795.28	15.63	-2.50	0.603
60.00	-38.21	-32.16	0.00	-2,400.84	0.00	2,400.84	3,503.02	1,751.51	5,531.73	2,769.98	16.16	-2.54	0.599
61.00	-37.60	-32.00	0.00	-2,368.68	0.00	2,368.68	3,487.16	1,743.58	5,481.43	2,744.79	16.69	-2.58	0.595
62.00	-36.98	-31.83	0.00	-2,336.68	0.00	2,336.68	3,471.30	1,735.65	5,431.35	2,719.71	17.24	-2.62	0.591
63.00	-36.38	-31.69	0.00	-2,304.86	0.00	2,304.86	3,455.43	1,727.72	5,381.50	2,694.75	17.79	-2.66	0.587
63.50	-36.07	-31.60	0.00	-2,289.02	0.00	2,289.02	3,158.12	1,579.06	5,037.43	2,522.46	18.07	-2.68	0.577
64.00	-35.89	-31.49	0.00	-2,273.22	0.00	2,273.22	3,152.80	1,576.40	5,017.53	2,512.49	18.35	-2.70	0.575
65.00	-35.52	-31.34	0.00	-2,241.72	0.00	2,241.72	3,142.13	1,571.07	4,977.80	2,492.60	18.92	-2.74	0.570
66.00	-35.16	-31.18	0.00	-2,210.38	0.00	2,210.38	3,131.44	1,565.72	4,938.17	2,472.75	19.50	-2.79	0.565
67.00	-34.80	-31.02	0.00	-2,179.20	0.00	2,179.20	3,120.71	1,560.35	4,898.65	2,452.96	20.09	-2.84	0.560
68.00	-34.44	-30.87	0.00	-2,148.18	0.00	2,148.18	3,109.92	1,554.96	4,859.19	2,433.21	20.69	-2.88	0.556
69.00	-34.08	-30.71	0.00	-2,117.31	0.00	2,117.31	3,095.65	1,547.82	4,814.46	2,410.81	21.30	-2.93	0.552
70.00	-33.72	-30.55	0.00	-2,086.61	0.00	2,086.61	3,081.37	1,540.68	4,769.94	2,388.51	21.92	-2.97	0.547
71.00	-33.37	-30.39	0.00	-2,056.06	0.00	2,056.06	3,067.09	1,533.55	4,725.62	2,366.32	22.54	-3.02	0.543
72.00	-33.01	-30.23	0.00	-2,025.67	0.00	2,025.67	3,052.81	1,526.41	4,681.51	2,344.23	23.18	-3.06	0.539
73.00	-32.66	-30.07	0.00	-1,995.44	0.00	1,995.44	3,038.54	1,519.27	4,637.61	2,322.25	23.83	-3.11	0.535
74.00	-32.30	-29.91	0.00	-1,965.38	0.00	1,965.38	3,024.26	1,512.13	4,593.91	2,300.37	24.48	-3.15	0.530
75.00	-31.95	-29.74	0.00	-1,935.47	0.00	1,935.47	3,009.98	1,504.99	4,550.42	2,278.59	25.15	-3.19	0.526
76.00	-31.60	-29.58	0.00	-1,905.73	0.00	1,905.73	2,995.70	1,497.85	4,507.14	2,256.92	25.82	-3.24	0.522
77.00	-31.25	-29.42	0.00	-1,876.15	0.00	1,876.15	2,981.43	1,490.71	4,464.06	2,235.35	26.50	-3.28	0.517
78.00	-30.90	-29.25	0.00	-1,846.73	0.00	1,846.73	2,967.15	1,483.57	4,421.19	2,213.88	27.20	-3.33	0.513
79.00	-30.55	-29.09	0.00	-1,817.48	0.00	1,817.48	2,952.87	1,476.44	4,378.53	2,192.52	27.90	-3.37	0.508
80.00	-30.21	-28.92	0.00	-1,788.39	0.00	1,788.39	2,938.59	1,469.30	4,336.07	2,171.26	28.61	-3.41	0.504
81.00	-29.86	-28.76	0.00	-1,759.47	0.00	1,759.47	2,924.32	1,462.16	4,293.83	2,150.10	29.33	-3.46	0.499
82.00	-29.52	-28.59	0.00	-1,730.72	0.00	1,730.72	2,910.04	1,455.02	4,251.78	2,129.05	30.06	-3.50	0.495
83.00	-29.18	-28.43	0.00	-1,702.12	0.00	1,702.12	2,895.76	1,447.88	4,209.95	2,108.10	30.79	-3.54	0.490
84.00	-28.84	-28.26	0.00	-1,673.70	0.00	1,673.70	2,881.48	1,440.74	4,168.32	2,087.26	31.54	-3.59	0.485
85.00	-28.50	-28.09	0.00	-1,645.44	0.00	1,645.44	2,867.21	1,433.60	4,126.90	2,066.52	32.30	-3.63	0.481
86.00	-28.16	-27.92	0.00	-1,617.35	0.00	1,617.35	2,852.93	1,426.46	4,085.69	2,045.88	33.06	-3.67	0.476
87.00	-27.82	-27.76	0.00	-1,589.43	0.00	1,589.43	2,838.65	1,419.33	4,044.68	2,025.35	33.83	-3.71	0.471
88.00	-27.48	-27.59	0.00	-1,561.67	0.00	1,561.67	2,824.37	1,412.19	4,003.88	2,004.91	34.61	-3.75	0.467
89.00	-27.01	-27.40	0.00	-1,534.09	0.00	1,534.09	2,810.09	1,405.05	3,963.28	1,984.59	35.41	-3.80	0.456
90.00	-26.53	-27.22	0.00	-1,506.68	0.00	1,506.68	2,795.82	1,397.91	3,922.90	1,964.36	36.20	-3.84	0.451
91.00	-26.06	-27.04	0.00	-1,479.46	0.00	1,479.46	2,781.54	1,390.77	3,882.72	1,944.24	37.01	-3.88	0.446
92.00	-25.59	-26.86	0.00	-1,452.42	0.00	1,452.42	2,767.26	1,383.63	3,842.74	1,924.23	37.83	-3.92	0.441
93.00	-25.12	-26.68	0.00	-1,425.56	0.00	1,425.56	2,292.76	1,146.38	3,238.31	1,621.56	38.65	-3.96	0.486
94.00	-24.81	-26.50	0.00	-1,398.88	0.00	1,398.88	2,284.25	1,142.13	3,209.75	1,607.26	39.49	-4.00	0.480
95.00	-24.51	-26.33	0.00	-1,372.38	0.00	1,372.38	2,275.71	1,137.86	3,181.27	1,593.00	40.33	-4.04	0.473
96.00	-24.21	-26.16	0.00	-1,346.05	0.00	1,346.05	2,267.14	1,133.57	3,152.86	1,578.78	41.18	-4.08	0.467
97.00	-23.90	-25.99	0.00	-1,319.89	0.00	1,319.89	2,258.54	1,129.27	3,124.54	1,564.59	42.04	-4.13	0.461
98.00	-23.60	-25.82	0.00	-1,293.90	0.00	1,293.90	2,249.90	1,124.95	3,096.30	1,550.45	42.91	-4.17	0.454
99.00	-23.30	-25.65	0.00	-1,268.08	0.00	1,268.08	2,241.24	1,120.62	3,068.14	1,536.35	43.78	-4.21	0.448
100.00	-23.00	-25.47	0.00	-1,242.43	0.00	1,242.43	2,232.54	1,116.27	3,040.06	1,522.29	44.67	-4.25	0.441
101.00	-22.71	-25.30	0.00	-1,216.96	0.00	1,216.96	2,223.81	1,111.90	3,012.06	1,508.27	45.56	-4.29	0.435
102.00	-22.41	-25.13	0.00	-1,191.66	0.00	1,191.66	2,215.04	1,107.52	2,984.14	1,494.29	46.47	-4.33	0.428

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

103.00	-22.11	-24.95	0.00	-1,166.54	0.00	1,166.54	2,206.25	1,103.12	2,956.31	1,480.35	47.38	-4.37	0.422
104.00	-21.82	-24.78	0.00	-1,141.58	0.00	1,141.58	2,197.42	1,098.71	2,928.57	1,466.46	48.30	-4.41	0.415
105.00	-21.53	-24.61	0.00	-1,116.80	0.00	1,116.80	2,188.56	1,094.28	2,900.91	1,452.61	49.22	-4.45	0.409
105.00	-21.53	-24.61	0.00	-1,116.80	0.00	1,116.80	2,188.56	1,094.28	2,900.91	1,452.61	49.22	-4.45	0.779
106.00	-21.31	-24.44	0.00	-1,092.20	0.00	1,092.20	2,179.67	1,089.83	2,873.33	1,438.80	50.16	-4.49	0.769
107.00	-21.08	-24.29	0.00	-1,067.76	0.00	1,067.76	2,170.74	1,085.37	2,845.85	1,425.04	51.11	-4.56	0.759
108.00	-20.86	-24.13	0.00	-1,043.47	0.00	1,043.47	2,161.78	1,080.89	2,818.44	1,411.32	52.07	-4.64	0.750
109.00	-20.63	-23.98	0.00	-1,019.33	0.00	1,019.33	2,150.55	1,075.28	2,788.22	1,396.18	53.05	-4.71	0.740
110.00	-20.41	-23.82	0.00	-995.35	0.00	995.35	2,138.65	1,069.33	2,757.31	1,380.70	54.04	-4.78	0.731
111.00	-20.19	-23.69	0.00	-971.53	0.00	971.53	2,126.76	1,063.38	2,726.56	1,365.31	55.05	-4.85	0.722
112.00	-19.96	-23.60	0.00	-947.85	0.00	947.85	2,114.86	1,057.43	2,695.99	1,350.00	56.07	-4.92	0.712
113.00	-19.74	-23.50	0.00	-924.24	0.00	924.24	2,102.96	1,051.48	2,665.59	1,334.78	57.11	-4.99	0.702
114.00	-19.52	-23.35	0.00	-900.74	0.00	900.74	2,091.06	1,045.53	2,635.36	1,319.64	58.16	-5.06	0.692
115.00	-19.30	-23.20	0.00	-877.40	0.00	877.40	2,079.16	1,039.58	2,605.31	1,304.59	59.23	-5.13	0.682
116.00	-19.09	-23.07	0.00	-854.20	0.00	854.20	2,067.27	1,033.63	2,575.43	1,289.63	60.31	-5.20	0.672
116.50	-18.99	-23.00	0.00	-842.66	0.00	842.66	2,061.32	1,030.66	2,560.55	1,282.18	60.86	-5.24	0.667
117.00	-18.83	-22.89	0.00	-831.16	0.00	831.16	2,055.37	1,027.68	2,545.72	1,274.75	61.41	-5.27	0.662
118.00	-18.51	-22.73	0.00	-808.27	0.00	808.27	2,043.47	1,021.73	2,516.18	1,259.96	62.52	-5.34	0.651
119.00	-18.21	-22.57	0.00	-785.54	0.00	785.54	2,031.57	1,015.79	2,486.81	1,245.26	63.64	-5.41	0.640
120.00	-17.90	-22.40	0.00	-762.98	0.00	762.98	2,019.67	1,009.84	2,457.62	1,230.64	64.78	-5.47	0.629
121.00	-17.59	-22.24	0.00	-740.58	0.00	740.58	1,562.89	781.45	1,930.84	966.86	65.93	-5.54	0.778
122.00	-17.41	-22.09	0.00	-718.34	0.00	718.34	1,556.55	778.28	1,911.74	957.29	67.10	-5.60	0.762
123.00	-17.22	-21.94	0.00	-696.26	0.00	696.26	1,550.18	775.09	1,892.68	947.75	68.28	-5.68	0.747
124.00	-17.03	-21.79	0.00	-674.32	0.00	674.32	1,543.77	771.89	1,873.68	938.23	69.47	-5.75	0.731
125.00	-16.85	-21.64	0.00	-652.53	0.00	652.53	1,537.34	768.67	1,854.73	928.74	70.68	-5.82	0.714
126.00	-16.66	-21.49	0.00	-630.89	0.00	630.89	1,530.87	765.43	1,835.84	919.28	71.91	-5.89	0.698
127.00	-13.49	-16.93	0.00	-609.41	0.00	609.41	1,524.37	762.18	1,817.00	909.85	73.15	-5.97	0.679
128.00	-13.33	-16.78	0.00	-592.48	0.00	592.48	1,517.84	758.92	1,798.22	900.45	74.40	-6.04	0.667
129.00	-13.17	-16.62	0.00	-575.70	0.00	575.70	1,511.27	755.64	1,779.50	891.07	75.67	-6.10	0.655
130.00	-13.02	-16.47	0.00	-559.08	0.00	559.08	1,504.67	752.34	1,760.83	881.72	76.96	-6.17	0.643
131.00	-12.86	-16.32	0.00	-542.61	0.00	542.61	1,498.04	749.02	1,742.22	872.40	78.26	-6.24	0.631
132.00	-12.71	-16.17	0.00	-526.29	0.00	526.29	1,491.38	745.69	1,723.67	863.12	79.57	-6.31	0.619
133.00	-12.55	-16.01	0.00	-510.13	0.00	510.13	1,484.69	742.34	1,705.18	853.86	80.89	-6.37	0.606
134.00	-12.40	-15.86	0.00	-494.11	0.00	494.11	1,477.96	738.98	1,686.75	844.63	82.23	-6.44	0.594
135.00	-12.25	-15.71	0.00	-478.25	0.00	478.25	1,471.20	735.60	1,668.38	835.43	83.58	-6.50	0.581
136.00	-12.10	-15.55	0.00	-462.55	0.00	462.55	1,464.41	732.21	1,650.07	826.26	84.95	-6.57	0.569
137.00	-11.95	-15.40	0.00	-446.99	0.00	446.99	1,457.59	728.80	1,631.83	817.13	86.33	-6.63	0.556
138.00	-11.80	-15.25	0.00	-431.59	0.00	431.59	1,450.74	725.37	1,613.64	808.02	87.72	-6.69	0.543
139.00	-11.66	-15.10	0.00	-416.34	0.00	416.34	1,443.85	721.92	1,595.53	798.95	89.13	-6.75	0.530
140.00	-11.51	-14.94	0.00	-401.25	0.00	401.25	1,436.93	718.47	1,577.47	789.91	90.54	-6.81	0.516
141.00	-11.37	-14.79	0.00	-386.30	0.00	386.30	1,429.98	714.99	1,559.48	780.90	91.97	-6.87	0.503
142.00	-11.23	-14.64	0.00	-371.51	0.00	371.51	1,423.00	711.50	1,541.56	771.93	93.41	-6.92	0.490
143.00	-11.08	-14.49	0.00	-356.87	0.00	356.87	1,415.98	707.99	1,523.71	762.99	94.87	-6.98	0.476
144.00	-10.94	-14.33	0.00	-342.39	0.00	342.39	1,408.93	704.47	1,505.92	754.08	96.33	-7.04	0.462
145.00	-10.79	-14.18	0.00	-328.05	0.00	328.05	1,401.85	700.93	1,488.20	745.20	97.81	-7.09	0.448
146.00	-9.23	-12.01	0.00	-313.88	0.00	313.88	1,394.74	697.37	1,470.54	736.36	99.29	-7.14	0.433
147.00	-9.10	-11.93	0.00	-301.86	0.00	301.86	1,387.60	693.80	1,452.96	727.56	100.79	-7.19	0.422
148.00	-8.97	-11.85	0.00	-289.93	0.00	289.93	1,379.83	689.92	1,434.84	718.48	102.30	-7.24	0.410
149.00	-8.85	-11.76	0.00	-278.08	0.00	278.08	1,370.32	685.16	1,415.01	708.56	103.82	-7.29	0.399
150.00	-8.66	-11.67	0.00	-266.32	0.00	266.32	1,360.80	680.40	1,395.33	698.70	105.35	-7.34	0.388
151.00	-8.48	-11.58	0.00	-254.65	0.00	254.65	1,351.28	675.64	1,375.78	688.91	106.89	-7.39	0.376
152.00	-8.29	-11.50	0.00	-243.07	0.00	243.07	1,341.76	670.88	1,356.37	679.19	108.44	-7.43	0.364
152.50	-8.20	-11.46	0.00	-237.31	0.00	237.31	942.35	471.17	968.66	485.05	109.21	-7.46	0.499
153.00	-8.15	-11.40	0.00	-231.59	0.00	231.59	940.20	470.10	963.05	482.24	109.99	-7.48	0.489
154.00	-8.05	-11.32	0.00	-220.18	0.00	220.18	935.87	467.94	951.84	476.63	111.56	-7.54	0.471
155.00	-7.94	-11.24	0.00	-208.86	0.00	208.86	931.51	465.76	940.66	471.03	113.14	-7.59	0.453
156.00	-7.84	-11.16	0.00	-197.62	0.00	197.62	927.12	463.56	929.51	465.45	114.73	-7.64	0.434

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Load Case: 1.2D + 1.6W 97 mph with No Ice 36 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.20
Wind Load Factor :1.60

157.00	-7.74	-11.08	0.00	-186.46	0.00	186.46	922.70	461.35	918.40	459.88	116.33	-7.69	0.414
158.00	-7.64	-11.00	0.00	-175.39	0.00	175.39	918.25	459.12	907.31	454.33	117.95	-7.74	0.395
159.00	-7.54	-10.92	0.00	-164.39	0.00	164.39	913.76	456.88	896.26	448.80	119.57	-7.78	0.375
160.00	-7.44	-10.83	0.00	-153.47	0.00	153.47	909.24	454.62	885.24	443.28	121.20	-7.83	0.355
161.00	-7.34	-10.75	0.00	-142.64	0.00	142.64	904.69	452.35	874.26	437.78	122.84	-7.87	0.335
162.00	-7.25	-10.67	0.00	-131.89	0.00	131.89	900.11	450.06	863.31	432.30	124.48	-7.91	0.314
163.00	-7.15	-10.59	0.00	-121.22	0.00	121.22	895.50	447.75	852.40	426.83	126.14	-7.95	0.293
164.00	-7.06	-10.51	0.00	-110.63	0.00	110.63	890.85	445.42	841.52	421.39	127.80	-7.98	0.271
165.00	-6.96	-10.42	0.00	-100.12	0.00	100.12	886.17	443.09	830.68	415.96	129.48	-8.02	0.249
166.00	-6.87	-10.34	0.00	-89.70	0.00	89.70	881.46	440.73	819.88	410.55	131.15	-8.05	0.227
167.00	-3.40	-5.66	0.00	-79.36	0.00	79.36	876.72	438.36	809.12	405.16	132.84	-8.07	0.200
168.00	-3.32	-5.58	0.00	-73.70	0.00	73.70	871.94	435.97	798.40	399.79	134.53	-8.10	0.188
169.00	-3.25	-5.50	0.00	-68.12	0.00	68.12	867.13	433.57	787.71	394.44	136.22	-8.12	0.177
170.00	-3.18	-5.41	0.00	-62.63	0.00	62.63	862.29	431.15	777.07	389.11	137.92	-8.15	0.165
171.00	-3.08	-4.84	0.00	-57.21	0.00	57.21	857.42	428.71	766.47	383.80	139.62	-8.17	0.153
172.00	-3.02	-4.78	0.00	-52.37	0.00	52.37	852.52	426.26	755.91	378.52	141.33	-8.19	0.142
173.00	-2.95	-4.71	0.00	-47.59	0.00	47.59	847.58	423.79	745.39	373.25	143.04	-8.21	0.131
174.00	-2.88	-4.65	0.00	-42.88	0.00	42.88	842.61	421.31	734.92	368.01	144.75	-8.22	0.120
175.00	-2.82	-4.58	0.00	-38.24	0.00	38.24	837.61	418.81	724.49	362.78	146.47	-8.24	0.109
176.00	-2.75	-4.51	0.00	-33.66	0.00	33.66	832.58	416.29	714.11	357.59	148.20	-8.26	0.098
177.00	-2.69	-4.45	0.00	-29.14	0.00	29.14	827.51	413.76	703.77	352.41	149.92	-8.27	0.086
178.00	-2.63	-4.38	0.00	-24.69	0.00	24.69	822.42	411.21	693.48	347.26	151.65	-8.28	0.074
179.00	-2.56	-4.32	0.00	-20.31	0.00	20.31	817.29	408.64	683.23	342.12	153.38	-8.29	0.063
180.00	-2.50	-4.26	0.00	-15.99	0.00	15.99	812.13	406.06	673.04	337.02	155.11	-8.30	0.051
181.00	-2.44	-4.19	0.00	-11.73	0.00	11.73	806.93	403.47	662.89	331.94	156.84	-8.30	0.038
182.00	-2.38	-4.13	0.00	-7.54	0.00	7.54	801.71	400.85	652.79	326.88	158.57	-8.31	0.026
183.00	0.00	-3.74	0.00	-3.42	0.00	3.42	796.45	398.23	642.74	321.85	160.31	-8.31	0.011

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Load Case: 0.9D + 1.6W — 97 mph with No Ice (Reduced DL) — 35 Iterations

Gust Response Factor :1.10
Dead Load Factor :0.90
Wind Load Factor :1.60

Wind Importance Factor 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces Wind FX (lb)	Shaft Forces Dead Load (lb)	Discrete Forces Wind FX (lb)	Discrete Forces Torsion MY (lb-ft)	Discrete Forces Moment MZ (lb-ft)	Discrete Forces Dead Load (lb)	Linear Forces Wind FX (lb)	Linear Forces Dead Load (lb)	Sum of Forces Wind FX (lb)	Sum of Forces Dead Load (lb)	Sum of Forces Torsion MY (lb-ft)	Sum of Forces Moment MZ (lb)
0.00		37.6	0.0					0.0	0.0	37.6	0.0	0.0	0.0
1.00		75.1	233.4					0.0	60.1	75.1	293.6	0.0	0.0
2.00		74.8	232.6					0.0	60.1	74.8	292.7	0.0	0.0
3.00		74.6	231.7					0.0	60.1	74.6	291.9	0.0	0.0
4.00		74.3	230.9					0.0	60.1	74.3	291.0	0.0	0.0
5.00		74.0	230.0					0.0	60.1	74.0	290.2	0.0	0.0
6.00		73.8	229.2					0.0	119.4	73.8	348.5	0.0	0.0
7.00	Appertunance(s)	73.5	228.3	72.2	0.0	0.0	68.0	0.0	119.4	145.7	415.7	0.0	0.0
8.00		73.2	227.5					0.0	119.4	73.2	346.8	0.0	0.0
9.00		72.9	226.6					0.0	119.4	72.9	346.0	0.0	0.0
10.00		72.7	225.8					0.0	119.4	72.7	345.1	0.0	0.0
11.00		72.4	224.9					0.0	119.4	72.4	344.3	0.0	0.0
12.00		72.1	224.1					0.0	119.4	72.1	343.4	0.0	0.0
13.00		71.9	223.2					0.0	119.4	71.9	342.6	0.0	0.0
14.00		71.6	222.4					0.0	119.4	71.6	341.7	0.0	0.0
15.00		71.3	221.5					0.0	119.4	71.3	340.9	0.0	0.0
16.00		71.1	220.7					0.0	119.4	71.1	340.0	0.0	0.0
17.00		70.8	219.8					0.0	119.4	70.8	339.2	0.0	0.0
18.00		70.5	219.0					0.0	119.4	70.5	338.3	0.0	0.0
19.00		70.2	218.1					0.0	119.4	70.2	337.5	0.0	0.0
20.00		70.0	217.3					0.0	119.4	70.0	336.6	0.0	0.0
21.00		69.7	216.4					0.0	119.4	69.7	335.8	0.0	0.0
22.00		52.1	215.6					0.0	119.4	52.1	334.9	0.0	0.0
22.50	Reinf. Top Reinf	34.6	107.5					0.0	59.7	34.6	167.2	0.0	0.0
23.00		51.8	107.3					0.0	59.7	51.8	166.9	0.0	0.0
24.00		68.9	213.9					0.0	119.4	68.9	333.2	0.0	0.0
25.00		68.6	213.0					0.0	119.4	68.6	332.4	0.0	0.0
26.00		68.3	212.2					0.0	119.4	68.3	331.5	0.0	0.0
27.00		68.1	211.3					0.0	119.4	68.1	330.7	0.0	0.0
28.00		50.9	210.5					0.0	119.4	50.9	329.8	0.0	0.0
28.50	Bot - Section 2	34.2	104.9					0.0	59.7	34.2	164.6	0.0	0.0
29.00		51.8	211.9					0.0	59.7	51.8	271.5	0.0	0.0
30.00		69.0	422.4					0.0	119.4	69.0	541.8	0.0	0.0
31.00		69.2	420.7					0.0	119.4	69.2	540.1	0.0	0.0
32.00		69.6	419.0					0.0	119.4	69.6	538.4	0.0	0.0
33.00		69.9	417.3					0.0	119.4	69.9	536.7	0.0	0.0
34.00		70.2	415.6					0.0	119.4	70.2	535.0	0.0	0.0
35.00	Top - Section 1	70.5	413.9					0.0	119.4	70.5	533.3	0.0	0.0
36.00		70.8	208.5					0.0	119.4	70.8	327.9	0.0	0.0
37.00		71.1	207.7					0.0	119.4	71.1	327.1	0.0	0.0
38.00		71.3	206.8					0.0	119.4	71.3	326.2	0.0	0.0
39.00		71.6	206.0					0.0	119.4	71.6	325.4	0.0	0.0
40.00		71.8	205.1					0.0	119.4	71.8	324.5	0.0	0.0
41.00		72.0	204.3					0.0	119.4	72.0	323.7	0.0	0.0
42.00		72.2	203.4					0.0	119.4	72.2	322.8	0.0	0.0
43.00	Reinf. Top Reinf	72.4	202.6					0.0	119.4	72.4	322.0	0.0	0.0
44.00		72.6	201.7					0.0	119.4	72.6	321.1	0.0	0.0
45.00		72.7	200.9					0.0	119.4	72.7	320.3	0.0	0.0

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Load Case: 0.9D + 1.6W 97 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :0.90
Wind Load Factor :1.60

46.00		72.9	200.0	0.0	119.4	72.9	319.4	0.0	0.0
47.00		73.0	199.2	0.0	119.4	73.0	318.6	0.0	0.0
48.00		73.2	198.3	0.0	119.4	73.2	317.7	0.0	0.0
49.00		73.3	197.5	0.0	119.4	73.3	316.9	0.0	0.0
50.00		73.4	196.6	0.0	119.4	73.4	316.0	0.0	0.0
51.00		73.5	195.8	0.0	119.4	73.5	315.2	0.0	0.0
52.00		73.6	194.9	0.0	119.4	73.6	314.3	0.0	0.0
53.00		73.7	194.1	0.0	119.4	73.7	313.5	0.0	0.0
54.00		105.0	193.2	0.0	119.4	105.0	312.6	0.0	0.0
55.00		136.3	192.4	27.3	119.4	163.6	311.7	0.0	0.0
56.00		136.4	191.5	27.4	119.4	163.8	310.9	0.0	0.0
57.00		136.5	190.7	27.6	119.4	164.0	310.0	0.0	0.0
58.00	Bot - Section 3	137.8	189.8	27.7	119.4	165.6	309.2	0.0	0.0
59.00		139.2	333.9	27.9	119.4	167.1	453.3	0.0	0.0
60.00		139.3	332.4	28.0	119.4	167.3	451.8	0.0	0.0
61.00		139.3	330.9	28.1	119.4	167.4	450.3	0.0	0.0
62.00		139.3	329.5	28.3	119.4	167.6	448.8	0.0	0.0
63.00		104.5	328.0	28.4	119.4	132.9	447.3	0.0	0.0
63.50	Top - Section 2	69.7	163.4	14.2	59.7	83.9	223.1	0.0	0.0
64.00		104.5	70.8	14.3	59.7	118.8	130.5	0.0	0.0
65.00		139.4	141.1	28.7	119.4	168.0	260.5	0.0	0.0
66.00		139.3	140.5	28.8	119.4	168.1	259.8	0.0	0.0
67.00		139.3	139.8	28.9	119.4	168.2	259.2	0.0	0.0
68.00		139.3	139.2	29.0	119.4	168.3	258.6	0.0	0.0
69.00		139.2	138.6	29.1	119.4	168.4	257.9	0.0	0.0
70.00		139.1	137.9	29.3	119.4	168.4	257.3	0.0	0.0
71.00		139.1	137.3	29.4	119.4	168.5	256.6	0.0	0.0
72.00		139.0	136.6	29.5	119.4	168.5	256.0	0.0	0.0
73.00		138.9	136.0	29.6	119.4	168.5	255.4	0.0	0.0
74.00		138.8	135.4	29.7	119.4	168.5	254.7	0.0	0.0
75.00		138.7	134.7	29.9	119.4	168.5	254.1	0.0	0.0
76.00		138.5	134.1	30.0	119.4	168.5	253.5	0.0	0.0
77.00		138.4	133.5	30.1	119.4	168.5	252.8	0.0	0.0
78.00		138.3	132.8	30.2	119.4	168.4	252.2	0.0	0.0
79.00		138.1	132.2	30.3	119.4	168.4	251.5	0.0	0.0
80.00		137.9	131.5	30.4	119.4	168.3	250.9	0.0	0.0
81.00		137.8	130.9	30.5	119.4	168.3	250.3	0.0	0.0
82.00		137.6	130.3	30.6	119.4	168.2	249.6	0.0	0.0
83.00		137.4	129.6	30.7	119.4	168.1	249.0	0.0	0.0
84.00		137.2	129.0	30.8	119.4	168.0	248.4	0.0	0.0
85.00		137.0	128.4	31.0	119.4	167.9	247.7	0.0	0.0
86.00		136.7	127.7	31.1	119.4	167.8	247.1	0.0	0.0
87.00		136.5	127.1	31.2	119.4	167.7	246.4	0.0	0.0
88.00	Bot - Section 4	137.5	126.4	31.3	119.4	168.8	245.8	0.0	0.0
89.00		138.5	232.7	31.4	119.4	169.8	352.1	0.0	0.0
90.00		138.2	231.6	31.5	119.4	169.7	350.9	0.0	0.0
91.00		138.0	230.4	31.6	119.4	169.6	349.8	0.0	0.0
92.00		137.7	229.2	31.7	119.4	169.4	348.6	0.0	0.0
93.00	Top - Section 3	137.5	228.1	31.8	119.4	169.2	347.4	0.0	0.0
94.00		137.2	104.3	31.9	119.4	169.0	223.6	0.0	0.0
95.00		136.9	103.7	32.0	119.4	168.9	223.1	0.0	0.0
96.00		136.6	103.2	32.1	119.4	168.7	222.6	0.0	0.0
97.00		136.3	102.7	32.1	119.4	168.5	222.0	0.0	0.0
98.00		136.0	102.1	32.2	119.4	168.3	221.5	0.0	0.0
99.00		135.7	101.6	32.3	119.4	168.0	221.0	0.0	0.0
100.00		135.4	101.1	32.4	119.4	167.8	220.4	0.0	0.0
101.00		135.1	100.6	32.5	119.4	167.6	219.9	0.0	0.0

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Load Case: 0.9D + 1.6W 97 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :0.90
Wind Load Factor :1.60

102.00		134.7	100.0					32.6	119.4	167.4	219.4	0.0	0.0
103.00		134.4	99.5					32.7	119.4	167.1	218.8	0.0	0.0
104.00		134.1	99.0					32.8	119.4	166.9	218.3	0.0	0.0
105.00	Reinf. Top	133.7	98.4					32.9	119.4	166.6	217.8	0.0	0.0
106.00		133.4	97.9					33.0	59.2	166.3	157.1	0.0	0.0
107.00		133.0	97.4					33.1	59.2	166.1	156.6	0.0	0.0
108.00		132.6	96.8					33.2	59.2	165.8	156.1	0.0	0.0
109.00		132.3	96.3					33.2	59.2	165.5	155.5	0.0	0.0
110.00		131.9	95.8					33.3	59.2	165.2	155.0	0.0	0.0
111.00		101.4	95.2					31.8	59.2	133.2	154.5	0.0	0.0
112.00		71.0	94.7					0.0	59.2	71.0	153.9	0.0	0.0
113.00		100.7	94.2					0.0	59.2	100.7	153.4	0.0	0.0
114.00		130.3	93.6					26.2	59.2	156.5	152.9	0.0	0.0
115.00		129.9	93.1					26.2	59.2	156.1	152.4	0.0	0.0
116.00		97.2	92.6					26.3	59.2	123.5	151.8	0.0	0.0
116.50	Bot - Section 5	65.2	46.1					13.2	29.6	78.3	75.7	0.0	0.0
117.00		98.3	83.4					13.2	29.6	111.5	113.0	0.0	0.0
118.00		130.7	166.1					26.4	59.2	157.2	225.3	0.0	0.0
119.00		130.3	165.1					26.5	59.2	156.8	224.4	0.0	0.0
120.00		129.9	164.2					26.6	59.2	156.4	223.4	0.0	0.0
121.00	Top - Section 4	129.4	163.2					26.6	59.2	156.0	222.5	0.0	0.0
122.00		129.0	72.9					26.7	59.2	155.7	132.1	0.0	0.0
123.00		128.5	72.5					26.7	59.2	155.3	131.7	0.0	0.0
124.00		128.1	72.0					26.8	59.2	154.9	131.3	0.0	0.0
125.00		127.6	71.6					26.9	59.2	154.5	130.8	0.0	0.0
126.00		127.2	71.2					26.9	59.2	154.1	130.4	0.0	0.0
127.00	Appertunance(s)	126.7	70.8	4,071.7	0.0	0.0	2,576.3	27.0	59.2	4,225.4	2,706.3	0.0	0.0
128.00		126.2	70.3					27.0	46.1	153.3	116.5	0.0	0.0
129.00		125.7	69.9					27.1	46.1	152.8	116.0	0.0	0.0
130.00		125.3	69.5					27.2	46.1	152.4	115.6	0.0	0.0
131.00		124.8	69.1					27.2	46.1	152.0	115.2	0.0	0.0
132.00		124.3	68.6					27.3	46.1	151.6	114.8	0.0	0.0
133.00		123.8	68.2					27.3	46.1	151.1	114.3	0.0	0.0
134.00		123.3	67.8					27.4	46.1	150.7	113.9	0.0	0.0
135.00		122.8	67.4					27.5	46.1	150.2	113.5	0.0	0.0
136.00		122.3	66.9					27.5	46.1	149.8	113.1	0.0	0.0
137.00		121.7	66.5					27.6	46.1	149.3	112.6	0.0	0.0
138.00		121.2	66.1					27.6	46.1	148.8	112.2	0.0	0.0
139.00		120.7	65.7					27.7	46.1	148.4	111.8	0.0	0.0
140.00		120.2	65.2					27.8	46.1	147.9	111.4	0.0	0.0
141.00		119.6	64.8					27.8	46.1	147.4	110.9	0.0	0.0
142.00		119.1	64.4					27.9	46.1	146.9	110.5	0.0	0.0
143.00		118.5	64.0					27.9	46.1	146.5	110.1	0.0	0.0
144.00		118.0	63.5					28.0	46.1	146.0	109.7	0.0	0.0
145.00	Appertunance(s)	117.4	63.1	4.8	0.0	0.0	8.9	28.0	46.1	150.2	118.1	0.0	0.0
146.00	Appertunance(s)	90.2	62.7	1,836.7	0.0	0.0	1,249.8	28.1	46.1	1,955.0	1,358.6	0.0	0.0
147.00		63.0	62.3					0.0	32.8	63.0	95.1	0.0	0.0
148.00		62.7	61.8					0.0	32.8	62.7	94.7	0.0	0.0
149.00	Bot - Section 6	62.9	61.4					0.0	32.8	62.9	94.3	0.0	0.0
150.00		63.0	107.5					0.0	32.8	63.0	140.4	0.0	0.0
151.00		62.7	106.8					0.0	32.8	62.7	139.6	0.0	0.0
152.00		46.8	106.0					0.0	32.8	46.8	138.9	0.0	0.0
152.50	Top - Section 5	31.1	52.7					0.0	16.4	31.1	69.2	0.0	0.0
153.00		46.5	22.7					0.0	16.4	46.5	39.2	0.0	0.0
154.00		61.7	45.3					0.0	32.8	61.7	78.1	0.0	0.0
155.00		61.4	44.9					0.0	32.8	61.4	77.8	0.0	0.0
156.00		61.1	44.6					0.0	32.8	61.1	77.5	0.0	0.0

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Load Case: 0.9D + 1.6W 97 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :0.90
Wind Load Factor :1.60

157.00		60.8	44.3					0.0	32.8	60.8	77.2	0.0	0.0
158.00		60.5	44.0					0.0	32.8	60.5	76.8	0.0	0.0
159.00		60.1	43.7					0.0	32.8	60.1	76.5	0.0	0.0
160.00		59.8	43.3					0.0	32.8	59.8	76.2	0.0	0.0
161.00		59.5	43.0					0.0	32.8	59.5	75.9	0.0	0.0
162.00		59.1	42.7					0.0	32.8	59.1	75.6	0.0	0.0
163.00		58.8	42.4					0.0	32.8	58.8	75.2	0.0	0.0
164.00		58.5	42.1					0.0	32.8	58.5	74.9	0.0	0.0
165.00		58.1	41.8					0.0	32.8	58.1	74.6	0.0	0.0
166.00		57.8	41.4					0.0	32.8	57.8	74.3	0.0	0.0
167.00	Appertunance(s)	57.4	41.1	4,076.7	0.0	0.0	2,994.7	0.0	32.8	4,134.1	3,068.6	0.0	0.0
168.00		57.1	40.8					0.0	20.5	57.1	61.3	0.0	0.0
169.00		56.7	40.5					0.0	20.5	56.7	61.0	0.0	0.0
170.00		56.4	40.2					0.0	20.5	56.4	60.7	0.0	0.0
171.00	Appertunance(s)	56.0	39.8	489.3	0.0	0.0	71.3	0.0	20.5	545.3	131.6	0.0	0.0
172.00		55.7	39.5					0.0	16.1	55.7	55.6	0.0	0.0
173.00		55.3	39.2					0.0	16.1	55.3	55.3	0.0	0.0
174.00		55.0	38.9					0.0	16.1	55.0	55.0	0.0	0.0
175.00		54.6	38.6					0.0	16.1	54.6	54.7	0.0	0.0
176.00		54.2	38.2					0.0	16.1	54.2	54.3	0.0	0.0
177.00		53.9	37.9					0.0	16.1	53.9	54.0	0.0	0.0
178.00		53.5	37.6					0.0	16.1	53.5	53.7	0.0	0.0
179.00		53.2	37.3					0.0	16.1	53.2	53.4	0.0	0.0
180.00		52.8	37.0					0.0	16.1	52.8	53.1	0.0	0.0
181.00		52.4	36.7					0.0	16.1	52.4	52.8	0.0	0.0
182.00		52.0	36.3					0.0	16.1	52.0	52.4	0.0	0.0
183.00	Appertunance(s)	25.9	36.0	3,713.2	0.0	3,415.3	2,158.4	0.0	16.1	3,739.1	2,210.5	0.0	0.0
								Totals:		35,005.0	50,929.3	0.00	0.00

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Load Case: 0.9D + 1.6W 97 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :0.90
Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.92	-34.98	0.00	-4,321.40	0.00	4,321.40	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.756
1.00	-50.60	-34.95	0.00	-4,286.42	0.00	4,286.42	4,348.30	2,174.15	8,544.66	4,278.68	0.00	-0.04	0.755
2.00	-50.28	-34.91	0.00	-4,251.48	0.00	4,251.48	4,332.44	2,166.22	8,482.10	4,247.36	0.02	-0.08	0.753
3.00	-49.96	-34.87	0.00	-4,216.57	0.00	4,216.57	4,316.57	2,158.29	8,419.78	4,216.15	0.04	-0.12	0.752
4.00	-49.65	-34.83	0.00	-4,181.70	0.00	4,181.70	4,300.71	2,150.36	8,357.68	4,185.05	0.07	-0.16	0.750
5.00	-49.33	-34.79	0.00	-4,146.88	0.00	4,146.88	4,284.85	2,142.42	8,295.82	4,154.08	0.11	-0.20	0.749
6.00	-48.96	-34.75	0.00	-4,112.09	0.00	4,112.09	4,268.98	2,134.49	8,234.19	4,123.21	0.16	-0.25	0.747
7.00	-48.52	-34.63	0.00	-4,077.34	0.00	4,077.34	4,253.12	2,126.56	8,172.78	4,092.46	0.21	-0.29	0.745
8.00	-48.15	-34.59	0.00	-4,042.71	0.00	4,042.71	4,237.26	2,118.63	8,111.60	4,061.83	0.28	-0.33	0.743
9.00	-47.78	-34.55	0.00	-4,008.12	0.00	4,008.12	4,221.39	2,110.70	8,050.66	4,031.31	0.35	-0.37	0.742
10.00	-47.41	-34.51	0.00	-3,973.56	0.00	3,973.56	4,205.53	2,102.76	7,989.95	4,000.91	0.43	-0.41	0.740
11.00	-47.04	-34.47	0.00	-3,939.05	0.00	3,939.05	4,189.66	2,094.83	7,929.46	3,970.62	0.52	-0.45	0.738
12.00	-46.67	-34.43	0.00	-3,904.58	0.00	3,904.58	4,173.80	2,086.90	7,869.20	3,940.45	0.62	-0.49	0.736
13.00	-46.30	-34.39	0.00	-3,870.15	0.00	3,870.15	4,157.94	2,078.97	7,809.18	3,910.39	0.73	-0.54	0.735
14.00	-45.94	-34.35	0.00	-3,835.76	0.00	3,835.76	4,142.07	2,071.04	7,749.38	3,880.45	0.85	-0.58	0.733
15.00	-45.57	-34.31	0.00	-3,801.41	0.00	3,801.41	4,126.21	2,063.10	7,689.82	3,850.62	0.97	-0.62	0.731
16.00	-45.21	-34.26	0.00	-3,767.11	0.00	3,767.11	4,110.34	2,055.17	7,630.48	3,820.91	1.11	-0.66	0.729
17.00	-44.85	-34.22	0.00	-3,732.84	0.00	3,732.84	4,094.48	2,047.24	7,571.37	3,791.31	1.25	-0.70	0.727
18.00	-44.48	-34.18	0.00	-3,698.62	0.00	3,698.62	4,078.62	2,039.31	7,512.50	3,761.83	1.40	-0.74	0.725
19.00	-44.12	-34.14	0.00	-3,664.44	0.00	3,664.44	4,062.75	2,031.38	7,453.85	3,732.47	1.56	-0.79	0.723
20.00	-43.76	-34.09	0.00	-3,630.30	0.00	3,630.30	4,046.89	2,023.44	7,395.44	3,703.21	1.73	-0.83	0.721
21.00	-43.40	-34.05	0.00	-3,596.21	0.00	3,596.21	4,031.02	2,015.51	7,337.25	3,674.08	1.91	-0.87	0.719
22.00	-43.05	-34.02	0.00	-3,562.16	0.00	3,562.16	4,015.16	2,007.58	7,279.29	3,645.06	2.10	-0.91	0.717
22.50	-42.87	-34.00	0.00	-3,545.15	0.00	3,545.15	4,007.23	2,003.61	7,250.40	3,630.59	2.20	-0.93	0.715
22.50	-42.87	-34.00	0.00	-3,545.15	0.00	3,545.15	4,007.23	2,003.61	7,250.40	3,630.59	2.20	-0.93	0.715
23.00	-42.69	-33.97	0.00	-3,528.15	0.00	3,528.15	3,999.30	1,999.65	7,221.56	3,616.15	2.29	-0.95	0.714
24.00	-42.33	-33.92	0.00	-3,494.18	0.00	3,494.18	3,983.43	1,991.72	7,164.07	3,587.36	2.50	-1.00	0.712
25.00	-41.97	-33.88	0.00	-3,460.26	0.00	3,460.26	3,967.57	1,983.78	7,106.80	3,558.68	2.71	-1.04	0.710
26.00	-41.62	-33.83	0.00	-3,426.39	0.00	3,426.39	3,951.70	1,975.85	7,049.76	3,530.12	2.93	-1.08	0.708
27.00	-41.26	-33.79	0.00	-3,392.55	0.00	3,392.55	3,935.84	1,967.92	6,992.95	3,501.67	3.17	-1.12	0.705
28.00	-40.92	-33.76	0.00	-3,358.76	0.00	3,358.76	3,919.98	1,959.99	6,936.37	3,473.34	3.41	-1.16	0.703
28.50	-40.74	-33.73	0.00	-3,341.88	0.00	3,341.88	3,912.04	1,956.02	6,908.17	3,459.22	3.53	-1.19	0.702
29.00	-40.45	-33.70	0.00	-3,325.02	0.00	3,325.02	3,904.11	1,952.06	6,880.03	3,445.13	3.65	-1.21	0.693
30.00	-39.89	-33.65	0.00	-3,291.32	0.00	3,291.32	3,888.25	1,944.12	6,823.91	3,417.03	3.91	-1.25	0.690
31.00	-39.32	-33.59	0.00	-3,257.67	0.00	3,257.67	3,872.38	1,936.19	6,768.02	3,389.04	4.18	-1.29	0.688
32.00	-38.76	-33.54	0.00	-3,224.08	0.00	3,224.08	3,856.52	1,928.26	6,712.36	3,361.17	4.45	-1.33	0.685
33.00	-38.20	-33.49	0.00	-3,190.54	0.00	3,190.54	3,840.66	1,920.33	6,656.93	3,333.41	4.74	-1.37	0.682
34.00	-37.65	-33.43	0.00	-3,157.05	0.00	3,157.05	3,824.79	1,912.40	6,601.73	3,305.77	5.03	-1.42	0.680
35.00	-37.09	-33.37	0.00	-3,123.63	0.00	3,123.63	3,899.62	1,949.81	6,864.12	3,437.16	5.33	-1.46	0.659
36.00	-36.74	-33.32	0.00	-3,090.25	0.00	3,090.25	3,883.76	1,941.88	6,808.07	3,409.09	5.64	-1.50	0.656
37.00	-36.39	-33.27	0.00	-3,056.93	0.00	3,056.93	3,867.90	1,933.95	6,752.24	3,381.14	5.96	-1.54	0.654
38.00	-36.04	-33.21	0.00	-3,023.67	0.00	3,023.67	3,852.03	1,926.02	6,696.65	3,353.30	6.28	-1.58	0.651
39.00	-35.70	-33.15	0.00	-2,990.46	0.00	2,990.46	3,836.17	1,918.08	6,641.29	3,325.58	6.62	-1.62	0.648
40.00	-35.35	-33.10	0.00	-2,957.31	0.00	2,957.31	3,820.30	1,910.15	6,586.15	3,297.97	6.96	-1.66	0.645
41.00	-35.01	-33.04	0.00	-2,924.21	0.00	2,924.21	3,804.44	1,902.22	6,531.25	3,270.48	7.31	-1.70	0.643
42.00	-34.67	-32.98	0.00	-2,891.17	0.00	2,891.17	3,788.58	1,894.29	6,476.57	3,243.10	7.67	-1.74	0.640
43.00	-34.32	-32.92	0.00	-2,858.19	0.00	2,858.19	3,772.71	1,886.36	6,422.13	3,215.84	8.04	-1.78	0.637
43.00	-34.32	-32.92	0.00	-2,858.19	0.00	2,858.19	3,772.71	1,886.36	6,422.13	3,215.84	8.04	-1.78	0.637
44.00	-33.98	-32.87	0.00	-2,825.26	0.00	2,825.26	3,756.85	1,878.42	6,367.91	3,188.69	8.42	-1.82	0.634
45.00	-33.64	-32.81	0.00	-2,792.40	0.00	2,792.40	3,740.98	1,870.49	6,313.93	3,161.66	8.80	-1.86	0.631
46.00	-33.30	-32.75	0.00	-2,759.59	0.00	2,759.59	3,725.12	1,862.56	6,260.17	3,134.74	9.20	-1.90	0.628

