ASPERIOR STATE OF THE STATE OF

CITY OF SOMERVILLE

Commonwealth of Massachusetts 93 Highland Avenue Somerville, MA 02143 (617) 625-6600

BUSINESS LICENSE APPLICATION - Small Wireless Facility

File #: 19-014836

License #: BL19-000089

Address: 10 RADCLIFFE RD

Licensee: Matthew Pricco Network Building + Consulting

DBA Name: ExteNet Systems, Inc.

Business Ownership Type: Corporation

Legal Name of Entity: ExteNet Systems, Inc.

Owners/Officers: James A. Hyde, H. Anthony Lehv, Daniel L. Timm,

License Information:

Do you believe this to be a 6409(a) application?: No

Describe the reason for the work, and the intended beneficiaries:

Provide the detailed description of the work that should appear on the License: Extenet proposes to replace existing streetlight pole and install a small cell wireless facility. The principal elements of the proposed facility are an antenna housed in a 24 inch long shroud side-mounted on the pole, including an additional 6 feet of base mounting equipment and three radios in a shroud also mounted on the pole. See the plans accompanying this application for details. This proposal improves wireless capacity for residents, businesses and visitors.

of installations on existing poles:

of installations on new poles: 1

Provide the legal name of the entity that will own the License: ExteNet Systems, Inc.

Approval Conditions:

Approved By:

Hans Jensen, Approved

Karla Cuarezma, Approved

Malik Drayton, Approved with Conditions

APPROVAL CONDITION: MD20200325: Contractor shall take all necessary precautions to avoid

damaging any tree or tree part with equipment.

APPROVAL CONDITION: MD20200325: All nearby street tree(s) shall be protected prior to and during all construction activities using TREE BOX or TREE WRAPS. TREE BOX shall be constructed from 2 in. x 4 in. lumber creating a box around the border of the tree pit with 2 in. x 4 in. lumber standing

straight up at the corners and wrapped with orange snow fence. Detail attached. . TREE WRAPS (TREE TRUNK WRAPPING PROTECTION LUMBER) shall consist of 2 in. x 4 in. and 8 ft. height lumber wired together in close spacing with zip ties or 16 gauge galvanized steel wire to form a protective enclosure around tree trunks. Use burlap to separate the wood from the bark if necessary to prevent wood from scraping or bruising bark. Do not use staples or puncture the trunk in any way. APPROVAL CONDITION: MD20200325: Any tree roots less than two (2) inches in diameter that cannot be avoided during construction shall be carefully and cleanly cut with a clean pair of pruning shears or loppers. Roots are to be cut back flush with the edge of the trench. If any tree roots greater than two (2) inches in diameter are encountered, stop work immediately and contact the City Urban Forester. Any and all pruning of roots greater than 2 inches in diameter must be completed under the supervision of the City Urban Forester.

John Power, Approved Mark Lawhorne, Approved John J. Long, Approved Utility

ward 4



CITY OF SOMERVILLE, MASSACHUSETTS CITY CLERK'S OFFICE

JOSEPH A. CURTATONE MAYOR

JOHN J. LONG
CITY CLERK

March 30, 2020

NOTICE OF PUBLIC HEARING

You are hereby notified that the Somerville City Council will hold a Public Hearing on the following Petition. You are receiving this Notice because the Petitioner has reported that you own property that abuts the work that is being proposed. You and other members of the public are invited to attend and be heard at this Hearing.

Because of Governor Baker's and Mayor Curtatone's recent orders limiting the number of people that may gather in one place, this meeting of the City Council will be conducted via remote participation, online in a webinar hosted on the GoToWebinar platform.

You have two ways to be heard at this meeting:

- 1. To attend and be heard, enter the link exactly as it appears below into your internet browser anytime before the meeting. You will then be asked to register for the meeting. After registering, you will receive an email with instructions to join the webinar when it starts.
- 2. If you are unable to attend but wish to be heard, you may send written comments by US mail to the City Clerk at the address below, or by email to cityclerk@somervillema.gov. Your comments must arrive no later than 12 Noon on the day of the Hearing, in order to be sure they are conveyed to the Council.

PETITION: Extenet seeks a Grant of Location to replace existing streetlight pole and install a small cell wireless antenna on a new streetlight pole located at the intersection of 10 Radcliffe Road and James Street.

