



EXISTING PHOTOGRAPHIC VIEW



PROPOSED PHOTOGRAPHIC SIMULATION

PLANS PREPARED FOR:
extenet YOUR NETWORK EVERYWHERE
 SYSTEMS

PLANS PREPARED BY:
PIKE
 TELECOM
 21 Oxford Rd
 Mansfield, MA 02048
 www.piketelecom.org
 1-508-337-7600

LOCATION:
 425 NEWBURY ST
 BOSTON, MA 02116
 MIDDLESEX COUNTY

P.E. STAMP AREA:

DRAWING NOTES:

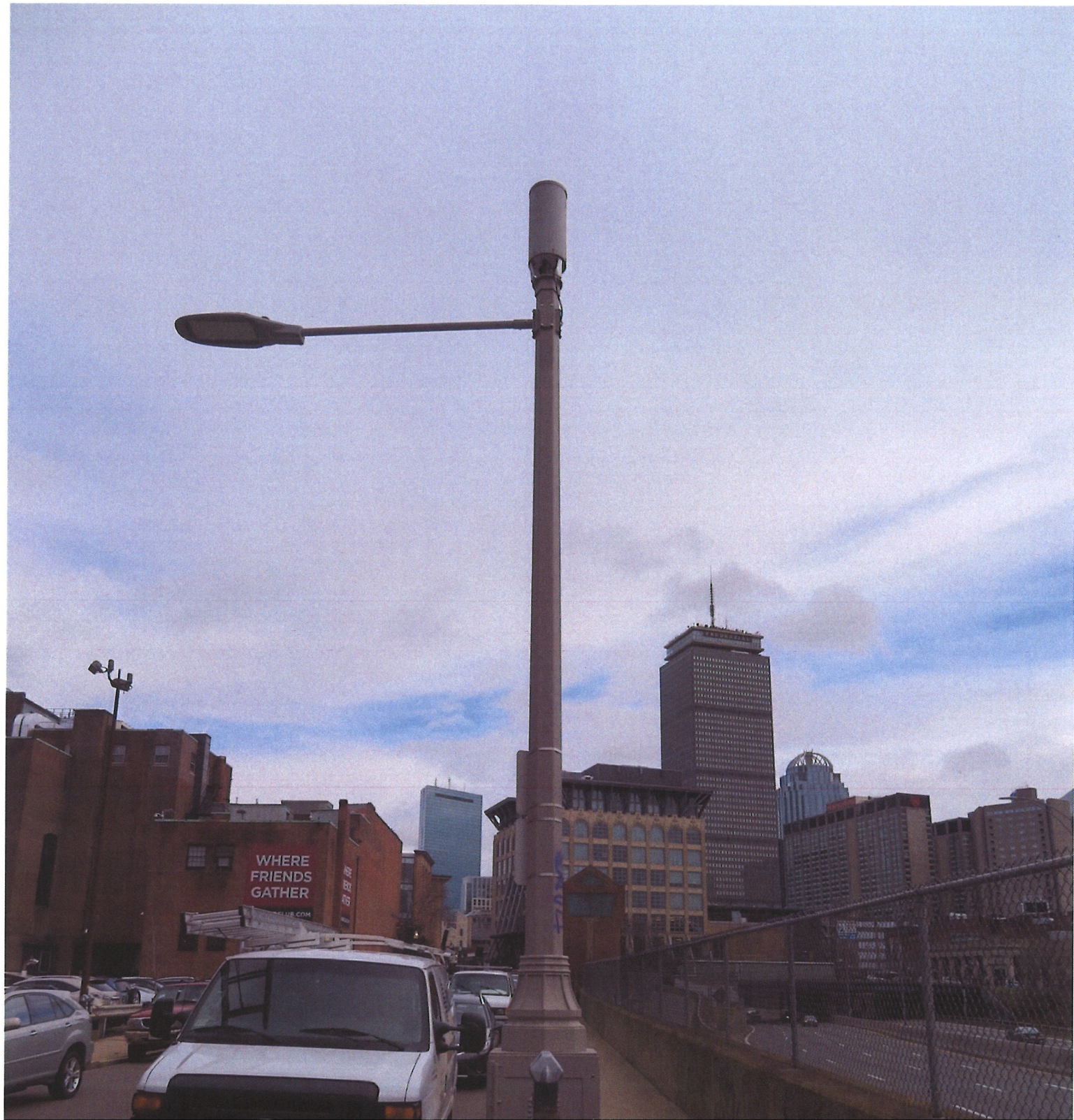
ORIGINAL PLAN:
 SCALE: AS NOTED
 DRAWN BY: MS
 PLAN ORIG. DATE: 12/10/20

REVISIONS:

REV	DESCRIPTION	BY	DATE

SITE INFO:
 LAT: 42.348124°
 LONG: -71.090054°
 AT&T ID:
 EXTENET NODE ID:
 BBX-019A
 SITE ADDRESS:
 425 NEWBURY ST
 SHEET TITLE:
 PHOTOGRAPHIC SIMULATION

SHEET NUMBER:
 1



EXTENET ID:
BBX-019A

LATITUDE / LONGITUDE:
42.348124° / -71.090054°

SITE ADDRESS:
425 NEWBURY ST

CITY, STATE, ZIP:
BOSTON, MA 02116



**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 SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE.

SITE INFORMATION

EXTENET NODE ID:	BBX-019A
LATITUDE:	42.348124°
LONGITUDE:	-71.090054°
SITE ADDRESS:	425 NEWBURY ST
CITY, STATE ZIP:	BOSTON, MA 02116
COUNTY:	SUFFOLK
JURISDICTION:	CITY OF BOSTON
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	EXTENET SYSTEMS 876 HAMMOND ST CHESTNUT HILL, MA 02467 (617) 232-4154

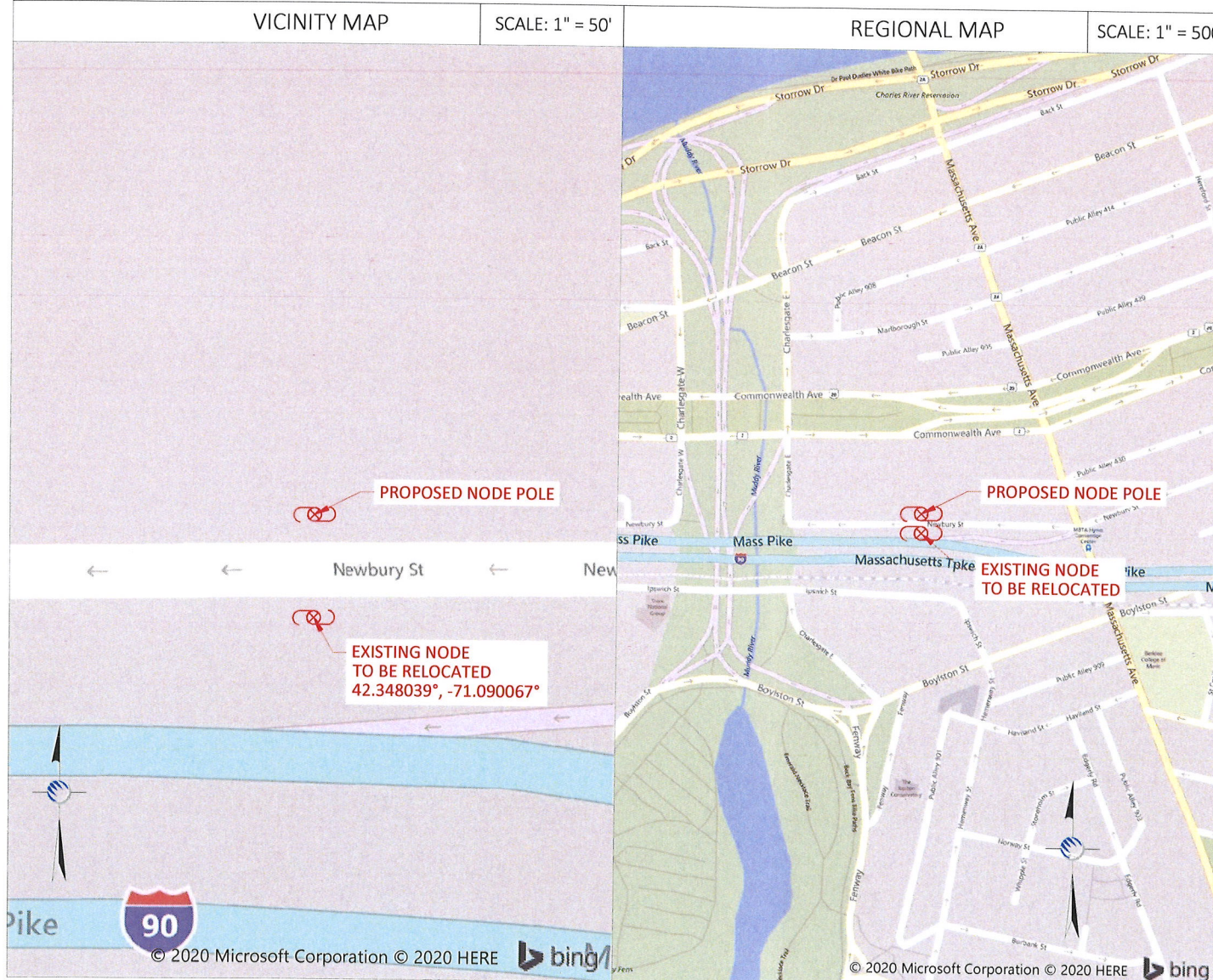
ENGINEER

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:	SHEET TITLE
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:

PLANS PREPARED BY:

21 Oxford Rd
Mansfield, MA 02048
www.piketelecom.org
1-508-337-7600

LOCATION:

425 NEWBURY ST
BOSTON, MA 02116
SUFFOLK COUNTY

P.E. STAMP AREA:

DRAWING NOTES:

ORIGINAL PLAN:
SCALE: AS NOTED
DRAWN BY: RD
PLAN ORIG. DATE: 9/21/20

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TITLE SHEET

SHEET NUMBER:
T-1

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

EXISTING NODE POLE
TO BE RELOCATED

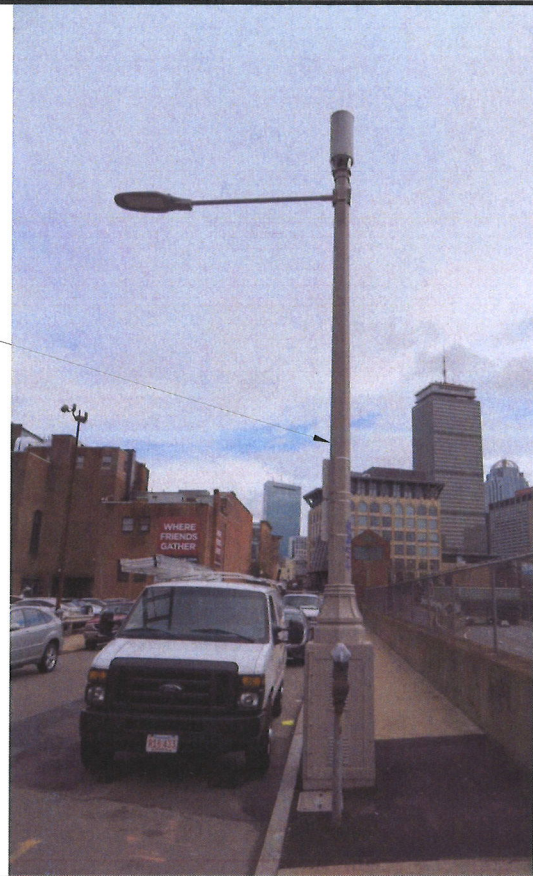


EXHIBIT PHOTO

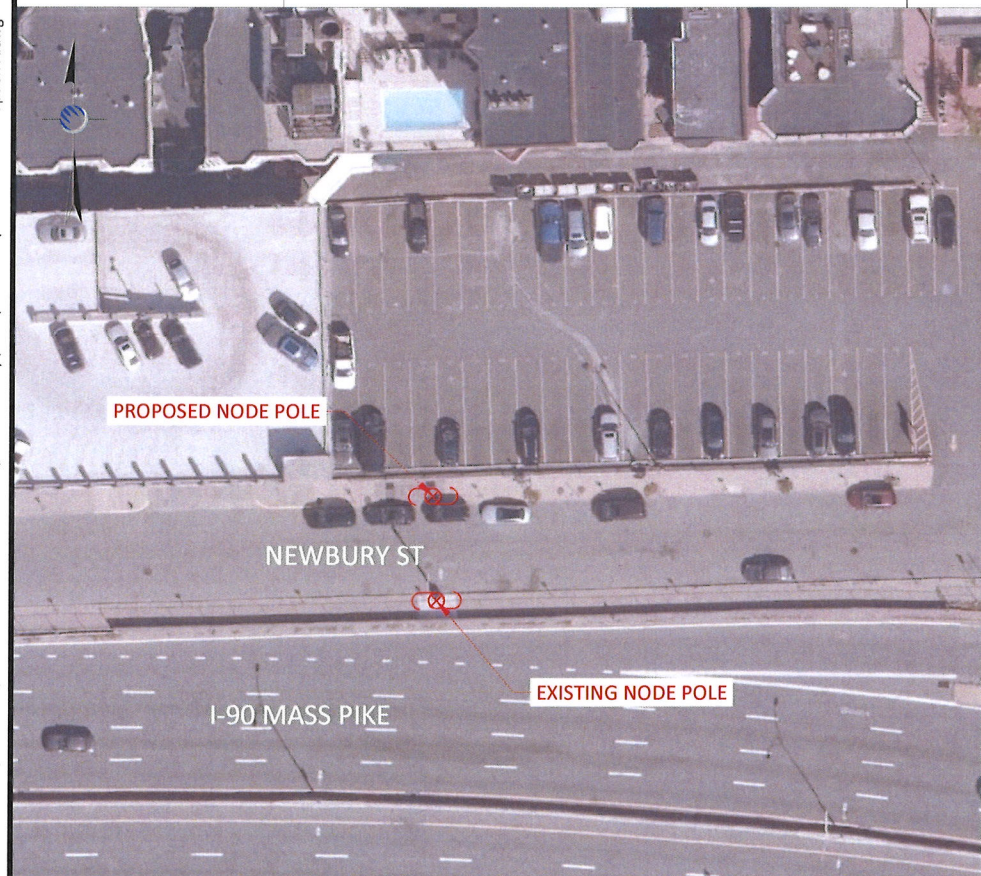
SCALE: NOT TO SCALE

1

NOTE:
1. ALL DAMAGED AREAS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
2. THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS / ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.
3. GENERAL CONTRACTORS ARE REQUIRED TO CROSS CHECK COORDINATES, AERIAL PHOTO AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND. CONCERNS OR QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO THE ASSIGNED EXTENET PROJECT MANAGER.

PROPOSED STEEL "LOOK ALIKE"
POLE TO BE USED FOR
MOUNTING ANTENNA AND
RADIO EQUIPMENT
42.348124°, -71.090054°

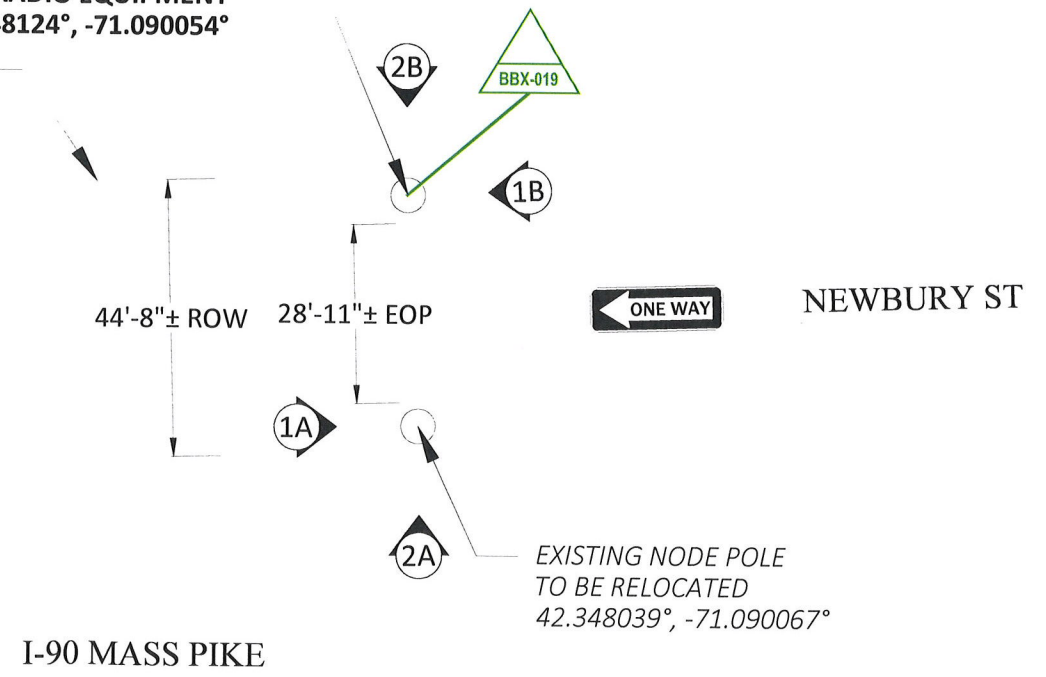
APPROXIMATE ROW LINES
ESTABLISHED FROM TAX MAPS