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Load Case: 0.9D + 1.6W 97 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :0.90
Wind Load Factor :1.60

47.00	-32.96	-32.68	0.00	-2,726.85	0.00	2,726.85	3,709.26	1,854.63	6,206.65	3,107.94	9.60	-1.94	0.625
48.00	-32.63	-32.62	0.00	-2,694.16	0.00	2,694.16	3,693.39	1,846.70	6,153.35	3,081.25	10.01	-1.97	0.621
49.00	-32.29	-32.56	0.00	-2,661.54	0.00	2,661.54	3,677.53	1,838.76	6,100.29	3,054.68	10.43	-2.01	0.618
50.00	-31.95	-32.50	0.00	-2,628.98	0.00	2,628.98	3,661.66	1,830.83	6,047.45	3,028.22	10.85	-2.05	0.615
51.00	-31.62	-32.44	0.00	-2,596.48	0.00	2,596.48	3,645.80	1,822.90	5,994.84	3,001.88	11.29	-2.09	0.612
52.00	-31.29	-32.37	0.00	-2,564.05	0.00	2,564.05	3,629.94	1,814.97	5,942.47	2,975.65	11.73	-2.13	0.608
53.00	-30.95	-32.31	0.00	-2,531.68	0.00	2,531.68	3,614.07	1,807.04	5,890.32	2,949.54	12.18	-2.17	0.605
54.00	-30.62	-32.21	0.00	-2,499.37	0.00	2,499.37	3,598.21	1,799.10	5,838.41	2,923.54	12.64	-2.21	0.601
55.00	-30.30	-32.06	0.00	-2,467.16	0.00	2,467.16	3,582.34	1,791.17	5,786.72	2,897.66	13.11	-2.25	0.598
56.00	-29.97	-31.90	0.00	-2,435.10	0.00	2,435.10	3,566.48	1,783.24	5,735.26	2,871.89	13.59	-2.29	0.594
57.00	-29.64	-31.75	0.00	-2,403.20	0.00	2,403.20	3,550.62	1,775.31	5,684.03	2,846.24	14.07	-2.33	0.591
58.00	-29.32	-31.59	0.00	-2,371.46	0.00	2,371.46	3,534.75	1,767.38	5,633.04	2,820.71	14.56	-2.37	0.587
59.00	-28.85	-31.42	0.00	-2,339.87	0.00	2,339.87	3,518.89	1,759.44	5,582.27	2,795.28	15.06	-2.41	0.578
60.00	-28.39	-31.25	0.00	-2,308.45	0.00	2,308.45	3,503.02	1,751.51	5,531.73	2,769.98	15.57	-2.45	0.574
61.00	-27.92	-31.09	0.00	-2,277.20	0.00	2,277.20	3,487.16	1,743.58	5,481.43	2,744.79	16.09	-2.48	0.570
62.00	-27.46	-30.92	0.00	-2,246.11	0.00	2,246.11	3,471.30	1,735.65	5,431.35	2,719.71	16.61	-2.52	0.566
63.00	-27.01	-30.78	0.00	-2,215.20	0.00	2,215.20	3,455.43	1,727.72	5,381.50	2,694.75	17.14	-2.56	0.563
63.50	-26.78	-30.69	0.00	-2,199.81	0.00	2,199.81	3,158.12	1,579.06	5,037.43	2,522.46	17.41	-2.58	0.553
64.00	-26.64	-30.58	0.00	-2,184.46	0.00	2,184.46	3,152.80	1,576.40	5,017.53	2,512.49	17.68	-2.60	0.550
65.00	-26.36	-30.42	0.00	-2,153.88	0.00	2,153.88	3,142.13	1,571.07	4,977.80	2,492.60	18.23	-2.64	0.546
66.00	-26.08	-30.26	0.00	-2,123.45	0.00	2,123.45	3,131.44	1,565.72	4,938.17	2,472.75	18.79	-2.69	0.541
67.00	-25.81	-30.10	0.00	-2,093.19	0.00	2,093.19	3,120.71	1,560.35	4,898.65	2,452.96	19.36	-2.73	0.537
68.00	-25.54	-29.94	0.00	-2,063.09	0.00	2,063.09	3,109.92	1,554.96	4,859.19	2,433.21	19.94	-2.77	0.532
69.00	-25.27	-29.78	0.00	-2,033.15	0.00	2,033.15	3,095.65	1,547.82	4,814.46	2,410.81	20.52	-2.82	0.528
70.00	-24.99	-29.62	0.00	-2,003.37	0.00	2,003.37	3,081.37	1,540.68	4,769.94	2,388.51	21.12	-2.86	0.524
71.00	-24.72	-29.46	0.00	-1,973.75	0.00	1,973.75	3,067.09	1,533.55	4,725.62	2,366.32	21.72	-2.90	0.520
72.00	-24.46	-29.29	0.00	-1,944.30	0.00	1,944.30	3,052.81	1,526.41	4,681.51	2,344.23	22.33	-2.95	0.516
73.00	-24.19	-29.13	0.00	-1,915.00	0.00	1,915.00	3,038.54	1,519.27	4,637.61	2,322.25	22.96	-2.99	0.511
74.00	-23.92	-28.97	0.00	-1,885.87	0.00	1,885.87	3,024.26	1,512.13	4,593.91	2,300.37	23.59	-3.03	0.507
75.00	-23.65	-28.80	0.00	-1,856.91	0.00	1,856.91	3,009.98	1,504.99	4,550.42	2,278.59	24.23	-3.08	0.503
76.00	-23.39	-28.64	0.00	-1,828.11	0.00	1,828.11	2,995.70	1,497.85	4,507.14	2,256.92	24.88	-3.12	0.499
77.00	-23.13	-28.47	0.00	-1,799.47	0.00	1,799.47	2,981.43	1,490.71	4,464.06	2,235.35	25.53	-3.16	0.494
78.00	-22.86	-28.31	0.00	-1,771.00	0.00	1,771.00	2,967.15	1,483.57	4,421.19	2,213.88	26.20	-3.20	0.490
79.00	-22.60	-28.14	0.00	-1,742.70	0.00	1,742.70	2,952.87	1,476.44	4,378.53	2,192.52	26.88	-3.24	0.486
80.00	-22.34	-27.97	0.00	-1,714.56	0.00	1,714.56	2,938.59	1,469.30	4,336.07	2,171.26	27.56	-3.29	0.481
81.00	-22.08	-27.81	0.00	-1,686.58	0.00	1,686.58	2,924.32	1,462.16	4,293.83	2,150.10	28.25	-3.33	0.477
82.00	-21.82	-27.64	0.00	-1,658.78	0.00	1,658.78	2,910.04	1,455.02	4,251.78	2,129.05	28.95	-3.37	0.473
83.00	-21.56	-27.47	0.00	-1,631.13	0.00	1,631.13	2,895.76	1,447.88	4,209.95	2,108.10	29.66	-3.41	0.468
84.00	-21.30	-27.31	0.00	-1,603.66	0.00	1,603.66	2,881.48	1,440.74	4,168.32	2,087.26	30.38	-3.45	0.464
85.00	-21.05	-27.14	0.00	-1,576.36	0.00	1,576.36	2,867.21	1,433.60	4,126.90	2,066.52	31.11	-3.49	0.459
86.00	-20.79	-26.97	0.00	-1,549.22	0.00	1,549.22	2,852.93	1,426.46	4,085.69	2,045.88	31.84	-3.53	0.455
87.00	-20.54	-26.80	0.00	-1,522.25	0.00	1,522.25	2,838.65	1,419.33	4,044.68	2,025.35	32.59	-3.57	0.450
88.00	-20.28	-26.63	0.00	-1,495.44	0.00	1,495.44	2,824.37	1,412.19	4,003.88	2,004.91	33.34	-3.61	0.445
89.00	-19.93	-26.45	0.00	-1,468.81	0.00	1,468.81	2,810.09	1,405.05	3,963.28	1,984.59	34.10	-3.65	0.435
90.00	-19.57	-26.28	0.00	-1,442.36	0.00	1,442.36	2,795.82	1,397.91	3,922.90	1,964.36	34.87	-3.69	0.430
91.00	-19.21	-26.10	0.00	-1,416.08	0.00	1,416.08	2,781.54	1,390.77	3,882.72	1,944.24	35.65	-3.73	0.426
92.00	-18.86	-25.92	0.00	-1,389.98	0.00	1,389.98	2,767.26	1,383.63	3,842.74	1,924.23	36.43	-3.77	0.421
93.00	-18.51	-25.74	0.00	-1,364.07	0.00	1,364.07	2,292.76	1,146.38	3,238.31	1,621.56	37.23	-3.81	0.463
94.00	-18.28	-25.57	0.00	-1,338.33	0.00	1,338.33	2,284.25	1,142.13	3,209.75	1,607.26	38.03	-3.85	0.457
95.00	-18.05	-25.40	0.00	-1,312.76	0.00	1,312.76	2,275.71	1,137.86	3,181.27	1,593.00	38.84	-3.89	0.451
96.00	-17.82	-25.23	0.00	-1,287.36	0.00	1,287.36	2,267.14	1,133.57	3,152.86	1,578.78	39.66	-3.93	0.445
97.00	-17.59	-25.06	0.00	-1,262.14	0.00	1,262.14	2,258.54	1,129.27	3,124.54	1,564.59	40.48	-3.97	0.439
98.00	-17.36	-24.88	0.00	-1,237.08	0.00	1,237.08	2,249.90	1,124.95	3,096.30	1,550.45	41.32	-4.01	0.433
99.00	-17.14	-24.71	0.00	-1,212.20	0.00	1,212.20	2,241.24	1,120.62	3,068.14	1,536.35	42.16	-4.05	0.427
100.00	-16.91	-24.54	0.00	-1,187.48	0.00	1,187.48	2,232.54	1,116.27	3,040.06	1,522.29	43.01	-4.09	0.420
101.00	-16.69	-24.37	0.00	-1,162.94	0.00	1,162.94	2,223.81	1,111.90	3,012.06	1,508.27	43.87	-4.12	0.414
102.00	-16.47	-24.20	0.00	-1,138.57	0.00	1,138.57	2,215.04	1,107.52	2,984.14	1,494.29	44.74	-4.16	0.408

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Load Case: 0.9D + 1.6W 97 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :0.90
Wind Load Factor :1.60

103.00	-16.25	-24.03	0.00	-1,114.38	0.00	1,114.38	2,206.25	1,103.12	2,956.31	1,480.35	45.62	-4.20	0.402
104.00	-16.02	-23.85	0.00	-1,090.35	0.00	1,090.35	2,197.42	1,098.71	2,928.57	1,466.46	46.50	-4.24	0.395
105.00	-15.80	-23.68	0.00	-1,066.50	0.00	1,066.50	2,188.56	1,094.28	2,900.91	1,452.61	47.39	-4.28	0.389
105.00	-15.80	-23.68	0.00	-1,066.50	0.00	1,066.50	2,188.56	1,094.28	2,900.91	1,452.61	47.39	-4.28	0.742
106.00	-15.64	-23.52	0.00	-1,042.81	0.00	1,042.81	2,179.67	1,089.83	2,873.33	1,438.80	48.29	-4.31	0.732
107.00	-15.47	-23.36	0.00	-1,019.30	0.00	1,019.30	2,170.74	1,085.37	2,845.85	1,425.04	49.20	-4.38	0.723
108.00	-15.29	-23.20	0.00	-995.94	0.00	995.94	2,161.78	1,080.89	2,818.44	1,411.32	50.13	-4.45	0.713
109.00	-15.12	-23.04	0.00	-972.73	0.00	972.73	2,150.55	1,075.28	2,788.22	1,396.18	51.07	-4.52	0.704
110.00	-14.96	-22.88	0.00	-949.69	0.00	949.69	2,138.65	1,069.33	2,757.31	1,380.70	52.02	-4.59	0.695
111.00	-14.79	-22.76	0.00	-926.81	0.00	926.81	2,126.76	1,063.38	2,726.56	1,365.31	52.99	-4.66	0.686
112.00	-14.61	-22.69	0.00	-904.05	0.00	904.05	2,114.86	1,057.43	2,695.99	1,350.00	53.97	-4.73	0.677
113.00	-14.44	-22.59	0.00	-881.36	0.00	881.36	2,102.96	1,051.48	2,665.59	1,334.78	54.97	-4.80	0.668
114.00	-14.28	-22.44	0.00	-858.77	0.00	858.77	2,091.06	1,045.53	2,635.36	1,319.64	55.98	-4.86	0.658
115.00	-14.11	-22.29	0.00	-836.33	0.00	836.33	2,079.16	1,039.58	2,605.31	1,304.59	57.01	-4.93	0.648
116.00	-13.95	-22.17	0.00	-814.04	0.00	814.04	2,067.27	1,033.63	2,575.43	1,289.63	58.04	-5.00	0.638
116.50	-13.87	-22.09	0.00	-802.95	0.00	802.95	2,061.32	1,030.66	2,560.55	1,282.18	58.57	-5.03	0.633
117.00	-13.75	-21.98	0.00	-791.91	0.00	791.91	2,055.37	1,027.68	2,545.72	1,274.75	59.10	-5.06	0.628
118.00	-13.51	-21.82	0.00	-769.93	0.00	769.93	2,043.47	1,021.73	2,516.18	1,259.96	60.16	-5.13	0.618
119.00	-13.28	-21.66	0.00	-748.11	0.00	748.11	2,031.57	1,015.79	2,486.81	1,245.26	61.24	-5.19	0.608
120.00	-13.05	-21.49	0.00	-726.46	0.00	726.46	2,019.67	1,009.84	2,457.62	1,230.64	62.33	-5.25	0.597
121.00	-12.82	-21.33	0.00	-704.96	0.00	704.96	1,562.89	781.45	1,930.84	966.86	63.44	-5.31	0.738
122.00	-12.68	-21.18	0.00	-683.63	0.00	683.63	1,556.55	778.28	1,911.74	957.29	64.56	-5.37	0.723
123.00	-12.53	-21.03	0.00	-662.45	0.00	662.45	1,550.18	775.09	1,892.68	947.75	65.69	-5.45	0.708
124.00	-12.39	-20.88	0.00	-641.42	0.00	641.42	1,543.77	771.89	1,873.68	938.23	66.84	-5.52	0.692
125.00	-12.25	-20.73	0.00	-620.54	0.00	620.54	1,537.34	768.67	1,854.73	928.74	68.00	-5.59	0.677
126.00	-12.11	-20.57	0.00	-599.82	0.00	599.82	1,530.87	765.43	1,835.84	919.28	69.18	-5.65	0.661
127.00	-9.82	-16.11	0.00	-579.24	0.00	579.24	1,524.37	762.18	1,817.00	909.85	70.37	-5.72	0.644
128.00	-9.70	-15.96	0.00	-563.13	0.00	563.13	1,517.84	758.92	1,798.22	900.45	71.57	-5.79	0.632
129.00	-9.59	-15.81	0.00	-547.17	0.00	547.17	1,511.27	755.64	1,779.50	891.07	72.79	-5.85	0.621
130.00	-9.47	-15.65	0.00	-531.37	0.00	531.37	1,504.67	752.34	1,760.83	881.72	74.02	-5.92	0.609
131.00	-9.35	-15.50	0.00	-515.71	0.00	515.71	1,498.04	749.02	1,742.22	872.40	75.26	-5.98	0.598
132.00	-9.24	-15.35	0.00	-500.21	0.00	500.21	1,491.38	745.69	1,723.67	863.12	76.52	-6.05	0.586
133.00	-9.12	-15.20	0.00	-484.87	0.00	484.87	1,484.69	742.34	1,705.18	853.86	77.79	-6.11	0.574
134.00	-9.01	-15.04	0.00	-469.67	0.00	469.67	1,477.96	738.98	1,686.75	844.63	79.08	-6.17	0.563
135.00	-8.90	-14.89	0.00	-454.63	0.00	454.63	1,471.20	735.60	1,668.38	835.43	80.37	-6.23	0.551
136.00	-8.79	-14.74	0.00	-439.74	0.00	439.74	1,464.41	732.21	1,650.07	826.26	81.68	-6.29	0.539
137.00	-8.68	-14.59	0.00	-425.00	0.00	425.00	1,457.59	728.80	1,631.83	817.13	83.00	-6.35	0.526
138.00	-8.57	-14.44	0.00	-410.41	0.00	410.41	1,450.74	725.37	1,613.64	808.02	84.34	-6.41	0.514
139.00	-8.46	-14.28	0.00	-395.97	0.00	395.97	1,443.85	721.92	1,595.53	798.95	85.68	-6.47	0.502
140.00	-8.35	-14.13	0.00	-381.69	0.00	381.69	1,436.93	718.47	1,577.47	789.91	87.04	-6.52	0.489
141.00	-8.24	-13.98	0.00	-367.56	0.00	367.56	1,429.98	714.99	1,559.48	780.90	88.41	-6.58	0.477
142.00	-8.14	-13.83	0.00	-353.58	0.00	353.58	1,423.00	711.50	1,541.56	771.93	89.79	-6.63	0.464
143.00	-8.03	-13.68	0.00	-339.75	0.00	339.75	1,415.98	707.99	1,523.71	762.99	91.18	-6.69	0.451
144.00	-7.93	-13.53	0.00	-326.07	0.00	326.07	1,408.93	704.47	1,505.92	754.08	92.59	-6.74	0.438
145.00	-7.82	-13.37	0.00	-312.54	0.00	312.54	1,401.85	700.93	1,488.20	745.20	94.00	-6.79	0.425
146.00	-6.69	-11.28	0.00	-299.16	0.00	299.16	1,394.74	697.37	1,470.54	736.36	95.43	-6.84	0.411
147.00	-6.59	-11.21	0.00	-287.89	0.00	287.89	1,387.60	693.80	1,452.96	727.56	96.86	-6.89	0.401
148.00	-6.50	-11.14	0.00	-276.68	0.00	276.68	1,379.83	689.92	1,434.84	718.48	98.31	-6.94	0.390
149.00	-6.40	-11.07	0.00	-265.54	0.00	265.54	1,370.32	685.16	1,415.01	708.56	99.76	-6.98	0.380
150.00	-6.26	-11.00	0.00	-254.47	0.00	254.47	1,360.80	680.40	1,395.33	698.70	101.22	-7.03	0.369
151.00	-6.12	-10.92	0.00	-243.47	0.00	243.47	1,351.28	675.64	1,375.78	688.91	102.70	-7.08	0.358
152.00	-5.98	-10.86	0.00	-232.55	0.00	232.55	1,341.76	670.88	1,356.37	679.19	104.18	-7.12	0.347
152.50	-5.92	-10.82	0.00	-227.12	0.00	227.12	942.35	471.17	968.66	485.05	104.93	-7.14	0.475
153.00	-5.88	-10.78	0.00	-221.71	0.00	221.71	940.20	470.10	963.05	482.24	105.67	-7.16	0.467
154.00	-5.80	-10.71	0.00	-210.93	0.00	210.93	935.87	467.94	951.84	476.63	107.18	-7.22	0.449
155.00	-5.72	-10.65	0.00	-200.22	0.00	200.22	931.51	465.76	940.66	471.03	108.69	-7.27	0.432
156.00	-5.64	-10.58	0.00	-189.57	0.00	189.57	927.12	463.56	929.51	465.45	110.21	-7.32	0.414

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Load Case: 0.9D + 1.6W 97 mph with No Ice (Reduced DL) 35 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :0.90
Wind Load Factor :1.60

157.00	-5.56	-10.52	0.00	-178.99	0.00	178.99	922.70	461.35	918.40	459.88	111.75	-7.37	0.396
158.00	-5.48	-10.45	0.00	-168.48	0.00	168.48	918.25	459.12	907.31	454.33	113.29	-7.41	0.377
159.00	-5.41	-10.38	0.00	-158.03	0.00	158.03	913.76	456.88	896.26	448.80	114.84	-7.46	0.359
160.00	-5.33	-10.32	0.00	-147.64	0.00	147.64	909.24	454.62	885.24	443.28	116.41	-7.50	0.339
161.00	-5.26	-10.25	0.00	-137.32	0.00	137.32	904.69	452.35	874.26	437.78	117.98	-7.54	0.320
162.00	-5.19	-10.19	0.00	-127.07	0.00	127.07	900.11	450.06	863.31	432.30	119.56	-7.58	0.300
163.00	-5.11	-10.12	0.00	-116.88	0.00	116.88	895.50	447.75	852.40	426.83	121.14	-7.61	0.280
164.00	-5.04	-10.06	0.00	-106.76	0.00	106.76	890.85	445.42	841.52	421.39	122.74	-7.65	0.260
165.00	-4.97	-9.99	0.00	-96.70	0.00	96.70	886.17	443.09	830.68	415.96	124.34	-7.68	0.239
166.00	-4.90	-9.93	0.00	-86.70	0.00	86.70	881.46	440.73	819.88	410.55	125.95	-7.71	0.217
167.00	-2.41	-5.42	0.00	-76.78	0.00	76.78	876.72	438.36	809.12	405.16	127.56	-7.74	0.192
168.00	-2.36	-5.36	0.00	-71.35	0.00	71.35	871.94	435.97	798.40	399.79	129.18	-7.76	0.181
169.00	-2.30	-5.29	0.00	-66.00	0.00	66.00	867.13	433.57	787.71	394.44	130.80	-7.78	0.170
170.00	-2.25	-5.23	0.00	-60.70	0.00	60.70	862.29	431.15	777.07	389.11	132.43	-7.81	0.159
171.00	-2.19	-4.67	0.00	-55.47	0.00	55.47	857.42	428.71	766.47	383.80	134.06	-7.83	0.147
172.00	-2.14	-4.61	0.00	-50.80	0.00	50.80	852.52	426.26	755.91	378.52	135.70	-7.85	0.137
173.00	-2.09	-4.55	0.00	-46.19	0.00	46.19	847.58	423.79	745.39	373.25	137.34	-7.86	0.126
174.00	-2.04	-4.49	0.00	-41.64	0.00	41.64	842.61	421.31	734.92	368.01	138.98	-7.88	0.116
175.00	-1.99	-4.43	0.00	-37.15	0.00	37.15	837.61	418.81	724.49	362.78	140.63	-7.90	0.105
176.00	-1.95	-4.37	0.00	-32.72	0.00	32.72	832.58	416.29	714.11	357.59	142.28	-7.91	0.094
177.00	-1.90	-4.31	0.00	-28.36	0.00	28.36	827.51	413.76	703.77	352.41	143.93	-7.92	0.083
178.00	-1.85	-4.25	0.00	-24.05	0.00	24.05	822.42	411.21	693.48	347.26	145.59	-7.93	0.072
179.00	-1.81	-4.19	0.00	-19.81	0.00	19.81	817.29	408.64	683.23	342.12	147.24	-7.94	0.060
180.00	-1.76	-4.13	0.00	-15.62	0.00	15.62	812.13	406.06	673.04	337.02	148.90	-7.95	0.049
181.00	-1.72	-4.07	0.00	-11.49	0.00	11.49	806.93	403.47	662.89	331.94	150.56	-7.96	0.037
182.00	-1.67	-4.01	0.00	-7.42	0.00	7.42	801.71	400.85	652.79	326.88	152.23	-7.96	0.025
183.00	0.00	-3.74	0.00	-3.42	0.00	3.42	796.45	398.23	642.74	321.85	153.89	-7.97	0.011

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Load Case: 1.2D + 1.0Di + 1.0Wi — 50 mph with 0.75 in Radial Ice — 34 Iterations

Gust Response Factor :1.10 — Ice Dead Load Factor 1.00 — Wind Importance Factor 1.00
Dead Load Factor :1.20 — Ice Importance Factor :1.00
Wind Load Factor :1.00

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		12.0	0.0					0.0	0.0	12.0	0.0	0.0	0.0
1.00		24.0	372.4					0.0	91.1	24.0	463.5	0.0	0.0
2.00		24.0	378.2					0.0	92.3	24.0	470.5	0.0	0.0
3.00		24.0	380.5					0.0	92.9	24.0	473.4	0.0	0.0
4.00		23.9	381.6					0.0	93.3	23.9	474.9	0.0	0.0
5.00		23.9	382.1					0.0	93.7	23.9	475.8	0.0	0.0
6.00		23.8	382.3					0.0	234.5	23.8	616.8	0.0	0.0
7.00	Appertunance(s)	23.7	382.2	17.5	0.0	0.0	23.5	0.0	235.8	41.2	641.5	0.0	0.0
8.00		23.7	381.9					0.0	237.0	23.7	619.0	0.0	0.0
9.00		23.6	381.5					0.0	238.1	23.6	619.6	0.0	0.0
10.00		23.5	381.0					0.0	239.0	23.5	620.0	0.0	0.0
11.00		23.5	380.4					0.0	239.9	23.5	620.3	0.0	0.0
12.00		23.4	379.7					0.0	240.7	23.4	620.4	0.0	0.0
13.00		23.3	379.0					0.0	241.4	23.3	620.4	0.0	0.0
14.00		23.2	378.2					0.0	242.1	23.2	620.3	0.0	0.0
15.00		23.2	377.4					0.0	242.8	23.2	620.1	0.0	0.0
16.00		23.1	376.5					0.0	243.4	23.1	619.9	0.0	0.0
17.00		23.0	375.6					0.0	243.9	23.0	619.5	0.0	0.0
18.00		22.9	374.7					0.0	244.5	22.9	619.1	0.0	0.0
19.00		22.9	373.7					0.0	245.0	22.9	618.7	0.0	0.0
20.00		22.8	372.7					0.0	245.5	22.8	618.2	0.0	0.0
21.00		22.7	371.7					0.0	246.0	22.7	617.7	0.0	0.0
22.00		17.0	370.6					0.0	246.4	17.0	617.1	0.0	0.0
22.50	Reinf. Top Reinf	11.3	185.0					0.0	123.4	11.3	308.3	0.0	0.0
23.00		16.9	184.7					0.0	123.5	16.9	308.2	0.0	0.0
24.00		22.5	368.5					0.0	247.3	22.5	615.8	0.0	0.0
25.00		22.4	367.4					0.0	247.7	22.4	615.1	0.0	0.0
26.00		22.3	366.3					0.0	248.1	22.3	614.4	0.0	0.0
27.00		22.2	365.2					0.0	248.5	22.2	613.6	0.0	0.0
28.00		16.6	364.0					0.0	248.8	16.6	612.9	0.0	0.0
28.50	Bot - Section 2	11.2	181.6					0.0	124.6	11.2	306.2	0.0	0.0
29.00		16.9	325.1					0.0	124.6	16.9	449.8	0.0	0.0
30.00		22.5	648.4					0.0	249.5	22.5	898.0	0.0	0.0
31.00		22.6	646.1					0.0	249.9	22.6	896.0	0.0	0.0
32.00		22.8	643.8					0.0	250.2	22.8	894.0	0.0	0.0
33.00		22.9	641.5					0.0	250.5	22.9	892.0	0.0	0.0
34.00		23.0	639.2					0.0	250.8	23.0	890.0	0.0	0.0
35.00	Top - Section 1	23.1	636.8					0.0	251.1	23.1	888.0	0.0	0.0
36.00		23.2	362.9					0.0	251.4	23.2	614.3	0.0	0.0
37.00		23.3	361.7					0.0	251.7	23.3	613.4	0.0	0.0
38.00		23.4	360.5					0.0	252.0	23.4	612.4	0.0	0.0
39.00		23.5	359.2					0.0	252.2	23.5	611.5	0.0	0.0
40.00		23.6	358.0					0.0	252.5	23.6	610.5	0.0	0.0
41.00		23.7	356.7					0.0	252.8	23.7	609.5	0.0	0.0
42.00		23.7	355.5					0.0	253.0	23.7	608.5	0.0	0.0
43.00	Reinf. Top Reinf	23.8	354.2					0.0	253.3	23.8	607.5	0.0	0.0
44.00		23.9	352.9					0.0	253.5	23.9	606.5	0.0	0.0
45.00		23.9	351.7					0.0	253.8	23.9	605.4	0.0	0.0

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice 34 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor 1.00 Wind Importance Factor 1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

46.00		24.0	350.4	0.0	254.0	24.0	604.4	0.0	0.0
47.00		24.0	349.1	0.0	254.2	24.0	603.3	0.0	0.0
48.00		24.1	347.8	0.0	254.5	24.1	602.3	0.0	0.0
49.00		24.2	346.5	0.0	254.7	24.2	601.2	0.0	0.0
50.00		24.2	345.2	0.0	254.9	24.2	600.1	0.0	0.0
51.00		24.2	343.9	0.0	255.1	24.2	599.0	0.0	0.0
52.00		24.3	342.6	0.0	255.3	24.3	597.9	0.0	0.0
53.00		24.3	341.3	0.0	255.5	24.3	596.8	0.0	0.0
54.00		24.4	340.0	0.0	255.7	24.4	595.7	0.0	0.0
55.00		24.4	338.7	11.5	255.9	35.9	594.6	0.0	0.0
56.00		24.4	337.3	11.6	256.1	36.0	593.5	0.0	0.0
57.00		24.4	336.0	11.7	256.3	36.1	592.3	0.0	0.0
58.00	Bot - Section 3	24.7	334.7	11.8	256.5	36.4	591.2	0.0	0.0
59.00		24.9	528.1	11.8	256.7	36.8	784.8	0.0	0.0
60.00		24.9	525.9	11.9	256.9	36.8	782.8	0.0	0.0
61.00		25.0	523.7	12.0	257.1	36.9	780.8	0.0	0.0
62.00		25.0	521.5	12.0	257.3	37.0	778.8	0.0	0.0
63.00		18.7	519.3	12.1	257.5	30.9	776.8	0.0	0.0
63.50	Top - Section 2	12.5	258.9	6.1	128.8	18.6	387.7	0.0	0.0
64.00		18.8	135.3	6.1	128.8	24.9	264.1	0.0	0.0
65.00		25.0	269.7	12.2	257.8	37.3	527.5	0.0	0.0
66.00		25.0	268.6	12.3	258.0	37.3	526.6	0.0	0.0
67.00		25.0	267.6	12.4	258.1	37.4	525.7	0.0	0.0
68.00		25.0	266.5	12.4	258.3	37.5	524.8	0.0	0.0
69.00		25.0	265.4	12.5	258.5	37.5	523.9	0.0	0.0
70.00		25.0	264.3	12.6	258.6	37.6	523.0	0.0	0.0
71.00		25.0	263.2	12.6	258.8	37.7	522.1	0.0	0.0
72.00		25.0	262.2	12.7	259.0	37.7	521.1	0.0	0.0
73.00		25.0	261.1	12.7	259.1	37.8	520.2	0.0	0.0
74.00		25.0	260.0	12.8	259.3	37.8	519.3	0.0	0.0
75.00		25.0	258.9	12.9	259.4	37.9	518.3	0.0	0.0
76.00		25.0	257.8	12.9	259.6	37.9	517.4	0.0	0.0
77.00		25.0	256.7	13.0	259.7	38.0	516.4	0.0	0.0
78.00		25.0	255.6	13.0	259.9	38.0	515.5	0.0	0.0
79.00		25.0	254.5	13.1	260.0	38.1	514.5	0.0	0.0
80.00		24.9	253.4	13.2	260.2	38.1	513.5	0.0	0.0
81.00		24.9	252.3	13.2	260.3	38.1	512.6	0.0	0.0
82.00		24.9	251.2	13.3	260.5	38.2	511.6	0.0	0.0
83.00		24.9	250.0	13.3	260.6	38.2	510.6	0.0	0.0
84.00		24.9	248.9	13.4	260.7	38.2	509.7	0.0	0.0
85.00		24.8	247.8	13.4	260.9	38.3	508.7	0.0	0.0
86.00		24.8	246.7	13.5	261.0	38.3	507.7	0.0	0.0
87.00		24.8	245.6	13.6	261.1	38.3	506.7	0.0	0.0
88.00	Bot - Section 4	24.9	244.5	13.6	261.3	38.6	505.7	0.0	0.0
89.00		25.1	387.2	13.7	261.4	38.8	648.6	0.0	0.0
90.00		25.1	385.4	13.7	261.5	38.8	646.9	0.0	0.0
91.00		25.1	383.5	13.8	261.7	38.8	645.2	0.0	0.0
92.00		25.0	381.7	13.8	261.8	38.8	643.5	0.0	0.0
93.00	Top - Section 3	25.0	379.9	13.9	261.9	38.9	641.8	0.0	0.0
94.00		24.9	214.5	13.9	262.1	38.9	476.6	0.0	0.0
95.00		24.9	213.5	14.0	262.2	38.9	475.7	0.0	0.0
96.00		24.9	212.6	14.0	262.3	38.9	474.9	0.0	0.0
97.00		24.8	211.6	14.1	262.4	38.9	474.0	0.0	0.0
98.00		24.8	210.6	14.1	262.6	38.9	473.1	0.0	0.0
99.00		24.7	209.6	14.2	262.7	38.9	472.2	0.0	0.0
100.00		24.7	208.6	14.2	262.8	38.9	471.4	0.0	0.0
101.00		24.7	207.6	14.3	262.9	38.9	470.5	0.0	0.0

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice 34 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor 1.00 Wind Importance Factor 1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

102.00		24.6	206.6					14.3	263.0	38.9	469.6	0.0	0.0
103.00		24.6	205.6					14.4	263.1	38.9	468.7	0.0	0.0
104.00		24.5	204.6					14.4	263.3	38.9	467.8	0.0	0.0
105.00	Reinf. Top	24.5	203.6					14.5	263.4	38.9	466.9	0.0	0.0
106.00		24.4	202.6					14.5	183.3	38.9	385.9	0.0	0.0
107.00		24.4	201.6					14.6	183.4	38.9	385.0	0.0	0.0
108.00		24.3	200.5					14.6	183.6	38.9	384.1	0.0	0.0
109.00		24.3	199.5					14.7	183.7	38.9	383.2	0.0	0.0
110.00		24.2	198.5					14.7	183.8	38.9	382.3	0.0	0.0
111.00		24.1	197.5					14.0	179.8	38.1	377.3	0.0	0.0
112.00		24.1	196.5					0.0	165.2	24.1	361.7	0.0	0.0
113.00		24.0	195.5					0.0	165.3	24.0	360.8	0.0	0.0
114.00		24.0	194.5					11.3	165.4	35.3	359.9	0.0	0.0
115.00		23.9	193.5					11.4	165.5	35.3	358.9	0.0	0.0
116.00		17.9	192.4					11.4	165.6	29.3	358.0	0.0	0.0
116.50	Bot - Section 5	12.0	95.9					5.7	82.8	17.7	178.7	0.0	0.0
117.00		18.1	146.1					5.7	82.8	23.8	228.9	0.0	0.0
118.00		24.1	290.9					11.5	165.8	35.5	456.7	0.0	0.0
119.00		24.0	289.3					11.5	165.8	35.5	455.2	0.0	0.0
120.00		23.9	287.7					11.5	165.9	35.5	453.7	0.0	0.0
121.00	Top - Section 4	23.9	286.1					11.6	166.0	35.4	452.2	0.0	0.0
122.00		23.8	165.4					11.6	166.1	35.4	331.5	0.0	0.0
123.00		23.7	164.5					11.6	166.2	35.4	330.7	0.0	0.0
124.00		23.7	163.6					11.7	166.3	35.3	329.9	0.0	0.0
125.00		23.6	162.7					11.7	166.3	35.3	329.1	0.0	0.0
126.00		23.5	161.8					11.7	166.4	35.3	328.2	0.0	0.0
127.00	Appertunance(s)	23.5	160.9	910.0	0.0	0.0	7,143.1	11.8	166.5	945.2	7,470.5	0.0	0.0
128.00		23.4	160.1					11.8	149.1	35.2	309.2	0.0	0.0
129.00		23.3	159.2					11.8	149.2	35.1	308.4	0.0	0.0
130.00		23.3	158.3					11.9	149.3	35.1	307.5	0.0	0.0
131.00		23.2	157.4					11.9	149.3	35.1	306.7	0.0	0.0
132.00		23.1	156.5					11.9	149.4	35.0	305.9	0.0	0.0
133.00		23.0	155.6					11.9	149.5	35.0	305.1	0.0	0.0
134.00		23.0	154.7					12.0	149.6	34.9	304.3	0.0	0.0
135.00		22.9	153.8					12.0	149.7	34.9	303.5	0.0	0.0
136.00		22.8	152.9					12.0	149.7	34.8	302.6	0.0	0.0
137.00		22.7	152.0					12.1	149.8	34.8	301.8	0.0	0.0
138.00		22.6	151.1					12.1	149.9	34.7	301.0	0.0	0.0
139.00		22.6	150.2					12.1	150.0	34.7	300.2	0.0	0.0
140.00		22.5	149.3					12.2	150.0	34.6	299.4	0.0	0.0
141.00		22.4	148.4					12.2	150.1	34.6	298.5	0.0	0.0
142.00		22.3	147.5					12.2	150.2	34.5	297.7	0.0	0.0
143.00		22.2	146.6					12.3	150.3	34.5	296.9	0.0	0.0
144.00		22.1	145.7					12.3	150.3	34.4	296.0	0.0	0.0
145.00	Appertunance(s)	22.1	144.8	2.2	0.0	0.0	32.2	12.3	150.4	36.5	327.4	0.0	0.0
146.00	Appertunance(s)	22.0	143.9	506.8	0.0	0.0	2,843.2	12.3	150.5	541.1	3,137.6	0.0	0.0
147.00		21.9	143.0					0.0	89.3	21.9	232.3	0.0	0.0
148.00		21.8	142.1					0.0	89.4	21.8	231.5	0.0	0.0
149.00	Bot - Section 6	21.9	141.2					0.0	89.4	21.9	230.6	0.0	0.0
150.00		21.9	203.2					0.0	89.4	21.9	292.6	0.0	0.0
151.00		21.8	201.8					0.0	89.5	21.8	291.3	0.0	0.0
152.00		16.3	200.5					0.0	89.5	16.3	290.0	0.0	0.0
152.50	Top - Section 5	10.8	99.8					0.0	44.8	10.8	144.6	0.0	0.0
153.00		16.2	59.7					0.0	44.8	16.2	104.5	0.0	0.0
154.00		21.5	118.8					0.0	89.6	21.5	208.4	0.0	0.0
155.00		21.5	118.0					0.0	89.6	21.5	207.6	0.0	0.0
156.00		21.4	117.2					0.0	89.7	21.4	206.9	0.0	0.0

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice 34 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor 1.00 Wind Importance Factor 1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

157.00		21.3	116.5					0.0	89.7	21.3	206.2	0.0	0.0
158.00		21.2	115.7					0.0	89.7	21.2	205.4	0.0	0.0
159.00		21.1	114.9					0.0	89.8	21.1	204.7	0.0	0.0
160.00		21.0	114.2					0.0	89.8	21.0	204.0	0.0	0.0
161.00		20.9	113.4					0.0	89.8	20.9	203.2	0.0	0.0
162.00		20.8	112.6					0.0	89.9	20.8	202.5	0.0	0.0
163.00		20.7	111.8					0.0	89.9	20.7	201.8	0.0	0.0
164.00		20.6	111.1					0.0	90.0	20.6	201.0	0.0	0.0
165.00		20.5	110.3					0.0	90.0	20.5	200.3	0.0	0.0
166.00		20.4	109.5					0.0	90.0	20.4	199.5	0.0	0.0
167.00	Appertunance(s)	20.3	108.7	933.0	0.0	0.0	7,816.0	0.0	90.1	953.3	8,014.8	0.0	0.0
168.00		20.2	108.0					0.0	73.7	20.2	181.6	0.0	0.0
169.00		20.1	107.2					0.0	73.7	20.1	180.9	0.0	0.0
170.00		20.0	106.4					0.0	73.7	20.0	180.1	0.0	0.0
171.00	Appertunance(s)	19.9	105.6	101.0	0.0	0.0	453.9	0.0	73.8	120.9	633.3	0.0	0.0
172.00		19.8	104.8					0.0	45.8	19.8	150.6	0.0	0.0
173.00		19.7	104.1					0.0	45.8	19.7	149.9	0.0	0.0
174.00		19.6	103.3					0.0	45.8	19.6	149.1	0.0	0.0
175.00		19.5	102.5					0.0	45.8	19.5	148.3	0.0	0.0
176.00		19.4	101.7					0.0	45.9	19.4	147.6	0.0	0.0
177.00		19.3	100.9					0.0	45.9	19.3	146.8	0.0	0.0
178.00		19.2	100.2					0.0	45.9	19.2	146.0	0.0	0.0
179.00		19.1	99.4					0.0	45.9	19.1	145.3	0.0	0.0
180.00		19.0	98.6					0.0	45.9	19.0	144.5	0.0	0.0
181.00		18.9	97.8					0.0	46.0	18.9	143.8	0.0	0.0
182.00		18.7	97.0					0.0	46.0	18.7	143.0	0.0	0.0
183.00	Appertunance(s)	9.3	96.2	847.7	0.0	692.6	5,626.8	0.0	46.0	857.0	5,769.1	0.0	0.0
								Totals:		8,713.37	107,523.	0.00	0.00