PLACE: https://attendee.gotowebinar.com/register/826423032073642508

TIME: Tuesday, April 7, 2020, at 7:00 PM.

PURPOSE: The work is necessary to provide or improve wireless communication to the immediate area.



LATITUDE: 42.388454° LONGITUDE: -71.093394°

TOTALLY COMMITTED

NE-MA-BSTN3N01-TMO NE-MA-BSTN3N01-03335 / NE3206BA_31LAB

PROPOSED SMALL CELL NODE

10 RADCLIFFE ROAD, SOMERVILLE, MA 02145 CITY OF SOMERVILLE, MIDDLESEX COUNTY





NE-MA-BSTN3N01-03335 TMO ID: NE3206BA_31LAB 10 RADCLIFFE ROAD SOMERVILLE, MA 02145 MIDDLESEX COUNTY

		REVISIONS				
				-		
DESIGN RECORD	5	03/19/20	15' COMPLIANCE ADDED	DRG		
H H	4	01/28/20	MOUNT REVISED	DRG		
3	3	09/23/19	REVISED .	NSB		
8	2	08/06/19	STAMP ADDED	CWE		
	1 .	05/15/19	FOC REVISED	NSB		
- 1	0	04/12/19	PRELIMINARY	NSB		
	REV	DATE	DESCRIPTION	BY		



KRUPAKARAN KOLANDAIVELU, P.E. PROFESSIONAL ENGINEER LIC, #500

TITLE SHEET

01 of 05

VICINITY MAP



PROJECT INFORMATION

PROJECT NAME POLE TAG:

HUB LOCATION:

EXTENET PROJECT MANAGER:

NE-MA-BSTN3N01-TMO

LATITUDE: 42,388454* LONGITUDE: -71,093394* JURISDICTION

CITY OF SOMERVILLE MIDDLESEX COUNTY RICK ANGELINI 3030 WARRENVILLE RD, SUITE 340 LISLE, IL 60532 NOC: (866) 892-5327

ELECTRIC COMPANY: EVERSOURCE

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2015 INTERNATIONAL BUILDING CODE (MASSACHUSETTS AMENDED 9TH EDITION)
- 2017 NATIONAL ELECTRICAL CODE NFPA 1-2015 EDITION
- 2015 IFC REFERENCE 527 CMR AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- TIA 607 INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81

 IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275 ANSI/T 311

TITLE SHEET

02 NOTES

ANTENNA & EQUIPMENT DETAILS

ELECTRICAL & GROUNDING DETAILS

DRAWING INDEX

GENERAL NOTES:

- 4. THE SCOPE OF WORK SHALL INCLIDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEBAIED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN, EXCEPT FOR FIBER OPTIC CAULE AND OTHER MATERIALS IDENTIFIED BY.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HINSELF WITH THE FIELD CONDITIONS AND TO VERHY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWING/CONTRACT DOCUMENTS.
- 8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURE'S/VENDOR'S SPECIFICATION UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 9. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REMSIONS AND ADDENDUIS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- 10. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTIONS MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND KEEPING A COPY ON SITE, ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL CONFENUENT AUTHORITY.

- 14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- 15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOLUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL IS RESOLVED BY THE CONSTRUCTION MANAGER.
- 16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE PROJECT.
- 17. OWNER/CONTRACTOR SHALL CONTACT ONE CALL MINIMUM 72 HOURS PRIOR TO THE START OF CONSTRUCTION FOR LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 18. Submittal of Bid indicates that the contractor is cognizant of all job site conditions and work to BE performed under this contract.
- 19. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- 22. CLIM PRIDADES OF ALL DIBBER INSULING PRION MODE AND LEAVE MODE IN A DURINGET AND INFORMATION CONTINUES AND DESCRIPTION OF EMPIRICATION OF THIS CONTRACT, DULINGER ITSUS INDICATED ON THE DIMANNES TO THE OWNER IN COOD CONDITION, OBTAIN SHOLD RECEIPED UPON DILLARGE.
- 23. AFTER COMPLETION OF CONSTRUCTION, RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO CONSTRUCTION MANAGER.

