



# CAMBRIDGE HISTORICAL COMMISSION

831 Massachusetts Avenue, 2<sup>nd</sup> Fl., Cambridge, Massachusetts 02139  
Telephone: 617 349 4683 TTY: 617 349 6112  
E-mail: histcomm@cambridgema.gov URL: www.cambridgema.gov/Historic

## APPLICATION FOR CERTIFICATE

1. The undersigned hereby applies to the Cambridge Historical Commission for a Certificate of (check one box):  Appropriateness,  Nonapplicability, or  Hardship, in accordance with Chapter 40C of the Massachusetts General Laws and/or Chapter 2.78 of the Municipal Code.
2. Address of property: Brattle Sq @ Mount Auburn St, Cambridge, Massachusetts
3. Describe the proposed alteration(s), construction or demolition in the space provided below:  
(An additional page can be attached, if necessary).

Crown Castle is proposing a small cell installation at an existing City of Cambridge street light located in the Harvard Square Conservation district. Crown Castle is proposing to replace the current pole (29'-8") with a look-a-like pole (29'-8") for mounting the proposed equipment.

The proposed equipment for the location is (1) amphenol antennas, (1) proposed apelio RCEN-slim-361812 enclosure, (2) commscope ion-ml radios, and (1) proposed PTS90X21 disconnect/load center. The proposed height of the pole with the attached equipment will be 33'-9". Please see attached node profile for photo sims as well as equipment information.

The proposed underground work for power is a 25' installation of (1) 2" SCH 40 PVC from EMH #C116 to proposed handhole. For fiber there is a proposed 22' of (2) 4" PVC from proposed handhole to the other proposed hand hole. Then there is a proposed 14' of (1) 3" PVC from proposed CC handhole to HSQ-13 node location. Please see attached P-Plans for more information on what is located in ROW and proposed duct configuration.

I certify that the information contained herein is true and accurate to the best of my knowledge and belief.  
The undersigned also attests that he/she has read the statements printed on the reverse.

Name of Property Owner of Record: Crown Castle Fiber LLC

Mailing Address: 3200 Horizon Drive Suite 150 King of Prussia, PA 19406

Telephone/Fax: 678-464-2027 E-mail: bryn.thornburgh@crowncastle.com

⇒ Signature of Property Owner of Record: *Bryn Thornburgh*  
(Required field; the application will not be considered complete without the property owner's signature)

Name of proponent, if not record owner: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone/Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

(for office use only):

Date Application Received: 8.10.21 Case Number: 4649 Hearing Date: \_\_\_\_\_

Type of Certificate Issued: \_\_\_\_\_ Date Issued: \_\_\_\_\_

**Instructions for Completing this Application:**

An application must be filed with the Cambridge Historical Commission (CHC) before work begins. Twelve (12) copies of the application should be attached to twelve (12) copies of supplementary material such as sketches, scale drawings, site plans, specifications, or photographs sufficient to enable the CHC to understand the details of the work proposed and to make a determination on the application. Plans no larger than 11" x 17" are preferred. Please submit reduced copies of plans if the originals are of a larger dimension. Do not use spiral bindings, plastic covers, or heavy stock (these will be removed prior to mailing). Double sided copies are encouraged to save paper and postage. See our website or call for a list of meeting dates and deadlines.

The CHC staff welcomes advance inquiries for interpretations or advice. Call 617/349-4683 for appointment. An application is considered incomplete without accompanying plans and drawings. The CHC reserves the right to determine an application incomplete at the time of hearing the application if it determines that the plans, drawings and other information submitted are not sufficient to enable it to determine whether to grant or deny a certificate.

Owners are urged to appear before the CHC in person or to designate an agent to act for them. The CHC will deem the agent to be authorized by the owner to make decisions regarding the extension or waiver of the period within which the CHC is otherwise required to make a determination on the application. All meetings are open to the public.

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**Administration of Historic Districts, Landmarks, and Protected Properties:**

The administration of historic districts and landmarks is guided by the provisions of Ch. 40C of the Mass. General Laws and by Ch. 2.78 of the Code of the City Of Cambridge. Other properties may also be subject to CHC jurisdiction including properties with conditional variances and properties governed by individual preservation restrictions.

Any new construction, alteration of exterior architectural features, or demolition within an historic district or on the premises of a protected property or a designated landmark must be reviewed by the CHC. No building permit for such work on a protected property, designated landmark, or property within a historic district may be issued by the Inspectional Services Department until a certificate has been issued. The CHC must approve the alteration or construction of all structures, including signs, fences, walls, terraces, walks, driveways, light fixtures and the like, which are "open to view from a public street, public way, public park or public body of water," whether or not a building permit is required, and must approve changes in exterior color for properties within a historic district or as otherwise agreed.

Prior to each hearing, the CHC staff will take slides or digital photographs of the subject property in daylight with ordinary camera equipment for the purpose of documenting the publicly visible conditions of buildings and exterior architectural features for the CHC and the public to view at the hearing. More information can be provided on request.

The CHC issues three types of certificates. A Certificate of Appropriateness will be issued when the CHC has determined that the construction or alteration will be appropriate for or compatible with the preservation or protection of the historic district, designated landmark, or other protected property. A Certificate of Nonapplicability may be issued when an application does not involve an exterior feature, or when the exterior feature is not then subject to CHC review. A Certificate of Hardship may be issued when failure to approve an otherwise inappropriate project would involve substantial hardship to the applicant and the CHC determines that the project can be accomplished without substantial detriment to the purposes of the district, preservation restriction, or landmark designation.

