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Structural Analysis Report

Structure : 480 ft Guyed Tower
ATC Site Name : Lee S Summit #1b, MO
ATC Site Number : 36075
Engineering Number : OAA715533_C3_02
Proposed Carrier : Sprint Nextel
Carrier Site Name : ATC#36075 Lowenstein
Carrier Site Number : KC25XC198
Site Location : 2200 LOWENSTEIN
Lees Summit, MO 64081-1905
38.933200,-94.417600
County : Jackson
Date : October 24, 2017
Max Usage : 90%
Result : Pass

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CLS - Director of Engineering
PE # 2014023899 Exp. 12/31/2018
COA # 2010039825 Exp. 12/31/2018

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 480 ft guyed tower to reflect the change in loading by Sprint Nextel.

Supporting Documents

Tower Drawings	Allied Tower, Drawing #B-21081 dated August 8, 2000
Foundation Drawing	Allied Tower, Drawing #B-21136 dated August 31, 2000
Geotechnical Report	GeoSystems Engineering, Inc., Job #1995328 dated September 9, 1999

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:	90 mph (3-Second Gust, V_{asd}) / 115 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	40 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC
Structure Class:	II
Exposure Category:	C
Topographic Category:	1
Spectral Response:	$S_s = 0.11$, $S_1 = 0.07$
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					
480.0	510.0	1	Decibel DB264	Pole Extension	(1) 7/8" Coax	US Department Of Justice
475.0	485.0	1	Decibel DB264	Sector Frames	(1) 7/8" Coax	
457.0	463.0	1	13' Omni	Side Arm	(1) 1 5/8" Coax	--
427.0	431.0	1	Decibel DB408	Side Arms	(1) 3" Coax	Jade Alarm Co.
	432.5	1	11' Omni		(1) 1 5/8" Coax	Spok Holdings
420.5	420.5	1	Panasonic VIC100 (3.9")	Stand-Off	(1) 0.19" RG-58/U	Pixius Comm.
419.0	419.0	1	Andrew VHLP6-6W	Leg	(1) 0.24" Cat 5	
417.0	417.0	1	30" x 23" BOB	Leg	(1) 0.24" Cat 5	
		1	Andrew VHLP4-11W		(1) 0.63" Cable (1) 0.24" Fiber	
407.0	407.0	4	Motorola 5780AP	Leg	(2) 0.24" Cat 5	--
397.0	403.0	2	13' Omni	Side Arms	(3) 1 5/8" Coax	
355.0	365.0	1	Decibel DB224-A	Side Arm	(1) 1/2" Coax	Mobilefone
330.0	339.0	1	Andrew DB420D-B	Side Arm	(1) 7/8" Coax	
320.0	326.0	2	13' Omni	Side Arm	(2) 1 1/4" Coax	--
189.0	200.0	1	Decibel DB224-FAA	Side Arm	(1) 1/2" Coax	Mobilefone
171.0	171.0	9	Decibel DB844H90E-XY	Sector Frames	(9) 1 5/8" Coax	Sprint Nextel
157.0	157.0	3	Argus LLPX310R	Side Arms	(4) 1/2" Coax (3) 3/8" Coax (2) 2" conduit (1) 0.24" Cat 5	Clearwire
		1	Motorola PTP58600			
		1	Andrew PX2F-52-NXA			
		1	Andrew VHLP800-11-2WH			
		1	DragonWave Horizon DUO (Radio)			
		3	Samsung 2.5GHz nRRHv2			
130.0	130.0	-	-	Sector Frames	-	-
91.0	91.0	1	Andrew DB437	Leg	(1) 1/2" Coax	Mobilefone
81.0	81.0	1	Decibel DB230E	Leg	(1) 1/2" Coax	
10.0	10.0	1	PCTEL MYA4503	Leg	-	Jade Alarm Co.
4.0	4.0	1	4' Std. Dish	Leg	(1) 3/8" Coax	Spok Holdings

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
No loading considered as to be removed						

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
180.0	180.0	3	Commscope LDX-6516DS-VTM	Sector Frames	(3) 1 1/4" Hybriflex	Sprint Nextel
		3	Commscope HHT465B-PF-2XR			
		3	Ericsson RRUS82 w/ Solarshield			
		3	Ericsson RRUS-11 800MHz			
		3	Ericsson RRUS 31			

¹Mount 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 anywhere on tower.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	77%	Pass
Diagonals	73%	Pass
Horizontals	90%	Pass
Guys	69%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Base Axial (kips)	490.8	662.5	610.4	92%
Anchor 1 Uplift (kips)	55.1	74.3	43.3	58%
Anchor 1 Shear (kips)	53.4	72.1	43.0	60%
Anchor 2 Uplift (kips)	111.3	150.2	72.0	48%
Anchor 2 Shear (kips)	95.1	128.4	69.3	54%

* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
419.0	Andrew Microwaves VHLP6-6W	PIXIUS COMMUNICATION	0.201	0.003	0.033
417.0	Andrew VHLP4-11W		0.200		0.026
180.0	Ericsson RRUS 31	SPRINT NEXTEL	0.174	0.020	0.035
	Ericsson RRUS-11 800 MHz				
	Ericsson RRUS82 w/ Solarshield				
	Commscope HHT465B-PF-2XR				
	Commscope LDX-6516DS-VTM				
157.0	Andrew Microwaves PX2F-52-NXA	CLEARWIRE CORPORATION	0.154	0.021	0.062
	Andrew VHLP800-11-2WH				
4.0	4' Std. Dish	SPOK HOLDINGS, INC.	0.007	0.025	0.107

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



Standard Conditions

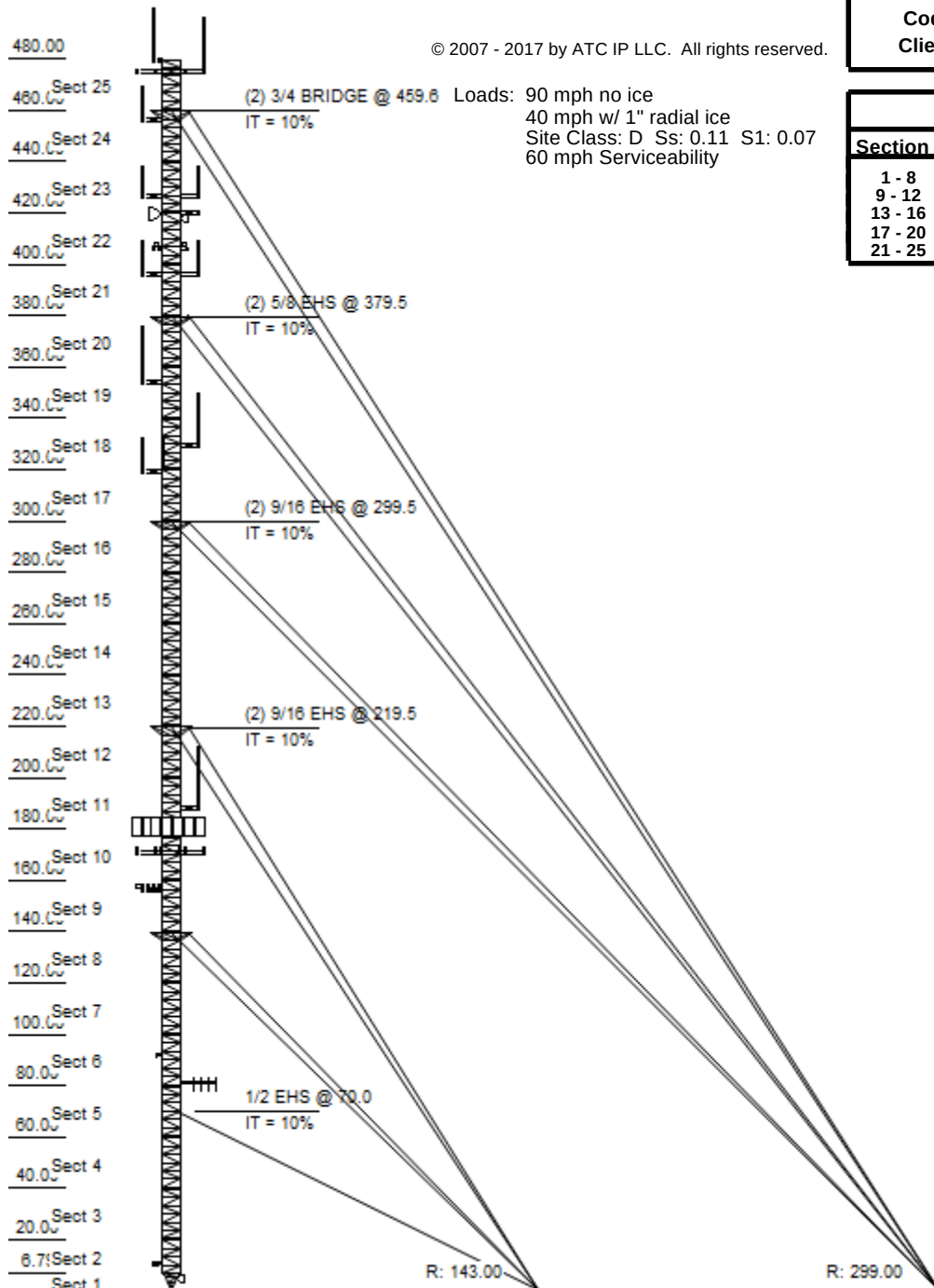
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- 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 ATC Tower Services 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. ATC Tower Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



Job Information

Tower : 36075

Location : Lee S Summit #1b, MO

Code : ANSI/TIA-222-G

Shape : Triangle

Base Width : 3.50 ft

Client : SPRINT NEXTEL

Sections Properties

Section	Leg Members	Diagonal Members	Horizontal Members
1 - 8	SOL 50 ksi 3" SOLID	SOL 36 ksi 1 1/8" SOLID	SOL 36 ksi 7/8" SOLID
9 - 12	SOL 50 ksi 3" SOLID	SOL 36 ksi 1 1/4" SOLID	SOL 36 ksi 7/8" SOLID
13 - 16	SOL 50 ksi 2 3/4" SOLID	SOL 36 ksi 1 1/8" SOLID	SOL 36 ksi 7/8" SOLID
17 - 20	SOL 50 ksi 2 1/2" SOLID	SOL 36 ksi 1 1/4" SOLID	SOL 36 ksi 7/8" SOLID
21 - 25	SOL 50 ksi 2 1/4" SOLID	SOL 36 ksi 1 1/4" SOLID	SOL 36 ksi 7/8" SOLID

Discrete Appurtenance

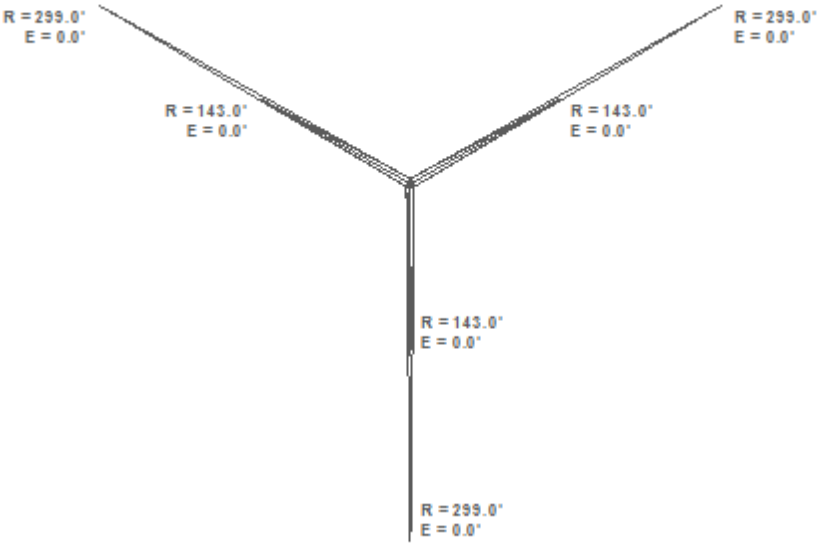
Elev (ft)	Type	Qty	Description
480.00	Whip	1	Decibel DB264
475.00	Mounting Frame	3	Flat Light Sector Frame
475.00	Whip	1	Decibel DB264
460.00	Other	1	Torque Arms
457.00	Straight Arm	1	Round Side Arm
457.00	Whip	1	13' Omni
427.00	Whip	1	11' Omni
427.00	Whip	1	Decibel DB408
427.00	Straight Arm	2	Round Side Arm
420.50	Straight Arm	1	Stand-Off
420.50	Whip	1	Panasonic VIC100 (3.9")
419.00	Dish	1	Andrew Microwaves VHLP6-6W
417.00		1	30" x 23" BOB
417.00	Dish	1	Andrew VHLP4-11W
407.00	Panel	4	Motorola 5780AP
397.00	Whip	2	13' Omni
397.00	Straight Arm	2	Round Side Arm
355.00	Whip	1	Decibel DB224-A
355.00	Straight Arm	1	Round Side Arm
330.00	Whip	1	Andrew DB420D-B
330.00	Straight Arm	1	Round Side Arm
320.00	Straight Arm	1	Round Side Arm
320.00	Whip	2	13' Omni
300.00	Other	1	Torque Arms
220.00	Other	1	Torque Arms
189.00	Whip	1	Decibel DB224-FAA
189.00	Straight Arm	1	Round Side Arm
180.00	Panel	3	Commscope LDX-6516DS-VTM
180.00	Panel	3	Commscope HHT465B-PF-2XR
180.00	Panel	3	Ericsson RRUS82 w/ Solarshield
180.00	Panel	3	Ericsson RRUS-11 800 MHz
180.00	Panel	3	Ericsson RRUS 31
180.00	Mounting Frame	3	Flat Light Sector Frame
171.00	Panel	9	Decibel DB844H90E-XY
171.00	Mounting Frame	3	Round Sector Frame
157.00	Panel	3	Argus LLPX310R
157.00	Panel	1	Motorola PTP58600
157.00	Dish	1	Andrew Microwaves PX2F-52-NXA
157.00	Dish	1	Andrew VHLP800-11-2WH
157.00		1	DragonWave Horizon DUO
157.00		3	Samsung 2.5GHz nRRHv2
157.00	Straight Arm	1	Side Arms
140.00	Other	1	Torque Arms
130.00	Mounting Frame	3	Flat Light Sector Frame
91.00	Yagi	1	Andrew DB437
81.00	Yagi	1	Decibel DB230E
10.00	Yagi	1	PCTEL MYA4503
4.00	Dish	1	4' Std. Dish

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Job Information			
Tower : 36075		Location : Lee S Summit #1b, MO	
Code : ANSI/TIA-222-G		Shape : Triangle	Base Width : 3.50 ft
Client : SPRINT NEXTEL			

Linear Appurtenance				
Elev (ft)		Qty	Description	
From	To			
0.00	480.00	1	7/8" Coax	
0.00	475.00	1	7/8" Coax	
0.00	457.00	1	1 5/8" Coax	
0.00	427.00	1	3" Coax	
0.00	427.00	1	1 5/8" Coax	
0.00	420.50	1	0.19" (4.9mm) RG-58/	
0.00	419.00	1	0.24" (6mm) Cat 5	
0.00	417.00	1	0.63" (15.9mm) Cable	
0.00	417.00	1	0.24" (6mm) Fiber	
0.00	417.00	1	0.24" (6mm) Cat 5	
0.00	407.00	2	0.24" (6mm) Cat 5	
0.00	397.00	3	1 5/8" Coax	
0.00	355.00	1	1/2" Coax	
0.00	330.00	1	7/8" Coax	
0.00	320.00	2	1 1/4" Coax	
0.00	189.00	1	1/2" Coax	
0.00	180.00	3	1 1/4" Hybriflex Cab	
0.00	171.00	9	1 5/8" Coax	
0.00	157.00	3	3/8" Coax	
0.00	157.00	2	2" conduit	
0.00	157.00	1	1/2" Coax	
0.00	157.00	3	1/2" Coax	
0.00	157.00	1	0.24" (6mm) Cat 5	
0.00	91.00	1	1/2" Coax	
0.00	81.00	1	1/2" Coax	
0.00	4.00	1	3/8" Coax	

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Job Information

Tower : 36075	Location : Lee S Summit #1b, MO
Code : ANSI/TIA-222-G	Shape : Triangle Base Width : 3.50 ft
Client : SPRINT NEXTEL	

Guy Anchor Design Loads

Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (kip)	Shear (kip)
143.00	0.00	0	43.27	43.02
143.00	0.00	240	43.31	43.05
143.00	0.00	120	43.25	43.00
299.00	0.00	0	72.00	69.21
299.00	0.00	240	71.92	69.25
299.00	0.00	120	71.92	69.25

Global Base Foundation Design Loads

Vertical (kip)	Horizontal (kip)
610.42	1.90

Site Number: 36075	Code: ANSI/TIA-222-G	© 2007 - 2017 by ATC IP LLC. All rights reserved.
Site Name: Lee S Summit #1b, MO	Engineering Number: OAA715533_C3_02	10/24/2017 9:09:21 PM
Customer: SPRINT NEXTEL		

Analysis Parameters

Location:	JACKSON County, MO	Height (ft):	480
Code:	ANSI/TIA-222-G	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	3.50
Tower Manufacturer:	Allied Tower	Top Face Width (ft):	3.50
Tower Type:	Guyed		

Ice & Wind Parameters

Structure Class:	II	Design Windspeed Without Ice:	90 mph
Exposure Category:	C	Design Windspeed With Ice:	40 mph
Topographic Category:	1	Operational Windspeed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	1.00 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	1.05		
T_L (sec):	12	p :	1.3
S_S :	0.113	S_1 :	0.066
F_a :	1.600	F_v :	2.400
S_{ds} :	0.121	S_{d1} :	0.106
		C_S :	0.040
		C_S , Max:	0.040
		C_S , Min:	0.030

Load Cases

1.2D + 1.6W Normal	90 mph Normal to Face with No Ice
1.2D + 1.6W 60 deg	90 mph 60 degree with No Ice
1.2D + 1.6W 90 deg	90 mph 90 degree with No Ice
1.2D + 1.6W 120 deg	90 mph 120 degree with No Ice
1.2D + 1.6W 180 deg	90 mph 180 degree with No Ice
1.2D + 1.6W 210 deg	90 mph 210 degree with No Ice
1.2D + 1.6W 240 deg	90 mph 240 degree with No Ice
1.2D + 1.6W 300 deg	90 mph 300 degree with No Ice
1.2D + 1.6W 330 deg	90 mph 330 degree with No Ice
1.2D + 1.0Di + 1.0Wi Normal	40 mph Normal with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 60 deg	40 mph 60 deg with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	40 mph 90 deg with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 120 deg	40 mph 120 deg with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 180 deg	40 mph 180 deg with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 210 deg	40 mph 210 deg with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 240 deg	40 mph 240 deg with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 300 deg	40 mph 300 deg with 1 in Radial Ice
1.2D + 1.0Di + 1.0Wi 330 deg	40 mph 330 deg with 1 in Radial Ice
(1.2 + 0.2S _{ds}) * DL + E Normal	Seismic Normal
(1.2 + 0.2S _{ds}) * DL + E 60 deg	Seismic 60 deg
(1.2 + 0.2S _{ds}) * DL + E 90 deg	Seismic 90 deg

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Analysis Parameters

(1.2 + 0.2Sds) * DL + E 120 deg	Seismic 120 deg
(1.2 + 0.2Sds) * DL + E 180 deg	Seismic 180 deg
(1.2 + 0.2Sds) * DL + E 210 deg	Seismic 210 deg
(1.2 + 0.2Sds) * DL + E 240 deg	Seismic 240 deg
(1.2 + 0.2Sds) * DL + E 300 deg	Seismic 300 deg
(1.2 + 0.2Sds) * DL + E 330 deg	Seismic 330 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 60 deg	Serviceability - 60 mph Wind 60 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg
1.0D + 1.0W Service 120 deg	Serviceability - 60 mph Wind 120 deg
1.0D + 1.0W Service 180 deg	Serviceability - 60 mph Wind 180 deg
1.0D + 1.0W Service 210 deg	Serviceability - 60 mph Wind 210 deg
1.0D + 1.0W Service 240 deg	Serviceability - 60 mph Wind 240 deg
1.0D + 1.0W Service 300 deg	Serviceability - 60 mph Wind 300 deg
1.0D + 1.0W Service 330 deg	Serviceability - 60 mph Wind 330 deg

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Tower LoadingDiscrete Appurtenance Properties 1.2D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
480.0	Decibel DB264	1	36	5.6	20.0	0.0	0.0	0.80	1.00	30.0	5776.5	31.43	193	52
475.0	Decibel DB264	1	36	5.6	21.5	0.0	0.0	0.80	1.00	10.0	1905.2	31.10	191	52
475.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.0	30.97	1272	1728
460.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	30.76	627	720
457.0	13' Omni	1	40	3.9	13.0	3.0	3.0	1.00	1.00	6.0	980.2	30.80	163	58
457.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	30.72	217	216
427.0	Decibel DB408	1	17	2.9	9.4	0.0	0.0	1.00	1.00	4.0	478.6	30.34	120	24
427.0	11' Omni	1	40	3.3	11.0	3.0	3.0	1.00	1.00	5.5	749.5	30.36	136	58
427.0	Round Side Arm	2	150	5.2	0.0	0.0	0.0	1.00	0.90	0.0	0.0	30.28	385	432
420.5	Panasonic VIC100	1	1	0.1	0.3	3.5	3.5	1.00	1.00	0.0	0.0	30.18	3	1
420.5	Stand-Off	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	30.18	103	108
419.0	Andrew Microwaves	1	185	40.1	6.4	76.3	33.7	1.00	1.00	0.0	0.0	30.16	1643	266
417.0	30" x 23" BOB	1	100	6.7	2.5	23.0	8.0	1.00	1.00	0.0	0.0	30.13	275	144
417.0	Andrew VHLP4-11W	1	88	16.7	4.1	49.3	27.4	1.00	1.00	0.0	0.0	30.13	685	127
407.0	Motorola 5780AP	4	14	3.1	2.4	8.3	11.0	1.00	0.88	0.0	0.0	29.98	442	78
397.0	13' Omni	2	40	3.9	13.0	3.0	3.0	1.00	1.00	6.0	1904.0	29.91	317	115
397.0	Round Side Arm	2	150	5.2	0.0	0.0	0.0	1.00	0.90	0.0	0.0	29.82	380	432
355.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	29.13	206	216
355.0	Decibel DB224-A	1	35	5.7	21.3	0.0	0.0	1.00	1.00	10.0	2251.2	29.30	225	50
330.0	Andrew DB420D-B	1	35	4.5	19.7	0.0	0.0	1.00	1.00	9.0	1599.4	28.84	178	50
330.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	28.68	203	216
320.0	13' Omni	2	40	3.9	13.0	3.0	3.0	1.00	1.00	6.0	1820.9	28.61	303	115
320.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	28.50	202	216
300.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	28.11	573	720
220.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	26.34	537	720
189.0	Decibel DB224-FAA	1	38	4.9	23.3	0.0	0.0	1.00	1.00	11.0	1888.3	25.81	172	55
189.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	25.51	180	216
180.0	Ericsson RRUS 31	3	56	1.6	1.4	11.8	9.3	0.80	0.50	0.0	0.0	25.25	67	242
180.0	Ericsson RRUS-11	3	54	2.5	1.4	17.8	9.2	0.80	0.67	0.0	0.0	25.25	139	233
180.0	Ericsson RRUS82 w/	3	62	3.0	2.0	15.0	7.0	0.80	0.67	0.0	0.0	25.25	165	268
180.0	Commscope	3	53	8.4	6.0	12.6	6.7	0.80	0.67	0.0	0.0	25.25	464	229
180.0	Commscope LDX-	3	46	11.1	8.4	10.6	5.2	0.80	0.68	0.0	0.0	25.25	620	200
180.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.0	25.25	1037	1728
171.0	Decibel DB844H90E-	9	14	3.7	4.0	6.5	8.0	0.80	0.74	0.0	0.0	24.97	675	181
171.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	24.97	825	1296
157.0	DragonWave	1	7	0.2	0.4	7.5	7.5	0.80	0.50	0.0	0.0	24.53	3	10
157.0	Motorola PTP58600	1	12	2.0	1.2	14.5	3.8	0.80	0.64	0.0	0.0	24.53	35	17
157.0	Samsung 2.5GHz	3	51	2.9	1.8	13.8	8.2	0.80	0.67	0.0	0.0	24.53	156	219
157.0	Argus LLPX310R	3	29	4.8	3.5	11.8	4.5	0.80	0.73	0.0	0.0	24.53	282	124
157.0	Andrew Microwaves	1	40	5.2	2.0	24.0	0.0	0.80	1.00	0.0	0.0	24.53	140	58
157.0	Andrew VHLP800-11-	1	49	6.7	2.6	31.2	0.0	0.80	1.00	0.0	0.0	24.53	179	71
157.0	Side Arms	1	560	8.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	24.53	284	806
140.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	23.94	488	720
130.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.0	23.57	968	1728
91.00	Andrew DB437	1	7	0.8	1.2	35.0	0.0	1.00	1.00	0.0	0.0	21.87	24	10
81.00	Decibel DB230E	1	27	3.7	6.5	79.2	2.0	1.00	1.00	0.0	0.0	21.34	106	39
10.00	PCTEL MYA4503	1	2	0.3	1.9	1.0	1.0	1.00	1.00	0.0	0.0	14.98	6	2
4.00	4' Std. Dish	1	188	20.9	4.0	48.0	0.0	1.00	1.00	0.0	0.0	14.98	426	271
Totals		85	10860	626.4										