ELECTRICAL NOTES:

- CONTRACTOR SHALL PERFORM ALL VERRICATIONS, OBSERVATION TESTS, AND DAMINATION WORK PRIOR TO ORDERING OF MY EQUIPMENT AND THE ACTUAL CONSTRUCTION, CONTRACTOR SHALL ISSUE A WRITEN MOTION OF MATERIAL PROPERTY AND THE PROJECT WANDER LISTEN ALL MALEINCTIONS, FALLY EQUIPMENT AND DISCREPANCIES.
- A MACTICAL AND COMPANY SAUL BE INSTAUD IN PERFORM FOR HEALTH AND SAUL BE OF THE PROPERTY OF TH
- 4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE CUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FORD TO BE PROVIDED THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WHITEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- 6. PROPERLY SEAL ALL PENETRATIONS, PROVIDE UL LISTED FIRE—STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE—RATED ASSEMBLIES. WATER—TIGHT USING SILICONE SEALANT.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MICHAELING PROJECT.
- ALL CONDUCTORS SHALL BE COPPER, MINIMUM CONDUCTOR SIZE SHALL BE ∮12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THIM, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- A RIGID CONDUIT SHALL BE LILL LABEL CALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR WINDER CONFIERT SAILS, IN CONTACT WITH THE EARTH, LINGER PUBLIC RODINATION IN MASSINEY WALLS OR EXPOSED ON BUILDING EXTEROR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WHEN HUNTS WAMP PROCESS NO. 3.
- B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
- C. LIQUID-TIGHT FLEGBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT RECRIPTERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LEWICH SHALL CONTAIN A FULL—SIZE GROUND CONDUCTOR.

- CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE, ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS, VERIFY EXACT POLITING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER BEING TO MANAGER BEING T
- E. PVC CONDUIT MAY BE PROMDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS, PROMDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE, PROVIDE GROUND CONDUCTOR IN ALL PVC RUSS, EXCEPT WHERE EXPOSED TO THE ATMOSPHERE, PROVIDE GROUND CONDUCTOR IN ALL PVC
- 12. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS, BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- 14. COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- 15. VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK, MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.

- 1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 2. ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- 3. ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.

- 6. GROUND COAXWL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- 7. ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 TINNED SOLID COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.

- 12. EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT OR EQUAL
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE, PROVIDE PHOTOS TO THE CONSTRUCTION MANAGER.
- 15. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- 17. WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- 19. ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING. THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

GROUNDING GUIDELINES:

ALL EQUIPMENT THAT IS INSTALLED AND MAY CAUSE ANY KIND OF ELECTRICAL CHARGE OR BUILD UP MUST HAVE PROPER AND ADEQUATE GROUNDING IN PLACE TO PREVENT FROM EQUIPMENT DAMAGE AND SHOCK HAZARDS.

MIST BE GROUND TO A MAN BIRSS BAY OR HOME RIM GROUND FROM THE GROUND PING STUD THAT IS ON THE CHARSES FAY DOUBLEN'S HAS A GROUND POINT ON IT, IT SHOULD BE GROUND, THE GROWND IS SET SHOULD FILL WITH COMPANIES ON EQUIPMENT GROUNDWISE, DOBBLEY, THE STRONGE IS OF WARTH FROM THE CHARSES OF THE STUD. FITTH A SHOULD BE A ONE OF THE FORLING BE A WARTH FOR HOLD BE A FOR THE STUD. FITTH A SHOULD BE A ONE OF THE FORLING BE A SHOULD BE A ONE OF THE FORLING BE A SHOULD BE A ONE OF THE FORLING BE A PLACE TO THE FORLING BE A SHOULD BE A ONE OF THE FORLING BE A PLACE TO GROWN BE A PLACE TO GROWN

IN LINE GROUNDS SHOULD BE INSTALLED WITH THE PROPER SIZE GROUND KITS ON ALL COAX CABLES, THE KITS ARE INSTALLED ON FRONT AND BUCK OF COAX RUNS OVER APPROXIMATELY 15 FEET, ANYTHING OVER 300 FEET NEEDS AN ADDITIONAL GROUND THE 150 FOOT MAY.

IF IT HAS A PLACE FOR A GROUND - GROUND IT.

