



CITY OF SOMERVILLE

Commonwealth of Massachusetts

93 Highland Avenue

Somerville, MA 02143

(617) 625-6600

BUSINESS LICENSE APPLICATION - Small Wireless Facility

File #: 19-014816

License #: BL19-000085

Address: 546 BROADWAY

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 Lehy, 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: Installation of a small cell wireless facility in the public right-of-way. The facility will improve wireless communications services for residents, businesses, and visitors in the vicinity.

Provide the detailed description of the work that should appear on the License: Install a small cell wireless facility on a replacement cobra style light pole of the same height, utilizing a steel "look alike" pole painted to match the existing concrete pole. The principal elements of the proposed facility are an antenna housed in a 24" long, 10" diameter shroud at the top of the pole and three radios in a shroud mounted on the pole approximately 14' 6" +/- above the ground. The proposed replacement pole fully accommodates the same type of light fixture, to be installed and made operational as part of this proposal. It is structurally stronger than the existing pole and will be installed in the same location.

of installations on existing poles: 1

of installations on new poles: 0

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

John Power, Approved

Mark Lawhorne, Approved

John J. Long, Approved

CRAN ID / EXTENET ID: CRAN_RCTB_2HA4_041/NE-MA-BSTBSC01-00041

LATITUDE / LONGITUDE:
42.398328° / -71.107695°

SITE ADDRESS:
546 BROADWAY

CITY, STATE, ZIP:
SOMERVILLE, MA 02145

CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
72 HOURS NOTICE REQUIRED.
ENTER 1-888-DIG-SAFE



NOTE:
GENERAL CONTRACTOR IS REQUIRED TO CROSS CHECK COORDINATES, EXHIBIT PHOTO, AERIAL PHOTO
AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND. CONCERNS OR
QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO ASSIGNED EXTENET PROJECT MANAGER.

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN
HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED
FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT
IN ANY CHANGES TO THE EXISTING LANDSCAPE OR TRASH
DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE.

SITE INFORMATION

CRAN ID:	CRAN_RCTB_2HA4_041
EXTENET NODE ID:	NE-MA-BSTBSC01-00041
LATITUDE:	42.398328°
LONGITUDE:	-71.107695°
SITE ADDRESS:	546 BROADWAY
CITY, STATE ZIP:	SOMERVILLE, MA 02145
COUNTY:	MIDDLESEX
JURISDICTION:	CITY OF SOMERVILLE
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	EXTENET SYSTEMS 876 HAMMOND ST CHESTNUT HILL, MA 02467 (617) 232-4154

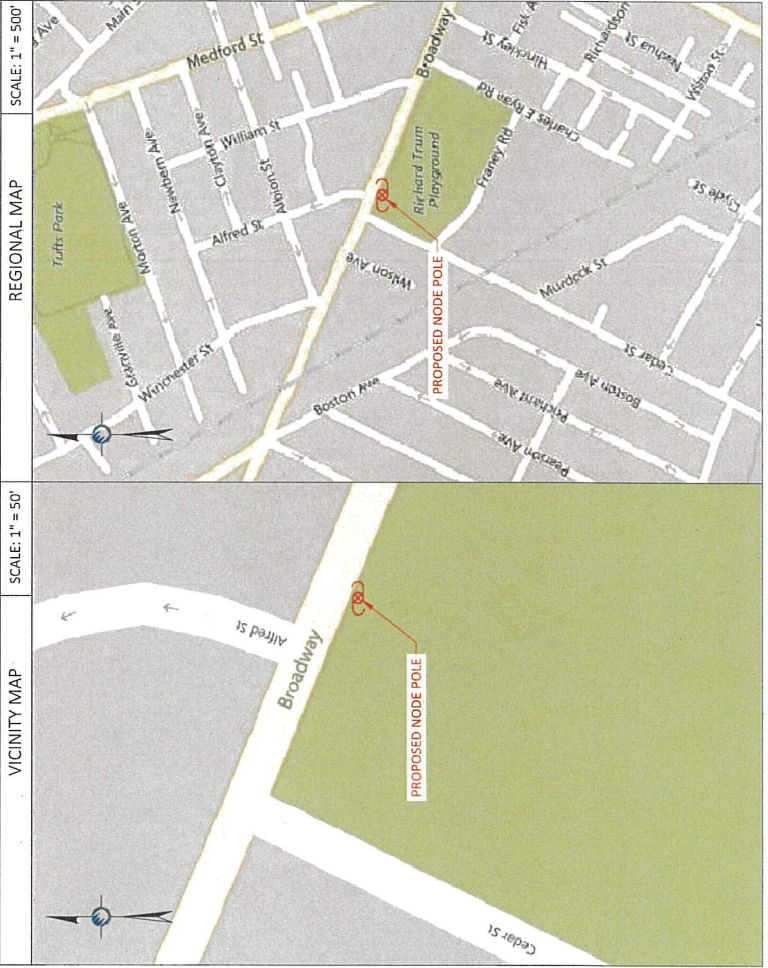
ENGINEER

RICK ANGELINI
3030 WARRENVILLE RD
SUITE 340
LISLE, IL 60532
NOC: (866) 892-5327

DO NOT SCALE DRAWINGS

CONTRACTORS SHALL VERIFY ALL PLANS, (EX.) DIMENSIONS &
FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY
NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE
RESPONSIBLE FOR SAME.