The CHC considers each application on its own merits, and does not apply specific architectural guidelines. Landscaping with plant materials is not subject to CHC review unless it is planned in conjunction with alterations or new construction. The CHC must approve projects that are not incongruous with the historic aspects or the architectural characteristics of the protected property, landmark, or historic district.



**PROJECT:**

**VZW 4G NODE LOCATION**

**SITE CASCADE:**

**HSQ-013  
SCU# 464623**

**SITE TYPE:**

**29'-8" STREETLIGHT POLE**

**DRAWING DESCRIPTION:**

**PERMIT DRAWING**

**SITE INFORMATION**

LATITUDE (NAD83):  
42°32'32.67" (42.5424083°)  
42.372967°  
 LONGITUDE (NAD83):  
-71°07'15.51" (-71.1209722°)  
-71.110978°  
 COUNTY:  
MIDDLESEX  
 ZONING JURISDICTION:  
CITY OF CAMBRIDGE  
 ZONING DISTRICT:  
88 - BUSINESS B  
 POWER COMPANY:  
EVERSOURCE  
 TELEPHONE COMPANY:  
VERIZON NEW ENGLAND  
 ADA COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ALL ADA SITE REQUIREMENTS ARE MET OR ARE NOT APPLICABLE.

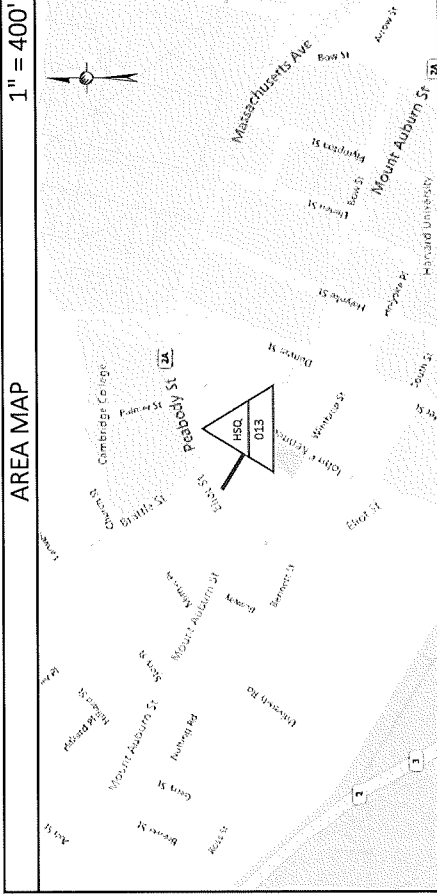
**PROJECT TEAM**

BACKHAUL PROVIDER:  
CROWN CASTLE FIBER  
 CROWN CASTLE PROJECT MANAGER:  
NAME: SOPHIA BUCKLEY  
 CROWN CASTLE CONSTRUCTION MANAGER:  
NAME: DAN WILLIAMS  
 CALL CROWN CASTLE SMALL CELL NOC AT (888) 652-0951 AND THE CROWN CASTLE CN PRIOR TO ACCESSING SITE

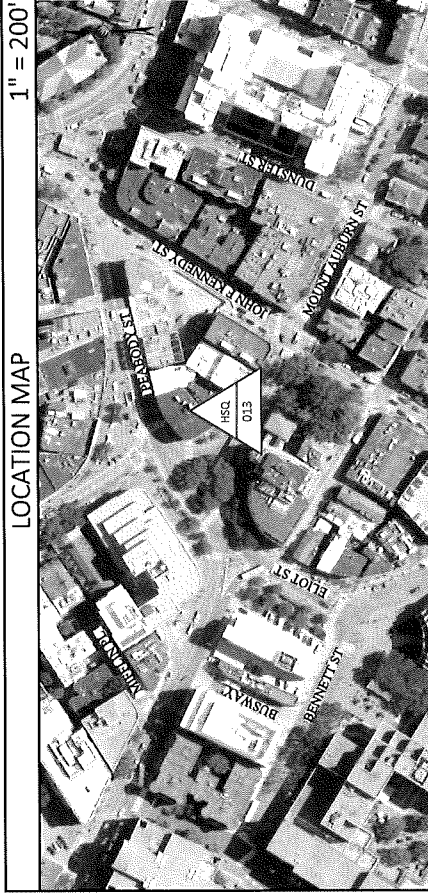
**DO NOT SCALE DRAWINGS**

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**AREA MAP**



**LOCATION MAP**



**DRAWING INDEX**

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A-3.4,5,6	PHOTOGRAPHIC SIMULATION
A-7	SHROUD DETAILS
A-8	EQUIPMENT DETAILS
A-9	4G MOUNT DETAILS
A-10	EME ANALYSIS AND SIGNAGE
A-11	RIF CABLING DIAGRAM
A-12	FIBER DIAGRAM
A-13	ELECTRICAL WIRING DIAGRAM
E-1	DISCONNECT DETAILS
E-2	

**PROJECT EQUIPMENT**

- NEW CROWN CASTLE INSTALLED EQUIPMENT
- (1) AMPHENOL 2C4UJMT960X06F0250 ANTENNA
  - (1) APELO RCEN-SUM-361812 ENCLOSURE
  - (2) COMMSCOPE ION-M1 RADIOS

**APPLICABLE CODE**

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

- INTERNATIONAL BUILDING CODE
- INTERNATIONAL MECHANICAL CODE
- ANSI / TIA-222 STRUCTURAL STANDARD
- NFPA 780 - LIGHTNING PROTECTION CODE
- UNIFORM PLUMBING CODE
- NATIONAL ELECTRICAL CODE
- 2017 NATIONAL ELECTRICAL SAFETY CODE



KNOW WHAT'S BELOW CALL BEFORE YOU DIG IT'S FREE AND IT'S THE LAW  
 CALL 811 OR 1-888-DIG-SAFE

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTORS ACTIVITIES.