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

10/24/2017 9:09:21 PM

Customer: SPRINT NEXTEL

Tower Loading**Discrete Appurtenance Properties** 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
480.0	Decibel DB264	1	296	31.4	20.0	0.0	0.0	0.80	1.00	30.0	3976.8	6.21	133	364
475.0	Decibel DB264	1	296	31.4	21.5	0.0	0.0	0.80	1.00	10.0	1311.6	6.14	131	364
475.0	Flat Light Sector	3	851	40.5	0.0	0.0	0.0	0.75	0.75	0.0	0.0	6.12	355	3351
460.0	Torque Arms	1	1019	30.6	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.08	158	1343
457.0	13' Omni	1	186	10.8	13.0	3.0	3.0	1.00	1.00	6.0	335.9	6.08	56	233
457.0	Round Side Arm	1	259	9.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.07	48	347
427.0	Decibel DB408	1	201	16.6	9.4	0.0	0.0	1.00	1.00	4.0	338.1	5.99	85	245
427.0	11' Omni	1	164	9.2	11.0	3.0	3.0	1.00	1.00	5.5	256.8	6.00	47	206
427.0	Round Side Arm	2	259	9.2	0.0	0.0	0.0	1.00	0.90	0.0	0.0	5.98	84	693
420.5	Panasonic VIC100	1	7	0.3	0.3	3.5	3.5	1.00	1.00	0.0	0.0	5.96	2	9
420.5	Stand-Off	1	129	4.4	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.96	22	173
419.0	Andrew Microwaves	1	1359	45.5	6.4	76.3	33.7	1.00	1.00	0.0	0.0	5.96	230	1675
417.0	30" x 23" BOB	1	296	9.4	2.5	23.0	8.0	1.00	1.00	0.0	0.0	5.95	48	379
417.0	Andrew VHLP4-11W	1	585	20.2	4.1	49.3	27.4	1.00	1.00	0.0	0.0	5.95	102	723
407.0	Motorola 5780AP	4	130	5.1	2.4	8.3	11.0	1.00	0.88	0.0	0.0	5.92	91	635
397.0	13' Omni	2	184	10.7	13.0	3.0	3.0	1.00	1.00	6.0	646.5	5.91	108	462
397.0	Round Side Arm	2	258	9.2	0.0	0.0	0.0	1.00	0.90	0.0	0.0	5.89	83	690
355.0	Round Side Arm	1	256	9.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.75	45	344
355.0	Decibel DB224-A	1	290	31.2	21.3	0.0	0.0	1.00	1.00	10.0	1536.2	5.79	154	356
330.0	Andrew DB420D-B	1	234	20.1	19.7	0.0	0.0	1.00	1.00	9.0	875.0	5.70	97	290
330.0	Round Side Arm	1	256	9.1	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.67	44	343
320.0	13' Omni	2	181	10.6	13.0	3.0	3.0	1.00	1.00	6.0	609.3	5.65	102	454
320.0	Round Side Arm	1	255	9.1	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.63	44	342
300.0	Torque Arms	1	997	29.9	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.55	141	1317
220.0	Torque Arms	1	981	29.4	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.20	130	1298
189.0	Decibel DB224-FAA	1	258	29.9	23.3	0.0	0.0	1.00	1.00	11.0	1425.5	5.10	130	318
189.0	Round Side Arm	1	250	8.9	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.04	38	336
180.0	Ericsson RRUS 31	3	157	2.4	1.4	11.8	9.3	0.80	0.50	0.0	0.0	4.99	12	605
180.0	Ericsson RRUS-11	3	184	3.4	1.4	17.8	9.2	0.80	0.67	0.0	0.0	4.99	23	703
180.0	Ericsson RRUS82 w/	3	194	4.0	2.0	15.0	7.0	0.80	0.67	0.0	0.0	4.99	27	744
180.0	Commscope	3	346	10.2	6.0	12.6	6.7	0.80	0.67	0.0	0.0	4.99	70	1283
180.0	Commscope LDX-	3	387	13.5	8.4	10.6	5.2	0.80	0.68	0.0	0.0	4.99	93	1426
180.0	Flat Light Sector	3	807	38.3	0.0	0.0	0.0	0.75	0.75	0.0	0.0	4.99	274	3194
171.0	Decibel DB844H90E-	9	177	4.3	4.0	6.5	8.0	0.80	0.74	0.0	0.0	4.93	95	1938
171.0	Round Sector Frame	3	798	36.8	0.0	0.0	0.0	0.75	0.75	0.0	0.0	4.93	260	3088
157.0	DragonWave	1	24	0.5	0.4	7.5	7.5	0.80	0.50	0.0	0.0	4.85	1	31
157.0	Motorola PTP58600	1	65	3.4	1.2	14.5	3.8	0.80	0.64	0.0	0.0	4.85	7	81
157.0	Samsung 2.5GHz	3	146	4.5	1.8	13.8	8.2	0.80	0.67	0.0	0.0	4.85	30	562
157.0	Argus LLPX310R	3	149	7.3	3.5	11.8	4.5	0.80	0.73	0.0	0.0	4.85	53	557
157.0	Andrew Microwaves	1	114	7.3	2.0	24.0	0.0	0.80	1.00	0.0	0.0	4.85	24	146
157.0	Andrew VHLP800-11-	1	233	8.7	2.6	31.2	0.0	0.80	1.00	0.0	0.0	4.85	29	292
157.0	Side Arms	1	1185	18.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	4.85	74	1557
140.0	Torque Arms	1	959	28.8	0.0	0.0	0.0	1.00	1.00	0.0	0.0	4.73	116	1271
130.0	Flat Light Sector	3	796	37.8	0.0	0.0	0.0	0.75	0.75	0.0	0.0	4.66	252	3155
91.00	Andrew DB437	1	26	4.1	1.2	35.0	0.0	1.00	1.00	0.0	0.0	4.32	15	32
81.00	Decibel DB230E	1	152	17.5	6.5	79.2	2.0	1.00	1.00	0.0	0.0	4.22	63	189
10.00	PCTEL MYA4503	1	14	1.5	1.9	1.0	1.0	1.00	1.00	0.0	0.0	2.96	4	17
4.00	4' Std. Dish	1	383	23.7	4.0	48.0	0.0	1.00	1.00	0.0	0.0	2.96	60	504
Totals		85	30048	1243.9										

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

10/24/2017 9:09:21 PM

Customer: SPRINT NEXTEL

Tower LoadingDiscrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
480.0	Decibel DB264	1	36	5.6	20.0	0.0	0.0	0.80	1.00	30.0	1604.6	13.97	53	36
475.0	Decibel DB264	1	36	5.6	21.5	0.0	0.0	0.80	1.00	10.0	529.2	13.82	53	36
475.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.0	13.76	353	1200
460.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	13.67	174	500
457.0	13' Omni	1	40	3.9	13.0	3.0	3.0	1.00	1.00	6.0	272.3	13.69	45	40
457.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	13.65	60	150
427.0	Decibel DB408	1	17	2.9	9.4	0.0	0.0	1.00	1.00	4.0	133.0	13.48	33	17
427.0	11' Omni	1	40	3.3	11.0	3.0	3.0	1.00	1.00	5.5	208.2	13.49	38	40
427.0	Round Side Arm	2	150	5.2	0.0	0.0	0.0	1.00	0.90	0.0	0.0	13.46	107	300
420.5	Panasonic VIC100	1	1	0.1	0.3	3.5	3.5	1.00	1.00	0.0	0.0	13.41	1	1
420.5	Stand-Off	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	13.41	29	75
419.0	Andrew Microwaves	1	185	40.1	6.4	76.3	33.7	1.00	1.00	0.0	0.0	13.40	456	185
417.0	30" x 23" BOB	1	100	6.7	2.5	23.0	8.0	1.00	1.00	0.0	0.0	13.39	76	100
417.0	Andrew VHLP4-11W	1	88	16.7	4.1	49.3	27.4	1.00	1.00	0.0	0.0	13.39	190	88
407.0	Motorola 5780AP	4	14	3.1	2.4	8.3	11.0	1.00	0.88	0.0	0.0	13.32	123	54
397.0	13' Omni	2	40	3.9	13.0	3.0	3.0	1.00	1.00	6.0	528.9	13.30	88	80
397.0	Round Side Arm	2	150	5.2	0.0	0.0	0.0	1.00	0.90	0.0	0.0	13.25	105	300
355.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	12.94	57	150
355.0	Decibel DB224-A	1	35	5.7	21.3	0.0	0.0	1.00	1.00	10.0	625.3	13.02	63	35
330.0	Andrew DB420D-B	1	35	4.5	19.7	0.0	0.0	1.00	1.00	9.0	444.3	12.82	49	35
330.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	12.75	56	150
320.0	13' Omni	2	40	3.9	13.0	3.0	3.0	1.00	1.00	6.0	505.8	12.71	84	80
320.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	12.67	56	150
300.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	12.49	159	500
220.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	11.70	149	500
189.0	Decibel DB224-FAA	1	38	4.9	23.3	0.0	0.0	1.00	1.00	11.0	524.5	11.47	48	38
189.0	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	11.34	50	150
180.0	Ericsson RRUS 31	3	56	1.6	1.4	11.8	9.3	0.80	0.50	0.0	0.0	11.22	19	168
180.0	Ericsson RRUS-11	3	54	2.5	1.4	17.8	9.2	0.80	0.67	0.0	0.0	11.22	39	162
180.0	Ericsson RRUS82 w/	3	62	3.0	2.0	15.0	7.0	0.80	0.67	0.0	0.0	11.22	46	186
180.0	Commscope	3	53	8.4	6.0	12.6	6.7	0.80	0.67	0.0	0.0	11.22	129	159
180.0	Commscope LDX-	3	46	11.1	8.4	10.6	5.2	0.80	0.68	0.0	0.0	11.22	172	139
180.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.0	11.22	288	1200
171.0	Decibel DB844H90E-	9	14	3.7	4.0	6.5	8.0	0.80	0.74	0.0	0.0	11.10	188	126
171.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	11.10	229	900
157.0	DragonWave	1	7	0.2	0.4	7.5	7.5	0.80	0.50	0.0	0.0	10.90	1	7
157.0	Motorola PTP58600	1	12	2.0	1.2	14.5	3.8	0.80	0.64	0.0	0.0	10.90	10	12
157.0	Samsung 2.5GHz	3	51	2.9	1.8	13.8	8.2	0.80	0.67	0.0	0.0	10.90	43	152
157.0	Argus LLPX310R	3	29	4.8	3.5	11.8	4.5	0.80	0.73	0.0	0.0	10.90	78	86
157.0	Andrew Microwaves	1	40	5.2	2.0	24.0	0.0	0.80	1.00	0.0	0.0	10.90	39	40
157.0	Andrew VHLP800-11-	1	49	6.7	2.6	31.2	0.0	0.80	1.00	0.0	0.0	10.90	50	49
157.0	Side Arms	1	560	8.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	10.90	79	560
140.0	Torque Arms	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	10.64	136	500
130.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.0	10.48	269	1200
91.00	Andrew DB437	1	7	0.8	1.2	35.0	0.0	1.00	1.00	0.0	0.0	9.72	7	7
81.00	Decibel DB230E	1	27	3.7	6.5	79.2	2.0	1.00	1.00	0.0	0.0	9.48	30	27
10.00	PCTEL MYA4503	1	2	0.3	1.9	1.0	1.0	1.00	1.00	0.0	0.0	6.66	2	2
4.00	4' Std. Dish	1	188	20.9	4.0	48.0	0.0	1.00	1.00	0.0	0.0	6.66	118	188
Totals		85	10860	626.4										

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

10/24/2017 9:09:21 PM

Customer: SPRINT NEXTEL

Tower LoadingLinear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	480.0	7/8" Coax	1	1.09	0.33	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	475.0	7/8" Coax	1	1.09	0.33	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	457.0	1 5/8" Coax	1	1.98	0.82	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	427.0	1 5/8" Coax	1	1.98	0.82	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	427.0	3" Coax	1	3.02	1.78	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	420.5	0.19" (4.9mm) RG-	1	0.19	0.25	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	419.0	0.24" (6mm) Cat 5	1	0.24	0.04	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	417.0	0.24" (6mm) Cat 5	1	0.24	0.04	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	417.0	0.24" (6mm) Fiber	1	0.24	0.03	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	417.0	0.63" (15.9mm)	1	0.63	0.31	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	407.0	0.24" (6mm) Cat 5	2	0.24	0.04	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	397.0	1 5/8" Coax	3	1.98	0.82	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	355.0	1/2" Coax	1	0.63	0.15	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	330.0	7/8" Coax	1	1.09	0.33	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	320.0	1 1/4" Coax	2	1.55	0.63	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	189.0	1/2" Coax	1	0.63	0.15	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	180.0	1 1/4" Hybriflex	3	1.54	1.00	0	Lin App	Individual	0.00	N	0.00	1.00	0.00
0.00	171.0	1 5/8" Coax	9	1.98	0.82	0	Lin App	Individual	0.00	N	0.00	1.00	0.00
0.00	157.0	0.24" (6mm) Cat 5	1	0.24	0.04	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
0.00	157.0	1/2" Coax	3	0.63	0.15	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
0.00	157.0	1/2" Coax	1	0.63	0.15	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
0.00	157.0	2" conduit	2	2.38	3.65	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	157.0	3/8" Coax	3	0.44	0.08	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
0.00	91.00	1/2" Coax	1	0.63	0.15	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	81.00	1/2" Coax	1	0.63	0.15	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	4.00	3/8" Coax	1	0.44	0.08	0	Lin App	Individual	0.00	N	1.00	1.00	0.00

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Equivalent Lateral Force Method

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

Spectral Response Acceleration for Short Period (S_s):	0.11
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
Long-Period Transition Period (T_L - Seconds):	12
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	2.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.12
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_s :	0.04
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	1.05
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.28
Total Unfactored Dead Load:	57.91 k
Seismic Base Shear (E):	3.02 k

LoadCase (1.2 + 0.2Sds) * DL + E**Seismic**

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
25	470.00	1,331	3,415,67	0.056	170	1,629
24	450.00	1,346	3,269,18	0.054	163	1,648
23	430.00	1,367	3,132,57	0.052	156	1,673
22	410.00	1,413	3,048,05	0.050	152	1,730
21	390.00	1,457	2,948,73	0.049	147	1,784
20	370.00	1,655	3,131,27	0.052	156	2,026
19	350.00	1,658	2,920,91	0.048	146	2,029
18	330.00	1,662	2,716,26	0.045	135	2,034
17	310.00	1,690	2,551,02	0.042	127	2,069
16	290.00	1,833	2,540,64	0.042	127	2,243
15	270.00	1,833	2,319,24	0.038	116	2,243
14	250.00	1,833	2,102,32	0.035	105	2,243
13	230.00	1,833	1,890,14	0.031	94	2,243
12	210.00	2,131	1,956,84	0.032	98	2,608
11	190.00	2,132	1,723,34	0.028	86	2,610
10	170.00	2,275	1,595,50	0.026	80	2,785
9	150.00	2,481	1,482,84	0.024	74	3,036
8	130.00	2,437	1,213,79	0.020	61	2,983
7	110.00	2,437	980,791	0.016	49	2,983
6	90.00	2,439	759,799	0.013	38	2,986
5	70.00	2,462	556,547	0.009	28	3,014
4	50.00	2,443	359,530	0.006	18	2,991
3	30.00	2,443	187,357	0.003	9	2,991
2	13.40	1,623	44,482	0.001	2	1,986

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Equivalent Lateral Force Method

1	3.40	841	4,004	0.000	0	1,030
Decibel DB264	480.00	36	94,927	0.002	5	44
Decibel DB264	475.00	36	93,667	0.002	5	44
Flat Light Sector Frame	475.00	1,200	3,122,23	0.051	156	1,469
Torque Arms	460.00	500	1,248,74	0.021	62	612
13' Omni	457.00	40	99,069	0.002	5	49
Round Side Arm	457.00	150	371,508	0.006	19	184
Decibel DB408	427.00	17	38,610	0.001	2	21
11' Omni	427.00	40	90,847	0.001	5	49
Round Side Arm	427.00	300	681,355	0.011	34	367
Panasonic VIC100 (3.9")	420.50	1	1,336	0.000	0	1
Stand-Off	420.50	75	167,037	0.003	8	92
Andrew Microwaves VHLP6-6W	419.00	185	410,151	0.007	20	226
30" x 23" BOB	417.00	100	220,354	0.004	11	122
Andrew VHLP4-11W	417.00	88	193,911	0.003	10	108
Motorola 5780AP	407.00	54	115,362	0.002	6	66
13' Omni	397.00	80	165,567	0.003	8	98
Round Side Arm	397.00	300	620,878	0.010	31	367
Round Side Arm	355.00	150	269,162	0.004	13	184
Decibel DB224-A	355.00	35	62,804	0.001	3	43
Andrew DB420D-B	330.00	35	57,217	0.001	3	43
Round Side Arm	330.00	150	245,216	0.004	12	184
13' Omni	320.00	80	125,746	0.002	6	98
Round Side Arm	320.00	150	235,775	0.004	12	184
Torque Arms	300.00	500	723,791	0.012	36	612
Torque Arms	220.00	500	487,244	0.008	24	612
Decibel DB224-FAA	189.00	38	30,507	0.001	2	47
Round Side Arm	189.00	150	120,422	0.002	6	184
Ericsson RRUS 31	180.00	168	126,959	0.002	6	206
Ericsson RRUS-11 800 MHz	180.00	162	122,206	0.002	6	198
Ericsson RRUS82 w/ Solarshield	180.00	186	140,537	0.002	7	228
Commscope HHT465B-PF-2XR	180.00	159	119,943	0.002	6	195
Commscope LDX-6516DS-VTM	180.00	139	104,781	0.002	5	170
Flat Light Sector Frame	180.00	1,200	905,232	0.015	45	1,469
Decibel DB844H90E-XY	171.00	126	89,028	0.001	4	154
Round Sector Frame	171.00	900	635,913	0.010	32	1,102
DragonWave Horizon DUO (Radio)	157.00	7	4,435	0.000	0	9
Motorola PTP58600	157.00	12	7,667	0.000	0	15
Samsung 2.5GHz nRRHv2	157.00	152	96,372	0.002	5	186
Argus LLPX310R	157.00	86	54,364	0.001	3	105
Andrew Microwaves PX2F-52-NXA	157.00	40	25,344	0.000	1	49
Andrew VHLP800-11-2WH	157.00	49	31,047	0.001	2	60
Side Arms	157.00	560	354,822	0.006	18	685
Torque Arms	140.00	500	273,708	0.005	14	612
Flat Light Sector Frame	130.00	1,200	597,631	0.010	30	1,469
Andrew DB437	91.00	7	2,212	0.000	0	9
Decibel DB230E	81.00	27	7,353	0.000	0	33
PCTEL MYA4503	10.00	2	28	0.000	0	2
4' Std. Dish	4.00	188	1,102	0.000	0	230
		57,914	60,645,006	1.000	3,023	70,893

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Equivalent Modal Analysis Method

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

Spectral Response Acceleration for Short Period (S_s):	0.11
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
Importance Factor (I_e):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	2.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.12
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Period Based on Rayleigh Method (sec):	1.05
Redundancy Factor (p):	1.30

LoadCase (1.2 + 0.2Sds) * DL + E

Seismic

Section	Height Above Base (ft)	Weight (lb)	a	b	c	S_{az}	Horizontal Force (lb)	Vertical Force (lb)
25	470.00	1,331	1.812	1.594	0.998	0.264	183	1,629
24	450.00	1,346	1.661	0.980	0.756	0.213	149	1,648
23	430.00	1,367	1.517	0.543	0.563	0.172	122	1,673
22	410.00	1,413	1.379	0.245	0.410	0.138	101	1,730
21	390.00	1,457	1.248	0.054	0.292	0.112	85	1,784
20	370.00	1,655	1.123	-0.056	0.201	0.092	79	2,026
19	350.00	1,658	1.005	-0.109	0.134	0.078	67	2,029
18	330.00	1,662	0.893	-0.122	0.085	0.068	59	2,034
17	310.00	1,690	0.788	-0.110	0.051	0.061	54	2,069
16	290.00	1,833	0.690	-0.084	0.028	0.056	53	2,243
15	270.00	1,833	0.598	-0.052	0.014	0.052	50	2,243
14	250.00	1,833	0.513	-0.021	0.008	0.048	46	2,243
13	230.00	1,833	0.434	0.007	0.006	0.044	42	2,243
12	210.00	2,131	0.362	0.030	0.008	0.040	45	2,608
11	190.00	2,132	0.296	0.046	0.013	0.036	40	2,610
10	170.00	2,275	0.237	0.057	0.019	0.032	37	2,785
9	150.00	2,481	0.185	0.065	0.025	0.027	35	3,036
8	130.00	2,437	0.139	0.069	0.032	0.023	30	2,983
7	110.00	2,437	0.099	0.071	0.037	0.020	25	2,983
6	90.00	2,439	0.066	0.072	0.041	0.017	21	2,986
5	70.00	2,462	0.040	0.070	0.042	0.014	18	3,014
4	50.00	2,443	0.021	0.064	0.038	0.011	14	2,991
3	30.00	2,443	0.007	0.050	0.029	0.008	10	2,991
2	13.40	1,623	0.001	0.028	0.015	0.004	4	1,986
1	3.40	841	0.000	0.008	0.004	0.001	1	1,030
Decibel DB264	480.00	36	1.890	1.980	1.140	0.293	5	44
Decibel DB264	475.00	36	1.851	1.780	1.067	0.278	5	44
Flat Light Sector Frame	475.00	1,200	1.851	1.780	1.067	0.278	174	1,469
Torque Arms	460.00	500	1.736	1.263	0.871	0.238	62	612
13' Omni	457.00	40	1.713	1.173	0.835	0.230	5	49
Round Side Arm	457.00	150	1.713	1.173	0.835	0.230	18	184
Decibel DB408	427.00	17	1.496	0.490	0.538	0.166	1	21
11' Omni	427.00	40	1.496	0.490	0.538	0.166	3	49
Round Side Arm	427.00	300	1.496	0.490	0.538	0.166	26	367
Panasonic VIC100 (3.9")	420.50	1	1.450	0.386	0.486	0.155	0	1
Stand-Off	420.50	75	1.450	0.386	0.486	0.155	6	92
Andrew Microwaves VHLP6-6W	419.00	185	1.440	0.364	0.474	0.152	15	226
30" x 23" BOB	417.00	100	1.426	0.336	0.460	0.149	8	122
Andrew VHLP4-11W	417.00	88	1.426	0.336	0.460	0.149	7	108

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Equivalent Modal Analysis Method