ALL MIST PIPPS SHOULD BE ORGUND WITH BEAR METAL ON THE PLACE THE GROUND IS ATTACHED AND THEN COLL COLVANZATION OPEN THE MERE KEEN, TO PROPORT RIST, THE GROUND CAN BE ATRACHED MECHANICALLY OR EXCHIERMIC WIELD (CAN WELD) MAY BE USED, IF THE MAY PIPE IS THE TALLEST POINT ON A BUILDING IT SHOULD ALSO HAVE A LONTHING ROO ATTACHED TO IT AS WELL.

DIPLEXERS/DUPLEXERS/SPLITTERS/PASSIVE_COMPONENTS

IF IT HAS A PLACE FOR A GROUND TO BE INSTALLED - INSTALL IT.

ANY STRUCTURE OR FRAME SHOULD HAVE 2 GROUND WIRE, I.E. MAST PIPES, OUTDOOR ENCLOSURES, SHROUDS, BUSS BAR HOME RUN TO EARTH GROUND. ALL EQUIPMENT HAS 8 TO BUSS BARS.

ALL BUSS BWS HEED TO HAY A LIKE TO A PARTH GROUND SYSTEM AND UNIT OF SOLATED IF NOUNTED ANY THING THAT HAVE THE ANY SERVICE AND THE SOLATED IN COLUMN TO HAVE THE SOLATED IN COLUMN TO HAVE THE SOLATED IN COLUMN TO HAVE SWEET ANY THE SOLATED ANY THE SOLATE

- PRE WRAP ALL CONNECTIONS WITH BLACK ELECTRICAL TAPE TO COVER ALL METAL SHOWING TO PREVENT DAMAGE TO CONNECTOR WHEN WEATHER SEAL IS TO BE REMOVED, 3/4 INCH OR 2 INCH TAPE CAN BE USED FOR THIS PROCESS.
- WRAP CONNECTIONS WITH BUTYL WEATHER SEALANT WITH TWO LAYERS TO FORM A CONE LIKE SHAPE, OVER LAPPING THE LAYERS BY AT LEAST 50%. MOLD SEALANT TO PROPER SHAPE. THIS STEP IS CRUCIAL OR THE BUTYL WILL LEAK OVER TIME.
- WIRD SCALATI WITH 2 LATERS OF 2 INCH TAP, CHOI CAN CUT INTO STROPS IN TIGHT ASSASS FIRST WAVE.
 SHOULD SEARCH TO MAD TO MAD THE WARPS CLEAN AND CRESP. 210 WHAP SHOULD BE PULLD.
 TIGHTER THAN PIRST TO HOLD SEALATI INTO PROPER (CONE LIKE) SHAPE, DOER LATHING THATE SHOULD CORR.
 AT LEAST SOX OF EXCHL LATER OF TAPE PROPER.
- 5. OVERLAP THE TAPE 50% OF THE PREVIOUS LAYER.
- 8. AUMINS FIRSH THE LIST WIPP OF TAPE CONG. IP TO CREATE A SHIGUING OF THE TAPE SO IN THE WEATHER ANTHRIN THAT RUMS DON'T HE CASE, WILL NOT LEW, INTO THE SEAUNT, CUT THE END OF THE TAPE AND LAY IT ONTO THE FINSH. DO NOT STRETCH THE DID OF THE TAPE. THIS WILL CLUSE THE TAPE TO PALL OFF OVER THE AND CREATE A FLORING AFFECT.