AERIAL SITE LOCATION

SCALE: 1" = 60'

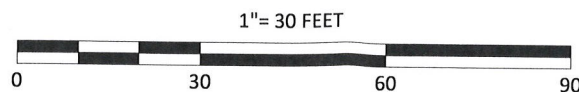
2



I-90 MASS PIKE

I-90 MASS PIKE

NEWBURY ST



ENLARGED SITE PLAN

SCALE: 1" = 30'

3

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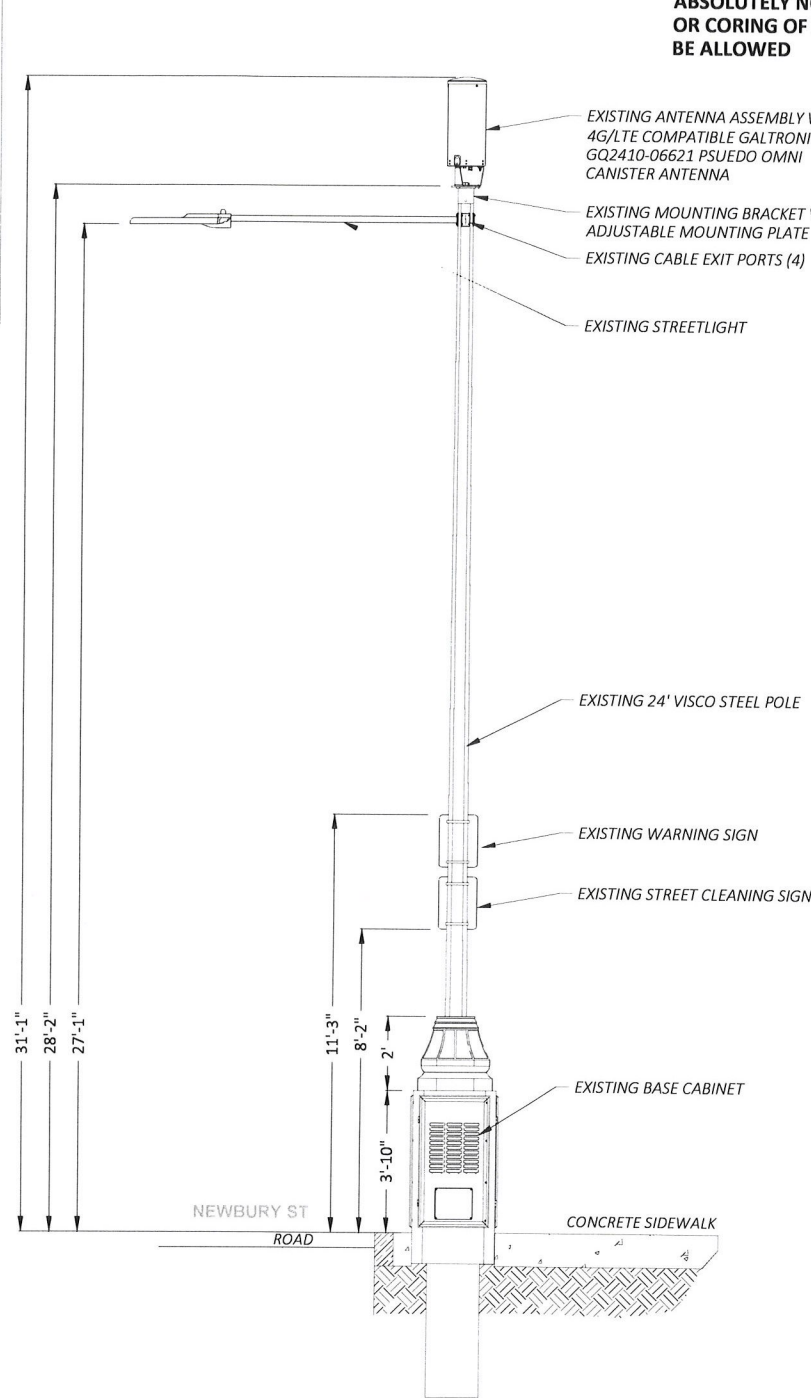
SHEET TITLE:
SITE PLAN & EXHIBIT PHOTO

SHEET NUMBER:
A-1

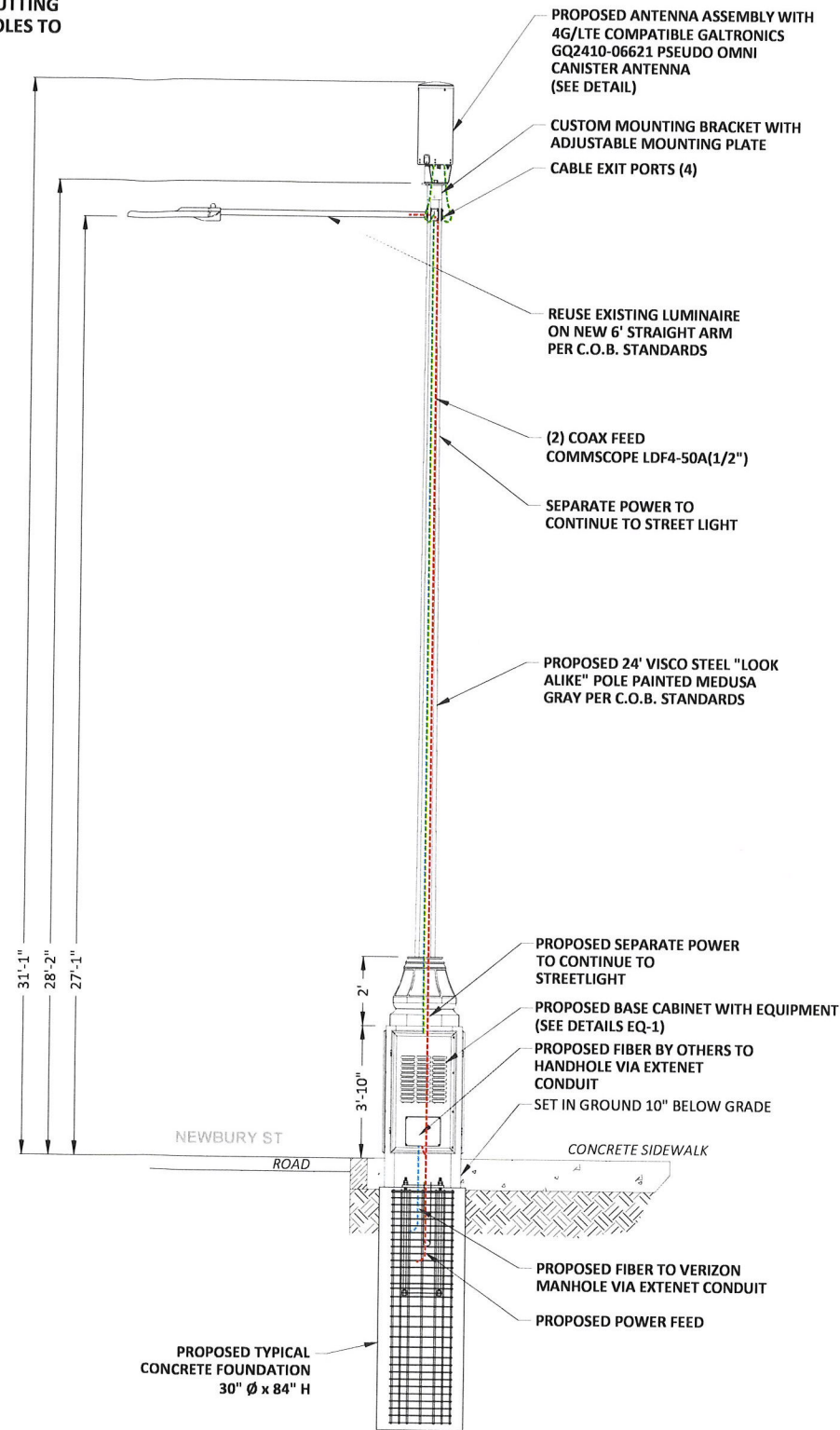
DRAWINGS NOTES:

- NOTE 1:
40" MIN. WORKER SAFETY ZONE BETWEEN LOWEST POWER & HIGHEST COMMUNICATIONS CABLE 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.