Motorola 5780AP	407.00	54	1.359	0.210	0.391	0.133	4	66
13' Omni	397.00	80	1.293	0.111	0.330	0.120	5	98
Round Side Arm	397.00	300	1.293	0.111	0.330	0.120	19	367
Round Side Arm	355.00	150	1.034	-0.100	0.149	0.081	6	184
Decibel DB224-A	355.00	35	1.034	-0.100	0.149	0.081	1	43
Andrew DB420D-B	330.00	35	0.893	-0.122	0.085	0.068	1	43
Round Side Arm	330.00	150	0.893	-0.122	0.085	0.068	5	184
13' Omni	320.00	80	0.840	-0.118	0.066	0.064	3	98
Round Side Arm	320.00	150	0.840	-0.118	0.066	0.064	5	184
Torque Arms	300.00	500	0.738	-0.098	0.038	0.058	15	612
Torque Arms	220.00	500	0.397	0.019	0.007	0.042	11	612
Decibel DB224-FAA	189.00	38	0.293	0.047	0.013	0.036	1	47
Round Side Arm	189.00	150	0.293	0.047	0.013	0.036	3	184
Ericsson RRUS 31	180.00	168	0.266	0.052	0.015	0.034	3	206
Ericsson RRUS-11 800 MHz	180.00	162	0.266	0.052	0.015	0.034	3	198
Ericsson RRUS82 w/ Solarshield	180.00	186	0.266	0.052	0.015	0.034	3	228
Commscope HHT465B-PF-2XR	180.00	159	0.266	0.052	0.015	0.034	3	195
Commscope LDX-6516DS-VTM	180.00	139	0.266	0.052	0.015	0.034	2	170
Flat Light Sector Frame	180.00	1,200	0.266	0.052	0.015	0.034	21	1,469
Decibel DB844H90E-XY	171.00	126	0.240	0.057	0.018	0.032	2	154
Round Sector Frame	171.00	900	0.240	0.057	0.018	0.032	15	1,102
DragonWave Horizon DUO	157.00	7	0.202	0.063	0.023	0.029	0	9
Motorola PTP58600	157.00	12	0.202	0.063	0.023	0.029	0	15
Samsung 2.5GHz nRRHv2	157.00	152	0.202	0.063	0.023	0.029	2	186
Argus LLPX310R	157.00	86	0.202	0.063	0.023	0.029	1	105
Andrew Microwaves PX2F-52-	157.00	40	0.202	0.063	0.023	0.029	1	49
Andrew VHLP800-11-2WH	157.00	49	0.202	0.063	0.023	0.029	1	60
Side Arms	157.00	560	0.202	0.063	0.023	0.029	8	685
Torque Arms	140.00	500	0.161	0.067	0.029	0.025	7	612
Flat Light Sector Frame	130.00	1,200	0.139	0.069	0.032	0.023	15	1,469
Andrew DB437	91.00	7	0.068	0.072	0.041	0.017	0	9
Decibel DB230E	81.00	27	0.054	0.071	0.042	0.015	0	33
PCTEL MYA4503	10.00	2	0.001	0.022	0.012	0.003	0	2
4' Std. Dish	4.00	188	0.000	0.010	0.005	0.001	0	230
		57,914	52.661	16.874	15.811	5.963	1,871	70,893

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Force/Stress Summary

Section: 1		Base		Bot Elev (ft): 0.00				Height (ft): 6.792							
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	% Controls
LEG	SOL - 3" SOLID	-213.63	1.2D + 1.0Di +	1.77	100	100	100	28.3	50.0	299.96	0	0	0.00	0.00	71 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SOL - 1 1/8" SOLID	-8.29	1.2D + 1.0Di +	2.161	100	100	100	64.5	36.0	25.87	0	0	0.00	0.00	32 Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	% Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0
HORIZ	SOL - 7/8" SOLID	17.62	1.2D + 1.0Di +	36	58	19.48	0	0		0.00		0.00		0.00	90 Member
DIAG		0.00		0	0	0.00	0	0		0.00		0.00		0.00	0

Section: 2		Section 1		Bot Elev (ft): 6.79				Height (ft): 13.208							
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	% Controls
LEG	SOL - 3" SOLID	-203.19	1.2D + 1.0Di +	3.18	100	100	100	50.9	50.0	263.15	0	0	0.00	0.00	77 Member X
HORIZ	SOL - 7/8" SOLID	-0.24	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	3 Member X
DIAG	SOL - 1 1/8" SOLID	-3.33	1.2D + 1.6W 90	4.731	100	100	100	141.2	36.0	11.26	0	0	0.00	0.00	29 Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	% Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0
HORIZ	SOL - 7/8" SOLID	16.86	1.2D + 1.0Di +	36	58	19.48	0	0		0.00		0.00		0.00	86 Member
DIAG	SOL - 1 1/8" SOLID	2.02	1.2D + 1.6W 90	36	58	32.21	0	0		0.00		0.00		0.00	6 Member

Section: 3		Section 2-7		Bot Elev (ft): 20.00				Height (ft): 20.000							
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	% Controls
LEG	SOL - 3" SOLID	-202.10	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	77 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SOL - 1 1/8" SOLID	-2.70	1.2D + 1.0Di +	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	24 Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	% Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0
HORIZ	SOL - 7/8" SOLID	1.76	1.2D + 1.0Di +	36	58	19.48	0	0		0.00		0.00		0.00	9 Member
DIAG	SOL - 1 1/8" SOLID	0.56	1.2D + 1.6W	36	58	32.21	0	0		0.00		0.00		0.00	1 Member

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Force/Stress Summary

Section: 4		Section 2-7		Bot Elev (ft): 40.00				Height (ft): 20.000							
		Pu		Len	Bracing %			F'y	Phic Pn	Num		Shear	Bear		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	Use
LEG	SOL - 3" SOLID	-198.57	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	75 Member X
HORIZ	SOL - 7/8" SOLID	-0.22	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	2 Member X
DIAG	SOL - 1 1/8" SOLID	-3.46	1.2D + 1.6W 60	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	30 Member X
		Pu		Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use			
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls		
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0			
HORIZ	SOL - 7/8" SOLID	1.76	1.2D + 1.0Di +	36	58	19.48	0	0	0.00	0.00	0.00	9	Member		
DIAG	SOL - 1 1/8" SOLID	1.63	1.2D + 1.6W 90	36	58	32.21	0	0	0.00	0.00	0.00	5	Member		

Section: 5		Section 2-7		Bot Elev (ft): 60.00				Height (ft): 20.000							
		Pu		Len	Bracing %			F'y	Phic Pn	Num		Shear	Bear		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	Use
LEG	SOL - 3" SOLID	-192.28	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	73 Member X
HORIZ	SOL - 7/8" SOLID	-0.61	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	8 Member X
DIAG	SOL - 1 1/8" SOLID	-4.58	1.2D + 1.6W	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	41 Member X
		Pu		Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use			
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls		
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0			
HORIZ	SOL - 7/8" SOLID	1.68	1.2D + 1.0Di +	36	58	19.48	0	0	0.00	0.00	0.00	8	Member		
DIAG	SOL - 1 1/8" SOLID	2.35	1.2D + 1.6W	36	58	32.21	0	0	0.00	0.00	0.00	7	Member		

Section: 6		Section 2-7		Bot Elev (ft): 80.00				Height (ft): 20.000							
		Pu		Len	Bracing %			F'y	Phic Pn	Num		Shear	Bear		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	Use
LEG	SOL - 3" SOLID	-185.00	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	70 Member X
HORIZ	SOL - 7/8" SOLID	-0.08	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	1 Member X
DIAG	SOL - 1 1/8" SOLID	-3.45	1.2D + 1.6W	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	30 Member X
		Pu		Fy	Fu	Phit Pn	Num	Num	Shear	Bear	Blk Shear	Use			
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	phit Pn	%	Controls		
LEG		0.00		0	0	0.00	0	0	0.00	0.00		0			
HORIZ	SOL - 7/8" SOLID	1.64	1.2D + 1.0Di +	36	58	19.48	0	0	0.00	0.00	0.00	8	Member		
DIAG	SOL - 1 1/8" SOLID	1.69	1.2D + 1.6W 90	36	58	32.21	0	0	0.00	0.00	0.00	5	Member		

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Force/Stress Summary

Section: 7		Section 2-7		Bot Elev (ft): 100.0				Height (ft): 20.000							
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%
													(kip)	(kip)	Controls
LEG	SOL - 3" SOLID	-181.23	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	69 Member X
HORIZ	SOL - 7/8" SOLID	-0.13	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	1 Member X
DIAG	SOL - 1 1/8" SOLID	-3.02	1.2D + 1.6W 60	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	27 Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%
												(kip)	(kip)		Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0
HORIZ	SOL - 7/8" SOLID	1.61	1.2D + 1.0Di +	36	58	19.48	0	0		0.00		0.00	0.00		8 Member
DIAG	SOL - 1 1/8" SOLID	1.31	1.2D + 1.6W 90	36	58	32.21	0	0		0.00		0.00	0.00		4 Member

Section: 8		Section 2-7		Bot Elev (ft): 120.0				Height (ft): 20.000							
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%
													(kip)	(kip)	Controls
LEG	SOL - 3" SOLID	-176.33	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	67 Member X
HORIZ	SOL - 7/8" SOLID	-3.75	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	49 Member X
DIAG	SOL - 1 1/8" SOLID	-8.17	1.2D + 1.0Di +	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	73 Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%
												(kip)	(kip)		Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0
HORIZ	SOL - 7/8" SOLID	6.79	1.2D + 1.6W 90	36	58	19.48	0	0		0.00		0.00	0.00		34 Member
DIAG	SOL - 1 1/8" SOLID	3.68	1.2D + 1.6W	36	58	32.21	0	0		0.00		0.00	0.00		11 Member

Section: 9		Section 8-11		Bot Elev (ft): 140.0				Height (ft): 20.000							
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%
													(kip)	(kip)	Controls
LEG	SOL - 3" SOLID	-163.76	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	62 Member X
HORIZ	SOL - 7/8" SOLID	-3.65	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	48 Member X
DIAG	SOL - 1 1/4" SOLID	-8.84	1.2D + 1.6W 90	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	52 Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%
												(kip)	(kip)		Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0
HORIZ	SOL - 7/8" SOLID	4.98	1.2D + 1.6W 90	36	58	19.48	0	0		0.00		0.00	0.00		25 Member
DIAG	SOL - 1 1/4" SOLID	8.16	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00	0.00		20 Member

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Force/Stress Summary

Section: 10		Section 8-11		Bot Elev (ft): 160.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 3" SOLID	-161.23	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	61	Member X
HORIZ	SOL - 7/8" SOLID	-0.91	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	12	Member X
DIAG	SOL - 1 1/4" SOLID	-6.00	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	35	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
										(kip)		(kip)	(kip)			
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SOL - 7/8" SOLID	1.56	1.2D + 1.6W	36	58	19.48	0	0		0.00		0.00		0.00	8	Member
DIAG	SOL - 1 1/4" SOLID	4.76	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00		0.00	11	Member

Section: 11		Section 8-11		Bot Elev (ft): 180.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 3" SOLID	-158.27	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	60	Member X
HORIZ	SOL - 7/8" SOLID	-0.39	1.2D + 1.6W 90	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	5	Member X
DIAG	SOL - 1 1/4" SOLID	-3.39	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	20	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
										(kip)		(kip)	(kip)			
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SOL - 7/8" SOLID	1.58	1.2D + 1.0Di +	36	58	19.48	0	0		0.00		0.00		0.00	8	Member
DIAG	SOL - 1 1/4" SOLID	2.66	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00		0.00	6	Member

Section: 12		Section 8-11		Bot Elev (ft): 200.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 3" SOLID	-153.08	1.2D + 1.0Di +	3.21	100	100	100	51.3	50.0	262.36	0	0	0.00	0.00	58	Member X
HORIZ	SOL - 7/8" SOLID	-1.51	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	20	Member X
DIAG	SOL - 1 1/4" SOLID	-7.88	1.2D + 1.0Di +	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	46	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
										(kip)		(kip)	(kip)			
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SOL - 7/8" SOLID	4.41	1.2D + 1.6W 90	36	58	19.48	0	0		0.00		0.00		0.00	22	Member
DIAG	SOL - 1 1/4" SOLID	3.18	1.2D + 1.6W	36	58	39.76	0	0		0.00		0.00		0.00	8	Member

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Force/Stress Summary

Section: 13		Section 12-15		Bot Elev (ft): 220.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 3/4" SOLID	-128.32	1.2D + 1.0Di +	3.21	100	100	100	56.0	50.0	212.51	0	0	0.00	0.00	60	Member X
HORIZ	SOL - 7/8" SOLID	-1.18	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	15	Member X
DIAG	SOL - 1 1/8" SOLID	-2.62	1.2D + 1.6W 60	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	23	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ SOL - 7/8" SOLID		1.97	1.2D + 1.6W 90	36	58	19.48	0	0		0.00		0.00		0.00	10	Member
DIAG SOL - 1 1/8" SOLID		1.37	1.2D + 1.6W 60	36	58	32.21	0	0		0.00		0.00		0.00	4	Member

Section: 14		Section 12-15		Bot Elev (ft): 240.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 3/4" SOLID	-127.61	1.2D + 1.0Di +	3.21	100	100	100	56.0	50.0	212.51	0	0	0.00	0.00	60	Member X
HORIZ	SOL - 7/8" SOLID	-0.05	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	0	Member X
DIAG	SOL - 1 1/8" SOLID	-1.92	1.2D + 1.6W	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	17	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ SOL - 7/8" SOLID		0.97	1.2D + 1.0Di +	36	58	19.48	0	0		0.00		0.00		0.00	5	Member
DIAG SOL - 1 1/8" SOLID		1.05	1.2D + 1.6W	36	58	32.21	0	0		0.00		0.00		0.00	3	Member

Section: 15		Section 12-15		Bot Elev (ft): 260.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 3/4" SOLID	-124.93	1.2D + 1.0Di +	3.21	100	100	100	56.0	50.0	212.51	0	0	0.00	0.00	58	Member X
HORIZ	SOL - 7/8" SOLID	-0.42	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	5	Member X
DIAG	SOL - 1 1/8" SOLID	-3.55	1.2D + 1.6W	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	31	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ SOL - 7/8" SOLID		1.08	1.2D + 1.6W	36	58	19.48	0	0		0.00		0.00		0.00	5	Member
DIAG SOL - 1 1/8" SOLID		2.66	1.2D + 1.6W	36	58	32.21	0	0		0.00		0.00		0.00	8	Member

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Force/Stress Summary

Section: 16		Section 12-15		Bot Elev (ft): 280.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 3/4" SOLID	-115.26	1.2D + 1.0Di +	3.21	100	100	100	56.0	50.0	212.51	0	0	0.00	0.00	54	Member X
HORIZ	SOL - 7/8" SOLID	-2.58	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	34	Member X
DIAG	SOL - 1 1/8" SOLID	-6.06	1.2D + 1.0Di +	4.748	100	100	100	141.7	36.0	11.18	0	0	0.00	0.00	54	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SOL - 7/8" SOLID	4.70	1.2D + 1.6W 90	36	58	19.48	0	0		0.00		0.00		0.00	24	Member
DIAG	SOL - 1 1/8" SOLID	3.29	1.2D + 1.6W	36	58	32.21	0	0		0.00		0.00		0.00	10	Member

Section: 17		Section 16-19		Bot Elev (ft): 300.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 1/2" SOLID	-96.41	1.2D + 1.0Di +	3.21	100	100	100	61.6	50.0	167.42	0	0	0.00	0.00	57	Member X
HORIZ	SOL - 7/8" SOLID	-1.74	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	23	Member X
DIAG	SOL - 1 1/4" SOLID	-3.95	1.2D + 1.6W 90	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	23	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SOL - 7/8" SOLID	2.59	1.2D + 1.6W 90	36	58	19.48	0	0		0.00		0.00		0.00	13	Member
DIAG	SOL - 1 1/4" SOLID	3.52	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00		0.00	8	Member

Section: 18		Section 16-19		Bot Elev (ft): 320.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 1/2" SOLID	-87.12	1.2D + 1.0Di +	3.21	100	100	100	61.6	50.0	167.42	0	0	0.00	0.00	52	Member X
HORIZ	SOL - 7/8" SOLID	-0.46	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	6	Member X
DIAG	SOL - 1 1/4" SOLID	-2.67	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	15	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	(kip)	phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SOL - 7/8" SOLID	0.88	1.2D + 1.6W	36	58	19.48	0	0		0.00		0.00		0.00	4	Member
DIAG	SOL - 1 1/4" SOLID	1.63	1.2D + 1.6W	36	58	39.76	0	0		0.00		0.00		0.00	4	Member

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Customer: SPRINT NEXTEL

Force/Stress Summary

Section: 19		Section 16-19		Bot Elev (ft): 340.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	SOL - 2 1/2" SOLID	-85.50	1.2D + 1.0Di +	3.21	100	100	100	61.6	50.0	167.42	0	0	0.00	0.00	51	Member X
HORIZ	SOL - 7/8" SOLID	-0.39	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	5	Member X
DIAG	SOL - 1 1/4" SOLID	-1.91	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	11	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
LEG		0.00		0	0	0.00	0	0		0.00		0.00			0	
HORIZ	SOL - 7/8" SOLID	0.79	1.2D + 1.0Di +	36	58	19.48	0	0		0.00		0.00		0.00	4	Member
DIAG	SOL - 1 1/4" SOLID	1.36	1.2D + 1.6W 60	36	58	39.76	0	0		0.00		0.00		0.00	3	Member

Section: 20		Section 16-19		Bot Elev (ft): 360.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	SOL - 2 1/2" SOLID	-80.57	1.2D + 1.0Di +	3.21	100	100	100	61.6	50.0	167.42	0	0	0.00	0.00	48	Member X
HORIZ	SOL - 7/8" SOLID	-3.55	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	47	Member X
DIAG	SOL - 1 1/4" SOLID	-4.59	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	27	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
LEG	SOL - 2 1/2" SOLID	9.23	1.2D + 1.6W 60	50	65	220.95	0	0		0.00		0.00			4	Member
HORIZ	SOL - 7/8" SOLID	5.74	1.2D + 1.6W 60	36	58	19.48	0	0		0.00		0.00		0.00	29	Member
DIAG	SOL - 1 1/4" SOLID	2.09	1.2D + 1.6W 60	36	58	39.76	0	0		0.00		0.00		0.00	5	Member

Section: 21		Section 20-24		Bot Elev (ft): 380.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	%	Controls
LEG	SOL - 2 1/4" SOLID	-58.70	1.2D + 1.6W	3.21	100	100	100	68.4	50.0	127.03	0	0	0.00	0.00	46	Member X
HORIZ	SOL - 7/8" SOLID	-2.61	1.2D + 1.6W 60	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	34	Member X
DIAG	SOL - 1 1/4" SOLID	-5.92	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	35	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
LEG	SOL - 2 1/4" SOLID	9.32	1.2D + 1.6W 60	50	65	178.92	0	0		0.00		0.00			5	Member
HORIZ	SOL - 7/8" SOLID	2.98	1.2D + 1.6W	36	58	19.48	0	0		0.00		0.00		0.00	15	Member
DIAG	SOL - 1 1/4" SOLID	6.25	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00		0.00	15	Member

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Force/Stress Summary

Section: 22		Section 20-24		Bot Elev (ft): 400.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 1/4" SOLID	-48.43	1.2D + 1.0Di +	3.21	100	100	100	68.4	50.0	127.03	0	0	0.00	0.00	38	Member X
HORIZ	SOL - 7/8" SOLID	-1.36	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	18	Member X
DIAG	SOL - 1 1/4" SOLID	-4.30	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	25	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
LEG	SOL - 2 1/4" SOLID	0.19	1.2D + 1.6W 120	50	65	178.92	0	0		0.00		0.00			0	Member
HORIZ	SOL - 7/8" SOLID	1.58	1.2D + 1.6W 120	36	58	19.48	0	0		0.00		0.00	0.00		8	Member
DIAG	SOL - 1 1/4" SOLID	4.32	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00	0.00		10	Member

Section: 23		Section 20-24		Bot Elev (ft): 420.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 1/4" SOLID	-48.44	1.2D + 1.0Di +	3.21	100	100	100	68.4	50.0	127.03	0	0	0.00	0.00	38	Member X
HORIZ	SOL - 7/8" SOLID	-0.65	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	8	Member X
DIAG	SOL - 1 1/4" SOLID	-1.95	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	11	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
LEG	SOL - 2 1/4" SOLID	1.38	1.2D + 1.6W 120	50	65	178.92	0	0		0.00		0.00			0	Member
HORIZ	SOL - 7/8" SOLID	0.63	1.2D + 1.6W	36	58	19.48	0	0		0.00		0.00	0.00		3	Member
DIAG	SOL - 1 1/4" SOLID	1.65	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00	0.00		4	Member

Section: 24		Section 20-24		Bot Elev (ft): 440.0				Height (ft): 20.000								
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2 1/4" SOLID	-44.69	1.2D + 1.0Di +	3.21	100	100	100	68.4	50.0	127.03	0	0	0.00	0.00	35	Member X
HORIZ	SOL - 7/8" SOLID	-2.67	1.2D + 1.6W	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	35	Member X
DIAG	SOL - 1 1/4" SOLID	-3.23	1.2D + 1.6W 60	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	19	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear		Bear	Blk	Shear	Use	
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv		phiRn	phit	Pn	%	Controls
LEG	SOL - 2 1/4" SOLID	13.71	1.2D + 1.6W 180	50	65	178.92	0	0		0.00		0.00			7	Member
HORIZ	SOL - 7/8" SOLID	4.13	1.2D + 1.6W 210	36	58	19.48	0	0		0.00		0.00	0.00		21	Member
DIAG	SOL - 1 1/4" SOLID	3.44	1.2D + 1.6W 90	36	58	39.76	0	0		0.00		0.00	0.00		8	Member

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Force/Stress Summary

Section: 25		Section 20-24		Bot Elev (ft): 460.0		Height (ft): 20.000										
		Pu		Len	Bracing %			F'y	Phic	Pn	Num	Num	Shear	Bear		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	phiRnv	phiRn	Use	Controls
LEG	SOL - 2 1/4" SOLID	-14.50	1.2D + 1.6W	3.21	100	100	100	68.4	50.0	127.03	0	0	0.00	0.00	11	Member X
HORIZ	SOL - 7/8" SOLID	-1.38	1.2D + 1.6W 90	3.500	100	100	100	134.4	36.0	7.52	0	0	0.00	0.00	18	Member X
DIAG	SOL - 1 1/4" SOLID	-2.35	1.2D + 1.6W	4.748	100	100	100	127.6	36.0	16.88	0	0	0.00	0.00	13	Member X
		Pu		Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Blk Shear				
Max Tension Member		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	phiRn	Use	Controls		
LEG	SOL - 2 1/4" SOLID	13.98	1.2D + 1.6W 180	50	65	178.92	0	0		0.00	0.00		7	Member		
HORIZ	SOL - 7/8" SOLID	1.38	1.2D + 1.6W 90	36	58	19.48	0	0		0.00	0.00	0.00	7	Member		
DIAG	SOL - 1 1/4" SOLID	2.53	1.2D + 1.6W 90	36	58	39.76	0	0		0.00	0.00	0.00	6	Member		

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Detailed Reactions

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal	1	0.00	281.55	-1.09	
	A1	0.00	-2.23	1.21	
	A1a	-31.08	-36.48	-19.12	
	A1b	31.08	-36.49	-19.11	
	A2	0.00	-13.75	8.23	
	A2a	-38.37	-55.53	-26.02	
	A2b	38.37	-55.53	-26.02	
1.2D + 1.6W 60 deg	1	-1.64	270.03	-0.96	
	A1	-0.79	-7.41	6.21	
	A1a	-35.96	-42.29	-20.76	
	A1b	4.95	-7.36	-3.77	
	A2	-3.28	-30.48	22.69	
	A2a	-52.32	-71.92	-30.21	
	A2b	18.04	-30.57	-14.20	
1.2D + 1.6W 90 deg	1	-1.38	279.65	-0.47	
	A1	-1.09	-22.97	22.62	
	A1a	-37.57	-43.31	-21.01	
	A1b	1.65	-3.22	-1.40	
	A2	-4.02	-43.22	34.70	
	A2a	-49.70	-67.01	-26.67	
	A2b	10.15	-19.14	-7.78	
1.2D + 1.6W 120 deg	1	-0.93	281.74	0.54	
	A1	-1.01	-36.56	36.53	
	A1a	-32.15	-36.58	-17.39	
	A1b	1.05	-2.22	-0.60	
	A2	-3.35	-55.55	46.28	
	A2a	-41.74	-55.47	-20.23	
	A2b	7.15	-13.81	-4.13	
1.2D + 1.6W 180 deg	1	0.00	270.04	1.90	
	A1	0.00	-42.26	41.50	
	A1a	-5.76	-7.39	-2.41	
	A1b	5.76	-7.39	-2.41	
	A2	0.00	-72.00	60.42	
	A2a	-21.30	-30.50	-8.51	
	A2b	21.30	-30.50	-8.51	
1.2D + 1.6W 210 deg	1	0.28	279.64	1.44	
	A1	0.59	-43.27	43.01	
	A1a	-2.04	-3.22	-0.73	
	A1b	20.13	-22.97	-10.36	
	A2	1.75	-67.11	56.39	
	A2a	-11.80	-19.10	-4.89	
	A2b	32.05	-43.20	-13.87	
1.2D + 1.6W 240 deg	1	0.93	281.74	0.54	
	A1	1.01	-36.56	36.52	
	A1a	-1.05	-2.22	-0.60	
	A1b	32.16	-36.58	-17.39	
	A2	3.35	-55.55	46.28	
	A2a	-7.15	-13.81	-4.13	
	A2b	41.74	-55.47	-20.23	
1.2D + 1.6W 300 deg	1	1.64	270.03	-0.96	
	A1	0.79	-7.41	6.21	
	A1a	-4.95	-7.36	-3.77	
	A1b	35.96	-42.29	-20.76	
	A2	3.28	-30.48	22.69	