1. CHECK TO MAKE SURE ALL CONNECTORS ARE TORQUED TO PROPER SPECIFICATIONS BEFORE YOU BEGIN.

- NOTE: THIS STEP DOES NOT NEED A CURTSY WRAP BECAUSE THE TAPE DOES NOT ACTUALLY ADHERE TO THE CONNECTOR ITSELF BUT BINDS TO ITSELF. ALSO KNOWN AS "SELF-AMALGAMATING TAPE.
- WRAP CONNECTIONS FUSION TAPE SEALANT WITH TWO LAYERS TO FORM A CONE LIKE SHAPE, FUSION TAPE MUST OVER LAP AT LEAST 50% TO FORM A PROPER SEAL COVER ALL OF THE BARE METAL SHOWING (AT LEAST 1-1/2) INCH PAST FIND OF CONNECTION:
- 4. IF THIS "TAPE" IS NOT PULLED TIGHT WHILE WRAPPING YOU WILL NOT CREATE A PROPER SEAL, IT MUST BE STRETCHED TO CREATE BOND TO ITSELF.
- 5. WRAP AT LEAST 2 LAYERS OF 3/4 INCH TAPE, EACH LAYER SHOULD COVER AT LEAST 50% OF PREVIOUS TAPE WRAP.
- 8. AUMYS FINSH THE LIST WIND OF TAPE COUNG UP TO CREATE A SHIKKING OF THE TAPE SO IN THE WEATHER ANTHRON THAT RIANS COMM THE CABLE WILL NOT LEAK INTO THE STAUNT, CALL THE PIDS OF THE TAPE, AND LAY IT ONTO THE THISH, OO NOT STREICH THE DIO OF THE TAPE. THIS WILL CAUSE THE TAPE TO PULL OFF OVER THE AND CREATE A FLAGORIO AFFECT.

- PRE WRAP ALL CONNECTIONS WITH BLACK ELECTRICAL TAPE TO COVER ALL METAL SHOWING TO PREVENT DAMAGE TO CONNECTION WHEN WEATHER SEAL IS TO BE REMOVED. 3/4 INCH OR 2 INCH TAPE CAN BE USED FOR THIS PROCESS.
- USE ONLY OUTDOOR RATED HEAT SHRINK THAT HAS THE SELF—ADHESINE WHEN HEATED PROPERLY. THIS IS WHAT WILL CREATE THE SEAL TO THE CONNECTOR.
- 3. MAKE SURE HEAT SHRINK COMERS ALL OF THE COUPLERS AND CONNECTIONS, HEAT THE HEAT SHRINK TO SHRINK TIGHTLY TO THE CONNECTIONS AND CRAILE, MAKE SURE THE HEAT SHRINK IS STALED TOP AND BOTTOM OF THE CONNECTIONS, ALSO CHECK TO MAKE SURE HEAT SHRINK WAS NOT OVER HEATED AND THERE ARE NO BREAKS IN SEAL THROUGH-OUT THE SHRINK TUBING.

- 1. PROPERLY TORQUE CONNECTOR TO SPECIFICATION.
- APPLY ONE LAYER OF 3/4 INCH BLACK TAPE AROUND ENTIRE CONNECTOR ENDING AT LEAST 1-1/2 INCHES
 PAST TOP AND BOTTOM OF CONNECTOR TO PREVENT ANY MOISTURE FROM STICKING TO THE CONNECTOR.
- INSPECT THE DEVICE TO MAKE SURE IT IS NOT CHIPPED, CRACKED OR ANY SIGNS OF NEGLECT THAT WILL TAKE AWAY FROM MAKING A FULL SEAL AROUND THE CONNECTOR.
- 4. USE ONLY CORRECT SIZE PER CABLE AND CONNECTOR TYPE LE: 1/2 INCH FOR 1/2 INCH NOT 7/8TH FOR 1/2 INCH.
- FOLLOW DIRECTIONS THAT COME WITH PRODUCT MOST CLAM SHELL TYPE SEALANT DEVICES WRAP AROUND OR CLAMP AROUND A CONNECTION POINT.
- 7. ONCE THE CLAMP IS ON AND LOCKED AROUND THE CONNECTOR THE PROCESS IS COMPLETE

- PLACE BOOT OVER CABLE BETWEE CONNECTION IS ATMONDED TO CABLE. THIS IS ONLY RATED FOR PPC TYPE CONNECTIONS, (NOTE: IF THIS STEP IS SOPPED OR HOT CONNECTION THE CONNECTION THE CONNECTION THE CONNECTION THE CONNECTION THE CONNECTION OF THE CONNECTION STEP IS CONNECTIONS OF THE CONN
- 2. PLACE THE BOOT OVER THE CABLE, AND THEN MAKE THE CONNECTOR
- 4. SLIDE BOOT UP TO COVER THE ENTIRE CONNECTOR, FOLLOWING THE PPC GUIDELINES
- 5. THIS PROCESS IS COMPLETE AT THIS TIME.







