



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

April 17, 2018

Arthur Perkowski
Airosmith Development Incorporated
32 Clinton Street
Saratoga Springs, NY 12866

RE: **EM-SPRINT-023-180314** - Sprint notice of intent to modify an existing telecommunications facility located at 14 Canton Springs Road, Canton, Connecticut.

Dear Mr. Perkowski:

The Connecticut Siting Council (Council) is in receipt of your correspondence received on April 16, 2018 submitted in response to the Council's March 26, 2018 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MB/FOC/cg





STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

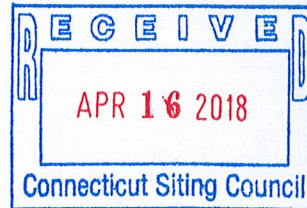
Ten Franklin Square, New Britain, CT 06051

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March 26, 2018



Arthur Perkowski
Airosmith Development, Inc.
32 Clinton Street
Saratoga Springs, NY 12866

RE: EM-SPRINT-023-180314 - Sprint notice of intent to modify an existing telecommunications facility located at 14 Canton Springs Road, Canton, Connecticut.

Dear Mr. Perkowski:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on March 14, 2018.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a discrepancy between the Structural Analysis Report ATC Site Number 411256 dated October 4, 2017 and the site plan sheet number A-2 which references a "Sprint Project Mount Analysis Report dated December 26, 2017." The Structural Analysis Report does not account for the data referenced in the "Mount Analysis Report" which requires replacement of the platform mount.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Airosmith Development provide an Updated Structural Analysis Report including the replacement mount on or before April 23, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to April 23, 2018.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman signature

Melanie Bachman
Executive Director

MAB/FC

- c: The Honorable Leslee Hill, First Selectman, Town of Canton
Neil Pade, Director of Planning and Community Development, Town of Canton
Canton Volunteer Fire Department, property owner
Justine Paul, American Tower Corporation

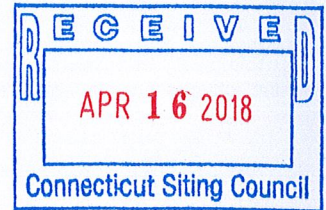


CONNECTICUT SITING COUNCIL

Affirmative Action / Equal Opportunity Employer



AMERICAN TOWER®
CORPORATION



This report was prepared for American Tower Corporation by



**TOWER
ENGINEERING
PROFESSIONALS**

Structural Analysis Report

Structure : 140 ft Monopole
ATC Site Name : Canton CT, CT
ATC Site Number : 411256
Engineering Number : OAA713339_C3_02
Proposed Carrier : Sprint Nextel
Carrier Site Name : Avon - Verizon
Carrier Site Number : CT54XC760
Site Location : 14 Canton Springs Road
Canton, CT 06019-2401
41.822900,-72.895200
County : Hartford
Date : February 26, 2018
Max Usage : 62%
Result : Pass

Prepared By:
Connor Klein
TEP

Reviewed By:



COA: PEC.0001553



Table of Contents

Introduction 1

Supporting Documents 1

Analysis 1

Conclusion..... 1

Existing and Reserved Equipment 2

Equipment to be Removed..... 2

Proposed Equipment 3

Structure Usages 3

Foundations 3

Deflection, Twist, and Sway..... 3

Standard Conditions 4

Calculations Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 140 ft monopole to reflect the change in loading by Sprint Nextel.

Supporting Documents

Tower Drawings	EI Project #4960, dated May 20, 1999
Foundation Drawing	EI Project #4960, dated May 21, 1999
Geotechnical Report	Clarence Welti Project #Banm Tower Site, dated November 23, 1998

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:	93 mph (3-Second Gust, V_{asd}) / 119 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Spectral Response:	$S_s = 0.18$, $S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

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

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
140.0	148.0	1	18' Omni	Stand-Off	(2) 7/8" Coax	Other
130.0	130.0	6	CCI DTMABP7819VG12A	Platform w/ Handrails	(12) 7/8" Coax (4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk (1) 3" Conduit	AT&T Mobility
		2	Raycap DC6-48-60-0-8F			
		6	Ericsson RRUS-11 (50 lbs.)			
		3	Ericsson RRUS 32 (50.8 lbs)			
		1	KMW AM-X-CD-14-65-00T-RET			
		3	Kathrein 800-10121			
		3	CSS DUO1417-8686			
		1	Andrew SBNHH-1D65A (33.5 lbs)			
		1	KMW AM-X-CD-17-65-00T-RET (96" Height)			
		1	Andrew SBNH-1D6565C (60.8 lbs)			
		2	CCI HPA-65R-BUU-H8			
120.0	120.0	3	Samsung 700/850MHz Dual Band RRH	Platform w/ Handrails	(16) 1 5/8" Coax (2) 1 5/8" Fiber	Verizon
		3	Samsung PCS/AWS Dual Band RRH			
		2	RFS DB-T1-6Z-8AB-0Z			
		4	Antel LPA-80080/4CF ____			
		2	Antel LPA-80063/4CF ____			
		3	Antel BXA-70063-6CF-EDIN-2			
		6	Commscope SBNHH-1D65B			
		1	VZW Unused Reserve: 15,989 sq in			
100.0	100.0	2	Kathrein Smart Bias Tee	Low Profile Platform	(8) 1 5/8" Coax	T-Mobile
		2	Ericsson KRY 112 489/2			
		2	RFS APXV18-209014-C			
		2	Commscope LNX-6515DS-VTM			
90.0	90.0	1	PCTEL GPS-TMG-HR-26N	Low Profile Platform	(3) 1 1/4" Hybriflex (1) 1/2" Coax	Sprint Nextel
		3	Alcatel-Lucent 800MHz RRH			
		3	Alcatel-Lucent 1900MHz 4X45 RRH			
		3	RFS APXVSPP18-C-A20			
83.0	83.0	3	Kathrein 742 213	Low Profile Platform	-	Metro PCS

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
90.0	90.0	-	-	-	(3) 1 5/8" Fiber	Sprint Nextel



Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
90.0	90.0	3	Alcatel-Lucent RRH2x50-08	Low Profile Platform	(1) 1 1/4" Hybriflex	Sprint Nextel
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
		3	Commscope DT465B-2XR			

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 inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	44%	Pass
Shaft	47%	Pass
Base Plate	62%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3,921.8	5,294.4	2,712.1	51%
Shear (Kips)	38.7	52.2	26.3	50%

* 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 and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
90.0	Alcatel-Lucent RRH2x50-08	Sprint Nextel	0.605	0.817
	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	Commscope DT465B-2XR			

*Deflection 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 performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

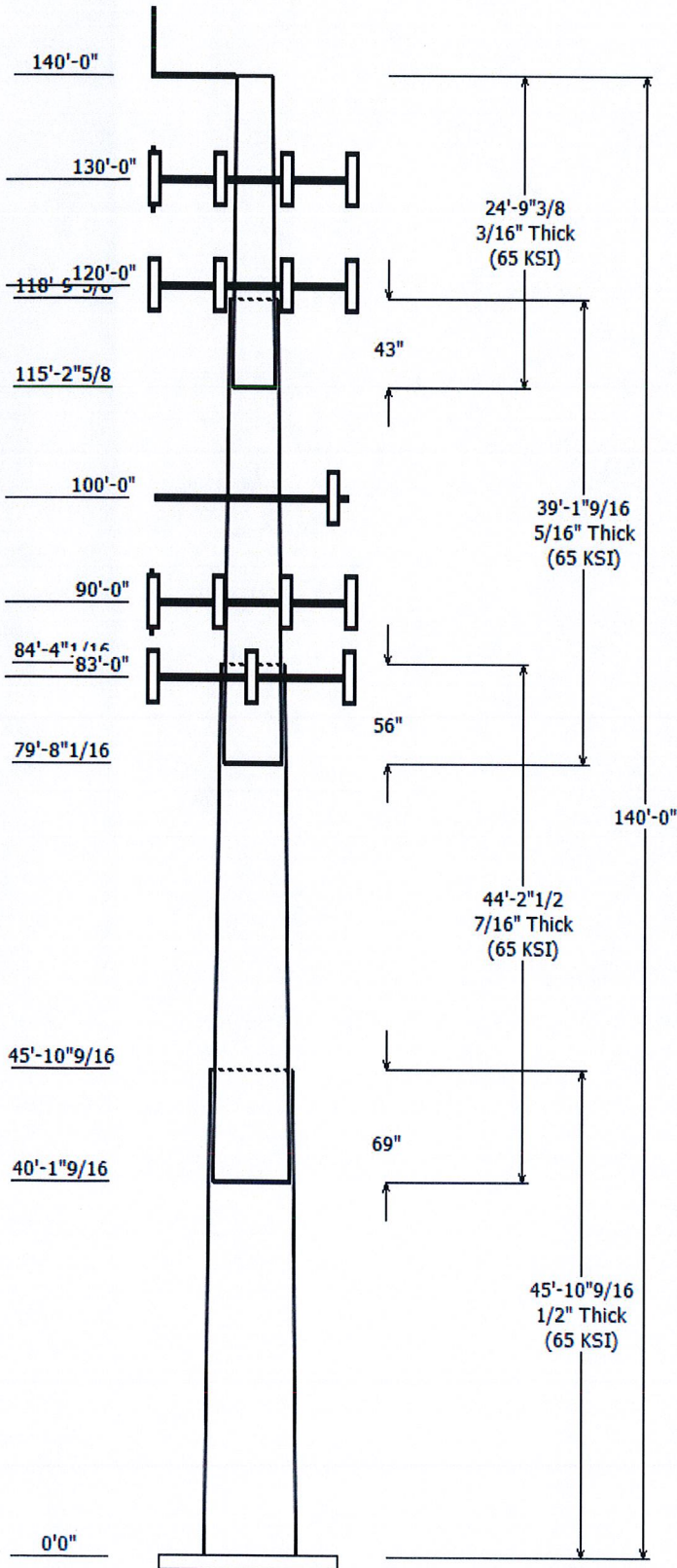
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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

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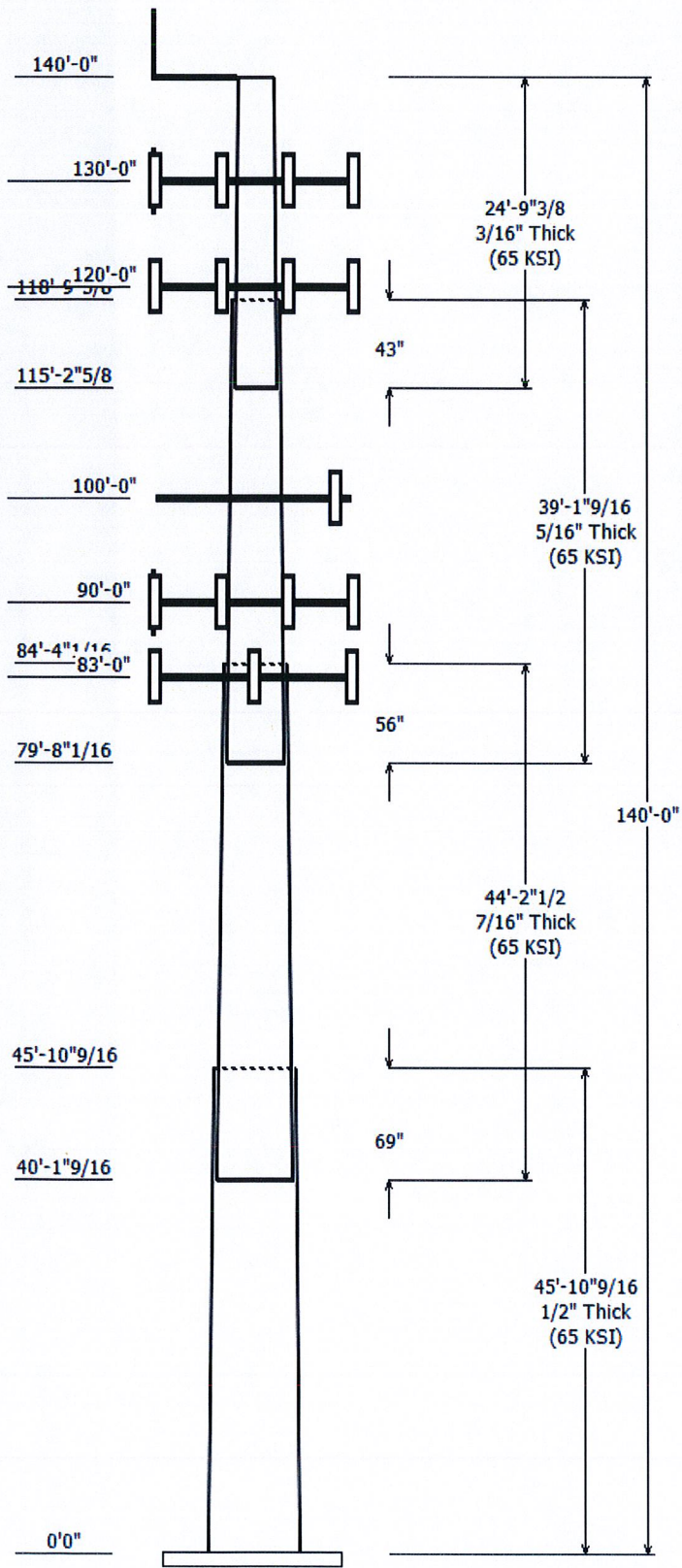


Job Information	
Pole : 411256	Code: ANSI/TIA-222-G
Location : CANTON CT, CT	
Description : 140 ft Monopole	
Client : SPRINT NEXTEL	Struct Class : II
Shape : 18 Sides	Exposure : B
Height : 140.00 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.249089in/ft	

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Steel Shape	Steel Grade (ksi)
		Across Top	Across Bottom				
1	45.880	39.572	51.000	0.500	0.000	Round	65
2	44.210	30.867	41.879	0.438	Slip Joint	Round	65
3	39.130	22.907	32.654	0.313	Slip Joint	Round	65
4	24.780	18.003	24.175	0.188	Slip Joint	Round	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
140.000	148.000	1	18' Omni
140.000	140.000	1	Stand-Off
130.000	130.000	1	KMW AM-X-CD-14-65-00T-RET
130.000	130.000	2	CCI HPA-65R-BUU-H8
130.000	130.000	1	KMW AM-X-CD-17-65-00T-RET
130.000	130.000	1	Andrew SBNHH-1D65A (33.5 lbs)
130.000	130.000	3	Ericsson RRUS 32 (50.8 lbs)
130.000	130.000	2	Raycap DC6-48-60-0-8F
130.000	130.000	1	Flat Platform w/ Handrails
130.000	130.000	3	Kathrein Scala 800-10121
130.000	130.000	1	Andrew SBNH-1D6565C (60.8 lbs)
130.000	130.000	3	CSS DUO1417-8686
130.000	130.000	6	CCI DTMABP7819VG12A
130.000	130.000	6	Ericsson RRUS-11 (50 lbs.)
120.000	120.000	1	VZW Unused Reserve: 15,989 sq
120.000	120.000	3	Samsung 700/850MHz Dual Band
120.000	120.000	3	Samsung PCS/AWS Dual Band
120.000	120.000	6	Commscope SBNHH-1D65B
120.000	120.000	2	RFS DB-T1-6Z-8AB-0Z
120.000	120.000	1	Flat Platform w/ Handrails
120.000	120.000	3	Amphenol Antel BXA-70063-6CF-
120.000	120.000	2	Antel LPA-80063/4CF
120.000	120.000	4	Antel LPA-80080/4CF
100.000	100.000	1	Flat Low Profile Platform
100.000	100.000	2	Commscope LNX-6515DS-VTM
100.000	100.000	2	RFS APXV18-209014-C
100.000	100.000	2	Ericsson KRY 112 489/2
100.000	100.000	2	Kathrein Smart Bias Tee
90.000	90.000	1	Flat Low Profile Platform
90.000	90.000	3	Commscope DT465B-2XR
90.000	90.000	3	RFS APXVSP18-C-A20
90.000	90.000	3	Alcatel-Lucent TD-RRH8x20-25 w
90.000	90.000	3	Alcatel-Lucent 1900 MHz 4X45 R
90.000	90.000	3	Alcatel-Lucent 800 MHz RRH
90.000	90.000	3	Alcatel-Lucent RRH2x50-08
90.000	90.000	1	PCTEL GPS-TMG-HR-26N
83.000	83.000	1	Flat Low Profile Platform
83.000	83.000	3	Kathrein Scala 742 213

Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		



0.000	90.000	1 1/4" Hybriflex	No
0.000	90.000	1 1/4" Hybriflex	No
0.000	90.000	1/2" Coax	No
0.000	100.00	1 5/8" Coax	Yes
0.000	120.00	1 5/8" Coax	No
0.000	120.00	1 5/8" Fiber	No
0.000	130.00	0.39" Fiber Trunk	No
0.000	130.00	0.78" 8 AWG 6	No
0.000	130.00	3" Conduit	No
0.000	130.00	7/8" Coax	No
0.000	140.00	7/8" Coax	No

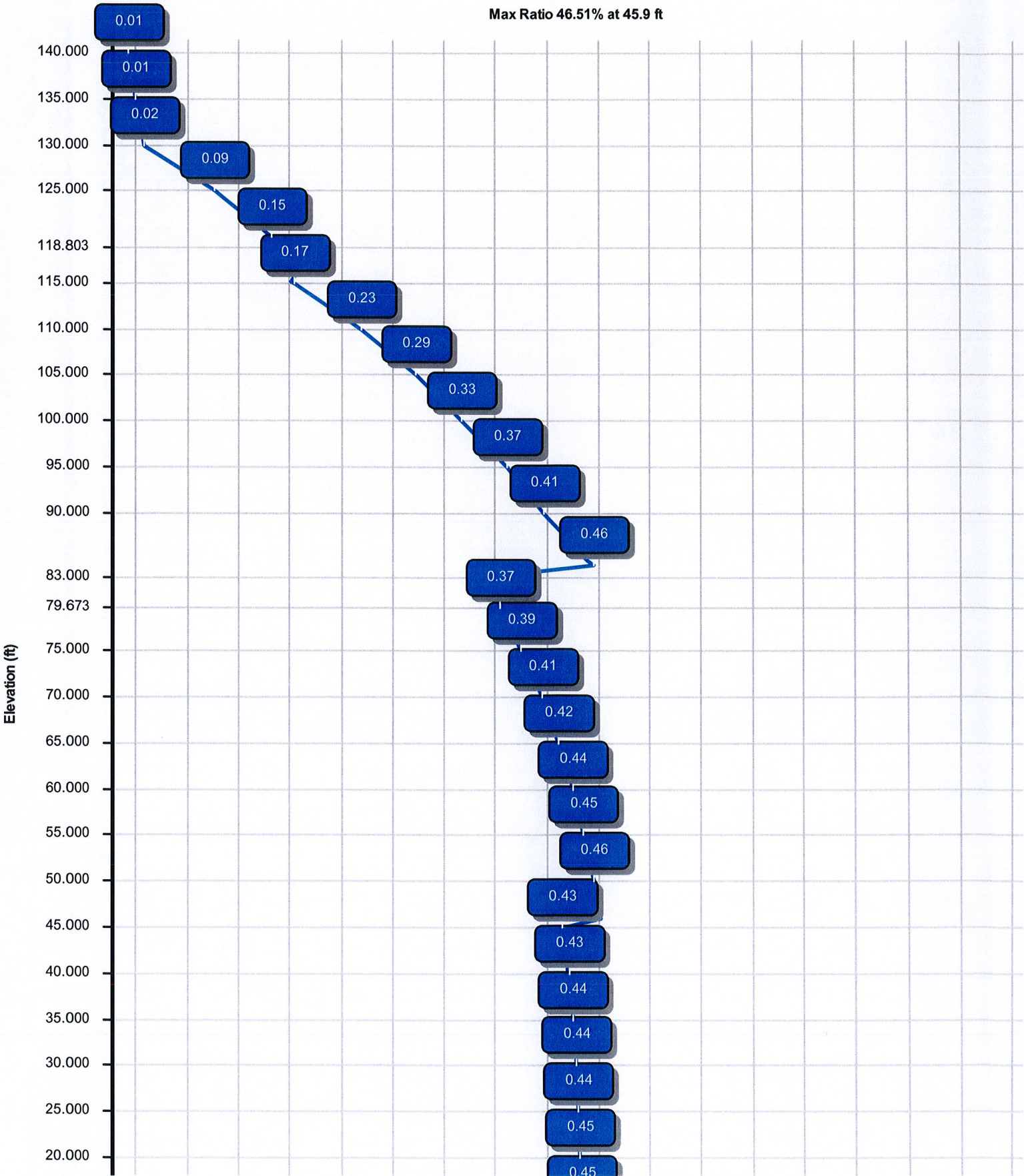
Load Cases	
1.2D + 1.6W	93 mph with No Ice
0.9D + 1.6W	93 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2712.07	26.31	50.11
0.9D + 1.6W	2685.82	26.29	37.57
1.2D + 1.0Di + 1.0Wi	883.67	8.44	83.97
(1.2 + 0.2Sds) * DL + E ELFM	196.82	1.86	49.82
(1.2 + 0.2Sds) * DL + E EMAM	170.40	1.71	49.82
(0.9 - 0.2Sds) * DL + E ELFM	194.57	1.86	34.66
(0.9 - 0.2Sds) * DL + E EMAM	168.31	1.71	34.66
1.0D + 1.0W	701.43	6.84	41.78

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

Load Case : 1.2D + 1.6W

Max Ratio 46.51% at 45.9 ft



Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

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Customer: SPRINT NEXTEL

Analysis Parameters

Location :	HARTFORD County, CT	Height (ft) :	140
Code :	ANSI/TIA-222-G	Base Diameter (in) :	51.00
Shape :	18 Sides	Top Diameter (in) :	18.00
Pole Type :	Taper	Taper (in/ft) :	0.249
Pole Manufacturer :	EEL	Rotation (deg) :	0.00

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	93 mph
Exposure Category:	B	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	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):	2.00		
T _L (sec):	6	p:	1.3
S _s :	0.180	S ₁ :	0.064
F _a :	1.600	F _v :	2.400
S _{ds} :	0.192	S _{d1} :	0.102
		C _s :	0.034
		C _s Max:	0.034
		C _s Min:	0.030

Load Cases

1.2D + 1.6W	93 mph with No Ice
0.9D + 1.6W	93 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
(1.2 + 0.2S _{ds}) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2S _{ds}) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2S _{ds}) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2S _{ds}) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

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Customer: SPRINT NEXTEL

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	45.880	0.5000	65		0.00	11,096	51.00	0.00	80.14	25821.9	16.57	102.00	39.572	45.88	62.00	11959.3	12.54	79.14	0.249089
2-18	44.210	0.4375	65	Slip	69.00	7,507	41.87	40.13	57.54	12486.2	15.47	95.72	30.867	84.34	42.25	4943.1	11.03	70.55	0.249089
3-18	39.130	0.3125	65	Slip	56.00	3,628	32.65	79.67	32.08	4239.2	17.01	104.49	22.907	118.80	22.41	1445.5	11.51	73.30	0.249089
4-18	24.780	0.1875	65	Slip	43.00	1,049	24.17	115.22	14.28	1037.8	21.32	128.93	18.003	140.00	10.60	425.1	15.52	96.01	0.249089
Shaft Weight						23,279													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
140.00	18' Omni	1	55.00	5.400	1.00	401.06	13.991	1.00	0.000	8.000
140.00	Stand-Off	1	100.00	3.000	1.00	0.00	0.000	1.00	0.000	0.000
130.00	Andrew SBNH-1D6565C (60.8	1	60.80	11.450	0.70	362.41	15.707	0.70	0.000	0.000
130.00	Andrew SBNHH-1D65A (33.5	1	33.50	5.880	0.69	310.38	8.602	0.69	0.000	0.000
130.00	CCI DTMABP7819VG12A	6	19.20	0.970	0.50	68.94	1.550	0.50	0.000	0.000
130.00	CCI HPA-65R-BUU-H8	2	68.00	12.980	0.67	478.56	16.130	0.67	0.000	0.000
130.00	CSS DUO1417-8686	3	20.30	5.790	0.70	254.17	7.166	0.70	0.000	0.000
130.00	Ericsson RRUS 32 (50.8 lbs)	3	50.80	2.690	0.67	171.55	3.665	0.67	0.000	0.000
130.00	Ericsson RRUS-11 (50 lbs.)	6	50.00	2.570	0.67	139.61	3.949	0.67	0.000	0.000
130.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,868.17	69.968	1.00	0.000	0.000
130.00	Kathrein Scala 800-10121	3	44.10	5.160	0.68	194.78	7.929	0.68	0.000	0.000
130.00	KMW AM-X-CD-14-65-00T-	1	36.40	4.990	0.66	182.70	7.444	0.66	0.000	0.000
130.00	KMW AM-X-CD-17-65-00T-	1	59.50	11.310	0.68	404.01	13.503	0.68	0.000	0.000
130.00	Raycap DC6-48-60-0-8F	2	32.80	1.190	1.00	109.22	1.953	1.00	0.000	0.000
120.00	Amphenol Antel BXA-70063-	3	17.00	7.570	0.66	210.27	11.172	0.66	0.000	0.000
120.00	Antel LPA-80063/4CF	2	20.00	6.140	0.76	301.91	7.524	0.76	0.000	0.000
120.00	Antel LPA-80080/4CF	4	12.00	5.400	0.64	200.06	6.727	0.64	0.000	0.000
120.00	Commscope SBNHH-1D65B	6	50.70	8.170	0.69	331.40	9.908	0.69	0.000	0.000
120.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,855.95	69.788	1.00	0.000	0.000
120.00	RFS DB-T1-6Z-8AB-0Z	2	44.00	4.800	0.67	350.07	5.962	0.67	0.000	0.000
120.00	Samsung 700/850MHz Dual	3	70.30	1.880	0.50	167.89	2.639	0.50	0.000	0.000
120.00	Samsung PCS/AWS Dual	3	84.40	1.880	0.50	191.67	2.639	0.50	0.000	0.000
120.00	VZW Unused Reserve: 15,989	1	1504.70	111.12	1.00	4,669.43	390.551	1.00	0.000	0.000
100.00	Commscope LNX-6515DS-	2	50.30	11.450	0.70	406.11	13.589	0.70	0.000	0.000
100.00	Ericsson KRY 112 489/2	2	15.40	0.650	0.50	51.37	1.029	0.50	0.000	0.000
100.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,332.88	50.643	1.00	0.000	0.000
100.00	Kathrein Smart Bias Tee	2	3.30	0.090	0.50	14.28	0.313	0.50	0.000	0.000
100.00	RFS APXV18-209014-C	2	18.70	3.570	0.67	142.61	4.807	0.67	0.000	0.000
90.00	Alcatel-Lucent 1900 MHz	3	60.00	2.320	0.67	162.54	3.694	0.67	0.000	0.000
90.00	Alcatel-Lucent 800 MHz RRH	3	53.00	2.130	0.67	146.91	3.372	0.67	0.000	0.000
90.00	Alcatel-Lucent RRH2x50-08	3	52.90	1.700	0.50	150.02	2.417	0.50	0.000	0.000
90.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.050	0.67	190.25	5.741	0.67	0.000	0.000
90.00	Commscope DT465B-2XR	3	58.00	9.100	0.69	363.95	10.828	0.69	0.000	0.000
90.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,324.33	50.391	1.00	0.000	0.000
90.00	PCTEL GPS-TMG-HR-26N	1	0.60	0.090	1.00	6.76	0.319	1.00	0.000	0.000
90.00	RFS APXVSP18-C-A20	3	57.00	8.020	0.69	276.47	11.567	0.69	0.000	0.000
83.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,314.40	50.098	1.00	0.000	0.000
83.00	Kathrein Scala 742 213	3	22.00	5.140	0.67	175.58	6.773	0.67	0.000	0.000
Totals		90	13602.30			36,748.80			Number of Loadings : 38	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Width Flat (in)	Exposed To Wind	Carrier
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Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:15 PM

Customer: SPRINT NEXTEL

0.00	140.00	2 7/8" Coax	1.09	0.33	N	0.00	N	Other
0.00	130.00	2 0.39" Fiber Trunk	0.39	0.06	N	0.00	N	AT&T Mobility
0.00	130.00	4 0.78" 8 AWG 6	0.78	0.59	N	0.00	N	AT&T Mobility
0.00	130.00	1 3" Conduit	3.50	7.58	N	0.00	N	AT&T Mobility
0.00	130.00	12 7/8" Coax	1.09	0.33	N	0.00	N	AT&T Mobility
0.00	120.00	16 1 5/8" Coax	1.98	0.82	N	0.00	N	Verizon
0.00	120.00	2 1 5/8" Fiber	1.63	1.61	N	0.00	N	Verizon
0.00	100.00	8 1 5/8" Coax	1.98	0.82	N	1.98	Y	T-Mobile
0.00	90.00	3 1 1/4" Hybriflex Cable	1.54	1.00	N	0.00	N	Sprint Nextel
0.00	90.00	1 1 1/4" Hybriflex Cable	1.54	1.00	N	0.00	N	Sprint Nextel
0.00	90.00	1 1/2" Coax	0.63	0.15	N	0.00	N	Sprint Nextel