LOCATION MAPS



PROJECT DESCRIPTION

INVOLVING INSTALLMENT:
THESE PLANS REPRESENT A PORTION OF A PROPOSED SMALL
CELL BUILD INVOLVING THE INSTALLMENT OF AN ANTENNA
AND RADIO EQUIPMENT ON AN EXISTING WOODEN UTILITY
OR REPLACEMENT METAL STREETLIGHT POLE.

CODES

2019 INTERNATIONAL BUILDING CODE
NATIONAL ELECTRIC SAFETY CODE
TIA/EIA-222-G-2 OR LATEST EDITION
LOCAL BUILDING / PLANNING CODE

DRAWING INDEX

SHEET NO:	TITLE SHEET
T-1	TITLE SHEET
A-1	SITE PLAN & EXHIBIT PHOTO
A-2	ELEVATIONS
A-3	ELEVATIONS
D-1	ANTENNA DETAILS
D-2	RADIO SHROUD DETAILS
D-3	FOUNDATION DETAILS
D-4	GROUNDING & WIRING DIAGRAMS
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES

PLANS PREPARED FOR:

extenet
SYSTEMS

PLANS PREPARED BY:

UC SYNERGETIC
21 OXFORD RD
MANSFIELD, MA 02048
www.ucsynergistic.com
1-888-337-7650

LOCATION:
546 BROADWAY
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

P.E. STAMP AREA:
Paul G. Jones
PAUL G. JONES
MECHANICAL
No. 28497
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
DRAWING: 5/11/2020

ORIGINAL PLAN:
SCALE: AS NOTED
DRAWN BY: EP
PLAN ORIG. DATE: 07/25/19

REVISIONS:
REV. 1 DESCRIPTION: UPDATED LUMINAIRE ARM BL 03/26/25

SITE INFO:
LAT: 42.398328°
LONG: -71.107695°
CRAN ID: CRAN_RCTB_2HA4_041
EXTENET NODE ID: NE-MA-BSTBSC01-00041
SITE ADDRESS: 546 BROADWAY
SHEET TITLE: TITLE SHEET
SHEET NUMBER: T-1



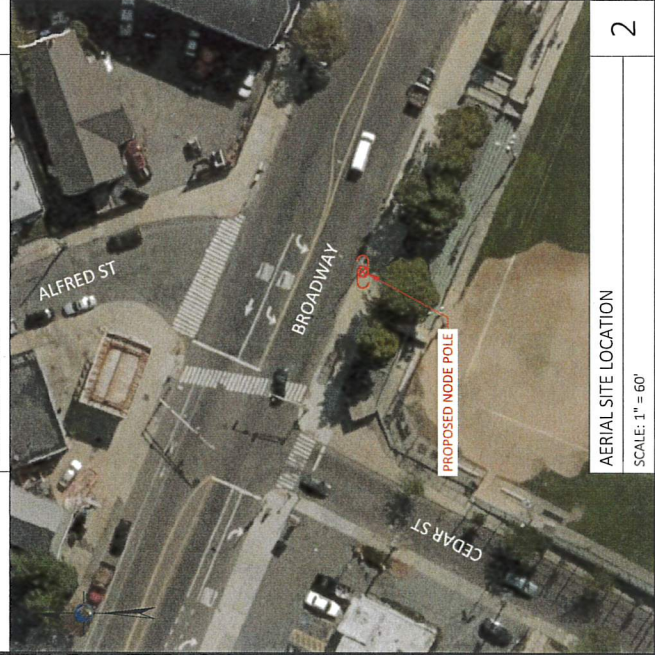
NOTE:
EXHIBIT PHOTO IS FOR
REFERENCE USE ONLY AND
SHOULD NOT BE USED FOR
CONSTRUCTION PURPOSES.

