



QC Development

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August 12, 2016

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) – CT2339
Southbury Road, Roxbury, CT 06783
N 41-30-53.83
W 73-15-46.12

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 166-foot level of the existing 170-foot Monopole off Route 67 (Southbury Road), Roxbury, CT. The tower is owned by American Tower and the property is owned by C N Builders Inc. AT&T now intends to remove nine (9) of its existing antennas and install nine (9) new CCI antennas and three (3) Ericsson RRUS-32-B2 Radio Heads with A2 Modules.

This facility was approved by the Council in Docket # 428 on March 21, 2013. The Decision and Order included the condition that the monopole could not exceed 170' in height and that the top of AT&T's antennas could not exceed 170' above ground level. AT&T's existing antennas are installed with their centerlines at 166' AGL in conformance with this Condition and the new proposed antennas will also conform as illustrated in the enclosed drawings. 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 Barbara

Henry, First Selectman of the Town of Roxbury, as well as the tower and property owners.

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,

A handwritten signature in black ink, appearing to read 'MR', with a large, stylized flourish extending from the end.

Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: Barbara Henry - as elected official
American Tower - as tower owner (via e-mail)
C N Builders Inc – 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)	%MPE
Other Carriers*							0.00%
AT&T GSM	3	296	166	0.0125	880	0.5867	0.21%
AT&T UMTS	1	500	166	0.0070	850	0.5667	0.12%
AT&T UMTS	1	427	166	0.0060	1900	1.0000	0.06%
AT&T LTE	1	500	166	0.0070	700	0.4667	0.15%
AT&T LTE	1	500	166	0.0070	1900	1.0000	0.07%
Site Total							0.62%

*Per CSC Records (available upon request, includes calculation formulas)

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

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)	%MPE
Other Carriers*							0.00%
AT&T UMTS	1	500	166	0.0070	850	0.5667	0.12%
AT&T UMTS	1	427	166	0.0060	1900	1.0000	0.06%
AT&T LTE	1	500	166	0.0070	700	0.4667	0.15%
AT&T LTE	2	500	166	0.0140	1900	1.0000	0.14%
Site Total							0.47%

*Per CSC Records (available upon request, includes calculation formulas)

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

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

PROJECT INFORMATION

SCOPE OF WORK: TELECOMMUNICATIONS FACILITY UPGRADE (LTE 2C 2016 UPGRADE):

SITE ADDRESS: SOUTHBURY ROAD
ROXBURY, CT 06783

LATITUDE: 41.514952° N 41° 30' 53.83" N

LONGITUDE: 73.262825° W 73° 15' 46.17" W

TYPE OF SITE: MONOPOLE TOWER / INDOOR EQUIPMENT

TOWER HEIGHT: 170' ±

RAD CENTER: 166' ±

JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY

NOC# 800-638-2822



SITE NUMBER: CT2339

SITE NAME: ROXBURY SOUTHBURY ROAD

PROJECT: LTE 2C 2016 UPGRADE

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLANS	1
A-2	ANTENNA LAYOUTS & ELEVATION	1
A-3	DETAILS	1
RF-1	RF-PLUMBING DIAGRAM	1
G-1	GROUNDING DETAILS	1

VICINITY MAP

DIRECTIONS TO SITE:

START OUT GOING NORTHEAST ON ENTERPRISE DR TOWARD CAPITOL BLVD. 0.4 MI. TURN LEFT ONTO CAPITOL BLVD. TURN LEFT TO MERGE ONTO I-91 S, FOLLOW I-91 S, I-691 W AND I-84 TO CT-67 N/US-6 E IN SOUTHBURY. TAKE EXIT 15 FROM I-84. TAKE EXIT 18 FOR I-691 W TOWARD MERIDEN/WATERBURY 0.2 MI CONTINUE ONTO I-691 W 7.7 MI USE THE LEFT 2 LANES TO TAKE EXIT 1 FOR I-84 W TOWARD WATERBURY/DANBURY 1.0 MI MERGE ONTO I-84. TAKE EXIT 15 FOR US-6 E/CT-67 TOWARD SOUTHBURY. TURN RIGHT ONTO CT-67 N/US-6 E 1.5 MI. TURN LEFT ONTO CT-67 W 2.4 MI. TURN LEFT ONTO BRONSON MOUNTAIN RD. ARRIVE AT SITE 41 BRONSON MOUNTAIN RD.



GENERAL NOTES

1. 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.
2. 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.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

ATC SITE NUMBER: 280501
ATC SITE NAME: ROXBURY CT

72 HOURS



CALL BEFORE YOU DIG
CALL TOLL FREE 1-888-DIG-SAFE
OR CALL 811



UNDERGROUND SERVICE ALERT

Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SAI
27 NORTHWESTERN DR.
SALEM, NH 03079

SITE NUMBER: CT2339
SITE NAME: ROXBURY SOUTHBURY ROAD
ATC SITE NUMBER: 280501
SOUTHBURY ROAD
ROXBURY, CT 06783
LITCHFIELD COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	06/30/16	ISSUED FOR CONSTRUCTION	RB	AT	DPH
A	06/15/16	ISSUED FOR REVIEW	EB	AT	DPH

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: EB

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
No. 2955
[Signature]

AT&T
TITLE SHEET (LTE 2C)
SITE NUMBER: 2339.00
DRAWING NUMBER: T-1
REV: 1

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.
6. 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 GROUND BAR.
9. 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 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE 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 APPROPRIATE 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 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 FOLLOWING STANDARDS:

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

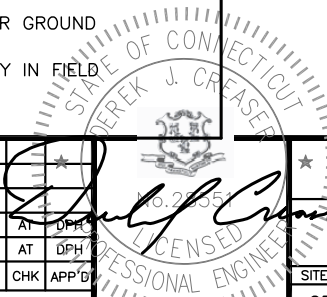
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

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

EQUIPMENT 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					
AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		



Hudson Design Group LLC
 1600 OSGOOD STREET
 BUILDING 20 NORTH, SUITE 3090
 N. ANDOVER, MA 01845
 TEL: (978) 557-5553
 FAX: (978) 336-5586