NE-MA-BSTN3N01-03335 TMO ID: NE3206BA_31LAB 10 RADCLIFFE ROAD SOMERVILLE, MA 02145 MIDDLESEX COUNTY

П	REVISIONS				
	DESIGN RECORD	5	03/19/20	15' COMPLIANCE ADDED	DRG
ì	#	4	01/28/20	MOUNT REVISED	DRG
ì	<u>8</u>	3	09/23/19	REVISED	NSB
	H	2	08/06/19	STAMP ADDED	CWE
		1	05/15/19	FOC REVISED	NSB
1	ı	0	04/12/19	PRELIMINARY	NSB
	ш	REV	DATE	DESCRIPTION	BY



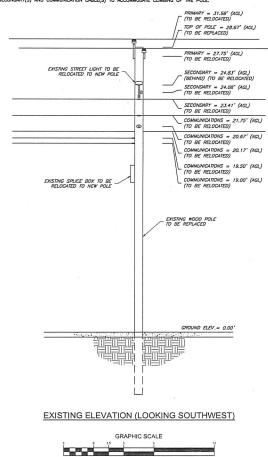
KRUPAKARAN KOLANDAIVELU, P.E. MA PROFESSIONAL ENGINEER LIC, #5001:

NOTES

SHEET 02 of 05

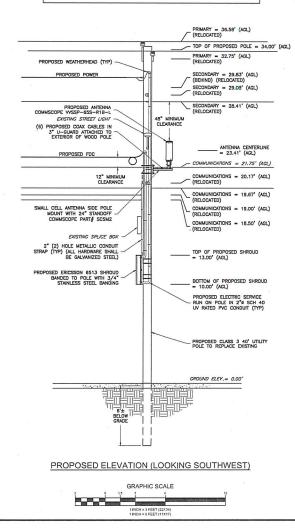


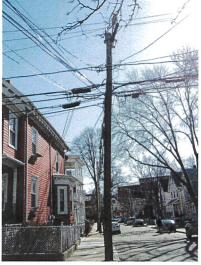
- 1. EQUIPMENT ELEVATION IS SUBJECT TO MAKE READY PERFORMED BY POLE OWNER.
- NEW PLACARD SHALL BE OSHA COMPLIANT AND DISPLAY THE FOLLOWING INFORMATION: TRANSMITTING SYSTEM, EQUIPMENT OWNER & PROPER CONTACT INFORMATION, INSTALL PER UTILITY COMPANY REQUIREMENTS AND VERIFY EXACT MOUNTING HEIGHT IN FIELD.
- 3. MAINTAIN MINIMUM OF 8'-6" FROM GROUND LEVEL TO BOTTOM OF PROPOSED SHROUD.
- MAINTAIN MINIMUM OF 42" FROM TOP COMMUNICATION ATTACHMENT TO BOTTOM SECONDARY POWER ATTACHMENT.
- MAINTAIN MINIMUM OF 48" CLEARANCE IN ANY DIRECTION FROM ANTENNA AND MOUNTING BRACKET TO NEAREST SECONDARY POWER CONNECTION.
- 6. MAINTAIN MINIMUM OF 12" FROM TOP COMMUNICATIONS LINE TO ANY ADDITIONAL COMMUNICATIONS LINE.
- 7. MAINTAIN MINIMUM OF 5' FROM GROUND LEVEL TO METER LOCATION.
- 8. MAINTAIN MINIMUM OF 6' CLEARANCE IN ANY DIRECTION FROM ANTENNA AND MOUNTING BRACKET TO NEAREST PRIMARY POWER CONNECTION.
- 9. EQUIPMENT TO BE INSTALLED ON OPPOSITE SIDE OF TRAFFIC FLOW.
- 10. POWER SUPPLY & WEATHERHEAD SHOULD BE INSTALLED ON THE SAME SIDE OF THE POLE WITH THE SECONDARY(S) AND COMMUNICATION CABLE(S) TO ACCOMMODATE CLIMBING OF THE POLE.



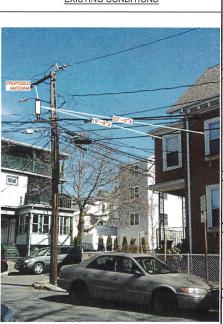
NOTE: NO INSTALLATION SHALL BE PLACED LESS THAN 15 FEET FROM A RESIDENCE'S WINDOW, DOOR OPENING, PORCH, OR BALCONY.