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	A2a	-18.04	-30.57	-14.20
	A2b	52.32	-71.92	-30.21
1.2D + 1.6W 330 deg	1	1.10	279.55	-0.97
	A1	0.38	-3.23	2.14
	A1a	-19.00	-22.90	-12.23
	A1b	36.95	-43.25	-22.01
	A2	1.66	-19.05	12.63
	A2a	-28.05	-43.29	-20.84
	A2b	47.95	-67.07	-29.70
1.2D + 1.0Di + 1.0Wi Normal	1	0.00	610.38	0.67
	A1	0.00	-11.89	14.69
	A1a	-24.24	-25.53	-15.00
	A1b	24.24	-25.53	-15.00
	A2	0.00	-43.66	42.45
	A2a	-53.01	-63.88	-34.01
	A2b	53.01	-63.88	-34.01
1.2D + 1.0Di + 1.0Wi 60 deg	1	0.38	606.70	0.22
	A1	-0.84	-16.35	19.00
	A1a	-27.90	-29.42	-16.11
	A1b	16.03	-16.34	-10.23
	A2	-2.95	-49.81	48.35
	A2a	-59.98	-70.46	-34.63
	A2b	40.40	-49.85	-26.74
1.2D + 1.0Di + 1.0Wi 90 deg	1	0.55	608.46	-0.10
	A1	-1.05	-21.02	23.83
	A1a	-27.36	-28.45	-15.29
	A1b	13.41	-13.02	-8.22
	A2	-3.58	-56.76	55.55
	A2a	-59.39	-68.74	-32.55
	A2b	37.19	-45.23	-23.23
1.2D + 1.0Di + 1.0Wi 120 deg	1	0.58	610.42	-0.34
	A1	-0.87	-25.55	28.50
	A1a	-25.12	-25.56	-13.50
	A1b	12.71	-11.87	-7.34
	A2	-2.95	-63.89	62.92
	A2a	-55.96	-63.85	-28.90
	A2b	36.76	-43.70	-21.23
1.2D + 1.0Di + 1.0Wi 180 deg	1	0.00	606.67	-0.44
	A1	0.00	-29.39	32.20
	A1a	-16.88	-16.35	-8.77
	A1b	16.88	-16.35	-8.77
	A2	0.00	-70.45	69.21
	A2a	-43.36	-49.83	-21.63
	A2b	43.36	-49.83	-21.63
1.2D + 1.0Di + 1.0Wi 210 deg	1	-0.36	608.45	-0.43
	A1	0.44	-28.44	31.33
	A1a	-13.83	-13.03	-7.51
	A1b	21.16	-21.02	-11.01
	A2	1.50	-68.79	67.71
	A2a	-38.71	-45.20	-20.59
	A2b	49.89	-56.73	-24.67
1.2D + 1.0Di + 1.0Wi 240 deg	1	-0.59	610.42	-0.34
	A1	0.87	-25.55	28.50
	A1a	-12.71	-11.87	-7.34
	A1b	25.12	-25.56	-13.50
	A2	2.95	-63.89	62.92
	A2a	-36.76	-43.70	-21.23
	A2b	55.96	-63.85	-28.90
1.2D + 1.0Di + 1.0Wi 300 deg	1	-0.38	606.70	0.22

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	A1	0.84	-16.35	19.00
	A1a	-16.03	-16.34	-10.23
	A1b	27.90	-29.42	-16.11
	A2	2.95	-49.81	48.35
	A2a	-40.40	-49.85	-26.73
	A2b	59.98	-70.46	-34.63
1.2D + 1.0Di + 1.0Wi 330 deg	1	-0.19	608.43	0.52
	A1	0.42	-13.03	15.73
	A1a	-20.11	-21.01	-12.82
	A1b	26.92	-28.45	-16.05
	A2	1.52	-45.17	43.81
	A2a	-46.31	-56.77	-30.87
	A2b	57.88	-68.76	-35.16
(1.2 + 0.2Sds) * DL + E Normal M1	1	0.00	179.65	0.03
	A1	0.00	-8.70	8.66
	A1a	-8.30	-9.79	-4.79
	A1b	8.30	-9.79	-4.79
	A2	0.00	-21.45	17.75
	A2a	-17.01	-23.90	-9.83
	A2b	17.01	-23.90	-9.83
(1.2 + 0.2Sds) * DL + E Normal M2	1	0.00	179.61	0.00
	A1	0.00	-9.10	8.98
	A1a	-8.15	-9.58	-4.71
	A1b	8.16	-9.58	-4.71
	A2	0.00	-21.89	18.14
	A2a	-16.83	-23.66	-9.72
	A2b	16.83	-23.66	-9.72
(1.2 + 0.2Sds) * DL + E 60 deg M1	1	0.02	179.65	0.01
	A1	0.00	-9.06	8.97
	A1a	-8.57	-10.16	-4.95
	A1b	7.76	-9.06	-4.48
	A2	0.00	-22.26	18.38
	A2a	-17.57	-24.73	-10.14
	A2b	15.91	-22.26	-9.19
(1.2 + 0.2Sds) * DL + E 60 deg M2	1	0.00	179.60	0.00
	A1	0.00	-9.26	9.13
	A1a	-8.28	-9.74	-4.78
	A1b	7.91	-9.26	-4.57
	A2	0.00	-22.50	18.58
	A2a	-17.18	-24.22	-9.92
	A2b	16.09	-22.50	-9.29
(1.2 + 0.2Sds) * DL + E 90 deg M1	1	0.03	179.65	0.00
	A1	0.00	-9.43	9.28
	A1a	-8.50	-10.06	-4.91
	A1b	7.57	-8.80	-4.37
	A2	0.00	-23.08	19.01
	A2a	-17.42	-24.51	-10.06
	A2b	15.52	-21.66	-8.96
(1.2 + 0.2Sds) * DL + E 90 deg M2	1	0.00	179.61	0.00
	A1	0.00	-9.42	9.27
	A1a	-8.25	-9.70	-4.76
	A1b	7.81	-9.14	-4.51
	A2	0.00	-23.07	19.00
	A2a	-17.11	-24.10	-9.88
	A2b	15.81	-22.05	-9.13
(1.2 + 0.2Sds) * DL + E 120 deg M1	1	0.02	179.65	-0.01
	A1	0.00	-9.79	9.59
	A1a	-8.30	-9.79	-4.79
	A1b	7.50	-8.70	-4.33
	A2	0.00	-23.90	19.65
	A2a	-17.01	-23.90	-9.82

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	A2b	15.37	-21.45	-8.88
(1.2 + 0.2Sds) * DL + E 120 deg M2	1	0.00	179.61	0.00
	A1	0.00	-9.59	9.42
	A1a	-8.16	-9.59	-4.71
	A1b	7.78	-9.10	-4.49
	A2	0.00	-23.66	19.44
	A2a	-16.83	-23.66	-9.72
	A2b	15.71	-21.89	-9.07
(1.2 + 0.2Sds) * DL + E 180 deg M1	1	0.00	179.65	-0.03
	A1	0.00	-10.16	9.90
	A1a	-7.76	-9.06	-4.48
	A1b	7.76	-9.06	-4.48
	A2	0.00	-24.73	20.29
	A2a	-15.92	-22.26	-9.19
	A2b	15.92	-22.26	-9.19
(1.2 + 0.2Sds) * DL + E 180 deg M2	1	0.00	179.61	0.00
	A1	0.00	-9.75	9.56
	A1a	-7.91	-9.26	-4.56
	A1b	7.91	-9.26	-4.56
	A2	0.00	-24.26	19.88
	A2a	-16.08	-22.48	-9.28
	A2b	16.08	-22.48	-9.28
(1.2 + 0.2Sds) * DL + E 210 deg M1	1	-0.01	179.65	-0.02
	A1	0.00	-10.06	9.81
	A1a	-7.57	-8.80	-4.37
	A1b	8.03	-9.43	-4.64
	A2	0.00	-24.51	20.11
	A2a	-15.52	-21.66	-8.96
	A2b	16.46	-23.08	-9.50
(1.2 + 0.2Sds) * DL + E 210 deg M2	1	0.00	179.61	0.00
	A1	0.00	-9.70	9.52
	A1a	-7.82	-9.14	-4.51
	A1b	8.03	-9.42	-4.64
	A2	0.00	-24.06	19.73
	A2a	-15.83	-22.09	-9.14
	A2b	16.46	-23.07	-9.50
(1.2 + 0.2Sds) * DL + E 240 deg M1	1	-0.02	179.65	-0.01
	A1	0.00	-9.79	9.59
	A1a	-7.50	-8.70	-4.33
	A1b	8.30	-9.79	-4.79
	A2	0.00	-23.90	19.65
	A2a	-15.37	-21.45	-8.88
	A2b	17.01	-23.90	-9.82
(1.2 + 0.2Sds) * DL + E 240 deg M2	1	0.00	179.61	0.00
	A1	0.00	-9.59	9.42
	A1a	-7.78	-9.10	-4.49
	A1b	8.16	-9.58	-4.71
	A2	0.00	-23.66	19.44
	A2a	-15.71	-21.89	-9.07
	A2b	16.83	-23.66	-9.72
(1.2 + 0.2Sds) * DL + E 300 deg M1	1	-0.02	179.65	0.01
	A1	0.00	-9.06	8.97
	A1a	-7.76	-9.06	-4.48
	A1b	8.57	-10.16	-4.95
	A2	0.00	-22.26	18.38
	A2a	-15.91	-22.26	-9.19
	A2b	17.57	-24.73	-10.14
(1.2 + 0.2Sds) * DL + E 300 deg M2	1	0.00	179.60	0.00
	A1	0.00	-9.26	9.13

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A1a	-7.91	-9.26	-4.57
A1b	8.28	-9.74	-4.78
A2	0.00	-22.50	18.58
A2a	-16.09	-22.50	-9.29
A2b	17.18	-24.22	-9.92

(1.2 + 0.2Sds) * DL + E 330 deg M1

1	-0.01	179.65	0.02
A1	0.00	-8.80	8.74
A1a	-8.03	-9.43	-4.64
A1b	8.50	-10.06	-4.91
A2	0.00	-21.66	17.92
A2a	-16.46	-23.08	-9.51
A2b	17.42	-24.51	-10.06

(1.2 + 0.2Sds) * DL + E 330 deg M2

1	0.00	179.61	0.00
A1	0.00	-9.14	9.02
A1a	-8.03	-9.42	-4.64
A1b	8.25	-9.70	-4.76
A2	0.00	-22.05	18.25
A2a	-16.45	-23.07	-9.50
A2b	17.11	-24.10	-9.88

1.0D + 1.0W Service Normal

1	0.00	173.85	-0.79
A1	0.00	-3.57	3.40
A1a	-11.10	-13.08	-6.67
A1b	11.10	-13.08	-6.66
A2	0.00	-17.31	13.58
A2a	-20.24	-28.71	-12.72
A2b	20.24	-28.71	-12.72

1.0D + 1.0W Service 60 deg

1	-0.63	175.83	-0.36
A1	-0.22	-7.00	6.69
A1a	-14.17	-16.63	-8.18
A1b	5.68	-7.00	-3.53
A2	-0.89	-21.66	17.33
A2a	-23.84	-32.90	-13.77
A2b	14.57	-21.68	-9.44

1.0D + 1.0W Service 90 deg

1	-0.75	174.88	0.02
A1	-0.27	-10.03	9.81
A1a	-13.43	-15.66	-7.63
A1b	3.65	-4.55	-2.23
A2	-1.08	-25.20	20.62
A2a	-23.23	-31.75	-12.89
A2b	12.38	-18.52	-7.68

1.0D + 1.0W Service 120 deg

1	-0.68	173.87	0.39
A1	-0.22	-13.08	12.94
A1a	-11.32	-13.08	-6.28
A1b	2.94	-3.57	-1.70
A2	-0.89	-28.72	23.89
A2a	-21.13	-28.70	-11.17
A2b	11.77	-17.33	-6.80

1.0D + 1.0W Service 180 deg

1	0.00	175.83	0.73
A1	0.00	-16.62	16.36
A1a	-5.90	-7.00	-3.15
A1b	5.90	-7.00	-3.15
A2	0.00	-32.92	27.53
A2a	-15.46	-21.66	-7.89
A2b	15.46	-21.66	-7.89

1.0D + 1.0W Service 210 deg

1	0.39	174.87	0.64
A1	0.11	-15.65	15.44
A1a	-3.76	-4.56	-2.05
A1b	8.63	-10.03	-4.67
A2	0.46	-31.75	26.55
A2a	-12.85	-18.51	-6.89
A2b	18.40	-25.19	-9.38

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1.0D + 1.0W Service 240 deg

1	0.68	173.87	0.39
A1	0.22	-13.08	12.94
A1a	-2.94	-3.57	-1.70
A1b	11.33	-13.08	-6.28
A2	0.89	-28.72	23.89
A2a	-11.77	-17.33	-6.79
A2b	21.13	-28.70	-11.17

1.0D + 1.0W Service 300 deg

1	0.63	175.83	-0.36
A1	0.22	-7.00	6.69
A1a	-5.68	-7.00	-3.53
A1b	14.17	-16.63	-8.18
A2	0.89	-21.66	17.33
A2a	-14.57	-21.68	-9.44
A2b	23.84	-32.90	-13.77

1.0D + 1.0W Service 330 deg

1	0.36	174.86	-0.66
A1	0.11	-4.56	4.29
A1a	-8.36	-10.02	-5.14
A1b	13.31	-15.65	-7.82
A2	0.46	-18.50	14.56
A2a	-17.33	-25.22	-11.25
A2b	22.76	-31.74	-13.67

Maximum Reactions Summary

	<u>Base</u>	<u>Anch1</u>	<u>Anch2</u>
Vertical (kip)	610.42	-43.31	-72.00
Horizontal (kip)	1.90	43.05	69.25

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Guy Anchor Design Loads

Radius (ft)	Drop (ft)	Azimuth (°)	Uplift (kip)	Shear (kip)
143.00	0.00	0	43.27	43.02
143.00	0.00	240	43.31	43.05
143.00	0.00	120	43.25	43.00
299.00	0.00	0	72.00	69.21
299.00	0.00	240	71.92	69.25
299.00	0.00	120	71.92	69.25

Maximum Cable Forces Summary

Load Case	Elevation (ft)	Cable	Anchor Node	Tower Node	Allow Tension (kip)	Applied Tension (kip)	Use %
1.2D + 1.6W 90 deg	69.99	1/2 EHS	A1a	31b	16.14	11.19	69
1.2D + 1.6W 90 deg	139.62	9/16 EHS	A1a	T2a	21.00	14.56	69
1.2D + 1.6W 90 deg	219.62	9/16 EHS	A1a	T3a	21.00	11.46	55
1.2D + 1.0Di + 1.0Wi 60 deg	299.62	5/8 EHS	A2a	T4a	25.44	17.29	68
1.2D + 1.0Di + 1.0Wi 60 deg	379.62	3/4 BRIDGE	A2a	T5a	40.80	21.43	53
1.2D + 1.0Di + 1.0Wi 60 deg	459.62	3/4 BRIDGE	A2a	T6a	40.80	22.38	55

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Customer: SPRINT NEXTEL

Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
90 mph Normal to Face with No Ice	3.40	0.040	0.0281	0.6581	0.6583
90 mph Normal to Face with No Ice	10.08	0.112	0.0296	0.6591	0.6591
90 mph Normal to Face with No Ice	80.37	0.756	0.0225	0.5078	0.5081
90 mph Normal to Face with No Ice	90.00	0.828	0.0225	0.4241	0.4247
90 mph Normal to Face with No Ice	130.00	1.069	0.0225	0.2807	0.2810
90 mph Normal to Face with No Ice	140.00	1.118	0.0224	0.4135	0.4136
90 mph Normal to Face with No Ice	156.42	1.214	0.0193	0.3061	0.3067
90 mph Normal to Face with No Ice	170.00	1.279	0.0167	0.2213	0.2220
90 mph Normal to Face with No Ice	180.00	1.310	0.0147	0.1368	0.1370
90 mph Normal to Face with No Ice	190.00	1.324	0.0127	0.0617	0.0630
90 mph Normal to Face with No Ice	220.00	1.288	0.0067	0.1386	0.1386
90 mph Normal to Face with No Ice	300.00	0.995	0.0038	0.1534	0.1535
90 mph Normal to Face with No Ice	320.00	0.968	0.0035	0.1052	0.1053
90 mph Normal to Face with No Ice	330.00	0.968	-0.0034	0.0415	0.0416
90 mph Normal to Face with No Ice	356.42	0.982	-0.0031	0.1240	0.1240
90 mph Normal to Face with No Ice	396.42	1.091	-0.0033	0.3180	0.3180
90 mph Normal to Face with No Ice	406.79	1.141	-0.0034	0.2729	0.2729
90 mph Normal to Face with No Ice	416.42	1.184	-0.0032	0.2328	0.2328
90 mph Normal to Face with No Ice	419.62	1.196	-0.0031	0.2204	0.2204
90 mph Normal to Face with No Ice	420.37	1.198	-0.0031	0.2160	0.2160
90 mph Normal to Face with No Ice	426.79	1.219	-0.0031	0.2166	0.2166
90 mph Normal to Face with No Ice	456.42	1.280	0.0028	0.1093	0.1093
90 mph Normal to Face with No Ice	460.00	1.286	0.0028	0.2059	0.2059
90 mph Normal to Face with No Ice	476.42	1.325	0.0029	0.1127	0.1128
90 mph Normal to Face with No Ice	480.00	1.338	0.0030	0.7036	0.7036
90 mph 60 degree with No Ice	3.40	0.023	0.0314	0.3877	0.3883
90 mph 60 degree with No Ice	10.08	0.065	0.0335	0.3770	0.3774
90 mph 60 degree with No Ice	80.37	0.411	0.0254	0.2885	0.2896
90 mph 60 degree with No Ice	90.00	0.451	0.0252	0.2446	0.2456
90 mph 60 degree with No Ice	130.00	0.600	0.0262	0.1984	0.1999
90 mph 60 degree with No Ice	140.00	0.636	0.0269	0.3354	0.3357
90 mph 60 degree with No Ice	156.42	0.722	0.0242	0.2982	0.2985
90 mph 60 degree with No Ice	170.00	0.790	0.0218	0.2507	0.2517
90 mph 60 degree with No Ice	180.00	0.829	0.0202	0.1997	0.2007
90 mph 60 degree with No Ice	190.00	0.856	0.0185	0.1158	0.1169
90 mph 60 degree with No Ice	220.00	0.887	0.0108	0.0747	0.0747
90 mph 60 degree with No Ice	300.00	0.922	0.0090	0.1155	0.1155
90 mph 60 degree with No Ice	320.00	0.964	0.0608	0.2000	0.2091
90 mph 60 degree with No Ice	330.00	0.992	0.0829	0.1438	0.1657
90 mph 60 degree with No Ice	356.42	1.065	0.1364	0.1524	0.2045
90 mph 60 degree with No Ice	396.42	1.223	0.2178	0.2664	0.3390
90 mph 60 degree with No Ice	406.79	1.279	0.2366	0.2971	0.3798
90 mph 60 degree with No Ice	416.42	1.324	0.2534	0.2460	0.3502
90 mph 60 degree with No Ice	419.62	1.336	0.2589	0.2256	0.3385
90 mph 60 degree with No Ice	420.37	1.339	0.2603	0.2078	0.3327
90 mph 60 degree with No Ice	426.79	1.360	0.2713	0.1576	0.3138
90 mph 60 degree with No Ice	456.42	1.408	0.3135	0.0914	0.3179
90 mph 60 degree with No Ice	460.00	1.411	0.3185	0.1737	0.3539
90 mph 60 degree with No Ice	476.42	1.436	0.3412	0.1041	0.3567
90 mph 60 degree with No Ice	480.00	1.440	0.3439	0.5598	0.6570
90 mph 90 degree with No Ice	3.40	0.036	0.0757	0.5806	0.5841
90 mph 90 degree with No Ice	10.08	0.100	0.0761	0.5771	0.5802
90 mph 90 degree with No Ice	80.37	0.658	0.0698	0.4508	0.4561
90 mph 90 degree with No Ice	90.00	0.721	0.0692	0.3730	0.3793
90 mph 90 degree with No Ice	130.00	0.936	0.0665	0.2571	0.2638

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90 mph 90 degree with No Ice	140.00	0.980	0.0658	0.3781	0.3824
90 mph 90 degree with No Ice	156.42	1.070	0.0698	0.2994	0.3074
90 mph 90 degree with No Ice	170.00	1.135	0.0729	0.2333	0.2444
90 mph 90 degree with No Ice	180.00	1.170	0.0753	0.1635	0.1800
90 mph 90 degree with No Ice	190.00	1.186	0.0777	0.0609	0.0987
90 mph 90 degree with No Ice	220.00	1.172	0.0841	0.1210	0.1424
90 mph 90 degree with No Ice	300.00	1.005	0.1196	0.1577	0.1920
90 mph 90 degree with No Ice	320.00	1.007	0.1370	0.1202	0.1822
90 mph 90 degree with No Ice	330.00	1.015	0.1433	0.0970	0.1729
90 mph 90 degree with No Ice	356.42	1.053	0.1560	0.0843	0.1768
90 mph 90 degree with No Ice	396.42	1.175	0.1709	0.1793	0.2428
90 mph 90 degree with No Ice	406.79	1.226	0.1745	0.2634	0.3147
90 mph 90 degree with No Ice	416.42	1.264	0.1779	0.2116	0.2738
90 mph 90 degree with No Ice	419.62	1.276	0.1790	0.1953	0.2649
90 mph 90 degree with No Ice	420.37	1.279	0.1793	0.1836	0.2556
90 mph 90 degree with No Ice	426.79	1.296	0.1815	0.0938	0.2043
90 mph 90 degree with No Ice	456.42	1.327	0.1904	0.0795	0.2063
90 mph 90 degree with No Ice	460.00	1.328	0.1916	0.1517	0.2443
90 mph 90 degree with No Ice	476.42	1.343	0.1970	0.0824	0.2135
90 mph 90 degree with No Ice	480.00	1.342	0.1976	0.5003	0.5374
90 mph 120 degree with No Ice	3.40	0.040	0.0279	0.6575	0.6577
90 mph 120 degree with No Ice	10.08	0.112	0.0293	0.6584	0.6585
90 mph 120 degree with No Ice	80.37	0.756	0.0223	0.5085	0.5088
90 mph 120 degree with No Ice	90.00	0.828	0.0223	0.4252	0.4258
90 mph 120 degree with No Ice	130.00	1.071	0.0222	0.2835	0.2837
90 mph 120 degree with No Ice	140.00	1.120	0.0222	0.4169	0.4170
90 mph 120 degree with No Ice	156.42	1.216	0.0187	0.3100	0.3105
90 mph 120 degree with No Ice	170.00	1.283	0.0159	0.2255	0.2261
90 mph 120 degree with No Ice	180.00	1.315	0.0137	0.1416	0.1418
90 mph 120 degree with No Ice	190.00	1.329	0.0116	0.0377	0.0385
90 mph 120 degree with No Ice	220.00	1.296	0.0061	0.1308	0.1308
90 mph 120 degree with No Ice	300.00	1.016	0.0012	0.1464	0.1466
90 mph 120 degree with No Ice	320.00	0.989	-0.0263	0.0718	0.0802
90 mph 120 degree with No Ice	330.00	0.988	-0.0396	0.0398	0.0642
90 mph 120 degree with No Ice	356.42	0.999	-0.0750	0.0586	0.1044
90 mph 120 degree with No Ice	396.42	1.098	-0.1347	0.2002	0.2430
90 mph 120 degree with No Ice	406.79	1.144	-0.1475	0.2467	0.2935
90 mph 120 degree with No Ice	416.42	1.182	-0.1594	0.1989	0.2617
90 mph 120 degree with No Ice	419.62	1.191	-0.1635	0.1843	0.2532
90 mph 120 degree with No Ice	420.37	1.194	-0.1644	0.1810	0.2518
90 mph 120 degree with No Ice	426.79	1.210	-0.1723	0.1222	0.2217
90 mph 120 degree with No Ice	456.42	1.244	-0.2019	0.0837	0.2217
90 mph 120 degree with No Ice	460.00	1.246	-0.2054	0.1497	0.2605
90 mph 120 degree with No Ice	476.42	1.264	-0.2219	0.0805	0.2492
90 mph 120 degree with No Ice	480.00	1.266	-0.2240	0.5582	0.6045
90 mph 180 degree with No Ice	3.40	0.023	0.0314	0.3877	0.3883
90 mph 180 degree with No Ice	10.08	0.065	0.0335	0.3770	0.3775
90 mph 180 degree with No Ice	80.37	0.411	0.0254	0.2882	0.2893
90 mph 180 degree with No Ice	90.00	0.451	0.0251	0.2444	0.2453
90 mph 180 degree with No Ice	130.00	0.600	0.0262	0.1981	0.1995
90 mph 180 degree with No Ice	140.00	0.636	0.0268	0.3352	0.3355
90 mph 180 degree with No Ice	156.42	0.722	0.0232	0.2979	0.2982
90 mph 180 degree with No Ice	170.00	0.790	0.0201	0.2506	0.2514
90 mph 180 degree with No Ice	180.00	0.829	0.0179	0.1994	0.2002
90 mph 180 degree with No Ice	190.00	0.855	0.0158	0.1487	0.1496
90 mph 180 degree with No Ice	220.00	0.886	0.0096	0.0735	0.0735
90 mph 180 degree with No Ice	300.00	0.914	0.0030	0.1106	0.1108
90 mph 180 degree with No Ice	320.00	0.956	0.0020	0.2797	0.2797
90 mph 180 degree with No Ice	330.00	0.985	0.0017	0.1948	0.1949
90 mph 180 degree with No Ice	356.42	1.058	0.0015	0.2275	0.2275
90 mph 180 degree with No Ice	396.42	1.218	0.0016	0.3693	0.3693
90 mph 180 degree with No Ice	406.79	1.276	0.0013	0.3070	0.3070

