

QC Development
PO Box 916
Storrs, CT 06268
860-670-9068
QCDevelopment9068@gmail.com

January 29, 2015

Melanie A. Bachman Acting Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T) 171 Short Beach Road, Branford, CT 06405 N 41-15-46.04 W 72-50-03.94

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 120-foot level of the existing 120-foot Self Support Tower at 171 Short Beach Road, Branford, CT. The tower is owned by American Tower. The property is owned by 171 Short Beach Road Realty LLC. AT&T now intends to replace three (3) of its existing antennas with three (3) new CCI LTE 2300 MHz WCS band antennas. These antennas would be installed at the 120-foot level of the tower on a new low profile platform mount, to replace the existing T-Arms. AT&T also intends to install three (3) Ericsson LTE 2300 MHz WCS band remote radio units.

This facility was approved by the Connecticut Siting Council, Docket No. 427 on December 13, 2012. This approval included the condition that total facility height may not exceed 123 feet. AT&T's proposed antennas will be mounted at the 120-foot level, such that their tips do not exceed this maximum height. This modification therefore complies with the aforementioned approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to James B. Cosgrove, First Selectman for the Town of Branford, as well as the property owner and the tower

owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Please feel free to call me at (860) 670-9068 with any questions regarding this matter. Thank you for your consideration.

Sincerely,

Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: James B. Cosgrove - as elected official
American Tower - as tower owner (via e-mail)
171 Short Beach Road Realty LLC - as property owner

### **Power Density**

### **Existing Loading on Tower**

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm^2)	Freq. Band (MHz**)	Limit S (mW /cm^2)	%МРЕ
Other Carriers*							5.15%
AT&T LTE	1	500	120	0.0138	734	0.4893	0.28%
AT&T LTE	1	427	120	0.0118	1900	1.0000	0.12%
AT&T GSM	3	296	120	0.0246	880	0.5867	0.42%
AT&T UMTS	1	500	120	0.0138	1900	1.0000	0.14%
AT&T UMTS	1	500	120	0.0138	880	0.5867	0.24%
Site Total							6.34%

<sup>\*</sup>Per CSC Records (available upon request, includes calculation formulas)

### **Proposed Loading on Tower**

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm^2)	Freq. Band (MHz**)	Limit S (mW /cm^2)	%МРЕ
Other Carriers*							5.15%
AT&T LTE	2	1791	120	0.0510	2300	1.0000	0.99%
AT&T LTE	2	1104	120	0.0314	734	0.4893	1.25%
AT&T LTE	2	2203	120	0.0627	1900	1.0000	1.22%
AT&T GSM	2	492	120	0.0140	880	0.5867	0.46%
AT&T UMTS	2	419	120	0.0119	880	0.5867	0.40%
AT&T UMTS	2	817	120	0.0232	1900	1.0000	0.45%
Site Total							9.92%

<sup>\*</sup>Per CSC Records (available upon request, includes calculation formulas)

Note: Proposed Loading may also include corrections to certain Existing Loading values

<sup>\*\*</sup> If a range of frequencies are used, such as 880-894, enter the lowest value, i.e. 880

<sup>\*\*</sup> If a range of frequencies are used, such as 880-894, enter the lowest value, i.e. 880

#### PROJECT INFORMATION

SCOPE OF WORK: TELECOMMUNICATIONS FACILITY UPGRADE (LTE-3C 2016):

TOWER OWNER: AMERICAN TOWER CORP.

116 HUNTINGTON AVE, 11TH FLOOR

BOSTON MA, 02116 171 SHORT BEACH ROAD

SITE ADDRESS: BRANFORD, CT 06405

LATITUDE: LONGITUDE: TYPE OF SITE: MONOPOLE / EQUIPMENT SHELTER

OVERALL TOWER HEIGHT: RAD CENTER:



## **SITE NUMBER: CT1283** SITE NAME: BRANFORD SHORT BEACH ROAD PROJECT: LTE 3C 2016 UPGRADE

	DRAWING INDEX	REV
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND PLAN	1
A-2	ANTENNA LAYOUTS & ELEVATION	1
A-3	DETAILS	1
RF-1	RF PLUMBING DIAGRAM	1
G-1	GROUNDING DETAILS	1