SAI
 27 NORTHWESTERN DR.
 SALEM, NH 03079

SITE NUMBER: CT2339
SITE NAME: ROXBURY SOUTHBURY ROAD
ATC SITE NUMBER: 280501
 SOUTHBURY ROAD
 ROXBURY, CT 06783
 LITCHFIELD COUNTY

at&t
 500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

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SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: EB		

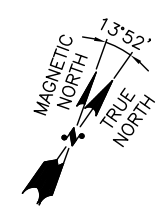
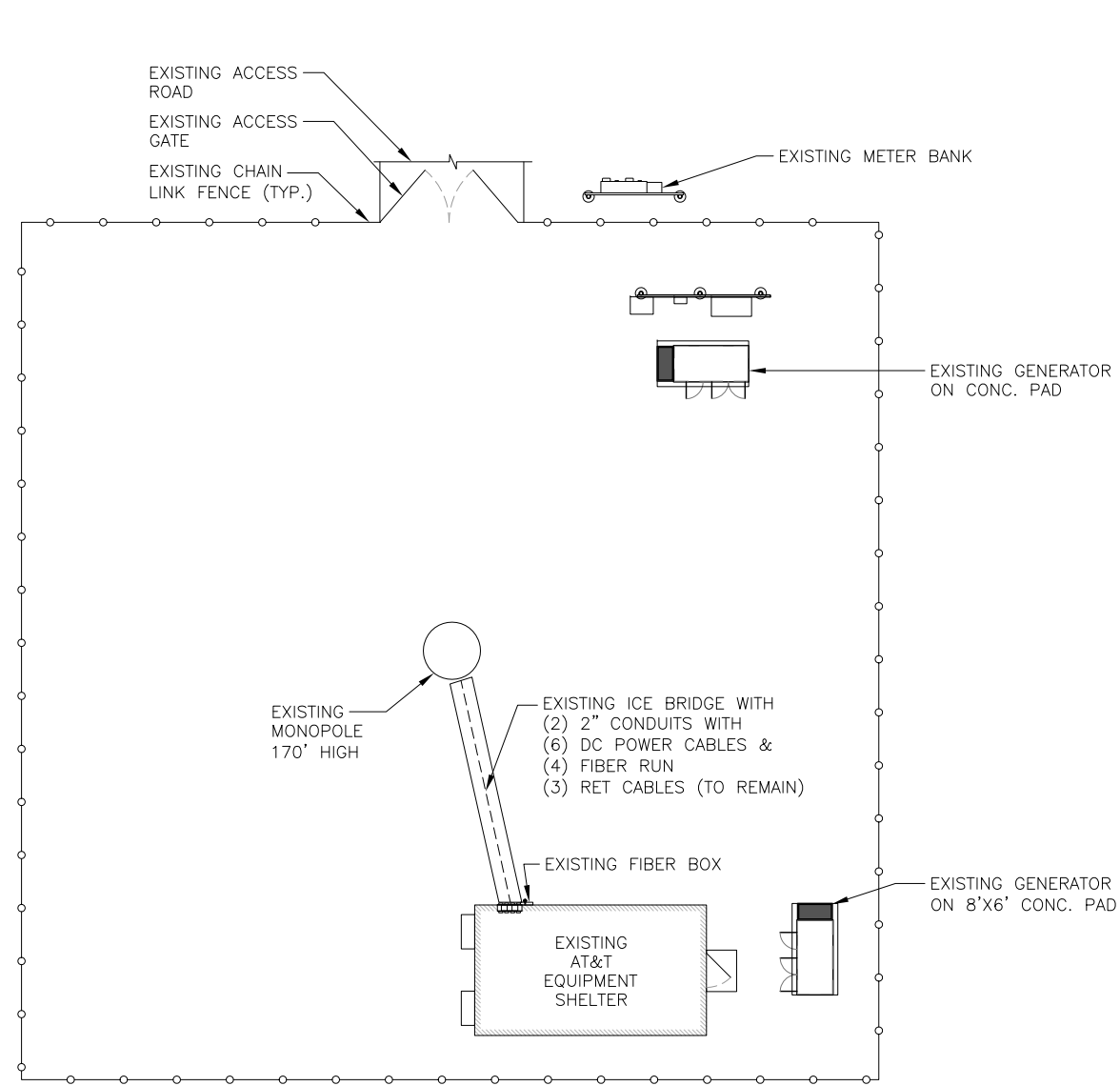
AT&T
GENERAL NOTES
 (LTE 2C)