PROPOSED NODE POLE

EXHIBIT PHOTO

SCALE: NOT TO SCALE

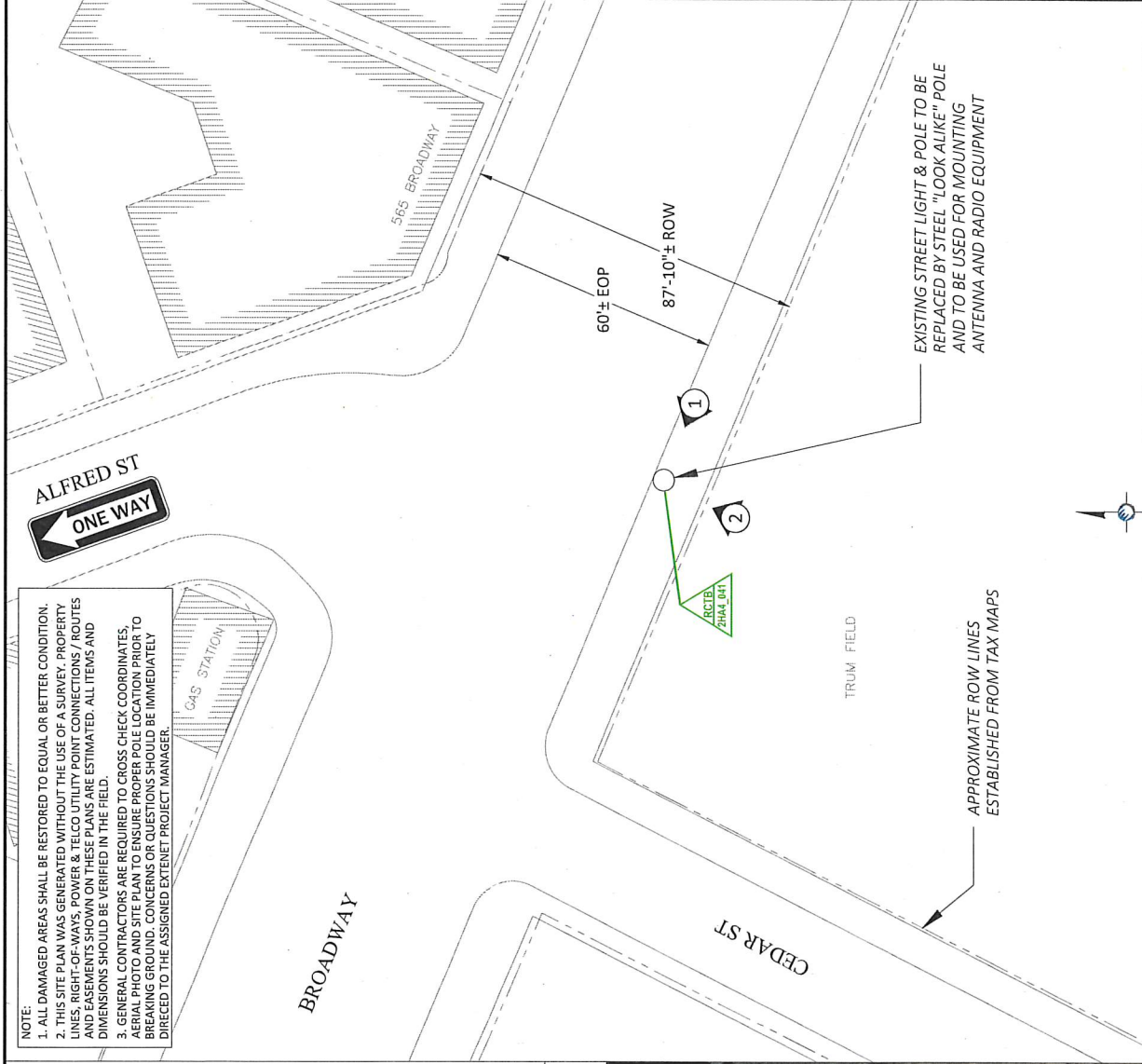
1



AERIAL SITE LOCATION

SCALE: 1" = 60'

2



ENLARGED SITE PLAN

SCALE: 1" = 30'