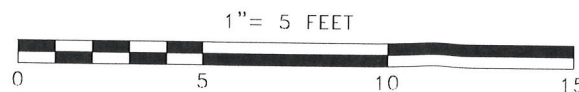
NOTE:
PLACE NEW 24'-0" STEEL "LOOK ALIKE" POLE
ABSOLUTELY NO FIELD CUTTING OR CORING OF METAL POLES TO BE ALLOWED



1A EXISTING PROFILE - SIDE VIEW
LOOKING EAST ALONG DARTMOUTH ST
TO BE REMOVED



1B PROPOSED PROFILE - SIDE VIEW
LOOKING WEST ALONG DARTMOUTH ST



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SHEET TITLE:
POLE ELEVATIONS

SHEET NUMBER:

A-2

DRAWINGS NOTES:

NOTE 1:
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BETWEEN LOWEST POWER & HIGHEST
COMMUNICATIONS CABLE
IN ACCORDANCE WITH NESC REGULATIONS.

NOTE 2:
PROPOSED FIBER TO BE INSTALLED BY OTHERS.

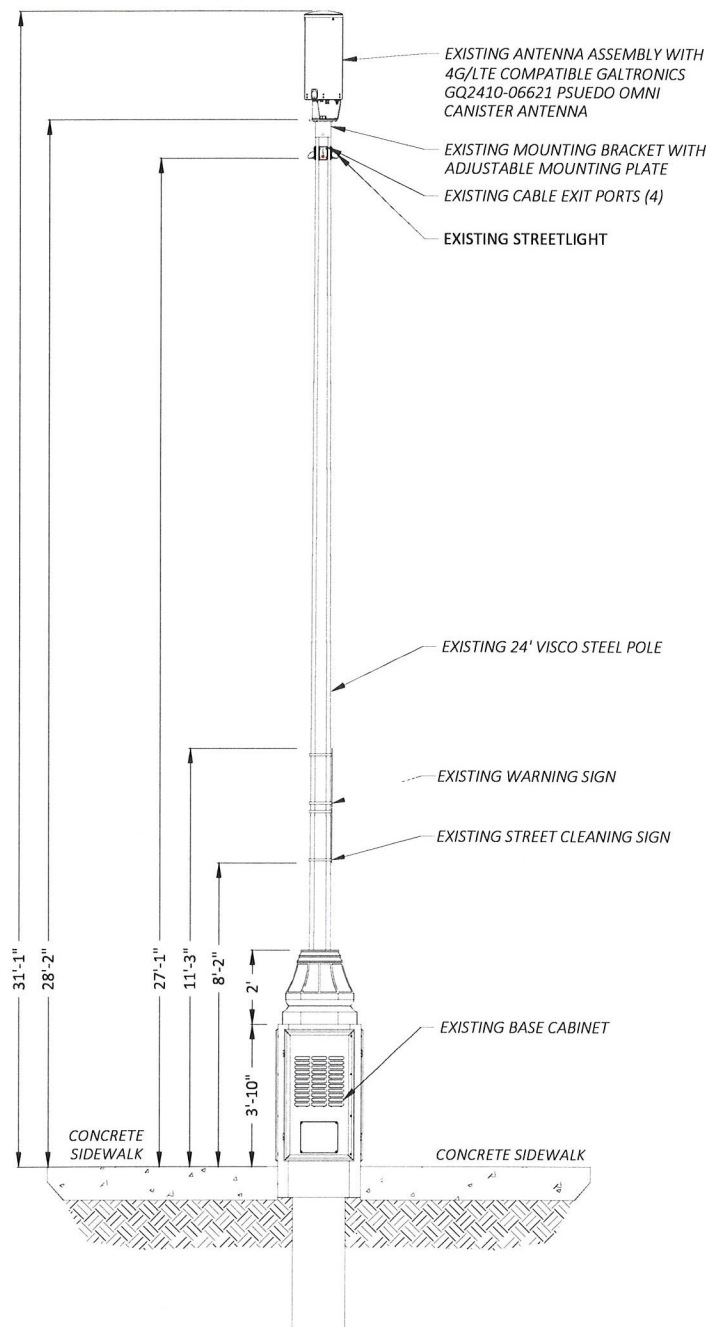
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PROPOSED EQUIPMENT TO BE PAINTED TO BLEND
WITH POLE.

NOTE 4:
FCC MANDATED SIGNAGE TO BE ATTACHED TO POLE.

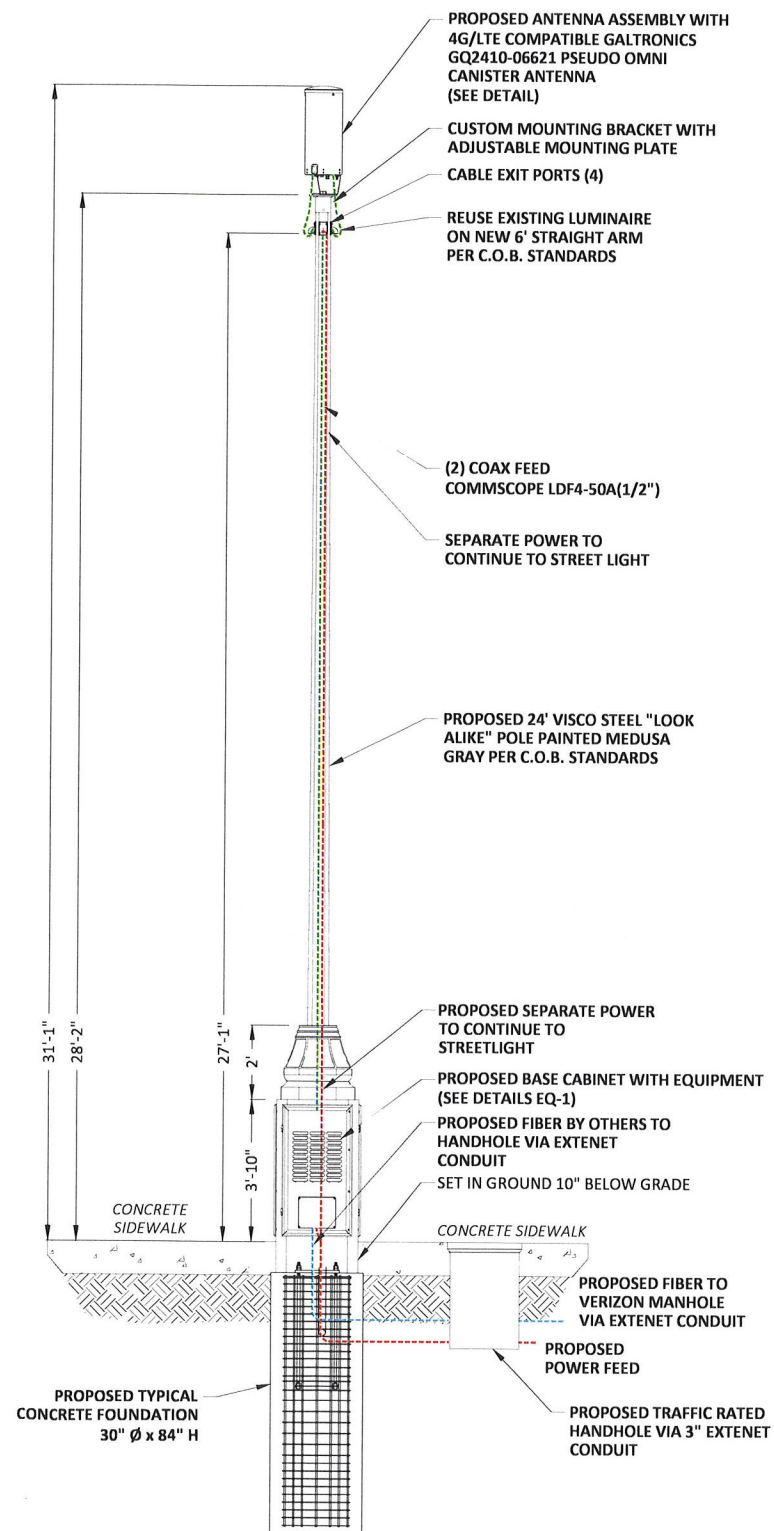
NOTE 5:
PROPOSED EQUIPMENT SHALL BE INSTALLED NO
HIGHER THAN 30" BELOW TELEPHONE UTILITY LINES.