SITE NUMBER	DRAWING NUMBER	REV
2339.00	GN-1	1

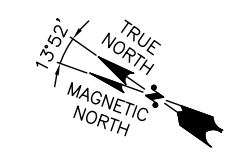
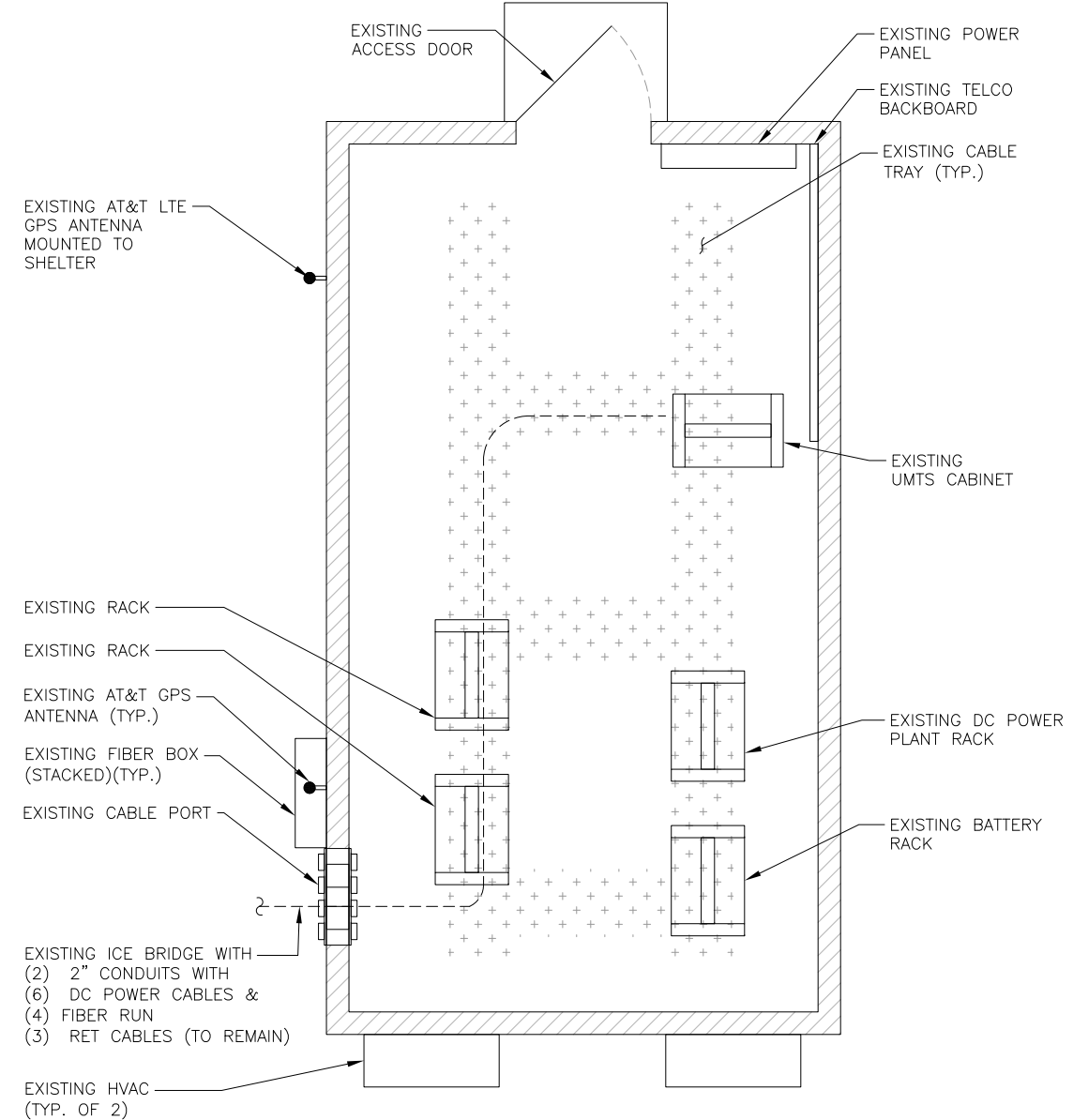
NOTE:
 AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY:
 HUDSON DESIGN GROUP, LLC.
 DATED: JUNE 20, 2016

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

NOTE:
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA CONFIGURATION.



COMPOUND PLAN
 22x34 SCALE: 1/8"=1'-0"
 11x17 SCALE: 1/16"=1'-0"
 1
 A-1



EQUIPMENT PLAN
 22x34 SCALE: 1/2"=1'-0"
 11x17 SCALE: 1/4"=1'-0"
 2
 A-1

Hudson Design Group LLC
 1600 OSGOOD STREET
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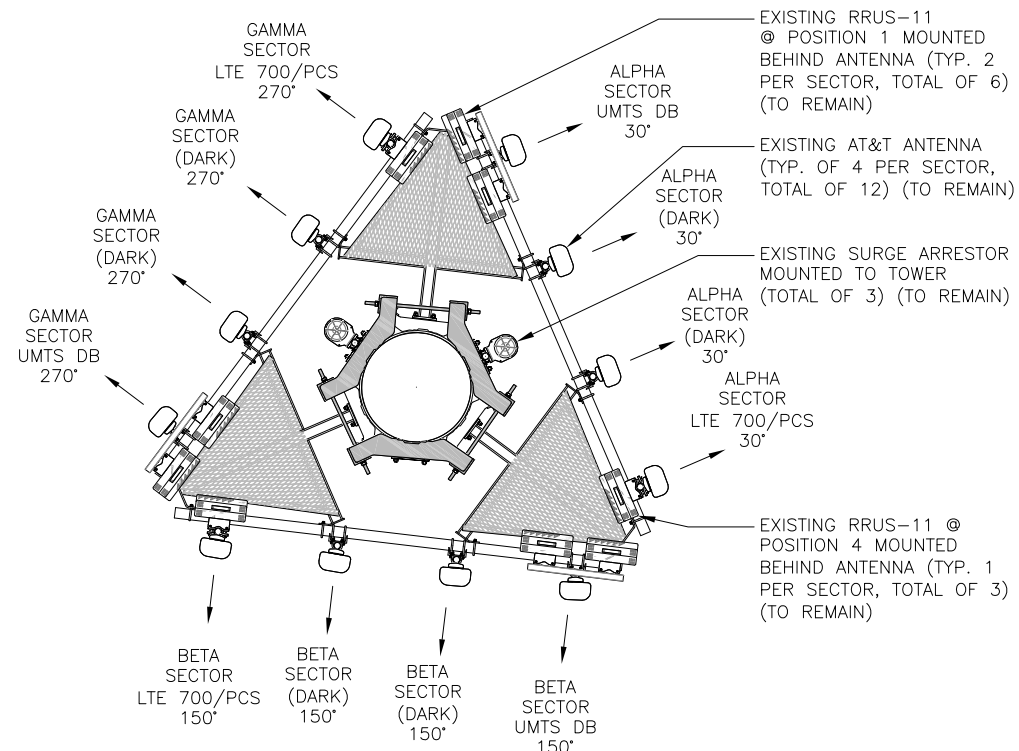
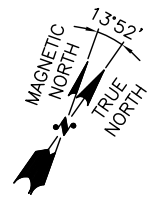
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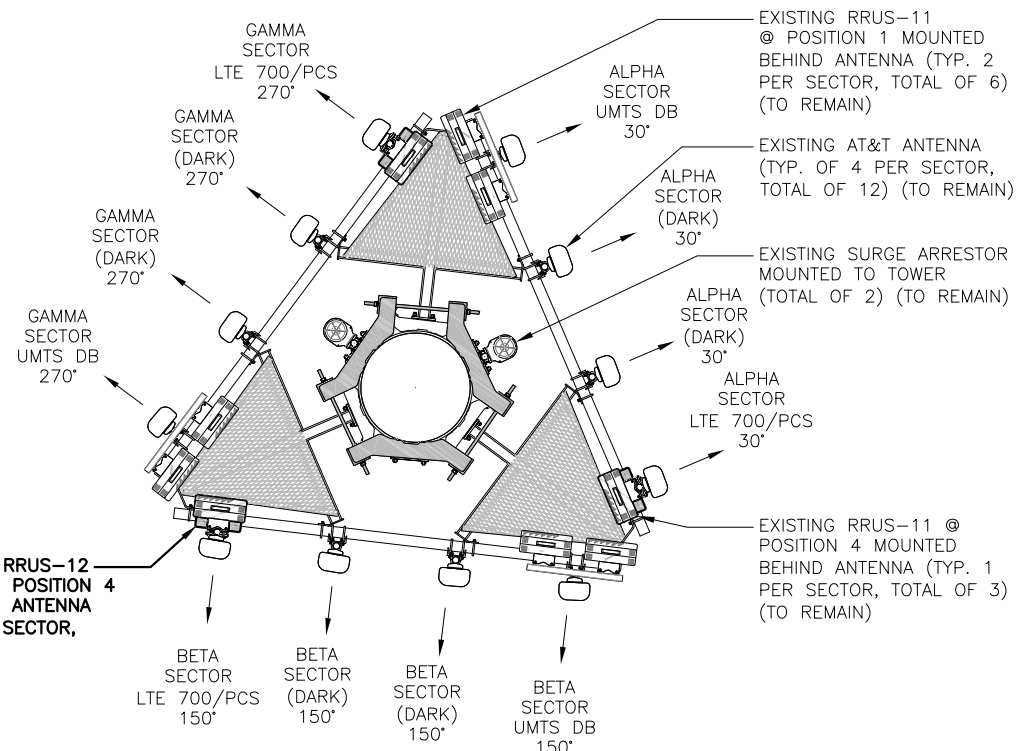
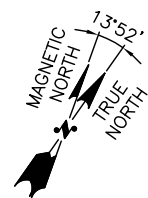
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AT&T
COMPOUND & EQUIPMENT PLANS
 (LTE 2C)
 STATE OF CONNECTICUT
 DEREK J. CREASER
 LICENSED PROFESSIONAL ENGINEER
 No. 2955