3

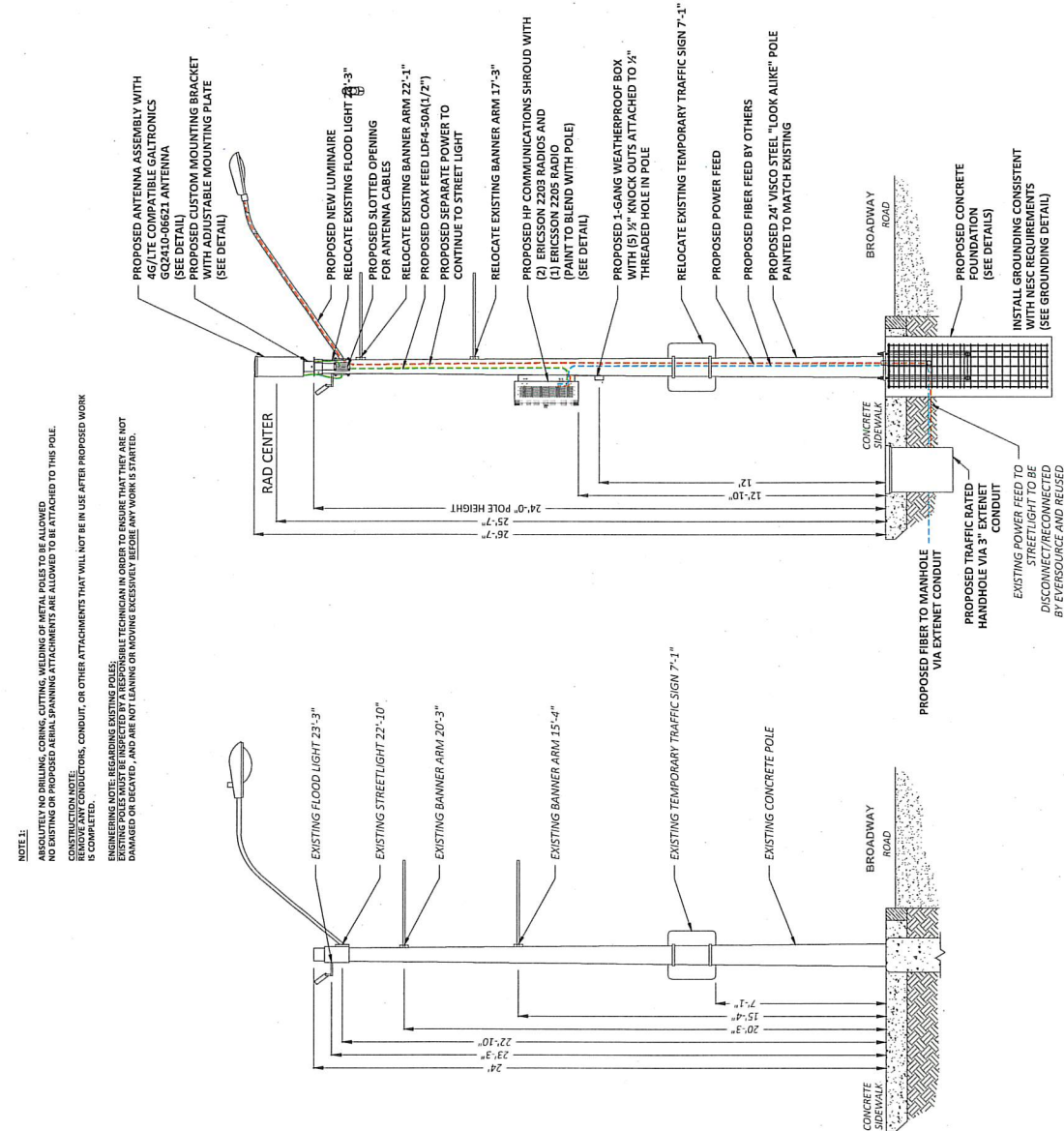
PLANS PREPARED FOR: extenet YOUR NETWORK EVERYWHERE SYSTEMS		PLANS PREPARED BY: UC SYNERGETIC 21 OXFORD RD MANSFIELD, MA 02048 508-337-7000 www.ucsynergistic.com		LOCATION: 546 BROADWAY SOMERVILLE, MA 02145 MIDDLESEX COUNTY		P.E. STAMP AREA:		DRAWING NOTES:		ORIGINAL PLAN: SCALE: AS NOTED DRAWN BY: EP PLAN ORIG. DATE: 07/25/19		REVISIONS: REV. DESCRIPTION BY DATE 1 UPDATED LUMINAIRE ARM EL 10/16/20		SITE INFO: LAT: 42.398328° LONG: -71.107695° CRAN ID: CRAN_RCTB_2HA4_041 EXTENET NODE ID: NE-MA-BSTBC01-00041 SITE ADDRESS: 546 BROADWAY SHEET TITLE: SITE PLAN & EXHIBIT PHOTO SHEET NUMBER: A-1	
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DRAWINGS NOTES:

- NOTE 1:
40' MIN. WORKER SAFETY ZONE
BETWEEN LOWEST POWER & HIGHEST
POWER ATTACHMENTS SHALL BE MAINTAINED
IN ACCORDANCE WITH NESC REGULATIONS.
- NOTE 2:
PROPOSED FIBER TO BE INSTALLED BY OTHERS.
- NOTE 3:
PROPOSED EQUIPMENT TO BE PAINTED TO BLEND
WITH POLE.
- NOTE 4:
FCC MANDATED SIGNAGE TO BE ATTACHED TO POLE.
- NOTE 5:
PROPOSED EQUIPMENT SHALL BE INSTALLED NO
HIGHER THAN 30' BELOW TELEPHONE UTILITY LINES.

NOTE 1:

ABSOLUTELY NO DRILLING, CORING, CUTTING, WELDING OF METAL POLES TO BE ALLOWED
NO EXISTING OR PROPOSED AERIAL SPANNING ATTACHMENTS ARE ALLOWED TO BE ATTACHED TO THIS POLE.
CONSTRUCTION NOTE:
REMOVE ANY CONDUCTORS, CONDUIT, OR OTHER ATTACHMENTS THAT WILL NOT BE IN USE AFTER PROPOSED WORK
IS COMPLETED.
ENGINEERING NOTE: REGARDING EXISTING POLES:
EXISTING POLES SHALL BE REMOVED BY THE INSTALLER IN ORDER TO ENSURE THAT THEY ARE NOT
DAMAGED OR DECAYED, AND ARE NOT LEANING OR MOVING EXCESSIVELY BEFORE ANY WORK IS STARTED.