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice 34 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor 1.00 Wind Importance Factor 1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-107.52	-8.71	0.00	-1,135.61	0.00	1,135.61	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.216
1.00	-107.06	-8.71	0.00	-1,126.90	0.00	1,126.90	4,348.30	2,174.15	8,544.66	4,278.68	0.00	-0.01	0.216
2.00	-106.59	-8.70	0.00	-1,118.20	0.00	1,118.20	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.02	0.215
3.00	-106.11	-8.70	0.00	-1,109.50	0.00	1,109.50	4,316.57	2,158.29	8,419.78	4,216.15	0.01	-0.03	0.215
4.00	-105.63	-8.69	0.00	-1,100.80	0.00	1,100.80	4,300.71	2,150.36	8,357.68	4,185.05	0.02	-0.04	0.214
5.00	-105.16	-8.69	0.00	-1,092.11	0.00	1,092.11	4,284.85	2,142.42	8,295.82	4,154.08	0.03	-0.05	0.214
6.00	-104.54	-8.68	0.00	-1,083.42	0.00	1,083.42	4,268.98	2,134.49	8,234.19	4,123.21	0.04	-0.06	0.214
7.00	-103.89	-8.66	0.00	-1,074.74	0.00	1,074.74	4,253.12	2,126.56	8,172.78	4,092.46	0.06	-0.08	0.213
8.00	-103.27	-8.66	0.00	-1,066.08	0.00	1,066.08	4,237.26	2,118.63	8,111.60	4,061.83	0.07	-0.09	0.213
9.00	-102.65	-8.65	0.00	-1,057.42	0.00	1,057.42	4,221.39	2,110.70	8,050.66	4,031.31	0.09	-0.10	0.212
10.00	-102.03	-8.65	0.00	-1,048.77	0.00	1,048.77	4,205.53	2,102.76	7,989.95	4,000.91	0.11	-0.11	0.212
11.00	-101.41	-8.64	0.00	-1,040.12	0.00	1,040.12	4,189.66	2,094.83	7,929.46	3,970.62	0.14	-0.12	0.212
12.00	-100.79	-8.64	0.00	-1,031.48	0.00	1,031.48	4,173.80	2,086.90	7,869.20	3,940.45	0.16	-0.13	0.211
13.00	-100.17	-8.63	0.00	-1,022.85	0.00	1,022.85	4,157.94	2,078.97	7,809.18	3,910.39	0.19	-0.14	0.211
14.00	-99.54	-8.62	0.00	-1,014.22	0.00	1,014.22	4,142.07	2,071.04	7,749.38	3,880.45	0.22	-0.15	0.210
15.00	-98.92	-8.62	0.00	-1,005.60	0.00	1,005.60	4,126.21	2,063.10	7,689.82	3,850.62	0.26	-0.16	0.210
16.00	-98.30	-8.61	0.00	-996.98	0.00	996.98	4,110.34	2,055.17	7,630.48	3,820.91	0.29	-0.17	0.209
17.00	-97.68	-8.61	0.00	-988.37	0.00	988.37	4,094.48	2,047.24	7,571.37	3,791.31	0.33	-0.19	0.209
18.00	-97.06	-8.60	0.00	-979.76	0.00	979.76	4,078.62	2,039.31	7,512.50	3,761.83	0.37	-0.20	0.208
19.00	-96.44	-8.59	0.00	-971.16	0.00	971.16	4,062.75	2,031.38	7,453.85	3,732.47	0.41	-0.21	0.208
20.00	-95.82	-8.59	0.00	-962.57	0.00	962.57	4,046.89	2,023.44	7,395.44	3,703.21	0.46	-0.22	0.207
21.00	-95.20	-8.58	0.00	-953.98	0.00	953.98	4,031.02	2,015.51	7,337.25	3,674.08	0.50	-0.23	0.207
22.00	-94.58	-8.57	0.00	-945.40	0.00	945.40	4,015.16	2,007.58	7,279.29	3,645.06	0.55	-0.24	0.206
22.50	-94.27	-8.57	0.00	-941.11	0.00	941.11	4,007.23	2,003.61	7,250.40	3,630.59	0.58	-0.25	0.206
22.50	-94.27	-8.57	0.00	-941.11	0.00	941.11	4,007.23	2,003.61	7,250.40	3,630.59	0.58	-0.25	0.206
23.00	-93.96	-8.57	0.00	-936.83	0.00	936.83	3,999.30	1,999.65	7,221.56	3,616.15	0.60	-0.25	0.206
24.00	-93.35	-8.56	0.00	-928.26	0.00	928.26	3,983.43	1,991.72	7,164.07	3,587.36	0.66	-0.26	0.205
25.00	-92.73	-8.55	0.00	-919.70	0.00	919.70	3,967.57	1,983.78	7,106.80	3,558.68	0.72	-0.27	0.205
26.00	-92.11	-8.55	0.00	-911.15	0.00	911.15	3,951.70	1,975.85	7,049.76	3,530.12	0.77	-0.29	0.204
27.00	-91.50	-8.54	0.00	-902.60	0.00	902.60	3,935.84	1,967.92	6,992.95	3,501.67	0.84	-0.30	0.204
28.00	-90.88	-8.53	0.00	-894.07	0.00	894.07	3,919.98	1,959.99	6,936.37	3,473.34	0.90	-0.31	0.203
28.50	-90.58	-8.53	0.00	-889.80	0.00	889.80	3,912.04	1,956.02	6,908.17	3,459.22	0.93	-0.31	0.203
29.00	-90.13	-8.52	0.00	-885.54	0.00	885.54	3,904.11	1,952.06	6,880.03	3,445.13	0.96	-0.32	0.200
30.00	-89.23	-8.51	0.00	-877.02	0.00	877.02	3,888.25	1,944.12	6,823.91	3,417.03	1.03	-0.33	0.200
31.00	-88.33	-8.50	0.00	-868.51	0.00	868.51	3,872.38	1,936.19	6,768.02	3,389.04	1.10	-0.34	0.199
32.00	-87.43	-8.49	0.00	-860.01	0.00	860.01	3,856.52	1,928.26	6,712.36	3,361.17	1.18	-0.35	0.198
33.00	-86.54	-8.48	0.00	-851.52	0.00	851.52	3,840.66	1,920.33	6,656.93	3,333.41	1.25	-0.36	0.197
34.00	-85.65	-8.47	0.00	-843.04	0.00	843.04	3,824.79	1,912.40	6,601.73	3,305.77	1.33	-0.37	0.197
35.00	-84.76	-8.45	0.00	-834.58	0.00	834.58	3,899.62	1,949.81	6,864.12	3,437.16	1.41	-0.39	0.191
36.00	-84.14	-8.44	0.00	-826.12	0.00	826.12	3,883.76	1,941.88	6,808.07	3,409.09	1.49	-0.40	0.190
37.00	-83.53	-8.43	0.00	-817.68	0.00	817.68	3,867.90	1,933.95	6,752.24	3,381.14	1.57	-0.41	0.190
38.00	-82.91	-8.42	0.00	-809.25	0.00	809.25	3,852.03	1,926.02	6,696.65	3,353.30	1.66	-0.42	0.189
39.00	-82.30	-8.40	0.00	-800.84	0.00	800.84	3,836.17	1,918.08	6,641.29	3,325.58	1.75	-0.43	0.188
40.00	-81.69	-8.39	0.00	-792.43	0.00	792.43	3,820.30	1,910.15	6,586.15	3,297.97	1.84	-0.44	0.188
41.00	-81.08	-8.38	0.00	-784.04	0.00	784.04	3,804.44	1,902.22	6,531.25	3,270.48	1.93	-0.45	0.187
42.00	-80.47	-8.36	0.00	-775.66	0.00	775.66	3,788.58	1,894.29	6,476.57	3,243.10	2.03	-0.46	0.186
43.00	-79.86	-8.35	0.00	-767.30	0.00	767.30	3,772.71	1,886.36	6,422.13	3,215.84	2.13	-0.47	0.185
43.00	-79.86	-8.35	0.00	-767.30	0.00	767.30	3,772.71	1,886.36	6,422.13	3,215.84	2.13	-0.47	0.185
44.00	-79.25	-8.34	0.00	-758.95	0.00	758.95	3,756.85	1,878.42	6,367.91	3,188.69	2.23	-0.48	0.185
45.00	-78.65	-8.32	0.00	-750.62	0.00	750.62	3,740.98	1,870.49	6,313.93	3,161.66	2.33	-0.49	0.184
46.00	-78.04	-8.31	0.00	-742.29	0.00	742.29	3,725.12	1,862.56	6,260.17	3,134.74	2.43	-0.50	0.183

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice 34 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor 1.00 Wind Importance Factor 1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

47.00	-77.43	-8.29	0.00	-733.99	0.00	733.99	3,709.26	1,854.63	6,206.65	3,107.94	2.54	-0.51	0.182
48.00	-76.83	-8.28	0.00	-725.70	0.00	725.70	3,693.39	1,846.70	6,153.35	3,081.25	2.65	-0.52	0.181
49.00	-76.23	-8.26	0.00	-717.42	0.00	717.42	3,677.53	1,838.76	6,100.29	3,054.68	2.76	-0.54	0.181
50.00	-75.63	-8.25	0.00	-709.16	0.00	709.16	3,661.66	1,830.83	6,047.45	3,028.22	2.87	-0.55	0.180
51.00	-75.03	-8.23	0.00	-700.91	0.00	700.91	3,645.80	1,822.90	5,994.84	3,001.88	2.99	-0.56	0.179
52.00	-74.43	-8.21	0.00	-692.69	0.00	692.69	3,629.94	1,814.97	5,942.47	2,975.65	3.11	-0.57	0.178
53.00	-73.83	-8.20	0.00	-684.47	0.00	684.47	3,614.07	1,807.04	5,890.32	2,949.54	3.23	-0.58	0.177
54.00	-73.23	-8.18	0.00	-676.28	0.00	676.28	3,598.21	1,799.10	5,838.41	2,923.54	3.35	-0.59	0.176
55.00	-72.64	-8.15	0.00	-668.10	0.00	668.10	3,582.34	1,791.17	5,786.72	2,897.66	3.47	-0.60	0.176
56.00	-72.04	-8.12	0.00	-659.95	0.00	659.95	3,566.48	1,783.24	5,735.26	2,871.89	3.60	-0.61	0.175
57.00	-71.45	-8.09	0.00	-651.83	0.00	651.83	3,550.62	1,775.31	5,684.03	2,846.24	3.73	-0.62	0.174
58.00	-70.86	-8.06	0.00	-643.73	0.00	643.73	3,534.75	1,767.38	5,633.04	2,820.71	3.86	-0.63	0.173
59.00	-70.07	-8.03	0.00	-635.67	0.00	635.67	3,518.89	1,759.44	5,582.27	2,795.28	3.99	-0.64	0.170
60.00	-69.29	-8.00	0.00	-627.64	0.00	627.64	3,503.02	1,751.51	5,531.73	2,769.98	4.13	-0.65	0.169
61.00	-68.51	-7.96	0.00	-619.64	0.00	619.64	3,487.16	1,743.58	5,481.43	2,744.79	4.27	-0.66	0.168
62.00	-67.73	-7.93	0.00	-611.68	0.00	611.68	3,471.30	1,735.65	5,431.35	2,719.71	4.41	-0.67	0.167
63.00	-66.95	-7.90	0.00	-603.75	0.00	603.75	3,455.43	1,727.72	5,381.50	2,694.75	4.55	-0.68	0.166
63.50	-66.56	-7.88	0.00	-599.80	0.00	599.80	3,158.12	1,579.06	5,037.43	2,522.46	4.62	-0.69	0.164
64.00	-66.30	-7.86	0.00	-595.86	0.00	595.86	3,152.80	1,576.40	5,017.53	2,512.49	4.69	-0.69	0.163
65.00	-65.77	-7.83	0.00	-588.00	0.00	588.00	3,142.13	1,571.07	4,977.80	2,492.60	4.84	-0.71	0.162
66.00	-65.24	-7.80	0.00	-580.16	0.00	580.16	3,131.44	1,565.72	4,938.17	2,472.75	4.99	-0.72	0.161
67.00	-64.71	-7.77	0.00	-572.36	0.00	572.36	3,120.71	1,560.35	4,898.65	2,452.96	5.14	-0.73	0.160
68.00	-64.19	-7.74	0.00	-564.59	0.00	564.59	3,109.92	1,554.96	4,859.19	2,433.21	5.30	-0.74	0.158
69.00	-63.66	-7.71	0.00	-556.85	0.00	556.85	3,095.65	1,547.82	4,814.46	2,410.81	5.45	-0.75	0.157
70.00	-63.14	-7.68	0.00	-549.13	0.00	549.13	3,081.37	1,540.68	4,769.94	2,388.51	5.61	-0.77	0.156
71.00	-62.61	-7.65	0.00	-541.45	0.00	541.45	3,067.09	1,533.55	4,725.62	2,366.32	5.77	-0.78	0.155
72.00	-62.09	-7.62	0.00	-533.81	0.00	533.81	3,052.81	1,526.41	4,681.51	2,344.23	5.94	-0.79	0.154
73.00	-61.57	-7.58	0.00	-526.19	0.00	526.19	3,038.54	1,519.27	4,637.61	2,322.25	6.11	-0.80	0.153
74.00	-61.05	-7.55	0.00	-518.61	0.00	518.61	3,024.26	1,512.13	4,593.91	2,300.37	6.27	-0.81	0.152
75.00	-60.53	-7.52	0.00	-511.06	0.00	511.06	3,009.98	1,504.99	4,550.42	2,278.59	6.45	-0.82	0.151
76.00	-60.01	-7.48	0.00	-503.54	0.00	503.54	2,995.70	1,497.85	4,507.14	2,256.92	6.62	-0.84	0.150
77.00	-59.50	-7.45	0.00	-496.06	0.00	496.06	2,981.43	1,490.71	4,464.06	2,235.35	6.80	-0.85	0.149
78.00	-58.98	-7.42	0.00	-488.60	0.00	488.60	2,967.15	1,483.57	4,421.19	2,213.88	6.98	-0.86	0.147
79.00	-58.46	-7.38	0.00	-481.19	0.00	481.19	2,952.87	1,476.44	4,378.53	2,192.52	7.16	-0.87	0.146
80.00	-57.95	-7.35	0.00	-473.80	0.00	473.80	2,938.59	1,469.30	4,336.07	2,171.26	7.34	-0.88	0.145
81.00	-57.44	-7.31	0.00	-466.46	0.00	466.46	2,924.32	1,462.16	4,293.83	2,150.10	7.53	-0.89	0.144
82.00	-56.92	-7.28	0.00	-459.14	0.00	459.14	2,910.04	1,455.02	4,251.78	2,129.05	7.72	-0.91	0.143
83.00	-56.41	-7.24	0.00	-451.86	0.00	451.86	2,895.76	1,447.88	4,209.95	2,108.10	7.91	-0.92	0.141
84.00	-55.90	-7.21	0.00	-444.62	0.00	444.62	2,881.48	1,440.74	4,168.32	2,087.26	8.10	-0.93	0.140
85.00	-55.39	-7.17	0.00	-437.41	0.00	437.41	2,867.21	1,433.60	4,126.90	2,066.52	8.30	-0.94	0.139
86.00	-54.88	-7.14	0.00	-430.23	0.00	430.23	2,852.93	1,426.46	4,085.69	2,045.88	8.49	-0.95	0.138
87.00	-54.38	-7.10	0.00	-423.10	0.00	423.10	2,838.65	1,419.33	4,044.68	2,025.35	8.69	-0.96	0.137
88.00	-53.87	-7.07	0.00	-416.00	0.00	416.00	2,824.37	1,412.19	4,003.88	2,004.91	8.90	-0.97	0.135
89.00	-53.22	-7.03	0.00	-408.93	0.00	408.93	2,810.09	1,405.05	3,963.28	1,984.59	9.10	-0.98	0.133
90.00	-52.57	-6.99	0.00	-401.91	0.00	401.91	2,795.82	1,397.91	3,922.90	1,964.36	9.31	-1.00	0.131
91.00	-51.93	-6.95	0.00	-394.92	0.00	394.92	2,781.54	1,390.77	3,882.72	1,944.24	9.52	-1.01	0.130
92.00	-51.28	-6.90	0.00	-387.98	0.00	387.98	2,767.26	1,383.63	3,842.74	1,924.23	9.73	-1.02	0.129
93.00	-50.64	-6.86	0.00	-381.07	0.00	381.07	2,292.76	1,146.38	3,238.31	1,621.56	9.95	-1.03	0.142
94.00	-50.16	-6.83	0.00	-374.21	0.00	374.21	2,284.25	1,142.13	3,209.75	1,607.26	10.16	-1.04	0.140
95.00	-49.69	-6.79	0.00	-367.38	0.00	367.38	2,275.71	1,137.86	3,181.27	1,593.00	10.38	-1.05	0.139
96.00	-49.21	-6.75	0.00	-360.59	0.00	360.59	2,267.14	1,133.57	3,152.86	1,578.78	10.60	-1.06	0.137
97.00	-48.74	-6.71	0.00	-353.84	0.00	353.84	2,258.54	1,129.27	3,124.54	1,564.59	10.83	-1.07	0.135
98.00	-48.26	-6.67	0.00	-347.13	0.00	347.13	2,249.90	1,124.95	3,096.30	1,550.45	11.05	-1.08	0.133
99.00	-47.79	-6.64	0.00	-340.46	0.00	340.46	2,241.24	1,120.62	3,068.14	1,536.35	11.28	-1.09	0.132
100.00	-47.32	-6.60	0.00	-333.82	0.00	333.82	2,232.54	1,116.27	3,040.06	1,522.29	11.51	-1.11	0.130
101.00	-46.85	-6.56	0.00	-327.23	0.00	327.23	2,223.81	1,111.90	3,012.06	1,508.27	11.74	-1.12	0.128
102.00	-46.38	-6.52	0.00	-320.67	0.00	320.67	2,215.04	1,107.52	2,984.14	1,494.29	11.98	-1.13	0.127

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice 34 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor 1.00 Wind Importance Factor 1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

103.00	-45.91	-6.48	0.00	-314.15	0.00	314.15	2,206.25	1,103.12	2,956.31	1,480.35	12.22	-1.14	0.125
104.00	-45.44	-6.44	0.00	-307.68	0.00	307.68	2,197.42	1,098.71	2,928.57	1,466.46	12.45	-1.15	0.123
105.00	-44.97	-6.40	0.00	-301.24	0.00	301.24	2,188.56	1,094.28	2,900.91	1,452.61	12.70	-1.16	0.121
105.00	-44.97	-6.40	0.00	-301.24	0.00	301.24	2,188.56	1,094.28	2,900.91	1,452.61	12.70	-1.16	0.228
106.00	-44.59	-6.36	0.00	-294.84	0.00	294.84	2,179.67	1,089.83	2,873.33	1,438.80	12.94	-1.17	0.225
107.00	-44.20	-6.33	0.00	-288.48	0.00	288.48	2,170.74	1,085.37	2,845.85	1,425.04	13.19	-1.19	0.223
108.00	-43.82	-6.30	0.00	-282.14	0.00	282.14	2,161.78	1,080.89	2,818.44	1,411.32	13.44	-1.21	0.220
109.00	-43.43	-6.27	0.00	-275.85	0.00	275.85	2,150.55	1,075.28	2,788.22	1,396.18	13.69	-1.23	0.218
110.00	-43.05	-6.24	0.00	-269.58	0.00	269.58	2,138.65	1,069.33	2,757.31	1,380.70	13.95	-1.25	0.215
111.00	-42.67	-6.20	0.00	-263.34	0.00	263.34	2,126.76	1,063.38	2,726.56	1,365.31	14.22	-1.27	0.213
112.00	-42.31	-6.19	0.00	-257.14	0.00	257.14	2,114.86	1,057.43	2,695.99	1,350.00	14.49	-1.29	0.211
113.00	-41.94	-6.17	0.00	-250.95	0.00	250.95	2,102.96	1,051.48	2,665.59	1,334.78	14.76	-1.31	0.208
114.00	-41.58	-6.14	0.00	-244.79	0.00	244.79	2,091.06	1,045.53	2,635.36	1,319.64	15.03	-1.33	0.205
115.00	-41.22	-6.11	0.00	-238.65	0.00	238.65	2,079.16	1,039.58	2,605.31	1,304.59	15.31	-1.34	0.203
116.00	-40.86	-6.08	0.00	-232.54	0.00	232.54	2,067.27	1,033.63	2,575.43	1,289.63	15.60	-1.36	0.200
116.50	-40.69	-6.06	0.00	-229.50	0.00	229.50	2,061.32	1,030.66	2,560.55	1,282.18	15.74	-1.37	0.199
117.00	-40.46	-6.05	0.00	-226.47	0.00	226.47	2,055.37	1,027.68	2,545.72	1,274.75	15.88	-1.38	0.197
118.00	-40.00	-6.01	0.00	-220.43	0.00	220.43	2,043.47	1,021.73	2,516.18	1,259.96	16.18	-1.40	0.195
119.00	-39.54	-5.98	0.00	-214.42	0.00	214.42	2,031.57	1,015.79	2,486.81	1,245.26	16.47	-1.42	0.192
120.00	-39.09	-5.94	0.00	-208.44	0.00	208.44	2,019.67	1,009.84	2,457.62	1,230.64	16.77	-1.44	0.189
121.00	-38.63	-5.91	0.00	-202.50	0.00	202.50	1,562.89	781.45	1,930.84	966.86	17.07	-1.45	0.234
122.00	-38.30	-5.88	0.00	-196.59	0.00	196.59	1,556.55	778.28	1,911.74	957.29	17.38	-1.47	0.230
123.00	-37.97	-5.85	0.00	-190.71	0.00	190.71	1,550.18	775.09	1,892.68	947.75	17.69	-1.49	0.226
124.00	-37.64	-5.82	0.00	-184.87	0.00	184.87	1,543.77	771.89	1,873.68	938.23	18.01	-1.51	0.221
125.00	-37.31	-5.78	0.00	-179.05	0.00	179.05	1,537.34	768.67	1,854.73	928.74	18.33	-1.53	0.217
126.00	-36.98	-5.75	0.00	-173.27	0.00	173.27	1,530.87	765.43	1,835.84	919.28	18.65	-1.55	0.213
127.00	-29.54	-4.61	0.00	-167.52	0.00	167.52	1,524.37	762.18	1,817.00	909.85	18.98	-1.57	0.204
128.00	-29.23	-4.58	0.00	-162.90	0.00	162.90	1,517.84	758.92	1,798.22	900.45	19.31	-1.59	0.200
129.00	-28.92	-4.55	0.00	-158.32	0.00	158.32	1,511.27	755.64	1,779.50	891.07	19.64	-1.61	0.197
130.00	-28.61	-4.51	0.00	-153.78	0.00	153.78	1,504.67	752.34	1,760.83	881.72	19.98	-1.63	0.193
131.00	-28.30	-4.48	0.00	-149.27	0.00	149.27	1,498.04	749.02	1,742.22	872.40	20.33	-1.65	0.190
132.00	-28.00	-4.44	0.00	-144.79	0.00	144.79	1,491.38	745.69	1,723.67	863.12	20.67	-1.67	0.187
133.00	-27.69	-4.41	0.00	-140.35	0.00	140.35	1,484.69	742.34	1,705.18	853.86	21.02	-1.68	0.183
134.00	-27.39	-4.37	0.00	-135.94	0.00	135.94	1,477.96	738.98	1,686.75	844.63	21.38	-1.70	0.180
135.00	-27.08	-4.34	0.00	-131.57	0.00	131.57	1,471.20	735.60	1,668.38	835.43	21.74	-1.72	0.176
136.00	-26.78	-4.30	0.00	-127.23	0.00	127.23	1,464.41	732.21	1,650.07	826.26	22.10	-1.74	0.172
137.00	-26.48	-4.26	0.00	-122.93	0.00	122.93	1,457.59	728.80	1,631.83	817.13	22.46	-1.75	0.169
138.00	-26.18	-4.23	0.00	-118.67	0.00	118.67	1,450.74	725.37	1,613.64	808.02	22.83	-1.77	0.165
139.00	-25.88	-4.19	0.00	-114.44	0.00	114.44	1,443.85	721.92	1,595.53	798.95	23.21	-1.79	0.161
140.00	-25.58	-4.15	0.00	-110.25	0.00	110.25	1,436.93	718.47	1,577.47	789.91	23.58	-1.80	0.157
141.00	-25.28	-4.12	0.00	-106.10	0.00	106.10	1,429.98	714.99	1,559.48	780.90	23.96	-1.82	0.154
142.00	-24.98	-4.08	0.00	-101.98	0.00	101.98	1,423.00	711.50	1,541.56	771.93	24.34	-1.84	0.150
143.00	-24.69	-4.04	0.00	-97.90	0.00	97.90	1,415.98	707.99	1,523.71	762.99	24.73	-1.85	0.146
144.00	-24.39	-4.01	0.00	-93.86	0.00	93.86	1,408.93	704.47	1,505.92	754.08	25.12	-1.87	0.142
145.00	-24.06	-3.96	0.00	-89.85	0.00	89.85	1,401.85	700.93	1,488.20	745.20	25.51	-1.88	0.138
146.00	-20.94	-3.32	0.00	-85.89	0.00	85.89	1,394.74	697.37	1,470.54	736.36	25.91	-1.90	0.132
147.00	-20.71	-3.30	0.00	-82.57	0.00	82.57	1,387.60	693.80	1,452.96	727.56	26.31	-1.91	0.128
148.00	-20.48	-3.28	0.00	-79.27	0.00	79.27	1,379.83	689.92	1,434.84	718.48	26.71	-1.92	0.125
149.00	-20.25	-3.25	0.00	-75.99	0.00	75.99	1,370.32	685.16	1,415.01	708.56	27.11	-1.94	0.122
150.00	-19.96	-3.22	0.00	-72.74	0.00	72.74	1,360.80	680.40	1,395.33	698.70	27.52	-1.95	0.119
151.00	-19.67	-3.20	0.00	-69.52	0.00	69.52	1,351.28	675.64	1,375.78	688.91	27.93	-1.96	0.115
152.00	-19.38	-3.17	0.00	-66.32	0.00	66.32	1,341.76	670.88	1,356.37	679.19	28.34	-1.98	0.112
152.50	-19.23	-3.16	0.00	-64.73	0.00	64.73	942.35	471.17	968.66	485.05	28.55	-1.98	0.154
153.00	-19.13	-3.14	0.00	-63.15	0.00	63.15	940.20	470.10	963.05	482.24	28.76	-1.99	0.151
154.00	-18.92	-3.12	0.00	-60.01	0.00	60.01	935.87	467.94	951.84	476.63	29.17	-2.00	0.146
155.00	-18.71	-3.10	0.00	-56.89	0.00	56.89	931.51	465.76	940.66	471.03	29.60	-2.02	0.141
156.00	-18.51	-3.07	0.00	-53.80	0.00	53.80	927.12	463.56	929.51	465.45	30.02	-2.03	0.136

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph with 0.75 in Radial Ice 34 Iterations

Gust Response Factor :1.10 Ice Dead Load Factor 1.00 Wind Importance Factor 1.00
Dead Load Factor :1.20 Ice Importance Factor :1.00
Wind Load Factor :1.00

157.00	-18.30	-3.05	0.00	-50.72	0.00	50.72	922.70	461.35	918.40	459.88	30.45	-2.05	0.130
158.00	-18.09	-3.02	0.00	-47.68	0.00	47.68	918.25	459.12	907.31	454.33	30.88	-2.06	0.125
159.00	-17.89	-3.00	0.00	-44.66	0.00	44.66	913.76	456.88	896.26	448.80	31.31	-2.07	0.119
160.00	-17.69	-2.97	0.00	-41.66	0.00	41.66	909.24	454.62	885.24	443.28	31.74	-2.08	0.113
161.00	-17.48	-2.95	0.00	-38.68	0.00	38.68	904.69	452.35	874.26	437.78	32.18	-2.09	0.108
162.00	-17.28	-2.92	0.00	-35.74	0.00	35.74	900.11	450.06	863.31	432.30	32.62	-2.11	0.102
163.00	-17.08	-2.90	0.00	-32.81	0.00	32.81	895.50	447.75	852.40	426.83	33.06	-2.12	0.096
164.00	-16.88	-2.87	0.00	-29.92	0.00	29.92	890.85	445.42	841.52	421.39	33.51	-2.12	0.090
165.00	-16.68	-2.85	0.00	-27.04	0.00	27.04	886.17	443.09	830.68	415.96	33.95	-2.13	0.084
166.00	-16.48	-2.82	0.00	-24.19	0.00	24.19	881.46	440.73	819.88	410.55	34.40	-2.14	0.078
167.00	-8.51	-1.57	0.00	-21.37	0.00	21.37	876.72	438.36	809.12	405.16	34.85	-2.15	0.062
168.00	-8.33	-1.54	0.00	-19.80	0.00	19.80	871.94	435.97	798.40	399.79	35.30	-2.16	0.059
169.00	-8.15	-1.52	0.00	-18.26	0.00	18.26	867.13	433.57	787.71	394.44	35.75	-2.16	0.056
170.00	-7.97	-1.49	0.00	-16.74	0.00	16.74	862.29	431.15	777.07	389.11	36.21	-2.17	0.052
171.00	-7.34	-1.35	0.00	-15.25	0.00	15.25	857.42	428.71	766.47	383.80	36.66	-2.17	0.048
172.00	-7.19	-1.32	0.00	-13.90	0.00	13.90	852.52	426.26	755.91	378.52	37.12	-2.18	0.045
173.00	-7.04	-1.30	0.00	-12.58	0.00	12.58	847.58	423.79	745.39	373.25	37.58	-2.18	0.042
174.00	-6.89	-1.27	0.00	-11.28	0.00	11.28	842.61	421.31	734.92	368.01	38.03	-2.19	0.039
175.00	-6.74	-1.25	0.00	-10.00	0.00	10.00	837.61	418.81	724.49	362.78	38.49	-2.19	0.036
176.00	-6.60	-1.22	0.00	-8.75	0.00	8.75	832.58	416.29	714.11	357.59	38.95	-2.20	0.032
177.00	-6.45	-1.20	0.00	-7.53	0.00	7.53	827.51	413.76	703.77	352.41	39.41	-2.20	0.029
178.00	-6.30	-1.18	0.00	-6.33	0.00	6.33	822.42	411.21	693.48	347.26	39.87	-2.20	0.026
179.00	-6.16	-1.15	0.00	-5.15	0.00	5.15	817.29	408.64	683.23	342.12	40.34	-2.21	0.023
180.00	-6.02	-1.13	0.00	-4.00	0.00	4.00	812.13	406.06	673.04	337.02	40.80	-2.21	0.019
181.00	-5.87	-1.10	0.00	-2.87	0.00	2.87	806.93	403.47	662.89	331.94	41.26	-2.21	0.016
182.00	-5.73	-1.08	0.00	-1.77	0.00	1.77	801.71	400.85	652.79	326.88	41.72	-2.21	0.013
183.00	0.00	-0.86	0.00	-0.69	0.00	0.69	796.45	398.23	642.74	321.85	42.19	-2.21	0.002

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.00
Wind Load Factor :1.00

Applied Segment Forces Summary

		Shaft Forces		Discrete Forces				Linear Forces		Sum of Forces			
Seg Elev (ft)	Description	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		9.0	0.0					0.0	0.0	9.0	0.0	0.0	0.0
1.00		18.0	259.4					0.0	66.8	18.0	326.2	0.0	0.0
2.00		17.9	258.4					0.0	66.8	17.9	325.2	0.0	0.0
3.00		17.8	257.5					0.0	66.8	17.8	324.3	0.0	0.0
4.00		17.8	256.5					0.0	66.8	17.8	323.3	0.0	0.0
5.00		17.7	255.6					0.0	66.8	17.7	322.4	0.0	0.0
6.00		17.6	254.7					0.0	132.6	17.6	387.3	0.0	0.0
7.00	Appertunance(s)	17.6	253.7	17.3	0.0	0.0	75.6	0.0	132.6	34.8	461.9	0.0	0.0
8.00		17.5	252.8					0.0	132.6	17.5	385.4	0.0	0.0
9.00		17.4	251.8					0.0	132.6	17.4	384.4	0.0	0.0
10.00		17.4	250.9					0.0	132.6	17.4	383.5	0.0	0.0
11.00		17.3	249.9					0.0	132.6	17.3	382.5	0.0	0.0
12.00		17.2	249.0					0.0	132.6	17.2	381.6	0.0	0.0
13.00		17.2	248.0					0.0	132.6	17.2	380.7	0.0	0.0
14.00		17.1	247.1					0.0	132.6	17.1	379.7	0.0	0.0
15.00		17.1	246.2					0.0	132.6	17.1	378.8	0.0	0.0
16.00		17.0	245.2					0.0	132.6	17.0	377.8	0.0	0.0
17.00		16.9	244.3					0.0	132.6	16.9	376.9	0.0	0.0
18.00		16.9	243.3					0.0	132.6	16.9	375.9	0.0	0.0
19.00		16.8	242.4					0.0	132.6	16.8	375.0	0.0	0.0
20.00		16.7	241.4					0.0	132.6	16.7	374.0	0.0	0.0
21.00		16.7	240.5					0.0	132.6	16.7	373.1	0.0	0.0
22.00		12.5	239.5					0.0	132.6	12.5	372.2	0.0	0.0
22.50	Reinf. Top Reinf	8.3	119.4					0.0	66.3	8.3	185.7	0.0	0.0
23.00		12.4	119.2					0.0	66.3	12.4	185.5	0.0	0.0
24.00		16.5	237.7					0.0	132.6	16.5	370.3	0.0	0.0
25.00		16.4	236.7					0.0	132.6	16.4	369.3	0.0	0.0
26.00		16.3	235.8					0.0	132.6	16.3	368.4	0.0	0.0
27.00		16.3	234.8					0.0	132.6	16.3	367.4	0.0	0.0
28.00		12.2	233.9					0.0	132.6	12.2	366.5	0.0	0.0
28.50	Bot - Section 2	8.2	116.6					0.0	66.3	8.2	182.9	0.0	0.0
29.00		12.4	235.4					0.0	66.3	12.4	301.7	0.0	0.0
30.00		16.5	469.4					0.0	132.6	16.5	602.0	0.0	0.0
31.00		16.6	467.5					0.0	132.6	16.6	600.1	0.0	0.0
32.00		16.6	465.6					0.0	132.6	16.6	598.2	0.0	0.0
33.00		16.7	463.7					0.0	132.6	16.7	596.3	0.0	0.0
34.00		16.8	461.8					0.0	132.6	16.8	594.4	0.0	0.0
35.00	Top - Section 1	16.9	459.9					0.0	132.6	16.9	592.5	0.0	0.0
36.00		16.9	231.7					0.0	132.6	16.9	364.3	0.0	0.0
37.00		17.0	230.8					0.0	132.6	17.0	363.4	0.0	0.0
38.00		17.1	229.8					0.0	132.6	17.1	362.4	0.0	0.0
39.00		17.1	228.9					0.0	132.6	17.1	361.5	0.0	0.0
40.00		17.2	227.9					0.0	132.6	17.2	360.6	0.0	0.0
41.00		17.2	227.0					0.0	132.6	17.2	359.6	0.0	0.0
42.00		17.3	226.0					0.0	132.6	17.3	358.7	0.0	0.0
43.00	Reinf. Top Reinf	17.3	225.1					0.0	132.6	17.3	357.7	0.0	0.0
44.00		17.4	224.2					0.0	132.6	17.4	356.8	0.0	0.0
45.00		17.4	223.2					0.0	132.6	17.4	355.8	0.0	0.0

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.00
Wind Load Factor :1.00

46.00		17.4	222.3	0.0	132.6	17.4	354.9	0.0	0.0
47.00		17.5	221.3	0.0	132.6	17.5	353.9	0.0	0.0
48.00		17.5	220.4	0.0	132.6	17.5	353.0	0.0	0.0
49.00		17.5	219.4	0.0	132.6	17.5	352.1	0.0	0.0
50.00		17.6	218.5	0.0	132.6	17.6	351.1	0.0	0.0
51.00		17.6	217.5	0.0	132.6	17.6	350.2	0.0	0.0
52.00		17.6	216.6	0.0	132.6	17.6	349.2	0.0	0.0
53.00		17.6	215.7	0.0	132.6	17.6	348.3	0.0	0.0
54.00		25.1	214.7	0.0	132.6	25.1	347.3	0.0	0.0
55.00		32.6	213.8	6.5	132.6	39.1	346.4	0.0	0.0
56.00		32.6	212.8	6.6	132.6	39.2	345.4	0.0	0.0
57.00		32.6	211.9	6.6	132.6	39.2	344.5	0.0	0.0
58.00	Bot - Section 3	33.0	210.9	6.6	132.6	39.6	343.6	0.0	0.0
59.00		33.3	371.0	6.7	132.6	40.0	503.6	0.0	0.0
60.00		33.3	369.4	6.7	132.6	40.0	502.0	0.0	0.0
61.00		33.3	367.7	6.7	132.6	40.0	500.3	0.0	0.0
62.00		33.3	366.1	6.8	132.6	40.1	498.7	0.0	0.0
63.00		25.0	364.4	6.8	132.6	31.8	497.0	0.0	0.0
63.50	Top - Section 2	16.7	181.6	3.4	66.3	20.1	247.9	0.0	0.0
64.00		25.0	78.7	3.4	66.3	28.4	145.0	0.0	0.0
65.00		33.3	156.8	6.9	132.6	40.2	289.4	0.0	0.0
66.00		33.3	156.1	6.9	132.6	40.2	288.7	0.0	0.0
67.00		33.3	155.4	6.9	132.6	40.2	288.0	0.0	0.0
68.00		33.3	154.7	6.9	132.6	40.2	287.3	0.0	0.0
69.00		33.3	154.0	7.0	132.6	40.3	286.6	0.0	0.0
70.00		33.3	153.2	7.0	132.6	40.3	285.9	0.0	0.0
71.00		33.3	152.5	7.0	132.6	40.3	285.2	0.0	0.0
72.00		33.2	151.8	7.1	132.6	40.3	284.4	0.0	0.0
73.00		33.2	151.1	7.1	132.6	40.3	283.7	0.0	0.0
74.00		33.2	150.4	7.1	132.6	40.3	283.0	0.0	0.0
75.00		33.2	149.7	7.1	132.6	40.3	282.3	0.0	0.0
76.00		33.1	149.0	7.2	132.6	40.3	281.6	0.0	0.0
77.00		33.1	148.3	7.2	132.6	40.3	280.9	0.0	0.0
78.00		33.1	147.6	7.2	132.6	40.3	280.2	0.0	0.0
79.00		33.0	146.9	7.2	132.6	40.3	279.5	0.0	0.0
80.00		33.0	146.2	7.3	132.6	40.3	278.8	0.0	0.0
81.00		32.9	145.5	7.3	132.6	40.2	278.1	0.0	0.0
82.00		32.9	144.7	7.3	132.6	40.2	277.4	0.0	0.0
83.00		32.9	144.0	7.4	132.6	40.2	276.7	0.0	0.0
84.00		32.8	143.3	7.4	132.6	40.2	275.9	0.0	0.0
85.00		32.8	142.6	7.4	132.6	40.2	275.2	0.0	0.0
86.00		32.7	141.9	7.4	132.6	40.1	274.5	0.0	0.0
87.00		32.6	141.2	7.5	132.6	40.1	273.8	0.0	0.0
88.00	Bot - Section 4	32.9	140.5	7.5	132.6	40.4	273.1	0.0	0.0
89.00		33.1	258.6	7.5	132.6	40.6	391.2	0.0	0.0
90.00		33.1	257.3	7.5	132.6	40.6	389.9	0.0	0.0
91.00		33.0	256.0	7.5	132.6	40.5	388.6	0.0	0.0
92.00		32.9	254.7	7.6	132.6	40.5	387.3	0.0	0.0
93.00	Top - Section 3	32.9	253.4	7.6	132.6	40.5	386.0	0.0	0.0
94.00		32.8	115.9	7.6	132.6	40.4	248.5	0.0	0.0
95.00		32.7	115.3	7.6	132.6	40.4	247.9	0.0	0.0
96.00		32.7	114.7	7.7	132.6	40.3	247.3	0.0	0.0
97.00		32.6	114.1	7.7	132.6	40.3	246.7	0.0	0.0
98.00		32.5	113.5	7.7	132.6	40.2	246.1	0.0	0.0
99.00		32.5	112.9	7.7	132.6	40.2	245.5	0.0	0.0
100.00		32.4	112.3	7.8	132.6	40.1	244.9	0.0	0.0
101.00		32.3	111.7	7.8	132.6	40.1	244.3	0.0	0.0

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.00
Wind Load Factor :1.00

102.00		32.2	111.1					7.8	132.6	40.0	243.8	0.0	0.0
103.00		32.1	110.5					7.8	132.6	40.0	243.2	0.0	0.0
104.00		32.1	110.0					7.8	132.6	39.9	242.6	0.0	0.0
105.00	Reinf. Top	32.0	109.4					7.9	132.6	39.8	242.0	0.0	0.0
106.00		31.9	108.8					7.9	65.8	39.8	174.6	0.0	0.0
107.00		31.8	108.2					7.9	65.8	39.7	174.0	0.0	0.0
108.00		31.7	107.6					7.9	65.8	39.6	173.4	0.0	0.0
109.00		31.6	107.0					7.9	65.8	39.6	172.8	0.0	0.0
110.00		31.5	106.4					8.0	65.8	39.5	172.2	0.0	0.0
111.00		24.2	105.8					7.6	65.8	31.8	171.6	0.0	0.0
112.00		17.0	105.2					0.0	65.8	17.0	171.0	0.0	0.0
113.00		24.1	104.6					0.0	65.8	24.1	170.5	0.0	0.0
114.00		31.2	104.0					6.3	65.8	37.4	169.9	0.0	0.0
115.00		31.1	103.5					6.3	65.8	37.3	169.3	0.0	0.0
116.00		23.2	102.9					6.3	65.8	29.5	168.7	0.0	0.0
116.50	Bot - Section 5	15.6	51.2					3.1	32.9	18.7	84.1	0.0	0.0
117.00		23.5	92.7					3.2	32.9	26.7	125.6	0.0	0.0
118.00		31.3	184.6					6.3	65.8	37.6	250.4	0.0	0.0
119.00		31.2	183.5					6.3	65.8	37.5	249.3	0.0	0.0
120.00		31.1	182.4					6.3	65.8	37.4	248.3	0.0	0.0
121.00	Top - Section 4	31.0	181.4					6.4	65.8	37.3	247.2	0.0	0.0
122.00		30.8	81.0					6.4	65.8	37.2	146.8	0.0	0.0
123.00		30.7	80.5					6.4	65.8	37.1	146.3	0.0	0.0
124.00		30.6	80.0					6.4	65.8	37.0	145.9	0.0	0.0
125.00		30.5	79.6					6.4	65.8	36.9	145.4	0.0	0.0
126.00		30.4	79.1					6.4	65.8	36.8	144.9	0.0	0.0
127.00	Appertunance(s)	30.3	78.6	973.7	0.0	0.0	2,862.6	6.5	65.8	1,010.4	3,007.0	0.0	0.0
128.00		30.2	78.1					6.5	51.3	36.7	129.4	0.0	0.0
129.00		30.1	77.7					6.5	51.3	36.6	128.9	0.0	0.0
130.00		30.0	77.2					6.5	51.3	36.4	128.5	0.0	0.0
131.00		29.8	76.7					6.5	51.3	36.3	128.0	0.0	0.0
132.00		29.7	76.3					6.5	51.3	36.2	127.5	0.0	0.0
133.00		29.6	75.8					6.5	51.3	36.1	127.0	0.0	0.0
134.00		29.5	75.3					6.6	51.3	36.0	126.6	0.0	0.0
135.00		29.4	74.8					6.6	51.3	35.9	126.1	0.0	0.0
136.00		29.2	74.4					6.6	51.3	35.8	125.6	0.0	0.0
137.00		29.1	73.9					6.6	51.3	35.7	125.2	0.0	0.0
138.00		29.0	73.4					6.6	51.3	35.6	124.7	0.0	0.0
139.00		28.9	73.0					6.6	51.3	35.5	124.2	0.0	0.0
140.00		28.7	72.5					6.6	51.3	35.4	123.7	0.0	0.0
141.00		28.6	72.0					6.6	51.3	35.3	123.3	0.0	0.0
142.00		28.5	71.5					6.7	51.3	35.1	122.8	0.0	0.0
143.00		28.3	71.1					6.7	51.3	35.0	122.3	0.0	0.0
144.00		28.2	70.6					6.7	51.3	34.9	121.8	0.0	0.0
145.00	Appertunance(s)	28.1	70.1	1.1	0.0	0.0	9.9	6.7	51.3	35.9	131.3	0.0	0.0
146.00	Appertunance(s)	21.6	69.6	439.2	0.0	0.0	1,388.7	6.7	51.3	467.5	1,509.6	0.0	0.0
147.00		15.1	69.2					0.0	36.5	15.1	105.7	0.0	0.0
148.00		15.0	68.7					0.0	36.5	15.0	105.2	0.0	0.0
149.00	Bot - Section 6	15.0	68.2					0.0	36.5	15.0	104.7	0.0	0.0
150.00		15.1	119.5					0.0	36.5	15.1	156.0	0.0	0.0
151.00		15.0	118.6					0.0	36.5	15.0	155.1	0.0	0.0
152.00		11.2	117.8					0.0	36.5	11.2	154.3	0.0	0.0
152.50	Top - Section 5	7.4	58.6					0.0	18.3	7.4	76.8	0.0	0.0
153.00		11.1	25.3					0.0	18.3	11.1	43.5	0.0	0.0
154.00		14.8	50.3					0.0	36.5	14.8	86.8	0.0	0.0
155.00		14.7	49.9					0.0	36.5	14.7	86.4	0.0	0.0
156.00		14.6	49.6					0.0	36.5	14.6	86.1	0.0	0.0

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

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157.00		14.5	49.2					0.0	36.5	14.5	85.7	0.0	0.0
158.00		14.5	48.9					0.0	36.5	14.5	85.4	0.0	0.0
159.00		14.4	48.5					0.0	36.5	14.4	85.0	0.0	0.0
160.00		14.3	48.2					0.0	36.5	14.3	84.7	0.0	0.0
161.00		14.2	47.8					0.0	36.5	14.2	84.3	0.0	0.0
162.00		14.1	47.5					0.0	36.5	14.1	84.0	0.0	0.0
163.00		14.1	47.1					0.0	36.5	14.1	83.6	0.0	0.0
164.00		14.0	46.7					0.0	36.5	14.0	83.2	0.0	0.0
165.00		13.9	46.4					0.0	36.5	13.9	82.9	0.0	0.0
166.00		13.8	46.0					0.0	36.5	13.8	82.5	0.0	0.0
167.00	Appertunance(s)	13.7	45.7	974.9	0.0	0.0	3,327.4	0.0	36.5	988.6	3,409.6	0.0	0.0
168.00		13.7	45.3					0.0	22.8	13.7	68.1	0.0	0.0
169.00		13.6	45.0					0.0	22.8	13.6	67.8	0.0	0.0
170.00		13.5	44.6					0.0	22.8	13.5	67.4	0.0	0.0
171.00	Appertunance(s)	13.4	44.3	117.0	0.0	0.0	79.2	0.0	22.8	130.4	146.3	0.0	0.0
172.00		13.3	43.9					0.0	17.9	13.3	61.8	0.0	0.0
173.00		13.2	43.6					0.0	17.9	13.2	61.4	0.0	0.0
174.00		13.1	43.2					0.0	17.9	13.1	61.1	0.0	0.0
175.00		13.1	42.8					0.0	17.9	13.1	60.7	0.0	0.0
176.00		13.0	42.5					0.0	17.9	13.0	60.4	0.0	0.0
177.00		12.9	42.1					0.0	17.9	12.9	60.0	0.0	0.0
178.00		12.8	41.8					0.0	17.9	12.8	59.7	0.0	0.0
179.00		12.7	41.4					0.0	17.9	12.7	59.3	0.0	0.0
180.00		12.6	41.1					0.0	17.9	12.6	59.0	0.0	0.0
181.00		12.5	40.7					0.0	17.9	12.5	58.6	0.0	0.0
182.00		12.4	40.4					0.0	17.9	12.4	58.3	0.0	0.0
183.00	Appertunance(s)	6.2	40.0	887.9	0.0	816.7	2,398.2	0.0	17.9	894.1	2,456.1	0.0	0.0
								Totals:		8,370.84	56,588.1	0.00	0.00