PLANS PREPARED BY:  
**PIKE TELECOM**  
 21 Oxford Rd  
 Marlfield, MA 02048  
 www.piketelcom.com  
 1-938-337-7088

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	ME	04/20/21
1	UPDATE EQUIPMENT	GL	05/17/21

SITE CASCADE:  
**HSQ-013  
SCU# 464623**

SITE ADDRESS:  
 BRATTLE SQUARE @ MT AUBURN ST  
 CAMBRIDGE, MA 02138  
 POLE# N/A

SHEET DESCRIPTION:  
**TITLE SHEET**

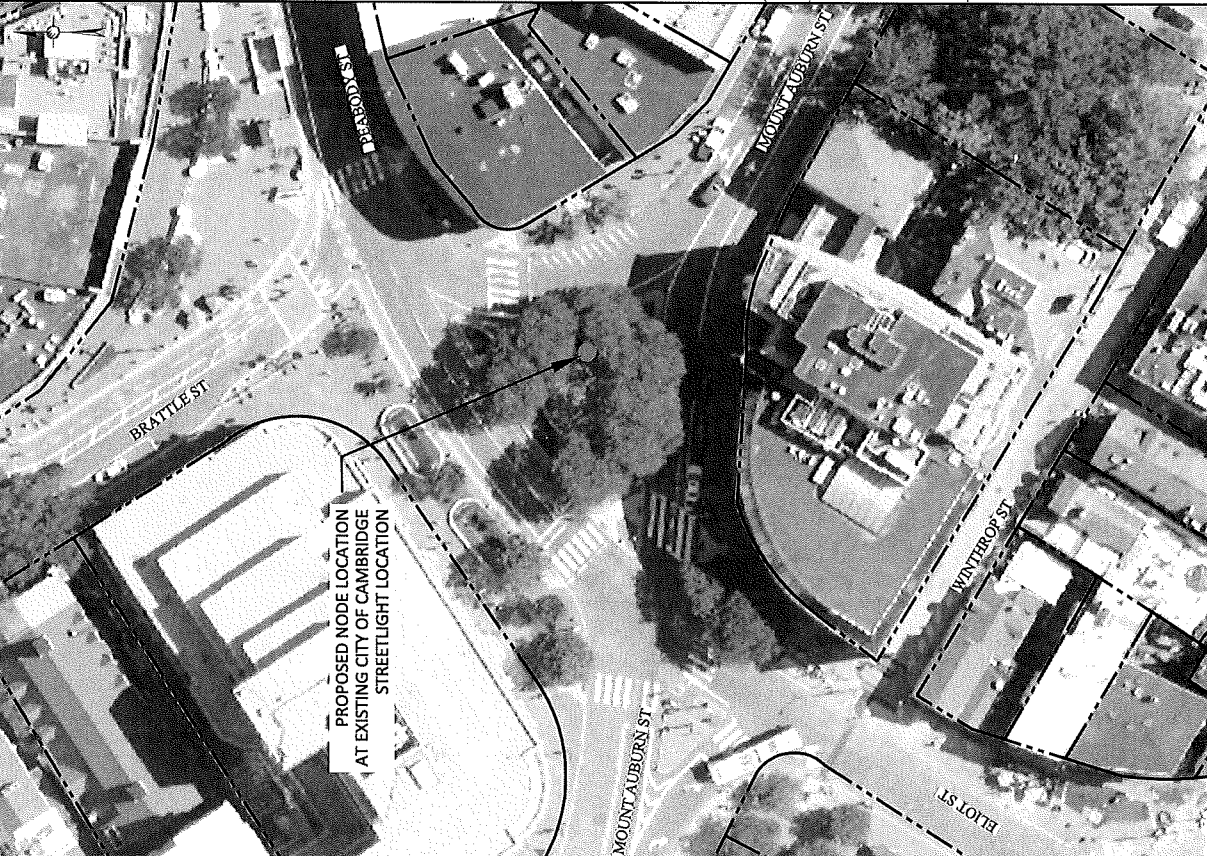
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**T-1**



