
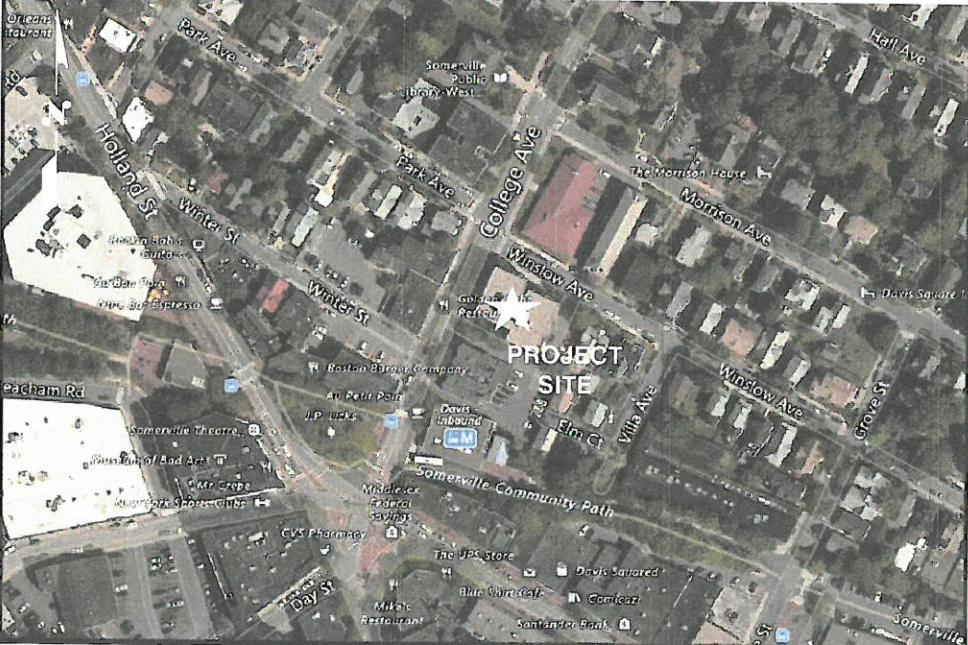

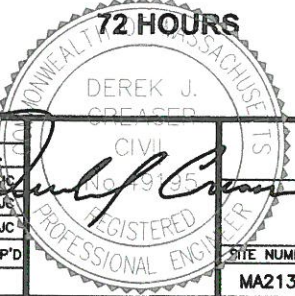





PROJECT INFORMATION			<div></div> <div>SITE NUMBER: MA2130</div> <div>SITE NAME: SOMERVILLE CIAMPA MANOR</div> <div>PROJECT: LTE BWE 2017 UPGRADE</div>																															
SCOPE OF WORK: TELECOMMUNICATIONS FACILITY UPGRADE (LTE BWE 2017 UPGRADE):																																		
SITE ADDRESS: 27 COLLEGE AVENUE SOMERVILLE, MA 02144																																		
LATITUDE: 42.397213° N, 42° 23' 49.96" N																																		
LONGITUDE: 71.121388° W, 71° 07' 17.00" W																																		
TYPE OF SITE: ROOFTOP / INDOOR EQUIPMENT																																		
TOP OF ROOF: 55'-0"±																																		
RAD CENTER: 63'-0"±																																		
CURRENT USE: TELECOMMUNICATIONS FACILITY																																		
PROPOSED USE: TELECOMMUNICATIONS FACILITY																																		
DRAWING INDEX			VICINITY MAP		GENERAL NOTES																													
SHEET NO.	DESCRIPTION	REV.	DIRECTIONS TO SITE: HEAD NORTHEAST TOWARD LEGGAT McCALL CONN. 0.2 MILES. TURN LEFT AT LEGGAT McCALL CONN. 0.2 MILES. SLIGHT RIGHT AT BURR ST. 489 FT. TURN LEFT AT COCHITUATE RD. 295 FT. MERGE ONTO I-90 E/MASSACHUSETTS TPKE E TOWARD BOSTON/I-95 (PORTIONS TOLL). 6.7 MI TAKE THE I-95 N/RT-128 N/RT-30 EXIT, EXIT 14, TOWARD N.H.-MAINE/POINTS NORTH. 1.2 MI MERGE ONTO I-95 N/MA-128 N VIA THE EXIT ON THE LEFT TOWARD WALTHAM/PORTSMOUTH NH. 5.9 MI MERGE ONTO MA-2 E/CONCORD TURNPIKE VIA EXIT 29A TOWARD ARLINGTON/CAMBRIDGE. 6.4 MI TAKE THE US-3 N/RT-16 E EXIT ON THE LEFT TOWARD ARLINGTON/MEDFORD. 0.1 MI TURN SLIGHT LEFT ONTO US-3 N/MA-16 E/ALEWIFE BROOK PKWY. CONTINUE TO FOLLOW MA-16 E/ALEWIFE BROOK PKWY. 1.0 MI TURN RIGHT ONTO POWDER HOUSE BLVD. POWDER HOUSE BLVD IS 0.1 MILES PAST BROADWAY 0.9 MI ENTER NEXT ROUNDABOUT AND TAKE 2ND EXIT ONTO COLLEGE AVE. 0.4 MI 27 COLLEGE AVE IS ON THE LEFT.		<div><div>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.</div><div>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.</div><div>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.</div></div>																													
T-1	TITLE SHEET	1																																
GN-1	GENERAL NOTES	1																																
A-1	ROOF & EQUIPMENT PLAN	1																																
A-2	ANTENNA LAYOUTS	1																																
A-3	ELEVATION	1																																
A-4	DETAILS	1																																
RF-1	RF PLUMBING DIAGRAM	1	UNDERGROUND SERVICE ALERT																															
G-1	GROUNDING DETAILS	1																																
			<div><div></div><div>CALL BEFORE YOU DIG</div><div>CALL TOLL FREE 1-888-DIG-SAFE</div><div>OR CALL 811</div><div>72 HOURS</div><div></div></div>		<div>AT&T</div> <div>TITLE SHEET (LTE BWE)</div> <table><tr><td>SITE NUMBER</td><td>DRAWING NUMBER</td><td>REV</td></tr><tr><td>MA2130</td><td>T-1</td><td>1</td></tr></table>		SITE NUMBER	DRAWING NUMBER	REV	MA2130	T-1	1																						
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<div><div>1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586</div></div>			<div><div>27 NORTHWESTERN DR. SALEM, NH 03079</div></div>		<div>SITE NUMBER: MA2130 SITE NAME: SOMERVILLE CIAMPA MANOR 27 COLLEGE AVENUE SOMERVILLE, MA 02144 MIDDLESEX COUNTY</div>		<div><div>550 COCHITUATE ROAD FRAMINGHAM, MA 01701</div></div>		<table><tr><td>NO.</td><td>DATE</td><td>REVISIONS</td><td>BY</td><td>CHK</td><td>APP'D</td></tr><tr><td>1</td><td>09/19/16</td><td>ISSUED FOR CONSTRUCTION</td><td>EB</td><td>AT</td><td>DJC</td></tr><tr><td>0</td><td>09/12/16</td><td>ISSUED FOR REVIEW</td><td>RB</td><td>AT</td><td>DJC</td></tr><tr><td>A</td><td>08/26/16</td><td>ISSUED FOR REVIEW</td><td>SB</td><td>AT</td><td>DJC</td></tr></table> <div>SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: SB</div>		NO.	DATE	REVISIONS	BY	CHK	APP'D	1	09/19/16	ISSUED FOR CONSTRUCTION	EB	AT	DJC	0	09/12/16	ISSUED FOR REVIEW	RB	AT	DJC	A	08/26/16	ISSUED FOR REVIEW	SB	AT	DJC
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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 AWS 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: MA STATE BUILDING CODE 780 CMR 8TH EDITION AND IBC 2009
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-G,
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		