NOTE:
PLACE NEW 24'-0" STEEL
"LOOK ALIKE" POLE

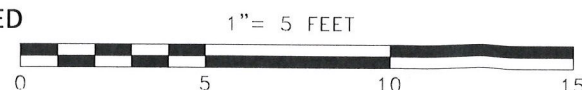
**ABSOLUTELY NO FIELD CUTTING
OR CORING OF METAL POLES TO
BE ALLOWED**



2A EXISTING PROFILE - REAR VIEW
LOOKING NORTH TOWARD DARTMOUTH ST
TO BE REMOVED



2B PROPOSED PROFILE - REAR VIEW
LOOKING SOUTH TOWARD DARTMOUTH ST



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POLE ELEVATIONS

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A-3

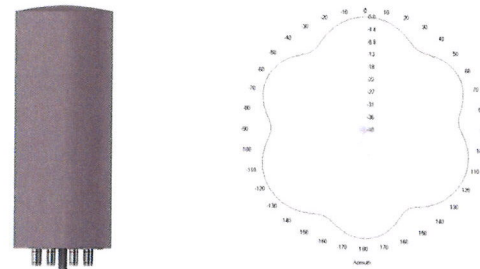


24"x 10" Pseudo Omni 10-Port Canister Antenna [1695-2360, 3550-3700 and 5150-5925 MHz]

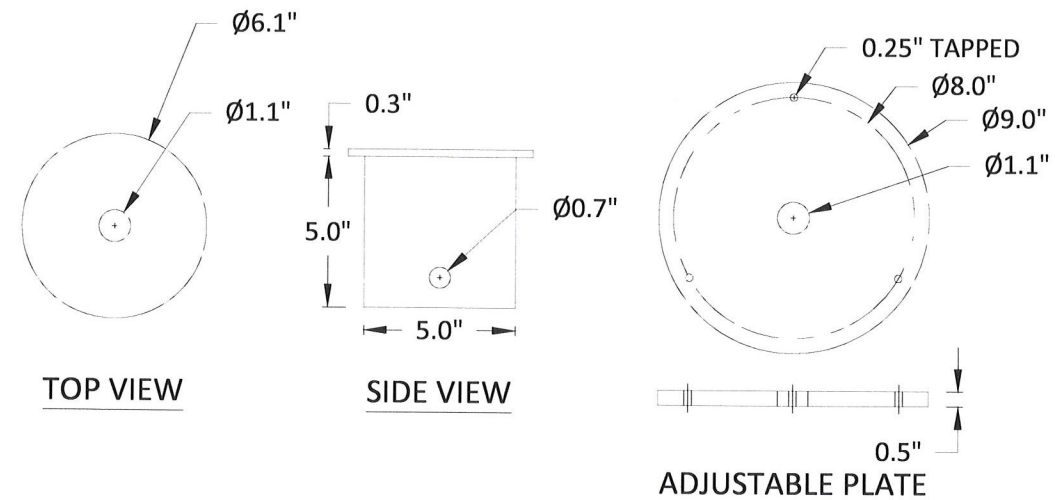
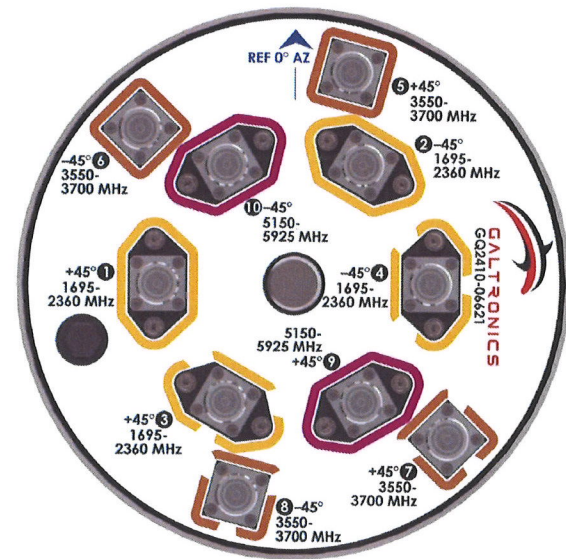
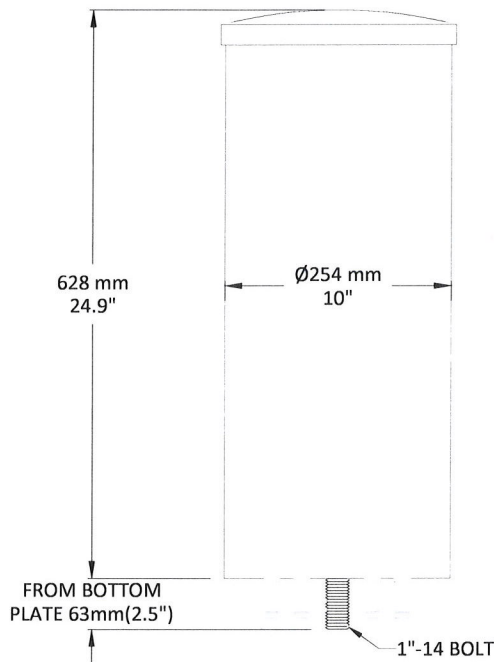
GQ2410-06621

Description:

- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells.
- 4x ports for AWS/PCS/WCS Band 1695-2360 MHz
- 4x ports for CBRS Band 3550-3700 MHz
- 2x ports for UNII Band 5150-5925 MHz*