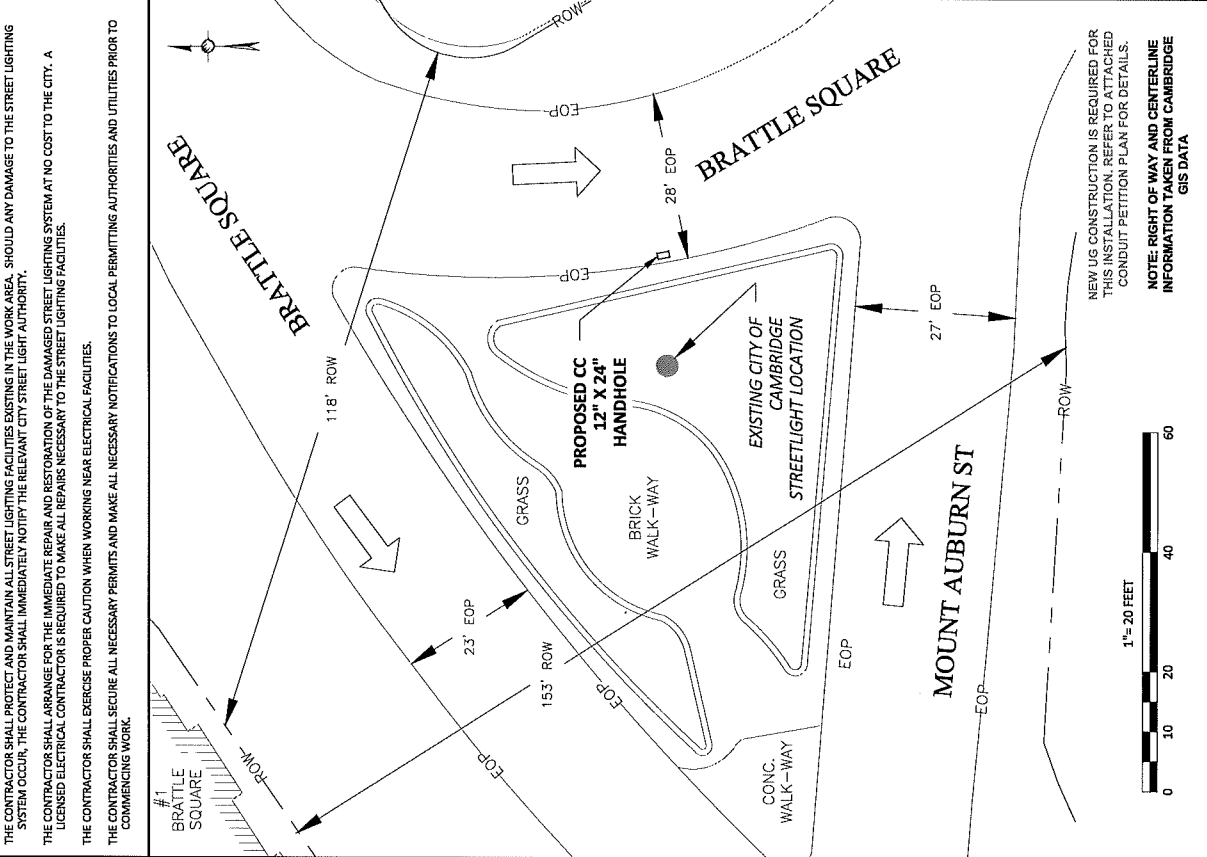








AERIAL SITE LOCATION  
1" = 50'  
1



OVERALL SITE PLAN  
2

THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL STREET LIGHTING FACILITIES EXISTING IN THE WORK AREA. SHOULD ANY DAMAGE TO THE STREET LIGHTING SYSTEM OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RELEVANT CITY STREET LIGHT AUTHORITY.

THE CONTRACTOR SHALL ARRANGE FOR THE IMMEDIATE REPAIR AND RESTORATION OF THE DAMAGED STREET LIGHTING SYSTEM AT NO COST TO THE CITY. A LICENSED ELECTRICAL CONTRACTOR IS REQUIRED TO MAKE ALL REPAIRS NECESSARY TO THE STREET LIGHTING FACILITIES.

THE CONTRACTOR SHALL EXERCISE PROPER CAUTION WHEN WORKING NEAR ELECTRICAL FACILITIES.

THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY NOTIFICATIONS TO LOCAL PERMITTING AUTHORITIES AND UTILITIES PRIOR TO COMMENCING WORK.

PLANS PREPARED FOR: 		PLANS PREPARED BY: 		DRAWING NOTICE: THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.	
21 Oxford Rd Mansfield, MA 01946 Telephone: 508-337-7600 Fax: 508-337-7600		ENGINEERING SEAL:		REVISIONS: NO.   DATE   BY   DESCRIPTION 1   ORIGINAL   MS   PROJECT 1   UPDATE EQUIPMENT   GE   10/07/21	
SITE CASCADE: HSQ-013 SCU# 464623		SITE ADDRESS: BRATTLE SQUARE @ MT AUBURN ST CAMBRIDGE, MA 02138 POLES# N/A		SHEET DESCRIPTION: OVERALL SITE PLAN	
SHEET NUMBER: A-1		NEW U.S. CONSTRUCTION IS REQUIRED FOR THIS INSTALLATION. REFER TO THE ADJACENT CONDUIT PETITION PLAN FOR DETAILS. NOTE: RIGHT OF WAY AND CENTERLINE INFORMATION TAKEN FROM CAMBRIDGE GIS DATA			



PLANS PREPARED FOR:



PLANS PREPARED BY:  
**PKC TELECOM**  
 21 Oxford Rd  
 Mansfield, MA 02148  
 www.pkctelecom.org  
 1-800-337-7600

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REVISION:	NO.	DATE
1	ORIGINAL	10/24/2021
2	UPDATE EQUIPMENT	01/09/2022

SITE CASUALTY:  
**HSQ-013**  
**SCU# 464623**

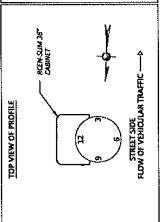
SITE ADDRESS:  
 BRATTLE SQUARE @ MT AUBURN ST  
 CAMBRIDGE, MA 02138  
 POLE# N/A