1400 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: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
27 COLLEGE AVENUE
SOMERVILLE, MA 02144
MIDDLESEX COUNTY



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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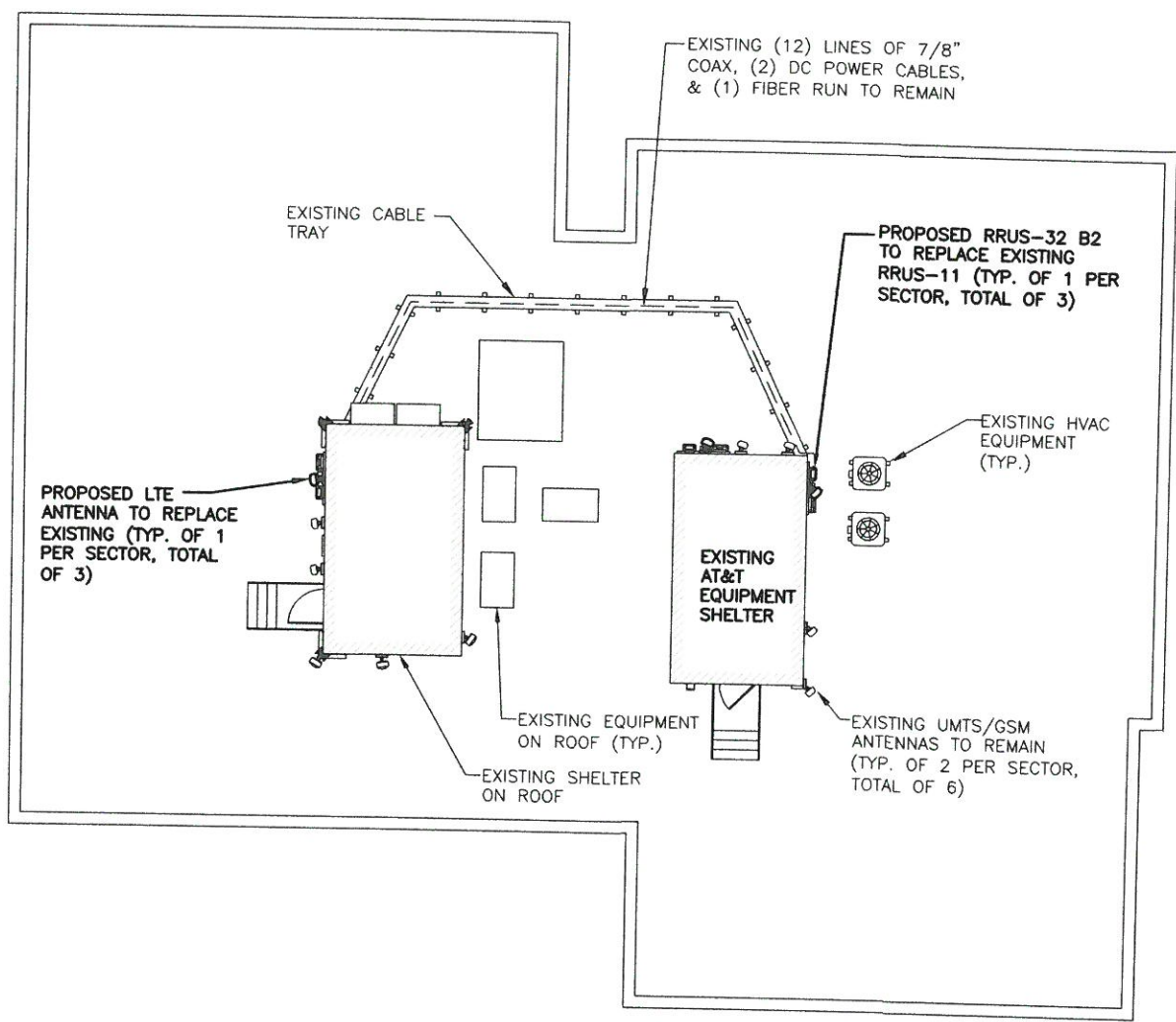
AT&T
GENERAL NOTES
(LTE BWE)
SITE NUMBER: MA2130
DRAWING NUMBER: GN-1
REV: 1