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.00
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Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-56.59	-8.36	0.00	-1,040.26	0.00	1,040.26	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.190
1.00	-56.26	-8.36	0.00	-1,031.90	0.00	1,031.90	4,348.30	2,174.15	8,544.66	4,278.68	0.00	-0.01	0.190
2.00	-55.93	-8.35	0.00	-1,023.55	0.00	1,023.55	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.02	0.189
3.00	-55.61	-8.34	0.00	-1,015.20	0.00	1,015.20	4,316.57	2,158.29	8,419.78	4,216.15	0.01	-0.03	0.189
4.00	-55.28	-8.33	0.00	-1,006.86	0.00	1,006.86	4,300.71	2,150.36	8,357.68	4,185.05	0.02	-0.04	0.189
5.00	-54.96	-8.32	0.00	-998.53	0.00	998.53	4,284.85	2,142.42	8,295.82	4,154.08	0.03	-0.05	0.188
6.00	-54.57	-8.31	0.00	-990.21	0.00	990.21	4,268.98	2,134.49	8,234.19	4,123.21	0.04	-0.06	0.188
7.00	-54.11	-8.29	0.00	-981.90	0.00	981.90	4,253.12	2,126.56	8,172.78	4,092.46	0.05	-0.07	0.187
8.00	-53.72	-8.28	0.00	-973.61	0.00	973.61	4,237.26	2,118.63	8,111.60	4,061.83	0.07	-0.08	0.187
9.00	-53.33	-8.27	0.00	-965.33	0.00	965.33	4,221.39	2,110.70	8,050.66	4,031.31	0.08	-0.09	0.186
10.00	-52.95	-8.26	0.00	-957.06	0.00	957.06	4,205.53	2,102.76	7,989.95	4,000.91	0.10	-0.10	0.186
11.00	-52.57	-8.25	0.00	-948.80	0.00	948.80	4,189.66	2,094.83	7,929.46	3,970.62	0.13	-0.11	0.186
12.00	-52.18	-8.24	0.00	-940.55	0.00	940.55	4,173.80	2,086.90	7,869.20	3,940.45	0.15	-0.12	0.185
13.00	-51.80	-8.23	0.00	-932.31	0.00	932.31	4,157.94	2,078.97	7,809.18	3,910.39	0.18	-0.13	0.185
14.00	-51.42	-8.23	0.00	-924.07	0.00	924.07	4,142.07	2,071.04	7,749.38	3,880.45	0.20	-0.14	0.184
15.00	-51.04	-8.22	0.00	-915.85	0.00	915.85	4,126.21	2,063.10	7,689.82	3,850.62	0.23	-0.15	0.184
16.00	-50.66	-8.21	0.00	-907.63	0.00	907.63	4,110.34	2,055.17	7,630.48	3,820.91	0.27	-0.16	0.183
17.00	-50.28	-8.20	0.00	-899.43	0.00	899.43	4,094.48	2,047.24	7,571.37	3,791.31	0.30	-0.17	0.183
18.00	-49.90	-8.19	0.00	-891.23	0.00	891.23	4,078.62	2,039.31	7,512.50	3,761.83	0.34	-0.18	0.182
19.00	-49.53	-8.18	0.00	-883.04	0.00	883.04	4,062.75	2,031.38	7,453.85	3,732.47	0.38	-0.19	0.182
20.00	-49.15	-8.17	0.00	-874.86	0.00	874.86	4,046.89	2,023.44	7,395.44	3,703.21	0.42	-0.20	0.181
21.00	-48.78	-8.16	0.00	-866.69	0.00	866.69	4,031.02	2,015.51	7,337.25	3,674.08	0.46	-0.21	0.181
22.00	-48.40	-8.15	0.00	-858.53	0.00	858.53	4,015.16	2,007.58	7,279.29	3,645.06	0.51	-0.22	0.180
22.50	-48.22	-8.15	0.00	-854.45	0.00	854.45	4,007.23	2,003.61	7,250.40	3,630.59	0.53	-0.22	0.180
22.50	-48.22	-8.15	0.00	-854.45	0.00	854.45	4,007.23	2,003.61	7,250.40	3,630.59	0.53	-0.22	0.180
23.00	-48.03	-8.14	0.00	-850.38	0.00	850.38	3,999.30	1,999.65	7,221.56	3,616.15	0.55	-0.23	0.179
24.00	-47.66	-8.13	0.00	-842.24	0.00	842.24	3,983.43	1,991.72	7,164.07	3,587.36	0.60	-0.24	0.179
25.00	-47.29	-8.12	0.00	-834.11	0.00	834.11	3,967.57	1,983.78	7,106.80	3,558.68	0.65	-0.25	0.178
26.00	-46.92	-8.11	0.00	-825.99	0.00	825.99	3,951.70	1,975.85	7,049.76	3,530.12	0.71	-0.26	0.178
27.00	-46.55	-8.10	0.00	-817.87	0.00	817.87	3,935.84	1,967.92	6,992.95	3,501.67	0.76	-0.27	0.177
28.00	-46.18	-8.10	0.00	-809.77	0.00	809.77	3,919.98	1,959.99	6,936.37	3,473.34	0.82	-0.28	0.177
28.50	-46.00	-8.09	0.00	-805.72	0.00	805.72	3,912.04	1,956.02	6,908.17	3,459.22	0.85	-0.29	0.176
29.00	-45.70	-8.08	0.00	-801.68	0.00	801.68	3,904.11	1,952.06	6,880.03	3,445.13	0.88	-0.29	0.174
30.00	-45.09	-8.07	0.00	-793.60	0.00	793.60	3,888.25	1,944.12	6,823.91	3,417.03	0.94	-0.30	0.173
31.00	-44.49	-8.06	0.00	-785.52	0.00	785.52	3,872.38	1,936.19	6,768.02	3,389.04	1.01	-0.31	0.173
32.00	-43.89	-8.05	0.00	-777.47	0.00	777.47	3,856.52	1,928.26	6,712.36	3,361.17	1.07	-0.32	0.172
33.00	-43.30	-8.03	0.00	-769.42	0.00	769.42	3,840.66	1,920.33	6,656.93	3,333.41	1.14	-0.33	0.171
34.00	-42.70	-8.02	0.00	-761.39	0.00	761.39	3,824.79	1,912.40	6,601.73	3,305.77	1.21	-0.34	0.171
35.00	-42.11	-8.01	0.00	-753.37	0.00	753.37	3,899.62	1,949.81	6,864.12	3,437.16	1.28	-0.35	0.166
36.00	-41.74	-8.00	0.00	-745.36	0.00	745.36	3,883.76	1,941.88	6,808.07	3,409.09	1.36	-0.36	0.165
37.00	-41.38	-7.98	0.00	-737.36	0.00	737.36	3,867.90	1,933.95	6,752.24	3,381.14	1.44	-0.37	0.164
38.00	-41.01	-7.97	0.00	-729.38	0.00	729.38	3,852.03	1,926.02	6,696.65	3,353.30	1.51	-0.38	0.163
39.00	-40.65	-7.96	0.00	-721.41	0.00	721.41	3,836.17	1,918.08	6,641.29	3,325.58	1.59	-0.39	0.163
40.00	-40.29	-7.95	0.00	-713.45	0.00	713.45	3,820.30	1,910.15	6,586.15	3,297.97	1.68	-0.40	0.162
41.00	-39.93	-7.93	0.00	-705.50	0.00	705.50	3,804.44	1,902.22	6,531.25	3,270.48	1.76	-0.41	0.161
42.00	-39.57	-7.92	0.00	-697.57	0.00	697.57	3,788.58	1,894.29	6,476.57	3,243.10	1.85	-0.42	0.161
43.00	-39.21	-7.91	0.00	-689.65	0.00	689.65	3,772.71	1,886.36	6,422.13	3,215.84	1.94	-0.43	0.160
43.00	-39.21	-7.91	0.00	-689.65	0.00	689.65	3,772.71	1,886.36	6,422.13	3,215.84	1.94	-0.43	0.160
44.00	-38.85	-7.89	0.00	-681.75	0.00	681.75	3,756.85	1,878.42	6,367.91	3,188.69	2.03	-0.44	0.159
45.00	-38.49	-7.88	0.00	-673.85	0.00	673.85	3,740.98	1,870.49	6,313.93	3,161.66	2.12	-0.45	0.158
46.00	-38.14	-7.86	0.00	-665.98	0.00	665.98	3,725.12	1,862.56	6,260.17	3,134.74	2.22	-0.46	0.158

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.00
Wind Load Factor :1.00

47.00	-37.78	-7.85	0.00	-658.11	0.00	658.11	3,709.26	1,854.63	6,206.65	3,107.94	2.31	-0.47	0.157
48.00	-37.43	-7.84	0.00	-650.26	0.00	650.26	3,693.39	1,846.70	6,153.35	3,081.25	2.41	-0.48	0.156
49.00	-37.07	-7.82	0.00	-642.42	0.00	642.42	3,677.53	1,838.76	6,100.29	3,054.68	2.51	-0.49	0.155
50.00	-36.72	-7.81	0.00	-634.60	0.00	634.60	3,661.66	1,830.83	6,047.45	3,028.22	2.62	-0.50	0.154
51.00	-36.37	-7.79	0.00	-626.79	0.00	626.79	3,645.80	1,822.90	5,994.84	3,001.88	2.72	-0.50	0.154
52.00	-36.02	-7.78	0.00	-619.00	0.00	619.00	3,629.94	1,814.97	5,942.47	2,975.65	2.83	-0.51	0.153
53.00	-35.67	-7.76	0.00	-611.22	0.00	611.22	3,614.07	1,807.04	5,890.32	2,949.54	2.94	-0.52	0.152
54.00	-35.32	-7.74	0.00	-603.46	0.00	603.46	3,598.21	1,799.10	5,838.41	2,923.54	3.05	-0.53	0.151
55.00	-34.98	-7.70	0.00	-595.72	0.00	595.72	3,582.34	1,791.17	5,786.72	2,897.66	3.16	-0.54	0.150
56.00	-34.63	-7.67	0.00	-588.02	0.00	588.02	3,566.48	1,783.24	5,735.26	2,871.89	3.27	-0.55	0.149
57.00	-34.28	-7.63	0.00	-580.35	0.00	580.35	3,550.62	1,775.31	5,684.03	2,846.24	3.39	-0.56	0.148
58.00	-33.94	-7.59	0.00	-572.72	0.00	572.72	3,534.75	1,767.38	5,633.04	2,820.71	3.51	-0.57	0.148
59.00	-33.43	-7.55	0.00	-565.12	0.00	565.12	3,518.89	1,759.44	5,582.27	2,795.28	3.63	-0.58	0.145
60.00	-32.93	-7.51	0.00	-557.57	0.00	557.57	3,503.02	1,751.51	5,531.73	2,769.98	3.75	-0.59	0.144
61.00	-32.43	-7.47	0.00	-550.06	0.00	550.06	3,487.16	1,743.58	5,481.43	2,744.79	3.88	-0.60	0.143
62.00	-31.93	-7.43	0.00	-542.58	0.00	542.58	3,471.30	1,735.65	5,431.35	2,719.71	4.00	-0.61	0.142
63.00	-31.43	-7.40	0.00	-535.15	0.00	535.15	3,455.43	1,727.72	5,381.50	2,694.75	4.13	-0.62	0.141
63.50	-31.19	-7.38	0.00	-531.45	0.00	531.45	3,158.12	1,579.06	5,037.43	2,522.46	4.20	-0.62	0.139
64.00	-31.04	-7.35	0.00	-527.76	0.00	527.76	3,152.80	1,576.40	5,017.53	2,512.49	4.26	-0.63	0.138
65.00	-30.75	-7.32	0.00	-520.40	0.00	520.40	3,142.13	1,571.07	4,977.80	2,492.60	4.40	-0.64	0.137
66.00	-30.46	-7.28	0.00	-513.09	0.00	513.09	3,131.44	1,565.72	4,938.17	2,472.75	4.53	-0.65	0.136
67.00	-30.17	-7.24	0.00	-505.81	0.00	505.81	3,120.71	1,560.35	4,898.65	2,452.96	4.67	-0.66	0.135
68.00	-29.88	-7.20	0.00	-498.57	0.00	498.57	3,109.92	1,554.96	4,859.19	2,433.21	4.81	-0.67	0.134
69.00	-29.60	-7.16	0.00	-491.36	0.00	491.36	3,095.65	1,547.82	4,814.46	2,410.81	4.95	-0.68	0.133
70.00	-29.31	-7.13	0.00	-484.20	0.00	484.20	3,081.37	1,540.68	4,769.94	2,388.51	5.09	-0.69	0.132
71.00	-29.02	-7.09	0.00	-477.07	0.00	477.07	3,067.09	1,533.55	4,725.62	2,366.32	5.24	-0.70	0.131
72.00	-28.74	-7.05	0.00	-469.98	0.00	469.98	3,052.81	1,526.41	4,681.51	2,344.23	5.38	-0.71	0.130
73.00	-28.45	-7.01	0.00	-462.94	0.00	462.94	3,038.54	1,519.27	4,637.61	2,322.25	5.53	-0.72	0.129
74.00	-28.17	-6.97	0.00	-455.92	0.00	455.92	3,024.26	1,512.13	4,593.91	2,300.37	5.69	-0.73	0.128
75.00	-27.89	-6.93	0.00	-448.95	0.00	448.95	3,009.98	1,504.99	4,550.42	2,278.59	5.84	-0.74	0.127
76.00	-27.60	-6.89	0.00	-442.02	0.00	442.02	2,995.70	1,497.85	4,507.14	2,256.92	6.00	-0.75	0.126
77.00	-27.32	-6.85	0.00	-435.13	0.00	435.13	2,981.43	1,490.71	4,464.06	2,235.35	6.16	-0.76	0.125
78.00	-27.04	-6.82	0.00	-428.27	0.00	428.27	2,967.15	1,483.57	4,421.19	2,213.88	6.32	-0.77	0.123
79.00	-26.76	-6.78	0.00	-421.46	0.00	421.46	2,952.87	1,476.44	4,378.53	2,192.52	6.48	-0.78	0.122
80.00	-26.48	-6.74	0.00	-414.68	0.00	414.68	2,938.59	1,469.30	4,336.07	2,171.26	6.65	-0.79	0.121
81.00	-26.20	-6.70	0.00	-407.94	0.00	407.94	2,924.32	1,462.16	4,293.83	2,150.10	6.81	-0.80	0.120
82.00	-25.93	-6.66	0.00	-401.25	0.00	401.25	2,910.04	1,455.02	4,251.78	2,129.05	6.98	-0.81	0.119
83.00	-25.65	-6.62	0.00	-394.59	0.00	394.59	2,895.76	1,447.88	4,209.95	2,108.10	7.15	-0.82	0.118
84.00	-25.37	-6.58	0.00	-387.97	0.00	387.97	2,881.48	1,440.74	4,168.32	2,087.26	7.33	-0.83	0.117
85.00	-25.10	-6.54	0.00	-381.39	0.00	381.39	2,867.21	1,433.60	4,126.90	2,066.52	7.50	-0.84	0.116
86.00	-24.82	-6.50	0.00	-374.85	0.00	374.85	2,852.93	1,426.46	4,085.69	2,045.88	7.68	-0.85	0.115
87.00	-24.55	-6.46	0.00	-368.35	0.00	368.35	2,838.65	1,419.33	4,044.68	2,025.35	7.86	-0.86	0.113
88.00	-24.27	-6.42	0.00	-361.90	0.00	361.90	2,824.37	1,412.19	4,003.88	2,004.91	8.04	-0.87	0.112
89.00	-23.88	-6.38	0.00	-355.48	0.00	355.48	2,810.09	1,405.05	3,963.28	1,984.59	8.23	-0.88	0.110
90.00	-23.49	-6.33	0.00	-349.10	0.00	349.10	2,795.82	1,397.91	3,922.90	1,964.36	8.41	-0.89	0.109
91.00	-23.10	-6.29	0.00	-342.77	0.00	342.77	2,781.54	1,390.77	3,882.72	1,944.24	8.60	-0.90	0.107
92.00	-22.72	-6.25	0.00	-336.48	0.00	336.48	2,767.26	1,383.63	3,842.74	1,924.23	8.79	-0.91	0.106
93.00	-22.33	-6.20	0.00	-330.23	0.00	330.23	2,292.76	1,146.38	3,238.31	1,621.56	8.98	-0.92	0.117
94.00	-22.08	-6.16	0.00	-324.03	0.00	324.03	2,284.25	1,142.13	3,209.75	1,607.26	9.17	-0.93	0.116
95.00	-21.83	-6.12	0.00	-317.86	0.00	317.86	2,275.71	1,137.86	3,181.27	1,593.00	9.37	-0.94	0.114
96.00	-21.58	-6.08	0.00	-311.74	0.00	311.74	2,267.14	1,133.57	3,152.86	1,578.78	9.57	-0.95	0.113
97.00	-21.34	-6.04	0.00	-305.66	0.00	305.66	2,258.54	1,129.27	3,124.54	1,564.59	9.77	-0.96	0.111
98.00	-21.09	-6.00	0.00	-299.62	0.00	299.62	2,249.90	1,124.95	3,096.30	1,550.45	9.97	-0.97	0.109
99.00	-20.84	-5.96	0.00	-293.62	0.00	293.62	2,241.24	1,120.62	3,068.14	1,536.35	10.17	-0.98	0.108
100.00	-20.60	-5.92	0.00	-287.66	0.00	287.66	2,232.54	1,116.27	3,040.06	1,522.29	10.38	-0.99	0.106
101.00	-20.36	-5.88	0.00	-281.74	0.00	281.74	2,223.81	1,111.90	3,012.06	1,508.27	10.59	-1.00	0.105
102.00	-20.11	-5.84	0.00	-275.86	0.00	275.86	2,215.04	1,107.52	2,984.14	1,494.29	10.80	-1.01	0.103

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.00
Wind Load Factor :1.00

103.00	-19.87	-5.80	0.00	-270.03	0.00	270.03	2,206.25	1,103.12	2,956.31	1,480.35	11.01	-1.01	0.102
104.00	-19.63	-5.75	0.00	-264.23	0.00	264.23	2,197.42	1,098.71	2,928.57	1,466.46	11.22	-1.02	0.100
105.00	-19.38	-5.71	0.00	-258.48	0.00	258.48	2,188.56	1,094.28	2,900.91	1,452.61	11.44	-1.03	0.099
105.00	-19.38	-5.71	0.00	-258.48	0.00	258.48	2,188.56	1,094.28	2,900.91	1,452.61	11.44	-1.03	0.187
106.00	-19.21	-5.68	0.00	-252.76	0.00	252.76	2,179.67	1,089.83	2,873.33	1,438.80	11.65	-1.04	0.185
107.00	-19.03	-5.64	0.00	-247.09	0.00	247.09	2,170.74	1,085.37	2,845.85	1,425.04	11.87	-1.06	0.182
108.00	-18.86	-5.60	0.00	-241.45	0.00	241.45	2,161.78	1,080.89	2,818.44	1,411.32	12.10	-1.08	0.180
109.00	-18.68	-5.56	0.00	-235.85	0.00	235.85	2,150.55	1,075.28	2,788.22	1,396.18	12.32	-1.09	0.178
110.00	-18.51	-5.53	0.00	-230.29	0.00	230.29	2,138.65	1,069.33	2,757.31	1,380.70	12.55	-1.11	0.175
111.00	-18.34	-5.50	0.00	-224.76	0.00	224.76	2,126.76	1,063.38	2,726.56	1,365.31	12.79	-1.13	0.173
112.00	-18.17	-5.48	0.00	-219.27	0.00	219.27	2,114.86	1,057.43	2,695.99	1,350.00	13.03	-1.14	0.171
113.00	-18.00	-5.46	0.00	-213.78	0.00	213.78	2,102.96	1,051.48	2,665.59	1,334.78	13.27	-1.16	0.169
114.00	-17.82	-5.42	0.00	-208.33	0.00	208.33	2,091.06	1,045.53	2,635.36	1,319.64	13.51	-1.17	0.166
115.00	-17.65	-5.39	0.00	-202.90	0.00	202.90	2,079.16	1,039.58	2,605.31	1,304.59	13.76	-1.19	0.164
116.00	-17.49	-5.36	0.00	-197.52	0.00	197.52	2,067.27	1,033.63	2,575.43	1,289.63	14.01	-1.21	0.162
116.50	-17.40	-5.34	0.00	-194.84	0.00	194.84	2,061.32	1,030.66	2,560.55	1,282.18	14.14	-1.21	0.160
117.00	-17.28	-5.31	0.00	-192.17	0.00	192.17	2,055.37	1,027.68	2,545.72	1,274.75	14.27	-1.22	0.159
118.00	-17.02	-5.28	0.00	-186.86	0.00	186.86	2,043.47	1,021.73	2,516.18	1,259.96	14.52	-1.24	0.157
119.00	-16.77	-5.24	0.00	-181.58	0.00	181.58	2,031.57	1,015.79	2,486.81	1,245.26	14.78	-1.25	0.154
120.00	-16.53	-5.20	0.00	-176.34	0.00	176.34	2,019.67	1,009.84	2,457.62	1,230.64	15.05	-1.27	0.152
121.00	-16.28	-5.16	0.00	-171.15	0.00	171.15	1,562.89	781.45	1,930.84	966.86	15.32	-1.28	0.187
122.00	-16.13	-5.12	0.00	-165.99	0.00	165.99	1,556.55	778.28	1,911.74	957.29	15.59	-1.30	0.184
123.00	-15.98	-5.09	0.00	-160.86	0.00	160.86	1,550.18	775.09	1,892.68	947.75	15.86	-1.32	0.180
124.00	-15.84	-5.05	0.00	-155.77	0.00	155.77	1,543.77	771.89	1,873.68	938.23	16.14	-1.33	0.176
125.00	-15.69	-5.02	0.00	-150.72	0.00	150.72	1,537.34	768.67	1,854.73	928.74	16.42	-1.35	0.173
126.00	-15.55	-4.98	0.00	-145.71	0.00	145.71	1,530.87	765.43	1,835.84	919.28	16.71	-1.37	0.169
127.00	-12.56	-3.90	0.00	-140.72	0.00	140.72	1,524.37	762.18	1,817.00	909.85	16.99	-1.38	0.163
128.00	-12.43	-3.87	0.00	-136.82	0.00	136.82	1,517.84	758.92	1,798.22	900.45	17.28	-1.40	0.160
129.00	-12.30	-3.83	0.00	-132.96	0.00	132.96	1,511.27	755.64	1,779.50	891.07	17.58	-1.42	0.157
130.00	-12.18	-3.79	0.00	-129.13	0.00	129.13	1,504.67	752.34	1,760.83	881.72	17.88	-1.43	0.155
131.00	-12.05	-3.76	0.00	-125.33	0.00	125.33	1,498.04	749.02	1,742.22	872.40	18.18	-1.45	0.152
132.00	-11.92	-3.72	0.00	-121.58	0.00	121.58	1,491.38	745.69	1,723.67	863.12	18.48	-1.46	0.149
133.00	-11.79	-3.68	0.00	-117.86	0.00	117.86	1,484.69	742.34	1,705.18	853.86	18.79	-1.48	0.146
134.00	-11.67	-3.65	0.00	-114.17	0.00	114.17	1,477.96	738.98	1,686.75	844.63	19.10	-1.49	0.143
135.00	-11.54	-3.61	0.00	-110.52	0.00	110.52	1,471.20	735.60	1,668.38	835.43	19.42	-1.51	0.140
136.00	-11.42	-3.58	0.00	-106.91	0.00	106.91	1,464.41	732.21	1,650.07	826.26	19.73	-1.52	0.137
137.00	-11.29	-3.54	0.00	-103.33	0.00	103.33	1,457.59	728.80	1,631.83	817.13	20.05	-1.54	0.134
138.00	-11.17	-3.50	0.00	-99.80	0.00	99.80	1,450.74	725.37	1,613.64	808.02	20.38	-1.55	0.131
139.00	-11.04	-3.47	0.00	-96.29	0.00	96.29	1,443.85	721.92	1,595.53	798.95	20.70	-1.56	0.128
140.00	-10.92	-3.43	0.00	-92.82	0.00	92.82	1,436.93	718.47	1,577.47	789.91	21.03	-1.58	0.125
141.00	-10.79	-3.40	0.00	-89.39	0.00	89.39	1,429.98	714.99	1,559.48	780.90	21.37	-1.59	0.122
142.00	-10.67	-3.36	0.00	-86.00	0.00	86.00	1,423.00	711.50	1,541.56	771.93	21.70	-1.60	0.119
143.00	-10.55	-3.32	0.00	-82.64	0.00	82.64	1,415.98	707.99	1,523.71	762.99	22.04	-1.62	0.116
144.00	-10.43	-3.29	0.00	-79.32	0.00	79.32	1,408.93	704.47	1,505.92	754.08	22.38	-1.63	0.113
145.00	-10.30	-3.25	0.00	-76.03	0.00	76.03	1,401.85	700.93	1,488.20	745.20	22.72	-1.64	0.109
146.00	-8.80	-2.74	0.00	-72.78	0.00	72.78	1,394.74	697.37	1,470.54	736.36	23.07	-1.66	0.105
147.00	-8.70	-2.72	0.00	-70.04	0.00	70.04	1,387.60	693.80	1,452.96	727.56	23.41	-1.67	0.103
148.00	-8.59	-2.71	0.00	-67.31	0.00	67.31	1,379.83	689.92	1,434.84	718.48	23.76	-1.68	0.100
149.00	-8.49	-2.69	0.00	-64.61	0.00	64.61	1,370.32	685.16	1,415.01	708.56	24.12	-1.69	0.097
150.00	-8.33	-2.67	0.00	-61.91	0.00	61.91	1,360.80	680.40	1,395.33	698.70	24.47	-1.70	0.095
151.00	-8.17	-2.66	0.00	-59.24	0.00	59.24	1,351.28	675.64	1,375.78	688.91	24.83	-1.71	0.092
152.00	-8.02	-2.64	0.00	-56.58	0.00	56.58	1,341.76	670.88	1,356.37	679.19	25.19	-1.72	0.089
152.50	-7.94	-2.63	0.00	-55.26	0.00	55.26	942.35	471.17	968.66	485.05	25.37	-1.73	0.122
153.00	-7.90	-2.62	0.00	-53.95	0.00	53.95	940.20	470.10	963.05	482.24	25.55	-1.73	0.120
154.00	-7.81	-2.61	0.00	-51.33	0.00	51.33	935.87	467.94	951.84	476.63	25.92	-1.75	0.116
155.00	-7.73	-2.59	0.00	-48.72	0.00	48.72	931.51	465.76	940.66	471.03	26.28	-1.76	0.112
156.00	-7.64	-2.57	0.00	-46.13	0.00	46.13	927.12	463.56	929.51	465.45	26.65	-1.77	0.107

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Load Case: 1.0D + 1.0W Serviceability 60 mph 33 Iterations

Gust Response Factor :1.10 Wind Importance Factor 1.00
Dead Load Factor :1.00
Wind Load Factor :1.00

157.00	-7.55	-2.56	0.00	-43.56	0.00	43.56	922.70	461.35	918.40	459.88	27.03	-1.78	0.103
158.00	-7.47	-2.54	0.00	-41.00	0.00	41.00	918.25	459.12	907.31	454.33	27.40	-1.79	0.098
159.00	-7.38	-2.53	0.00	-38.46	0.00	38.46	913.76	456.88	896.26	448.80	27.78	-1.80	0.094
160.00	-7.30	-2.51	0.00	-35.93	0.00	35.93	909.24	454.62	885.24	443.28	28.16	-1.82	0.089
161.00	-7.22	-2.50	0.00	-33.42	0.00	33.42	904.69	452.35	874.26	437.78	28.54	-1.83	0.084
162.00	-7.13	-2.48	0.00	-30.92	0.00	30.92	900.11	450.06	863.31	432.30	28.92	-1.83	0.079
163.00	-7.05	-2.46	0.00	-28.44	0.00	28.44	895.50	447.75	852.40	426.83	29.31	-1.84	0.075
164.00	-6.97	-2.45	0.00	-25.98	0.00	25.98	890.85	445.42	841.52	421.39	29.69	-1.85	0.069
165.00	-6.88	-2.43	0.00	-23.53	0.00	23.53	886.17	443.09	830.68	415.96	30.08	-1.86	0.064
166.00	-6.80	-2.42	0.00	-21.09	0.00	21.09	881.46	440.73	819.88	410.55	30.47	-1.87	0.059
167.00	-3.42	-1.32	0.00	-18.68	0.00	18.68	876.72	438.36	809.12	405.16	30.86	-1.87	0.050
168.00	-3.36	-1.30	0.00	-17.36	0.00	17.36	871.94	435.97	798.40	399.79	31.26	-1.88	0.047
169.00	-3.29	-1.29	0.00	-16.05	0.00	16.05	867.13	433.57	787.71	394.44	31.65	-1.88	0.045
170.00	-3.22	-1.27	0.00	-14.76	0.00	14.76	862.29	431.15	777.07	389.11	32.05	-1.89	0.042
171.00	-3.08	-1.14	0.00	-13.49	0.00	13.49	857.42	428.71	766.47	383.80	32.44	-1.90	0.039
172.00	-3.02	-1.12	0.00	-12.35	0.00	12.35	852.52	426.26	755.91	378.52	32.84	-1.90	0.036
173.00	-2.96	-1.11	0.00	-11.23	0.00	11.23	847.58	423.79	745.39	373.25	33.24	-1.90	0.034
174.00	-2.90	-1.09	0.00	-10.12	0.00	10.12	842.61	421.31	734.92	368.01	33.64	-1.91	0.031
175.00	-2.84	-1.08	0.00	-9.03	0.00	9.03	837.61	418.81	724.49	362.78	34.04	-1.91	0.028
176.00	-2.78	-1.06	0.00	-7.95	0.00	7.95	832.58	416.29	714.11	357.59	34.44	-1.92	0.026
177.00	-2.72	-1.05	0.00	-6.89	0.00	6.89	827.51	413.76	703.77	352.41	34.84	-1.92	0.023
178.00	-2.66	-1.03	0.00	-5.84	0.00	5.84	822.42	411.21	693.48	347.26	35.24	-1.92	0.020
179.00	-2.60	-1.02	0.00	-4.81	0.00	4.81	817.29	408.64	683.23	342.12	35.65	-1.92	0.017
180.00	-2.54	-1.00	0.00	-3.79	0.00	3.79	812.13	406.06	673.04	337.02	36.05	-1.93	0.014
181.00	-2.48	-0.99	0.00	-2.78	0.00	2.78	806.93	403.47	662.89	331.94	36.45	-1.93	0.011
182.00	-2.42	-0.98	0.00	-1.79	0.00	1.79	801.71	400.85	652.79	326.88	36.86	-1.93	0.009
183.00	0.00	-0.89	0.00	-0.82	0.00	0.82	796.45	398.23	642.74	321.85	37.26	-1.93	0.003

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Equivalent Lateral Forces Method Analysis

(Based on ASCE7-10 Chapters 11, 12, 15)

Spectral Response Acceleration for Short Period (S_s):	0.19	
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06	
Long-Period Transition Period (T_L):	6	
Importance Factor (I_E):	1.00	
Site Coefficient F_a:	1.60	
Site Coeffiecient F_v:	2.40	
Response Modification Coefficient (R):	1.50	
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20	
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10	
Seismic Response Coefficient (C_s):	0.03	
Upper Limit C_s	0.03	
Lower Limit C_s	0.03	
Period based on Rayleigh Method (sec):	2.88	
Redundancy Factor (p):	1.30	
Seismic Force Distribution Exponent (k):	2.00	
Total Unfactored Dead Load:	56.59	k
Seismic Base Shear (E):	2.21	k

Load Case (1.2 + 0.2Sds) * DL + E ELFM

Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	58	1,929	0.004	8	72
187	181.50	58	1,919	0.003	8	72
186	180.50	59	1,910	0.003	8	73
185	179.50	59	1,900	0.003	8	73
184	178.50	59	1,890	0.003	8	74
183	177.50	60	1,880	0.003	8	74
182	176.50	60	1,870	0.003	8	74
181	175.50	60	1,860	0.003	7	75
180	174.50	61	1,849	0.003	7	75
179	173.50	61	1,839	0.003	7	76
178	172.50	61	1,828	0.003	7	76
177	171.50	62	1,818	0.003	7	77
176	170.50	67	1,950	0.004	8	83
175	169.50	67	1,937	0.004	8	84
174	168.50	68	1,925	0.004	8	84
173	167.50	68	1,912	0.003	8	85
172	166.50	82	2,278	0.004	9	102
171	165.50	83	2,261	0.004	9	102
170	164.50	83	2,243	0.004	9	103
169	163.50	83	2,225	0.004	9	103
168	162.50	84	2,208	0.004	9	104
167	161.50	84	2,190	0.004	9	104
166	160.50	84	2,172	0.004	9	105

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165	159.50	85	2,154	0.004	9	105
164	158.50	85	2,136	0.004	9	105
163	157.50	85	2,118	0.004	9	106
162	156.50	86	2,100	0.004	8	106
161	155.50	86	2,081	0.004	8	107
160	154.50	86	2,063	0.004	8	107
159	153.50	87	2,045	0.004	8	108
158	152.75	44	1,016	0.002	4	54
157	152.25	77	1,781	0.003	7	95
156	151.50	154	3,542	0.006	14	191
155	150.50	155	3,514	0.006	14	192
154	149.50	156	3,486	0.006	14	194
153	148.50	105	2,309	0.004	9	130
152	147.50	105	2,289	0.004	9	131
151	146.50	106	2,268	0.004	9	131
150	145.50	121	2,560	0.005	10	150
149	144.50	121	2,534	0.005	10	151
148	143.50	122	2,509	0.005	10	151
147	142.50	122	2,484	0.005	10	152
146	141.50	123	2,459	0.004	10	152
145	140.50	123	2,433	0.004	10	153
144	139.50	124	2,408	0.004	10	154
143	138.50	124	2,383	0.004	10	154
142	137.50	125	2,357	0.004	9	155
141	136.50	125	2,332	0.004	9	155
140	135.50	126	2,307	0.004	9	156
139	134.50	126	2,281	0.004	9	156
138	133.50	127	2,256	0.004	9	157
137	132.50	127	2,230	0.004	9	158
136	131.50	128	2,205	0.004	9	158
135	130.50	128	2,180	0.004	9	159
134	129.50	128	2,154	0.004	9	159
133	128.50	129	2,129	0.004	9	160
132	127.50	129	2,104	0.004	8	161
131	126.50	144	2,311	0.004	9	179
130	125.50	145	2,282	0.004	9	180
129	124.50	145	2,253	0.004	9	180
128	123.50	146	2,225	0.004	9	181
127	122.50	146	2,196	0.004	9	182
126	121.50	147	2,167	0.004	9	182
125	120.50	247	3,589	0.007	14	307
124	119.50	248	3,545	0.006	14	308
123	118.50	249	3,501	0.006	14	309
122	117.50	250	3,457	0.006	14	311
121	116.75	126	1,712	0.003	7	156
120	116.25	84	1,137	0.002	5	104
119	115.50	169	2,250	0.004	9	209
118	114.50	169	2,219	0.004	9	210
117	113.50	170	2,188	0.004	9	211
116	112.50	170	2,157	0.004	9	211
115	111.50	171	2,127	0.004	9	212
114	110.50	172	2,096	0.004	8	213
113	109.50	172	2,065	0.004	8	214
112	108.50	173	2,034	0.004	8	214
111	107.50	173	2,004	0.004	8	215
110	106.50	174	1,974	0.004	8	216
109	105.50	175	1,943	0.004	8	217
108	104.50	242	2,642	0.005	11	300
107	103.50	243	2,598	0.005	10	301
106	102.50	243	2,555	0.005	10	302
105	101.50	244	2,511	0.005	10	302
104	100.50	244	2,468	0.004	10	303
103	99.50	245	2,425	0.004	10	304
102	98.50	246	2,382	0.004	10	305

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101	97.50	246	2,340	0.004	9	305
100	96.50	247	2,297	0.004	9	306
99	95.50	247	2,255	0.004	9	307
98	94.50	248	2,214	0.004	9	308
97	93.50	248	2,172	0.004	9	308
96	92.50	386	3,303	0.006	13	479
95	91.50	387	3,243	0.006	13	481
94	90.50	389	3,183	0.006	13	482
93	89.50	390	3,123	0.006	13	484
92	88.50	391	3,064	0.006	12	485
91	87.50	273	2,091	0.004	8	339
90	86.50	274	2,049	0.004	8	340
89	85.50	275	2,007	0.004	8	341
88	84.50	275	1,965	0.004	8	342
87	83.50	276	1,924	0.004	8	342
86	82.50	277	1,883	0.003	8	343
85	81.50	277	1,842	0.003	7	344
84	80.50	278	1,802	0.003	7	345
83	79.50	279	1,762	0.003	7	346
82	78.50	279	1,722	0.003	7	347
81	77.50	280	1,683	0.003	7	348
80	76.50	281	1,644	0.003	7	349
79	75.50	282	1,605	0.003	6	349
78	74.50	282	1,567	0.003	6	350
77	73.50	283	1,529	0.003	6	351
76	72.50	284	1,491	0.003	6	352
75	71.50	284	1,454	0.003	6	353
74	70.50	285	1,417	0.003	6	354
73	69.50	286	1,381	0.003	6	355
72	68.50	287	1,345	0.002	5	356
71	67.50	287	1,309	0.002	5	356
70	66.50	288	1,274	0.002	5	357
69	65.50	289	1,239	0.002	5	358
68	64.50	289	1,204	0.002	5	359
67	63.75	145	589	0.001	2	180
66	63.25	248	992	0.002	4	308
65	62.50	497	1,942	0.004	8	617
64	61.50	499	1,886	0.003	8	619
63	60.50	500	1,831	0.003	7	621
62	59.50	502	1,777	0.003	7	623
61	58.50	504	1,724	0.003	7	625
60	57.50	344	1,136	0.002	5	426
59	56.50	344	1,100	0.002	4	427
58	55.50	345	1,064	0.002	4	429
57	54.50	346	1,029	0.002	4	430
56	53.50	347	994	0.002	4	431
55	52.50	348	960	0.002	4	432
54	51.50	349	926	0.002	4	433
53	50.50	350	893	0.002	4	434
52	49.50	351	860	0.002	3	436
51	48.50	352	828	0.002	3	437
50	47.50	353	796	0.001	3	438
49	46.50	354	765	0.001	3	439
48	45.50	355	735	0.001	3	440
47	44.50	356	705	0.001	3	442
46	43.50	357	675	0.001	3	443
45	42.50	358	646	0.001	3	444
44	41.50	359	618	0.001	2	445
43	40.50	360	590	0.001	2	446
42	39.50	361	563	0.001	2	447
41	38.50	362	536	0.001	2	449
40	37.50	362	510	0.001	2	450
39	36.50	363	484	0.001	2	451
38	35.50	364	459	0.001	2	452

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37	34.50	593	705	0.001	3	735
36	33.50	594	667	0.001	3	738
35	32.50	596	630	0.001	3	740
34	31.50	598	594	0.001	2	742
33	30.50	600	558	0.001	2	745
32	29.50	602	524	0.001	2	747
31	28.75	302	249	0.000	1	374
30	28.25	183	146	0.000	1	227
29	27.50	366	277	0.001	1	455
28	26.50	367	258	0.000	1	456
27	25.50	368	240	0.000	1	457
26	24.50	369	222	0.000	1	458
25	23.50	370	204	0.000	1	459
24	22.75	185	96	0.000	0	230
23	22.25	186	92	0.000	0	230
22	21.50	372	172	0.000	1	462
21	20.50	373	157	0.000	1	463
20	19.50	374	142	0.000	1	464
19	18.50	375	128	0.000	1	465
18	17.50	376	115	0.000	0	466
17	16.50	377	103	0.000	0	468
16	15.50	378	91	0.000	0	469
15	14.50	379	80	0.000	0	470
14	13.50	380	69	0.000	0	471
13	12.50	381	59	0.000	0	472
12	11.50	382	50	0.000	0	473
11	10.50	383	42	0.000	0	475
10	9.50	383	35	0.000	0	476
9	8.50	384	28	0.000	0	477
8	7.50	385	22	0.000	0	478
7	6.50	386	16	0.000	0	479
6	5.50	387	12	0.000	0	481
5	4.50	322	7	0.000	0	400
4	3.50	323	4	0.000	0	401
3	2.50	324	2	0.000	0	402
2	1.50	325	1	0.000	0	404
1	0.50	326	0	0.000	0	405
DragonWave Horizon C	183.00	21	710	0.001	3	26
NextNet BTS-2500	183.00	105	3,516	0.006	14	130
Decibel DB844H90E-XY	183.00	84	2,813	0.005	11	104
Argus LLPX310R	183.00	86	2,873	0.005	12	106
DragonWave A-ANT-18G	183.00	54	1,815	0.003	7	67
Andrew 844G65VTZASX	183.00	48	1,607	0.003	6	60
Flat Platform w/ Han	183.00	2,000	66,978	0.122	269	2,481
RFS APXV18-206517S-C	171.00	79	2,316	0.004	9	98
Commscope WCS-IMFQ-A	167.00	30	823	0.001	3	37
Powerwave Allgon LGP	167.00	42	1,180	0.002	5	52
Powerwave Allgon LGP	167.00	85	2,359	0.004	9	105
Raycap DC6-48-60-18-	167.00	40	1,116	0.002	4	50
Ericsson RRUS 11 (Ba	167.00	132	3,681	0.007	15	164
Ericsson RRUS 32 B2	167.00	159	4,434	0.008	18	197
Ericsson RRUS-32	167.00	231	6,442	0.012	26	287
Powerwave Allgon 777	167.00	105	2,928	0.005	12	130
CCI OPA-65R-LCUU-H4	167.00	171	4,769	0.009	19	212
Quintel QS66512-2	167.00	333	9,287	0.017	37	413
Flat Platform w/ Han	167.00	2,000	55,778	0.102	224	2,481
Andrew ETW200VS12UB	146.00	33	703	0.001	3	41
Andrew ETW190VS12UB	146.00	33	703	0.001	3	41
Andrew SBNHH-1D65A	146.00	123	2,615	0.005	11	152
Flat Light Sector Fr	146.00	1,200	25,579	0.047	103	1,489
Kathrein Scala Smart	145.00	10	208	0.000	1	12
RFS FD9R6004/1C-3L	127.00	19	300	0.001	1	23
Alcatel-Lucent RRH2X	127.00	138	2,226	0.004	9	171
Alcatel-Lucent RRH2X	127.00	132	2,129	0.004	9	164

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Alcatel-Lucent RRH2x	127.00	132	2,129	0.004	9	164
RFS DB-T1-6Z-8AB-0Z	127.00	44	710	0.001	3	55
RFS DB-T1-6Z-8AB-0Z	127.00	44	710	0.001	3	55
Andrew HBXX-6516DS-A	127.00	92	1,481	0.003	6	114
Andrew LNX-4514DS-A1	127.00	89	1,427	0.003	6	110
Antel BXA-80063/6CF	127.00	45	721	0.001	3	55
Andrew HBXX-6517DS-A	127.00	129	2,081	0.004	8	160
Flat Platform w/ Han	127.00	2,000	32,258	0.059	130	2,481
Thales PCS VP/360/2	7.00	1	0	0.000	0	1
Stand-Off	7.00	75	4	0.000	0	93
		56,588	549,214	1.000	2,207	70,212

Load Case (0.9 - 0.2Sds) * DL + E ELFM Seismic (Reduced DL) Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	58	1,929	0.004	8	50
187	181.50	58	1,919	0.003	8	50
186	180.50	59	1,910	0.003	8	50
185	179.50	59	1,900	0.003	8	51
184	178.50	59	1,890	0.003	8	51
183	177.50	60	1,880	0.003	8	51
182	176.50	60	1,870	0.003	8	52
181	175.50	60	1,860	0.003	7	52
180	174.50	61	1,849	0.003	7	52
179	173.50	61	1,839	0.003	7	52
178	172.50	61	1,828	0.003	7	53
177	171.50	62	1,818	0.003	7	53
176	170.50	67	1,950	0.004	8	58
175	169.50	67	1,937	0.004	8	58
174	168.50	68	1,925	0.004	8	58
173	167.50	68	1,912	0.003	8	59
172	166.50	82	2,278	0.004	9	71
171	165.50	83	2,261	0.004	9	71
170	164.50	83	2,243	0.004	9	71
169	163.50	83	2,225	0.004	9	72
168	162.50	84	2,208	0.004	9	72
167	161.50	84	2,190	0.004	9	72
166	160.50	84	2,172	0.004	9	72
165	159.50	85	2,154	0.004	9	73
164	158.50	85	2,136	0.004	9	73
163	157.50	85	2,118	0.004	9	73
162	156.50	86	2,100	0.004	8	74
161	155.50	86	2,081	0.004	8	74
160	154.50	86	2,063	0.004	8	74
159	153.50	87	2,045	0.004	8	75
158	152.75	44	1,016	0.002	4	37
157	152.25	77	1,781	0.003	7	66
156	151.50	154	3,542	0.006	14	133
155	150.50	155	3,514	0.006	14	133
154	149.50	156	3,486	0.006	14	134
153	148.50	105	2,309	0.004	9	90
152	147.50	105	2,289	0.004	9	90
151	146.50	106	2,268	0.004	9	91
150	145.50	121	2,560	0.005	10	104
149	144.50	121	2,534	0.005	10	104
148	143.50	122	2,509	0.005	10	105
147	142.50	122	2,484	0.005	10	105
146	141.50	123	2,459	0.004	10	106
145	140.50	123	2,433	0.004	10	106