START OUT GOING WEST ON SR 30/COCHITUATE RD TOWARD BURR ST. 0.0 MILES. TURN LEFT ONTO BURR ST. 0.0 MILES. TURN LEFT ONTO SR 30/COCHITUATE RD. 0.0 MILES. MERGE ONTO I-90 W/MASSACHUSETTS TPKE (PORTIONS TOLL). 38.9 MILES. MERGE ONTO I-84 W VIA EXIT 9 TOWARD STURBRIDGE/HARTFORD/TO US 20 (PORTIONS TOLL) (CROSSING INTO CONNECTICUT). 41.5 MILES. TAKE CT-15 S. 2.0 MILES. MERGE ONTO I-91 S VIA EXIT 86 TOWARD NEW HAVEN/NEW YORK CITY. 36.4 MILES. MERGE ONTO I-95 N VIA THE EXIT ON THE LEFT. 4.5 MILES. TAKE EXIT 53 TOWARD SHORT BEACH. 1.1 MILES. TURN SHARP RIGHT ONTO US-1/W MAIN ST. 0.1 MILES. TURN LEFT ONTO 142/SHORT BEACH RD. 1.0 MILES. SITE WILL BE ON THE LEFT

**VICINITY MAP** 



THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

**GENERAL NOTES** 

- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

AMERICAN TOWER SITE NAME: SHORT BEACH BRANFORD

**AMERICAN TOWER SITE NUMBER: 283422** 



72 HOURS

BEFORE YOU DIG



CALL TOLL FREE 888-DIG-SAFE OR DIAL 811

## UNDERGROUND SERVICE ALERT



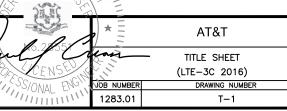


**SITE NUMBER: CT1283** SITE NAME: BRANFORD SHORT BEACH ROAD ATC#283422

> 171 SHORT BEACH ROAD BRANFORD, CT 06405 NEW HAVEN COUNTY



						$\Gamma$
						$\sum$
1	01/19/16	ISSUED FOR	REVIEW		RB	ſΞ
Α	11/11/15	ISSUED FOR	REVIEW		SG	Ξ
NO.	DATE		REVISIONS		BY	CH
SCA	LE: AS SI	HOWN	DESIGNED BY: AT	DRAW	N BY:	S



#### **GROUNDING NOTES**

- 1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE—SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- 2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- 3. THE SUBCONTRACTOR SHALL PERFORM IEEE
  FALL—OF—POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE
  1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE
  SUBCONTRACTOR SHALL FURNISH AND INSTALL
  SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO
  ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- 5. EACH BTS CABINET FRAME SHALL BE DIRECTLY
  CONNECTED TO THE MASTER GROUND BAR WITH GREEN
  INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6
  AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG
  STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 11. METAL CONDUIT SHALL BE MADE ELECTRICALLY
  CONTINUOUS WITH LISTED BONDING FITTINGS OR BY
  BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER
  WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE 1/2" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID TINNED COPPER GROUND WIRE, PER NEC 250.50

### **GENERAL NOTES**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR - SAI
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T MOBILITY

- 2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPOPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION
- 12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- 13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- 14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR—ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

- 15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- 16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
- 17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- 19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- 20. APPLICABLE BUILDING CODES:
  SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL,
  STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING
  JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED
  CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD
  SHALL GOVERN THE DESIGN.
  BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT & 2009
- 2013 CT AMENDMENTS

  ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS

  LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOIL OWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, 14TH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

#### **ABBREVIATIONS** ABOVE GRADE LEVEL G.C. GENERAL CONTRACTOR RF RADIO FREQUENCY AWG AMERICAN WIRE GAUGE MGB MASTER GROUND BUS TO BE DETERMINED **BCW** BARE COPPER WIRE MIN MINIMUM TBD BTS PROPOSED//NEW BASE TRANSCEIVER STATION TO BE REMOVED TO BE REMOVED EXISTING EXISTING N.T.S. NOT TO SCALE TBRR AND REPLACED EG EQUIPMENT GROUND REF J. CP REFERENCE TYPICAL TYP FOLIPMENT GROUND RING / REO

Hudson Design Groupuc 1400 OSGOOD STREET BUILDING 20 NOR1H, SUITE 3090 N. ANDOVER, MA 01845 FAX: (978) 336-5586