ALPHA
SECTOR
LTE
20°

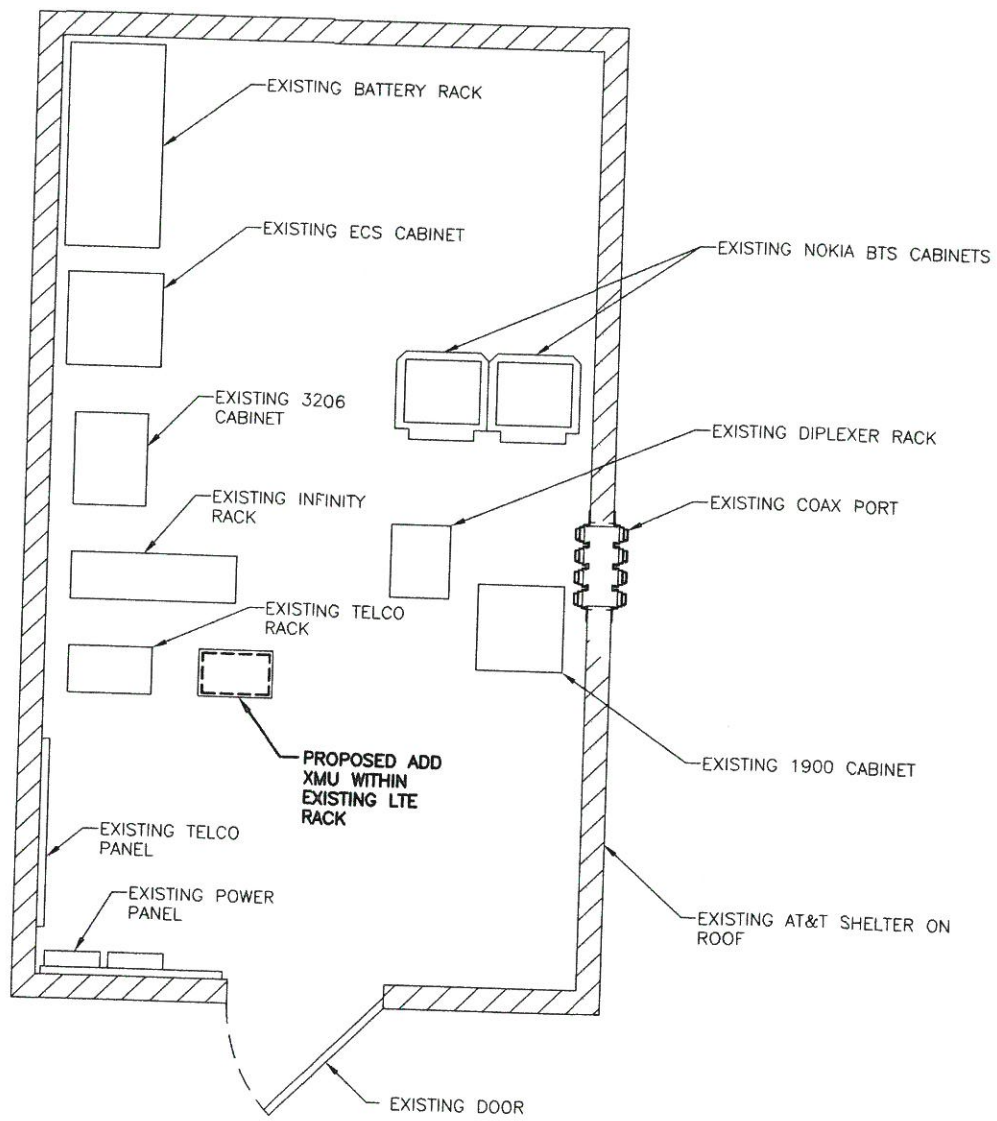
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REFER TO THE FINAL RF DATA
SHEET FOR FINAL ANTENNA
SETTINGS.