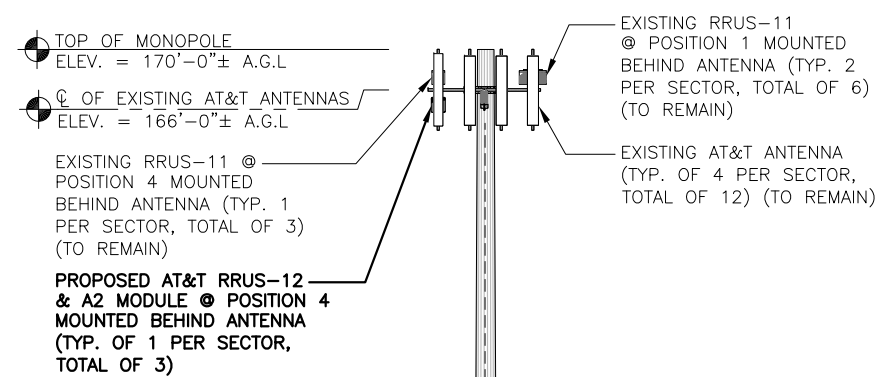
SITE NUMBER	DRAWING NUMBER	REV
2339.00	A-1	1



EXISTING ANTENNA PLAN
SCALE: N.T.S. 1 A-2



PROPOSED ANTENNA PLAN
SCALE: N.T.S. 2 A-2



EXISTING MONOPOLE
170' HIGH

EXISTING ICE BRIDGE WITH
(2) 2" CONDUITS WITH
(6) DC POWER CABLES &
(4) FIBER RUN
(3) RET CABLES (TO REMAIN)

GROUND LEVEL
ELEV. = 0'-0"± A.G.L.

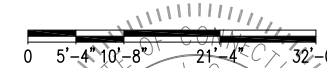
ELEVATION
22x34 SCALE: 3/32"=1'-0"
11x17 SCALE: 3/64"=1'-0" 3 A-2



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

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA CONFIGURATION.

NOTE:
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A	06/15/16	ISSUED FOR REVIEW	EB	AT	DPH

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: EB

AT&T
ANTENNA LAYOUTS & ELEVATION
(LTE 2C)

SITE NUMBER	DRAWING NUMBER	REV
2339.00	A-2	1

EXISTING ANTENNA SCHEDULE

SECTOR	MAKE	MODEL#	SIZE (INCHES)
ALPHA:	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
BETA:	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
GAMMA:	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4
	CCI	HPA-65R-BUU-H8	92.4X14.8X7.4

NOTE:

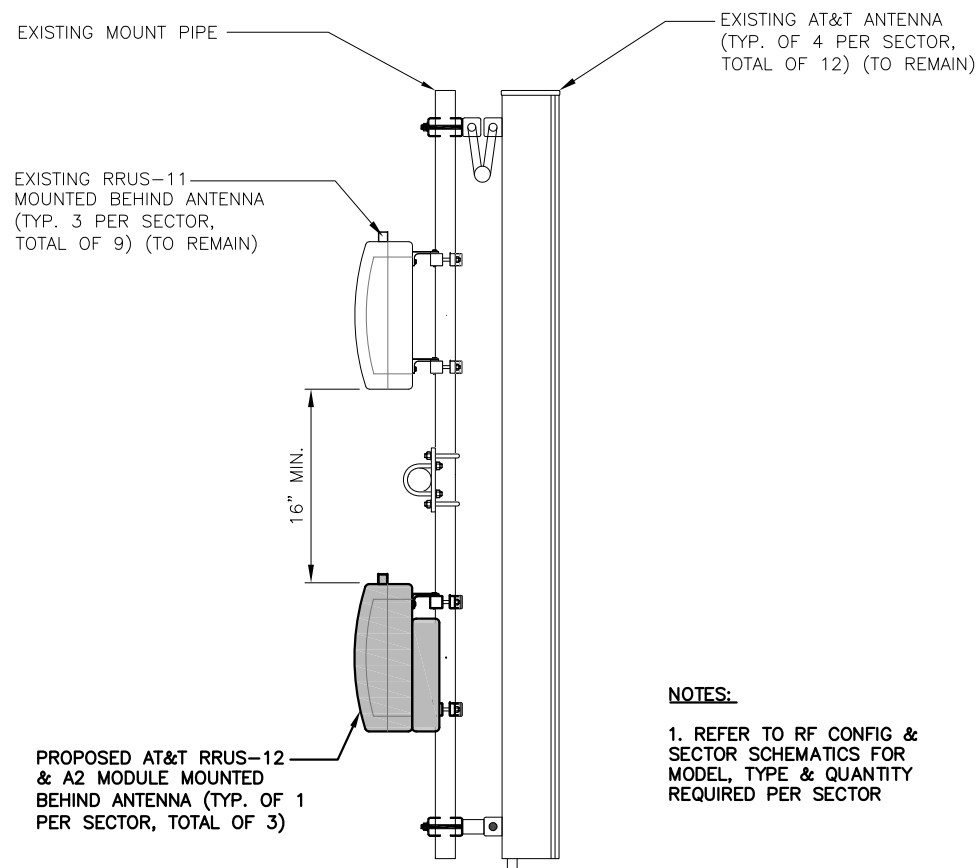
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER AND FINAL AT&T RF DATA SHEET.