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:15 PM

Customer: SPRINT NEXTEL

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00		0.5000	51.000	80.141	25,821.9	16.57	102.00	81.9	997.2	0.0	0.0
5.00		0.5000	49.755	78.164	23,958.2	16.14	99.51	82.4	948.4	0.0	1,346.7
10.00		0.5000	48.509	76.188	22,186.3	15.70	97.02	82.6	900.8	0.0	1,313.1
15.00		0.5000	47.264	74.211	20,504.1	15.26	94.53	82.6	854.5	0.0	1,279.4
20.00		0.5000	46.018	72.235	18,909.1	14.82	92.04	82.6	809.3	0.0	1,245.8
25.00		0.5000	44.773	70.258	17,399.0	14.38	89.55	82.6	765.4	0.0	1,212.2
30.00		0.5000	43.527	68.282	15,971.6	13.94	87.05	82.6	722.7	0.0	1,178.6
35.00		0.5000	42.282	66.305	14,624.4	13.50	84.56	82.6	681.2	0.0	1,144.9
40.00		0.5000	41.036	64.329	13,355.2	13.06	82.07	82.6	641.0	0.0	1,111.3
40.13	Bot - Section 2	0.5000	41.004	64.278	13,323.2	13.05	82.01	82.6	640.0	0.0	28.4
45.00		0.5000	39.791	62.353	12,161.7	12.62	79.58	82.6	602.0	0.0	1,988.9
45.88	Top - Section 1	0.4375	40.447	55.556	11,235.8	14.89	92.45	82.6	547.1	0.0	353.0
50.00		0.4375	39.421	54.131	10,393.2	14.48	90.10	82.6	519.3	0.0	768.9
55.00		0.4375	38.175	52.401	9,428.6	13.98	87.26	82.6	486.5	0.0	906.3
60.00		0.4375	36.930	50.672	8,525.5	13.47	84.41	82.6	454.7	0.0	876.8
65.00		0.4375	35.684	48.943	7,682.1	12.97	81.56	82.6	424.0	0.0	847.4
70.00		0.4375	34.439	47.213	6,896.2	12.47	78.72	82.6	394.4	0.0	818.0
75.00		0.4375	33.193	45.484	6,165.8	11.97	75.87	82.6	365.9	0.0	788.6
79.67	Bot - Section 3	0.4375	32.029	43.867	5,531.5	11.50	73.21	82.6	340.2	0.0	710.4
80.00		0.4375	31.948	43.754	5,488.9	11.47	73.02	82.6	338.4	0.0	84.3
83.00		0.4375	31.201	42.717	5,107.5	11.16	71.32	82.6	322.4	0.0	764.2
84.34	Top - Section 2	0.3125	31.492	30.925	3,798.3	16.36	100.77	82.2	237.6	0.0	335.5
85.00		0.3125	31.327	30.762	3,738.6	16.27	100.25	82.3	235.1	0.0	69.3
90.00		0.3125	30.082	29.527	3,306.0	15.56	96.26	82.6	216.5	0.0	512.9
95.00		0.3125	28.837	28.291	2,908.2	14.86	92.28	82.6	198.6	0.0	491.9
100.00		0.3125	27.591	27.056	2,543.7	14.16	88.29	82.6	181.6	0.0	470.8
105.00		0.3125	26.346	25.821	2,210.9	13.45	84.31	82.6	165.3	0.0	449.8
110.00		0.3125	25.100	24.585	1,908.5	12.75	80.32	82.6	149.8	0.0	428.8
115.00		0.3125	23.855	23.350	1,635.1	12.05	76.34	82.6	135.0	0.0	407.8
115.22	Bot - Section 4	0.3125	23.800	23.296	1,623.7	12.02	76.16	82.6	134.4	0.0	17.5
118.80	Top - Section 3	0.1875	23.282	13.744	926.2	20.48	124.17	77.3	78.4	0.0	449.5
120.00		0.1875	22.984	13.566	890.8	20.20	122.58	77.6	76.3	0.0	55.6
125.00		0.1875	21.739	12.825	752.6	19.03	115.94	79.0	68.2	0.0	224.5
130.00		0.1875	20.493	12.084	629.5	17.86	109.30	80.4	60.5	0.0	211.9
135.00		0.1875	19.248	11.343	520.6	16.69	102.66	81.8	53.3	0.0	199.3
140.00		0.1875	18.003	10.602	425.1	15.52	96.01	82.6	46.5	0.0	186.7
23,278.9											

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:15 PM

Customer: SPRINT NEXTEL

Load Case: 1.2D + 1.6W

93 mph with No Ice

22 Iterations

Gust Response Factor 1.10

Wind Importance Factor 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		179.5	0.0					0.0	0.0	179.5	0.0	0.0	0.0
5.00		354.6	1,616.0					0.0	250.4	354.6	1,866.4	0.0	0.0
10.00		345.7	1,575.7					0.0	250.4	345.7	1,826.1	0.0	0.0
15.00		336.8	1,535.3					0.0	250.4	336.8	1,785.7	0.0	0.0
20.00		328.0	1,495.0					0.0	250.4	328.0	1,745.4	0.0	0.0
25.00		319.1	1,454.6					0.0	250.4	319.1	1,705.0	0.0	0.0
30.00		313.9	1,414.3					0.0	250.4	313.9	1,664.6	0.0	0.0
35.00		314.9	1,373.9					0.0	250.4	314.9	1,624.3	0.0	0.0
40.00		162.5	1,333.6					0.0	250.4	162.5	1,583.9	0.0	0.0
40.13	Bot - Section 2	162.6	34.1					0.0	6.5	162.6	40.6	0.0	0.0
45.00		187.1	2,386.7					0.0	243.9	187.1	2,630.5	0.0	0.0
45.88	Top - Section 1	162.8	423.6					0.0	44.1	162.8	467.7	0.0	0.0
50.00		296.5	922.6					0.0	206.3	296.5	1,129.0	0.0	0.0
55.00		323.6	1,087.5					0.0	250.4	323.6	1,337.9	0.0	0.0
60.00		321.0	1,052.2					0.0	250.4	321.0	1,302.6	0.0	0.0
65.00		317.3	1,016.9					0.0	250.4	317.3	1,267.3	0.0	0.0
70.00		312.8	981.6					0.0	250.4	312.8	1,232.0	0.0	0.0
75.00		297.7	946.3					0.0	250.4	297.7	1,196.7	0.0	0.0
79.67	Bot - Section 3	152.5	852.5					0.0	234.0	152.5	1,086.6	0.0	0.0
80.00		101.7	101.2					0.0	16.4	101.7	117.5	0.0	0.0
83.00	Appurtenance(s)	132.2	917.1	1,192.1	0.0	0.0	1,879.2	0.0	150.2	1,324.3	2,946.5	0.0	0.0
84.34	Top - Section 2	60.5	402.6					0.0	67.1	60.5	469.7	0.0	0.0
85.00		168.6	83.1					0.0	33.1	168.6	116.2	0.0	0.0
90.00	Appurtenance(s)	293.6	615.4	2,493.2	0.0	0.0	3,064.0	0.0	250.4	2,786.8	3,929.8	0.0	0.0
95.00		285.8	590.2					0.0	225.5	285.8	815.7	0.0	0.0
100.00	Appurtenance(s)	277.5	565.0	1,585.7	0.0	0.0	2,010.5	0.0	225.5	1,863.2	2,801.0	0.0	0.0
105.00		268.7	539.8					0.0	186.1	268.7	725.9	0.0	0.0
110.00		259.5	514.6					0.0	186.1	259.5	700.7	0.0	0.0
115.00		132.8	489.3					0.0	186.1	132.8	675.5	0.0	0.0
115.22	Bot - Section 4	95.0	21.0					0.0	8.2	95.0	29.1	0.0	0.0
118.80	Top - Section 3	118.8	539.4					0.0	133.4	118.8	672.8	0.0	0.0
120.00	Appurtenance(s)	148.5	66.7	8,346.1	0.0	0.0	5,400.0	0.0	44.5	8,494.6	5,511.3	0.0	0.0
125.00		233.1	269.4					0.0	88.1	233.1	357.5	0.0	0.0
130.00	Appurtenance(s)	222.2	254.3	4,161.0	0.0	0.0	3,783.1	0.0	88.1	4,383.2	4,125.5	0.0	0.0
135.00		211.0	239.2					0.0	4.0	211.0	243.1	0.0	0.0
140.00	Appurtenance(s)	102.6	224.0	341.8	0.0	1,767.8	186.0	0.0	4.0	444.4	414.0	0.0	0.0
Totals:										26,420.9450	143.76	0.00	0.00

Load Case: 1.2D + 1.6W	93 mph with No Ice	22 Iterations
Gust Response Factor 1.10		Wind Importance Factor 1.00
Dead Load Factor :1.20		
Wind Load Factor :1.60		

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.11	-26.31	0.00	-2,712.07	0.00	2,712.07	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.451
5.00	-48.18	-26.07	0.00	-2,580.54	0.00	2,580.54	5,798.22	2,899.11	11,708.27	5,862.84	0.08	-0.15	0.449
10.00	-46.28	-25.84	0.00	-2,450.18	0.00	2,450.18	5,660.37	2,830.18	11,137.98	5,577.27	0.31	-0.30	0.448
15.00	-44.43	-25.61	0.00	-2,320.96	0.00	2,320.96	5,513.53	2,756.76	10,564.70	5,290.20	0.70	-0.45	0.447
20.00	-42.62	-25.39	0.00	-2,192.89	0.00	2,192.89	5,366.68	2,683.34	10,006.56	5,010.72	1.26	-0.60	0.446
25.00	-40.85	-25.16	0.00	-2,065.96	0.00	2,065.96	5,219.84	2,609.92	9,463.58	4,738.82	1.98	-0.76	0.444
30.00	-39.12	-24.94	0.00	-1,940.13	0.00	1,940.13	5,073.00	2,536.50	8,935.73	4,474.51	2.86	-0.93	0.441
35.00	-37.42	-24.71	0.00	-1,815.44	0.00	1,815.44	4,926.16	2,463.08	8,423.04	4,217.78	3.93	-1.10	0.438
40.00	-35.81	-24.57	0.00	-1,691.91	0.00	1,691.91	4,779.32	2,389.66	7,925.49	3,968.63	5.17	-1.27	0.434
40.13	-35.73	-24.46	0.00	-1,688.72	0.00	1,688.72	4,775.51	2,387.75	7,912.75	3,962.26	5.20	-1.27	0.434
45.00	-33.06	-24.26	0.00	-1,569.62	0.00	1,569.62	4,632.48	2,316.24	7,443.09	3,727.08	6.59	-1.44	0.428
45.88	-32.56	-24.14	0.00	-1,548.26	0.00	1,548.26	4,127.52	2,063.76	6,764.96	3,387.51	6.85	-1.47	0.465
50.00	-31.37	-23.91	0.00	-1,448.80	0.00	1,448.80	4,021.65	2,010.83	6,420.54	3,215.04	8.19	-1.62	0.459
55.00	-29.97	-23.64	0.00	-1,329.27	0.00	1,329.27	3,893.17	1,946.58	6,014.64	3,011.79	9.99	-1.81	0.449
60.00	-28.60	-23.38	0.00	-1,211.05	0.00	1,211.05	3,764.68	1,882.34	5,621.99	2,815.17	11.99	-2.00	0.438
65.00	-27.26	-23.10	0.00	-1,094.18	0.00	1,094.18	3,636.20	1,818.10	5,242.60	2,625.19	14.19	-2.19	0.424
70.00	-25.97	-22.83	0.00	-978.66	0.00	978.66	3,507.71	1,753.86	4,876.46	2,441.85	16.59	-2.39	0.408
75.00	-24.72	-22.56	0.00	-864.52	0.00	864.52	3,379.23	1,689.61	4,523.57	2,265.15	19.19	-2.58	0.389
79.67	-23.60	-22.39	0.00	-759.10	0.00	759.10	3,259.13	1,629.57	4,205.72	2,105.99	21.80	-2.75	0.368
80.00	-23.46	-22.31	0.00	-751.78	0.00	751.78	3,250.74	1,625.37	4,183.94	2,095.08	21.99	-2.76	0.366
83.00	-20.56	-20.87	0.00	-684.85	0.00	684.85	3,173.65	1,586.82	3,986.52	1,996.22	23.76	-2.88	0.350
84.34	-20.08	-20.80	0.00	-656.88	0.00	656.88	2,286.71	1,143.35	2,923.37	1,463.86	24.57	-2.93	0.458
85.00	-19.92	-20.67	0.00	-643.15	0.00	643.15	2,277.67	1,138.84	2,896.31	1,450.31	24.98	-2.95	0.453
90.00	-16.08	-17.74	0.00	-539.79	0.00	539.79	2,193.67	1,096.84	2,676.37	1,340.17	28.19	-3.17	0.410
95.00	-15.22	-17.46	0.00	-451.08	0.00	451.08	2,101.90	1,050.95	2,456.00	1,229.83	31.63	-3.39	0.374
100.00	-12.49	-15.47	0.00	-363.77	0.00	363.77	2,010.12	1,005.06	2,245.10	1,124.22	35.29	-3.59	0.330
105.00	-11.73	-15.20	0.00	-286.39	0.00	286.39	1,918.35	959.17	2,043.66	1,023.35	39.14	-3.77	0.286
110.00	-11.01	-14.92	0.00	-210.42	0.00	210.42	1,826.57	913.29	1,851.70	927.22	43.18	-3.93	0.233
115.00	-10.33	-14.75	0.00	-135.83	0.00	135.83	1,734.80	867.40	1,669.20	835.84	47.36	-4.06	0.169
115.22	-10.30	-14.66	0.00	-132.59	0.00	132.59	1,730.76	865.38	1,661.38	831.93	47.55	-4.06	0.166
118.80	-9.63	-14.50	0.00	-80.06	0.00	80.06	956.25	478.12	907.22	454.29	50.63	-4.13	0.187
120.00	-4.74	-5.63	0.00	-62.71	0.00	62.71	947.93	473.97	887.63	444.47	51.66	-4.15	0.146
125.00	-4.40	-5.38	0.00	-34.54	0.00	34.54	912.05	456.02	806.99	404.09	56.05	-4.22	0.090
130.00	-0.61	-0.70	0.00	-7.65	0.00	7.65	874.32	437.16	728.52	364.80	60.49	-4.26	0.022
135.00	-0.38	-0.47	0.00	-4.14	0.00	4.14	834.76	417.38	652.50	326.73	64.96	-4.28	0.013
140.00	0.00	-0.44	0.00	-1.77	0.00	1.77	787.66	393.83	575.06	287.96	69.44	-4.29	0.006