1695-2360, 3550-3700 and 5150-5925 MHz Pseudo Omni Canister Antenna



GALTRONICS GQ2410-06621 ANTENNA	1
SCALE: NOT TO SCALE	

CUSTOM MOUNTING BRACKET	2
SCALE: NOT TO SCALE	

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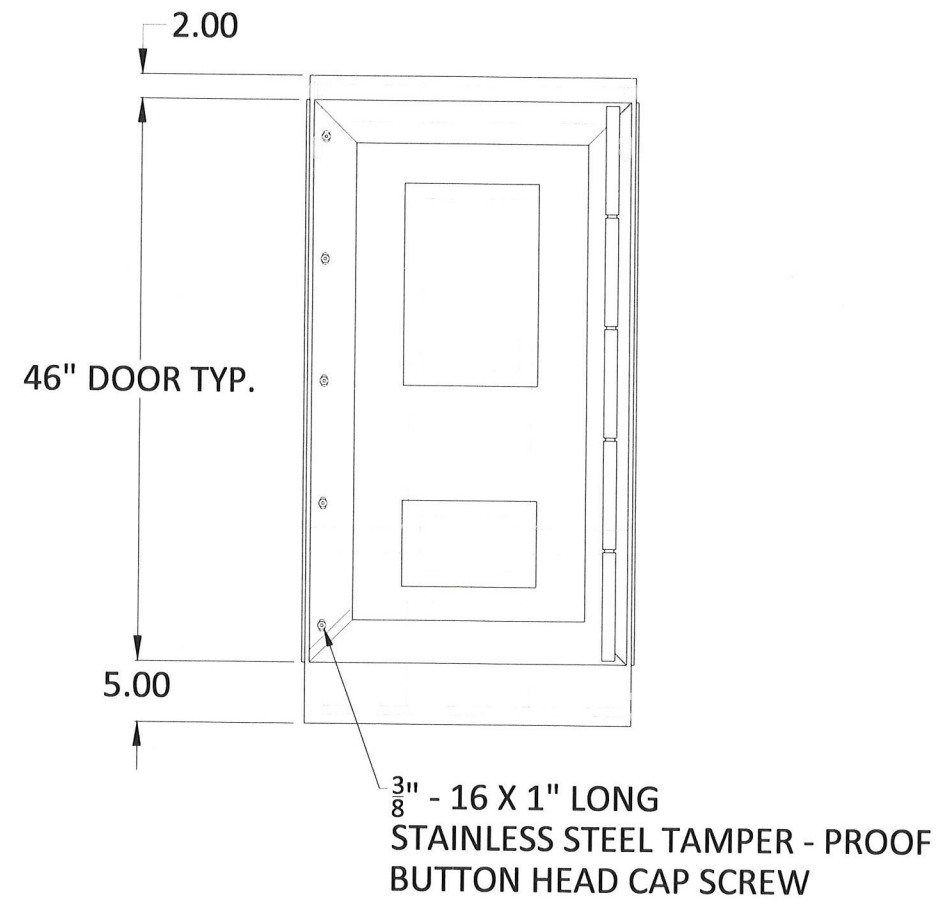
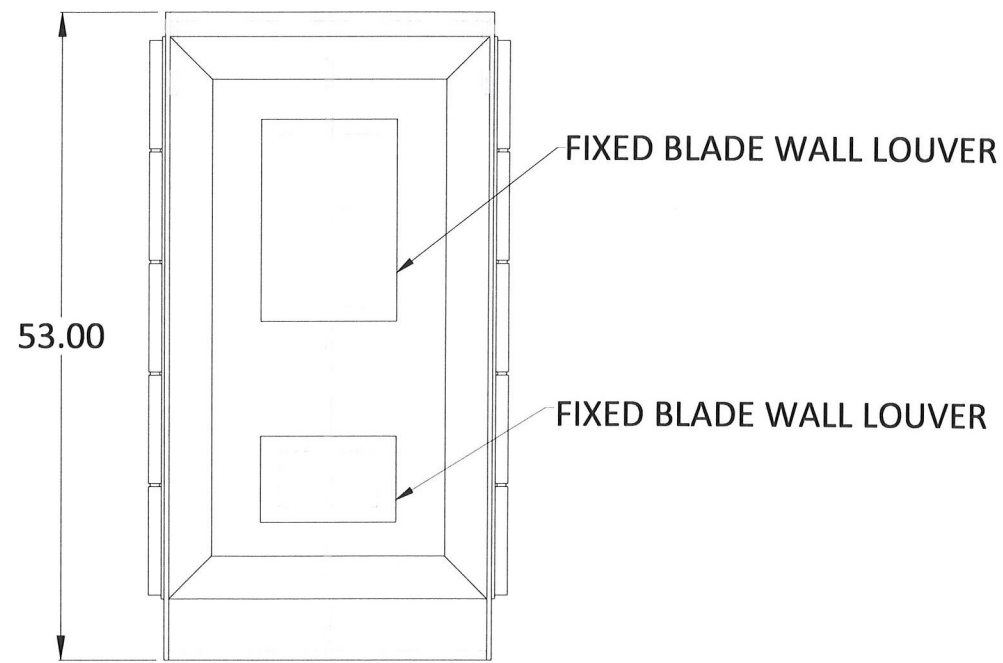
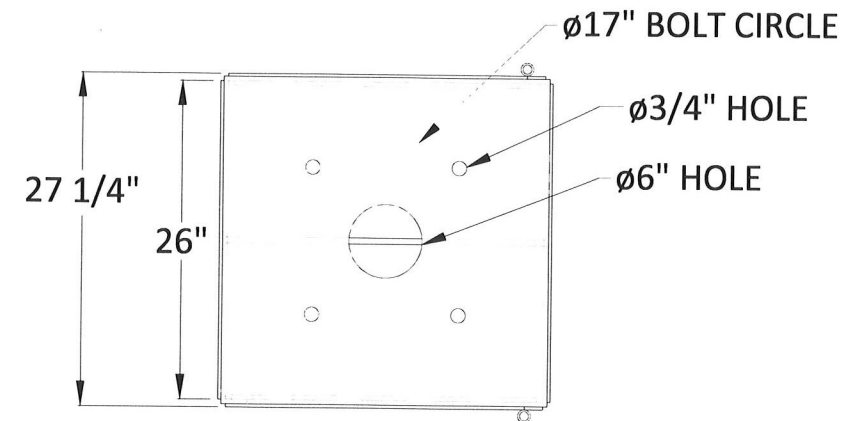
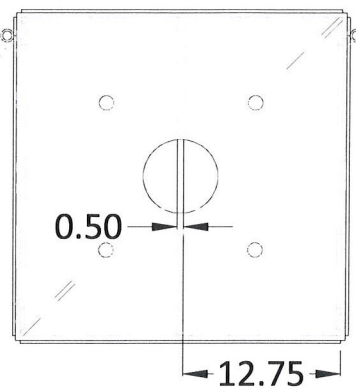
EXTENET NODE ID:
 BBX-019A

SITE ADDRESS:
 425 NEWBURY ST

SHEET TITLE:
 ANTENNA DETAILS

SHEET NUMBER:
D-1

N:\Engineering\Extenet Systems\BA - Boston 216 Nodes\BBX - Back Bay\NPPs\AUTOCAD\NODE BBX-019 - Option A.dwg
10/10/19



STEEL ELECTRICAL ENCLOSURE

2'-3 1/4" SQ. x 4"-5" TALL, BASE CABINET
SCALE: NOT TO SCALE

1

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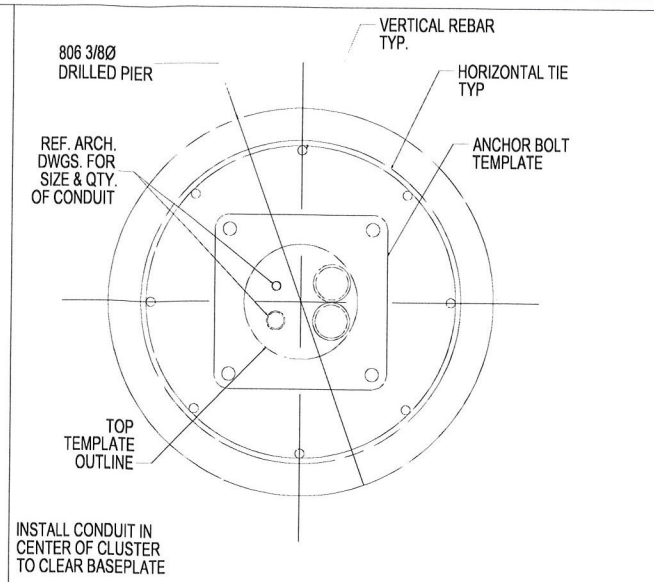
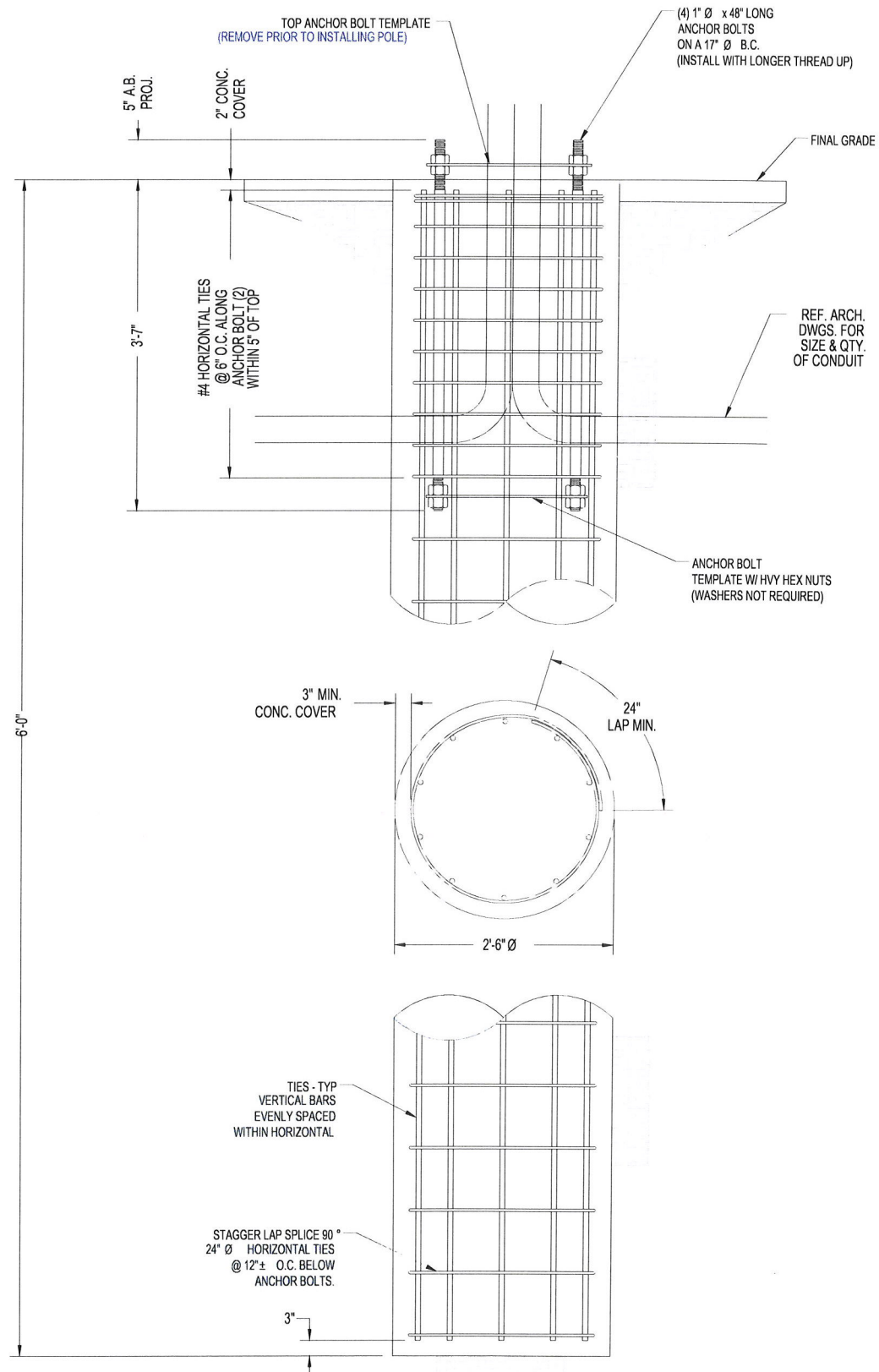
EXTENET NODE ID:
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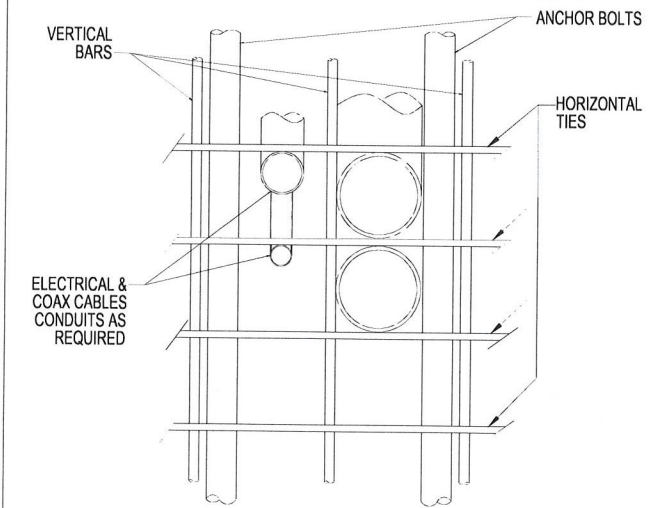
SHEET TITLE:
RADIO SHROUD DETAILS

