

May 27, 2014

David Martin and Members of the Siting Council Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

RE: Notice of Exempt Modification

275 North Street Easton, CT 06612

Sprint Site #: NV2.5_CT03XC361

N 41° 18′ 59.51″ W -73° 18′ 48.91″

Dear Mr. Martin and Members of the Siting Council:

On behalf of Sprint Spectrum, SBA Communications is submitting an exempt modification application to the Connecticut Siting council for modification of existing equipment at a tower facility located at 275 North Street, Easton, CT.

The 275 North Street facility consists of a 185' MONOPINE Tower owned and operated by SBA Towers, LLC. In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

As part of Sprint's Network Vision modification project, Sprint desires to upgrade their equipment to meet the new standards of 4G technology. The new equipment will allow customers to download files and browse the internet at a high rate of speed while also allowing their phones to be compatible with the latest 4G technology.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Sprint's operations at the site along with the required fee of \$625.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be



significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

- 1. The overall height of the structure will be unaffected.
- 2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than the new equipment cabinets.
- 3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
- 4. The changes in radio frequency power density will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, SBA Communications on behalf of Sprint Spectrum, respectfully submits that he proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (508) 251-0720 x 3804 with any questions you may have concerning this matter.

Thank you,

Kri Pelletier

SBA Communications Corporation
33 Boston Post Road West Suite 320

Marlborough, MA 01752 508-251-0720 x 3804 + T

508-251-1755 + F

203-446-7700 + C

kpelletier@sbasite.com



Sprint Spectrum Equipment Modification

275 North Street, Easton, CT Site number CT03XC361

Tower Owner:

SBA Towers, LLC

Equipment Configuration:

MONOPINE Tower

Current and/or approved:

- (3) RFS APXVSPP18-C-A20
- (3) ALU 1900 MHz RRUs
- (3) ALU 800 MHz RRUs
- · (3) ALU 800 MHz Filters
- (4) RFS ACU-A20-N RETs
- · (3) 1-1/4" feed lines

Planned Modifications:

- (3) RFS APXVTM14-C-I20
- (3) ALU TD-RRH8x20-25 RRUs
- (3) RFS APXVSPP18-C-A20
- (3) ALU 1900 MHz RRUs
- (3) ALU 800 MHz RRUs
- (3) ALU 800 MHz Filters
- (4) RFS ACU-A20-N RETs
- (4) 1-1/4" feed lines

Structural Information:

The attached structural analysis demonstrates that the tower and foundation will have adequate structural capacity to accommodate the proposed modifications.

Power Density:

The anticipated Maximum Composite contributions from the Sprint facility are 6.530% of the allowable FCC established general public limit. The anticipated composite MPE value for this site assuming all carriers present is 32.920% of the allowable FCC established general public limit sampled at the ground level.

MPE % 6.530% 1.200%
2010120
1.200%
15.200%
9.990%



May 27, 2014

Mr. Adam W. Dunsby First Selectman Town of Easton 225 Center Rd. Easton, CT 06612

RE:

Telecommunications Facility @ 275 North Street, Easton, CT 06612

Dear Mr. Dunsby,

In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (R.C.S.A.) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Sprint's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Sprint's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (508) 251-0720 x 3804.

Thank you,

Kri Pelletier

SBA Communications Company 33 Boston Post Road West, Suite 320 Marlborough, MA 01752

508-251-0720 x 3804 + T

508-251-1755 + F

203-446-7700 + C

kpelletier@sbasite.com



RADIO FREQUENCY FCC REGULATORY COMPLIANCE MAXIMUM PERMISSIBLE EXPOSURE (MPE) ASSESSMENT

Sprint Existing Facility

Site ID: CT03XC361

Aspeth / Norh Easton

275 North Street Easton, CT 06612

May 21, 2014

EBI Project Number: 62143082

21 B Street Burlington, MA 01803 Tel: (781) 273.2500 Fax: (781) 273.3311



May 21, 2014

Sprint Attn: RF Engineering Manager 1 International Boulevard, Suite 800 Mahwah, NJ 07495

Re: Radio Frequency Maximum Permissible Exposure (MPE) Assessment for Site: CT03XC361 - Aspeth / Norh Easton