NOTE:
REFER TO STRUCTURAL ANALYSIS
BY: HUDSON DESIGN GROUP, LLC,
DATED: SEPTEMBER 16, 2016,
FOR THE CAPACITY OF THE
EXISTING STRUCTURES TO SUPPORT
THE PROPOSED EQUIPMENT.

GAMMA
SECTOR
LTE
270°



BETA
SECTOR
LTE
140°



ROOF PLAN

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



0 4'-0" 8'-0" 16'-0" 24'-0"



EQUIPMENT PLAN

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



0 1'-0" 2'-0" 4'-0" 6'-0"

Hudson
Design Group, LLC
1600 OSGOOD STREET
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SITE NUMBER		DRAWING NUMBER		REV			
MA2130		A-1		1			

EXISTING LTE ANTENNA
@ POS 1 TO BE
REMOVED & REPLACED
(TOTAL OF 1, ALPHA
SECTOR)

ALPHA
SECTOR
LTE
20°

ALPHA
SECTOR
UMTS/GSM
20°

ALPHA
SECTOR
UMTS/GSM
20°

PROPOSED LTE
ANTENNA @ POS 1 TO
REPLACE EXISTING
(TOTAL OF 1, ALPHA
SECTOR)

ALPHA
SECTOR
LTE
20°

ALPHA
SECTOR
UMTS/GSM
20°

ALPHA
SECTOR
UMTS/GSM
20°

EXISTING RRUS-11
(TYP. OF 1 PER
SECTOR, TOTAL OF 3)
TO BE REMOVED &
REPLACED

EXISTING LTE ANTENNA
@ POS 1 TO BE
REMOVED & REPLACED
(TOTAL OF 1, BETA
SECTOR)

BETA
SECTOR
LTE
140°

PROPOSED RRUS-32 B2
TO REPLACE EXISTING
RRUS-11 (TYP. OF 1 PER
SECTOR, TOTAL OF 3)

PROPOSED LTE ANTENNA
TO REPLACE EXISTING
@ POS 1 (TOTAL OF 1,
BETA SECTOR)

BETA
SECTOR
LTE
140°

EXISTING RRH TO REMAIN
(TYP. OF 1 PER SECTOR,
TOTAL OF 3)

EXISTING SURGE
ARRESTOR TO REMAIN
(TYP. OF 1 PER SECTOR,
TOTAL OF 3)

GAMMA
SECTOR
LTE
270°

EXISTING LTE ANTENNA
@ POS 3 TO BE
REMOVED & REPLACED
(TOTAL OF 1, GAMMA
SECTOR)

GAMMA
SECTOR
UMTS/GSM
270°

GAMMA
SECTOR
UMTS/GSM
270°

EXISTING RRH TO REMAIN
(TYP. OF 1 PER SECTOR,
TOTAL OF 3)

EXISTING SURGE
ARRESTOR TO REMAIN
(TYP. OF 1 PER SECTOR,
TOTAL OF 3)

GAMMA
SECTOR
LTE
270°

PROPOSED LTE ANTENNA
@ POS 3 TO REPLACE
EXISTING (TOTAL OF 1,
GAMMA SECTOR)

GAMMA
SECTOR
UMTS/GSM
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GAMMA
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ANTENNA TO REMAIN
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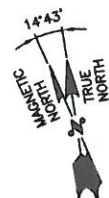
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BETA
SECTOR
UMTS/GSM
140°

EXISTING GSM/UMTS
ANTENNA TO REMAIN
(TYP. OF 1 PER
SECTOR, TOTAL OF 3)



EXISTING ANTENNA LAYOUT

SCALE: N.T.S.

1
A-2



PROPOSED ANTENNA LAYOUT

SCALE: N.T.S.

