

CTNH410A

March 4, 2014

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

RE:

Notice of Exempt Modification 170 S. East Road, New Hartford, CT 06057 N 41° 49′ 2″ W -72° 58′ 15″

Dear Mr. Martin and Members of the Siting Council:

On behalf of T-Mobile, SBA Communications is submitting an exempt modification application to the Connecticut Siting council for modification of existing equipment at a tower facility located at 170 S. East Rd, New Hartford, CT.

The 170 S. East Rd, New Hartford, CT facility consists of a 160' Monopole Tower owned and operated by SBA Towers II LLC. In order to accommodate technological changes and enhance system performance in the State of Connecticut, T-Mobile 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 T-Mobile's modernization project, T-Mobile 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 T-Mobile'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 T-Mobile, 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 $508.251.0720 \times 3804$ with any questions you may have concerning this matter.

Thank you,

Kri Pelletier

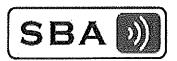
SBA Communications Corporation 33 Boston Post Road West Suite 320 Marlborough, MA 01752

508-251-0720 x 3804 + T

508-251-1755 + F

203-446-7700 + C

kpelletier@sbasite.com



T-Mobile Equipment Modification

170 S. East Rd, New Hartford, CT Site number CTNH410A

Tower Owner:

SBA Towers II LLC

Equipment Configuration:

Monopole Tower

Current and/or approved:

(9) RFS APX16DWV-16DWV-S-E-ACU

(6) Ericsson KRY 112 144-122 TMAs

• (12) 1-5/8" Coax and Lines

Planned Modifications:

- (3) Ericsson Air B2A B4P
- (3) Ericsson Air B4A B2P
- (3) Ericsson KRY112 144 TMAs
- (12) 1-5/8" Coax and Lines
- (1) 1-5/8" Fiber

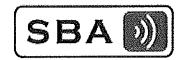
Structural Information:

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 T-Mobile facility are 0.503% of the allowable FCC established general public limit. The anticipated composite MPE value for this site assuming all carriers present is 34.023% of the allowable FCC established general public limit sampled at the ground level.

Site Composite MPE %					
Сапіег	MPE %				
T-Mobile	0.503%				
T&TA	20.540%				
MetroPCS	5,630%				
Sprint	5.270%				
Verizon Wireless	2.080%				
Total Site MPE %	34,023%				



March 4, 2014

Mr. Daniel V. Jerram First Selectman Town of New Hartford 530 Main Street New Hartford, CT 06057

RE: Telecommunications Facility @ 170 S. East Road, New Hartford, CT

Dear Mr. Jerram,

In order to accommodate technological changes and enhance system performance in the State of Connecticut, T-Mobile 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 T-Mobile'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 T-Mobile'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 EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CTNH410A

Litchfield Bay Comm 170 Southeast Road New Hartford, CT 06017

February 28, 2014

EBI PROJECT NUMBER: 62141020



February 28, 2014

T-Mobile USA Attn: Jason Overbey, RF Manager 35 Griffin Road South Bloomfield, CT 06002

Re: Emissions Values for Site: CTNH410A - Litchfield Bay Comm

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 170 Southeast Road, New Hartford, CT, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located 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 is 567 μ W/cm2, and the general population exposure limit for the PCS and AWS 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 T-Mobile Wireless antenna facility located at 170 Southeast Road, New Hartford, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, the actual antenna pattern gain value in the direction of the sample area was used. For this report the sample point is a 6 foot person standing at the base of the tower

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (1935.000 MHz—to 1945.000 MHz / 1980.000 MHz—to 1985.000 MHz) were considered for each sector of the proposed installation.
- 2) 2 UMTS channels (2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation
- 3) 2 LTE channels (2140.000 MHz to 2145.000 MHz) 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 actual gain in this direction was used per the manufactures supplied specifications.
- 6) The antenna used in this modeling is the Ericsson AIR21 for LTE, UMTS and GSM. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.6 dBd gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications



- 7) The antenna mounting height centerline of the proposed antennas is **150 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	CTNH410A - Litchfield Bay Comm
Site Addresss	170 Southeast Road, New Hartford, CT 06017
Site Type	Monopole