1 EXISTING PROFILE - SIDE VIEW
LOOKING NORTHWEST ALONG BROADWAY

1 PROPOSED PROFILE - SIDE VIEW
LOOKING NORTHWEST ALONG BROADWAY



PLANS PREPARED FOR:



PLANS PREPARED BY:



LOCATION:
546 BROADWAY
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

P.E. STAMP AREA

DRAWING NOTES:

ORIGINAL PLAN:	AS NOTED
SCALE:	EP
DRAWN BY:	EP
PLAN ORG. DATE:	07/25/19

REV	DESCRIPTION	BY	DATE
1	UPDATED LUMINAIRE ARM	GL	03/16/20

SITE INFO:	
LAT: 42.398328°	
LONG: -71.107695°	
CRAN ID:	
CRAN_RCTB_2HAA_041	
EXTENT NODE ID:	
NE-MA-BSTBSC01-00041	
SITE ADDRESS:	
546 BROADWAY	
SHEET TITLE:	
POLE ELEVATIONS	

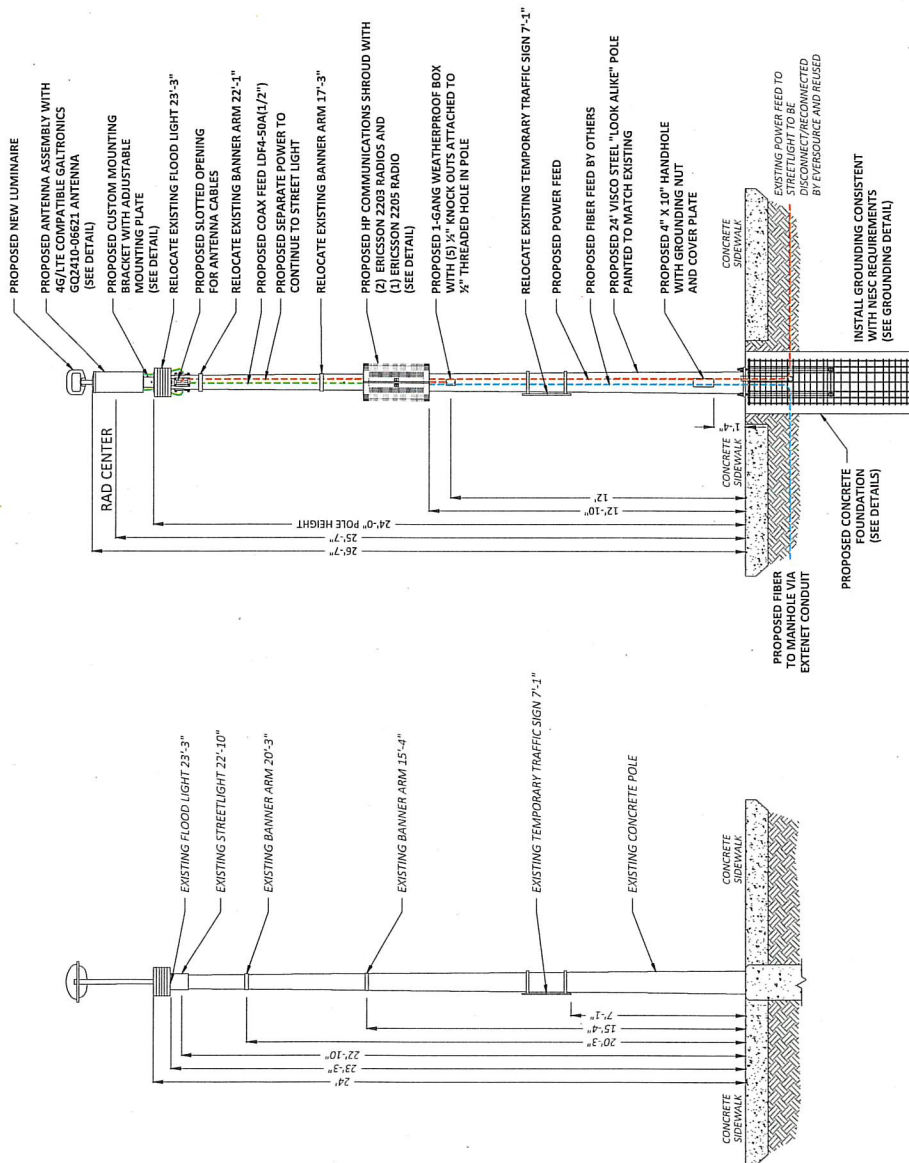
SHEET NUMBER:	
A-2	

DRAWINGS NOTES:

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DAMAGED OR DECAYED, AND ARE NOT LEANING OR MOVING EXCESSIVELY BEFORE ANY WORK IS STARTED.