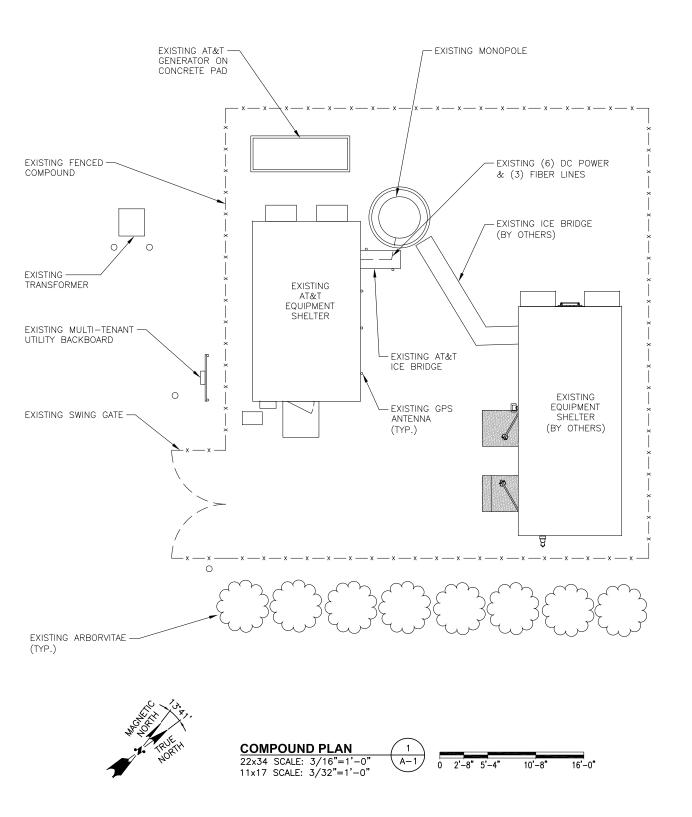
## SITE NUMBER:CT1283 SITE NAME: BRANFORD SHORT BEACH ROAD ATC#283422

171 SHORT BEACH ROAD BRANFORD, CT 06405 NEW HAVEN COUNTY



FRAMINGHAM, MA 01701

			EGN EQUITMEN	ii Gito	OIVL	7 12[	NO	STATE TO A STATE OF THE STATE O	REV	JOINED		
					(	4	*			* =	AT&T	·
1	01/19/16	ISSUED FOR	PE//IFW		В	$\stackrel{\textstyle{\scriptstyle \angle}}{\Leftrightarrow}$	A	well to	Ž	ensi	GENERAL NOTES	
	· ·	ISSUED FOR			_		DG.	ON CENSE			(LTE-3C 2016)	
NO.	DATE		REVISIONS	В	Y (	снк д	PP'D	ISSSIONAL EN	2//	JOB NUMBER	DRAWING NUMBER	REV
SCA	LE: AS SH	HOWN	DESIGNED BY: AT	DRAWN E	BY:	SG		MIIIIIII	11,	1283.01	GN-1	1



NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:

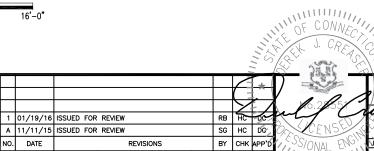
AN ANALYSIS FOR THE CAPACITY
OF THE EXISTING STRUCTURES
TO SUPPORT THE PROPOSED
EQUIPMENT SHALL BE DETERMINED
PRIOR TO CONSTRUCTION.

NOTE:

ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER CORP. AND FINAL AT&T RF DATA SHEET.

FIF RACK NOTE:

DUL TO DUS UPGRADE, ADD SECOND DUS.



DRAWN BY: SG

DESIGNED BY: AT

SCALE: AS SHOWN

AT&T

COMPOUND PLAN (LTE-3C 2016)