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:20 PM

Customer: SPRINT NEXTEL

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

22 Iterations

Gust Response Factor 1.10

Wind Importance Factor 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		179.5	0.0					0.0	0.0	179.5	0.0	0.0	0.0
5.00		354.6	1,212.0					0.0	187.8	354.6	1,399.8	0.0	0.0
10.00		345.7	1,181.8					0.0	187.8	345.7	1,369.5	0.0	0.0
15.00		336.8	1,151.5					0.0	187.8	336.8	1,339.3	0.0	0.0
20.00		328.0	1,121.2					0.0	187.8	328.0	1,309.0	0.0	0.0
25.00		319.1	1,091.0					0.0	187.8	319.1	1,278.7	0.0	0.0
30.00		313.9	1,060.7					0.0	187.8	313.9	1,248.5	0.0	0.0
35.00		314.9	1,030.4					0.0	187.8	314.9	1,218.2	0.0	0.0
40.00		162.5	1,000.2					0.0	187.8	162.5	1,188.0	0.0	0.0
40.13	Bot - Section 2	162.6	25.6					0.0	4.9	162.6	30.5	0.0	0.0
45.00		187.1	1,790.0					0.0	182.9	187.1	1,972.9	0.0	0.0
45.88	Top - Section 1	162.8	317.7					0.0	33.1	162.8	350.8	0.0	0.0
50.00		296.5	692.0					0.0	154.7	296.5	846.7	0.0	0.0
55.00		323.6	815.6					0.0	187.8	323.6	1,003.4	0.0	0.0
60.00		321.0	789.2					0.0	187.8	321.0	976.9	0.0	0.0
65.00		317.3	762.7					0.0	187.8	317.3	950.5	0.0	0.0
70.00		312.8	736.2					0.0	187.8	312.8	924.0	0.0	0.0
75.00		297.7	709.7					0.0	187.8	297.7	897.5	0.0	0.0
79.67	Bot - Section 3	152.5	639.4					0.0	175.5	152.5	814.9	0.0	0.0
80.00		101.7	75.9					0.0	12.3	101.7	88.2	0.0	0.0
83.00	Appurtenance(s)	132.2	687.8	1,192.1	0.0	0.0	1,409.4	0.0	112.7	1,324.3	2,209.9	0.0	0.0
84.34	Top - Section 2	60.5	301.9					0.0	50.3	60.5	352.3	0.0	0.0
85.00		168.6	62.3					0.0	24.8	168.6	87.1	0.0	0.0
90.00	Appurtenance(s)	293.6	461.6	2,493.2	0.0	0.0	2,298.0	0.0	187.8	2,786.8	2,947.3	0.0	0.0
95.00		285.8	442.7					0.0	169.1	285.8	611.8	0.0	0.0
100.00	Appurtenance(s)	277.5	423.8	1,585.7	0.0	0.0	1,507.9	0.0	169.1	1,863.2	2,100.7	0.0	0.0
105.00		268.7	404.8					0.0	139.6	268.7	544.4	0.0	0.0
110.00		259.5	385.9					0.0	139.6	259.5	525.5	0.0	0.0
115.00		132.8	367.0					0.0	139.6	132.8	506.6	0.0	0.0
115.22	Bot - Section 4	95.0	15.7					0.0	6.1	95.0	21.9	0.0	0.0
118.80	Top - Section 3	118.8	404.5					0.0	100.0	118.8	504.6	0.0	0.0
120.00	Appurtenance(s)	148.5	50.0	8,346.1	0.0	0.0	4,050.0	0.0	33.4	8,494.6	4,133.5	0.0	0.0
125.00		233.1	202.1					0.0	66.1	233.1	268.1	0.0	0.0
130.00	Appurtenance(s)	222.2	190.7	4,161.0	0.0	0.0	2,837.3	0.0	66.1	4,383.2	3,094.1	0.0	0.0
135.00		211.0	179.4					0.0	3.0	211.0	182.3	0.0	0.0
140.00	Appurtenance(s)	102.6	168.0	341.8	0.0	1,767.8	139.5	0.0	3.0	444.4	310.5	0.0	0.0
Totals:										26,420.9	437,607.82	0.00	0.00

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:24 PM

Customer: SPRINT NEXTEL

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

22 Iterations

Gust Response Factor 1.10

Wind Importance Factor 1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-37.57	-26.29	0.00	-2,685.82	0.00	2,685.82	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.445
5.00	-36.11	-26.03	0.00	-2,554.38	0.00	2,554.38	5,798.22	2,899.11	11,708.27	5,862.84	0.08	-0.14	0.442
10.00	-34.67	-25.76	0.00	-2,424.25	0.00	2,424.25	5,660.37	2,830.18	11,137.98	5,577.27	0.31	-0.29	0.441
15.00	-33.27	-25.51	0.00	-2,295.43	0.00	2,295.43	5,513.53	2,756.76	10,564.70	5,290.20	0.70	-0.44	0.440
20.00	-31.89	-25.26	0.00	-2,167.89	0.00	2,167.89	5,366.68	2,683.34	10,006.56	5,010.72	1.24	-0.60	0.439
25.00	-30.55	-25.01	0.00	-2,041.61	0.00	2,041.61	5,219.84	2,609.92	9,463.58	4,738.82	1.95	-0.76	0.437
30.00	-29.23	-24.76	0.00	-1,916.58	0.00	1,916.58	5,073.00	2,536.50	8,935.73	4,474.51	2.83	-0.92	0.434
35.00	-27.95	-24.50	0.00	-1,792.79	0.00	1,792.79	4,926.16	2,463.08	8,423.04	4,217.78	3.88	-1.08	0.431
40.00	-26.73	-24.36	0.00	-1,670.27	0.00	1,670.27	4,779.32	2,389.66	7,925.49	3,968.63	5.11	-1.25	0.427
40.13	-26.67	-24.23	0.00	-1,667.11	0.00	1,667.11	4,775.51	2,387.75	7,912.75	3,962.26	5.14	-1.26	0.426
45.00	-24.66	-24.04	0.00	-1,549.09	0.00	1,549.09	4,632.48	2,316.24	7,443.09	3,727.08	6.51	-1.42	0.421
45.88	-24.27	-23.91	0.00	-1,527.93	0.00	1,527.93	4,127.52	2,063.76	6,764.96	3,387.51	6.78	-1.46	0.457
50.00	-23.37	-23.66	0.00	-1,429.42	0.00	1,429.42	4,021.65	2,010.83	6,420.54	3,215.04	8.10	-1.60	0.451
55.00	-22.30	-23.38	0.00	-1,311.13	0.00	1,311.13	3,893.17	1,946.58	6,014.64	3,011.79	9.88	-1.79	0.441
60.00	-21.25	-23.10	0.00	-1,194.24	0.00	1,194.24	3,764.68	1,882.34	5,621.99	2,815.17	11.85	-1.98	0.430
65.00	-20.24	-22.81	0.00	-1,078.75	0.00	1,078.75	3,636.20	1,818.10	5,242.60	2,625.19	14.02	-2.17	0.417
70.00	-19.25	-22.53	0.00	-964.70	0.00	964.70	3,507.71	1,753.86	4,876.46	2,441.85	16.40	-2.36	0.401
75.00	-18.30	-22.25	0.00	-852.06	0.00	852.06	3,379.23	1,689.61	4,523.57	2,265.15	18.96	-2.54	0.382
79.67	-17.46	-22.09	0.00	-748.09	0.00	748.09	3,259.13	1,629.57	4,205.72	2,105.99	21.54	-2.72	0.361
80.00	-17.35	-22.00	0.00	-740.88	0.00	740.88	3,250.74	1,625.37	4,183.94	2,095.08	21.73	-2.73	0.359
83.00	-15.18	-20.59	0.00	-674.88	0.00	674.88	3,173.65	1,586.82	3,986.52	1,996.22	23.48	-2.84	0.343
84.34	-14.82	-20.52	0.00	-647.29	0.00	647.29	2,286.71	1,143.35	2,923.37	1,463.86	24.28	-2.89	0.449
85.00	-14.69	-20.38	0.00	-633.75	0.00	633.75	2,277.67	1,138.84	2,896.31	1,450.31	24.68	-2.91	0.444
90.00	-11.83	-17.49	0.00	-531.84	0.00	531.84	2,193.67	1,096.84	2,676.37	1,340.17	27.85	-3.13	0.402
95.00	-11.18	-17.21	0.00	-444.41	0.00	444.41	2,101.90	1,050.95	2,456.00	1,229.83	31.25	-3.34	0.367
100.00	-9.14	-15.25	0.00	-358.37	0.00	358.37	2,010.12	1,005.06	2,245.10	1,124.22	34.85	-3.54	0.324
105.00	-8.57	-14.97	0.00	-282.12	0.00	282.12	1,918.35	959.17	2,043.66	1,023.35	38.66	-3.72	0.280
110.00	-8.03	-14.70	0.00	-207.25	0.00	207.25	1,826.57	913.29	1,851.70	927.22	42.64	-3.88	0.228
115.00	-7.52	-14.54	0.00	-133.75	0.00	133.75	1,734.80	867.40	1,669.20	835.84	46.77	-4.00	0.165
115.22	-7.49	-14.45	0.00	-130.55	0.00	130.55	1,730.76	865.38	1,661.38	831.93	46.95	-4.01	0.162
118.80	-6.99	-14.30	0.00	-78.77	0.00	78.77	956.25	478.12	907.22	454.29	49.99	-4.07	0.182
120.00	-3.46	-5.54	0.00	-61.66	0.00	61.66	947.93	473.97	887.63	444.47	51.01	-4.09	0.143
125.00	-3.21	-5.29	0.00	-33.98	0.00	33.98	912.05	456.02	806.99	404.09	55.34	-4.17	0.088
130.00	-0.44	-0.69	0.00	-7.55	0.00	7.55	874.32	437.16	728.52	364.80	59.73	-4.21	0.021
135.00	-0.28	-0.47	0.00	-4.10	0.00	4.10	834.76	417.38	652.50	326.73	64.13	-4.22	0.013
140.00	0.00	-0.44	0.00	-1.77	0.00	1.77	787.66	393.83	575.06	287.96	68.55	-4.23	0.006

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:24 PM

Customer: SPRINT NEXTEL

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

22 Iterations

Gust Response Factor 1.10

Ice Dead Load Factor :1.00

Wind Importance Factor 1.00

Dead Load Factor :1.20

Ice Importance Factor 1.00

Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		63.5	0.0					0.0	0.0	63.5	0.0	0.0	0.0
5.00		125.9	2,112.5					0.0	373.2	125.9	2,485.8	0.0	0.0
10.00		123.6	2,118.3					0.0	387.9	123.6	2,506.2	0.0	0.0
15.00		121.0	2,093.2					0.0	395.4	121.0	2,488.6	0.0	0.0
20.00		118.3	2,058.0					0.0	400.6	118.3	2,458.6	0.0	0.0
25.00		115.5	2,017.5					0.0	404.7	115.5	2,422.2	0.0	0.0
30.00		114.1	1,973.8					0.0	408.0	114.1	2,381.8	0.0	0.0
35.00		114.9	1,927.6					0.0	410.8	114.9	2,338.5	0.0	0.0
40.00		59.4	1,879.8					0.0	413.3	59.4	2,293.1	0.0	0.0
40.13	Bot - Section 2	59.5	48.4					0.0	10.8	59.5	59.2	0.0	0.0
45.00		68.5	2,921.2					0.0	404.7	68.5	3,325.9	0.0	0.0
45.88	Top - Section 1	59.8	520.4					0.0	73.3	59.8	593.7	0.0	0.0
50.00		109.2	1,367.2					0.0	344.2	109.2	1,711.3	0.0	0.0
55.00		119.7	1,615.8					0.0	419.3	119.7	2,035.1	0.0	0.0
60.00		119.2	1,569.1					0.0	421.0	119.2	1,990.1	0.0	0.0
65.00		118.3	1,521.7					0.0	422.6	118.3	1,944.2	0.0	0.0
70.00		117.2	1,473.7					0.0	424.0	117.2	1,897.7	0.0	0.0
75.00		112.0	1,425.3					0.0	425.4	112.0	1,850.6	0.0	0.0
79.67	Bot - Section 3	57.6	1,288.5					0.0	398.7	57.6	1,687.2	0.0	0.0
80.00		38.5	132.2					0.0	27.9	38.5	160.1	0.0	0.0
83.00	Appurtenance(s)	50.0	1,196.8	382.2	0.0	0.0	2,954.3	0.0	256.6	432.2	4,407.7	0.0	0.0
84.34	Top - Section 2	22.9	526.6					0.0	114.7	22.9	641.4	0.0	0.0
85.00		64.1	144.0					0.0	56.5	64.1	200.5	0.0	0.0
90.00	Appurtenance(s)	112.1	1,061.1	712.0	0.0	0.0	6,128.8	0.0	429.0	824.1	7,618.8	0.0	0.0
95.00		109.8	1,021.2					0.0	405.2	109.8	1,426.4	0.0	0.0
100.00	Appurtenance(s)	107.3	981.0	475.6	0.0	0.0	3,686.8	0.0	406.2	582.9	5,074.0	0.0	0.0
105.00		104.7	940.6					0.0	186.1	104.7	1,126.7	0.0	0.0
110.00		101.9	899.8					0.0	186.1	101.9	1,086.0	0.0	0.0
115.00		52.4	858.9					0.0	186.1	52.4	1,045.0	0.0	0.0
115.22	Bot - Section 4	37.6	37.2					0.0	8.2	37.6	45.4	0.0	0.0
118.80	Top - Section 3	47.1	799.5					0.0	133.4	47.1	932.9	0.0	0.0
120.00	Appurtenance(s)	59.4	152.8	2,525.9	0.0	0.0	11,302.9	0.0	44.5	2,585.3	11,500.2	0.0	0.0
125.00		93.8	612.2					0.0	88.1	93.8	700.2	0.0	0.0
130.00	Appurtenance(s)	90.4	580.7	1,116.4	0.0	0.0	9,247.6	0.0	88.1	1,206.8	9,916.4	0.0	0.0
135.00		86.9	549.0					0.0	4.0	86.9	552.9	0.0	0.0
140.00	Appurtenance(s)	42.6	517.1	140.4	0.0	827.8	552.0	0.0	4.0	183.0	1,073.1	0.0	0.0
Totals:										8,471.4883,977.75	0.00	0.00	