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144	139.50	124	2,408	0.004	10	106
143	138.50	124	2,383	0.004	10	107
142	137.50	125	2,357	0.004	9	107
141	136.50	125	2,332	0.004	9	108
140	135.50	126	2,307	0.004	9	108
139	134.50	126	2,281	0.004	9	108
138	133.50	127	2,256	0.004	9	109
137	132.50	127	2,230	0.004	9	109
136	131.50	128	2,205	0.004	9	110
135	130.50	128	2,180	0.004	9	110
134	129.50	128	2,154	0.004	9	110
133	128.50	129	2,129	0.004	9	111
132	127.50	129	2,104	0.004	8	111
131	126.50	144	2,311	0.004	9	124
130	125.50	145	2,282	0.004	9	125
129	124.50	145	2,253	0.004	9	125
128	123.50	146	2,225	0.004	9	125
127	122.50	146	2,196	0.004	9	126
126	121.50	147	2,167	0.004	9	126
125	120.50	247	3,589	0.007	14	212
124	119.50	248	3,545	0.006	14	213
123	118.50	249	3,501	0.006	14	214
122	117.50	250	3,457	0.006	14	215
121	116.75	126	1,712	0.003	7	108
120	116.25	84	1,137	0.002	5	72
119	115.50	169	2,250	0.004	9	145
118	114.50	169	2,219	0.004	9	145
117	113.50	170	2,188	0.004	9	146
116	112.50	170	2,157	0.004	9	146
115	111.50	171	2,127	0.004	9	147
114	110.50	172	2,096	0.004	8	147
113	109.50	172	2,065	0.004	8	148
112	108.50	173	2,034	0.004	8	148
111	107.50	173	2,004	0.004	8	149
110	106.50	174	1,974	0.004	8	150
109	105.50	175	1,943	0.004	8	150
108	104.50	242	2,642	0.005	11	208
107	103.50	243	2,598	0.005	10	208
106	102.50	243	2,555	0.005	10	209
105	101.50	244	2,511	0.005	10	209
104	100.50	244	2,468	0.004	10	210
103	99.50	245	2,425	0.004	10	210
102	98.50	246	2,382	0.004	10	211
101	97.50	246	2,340	0.004	9	211
100	96.50	247	2,297	0.004	9	212
99	95.50	247	2,255	0.004	9	212
98	94.50	248	2,214	0.004	9	213
97	93.50	248	2,172	0.004	9	214
96	92.50	386	3,303	0.006	13	332
95	91.50	387	3,243	0.006	13	333
94	90.50	389	3,183	0.006	13	334
93	89.50	390	3,123	0.006	13	335
92	88.50	391	3,064	0.006	12	336
91	87.50	273	2,091	0.004	8	235
90	86.50	274	2,049	0.004	8	235
89	85.50	275	2,007	0.004	8	236
88	84.50	275	1,965	0.004	8	236
87	83.50	276	1,924	0.004	8	237
86	82.50	277	1,883	0.003	8	238
85	81.50	277	1,842	0.003	7	238
84	80.50	278	1,802	0.003	7	239
83	79.50	279	1,762	0.003	7	240
82	78.50	279	1,722	0.003	7	240
81	77.50	280	1,683	0.003	7	241

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80	76.50	281	1,644	0.003	7	241
79	75.50	282	1,605	0.003	6	242
78	74.50	282	1,567	0.003	6	243
77	73.50	283	1,529	0.003	6	243
76	72.50	284	1,491	0.003	6	244
75	71.50	284	1,454	0.003	6	244
74	70.50	285	1,417	0.003	6	245
73	69.50	286	1,381	0.003	6	246
72	68.50	287	1,345	0.002	5	246
71	67.50	287	1,309	0.002	5	247
70	66.50	288	1,274	0.002	5	247
69	65.50	289	1,239	0.002	5	248
68	64.50	289	1,204	0.002	5	249
67	63.75	145	589	0.001	2	125
66	63.25	248	992	0.002	4	213
65	62.50	497	1,942	0.004	8	427
64	61.50	499	1,886	0.003	8	428
63	60.50	500	1,831	0.003	7	430
62	59.50	502	1,777	0.003	7	431
61	58.50	504	1,724	0.003	7	433
60	57.50	344	1,136	0.002	5	295
59	56.50	344	1,100	0.002	4	296
58	55.50	345	1,064	0.002	4	297
57	54.50	346	1,029	0.002	4	298
56	53.50	347	994	0.002	4	298
55	52.50	348	960	0.002	4	299
54	51.50	349	926	0.002	4	300
53	50.50	350	893	0.002	4	301
52	49.50	351	860	0.002	3	302
51	48.50	352	828	0.002	3	303
50	47.50	353	796	0.001	3	303
49	46.50	354	765	0.001	3	304
48	45.50	355	735	0.001	3	305
47	44.50	356	705	0.001	3	306
46	43.50	357	675	0.001	3	307
45	42.50	358	646	0.001	3	307
44	41.50	359	618	0.001	2	308
43	40.50	360	590	0.001	2	309
42	39.50	361	563	0.001	2	310
41	38.50	362	536	0.001	2	311
40	37.50	362	510	0.001	2	311
39	36.50	363	484	0.001	2	312
38	35.50	364	459	0.001	2	313
37	34.50	593	705	0.001	3	509
36	33.50	594	667	0.001	3	511
35	32.50	596	630	0.001	3	512
34	31.50	598	594	0.001	2	514
33	30.50	600	558	0.001	2	516
32	29.50	602	524	0.001	2	517
31	28.75	302	249	0.000	1	259
30	28.25	183	146	0.000	1	157
29	27.50	366	277	0.001	1	315
28	26.50	367	258	0.000	1	316
27	25.50	368	240	0.000	1	317
26	24.50	369	222	0.000	1	317
25	23.50	370	204	0.000	1	318
24	22.75	185	96	0.000	0	159
23	22.25	186	92	0.000	0	160
22	21.50	372	172	0.000	1	320
21	20.50	373	157	0.000	1	321
20	19.50	374	142	0.000	1	321
19	18.50	375	128	0.000	1	322
18	17.50	376	115	0.000	0	323
17	16.50	377	103	0.000	0	324

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16	15.50	378	91	0.000	0	325
15	14.50	379	80	0.000	0	325
14	13.50	380	69	0.000	0	326
13	12.50	381	59	0.000	0	327
12	11.50	382	50	0.000	0	328
11	10.50	383	42	0.000	0	329
10	9.50	383	35	0.000	0	330
9	8.50	384	28	0.000	0	330
8	7.50	385	22	0.000	0	331
7	6.50	386	16	0.000	0	332
6	5.50	387	12	0.000	0	333
5	4.50	322	7	0.000	0	277
4	3.50	323	4	0.000	0	278
3	2.50	324	2	0.000	0	279
2	1.50	325	1	0.000	0	279
1	0.50	326	0	0.000	0	280
DragonWave Horizon C	183.00	21	710	0.001	3	18
NextNet BTS-2500	183.00	105	3,516	0.006	14	90
Decibel DB844H90E-XY	183.00	84	2,813	0.005	11	72
Argus LLPX310R	183.00	86	2,873	0.005	12	74
DragonWave A-ANT-18G	183.00	54	1,815	0.003	7	47
Andrew 844G65VTZASX	183.00	48	1,607	0.003	6	41
Flat Platform w/ Han	183.00	2,000	66,978	0.122	269	1,719
RFS APXV18-206517S-C	171.00	79	2,316	0.004	9	68
Commscope WCS-IMFQ-A	167.00	30	823	0.001	3	25
Powerwave Allgon LGP	167.00	42	1,180	0.002	5	36
Powerwave Allgon LGP	167.00	85	2,359	0.004	9	73
Raycap DC6-48-60-18-	167.00	40	1,116	0.002	4	34
Ericsson RRUS 11 (Ba	167.00	132	3,681	0.007	15	113
Ericsson RRUS 32 B2	167.00	159	4,434	0.008	18	137
Ericsson RRUS-32	167.00	231	6,442	0.012	26	198
Powerwave Allgon 777	167.00	105	2,928	0.005	12	90
CCI OPA-65R-LCUU-H4	167.00	171	4,769	0.009	19	147
Quintel QS66512-2	167.00	333	9,287	0.017	37	286
Flat Platform w/ Han	167.00	2,000	55,778	0.102	224	1,719
Andrew ETW200VS12UB	146.00	33	703	0.001	3	28
Andrew ETW190VS12UB	146.00	33	703	0.001	3	28
Andrew SBNHH-1D65A	146.00	123	2,615	0.005	11	105
Flat Light Sector Fr	146.00	1,200	25,579	0.047	103	1,031
Kathrein Scala Smart	145.00	10	208	0.000	1	9
RFS FD9R6004/1C-3L	127.00	19	300	0.001	1	16
Alcatel-Lucent RRH2X	127.00	138	2,226	0.004	9	119
Alcatel-Lucent RRH2X	127.00	132	2,129	0.004	9	113
Alcatel-Lucent RRH2x	127.00	132	2,129	0.004	9	113
RFS DB-T1-6Z-8AB-0Z	127.00	44	710	0.001	3	38
RFS DB-T1-6Z-8AB-0Z	127.00	44	710	0.001	3	38
Andrew HBXX-6516DS-A	127.00	92	1,481	0.003	6	79
Andrew LNX-4514DS-A1	127.00	89	1,427	0.003	6	76
Antel BXA-80063/6CF	127.00	45	721	0.001	3	38
Andrew HBXX-6517DS-A	127.00	129	2,081	0.004	8	111
Flat Platform w/ Han	127.00	2,000	32,258	0.059	130	1,719
Thales PCS VP/360/2	7.00	1	0	0.000	0	1
Stand-Off	7.00	75	4	0.000	0	64
		56,588	549,214	1.000	2,207	48,624

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Load Case (1.2 + 0.2Sds) * DL + E ELFM Seismic Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-69.81	-2.21	0.00	-321.66	0.00	321.66	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.068
1.00	-69.40	-2.21	0.00	-319.46	0.00	319.46	4,348.30	2,174.15	8,544.66	4,278.68	0.00	0.00	0.068
2.00	-69.00	-2.21	0.00	-317.25	0.00	317.25	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.01	0.068
3.00	-68.60	-2.22	0.00	-315.03	0.00	315.03	4,316.57	2,158.29	8,419.78	4,216.15	0.00	-0.01	0.068
4.00	-68.20	-2.22	0.00	-312.82	0.00	312.82	4,300.71	2,150.36	8,357.68	4,185.05	0.01	-0.01	0.068
5.00	-67.72	-2.22	0.00	-310.60	0.00	310.60	4,284.85	2,142.42	8,295.82	4,154.08	0.01	-0.02	0.068
6.00	-67.24	-2.23	0.00	-308.37	0.00	308.37	4,268.98	2,134.49	8,234.19	4,123.21	0.01	-0.02	0.068
7.00	-66.67	-2.23	0.00	-306.14	0.00	306.14	4,253.12	2,126.56	8,172.78	4,092.46	0.02	-0.02	0.068
8.00	-66.19	-2.23	0.00	-303.91	0.00	303.91	4,237.26	2,118.63	8,111.60	4,061.83	0.02	-0.02	0.068
9.00	-65.71	-2.24	0.00	-301.68	0.00	301.68	4,221.39	2,110.70	8,050.66	4,031.31	0.03	-0.03	0.067
10.00	-65.24	-2.24	0.00	-299.44	0.00	299.44	4,205.53	2,102.76	7,989.95	4,000.91	0.03	-0.03	0.067
11.00	-64.77	-2.24	0.00	-297.20	0.00	297.20	4,189.66	2,094.83	7,929.46	3,970.62	0.04	-0.03	0.067
12.00	-64.29	-2.25	0.00	-294.96	0.00	294.96	4,173.80	2,086.90	7,869.20	3,940.45	0.05	-0.04	0.067
13.00	-63.82	-2.25	0.00	-292.71	0.00	292.71	4,157.94	2,078.97	7,809.18	3,910.39	0.05	-0.04	0.067
14.00	-63.35	-2.25	0.00	-290.46	0.00	290.46	4,142.07	2,071.04	7,749.38	3,880.45	0.06	-0.04	0.067
15.00	-62.88	-2.25	0.00	-288.21	0.00	288.21	4,126.21	2,063.10	7,689.82	3,850.62	0.07	-0.05	0.067
16.00	-62.42	-2.26	0.00	-285.96	0.00	285.96	4,110.34	2,055.17	7,630.48	3,820.91	0.08	-0.05	0.067
17.00	-61.95	-2.26	0.00	-283.70	0.00	283.70	4,094.48	2,047.24	7,571.37	3,791.31	0.09	-0.05	0.066
18.00	-61.48	-2.26	0.00	-281.44	0.00	281.44	4,078.62	2,039.31	7,512.50	3,761.83	0.11	-0.06	0.066
19.00	-61.02	-2.27	0.00	-279.17	0.00	279.17	4,062.75	2,031.38	7,453.85	3,732.47	0.12	-0.06	0.066
20.00	-60.56	-2.27	0.00	-276.91	0.00	276.91	4,046.89	2,023.44	7,395.44	3,703.21	0.13	-0.06	0.066
21.00	-60.09	-2.27	0.00	-274.64	0.00	274.64	4,031.02	2,015.51	7,337.25	3,674.08	0.14	-0.07	0.066
22.00	-59.86	-2.27	0.00	-272.37	0.00	272.37	4,015.16	2,007.58	7,279.29	3,645.06	0.16	-0.07	0.066
22.50	-59.63	-2.27	0.00	-271.24	0.00	271.24	4,007.23	2,003.61	7,250.40	3,630.59	0.16	-0.07	0.066
22.50	-59.63	-2.27	0.00	-271.24	0.00	271.24	4,007.23	2,003.61	7,250.40	3,630.59	0.16	-0.07	0.066
23.00	-59.17	-2.27	0.00	-270.10	0.00	270.10	3,999.30	1,999.65	7,221.56	3,616.15	0.17	-0.07	0.066
24.00	-58.72	-2.28	0.00	-267.83	0.00	267.83	3,983.43	1,991.72	7,164.07	3,587.36	0.19	-0.08	0.065
25.00	-58.26	-2.28	0.00	-265.55	0.00	265.55	3,967.57	1,983.78	7,106.80	3,558.68	0.20	-0.08	0.065
26.00	-57.80	-2.28	0.00	-263.28	0.00	263.28	3,951.70	1,975.85	7,049.76	3,530.12	0.22	-0.08	0.065
27.00	-57.35	-2.28	0.00	-261.00	0.00	261.00	3,935.84	1,967.92	6,992.95	3,501.67	0.24	-0.08	0.065
28.00	-57.12	-2.28	0.00	-258.72	0.00	258.72	3,919.98	1,959.99	6,936.37	3,473.34	0.26	-0.09	0.065
28.50	-56.75	-2.28	0.00	-257.58	0.00	257.58	3,912.04	1,956.02	6,908.17	3,459.22	0.27	-0.09	0.065
29.00	-56.00	-2.28	0.00	-256.44	0.00	256.44	3,904.11	1,952.06	6,880.03	3,445.13	0.28	-0.09	0.064
30.00	-55.25	-2.28	0.00	-254.16	0.00	254.16	3,888.25	1,944.12	6,823.91	3,417.03	0.29	-0.09	0.064
31.00	-54.51	-2.28	0.00	-251.88	0.00	251.88	3,872.38	1,936.19	6,768.02	3,389.04	0.31	-0.10	0.063
32.00	-53.77	-2.28	0.00	-249.60	0.00	249.60	3,856.52	1,928.26	6,712.36	3,361.17	0.34	-0.10	0.063
33.00	-53.03	-2.28	0.00	-247.32	0.00	247.32	3,840.66	1,920.33	6,656.93	3,333.41	0.36	-0.10	0.063
34.00	-52.30	-2.28	0.00	-245.04	0.00	245.04	3,824.79	1,912.40	6,601.73	3,305.77	0.38	-0.11	0.063
35.00	-51.85	-2.28	0.00	-242.76	0.00	242.76	3,899.62	1,949.81	6,864.12	3,437.16	0.40	-0.11	0.061
36.00	-51.40	-2.28	0.00	-240.49	0.00	240.49	3,883.76	1,941.88	6,808.07	3,409.09	0.43	-0.11	0.061
37.00	-50.95	-2.28	0.00	-238.21	0.00	238.21	3,867.90	1,933.95	6,752.24	3,381.14	0.45	-0.12	0.061
38.00	-50.50	-2.28	0.00	-235.93	0.00	235.93	3,852.03	1,926.02	6,696.65	3,353.30	0.48	-0.12	0.060
39.00	-50.05	-2.28	0.00	-233.66	0.00	233.66	3,836.17	1,918.08	6,641.29	3,325.58	0.50	-0.12	0.060
40.00	-49.60	-2.28	0.00	-231.38	0.00	231.38	3,820.30	1,910.15	6,586.15	3,297.97	0.53	-0.13	0.060
41.00	-49.16	-2.27	0.00	-229.11	0.00	229.11	3,804.44	1,902.22	6,531.25	3,270.48	0.55	-0.13	0.060
42.00	-48.71	-2.27	0.00	-226.83	0.00	226.83	3,788.58	1,894.29	6,476.57	3,243.10	0.58	-0.13	0.060
43.00	-48.27	-2.27	0.00	-224.56	0.00	224.56	3,772.71	1,886.36	6,422.13	3,215.84	0.61	-0.14	0.059
43.00	-48.27	-2.27	0.00	-224.56	0.00	224.56	3,772.71	1,886.36	6,422.13	3,215.84	0.61	-0.14	0.059
44.00	-47.83	-2.27	0.00	-222.29	0.00	222.29	3,756.85	1,878.42	6,367.91	3,188.69	0.64	-0.14	0.059
45.00	-47.39	-2.27	0.00	-220.01	0.00	220.01	3,740.98	1,870.49	6,313.93	3,161.66	0.67	-0.14	0.059
46.00	-46.95	-2.27	0.00	-217.75	0.00	217.75	3,725.12	1,862.56	6,260.17	3,134.74	0.70	-0.15	0.059
47.00	-46.51	-2.27	0.00	-215.48	0.00	215.48	3,709.26	1,854.63	6,206.65	3,107.94	0.73	-0.15	0.058
48.00	-46.08	-2.26	0.00	-213.21	0.00	213.21	3,693.39	1,846.70	6,153.35	3,081.25	0.76	-0.15	0.058
49.00	-45.64	-2.26	0.00	-210.95	0.00	210.95	3,677.53	1,838.76	6,100.29	3,054.68	0.79	-0.15	0.058
50.00	-45.20	-2.26	0.00	-208.68	0.00	208.68	3,661.66	1,830.83	6,047.45	3,028.22	0.82	-0.16	0.058
51.00	-44.77	-2.26	0.00	-206.43	0.00	206.43	3,645.80	1,822.90	5,994.84	3,001.88	0.86	-0.16	0.057

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52.00	-44.34	-2.25	0.00	-204.17	0.00	204.17	3,629.94	1,814.97	5,942.47	2,975.65	0.89	-0.16	0.057
53.00	-43.91	-2.25	0.00	-201.91	0.00	201.91	3,614.07	1,807.04	5,890.32	2,949.54	0.93	-0.17	0.057
54.00	-43.48	-2.25	0.00	-199.66	0.00	199.66	3,598.21	1,799.10	5,838.41	2,923.54	0.96	-0.17	0.057
55.00	-43.05	-2.25	0.00	-197.41	0.00	197.41	3,582.34	1,791.17	5,786.72	2,897.66	1.00	-0.17	0.056
56.00	-42.62	-2.24	0.00	-195.17	0.00	195.17	3,566.48	1,783.24	5,735.26	2,871.89	1.03	-0.18	0.056
57.00	-42.20	-2.24	0.00	-192.92	0.00	192.92	3,550.62	1,775.31	5,684.03	2,846.24	1.07	-0.18	0.056
58.00	-41.57	-2.23	0.00	-190.69	0.00	190.69	3,534.75	1,767.38	5,633.04	2,820.71	1.11	-0.18	0.056
59.00	-40.95	-2.23	0.00	-188.45	0.00	188.45	3,518.89	1,759.44	5,582.27	2,795.28	1.15	-0.19	0.055
60.00	-40.33	-2.22	0.00	-186.23	0.00	186.23	3,503.02	1,751.51	5,531.73	2,769.98	1.19	-0.19	0.054
61.00	-39.71	-2.21	0.00	-184.01	0.00	184.01	3,487.16	1,743.58	5,481.43	2,744.79	1.23	-0.19	0.054
62.00	-39.09	-2.20	0.00	-181.80	0.00	181.80	3,471.30	1,735.65	5,431.35	2,719.71	1.27	-0.20	0.054
63.00	-38.78	-2.20	0.00	-179.60	0.00	179.60	3,455.43	1,727.72	5,381.50	2,694.75	1.31	-0.20	0.054
63.50	-38.60	-2.20	0.00	-178.50	0.00	178.50	3,158.12	1,579.06	5,037.43	2,522.46	1.33	-0.20	0.053
64.00	-38.24	-2.19	0.00	-177.40	0.00	177.40	3,152.80	1,576.40	5,017.53	2,512.49	1.35	-0.20	0.053
65.00	-37.89	-2.19	0.00	-175.21	0.00	175.21	3,142.13	1,571.07	4,977.80	2,492.60	1.39	-0.21	0.052
66.00	-37.53	-2.19	0.00	-173.02	0.00	173.02	3,131.44	1,565.72	4,938.17	2,472.75	1.44	-0.21	0.052
67.00	-37.17	-2.18	0.00	-170.83	0.00	170.83	3,120.71	1,560.35	4,898.65	2,452.96	1.48	-0.21	0.052
68.00	-36.82	-2.18	0.00	-168.65	0.00	168.65	3,109.92	1,554.96	4,859.19	2,433.21	1.53	-0.22	0.051
69.00	-36.46	-2.17	0.00	-166.48	0.00	166.48	3,095.65	1,547.82	4,814.46	2,410.81	1.57	-0.22	0.051
70.00	-36.11	-2.17	0.00	-164.30	0.00	164.30	3,081.37	1,540.68	4,769.94	2,388.51	1.62	-0.22	0.051
71.00	-35.75	-2.16	0.00	-162.14	0.00	162.14	3,067.09	1,533.55	4,725.62	2,366.32	1.67	-0.23	0.050
72.00	-35.40	-2.16	0.00	-159.98	0.00	159.98	3,052.81	1,526.41	4,681.51	2,344.23	1.71	-0.23	0.050
73.00	-35.05	-2.15	0.00	-157.82	0.00	157.82	3,038.54	1,519.27	4,637.61	2,322.25	1.76	-0.23	0.050
74.00	-34.70	-2.15	0.00	-155.67	0.00	155.67	3,024.26	1,512.13	4,593.91	2,300.37	1.81	-0.24	0.049
75.00	-34.35	-2.14	0.00	-153.52	0.00	153.52	3,009.98	1,504.99	4,550.42	2,278.59	1.86	-0.24	0.049
76.00	-34.00	-2.13	0.00	-151.38	0.00	151.38	2,995.70	1,497.85	4,507.14	2,256.92	1.91	-0.24	0.049
77.00	-33.66	-2.13	0.00	-149.25	0.00	149.25	2,981.43	1,490.71	4,464.06	2,235.35	1.96	-0.25	0.048
78.00	-33.31	-2.12	0.00	-147.12	0.00	147.12	2,967.15	1,483.57	4,421.19	2,213.88	2.02	-0.25	0.048
79.00	-32.96	-2.11	0.00	-145.00	0.00	145.00	2,952.87	1,476.44	4,378.53	2,192.52	2.07	-0.25	0.048
80.00	-32.62	-2.11	0.00	-142.89	0.00	142.89	2,938.59	1,469.30	4,336.07	2,171.26	2.12	-0.26	0.047
81.00	-32.27	-2.10	0.00	-140.78	0.00	140.78	2,924.32	1,462.16	4,293.83	2,150.10	2.18	-0.26	0.047
82.00	-31.93	-2.09	0.00	-138.68	0.00	138.68	2,910.04	1,455.02	4,251.78	2,129.05	2.23	-0.26	0.047
83.00	-31.59	-2.09	0.00	-136.58	0.00	136.58	2,895.76	1,447.88	4,209.95	2,108.10	2.29	-0.27	0.046
84.00	-31.25	-2.08	0.00	-134.50	0.00	134.50	2,881.48	1,440.74	4,168.32	2,087.26	2.34	-0.27	0.046
85.00	-30.90	-2.07	0.00	-132.42	0.00	132.42	2,867.21	1,433.60	4,126.90	2,066.52	2.40	-0.28	0.045
86.00	-30.56	-2.06	0.00	-130.35	0.00	130.35	2,852.93	1,426.46	4,085.69	2,045.88	2.46	-0.28	0.045
87.00	-30.23	-2.05	0.00	-128.29	0.00	128.29	2,838.65	1,419.33	4,044.68	2,025.35	2.52	-0.28	0.045
88.00	-29.74	-2.04	0.00	-126.23	0.00	126.23	2,824.37	1,412.19	4,003.88	2,004.91	2.58	-0.29	0.044
89.00	-29.26	-2.03	0.00	-124.19	0.00	124.19	2,810.09	1,405.05	3,963.28	1,984.59	2.64	-0.29	0.043
90.00	-28.77	-2.01	0.00	-122.16	0.00	122.16	2,795.82	1,397.91	3,922.90	1,964.36	2.70	-0.29	0.043
91.00	-28.29	-2.00	0.00	-120.15	0.00	120.15	2,781.54	1,390.77	3,882.72	1,944.24	2.76	-0.30	0.043
92.00	-27.81	-1.99	0.00	-118.15	0.00	118.15	2,767.26	1,383.63	3,842.74	1,924.23	2.82	-0.30	0.042
93.00	-27.51	-1.98	0.00	-116.16	0.00	116.16	2,292.76	1,146.38	3,238.31	1,621.56	2.89	-0.30	0.047
94.00	-27.20	-1.97	0.00	-114.18	0.00	114.18	2,284.25	1,142.13	3,209.75	1,607.26	2.95	-0.31	0.046
95.00	-26.89	-1.96	0.00	-112.21	0.00	112.21	2,275.71	1,137.86	3,181.27	1,593.00	3.01	-0.31	0.046
96.00	-26.59	-1.95	0.00	-110.25	0.00	110.25	2,267.14	1,133.57	3,152.86	1,578.78	3.08	-0.31	0.045
97.00	-26.28	-1.94	0.00	-108.30	0.00	108.30	2,258.54	1,129.27	3,124.54	1,564.59	3.14	-0.32	0.045
98.00	-25.98	-1.93	0.00	-106.36	0.00	106.36	2,249.90	1,124.95	3,096.30	1,550.45	3.21	-0.32	0.044
99.00	-25.67	-1.92	0.00	-104.43	0.00	104.43	2,241.24	1,120.62	3,068.14	1,536.35	3.28	-0.32	0.043
100.00	-25.37	-1.91	0.00	-102.51	0.00	102.51	2,232.54	1,116.27	3,040.06	1,522.29	3.35	-0.33	0.043
101.00	-25.07	-1.90	0.00	-100.60	0.00	100.60	2,223.81	1,111.90	3,012.06	1,508.27	3.41	-0.33	0.042
102.00	-24.76	-1.89	0.00	-98.70	0.00	98.70	2,215.04	1,107.52	2,984.14	1,494.29	3.48	-0.33	0.042
103.00	-24.46	-1.88	0.00	-96.81	0.00	96.81	2,206.25	1,103.12	2,956.31	1,480.35	3.55	-0.34	0.041
104.00	-24.16	-1.87	0.00	-94.93	0.00	94.93	2,197.42	1,098.71	2,928.57	1,466.46	3.62	-0.34	0.041
105.00	-23.95	-1.86	0.00	-93.06	0.00	93.06	2,188.56	1,094.28	2,900.91	1,452.61	3.70	-0.34	0.040
105.00	-23.95	-1.86	0.00	-93.06	0.00	93.06	2,188.56	1,094.28	2,900.91	1,452.61	3.70	-0.34	0.075
106.00	-23.73	-1.85	0.00	-91.20	0.00	91.20	2,179.67	1,089.83	2,873.33	1,438.80	3.77	-0.35	0.074
107.00	-23.52	-1.85	0.00	-89.34	0.00	89.34	2,170.74	1,085.37	2,845.85	1,425.04	3.84	-0.35	0.074
108.00	-23.30	-1.84	0.00	-87.50	0.00	87.50	2,161.78	1,080.89	2,818.44	1,411.32	3.92	-0.36	0.073
109.00	-23.09	-1.83	0.00	-85.66	0.00	85.66	2,150.55	1,075.28	2,788.22	1,396.18	3.99	-0.36	0.072
110.00	-22.87	-1.83	0.00	-83.82	0.00	83.82	2,138.65	1,069.33	2,757.31	1,380.70	4.07	-0.37	0.071
111.00	-22.66	-1.82	0.00	-82.00	0.00	82.00	2,126.76	1,063.38	2,726.56	1,365.31	4.15	-0.38	0.071
112.00	-22.45	-1.81	0.00	-80.18	0.00	80.18	2,114.86	1,057.43	2,695.99	1,350.00	4.23	-0.38	0.070
113.00	-22.24	-1.80	0.00	-78.37	0.00	78.37	2,102.96	1,051.48	2,665.59	1,334.78	4.31	-0.39	0.069

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114.00	-22.03	-1.79	0.00	-76.57	0.00	76.57	2,091.06	1,045.53	2,635.36	1,319.64	4.39	-0.39	0.069
115.00	-21.82	-1.79	0.00	-74.77	0.00	74.77	2,079.16	1,039.58	2,605.31	1,304.59	4.47	-0.40	0.068
116.00	-21.71	-1.78	0.00	-72.99	0.00	72.99	2,067.27	1,033.63	2,575.43	1,289.63	4.56	-0.41	0.067
116.50	-21.56	-1.78	0.00	-72.10	0.00	72.10	2,061.32	1,030.66	2,560.55	1,282.18	4.60	-0.41	0.067
117.00	-21.25	-1.76	0.00	-71.21	0.00	71.21	2,055.37	1,027.68	2,545.72	1,274.75	4.64	-0.41	0.066
118.00	-20.94	-1.75	0.00	-69.45	0.00	69.45	2,043.47	1,021.73	2,516.18	1,259.96	4.73	-0.42	0.065
119.00	-20.63	-1.73	0.00	-67.70	0.00	67.70	2,031.57	1,015.79	2,486.81	1,245.26	4.82	-0.42	0.065
120.00	-20.32	-1.72	0.00	-65.97	0.00	65.97	2,019.67	1,009.84	2,457.62	1,230.64	4.91	-0.43	0.064
121.00	-20.14	-1.71	0.00	-64.25	0.00	64.25	1,562.89	781.45	1,930.84	966.86	5.00	-0.43	0.079
122.00	-19.96	-1.70	0.00	-62.54	0.00	62.54	1,556.55	778.28	1,911.74	957.29	5.09	-0.44	0.078
123.00	-19.78	-1.69	0.00	-60.84	0.00	60.84	1,550.18	775.09	1,892.68	947.75	5.18	-0.45	0.077
124.00	-19.60	-1.69	0.00	-59.15	0.00	59.15	1,543.77	771.89	1,873.68	938.23	5.28	-0.45	0.076
125.00	-19.42	-1.68	0.00	-57.46	0.00	57.46	1,537.34	768.67	1,854.73	928.74	5.37	-0.46	0.075
126.00	-19.24	-1.67	0.00	-55.78	0.00	55.78	1,530.87	765.43	1,835.84	919.28	5.47	-0.47	0.073
127.00	-15.53	-1.45	0.00	-54.12	0.00	54.12	1,524.37	762.18	1,817.00	909.85	5.57	-0.47	0.070
128.00	-15.37	-1.44	0.00	-52.67	0.00	52.67	1,517.84	758.92	1,798.22	900.45	5.67	-0.48	0.069
129.00	-15.21	-1.43	0.00	-51.23	0.00	51.23	1,511.27	755.64	1,779.50	891.07	5.77	-0.48	0.068
130.00	-15.05	-1.42	0.00	-49.80	0.00	49.80	1,504.67	752.34	1,760.83	881.72	5.87	-0.49	0.066
131.00	-14.89	-1.41	0.00	-48.38	0.00	48.38	1,498.04	749.02	1,742.22	872.40	5.97	-0.50	0.065
132.00	-14.73	-1.40	0.00	-46.97	0.00	46.97	1,491.38	745.69	1,723.67	863.12	6.08	-0.50	0.064
133.00	-14.58	-1.39	0.00	-45.57	0.00	45.57	1,484.69	742.34	1,705.18	853.86	6.18	-0.51	0.063
134.00	-14.42	-1.39	0.00	-44.17	0.00	44.17	1,477.96	738.98	1,686.75	844.63	6.29	-0.51	0.062
135.00	-14.26	-1.38	0.00	-42.79	0.00	42.79	1,471.20	735.60	1,668.38	835.43	6.40	-0.52	0.061
136.00	-14.11	-1.37	0.00	-41.41	0.00	41.41	1,464.41	732.21	1,650.07	826.26	6.51	-0.53	0.060
137.00	-13.95	-1.36	0.00	-40.05	0.00	40.05	1,457.59	728.80	1,631.83	817.13	6.62	-0.53	0.059
138.00	-13.80	-1.35	0.00	-38.69	0.00	38.69	1,450.74	725.37	1,613.64	808.02	6.73	-0.54	0.057
139.00	-13.65	-1.34	0.00	-37.34	0.00	37.34	1,443.85	721.92	1,595.53	798.95	6.84	-0.54	0.056
140.00	-13.49	-1.33	0.00	-36.01	0.00	36.01	1,436.93	718.47	1,577.47	789.91	6.96	-0.55	0.055
141.00	-13.34	-1.32	0.00	-34.68	0.00	34.68	1,429.98	714.99	1,559.48	780.90	7.07	-0.55	0.054
142.00	-13.19	-1.31	0.00	-33.36	0.00	33.36	1,423.00	711.50	1,541.56	771.93	7.19	-0.56	0.052
143.00	-13.04	-1.30	0.00	-32.05	0.00	32.05	1,415.98	707.99	1,523.71	762.99	7.31	-0.56	0.051
144.00	-12.89	-1.29	0.00	-30.76	0.00	30.76	1,408.93	704.47	1,505.92	754.08	7.43	-0.57	0.050
145.00	-12.73	-1.27	0.00	-29.47	0.00	29.47	1,401.85	700.93	1,488.20	745.20	7.55	-0.57	0.049
146.00	-10.87	-1.13	0.00	-28.20	0.00	28.20	1,394.74	697.37	1,470.54	736.36	7.67	-0.58	0.046
147.00	-10.74	-1.12	0.00	-27.07	0.00	27.07	1,387.60	693.80	1,452.96	727.56	7.79	-0.58	0.045
148.00	-10.61	-1.11	0.00	-25.95	0.00	25.95	1,379.83	689.92	1,434.84	718.48	7.91	-0.59	0.044
149.00	-10.42	-1.09	0.00	-24.84	0.00	24.84	1,370.32	685.16	1,415.01	708.56	8.03	-0.59	0.043
150.00	-10.23	-1.08	0.00	-23.75	0.00	23.75	1,360.80	680.40	1,395.33	698.70	8.16	-0.60	0.042
151.00	-10.04	-1.06	0.00	-22.67	0.00	22.67	1,351.28	675.64	1,375.78	688.91	8.28	-0.60	0.040
152.00	-9.94	-1.06	0.00	-21.60	0.00	21.60	1,341.76	670.88	1,356.37	679.19	8.41	-0.60	0.039
152.50	-9.89	-1.05	0.00	-21.08	0.00	21.08	942.35	471.17	968.66	485.05	8.47	-0.61	0.054
153.00	-9.78	-1.04	0.00	-20.55	0.00	20.55	940.20	470.10	963.05	482.24	8.54	-0.61	0.053
154.00	-9.67	-1.03	0.00	-19.51	0.00	19.51	935.87	467.94	951.84	476.63	8.66	-0.61	0.051
155.00	-9.56	-1.03	0.00	-18.47	0.00	18.47	931.51	465.76	940.66	471.03	8.79	-0.62	0.049
156.00	-9.46	-1.02	0.00	-17.45	0.00	17.45	927.12	463.56	929.51	465.45	8.92	-0.62	0.048
157.00	-9.35	-1.01	0.00	-16.43	0.00	16.43	922.70	461.35	918.40	459.88	9.05	-0.63	0.046
158.00	-9.25	-1.00	0.00	-15.42	0.00	15.42	918.25	459.12	907.31	454.33	9.18	-0.63	0.044
159.00	-9.14	-0.99	0.00	-14.42	0.00	14.42	913.76	456.88	896.26	448.80	9.32	-0.63	0.042
160.00	-9.04	-0.98	0.00	-13.43	0.00	13.43	909.24	454.62	885.24	443.28	9.45	-0.64	0.040
161.00	-8.93	-0.97	0.00	-12.45	0.00	12.45	904.69	452.35	874.26	437.78	9.58	-0.64	0.038
162.00	-8.83	-0.96	0.00	-11.48	0.00	11.48	900.11	450.06	863.31	432.30	9.72	-0.65	0.036
163.00	-8.73	-0.95	0.00	-10.52	0.00	10.52	895.50	447.75	852.40	426.83	9.86	-0.65	0.034
164.00	-8.62	-0.94	0.00	-9.57	0.00	9.57	890.85	445.42	841.52	421.39	9.99	-0.65	0.032
165.00	-8.52	-0.93	0.00	-8.63	0.00	8.63	886.17	443.09	830.68	415.96	10.13	-0.65	0.030
166.00	-8.42	-0.92	0.00	-7.70	0.00	7.70	881.46	440.73	819.88	410.55	10.27	-0.66	0.028
167.00	-4.21	-0.49	0.00	-6.77	0.00	6.77	876.72	438.36	809.12	405.16	10.40	-0.66	0.022
168.00	-4.13	-0.49	0.00	-6.28	0.00	6.28	871.94	435.97	798.40	399.79	10.54	-0.66	0.020
169.00	-4.04	-0.48	0.00	-5.79	0.00	5.79	867.13	433.57	787.71	394.44	10.68	-0.66	0.019
170.00	-3.96	-0.47	0.00	-5.32	0.00	5.32	862.29	431.15	777.07	389.11	10.82	-0.67	0.018
171.00	-3.78	-0.45	0.00	-4.85	0.00	4.85	857.42	428.71	766.47	383.80	10.96	-0.67	0.017
172.00	-3.71	-0.44	0.00	-4.40	0.00	4.40	852.52	426.26	755.91	378.52	11.10	-0.67	0.016
173.00	-3.63	-0.43	0.00	-3.96	0.00	3.96	847.58	423.79	745.39	373.25	11.24	-0.67	0.015
174.00	-3.56	-0.43	0.00	-3.53	0.00	3.53	842.61	421.31	734.92	368.01	11.38	-0.67	0.014
175.00	-3.48	-0.42	0.00	-3.10	0.00	3.10	837.61	418.81	724.49	362.78	11.52	-0.67	0.013

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176.00	-3.41	-0.41	0.00	-2.68	0.00	2.68	832.58	416.29	714.11	357.59	11.66	-0.67	0.012
177.00	-3.33	-0.40	0.00	-2.27	0.00	2.27	827.51	413.76	703.77	352.41	11.80	-0.68	0.010
178.00	-3.26	-0.39	0.00	-1.87	0.00	1.87	822.42	411.21	693.48	347.26	11.95	-0.68	0.009
179.00	-3.19	-0.38	0.00	-1.48	0.00	1.48	817.29	408.64	683.23	342.12	12.09	-0.68	0.008
180.00	-3.12	-0.37	0.00	-1.10	0.00	1.10	812.13	406.06	673.04	337.02	12.23	-0.68	0.007
181.00	-3.04	-0.37	0.00	-0.72	0.00	0.72	806.93	403.47	662.89	331.94	12.37	-0.68	0.006
182.00	-2.97	-0.36	0.00	-0.36	0.00	0.36	801.71	400.85	652.79	326.88	12.51	-0.68	0.005
183.00	0.00	-0.32	0.00	0.00	0.00	0.00	796.45	398.23	642.74	321.85	12.66	-0.68	0.000

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Load Case (0.9 - 0.2Sds) * DL + E ELFM Seismic (Reduced DL) Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-48.34	-2.20	0.00	-314.81	0.00	314.81	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.063
1.00	-48.06	-2.21	0.00	-312.61	0.00	312.61	4,348.30	2,174.15	8,544.66	4,278.68	0.00	0.00	0.063
2.00	-47.78	-2.21	0.00	-310.41	0.00	310.41	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.01	0.063
3.00	-47.51	-2.21	0.00	-308.20	0.00	308.20	4,316.57	2,158.29	8,419.78	4,216.15	0.00	-0.01	0.063
4.00	-47.23	-2.21	0.00	-305.99	0.00	305.99	4,300.71	2,150.36	8,357.68	4,185.05	0.01	-0.01	0.063
5.00	-46.90	-2.22	0.00	-303.77	0.00	303.77	4,284.85	2,142.42	8,295.82	4,154.08	0.01	-0.01	0.063
6.00	-46.56	-2.22	0.00	-301.56	0.00	301.56	4,268.98	2,134.49	8,234.19	4,123.21	0.01	-0.02	0.063
7.00	-46.17	-2.22	0.00	-299.34	0.00	299.34	4,253.12	2,126.56	8,172.78	4,092.46	0.02	-0.02	0.063
8.00	-45.84	-2.22	0.00	-297.12	0.00	297.12	4,237.26	2,118.63	8,111.60	4,061.83	0.02	-0.02	0.063
9.00	-45.51	-2.22	0.00	-294.90	0.00	294.90	4,221.39	2,110.70	8,050.66	4,031.31	0.03	-0.03	0.062
10.00	-45.18	-2.23	0.00	-292.67	0.00	292.67	4,205.53	2,102.76	7,989.95	4,000.91	0.03	-0.03	0.062
11.00	-44.85	-2.23	0.00	-290.45	0.00	290.45	4,189.66	2,094.83	7,929.46	3,970.62	0.04	-0.03	0.062
12.00	-44.52	-2.23	0.00	-288.22	0.00	288.22	4,173.80	2,086.90	7,869.20	3,940.45	0.05	-0.04	0.062
13.00	-44.20	-2.23	0.00	-285.99	0.00	285.99	4,157.94	2,078.97	7,809.18	3,910.39	0.05	-0.04	0.062
14.00	-43.87	-2.23	0.00	-283.76	0.00	283.76	4,142.07	2,071.04	7,749.38	3,880.45	0.06	-0.04	0.062
15.00	-43.55	-2.24	0.00	-281.52	0.00	281.52	4,126.21	2,063.10	7,689.82	3,850.62	0.07	-0.05	0.062
16.00	-43.22	-2.24	0.00	-279.29	0.00	279.29	4,110.34	2,055.17	7,630.48	3,820.91	0.08	-0.05	0.062
17.00	-42.90	-2.24	0.00	-277.05	0.00	277.05	4,094.48	2,047.24	7,571.37	3,791.31	0.09	-0.05	0.062
18.00	-42.58	-2.24	0.00	-274.81	0.00	274.81	4,078.62	2,039.31	7,512.50	3,761.83	0.10	-0.05	0.061
19.00	-42.26	-2.24	0.00	-272.57	0.00	272.57	4,062.75	2,031.38	7,453.85	3,732.47	0.11	-0.06	0.061
20.00	-41.94	-2.24	0.00	-270.33	0.00	270.33	4,046.89	2,023.44	7,395.44	3,703.21	0.13	-0.06	0.061
21.00	-41.62	-2.24	0.00	-268.09	0.00	268.09	4,031.02	2,015.51	7,337.25	3,674.08	0.14	-0.06	0.061
22.00	-41.46	-2.25	0.00	-265.84	0.00	265.84	4,015.16	2,007.58	7,279.29	3,645.06	0.15	-0.07	0.061
22.50	-41.30	-2.25	0.00	-264.72	0.00	264.72	4,007.23	2,003.61	7,250.40	3,630.59	0.16	-0.07	0.061
22.50	-41.30	-2.25	0.00	-264.72	0.00	264.72	4,007.23	2,003.61	7,250.40	3,630.59	0.16	-0.07	0.061
23.00	-40.98	-2.25	0.00	-263.59	0.00	263.59	3,999.30	1,999.65	7,221.56	3,616.15	0.17	-0.07	0.061
24.00	-40.66	-2.25	0.00	-261.35	0.00	261.35	3,983.43	1,991.72	7,164.07	3,587.36	0.18	-0.07	0.061
25.00	-40.34	-2.25	0.00	-259.10	0.00	259.10	3,967.57	1,983.78	7,106.80	3,558.68	0.20	-0.08	0.060
26.00	-40.03	-2.25	0.00	-256.85	0.00	256.85	3,951.70	1,975.85	7,049.76	3,530.12	0.22	-0.08	0.060
27.00	-39.71	-2.25	0.00	-254.60	0.00	254.60	3,935.84	1,967.92	6,992.95	3,501.67	0.23	-0.08	0.060
28.00	-39.56	-2.25	0.00	-252.35	0.00	252.35	3,919.98	1,959.99	6,936.37	3,473.34	0.25	-0.09	0.060
28.50	-39.30	-2.25	0.00	-251.23	0.00	251.23	3,912.04	1,956.02	6,908.17	3,459.22	0.26	-0.09	0.060
29.00	-38.78	-2.25	0.00	-250.10	0.00	250.10	3,904.11	1,952.06	6,880.03	3,445.13	0.27	-0.09	0.059
30.00	-38.26	-2.25	0.00	-247.85	0.00	247.85	3,888.25	1,944.12	6,823.91	3,417.03	0.29	-0.09	0.059
31.00	-37.75	-2.25	0.00	-245.61	0.00	245.61	3,872.38	1,936.19	6,768.02	3,389.04	0.31	-0.10	0.059
32.00	-37.24	-2.25	0.00	-243.36	0.00	243.36	3,856.52	1,928.26	6,712.36	3,361.17	0.33	-0.10	0.059
33.00	-36.73	-2.24	0.00	-241.11	0.00	241.11	3,840.66	1,920.33	6,656.93	3,333.41	0.35	-0.10	0.058
34.00	-36.22	-2.24	0.00	-238.87	0.00	238.87	3,824.79	1,912.40	6,601.73	3,305.77	0.37	-0.11	0.058
35.00	-35.90	-2.24	0.00	-236.63	0.00	236.63	3,899.62	1,949.81	6,864.12	3,437.16	0.39	-0.11	0.057
36.00	-35.59	-2.24	0.00	-234.39	0.00	234.39	3,883.76	1,941.88	6,808.07	3,409.09	0.42	-0.11	0.056
37.00	-35.28	-2.24	0.00	-232.14	0.00	232.14	3,867.90	1,933.95	6,752.24	3,381.14	0.44	-0.11	0.056
38.00	-34.97	-2.24	0.00	-229.90	0.00	229.90	3,852.03	1,926.02	6,696.65	3,353.30	0.46	-0.12	0.056
39.00	-34.66	-2.24	0.00	-227.67	0.00	227.67	3,836.17	1,918.08	6,641.29	3,325.58	0.49	-0.12	0.056
40.00	-34.35	-2.24	0.00	-225.43	0.00	225.43	3,820.30	1,910.15	6,586.15	3,297.97	0.51	-0.12	0.056
41.00	-34.04	-2.24	0.00	-223.19	0.00	223.19	3,804.44	1,902.22	6,531.25	3,270.48	0.54	-0.13	0.055
42.00	-33.73	-2.23	0.00	-220.95	0.00	220.95	3,788.58	1,894.29	6,476.57	3,243.10	0.57	-0.13	0.055
43.00	-33.43	-2.23	0.00	-218.72	0.00	218.72	3,772.71	1,886.36	6,422.13	3,215.84	0.60	-0.13	0.055
43.00	-33.43	-2.23	0.00	-218.72	0.00	218.72	3,772.71	1,886.36	6,422.13	3,215.84	0.60	-0.13	0.055
44.00	-33.12	-2.23	0.00	-216.49	0.00	216.49	3,756.85	1,878.42	6,367.91	3,188.69	0.62	-0.14	0.055
45.00	-32.82	-2.23	0.00	-214.26	0.00	214.26	3,740.98	1,870.49	6,313.93	3,161.66	0.65	-0.14	0.055
46.00	-32.51	-2.23	0.00	-212.03	0.00	212.03	3,725.12	1,862.56	6,260.17	3,134.74	0.68	-0.14	0.054
47.00	-32.21	-2.22	0.00	-209.80	0.00	209.80	3,709.26	1,854.63	6,206.65	3,107.94	0.71	-0.14	0.054
48.00	-31.91	-2.22	0.00	-207.58	0.00	207.58	3,693.39	1,846.70	6,153.35	3,081.25	0.74	-0.15	0.054
49.00	-31.61	-2.22	0.00	-205.35	0.00	205.35	3,677.53	1,838.76	6,100.29	3,054.68	0.77	-0.15	0.054
50.00	-31.30	-2.22	0.00	-203.13	0.00	203.13	3,661.66	1,830.83	6,047.45	3,028.22	0.81	-0.15	0.054
51.00	-31.00	-2.21	0.00	-200.92	0.00	200.92	3,645.80	1,822.90	5,994.84	3,001.88	0.84	-0.16	0.053