SHEET DESCRIPTION:  
**PROFILE**

SHEET NUMBER:  
**A-2**

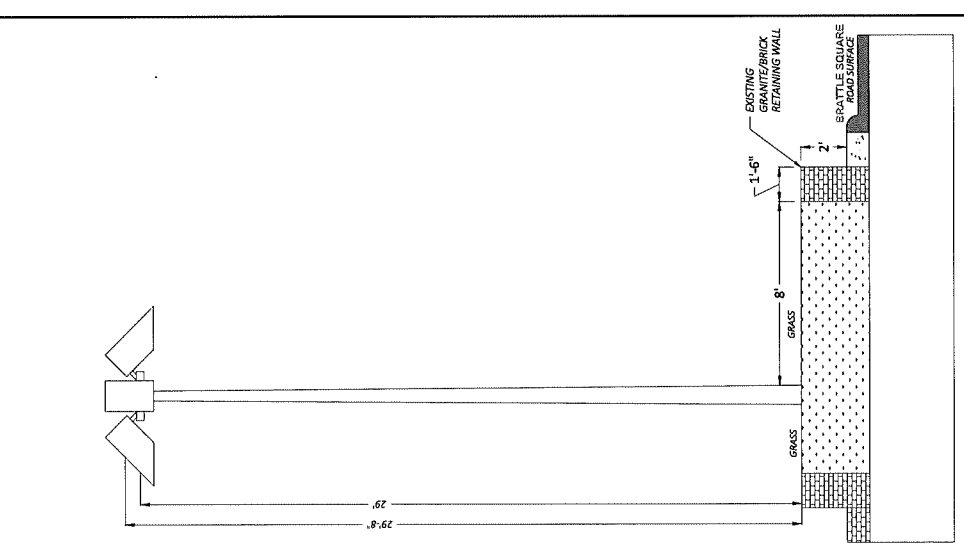
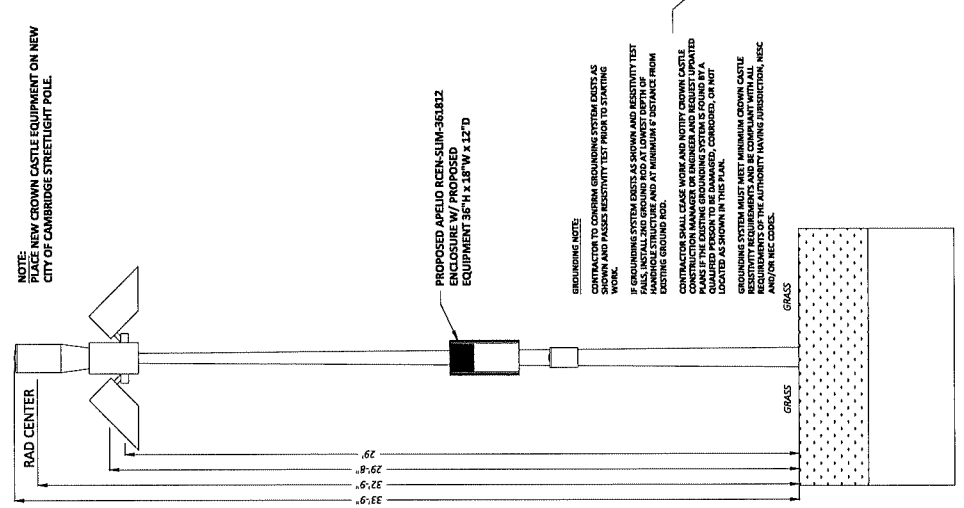
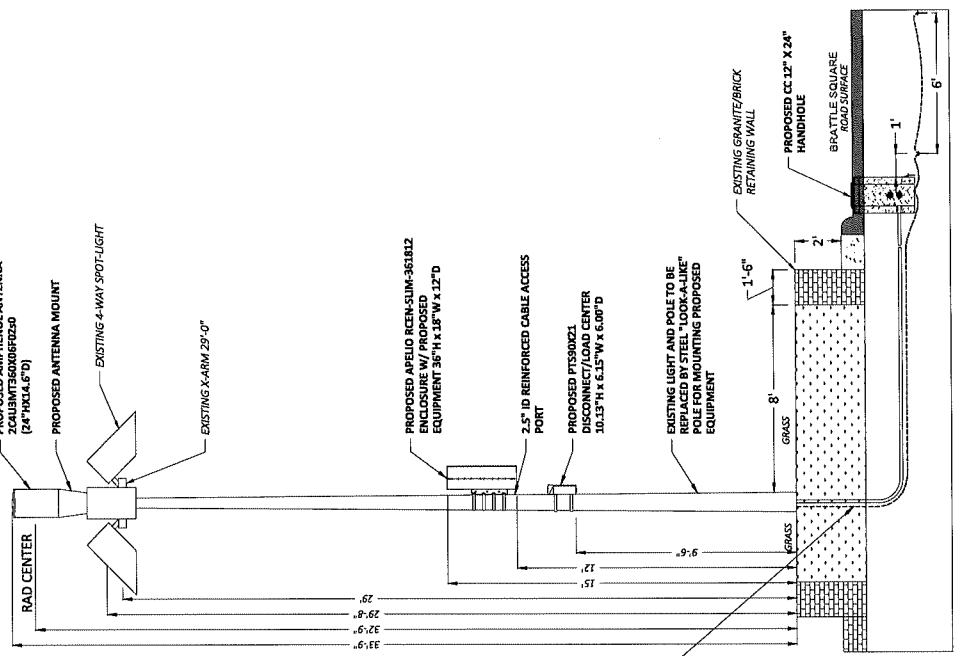
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2. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. POLE FOUNDATION AND ACCOMPANYING HARDWARE SHALL BE EVALUATED FOR STRUCTURAL SOUNDNESS. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION. ALL CONDITIONS SHALL BE DISCUSSED WITH THE CONSTRUCTION PROJECT MANAGER OR ENGINEER AND MITIGATION ADVISED UPON PRIOR TO CONSTRUCTION. HARDWARE MUST BE INSPECTED BY A RESPONSIBLE TECHNICIAN IN ORDER TO ENSURE THAT THEY ARE NOT DAMAGED OR LOCATED AND ARE NOT LAMING OR MOVING EXCESSIVELY BEFORE ANY WORK IS STARTED.