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:29 PM

Customer: SPRINT NEXTEL

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

22 Iterations

Gust Response Factor 1.10

Ice Dead Load Factor :1.00

Wind Importance Factor 1.00

Dead Load Factor :1.20

Ice Importance Factor 1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-83.97	-8.44	0.00	-883.67	0.00	883.67	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.158
5.00	-81.48	-8.38	0.00	-841.46	0.00	841.46	5,798.22	2,899.11	11,708.27	5,862.84	0.03	-0.05	0.158
10.00	-78.97	-8.33	0.00	-799.54	0.00	799.54	5,660.37	2,830.18	11,137.98	5,577.27	0.10	-0.10	0.157
15.00	-76.47	-8.27	0.00	-757.91	0.00	757.91	5,513.53	2,756.76	10,564.70	5,290.20	0.23	-0.15	0.157
20.00	-74.01	-8.21	0.00	-716.57	0.00	716.57	5,366.68	2,683.34	10,006.56	5,010.72	0.41	-0.20	0.157
25.00	-71.58	-8.15	0.00	-675.53	0.00	675.53	5,219.84	2,609.92	9,463.58	4,738.82	0.64	-0.25	0.156
30.00	-69.19	-8.09	0.00	-634.78	0.00	634.78	5,073.00	2,536.50	8,935.73	4,474.51	0.93	-0.30	0.156
35.00	-66.84	-8.03	0.00	-594.33	0.00	594.33	4,926.16	2,463.08	8,423.04	4,217.78	1.28	-0.36	0.154
40.00	-64.55	-7.98	0.00	-554.21	0.00	554.21	4,779.32	2,389.66	7,925.49	3,968.63	1.69	-0.41	0.153
40.13	-64.48	-7.96	0.00	-553.17	0.00	553.17	4,775.51	2,387.75	7,912.75	3,962.26	1.70	-0.42	0.153
45.00	-61.15	-7.90	0.00	-514.43	0.00	514.43	4,632.48	2,316.24	7,443.09	3,727.08	2.15	-0.47	0.151
45.88	-60.56	-7.86	0.00	-507.48	0.00	507.48	4,127.52	2,063.76	6,764.96	3,387.51	2.24	-0.48	0.164
50.00	-58.84	-7.80	0.00	-475.09	0.00	475.09	4,021.65	2,010.83	6,420.54	3,215.04	2.68	-0.53	0.162
55.00	-56.80	-7.72	0.00	-436.11	0.00	436.11	3,893.17	1,946.58	6,014.64	3,011.79	3.26	-0.59	0.159
60.00	-54.80	-7.64	0.00	-397.52	0.00	397.52	3,764.68	1,882.34	5,621.99	2,815.17	3.92	-0.65	0.156
65.00	-52.85	-7.55	0.00	-359.34	0.00	359.34	3,636.20	1,818.10	5,242.60	2,625.19	4.64	-0.72	0.151
70.00	-50.94	-7.47	0.00	-321.57	0.00	321.57	3,507.71	1,753.86	4,876.46	2,441.85	5.42	-0.78	0.146
75.00	-49.09	-7.38	0.00	-284.23	0.00	284.23	3,379.23	1,689.61	4,523.57	2,265.15	6.28	-0.84	0.140
79.67	-47.40	-7.32	0.00	-249.74	0.00	249.74	3,259.13	1,629.57	4,205.72	2,105.99	7.13	-0.90	0.133
80.00	-47.24	-7.30	0.00	-247.35	0.00	247.35	3,250.74	1,625.37	4,183.94	2,095.08	7.19	-0.91	0.133
83.00	-42.83	-6.82	0.00	-225.46	0.00	225.46	3,173.65	1,586.82	3,986.52	1,996.22	7.77	-0.94	0.126
84.34	-42.19	-6.79	0.00	-216.32	0.00	216.32	2,286.71	1,143.35	2,923.37	1,463.86	8.04	-0.96	0.166
85.00	-41.99	-6.75	0.00	-211.84	0.00	211.84	2,277.67	1,138.84	2,896.31	1,450.31	8.17	-0.97	0.165
90.00	-34.38	-5.84	0.00	-178.07	0.00	178.07	2,193.67	1,096.84	2,676.37	1,340.17	9.23	-1.04	0.149
95.00	-32.94	-5.74	0.00	-148.88	0.00	148.88	2,101.90	1,050.95	2,456.00	1,229.83	10.35	-1.11	0.137
100.00	-27.88	-5.09	0.00	-120.16	0.00	120.16	2,010.12	1,005.06	2,245.10	1,124.22	11.55	-1.18	0.121
105.00	-26.75	-4.99	0.00	-94.72	0.00	94.72	1,918.35	959.17	2,043.66	1,023.35	12.82	-1.24	0.107
110.00	-25.66	-4.88	0.00	-69.79	0.00	69.79	1,826.57	913.29	1,851.70	927.22	14.15	-1.29	0.089
115.00	-24.62	-4.82	0.00	-45.38	0.00	45.38	1,734.80	867.40	1,669.20	835.84	15.52	-1.33	0.069
115.22	-24.57	-4.78	0.00	-44.32	0.00	44.32	1,730.76	865.38	1,661.38	831.93	15.58	-1.33	0.067
118.80	-23.64	-4.72	0.00	-27.18	0.00	27.18	956.25	478.12	907.22	454.29	16.59	-1.36	0.085
120.00	-12.20	-1.86	0.00	-21.54	0.00	21.54	947.93	473.97	887.63	444.47	16.93	-1.36	0.061
125.00	-11.50	-1.76	0.00	-12.21	0.00	12.21	912.05	456.02	806.99	404.09	18.38	-1.39	0.043
130.00	-1.62	-0.31	0.00	-3.42	0.00	3.42	874.32	437.16	728.52	364.80	19.84	-1.40	0.011
135.00	-1.07	-0.21	0.00	-1.87	0.00	1.87	834.76	417.38	652.50	326.73	21.32	-1.41	0.007
140.00	0.00	-0.18	0.00	-0.83	0.00	0.83	787.66	393.83	575.06	287.96	22.80	-1.41	0.003

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:29 PM

Customer: SPRINT NEXTEL

Load Case: 1.0D + 1.0W

Serviceability 60 mph

21 Iterations

Gust Response Factor 1.10

Wind Importance Factor 1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		46.7	0.0					0.0	0.0	46.7	0.0	0.0	0.0
5.00		92.2	1,346.7					0.0	208.7	92.2	1,555.3	0.0	0.0
10.00		89.9	1,313.1					0.0	208.7	89.9	1,521.7	0.0	0.0
15.00		87.6	1,279.4					0.0	208.7	87.6	1,488.1	0.0	0.0
20.00		85.3	1,245.8					0.0	208.7	85.3	1,454.5	0.0	0.0
25.00		83.0	1,212.2					0.0	208.7	83.0	1,420.8	0.0	0.0
30.00		81.7	1,178.6					0.0	208.7	81.7	1,387.2	0.0	0.0
35.00		81.9	1,144.9					0.0	208.7	81.9	1,353.6	0.0	0.0
40.00		42.3	1,111.3					0.0	208.7	42.3	1,319.9	0.0	0.0
40.13	Bot - Section 2	42.3	28.4					0.0	5.4	42.3	33.9	0.0	0.0
45.00		48.7	1,988.9					0.0	203.2	48.7	2,192.1	0.0	0.0
45.88	Top - Section 1	42.4	353.0					0.0	36.7	42.4	389.7	0.0	0.0
50.00		77.1	768.9					0.0	171.9	77.1	940.8	0.0	0.0
55.00		84.2	906.3					0.0	208.7	84.2	1,114.9	0.0	0.0
60.00		83.5	876.8					0.0	208.7	83.5	1,085.5	0.0	0.0
65.00		82.6	847.4					0.0	208.7	82.6	1,056.1	0.0	0.0
70.00		81.4	818.0					0.0	208.7	81.4	1,026.6	0.0	0.0
75.00		77.4	788.6					0.0	208.7	77.4	997.2	0.0	0.0
79.67	Bot - Section 3	39.7	710.4					0.0	195.0	39.7	905.5	0.0	0.0
80.00		26.5	84.3					0.0	13.6	26.5	97.9	0.0	0.0
83.00	Appurtenance(s)	34.4	764.2	310.1	0.0	0.0	1,566.0	0.0	125.2	344.5	2,455.4	0.0	0.0
84.34	Top - Section 2	15.7	335.5					0.0	55.9	15.7	391.4	0.0	0.0
85.00		43.9	69.3					0.0	27.5	43.9	96.8	0.0	0.0
90.00	Appurtenance(s)	76.4	512.9	648.6	0.0	0.0	2,553.3	0.0	208.7	725.0	3,274.8	0.0	0.0
95.00		74.4	491.9					0.0	187.9	74.4	679.8	0.0	0.0
100.00	Appurtenance(s)	72.2	470.8	412.5	0.0	0.0	1,675.4	0.0	187.9	484.7	2,334.1	0.0	0.0
105.00		69.9	449.8					0.0	155.1	69.9	604.9	0.0	0.0
110.00		67.5	428.8					0.0	155.1	67.5	583.9	0.0	0.0
115.00		34.6	407.8					0.0	155.1	34.6	562.9	0.0	0.0
115.22	Bot - Section 4	24.7	17.5					0.0	6.8	24.7	24.3	0.0	0.0
118.80	Top - Section 3	30.9	449.5					0.0	111.2	30.9	560.6	0.0	0.0
120.00	Appurtenance(s)	38.6	55.6	2,171.2	0.0	0.0	4,500.0	0.0	37.1	2,209.8	4,592.7	0.0	0.0
125.00		60.6	224.5					0.0	73.4	60.6	297.9	0.0	0.0
130.00	Appurtenance(s)	57.8	211.9	1,082.5	0.0	0.0	3,152.6	0.0	73.4	1,140.3	3,437.9	0.0	0.0
135.00		54.9	199.3					0.0	3.3	54.9	202.6	0.0	0.0
140.00	Appurtenance(s)	26.7	186.7	88.9	0.0	459.9	155.0	0.0	3.3	115.6	345.0	0.0	0.0
Totals:										6,873.2941	7,86.47	0.00	0.00

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:33 PM

Customer: SPRINT NEXTEL

Load Case: 1.0D + 1.0W

Serviceability 60 mph

21 Iterations

Gust Response Factor 1.10

Wind Importance Factor 1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-41.78	-6.84	0.00	-701.43	0.00	701.43	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.122
5.00	-40.22	-6.77	0.00	-667.23	0.00	667.23	5,798.22	2,899.11	11,708.27	5,862.84	0.02	-0.04	0.121
10.00	-38.70	-6.71	0.00	-633.36	0.00	633.36	5,660.37	2,830.18	11,137.98	5,577.27	0.08	-0.08	0.120
15.00	-37.21	-6.64	0.00	-599.81	0.00	599.81	5,513.53	2,756.76	10,564.70	5,290.20	0.18	-0.12	0.120
20.00	-35.75	-6.58	0.00	-566.59	0.00	566.59	5,366.68	2,683.34	10,006.56	5,010.72	0.32	-0.16	0.120
25.00	-34.32	-6.52	0.00	-533.68	0.00	533.68	5,219.84	2,609.92	9,463.58	4,738.82	0.51	-0.20	0.119
30.00	-32.93	-6.46	0.00	-501.09	0.00	501.09	5,073.00	2,536.50	8,935.73	4,474.51	0.74	-0.24	0.118
35.00	-31.57	-6.39	0.00	-468.80	0.00	468.80	4,926.16	2,463.08	8,423.04	4,217.78	1.02	-0.28	0.118
40.00	-30.25	-6.36	0.00	-436.84	0.00	436.84	4,779.32	2,389.66	7,925.49	3,968.63	1.34	-0.33	0.116
40.13	-30.21	-6.32	0.00	-436.01	0.00	436.01	4,775.51	2,387.75	7,912.75	3,962.26	1.34	-0.33	0.116
45.00	-28.02	-6.28	0.00	-405.21	0.00	405.21	4,632.48	2,316.24	7,443.09	3,727.08	1.70	-0.37	0.115
45.88	-27.63	-6.24	0.00	-399.69	0.00	399.69	4,127.52	2,063.76	6,764.96	3,387.51	1.77	-0.38	0.125
50.00	-26.68	-6.18	0.00	-373.97	0.00	373.97	4,021.65	2,010.83	6,420.54	3,215.04	2.12	-0.42	0.123
55.00	-25.56	-6.11	0.00	-343.08	0.00	343.08	3,893.17	1,946.58	6,014.64	3,011.79	2.58	-0.47	0.120
60.00	-24.47	-6.04	0.00	-312.54	0.00	312.54	3,764.68	1,882.34	5,621.99	2,815.17	3.10	-0.52	0.118
65.00	-23.41	-5.96	0.00	-282.36	0.00	282.36	3,636.20	1,818.10	5,242.60	2,625.19	3.67	-0.57	0.114
70.00	-22.38	-5.89	0.00	-252.55	0.00	252.55	3,507.71	1,753.86	4,876.46	2,441.85	4.29	-0.62	0.110
75.00	-21.38	-5.82	0.00	-223.09	0.00	223.09	3,379.23	1,689.61	4,523.57	2,265.15	4.96	-0.67	0.105
79.67	-20.47	-5.78	0.00	-195.89	0.00	195.89	3,259.13	1,629.57	4,205.72	2,105.99	5.63	-0.71	0.099
80.00	-20.37	-5.76	0.00	-194.01	0.00	194.01	3,250.74	1,625.37	4,183.94	2,095.08	5.68	-0.71	0.099
83.00	-17.92	-5.39	0.00	-176.74	0.00	176.74	3,173.65	1,586.82	3,986.52	1,996.22	6.14	-0.74	0.094
84.34	-17.53	-5.37	0.00	-169.52	0.00	169.52	2,286.71	1,143.35	2,923.37	1,463.86	6.35	-0.76	0.123
85.00	-17.43	-5.33	0.00	-165.98	0.00	165.98	2,277.67	1,138.84	2,896.31	1,450.31	6.45	-0.76	0.122
90.00	-14.16	-4.58	0.00	-139.31	0.00	139.31	2,193.67	1,096.84	2,676.37	1,340.17	7.28	-0.82	0.110
95.00	-13.48	-4.51	0.00	-116.42	0.00	116.42	2,101.90	1,050.95	2,456.00	1,229.83	8.17	-0.87	0.101
100.00	-11.15	-3.99	0.00	-93.89	0.00	93.89	2,010.12	1,005.06	2,245.10	1,124.22	9.12	-0.93	0.089
105.00	-10.54	-3.92	0.00	-73.92	0.00	73.92	1,918.35	959.17	2,043.66	1,023.35	10.11	-0.97	0.078
110.00	-9.96	-3.85	0.00	-54.31	0.00	54.31	1,826.57	913.29	1,851.70	927.22	11.16	-1.01	0.064
115.00	-9.39	-3.81	0.00	-35.05	0.00	35.05	1,734.80	867.40	1,669.20	835.84	12.24	-1.05	0.047
115.22	-9.37	-3.79	0.00	-34.22	0.00	34.22	1,730.76	865.38	1,661.38	831.93	12.28	-1.05	0.047
118.80	-8.81	-3.75	0.00	-20.65	0.00	20.65	956.25	478.12	907.22	454.29	13.08	-1.07	0.055
120.00	-4.26	-1.45	0.00	-16.17	0.00	16.17	947.93	473.97	887.63	444.47	13.35	-1.07	0.041
125.00	-3.96	-1.39	0.00	-8.91	0.00	8.91	912.05	456.02	806.99	404.09	14.48	-1.09	0.026
130.00	-0.54	-0.18	0.00	-1.98	0.00	1.98	874.32	437.16	728.52	364.80	15.63	-1.10	0.006
135.00	-0.34	-0.12	0.00	-1.07	0.00	1.07	834.76	417.38	652.50	326.73	16.78	-1.10	0.004
140.00	0.00	-0.12	0.00	-0.46	0.00	0.46	787.66	393.83	575.06	287.96	17.94	-1.11	0.002

Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period (S_s):	0.18
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.19
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.00
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.75
Total Unfactored Dead Load:	41.79 k
Seismic Base Shear (E):	1.86 k

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
35	137.50	190	1,036	0.012	22	235
34	132.50	203	1,036	0.012	22	251
33	127.50	285	1,364	0.015	29	353
32	122.50	298	1,328	0.015	28	369
31	119.40	93	395	0.004	8	115
30	117.01	561	2,306	0.026	49	694
29	115.11	24	97	0.001	2	30
28	112.50	563	2,162	0.025	46	697
27	107.50	584	2,071	0.023	44	723
26	102.50	605	1,975	0.022	42	749
25	97.50	659	1,970	0.022	42	816
24	92.50	680	1,854	0.021	39	842
23	87.50	722	1,786	0.020	38	894
22	84.67	97	226	0.003	5	120
21	83.67	391	896	0.010	19	485
20	81.50	889	1,945	0.022	41	1,101
19	79.84	98	207	0.002	4	121
18	77.34	905	1,807	0.020	38	1,121
17	72.50	997	1,777	0.020	37	1,235
16	67.50	1,027	1,615	0.018	34	1,271
15	62.50	1,056	1,452	0.016	31	1,308
14	57.50	1,085	1,290	0.015	27	1,344
13	52.50	1,115	1,130	0.013	24	1,381