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52.00	-30.70	-2.21	0.00	-198.70	0.00	198.70	3,629.94	1,814.97	5,942.47	2,975.65	0.87	-0.16	0.053
53.00	-30.41	-2.21	0.00	-196.49	0.00	196.49	3,614.07	1,807.04	5,890.32	2,949.54	0.91	-0.16	0.053
54.00	-30.11	-2.20	0.00	-194.28	0.00	194.28	3,598.21	1,799.10	5,838.41	2,923.54	0.94	-0.17	0.053
55.00	-29.81	-2.20	0.00	-192.08	0.00	192.08	3,582.34	1,791.17	5,786.72	2,897.66	0.97	-0.17	0.052
56.00	-29.52	-2.20	0.00	-189.88	0.00	189.88	3,566.48	1,783.24	5,735.26	2,871.89	1.01	-0.17	0.052
57.00	-29.22	-2.19	0.00	-187.68	0.00	187.68	3,550.62	1,775.31	5,684.03	2,846.24	1.05	-0.18	0.052
58.00	-28.79	-2.19	0.00	-185.49	0.00	185.49	3,534.75	1,767.38	5,633.04	2,820.71	1.08	-0.18	0.052
59.00	-28.36	-2.18	0.00	-183.30	0.00	183.30	3,518.89	1,759.44	5,582.27	2,795.28	1.12	-0.18	0.051
60.00	-27.93	-2.17	0.00	-181.12	0.00	181.12	3,503.02	1,751.51	5,531.73	2,769.98	1.16	-0.18	0.051
61.00	-27.50	-2.16	0.00	-178.95	0.00	178.95	3,487.16	1,743.58	5,481.43	2,744.79	1.20	-0.19	0.050
62.00	-27.07	-2.16	0.00	-176.79	0.00	176.79	3,471.30	1,735.65	5,431.35	2,719.71	1.24	-0.19	0.050
63.00	-26.86	-2.15	0.00	-174.63	0.00	174.63	3,455.43	1,727.72	5,381.50	2,694.75	1.28	-0.19	0.050
63.50	-26.73	-2.15	0.00	-173.55	0.00	173.55	3,158.12	1,579.06	5,037.43	2,522.46	1.30	-0.19	0.049
64.00	-26.48	-2.15	0.00	-172.48	0.00	172.48	3,152.80	1,576.40	5,017.53	2,512.49	1.32	-0.20	0.049
65.00	-26.24	-2.14	0.00	-170.33	0.00	170.33	3,142.13	1,571.07	4,977.80	2,492.60	1.36	-0.20	0.049
66.00	-25.99	-2.14	0.00	-168.19	0.00	168.19	3,131.44	1,565.72	4,938.17	2,472.75	1.40	-0.20	0.048
67.00	-25.74	-2.13	0.00	-166.05	0.00	166.05	3,120.71	1,560.35	4,898.65	2,452.96	1.45	-0.21	0.048
68.00	-25.49	-2.13	0.00	-163.92	0.00	163.92	3,109.92	1,554.96	4,859.19	2,433.21	1.49	-0.21	0.048
69.00	-25.25	-2.12	0.00	-161.79	0.00	161.79	3,095.65	1,547.82	4,814.46	2,410.81	1.53	-0.21	0.047
70.00	-25.00	-2.12	0.00	-159.66	0.00	159.66	3,081.37	1,540.68	4,769.94	2,388.51	1.58	-0.22	0.047
71.00	-24.76	-2.11	0.00	-157.54	0.00	157.54	3,067.09	1,533.55	4,725.62	2,366.32	1.63	-0.22	0.047
72.00	-24.52	-2.11	0.00	-155.43	0.00	155.43	3,052.81	1,526.41	4,681.51	2,344.23	1.67	-0.22	0.046
73.00	-24.27	-2.10	0.00	-153.32	0.00	153.32	3,038.54	1,519.27	4,637.61	2,322.25	1.72	-0.23	0.046
74.00	-24.03	-2.10	0.00	-151.22	0.00	151.22	3,024.26	1,512.13	4,593.91	2,300.37	1.77	-0.23	0.046
75.00	-23.79	-2.09	0.00	-149.12	0.00	149.12	3,009.98	1,504.99	4,550.42	2,278.59	1.82	-0.23	0.045
76.00	-23.55	-2.08	0.00	-147.03	0.00	147.03	2,995.70	1,497.85	4,507.14	2,256.92	1.87	-0.24	0.045
77.00	-23.30	-2.08	0.00	-144.95	0.00	144.95	2,981.43	1,490.71	4,464.06	2,235.35	1.92	-0.24	0.045
78.00	-23.06	-2.07	0.00	-142.87	0.00	142.87	2,967.15	1,483.57	4,421.19	2,213.88	1.97	-0.24	0.044
79.00	-22.82	-2.06	0.00	-140.80	0.00	140.80	2,952.87	1,476.44	4,378.53	2,192.52	2.02	-0.25	0.044
80.00	-22.59	-2.06	0.00	-138.73	0.00	138.73	2,938.59	1,469.30	4,336.07	2,171.26	2.07	-0.25	0.044
81.00	-22.35	-2.05	0.00	-136.68	0.00	136.68	2,924.32	1,462.16	4,293.83	2,150.10	2.12	-0.25	0.043
82.00	-22.11	-2.04	0.00	-134.63	0.00	134.63	2,910.04	1,455.02	4,251.78	2,129.05	2.18	-0.26	0.043
83.00	-21.87	-2.04	0.00	-132.58	0.00	132.58	2,895.76	1,447.88	4,209.95	2,108.10	2.23	-0.26	0.043
84.00	-21.64	-2.03	0.00	-130.55	0.00	130.55	2,881.48	1,440.74	4,168.32	2,087.26	2.29	-0.26	0.042
85.00	-21.40	-2.02	0.00	-128.52	0.00	128.52	2,867.21	1,433.60	4,126.90	2,066.52	2.34	-0.27	0.042
86.00	-21.16	-2.01	0.00	-126.50	0.00	126.50	2,852.93	1,426.46	4,085.69	2,045.88	2.40	-0.27	0.042
87.00	-20.93	-2.00	0.00	-124.49	0.00	124.49	2,838.65	1,419.33	4,044.68	2,025.35	2.46	-0.27	0.041
88.00	-20.59	-1.99	0.00	-122.48	0.00	122.48	2,824.37	1,412.19	4,003.88	2,004.91	2.51	-0.28	0.041
89.00	-20.26	-1.98	0.00	-120.49	0.00	120.49	2,810.09	1,405.05	3,963.28	1,984.59	2.57	-0.28	0.040
90.00	-19.92	-1.96	0.00	-118.51	0.00	118.51	2,795.82	1,397.91	3,922.90	1,964.36	2.63	-0.28	0.040
91.00	-19.59	-1.95	0.00	-116.55	0.00	116.55	2,781.54	1,390.77	3,882.72	1,944.24	2.69	-0.29	0.039
92.00	-19.26	-1.94	0.00	-114.60	0.00	114.60	2,767.26	1,383.63	3,842.74	1,924.23	2.75	-0.29	0.039
93.00	-19.05	-1.93	0.00	-112.66	0.00	112.66	2,292.76	1,146.38	3,238.31	1,621.56	2.81	-0.29	0.043
94.00	-18.83	-1.92	0.00	-110.73	0.00	110.73	2,284.25	1,142.13	3,209.75	1,607.26	2.88	-0.30	0.043
95.00	-18.62	-1.91	0.00	-108.81	0.00	108.81	2,275.71	1,137.86	3,181.27	1,593.00	2.94	-0.30	0.042
96.00	-18.41	-1.90	0.00	-106.90	0.00	106.90	2,267.14	1,133.57	3,152.86	1,578.78	3.00	-0.30	0.042
97.00	-18.20	-1.89	0.00	-105.00	0.00	105.00	2,258.54	1,129.27	3,124.54	1,564.59	3.07	-0.31	0.041
98.00	-17.99	-1.88	0.00	-103.11	0.00	103.11	2,249.90	1,124.95	3,096.30	1,550.45	3.13	-0.31	0.041
99.00	-17.78	-1.87	0.00	-101.23	0.00	101.23	2,241.24	1,120.62	3,068.14	1,536.35	3.20	-0.31	0.040
100.00	-17.57	-1.86	0.00	-99.35	0.00	99.35	2,232.54	1,116.27	3,040.06	1,522.29	3.26	-0.32	0.040
101.00	-17.36	-1.85	0.00	-97.49	0.00	97.49	2,223.81	1,111.90	3,012.06	1,508.27	3.33	-0.32	0.039
102.00	-17.15	-1.84	0.00	-95.64	0.00	95.64	2,215.04	1,107.52	2,984.14	1,494.29	3.40	-0.32	0.039
103.00	-16.94	-1.83	0.00	-93.80	0.00	93.80	2,206.25	1,103.12	2,956.31	1,480.35	3.47	-0.33	0.038
104.00	-16.73	-1.82	0.00	-91.97	0.00	91.97	2,197.42	1,098.71	2,928.57	1,466.46	3.53	-0.33	0.038
105.00	-16.58	-1.81	0.00	-90.15	0.00	90.15	2,188.56	1,094.28	2,900.91	1,452.61	3.60	-0.33	0.037
105.00	-16.58	-1.81	0.00	-90.15	0.00	90.15	2,188.56	1,094.28	2,900.91	1,452.61	3.60	-0.33	0.070
106.00	-16.43	-1.80	0.00	-88.34	0.00	88.34	2,179.67	1,089.83	2,873.33	1,438.80	3.67	-0.34	0.069
107.00	-16.28	-1.80	0.00	-86.53	0.00	86.53	2,170.74	1,085.37	2,845.85	1,425.04	3.74	-0.34	0.068
108.00	-16.13	-1.79	0.00	-84.73	0.00	84.73	2,161.78	1,080.89	2,818.44	1,411.32	3.82	-0.35	0.068
109.00	-15.99	-1.78	0.00	-82.94	0.00	82.94	2,150.55	1,075.28	2,788.22	1,396.18	3.89	-0.35	0.067
110.00	-15.84	-1.78	0.00	-81.16	0.00	81.16	2,138.65	1,069.33	2,757.31	1,380.70	3.97	-0.36	0.066
111.00	-15.69	-1.77	0.00	-79.39	0.00	79.39	2,126.76	1,063.38	2,726.56	1,365.31	4.04	-0.37	0.066
112.00	-15.54	-1.76	0.00	-77.62	0.00	77.62	2,114.86	1,057.43	2,695.99	1,350.00	4.12	-0.37	0.065
113.00	-15.40	-1.75	0.00	-75.86	0.00	75.86	2,102.96	1,051.48	2,665.59	1,334.78	4.20	-0.38	0.064

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114.00	-15.25	-1.74	0.00	-74.11	0.00	74.11	2,091.06	1,045.53	2,635.36	1,319.64	4.28	-0.38	0.063
115.00	-15.11	-1.73	0.00	-72.37	0.00	72.37	2,079.16	1,039.58	2,605.31	1,304.59	4.36	-0.39	0.063
116.00	-15.03	-1.73	0.00	-70.63	0.00	70.63	2,067.27	1,033.63	2,575.43	1,289.63	4.44	-0.39	0.062
116.50	-14.93	-1.72	0.00	-69.77	0.00	69.77	2,061.32	1,030.66	2,560.55	1,282.18	4.48	-0.40	0.062
117.00	-14.71	-1.71	0.00	-68.90	0.00	68.90	2,055.37	1,027.68	2,545.72	1,274.75	4.52	-0.40	0.061
118.00	-14.50	-1.70	0.00	-67.19	0.00	67.19	2,043.47	1,021.73	2,516.18	1,259.96	4.61	-0.41	0.060
119.00	-14.28	-1.68	0.00	-65.50	0.00	65.50	2,031.57	1,015.79	2,486.81	1,245.26	4.69	-0.41	0.060
120.00	-14.07	-1.67	0.00	-63.82	0.00	63.82	2,019.67	1,009.84	2,457.62	1,230.64	4.78	-0.42	0.059
121.00	-13.95	-1.66	0.00	-62.15	0.00	62.15	1,562.89	781.45	1,930.84	966.86	4.87	-0.42	0.073
122.00	-13.82	-1.65	0.00	-60.50	0.00	60.50	1,556.55	778.28	1,911.74	957.29	4.96	-0.43	0.072
123.00	-13.69	-1.64	0.00	-58.85	0.00	58.85	1,550.18	775.09	1,892.68	947.75	5.05	-0.43	0.071
124.00	-13.57	-1.63	0.00	-57.20	0.00	57.20	1,543.77	771.89	1,873.68	938.23	5.14	-0.44	0.070
125.00	-13.44	-1.62	0.00	-55.57	0.00	55.57	1,537.34	768.67	1,854.73	928.74	5.23	-0.45	0.069
126.00	-13.32	-1.62	0.00	-53.95	0.00	53.95	1,530.87	765.43	1,835.84	919.28	5.33	-0.45	0.067
127.00	-10.75	-1.40	0.00	-52.33	0.00	52.33	1,524.37	762.18	1,817.00	909.85	5.42	-0.46	0.065
128.00	-10.64	-1.39	0.00	-50.93	0.00	50.93	1,517.84	758.92	1,798.22	900.45	5.52	-0.46	0.064
129.00	-10.53	-1.39	0.00	-49.54	0.00	49.54	1,511.27	755.64	1,779.50	891.07	5.62	-0.47	0.063
130.00	-10.42	-1.38	0.00	-48.15	0.00	48.15	1,504.67	752.34	1,760.83	881.72	5.72	-0.48	0.062
131.00	-10.31	-1.37	0.00	-46.78	0.00	46.78	1,498.04	749.02	1,742.22	872.40	5.82	-0.48	0.061
132.00	-10.20	-1.36	0.00	-45.41	0.00	45.41	1,491.38	745.69	1,723.67	863.12	5.92	-0.49	0.059
133.00	-10.09	-1.35	0.00	-44.05	0.00	44.05	1,484.69	742.34	1,705.18	853.86	6.02	-0.49	0.058
134.00	-9.98	-1.34	0.00	-42.70	0.00	42.70	1,477.96	738.98	1,686.75	844.63	6.13	-0.50	0.057
135.00	-9.88	-1.33	0.00	-41.36	0.00	41.36	1,471.20	735.60	1,668.38	835.43	6.23	-0.51	0.056
136.00	-9.77	-1.32	0.00	-40.03	0.00	40.03	1,464.41	732.21	1,650.07	826.26	6.34	-0.51	0.055
137.00	-9.66	-1.31	0.00	-38.70	0.00	38.70	1,457.59	728.80	1,631.83	817.13	6.44	-0.52	0.054
138.00	-9.55	-1.30	0.00	-37.39	0.00	37.39	1,450.74	725.37	1,613.64	808.02	6.55	-0.52	0.053
139.00	-9.45	-1.29	0.00	-36.09	0.00	36.09	1,443.85	721.92	1,595.53	798.95	6.66	-0.53	0.052
140.00	-9.34	-1.28	0.00	-34.79	0.00	34.79	1,436.93	718.47	1,577.47	789.91	6.77	-0.53	0.051
141.00	-9.24	-1.27	0.00	-33.51	0.00	33.51	1,429.98	714.99	1,559.48	780.90	6.89	-0.54	0.049
142.00	-9.13	-1.26	0.00	-32.24	0.00	32.24	1,423.00	711.50	1,541.56	771.93	7.00	-0.54	0.048
143.00	-9.03	-1.25	0.00	-30.97	0.00	30.97	1,415.98	707.99	1,523.71	762.99	7.11	-0.55	0.047
144.00	-8.92	-1.24	0.00	-29.72	0.00	29.72	1,408.93	704.47	1,505.92	754.08	7.23	-0.55	0.046
145.00	-8.81	-1.23	0.00	-28.48	0.00	28.48	1,401.85	700.93	1,488.20	745.20	7.34	-0.56	0.044
146.00	-7.53	-1.09	0.00	-27.24	0.00	27.24	1,394.74	697.37	1,470.54	736.36	7.46	-0.56	0.042
147.00	-7.44	-1.08	0.00	-26.15	0.00	26.15	1,387.60	693.80	1,452.96	727.56	7.58	-0.57	0.041
148.00	-7.35	-1.07	0.00	-25.07	0.00	25.07	1,379.83	689.92	1,434.84	718.48	7.70	-0.57	0.040
149.00	-7.21	-1.06	0.00	-24.00	0.00	24.00	1,370.32	685.16	1,415.01	708.56	7.82	-0.57	0.039
150.00	-7.08	-1.04	0.00	-22.94	0.00	22.94	1,360.80	680.40	1,395.33	698.70	7.94	-0.58	0.038
151.00	-6.95	-1.03	0.00	-21.90	0.00	21.90	1,351.28	675.64	1,375.78	688.91	8.06	-0.58	0.037
152.00	-6.88	-1.02	0.00	-20.87	0.00	20.87	1,341.76	670.88	1,356.37	679.19	8.18	-0.59	0.036
152.50	-6.84	-1.02	0.00	-20.36	0.00	20.36	942.35	471.17	968.66	485.05	8.24	-0.59	0.049
153.00	-6.77	-1.01	0.00	-19.85	0.00	19.85	940.20	470.10	963.05	482.24	8.31	-0.59	0.048
154.00	-6.69	-1.00	0.00	-18.84	0.00	18.84	935.87	467.94	951.84	476.63	8.43	-0.59	0.047
155.00	-6.62	-0.99	0.00	-17.84	0.00	17.84	931.51	465.76	940.66	471.03	8.55	-0.60	0.045
156.00	-6.55	-0.98	0.00	-16.85	0.00	16.85	927.12	463.56	929.51	465.45	8.68	-0.60	0.043
157.00	-6.47	-0.97	0.00	-15.87	0.00	15.87	922.70	461.35	918.40	459.88	8.81	-0.61	0.042
158.00	-6.40	-0.96	0.00	-14.90	0.00	14.90	918.25	459.12	907.31	454.33	8.94	-0.61	0.040
159.00	-6.33	-0.96	0.00	-13.93	0.00	13.93	913.76	456.88	896.26	448.80	9.06	-0.62	0.038
160.00	-6.26	-0.95	0.00	-12.98	0.00	12.98	909.24	454.62	885.24	443.28	9.19	-0.62	0.036
161.00	-6.18	-0.94	0.00	-12.03	0.00	12.03	904.69	452.35	874.26	437.78	9.32	-0.62	0.034
162.00	-6.11	-0.93	0.00	-11.10	0.00	11.10	900.11	450.06	863.31	432.30	9.45	-0.63	0.032
163.00	-6.04	-0.92	0.00	-10.17	0.00	10.17	895.50	447.75	852.40	426.83	9.59	-0.63	0.031
164.00	-5.97	-0.91	0.00	-9.25	0.00	9.25	890.85	445.42	841.52	421.39	9.72	-0.63	0.029
165.00	-5.90	-0.90	0.00	-8.34	0.00	8.34	886.17	443.09	830.68	415.96	9.85	-0.64	0.027
166.00	-5.83	-0.89	0.00	-7.44	0.00	7.44	881.46	440.73	819.88	410.55	9.98	-0.64	0.025
167.00	-2.91	-0.48	0.00	-6.55	0.00	6.55	876.72	438.36	809.12	405.16	10.12	-0.64	0.019
168.00	-2.86	-0.47	0.00	-6.07	0.00	6.07	871.94	435.97	798.40	399.79	10.25	-0.64	0.018
169.00	-2.80	-0.46	0.00	-5.60	0.00	5.60	867.13	433.57	787.71	394.44	10.39	-0.64	0.017
170.00	-2.74	-0.45	0.00	-5.14	0.00	5.14	862.29	431.15	777.07	389.11	10.52	-0.65	0.016
171.00	-2.62	-0.43	0.00	-4.69	0.00	4.69	857.42	428.71	766.47	383.80	10.66	-0.65	0.015
172.00	-2.57	-0.43	0.00	-4.26	0.00	4.26	852.52	426.26	755.91	378.52	10.79	-0.65	0.014
173.00	-2.51	-0.42	0.00	-3.83	0.00	3.83	847.58	423.79	745.39	373.25	10.93	-0.65	0.013
174.00	-2.46	-0.41	0.00	-3.41	0.00	3.41	842.61	421.31	734.92	368.01	11.07	-0.65	0.012
175.00	-2.41	-0.40	0.00	-3.00	0.00	3.00	837.61	418.81	724.49	362.78	11.20	-0.65	0.011

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176.00	-2.36	-0.40	0.00	-2.60	0.00	2.60	832.58	416.29	714.11	357.59	11.34	-0.65	0.010
177.00	-2.31	-0.39	0.00	-2.20	0.00	2.20	827.51	413.76	703.77	352.41	11.48	-0.66	0.009
178.00	-2.26	-0.38	0.00	-1.81	0.00	1.81	822.42	411.21	693.48	347.26	11.62	-0.66	0.008
179.00	-2.21	-0.37	0.00	-1.43	0.00	1.43	817.29	408.64	683.23	342.12	11.75	-0.66	0.007
180.00	-2.16	-0.36	0.00	-1.06	0.00	1.06	812.13	406.06	673.04	337.02	11.89	-0.66	0.006
181.00	-2.11	-0.35	0.00	-0.70	0.00	0.70	806.93	403.47	662.89	331.94	12.03	-0.66	0.005
182.00	-2.06	-0.35	0.00	-0.35	0.00	0.35	801.71	400.85	652.79	326.88	12.17	-0.66	0.004
183.00	0.00	-0.32	0.00	0.00	0.00	0.00	796.45	398.23	642.74	321.85	12.30	-0.66	0.000

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Equivalent Modal Forces Analysis

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Importance Factor (I_E):	1.00
Site Coefficient F_a:	1.60
Site Coefficient F_v	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Desing Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	2.88
Redundancy Factor (p):	1.30

Load Case (1.2 + 0.2Sds) * DL + E EMAM Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	58	1.880	1.926	1.121	0.376	19	72
187	181.50	58	1.859	1.821	1.082	0.362	18	72
186	180.50	59	1.839	1.720	1.045	0.349	18	73
185	179.50	59	1.818	1.623	1.009	0.335	17	73
184	178.50	59	1.798	1.530	0.974	0.322	17	74
183	177.50	60	1.778	1.441	0.940	0.309	16	74
182	176.50	60	1.758	1.355	0.907	0.296	15	74
181	175.50	60	1.738	1.273	0.875	0.284	15	75
180	174.50	61	1.719	1.194	0.843	0.271	14	75
179	173.50	61	1.699	1.118	0.813	0.259	14	76
178	172.50	61	1.679	1.045	0.783	0.247	13	76
177	171.50	62	1.660	0.976	0.755	0.236	13	77
176	170.50	67	1.641	0.910	0.727	0.224	13	83
175	169.50	67	1.621	0.846	0.700	0.213	12	84
174	168.50	68	1.602	0.786	0.673	0.202	12	84
173	167.50	68	1.583	0.728	0.648	0.192	11	85
172	166.50	82	1.565	0.673	0.623	0.181	13	102
171	165.50	83	1.546	0.620	0.599	0.171	12	102
170	164.50	83	1.527	0.570	0.576	0.161	12	103
169	163.50	83	1.509	0.523	0.553	0.151	11	103
168	162.50	84	1.490	0.477	0.531	0.142	10	104
167	161.50	84	1.472	0.434	0.510	0.133	10	104
166	160.50	84	1.454	0.394	0.490	0.123	9	105
165	159.50	85	1.436	0.355	0.470	0.115	8	105
164	158.50	85	1.418	0.318	0.450	0.106	8	105
163	157.50	85	1.400	0.284	0.432	0.098	7	106
162	156.50	86	1.382	0.251	0.414	0.089	7	106
161	155.50	86	1.365	0.220	0.396	0.081	6	107
160	154.50	86	1.347	0.191	0.379	0.074	6	107
159	153.50	87	1.330	0.164	0.363	0.066	5	108
158	152.75	44	1.317	0.144	0.351	0.061	2	54
157	152.25	77	1.308	0.132	0.343	0.057	4	95
156	151.50	154	1.295	0.114	0.332	0.052	7	191
155	150.50	155	1.278	0.092	0.317	0.045	6	192

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154	149.50	156	1.261	0.070	0.303	0.038	5	194
153	148.50	105	1.245	0.051	0.289	0.032	3	130
152	147.50	105	1.228	0.033	0.276	0.025	2	131
151	146.50	106	1.211	0.016	0.263	0.019	2	131
150	145.50	121	1.195	0.000	0.251	0.013	1	150
149	144.50	121	1.178	-0.015	0.239	0.008	1	151
148	143.50	122	1.162	-0.028	0.228	0.002	0	151
147	142.50	122	1.146	-0.040	0.217	-0.003	0	152
146	141.50	123	1.130	-0.051	0.206	-0.008	-1	152
145	140.50	123	1.114	-0.062	0.196	-0.012	-1	153
144	139.50	124	1.098	-0.071	0.186	-0.017	-2	154
143	138.50	124	1.083	-0.079	0.176	-0.021	-2	154
142	137.50	125	1.067	-0.087	0.167	-0.025	-3	155
141	136.50	125	1.052	-0.093	0.158	-0.029	-3	155
140	135.50	126	1.036	-0.099	0.150	-0.033	-4	156
139	134.50	126	1.021	-0.104	0.142	-0.036	-4	156
138	133.50	127	1.006	-0.108	0.134	-0.040	-4	157
137	132.50	127	0.991	-0.112	0.127	-0.043	-5	158
136	131.50	128	0.976	-0.115	0.120	-0.046	-5	158
135	130.50	128	0.961	-0.117	0.113	-0.048	-5	159
134	129.50	128	0.946	-0.119	0.106	-0.051	-6	159
133	128.50	129	0.932	-0.121	0.100	-0.053	-6	160
132	127.50	129	0.917	-0.121	0.094	-0.055	-6	161
131	126.50	144	0.903	-0.122	0.089	-0.056	-7	179
130	125.50	145	0.889	-0.122	0.083	-0.058	-7	180
129	124.50	145	0.875	-0.121	0.078	-0.059	-7	180
128	123.50	146	0.861	-0.120	0.073	-0.060	-8	181
127	122.50	146	0.847	-0.119	0.068	-0.061	-8	182
126	121.50	147	0.833	-0.117	0.064	-0.062	-8	182
125	120.50	247	0.819	-0.115	0.060	-0.062	-13	307
124	119.50	248	0.806	-0.113	0.056	-0.062	-13	308
123	118.50	249	0.792	-0.110	0.052	-0.062	-13	309
122	117.50	250	0.779	-0.108	0.048	-0.062	-13	311
121	116.75	126	0.769	-0.106	0.045	-0.062	-7	156
120	116.25	84	0.763	-0.104	0.044	-0.061	-4	104
119	115.50	169	0.753	-0.102	0.041	-0.061	-9	209
118	114.50	169	0.740	-0.098	0.038	-0.060	-9	210
117	113.50	170	0.727	-0.095	0.035	-0.059	-9	211
116	112.50	170	0.714	-0.091	0.033	-0.057	-8	211
115	111.50	171	0.702	-0.087	0.030	-0.056	-8	212
114	110.50	172	0.689	-0.084	0.028	-0.054	-8	213
113	109.50	172	0.677	-0.080	0.026	-0.052	-8	214
112	108.50	173	0.664	-0.075	0.023	-0.050	-7	214
111	107.50	173	0.652	-0.071	0.022	-0.047	-7	215
110	106.50	174	0.640	-0.067	0.020	-0.044	-7	216
109	105.50	175	0.628	-0.063	0.018	-0.042	-6	217
108	104.50	242	0.616	-0.059	0.016	-0.039	-8	300
107	103.50	243	0.605	-0.055	0.015	-0.036	-7	301
106	102.50	243	0.593	-0.050	0.014	-0.032	-7	302
105	101.50	244	0.581	-0.046	0.013	-0.029	-6	302
104	100.50	244	0.570	-0.042	0.012	-0.025	-5	303
103	99.50	245	0.559	-0.038	0.011	-0.022	-5	304
102	98.50	246	0.548	-0.034	0.010	-0.018	-4	305
101	97.50	246	0.536	-0.030	0.009	-0.014	-3	305
100	96.50	247	0.526	-0.025	0.008	-0.011	-2	306
99	95.50	247	0.515	-0.022	0.008	-0.007	-1	307
98	94.50	248	0.504	-0.018	0.007	-0.003	-1	308
97	93.50	248	0.493	-0.014	0.007	0.001	0	308
96	92.50	386	0.483	-0.010	0.006	0.005	2	479
95	91.50	387	0.472	-0.006	0.006	0.008	3	481
94	90.50	389	0.462	-0.003	0.006	0.012	4	482
93	89.50	390	0.452	0.001	0.006	0.015	5	484
92	88.50	391	0.442	0.004	0.006	0.019	6	485
91	87.50	273	0.432	0.008	0.006	0.022	5	339

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90	86.50	274	0.422	0.011	0.006	0.025	6	340
89	85.50	275	0.413	0.014	0.006	0.028	7	341
88	84.50	275	0.403	0.017	0.006	0.031	7	342
87	83.50	276	0.393	0.020	0.007	0.034	8	342
86	82.50	277	0.384	0.023	0.007	0.037	9	343
85	81.50	277	0.375	0.026	0.007	0.039	9	344
84	80.50	278	0.366	0.028	0.008	0.041	10	345
83	79.50	279	0.357	0.031	0.008	0.043	11	346
82	78.50	279	0.348	0.033	0.009	0.045	11	347
81	77.50	280	0.339	0.036	0.009	0.047	11	348
80	76.50	281	0.330	0.038	0.010	0.049	12	349
79	75.50	282	0.322	0.040	0.011	0.051	12	349
78	74.50	282	0.313	0.042	0.011	0.052	13	350
77	73.50	283	0.305	0.044	0.012	0.053	13	351
76	72.50	284	0.297	0.046	0.013	0.054	13	352
75	71.50	284	0.289	0.048	0.013	0.056	14	353
74	70.50	285	0.281	0.049	0.014	0.056	14	354
73	69.50	286	0.273	0.051	0.015	0.057	14	355
72	68.50	287	0.265	0.053	0.016	0.058	14	356
71	67.50	287	0.257	0.054	0.016	0.059	15	356
70	66.50	288	0.250	0.055	0.017	0.059	15	357
69	65.50	289	0.242	0.057	0.018	0.060	15	358
68	64.50	289	0.235	0.058	0.019	0.060	15	359
67	63.75	145	0.229	0.059	0.019	0.060	8	180
66	63.25	248	0.226	0.059	0.020	0.060	13	308
65	62.50	497	0.220	0.060	0.021	0.061	26	617
64	61.50	499	0.213	0.061	0.021	0.061	26	619
63	60.50	500	0.207	0.062	0.022	0.061	26	621
62	59.50	502	0.200	0.063	0.023	0.061	27	623
61	58.50	504	0.193	0.064	0.024	0.061	27	625
60	57.50	344	0.187	0.064	0.025	0.061	18	426
59	56.50	344	0.180	0.065	0.026	0.061	18	427
58	55.50	345	0.174	0.066	0.027	0.061	18	429
57	54.50	346	0.168	0.066	0.028	0.061	18	430
56	53.50	347	0.162	0.067	0.028	0.061	18	431
55	52.50	348	0.156	0.067	0.029	0.061	18	432
54	51.50	349	0.150	0.068	0.030	0.060	18	433
53	50.50	350	0.144	0.068	0.031	0.060	18	434
52	49.50	351	0.138	0.069	0.032	0.060	18	436
51	48.50	352	0.133	0.069	0.033	0.060	18	437
50	47.50	353	0.127	0.070	0.033	0.060	18	438
49	46.50	354	0.122	0.070	0.034	0.059	18	439
48	45.50	355	0.117	0.070	0.035	0.059	18	440
47	44.50	356	0.112	0.070	0.036	0.059	18	442
46	43.50	357	0.107	0.071	0.036	0.059	18	443
45	42.50	358	0.102	0.071	0.037	0.058	18	444
44	41.50	359	0.097	0.071	0.038	0.058	18	445
43	40.50	360	0.093	0.071	0.038	0.058	18	446
42	39.50	361	0.088	0.071	0.039	0.058	18	447
41	38.50	362	0.084	0.072	0.039	0.058	18	449
40	37.50	362	0.079	0.072	0.040	0.057	18	450
39	36.50	363	0.075	0.072	0.040	0.057	18	451
38	35.50	364	0.071	0.072	0.040	0.057	18	452
37	34.50	593	0.067	0.072	0.041	0.057	29	735
36	33.50	594	0.063	0.072	0.041	0.056	29	738
35	32.50	596	0.060	0.072	0.041	0.056	29	740
34	31.50	598	0.056	0.071	0.042	0.056	29	742
33	30.50	600	0.053	0.071	0.042	0.056	29	745
32	29.50	602	0.049	0.071	0.042	0.055	29	747
31	28.75	302	0.047	0.071	0.042	0.055	14	374
30	28.25	183	0.045	0.071	0.042	0.055	9	227
29	27.50	366	0.043	0.070	0.042	0.055	17	455
28	26.50	367	0.040	0.070	0.042	0.054	17	456
27	25.50	368	0.037	0.070	0.041	0.054	17	457

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26	24.50	369	0.034	0.069	0.041	0.054	17	458
25	23.50	370	0.031	0.068	0.041	0.053	17	459
24	22.75	185	0.029	0.068	0.040	0.053	9	230
23	22.25	186	0.028	0.068	0.040	0.053	8	230
22	21.50	372	0.026	0.067	0.040	0.052	17	462
21	20.50	373	0.024	0.066	0.039	0.052	17	463
20	19.50	374	0.021	0.065	0.038	0.051	17	464
19	18.50	375	0.019	0.064	0.038	0.051	16	465
18	17.50	376	0.017	0.062	0.037	0.050	16	466
17	16.50	377	0.015	0.061	0.036	0.049	16	468
16	15.50	378	0.014	0.059	0.035	0.048	16	469
15	14.50	379	0.012	0.057	0.033	0.047	15	470
14	13.50	380	0.010	0.055	0.032	0.046	15	471
13	12.50	381	0.009	0.053	0.031	0.044	15	472
12	11.50	382	0.007	0.051	0.029	0.043	14	473
11	10.50	383	0.006	0.048	0.027	0.041	14	475
10	9.50	383	0.005	0.045	0.025	0.039	13	476
9	8.50	384	0.004	0.042	0.023	0.037	12	477
8	7.50	385	0.003	0.038	0.021	0.035	12	478
7	6.50	386	0.002	0.034	0.019	0.032	11	479
6	5.50	387	0.002	0.030	0.016	0.029	10	481
5	4.50	322	0.001	0.025	0.014	0.025	7	400
4	3.50	323	0.001	0.021	0.011	0.021	6	401
3	2.50	324	0.000	0.015	0.008	0.016	4	402
2	1.50	325	0.000	0.009	0.005	0.010	3	404
1	0.50	326	0.000	0.003	0.002	0.004	1	405
DragonWave Horizon C	183.00	21	1.890	1.980	1.140	0.384	7	26
NextNet BTS-2500	183.00	105	1.890	1.980	1.140	0.384	35	130
Decibel DB844H90E-XY	183.00	84	1.890	1.980	1.140	0.384	28	104
Argus LLPX310R	183.00	86	1.890	1.980	1.140	0.384	29	106
DragonWave A-ANT-18G	183.00	54	1.890	1.980	1.140	0.384	18	67
Andrew 844G65VTZASX	183.00	48	1.890	1.980	1.140	0.384	16	60
Flat Platform w/ Han	183.00	2,000	1.890	1.980	1.140	0.384	665	2,481
RFS APXV18-206517S-C	171.00	79	1.650	0.943	0.740	0.230	16	98
Commscope WCS-	167.00	30	1.574	0.700	0.635	0.187	5	37
Powerwave Allgon LGP	167.00	42	1.574	0.700	0.635	0.187	7	52
Powerwave Allgon LGP	167.00	85	1.574	0.700	0.635	0.187	14	105
Raycap DC6-48-60-18-	167.00	40	1.574	0.700	0.635	0.187	6	50
Ericsson RRUS 11 (Ba	167.00	132	1.574	0.700	0.635	0.187	21	164
Ericsson RRUS 32 B2	167.00	159	1.574	0.700	0.635	0.187	26	197
Ericsson RRUS-32	167.00	231	1.574	0.700	0.635	0.187	37	287
Powerwave Allgon 777	167.00	105	1.574	0.700	0.635	0.187	17	130
CCI OPA-65R-LCUU-H4	167.00	171	1.574	0.700	0.635	0.187	28	212
Quintel QS66512-2	167.00	333	1.574	0.700	0.635	0.187	54	413
Flat Platform w/ Han	167.00	2,000	1.574	0.700	0.635	0.187	323	2,481
Andrew ETW200VS12UB	146.00	33	1.203	0.008	0.257	0.016	0	41
Andrew ETW190VS12UB	146.00	33	1.203	0.008	0.257	0.016	0	41
Andrew SBNHH-1D65A	146.00	123	1.203	0.008	0.257	0.016	2	152
Flat Light Sector Fr	146.00	1,200	1.203	0.008	0.257	0.016	17	1,489
Kathrein Scala Smart	145.00	10	1.187	-0.008	0.245	0.011	0	12
RFS FD9R6004/1C-3L	127.00	19	0.910	-0.122	0.091	-0.056	-1	23
Alcatel-Lucent RRH2X	127.00	138	0.910	-0.122	0.091	-0.056	-7	171
Alcatel-Lucent RRH2X	127.00	132	0.910	-0.122	0.091	-0.056	-6	164
Alcatel-Lucent RRH2x	127.00	132	0.910	-0.122	0.091	-0.056	-6	164
RFS DB-T1-6Z-8AB-0Z	127.00	44	0.910	-0.122	0.091	-0.056	-2	55
RFS DB-T1-6Z-8AB-0Z	127.00	44	0.910	-0.122	0.091	-0.056	-2	55
Andrew HBXX-6516DS-A	127.00	92	0.910	-0.122	0.091	-0.056	-4	114
Andrew LNX-4514DS-A1	127.00	89	0.910	-0.122	0.091	-0.056	-4	110
Antel BXA-80063/6CF	127.00	45	0.910	-0.122	0.091	-0.056	-2	55
Andrew HBXX-6517DS-A	127.00	129	0.910	-0.122	0.091	-0.056	-6	160
Flat Platform w/ Han	127.00	2,000	0.910	-0.122	0.091	-0.056	-96	2,481
Thales PCS VP/360/2	7.00	1	0.003	0.036	0.020	0.033	0	1
Stand-Off	7.00	75	0.003	0.036	0.020	0.033	2	93

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	56,588	165.880	48.327	47.890	13.563	2,756	70,212

Load Case (0.9 - 0.2Sds) * DL + E EMAM Seismic (Reduced DL) Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
188	182.50	58	1.880	1.926	1.121	0.376	19	50
187	181.50	58	1.859	1.821	1.082	0.362	18	50
186	180.50	59	1.839	1.720	1.045	0.349	18	50
185	179.50	59	1.818	1.623	1.009	0.335	17	51
184	178.50	59	1.798	1.530	0.974	0.322	17	51
183	177.50	60	1.778	1.441	0.940	0.309	16	51
182	176.50	60	1.758	1.355	0.907	0.296	15	52
181	175.50	60	1.738	1.273	0.875	0.284	15	52
180	174.50	61	1.719	1.194	0.843	0.271	14	52
179	173.50	61	1.699	1.118	0.813	0.259	14	52
178	172.50	61	1.679	1.045	0.783	0.247	13	53
177	171.50	62	1.660	0.976	0.755	0.236	13	53
176	170.50	67	1.641	0.910	0.727	0.224	13	58
175	169.50	67	1.621	0.846	0.700	0.213	12	58
174	168.50	68	1.602	0.786	0.673	0.202	12	58
173	167.50	68	1.583	0.728	0.648	0.192	11	59
172	166.50	82	1.565	0.673	0.623	0.181	13	71
171	165.50	83	1.546	0.620	0.599	0.171	12	71
170	164.50	83	1.527	0.570	0.576	0.161	12	71
169	163.50	83	1.509	0.523	0.553	0.151	11	72
168	162.50	84	1.490	0.477	0.531	0.142	10	72
167	161.50	84	1.472	0.434	0.510	0.133	10	72
166	160.50	84	1.454	0.394	0.490	0.123	9	72
165	159.50	85	1.436	0.355	0.470	0.115	8	73
164	158.50	85	1.418	0.318	0.450	0.106	8	73
163	157.50	85	1.400	0.284	0.432	0.098	7	73
162	156.50	86	1.382	0.251	0.414	0.089	7	74
161	155.50	86	1.365	0.220	0.396	0.081	6	74
160	154.50	86	1.347	0.191	0.379	0.074	6	74
159	153.50	87	1.330	0.164	0.363	0.066	5	75
158	152.75	44	1.317	0.144	0.351	0.061	2	37
157	152.25	77	1.308	0.132	0.343	0.057	4	66
156	151.50	154	1.295	0.114	0.332	0.052	7	133
155	150.50	155	1.278	0.092	0.317	0.045	6	133
154	149.50	156	1.261	0.070	0.303	0.038	5	134
153	148.50	105	1.245	0.051	0.289	0.032	3	90
152	147.50	105	1.228	0.033	0.276	0.025	2	90
151	146.50	106	1.211	0.016	0.263	0.019	2	91
150	145.50	121	1.195	0.000	0.251	0.013	1	104
149	144.50	121	1.178	-0.015	0.239	0.008	1	104
148	143.50	122	1.162	-0.028	0.228	0.002	0	105
147	142.50	122	1.146	-0.040	0.217	-0.003	0	105
146	141.50	123	1.130	-0.051	0.206	-0.008	-1	106
145	140.50	123	1.114	-0.062	0.196	-0.012	-1	106
144	139.50	124	1.098	-0.071	0.186	-0.017	-2	106
143	138.50	124	1.083	-0.079	0.176	-0.021	-2	107
142	137.50	125	1.067	-0.087	0.167	-0.025	-3	107
141	136.50	125	1.052	-0.093	0.158	-0.029	-3	108
140	135.50	126	1.036	-0.099	0.150	-0.033	-4	108
139	134.50	126	1.021	-0.104	0.142	-0.036	-4	108
138	133.50	127	1.006	-0.108	0.134	-0.040	-4	109
137	132.50	127	0.991	-0.112	0.127	-0.043	-5	109
136	131.50	128	0.976	-0.115	0.120	-0.046	-5	110