					· 												
	Sector 1																
Antenna Number 1a 1b 2a 2B	Antenna Make Ericsson Ericsson Ericsson Ericsson	Antenna Model AIR21 B4A/B2P AIR21 B4A/B2P AIR21 B2A / B4P AIR21 B2A / B4P	Status Active Not Used Active Passive	Frequency Band AWS - 2100 MHz - PCS - 1950 MHz AWS - 2100 MHz	Technology LTE - GSM / UMTS UMTS	Power Out Per Channel (Watts) 60 30	Number of Channels 2 2 2 2	Composite Power 120 0 60 60	Antenna Gain in direction of sample point (dBd) -3.95 -3.95 -3.95 -3.95	Antenna Height (ft) 150 150 150	analysis height 144 144 144 144	Cable Size None None 1-5/8" 1-5/8"	(dB) 0 0 0	Additional Loss 0 0 0 0 ensity Value:	ERP 48.326044 0 24.163022 24.163022 0.168%	Power Density Value 0.837842 0 0.418921	Power Density Percentage 0.08378% 0.0000% 0.04189% 0.04189%
							Sa	ctor 2				Sector tot	ai rowei De	ensity value.	0.106/6		
							36	ctor 2					ı				
Antenna						Power Out Per Channel	Number of		Antenna Gain in direction of sample	Antenna	analysis			Additional		Power Density	Power Density
	Antenna Make	Antenna Model AIR21 B4A/B2P	Status	Frequency Band	Technology LTE	(Watts)	Channels 2	Power 120	point (dBd) -3.95	Height (ft)	height	Cable Size	(dB)	Loss	ERP 48.326044	Value 0.837842	Percentage 0.08378%
1a 1b	Ericsson Ericsson	AIR21 B4A/B2P	Active Not Used	AWS - 2100 MHz	LIE	60		0	-3.95	150 150	144 144	None None	0	0	0	0.837842	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	150	144	1-5/8"	0	0	24.163022	0.418921	0.00000%
28	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	150	144	1-5/8"	0	0	24.163022	0.418921	0.04189%
	211033011	/III.EZ BE/II/ B II	1 433170	7445 2100 14112	011.13	50		- 00	3.33	150	211			ensity Value:	0.168%	0.110321	0.0 110370
							Se	ctor 3				_					
Antenna						Power Out Per Channel	Number of	Composite	Antenna Gain in direction of sample	Antonna	analysis		Cable Loss	Additional		Power Density	Power Density
	Antenna Make	Antenna Model	Status	Frequency Band	Technology	(Watts)	Channels	Power	point (dBd)	Antenna Height (ft)	,	Cable Size		Loss	ERP	Value	•
1a	Ericsson	AIR21 B4A/B2P	Status Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	Height (π)	height 144	None None	(08)	O	48.326044	0.837842	Percentage 0.08378%
1b	Ericsson	AIR21 B4A/B2P	Not Used		LIE -	00		0	-3.95	150	144	None	0	0	0	0.837842	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	150	144	1-5/8"	0	0	24.163022	0.418921	0.00000%
28	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	150	144	1-5/8"	0	0	24.163022	0.418921	0.04189%
												,.		ensity Value:	0.168%		
	Sector total Portion Density Funder - 0.2007																

Site Composite MPE %					
Carrier MPE %					
T-Mobile	0.503%				
AT&T	20.540%				
MetroPCS	5.630%				
Sprint	5.270%				
Verizon Wireless	2.080%				
Total Site MPE %	34.023%				



Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public exposure to RF Emissions.

The anticipated Maximum Composite contributions from the T-Mobile facility are **0.503**% (**0.168**% **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 **34.023**% of the allowable FCC established general public limit sampled at the ground level. This is based upon 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 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 27616, Ph. 919.755.1012

Structural Analysis for SBA Network Services, Inc.

159' Monopole Tower (160' A.G.L.)