NOTE:

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

NOTE:

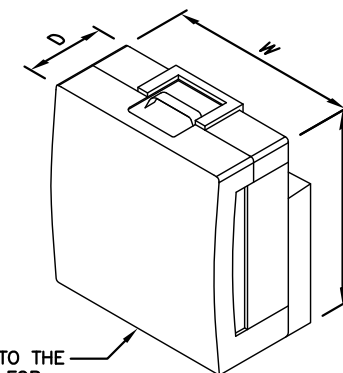
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: JUNE 20, 2016



NOTES:
1. REFER TO RF CONFIG & SECTOR SCHEMATICS FOR MODEL, TYPE & QUANTITY REQUIRED PER SECTOR

RRU CHART				
QUANTITY	MODEL	L	W	D
9 (E)	RRUS-11	19.7"	17.0"	7.2"
3 (P) 3(F)	RRUS-12	20.4"	18.5"	7.5"
-	RRUS-32	27.2"	12.1"	7.0"
-	RRUS-E2	20.4"	18.5"	7.5"
3 (P)	LTE-A2	16.4"	15.2"	3.4"

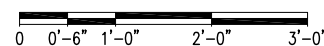
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS



PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

PROPOSED RRU MOUNTING DETAIL

22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"



RRU DETAIL

SCALE: N.T.S

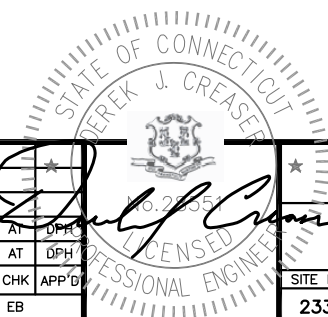


SITE NUMBER: CT2339
SITE NAME: ROXBURY SOUTHBURY ROAD
ATC SITE NUMBER: 280501
SOUTHBURY ROAD
ROXBURY, CT 06783
LITCHFIELD COUNTY



NO.	DATE	REVISIONS	BY	CHK	APP'D
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SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: EB