Site Total: 32.920% - MPE% in full compliance

EBI Consulting was directed to analyze the proposed upgrades to the existing Sprint facility located at 275 North Street, Easton, CT, for the purpose of determining whether the radio frequency (RF) exposure levels from the proposed Sprint equipment upgrades on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μ W/cm2). The number of μ W/cm2 calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μ W/cm²). The general population exposure limit for the cellular band (850 MHz Band) is approximately 567 μ W/cm², and the general population exposure limit for the 1900 MHz and 2500 MHz bands is 1000 μ W/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed upgrades to the existing Sprint Wireless antenna facility located at 275 North Street, Easton, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario. Actual values seen from this site will be dramatically less than those shown in this report. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all emissions were calculated using the following assumptions:

- 1) 2 channels in the 1900 MHz Band were considered for each sector of the proposed installation.
- 2) 1 channel in the 800 MHz Band was considered for each sector of the proposed installation
- 3) 2 channels in the 2500 MHz Band were considered for each sector of the proposed installation.
- 4) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 5) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications was used in this direction.



- 6) The antennas used in this modeling are the RFS APXVSPP18-C-A20 and the RFS APXVTMM-C-120. This is based on feedback from the carrier with regards to anticipated antenna selection. The RFS APXVSPP18-C-A20 has a 15.9 dBd gain value at its main lobe at 1900 MHz and 13.4 dBd at its main lobe for 850 MHz. The RFS APXVTMM-C-120 has a 15.9 dBd gain value at its main lobe at 2500 MHz. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario
- 7) The antenna mounting height centerline for the proposed antennas is **175 feet** above ground level (AGL).
- 8) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits

	Site ID	Site ID CT03XC361 - Aspeth / Norh Easton														
	Site Addresss	275 North	Street, Easton,	CT 06612												
	Site Type		Monopole													
					<u> </u>											
	Sector 1															
						Power			Antenna Gain							
						Out Per			in direction							Power
Antenna						Channel	Number of	Composite	of sample	Antenna	analysis		Cable Loss	Additional		Density
Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	(Watts)	Channels	Power	point (dBd)	Height (ft)	height	Cable Size	(dB)	Loss (dB)	ERP	Percentage
1a	RFS	APXVSPP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	2	40	15.9	175	169	1/2 "	0.5	3	695.12033	0.87497%
1a	RFS	APXVSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	175	169	1/2 "	0.5	3	195.44744	0.43389%
1B	RFS	APXVTMM14-C-120	RRH	2500 MHz	CDMA / LTE	20	2	40	13.4	175	169	1/2 "	0.5	3	390.89489	0.86778%
												Sector to	otal Power D	Density Value:	2.177%	
	Sector 2															
						Power			Antenna Gain							
						Out Per			in direction							Power
Antenna			5 II T			Channel	Number of		of sample	Antenna	analysis	6 11 6:	Cable Loss		500	Density
Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	(Watts)	Channels	Power	point (dBd)	Height (ft)	height	Cable Size	` '	Loss (dB)	ERP	Percentage
2a	RFS	APXVSPP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	2	40	15.9	175	169	1/2 "	0.5	3	695.12033	0.87497%
2a	RFS	APXVSPP18-C-A20	RRH RRH	850 MHz	CDMA / LTE	20	1	20	13.4	175 175	169 169	1/2 "	0.5	3	195.44744	0.43389%
2B	RFS	APXVTMM14-C-120	ккн	2500 MHz	CDMA / LTE	20	2	40	13.4	1/5	169	,			390.89489	0.86778%
												Sector to	otal Power L	Density Value:	2.1//%	
							Sector 3									
						Power			Antenna Gain							
						Out Per			in direction							Power
Antenna							Number of	Composite	of sample	Antenna	analysis		Cable Loss	Additional		Density
Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	(Watts)	Channels	Power	point (dBd)	Height (ft)	height	Cable Size		Loss (dB)	ERP	Percentage
3a	RFS	APXVSPP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	2	40	15.9	175	169	1/2 "	0.5	3	695.12033	0.87497%
3a	RFS	APXVSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	175	169	1/2 "	0.5	3	195.44744	0.43389%
3B	RFS	APXVTMM14-C-120	RRH	2500 MHz	CDMA / LTE	20	2	40	13.4	175	169	1/2 "	0.5	3	390.89489	0.86778%
					,							Sector to	otal Power D	Density Value:	2.177%	
														•		

Site Composite MPE %						
Carrier	MPE %					
Sprint	6.530%					
T-Mobile	1.200%					
Verizon Wireless	15.200%					
AT&T	9.990%					
Total Site MPE % 32.920%						



Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public Maximum Permissible Exposure (MPE) to radio frequency energy.