SBA Site Name: New Hartford 2 SBA Site ID: CT12219-A-00 T-Mobile Site ID: CTNH410A

FDH Project Number 1422R71400

Analysis Results

Tower Components	51.9%	Sufficient
Foundation	63.0%	Sufficient

Prepared By: Javel Duncan

> Jarel Duncan, El Project Engineer

> > FDH Engineering, Inc. 6521 Meridien Drive Raleigh, NC 27616 (919) 755-1012 info@fdh-inc.com

Reviewed By:

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



February 18, 2014

Prepared pursuant to TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures & 2005 Connecticut State 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 New Hartford, 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 State Building Code. Information pertaining to the existing/proposed antenna loading, current tower geometry, foundation dimensions, geotechnical data, and member sizes was obtained from:

Engineered Endeavors, Inc. (Job No. 15635) Structure Design Calculations dated October 9, 2008
Engineered Endeavors, Inc. (Job No. 15635) Design Calculations For A Spread Footer Foundation dated
October 16, 2008
Dr. Clarence Welti, PE, PC Geotechnical Engineering (Project Name: Sprint Site CT33XC271) Geotechnical
Study dated January 8, 2004
FDH, Inc. (Project No. 09-11025T) TIA Inspection Report dated November 24, 2009
SBA Network Services, Inc.

The basic design wind speed per the TIA/EIA-222-F standards and 2005 Connecticut State Building Code is 80 mph without ice and 28 mph with 1 " radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the existing and proposed antennas from T-Mobile in place at 150 ft, the tower meets the requirements of the *TIA/EIA-222-F* standards and *2005 Connecticut State Building Code* provided the **Recommendations** listed below are satisfied. Furthermore, provided the existing foundation was designed and constructed to support the original design reactions (see EEI Job No. 15635), the foundations 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 State Building Code* are met with the existing and proposed loading in place, we have the following recommendations:

- 1. The proposed coax should be installed inside the monopole's shaft.
- 2. The existing TMAs should be installed directly behind the proposed panel antennas.

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 the layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.*

Table 1 - Appurtenance Loading

Existing Loading:

Antenna Elevation (ft)	Description	Coax and Lines ¹	Carrier	Mount Elevation (ft)	Mount Type
163.25	(6) Swedcom SCE-6014				
162	(3) Antel BXA-70063-6CF (3) Antel BXA 185060/12CF	(12) 1-5/8"	Verizon	160	(1) 14' Low Profile Platform
150	(9) RFS APX16DWV-16DWV-S-E-ACU (6) Ericsson KRY 112 144-122 TMAs	(12) 1-5/8"	T-Mobile	150	(3) T-Arms
130	(3) Powerwave P65-17-XLH-RR (6) Ericsson RRUS-11 RRUs (1) Andrew ABT-DFDM-ADBH Surge Arrestor (1) Raycap DC6-48-60-18-8F Surge Arrestor	(24) 1-5/8" (1) 7/16" Fiber ²	New Cingular	129	(3) 12' T-Frames
129	(9) Powerwave 7770.00 (24) Powerwave LGP21401 TMAs	(2) 3/4" DC ²			
108.75	(3) RFS APXV18-2065175	(6) 1-5/8"	Pocket	108.75	(3) 6' x 2" Pipe Mounts

^{1.)} Coax installed inside the pole's shaft unless otherwise noted.

Proposed Loading:

Antenna Elevation (ft)	Description	Coax and Lines	Carrier	Mount Elevation (ft)	Mount Type
150	(3) Ericsson Air B2A B4P (3) Ericsson Air B4A B2P (3) Ericsson KRY112 144 TMAs	(12) 1-5/8" (1) 1-5/8" Fiber	T-Mobile	150	(3) T-Arms

^{2.)} New Cingular's (1) 7/16" fiber and (2) 3/4" DC power cables are installed inside (1) 3" conduit inside the pole's shaft.

RESULTS

The following yield strength of steel for individual members was used for analysis:

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	160 - 140.667	Pole	TP33.07x29x0.1875	13.7	Pass
L2	140.667 - 93.0837	Pole	TP42.6x31.7126x0.25	49.0	Pass
L3	93.0837 - 46.5	Pole	TP51.79x40.8846x0.375	48.8	Pass
L4	46.5 - 1	Pole	TP60.5x49.5836x0.4375	51.9	Pass
		Anchor Bolts	(24) 2.25"ø w/ BC = 68"	40.3	Pass
		Base Plate	74"ø PL x 3.25" thk.	27.1	Pass

Capacities include a 1/3 allowable stress increase for wind.