2
A-2



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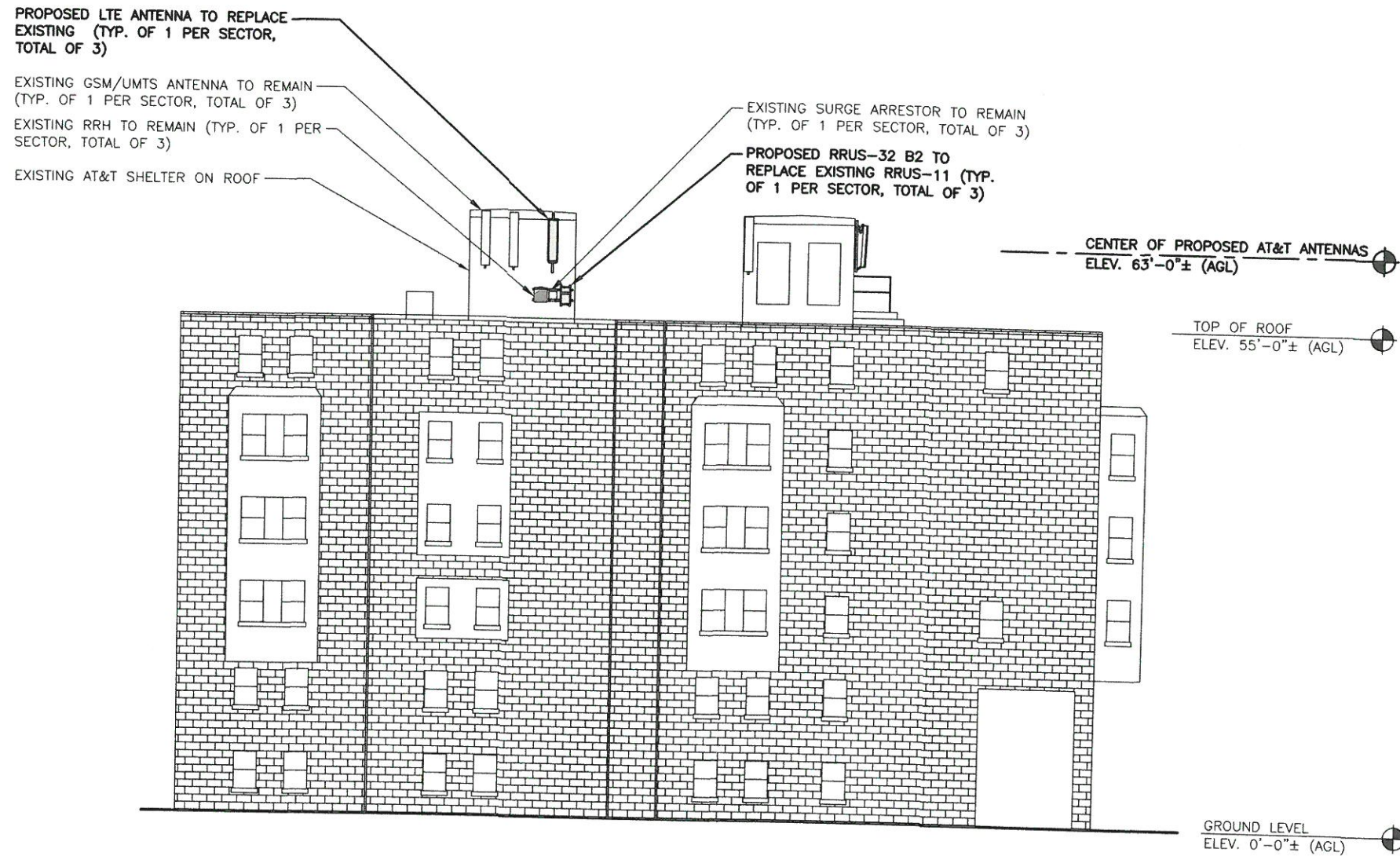
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

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NOTE:
REFER TO STRUCTURAL ANALYSIS
BY: HUDSON DESIGN GROUP, LLC,
DATED: SEPTEMBER 16, 2016,
FOR THE CAPACITY OF THE
EXISTING STRUCTURES TO SUPPORT
THE PROPOSED EQUIPMENT.

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



ELEVATION
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-3

0 4'-0" 8'-0" 16'-0" 24'-0"

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

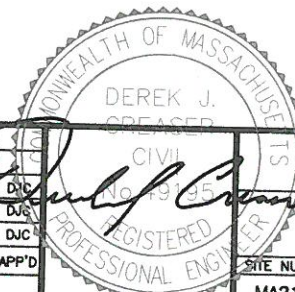
SITE NUMBER: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR

27 COLLEGE AVENUE
SOMERVILLE, MA 02144
MIDDLESEX COUNTY

at&t

550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	09/19/18	ISSUED FOR CONSTRUCTION	EB	AT	DJC
0	09/12/16	ISSUED FOR REVIEW	RB	AT	DJC
A	08/26/16	ISSUED FOR REVIEW	SB	AT	DJC
SCALE: AS SHOWN					
DESIGNED BY: AT			DRAWN BY: SB		



AT&T

ELEVATION
(LTE BWE)

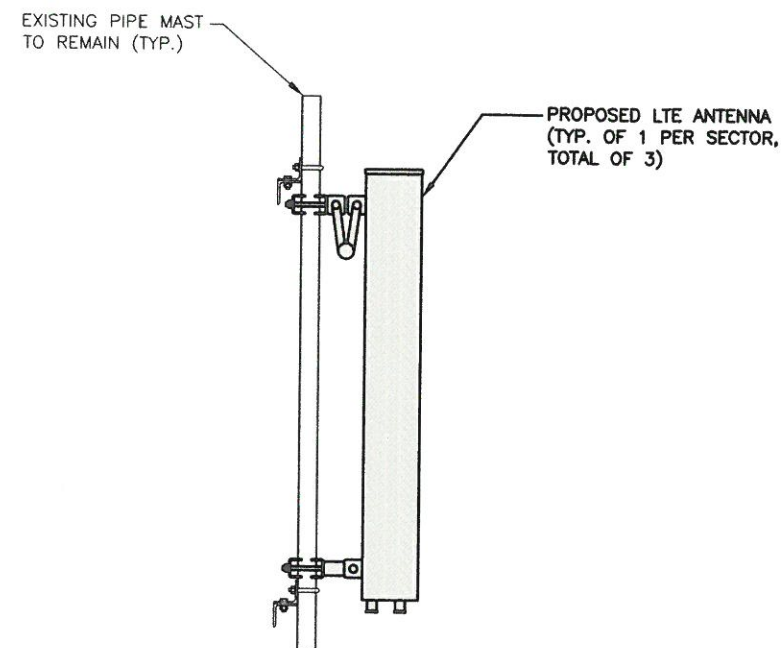
SITE NUMBER	DRAWING NUMBER	REV
MA2130	A-3	1

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

NOTE:
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DATED: SEPTEMBER 16, 2016,
FOR THE CAPACITY OF THE
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THE PROPOSED EQUIPMENT.