② EXISTING PROFILE - REAR VIEW
LOOKING NORTHEAST TOWARD BROADWAY

② PROPOSED PROFILE - REAR VIEW
LOOKING NORTHEAST TOWARD BROADWAY



PLANS PREPARED FOR:



PLANS PREPARED BY:



21 OXFORD RD
LAWRENCE, MA 02454
www.ucsynergistic.com
1-800-337-7600

LOCATION:
546 BROADWAY
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

P.E. STAMP AREA:

DRAWING NOTES:

ORIGINAL PLAN:
SCALE:
DRAWN BY:
PLAN ORG. DATE:

REV	DESCRIPTION	BY	DATE
1	UPDATED LUMINAIRE ARM	GL	03/16/20

SITE INFO:

LAT: 42.398328°
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EXTENET NODE ID:
NE-MA-BSTSC01-00041
SITE ADDRESS:
546 BROADWAY
SHEET TITLE:
POLE ELEVATIONS

SHEET NUMBER:

A-3

D-2.

PLANS PREPARED FOR:
extenet
YOUR NETWORK
EVERYWHERE
SYSTEMS

PLANS PREPARED BY:
UC SYNERGETIC
21 OXFORD RD
MANSFIELD, MA 02048
www.ucsynergetic.com
508.383.2500

LOCATION:
546 BROADWAY
SOMERVILLE, MA 02145
MIDDLESEX COUNTY

P.L. STAMP AREA

DRAWING NOTES

ORIGINAL PLAN:
SCALE: AS NOTED
DRAWN BY: EP
PLAN ORG. DATE: 07/25/19

REVISIONS:
REV. 1 DESCRIPTION BY DATE
1 UPDATED LUMINAIRE AREA GL 12/16/20

SITE INFO:
LAT: 42.398328°
LONG: -71.07695°
CRAN: RCTB_2HA4_041
EXTENT NODE ID:
NE-MA-B57BSC01-00041
SITE ADDRESS:
546 BROADWAY
SHEET TITLE:
FOUNDATION DETAILS
SHEET NUMBER:
D-3

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND UTILITIES PRIOR TO EXCAVATING MATERIALS.
- CONTRACTOR SHALL INPECT AND REMOVE ALL DEBRIS FROM BOTTOM OF EXCAVATION.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO, AND AFTER, EXCAVATION. IF ANY DISCREPANCIES ARE FOUND, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND STOP WORK.
- CONTRACTOR SHALL USE AND PROVIDE DEFORMED REINFORCING BARS CONFORMING TO ASTM A615 GR. 60 (60,000 PSI MIN. YIELD). CONTRACTOR SHALL USE SETBACK WIRE TO HOLD REINFORCING BARS TOGETHER IF DEFORMED BARS ARE NOT PROVIDED. SUBSTITUTE USING A193 GR. 90.
- CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL USE MINIMUM PER CIRC. YARD, 3" MINIMUM AND 7" MAXIMUM CONCRETE SLUMP.
- CONCRETE SHALL BE CONSOLIDATED USING VIBRATORY METHODS. CONTRACTOR SHALL PROVIDE FORMATION WITH VIBRATORS. THIS MAY BE ACCOMPLISHED BY TOUCHING REBAR CASE WITH VIBRATOR.
- CONTRACTOR SHOULD ANTICIPATE THE USE OF A FULL LENGTH REINFORCING WIRE TO STABILIZE THE EXCAVATION. THE CASING SHALL BE REMOVED AFTER THE CONCRETE IS PLACED. THE CASING SHALL BE REMOVED IN A MANNER THAT DOES NOT CAUSE DAMAGE TO THE EXCAVATION. METHODS TO MINIMIZE SEGREGATION OF CONCRETE AND AGGREGATE SHALL NOT BE USED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONCRETE SHALL NOT FREE FALL MORE THAN 6 FT. CONCRETE MAY BE PLACED IN LIFTS TO THE DEPTH INDICATED, AND THE ABOVE GRADE PORTION SHALL BE FORMED. THE REBAR CASE, ANCHOR BOLTS, AND CONCRETE SHALL BE REMOVED WITHIN 24 HOURS OF COMPLETING THE CONCRETE POUR.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVERAGE OVER REINFORCING BARS TO MINIMIZE CORROSION. CONTRACTOR SHALL USE A PORTABLE COVER METER TO VERIFY REBAR TOP OF FOOTING SHALL BE MINIMUM LEVEL AND SMOOTH.
- DRILLED PER FOUNDATION DESIGN PER 20080212 (BA, TABLE 1006.2, CLASS 1) WITH 1" DIA. DRILL BIT.
- DO NOT EXCEED THE VOLUME OF CONCRETE REQUIRED FOR THIS FOUNDATION IS APPROXIMATELY 1.1 CU. YDS.