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135	130.50	128	0.961	-0.117	0.113	-0.048	-5	110
134	129.50	128	0.946	-0.119	0.106	-0.051	-6	110
133	128.50	129	0.932	-0.121	0.100	-0.053	-6	111
132	127.50	129	0.917	-0.121	0.094	-0.055	-6	111
131	126.50	144	0.903	-0.122	0.089	-0.056	-7	124
130	125.50	145	0.889	-0.122	0.083	-0.058	-7	125
129	124.50	145	0.875	-0.121	0.078	-0.059	-7	125
128	123.50	146	0.861	-0.120	0.073	-0.060	-8	125
127	122.50	146	0.847	-0.119	0.068	-0.061	-8	126
126	121.50	147	0.833	-0.117	0.064	-0.062	-8	126
125	120.50	247	0.819	-0.115	0.060	-0.062	-13	212
124	119.50	248	0.806	-0.113	0.056	-0.062	-13	213
123	118.50	249	0.792	-0.110	0.052	-0.062	-13	214
122	117.50	250	0.779	-0.108	0.048	-0.062	-13	215
121	116.75	126	0.769	-0.106	0.045	-0.062	-7	108
120	116.25	84	0.763	-0.104	0.044	-0.061	-4	72
119	115.50	169	0.753	-0.102	0.041	-0.061	-9	145
118	114.50	169	0.740	-0.098	0.038	-0.060	-9	145
117	113.50	170	0.727	-0.095	0.035	-0.059	-9	146
116	112.50	170	0.714	-0.091	0.033	-0.057	-8	146
115	111.50	171	0.702	-0.087	0.030	-0.056	-8	147
114	110.50	172	0.689	-0.084	0.028	-0.054	-8	147
113	109.50	172	0.677	-0.080	0.026	-0.052	-8	148
112	108.50	173	0.664	-0.075	0.023	-0.050	-7	148
111	107.50	173	0.652	-0.071	0.022	-0.047	-7	149
110	106.50	174	0.640	-0.067	0.020	-0.044	-7	150
109	105.50	175	0.628	-0.063	0.018	-0.042	-6	150
108	104.50	242	0.616	-0.059	0.016	-0.039	-8	208
107	103.50	243	0.605	-0.055	0.015	-0.036	-7	208
106	102.50	243	0.593	-0.050	0.014	-0.032	-7	209
105	101.50	244	0.581	-0.046	0.013	-0.029	-6	209
104	100.50	244	0.570	-0.042	0.012	-0.025	-5	210
103	99.50	245	0.559	-0.038	0.011	-0.022	-5	210
102	98.50	246	0.548	-0.034	0.010	-0.018	-4	211
101	97.50	246	0.536	-0.030	0.009	-0.014	-3	211
100	96.50	247	0.526	-0.025	0.008	-0.011	-2	212
99	95.50	247	0.515	-0.022	0.008	-0.007	-1	212
98	94.50	248	0.504	-0.018	0.007	-0.003	-1	213
97	93.50	248	0.493	-0.014	0.007	0.001	0	214
96	92.50	386	0.483	-0.010	0.006	0.005	2	332
95	91.50	387	0.472	-0.006	0.006	0.008	3	333
94	90.50	389	0.462	-0.003	0.006	0.012	4	334
93	89.50	390	0.452	0.001	0.006	0.015	5	335
92	88.50	391	0.442	0.004	0.006	0.019	6	336
91	87.50	273	0.432	0.008	0.006	0.022	5	235
90	86.50	274	0.422	0.011	0.006	0.025	6	235
89	85.50	275	0.413	0.014	0.006	0.028	7	236
88	84.50	275	0.403	0.017	0.006	0.031	7	236
87	83.50	276	0.393	0.020	0.007	0.034	8	237
86	82.50	277	0.384	0.023	0.007	0.037	9	238
85	81.50	277	0.375	0.026	0.007	0.039	9	238
84	80.50	278	0.366	0.028	0.008	0.041	10	239
83	79.50	279	0.357	0.031	0.008	0.043	11	240
82	78.50	279	0.348	0.033	0.009	0.045	11	240
81	77.50	280	0.339	0.036	0.009	0.047	11	241
80	76.50	281	0.330	0.038	0.010	0.049	12	241
79	75.50	282	0.322	0.040	0.011	0.051	12	242
78	74.50	282	0.313	0.042	0.011	0.052	13	243
77	73.50	283	0.305	0.044	0.012	0.053	13	243
76	72.50	284	0.297	0.046	0.013	0.054	13	244
75	71.50	284	0.289	0.048	0.013	0.056	14	244
74	70.50	285	0.281	0.049	0.014	0.056	14	245
73	69.50	286	0.273	0.051	0.015	0.057	14	246
72	68.50	287	0.265	0.053	0.016	0.058	14	246

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71	67.50	287	0.257	0.054	0.016	0.059	15	247
70	66.50	288	0.250	0.055	0.017	0.059	15	247
69	65.50	289	0.242	0.057	0.018	0.060	15	248
68	64.50	289	0.235	0.058	0.019	0.060	15	249
67	63.75	145	0.229	0.059	0.019	0.060	8	125
66	63.25	248	0.226	0.059	0.020	0.060	13	213
65	62.50	497	0.220	0.060	0.021	0.061	26	427
64	61.50	499	0.213	0.061	0.021	0.061	26	428
63	60.50	500	0.207	0.062	0.022	0.061	26	430
62	59.50	502	0.200	0.063	0.023	0.061	27	431
61	58.50	504	0.193	0.064	0.024	0.061	27	433
60	57.50	344	0.187	0.064	0.025	0.061	18	295
59	56.50	344	0.180	0.065	0.026	0.061	18	296
58	55.50	345	0.174	0.066	0.027	0.061	18	297
57	54.50	346	0.168	0.066	0.028	0.061	18	298
56	53.50	347	0.162	0.067	0.028	0.061	18	298
55	52.50	348	0.156	0.067	0.029	0.061	18	299
54	51.50	349	0.150	0.068	0.030	0.060	18	300
53	50.50	350	0.144	0.068	0.031	0.060	18	301
52	49.50	351	0.138	0.069	0.032	0.060	18	302
51	48.50	352	0.133	0.069	0.033	0.060	18	303
50	47.50	353	0.127	0.070	0.033	0.060	18	303
49	46.50	354	0.122	0.070	0.034	0.059	18	304
48	45.50	355	0.117	0.070	0.035	0.059	18	305
47	44.50	356	0.112	0.070	0.036	0.059	18	306
46	43.50	357	0.107	0.071	0.036	0.059	18	307
45	42.50	358	0.102	0.071	0.037	0.058	18	307
44	41.50	359	0.097	0.071	0.038	0.058	18	308
43	40.50	360	0.093	0.071	0.038	0.058	18	309
42	39.50	361	0.088	0.071	0.039	0.058	18	310
41	38.50	362	0.084	0.072	0.039	0.058	18	311
40	37.50	362	0.079	0.072	0.040	0.057	18	311
39	36.50	363	0.075	0.072	0.040	0.057	18	312
38	35.50	364	0.071	0.072	0.040	0.057	18	313
37	34.50	593	0.067	0.072	0.041	0.057	29	509
36	33.50	594	0.063	0.072	0.041	0.056	29	511
35	32.50	596	0.060	0.072	0.041	0.056	29	512
34	31.50	598	0.056	0.071	0.042	0.056	29	514
33	30.50	600	0.053	0.071	0.042	0.056	29	516
32	29.50	602	0.049	0.071	0.042	0.055	29	517
31	28.75	302	0.047	0.071	0.042	0.055	14	259
30	28.25	183	0.045	0.071	0.042	0.055	9	157
29	27.50	366	0.043	0.070	0.042	0.055	17	315
28	26.50	367	0.040	0.070	0.042	0.054	17	316
27	25.50	368	0.037	0.070	0.041	0.054	17	317
26	24.50	369	0.034	0.069	0.041	0.054	17	317
25	23.50	370	0.031	0.068	0.041	0.053	17	318
24	22.75	185	0.029	0.068	0.040	0.053	9	159
23	22.25	186	0.028	0.068	0.040	0.053	8	160
22	21.50	372	0.026	0.067	0.040	0.052	17	320
21	20.50	373	0.024	0.066	0.039	0.052	17	321
20	19.50	374	0.021	0.065	0.038	0.051	17	321
19	18.50	375	0.019	0.064	0.038	0.051	16	322
18	17.50	376	0.017	0.062	0.037	0.050	16	323
17	16.50	377	0.015	0.061	0.036	0.049	16	324
16	15.50	378	0.014	0.059	0.035	0.048	16	325
15	14.50	379	0.012	0.057	0.033	0.047	15	325
14	13.50	380	0.010	0.055	0.032	0.046	15	326
13	12.50	381	0.009	0.053	0.031	0.044	15	327
12	11.50	382	0.007	0.051	0.029	0.043	14	328
11	10.50	383	0.006	0.048	0.027	0.041	14	329
10	9.50	383	0.005	0.045	0.025	0.039	13	330
9	8.50	384	0.004	0.042	0.023	0.037	12	330
8	7.50	385	0.003	0.038	0.021	0.035	12	331

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7	6.50	386	0.002	0.034	0.019	0.032	11	332
6	5.50	387	0.002	0.030	0.016	0.029	10	333
5	4.50	322	0.001	0.025	0.014	0.025	7	277
4	3.50	323	0.001	0.021	0.011	0.021	6	278
3	2.50	324	0.000	0.015	0.008	0.016	4	279
2	1.50	325	0.000	0.009	0.005	0.010	3	279
1	0.50	326	0.000	0.003	0.002	0.004	1	280
DragonWave Horizon C	183.00	21	1.890	1.980	1.140	0.384	7	18
NextNet BTS-2500	183.00	105	1.890	1.980	1.140	0.384	35	90
Decibel DB844H90E-XY	183.00	84	1.890	1.980	1.140	0.384	28	72
Argus LLPX310R	183.00	86	1.890	1.980	1.140	0.384	29	74
DragonWave A-ANT-18G	183.00	54	1.890	1.980	1.140	0.384	18	47
Andrew 844G65VTZASX	183.00	48	1.890	1.980	1.140	0.384	16	41
Flat Platform w/ Han	183.00	2,000	1.890	1.980	1.140	0.384	665	1,719
RFS APXV18-206517S-C	171.00	79	1.650	0.943	0.740	0.230	16	68
Commscope WCS-	167.00	30	1.574	0.700	0.635	0.187	5	25
Powerwave Allgon LGP	167.00	42	1.574	0.700	0.635	0.187	7	36
Powerwave Allgon LGP	167.00	85	1.574	0.700	0.635	0.187	14	73
Raycap DC6-48-60-18-	167.00	40	1.574	0.700	0.635	0.187	6	34
Ericsson RRUS 11 (Ba	167.00	132	1.574	0.700	0.635	0.187	21	113
Ericsson RRUS 32 B2	167.00	159	1.574	0.700	0.635	0.187	26	137
Ericsson RRUS-32	167.00	231	1.574	0.700	0.635	0.187	37	198
Powerwave Allgon 777	167.00	105	1.574	0.700	0.635	0.187	17	90
CCI OPA-65R-LCUU-H4	167.00	171	1.574	0.700	0.635	0.187	28	147
Quintel QS66512-2	167.00	333	1.574	0.700	0.635	0.187	54	286
Flat Platform w/ Han	167.00	2,000	1.574	0.700	0.635	0.187	323	1,719
Andrew ETW200VS12UB	146.00	33	1.203	0.008	0.257	0.016	0	28
Andrew ETW190VS12UB	146.00	33	1.203	0.008	0.257	0.016	0	28
Andrew SBNHH-1D65A	146.00	123	1.203	0.008	0.257	0.016	2	105
Flat Light Sector Fr	146.00	1,200	1.203	0.008	0.257	0.016	17	1,031
Kathrein Scala Smart	145.00	10	1.187	-0.008	0.245	0.011	0	9
RFS FD9R6004/1C-3L	127.00	19	0.910	-0.122	0.091	-0.056	-1	16
Alcatel-Lucent RRH2X	127.00	138	0.910	-0.122	0.091	-0.056	-7	119
Alcatel-Lucent RRH2X	127.00	132	0.910	-0.122	0.091	-0.056	-6	113
Alcatel-Lucent RRH2x	127.00	132	0.910	-0.122	0.091	-0.056	-6	113
RFS DB-T1-6Z-8AB-0Z	127.00	44	0.910	-0.122	0.091	-0.056	-2	38
RFS DB-T1-6Z-8AB-0Z	127.00	44	0.910	-0.122	0.091	-0.056	-2	38
Andrew HBXX-6516DS-A	127.00	92	0.910	-0.122	0.091	-0.056	-4	79
Andrew LNX-4514DS-A1	127.00	89	0.910	-0.122	0.091	-0.056	-4	76
Antel BXA-80063/6CF	127.00	45	0.910	-0.122	0.091	-0.056	-2	38
Andrew HBXX-6517DS-A	127.00	129	0.910	-0.122	0.091	-0.056	-6	111
Flat Platform w/ Han	127.00	2,000	0.910	-0.122	0.091	-0.056	-96	1,719
Thales PCS VP/360/2	7.00	1	0.003	0.036	0.020	0.033	0	1
Stand-Off	7.00	75	0.003	0.036	0.020	0.033	2	64
		56,588	165.880	48.327	47.890	13.563	2,756	48,624

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Load Case (1.2 + 0.2Sds) * DL + E EMAM Seismic Equivalent Modal Analysis Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-69.81	-2.75	0.00	-339.83	0.00	339.83	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.071
1.00	-69.40	-2.75	0.00	-337.07	0.00	337.07	4,348.30	2,174.15	8,544.66	4,278.68	0.00	0.00	0.071
2.00	-69.00	-2.75	0.00	-334.32	0.00	334.32	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.01	0.071
3.00	-68.60	-2.75	0.00	-331.56	0.00	331.56	4,316.57	2,158.29	8,419.78	4,216.15	0.00	-0.01	0.071
4.00	-68.20	-2.75	0.00	-328.81	0.00	328.81	4,300.71	2,150.36	8,357.68	4,185.05	0.01	-0.01	0.071
5.00	-67.72	-2.74	0.00	-326.06	0.00	326.06	4,284.85	2,142.42	8,295.82	4,154.08	0.01	-0.02	0.071
6.00	-67.24	-2.74	0.00	-323.32	0.00	323.32	4,268.98	2,134.49	8,234.19	4,123.21	0.01	-0.02	0.070
7.00	-66.67	-2.73	0.00	-320.58	0.00	320.58	4,253.12	2,126.56	8,172.78	4,092.46	0.02	-0.02	0.070
8.00	-66.19	-2.72	0.00	-317.86	0.00	317.86	4,237.26	2,118.63	8,111.60	4,061.83	0.02	-0.03	0.070
9.00	-65.71	-2.71	0.00	-315.14	0.00	315.14	4,221.39	2,110.70	8,050.66	4,031.31	0.03	-0.03	0.070
10.00	-65.24	-2.70	0.00	-312.43	0.00	312.43	4,205.53	2,102.76	7,989.95	4,000.91	0.03	-0.03	0.070
11.00	-64.77	-2.69	0.00	-309.74	0.00	309.74	4,189.66	2,094.83	7,929.46	3,970.62	0.04	-0.04	0.070
12.00	-64.29	-2.68	0.00	-307.05	0.00	307.05	4,173.80	2,086.90	7,869.20	3,940.45	0.05	-0.04	0.069
13.00	-63.82	-2.66	0.00	-304.37	0.00	304.37	4,157.94	2,078.97	7,809.18	3,910.39	0.06	-0.04	0.069
14.00	-63.35	-2.65	0.00	-301.71	0.00	301.71	4,142.07	2,071.04	7,749.38	3,880.45	0.07	-0.05	0.069
15.00	-62.88	-2.64	0.00	-299.06	0.00	299.06	4,126.21	2,063.10	7,689.82	3,850.62	0.08	-0.05	0.069
16.00	-62.41	-2.63	0.00	-296.42	0.00	296.42	4,110.34	2,055.17	7,630.48	3,820.91	0.09	-0.05	0.069
17.00	-61.95	-2.61	0.00	-293.79	0.00	293.79	4,094.48	2,047.24	7,571.37	3,791.31	0.10	-0.06	0.068
18.00	-61.48	-2.60	0.00	-291.18	0.00	291.18	4,078.62	2,039.31	7,512.50	3,761.83	0.11	-0.06	0.068
19.00	-61.02	-2.59	0.00	-288.58	0.00	288.58	4,062.75	2,031.38	7,453.85	3,732.47	0.12	-0.06	0.068
20.00	-60.56	-2.57	0.00	-286.00	0.00	286.00	4,046.89	2,023.44	7,395.44	3,703.21	0.14	-0.07	0.068
21.00	-60.09	-2.56	0.00	-283.42	0.00	283.42	4,031.02	2,015.51	7,337.25	3,674.08	0.15	-0.07	0.068
22.00	-59.86	-2.55	0.00	-280.86	0.00	280.86	4,015.16	2,007.58	7,279.29	3,645.06	0.17	-0.07	0.067
22.50	-59.63	-2.55	0.00	-279.59	0.00	279.59	4,007.23	2,003.61	7,250.40	3,630.59	0.17	-0.07	0.067
22.50	-59.63	-2.55	0.00	-279.59	0.00	279.59	4,007.23	2,003.61	7,250.40	3,630.59	0.17	-0.07	0.067
23.00	-59.17	-2.53	0.00	-278.32	0.00	278.32	3,999.30	1,999.65	7,221.56	3,616.15	0.18	-0.08	0.067
24.00	-58.71	-2.52	0.00	-275.79	0.00	275.79	3,983.43	1,991.72	7,164.07	3,587.36	0.20	-0.08	0.067
25.00	-58.26	-2.50	0.00	-273.27	0.00	273.27	3,967.57	1,983.78	7,106.80	3,558.68	0.21	-0.08	0.067
26.00	-57.80	-2.49	0.00	-270.77	0.00	270.77	3,951.70	1,975.85	7,049.76	3,530.12	0.23	-0.08	0.067
27.00	-57.35	-2.47	0.00	-268.28	0.00	268.28	3,935.84	1,967.92	6,992.95	3,501.67	0.25	-0.09	0.066
28.00	-57.12	-2.47	0.00	-265.81	0.00	265.81	3,919.98	1,959.99	6,936.37	3,473.34	0.27	-0.09	0.066
28.50	-56.75	-2.45	0.00	-264.58	0.00	264.58	3,912.04	1,956.02	6,908.17	3,459.22	0.28	-0.09	0.066
29.00	-56.00	-2.42	0.00	-263.35	0.00	263.35	3,904.11	1,952.06	6,880.03	3,445.13	0.29	-0.10	0.065
30.00	-55.25	-2.40	0.00	-260.93	0.00	260.93	3,888.25	1,944.12	6,823.91	3,417.03	0.31	-0.10	0.065
31.00	-54.51	-2.37	0.00	-258.53	0.00	258.53	3,872.38	1,936.19	6,768.02	3,389.04	0.33	-0.10	0.065
32.00	-53.77	-2.34	0.00	-256.16	0.00	256.16	3,856.52	1,928.26	6,712.36	3,361.17	0.35	-0.10	0.065
33.00	-53.03	-2.32	0.00	-253.82	0.00	253.82	3,840.66	1,920.33	6,656.93	3,333.41	0.37	-0.11	0.064
34.00	-52.30	-2.29	0.00	-251.51	0.00	251.51	3,824.79	1,912.40	6,601.73	3,305.77	0.40	-0.11	0.064
35.00	-51.85	-2.27	0.00	-249.22	0.00	249.22	3,899.62	1,949.81	6,864.12	3,437.16	0.42	-0.11	0.062
36.00	-51.40	-2.26	0.00	-246.95	0.00	246.95	3,883.76	1,941.88	6,808.07	3,409.09	0.44	-0.12	0.062
37.00	-50.95	-2.24	0.00	-244.69	0.00	244.69	3,867.90	1,933.95	6,752.24	3,381.14	0.47	-0.12	0.062
38.00	-50.50	-2.22	0.00	-242.45	0.00	242.45	3,852.03	1,926.02	6,696.65	3,353.30	0.49	-0.12	0.062
39.00	-50.05	-2.21	0.00	-240.23	0.00	240.23	3,836.17	1,918.08	6,641.29	3,325.58	0.52	-0.13	0.062
40.00	-49.60	-2.19	0.00	-238.02	0.00	238.02	3,820.30	1,910.15	6,586.15	3,297.97	0.55	-0.13	0.061
41.00	-49.16	-2.17	0.00	-235.83	0.00	235.83	3,804.44	1,902.22	6,531.25	3,270.48	0.58	-0.13	0.061
42.00	-48.71	-2.16	0.00	-233.65	0.00	233.65	3,788.58	1,894.29	6,476.57	3,243.10	0.60	-0.14	0.061
43.00	-48.27	-2.14	0.00	-231.49	0.00	231.49	3,772.71	1,886.36	6,422.13	3,215.84	0.63	-0.14	0.061
43.00	-48.27	-2.14	0.00	-231.49	0.00	231.49	3,772.71	1,886.36	6,422.13	3,215.84	0.63	-0.14	0.061
44.00	-47.83	-2.13	0.00	-229.35	0.00	229.35	3,756.85	1,878.42	6,367.91	3,188.69	0.66	-0.14	0.061
45.00	-47.39	-2.11	0.00	-227.23	0.00	227.23	3,740.98	1,870.49	6,313.93	3,161.66	0.69	-0.15	0.060
46.00	-46.95	-2.09	0.00	-225.12	0.00	225.12	3,725.12	1,862.56	6,260.17	3,134.74	0.73	-0.15	0.060
47.00	-46.51	-2.08	0.00	-223.03	0.00	223.03	3,709.26	1,854.63	6,206.65	3,107.94	0.76	-0.15	0.060
48.00	-46.08	-2.06	0.00	-220.95	0.00	220.95	3,693.39	1,846.70	6,153.35	3,081.25	0.79	-0.16	0.060
49.00	-45.64	-2.04	0.00	-218.89	0.00	218.89	3,677.53	1,838.76	6,100.29	3,054.68	0.82	-0.16	0.060
50.00	-45.21	-2.02	0.00	-216.85	0.00	216.85	3,661.66	1,830.83	6,047.45	3,028.22	0.86	-0.16	0.060
51.00	-44.77	-2.01	0.00	-214.83	0.00	214.83	3,645.80	1,822.90	5,994.84	3,001.88	0.89	-0.17	0.059

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52.00	-44.34	-1.99	0.00	-212.82	0.00	212.82	3,629.94	1,814.97	5,942.47	2,975.65	0.93	-0.17	0.059
53.00	-43.91	-1.97	0.00	-210.83	0.00	210.83	3,614.07	1,807.04	5,890.32	2,949.54	0.96	-0.17	0.059
54.00	-43.48	-1.96	0.00	-208.86	0.00	208.86	3,598.21	1,799.10	5,838.41	2,923.54	1.00	-0.18	0.059
55.00	-43.05	-1.94	0.00	-206.90	0.00	206.90	3,582.34	1,791.17	5,786.72	2,897.66	1.04	-0.18	0.059
56.00	-42.62	-1.92	0.00	-204.96	0.00	204.96	3,566.48	1,783.24	5,735.26	2,871.89	1.07	-0.18	0.059
57.00	-42.20	-1.91	0.00	-203.04	0.00	203.04	3,550.62	1,775.31	5,684.03	2,846.24	1.11	-0.19	0.058
58.00	-41.57	-1.88	0.00	-201.13	0.00	201.13	3,534.75	1,767.38	5,633.04	2,820.71	1.15	-0.19	0.058
59.00	-40.95	-1.85	0.00	-199.25	0.00	199.25	3,518.89	1,759.44	5,582.27	2,795.28	1.19	-0.19	0.057
60.00	-40.33	-1.83	0.00	-197.40	0.00	197.40	3,503.02	1,751.51	5,531.73	2,769.98	1.23	-0.20	0.057
61.00	-39.71	-1.80	0.00	-195.58	0.00	195.58	3,487.16	1,743.58	5,481.43	2,744.79	1.27	-0.20	0.057
62.00	-39.09	-1.77	0.00	-193.78	0.00	193.78	3,471.30	1,735.65	5,431.35	2,719.71	1.32	-0.20	0.057
63.00	-38.78	-1.76	0.00	-192.00	0.00	192.00	3,455.43	1,727.72	5,381.50	2,694.75	1.36	-0.21	0.057
63.50	-38.60	-1.75	0.00	-191.12	0.00	191.12	3,158.12	1,579.06	5,037.43	2,522.46	1.38	-0.21	0.056
64.00	-38.25	-1.74	0.00	-190.24	0.00	190.24	3,152.80	1,576.40	5,017.53	2,512.49	1.40	-0.21	0.056
65.00	-37.89	-1.73	0.00	-188.50	0.00	188.50	3,142.13	1,571.07	4,977.80	2,492.60	1.45	-0.21	0.056
66.00	-37.53	-1.71	0.00	-186.78	0.00	186.78	3,131.44	1,565.72	4,938.17	2,472.75	1.49	-0.22	0.055
67.00	-37.17	-1.70	0.00	-185.06	0.00	185.06	3,120.71	1,560.35	4,898.65	2,452.96	1.54	-0.22	0.055
68.00	-36.82	-1.69	0.00	-183.36	0.00	183.36	3,109.92	1,554.96	4,859.19	2,433.21	1.59	-0.22	0.055
69.00	-36.46	-1.67	0.00	-181.68	0.00	181.68	3,095.65	1,547.82	4,814.46	2,410.81	1.63	-0.23	0.055
70.00	-36.11	-1.66	0.00	-180.00	0.00	180.00	3,081.37	1,540.68	4,769.94	2,388.51	1.68	-0.23	0.055
71.00	-35.76	-1.65	0.00	-178.34	0.00	178.34	3,067.09	1,533.55	4,725.62	2,366.32	1.73	-0.24	0.055
72.00	-35.40	-1.64	0.00	-176.70	0.00	176.70	3,052.81	1,526.41	4,681.51	2,344.23	1.78	-0.24	0.054
73.00	-35.05	-1.62	0.00	-175.06	0.00	175.06	3,038.54	1,519.27	4,637.61	2,322.25	1.83	-0.24	0.054
74.00	-34.70	-1.61	0.00	-173.44	0.00	173.44	3,024.26	1,512.13	4,593.91	2,300.37	1.88	-0.25	0.054
75.00	-34.35	-1.60	0.00	-171.83	0.00	171.83	3,009.98	1,504.99	4,550.42	2,278.59	1.93	-0.25	0.054
76.00	-34.00	-1.59	0.00	-170.23	0.00	170.23	2,995.70	1,497.85	4,507.14	2,256.92	1.99	-0.26	0.054
77.00	-33.66	-1.58	0.00	-168.64	0.00	168.64	2,981.43	1,490.71	4,464.06	2,235.35	2.04	-0.26	0.054
78.00	-33.31	-1.57	0.00	-167.06	0.00	167.06	2,967.15	1,483.57	4,421.19	2,213.88	2.10	-0.26	0.053
79.00	-32.96	-1.56	0.00	-165.49	0.00	165.49	2,952.87	1,476.44	4,378.53	2,192.52	2.15	-0.27	0.053
80.00	-32.62	-1.55	0.00	-163.94	0.00	163.94	2,938.59	1,469.30	4,336.07	2,171.26	2.21	-0.27	0.053
81.00	-32.28	-1.54	0.00	-162.39	0.00	162.39	2,924.32	1,462.16	4,293.83	2,150.10	2.27	-0.28	0.053
82.00	-31.93	-1.53	0.00	-160.85	0.00	160.85	2,910.04	1,455.02	4,251.78	2,129.05	2.32	-0.28	0.053
83.00	-31.59	-1.52	0.00	-159.32	0.00	159.32	2,895.76	1,447.88	4,209.95	2,108.10	2.38	-0.28	0.053
84.00	-31.25	-1.52	0.00	-157.79	0.00	157.79	2,881.48	1,440.74	4,168.32	2,087.26	2.44	-0.29	0.052
85.00	-30.91	-1.51	0.00	-156.28	0.00	156.28	2,867.21	1,433.60	4,126.90	2,066.52	2.50	-0.29	0.052
86.00	-30.57	-1.51	0.00	-154.77	0.00	154.77	2,852.93	1,426.46	4,085.69	2,045.88	2.57	-0.30	0.052
87.00	-30.23	-1.50	0.00	-153.26	0.00	153.26	2,838.65	1,419.33	4,044.68	2,025.35	2.63	-0.30	0.052
88.00	-29.74	-1.49	0.00	-151.76	0.00	151.76	2,824.37	1,412.19	4,003.88	2,004.91	2.69	-0.30	0.052
89.00	-29.26	-1.49	0.00	-150.27	0.00	150.27	2,810.09	1,405.05	3,963.28	1,984.59	2.76	-0.31	0.051
90.00	-28.78	-1.48	0.00	-148.78	0.00	148.78	2,795.82	1,397.91	3,922.90	1,964.36	2.82	-0.31	0.051
91.00	-28.30	-1.48	0.00	-147.30	0.00	147.30	2,781.54	1,390.77	3,882.72	1,944.24	2.89	-0.32	0.051
92.00	-27.82	-1.48	0.00	-145.82	0.00	145.82	2,767.26	1,383.63	3,842.74	1,924.23	2.95	-0.32	0.050
93.00	-27.51	-1.48	0.00	-144.34	0.00	144.34	2,292.76	1,146.38	3,238.31	1,621.56	3.02	-0.32	0.056
94.00	-27.20	-1.48	0.00	-142.86	0.00	142.86	2,284.25	1,142.13	3,209.75	1,607.26	3.09	-0.33	0.056
95.00	-26.89	-1.48	0.00	-141.38	0.00	141.38	2,275.71	1,137.86	3,181.27	1,593.00	3.16	-0.33	0.055
96.00	-26.59	-1.48	0.00	-139.90	0.00	139.90	2,267.14	1,133.57	3,152.86	1,578.78	3.23	-0.34	0.055
97.00	-26.28	-1.49	0.00	-138.42	0.00	138.42	2,258.54	1,129.27	3,124.54	1,564.59	3.30	-0.34	0.055
98.00	-25.98	-1.49	0.00	-136.94	0.00	136.94	2,249.90	1,124.95	3,096.30	1,550.45	3.37	-0.35	0.055
99.00	-25.67	-1.49	0.00	-135.45	0.00	135.45	2,241.24	1,120.62	3,068.14	1,536.35	3.44	-0.35	0.054
100.00	-25.37	-1.50	0.00	-133.95	0.00	133.95	2,232.54	1,116.27	3,040.06	1,522.29	3.52	-0.35	0.054
101.00	-25.07	-1.51	0.00	-132.45	0.00	132.45	2,223.81	1,111.90	3,012.06	1,508.27	3.59	-0.36	0.054
102.00	-24.77	-1.51	0.00	-130.95	0.00	130.95	2,215.04	1,107.52	2,984.14	1,494.29	3.67	-0.36	0.053
103.00	-24.46	-1.52	0.00	-129.43	0.00	129.43	2,206.25	1,103.12	2,956.31	1,480.35	3.75	-0.37	0.053
104.00	-24.16	-1.53	0.00	-127.91	0.00	127.91	2,197.42	1,098.71	2,928.57	1,466.46	3.82	-0.37	0.053
105.00	-23.95	-1.54	0.00	-126.38	0.00	126.38	2,188.56	1,094.28	2,900.91	1,452.61	3.90	-0.38	0.052
105.00	-23.95	-1.54	0.00	-126.38	0.00	126.38	2,188.56	1,094.28	2,900.91	1,452.61	3.90	-0.38	0.098
106.00	-23.73	-1.54	0.00	-124.85	0.00	124.85	2,179.67	1,089.83	2,873.33	1,438.80	3.98	-0.38	0.098
107.00	-23.52	-1.55	0.00	-123.30	0.00	123.30	2,170.74	1,085.37	2,845.85	1,425.04	4.06	-0.39	0.097
108.00	-23.30	-1.56	0.00	-121.75	0.00	121.75	2,161.78	1,080.89	2,818.44	1,411.32	4.14	-0.40	0.097
109.00	-23.09	-1.57	0.00	-120.19	0.00	120.19	2,150.55	1,075.28	2,788.22	1,396.18	4.23	-0.41	0.097
110.00	-22.87	-1.58	0.00	-118.62	0.00	118.62	2,138.65	1,069.33	2,757.31	1,380.70	4.31	-0.42	0.097
111.00	-22.66	-1.59	0.00	-117.04	0.00	117.04	2,126.76	1,063.38	2,726.56	1,365.31	4.40	-0.42	0.096
112.00	-22.45	-1.60	0.00	-115.45	0.00	115.45	2,114.86	1,057.43	2,695.99	1,350.00	4.49	-0.43	0.096
113.00	-22.24	-1.61	0.00	-113.84	0.00	113.84	2,102.96	1,051.48	2,665.59	1,334.78	4.58	-0.44	0.096

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114.00	-22.03	-1.62	0.00	-112.23	0.00	112.23	2,091.06	1,045.53	2,635.36	1,319.64	4.68	-0.45	0.096
115.00	-21.82	-1.63	0.00	-110.61	0.00	110.61	2,079.16	1,039.58	2,605.31	1,304.59	4.77	-0.46	0.095
116.00	-21.71	-1.64	0.00	-108.98	0.00	108.98	2,067.27	1,033.63	2,575.43	1,289.63	4.87	-0.47	0.095
116.50	-21.56	-1.65	0.00	-108.16	0.00	108.16	2,061.32	1,030.66	2,560.55	1,282.18	4.92	-0.47	0.095
117.00	-21.25	-1.66	0.00	-107.33	0.00	107.33	2,055.37	1,027.68	2,545.72	1,274.75	4.97	-0.48	0.095
118.00	-20.94	-1.67	0.00	-105.67	0.00	105.67	2,043.47	1,021.73	2,516.18	1,259.96	5.07	-0.48	0.094
119.00	-20.63	-1.69	0.00	-104.00	0.00	104.00	2,031.57	1,015.79	2,486.81	1,245.26	5.17	-0.49	0.094
120.00	-20.32	-1.70	0.00	-102.31	0.00	102.31	2,019.67	1,009.84	2,457.62	1,230.64	5.28	-0.50	0.093
121.00	-20.14	-1.71	0.00	-100.61	0.00	100.61	1,562.89	781.45	1,930.84	966.86	5.38	-0.51	0.117
122.00	-19.96	-1.72	0.00	-98.90	0.00	98.90	1,556.55	778.28	1,911.74	957.29	5.49	-0.52	0.116
123.00	-19.78	-1.73	0.00	-97.18	0.00	97.18	1,550.18	775.09	1,892.68	947.75	5.60	-0.53	0.115
124.00	-19.60	-1.74	0.00	-95.44	0.00	95.44	1,543.77	771.89	1,873.68	938.23	5.71	-0.54	0.114
125.00	-19.42	-1.75	0.00	-93.71	0.00	93.71	1,537.34	768.67	1,854.73	928.74	5.83	-0.55	0.114
126.00	-19.24	-1.76	0.00	-91.96	0.00	91.96	1,530.87	765.43	1,835.84	919.28	5.94	-0.56	0.113
127.00	-15.52	-1.87	0.00	-90.20	0.00	90.20	1,524.37	762.18	1,817.00	909.85	6.06	-0.57	0.109
128.00	-15.36	-1.88	0.00	-88.33	0.00	88.33	1,517.84	758.92	1,798.22	900.45	6.18	-0.58	0.108
129.00	-15.20	-1.88	0.00	-86.46	0.00	86.46	1,511.27	755.64	1,779.50	891.07	6.31	-0.59	0.107
130.00	-15.04	-1.89	0.00	-84.57	0.00	84.57	1,504.67	752.34	1,760.83	881.72	6.43	-0.60	0.106
131.00	-14.88	-1.89	0.00	-82.69	0.00	82.69	1,498.04	749.02	1,742.22	872.40	6.56	-0.61	0.105
132.00	-14.73	-1.90	0.00	-80.79	0.00	80.79	1,491.38	745.69	1,723.67	863.12	6.69	-0.62	0.103
133.00	-14.57	-1.91	0.00	-78.89	0.00	78.89	1,484.69	742.34	1,705.18	853.86	6.82	-0.63	0.102
134.00	-14.41	-1.91	0.00	-76.99	0.00	76.99	1,477.96	738.98	1,686.75	844.63	6.95	-0.64	0.101
135.00	-14.26	-1.91	0.00	-75.08	0.00	75.08	1,471.20	735.60	1,668.38	835.43	7.09	-0.65	0.100
136.00	-14.10	-1.92	0.00	-73.16	0.00	73.16	1,464.41	732.21	1,650.07	826.26	7.23	-0.66	0.098
137.00	-13.94	-1.92	0.00	-71.24	0.00	71.24	1,457.59	728.80	1,631.83	817.13	7.37	-0.67	0.097
138.00	-13.79	-1.92	0.00	-69.32	0.00	69.32	1,450.74	725.37	1,613.64	808.02	7.51	-0.68	0.095
139.00	-13.64	-1.93	0.00	-67.40	0.00	67.40	1,443.85	721.92	1,595.53	798.95	7.65	-0.69	0.094
140.00	-13.48	-1.93	0.00	-65.47	0.00	65.47	1,436.93	718.47	1,577.47	789.91	7.80	-0.70	0.092
141.00	-13.33	-1.93	0.00	-63.54	0.00	63.54	1,429.98	714.99	1,559.48	780.90	7.95	-0.71	0.091
142.00	-13.18	-1.93	0.00	-61.61	0.00	61.61	1,423.00	711.50	1,541.56	771.93	8.10	-0.72	0.089
143.00	-13.03	-1.93	0.00	-59.68	0.00	59.68	1,415.98	707.99	1,523.71	762.99	8.25	-0.73	0.087
144.00	-12.88	-1.93	0.00	-57.75	0.00	57.75	1,408.93	704.47	1,505.92	754.08	8.41	-0.74	0.086
145.00	-12.71	-1.93	0.00	-55.82	0.00	55.82	1,401.85	700.93	1,488.20	745.20	8.56	-0.75	0.084
146.00	-10.86	-1.88	0.00	-53.90	0.00	53.90	1,394.74	697.37	1,470.54	736.36	8.72	-0.76	0.081
147.00	-10.73	-1.88	0.00	-52.01	0.00	52.01	1,387.60	693.80	1,452.96	727.56	8.88	-0.77	0.079
148.00	-10.60	-1.88	0.00	-50.13	0.00	50.13	1,379.83	689.92	1,434.84	718.48	9.04	-0.78	0.077
149.00	-10.40	-1.87	0.00	-48.25	0.00	48.25	1,370.32	685.16	1,415.01	708.56	9.20	-0.78	0.076
150.00	-10.21	-1.87	0.00	-46.38	0.00	46.38	1,360.80	680.40	1,395.33	698.70	9.37	-0.79	0.074
151.00	-10.02	-1.86	0.00	-44.52	0.00	44.52	1,351.28	675.64	1,375.78	688.91	9.54	-0.80	0.072
152.00	-9.93	-1.85	0.00	-42.66	0.00	42.66	1,341.76	670.88	1,356.37	679.19	9.71	-0.81	0.070
152.50	-9.87	-1.85	0.00	-41.73	0.00	41.73	942.35	471.17	968.66	485.05	9.79	-0.81	0.097
153.00	-9.76	-1.85	0.00	-40.81	0.00	40.81	940.20	470.10	963.05	482.24	9.88	-0.82	0.095
154.00	-9.66	-1.84	0.00	-38.96	0.00	38.96	935.87	467.94	951.84	476.63	10.05	-0.83	0.092
155.00	-9.55	-1.83	0.00	-37.12	0.00	37.12	931.51	465.76	940.66	471.03	10.22	-0.84	0.089
156.00	-9.44	-1.83	0.00	-35.29	0.00	35.29	927.12	463.56	929.51	465.45	10.40	-0.85	0.086
157.00	-9.34	-1.82	0.00	-33.46	0.00	33.46	922.70	461.35	918.40	459.88	10.58	-0.85	0.083
158.00	-9.23	-1.81	0.00	-31.64	0.00	31.64	918.25	459.12	907.31	454.33	10.76	-0.86	0.080
159.00	-9.13	-1.80	0.00	-29.83	0.00	29.83	913.76	456.88	896.26	448.80	10.94	-0.87	0.076
160.00	-9.02	-1.79	0.00	-28.03	0.00	28.03	909.24	454.62	885.24	443.28	11.12	-0.88	0.073
161.00	-8.92	-1.78	0.00	-26.23	0.00	26.23	904.69	452.35	874.26	437.78	11.31	-0.89	0.070
162.00	-8.81	-1.77	0.00	-24.45	0.00	24.45	900.11	450.06	863.31	432.30	11.49	-0.89	0.066
163.00	-8.71	-1.76	0.00	-22.68	0.00	22.68	895.50	447.75	852.40	426.83	11.68	-0.90	0.063
164.00	-8.61	-1.75	0.00	-20.91	0.00	20.91	890.85	445.42	841.52	421.39	11.87	-0.91	0.059
165.00	-8.50	-1.74	0.00	-19.16	0.00	19.16	886.17	443.09	830.68	415.96	12.06	-0.91	0.056
166.00	-8.40	-1.72	0.00	-17.43	0.00	17.43	881.46	440.73	819.88	410.55	12.25	-0.92	0.052
167.00	-4.20	-1.11	0.00	-15.70	0.00	15.70	876.72	438.36	809.12	405.16	12.45	-0.93	0.044
168.00	-4.11	-1.09	0.00	-14.60	0.00	14.60	871.94	435.97	798.40	399.79	12.64	-0.93	0.041
169.00	-4.03	-1.08	0.00	-13.50	0.00	13.50	867.13	433.57	787.71	394.44	12.84	-0.94	0.039
170.00	-3.95	-1.07	0.00	-12.42	0.00	12.42	862.29	431.15	777.07	389.11	13.03	-0.94	0.037
171.00	-3.77	-1.04	0.00	-11.36	0.00	11.36	857.42	428.71	766.47	383.80	13.23	-0.94	0.034
172.00	-3.70	-1.02	0.00	-10.32	0.00	10.32	852.52	426.26	755.91	378.52	13.43	-0.95	0.032
173.00	-3.62	-1.01	0.00	-9.30	0.00	9.30	847.58	423.79	745.39	373.25	13.63	-0.95	0.029
174.00	-3.55	-0.99	0.00	-8.30	0.00	8.30	842.61	421.31	734.92	368.01	13.83	-0.96	0.027
175.00	-3.47	-0.97	0.00	-7.31	0.00	7.31	837.61	418.81	724.49	362.78	14.03	-0.96	0.024

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176.00	-3.40	-0.96	0.00	-6.33	0.00	6.33	832.58	416.29	714.11	357.59	14.23	-0.96	0.022
177.00	-3.32	-0.94	0.00	-5.37	0.00	5.37	827.51	413.76	703.77	352.41	14.43	-0.96	0.019
178.00	-3.25	-0.92	0.00	-4.43	0.00	4.43	822.42	411.21	693.48	347.26	14.64	-0.97	0.017
179.00	-3.18	-0.91	0.00	-3.51	0.00	3.51	817.29	408.64	683.23	342.12	14.84	-0.97	0.014
180.00	-3.11	-0.89	0.00	-2.60	0.00	2.60	812.13	406.06	673.04	337.02	15.04	-0.97	0.012
181.00	-3.03	-0.87	0.00	-1.71	0.00	1.71	806.93	403.47	662.89	331.94	15.24	-0.97	0.009
182.00	-2.96	-0.85	0.00	-0.85	0.00	0.85	801.71	400.85	652.79	326.88	15.45	-0.97	0.006
183.00	0.00	-0.80	0.00	0.00	0.00	0.00	796.45	398.23	642.74	321.85	15.65	-0.97	0.000