1283.01

27 NORTHWESTERN DR.

SALEM, NH 03079

Hudson

1600 OSGOOD STREET

BUILDING 20 NORTH, SUITE 3090 N. ANDOVER, MA 01845

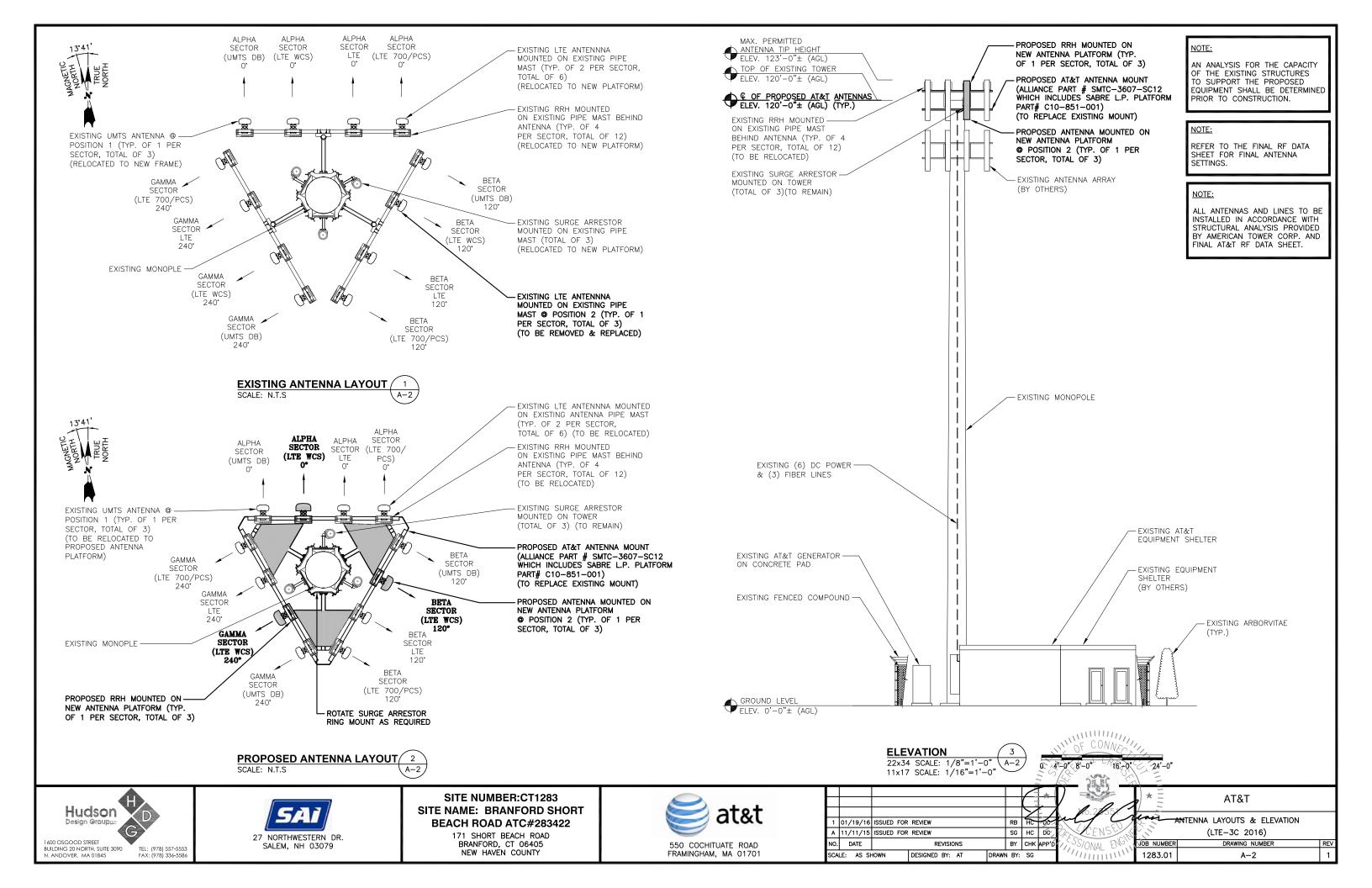
**SITE NUMBER:CT1283** SITE NAME: BRANFORD SHORT BEACH ROAD ATC#283422

> 171 SHORT BEACH ROAD BRANFORD, CT 06405

at&t

550 COCHITUATE ROAD FRAMINGHAM, MA 01701

NEW HAVEN COUNTY



#### NOTE:

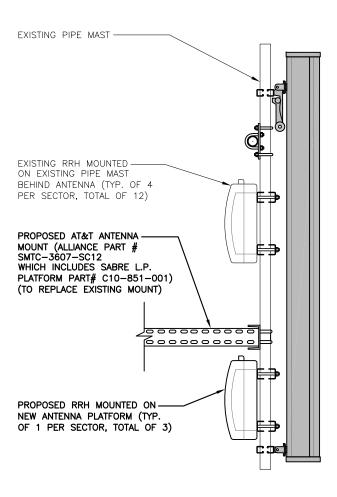
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