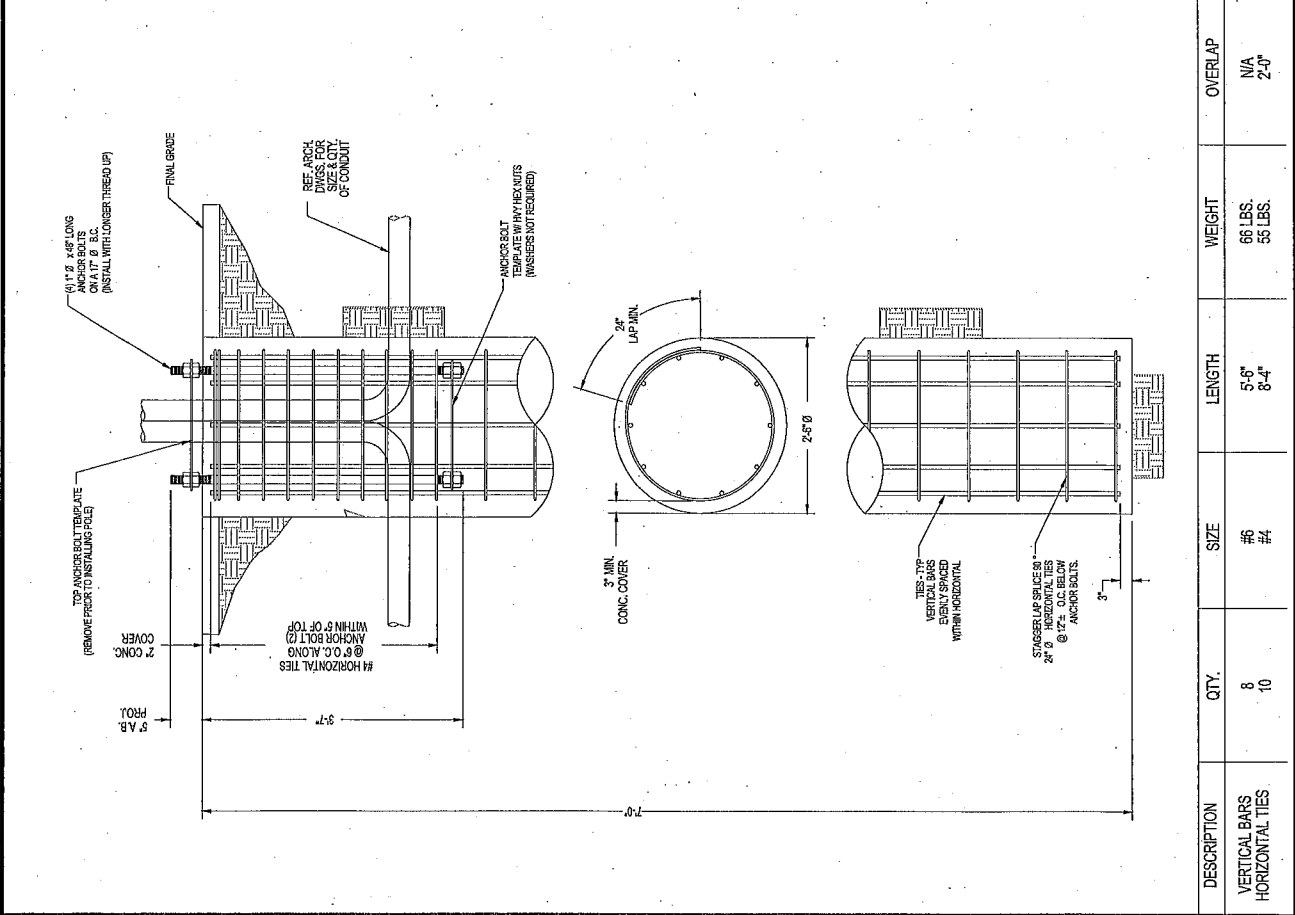
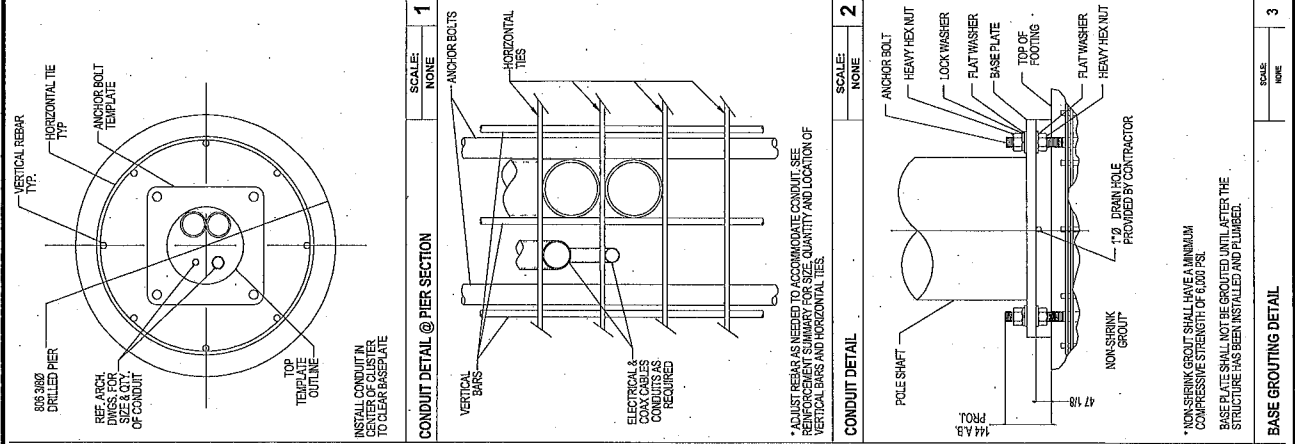
FACTORED BASE REACTIONS