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Customer: SPRINT NEXTEL

90 mph 180 degree with No Ice	416.42	1.323	0.0012	0.2614	0.2614
90 mph 180 degree with No Ice	419.62	1.336	0.0012	0.2397	0.2397
90 mph 180 degree with No Ice	420.37	1.339	0.0012	0.2269	0.2269
90 mph 180 degree with No Ice	426.79	1.363	0.0013	0.2330	0.2330
90 mph 180 degree with No Ice	456.42	1.427	0.0019	0.1102	0.1102
90 mph 180 degree with No Ice	460.00	1.433	0.0019	0.2023	0.2023
90 mph 180 degree with No Ice	476.42	1.474	0.0025	0.1182	0.1182
90 mph 180 degree with No Ice	480.00	1.487	0.0026	0.7075	0.7075
90 mph 210 degree with No Ice	3.40	0.036	0.0760	0.5807	0.5842
90 mph 210 degree with No Ice	10.08	0.100	0.0763	0.5772	0.5804
90 mph 210 degree with No Ice	80.37	0.658	0.0700	0.4505	0.4558
90 mph 210 degree with No Ice	90.00	0.721	0.0693	0.3726	0.3790
90 mph 210 degree with No Ice	130.00	0.935	0.0666	0.2564	0.2631
90 mph 210 degree with No Ice	140.00	0.979	0.0660	0.3772	0.3815
90 mph 210 degree with No Ice	156.42	1.069	0.0700	0.2985	0.3066
90 mph 210 degree with No Ice	170.00	1.134	0.0732	0.2326	0.2438
90 mph 210 degree with No Ice	180.00	1.168	0.0756	0.1626	0.1793
90 mph 210 degree with No Ice	190.00	1.185	0.0781	0.1004	0.1272
90 mph 210 degree with No Ice	220.00	1.170	0.0843	0.1217	0.1431
90 mph 210 degree with No Ice	300.00	0.996	0.1207	0.1559	0.1912
90 mph 210 degree with No Ice	320.00	0.998	0.1493	0.2148	0.2608
90 mph 210 degree with No Ice	330.00	1.007	0.1628	0.1515	0.2222
90 mph 210 degree with No Ice	356.42	1.045	0.1985	0.1793	0.2651
90 mph 210 degree with No Ice	396.42	1.170	0.2578	0.3131	0.4001
90 mph 210 degree with No Ice	406.79	1.224	0.2705	0.2771	0.3854
90 mph 210 degree with No Ice	416.42	1.265	0.2823	0.2323	0.3636
90 mph 210 degree with No Ice	419.62	1.278	0.2862	0.2157	0.3584
90 mph 210 degree with No Ice	420.37	1.281	0.2871	0.2053	0.3454
90 mph 210 degree with No Ice	426.79	1.301	0.2947	0.1984	0.3553
90 mph 210 degree with No Ice	456.42	1.351	0.3236	0.1031	0.3351
90 mph 210 degree with No Ice	460.00	1.355	0.3273	0.1931	0.3800
90 mph 210 degree with No Ice	476.42	1.387	0.3438	0.1014	0.3578
90 mph 210 degree with No Ice	480.00	1.397	0.3459	0.6665	0.7475
90 mph 240 degree with No Ice	3.40	0.040	0.0283	0.6575	0.6577
90 mph 240 degree with No Ice	10.08	0.112	0.0298	0.6584	0.6585
90 mph 240 degree with No Ice	80.37	0.756	0.0228	0.5085	0.5088
90 mph 240 degree with No Ice	90.00	0.828	0.0227	0.4252	0.4258
90 mph 240 degree with No Ice	130.00	1.071	0.0227	0.2835	0.2837
90 mph 240 degree with No Ice	140.00	1.120	0.0227	0.4168	0.4170
90 mph 240 degree with No Ice	156.42	1.216	0.0198	0.3100	0.3106
90 mph 240 degree with No Ice	170.00	1.283	0.0174	0.2255	0.2262
90 mph 240 degree with No Ice	180.00	1.315	0.0155	0.1417	0.1419
90 mph 240 degree with No Ice	190.00	1.329	0.0138	0.0366	0.0388
90 mph 240 degree with No Ice	220.00	1.296	0.0073	0.1303	0.1303
90 mph 240 degree with No Ice	300.00	1.016	0.0065	0.1455	0.1455
90 mph 240 degree with No Ice	320.00	0.989	0.0335	0.0652	0.0693
90 mph 240 degree with No Ice	330.00	0.988	0.0466	0.0401	0.0607
90 mph 240 degree with No Ice	356.42	0.999	0.0815	0.0611	0.0977
90 mph 240 degree with No Ice	396.42	1.098	0.1403	0.2001	0.2444
90 mph 240 degree with No Ice	406.79	1.144	0.1532	0.2463	0.2890
90 mph 240 degree with No Ice	416.42	1.181	0.1648	0.1989	0.2581
90 mph 240 degree with No Ice	419.62	1.191	0.1687	0.1860	0.2511
90 mph 240 degree with No Ice	420.37	1.193	0.1696	0.1784	0.2432
90 mph 240 degree with No Ice	426.79	1.210	0.1772	0.1216	0.2149
90 mph 240 degree with No Ice	456.42	1.243	0.2088	0.0717	0.2208
90 mph 240 degree with No Ice	460.00	1.245	0.2125	0.1558	0.2609
90 mph 240 degree with No Ice	476.42	1.263	0.2293	0.0784	0.2424
90 mph 240 degree with No Ice	480.00	1.265	0.2314	0.5560	0.6022
90 mph 300 degree with No Ice	3.40	0.023	0.0315	0.3877	0.3883
90 mph 300 degree with No Ice	10.08	0.065	0.0335	0.3770	0.3775
90 mph 300 degree with No Ice	80.37	0.411	0.0254	0.2884	0.2895
90 mph 300 degree with No Ice	90.00	0.451	0.0251	0.2446	0.2456

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90 mph 300 degree with No Ice	130.00	0.600	0.0262	0.1984	0.1998
90 mph 300 degree with No Ice	140.00	0.636	0.0268	0.3359	0.3362
90 mph 300 degree with No Ice	156.42	0.722	0.0223	0.2983	0.2985
90 mph 300 degree with No Ice	170.00	0.790	0.0184	0.2507	0.2514
90 mph 300 degree with No Ice	180.00	0.829	0.0158	0.1997	0.2003
90 mph 300 degree with No Ice	190.00	0.856	0.0131	0.1161	0.1169
90 mph 300 degree with No Ice	220.00	0.887	0.0085	0.0776	0.0776
90 mph 300 degree with No Ice	300.00	0.922	-0.0122	0.1171	0.1177
90 mph 300 degree with No Ice	320.00	0.964	-0.0649	0.1960	0.2048
90 mph 300 degree with No Ice	330.00	0.992	-0.0880	0.1441	0.1676
90 mph 300 degree with No Ice	356.42	1.066	-0.1420	0.1557	0.2072
90 mph 300 degree with No Ice	396.42	1.223	-0.2239	0.2652	0.3471
90 mph 300 degree with No Ice	406.79	1.279	-0.2422	0.2977	0.3811
90 mph 300 degree with No Ice	416.42	1.325	-0.2590	0.2460	0.3572
90 mph 300 degree with No Ice	419.62	1.337	-0.2645	0.2255	0.3362
90 mph 300 degree with No Ice	420.37	1.340	-0.2659	0.2100	0.3385
90 mph 300 degree with No Ice	426.79	1.360	-0.2770	0.1584	0.3188
90 mph 300 degree with No Ice	456.42	1.408	-0.3192	0.0912	0.3284
90 mph 300 degree with No Ice	460.00	1.411	-0.3242	0.1760	0.3634
90 mph 300 degree with No Ice	476.42	1.437	-0.3465	0.1059	0.3620
90 mph 300 degree with No Ice	480.00	1.441	-0.3492	0.5624	0.6620
90 mph 330 degree with No Ice	3.40	0.036	0.0757	0.5811	0.5846
90 mph 330 degree with No Ice	10.08	0.100	0.0761	0.5777	0.5808
90 mph 330 degree with No Ice	80.37	0.658	0.0697	0.4503	0.4555
90 mph 330 degree with No Ice	90.00	0.721	0.0691	0.3720	0.3784
90 mph 330 degree with No Ice	130.00	0.935	0.0664	0.2548	0.2616
90 mph 330 degree with No Ice	140.00	0.978	0.0657	0.3754	0.3797
90 mph 330 degree with No Ice	156.42	1.068	0.0688	0.2965	0.3044
90 mph 330 degree with No Ice	170.00	1.132	0.0712	0.2305	0.2412
90 mph 330 degree with No Ice	180.00	1.166	0.0730	0.1606	0.1765
90 mph 330 degree with No Ice	190.00	1.182	0.0749	0.0844	0.1128
90 mph 330 degree with No Ice	220.00	1.165	0.0830	0.1285	0.1483
90 mph 330 degree with No Ice	300.00	0.989	0.1129	0.1629	0.1927
90 mph 330 degree with No Ice	320.00	0.991	0.0665	0.1593	0.1695
90 mph 330 degree with No Ice	330.00	1.000	0.0460	0.1042	0.1139
90 mph 330 degree with No Ice	356.42	1.041	-0.0146	0.1421	0.1426
90 mph 330 degree with No Ice	396.42	1.170	-0.0913	0.2989	0.3125
90 mph 330 degree with No Ice	406.79	1.225	-0.1084	0.2846	0.3025
90 mph 330 degree with No Ice	416.42	1.268	-0.1241	0.2389	0.2692
90 mph 330 degree with No Ice	419.62	1.282	-0.1292	0.2231	0.2509
90 mph 330 degree with No Ice	420.37	1.284	-0.1304	0.2155	0.2489
90 mph 330 degree with No Ice	426.79	1.306	-0.1408	0.1974	0.2420
90 mph 330 degree with No Ice	456.42	1.360	-0.1798	0.0978	0.2017
90 mph 330 degree with No Ice	460.00	1.364	-0.1843	0.2022	0.2633
90 mph 330 degree with No Ice	476.42	1.399	-0.2049	0.1093	0.2318
90 mph 330 degree with No Ice	480.00	1.408	-0.2075	0.6514	0.6830
40 mph Normal with 1 in Radial Ice	3.40	0.014	0.0512	0.2327	0.2375
40 mph Normal with 1 in Radial Ice	10.08	0.032	0.0491	0.2334	0.2374
40 mph Normal with 1 in Radial Ice	80.37	0.210	0.0391	0.1581	0.1624
40 mph Normal with 1 in Radial Ice	90.00	0.225	0.0405	0.1091	0.1160
40 mph Normal with 1 in Radial Ice	130.00	0.288	0.0463	0.0782	0.0887
40 mph Normal with 1 in Radial Ice	140.00	0.301	0.0477	0.1534	0.1593
40 mph Normal with 1 in Radial Ice	156.42	0.331	0.0406	0.0965	0.1037
40 mph Normal with 1 in Radial Ice	170.00	0.352	0.0348	0.0759	0.0835
40 mph Normal with 1 in Radial Ice	180.00	0.364	0.0304	0.0576	0.0651
40 mph Normal with 1 in Radial Ice	190.00	0.369	0.0261	0.0391	0.0470
40 mph Normal with 1 in Radial Ice	220.00	0.360	0.0132	0.0526	0.0535
40 mph Normal with 1 in Radial Ice	300.00	0.247	-0.0061	0.1115	0.1117
40 mph Normal with 1 in Radial Ice	320.00	0.216	-0.0056	0.0400	0.0406
40 mph Normal with 1 in Radial Ice	330.00	0.203	-0.0054	0.0735	0.0737
40 mph Normal with 1 in Radial Ice	356.42	0.153	-0.0045	0.0885	0.0885
40 mph Normal with 1 in Radial Ice	396.42	0.066	-0.0031	0.0969	0.0970

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40 mph Normal with 1 in Radial Ice	406.79	0.044	-0.0029	0.1196	0.1196
40 mph Normal with 1 in Radial Ice	416.42	0.024	-0.0026	0.1414	0.1414
40 mph Normal with 1 in Radial Ice	419.62	0.015	-0.0026	0.1616	0.1616
40 mph Normal with 1 in Radial Ice	420.37	0.013	-0.0025	0.1538	0.1538
40 mph Normal with 1 in Radial Ice	426.79	0.005	-0.0024	0.1393	0.1393
40 mph Normal with 1 in Radial Ice	456.42	0.102	-0.0018	0.2293	0.2293
40 mph Normal with 1 in Radial Ice	460.00	0.115	-0.0018	0.1827	0.1827
40 mph Normal with 1 in Radial Ice	476.42	0.166	-0.0016	0.1975	0.1975
40 mph Normal with 1 in Radial Ice	480.00	0.174	-0.0015	0.2113	0.2113
40 mph 60 deg with 1 in Radial Ice	3.40	0.011	0.0506	0.1904	0.1962
40 mph 60 deg with 1 in Radial Ice	10.08	0.024	0.0487	0.1734	0.1790
40 mph 60 deg with 1 in Radial Ice	80.37	0.160	0.0385	0.1359	0.1405
40 mph 60 deg with 1 in Radial Ice	90.00	0.173	0.0396	0.0997	0.1070
40 mph 60 deg with 1 in Radial Ice	130.00	0.241	0.0456	0.1012	0.1100
40 mph 60 deg with 1 in Radial Ice	140.00	0.259	0.0469	0.1670	0.1722
40 mph 60 deg with 1 in Radial Ice	156.42	0.299	0.0401	0.1412	0.1455
40 mph 60 deg with 1 in Radial Ice	170.00	0.331	0.0342	0.1253	0.1299
40 mph 60 deg with 1 in Radial Ice	180.00	0.352	0.0300	0.1198	0.1235
40 mph 60 deg with 1 in Radial Ice	190.00	0.367	0.0259	0.0720	0.0765
40 mph 60 deg with 1 in Radial Ice	220.00	0.391	0.0122	0.0597	0.0601
40 mph 60 deg with 1 in Radial Ice	300.00	0.371	-0.0032	0.0393	0.0394
40 mph 60 deg with 1 in Radial Ice	320.00	0.365	-0.0125	0.0243	0.0273
40 mph 60 deg with 1 in Radial Ice	330.00	0.364	-0.0173	0.0340	0.0407
40 mph 60 deg with 1 in Radial Ice	356.42	0.350	-0.0294	0.0719	0.0777
40 mph 60 deg with 1 in Radial Ice	396.42	0.329	-0.0494	0.0462	0.0676
40 mph 60 deg with 1 in Radial Ice	406.79	0.325	-0.0560	0.0175	0.0617
40 mph 60 deg with 1 in Radial Ice	416.42	0.323	-0.0621	0.0411	0.0745
40 mph 60 deg with 1 in Radial Ice	419.62	0.319	-0.0642	0.0532	0.0855
40 mph 60 deg with 1 in Radial Ice	420.37	0.319	-0.0647	0.0473	0.0801
40 mph 60 deg with 1 in Radial Ice	426.79	0.313	-0.0688	0.0756	0.1037
40 mph 60 deg with 1 in Radial Ice	456.42	0.270	-0.0869	0.1592	0.1814
40 mph 60 deg with 1 in Radial Ice	460.00	0.263	-0.0890	0.0800	0.1206
40 mph 60 deg with 1 in Radial Ice	476.42	0.237	-0.0985	0.0866	0.1311
40 mph 60 deg with 1 in Radial Ice	480.00	0.230	-0.0995	0.4572	0.4671
40 mph 90 deg with 1 in Radial Ice	3.40	0.014	0.0923	0.2164	0.2340
40 mph 90 deg with 1 in Radial Ice	10.08	0.029	0.0898	0.2094	0.2261
40 mph 90 deg with 1 in Radial Ice	80.37	0.186	0.0791	0.1409	0.1612
40 mph 90 deg with 1 in Radial Ice	90.00	0.200	0.0794	0.1038	0.1302
40 mph 90 deg with 1 in Radial Ice	130.00	0.264	0.0806	0.0904	0.1190
40 mph 90 deg with 1 in Radial Ice	140.00	0.280	0.0809	0.1578	0.1757
40 mph 90 deg with 1 in Radial Ice	156.42	0.312	0.0765	0.1201	0.1399
40 mph 90 deg with 1 in Radial Ice	170.00	0.338	0.0727	0.1042	0.1270
40 mph 90 deg with 1 in Radial Ice	180.00	0.357	0.0699	0.0960	0.1188
40 mph 90 deg with 1 in Radial Ice	190.00	0.365	0.0672	0.0457	0.0813
40 mph 90 deg with 1 in Radial Ice	220.00	0.375	0.0586	0.0671	0.0860
40 mph 90 deg with 1 in Radial Ice	300.00	0.320	0.0612	0.0877	0.1035
40 mph 90 deg with 1 in Radial Ice	320.00	0.306	0.0729	0.0595	0.0921
40 mph 90 deg with 1 in Radial Ice	330.00	0.298	0.0783	0.0880	0.1166
40 mph 90 deg with 1 in Radial Ice	356.42	0.275	0.0919	0.1354	0.1636
40 mph 90 deg with 1 in Radial Ice	396.42	0.242	0.1137	0.1200	0.1653
40 mph 90 deg with 1 in Radial Ice	406.79	0.240	0.1202	0.0996	0.1557
40 mph 90 deg with 1 in Radial Ice	416.42	0.235	0.1263	0.1229	0.1763
40 mph 90 deg with 1 in Radial Ice	419.62	0.235	0.1284	0.1423	0.1899
40 mph 90 deg with 1 in Radial Ice	420.37	0.235	0.1289	0.1343	0.1861
40 mph 90 deg with 1 in Radial Ice	426.79	0.231	0.1330	0.1642	0.2100
40 mph 90 deg with 1 in Radial Ice	456.42	0.223	0.1505	0.2538	0.2951
40 mph 90 deg with 1 in Radial Ice	460.00	0.225	0.1527	0.1784	0.2308
40 mph 90 deg with 1 in Radial Ice	476.42	0.238	0.1621	0.1719	0.2363
40 mph 90 deg with 1 in Radial Ice	480.00	0.243	0.1632	0.5575	0.5809
40 mph 120 deg with 1 in Radial Ice	3.40	0.014	0.0516	0.2317	0.2365
40 mph 120 deg with 1 in Radial Ice	10.08	0.032	0.0495	0.2324	0.2364
40 mph 120 deg with 1 in Radial Ice	80.37	0.209	0.0395	0.1584	0.1628

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40 mph 120 deg with 1 in Radial Ice	90.00	0.225	0.0409	0.1097	0.1168
40 mph 120 deg with 1 in Radial Ice	130.00	0.288	0.0467	0.0801	0.0906
40 mph 120 deg with 1 in Radial Ice	140.00	0.302	0.0481	0.1557	0.1615
40 mph 120 deg with 1 in Radial Ice	156.42	0.332	0.0410	0.0988	0.1061
40 mph 120 deg with 1 in Radial Ice	170.00	0.354	0.0352	0.0784	0.0860
40 mph 120 deg with 1 in Radial Ice	180.00	0.366	0.0309	0.0604	0.0678
40 mph 120 deg with 1 in Radial Ice	190.00	0.371	0.0265	0.0215	0.0335
40 mph 120 deg with 1 in Radial Ice	220.00	0.364	0.0141	0.0491	0.0503
40 mph 120 deg with 1 in Radial Ice	300.00	0.259	0.0005	0.1070	0.1071
40 mph 120 deg with 1 in Radial Ice	320.00	0.230	0.0320	0.0696	0.0742
40 mph 120 deg with 1 in Radial Ice	330.00	0.216	0.0473	0.1068	0.1156
40 mph 120 deg with 1 in Radial Ice	356.42	0.164	0.0856	0.1568	0.1786
40 mph 120 deg with 1 in Radial Ice	396.42	0.072	0.1476	0.1499	0.2104
40 mph 120 deg with 1 in Radial Ice	406.79	0.047	0.1668	0.1365	0.2153
40 mph 120 deg with 1 in Radial Ice	416.42	0.024	0.1846	0.1634	0.2465
40 mph 120 deg with 1 in Radial Ice	419.62	0.013	0.1905	0.1821	0.2581
40 mph 120 deg with 1 in Radial Ice	420.37	0.011	0.1919	0.1781	0.2618
40 mph 120 deg with 1 in Radial Ice	426.79	0.011	0.2037	0.2007	0.2852
40 mph 120 deg with 1 in Radial Ice	456.42	0.126	0.2545	0.2934	0.3884
40 mph 120 deg with 1 in Radial Ice	460.00	0.141	0.2604	0.2235	0.3371
40 mph 120 deg with 1 in Radial Ice	476.42	0.207	0.2869	0.2200	0.3615
40 mph 120 deg with 1 in Radial Ice	480.00	0.223	0.2900	0.5500	0.6218
40 mph 180 deg with 1 in Radial Ice	3.40	0.011	0.0506	0.1914	0.1972
40 mph 180 deg with 1 in Radial Ice	10.08	0.024	0.0487	0.1744	0.1799
40 mph 180 deg with 1 in Radial Ice	80.37	0.161	0.0385	0.1358	0.1405
40 mph 180 deg with 1 in Radial Ice	90.00	0.174	0.0397	0.0993	0.1067
40 mph 180 deg with 1 in Radial Ice	130.00	0.241	0.0457	0.0998	0.1087
40 mph 180 deg with 1 in Radial Ice	140.00	0.259	0.0470	0.1654	0.1707
40 mph 180 deg with 1 in Radial Ice	156.42	0.299	0.0399	0.1392	0.1436
40 mph 180 deg with 1 in Radial Ice	170.00	0.330	0.0338	0.1232	0.1278
40 mph 180 deg with 1 in Radial Ice	180.00	0.351	0.0294	0.1174	0.1210
40 mph 180 deg with 1 in Radial Ice	190.00	0.365	0.0251	0.0945	0.0977
40 mph 180 deg with 1 in Radial Ice	220.00	0.387	0.0124	0.0563	0.0568
40 mph 180 deg with 1 in Radial Ice	300.00	0.358	-0.0048	0.0452	0.0453
40 mph 180 deg with 1 in Radial Ice	320.00	0.351	-0.0037	0.0442	0.0443
40 mph 180 deg with 1 in Radial Ice	330.00	0.350	-0.0032	0.0030	0.0072
40 mph 180 deg with 1 in Radial Ice	356.42	0.337	-0.0025	0.0089	0.0101
40 mph 180 deg with 1 in Radial Ice	396.42	0.321	-0.0014	0.0257	0.0258
40 mph 180 deg with 1 in Radial Ice	406.79	0.320	-0.0009	0.0027	0.0030
40 mph 180 deg with 1 in Radial Ice	416.42	0.321	-0.0007	0.0179	0.0179
40 mph 180 deg with 1 in Radial Ice	419.62	0.319	-0.0006	0.0336	0.0337
40 mph 180 deg with 1 in Radial Ice	420.37	0.318	-0.0005	0.0213	0.0213
40 mph 180 deg with 1 in Radial Ice	426.79	0.316	-0.0003	0.0099	0.0101
40 mph 180 deg with 1 in Radial Ice	456.42	0.290	0.0002	0.0909	0.0909
40 mph 180 deg with 1 in Radial Ice	460.00	0.285	0.0003	0.0340	0.0341
40 mph 180 deg with 1 in Radial Ice	476.42	0.273	0.0005	0.0641	0.0641
40 mph 180 deg with 1 in Radial Ice	480.00	0.273	0.0005	0.3454	0.3454
40 mph 210 deg with 1 in Radial Ice	3.40	0.014	0.0919	0.2166	0.2340
40 mph 210 deg with 1 in Radial Ice	10.08	0.029	0.0894	0.2095	0.2261
40 mph 210 deg with 1 in Radial Ice	80.37	0.186	0.0787	0.1410	0.1611
40 mph 210 deg with 1 in Radial Ice	90.00	0.200	0.0789	0.1038	0.1299
40 mph 210 deg with 1 in Radial Ice	130.00	0.264	0.0801	0.0902	0.1185
40 mph 210 deg with 1 in Radial Ice	140.00	0.280	0.0804	0.1576	0.1753
40 mph 210 deg with 1 in Radial Ice	156.42	0.312	0.0758	0.1198	0.1393
40 mph 210 deg with 1 in Radial Ice	170.00	0.338	0.0718	0.1038	0.1263
40 mph 210 deg with 1 in Radial Ice	180.00	0.357	0.0690	0.0953	0.1177
40 mph 210 deg with 1 in Radial Ice	190.00	0.365	0.0663	0.0743	0.0995
40 mph 210 deg with 1 in Radial Ice	220.00	0.374	0.0575	0.0650	0.0836
40 mph 210 deg with 1 in Radial Ice	300.00	0.310	0.0581	0.0891	0.1033
40 mph 210 deg with 1 in Radial Ice	320.00	0.295	0.0313	0.0613	0.0687
40 mph 210 deg with 1 in Radial Ice	330.00	0.286	0.0181	0.0756	0.0769
40 mph 210 deg with 1 in Radial Ice	356.42	0.264	-0.0188	0.1042	0.1052