#### NOTE:

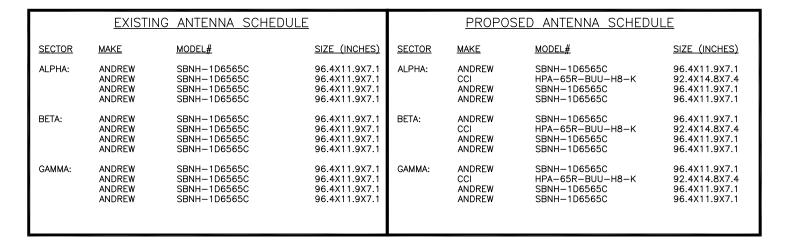
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

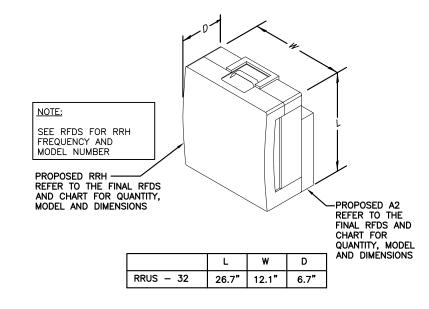
#### NOTE:

ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER CORP. AND FINAL AT&T RF DATA SHEET.



PROPOSED LTE ANTENNA
AND RRU MOUNTING DETAIL
SCALE: N.T.S





NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

> RRH DETAIL 2 SCALE: N.T.S A-



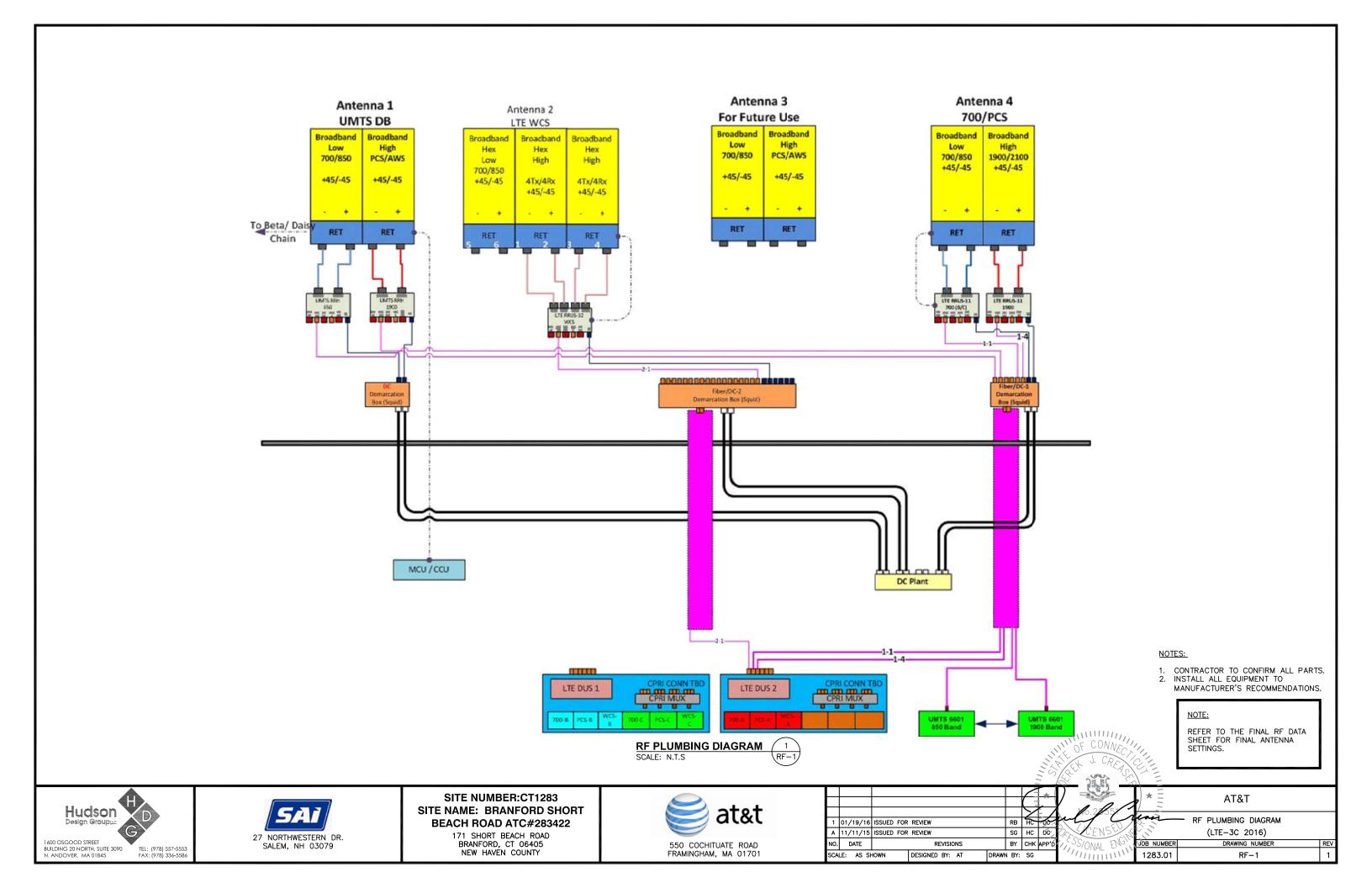


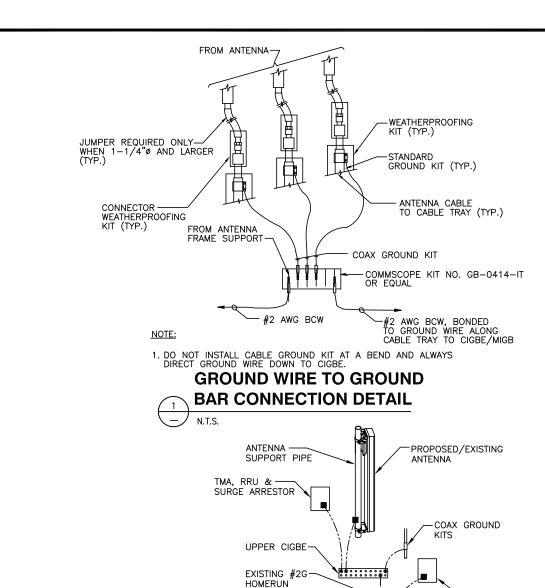
# SITE NUMBER:CT1283 SITE NAME: BRANFORD SHORT BEACH ROAD ATC#283422

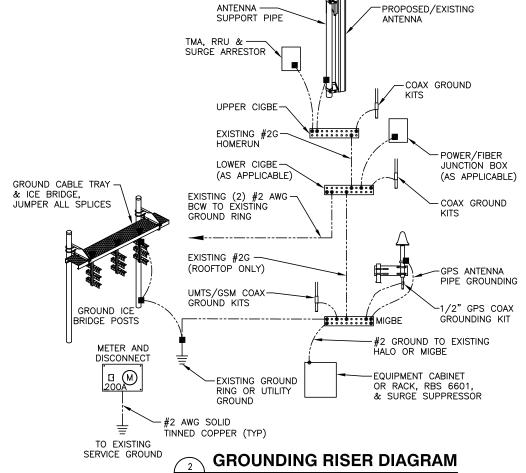
171 SHORT BEACH ROAD BRANFORD, CT 06405 NEW HAVEN COUNTY

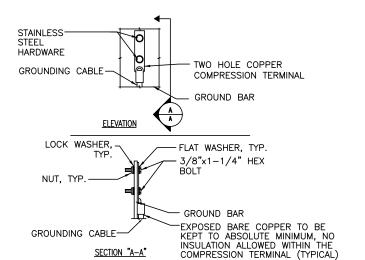


								- //, UIV/\L \\	1283.01	A-3	
NO	. DATE		REVISIONS		BY	СНК	APP'D	SS/ONAL ENG!	JOB NUMBER	DRAWING NUMBER	REV
Α	11/11/15	ISSUED FOR	REVIEW		SG	нс	DO.	ON CENSY		(LTE-3C 2016)	
1	01/19/16	ISSUED FOR	REVIEW		RB	HC.	-0C	ulf C	for -	DETAILS	
$\vdash$						M		1.285/	<del>/</del>		
$\vdash$							*		<b>★</b> =	AT&T	
_		i					35				
								J. CREA	6/1		
							. \	" OF CONNEC!	11,		
			JALE. N.I.3	(A-3)				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			









1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.

## **TYPICAL GROUND BAR CONNECTION DETAIL**

N.T.S.

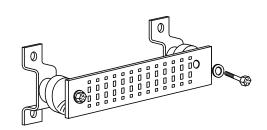
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

#### SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2) GENERATOR FRAMEWORK (IF AVAILABLE) (#2) TELCO GROUND BAR COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2) +24V POWER SUPPLY RETURN BAR (#2) -48V POWER SUPPLY RETURN BAR (#2) RECTIFIER FRAMES.