Table 4 - Maximum Base Reactions

Base Reactions	Current Analysis (TIA/EIA-222-F)	Original Design (ANSI/TIA-222-G)		
Axial	43 k	49 k		
Shear	25 k	51 k		
Moment	2,729 k-ft	5,847 k-ft		

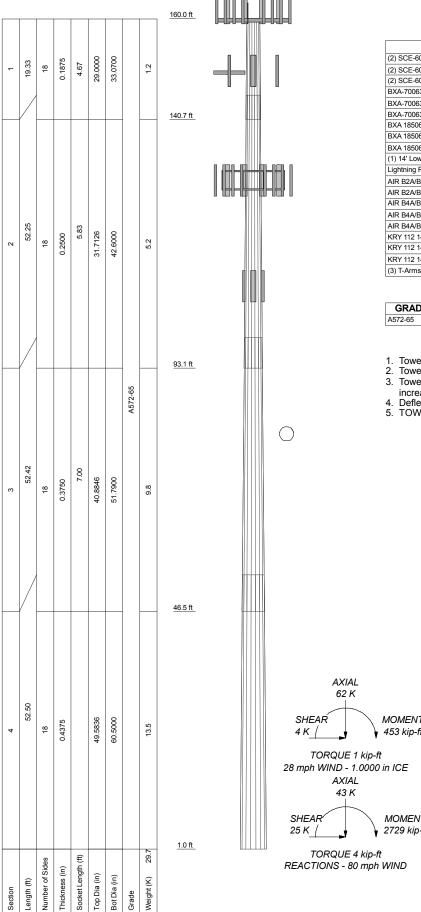
GENERAL COMMENTS

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.

APPENDIX



DESIGNED APPURTENANCE LOADING

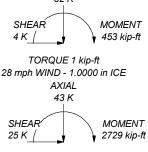
TYPE	ELEVATION	TYPE	ELEVATION
(2) SCE-6014 w/ Mount Pipe	160	AIR B2A/B4P w/Mount Pipe	150
(2) SCE-6014 w/ Mount Pipe	160	(3) 7770.00 W/Mount Pipe	129
(2) SCE-6014 w/ Mount Pipe	160	(3) 7770.00 W/Mount Pipe	129
BXA-70063-6CF w/ Mount Pipe	160	P65-17-XLH-RR w/Mount Pipe	129
BXA-70063-6CF w/ Mount Pipe	160	P65-17-XLH-RR w/Mount Pipe	129
BXA-70063-6CF w/ Mount Pipe	160	P65-17-XLH-RR w/Mount Pipe	129
BXA 185060/12CF w/ Mount Pipe	160	(8) LGP21401 TMA	129
BXA 185060/12CF w/ Mount Pipe	160	(8) LGP21401 TMA	129
BXA 185060/12CF w/ Mount Pipe	160	(8) LGP21401 TMA	129
(1) 14' Low Profile Platform	160	(2) RRUS-11	129
Lightning Rod	159	(2) RRUS-11	129
AIR B2A/B4P w/Mount Pipe	150	(2) RRUS-11	129
AIR B2A/B4P w/Mount Pipe	150	ABT-DFDM-ADBH	129
AIR B4A/B2P w/Mount Pipe	150	DC6-48-60-18-8F Surge Arrestor	129
AIR B4A/B2P w/Mount Pipe	150	(3) 12' T-Frames	129
AIR B4A/B2P w/Mount Pipe	150	(3) 7770.00 W/Mount Pipe	129
KRY 112 144 TMA	150	APXV18-2065175 w/Mount Pipe	108.75
KRY 112 144 TMA	150	APXV18-2065175 w/Mount Pipe	108.75
KRY 112 144 TMA	150	APXV18-2065175 w/Mount Pipe	108.75
(3) T-Arms	150		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu	
A572-65	65 kei	8∩ kei				