EXISTING ANTENNA SCHEDULE			
SECTOR	MAKE	MODEL#	SIZE (INCHES)
ALPHA	KMW	AM-X-CD-14-65-00T-RET	48.0x11.8x5.9
	KATHREIN	742-264	52.5x10.3x7.2
	KATHREIN	742-264	52.5x10.3x7.2
BETA	KMW	AM-X-CD-14-65-00T-RET	48.0x11.8x5.9
	KATHREIN	742-264	52.5x10.3x7.2
	KATHREIN	742-264	52.5x10.3x7.2
GAMMA	KATHREIN	742-264	52.5x10.3x7.2
	KATHREIN	742-264	52.5x10.3x7.2
	KMW	AM-X-CD-14-65-00T-RET	48.0x11.8x5.9

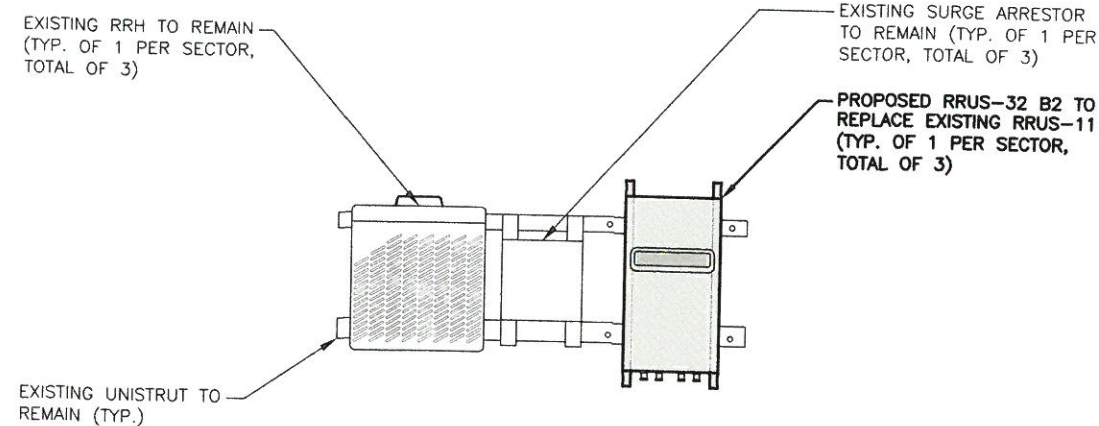
PROPOSED ANTENNA SCHEDULE			
SECTOR	MAKE	MODEL#	SIZE (INCHES)
ALPHA	COMMSCOPE	SBNHH-1D65A	55.0x11.8x7.1
	KATHREIN	742-264	52.5x10.3x7.2
	KATHREIN	742-264	52.5x10.3x7.2
BETA	COMMSCOPE	SBNHH-1D65A	55.0x11.8x7.1
	KATHREIN	742-264	52.5x10.3x7.2
	KATHREIN	742-264	52.5x10.3x7.2
GAMMA	COMMSCOPE	SBNHH-1D65A	55.0x11.8x7.1
	KATHREIN	742-264	52.5x10.3x7.2
	KMW	AM-X-CD-14-65-00T-RET	48.0x11.8x5.9



**PROPOSED LTE ANTENNA
MOUNTING DETAIL**
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

1
A-4

0 0'-6" 1'-0" 2'-0" 3'-0"



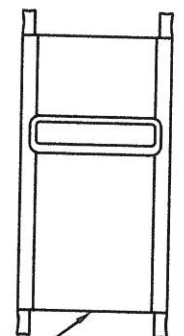
**PROPOSED RRH
MOUNTING DETAIL**
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

2
A-4

0 0'-6" 1'-0" 2'-0" 3'-0"

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

NOTE:
MOUNT PER MANUFACTURER'S
SPECIFICATIONS



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

PROPOSED RRH DETAIL
SCALE: N.T.S.