The anticipated Maximum Composite contributions from the Sprint facility are **6.530%** (**2.177%** from each sector) of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **32.920**% of the allowable FCC established general public limit sampled at 6 feet above ground level. This total composite site value is based upon MPE values listed in the Connecticut Siting Council database for existing carrier emissions.

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

Scott Heffernan

RF Engineering Director

EBI Consulting

21 B Street

Burlington, MA 01803



FDH Engineering, Inc., 6521 Meridien Drive Raleigh, NC 27615, Ph. 919.755.1012, Fax 919.755.1031

Structural Analysis for SBA Network Services, Inc.

185' Monopine

SBA Site Name: North Easton SBA Site ID: CT00707-S-02 Sprint Site Name: Aspeth/Easton N. Sprint Site ID: CT03XC361

FDH Project Number 1462FX1400

Analysis Results

Tower Components	99.9%	Sufficient
Foundation	92.9%	Sufficient

Prepared By:

Blake A. Wilson, El Project Engineer Reviewed By:

Bradley R. Newman, PE Senior Project Engineer CT PE License No. 29630

FDH Engineering, Inc. 6521 Meridien Drive

Raleigh, NC 27616 (919) 755-1012 info@fdh-inc.com

April 8, 2014



Prepared pursuant to TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures & 2005 Connecticut Building Code

Document No. ENG-RPT-501S Revision Date: 06/17/11

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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Engineering, Inc. performed a structural analysis of the monopole located in Easton, CT to determine whether the tower is structurally adequate to support both the existing and proposed loads, pursuant to the *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F and 2005 Connecticut Building Code.* Information pertaining to the existing/proposed antenna loading, current tower geometry, soil parameters, foundation dimensions, and member sizes was obtained from:

Paul J. Ford and Company (Job No. 20099-146) original design drawings dated August 10, 1999
Jaworski Geotech, Inc. (Project No. C98404G) Geotechnical Evaluation dated July 30, 1999
SBA Network Services, Inc.

The basic design wind speed per the TIA/EIA-222-F standards and 2005 Connecticut Building Code is 85 mph without ice and 38 mph with 3/4" radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the existing and proposed antennas from Sprint in place at 175', the tower meets the requirements of the *TIA/EIA-222-F* standards and 2005 Connecticut Building Code provided the **Recommendations** listed below are satisfied. Furthermore, provided the foundation was designed and constructed to support the original design reactions (see Paul J. Ford Job No. 20099-146), the foundation should have the necessary capacity to support the existing and proposed loading. For a more detailed description of the analysis of the tower, see the **Results** section of this report.

Our structural analysis has been performed assuming all information provided to FDH Engineering, Inc. is accurate (i.e. the steel data, tower layout, existing antenna loading, and proposed antenna loading) and that the tower has been properly erected and maintained per the original design drawings.

Recommendations

To ensure the requirements of the *TIA/EIA-222-F* standards and *2005 Connecticut Building Code* are met with the existing and proposed loading in place, we have the following recommendations:

- 1. The proposed feedlines must be installed inside of the pole's shaft.
- 2. RRU/RRH stipulation: the proposed equipment may be installed in any arrangement as determined by the client.

APPURTENANCE LISTING

The proposed and existing antennas with their corresponding cables/coax lines are shown in **Table 1**. If the actual layout determined in the field deviates from this layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.