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40 mph 210 deg with 1 in Radial Ice	396.42	0.237	-0.0719	0.1052	0.1281
40 mph 210 deg with 1 in Radial Ice	406.79	0.238	-0.0882	0.0944	0.1293
40 mph 210 deg with 1 in Radial Ice	416.42	0.237	-0.1034	0.1130	0.1535
40 mph 210 deg with 1 in Radial Ice	419.62	0.237	-0.1085	0.1355	0.1736
40 mph 210 deg with 1 in Radial Ice	420.37	0.237	-0.1097	0.1235	0.1621
40 mph 210 deg with 1 in Radial Ice	426.79	0.237	-0.1198	0.1356	0.1810
40 mph 210 deg with 1 in Radial Ice	456.42	0.242	-0.1637	0.2127	0.2655
40 mph 210 deg with 1 in Radial Ice	460.00	0.245	-0.1686	0.1579	0.2315
40 mph 210 deg with 1 in Radial Ice	476.42	0.264	-0.1917	0.1591	0.2482
40 mph 210 deg with 1 in Radial Ice	480.00	0.272	-0.1944	0.4321	0.4739
40 mph 240 deg with 1 in Radial Ice	3.40	0.014	0.0509	0.2318	0.2364
40 mph 240 deg with 1 in Radial Ice	10.08	0.032	0.0488	0.2324	0.2363
40 mph 240 deg with 1 in Radial Ice	80.37	0.209	0.0387	0.1584	0.1626
40 mph 240 deg with 1 in Radial Ice	90.00	0.225	0.0401	0.1097	0.1165
40 mph 240 deg with 1 in Radial Ice	130.00	0.288	0.0459	0.0801	0.0902
40 mph 240 deg with 1 in Radial Ice	140.00	0.302	0.0473	0.1557	0.1614
40 mph 240 deg with 1 in Radial Ice	156.42	0.332	0.0402	0.0989	0.1057
40 mph 240 deg with 1 in Radial Ice	170.00	0.354	0.0343	0.0784	0.0856
40 mph 240 deg with 1 in Radial Ice	180.00	0.366	0.0299	0.0605	0.0673
40 mph 240 deg with 1 in Radial Ice	190.00	0.371	0.0256	0.0209	0.0331
40 mph 240 deg with 1 in Radial Ice	220.00	0.364	0.0123	0.0470	0.0478
40 mph 240 deg with 1 in Radial Ice	300.00	0.259	-0.0109	0.1054	0.1057
40 mph 240 deg with 1 in Radial Ice	320.00	0.230	-0.0416	0.0733	0.0843
40 mph 240 deg with 1 in Radial Ice	330.00	0.216	-0.0567	0.1074	0.1215
40 mph 240 deg with 1 in Radial Ice	356.42	0.164	-0.0950	0.1551	0.1791
40 mph 240 deg with 1 in Radial Ice	396.42	0.072	-0.1571	0.1512	0.2154
40 mph 240 deg with 1 in Radial Ice	406.79	0.047	-0.1761	0.1367	0.2229
40 mph 240 deg with 1 in Radial Ice	416.42	0.023	-0.1939	0.1629	0.2494
40 mph 240 deg with 1 in Radial Ice	419.62	0.013	-0.1998	0.1844	0.2719
40 mph 240 deg with 1 in Radial Ice	420.37	0.011	-0.2012	0.1774	0.2638
40 mph 240 deg with 1 in Radial Ice	426.79	0.011	-0.2131	0.2010	0.2929
40 mph 240 deg with 1 in Radial Ice	456.42	0.126	-0.2642	0.2904	0.3886
40 mph 240 deg with 1 in Radial Ice	460.00	0.141	-0.2699	0.2228	0.3458
40 mph 240 deg with 1 in Radial Ice	476.42	0.207	-0.2969	0.2209	0.3686
40 mph 240 deg with 1 in Radial Ice	480.00	0.223	-0.3000	0.5510	0.6273
40 mph 300 deg with 1 in Radial Ice	3.40	0.011	0.0509	0.1904	0.1964
40 mph 300 deg with 1 in Radial Ice	10.08	0.024	0.0490	0.1735	0.1792
40 mph 300 deg with 1 in Radial Ice	80.37	0.160	0.0388	0.1359	0.1406
40 mph 300 deg with 1 in Radial Ice	90.00	0.173	0.0399	0.0997	0.1071
40 mph 300 deg with 1 in Radial Ice	130.00	0.241	0.0459	0.1012	0.1101
40 mph 300 deg with 1 in Radial Ice	140.00	0.259	0.0472	0.1671	0.1724
40 mph 300 deg with 1 in Radial Ice	156.42	0.299	0.0399	0.1412	0.1454
40 mph 300 deg with 1 in Radial Ice	170.00	0.331	0.0335	0.1253	0.1297
40 mph 300 deg with 1 in Radial Ice	180.00	0.352	0.0290	0.1198	0.1233
40 mph 300 deg with 1 in Radial Ice	190.00	0.367	0.0245	0.0728	0.0768
40 mph 300 deg with 1 in Radial Ice	220.00	0.391	0.0127	0.0621	0.0626
40 mph 300 deg with 1 in Radial Ice	300.00	0.371	-0.0083	0.0375	0.0375
40 mph 300 deg with 1 in Radial Ice	320.00	0.365	0.0070	0.0237	0.0237
40 mph 300 deg with 1 in Radial Ice	330.00	0.364	0.0115	0.0343	0.0350
40 mph 300 deg with 1 in Radial Ice	356.42	0.350	0.0232	0.0695	0.0724
40 mph 300 deg with 1 in Radial Ice	396.42	0.329	0.0426	0.0464	0.0630
40 mph 300 deg with 1 in Radial Ice	406.79	0.326	0.0487	0.0188	0.0515
40 mph 300 deg with 1 in Radial Ice	416.42	0.323	0.0546	0.0408	0.0682
40 mph 300 deg with 1 in Radial Ice	419.62	0.319	0.0566	0.0582	0.0767
40 mph 300 deg with 1 in Radial Ice	420.37	0.319	0.0571	0.0443	0.0714
40 mph 300 deg with 1 in Radial Ice	426.79	0.313	0.0611	0.0765	0.0967
40 mph 300 deg with 1 in Radial Ice	456.42	0.270	0.0790	0.1497	0.1693
40 mph 300 deg with 1 in Radial Ice	460.00	0.263	0.0809	0.0769	0.1116
40 mph 300 deg with 1 in Radial Ice	476.42	0.237	0.0900	0.0859	0.1240
40 mph 300 deg with 1 in Radial Ice	480.00	0.230	0.0911	0.4590	0.4666
40 mph 330 deg with 1 in Radial Ice	3.40	0.014	0.0924	0.2167	0.2343
40 mph 330 deg with 1 in Radial Ice	10.08	0.029	0.0899	0.2097	0.2264

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40 mph 330 deg with 1 in Radial Ice	80.37	0.187	0.0792	0.1410	0.1614
40 mph 330 deg with 1 in Radial Ice	90.00	0.200	0.0795	0.1038	0.1302
40 mph 330 deg with 1 in Radial Ice	130.00	0.264	0.0807	0.0901	0.1188
40 mph 330 deg with 1 in Radial Ice	140.00	0.280	0.0809	0.1573	0.1753
40 mph 330 deg with 1 in Radial Ice	156.42	0.312	0.0761	0.1197	0.1393
40 mph 330 deg with 1 in Radial Ice	170.00	0.338	0.0720	0.1037	0.1263
40 mph 330 deg with 1 in Radial Ice	180.00	0.357	0.0690	0.0954	0.1178
40 mph 330 deg with 1 in Radial Ice	190.00	0.365	0.0660	0.0609	0.0899
40 mph 330 deg with 1 in Radial Ice	220.00	0.373	0.0587	0.0698	0.0881
40 mph 330 deg with 1 in Radial Ice	300.00	0.312	0.0611	0.0951	0.1099
40 mph 330 deg with 1 in Radial Ice	320.00	0.298	0.0747	0.0302	0.0802
40 mph 330 deg with 1 in Radial Ice	330.00	0.290	0.0814	0.0526	0.0957
40 mph 330 deg with 1 in Radial Ice	356.42	0.268	0.0984	0.0662	0.1186
40 mph 330 deg with 1 in Radial Ice	396.42	0.240	0.1266	0.0634	0.1416
40 mph 330 deg with 1 in Radial Ice	406.79	0.239	0.1354	0.0816	0.1579
40 mph 330 deg with 1 in Radial Ice	416.42	0.235	0.1438	0.0994	0.1748
40 mph 330 deg with 1 in Radial Ice	419.62	0.235	0.1466	0.1187	0.1855
40 mph 330 deg with 1 in Radial Ice	420.37	0.235	0.1472	0.1083	0.1827
40 mph 330 deg with 1 in Radial Ice	426.79	0.232	0.1529	0.0985	0.1811
40 mph 330 deg with 1 in Radial Ice	456.42	0.217	0.1774	0.1878	0.2583
40 mph 330 deg with 1 in Radial Ice	460.00	0.217	0.1803	0.1342	0.2196
40 mph 330 deg with 1 in Radial Ice	476.42	0.218	0.1931	0.1469	0.2426
40 mph 330 deg with 1 in Radial Ice	480.00	0.217	0.1945	0.3038	0.3594
Seismic Normal M1	3.40	0.001	0.0092	0.0195	0.0215
Seismic Normal M1	10.08	0.000	0.0085	0.0174	0.0194
Seismic Normal M1	80.37	0.006	0.0065	0.0154	0.0166
Seismic Normal M1	90.00	0.006	0.0066	0.0067	0.0093
Seismic Normal M1	130.00	0.011	0.0077	0.0097	0.0122
Seismic Normal M1	140.00	0.013	0.0081	0.0232	0.0245
Seismic Normal M1	156.42	0.017	0.0064	0.0136	0.0149
Seismic Normal M1	170.00	0.020	0.0051	0.0125	0.0135
Seismic Normal M1	180.00	0.022	0.0041	0.0122	0.0128
Seismic Normal M1	190.00	0.024	0.0033	0.0097	0.0102
Seismic Normal M1	220.00	0.028	0.0009	0.0166	0.0167
Seismic Normal M1	300.00	0.038	-0.0012	0.0174	0.0175
Seismic Normal M1	320.00	0.042	-0.0008	0.0151	0.0151
Seismic Normal M1	330.00	0.044	-0.0007	0.0108	0.0108
Seismic Normal M1	356.42	0.048	-0.0003	0.0110	0.0110
Seismic Normal M1	396.42	0.058	-0.0001	0.0184	0.0184
Seismic Normal M1	406.79	0.061	0.0000	0.0191	0.0191
Seismic Normal M1	416.42	0.064	0.0000	0.0173	0.0173
Seismic Normal M1	419.62	0.065	0.0000	0.0237	0.0237
Seismic Normal M1	420.37	0.065	0.0000	0.0206	0.0206
Seismic Normal M1	426.79	0.067	0.0000	0.0137	0.0137
Seismic Normal M1	456.42	0.072	0.0000	0.0123	0.0123
Seismic Normal M1	460.00	0.072	0.0000	0.0234	0.0234
Seismic Normal M1	476.42	0.076	0.0000	0.0115	0.0115
Seismic Normal M1	480.00	0.076	0.0000	0.0133	0.0133
Seismic Normal M2	3.40	0.001	0.0091	0.0191	0.0212
Seismic Normal M2	10.08	0.000	0.0085	0.0169	0.0189
Seismic Normal M2	80.37	0.004	0.0065	0.0122	0.0138
Seismic Normal M2	90.00	0.003	0.0065	0.0030	0.0071
Seismic Normal M2	130.00	0.006	0.0076	0.0041	0.0085
Seismic Normal M2	140.00	0.006	0.0080	0.0150	0.0170
Seismic Normal M2	156.42	0.008	0.0063	0.0058	0.0085
Seismic Normal M2	170.00	0.009	0.0049	0.0048	0.0069
Seismic Normal M2	180.00	0.010	0.0040	0.0052	0.0065
Seismic Normal M2	190.00	0.010	0.0032	0.0033	0.0046
Seismic Normal M2	220.00	0.011	0.0008	0.0097	0.0097
Seismic Normal M2	300.00	0.015	-0.0012	0.0126	0.0127
Seismic Normal M2	320.00	0.018	-0.0008	0.0114	0.0115
Seismic Normal M2	330.00	0.020	-0.0006	0.0105	0.0105

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Seismic Normal M2	356.42	0.025	-0.0003	0.0158	0.0158
Seismic Normal M2	396.42	0.040	-0.0001	0.0271	0.0271
Seismic Normal M2	406.79	0.044	0.0000	0.0288	0.0288
Seismic Normal M2	416.42	0.050	0.0000	0.0287	0.0287
Seismic Normal M2	419.62	0.051	0.0000	0.0358	0.0358
Seismic Normal M2	420.37	0.051	0.0000	0.0331	0.0331
Seismic Normal M2	426.79	0.054	0.0000	0.0271	0.0271
Seismic Normal M2	456.42	0.067	0.0000	0.0283	0.0283
Seismic Normal M2	460.00	0.069	0.0000	0.0412	0.0412
Seismic Normal M2	476.42	0.077	0.0000	0.0285	0.0285
Seismic Normal M2	480.00	0.079	0.0000	0.0305	0.0305
Seismic 60 deg M1	3.40	0.001	0.0092	0.0197	0.0217
Seismic 60 deg M1	10.08	0.000	0.0085	0.0167	0.0188
Seismic 60 deg M1	80.37	0.006	0.0065	0.0152	0.0165
Seismic 60 deg M1	90.00	0.006	0.0065	0.0066	0.0093
Seismic 60 deg M1	130.00	0.011	0.0076	0.0094	0.0119
Seismic 60 deg M1	140.00	0.013	0.0080	0.0199	0.0214
Seismic 60 deg M1	156.42	0.017	0.0063	0.0134	0.0147
Seismic 60 deg M1	170.00	0.020	0.0050	0.0122	0.0132
Seismic 60 deg M1	180.00	0.022	0.0041	0.0123	0.0130
Seismic 60 deg M1	190.00	0.023	0.0032	0.0094	0.0100
Seismic 60 deg M1	220.00	0.027	0.0009	0.0140	0.0140
Seismic 60 deg M1	300.00	0.037	-0.0009	0.0146	0.0146
Seismic 60 deg M1	320.00	0.041	-0.0007	0.0165	0.0165
Seismic 60 deg M1	330.00	0.043	-0.0005	0.0106	0.0107
Seismic 60 deg M1	356.42	0.048	-0.0003	0.0102	0.0102
Seismic 60 deg M1	396.42	0.057	-0.0001	0.0188	0.0188
Seismic 60 deg M1	406.79	0.060	0.0000	0.0189	0.0189
Seismic 60 deg M1	416.42	0.063	0.0000	0.0170	0.0170
Seismic 60 deg M1	419.62	0.064	0.0000	0.0239	0.0239
Seismic 60 deg M1	420.37	0.064	0.0000	0.0199	0.0199
Seismic 60 deg M1	426.79	0.065	0.0000	0.0134	0.0134
Seismic 60 deg M1	456.42	0.070	0.0000	0.0122	0.0122
Seismic 60 deg M1	460.00	0.071	0.0000	0.0208	0.0208
Seismic 60 deg M1	476.42	0.074	0.0000	0.0110	0.0110
Seismic 60 deg M1	480.00	0.075	0.0000	0.0127	0.0127
Seismic 60 deg M2	3.40	0.001	0.0087	0.0193	0.0211
Seismic 60 deg M2	10.08	0.000	0.0080	0.0164	0.0182
Seismic 60 deg M2	80.37	0.004	0.0060	0.0121	0.0135
Seismic 60 deg M2	90.00	0.003	0.0060	0.0030	0.0067
Seismic 60 deg M2	130.00	0.006	0.0073	0.0038	0.0082
Seismic 60 deg M2	140.00	0.006	0.0078	0.0131	0.0152
Seismic 60 deg M2	156.42	0.008	0.0061	0.0054	0.0081
Seismic 60 deg M2	170.00	0.009	0.0047	0.0046	0.0066
Seismic 60 deg M2	180.00	0.010	0.0038	0.0053	0.0065
Seismic 60 deg M2	190.00	0.010	0.0029	0.0032	0.0043
Seismic 60 deg M2	220.00	0.011	0.0007	0.0086	0.0086
Seismic 60 deg M2	300.00	0.015	-0.0011	0.0105	0.0106
Seismic 60 deg M2	320.00	0.017	-0.0007	0.0113	0.0113
Seismic 60 deg M2	330.00	0.019	-0.0006	0.0098	0.0098
Seismic 60 deg M2	356.42	0.024	-0.0002	0.0144	0.0144
Seismic 60 deg M2	396.42	0.038	0.0000	0.0262	0.0262
Seismic 60 deg M2	406.79	0.042	0.0000	0.0276	0.0276
Seismic 60 deg M2	416.42	0.047	0.0000	0.0275	0.0275
Seismic 60 deg M2	419.62	0.048	0.0000	0.0352	0.0352
Seismic 60 deg M2	420.37	0.048	0.0000	0.0314	0.0314
Seismic 60 deg M2	426.79	0.051	0.0000	0.0259	0.0259
Seismic 60 deg M2	456.42	0.064	0.0000	0.0281	0.0281
Seismic 60 deg M2	460.00	0.066	0.0000	0.0377	0.0377
Seismic 60 deg M2	476.42	0.073	0.0000	0.0274	0.0274
Seismic 60 deg M2	480.00	0.075	0.0000	0.0291	0.0291
Seismic 90 deg M1	3.40	0.001	0.0092	0.0199	0.0219

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Seismic 90 deg M1	10.08	0.000	0.0086	0.0173	0.0193
Seismic 90 deg M1	80.37	0.006	0.0065	0.0139	0.0153
Seismic 90 deg M1	90.00	0.006	0.0065	0.0066	0.0093
Seismic 90 deg M1	130.00	0.011	0.0077	0.0095	0.0121
Seismic 90 deg M1	140.00	0.013	0.0081	0.0220	0.0234
Seismic 90 deg M1	156.42	0.017	0.0064	0.0133	0.0147
Seismic 90 deg M1	170.00	0.020	0.0050	0.0124	0.0134
Seismic 90 deg M1	180.00	0.022	0.0041	0.0124	0.0131
Seismic 90 deg M1	190.00	0.024	0.0033	0.0096	0.0101
Seismic 90 deg M1	220.00	0.027	0.0009	0.0158	0.0158
Seismic 90 deg M1	300.00	0.038	-0.0009	0.0165	0.0166
Seismic 90 deg M1	320.00	0.041	-0.0006	0.0159	0.0159
Seismic 90 deg M1	330.00	0.044	-0.0005	0.0108	0.0108
Seismic 90 deg M1	356.42	0.048	-0.0003	0.0108	0.0108
Seismic 90 deg M1	396.42	0.057	-0.0001	0.0182	0.0182
Seismic 90 deg M1	406.79	0.060	0.0000	0.0190	0.0190
Seismic 90 deg M1	416.42	0.064	0.0000	0.0167	0.0167
Seismic 90 deg M1	419.62	0.064	0.0000	0.0244	0.0244
Seismic 90 deg M1	420.37	0.064	0.0000	0.0195	0.0195
Seismic 90 deg M1	426.79	0.066	0.0000	0.0136	0.0136
Seismic 90 deg M1	456.42	0.071	0.0000	0.0118	0.0118
Seismic 90 deg M1	460.00	0.071	0.0000	0.0232	0.0232
Seismic 90 deg M1	476.42	0.075	0.0000	0.0112	0.0112
Seismic 90 deg M1	480.00	0.075	0.0000	0.0131	0.0131
Seismic 90 deg M2	3.40	0.001	0.0091	0.0194	0.0214
Seismic 90 deg M2	10.08	0.000	0.0085	0.0169	0.0189
Seismic 90 deg M2	80.37	0.004	0.0065	0.0113	0.0130
Seismic 90 deg M2	90.00	0.003	0.0065	0.0030	0.0071
Seismic 90 deg M2	130.00	0.006	0.0076	0.0040	0.0085
Seismic 90 deg M2	140.00	0.006	0.0080	0.0144	0.0164
Seismic 90 deg M2	156.42	0.008	0.0063	0.0057	0.0084
Seismic 90 deg M2	170.00	0.009	0.0049	0.0048	0.0069
Seismic 90 deg M2	180.00	0.010	0.0040	0.0055	0.0068
Seismic 90 deg M2	190.00	0.010	0.0031	0.0034	0.0046
Seismic 90 deg M2	220.00	0.011	0.0008	0.0094	0.0094
Seismic 90 deg M2	300.00	0.015	-0.0010	0.0122	0.0122
Seismic 90 deg M2	320.00	0.018	-0.0007	0.0119	0.0119
Seismic 90 deg M2	330.00	0.020	-0.0006	0.0105	0.0105
Seismic 90 deg M2	356.42	0.025	-0.0003	0.0154	0.0154
Seismic 90 deg M2	396.42	0.039	-0.0001	0.0265	0.0265
Seismic 90 deg M2	406.79	0.044	0.0000	0.0285	0.0285
Seismic 90 deg M2	416.42	0.049	0.0000	0.0279	0.0279
Seismic 90 deg M2	419.62	0.050	0.0000	0.0365	0.0365
Seismic 90 deg M2	420.37	0.051	0.0000	0.0317	0.0317
Seismic 90 deg M2	426.79	0.054	0.0000	0.0268	0.0268
Seismic 90 deg M2	456.42	0.067	0.0000	0.0272	0.0272
Seismic 90 deg M2	460.00	0.068	0.0000	0.0407	0.0407
Seismic 90 deg M2	476.42	0.076	0.0000	0.0280	0.0280
Seismic 90 deg M2	480.00	0.078	0.0000	0.0300	0.0300
Seismic 120 deg M1	3.40	0.001	0.0092	0.0195	0.0215
Seismic 120 deg M1	10.08	0.000	0.0086	0.0174	0.0194
Seismic 120 deg M1	80.37	0.006	0.0065	0.0154	0.0166
Seismic 120 deg M1	90.00	0.006	0.0066	0.0067	0.0093
Seismic 120 deg M1	130.00	0.011	0.0077	0.0097	0.0122
Seismic 120 deg M1	140.00	0.013	0.0081	0.0232	0.0245
Seismic 120 deg M1	156.42	0.017	0.0064	0.0136	0.0149
Seismic 120 deg M1	170.00	0.020	0.0050	0.0125	0.0135
Seismic 120 deg M1	180.00	0.022	0.0041	0.0122	0.0128
Seismic 120 deg M1	190.00	0.024	0.0033	0.0097	0.0102
Seismic 120 deg M1	220.00	0.028	0.0009	0.0166	0.0167
Seismic 120 deg M1	300.00	0.038	-0.0009	0.0174	0.0175
Seismic 120 deg M1	320.00	0.042	-0.0006	0.0151	0.0151