3
A-4

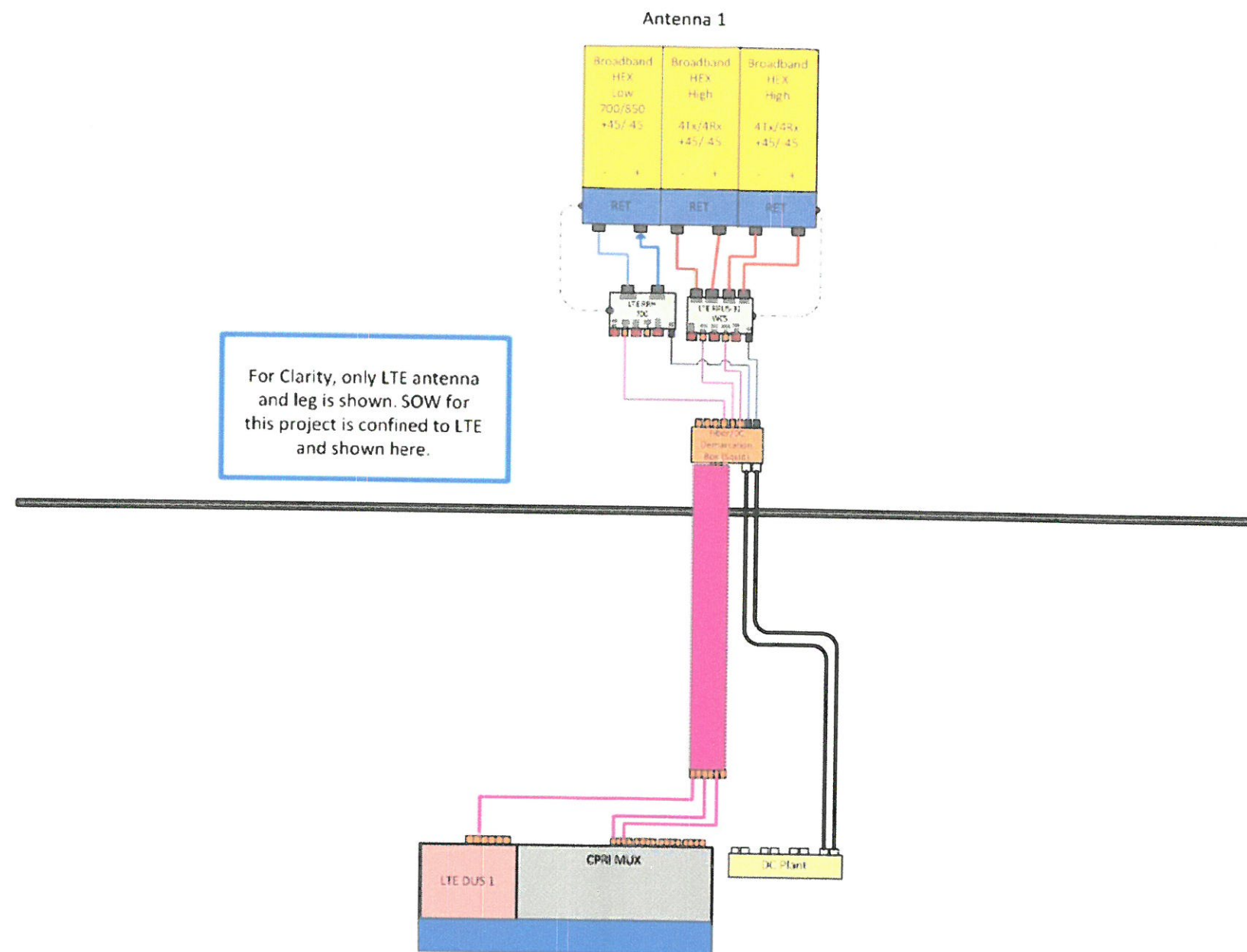
Hudson
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RF PLUMBING DIAGRAM
SCALE: N.T.S

1
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
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SAI

27 NORTHWESTERN DR.
SALEM, NH 03079

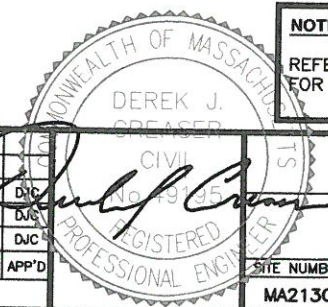
SITE NUMBER: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR

27 COLLEGE AVENUE
SOMERVILLE, MA 02144
MIDDLESEX COUNTY

at&t

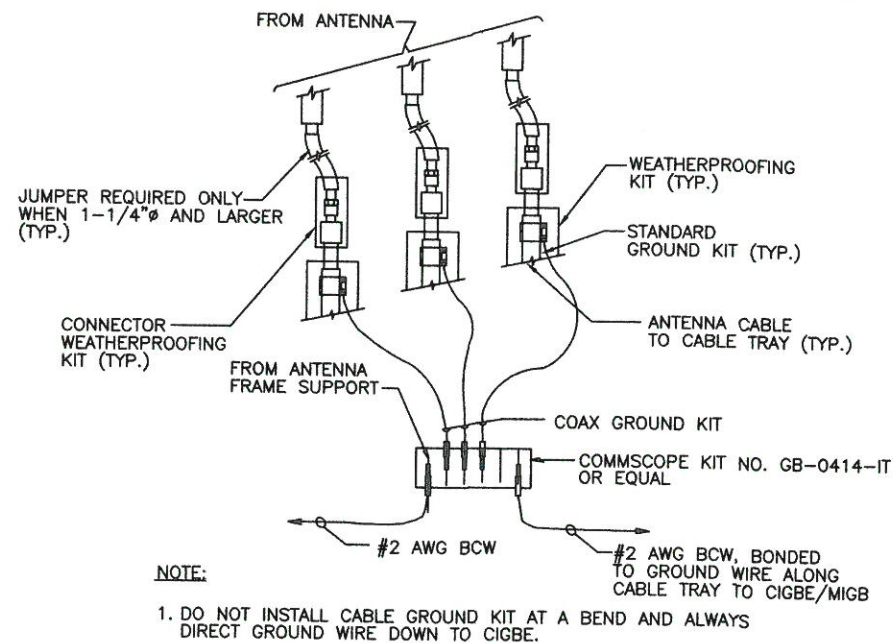
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

1 09/19/16 ISSUED FOR CONSTRUCTION			EB	AT	DJC
0 09/12/16 ISSUED FOR REVIEW			RB	AT	DJC
A 08/26/16 ISSUED FOR REVIEW			SB	AT	DJC
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN			DESIGNED BY: AT		
			DRAWN BY: SB		
			SITE NUMBER		
			MA2130		
			DRAWING NUMBER		
			RF-1		
			REV		
			1		