Table 1 – Appurtenance Loading

Existing Loading:

Antenna Elevation (ft)	Description	Feedlines ¹	Carrier	Mount Elevation (ft)	Mount Type
185	(3) EMS-RR90-17-02DP (6) Allen Telecom FE15S01P77/75 TMAs	(6) 1-5/8"	T-Mobile	185	(3) Cobra Arms
	6' Branches				
179.5	6' Branches				
(3) RFS APXVSPP18-C-A20 (3) ALU 1900 MHz RRUs 175 (3) ALU 800 MHz RRUs (3) ALU 800 MHz Filters (4) RFS ACU-A20-N RETs		(3) 1-1/4"	Sprint	175	(3) Cobra Arms
174.5	7' Branches				
169.5	8' Branches				
165	(2) Swedcom SLCP 2X6014 (1) Antel BXA 70063/6CF_4 (4) Swedcom SC-E 6014 Rev 2 (2) Antel LPA 80063/6CF (3) Antel BXA 171063/8BF (6) RFS FD9R6004/2C-3L Diplexers	(12) 1-5/8"	Verizon	165	(3) Cobra Arms
164.5	8' Branches				
159.5	9' Branches				
155	(6) Powerwave 7770.00 (3) Powerwave P65-16-XLH-RR (6) Powerwave LGP 21401 TMAs (6) Powerwave LGP21903 Diplexers (6) Ericsson RRUS-11 RRUs (1) Raycap DC6-48-60-18-8F Surge Suppressor	(12) 1-5/8" (1) Fiber (2) DC Power	AT&T	155	(3) Cobra Arms
154.5	9' Branches				
149.5	10' Branches				
144.5	11' Branches				

^{1.} Feedlines installed inside the pole's shaft, unless otherwise noted.

Proposed Loading:

Antenna Elevation (ft)	Description	Feedlines	Carrier	Mount Elevation (ft)	Mount Type
175	(3) RFS APXVTM14-C-I20 (3) ALU TD-RRH8x20-25 RRUs (3) RFS APXVSPP18-C-A20 (3) ALU 1900 MHz RRUs (3) ALU 800 MHz RRUs (3) ALU 800 MHz Filters (4) RFS ACU-A20-N RETs	(4) 1-1/4"	Sprint	175	(3) Cobra Arms

RESULTS

Based on information obtained from the original design drawings, the yield strength of steel for individual members was as follows:

Table 2 - Material Strength

Member Type	Yield Strength
Tower Shaft Sections	65 ksi
Base Plate	50 ksi
Anchor Bolts	75 ksi

Table 3 displays the summary of the ratio (as a percentage) of force in the member to their capacities. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. *Note: Capacities up to 100% are considered acceptable.* **Table 4** displays the maximum foundation reactions.

If the assumptions outlined in this report differ from actual field conditions, FDH Engineering, Inc. should be contacted to perform a revised analysis. Furthermore, as no information pertaining to the allowable twist and sway requirements for the existing or proposed appurtenances was provided, deflection and rotation were not taken into consideration when performing this analysis.

See the **APPENDIX** for detailed modeling information.

Table 3 – Summary of Working Percentage of Structural Components

Section No.	Elevation ft	Component Type	Size	% Capacity*	Pass Fail
L1	185 - 143.75	Pole	TP33.22x21.375x0.1875	99.9	Pass
L2	143.75 - 94.0833	Pole	TP47.108x31.6042x0.375	91.9	Pass
L3	94.0833 - 46.1667	Pole	TP60.118x44.6114x0.4375	87.8	Pass
L4	46.1667 - 0	Pole	TP72.5x56.9936x0.4375	92.6	Pass
		Anchor Bolts	(24) 2.25" ø w/ BC = 79.875" BC	85.6	Pass
		Base Plate	79.625" SQ. PL x 3.5" thk.	58.8	Pass

^{*}Capacities include 1/3 allowable increase for wind.

Table 4 - Maximum Base Reactions

Base Reactions	Current Analysis (TIA/EIA-222-F)	Original Design (TIA/EIA-222-F)
Axial	57 k*	52 k
Shear	49 k	53 k
Moment	6,762 k-ft	7,275 k-ft

^{*}Given our experience with foundations of a similar nature, the vertical load will not control.

GENERAL COMMENTS

This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading information) modeled. If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, FDH Engineering, Inc. should be notified immediately to perform a revised analysis.

LIMITATIONS

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Engineering, Inc.