#### SECTION "A" - SURGE ABSORBERS

INTERIOR GROUND RING (#2) EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2) METALLIC COLD WATER PIPE (IF AVAILABLE) (#2) BUILDING STEEL (IF AVAILABLE) (#2)







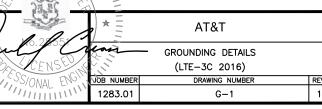


#### SITE NUMBER: CT1283 SITE NAME: BRANFORD SHORT BEACH ROAD ATC#283422

171 SHORT BEACH ROAD BRANFORD, CT 06405 NEW HAVEN COUNTY



									-		10,	
									/	*	)	=
1									( =	. \	V	_
1									$\geq$	E	<b>l</b>	
	1	01/19/16	ISSUED FO	R REVIEW				RB	₽	200	M	7
	Α	11/11/15	ISSUED FO	R REVIEW				SG	нс	DC	0/2	L
	NO.	DATE			REVISION	ONS		BY	снк	APP'D	1,55	S/C
	SCA	LE: AS SI	HOWN	DESIGNE	BY:	AT	DRAW	N BY:	SG		1///	11



OF CONNE



Structural Evaluation								
ATC Site Number & Name	283422, Short Beach Branford CT, CT							
Carrier Site Number & Name	CT1283/FA#10133913, BRANFORD - SHORT BEACH							
Site Location	171 Short Beach Road							
	Branford, CT 06405-4930, New Haven County							
	41.262789 N / -72.834428 W							
Tower Description	119 ft Monopole							
Basic Wind Speed	110 mph (3-Second Gust)							
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ ¾" ice							
Code	ANSI/TIA-222-G / 2003 IBC / 2005 Connecticut Supplement & 2009 Connecticut							
	Amendment							

### **Existing and Reserved Equipment**

	zwown8 and neoc. Year zalarhinent										
Elevation	on¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier					
Mount	RAD	Qty	Antenna	iviount type	Lines	Carrier					
	120.0	3	Raycap DC6-48-60-18-8F		(C) 0 C2" Cable						
118.0	120.0	12	Ericsson RRUS 11 (Band 12)	Low Profile Platform	(6) 0.63" Cable (3) 0.40" Fiber	AT&T Mobility					
	118.0	9	Andrew SBNH-1D6565C		(3) 0.40 Fiber						
		2	RFS DB-T1-6Z-8AB-0Z	-							
	102.0	3	Antel BXA-70063-6CF-EDIN-X								
	102.0	6	Commscope SBNHH-1D65B		/12) 1 F /0" Coox						
100.0		3	Andrew LNX-6514DS-A1M	Low Profile Platform	(12) 1 5/8" Coax (2) 1 5/8" Hybriflex	Verizon					
		3	Alcatel-Lucent RRH2X60-AWS	Low Profile Platform	(2) 13/6 Hybrillex						
	100.0	3	Alcatel-Lucent RRH2x60 700								
		3	Alcatel-Lucent PCS B25 RRH2x60/4x30								

#### **Equipment to be Removed**

Elevatio	evation¹ (ft)		Antonno	Mount Tuno	Lines	Carrier	
Mount	RAD	Qty	Antenna	Antenna Mount Type			
120.0	120.0	3	Andrew SBNH-1D6565C			ATO T Mability	
120.0	120.0	3	Ericsson RRUS 11	-	-	AT&T Mobility	



#### **Proposed Equipment**

Elevation	on¹ (ft)	Ot (	Antonno	Mount Tune	Lines	Corrior	
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier	
110.0	120.0	3	Ericsson RRUS 32 B30	Low Profile Platform		ATOT Mobility	
118.0	118.0	3	CCI HPA-65R-BUU-H8	LOW Profile Platform	-	AT&T Mobility	

<sup>&</sup>lt;sup>1</sup> Mount elevation is defined as height above bottom of steel structure to bottom of mount, RAD elevation is defined as center of antenna above grade level (AGL).

The existing and proposed loads listed in the tables above are compared to the tower's current design capacity or previous structural analysis. The tower should be re-evaluated as future loads are added or if actual loads are found different from those listed in the tables. The subject tower and foundation *are adequate* to support the above stated loads in conformance with specified requirements.

Reviewed by: William Garrett, PE Chief Engineer



Dec 24 2015 1:33 PM

ASP/KMV