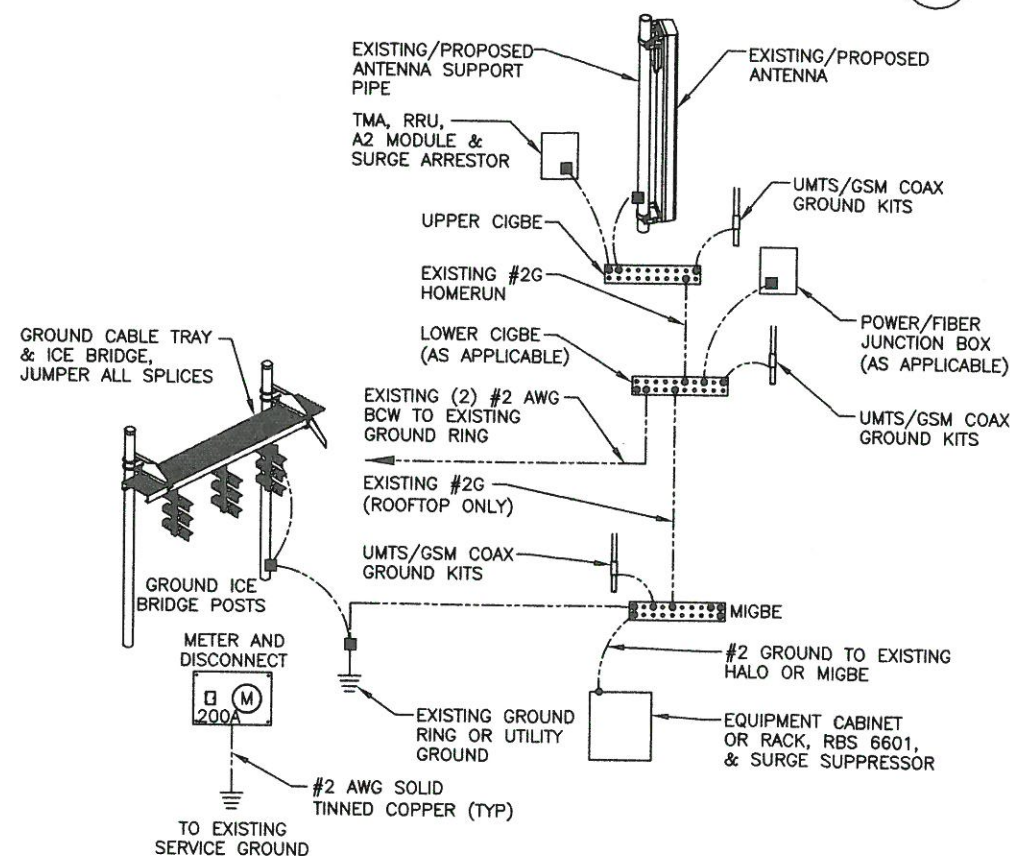
AT&T

RF PLUMBING DIAGRAM
(LTE BWE)



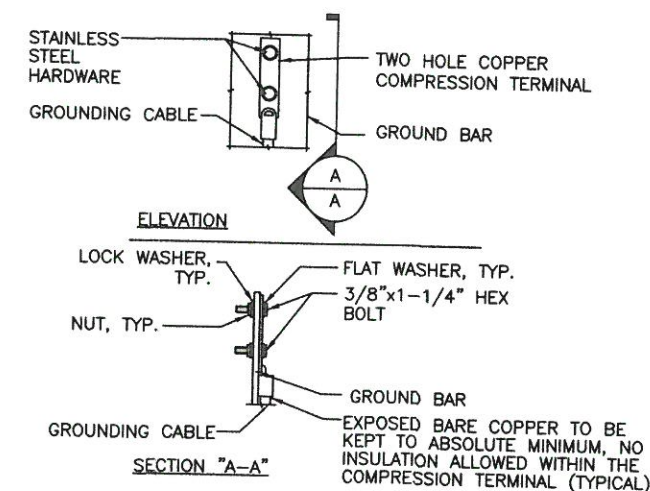
GROUND WIRE TO GROUND BAR CONNECTION DETAIL
SCALE: N.T.S.

1
G-1



GROUNDING RISER DIAGRAM
SCALE: N.T.S.

2
G-1



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

TYPICAL GROUND BAR CONNECTION DETAIL
SCALE: N.T.S.

3
G-1

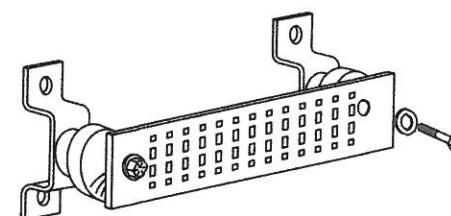
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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
SCALE: N.T.S.

4
G-1

Hudson
Design Group, Inc.

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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: MA2130
SITE NAME: SOMERVILLE CIAMPA MANOR
27 COLLEGE AVENUE
SOMERVILLE, MA 02144
MIDDLESEX COUNTY



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D	SITE NUMBER	DRAWING NUMBER	REV
1	09/19/16	ISSUED FOR CONSTRUCTION	EB	AT	DJC	MA2130	G-1	1
0	09/12/16	ISSUED FOR REVIEW	RB	AT	DJC			
A	08/26/16	ISSUED FOR REVIEW	SB	AT	DJC			

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

AT&T
GROUNDING DETAILS
(LTE BWE)