Document No. ENG-RPT-501S Revision Date: 06/17/11

APPENDIX

185.0 ft 33.2200 0.1875 8 143.8 ft 54.00 31.6007 47.1080 48 A572-65 94.1 ft 54.00 60.1180 46.2 ft AXIAL 76 K SHEAR 72.5000 18 TORQUE 1 kip-ft 38 mph WIND - 0.7500 in ICE AXIAL 57 K SHEAR 49 K 0.0 ft TORQUE 6 kip-ft 40.4 Socket Length (ft) Number of Sides REACTIONS - 85 mph WIND Thickness (in) Top Dia (in) Bot Dia (in) Weight (K) Length (ft)

DESIGNED APPURTENANCE LOADING

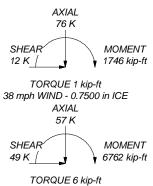
		TENANCE LOADING	
TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod	185	TD-RRH8x20-25	175
RR90-17-02DP w/Mount Pipe	185	TD-RRH8x20-25	175
RR90-17-02DP w/Mount Pipe	185	TD-RRH8x20-25	175
RR90-17-02DP w/Mount Pipe	185	7' Branches	174.5
(3) Empty Pipe Mount	185	8' Branches	169.5
(3) Empty Pipe Mount	185	(2) LPA-80063/6CF w/ Mount Pipe	165
(3) Empty Pipe Mount	185	Antel BXA-70063/6CF-4 W/Mount Pipe	165
(2) FE15S01P77/75 TMA	185	(3) BXA-171063-8BF-EDIN-X w/ Mount	165
(2) FE15S01P77/75 TMA	185	Pipe	
(2) FE15S01P77/75 TMA	185	(4) SC-E 6014 Rev 2 w/ Mount Pipe	165
(3) Cobra Mounts	185	(2) RFS FD9R6004/2C-3L Diplexer	165
6' Branches	185	(2) RFS FD9R6004/2C-3L Diplexer	165
6' Branches	179.5	(2) RFS FD9R6004/2C-3L Diplexer	165
(2) Empty Pipe Mount	175	(3) Cobra Mounts	165
(2) Empty Pipe Mount	175	(2) SLCP 2X6014 w/Mount Pipe	165
(2) Empty Pipe Mount	175	8' Branches	164.5
(3) Cobra Mounts	175	9' Branches	159.5
RFS APXVSPP18-C-A20 w/Mount	175	(2) 7770.00 W/Mount Pipe	155
Pipe		(2) 7770.00 W/Mount Pipe	155
RFS APXVSPP18-C-A20 w/Mount	175	(2) 7770.00 W/Mount Pipe	155
Pipe		P65-16-XLH-RR w/Mount Pipe	155
RFS APXVSPP18-C-A20 w/Mount Pipe	175	P65-16-XLH-RR w/Mount Pipe	155
ALU 1900MHz RRU	175	P65-16-XLH-RR w/Mount Pipe	155
ALU 1900MHz RRU	175	(2) LGP 21401 TMA	155
	-	(2) LGP 21401 TMA	155
ALU 1900MHz RRU	175	(2) LGP 21401 TMA	155
ALU 800MHz RRU	175	(2) LGP21903 Diplexer	155
ALU 800MHz RRU	175	(2) LGP21903 Diplexer	155
ALU 800MHz RRU	175	(2) LGP21903 Diplexer	155
ALU 800MHz FILTER	175	(2) RRUS 11 RRU	155
ALU 800MHz FILTER	175	(2) RRUS 11 RRU	155
ALU 800MHz FILTER	175	(2) RRUS 11 RRU	155
RFS ACU-A20-N RET	175	Raycap DC6-48-60-18-8F Surge	155
RFS ACU-A20-N RET	175	Suppressor	
(2) RFS ACU-A20-N RET	175	(3) Cobra Mounts	155
APXVTM14-C-I20 w/Mount Pipe	175	9' Branches	154.5
APXVTM14-C-I20 w/Mount Pipe	175	10' Branches	149.5
APXVTM14-C-I20 w/Mount Pipe	175	11' Branches	144.5