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

12	47.94	941	814	0.009	17	1,165
11	45.44	390	307	0.003	6	483
10	42.56	2,192	1,541	0.017	32	2,715
9	40.06	34	21	0.000	0	42
8	37.50	1,320	743	0.008	16	1,635
7	32.50	1,354	594	0.007	13	1,676
6	27.50	1,387	454	0.005	10	1,718
5	22.50	1,421	328	0.004	7	1,760
4	17.50	1,454	216	0.002	5	1,801
3	12.50	1,488	123	0.001	3	1,843
2	7.50	1,522	51	0.001	1	1,884
1	2.50	1,555	8	0.000	0	1,926
Stand-Off	140.00	100	563	0.006	12	124
18' Omni	140.00	55	310	0.004	7	68
CCI DTMAPB7819VG12A	130.00	115	570	0.006	12	143
Raycap DC6-48-60-0-8	130.00	66	324	0.004	7	81
Ericsson RRUS-11 (50	130.00	300	1,483	0.017	31	372
Ericsson RRUS 32 (50	130.00	152	754	0.009	16	189
KMW AM-X-CD-14-65-00	130.00	36	180	0.002	4	45
Kathrein Scala 800-1	130.00	132	654	0.007	14	164
CSS DUO1417-8686	130.00	61	301	0.003	6	75
Andrew SBNHH-1D65A (	130.00	34	166	0.002	3	41
KMW AM-X-CD-17-65-00	130.00	60	294	0.003	6	74
Andrew SBNH-1D6565C	130.00	61	301	0.003	6	75
CCI HPA-65R-BUU-H8	130.00	136	673	0.008	14	168
Flat Platform w/ Han	130.00	2,000	9,890	0.112	209	2,477
Samsung PCS/AWS Dual	120.00	253	1,089	0.012	23	314
Samsung 700/850MHz D	120.00	211	907	0.010	19	261
RFS DB-T1-6Z-8AB-0Z	120.00	88	378	0.004	8	109
Antel LPA-80080/4CF	120.00	48	206	0.002	4	59
Antel LPA-80063/4CF	120.00	40	172	0.002	4	50
Amphenol Antel BXA-7	120.00	51	219	0.002	5	63
Commscope SBNHH-1D65	120.00	304	1,308	0.015	28	377
Flat Platform w/ Han	120.00	2,000	8,599	0.098	181	2,477
VZW Unused Reserve:	120.00	1,505	6,469	0.073	136	1,863
Kathrein Smart Bias	100.00	7	21	0.000	0	8
Ericsson KRY 112 489	100.00	31	96	0.001	2	38
RFS APXV18-209014-C	100.00	37	117	0.001	2	46
Commscope LNX-6515DS	100.00	101	315	0.004	7	125
Flat Low Profile Pla	100.00	1,500	4,690	0.053	99	1,858
PCTEL GPS-TMG-HR-26N	90.00	1	2	0.000	0	1
Alcatel-Lucent RRH2x	90.00	159	413	0.005	9	197
Alcatel-Lucent 800 M	90.00	159	413	0.005	9	197
Alcatel-Lucent 1900	90.00	180	468	0.005	10	223
Alcatel-Lucent TD-RR	90.00	210	546	0.006	12	260
RFS APXVSP18-C-A20	90.00	171	445	0.005	9	212
Commscope DT465B-2XR	90.00	174	453	0.005	10	215
Flat Low Profile Pla	90.00	1,500	3,901	0.044	82	1,858
Kathrein Scala 742 2	83.00	66	149	0.002	3	82
Flat Low Profile Pla	83.00	1,500	3,386	0.038	71	1,858
		41,786	88,150	1.000	1,859	51,748

Load Case (0.9 - 0.2Sds) * DL + E ELFM

Seismic (Reduced DL) Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
35	137.50	190	1,036	0.012	22	164
34	132.50	203	1,036	0.012	22	175
33	127.50	285	1,364	0.015	29	246
32	122.50	298	1,328	0.015	28	257

31	119.40	93	395	0.004	8	80
30	117.01	561	2,306	0.026	49	483
29	115.11	24	97	0.001	2	21
28	112.50	563	2,162	0.025	46	485
27	107.50	584	2,071	0.023	44	503
26	102.50	605	1,975	0.022	42	521
25	97.50	659	1,970	0.022	42	568
24	92.50	680	1,854	0.021	39	586
23	87.50	722	1,786	0.020	38	622
22	84.67	97	226	0.003	5	83
21	83.67	391	896	0.010	19	337
20	81.50	889	1,945	0.022	41	766
19	79.84	98	207	0.002	4	84
18	77.34	905	1,807	0.020	38	780
17	72.50	997	1,777	0.020	37	859
16	67.50	1,027	1,615	0.018	34	885
15	62.50	1,056	1,452	0.016	31	910
14	57.50	1,085	1,290	0.015	27	935
13	52.50	1,115	1,130	0.013	24	961
12	47.94	941	814	0.009	17	811
11	45.44	390	307	0.003	6	336
10	42.56	2,192	1,541	0.017	32	1,889
9	40.06	34	21	0.000	0	29
8	37.50	1,320	743	0.008	16	1,137
7	32.50	1,354	594	0.007	13	1,166
6	27.50	1,387	454	0.005	10	1,195
5	22.50	1,421	328	0.004	7	1,224
4	17.50	1,454	216	0.002	5	1,253
3	12.50	1,488	123	0.001	3	1,282
2	7.50	1,522	51	0.001	1	1,311
1	2.50	1,555	8	0.000	0	1,340
Stand-Off	140.00	100	563	0.006	12	86
18' Omni	140.00	55	310	0.004	7	47
CCI DTMABP7819VG12A	130.00	115	570	0.006	12	99
Raycap DC6-48-60-0-8	130.00	66	324	0.004	7	57
Ericsson RRUS-11 (50	130.00	300	1,483	0.017	31	258
Ericsson RRUS 32 (50	130.00	152	754	0.009	16	131
KMW AM-X-CD-14-65-00	130.00	36	180	0.002	4	31
Kathrein Scala 800-1	130.00	132	654	0.007	14	114
CSS DUO1417-8686	130.00	61	301	0.003	6	52
Andrew SBNHH-1D65A (	130.00	34	166	0.002	3	29
KMW AM-X-CD-17-65-00	130.00	60	294	0.003	6	51
Andrew SBNH-1D6565C	130.00	61	301	0.003	6	52
CCI HPA-65R-BUU-H8	130.00	136	673	0.008	14	117
Flat Platform w/ Han	130.00	2,000	9,890	0.112	209	1,723
Samsung PCS/AWS Dual	120.00	253	1,089	0.012	23	218
Samsung 700/850MHz D	120.00	211	907	0.010	19	182
RFS DB-T1-6Z-8AB-0Z	120.00	88	378	0.004	8	76
Antel LPA-80080/4CF	120.00	48	206	0.002	4	41
Antel LPA-80063/4CF	120.00	40	172	0.002	4	34
Amphenol Antel BXA-7	120.00	51	219	0.002	5	44
Commscope SBNHH-1D65	120.00	304	1,308	0.015	28	262
Flat Platform w/ Han	120.00	2,000	8,599	0.098	181	1,723
VZW Unused Reserve:	120.00	1,505	6,469	0.073	136	1,296
Kathrein Smart Bias	100.00	7	21	0.000	0	6
Ericsson KRY 112 489	100.00	31	96	0.001	2	27
RFS APXV18-209014-C	100.00	37	117	0.001	2	32
Commscope LNX-6515DS	100.00	101	315	0.004	7	87
Flat Low Profile Pla	100.00	1,500	4,690	0.053	99	1,292
PCTEL GPS-TMG-HR-26N	90.00	1	2	0.000	0	1
Alcatel-Lucent RRH2x	90.00	159	413	0.005	9	137
Alcatel-Lucent 800 M	90.00	159	413	0.005	9	137
Alcatel-Lucent 1900	90.00	180	468	0.005	10	155
Alcatel-Lucent TD-RR	90.00	210	546	0.006	12	181

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

RFS APXVSPP18-C-A20	90.00	171	445	0.005	9	147
Commscope DT465B-2XR	90.00	174	453	0.005	10	150
Flat Low Profile Pla	90.00	1,500	3,901	0.044	82	1,292
Kathrein Scala 742 2	83.00	66	149	0.002	3	57
Flat Low Profile Pla	83.00	1,500	3,386	0.038	71	1,292
		41,786	88,150	1.000	1,859	36,003

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-49.82	-1.86	0.00	-196.82	0.00	196.82	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.041
5.00	-47.94	-1.87	0.00	-187.51	0.00	187.51	5,798.22	2,899.11	11,708.27	5,862.84	0.01	-0.01	0.040
10.00	-46.09	-1.88	0.00	-178.15	0.00	178.15	5,660.37	2,830.18	11,137.98	5,577.27	0.02	-0.02	0.040
15.00	-44.29	-1.88	0.00	-168.77	0.00	168.77	5,513.53	2,756.76	10,564.70	5,290.20	0.05	-0.03	0.040
20.00	-42.53	-1.88	0.00	-159.38	0.00	159.38	5,366.68	2,683.34	10,006.56	5,010.72	0.09	-0.04	0.040
25.00	-40.81	-1.88	0.00	-149.98	0.00	149.98	5,219.84	2,609.92	9,463.58	4,738.82	0.14	-0.06	0.039
30.00	-39.14	-1.87	0.00	-140.59	0.00	140.59	5,073.00	2,536.50	8,935.73	4,474.51	0.21	-0.07	0.039
35.00	-37.50	-1.86	0.00	-131.24	0.00	131.24	4,926.16	2,463.08	8,423.04	4,217.78	0.29	-0.08	0.039
40.00	-37.46	-1.86	0.00	-121.93	0.00	121.93	4,779.32	2,389.66	7,925.49	3,968.63	0.38	-0.09	0.039
40.13	-34.75	-1.83	0.00	-121.69	0.00	121.69	4,775.51	2,387.75	7,912.75	3,962.26	0.38	-0.09	0.038
45.00	-34.26	-1.83	0.00	-112.77	0.00	112.77	4,632.48	2,316.24	7,443.09	3,727.08	0.48	-0.10	0.038
45.88	-33.10	-1.81	0.00	-111.16	0.00	111.16	4,127.52	2,063.76	6,764.96	3,387.51	0.50	-0.11	0.041
50.00	-31.72	-1.79	0.00	-103.69	0.00	103.69	4,021.65	2,010.83	6,420.54	3,215.04	0.59	-0.12	0.040
55.00	-30.37	-1.77	0.00	-94.72	0.00	94.72	3,893.17	1,946.58	6,014.64	3,011.79	0.72	-0.13	0.039
60.00	-29.06	-1.74	0.00	-85.86	0.00	85.86	3,764.68	1,882.34	5,621.99	2,815.17	0.87	-0.14	0.038
65.00	-27.79	-1.71	0.00	-77.15	0.00	77.15	3,636.20	1,818.10	5,242.60	2,625.19	1.03	-0.16	0.037
70.00	-26.56	-1.68	0.00	-68.58	0.00	68.58	3,507.71	1,753.86	4,876.46	2,441.85	1.20	-0.17	0.036
75.00	-25.44	-1.64	0.00	-60.19	0.00	60.19	3,379.23	1,689.61	4,523.57	2,265.15	1.39	-0.18	0.034
79.67	-25.31	-1.64	0.00	-52.52	0.00	52.52	3,259.13	1,629.57	4,205.72	2,105.99	1.57	-0.20	0.033
80.00	-24.21	-1.60	0.00	-51.98	0.00	51.98	3,250.74	1,625.37	4,183.94	2,095.08	1.59	-0.20	0.032
83.00	-21.79	-1.50	0.00	-47.19	0.00	47.19	3,173.65	1,586.82	3,986.52	1,996.22	1.71	-0.21	0.031
84.34	-21.67	-1.49	0.00	-45.18	0.00	45.18	2,286.71	1,143.35	2,923.37	1,463.86	1.77	-0.21	0.040
85.00	-20.77	-1.46	0.00	-44.20	0.00	44.20	2,277.67	1,138.84	2,896.31	1,450.31	1.80	-0.21	0.040
90.00	-16.77	-1.27	0.00	-36.92	0.00	36.92	2,193.67	1,096.84	2,676.37	1,340.17	2.03	-0.23	0.035
95.00	-15.96	-1.22	0.00	-30.59	0.00	30.59	2,101.90	1,050.95	2,456.00	1,229.83	2.28	-0.24	0.032
100.00	-13.13	-1.06	0.00	-24.47	0.00	24.47	2,010.12	1,005.06	2,245.10	1,124.22	2.54	-0.25	0.028
105.00	-12.41	-1.02	0.00	-19.15	0.00	19.15	1,918.35	959.17	2,043.66	1,023.35	2.81	-0.27	0.025
110.00	-11.71	-0.97	0.00	-14.06	0.00	14.06	1,826.57	913.29	1,851.70	927.22	3.09	-0.28	0.022
115.00	-11.68	-0.97	0.00	-9.20	0.00	9.20	1,734.80	867.40	1,669.20	835.84	3.39	-0.29	0.018
115.22	-10.99	-0.92	0.00	-8.99	0.00	8.99	1,730.76	865.38	1,661.38	831.93	3.40	-0.29	0.017
118.80	-10.87	-0.91	0.00	-5.70	0.00	5.70	956.25	478.12	907.22	454.29	3.62	-0.29	0.024
120.00	-4.93	-0.44	0.00	-4.61	0.00	4.61	947.93	473.97	887.63	444.47	3.69	-0.29	0.016
125.00	-4.58	-0.41	0.00	-2.38	0.00	2.38	912.05	456.02	806.99	404.09	4.00	-0.30	0.011
130.00	-0.43	-0.04	0.00	-0.31	0.00	0.31	874.32	437.16	728.52	364.80	4.31	-0.30	0.001
135.00	-0.19	-0.02	0.00	-0.10	0.00	0.10	834.76	417.38	652.50	326.73	4.63	-0.30	0.001
140.00	0.00	-0.02	0.00	0.00	0.00	0.00	787.66	393.83	575.06	287.96	4.94	-0.30	0.000