SHEET NUMBER:

D-2

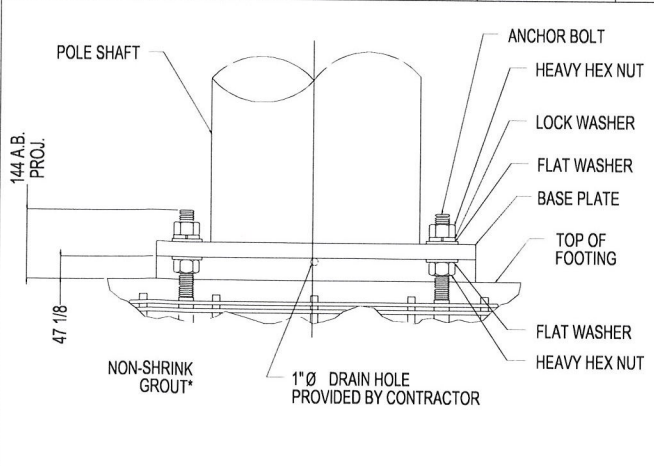


CONDUIT DETAIL @ PIER SECTION SCALE: NONE 1



* ADJUST REBAR AS NEEDED TO ACCOMMODATE CONDUIT. SEE REINFORCEMENT SUMMARY FOR SIZE, QUANTITY AND LOCATION OF VERTICAL BARS AND HORIZONTAL TIES.

CONDUIT DETAIL SCALE: NONE 2



* NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI.
BASE PLATE SHALL NOT BE GROUTED UNTIL AFTER THE STRUCTURE HAS BEEN INSTALLED AND PLUMBED.

BASE GROUTING DETAIL SCALE: NONE 3

DESCRIPTION	QTY.	SIZE	LENGTH	WEIGHT	OVERLAP
VERTICAL BARS	8	#6	5'-6"	66 LBS.	N/A
HORIZONTAL TIES	10	#4	8'-4"	55 LBS.	2'-0"

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND FACILITIES PRIOR TO EXCAVATING ANY MATERIALS.
- CONTRACTOR SHALL INSPECT AND REMOVE ALL DEBRIS FROM BOTTOM OF EXCAVATION.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO, AND IMMEDIATELY AFTER PLACING CONCRETE. ANCHOR BOLT LAYOUT IS CRITICAL FOR MONOPOLE INSTALLATION.
- CONTRACTOR SHALL USE AND PROVIDE DEFORMED REINFORCING BARS CONFORMING TO ASTM A615 GR. 60 (60,000 PSI MIN. YIELD). CONTRACTOR SHALL USE STEEL WIRE TO HOLD REINFORCING BARS TOGETHER. IF WELDING REBAR IS PREFERRED, SUBSTITUTE USING A706 GR. 60 DEFORMED BARS.
- CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL USE 1" MAXIMUM STONE AGGREGATE. MIX DESIGN: 6 1/2 SACKS OF CEMENT MINIMUM PER CUBIC YARD. 5" MINIMUM AND 7" MAXIMUM CONCRETE SLUMP.
- CONCRETE SHALL BE CONSOLIDATED USING VIBRATORY METHODS THROUGHOUT DEPTH OF FOUNDATION. VIBRATING LOWER DEPTHS MAY BE ACCOMPLISHED BY TOUCHING REBAR CAGE WITH VIBRATOR.
- CONTRACTOR SHOULD ANTICIPATE THE USE OF A FULL-LENGTH TEMPORARY CASING TO STABILIZE THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATED HOLE. CONCRETE SHALL BE PLACED USING CONVENTIONAL METHODS TO MINIMIZE SEGREGATION OF CONCRETE AND AGGREGATE. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FT. CONCRETE MAY BE PLACED BELOW WATER USING TREMIE METHODS.
- CONCRETE SHALL BE PLACED TO THE DEPTH INDICATED, AND THE ABOVE GRADE PORTION SHALL BE FORMED. THE REBAR CAGE, ANCHOR BOLTS, AND CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. COLD JOINTS ARE NOT ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVERAGE OVER REINFORCING BARS TO MINIMIZE CORROSION POTENTIAL. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CONCRETE COVER OVER REBAR. TOP OF FOOTING SHALL BE TROWELLED LEVEL AND SMOOTH.
- DRILLED PIER FOUNDATION DESIGN PER 2009/2012 IBC, TABLE 1806.2, CLASS 4 MATERIAL.
- TOTAL VOLUME OF CONCRETE REQUIRED FOR THIS FOUNDATION IS APPROXIMATELY 1.1 CU. YDS.

FACTORED BASE REACTIONS

MOMENT = 30.9 ft-kips
 SHEAR = 2.46 kips
 VERTICAL = 1.67 kips

SPECIAL INSPECTIONS

SPECIAL INSPECTION: THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 2009/2012 IBC, SECTION 1704

ITEM	DESCRIPTION	INSPECTION BY	MATERIAL
1	PIER EXCAVATION LATERAL BEARING CAPACITY	SOILS ENGINEER	300 PSF/FT LATERAL
2	PIER CONSTRUCTION REINFORCING STEEL BAR SIZES AND INSTALLATION	SPECIAL INSPECTOR	ASTM A615 GR. 60
3	ANCHOR BOLTS BOLT SIZE AND LENGTHS INSTALLATION	SPECIAL INSPECTOR	ASTM F1554 GR. 55
4	CONCRETE TEST SPECIMENS PLACEMENT OF CONCRETE	SPECIAL INSPECTOR	f _c = 4,000 PSI TYPE II CEMENT