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Load Case (0.9 - 0.2Sds) * DL + E EMAM Seismic (Reduced DL) Equivalent Modal Analysis Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-48.34	-2.75	0.00	-332.42	0.00	332.42	4,364.17	2,182.08	8,607.44	4,310.12	0.00	0.00	0.066
1.00	-48.06	-2.75	0.00	-329.66	0.00	329.66	4,348.30	2,174.15	8,544.66	4,278.68	0.00	0.00	0.066
2.00	-47.78	-2.75	0.00	-326.91	0.00	326.91	4,332.44	2,166.22	8,482.10	4,247.36	0.00	-0.01	0.066
3.00	-47.51	-2.75	0.00	-324.16	0.00	324.16	4,316.57	2,158.29	8,419.78	4,216.15	0.00	-0.01	0.066
4.00	-47.23	-2.74	0.00	-321.41	0.00	321.41	4,300.71	2,150.36	8,357.68	4,185.05	0.01	-0.01	0.066
5.00	-46.90	-2.74	0.00	-318.67	0.00	318.67	4,284.85	2,142.42	8,295.82	4,154.08	0.01	-0.02	0.065
6.00	-46.56	-2.73	0.00	-315.93	0.00	315.93	4,268.98	2,134.49	8,234.19	4,123.21	0.01	-0.02	0.065
7.00	-46.17	-2.72	0.00	-313.20	0.00	313.20	4,253.12	2,126.56	8,172.78	4,092.46	0.02	-0.02	0.065
8.00	-45.84	-2.71	0.00	-310.49	0.00	310.49	4,237.26	2,118.63	8,111.60	4,061.83	0.02	-0.03	0.065
9.00	-45.51	-2.70	0.00	-307.78	0.00	307.78	4,221.39	2,110.70	8,050.66	4,031.31	0.03	-0.03	0.065
10.00	-45.18	-2.69	0.00	-305.08	0.00	305.08	4,205.53	2,102.76	7,989.95	4,000.91	0.03	-0.03	0.065
11.00	-44.85	-2.67	0.00	-302.40	0.00	302.40	4,189.66	2,094.83	7,929.46	3,970.62	0.04	-0.03	0.064
12.00	-44.52	-2.66	0.00	-299.72	0.00	299.72	4,173.80	2,086.90	7,869.20	3,940.45	0.05	-0.04	0.064
13.00	-44.20	-2.65	0.00	-297.06	0.00	297.06	4,157.94	2,078.97	7,809.18	3,910.39	0.06	-0.04	0.064
14.00	-43.87	-2.64	0.00	-294.41	0.00	294.41	4,142.07	2,071.04	7,749.38	3,880.45	0.07	-0.04	0.064
15.00	-43.55	-2.62	0.00	-291.78	0.00	291.78	4,126.21	2,063.10	7,689.82	3,850.62	0.07	-0.05	0.064
16.00	-43.22	-2.61	0.00	-289.16	0.00	289.16	4,110.34	2,055.17	7,630.48	3,820.91	0.09	-0.05	0.064
17.00	-42.90	-2.59	0.00	-286.55	0.00	286.55	4,094.48	2,047.24	7,571.37	3,791.31	0.10	-0.05	0.063
18.00	-42.58	-2.58	0.00	-283.96	0.00	283.96	4,078.62	2,039.31	7,512.50	3,761.83	0.11	-0.06	0.063
19.00	-42.26	-2.56	0.00	-281.38	0.00	281.38	4,062.75	2,031.38	7,453.85	3,732.47	0.12	-0.06	0.063
20.00	-41.94	-2.55	0.00	-278.81	0.00	278.81	4,046.89	2,023.44	7,395.44	3,703.21	0.13	-0.06	0.063
21.00	-41.62	-2.53	0.00	-276.26	0.00	276.26	4,031.02	2,015.51	7,337.25	3,674.08	0.15	-0.07	0.063
22.00	-41.46	-2.53	0.00	-273.73	0.00	273.73	4,015.16	2,007.58	7,279.29	3,645.06	0.16	-0.07	0.062
22.50	-41.30	-2.52	0.00	-272.46	0.00	272.46	4,007.23	2,003.61	7,250.40	3,630.59	0.17	-0.07	0.062
22.50	-41.30	-2.52	0.00	-272.46	0.00	272.46	4,007.23	2,003.61	7,250.40	3,630.59	0.17	-0.07	0.062
23.00	-40.98	-2.50	0.00	-271.20	0.00	271.20	3,999.30	1,999.65	7,221.56	3,616.15	0.18	-0.07	0.062
24.00	-40.66	-2.49	0.00	-268.70	0.00	268.70	3,983.43	1,991.72	7,164.07	3,587.36	0.19	-0.08	0.062
25.00	-40.34	-2.47	0.00	-266.21	0.00	266.21	3,967.57	1,983.78	7,106.80	3,558.68	0.21	-0.08	0.062
26.00	-40.03	-2.46	0.00	-263.74	0.00	263.74	3,951.70	1,975.85	7,049.76	3,530.12	0.23	-0.08	0.062
27.00	-39.71	-2.44	0.00	-261.28	0.00	261.28	3,935.84	1,967.92	6,992.95	3,501.67	0.24	-0.09	0.062
28.00	-39.56	-2.44	0.00	-258.84	0.00	258.84	3,919.98	1,959.99	6,936.37	3,473.34	0.26	-0.09	0.061
28.50	-39.30	-2.42	0.00	-257.62	0.00	257.62	3,912.04	1,956.02	6,908.17	3,459.22	0.27	-0.09	0.061
29.00	-38.78	-2.39	0.00	-256.41	0.00	256.41	3,904.11	1,952.06	6,880.03	3,445.13	0.28	-0.09	0.060
30.00	-38.26	-2.37	0.00	-254.01	0.00	254.01	3,888.25	1,944.12	6,823.91	3,417.03	0.30	-0.10	0.060
31.00	-37.75	-2.34	0.00	-251.65	0.00	251.65	3,872.38	1,936.19	6,768.02	3,389.04	0.32	-0.10	0.060
32.00	-37.24	-2.31	0.00	-249.31	0.00	249.31	3,856.52	1,928.26	6,712.36	3,361.17	0.34	-0.10	0.060
33.00	-36.73	-2.28	0.00	-247.00	0.00	247.00	3,840.66	1,920.33	6,656.93	3,333.41	0.36	-0.11	0.060
34.00	-36.22	-2.25	0.00	-244.72	0.00	244.72	3,824.79	1,912.40	6,601.73	3,305.77	0.39	-0.11	0.059
35.00	-35.90	-2.24	0.00	-242.46	0.00	242.46	3,899.62	1,949.81	6,864.12	3,437.16	0.41	-0.11	0.058
36.00	-35.59	-2.22	0.00	-240.22	0.00	240.22	3,883.76	1,941.88	6,808.07	3,409.09	0.43	-0.12	0.058
37.00	-35.28	-2.20	0.00	-238.00	0.00	238.00	3,867.90	1,933.95	6,752.24	3,381.14	0.46	-0.12	0.057
38.00	-34.97	-2.19	0.00	-235.80	0.00	235.80	3,852.03	1,926.02	6,696.65	3,353.30	0.48	-0.12	0.057
39.00	-34.66	-2.17	0.00	-233.61	0.00	233.61	3,836.17	1,918.08	6,641.29	3,325.58	0.51	-0.12	0.057
40.00	-34.35	-2.15	0.00	-231.44	0.00	231.44	3,820.30	1,910.15	6,586.15	3,297.97	0.54	-0.13	0.057
41.00	-34.04	-2.14	0.00	-229.28	0.00	229.28	3,804.44	1,902.22	6,531.25	3,270.48	0.56	-0.13	0.057
42.00	-33.73	-2.12	0.00	-227.15	0.00	227.15	3,788.58	1,894.29	6,476.57	3,243.10	0.59	-0.13	0.057
43.00	-33.43	-2.10	0.00	-225.03	0.00	225.03	3,772.71	1,886.36	6,422.13	3,215.84	0.62	-0.14	0.056
43.00	-33.43	-2.10	0.00	-225.03	0.00	225.03	3,772.71	1,886.36	6,422.13	3,215.84	0.62	-0.14	0.056
44.00	-33.12	-2.09	0.00	-222.92	0.00	222.92	3,756.85	1,878.42	6,367.91	3,188.69	0.65	-0.14	0.056
45.00	-32.82	-2.07	0.00	-220.84	0.00	220.84	3,740.98	1,870.49	6,313.93	3,161.66	0.68	-0.14	0.056
46.00	-32.51	-2.05	0.00	-218.77	0.00	218.77	3,725.12	1,862.56	6,260.17	3,134.74	0.71	-0.15	0.056
47.00	-32.21	-2.03	0.00	-216.72	0.00	216.72	3,709.26	1,854.63	6,206.65	3,107.94	0.74	-0.15	0.056
48.00	-31.91	-2.02	0.00	-214.68	0.00	214.68	3,693.39	1,846.70	6,153.35	3,081.25	0.77	-0.15	0.056
49.00	-31.61	-2.00	0.00	-212.66	0.00	212.66	3,677.53	1,838.76	6,100.29	3,054.68	0.80	-0.16	0.055
50.00	-31.30	-1.98	0.00	-210.66	0.00	210.66	3,661.66	1,830.83	6,047.45	3,028.22	0.84	-0.16	0.055
51.00	-31.00	-1.97	0.00	-208.68	0.00	208.68	3,645.80	1,822.90	5,994.84	3,001.88	0.87	-0.16	0.055

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52.00	-30.71	-1.95	0.00	-206.72	0.00	206.72	3,629.94	1,814.97	5,942.47	2,975.65	0.90	-0.17	0.055
53.00	-30.41	-1.93	0.00	-204.77	0.00	204.77	3,614.07	1,807.04	5,890.32	2,949.54	0.94	-0.17	0.055
54.00	-30.11	-1.91	0.00	-202.84	0.00	202.84	3,598.21	1,799.10	5,838.41	2,923.54	0.97	-0.17	0.055
55.00	-29.81	-1.90	0.00	-200.93	0.00	200.93	3,582.34	1,791.17	5,786.72	2,897.66	1.01	-0.17	0.054
56.00	-29.52	-1.88	0.00	-199.03	0.00	199.03	3,566.48	1,783.24	5,735.26	2,871.89	1.05	-0.18	0.054
57.00	-29.22	-1.86	0.00	-197.15	0.00	197.15	3,550.62	1,775.31	5,684.03	2,846.24	1.09	-0.18	0.054
58.00	-28.79	-1.83	0.00	-195.29	0.00	195.29	3,534.75	1,767.38	5,633.04	2,820.71	1.12	-0.18	0.054
59.00	-28.36	-1.81	0.00	-193.46	0.00	193.46	3,518.89	1,759.44	5,582.27	2,795.28	1.16	-0.19	0.053
60.00	-27.93	-1.78	0.00	-191.65	0.00	191.65	3,503.02	1,751.51	5,531.73	2,769.98	1.20	-0.19	0.053
61.00	-27.50	-1.76	0.00	-189.87	0.00	189.87	3,487.16	1,743.58	5,481.43	2,744.79	1.24	-0.19	0.053
62.00	-27.07	-1.73	0.00	-188.11	0.00	188.11	3,471.30	1,735.65	5,431.35	2,719.71	1.28	-0.20	0.053
63.00	-26.86	-1.72	0.00	-186.38	0.00	186.38	3,455.43	1,727.72	5,381.50	2,694.75	1.33	-0.20	0.053
63.50	-26.73	-1.71	0.00	-185.53	0.00	185.53	3,158.12	1,579.06	5,037.43	2,522.46	1.35	-0.20	0.052
64.00	-26.48	-1.69	0.00	-184.67	0.00	184.67	3,152.80	1,576.40	5,017.53	2,512.49	1.37	-0.20	0.052
65.00	-26.24	-1.68	0.00	-182.98	0.00	182.98	3,142.13	1,571.07	4,977.80	2,492.60	1.41	-0.21	0.052
66.00	-25.99	-1.67	0.00	-181.30	0.00	181.30	3,131.44	1,565.72	4,938.17	2,472.75	1.46	-0.21	0.051
67.00	-25.74	-1.65	0.00	-179.63	0.00	179.63	3,120.71	1,560.35	4,898.65	2,452.96	1.50	-0.22	0.051
68.00	-25.50	-1.64	0.00	-177.98	0.00	177.98	3,109.92	1,554.96	4,859.19	2,433.21	1.55	-0.22	0.051
69.00	-25.25	-1.63	0.00	-176.34	0.00	176.34	3,095.65	1,547.82	4,814.46	2,410.81	1.59	-0.22	0.051
70.00	-25.01	-1.61	0.00	-174.71	0.00	174.71	3,081.37	1,540.68	4,769.94	2,388.51	1.64	-0.23	0.051
71.00	-24.76	-1.60	0.00	-173.10	0.00	173.10	3,067.09	1,533.55	4,725.62	2,366.32	1.69	-0.23	0.051
72.00	-24.52	-1.59	0.00	-171.50	0.00	171.50	3,052.81	1,526.41	4,681.51	2,344.23	1.73	-0.23	0.051
73.00	-24.27	-1.57	0.00	-169.91	0.00	169.91	3,038.54	1,519.27	4,637.61	2,322.25	1.78	-0.24	0.050
74.00	-24.03	-1.56	0.00	-168.34	0.00	168.34	3,024.26	1,512.13	4,593.91	2,300.37	1.83	-0.24	0.050
75.00	-23.79	-1.55	0.00	-166.78	0.00	166.78	3,009.98	1,504.99	4,550.42	2,278.59	1.89	-0.25	0.050
76.00	-23.55	-1.54	0.00	-165.23	0.00	165.23	2,995.70	1,497.85	4,507.14	2,256.92	1.94	-0.25	0.050
77.00	-23.31	-1.53	0.00	-163.69	0.00	163.69	2,981.43	1,490.71	4,464.06	2,235.35	1.99	-0.25	0.050
78.00	-23.07	-1.52	0.00	-162.16	0.00	162.16	2,967.15	1,483.57	4,421.19	2,213.88	2.04	-0.26	0.050
79.00	-22.83	-1.51	0.00	-160.64	0.00	160.64	2,952.87	1,476.44	4,378.53	2,192.52	2.10	-0.26	0.050
80.00	-22.59	-1.50	0.00	-159.13	0.00	159.13	2,938.59	1,469.30	4,336.07	2,171.26	2.15	-0.26	0.049
81.00	-22.35	-1.49	0.00	-157.64	0.00	157.64	2,924.32	1,462.16	4,293.83	2,150.10	2.21	-0.27	0.049
82.00	-22.11	-1.48	0.00	-156.15	0.00	156.15	2,910.04	1,455.02	4,251.78	2,129.05	2.27	-0.27	0.049
83.00	-21.87	-1.47	0.00	-154.67	0.00	154.67	2,895.76	1,447.88	4,209.95	2,108.10	2.32	-0.28	0.049
84.00	-21.64	-1.47	0.00	-153.19	0.00	153.19	2,881.48	1,440.74	4,168.32	2,087.26	2.38	-0.28	0.049
85.00	-21.40	-1.46	0.00	-151.73	0.00	151.73	2,867.21	1,433.60	4,126.90	2,066.52	2.44	-0.28	0.049
86.00	-21.17	-1.45	0.00	-150.27	0.00	150.27	2,852.93	1,426.46	4,085.69	2,045.88	2.50	-0.29	0.049
87.00	-20.93	-1.45	0.00	-148.82	0.00	148.82	2,838.65	1,419.33	4,044.68	2,025.35	2.56	-0.29	0.048
88.00	-20.60	-1.44	0.00	-147.37	0.00	147.37	2,824.37	1,412.19	4,003.88	2,004.91	2.62	-0.30	0.048
89.00	-20.26	-1.44	0.00	-145.93	0.00	145.93	2,810.09	1,405.05	3,963.28	1,984.59	2.68	-0.30	0.048
90.00	-19.93	-1.43	0.00	-144.49	0.00	144.49	2,795.82	1,397.91	3,922.90	1,964.36	2.75	-0.30	0.047
91.00	-19.59	-1.43	0.00	-143.06	0.00	143.06	2,781.54	1,390.77	3,882.72	1,944.24	2.81	-0.31	0.047
92.00	-19.26	-1.43	0.00	-141.63	0.00	141.63	2,767.26	1,383.63	3,842.74	1,924.23	2.88	-0.31	0.047
93.00	-19.05	-1.43	0.00	-140.20	0.00	140.20	2,292.76	1,146.38	3,238.31	1,621.56	2.94	-0.32	0.052
94.00	-18.84	-1.43	0.00	-138.78	0.00	138.78	2,284.25	1,142.13	3,209.75	1,607.26	3.01	-0.32	0.052
95.00	-18.62	-1.43	0.00	-137.35	0.00	137.35	2,275.71	1,137.86	3,181.27	1,593.00	3.08	-0.32	0.052
96.00	-18.41	-1.43	0.00	-135.92	0.00	135.92	2,267.14	1,133.57	3,152.86	1,578.78	3.14	-0.33	0.052
97.00	-18.20	-1.43	0.00	-134.49	0.00	134.49	2,258.54	1,129.27	3,124.54	1,564.59	3.21	-0.33	0.051
98.00	-17.99	-1.44	0.00	-133.05	0.00	133.05	2,249.90	1,124.95	3,096.30	1,550.45	3.28	-0.34	0.051
99.00	-17.78	-1.44	0.00	-131.61	0.00	131.61	2,241.24	1,120.62	3,068.14	1,536.35	3.35	-0.34	0.051
100.00	-17.57	-1.45	0.00	-130.17	0.00	130.17	2,232.54	1,116.27	3,040.06	1,522.29	3.43	-0.34	0.050
101.00	-17.36	-1.46	0.00	-128.72	0.00	128.72	2,223.81	1,111.90	3,012.06	1,508.27	3.50	-0.35	0.050
102.00	-17.15	-1.46	0.00	-127.27	0.00	127.27	2,215.04	1,107.52	2,984.14	1,494.29	3.57	-0.35	0.050
103.00	-16.94	-1.47	0.00	-125.81	0.00	125.81	2,206.25	1,103.12	2,956.31	1,480.35	3.65	-0.36	0.050
104.00	-16.73	-1.48	0.00	-124.34	0.00	124.34	2,197.42	1,098.71	2,928.57	1,466.46	3.72	-0.36	0.049
105.00	-16.58	-1.48	0.00	-122.86	0.00	122.86	2,188.56	1,094.28	2,900.91	1,452.61	3.80	-0.37	0.049
105.00	-16.58	-1.48	0.00	-122.86	0.00	122.86	2,188.56	1,094.28	2,900.91	1,452.61	3.80	-0.37	0.092
106.00	-16.43	-1.49	0.00	-121.38	0.00	121.38	2,179.67	1,089.83	2,873.33	1,438.80	3.88	-0.37	0.092
107.00	-16.28	-1.50	0.00	-119.88	0.00	119.88	2,170.74	1,085.37	2,845.85	1,425.04	3.95	-0.38	0.092
108.00	-16.13	-1.51	0.00	-118.38	0.00	118.38	2,161.78	1,080.89	2,818.44	1,411.32	4.03	-0.39	0.091
109.00	-15.99	-1.52	0.00	-116.87	0.00	116.87	2,150.55	1,075.28	2,788.22	1,396.18	4.12	-0.40	0.091
110.00	-15.84	-1.53	0.00	-115.36	0.00	115.36	2,138.65	1,069.33	2,757.31	1,380.70	4.20	-0.40	0.091
111.00	-15.69	-1.54	0.00	-113.83	0.00	113.83	2,126.76	1,063.38	2,726.56	1,365.31	4.29	-0.41	0.091
112.00	-15.54	-1.55	0.00	-112.29	0.00	112.29	2,114.86	1,057.43	2,695.99	1,350.00	4.37	-0.42	0.091
113.00	-15.40	-1.56	0.00	-110.75	0.00	110.75	2,102.96	1,051.48	2,665.59	1,334.78	4.46	-0.43	0.090

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114.00	-15.25	-1.57	0.00	-109.19	0.00	109.19	2,091.06	1,045.53	2,635.36	1,319.64	4.55	-0.44	0.090
115.00	-15.11	-1.58	0.00	-107.62	0.00	107.62	2,079.16	1,039.58	2,605.31	1,304.59	4.65	-0.45	0.090
116.00	-15.03	-1.58	0.00	-106.05	0.00	106.05	2,067.27	1,033.63	2,575.43	1,289.63	4.74	-0.45	0.090
116.50	-14.93	-1.59	0.00	-105.26	0.00	105.26	2,061.32	1,030.66	2,560.55	1,282.18	4.79	-0.46	0.089
117.00	-14.71	-1.60	0.00	-104.46	0.00	104.46	2,055.37	1,027.68	2,545.72	1,274.75	4.84	-0.46	0.089
118.00	-14.50	-1.62	0.00	-102.86	0.00	102.86	2,043.47	1,021.73	2,516.18	1,259.96	4.93	-0.47	0.089
119.00	-14.28	-1.63	0.00	-101.24	0.00	101.24	2,031.57	1,015.79	2,486.81	1,245.26	5.03	-0.48	0.088
120.00	-14.07	-1.64	0.00	-99.61	0.00	99.61	2,019.67	1,009.84	2,457.62	1,230.64	5.14	-0.49	0.088
121.00	-13.94	-1.65	0.00	-97.97	0.00	97.97	1,562.89	781.45	1,930.84	966.86	5.24	-0.50	0.110
122.00	-13.82	-1.66	0.00	-96.32	0.00	96.32	1,556.55	778.28	1,911.74	957.29	5.34	-0.51	0.109
123.00	-13.69	-1.67	0.00	-94.66	0.00	94.66	1,550.18	775.09	1,892.68	947.75	5.45	-0.52	0.109
124.00	-13.57	-1.68	0.00	-92.99	0.00	92.99	1,543.77	771.89	1,873.68	938.23	5.56	-0.53	0.108
125.00	-13.44	-1.69	0.00	-91.31	0.00	91.31	1,537.34	768.67	1,854.73	928.74	5.67	-0.54	0.107
126.00	-13.32	-1.70	0.00	-89.62	0.00	89.62	1,530.87	765.43	1,835.84	919.28	5.78	-0.55	0.106
127.00	-10.74	-1.82	0.00	-87.92	0.00	87.92	1,524.37	762.18	1,817.00	909.85	5.90	-0.56	0.104
128.00	-10.63	-1.82	0.00	-86.11	0.00	86.11	1,517.84	758.92	1,798.22	900.45	6.02	-0.57	0.103
129.00	-10.52	-1.83	0.00	-84.28	0.00	84.28	1,511.27	755.64	1,779.50	891.07	6.14	-0.58	0.102
130.00	-10.41	-1.84	0.00	-82.45	0.00	82.45	1,504.67	752.34	1,760.83	881.72	6.26	-0.59	0.100
131.00	-10.30	-1.84	0.00	-80.62	0.00	80.62	1,498.04	749.02	1,742.22	872.40	6.38	-0.60	0.099
132.00	-10.19	-1.85	0.00	-78.78	0.00	78.78	1,491.38	745.69	1,723.67	863.12	6.51	-0.61	0.098
133.00	-10.08	-1.85	0.00	-76.93	0.00	76.93	1,484.69	742.34	1,705.18	853.86	6.64	-0.62	0.097
134.00	-9.98	-1.86	0.00	-75.08	0.00	75.08	1,477.96	738.98	1,686.75	844.63	6.77	-0.63	0.096
135.00	-9.87	-1.86	0.00	-73.22	0.00	73.22	1,471.20	735.60	1,668.38	835.43	6.90	-0.64	0.094
136.00	-9.76	-1.86	0.00	-71.36	0.00	71.36	1,464.41	732.21	1,650.07	826.26	7.03	-0.65	0.093
137.00	-9.65	-1.87	0.00	-69.49	0.00	69.49	1,457.59	728.80	1,631.83	817.13	7.17	-0.66	0.092
138.00	-9.54	-1.87	0.00	-67.63	0.00	67.63	1,450.74	725.37	1,613.64	808.02	7.31	-0.66	0.090
139.00	-9.44	-1.87	0.00	-65.75	0.00	65.75	1,443.85	721.92	1,595.53	798.95	7.45	-0.67	0.089
140.00	-9.33	-1.87	0.00	-63.88	0.00	63.88	1,436.93	718.47	1,577.47	789.91	7.59	-0.68	0.087
141.00	-9.23	-1.88	0.00	-62.01	0.00	62.01	1,429.98	714.99	1,559.48	780.90	7.74	-0.69	0.086
142.00	-9.12	-1.88	0.00	-60.13	0.00	60.13	1,423.00	711.50	1,541.56	771.93	7.88	-0.70	0.084
143.00	-9.02	-1.88	0.00	-58.26	0.00	58.26	1,415.98	707.99	1,523.71	762.99	8.03	-0.71	0.083
144.00	-8.91	-1.88	0.00	-56.38	0.00	56.38	1,408.93	704.47	1,505.92	754.08	8.18	-0.72	0.081
145.00	-8.80	-1.87	0.00	-54.51	0.00	54.51	1,401.85	700.93	1,488.20	745.20	8.33	-0.73	0.079
146.00	-7.51	-1.84	0.00	-52.63	0.00	52.63	1,394.74	697.37	1,470.54	736.36	8.49	-0.74	0.077
147.00	-7.42	-1.83	0.00	-50.80	0.00	50.80	1,387.60	693.80	1,452.96	727.56	8.64	-0.75	0.075
148.00	-7.33	-1.83	0.00	-48.96	0.00	48.96	1,379.83	689.92	1,434.84	718.48	8.80	-0.76	0.073
149.00	-7.20	-1.83	0.00	-47.13	0.00	47.13	1,370.32	685.16	1,415.01	708.56	8.96	-0.76	0.072
150.00	-7.07	-1.82	0.00	-45.30	0.00	45.30	1,360.80	680.40	1,395.33	698.70	9.12	-0.77	0.070
151.00	-6.93	-1.81	0.00	-43.49	0.00	43.49	1,351.28	675.64	1,375.78	688.91	9.28	-0.78	0.068
152.00	-6.87	-1.81	0.00	-41.67	0.00	41.67	1,341.76	670.88	1,356.37	679.19	9.45	-0.79	0.066
152.50	-6.83	-1.80	0.00	-40.77	0.00	40.77	942.35	471.17	968.66	485.05	9.53	-0.79	0.091
153.00	-6.75	-1.80	0.00	-39.87	0.00	39.87	940.20	470.10	963.05	482.24	9.61	-0.80	0.090
154.00	-6.68	-1.79	0.00	-38.07	0.00	38.07	935.87	467.94	951.84	476.63	9.78	-0.81	0.087
155.00	-6.61	-1.79	0.00	-36.27	0.00	36.27	931.51	465.76	940.66	471.03	9.95	-0.81	0.084
156.00	-6.53	-1.78	0.00	-34.49	0.00	34.49	927.12	463.56	929.51	465.45	10.12	-0.82	0.081
157.00	-6.46	-1.77	0.00	-32.70	0.00	32.70	922.70	461.35	918.40	459.88	10.29	-0.83	0.078
158.00	-6.39	-1.77	0.00	-30.93	0.00	30.93	918.25	459.12	907.31	454.33	10.47	-0.84	0.075
159.00	-6.31	-1.76	0.00	-29.16	0.00	29.16	913.76	456.88	896.26	448.80	10.65	-0.85	0.072
160.00	-6.24	-1.75	0.00	-27.41	0.00	27.41	909.24	454.62	885.24	443.28	10.83	-0.86	0.069
161.00	-6.17	-1.74	0.00	-25.66	0.00	25.66	904.69	452.35	874.26	437.78	11.01	-0.86	0.065
162.00	-6.10	-1.73	0.00	-23.92	0.00	23.92	900.11	450.06	863.31	432.30	11.19	-0.87	0.062
163.00	-6.02	-1.72	0.00	-22.19	0.00	22.19	895.50	447.75	852.40	426.83	11.37	-0.88	0.059
164.00	-5.95	-1.71	0.00	-20.47	0.00	20.47	890.85	445.42	841.52	421.39	11.56	-0.88	0.055
165.00	-5.88	-1.69	0.00	-18.77	0.00	18.77	886.17	443.09	830.68	415.96	11.74	-0.89	0.052
166.00	-5.81	-1.68	0.00	-17.08	0.00	17.08	881.46	440.73	819.88	410.55	11.93	-0.90	0.048
167.00	-2.90	-1.08	0.00	-15.40	0.00	15.40	876.72	438.36	809.12	405.16	12.12	-0.90	0.041
168.00	-2.84	-1.07	0.00	-14.31	0.00	14.31	871.94	435.97	798.40	399.79	12.31	-0.91	0.039
169.00	-2.79	-1.06	0.00	-13.24	0.00	13.24	867.13	433.57	787.71	394.44	12.50	-0.91	0.037
170.00	-2.73	-1.04	0.00	-12.18	0.00	12.18	862.29	431.15	777.07	389.11	12.69	-0.92	0.034
171.00	-2.61	-1.01	0.00	-11.14	0.00	11.14	857.42	428.71	766.47	383.80	12.88	-0.92	0.032
172.00	-2.56	-1.00	0.00	-10.12	0.00	10.12	852.52	426.26	755.91	378.52	13.07	-0.92	0.030
173.00	-2.50	-0.99	0.00	-9.12	0.00	9.12	847.58	423.79	745.39	373.25	13.27	-0.93	0.027
174.00	-2.45	-0.97	0.00	-8.14	0.00	8.14	842.61	421.31	734.92	368.01	13.46	-0.93	0.025
175.00	-2.40	-0.96	0.00	-7.16	0.00	7.16	837.61	418.81	724.49	362.78	13.66	-0.93	0.023

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176.00	-2.35	-0.94	0.00	-6.21	0.00	6.21	832.58	416.29	714.11	357.59	13.85	-0.94	0.020
177.00	-2.30	-0.92	0.00	-5.27	0.00	5.27	827.51	413.76	703.77	352.41	14.05	-0.94	0.018
178.00	-2.25	-0.91	0.00	-4.35	0.00	4.35	822.42	411.21	693.48	347.26	14.25	-0.94	0.015
179.00	-2.20	-0.89	0.00	-3.44	0.00	3.44	817.29	408.64	683.23	342.12	14.45	-0.94	0.013
180.00	-2.15	-0.87	0.00	-2.55	0.00	2.55	812.13	406.06	673.04	337.02	14.64	-0.94	0.010
181.00	-2.10	-0.85	0.00	-1.68	0.00	1.68	806.93	403.47	662.89	331.94	14.84	-0.95	0.008
182.00	-2.05	-0.83	0.00	-0.83	0.00	0.83	801.71	400.85	652.79	326.88	15.04	-0.95	0.005
183.00	0.00	-0.80	0.00	0.00	0.00	0.00	796.45	398.23	642.74	321.85	15.24	-0.95	0.000

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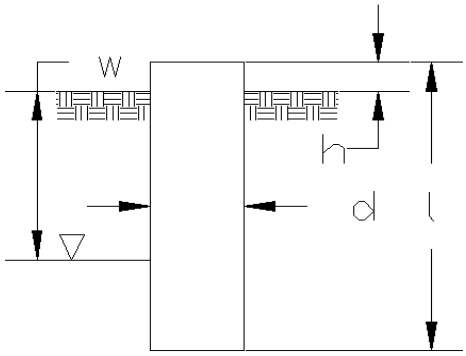
Analysis Summary

Load Case	Reactions Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Max Usage Elev (ft)	Interaction Ratio
1.2D + 1.6W	36.29	0.00	67.89	0.00	0.00	4484.68	0.00	0.79
0.9D + 1.6W	34.98	0.00	50.92	0.00	0.00	4321.40	0.00	0.76
1.2D + 1.0Di + 1.0Wi	8.71	0.00	107.52	0.00	0.00	1135.61	121.00	0.23
(1.2 + 0.2Sds) * DL + E ELFM	2.21	0.00	69.81	0.00	0.00	321.66	121.00	0.08
(1.2 + 0.2Sds) * DL + E EMAM	2.75	0.00	69.81	0.00	0.00	339.83	121.00	0.12
(0.9 - 0.2Sds) * DL + E ELFM	2.20	0.00	48.34	0.00	0.00	314.81	121.00	0.07
(0.9 - 0.2Sds) * DL + E EMAM	2.75	0.00	48.34	0.00	0.00	332.42	121.00	0.11
1.0D + 1.0W	8.36	0.00	56.59	0.00	0.00	1040.26	0.00	0.19

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Upper Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Lower Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Max Member Pu (kip)	phiPn (kip)	Ratio
0.00	22.5	(4) SOL-#20 All Thre	187.9	3.8	16.8	0.0	12.0	0	0	0.0	12.0	0	0	249.3	343.1	0.727
22.5	43.0	(4) SOL-#20 All Thre	202.9	3.7	16.8	0.0	12.0	0	0	0.0	12.0	0	0	238.1	345.0	0.690
43.0	105.	(4) SOL-#20 All Thre	295.8	8.9	16.8	161.1	12.0	14	14	0.0	12.0	0	0	223.2	330.5	0.675

Site Name:	Milford CT 2, CT	*Program Last Updated:*	*5/13/2014*
Site Number:	302535	*American Tower Corporation*	
Engineer:	R. Barrett		
Engineering Number:	OAA684493_C3_02		
Date:	09/28/16		



Design Base Loads (Factored) - Analysis per TIA-222-G Standards

Analyze or Design a Foundation?	Analyze	
Foundation Mapped:	N	
Moment (M):	4484.7	k-ft
Shear/Leg (V):	36.3	k
Axial Load (P):	67.9	k
Uplift/Leg (U):	0.0	k
Tower Type (GT / SST / MP):	MP	
Diameter of Caisson (d):	6.0	ft
Caisson Embedment (L-h):	20.0	ft
Caisson Height Above Ground (h):	0.5	ft
Depth Below Ground Surface to Water Table (w):	99.0	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Water:	62.4	pcf
Tension Skin Friction/Compression Skin Friction:	1.00	
Pullout Angle:	30.0	degrees

Engineer Notes

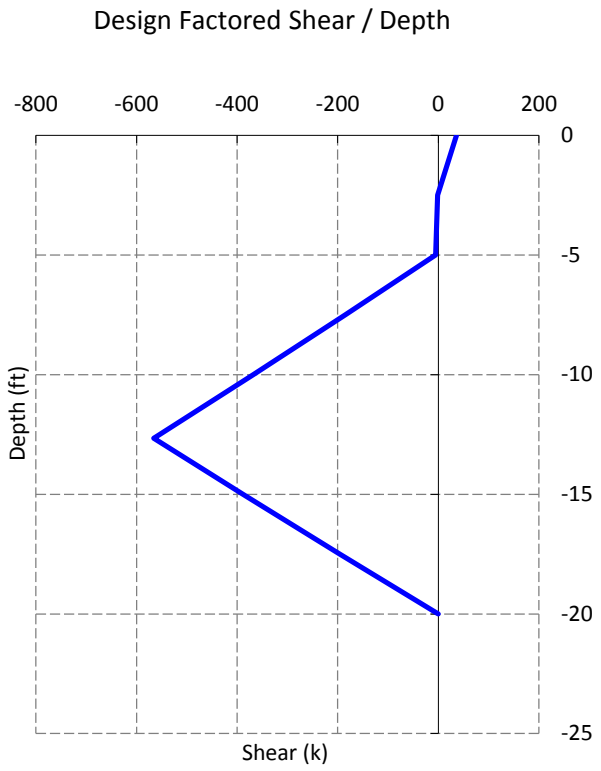
Soil Mechanical Properties

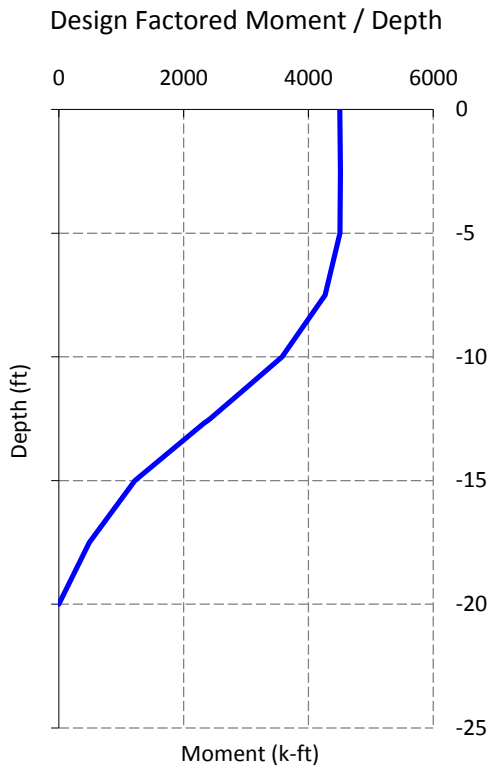
Depth (ft) Top	Depth (ft) Bottom	γ_{Soil} (pcf)	Cohesion (psf)	ϕ (degree)	Ultimate Skin Friction (psf)	Ultimate Bearing Pressure (psf)
0.0	3.0	100	0	0	0	0
3.0	15.0	125	6250	0	3125	36827
15.0	21.0	125	6250	0	3125	37921

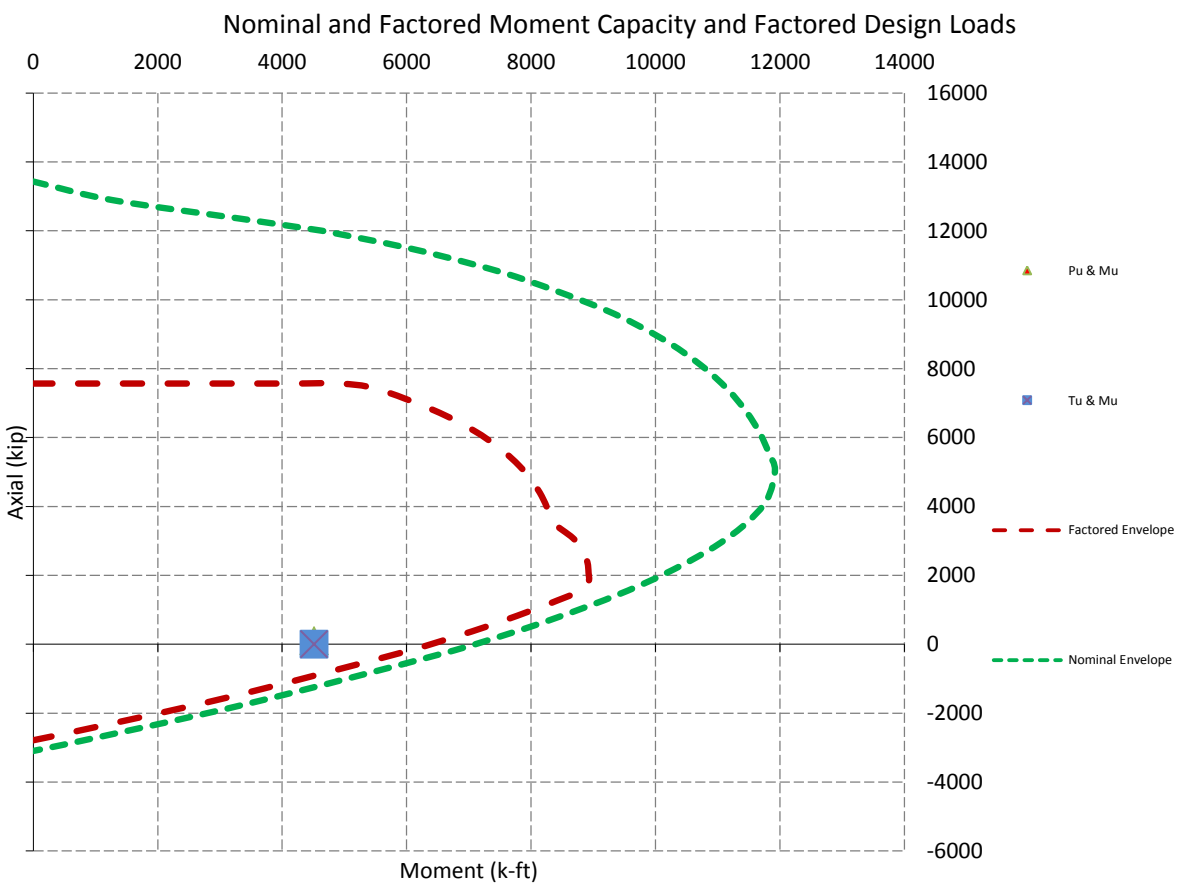
Volume of Concrete:	579.6	ft^3 = 21.5 yd^3
Weight of Concrete (Buoyancy Effect Considered):	86.9	k
Average Soil Unit Weight:	121.3	pcf
Skin Friction Resistance:	1001.4	k
Compressive Bearing Resistance:	1072.2	k
Pullout Weight (Minus Concrete Weight):	602.5	k
Nominal Uplift Capacity per Leg ($\phi_s T_n$):	451.9	k
Nominal Compressive Capacity per Leg ($\phi_s P_n$):	1555.2	k
P_u:	87.4	k
$T_u/\phi_s T_n$:	0.00	Result: OK
$P_u/\phi_s P_n$:	0.06	Result: OK
Total Lateral Resistance:	4190.2	k
Inflection Point (Below Ground Surface):	12.7	ft
Design Overturning Moment At Inflection Point (M_D):	4962.2	k-ft
Nominal Moment Capacity ($\phi_s M_n$):	11861.2	k-ft
$M_D/\phi_s M_n$:	0.42	Result: OK
ϕ_s:	0.75	

Caisson Strength Capacity

Concrete Compressive Strength (f'_c):	3000	psi
Vertical Steel Rebar Size #:	11	
Vertical Steel Rebar Area:	1.56	in^2
# of Vertical Steel Rebars:	33	
Vertical Steel Rebar Yield Strength (F_y):	60	ksi
Horizontal Tie / Stirrup Size #:	4	
Horizontal Tie / Stirrup Area:	0.20	in^2
Design Horizontal Tie / Stirrup Spacing:	12.0	in
Horizontal Tie / Stirrup Steel Yield Strength (F_y):	60	ksi
Rebar Cage Diameter:	64.0	in
Strength Bending/Tension Reduction Factor (ϕ_B):	0.90	ACI318-05 - 9.3.2.1
Strength Shear Reduction Factor (ϕ_V):	0.75	ACI318-05 - 9.3.2.3
Strength Compression Reduction Factor (ϕ_V):	0.65	ACI318-05 - 9.3.2.2
Steel Elastic Modulus:	29000	ksi
Design Moment (M_u):	4513.5	k-ft
Nominal Moment Capacity ($\phi_B M_n$):	6808.9	k-ft - ACI318-005 - 10.2
$M_u/\phi_B M_n$:	0.66	Result: OK
Design Shear (V_u):	565.7	k
Nominal Shear Capacity ($\phi_V V_n$):	423.7	k - ACI318-05 - 11.3.1.1 or 11.5.7.2
$V_u/\phi_V V_n$:	1.34	Result: OK
Design Tension (T_u):	0.0	k
Nominal Tension Capacity ($\phi_T T_n$):	2779.9	k - ACI318-05 - 10.2
$T_u/\phi_T T_n$:	0.00	Result: OK
Design Compression (P_u):	87.4	k
Nominal Compression Capacity ($\phi_P P_n$):	5330.6	k - ACI318-05 - 10.3.6.2
$P_u/\phi_P P_n$:	0.02	Result: OK
Bending Reinforcement Ratio:	0.013	ACI318-05 - 10.8.4 & 10.9.1
$M_u/\phi_B M_n + T_u/\phi_T T_n$:	0.66	Result: OK


Design Factored Shear / Depth
-800
-600
-400
-200
0
200
0
-5
-10
-15
-20
-25
Depth (ft)
Shear (k)


Design Factored Moment / Depth
0
2000
4000
6000
0
-5
-10
-15
-20
-25
Depth (ft)
Moment (k-ft)


Nominal and Factored Moment Capacity and Factored Design Loads
0
2000
4000
6000
8000
10000
12000
14000
16000
14000
12000
10000
8000
6000
4000
2000
0
-2000
-4000
-6000
Axial (klp)
Moment (k-ft)
Pu & Mu
Tu & Mu
Factored Envelope
Nominal Envelope

Base/Flange Plate	Plate Type	***Baseplate***	
	Pole Diameter	48.62	in
	Pole Thickness	0.5	in
	Plate Length	56	in
	Plate Thickness	2.75	in
	Plate Fy	50	ksi
	Weld Length	0.3125	in
	ϕ_s Resistance	2526.82	k-in
	Applied	1211.32	k-in
Stiffeners	#	***0***	

Bolts ●	#	***16***	
	Bolt Circle	56	in
	(R)adial / (S)quare	S	
	Bolt Gap	6	in
	Diameter	2.25	in
	Hole Diameter	2.5	in
	Type	A615-75	
	Fy	75	ksi
	Fu	100	ksi
	ϕ_s Resistance	259.82	k
	Applied	142.34	k
Reinforcement ●	#	***0***	
Extra Bolts O	#	***8***	
	Bolt Circle	55.5	in
	(R)adial / (S)quare	S	
	Bolt Gap	0	in
	Offset Angle	45	°
	Diameter	2.72	in
	Type	DYWIDAG	
	Fy	80	ksi
	Fu	100	ksi
	ϕ_s Resistance	385.33	k
	Applied	152.84	k

Code Rev.	***G***
Moment	4484.7 k-ft
Axial	67.9 k

Date	9/28/2016
Engineer	RDB
Site #	302535
Carrier	AT&T Mobility

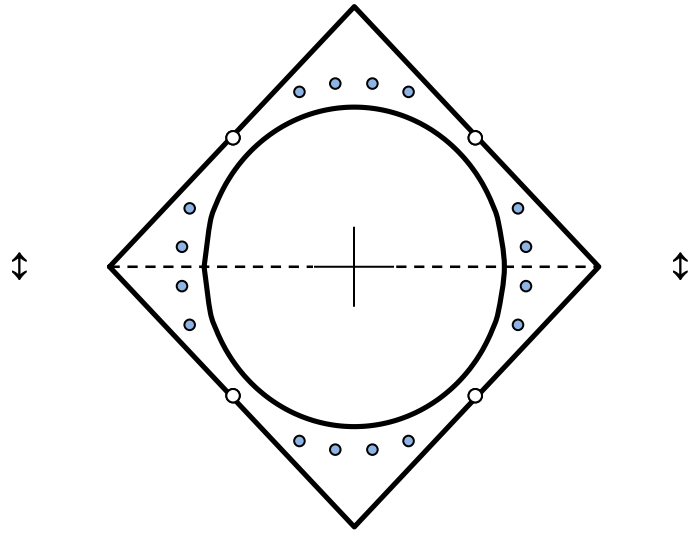


Plate Stress Ratio:
0.48 (Pass)

Bolt Stress Ratio:
0.55 (Pass)

Extra Bolt Stress Ratio:
0.40 (Pass)