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Seismic 120 deg M1	330.00	0.044	-0.0005	0.0108	0.0108
Seismic 120 deg M1	356.42	0.049	-0.0003	0.0110	0.0110
Seismic 120 deg M1	396.42	0.058	-0.0001	0.0184	0.0184
Seismic 120 deg M1	406.79	0.061	0.0000	0.0191	0.0191
Seismic 120 deg M1	416.42	0.064	0.0000	0.0173	0.0173
Seismic 120 deg M1	419.62	0.065	0.0000	0.0237	0.0237
Seismic 120 deg M1	420.37	0.065	0.0000	0.0206	0.0206
Seismic 120 deg M1	426.79	0.067	0.0000	0.0137	0.0137
Seismic 120 deg M1	456.42	0.072	0.0000	0.0123	0.0123
Seismic 120 deg M1	460.00	0.072	0.0000	0.0234	0.0234
Seismic 120 deg M1	476.42	0.076	0.0000	0.0114	0.0114
Seismic 120 deg M1	480.00	0.076	0.0000	0.0133	0.0133
Seismic 120 deg M2	3.40	0.001	0.0091	0.0191	0.0212
Seismic 120 deg M2	10.08	0.000	0.0085	0.0169	0.0189
Seismic 120 deg M2	80.37	0.004	0.0065	0.0122	0.0138
Seismic 120 deg M2	90.00	0.003	0.0065	0.0030	0.0071
Seismic 120 deg M2	130.00	0.006	0.0076	0.0041	0.0085
Seismic 120 deg M2	140.00	0.006	0.0080	0.0150	0.0170
Seismic 120 deg M2	156.42	0.008	0.0063	0.0058	0.0085
Seismic 120 deg M2	170.00	0.009	0.0049	0.0048	0.0069
Seismic 120 deg M2	180.00	0.010	0.0040	0.0052	0.0065
Seismic 120 deg M2	190.00	0.010	0.0032	0.0033	0.0046
Seismic 120 deg M2	220.00	0.011	0.0008	0.0097	0.0097
Seismic 120 deg M2	300.00	0.015	-0.0010	0.0126	0.0127
Seismic 120 deg M2	320.00	0.018	-0.0007	0.0114	0.0115
Seismic 120 deg M2	330.00	0.020	-0.0006	0.0105	0.0105
Seismic 120 deg M2	356.42	0.025	-0.0003	0.0158	0.0158
Seismic 120 deg M2	396.42	0.040	-0.0001	0.0271	0.0271
Seismic 120 deg M2	406.79	0.044	0.0000	0.0288	0.0288
Seismic 120 deg M2	416.42	0.050	0.0000	0.0287	0.0287
Seismic 120 deg M2	419.62	0.051	0.0000	0.0358	0.0358
Seismic 120 deg M2	420.37	0.051	0.0000	0.0331	0.0331
Seismic 120 deg M2	426.79	0.054	0.0000	0.0271	0.0271
Seismic 120 deg M2	456.42	0.067	0.0000	0.0283	0.0283
Seismic 120 deg M2	460.00	0.069	0.0000	0.0412	0.0412
Seismic 120 deg M2	476.42	0.077	0.0000	0.0285	0.0285
Seismic 120 deg M2	480.00	0.079	0.0000	0.0305	0.0305
Seismic 180 deg M1	3.40	0.001	0.0092	0.0197	0.0217
Seismic 180 deg M1	10.08	0.000	0.0085	0.0167	0.0188
Seismic 180 deg M1	80.37	0.006	0.0065	0.0152	0.0165
Seismic 180 deg M1	90.00	0.006	0.0065	0.0066	0.0093
Seismic 180 deg M1	130.00	0.011	0.0076	0.0094	0.0119
Seismic 180 deg M1	140.00	0.013	0.0080	0.0199	0.0214
Seismic 180 deg M1	156.42	0.017	0.0063	0.0134	0.0147
Seismic 180 deg M1	170.00	0.020	0.0050	0.0122	0.0132
Seismic 180 deg M1	180.00	0.022	0.0041	0.0123	0.0130
Seismic 180 deg M1	190.00	0.023	0.0032	0.0094	0.0100
Seismic 180 deg M1	220.00	0.027	0.0009	0.0140	0.0140
Seismic 180 deg M1	300.00	0.037	-0.0011	0.0146	0.0147
Seismic 180 deg M1	320.00	0.041	-0.0007	0.0165	0.0165
Seismic 180 deg M1	330.00	0.043	-0.0006	0.0106	0.0107
Seismic 180 deg M1	356.42	0.048	-0.0003	0.0102	0.0102
Seismic 180 deg M1	396.42	0.057	-0.0001	0.0188	0.0188
Seismic 180 deg M1	406.79	0.060	0.0000	0.0189	0.0189
Seismic 180 deg M1	416.42	0.063	0.0000	0.0170	0.0170
Seismic 180 deg M1	419.62	0.064	0.0000	0.0239	0.0239
Seismic 180 deg M1	420.37	0.064	0.0000	0.0199	0.0199
Seismic 180 deg M1	426.79	0.065	0.0000	0.0134	0.0134
Seismic 180 deg M1	456.42	0.070	0.0000	0.0122	0.0122
Seismic 180 deg M1	460.00	0.071	0.0000	0.0208	0.0208
Seismic 180 deg M1	476.42	0.074	0.0000	0.0110	0.0110
Seismic 180 deg M1	480.00	0.075	0.0000	0.0127	0.0127

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Site Name: Lee S Summit #1b, MO

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Seismic 180 deg M2	3.40	0.001	0.0091	0.0193	0.0213
Seismic 180 deg M2	10.08	0.000	0.0085	0.0164	0.0184
Seismic 180 deg M2	80.37	0.004	0.0065	0.0122	0.0137
Seismic 180 deg M2	90.00	0.003	0.0065	0.0030	0.0071
Seismic 180 deg M2	130.00	0.006	0.0076	0.0039	0.0084
Seismic 180 deg M2	140.00	0.006	0.0080	0.0132	0.0153
Seismic 180 deg M2	156.42	0.008	0.0062	0.0055	0.0083
Seismic 180 deg M2	170.00	0.009	0.0049	0.0048	0.0068
Seismic 180 deg M2	180.00	0.010	0.0040	0.0054	0.0067
Seismic 180 deg M2	190.00	0.010	0.0031	0.0033	0.0045
Seismic 180 deg M2	220.00	0.011	0.0008	0.0087	0.0087
Seismic 180 deg M2	300.00	0.015	-0.0011	0.0109	0.0110
Seismic 180 deg M2	320.00	0.018	-0.0008	0.0119	0.0119
Seismic 180 deg M2	330.00	0.020	-0.0006	0.0103	0.0103
Seismic 180 deg M2	356.42	0.025	-0.0003	0.0150	0.0150
Seismic 180 deg M2	396.42	0.039	-0.0001	0.0270	0.0270
Seismic 180 deg M2	406.79	0.044	0.0000	0.0283	0.0283
Seismic 180 deg M2	416.42	0.049	0.0000	0.0281	0.0281
Seismic 180 deg M2	419.62	0.050	0.0000	0.0358	0.0358
Seismic 180 deg M2	420.37	0.050	0.0000	0.0320	0.0320
Seismic 180 deg M2	426.79	0.053	0.0000	0.0264	0.0264
Seismic 180 deg M2	456.42	0.066	0.0000	0.0282	0.0282
Seismic 180 deg M2	460.00	0.068	0.0000	0.0382	0.0382
Seismic 180 deg M2	476.42	0.076	0.0000	0.0276	0.0276
Seismic 180 deg M2	480.00	0.077	0.0000	0.0294	0.0294
Seismic 210 deg M1	3.40	0.001	0.0092	0.0199	0.0219
Seismic 210 deg M1	10.08	0.000	0.0085	0.0173	0.0193
Seismic 210 deg M1	80.37	0.006	0.0065	0.0139	0.0153
Seismic 210 deg M1	90.00	0.006	0.0065	0.0066	0.0093
Seismic 210 deg M1	130.00	0.011	0.0077	0.0095	0.0121
Seismic 210 deg M1	140.00	0.013	0.0081	0.0220	0.0234
Seismic 210 deg M1	156.42	0.017	0.0064	0.0133	0.0147
Seismic 210 deg M1	170.00	0.020	0.0050	0.0124	0.0134
Seismic 210 deg M1	180.00	0.022	0.0041	0.0124	0.0131
Seismic 210 deg M1	190.00	0.024	0.0033	0.0096	0.0101
Seismic 210 deg M1	220.00	0.027	0.0009	0.0158	0.0158
Seismic 210 deg M1	300.00	0.038	-0.0012	0.0165	0.0166
Seismic 210 deg M1	320.00	0.041	-0.0008	0.0159	0.0159
Seismic 210 deg M1	330.00	0.044	-0.0006	0.0108	0.0108
Seismic 210 deg M1	356.42	0.048	-0.0003	0.0108	0.0108
Seismic 210 deg M1	396.42	0.057	-0.0001	0.0182	0.0182
Seismic 210 deg M1	406.79	0.060	0.0000	0.0190	0.0190
Seismic 210 deg M1	416.42	0.064	0.0000	0.0167	0.0167
Seismic 210 deg M1	419.62	0.064	0.0000	0.0244	0.0244
Seismic 210 deg M1	420.37	0.064	0.0000	0.0195	0.0195
Seismic 210 deg M1	426.79	0.066	0.0000	0.0136	0.0136
Seismic 210 deg M1	456.42	0.071	0.0000	0.0118	0.0118
Seismic 210 deg M1	460.00	0.071	0.0000	0.0231	0.0231
Seismic 210 deg M1	476.42	0.075	0.0000	0.0112	0.0112
Seismic 210 deg M1	480.00	0.075	0.0000	0.0131	0.0131
Seismic 210 deg M2	3.40	0.001	0.0087	0.0194	0.0213
Seismic 210 deg M2	10.08	0.000	0.0080	0.0169	0.0187
Seismic 210 deg M2	80.37	0.004	0.0060	0.0113	0.0128
Seismic 210 deg M2	90.00	0.003	0.0061	0.0030	0.0067
Seismic 210 deg M2	130.00	0.006	0.0074	0.0039	0.0082
Seismic 210 deg M2	140.00	0.006	0.0079	0.0143	0.0163
Seismic 210 deg M2	156.42	0.008	0.0061	0.0056	0.0082
Seismic 210 deg M2	170.00	0.009	0.0047	0.0047	0.0067
Seismic 210 deg M2	180.00	0.010	0.0038	0.0053	0.0066
Seismic 210 deg M2	190.00	0.010	0.0030	0.0032	0.0044
Seismic 210 deg M2	220.00	0.011	0.0007	0.0092	0.0092
Seismic 210 deg M2	300.00	0.015	-0.0012	0.0117	0.0117

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Seismic 210 deg M2	320.00	0.017	-0.0008	0.0113	0.0113
Seismic 210 deg M2	330.00	0.019	-0.0006	0.0099	0.0099
Seismic 210 deg M2	356.42	0.024	-0.0003	0.0148	0.0148
Seismic 210 deg M2	396.42	0.038	0.0000	0.0258	0.0258
Seismic 210 deg M2	406.79	0.042	0.0000	0.0278	0.0278
Seismic 210 deg M2	416.42	0.047	0.0000	0.0273	0.0273
Seismic 210 deg M2	419.62	0.048	0.0000	0.0358	0.0358
Seismic 210 deg M2	420.37	0.049	0.0000	0.0310	0.0310
Seismic 210 deg M2	426.79	0.052	0.0000	0.0263	0.0263
Seismic 210 deg M2	456.42	0.064	0.0000	0.0270	0.0270
Seismic 210 deg M2	460.00	0.066	0.0000	0.0401	0.0401
Seismic 210 deg M2	476.42	0.074	0.0000	0.0276	0.0276
Seismic 210 deg M2	480.00	0.076	0.0000	0.0297	0.0297
Seismic 240 deg M1	3.40	0.001	0.0092	0.0195	0.0216
Seismic 240 deg M1	10.08	0.000	0.0085	0.0174	0.0194
Seismic 240 deg M1	80.37	0.006	0.0065	0.0154	0.0166
Seismic 240 deg M1	90.00	0.006	0.0066	0.0067	0.0093
Seismic 240 deg M1	130.00	0.011	0.0077	0.0097	0.0122
Seismic 240 deg M1	140.00	0.013	0.0081	0.0232	0.0245
Seismic 240 deg M1	156.42	0.017	0.0064	0.0136	0.0149
Seismic 240 deg M1	170.00	0.020	0.0051	0.0125	0.0135
Seismic 240 deg M1	180.00	0.022	0.0041	0.0122	0.0128
Seismic 240 deg M1	190.00	0.024	0.0033	0.0097	0.0102
Seismic 240 deg M1	220.00	0.028	0.0009	0.0166	0.0167
Seismic 240 deg M1	300.00	0.038	-0.0013	0.0174	0.0175
Seismic 240 deg M1	320.00	0.042	-0.0009	0.0151	0.0151
Seismic 240 deg M1	330.00	0.044	-0.0007	0.0108	0.0108
Seismic 240 deg M1	356.42	0.048	-0.0003	0.0110	0.0110
Seismic 240 deg M1	396.42	0.058	-0.0001	0.0184	0.0184
Seismic 240 deg M1	406.79	0.061	0.0000	0.0191	0.0191
Seismic 240 deg M1	416.42	0.064	0.0000	0.0173	0.0173
Seismic 240 deg M1	419.62	0.065	0.0000	0.0237	0.0237
Seismic 240 deg M1	420.37	0.065	0.0000	0.0206	0.0206
Seismic 240 deg M1	426.79	0.067	0.0000	0.0137	0.0137
Seismic 240 deg M1	456.42	0.072	0.0000	0.0123	0.0123
Seismic 240 deg M1	460.00	0.072	0.0000	0.0234	0.0234
Seismic 240 deg M1	476.42	0.076	0.0000	0.0114	0.0114
Seismic 240 deg M1	480.00	0.076	0.0000	0.0133	0.0133
Seismic 240 deg M2	3.40	0.001	0.0091	0.0191	0.0212
Seismic 240 deg M2	10.08	0.000	0.0085	0.0169	0.0189
Seismic 240 deg M2	80.37	0.004	0.0065	0.0122	0.0138
Seismic 240 deg M2	90.00	0.003	0.0065	0.0030	0.0071
Seismic 240 deg M2	130.00	0.006	0.0076	0.0041	0.0085
Seismic 240 deg M2	140.00	0.006	0.0080	0.0150	0.0170
Seismic 240 deg M2	156.42	0.008	0.0063	0.0058	0.0085
Seismic 240 deg M2	170.00	0.009	0.0049	0.0048	0.0069
Seismic 240 deg M2	180.00	0.010	0.0040	0.0052	0.0065
Seismic 240 deg M2	190.00	0.010	0.0032	0.0033	0.0046
Seismic 240 deg M2	220.00	0.011	0.0008	0.0097	0.0097
Seismic 240 deg M2	300.00	0.015	-0.0012	0.0126	0.0127
Seismic 240 deg M2	320.00	0.018	-0.0008	0.0114	0.0115
Seismic 240 deg M2	330.00	0.020	-0.0007	0.0105	0.0105
Seismic 240 deg M2	356.42	0.025	-0.0003	0.0158	0.0158
Seismic 240 deg M2	396.42	0.040	-0.0001	0.0271	0.0271
Seismic 240 deg M2	406.79	0.044	0.0000	0.0288	0.0288
Seismic 240 deg M2	416.42	0.050	0.0000	0.0287	0.0287
Seismic 240 deg M2	419.62	0.051	0.0000	0.0358	0.0358
Seismic 240 deg M2	420.37	0.051	0.0000	0.0331	0.0331
Seismic 240 deg M2	426.79	0.054	0.0000	0.0271	0.0271
Seismic 240 deg M2	456.42	0.067	0.0000	0.0283	0.0283
Seismic 240 deg M2	460.00	0.069	0.0000	0.0412	0.0412
Seismic 240 deg M2	476.42	0.077	0.0000	0.0285	0.0285

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Seismic 240 deg M2	480.00	0.079	0.0000	0.0305	0.0305
Seismic 300 deg M1	3.40	0.001	0.0092	0.0197	0.0217
Seismic 300 deg M1	10.08	0.000	0.0085	0.0167	0.0188
Seismic 300 deg M1	80.37	0.006	0.0065	0.0152	0.0165
Seismic 300 deg M1	90.00	0.006	0.0065	0.0066	0.0093
Seismic 300 deg M1	130.00	0.011	0.0076	0.0094	0.0119
Seismic 300 deg M1	140.00	0.013	0.0080	0.0199	0.0214
Seismic 300 deg M1	156.42	0.017	0.0063	0.0134	0.0147
Seismic 300 deg M1	170.00	0.020	0.0050	0.0122	0.0132
Seismic 300 deg M1	180.00	0.022	0.0041	0.0123	0.0130
Seismic 300 deg M1	190.00	0.023	0.0032	0.0094	0.0100
Seismic 300 deg M1	220.00	0.027	0.0009	0.0140	0.0140
Seismic 300 deg M1	300.00	0.037	-0.0014	0.0146	0.0146
Seismic 300 deg M1	320.00	0.041	-0.0009	0.0165	0.0165
Seismic 300 deg M1	330.00	0.043	-0.0007	0.0106	0.0107
Seismic 300 deg M1	356.42	0.048	-0.0004	0.0102	0.0102
Seismic 300 deg M1	396.42	0.057	-0.0001	0.0188	0.0188
Seismic 300 deg M1	406.79	0.060	0.0000	0.0189	0.0189
Seismic 300 deg M1	416.42	0.063	0.0000	0.0170	0.0170
Seismic 300 deg M1	419.62	0.064	0.0000	0.0239	0.0239
Seismic 300 deg M1	420.37	0.064	0.0000	0.0199	0.0199
Seismic 300 deg M1	426.79	0.065	0.0000	0.0134	0.0134
Seismic 300 deg M1	456.42	0.070	0.0000	0.0122	0.0122
Seismic 300 deg M1	460.00	0.071	0.0000	0.0208	0.0208
Seismic 300 deg M1	476.42	0.074	0.0000	0.0110	0.0110
Seismic 300 deg M1	480.00	0.075	0.0000	0.0127	0.0127
Seismic 300 deg M2	3.40	0.001	0.0087	0.0193	0.0211
Seismic 300 deg M2	10.08	0.000	0.0080	0.0164	0.0182
Seismic 300 deg M2	80.37	0.004	0.0060	0.0121	0.0135
Seismic 300 deg M2	90.00	0.003	0.0060	0.0030	0.0067
Seismic 300 deg M2	130.00	0.006	0.0073	0.0038	0.0082
Seismic 300 deg M2	140.00	0.006	0.0078	0.0131	0.0152
Seismic 300 deg M2	156.42	0.008	0.0061	0.0054	0.0081
Seismic 300 deg M2	170.00	0.009	0.0047	0.0046	0.0066
Seismic 300 deg M2	180.00	0.010	0.0038	0.0053	0.0065
Seismic 300 deg M2	190.00	0.010	0.0029	0.0032	0.0043
Seismic 300 deg M2	220.00	0.011	0.0007	0.0086	0.0086
Seismic 300 deg M2	300.00	0.015	-0.0012	0.0105	0.0106
Seismic 300 deg M2	320.00	0.017	-0.0008	0.0113	0.0113
Seismic 300 deg M2	330.00	0.019	-0.0006	0.0098	0.0098
Seismic 300 deg M2	356.42	0.024	-0.0003	0.0144	0.0144
Seismic 300 deg M2	396.42	0.038	0.0000	0.0262	0.0262
Seismic 300 deg M2	406.79	0.042	0.0000	0.0276	0.0276
Seismic 300 deg M2	416.42	0.047	0.0000	0.0275	0.0275
Seismic 300 deg M2	419.62	0.048	0.0000	0.0352	0.0352
Seismic 300 deg M2	420.37	0.048	0.0000	0.0314	0.0314
Seismic 300 deg M2	426.79	0.051	0.0000	0.0259	0.0259
Seismic 300 deg M2	456.42	0.064	0.0000	0.0281	0.0281
Seismic 300 deg M2	460.00	0.066	0.0000	0.0377	0.0377
Seismic 300 deg M2	476.42	0.073	0.0000	0.0274	0.0274
Seismic 300 deg M2	480.00	0.075	0.0000	0.0291	0.0291
Seismic 330 deg M1	3.40	0.001	0.0092	0.0199	0.0219
Seismic 330 deg M1	10.08	0.000	0.0085	0.0173	0.0193
Seismic 330 deg M1	80.37	0.006	0.0065	0.0139	0.0153
Seismic 330 deg M1	90.00	0.006	0.0065	0.0066	0.0093
Seismic 330 deg M1	130.00	0.011	0.0077	0.0095	0.0121
Seismic 330 deg M1	140.00	0.013	0.0081	0.0220	0.0234
Seismic 330 deg M1	156.42	0.017	0.0064	0.0133	0.0147
Seismic 330 deg M1	170.00	0.020	0.0050	0.0124	0.0134
Seismic 330 deg M1	180.00	0.022	0.0041	0.0124	0.0131
Seismic 330 deg M1	190.00	0.024	0.0033	0.0096	0.0101
Seismic 330 deg M1	220.00	0.027	0.0009	0.0158	0.0158

Site Number: 36075

Code:

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Seismic 330 deg M1	300.00	0.038	-0.0013	0.0165	0.0166
Seismic 330 deg M1	320.00	0.041	-0.0009	0.0159	0.0159
Seismic 330 deg M1	330.00	0.044	-0.0007	0.0108	0.0108
Seismic 330 deg M1	356.42	0.048	-0.0003	0.0108	0.0108
Seismic 330 deg M1	396.42	0.057	-0.0001	0.0182	0.0182
Seismic 330 deg M1	406.79	0.060	0.0000	0.0190	0.0190
Seismic 330 deg M1	416.42	0.064	0.0000	0.0167	0.0167
Seismic 330 deg M1	419.62	0.064	0.0000	0.0244	0.0244
Seismic 330 deg M1	420.37	0.064	0.0000	0.0195	0.0195
Seismic 330 deg M1	426.79	0.066	0.0000	0.0136	0.0136
Seismic 330 deg M1	456.42	0.071	0.0000	0.0118	0.0118
Seismic 330 deg M1	460.00	0.071	0.0000	0.0232	0.0232
Seismic 330 deg M1	476.42	0.075	0.0000	0.0112	0.0112
Seismic 330 deg M1	480.00	0.075	0.0000	0.0131	0.0131
Seismic 330 deg M2	3.40	0.001	0.0091	0.0194	0.0214
Seismic 330 deg M2	10.08	0.000	0.0085	0.0169	0.0189
Seismic 330 deg M2	80.37	0.004	0.0065	0.0113	0.0130
Seismic 330 deg M2	90.00	0.003	0.0065	0.0030	0.0071
Seismic 330 deg M2	130.00	0.006	0.0076	0.0040	0.0085
Seismic 330 deg M2	140.00	0.006	0.0080	0.0144	0.0164
Seismic 330 deg M2	156.42	0.008	0.0063	0.0057	0.0084
Seismic 330 deg M2	170.00	0.009	0.0049	0.0048	0.0069
Seismic 330 deg M2	180.00	0.010	0.0040	0.0055	0.0068
Seismic 330 deg M2	190.00	0.010	0.0031	0.0034	0.0046
Seismic 330 deg M2	220.00	0.011	0.0008	0.0094	0.0094
Seismic 330 deg M2	300.00	0.015	-0.0012	0.0122	0.0122
Seismic 330 deg M2	320.00	0.018	-0.0008	0.0119	0.0119
Seismic 330 deg M2	330.00	0.020	-0.0007	0.0105	0.0105
Seismic 330 deg M2	356.42	0.025	-0.0003	0.0154	0.0154
Seismic 330 deg M2	396.42	0.039	-0.0001	0.0265	0.0265
Seismic 330 deg M2	406.79	0.044	0.0000	0.0286	0.0286
Seismic 330 deg M2	416.42	0.049	0.0000	0.0279	0.0279
Seismic 330 deg M2	419.62	0.050	0.0000	0.0365	0.0365
Seismic 330 deg M2	420.37	0.051	0.0000	0.0317	0.0317
Seismic 330 deg M2	426.79	0.054	0.0000	0.0268	0.0268
Seismic 330 deg M2	456.42	0.067	0.0000	0.0272	0.0272
Seismic 330 deg M2	460.00	0.068	0.0000	0.0407	0.0407
Seismic 330 deg M2	476.42	0.076	0.0000	0.0280	0.0280
Seismic 330 deg M2	480.00	0.078	0.0000	0.0301	0.0301
Serviceability - 60 mph Wind Normal	3.40	0.006	0.0123	0.1074	0.1078
Serviceability - 60 mph Wind Normal	10.08	0.016	0.0122	0.1075	0.1077
Serviceability - 60 mph Wind Normal	80.37	0.098	0.0093	0.0679	0.0684
Serviceability - 60 mph Wind Normal	90.00	0.105	0.0093	0.0444	0.0453
Serviceability - 60 mph Wind Normal	130.00	0.125	0.0103	0.0177	0.0195
Serviceability - 60 mph Wind Normal	140.00	0.129	0.0107	0.0599	0.0604
Serviceability - 60 mph Wind Normal	156.42	0.140	0.0087	0.0339	0.0350
Serviceability - 60 mph Wind Normal	170.00	0.146	0.0072	0.0185	0.0198
Serviceability - 60 mph Wind Normal	180.00	0.148	0.0062	0.0021	0.0064
Serviceability - 60 mph Wind Normal	190.00	0.146	0.0052	0.0126	0.0129
Serviceability - 60 mph Wind Normal	220.00	0.127	0.0026	0.0477	0.0477
Serviceability - 60 mph Wind Normal	300.00	0.064	-0.0012	0.0296	0.0297
Serviceability - 60 mph Wind Normal	320.00	0.058	-0.0008	0.0307	0.0307
Serviceability - 60 mph Wind Normal	330.00	0.058	-0.0007	0.0046	0.0046
Serviceability - 60 mph Wind Normal	356.42	0.054	-0.0004	0.0080	0.0080
Serviceability - 60 mph Wind Normal	396.42	0.054	-0.0002	0.0266	0.0266
Serviceability - 60 mph Wind Normal	406.79	0.055	-0.0002	0.0057	0.0057
Serviceability - 60 mph Wind Normal	416.42	0.055	-0.0001	0.0111	0.0111
Serviceability - 60 mph Wind Normal	419.62	0.054	-0.0001	0.0295	0.0295
Serviceability - 60 mph Wind Normal	420.37	0.053	-0.0001	0.0280	0.0280
Serviceability - 60 mph Wind Normal	426.79	0.050	-0.0001	0.0209	0.0209
Serviceability - 60 mph Wind Normal	456.42	0.024	0.0001	0.0717	0.0717
Serviceability - 60 mph Wind Normal	460.00	0.020	0.0001	0.0453	0.0453

Site Number: 36075

Code:

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Serviceability - 60 mph Wind Normal	476.42	0.006	0.0001	0.0560	0.0560
Serviceability - 60 mph Wind Normal	480.00	0.004	0.0001	0.1086	0.1086
Serviceability - 60 mph Wind 60 deg	3.40	0.006	0.0129	0.1008	0.1013
Serviceability - 60 mph Wind 60 deg	10.08	0.015	0.0132	0.0948	0.0952
Serviceability - 60 mph Wind 60 deg	80.37	0.093	0.0096	0.0675	0.0679
Serviceability - 60 mph Wind 60 deg	90.00	0.100	0.0096	0.0507	0.0514
Serviceability - 60 mph Wind 60 deg	130.00	0.129	0.0101	0.0358	0.0369
Serviceability - 60 mph Wind 60 deg	140.00	0.136	0.0104	0.0751	0.0755
Serviceability - 60 mph Wind 60 deg	156.42	0.154	0.0086	0.0615	0.0618
Serviceability - 60 mph Wind 60 deg	170.00	0.167	0.0071	0.0484	0.0489
Serviceability - 60 mph Wind 60 deg	180.00	0.174	0.0061	0.0351	0.0356
Serviceability - 60 mph Wind 60 deg	190.00	0.178	0.0051	0.0133	0.0141
Serviceability - 60 mph Wind 60 deg	220.00	0.177	0.0022	0.0107	0.0107
Serviceability - 60 mph Wind 60 deg	300.00	0.162	-0.0001	0.0139	0.0141
Serviceability - 60 mph Wind 60 deg	320.00	0.165	0.0002	0.0298	0.0298
Serviceability - 60 mph Wind 60 deg	330.00	0.168	0.0002	0.0125	0.0125
Serviceability - 60 mph Wind 60 deg	356.42	0.173	0.0003	0.0150	0.0150
Serviceability - 60 mph Wind 60 deg	396.42	0.189	0.0003	0.0326	0.0326
Serviceability - 60 mph Wind 60 deg	406.79	0.195	0.0002	0.0354	0.0354
Serviceability - 60 mph Wind 60 deg	416.42	0.200	-0.0001	0.0216	0.0216
Serviceability - 60 mph Wind 60 deg	419.62	0.201	-0.0002	0.0166	0.0166
Serviceability - 60 mph Wind 60 deg	420.37	0.201	-0.0002	0.0110	0.0110
Serviceability - 60 mph Wind 60 deg	426.79	0.201	-0.0004	0.0165	0.0165
Serviceability - 60 mph Wind 60 deg	456.42	0.190	-0.0013	0.0600	0.0600
Serviceability - 60 mph Wind 60 deg	460.00	0.188	-0.0014	0.0130	0.0131
Serviceability - 60 mph Wind 60 deg	476.42	0.181	-0.0021	0.0197	0.0198
Serviceability - 60 mph Wind 60 deg	480.00	0.180	-0.0021	0.1734	0.1734
Serviceability - 60 mph Wind 90 deg	3.40	0.007	0.0255	0.1053	0.1077
Serviceability - 60 mph Wind 90 deg	10.08	0.016	0.0256	0.1020	0.1043
Serviceability - 60 mph Wind 90 deg	80.37	0.096	0.0222	0.0686	0.0720
Serviceability - 60 mph Wind 90 deg	90.00	0.103	0.0220	0.0487	0.0533
Serviceability - 60 mph Wind 90 deg	130.00	0.128	0.0215	0.0297	0.0358
Serviceability - 60 mph Wind 90 deg	140.00	0.134	0.0215	0.0677	0.0704
Serviceability - 60 mph Wind 90 deg	156.42	0.148	0.0209	0.0512	0.0543
Serviceability - 60 mph Wind 90 deg	170.00	0.159	0.0204	0.0385	0.0436
Serviceability - 60 mph Wind 90 deg	180.00	0.165	0.0201	0.0262	0.0330
Serviceability - 60 mph Wind 90 deg	190.00	0.166	0.0199	0.0170	0.0259
Serviceability - 60 mph Wind 90 deg	220.00	0.158	0.0191	0.0374	0.0409
Serviceability - 60 mph Wind 90 deg	300.00	0.128	0.0214	0.0297	0.0354
Serviceability - 60 mph Wind 90 deg	320.00	0.129	0.0172	0.0159	0.0234
Serviceability - 60 mph Wind 90 deg	330.00	0.130	0.0151	0.0149	0.0209
Serviceability - 60 mph Wind 90 deg	356.42	0.133	0.0104	0.0206	0.0231
Serviceability - 60 mph Wind 90 deg	396.42	0.143	0.0052	0.0168	0.0175
Serviceability - 60 mph Wind 90 deg	406.79	0.149	0.0042	0.0245	0.0248
Serviceability - 60 mph Wind 90 deg	416.42	0.151	0.0035	0.0169	0.0172
Serviceability - 60 mph Wind 90 deg	419.62	0.152	0.0033	0.0260	0.0262
Serviceability - 60 mph Wind 90 deg	420.37	0.152	0.0033	0.0213	0.0215
Serviceability - 60 mph Wind 90 deg	426.79	0.152	0.0031	0.0372	0.0374
Serviceability - 60 mph Wind 90 deg	456.42	0.138	0.0029	0.0890	0.0890
Serviceability - 60 mph Wind 90 deg	460.00	0.136	0.0030	0.0396	0.0397
Serviceability - 60 mph Wind 90 deg	476.42	0.129	0.0037	0.0431	0.0432
Serviceability - 60 mph Wind 90 deg	480.00	0.127	0.0038	0.2001	0.2002
Serviceability - 60 mph Wind 120 deg	3.40	0.006	0.0123	0.1075	0.1079
Serviceability - 60 mph Wind 120 deg	10.08	0.016	0.0122	0.1075	0.1078
Serviceability - 60 mph Wind 120 deg	80.37	0.098	0.0093	0.0680	0.0684
Serviceability - 60 mph Wind 120 deg	90.00	0.106	0.0093	0.0444	0.0454
Serviceability - 60 mph Wind 120 deg	130.00	0.126	0.0103	0.0177	0.0195
Serviceability - 60 mph Wind 120 deg	140.00	0.129	0.0107	0.0600	0.0605
Serviceability - 60 mph Wind 120 deg	156.42	0.140	0.0088	0.0339	0.0350
Serviceability - 60 mph Wind 120 deg	170.00	0.147	0.0073	0.0184	0.0198
Serviceability - 60 mph Wind 120 deg	180.00	0.148	0.0063	0.0020	0.0065
Serviceability - 60 mph Wind 120 deg	190.00	0.146	0.0053	0.0229	0.0231

Site Number: 36075

Code:

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Serviceability - 60 mph Wind 120 deg	220.00	0.127	0.0026	0.0472	0.0472
Serviceability - 60 mph Wind 120 deg	300.00	0.065	0.0006	0.0284	0.0285
Serviceability - 60 mph Wind 120 deg	320.00	0.060	0.0003	0.0213	0.0214
Serviceability - 60 mph Wind 120 deg	330.00	0.060	0.0003	0.0151	0.0151
Serviceability - 60 mph Wind 120 deg	356.42	0.056	0.0002	0.0238	0.0238
Serviceability - 60 mph Wind 120 deg	396.42	0.055	0.0002	0.0212	0.0212
Serviceability - 60 mph Wind 120 deg	406.79	0.056	0.0005	0.0048	0.0048
Serviceability - 60 mph Wind 120 deg	416.42	0.056	0.0008	0.0147	0.0147
Serviceability - 60 mph Wind 120 deg	419.62	0.054	0.0009	0.0319	0.0319
Serviceability - 60 mph Wind 120 deg	420.37	0.054	0.0009	0.0321	0.0322
Serviceability - 60 mph Wind 120 deg	426.79	0.051	0.0013	0.0463	0.0463
Serviceability - 60 mph Wind 120 deg	456.42	0.020	0.0033	0.0991	0.0991
Serviceability - 60 mph Wind 120 deg	460.00	0.016	0.0036	0.0529	0.0530
Serviceability - 60 mph Wind 120 deg	476.42	0.007	0.0056	0.0585	0.0587
Serviceability - 60 mph Wind 120 deg	480.00	0.011	0.0059	0.1981	0.1982
Serviceability - 60 mph Wind 180 deg	3.40	0.006	0.0129	0.1009	0.1014
Serviceability - 60 mph Wind 180 deg	10.08	0.015	0.0132	0.0948	0.0952
Serviceability - 60 mph Wind 180 deg	80.37	0.093	0.0097	0.0675	0.0679
Serviceability - 60 mph Wind 180 deg	90.00	0.100	0.0096	0.0506	0.0514
Serviceability - 60 mph Wind 180 deg	130.00	0.129	0.0101	0.0357	0.0368
Serviceability - 60 mph Wind 180 deg	140.00	0.135	0.0104	0.0750	0.0754
Serviceability - 60 mph Wind 180 deg	156.42	0.154	0.0086	0.0615	0.0617
Serviceability - 60 mph Wind 180 deg	170.00	0.167	0.0071	0.0484	0.0489
Serviceability - 60 mph Wind 180 deg	180.00	0.174	0.0061	0.0350	0.0355
Serviceability - 60 mph Wind 180 deg	190.00	0.178	0.0051	0.0217	0.0223
Serviceability - 60 mph Wind 180 deg	220.00	0.177	0.0023	0.0109	0.0109
Serviceability - 60 mph Wind 180 deg	300.00	0.160	-0.0007	0.0137	0.0138
Serviceability - 60 mph Wind 180 deg	320.00	0.163	-0.0005	0.0499	0.0499
Serviceability - 60 mph Wind 180 deg	330.00	0.167	-0.0004	0.0239	0.0239
Serviceability - 60 mph Wind 180 deg	356.42	0.171	-0.0003	0.0270	0.0270
Serviceability - 60 mph Wind 180 deg	396.42	0.187	-0.0001	0.0580	0.0580
Serviceability - 60 mph Wind 180 deg	406.79	0.194	0.0000	0.0379	0.0379
Serviceability - 60 mph Wind 180 deg	416.42	0.200	0.0000	0.0255	0.0255
Serviceability - 60 mph Wind 180 deg	419.62	0.201	0.0000	0.0207	0.0207
Serviceability - 60 mph Wind 180 deg	420.37	0.201	0.0000	0.0156	0.0156
Serviceability - 60 mph Wind 180 deg	426.79	0.202	0.0000	0.0165	0.0165
Serviceability - 60 mph Wind 180 deg	456.42	0.195	0.0001	0.0297	0.0297
Serviceability - 60 mph Wind 180 deg	460.00	0.194	0.0001	0.0114	0.0114
Serviceability - 60 mph Wind 180 deg	476.42	0.191	0.0001	0.0162	0.0162
Serviceability - 60 mph Wind 180 deg	480.00	0.192	0.0001	0.1481	0.1481
Serviceability - 60 mph Wind 210 deg	3.40	0.007	0.0252	0.1053	0.1077
Serviceability - 60 mph Wind 210 deg	10.08	0.016	0.0252	0.1020	0.1042
Serviceability - 60 mph Wind 210 deg	80.37	0.096	0.0220	0.0685	0.0718
Serviceability - 60 mph Wind 210 deg	90.00	0.103	0.0218	0.0485	0.0531
Serviceability - 60 mph Wind 210 deg	130.00	0.128	0.0214	0.0294	0.0355
Serviceability - 60 mph Wind 210 deg	140.00	0.133	0.0214	0.0674	0.0701
Serviceability - 60 mph Wind 210 deg	156.42	0.148	0.0207	0.0510	0.0540
Serviceability - 60 mph Wind 210 deg	170.00	0.159	0.0201	0.0383	0.0433
Serviceability - 60 mph Wind 210 deg	180.00	0.165	0.0198	0.0259	0.0326
Serviceability - 60 mph Wind 210 deg	190.00	0.166	0.0195	0.0217	0.0287
Serviceability - 60 mph Wind 210 deg	220.00	0.158	0.0190	0.0373	0.0409
Serviceability - 60 mph Wind 210 deg	300.00	0.125	0.0212	0.0293	0.0349
Serviceability - 60 mph Wind 210 deg	320.00	0.126	0.0163	0.0412	0.0443
Serviceability - 60 mph Wind 210 deg	330.00	0.127	0.0140	0.0230	0.0267
Serviceability - 60 mph Wind 210 deg	356.42	0.130	0.0088	0.0267	0.0278
Serviceability - 60 mph Wind 210 deg	396.42	0.141	0.0031	0.0478	0.0478
Serviceability - 60 mph Wind 210 deg	406.79	0.147	0.0016	0.0273	0.0274
Serviceability - 60 mph Wind 210 deg	416.42	0.150	0.0004	0.0206	0.0206
Serviceability - 60 mph Wind 210 deg	419.62	0.151	0.0001	0.0272	0.0272
Serviceability - 60 mph Wind 210 deg	420.37	0.151	-0.0001	0.0211	0.0211
Serviceability - 60 mph Wind 210 deg	426.79	0.151	-0.0008	0.0319	0.0320
Serviceability - 60 mph Wind 210 deg	456.42	0.143	-0.0040	0.0700	0.0701

Site Number: 36075

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Serviceability - 60 mph Wind 210 deg	460.00	0.142	-0.0044	0.0374	0.0376
Serviceability - 60 mph Wind 210 deg	476.42	0.140	-0.0064	0.0413	0.0418
Serviceability - 60 mph Wind 210 deg	480.00	0.141	-0.0066	0.1665	0.1667
Serviceability - 60 mph Wind 240 deg	3.40	0.006	0.0124	0.1075	0.1079
Serviceability - 60 mph Wind 240 deg	10.08	0.016	0.0122	0.1075	0.1078
Serviceability - 60 mph Wind 240 deg	80.37	0.098	0.0093	0.0680	0.0684
Serviceability - 60 mph Wind 240 deg	90.00	0.106	0.0093	0.0444	0.0454
Serviceability - 60 mph Wind 240 deg	130.00	0.126	0.0103	0.0177	0.0195
Serviceability - 60 mph Wind 240 deg	140.00	0.129	0.0107	0.0600	0.0605
Serviceability - 60 mph Wind 240 deg	156.42	0.140	0.0087	0.0339	0.0350
Serviceability - 60 mph Wind 240 deg	170.00	0.147	0.0072	0.0184	0.0198
Serviceability - 60 mph Wind 240 deg	180.00	0.148	0.0061	0.0021	0.0063
Serviceability - 60 mph Wind 240 deg	190.00	0.146	0.0051	0.0231	0.0233
Serviceability - 60 mph Wind 240 deg	220.00	0.127	0.0026	0.0470	0.0470
Serviceability - 60 mph Wind 240 deg	300.00	0.065	-0.0019	0.0280	0.0281
Serviceability - 60 mph Wind 240 deg	320.00	0.060	-0.0012	0.0184	0.0185
Serviceability - 60 mph Wind 240 deg	330.00	0.060	-0.0010	0.0152	0.0152
Serviceability - 60 mph Wind 240 deg	356.42	0.056	-0.0006	0.0225	0.0225
Serviceability - 60 mph Wind 240 deg	396.42	0.055	-0.0004	0.0228	0.0228
Serviceability - 60 mph Wind 240 deg	406.79	0.056	-0.0005	0.0041	0.0041
Serviceability - 60 mph Wind 240 deg	416.42	0.056	-0.0008	0.0144	0.0144
Serviceability - 60 mph Wind 240 deg	419.62	0.054	-0.0009	0.0327	0.0327
Serviceability - 60 mph Wind 240 deg	420.37	0.054	-0.0010	0.0319	0.0320
Serviceability - 60 mph Wind 240 deg	426.79	0.051	-0.0013	0.0464	0.0464
Serviceability - 60 mph Wind 240 deg	456.42	0.020	-0.0033	0.0975	0.0976
Serviceability - 60 mph Wind 240 deg	460.00	0.016	-0.0036	0.0528	0.0529
Serviceability - 60 mph Wind 240 deg	476.42	0.007	-0.0057	0.0589	0.0592
Serviceability - 60 mph Wind 240 deg	480.00	0.011	-0.0059	0.1982	0.1983
Serviceability - 60 mph Wind 300 deg	3.40	0.006	0.0130	0.1008	0.1013
Serviceability - 60 mph Wind 300 deg	10.08	0.015	0.0133	0.0948	0.0952
Serviceability - 60 mph Wind 300 deg	80.37	0.093	0.0097	0.0675	0.0679
Serviceability - 60 mph Wind 300 deg	90.00	0.100	0.0096	0.0507	0.0515
Serviceability - 60 mph Wind 300 deg	130.00	0.129	0.0102	0.0358	0.0369
Serviceability - 60 mph Wind 300 deg	140.00	0.136	0.0105	0.0751	0.0755
Serviceability - 60 mph Wind 300 deg	156.42	0.154	0.0086	0.0615	0.0618
Serviceability - 60 mph Wind 300 deg	170.00	0.167	0.0071	0.0484	0.0489
Serviceability - 60 mph Wind 300 deg	180.00	0.174	0.0061	0.0351	0.0356
Serviceability - 60 mph Wind 300 deg	190.00	0.178	0.0051	0.0135	0.0145
Serviceability - 60 mph Wind 300 deg	220.00	0.177	0.0023	0.0116	0.0116
Serviceability - 60 mph Wind 300 deg	300.00	0.162	-0.0022	0.0153	0.0155
Serviceability - 60 mph Wind 300 deg	320.00	0.165	-0.0020	0.0273	0.0273
Serviceability - 60 mph Wind 300 deg	330.00	0.168	-0.0018	0.0125	0.0125
Serviceability - 60 mph Wind 300 deg	356.42	0.173	-0.0012	0.0165	0.0165
Serviceability - 60 mph Wind 300 deg	396.42	0.189	-0.0007	0.0313	0.0313
Serviceability - 60 mph Wind 300 deg	406.79	0.195	-0.0004	0.0355	0.0355
Serviceability - 60 mph Wind 300 deg	416.42	0.200	-0.0002	0.0214	0.0214
Serviceability - 60 mph Wind 300 deg	419.62	0.201	-0.0001	0.0175	0.0175
Serviceability - 60 mph Wind 300 deg	420.37	0.201	0.0001	0.0115	0.0115
Serviceability - 60 mph Wind 300 deg	426.79	0.201	0.0002	0.0166	0.0166
Serviceability - 60 mph Wind 300 deg	456.42	0.190	0.0013	0.0554	0.0554
Serviceability - 60 mph Wind 300 deg	460.00	0.188	0.0014	0.0139	0.0139
Serviceability - 60 mph Wind 300 deg	476.42	0.182	0.0020	0.0195	0.0196
Serviceability - 60 mph Wind 300 deg	480.00	0.180	0.0021	0.1741	0.1741
Serviceability - 60 mph Wind 330 deg	3.40	0.007	0.0252	0.1053	0.1077
Serviceability - 60 mph Wind 330 deg	10.08	0.016	0.0253	0.1020	0.1042
Serviceability - 60 mph Wind 330 deg	80.37	0.096	0.0220	0.0685	0.0718
Serviceability - 60 mph Wind 330 deg	90.00	0.103	0.0218	0.0485	0.0531
Serviceability - 60 mph Wind 330 deg	130.00	0.128	0.0214	0.0295	0.0355
Serviceability - 60 mph Wind 330 deg	140.00	0.133	0.0214	0.0674	0.0701
Serviceability - 60 mph Wind 330 deg	156.42	0.148	0.0207	0.0510	0.0540
Serviceability - 60 mph Wind 330 deg	170.00	0.159	0.0202	0.0383	0.0433
Serviceability - 60 mph Wind 330 deg	180.00	0.165	0.0198	0.0260	0.0327

Site Number: 36075

Code:

ANSI/TIA-222-G

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Site Name: Lee S Summit #1b, MO

Engineering Number: OAA715533_C3_02

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Customer: SPRINT NEXTEL

Serviceability - 60 mph Wind 330 deg	190.00	0.166	0.0196	0.0106	0.0223
Serviceability - 60 mph Wind 330 deg	220.00	0.158	0.0190	0.0381	0.0416
Serviceability - 60 mph Wind 330 deg	300.00	0.126	0.0213	0.0310	0.0364
Serviceability - 60 mph Wind 330 deg	320.00	0.127	0.0161	0.0301	0.0335
Serviceability - 60 mph Wind 330 deg	330.00	0.128	0.0138	0.0091	0.0165
Serviceability - 60 mph Wind 330 deg	356.42	0.131	0.0087	0.0107	0.0133
Serviceability - 60 mph Wind 330 deg	396.42	0.141	0.0036	0.0318	0.0319
Serviceability - 60 mph Wind 330 deg	406.79	0.147	0.0029	0.0254	0.0255
Serviceability - 60 mph Wind 330 deg	416.42	0.150	0.0025	0.0156	0.0158
Serviceability - 60 mph Wind 330 deg	419.62	0.151	0.0024	0.0224	0.0225
Serviceability - 60 mph Wind 330 deg	420.37	0.151	0.0024	0.0162	0.0164
Serviceability - 60 mph Wind 330 deg	426.79	0.151	0.0023	0.0099	0.0101
Serviceability - 60 mph Wind 330 deg	456.42	0.139	0.0030	0.0609	0.0609
Serviceability - 60 mph Wind 330 deg	460.00	0.137	0.0032	0.0304	0.0305
Serviceability - 60 mph Wind 330 deg	476.42	0.131	0.0041	0.0392	0.0394
Serviceability - 60 mph Wind 330 deg	480.00	0.130	0.0042	0.1338	0.1338