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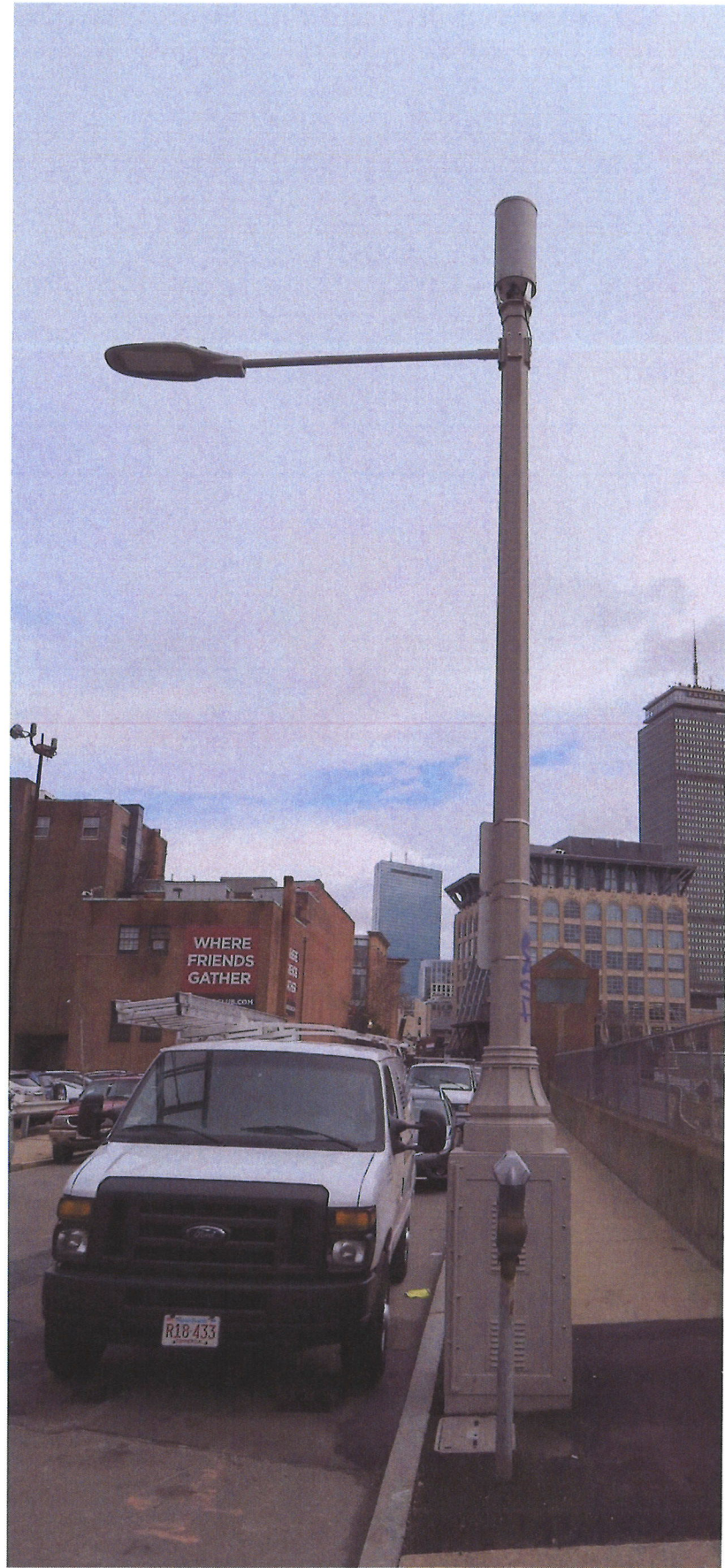
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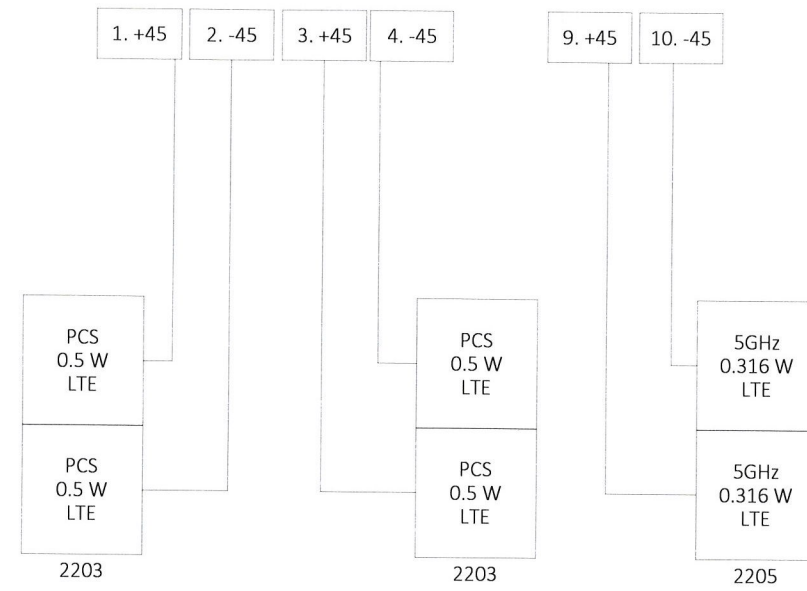
10/10/19 N:\Engineering\Extenet-Systems\BA - Boston 216 Nodes\BBX - Back Bay\NPPs\AUTOCAD\NODE BBX-019 - Option A.dwg



EXISTING POLE TO BE REMOVED
SCALE: NOT TO SCALE

1

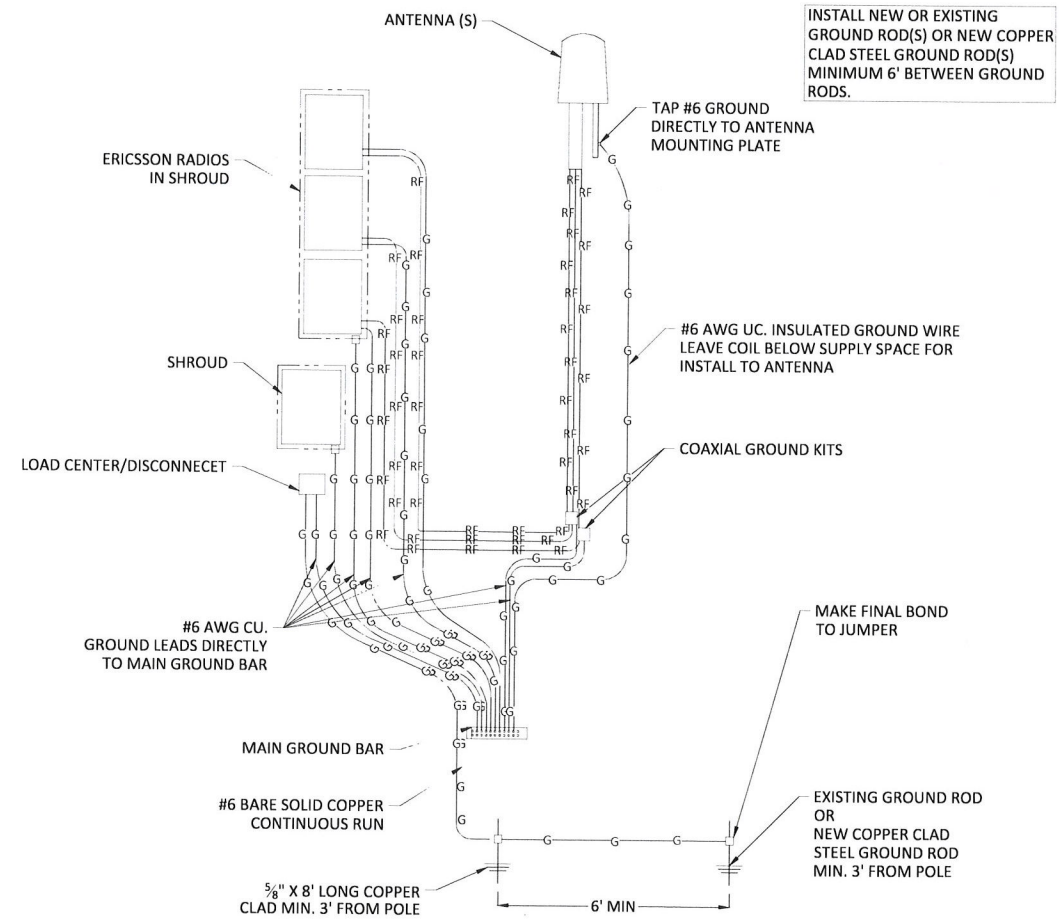
GALTRONICS GQ2410-06621 ANTENNA



WIRING DIAGRAM

SCALE: NOT TO SCALE

2



GROUNDING DIAGRAM

SCALE: NOT TO SCALE

3

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EXTENET NODE ID:
BBX-019A

SITE ADDRESS:
425 NEWBURY ST

SHEET TITLE:
GROUNDING & WIRING DIAGRAMS

SHEET NUMBER:

D-4

B

To: Arthru Pino
Extenet Systems

From: Michael Donaghy
Public Works - Street Lighting Division

Date: October 19, 2020

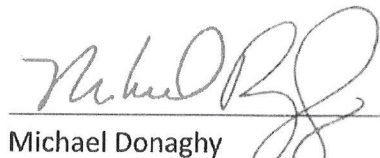
Re: DAS Pole Transfer Location Request - 425 Newbury Street

Mr. Pino,

Pursuant to section 3.15 "Removal or Relocation of Wireless Facilities at City's Request" of the Extenet license agreement with the City of Boston, I request transfer of the Extenet Distributed Antenna System (DAS) Light Pole to accommodate the changes to the right-of-way and adjacent parcels at that location due.

Per our conversation, and submittals you've provided to the Street Lighting Division, the existing DAS pole (42.348039°, -71.090067°) will be relocated across Newbury Street (42.348124°, -71.090054°) at approximately 425 Newbury Street.

The transfer of this asset will allow the area construction to continue while still providing adequate street lighting and network connectivity.


Michael Donaghy
Interim Associate Electrical Engineer
City of Boston Public Works
Street Lighting Division