ATTACHMENT HEIGHTS, ANTENNA AND EQUIPMENT LOCATIONS PENDING MAKE-READY AND STRUCTURAL ANALYSIS





EXISTING CONDITIONS





NB+C ENGINEERING SERVICES, LLC.



NE-MA-BSTN3N01-03335 TMO ID: NE3206BA_31LAB 10 RADCLIFFE ROAD SOMERVILLE, MA 02145 MIDDLESEX COUNTY

	<u> </u>	REVISIONS				
	\parallel		1			
DESIGN RECORD	5	03/19/20	15' COMPLIANCE ADDED	DRG		
H H	4	01/28/20	MOUNT REVISED	DRG		
25	3	09/23/19	REVISED	NSB		
DES	2	08/06/19	STAMP ADDED	CWE		
	1	05/15/19	FOC REVISED	NSB		
	0	04/12/19	PRELIMINARY	NSB		
	REV	DATE	DESCRIPTION	BY		

DEVISIONS

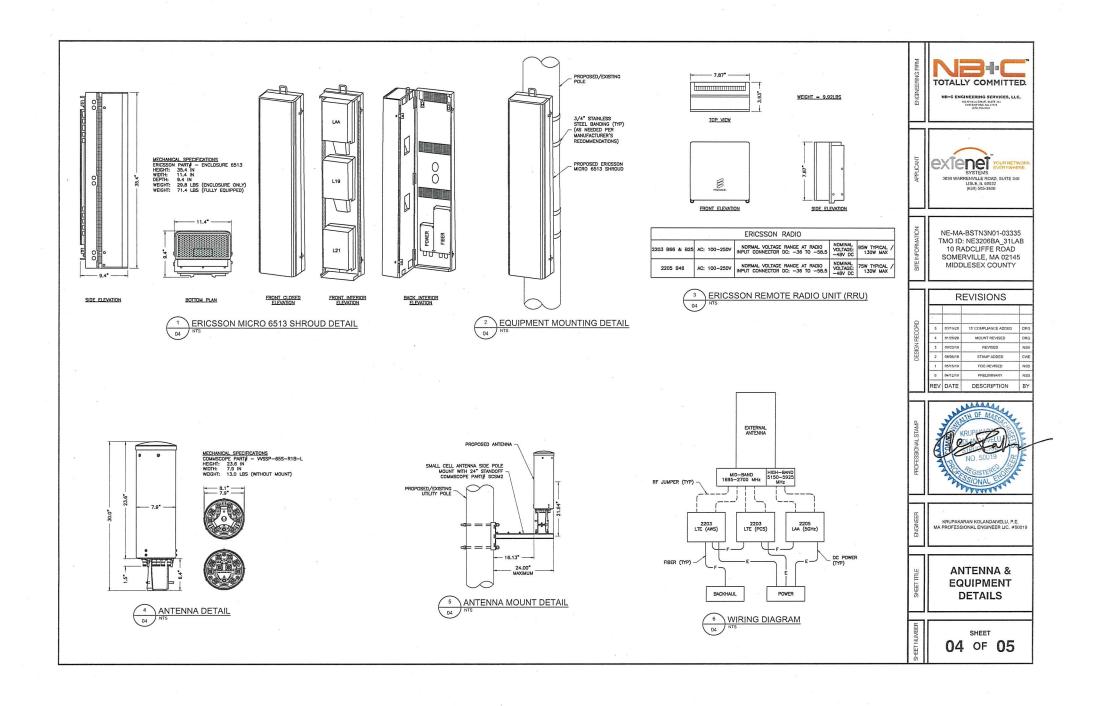


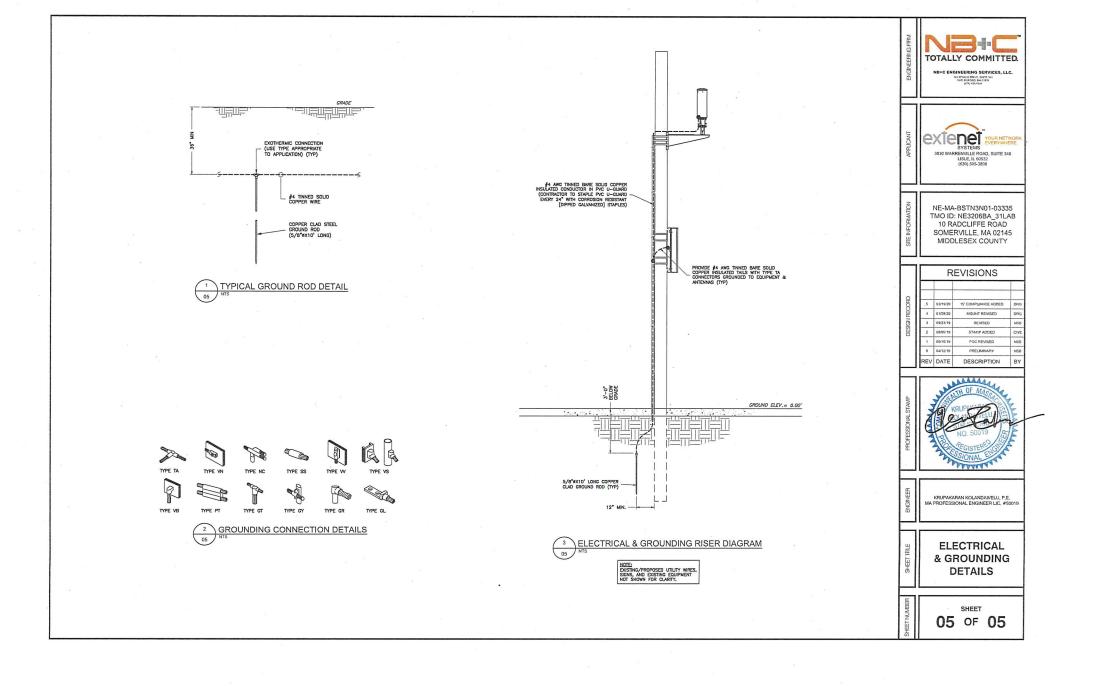
KRUPAKARAN KOLANDAIVELU, P.E. MA PROFESSIONAL ENGINEER LIC. #50019

ELEVATION

SHEET 03 OF 05

15' COMPLIANCE





10 Radcliffe Road

List of Abutters for Grant of Location

Assessor Parcel	Property Address	Abutter Name	Abutter Mailing Address
61 C 1	10 RADCLIFFE RD	KISSAS ASPASIA FOR	10 RADCLIFFE RD