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-34.66	-1.86	0.00	-194.57	0.00	194.57	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.038
5.00	-33.35	-1.87	0.00	-185.27	0.00	185.27	5,798.22	2,899.11	11,708.27	5,862.84	0.01	-0.01	0.037
10.00	-32.07	-1.87	0.00	-175.94	0.00	175.94	5,660.37	2,830.18	11,137.98	5,577.27	0.02	-0.02	0.037
15.00	-30.82	-1.87	0.00	-166.59	0.00	166.59	5,513.53	2,756.76	10,564.70	5,290.20	0.05	-0.03	0.037
20.00	-29.59	-1.87	0.00	-157.24	0.00	157.24	5,366.68	2,683.34	10,006.56	5,010.72	0.09	-0.04	0.037
25.00	-28.40	-1.86	0.00	-147.90	0.00	147.90	5,219.84	2,609.92	9,463.58	4,738.82	0.14	-0.05	0.037
30.00	-27.23	-1.86	0.00	-138.58	0.00	138.58	5,073.00	2,536.50	8,935.73	4,474.51	0.21	-0.07	0.036
35.00	-26.09	-1.84	0.00	-129.30	0.00	129.30	4,926.16	2,463.08	8,423.04	4,217.78	0.28	-0.08	0.036
40.00	-26.06	-1.85	0.00	-120.08	0.00	120.08	4,779.32	2,389.66	7,925.49	3,968.63	0.37	-0.09	0.036
40.13	-24.17	-1.81	0.00	-119.84	0.00	119.84	4,775.51	2,387.75	7,912.75	3,962.26	0.37	-0.09	0.035
45.00	-23.84	-1.81	0.00	-111.01	0.00	111.01	4,632.48	2,316.24	7,443.09	3,727.08	0.47	-0.10	0.035
45.88	-23.03	-1.79	0.00	-109.42	0.00	109.42	4,127.52	2,063.76	6,764.96	3,387.51	0.49	-0.11	0.038
50.00	-22.07	-1.77	0.00	-102.03	0.00	102.03	4,021.65	2,010.83	6,420.54	3,215.04	0.59	-0.12	0.037
55.00	-21.13	-1.75	0.00	-93.18	0.00	93.18	3,893.17	1,946.58	6,014.64	3,011.79	0.72	-0.13	0.036
60.00	-20.22	-1.72	0.00	-84.44	0.00	84.44	3,764.68	1,882.34	5,621.99	2,815.17	0.86	-0.14	0.035
65.00	-19.33	-1.69	0.00	-75.84	0.00	75.84	3,636.20	1,818.10	5,242.60	2,625.19	1.01	-0.16	0.034
70.00	-18.48	-1.65	0.00	-67.40	0.00	67.40	3,507.71	1,753.86	4,876.46	2,441.85	1.18	-0.17	0.033
75.00	-17.69	-1.62	0.00	-59.14	0.00	59.14	3,379.23	1,689.61	4,523.57	2,265.15	1.37	-0.18	0.031
79.67	-17.61	-1.61	0.00	-51.59	0.00	51.59	3,259.13	1,629.57	4,205.72	2,105.99	1.55	-0.19	0.030
80.00	-16.84	-1.57	0.00	-51.06	0.00	51.06	3,250.74	1,625.37	4,183.94	2,095.08	1.57	-0.19	0.030
83.00	-15.16	-1.47	0.00	-46.35	0.00	46.35	3,173.65	1,586.82	3,986.52	1,996.22	1.69	-0.20	0.028
84.34	-15.07	-1.47	0.00	-44.38	0.00	44.38	2,286.71	1,143.35	2,923.37	1,463.86	1.75	-0.21	0.037
85.00	-14.45	-1.43	0.00	-43.41	0.00	43.41	2,277.67	1,138.84	2,896.31	1,450.31	1.78	-0.21	0.036
90.00	-11.67	-1.24	0.00	-36.26	0.00	36.26	2,193.67	1,096.84	2,676.37	1,340.17	2.00	-0.22	0.032
95.00	-11.10	-1.20	0.00	-30.04	0.00	30.04	2,101.90	1,050.95	2,456.00	1,229.83	2.24	-0.24	0.030
100.00	-9.14	-1.04	0.00	-24.02	0.00	24.02	2,010.12	1,005.06	2,245.10	1,124.22	2.50	-0.25	0.026
105.00	-8.63	-1.00	0.00	-18.80	0.00	18.80	1,918.35	959.17	2,043.66	1,023.35	2.77	-0.26	0.023
110.00	-8.15	-0.95	0.00	-13.80	0.00	13.80	1,826.57	913.29	1,851.70	927.22	3.05	-0.27	0.019
115.00	-8.13	-0.95	0.00	-9.03	0.00	9.03	1,734.80	867.40	1,669.20	835.84	3.34	-0.28	0.015
115.22	-7.64	-0.90	0.00	-8.82	0.00	8.82	1,730.76	865.38	1,661.38	831.93	3.35	-0.28	0.015
118.80	-7.56	-0.89	0.00	-5.59	0.00	5.59	956.25	478.12	907.22	454.29	3.56	-0.29	0.020
120.00	-3.43	-0.44	0.00	-4.52	0.00	4.52	947.93	473.97	887.63	444.47	3.64	-0.29	0.014
125.00	-3.19	-0.41	0.00	-2.34	0.00	2.34	912.05	456.02	806.99	404.09	3.94	-0.29	0.009
130.00	-0.30	-0.04	0.00	-0.30	0.00	0.30	874.32	437.16	728.52	364.80	4.25	-0.30	0.001
135.00	-0.13	-0.02	0.00	-0.10	0.00	0.10	834.76	417.38	652.50	326.73	4.56	-0.30	0.000
140.00	0.00	-0.02	0.00	0.00	0.00	0.00	787.66	393.83	575.06	287.96	4.87	-0.30	0.000

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

Equivalent Modal Forces Analysis

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

Spectral Response Acceleration for Short Period (S_s):	0.18
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.19
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	2.00
Redundancy Factor (p):	1.30

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

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
35	137.50	190	1.823	1.646	1.018	0.327	54	235
34	132.50	203	1.693	1.096	0.804	0.250	44	251
33	127.50	285	1.568	0.682	0.627	0.182	45	353
32	122.50	298	1.447	0.379	0.482	0.124	32	369
31	119.40	93	1.375	0.238	0.406	0.093	8	115
30	117.01	561	1.320	0.150	0.354	0.072	35	694
29	115.11	24	1.278	0.091	0.317	0.056	1	30
28	112.50	563	1.220	0.025	0.270	0.037	18	697
27	107.50	584	1.114	-0.061	0.196	0.007	3	723
26	102.50	605	1.013	-0.106	0.138	-0.014	-7	749
25	97.50	659	0.917	-0.121	0.094	-0.026	-15	816
24	92.50	680	0.825	-0.116	0.061	-0.030	-18	842
23	87.50	722	0.738	-0.098	0.038	-0.026	-16	894
22	84.67	97	0.691	-0.084	0.028	-0.021	-2	120
21	83.67	391	0.675	-0.079	0.025	-0.019	-6	485
20	81.50	889	0.641	-0.067	0.020	-0.014	-11	1,101
19	79.84	98	0.615	-0.058	0.016	-0.009	-1	121
18	77.34	905	0.577	-0.044	0.012	-0.002	-2	1,121
17	72.50	997	0.507	-0.019	0.007	0.012	10	1,235
16	67.50	1,027	0.439	0.005	0.006	0.025	23	1,271
15	62.50	1,056	0.377	0.025	0.007	0.036	33	1,308
14	57.50	1,085	0.319	0.041	0.011	0.043	40	1,344
13	52.50	1,115	0.266	0.052	0.015	0.047	45	1,381
12	47.94	941	0.222	0.060	0.020	0.048	39	1,165
11	45.44	390	0.199	0.063	0.023	0.048	16	483
10	42.56	2,192	0.175	0.066	0.027	0.048	91	2,715
9	40.06	34	0.155	0.067	0.029	0.047	1	42
8	37.50	1,320	0.136	0.069	0.032	0.047	54	1,635
7	32.50	1,354	0.102	0.071	0.037	0.046	53	1,676
6	27.50	1,387	0.073	0.072	0.040	0.044	53	1,718
5	22.50	1,421	0.049	0.071	0.042	0.043	52	1,760
4	17.50	1,454	0.030	0.068	0.040	0.040	51	1,801
3	12.50	1,488	0.015	0.061	0.036	0.036	47	1,843
2	7.50	1,522	0.005	0.046	0.026	0.028	37	1,884

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

1	2.50	1,555	0.001	0.019	0.010	0.013	18	1,926
Stand-Off	140.00	100	1.890	1.980	1.140	0.369	32	124
18' Omni	140.00	55	1.890	1.980	1.140	0.369	18	68
CCI DTMAP7819VG12A	130.00	115	1.630	0.873	0.711	0.215	21	143
Raycap DC6-48-60-0-8	130.00	66	1.630	0.873	0.711	0.215	12	81
Ericsson RRUS-11 (50	130.00	300	1.630	0.873	0.711	0.215	56	372
Ericsson RRUS 32 (50	130.00	152	1.630	0.873	0.711	0.215	28	189
KMw AM-X-CD-14-65-00	130.00	36	1.630	0.873	0.711	0.215	7	45
Kathrein Scala 800-1	130.00	132	1.630	0.873	0.711	0.215	25	164
CSS DUO1417-8686	130.00	61	1.630	0.873	0.711	0.215	11	75
Andrew SBNHH-1D65A (	130.00	34	1.630	0.873	0.711	0.215	6	41
KMW AM-X-CD-17-65-00	130.00	60	1.630	0.873	0.711	0.215	11	74
Andrew SBNH-1D6565C	130.00	61	1.630	0.873	0.711	0.215	11	75
CCI HPA-65R-BUU-H8	130.00	136	1.630	0.873	0.711	0.215	25	168
Flat Platform w/ Han	130.00	2,000	1.630	0.873	0.711	0.215	372	2,477
Samsung PCS/AWS Dual	120.00	253	1.389	0.263	0.420	0.099	22	314
Samsung 700/850MHz D	120.00	211	1.389	0.263	0.420	0.099	18	261
RFS DB-T1-6Z-8AB-0Z	120.00	88	1.389	0.263	0.420	0.099	8	109
Antel LPA-80080/4CF	120.00	48	1.389	0.263	0.420	0.099	4	59
Antel LPA-80063/4CF	120.00	40	1.389	0.263	0.420	0.099	3	50
Amphenol Antel BXA-7	120.00	51	1.389	0.263	0.420	0.099	4	63
Commscope SBNHH-1D65	120.00	304	1.389	0.263	0.420	0.099	26	377
Flat Platform w/ Han	120.00	2,000	1.389	0.263	0.420	0.099	172	2,477
VZW Unused Reserve:	120.00	1,505	1.389	0.263	0.420	0.099	129	1,863
Kathrein Smart Bias	100.00	7	0.964	-0.117	0.114	-0.021	0	8
Ericsson KRY 112 489	100.00	31	0.964	-0.117	0.114	-0.021	-1	38
RFS APXV18-209014-C	100.00	37	0.964	-0.117	0.114	-0.021	-1	46
Commscope LNX-6515DS	100.00	101	0.964	-0.117	0.114	-0.021	-2	125
Flat Low Profile Pla	100.00	1,500	0.964	-0.117	0.114	-0.021	-28	1,858
PCTEL GPS-TMG-HR-26N	90.00	1	0.781	-0.108	0.049	-0.029	0	1
Alcatel-Lucent RRR2x	90.00	159	0.781	-0.108	0.049	-0.029	-4	197
Alcatel-Lucent 800 M	90.00	159	0.781	-0.108	0.049	-0.029	-4	197
Alcatel-Lucent 1900	90.00	180	0.781	-0.108	0.049	-0.029	-5	223
Alcatel-Lucent TD-RR	90.00	210	0.781	-0.108	0.049	-0.029	-5	260
RFS APXVSP18-C-A20	90.00	171	0.781	-0.108	0.049	-0.029	-4	212
Commscope DT465B-2XR	90.00	174	0.781	-0.108	0.049	-0.029	-4	215
Flat Low Profile Pla	90.00	1,500	0.781	-0.108	0.049	-0.029	-38	1,858
Kathrein Scala 742 2	83.00	66	0.664	-0.075	0.023	-0.017	-1	82
Flat Low Profile Pla	83.00	1,500	0.664	-0.075	0.023	-0.017	-23	1,858
		41,786	70.828	19.506	20.917	5.470	1,729	51,748

Load Case (0.9 - 0.2Sds) * DL + E EMAM

Seismic (Reduced DL) Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
35	137.50	190	1.823	1.646	1.018	0.327	54	164
34	132.50	203	1.693	1.096	0.804	0.250	44	175
33	127.50	285	1.568	0.682	0.627	0.182	45	246
32	122.50	298	1.447	0.379	0.482	0.124	32	257
31	119.40	93	1.375	0.238	0.406	0.093	8	80
30	117.01	561	1.320	0.150	0.354	0.072	35	483
29	115.11	24	1.278	0.091	0.317	0.056	1	21
28	112.50	563	1.220	0.025	0.270	0.037	18	485
27	107.50	584	1.114	-0.061	0.196	0.007	3	503
26	102.50	605	1.013	-0.106	0.138	-0.014	-7	521
25	97.50	659	0.917	-0.121	0.094	-0.026	-15	568
24	92.50	680	0.825	-0.116	0.061	-0.030	-18	586
23	87.50	722	0.738	-0.098	0.038	-0.026	-16	622
22	84.67	97	0.691	-0.084	0.028	-0.021	-2	83

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

21	83.67	391	0.675	-0.079	0.025	-0.019	-6	337
20	81.50	889	0.641	-0.067	0.020	-0.014	-11	766
19	79.84	98	0.615	-0.058	0.016	-0.009	-1	84
18	77.34	905	0.577	-0.044	0.012	-0.002	-2	780
17	72.50	997	0.507	-0.019	0.007	0.012	10	859
16	67.50	1,027	0.439	0.005	0.006	0.025	23	885
15	62.50	1,056	0.377	0.025	0.007	0.036	33	910
14	57.50	1,085	0.319	0.041	0.011	0.043	40	935
13	52.50	1,115	0.266	0.052	0.015	0.047	45	961
12	47.94	941	0.222	0.060	0.020	0.048	39	811
11	45.44	390	0.199	0.063	0.023	0.048	16	336
10	42.56	2,192	0.175	0.066	0.027	0.048	91	1,889
9	40.06	34	0.155	0.067	0.029	0.047	1	29
8	37.50	1,320	0.136	0.069	0.032	0.047	54	1,137
7	32.50	1,354	0.102	0.071	0.037	0.046	53	1,166
6	27.50	1,387	0.073	0.072	0.040	0.044	53	1,195
5	22.50	1,421	0.049	0.071	0.042	0.043	52	1,224
4	17.50	1,454	0.030	0.068	0.040	0.040	51	1,253
3	12.50	1,488	0.015	0.061	0.036	0.036	47	1,282
2	7.50	1,522	0.005	0.046	0.026	0.028	37	1,311
1	2.50	1,555	0.001	0.019	0.010	0.013	18	1,340
Stand-Off	140.00	100	1.890	1.980	1.140	0.369	32	86
18' Omni	140.00	55	1.890	1.980	1.140	0.369	18	47
CCI DTMAPB7819VG12A	130.00	115	1.630	0.873	0.711	0.215	21	99
Raycap DC6-48-60-0-8	130.00	66	1.630	0.873	0.711	0.215	12	57
Ericsson RRUS-11 (50	130.00	300	1.630	0.873	0.711	0.215	56	258
Ericsson RRUS 32 (50	130.00	152	1.630	0.873	0.711	0.215	28	131
KMW AM-X-CD-14-65-00	130.00	36	1.630	0.873	0.711	0.215	7	31
Kathrein Scala 800-1	130.00	132	1.630	0.873	0.711	0.215	25	114
CSS DUO1417-8686	130.00	61	1.630	0.873	0.711	0.215	11	52
Andrew SBNHH-1D65A (	130.00	34	1.630	0.873	0.711	0.215	6	29
KMW AM-X-CD-17-65-00	130.00	60	1.630	0.873	0.711	0.215	11	51
Andrew SBNH-1D6565C	130.00	61	1.630	0.873	0.711	0.215	11	52
CCI HPA-65R-BUU-H8	130.00	136	1.630	0.873	0.711	0.215	25	117
Flat Platform w/ Han	130.00	2,000	1.630	0.873	0.711	0.215	372	1,723
Samsung PCS/AWS Dual	120.00	253	1.389	0.263	0.420	0.099	22	218
Samsung 700/850MHz D	120.00	211	1.389	0.263	0.420	0.099	18	182
RFS DB-T1-6Z-8AB-0Z	120.00	88	1.389	0.263	0.420	0.099	8	76
Antel LPA-80080/4CF	120.00	48	1.389	0.263	0.420	0.099	4	41
Antel LPA-80063/4CF	120.00	40	1.389	0.263	0.420	0.099	3	34
Amphenol Antel BXA-7	120.00	51	1.389	0.263	0.420	0.099	4	44
Commscope SBNHH-1D65	120.00	304	1.389	0.263	0.420	0.099	26	262
Flat Platform w/ Han	120.00	2,000	1.389	0.263	0.420	0.099	172	1,723
VZW Unused Reserve:	120.00	1,505	1.389	0.263	0.420	0.099	129	1,296
Kathrein Smart Bias	100.00	7	0.964	-0.117	0.114	-0.021	0	6
Ericsson KRY 112 489	100.00	31	0.964	-0.117	0.114	-0.021	-1	27
RFS APXV18-209014-C	100.00	37	0.964	-0.117	0.114	-0.021	-1	32
Commscope LNX-6515DS	100.00	101	0.964	-0.117	0.114	-0.021	-2	87
Flat Low Profile Pla	100.00	1,500	0.964	-0.117	0.114	-0.021	-28	1,292
PCTEL GPS-TMG-HR-26N	90.00	1	0.781	-0.108	0.049	-0.029	0	1
Alcatel-Lucent RRH2x	90.00	159	0.781	-0.108	0.049	-0.029	-4	137
Alcatel-Lucent 800 M	90.00	159	0.781	-0.108	0.049	-0.029	-4	137
Alcatel-Lucent 1900	90.00	180	0.781	-0.108	0.049	-0.029	-5	155
Alcatel-Lucent TD-RR	90.00	210	0.781	-0.108	0.049	-0.029	-5	181
RFS APXVSP18-C-A20	90.00	171	0.781	-0.108	0.049	-0.029	-4	147
Commscope DT465B-2XR	90.00	174	0.781	-0.108	0.049	-0.029	-4	150
Flat Low Profile Pla	90.00	1,500	0.781	-0.108	0.049	-0.029	-38	1,292
Kathrein Scala 742 2	83.00	66	0.664	-0.075	0.023	-0.017	-1	57
Flat Low Profile Pla	83.00	1,500	0.664	-0.075	0.023	-0.017	-23	1,292
		41,786	70.828	19.506	20.917	5.470	1,729	36,003