**NOTES:**

FROM TIME TO TIME IT MAY BE NECESSARY TO MAKE MINOR ADJUSTMENTS TO SPECIFICATIONS, AND ORISING OR SPACING A BRACKET OR MOUNT TO MEET REQUIREMENTS, AND ORISING OR SPACING A BRACKET OR MOUNT TO MEET REQUIREMENTS, AND ORISING OR SPACING A BRACKET OR MOUNT TO MEET REQUIREMENTS. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION. ALL CONDITIONS SHALL BE DISCUSSED WITH THE CONSTRUCTION PROJECT MANAGER OR ENGINEER AND MITIGATION ADVISED UPON PRIOR TO CONSTRUCTION. HARDWARE MUST BE INSPECTED BY A RESPONSIBLE TECHNICIAN IN ORDER TO ENSURE THAT THEY ARE NOT DAMAGED OR LOCATED AND ARE NOT LAMING OR MOVING EXCESSIVELY BEFORE ANY WORK IS STARTED.



**NOTES:**

1. ALL ATTACHMENTS INSTALLED SHALL MEET ALL CLEARANCE REQUIREMENTS FROM OVERHEAD POWER LINES AS SPECIFIED IN THE LATEST EDITION OF THE NESC AND BY LOCAL AGENCIES.
2. ABSOLUTELY NO FIELD CORING / DRILLING / CUTTING OF METALLIC POLES TO BE ALLOWED.
3. ALL NEW EQUIPMENT/ UNITS SHALL BE PAINTED TO MATCH EXISTING LUMINAIRE, POLE OR ARM OR BE WHITE, BROWN, GRAY OR BEIGE.
4. THE COMMUNICATION UNITS SHALL BE A COLOR MATCHING THE EXISTING LUMINAIRE, POLE OR ARM OR BE WHITE, BROWN, GRAY OR BEIGE.

PROPOSED PROFILE  
 FACING WEST TOWARDS BRATTLE SQUARE

1" = 5 FEET

0 5 10 15

PROPOSED PROFILE  
 FACING NORTH ALONG BRATTLE SQUARE

EXISTING PROFILE  
 FACING NORTH ALONG BRATTLE SQUARE

EXISTING STREETLIGHT POLE

INSTALL EQUIPMENT ON PROPOSED STREETLIGHT POLE

PLANS PREPARED FOR:



PLANS PREPARED BY:



21 Oxford Rd  
Manchester, MA 02304  
Tel: 603-431-5559  
Fax: 603-431-7600

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PURPOSES ONLY

ENGINEERING SEAL

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REVISIONS:	BY:	DATE
1	ORANGE	04/16/2021
2	ORANGE	04/16/2021
3	ORANGE	04/16/2021

SITE CASKADE:  
H5Q-013  
SCU# 464623

SITE ADDRESS:  
BRATTLE SQUARE @ MT AUBURN ST  
CAMBRIDGE, MA 02138  
POLE# N/A

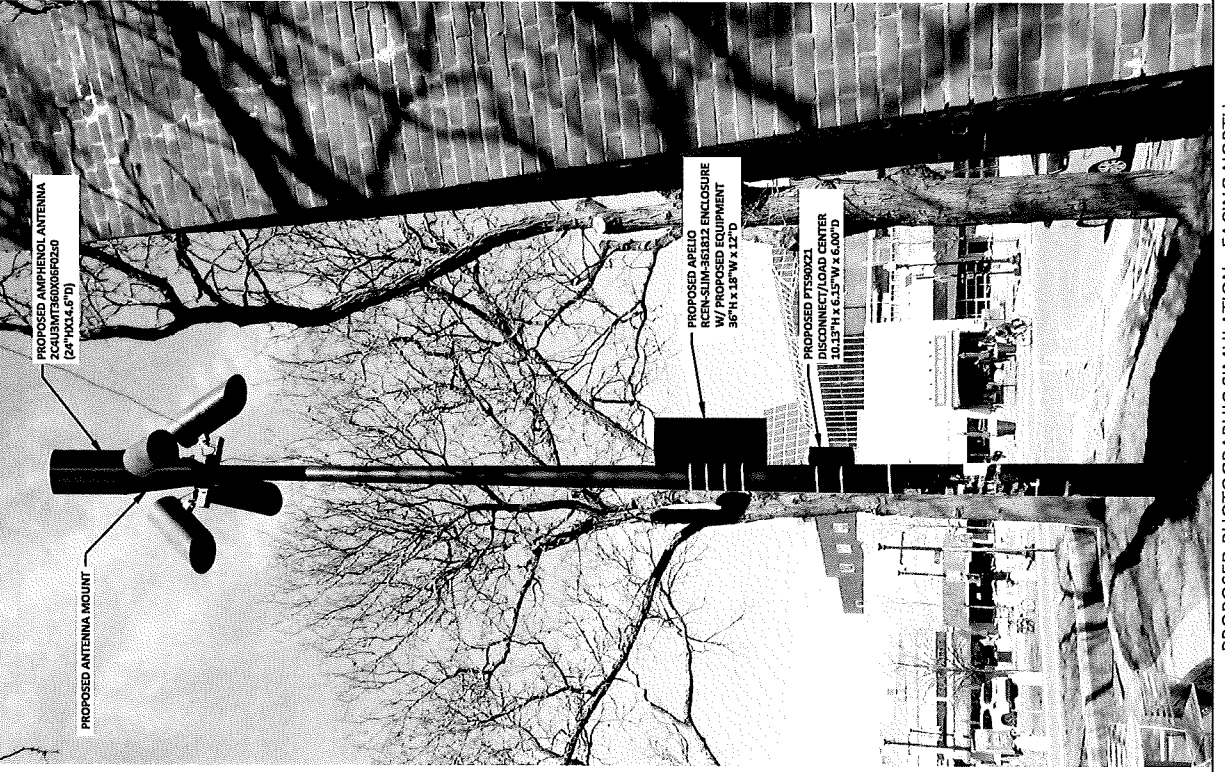
SHEET DESCRIPTION:  
PHOTOGRAPHIC SIMULATION