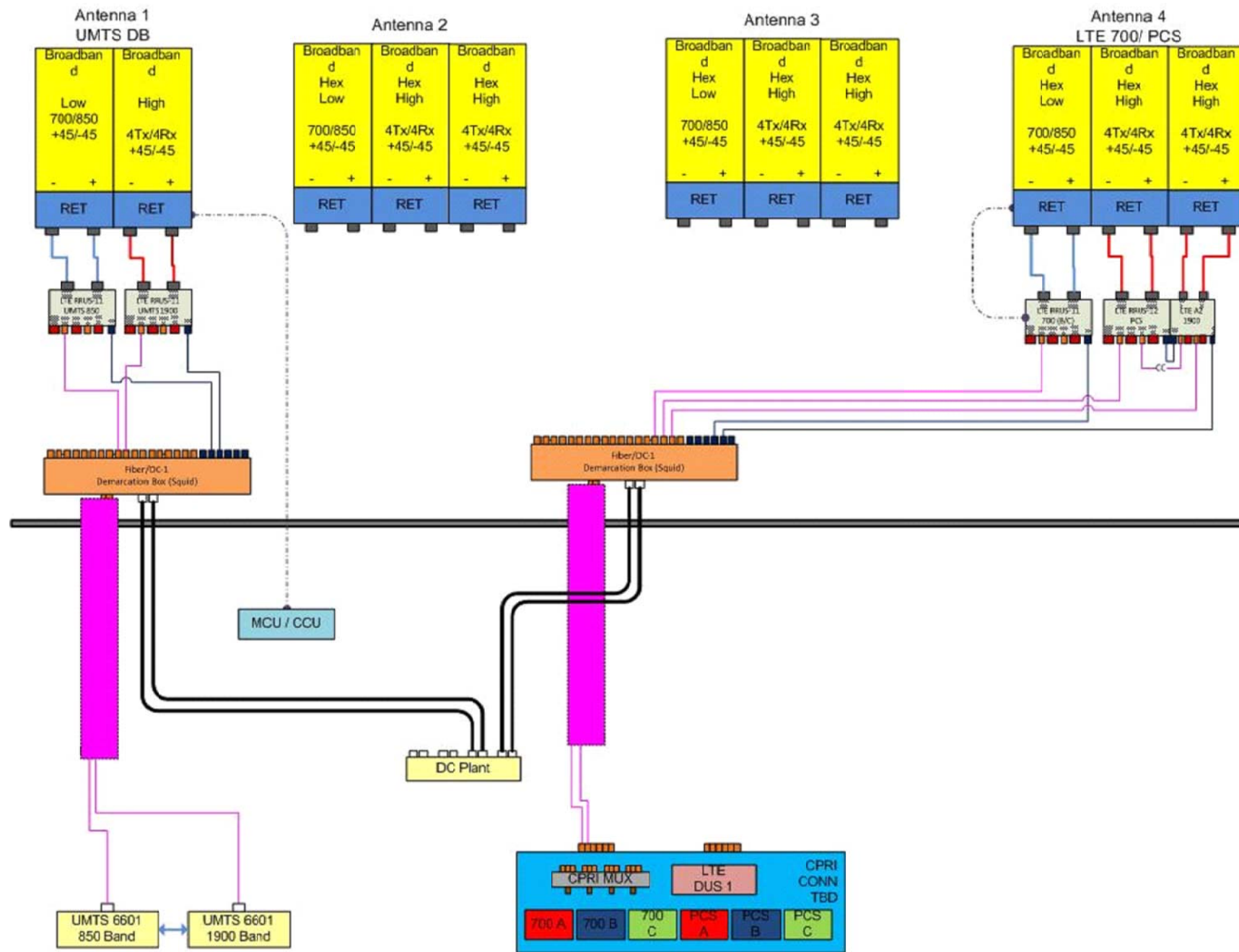


AT&T

DETAILS
(LTE 2C)

SITE NUMBER	DRAWING NUMBER	REV
2339.00	A-3	1

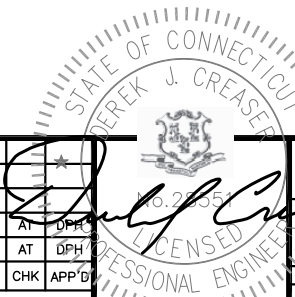




RF PLUMBING DIAGRAM 1
SCALE: N.T.S. RF-1

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

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



Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

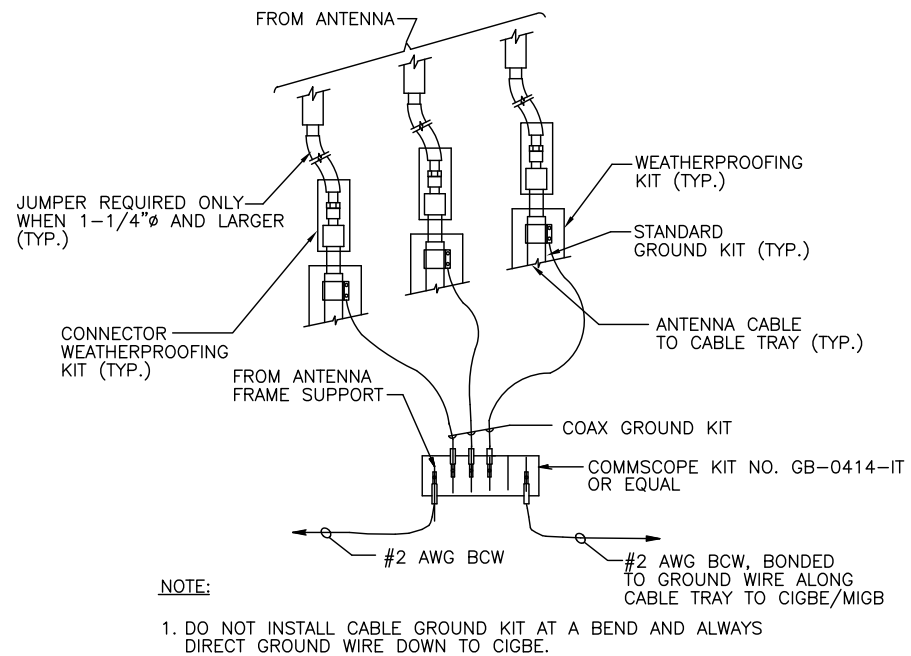
SAI
27 NORTHWESTERN DR.
SALEM, NH 03079

SITE NUMBER: CT2339
SITE NAME: ROXBURY SOUTHBURY ROAD
ATC SITE NUMBER: 280501
SOUTHBURY ROAD
ROXBURY, CT 06783
LITCHFIELD COUNTY

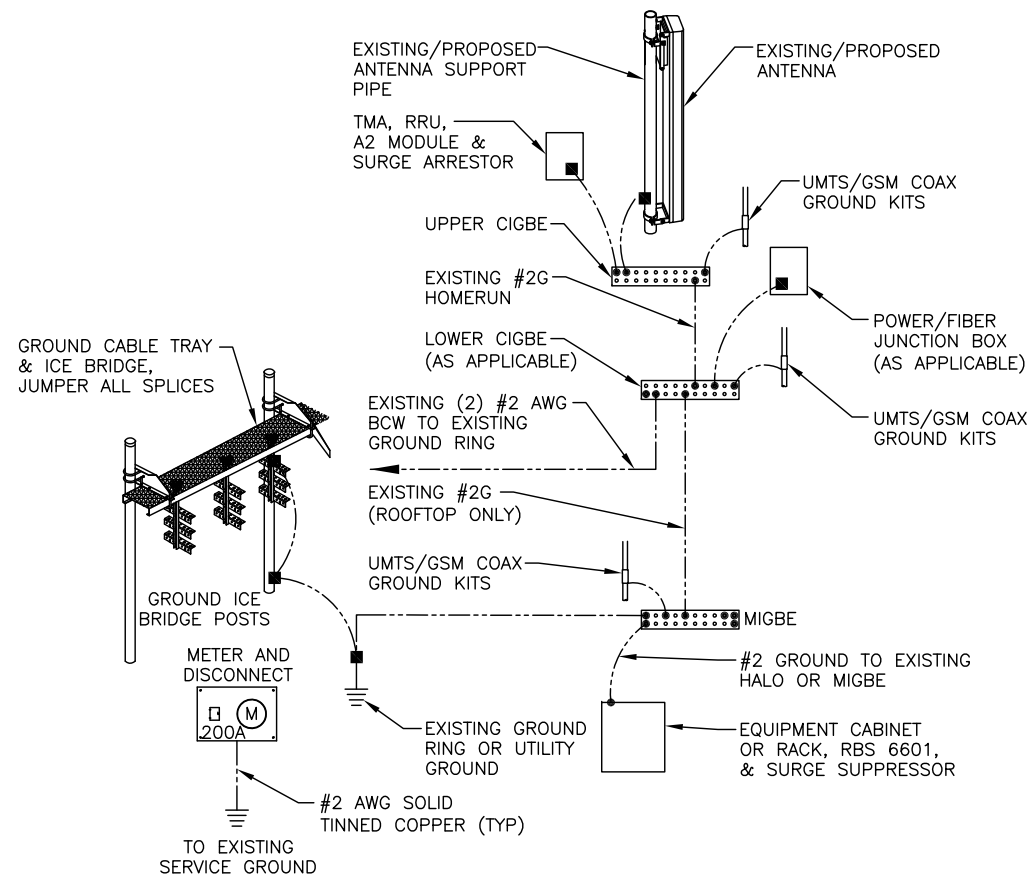
at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