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-49.82	-1.71	0.00	-170.40	0.00	170.40	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.036
5.00	-47.94	-1.69	0.00	-161.82	0.00	161.82	5,798.22	2,899.11	11,708.27	5,862.84	0.00	-0.01	0.036
10.00	-46.09	-1.65	0.00	-153.40	0.00	153.40	5,660.37	2,830.18	11,137.98	5,577.27	0.02	-0.02	0.036
15.00	-44.29	-1.60	0.00	-145.17	0.00	145.17	5,513.53	2,756.76	10,564.70	5,290.20	0.04	-0.03	0.035
20.00	-42.53	-1.56	0.00	-137.16	0.00	137.16	5,366.68	2,683.34	10,006.56	5,010.72	0.08	-0.04	0.035
25.00	-40.81	-1.51	0.00	-129.38	0.00	129.38	5,219.84	2,609.92	9,463.58	4,738.82	0.12	-0.05	0.035
30.00	-39.14	-1.46	0.00	-121.84	0.00	121.84	5,073.00	2,536.50	8,935.73	4,474.51	0.18	-0.06	0.035
35.00	-37.50	-1.41	0.00	-114.54	0.00	114.54	4,926.16	2,463.08	8,423.04	4,217.78	0.25	-0.07	0.035
40.00	-37.46	-1.41	0.00	-107.48	0.00	107.48	4,779.32	2,389.66	7,925.49	3,968.63	0.32	-0.08	0.035
40.13	-34.75	-1.32	0.00	-107.30	0.00	107.30	4,775.51	2,387.75	7,912.75	3,962.26	0.33	-0.08	0.034
45.00	-34.26	-1.31	0.00	-100.85	0.00	100.85	4,632.48	2,316.24	7,443.09	3,727.08	0.41	-0.09	0.034
45.88	-33.10	-1.27	0.00	-99.70	0.00	99.70	4,127.52	2,063.76	6,764.96	3,387.51	0.43	-0.09	0.037
50.00	-31.72	-1.23	0.00	-94.46	0.00	94.46	4,021.65	2,010.83	6,420.54	3,215.04	0.51	-0.10	0.037
55.00	-30.37	-1.20	0.00	-88.30	0.00	88.30	3,893.17	1,946.58	6,014.64	3,011.79	0.63	-0.11	0.037
60.00	-29.07	-1.17	0.00	-82.33	0.00	82.33	3,764.68	1,882.34	5,621.99	2,815.17	0.75	-0.13	0.037
65.00	-27.79	-1.15	0.00	-76.50	0.00	76.50	3,636.20	1,818.10	5,242.60	2,625.19	0.90	-0.14	0.037
70.00	-26.56	-1.14	0.00	-70.76	0.00	70.76	3,507.71	1,753.86	4,876.46	2,441.85	1.05	-0.15	0.037
75.00	-25.44	-1.14	0.00	-65.06	0.00	65.06	3,379.23	1,689.61	4,523.57	2,265.15	1.22	-0.17	0.036
79.67	-25.32	-1.15	0.00	-59.71	0.00	59.71	3,259.13	1,629.57	4,205.72	2,105.99	1.39	-0.18	0.036
80.00	-24.21	-1.16	0.00	-59.34	0.00	59.34	3,250.74	1,625.37	4,183.94	2,095.08	1.40	-0.18	0.036
83.00	-21.79	-1.18	0.00	-55.86	0.00	55.86	3,173.65	1,586.82	3,986.52	1,996.22	1.52	-0.19	0.035
84.34	-21.67	-1.18	0.00	-54.28	0.00	54.28	2,286.71	1,143.35	2,923.37	1,463.86	1.58	-0.20	0.047
85.00	-20.78	-1.20	0.00	-53.50	0.00	53.50	2,277.67	1,138.84	2,896.31	1,450.31	1.60	-0.20	0.046
90.00	-16.77	-1.28	0.00	-47.49	0.00	47.49	2,193.67	1,096.84	2,676.37	1,340.17	1.82	-0.22	0.043
95.00	-15.96	-1.29	0.00	-41.11	0.00	41.11	2,101.90	1,050.95	2,456.00	1,229.83	2.06	-0.24	0.041
100.00	-13.13	-1.32	0.00	-34.65	0.00	34.65	2,010.12	1,005.06	2,245.10	1,124.22	2.32	-0.25	0.037
105.00	-12.41	-1.32	0.00	-28.04	0.00	28.04	1,918.35	959.17	2,043.66	1,023.35	2.59	-0.27	0.034
110.00	-11.71	-1.30	0.00	-21.44	0.00	21.44	1,826.57	913.29	1,851.70	927.22	2.89	-0.29	0.030
115.00	-11.68	-1.30	0.00	-14.93	0.00	14.93	1,734.80	867.40	1,669.20	835.84	3.20	-0.30	0.025
115.22	-10.99	-1.26	0.00	-14.65	0.00	14.65	1,730.76	865.38	1,661.38	831.93	3.21	-0.30	0.024
118.80	-10.87	-1.26	0.00	-10.12	0.00	10.12	956.25	478.12	907.22	454.29	3.44	-0.31	0.034
120.00	-4.93	-0.81	0.00	-8.61	0.00	8.61	947.93	473.97	887.63	444.47	3.52	-0.31	0.025
125.00	-4.58	-0.76	0.00	-4.58	0.00	4.58	912.05	456.02	806.99	404.09	3.85	-0.32	0.016
130.00	-0.43	-0.11	0.00	-0.78	0.00	0.78	874.32	437.16	728.52	364.80	4.19	-0.33	0.003
135.00	-0.19	-0.05	0.00	-0.25	0.00	0.25	834.76	417.38	652.50	326.73	4.54	-0.33	0.001
140.00	0.00	-0.05	0.00	0.00	0.00	0.00	787.66	393.83	575.06	287.96	4.88	-0.33	0.000

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-34.66	-1.71	0.00	-168.31	0.00	168.31	5,907.57	2,953.79	12,233.76	6,125.97	0.00	0.00	0.033
5.00	-33.35	-1.68	0.00	-159.74	0.00	159.74	5,798.22	2,899.11	11,708.27	5,862.84	0.00	-0.01	0.033
10.00	-32.07	-1.64	0.00	-151.33	0.00	151.33	5,660.37	2,830.18	11,137.98	5,577.27	0.02	-0.02	0.033
15.00	-30.82	-1.59	0.00	-143.13	0.00	143.13	5,513.53	2,756.76	10,564.70	5,290.20	0.04	-0.03	0.033
20.00	-29.59	-1.55	0.00	-135.16	0.00	135.16	5,366.68	2,683.34	10,006.56	5,010.72	0.08	-0.04	0.032
25.00	-28.40	-1.50	0.00	-127.44	0.00	127.44	5,219.84	2,609.92	9,463.58	4,738.82	0.12	-0.05	0.032
30.00	-27.23	-1.45	0.00	-119.95	0.00	119.95	5,073.00	2,536.50	8,935.73	4,474.51	0.18	-0.06	0.032
35.00	-26.09	-1.40	0.00	-112.72	0.00	112.72	4,926.16	2,463.08	8,423.04	4,217.78	0.24	-0.07	0.032
40.00	-26.06	-1.40	0.00	-105.73	0.00	105.73	4,779.32	2,389.66	7,925.49	3,968.63	0.32	-0.08	0.032
40.13	-24.17	-1.31	0.00	-105.55	0.00	105.55	4,775.51	2,387.75	7,912.75	3,962.26	0.32	-0.08	0.032
45.00	-23.84	-1.29	0.00	-99.19	0.00	99.19	4,632.48	2,316.24	7,443.09	3,727.08	0.41	-0.09	0.032
45.88	-23.03	-1.25	0.00	-98.05	0.00	98.05	4,127.52	2,063.76	6,764.96	3,387.51	0.42	-0.09	0.035
50.00	-22.07	-1.21	0.00	-92.88	0.00	92.88	4,021.65	2,010.83	6,420.54	3,215.04	0.51	-0.10	0.034
55.00	-21.13	-1.17	0.00	-86.82	0.00	86.82	3,893.17	1,946.58	6,014.64	3,011.79	0.62	-0.11	0.034
60.00	-20.22	-1.14	0.00	-80.95	0.00	80.95	3,764.68	1,882.34	5,621.99	2,815.17	0.74	-0.13	0.034
65.00	-19.34	-1.12	0.00	-75.23	0.00	75.23	3,636.20	1,818.10	5,242.60	2,625.19	0.88	-0.14	0.034
70.00	-18.48	-1.12	0.00	-69.60	0.00	69.60	3,507.71	1,753.86	4,876.46	2,441.85	1.03	-0.15	0.034
75.00	-17.70	-1.12	0.00	-64.02	0.00	64.02	3,379.23	1,689.61	4,523.57	2,265.15	1.20	-0.17	0.033
79.67	-17.61	-1.12	0.00	-58.78	0.00	58.78	3,259.13	1,629.57	4,205.72	2,105.99	1.37	-0.18	0.033
80.00	-16.85	-1.13	0.00	-58.42	0.00	58.42	3,250.74	1,625.37	4,183.94	2,095.08	1.38	-0.18	0.033
83.00	-15.16	-1.16	0.00	-55.02	0.00	55.02	3,173.65	1,586.82	3,986.52	1,996.22	1.50	-0.19	0.032
84.34	-15.08	-1.16	0.00	-53.47	0.00	53.47	2,286.71	1,143.35	2,923.37	1,463.86	1.55	-0.19	0.043
85.00	-14.45	-1.18	0.00	-52.70	0.00	52.70	2,277.67	1,138.84	2,896.31	1,450.31	1.58	-0.19	0.043
90.00	-11.67	-1.25	0.00	-46.81	0.00	46.81	2,193.67	1,096.84	2,676.37	1,340.17	1.79	-0.21	0.040
95.00	-11.10	-1.27	0.00	-40.54	0.00	40.54	2,101.90	1,050.95	2,456.00	1,229.83	2.03	-0.23	0.038
100.00	-9.13	-1.30	0.00	-34.18	0.00	34.18	2,010.12	1,005.06	2,245.10	1,124.22	2.28	-0.25	0.035
105.00	-8.63	-1.30	0.00	-27.67	0.00	27.67	1,918.35	959.17	2,043.66	1,023.35	2.55	-0.27	0.032
110.00	-8.15	-1.28	0.00	-21.16	0.00	21.16	1,826.57	913.29	1,851.70	927.22	2.84	-0.28	0.027
115.00	-8.12	-1.28	0.00	-14.75	0.00	14.75	1,734.80	867.40	1,669.20	835.84	3.15	-0.30	0.022
115.22	-7.64	-1.25	0.00	-14.47	0.00	14.47	1,730.76	865.38	1,661.38	831.93	3.16	-0.30	0.022
118.80	-7.56	-1.24	0.00	-10.01	0.00	10.01	956.25	478.12	907.22	454.29	3.39	-0.31	0.030
120.00	-3.43	-0.80	0.00	-8.52	0.00	8.52	947.93	473.97	887.63	444.47	3.47	-0.31	0.023
125.00	-3.18	-0.75	0.00	-4.54	0.00	4.54	912.05	456.02	806.99	404.09	3.79	-0.32	0.015
130.00	-0.30	-0.10	0.00	-0.78	0.00	0.78	874.32	437.16	728.52	364.80	4.13	-0.32	0.002
135.00	-0.13	-0.05	0.00	-0.25	0.00	0.25	834.76	417.38	652.50	326.73	4.47	-0.32	0.001
140.00	0.00	-0.05	0.00	0.00	0.00	0.00	787.66	393.83	575.06	287.96	4.81	-0.32	0.000

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	26.31	0.00	50.11	0.00	0.00	2712.07	45.88	0.47
0.9D + 1.6W	26.29	0.00	37.57	0.00	0.00	2685.82	45.88	0.46
1.2D + 1.0Di + 1.0Wi	8.44	0.00	83.97	0.00	0.00	883.67	84.34	0.17
(1.2 + 0.2Sds) * DL + E ELFM	1.86	0.00	49.82	0.00	0.00	196.82	45.88	0.04
(1.2 + 0.2Sds) * DL + E EMAM	1.71	0.00	49.82	0.00	0.00	170.40	84.34	0.05
(0.9 - 0.2Sds) * DL + E ELFM	1.86	0.00	34.66	0.00	0.00	194.57	45.88	0.04
(0.9 - 0.2Sds) * DL + E EMAM	1.71	0.00	34.66	0.00	0.00	168.31	84.34	0.04
1.0D + 1.0W	6.84	0.00	41.78	0.00	0.00	701.43	45.88	0.12

Site Number: 411256

Code: ANSI/TIA-222-G

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Site Name: CANTON CT, CT

Engineering Number: OAA713339_C3_02

2/26/2018 1:49:34 PM

Customer: SPRINT NEXTEL

Base Summary

Reactions

Original Design			Analysis			Moment Design %
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	
3,921.80	41.90	38.70	2,712.07	83.97	26.31	51.22

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
60.0	2.250	66.000	Round	0	0.00	8.093	344.81	553.13	0.62

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
60.00	20	2.25" 18J	2.25	75.00	100.00	Radial	0.00	0.0	112.68	260.00	0.44	104.28	260.00	0.41