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 kei	80 kei			

TOWER DESIGN NOTES

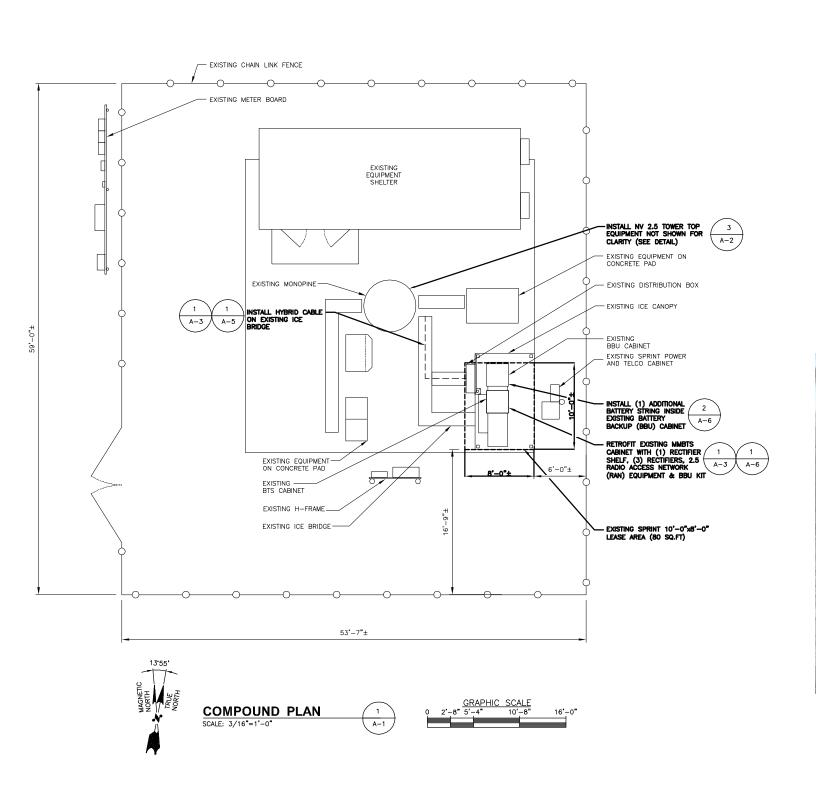
- Tower is located in Fairfield County, Connecticut.
 Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
 Tower is also designed for a 38 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
- Deflections are based upon a 50 mph wind.
 TOWER RATING: 99.9%



Tower Analysis

FDH Engineering, Inc. 6521 Meridien Drive, Suite 107 Raleigh, North Carolina Phone: 9197551012 FAX: 9197551031

North Easton, CT00707-S							
Project: 1462FX1400							
Client: SBA Network Services,	Inc. Drawn by: Blake Wilson	App'd:					
Code: TIA/EIA-222-F	Date: 04/08/14	Scale: NTS					
Path:	•	Dwg No. ⊏_					





RAN EQUIPMENT PHOTO DETAIL (2

Sprint'

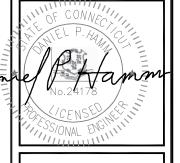
1 INTERNATIONAL BLVD, SUITE 800 MAHWAH, NJ 07495 TEL: (800) 357-7641



SBA COMMUNICATIONS CORP. 33 BOSTON POST ROAD WEST, SUITE 320 MARLBOROUGH, MA 01752 TEL: [508] 251-0720



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 TEL: [978] 557-553 N. ANDOVER, MA 01845 FAX: [978] 336-556



CHECKED BY:

APPROVED BY:

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SUBMITTALS REV. DATE DESCRIPTION 0 05/22/14 ISSUED FOR CONSTRUCTION SF