1	06/30/16	ISSUED FOR CONSTRUCTION	RB	AT	DPH
A	06/15/16	ISSUED FOR REVIEW	EB	AT	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: EB		

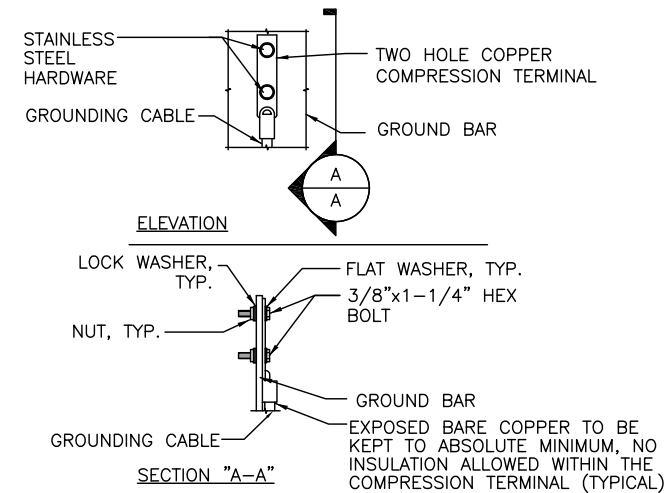
AT&T
RF PLUMBING DIAGRAM (LTE 2C)
SITE NUMBER: 2339.00
DRAWING NUMBER: RF-1
REV: 1



GROUND WIRE TO GROUND BAR CONNECTION DETAIL 1
SCALE: N.T.S. G-1



GROUNDING RISER DIAGRAM 2
SCALE: N.T.S. G-1



TYPICAL GROUND BAR CONNECTION DETAIL 3
SCALE: N.T.S. G-1

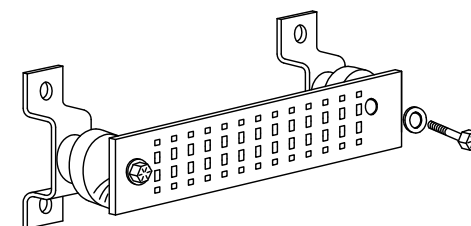
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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)



GROUND BAR - DETAIL 4
SCALE: N.T.S. G-1



1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586



27 NORTHWESTERN DR.
SALEM, NH 03079

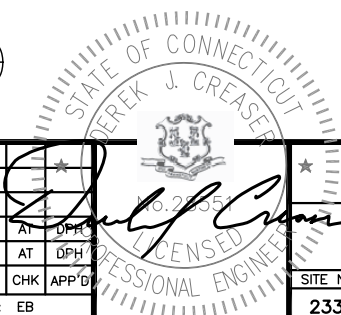
SITE NUMBER: CT2339
SITE NAME: ROXBURY SOUTHBURY ROAD
ATC SITE NUMBER: 280501
SOUTHBURY ROAD
ROXBURY, CT 06783
LITCHFIELD COUNTY



500 ENTERPRISE DRIVE, SUITE 3A
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SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: EB



AT&T		
GROUNDING DETAILS (LTE 2C)		
SITE NUMBER	DRAWING NUMBER	REV
2339.00	G-1	1



AMERICAN TOWER®
CORPORATION

Structural Evaluation	
ATC Site Number & Name	280501, Roxbury CT, CT
Carrier Site Number & Name	CT2339/FA#10113268, ROXBURY SOUTHBURY ROAD
Site Location	SOUTHBURY ROAD ROXBURY, CT 06783-2102, Litchfield County 41.51519444 N / -73.2630 W
Tower Description	170 ft Monopole
Basic Wind Speed	80 mph (Fastest Mile)
Basic Wind Speed w/ Ice	69 mph (Fastest Mile) w/ ½" ice
Code	TIA/EIA-222-F / 2003 IBC, Sec. 1609.1.1, Exception (5) & Sec. 3108.4 / 2005 Connecticut Supplement and 2009 Connecticut Amendment

Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
170.0	170.0	9	Raycap DC6-48-60-18-8F	Low Profile Platform	(4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk (2) 2" conduit	AT&T Mobility
		12	Ericsson RRUS			
		3	Andrew SBNH-1D6565C			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
170.0	170.0	3	Ericsson AIR 21 B4A/12-B5P 2.4M	-	(6) 1 5/8" Coax	AT&T Mobility

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
170.0	170.0	3	Ericsson RRUS A2 B2	Low Profile Platform	(3) 3/8" (0.38") RET Control Cable (2) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk	AT&T Mobility
		3	Ericsson RRUS-12 B2			
		9	CCI HPA-65R-BUU-H8			

¹ 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).

Install proposed coax inside of the pole shaft.

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.