	SOMERVILLE, MA 02145	LIFE	SOMERVILLE, MA 02145
	,		
61_B_5	18 JAMES ST	NASCIMENTO	18 JAMES ST
•	SOMERVILLE, MA 02145	ROBSON P &	SOMERVILLE, MA 02145
		ELEANAIDE	
61_B_4	20 JAMES ST	SOARES PEDRO P &	20 JAMES ST
	SOMERVILLE, MA 02145	GILBERTA T FOR LIFE	SOMERVILLE, MA 02145
•	·		
71-E-20-1	9 RADCLIFFE RD., #1	LINDA & ALANA	9 RADCLIFFE RD., #1
-	SOMERVILLE, MA 02145	FOLSOM	SOMERVILLE, MA 02145
. *			
71-E-20-2	9 RADCLIFFE RD., #2	JOVIE DAGULPO &	9 RADCLIFFE RD., #2
-	SOMERVILLE, MA 02145	KYLE CONROY	SOMERVILLE, MA 02145
71-E-20-3	9 RADCLIFFE RD., #3	ANATOLIY Y. KATS	9 RADCLIFFE RD., #3
	SOMERVILLE, MA 02145		SOMERVILLE, MA 02145
	` '		

Abutting Properties for 10 RADCLIFFE RD SOMERVILLE, MA 61/ C/ 1/ / (50 Feet)

Location: 61/ C/ 2/ / 6 RADCLIFFE RD Owner: MAGIMBI CONSTANTINOS & HARRIET 6 RADCLIFFE RD SOMERVILLE, MA 02145 Location: 61/ C/ 17/ / 15 JAMES ST Owner: MOURA LUCIA & JORGE TRUSTEES MOURA FAMILY TRUST 15 JAMES ST SOMERVILLE, MA 02145