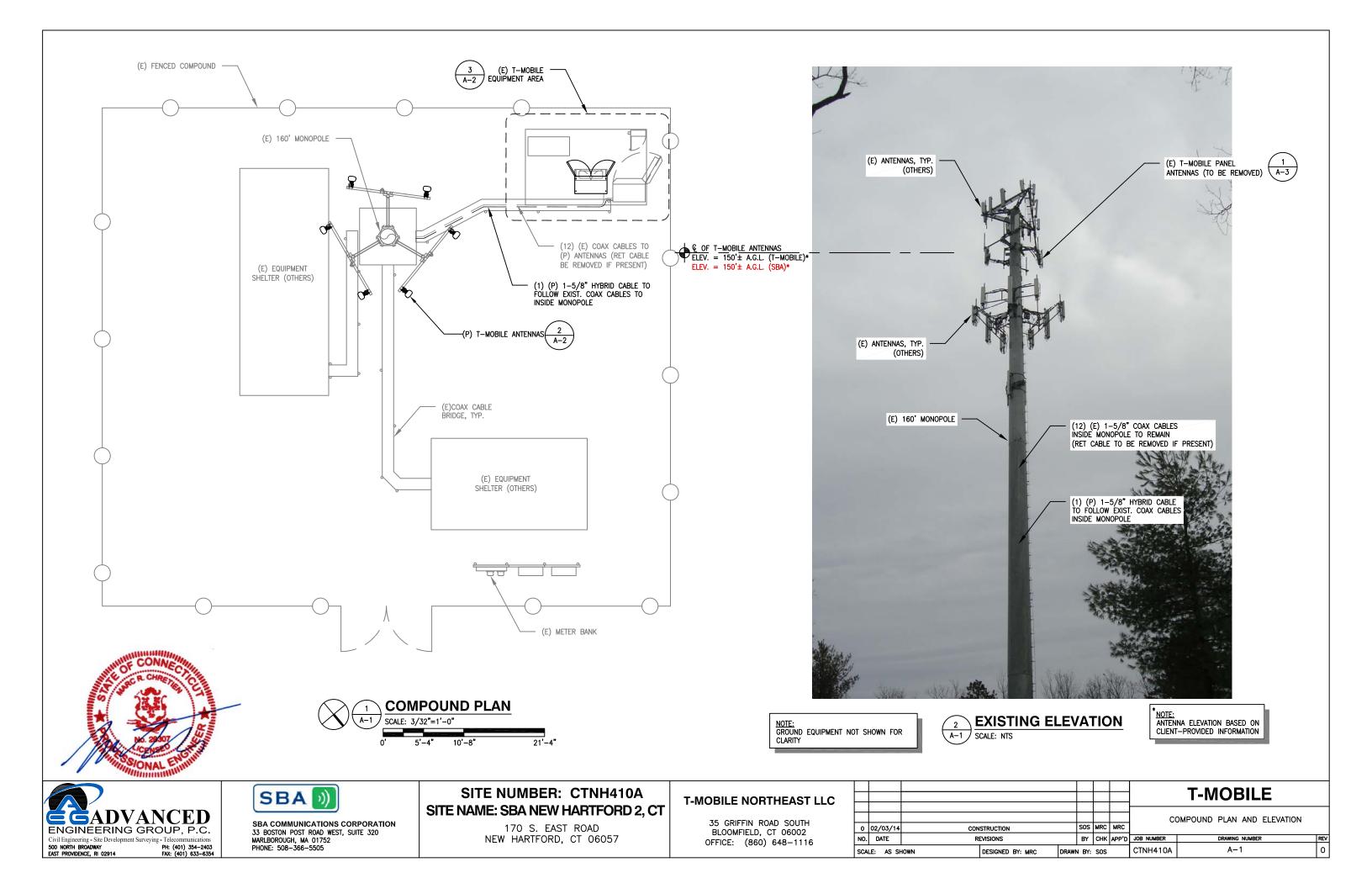
TOWER DESIGN NOTES

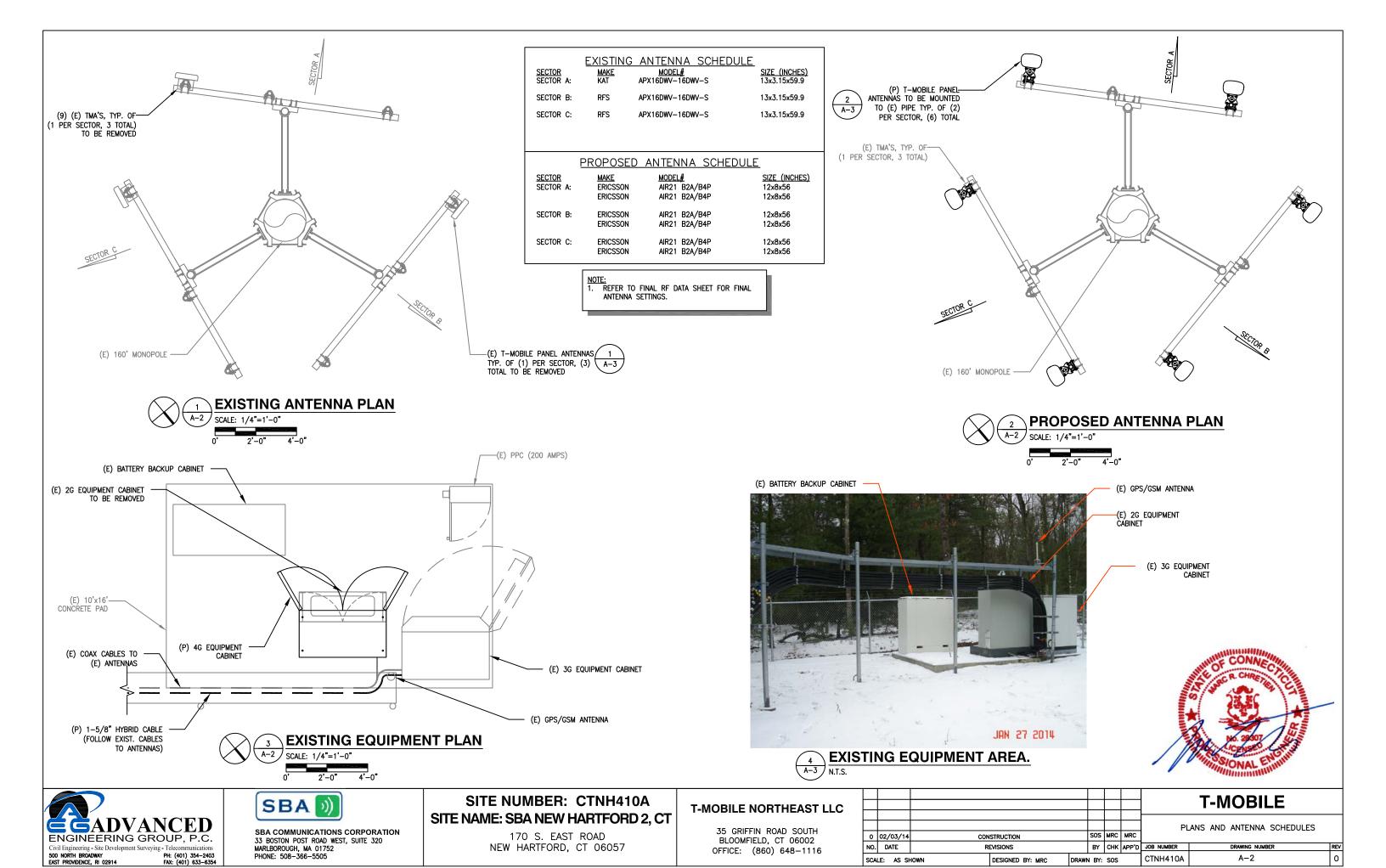
- Tower is located in Litchfield County, Connecticut.
 Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
 Tower is also designed for a 28 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
- 4. Deflections are based upon a 50 mph wind.
 5. TOWER RATING: 51.9%



FDH Engineerin 6521 Meridien D FDH Raleigh, NC 27 Phone: (919) 755-Tower Analysis