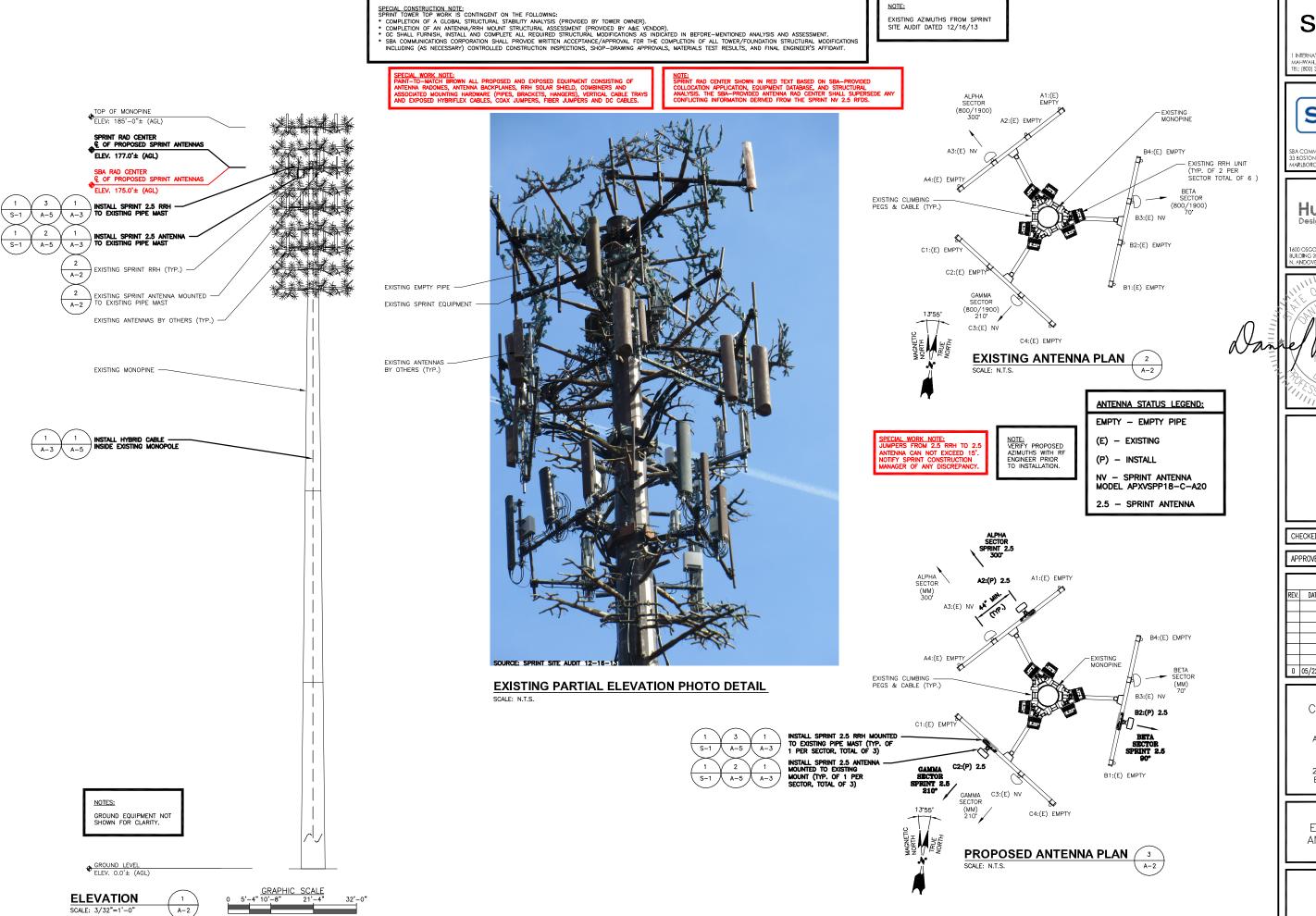
DPH

SITE NUMBER: CT03XC361-A

SITE NAME: ASPETH/EASTON N.

SITE ADDRESS: 275 NORTH STREET EASTON, CT 06612

COMPOUND PLAN



Sprint'

1 INTERNATIONAL BLVD, SUITE 800 MAHWAH, NJ 07495 TEL: (800) 357-7641



SBA COMMUNICATIONS CORP. 33 BOSTON POST ROAD WEST, SUITE 320 MARLBOROUGH, MA 01752 TEL: [508] 251-07



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 TEL; [978] 557-55 N. ANDOVER, MA 01845 FAX: [978] 336-55



CHECKED BY:

DPH

APPROVED BY:

SUBMITTALS

REV. DATE DESCRIPTION BY

D 05/22/14 ISSUED FOR CONSTRUCTION SF

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CT03XC361—A
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SITE ADDRESS: 275 NORTH STREET EASTON, CT 06612

SHEET TITE

ELEVATION AND ANTENNA PLANS

SHEET NUMBI

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