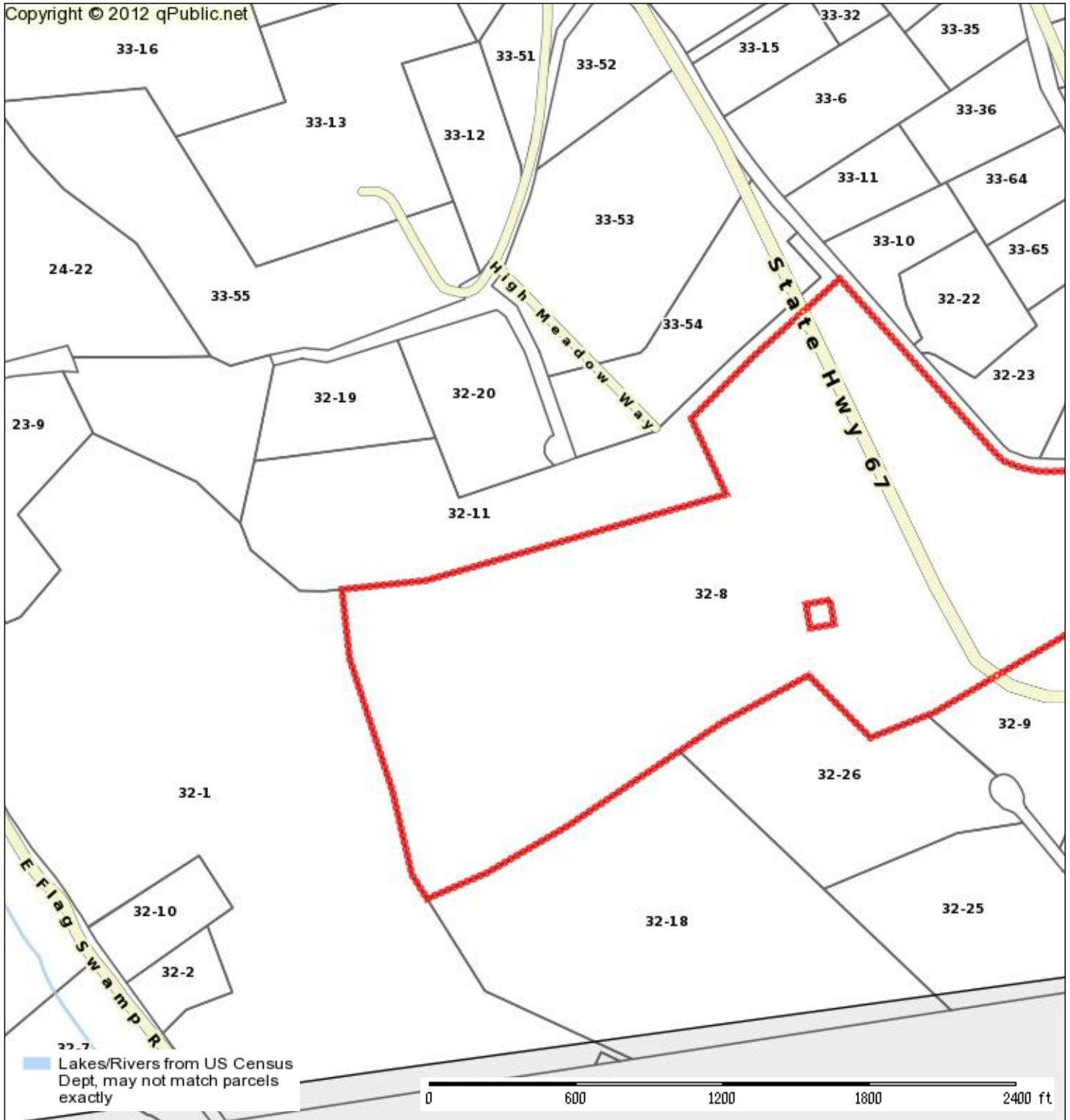
Reviewed by:
Scott Wirgau, PE
Structural Team Leader



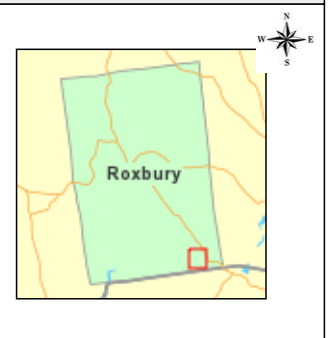
Jul 6 2016 5:41 PM

TD/KMV





Town of Roxbury			
Parcel: 180 Acres: 96.49			
Name:	C N BUILDERS INC	Land Value:	1489120
Site:	377 SOUTHBURY RD	Improvement Value:	0
Sale:	\$0 on 1900-01-01 Reason= Qual=	Accessory Value:	0
Mail:	3 ALEXANDER LN	Total Value:	1489120
	WESTON, CT 06883-9998		



The Town of Roxbury makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll.
 Date printed: 08/12/16 : 10:17:28



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Owner and Parcel Information	
Owner Name	C N BUILDERS INC
Mailing Address	3 ALEXANDER LN WESTON, CT 06883-9998
Location Address	377 SOUTHBURY RD 32 / 008
Map / Lot	100 Res Vac Land
Assessing Neighborhood	05
Today's Date	August 12, 2016
Parcel ID	180 (Account #: 00015800)
Survey	V9 P13
Census Tract / Census Block	5448 / 268100000000
Acreage	96.49
Parcel Map	<input type="button" value="Show Parcel Map"/> <input type="button" value="Owner List By Radius"/>

Current Appraised Value Information							
Building Value	XF Value	OB Value	Land Value	Special Land Value	Total Appraised Value	Net Appraised Value	Current Assessment
\$ 0	\$ 0	\$ 0	\$ 1,287,850		\$ 1,287,850	\$ 1,287,850	\$ 901,490

Assessment History					
Year	Building	OB/Misc	Land	Total Assessment	
Current	0	0	\$ 901,490	\$ 901,490	
2013	0	0	\$ 901,490	\$ 901,490	
2012	0	0	\$ 901,490	\$ 901,490	

Land Information					
Use	Class	Zoning	Area	Value	
Res Vac Land	R	C	3 AC	\$ 179,990	
Res Vac Land	R		93.26 AC	\$ 1,105,130	
Res Vac Land	R		0.23 AC		
Cell Site Vac Lnd	I		1 BL	\$ 204,000	

Building Information
No Building Information available for this parcel.

Out Buildings / Extra Features				
Description	Sub Description	Area	Year Built	Value
No Out Building/Misc Information available for this parcel.				

Sale Information				
Sale Date	Sale Price	Deed Book/Page	Vacant or Improved	Owner
01/01/1900		40/ 716		C N BUILDERS INC

Permit Information								
Permit ID	Issue Date	Type	Description	Amount	Inspection Date	% Complete	Date Complete	Comments
EP16-2	07/02/2014	GE	Generator	\$ 27,600		100		
EP14-34	11/21/2013	EL	Electric	\$ 10,000		100		CELL TOWER

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