MOMENT	=	30.9 K-IPS
SHEAR	=	246 KIPS
VERTICAL	=	1.57 KIPS

SPECIAL INSPECTIONS

SPECIAL INSPECTION: THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 20080212 (BA, SECTION 7104)

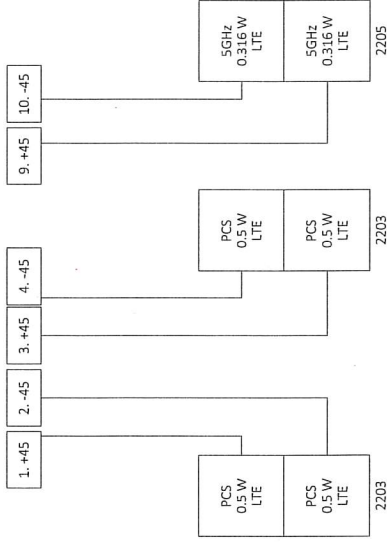
ITEM	DESCRIPTION	INSPECTION BY	MATERIAL
1	PIER EXCAVATION LATERAL BEARING CAPACITY	SOILS ENGINEER	300 PSF/FT LATERAL
2	PER CONSTRUCTION WORKMANSHIP, BAR SIZES AND INSTALLATION	SPECIAL INSPECTOR	ASTM A615 GR. 60
3	ANCHOR BOLTS BOLT SIZE AND LENGTHS INSTALLATION	SPECIAL INSPECTOR	ASTM F1554 GR. 36
4	CONCRETE TEST SPECIMENS PLACEMENT OF CONCRETE	SPECIAL INSPECTOR	FC-4000 PSI TYPE I/CEMENT



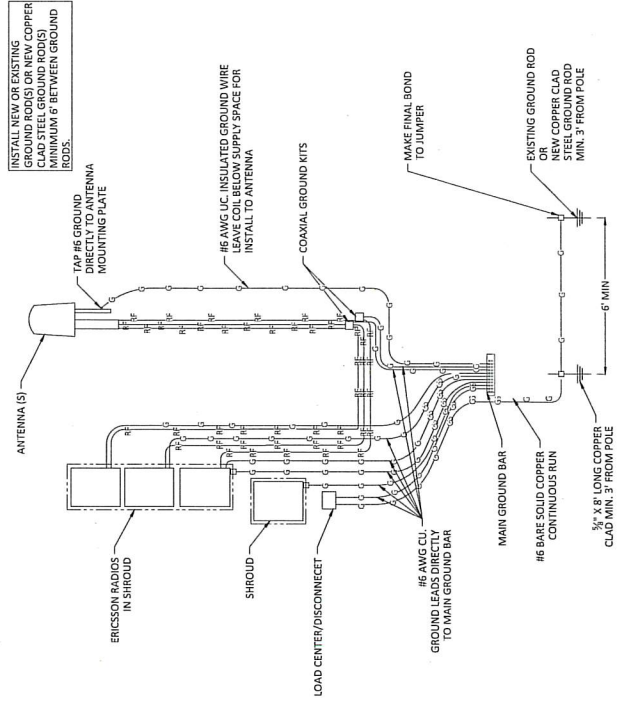


EXISTING POLE
SCALE: NOT TO SCALE

GALTRONICS GQ2410-06621 ANTENNA



WIRING DIAGRAM
SCALE: NOT TO SCALE



GROUNDING DIAGRAM
SCALE: NOT TO SCALE

PLANS PREPARED FOR:	PLANS PREPARED BY:	LOCATION:	P.E. STAMP AREA:	DRAWING NOTES:	ORIGINAL PLAN:	REVISIONS:	SITE INFO:	SHEET NUMBER:
extenet OUR NETWORKS EVERWHERE	UC SYNERGETIC 21 OFFORD RD MAINSFIELD, MA 02048 www.ucsynerg.com 1-888-337-7600	546 BROADWAY SONERVILLE, MA 02145 MIDDLESEX COUNTY			SCALE: AS NOTED DRAWN BY: EP PLAN ORIG. DATE: 07/25/19	REV. 1 DESCRIPTION: UPDATED LUMINAIRE ASH BY DATE EL 03/10/25	LAT: 42.398328° LONG: -71.107695° CRAN ID: CRAN_RCTB_2HA4_041 EXTENET NODE ID: NE-MA-BSTBC01-00041 SITE ADDRESS: 546 BROADWAY SHEET TITLE: GROUNDING & WIRING DIAGRAMS	D-4

GN-1

10

1