H Engineering, Inc.	Job: New Hartford 2, CT122	19-A-00	
JUZ I MICHAICH DIIVC	Project: 1422R71400		
Raleigh, NC 27616	Client: SBA Network Services, Inc.	Drawn by: Jarel Duncan	App'd:
Phone: (919) 755-1012	Code: TIA/EIA-222-F	Date: 02/18/14	Scale: NTS
	Path:	BATH 40007-48 Mikanaka kidaka kibaka 40 AT 4004 b. 4 asi	Dwg No. E-1

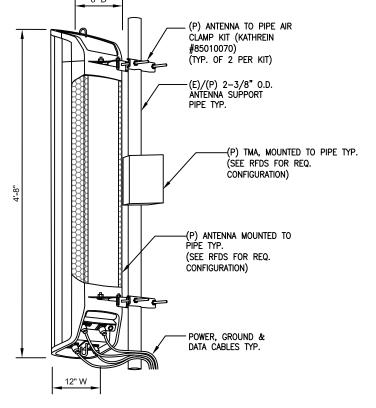




(E) ANTENNAS TYP. OF (1)-PER SECTOR, (3) TOTAL TO BE REMOVED

EXISTING ANTENNA MOUNT TYP.

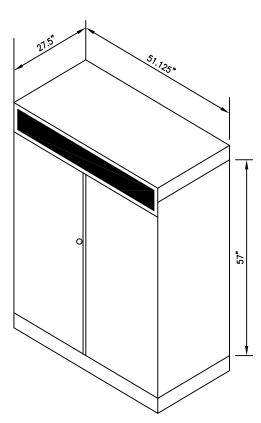
(P) ANTENNA TYP. OF (2) PER SECTOR, (6) TOTAL

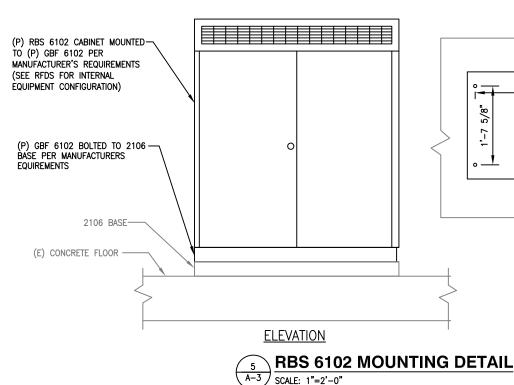


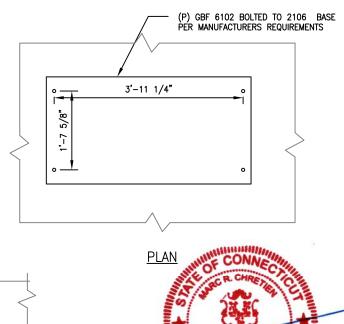
PROPOSED ANTENNA MOUNT TYP.

ANTENNA MOUNT TYP.

RBS 6102 OUTDOOR DIMENSIONS CABINET DEPTH x WIDTH x HEIGHT 27.5" x 51.125" x 57" OUTDOOR RBS 6102 **RBS 6102 OUTDOOR WEIGHT** CABINET APPROX. MAX WEIGHT MAX. FLOOR LOADING OUTDOOR RBS 6102 1028 LBS. **RBS 6102 MINIMUM CLEARANCE** MINIMUM CLEARANCE DIRECTION 8" CABINET REAR 4" CABINET SIDES ABOVE THE CABINET 20"







RBS 6102 CABINET SCALE: N.T.S.

28"





SBA COMMUNICATIONS CORPORATION 33 BOSTON POST ROAD WEST, SUITE 320 MARLBOROUGH, MA 01752 PHONE: 508-366-5505

170 S. EAST ROAD NEW HARTFORD, CT 06057

T-MOBILE NORTHEAST LLC

35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 OFFICE: (860) 648-1116

	C)' 6" 1'	2'							
				•					T-MOBILE	
_	02/03/14	CON	ISTRUCTION		sos	MRC	MRC	DETAILS		
NO.		REVISIONS		BY			JOB NUMBER	DRAWING NUMBER	REV	
SCALE: AS SHOWN DESIGNED BY: MRC DRAWI		N BY:	sos		CTNH410A	A-3	0			



IN FRONT OF THE CABINET

SITE NUMBER: CTNH410A SITE NAME: SBA NEW HARTFORD 2, CT