SHEET NUMBER:  
A-3



EXISTING PHOTOGRAPHIC VIEW - FACING NORTH

1



PROPOSED AMPHENOL ANTENNA  
ZCAL5MT3600G02G50  
(24' TOLL 4.4' D)

PROPOSED ANTENNA MOUNT

PROPOSED ARELO  
RCEN-SUM-36182 ENCLOSURE  
W/ PROPOSED EQUIPMENT  
30" H x 18" W x 12" D

PROPOSED PFS00ZI  
DISCONNECT/LOAD CENTER  
TYPE 174625 17 X 6.00 D

PROPOSED PHOTOGRAPHIC SIMULATION - FACING NORTH

2

PLANS PREPARED FOR:



PLANS PREPARED BY:  
**PIKE TELECOM**  
31 Oxford St  
Manchester, MA 02048  
www.piketelcom.org  
1-508-337-7800

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	MS/JMK/SZL	05/07/22
1	UPDATE EQUIPMENT	GL	05/07/22

SITE CASCADE:  
**H5Q-013  
SCU# 484623**

CITY ADDRESS:  
BRATTLE SQUARE @ MT AUBURN ST  
CAMBRIDGE, MA 02138  
POLE# N/A

SHEET DESCRIPTION:  
**PHOTOGRAPHIC SIMULATION**

SHEET NUMBER:  
**A-4**



PROPOSED PHOTOGRAPHIC SIMULATION - FACING NORTHEAST

EXISTING PHOTOGRAPHIC VIEW - FACING NORTHEAST



EXISTING PHOTOGRAPHIC VIEW - FACING EAST

1



PROPOSED AMPHENOL ANTENNA  
2CUL3MT360006F0250  
(24" HOLA, 6"D)

PROPOSED ANTENNA MOUNT

PROPOSED APELLO  
REN-SLIM-36812 ENCLOSURE  
W/ PROPOSED EQUIPMENT  
36" H, 12" W x 12" D

PROPOSED PFS90021  
DISCONNECT/LOAD CENTER  
10.15" H x 6.15" W x 6.00" D

PROPOSED PHOTOGRAPHIC SIMULATION - FACING EAST

2

PLANS PREPARED FOR:



PLANS PREPARED BY:



21 Oxford Rd  
Mansfield, MA 02048  
www.piketelcom.com  
1-800-337-7466

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REV	DESCRIPTION	BY	DATE
0 <td>ISSUE FOR PERMIT</td> <td></td> <td>02/18/2021</td>	ISSUE FOR PERMIT		02/18/2021
1 <td>UPDATE EQUIPMENT</td> <td></td> <td>02/18/2021</td>	UPDATE EQUIPMENT		02/18/2021

REVISIONS:

SITE CADDADE:  
HSQ-013  
SCU# 464623

SITE ADDRESS:  
BRATTLE SQUARE @ MT AUBURN ST  
CAMBRIDGE, MA 02138  
POLE# N/A

SHEET DESCRIPTION:  
PHOTOGRAPHIC SIMULATION

SHEET NUMBER:  
A-5



EXISTING PHOTOGRAPHIC VIEW - FACING WEST

1



PROPOSED AMPHEND L ANTENNA  
2 CALUMTS6000BF0240  
[24" HX04.6" D]

PROPOSED ANTENNA MOUNT

PROPOSED APFELD ENCLOSURE  
W/ PROPOSED EQUIPMENT  
36" H X 18" W X 12" D

PROPOSED P15300ZL  
ANTENNA MOUNT  
30.13" H X 6.15" W X 6.00" D

PROPOSED PHOTOGRAPHIC SIMULATION - FACING WEST

2

PLANS PREPARED FOR: 	
PLANS PREPARED BY: 	
21 Oxford Rd. Mansfield, MA 02048 www.piketelcom.org 1-508-337-7800	
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REVISIONS: REV   DESCRIPTION   BY   DATE	0   ORIGINAL   GL   05/07/21
1   UPDATE EQUIPMENT	GL   05/07/21
SITE CASCADE: H5Q-013 SCU# 464673	
SITE ADDRESS: BRATTLE SQUARE @ MT AUBURN ST CAMBRIDGE, MA 02138 POLE# N/A	
SHEET DESCRIPTION: PHOTOGRAPHIC SIMULATION	
SHEET NUMBER: A-6	

PLANS PREPARED FOR:



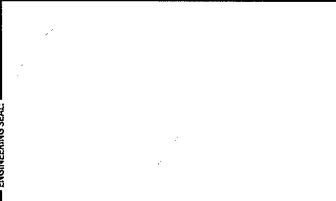
PLANS PREPARED BY:



21 Oxford Rd  
Mansfield, MA 02048  
Tel: 508-337-7600  
Fax: 508-337-7600

FOR PERMITTING  
PURPOSES ONLY

ENGINEERING SEAL:



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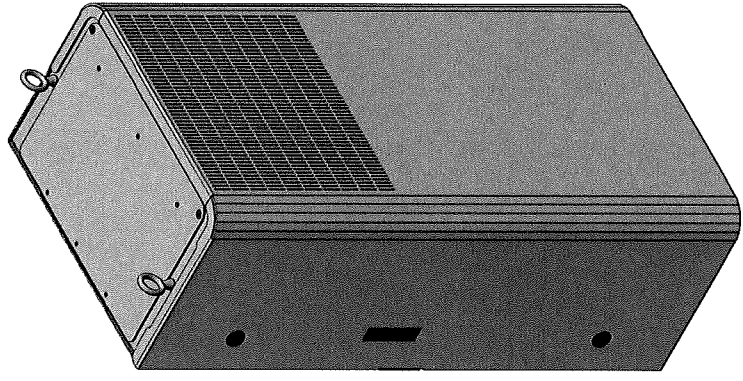
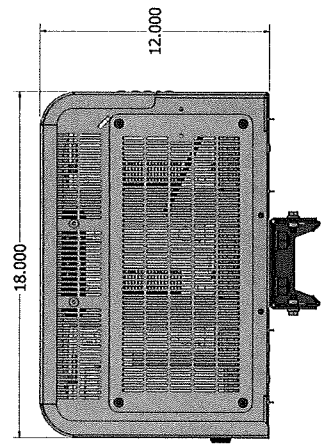
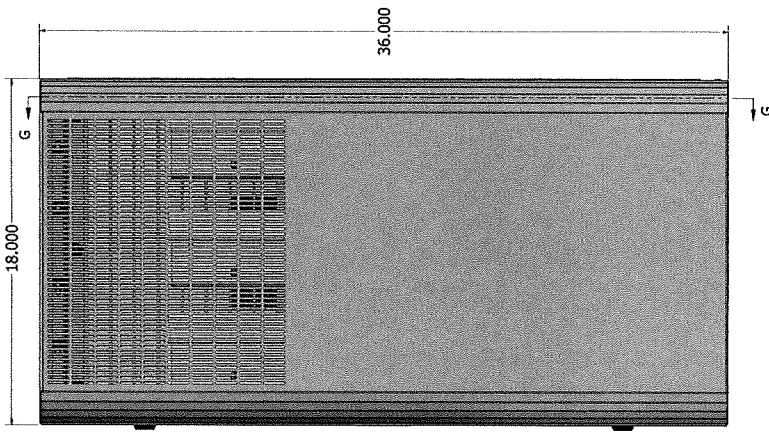
REV	DESCRIPTION	BY	DATE
0	ORIGINAL	MS/MS/21	
1	UPDATE EQUIPMENT	GL/RS/07/21	

SITE CASCADE:  
HSQ-013  
SCU# 464623

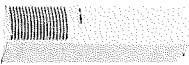
SITE ADDRESS:  
BRATTLE SQUARE @ MT AUBURN ST  
CAMBRIDGE, MA 02138  
POLE# N/A

SHEET DESCRIPTION:  
SHROUD DETAILS

SHEET NUMBER:  
A-7



Carrier Access Point with 4-Band Support for High Power LMR 750, USA 700, USA 750, SMR 800, CEL 850, AWS 1700 and PCS 1900 Applications, Fiber Fed with Fan Kit



**Product Classification**  
 Access point  
 ERA®

**General Specifications**  
 Minimum Software Requirement  
 ION-E SW V2.7  
 Mounting  
 Pole | Wall  
 Note  
 Detailed Product Specifications are available. Please contact your local CommScope representative.

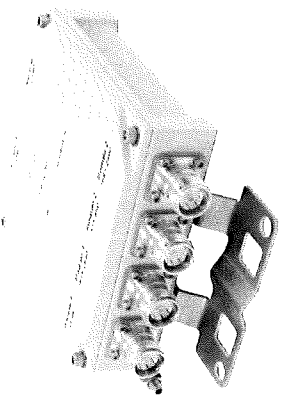
**Power Type**  
 High

**RF Antenna Port Interface**  
 4.3-10 Female

**RF Antenna Port, quantity**  
 1

**Dimensions**  
 Height  
 824 mm | 32.441 in  
 Width  
 176 mm | 6.929 in  
 Depth  
 220 mm | 8.661 in

**Electrical Specifications**  
 ALC Default Threshold  
 -45 dbm  
 Electrical Safety Standard  
 IEC 62368 | UL 62368  
 Electrical Safety Standard Note  
 This is not a consumer device. Additional information for US FCC on product label.  
 Electromagnetic Compatibility (EMC)  
 EN 301489  
 Flatness, inband link  
 ±2 dB  
 Impedance  
 50 ohm  
 License Band  
 AWS 1700 | CEL 850 | LMR 750 | PCS 1900 | SMR 800 | USA 700 | USA



**CBC626T-DL-4310 | E11F13P04**  
**Twin Diplexer 555-960/1695-2690MHz, DC Low, 4.3-10**

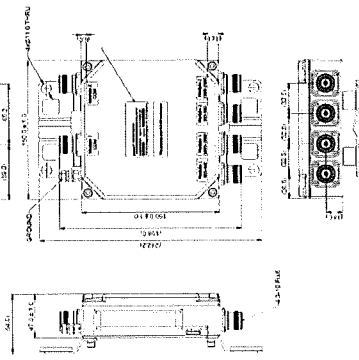
- Full performance in a fraction of the size
- High power handling
- Includes 600 MHz and AWS-3/4 bands
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISC pass-through on low frequency port
- Twin configuration

**Mechanical Specifications**

RF Connector Interface  
 4.3-10 Female  
 RF Connector Interface Body Style  
 Long neck  
 Color  
 Gray  
 Finish  
 Painted

**Dimensions**

Height  
 150.0 mm | 5.9 in  
 Width  
 150.0 mm | 5.9 in  
 Depth  
 47.0 mm | 1.9 in  
 Weight  
 1.8 kg | 4.0 lb



TWIN DIPLEXER (CBC626T-DL-4310 / E11F13P04)

PLANS PREPARED FOR:



PLANS PREPARED BY:



21 Oxford Rd  
 Mansfield, MA 02048  
 www.piketelcom.org  
 1-508-337-7888

FOR PERMITTING  
 PURPOSES ONLY

ENGINEERING SEAL:

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	MS/MSJ/SZ	01/05/2021
1	UPDATE EQUIPMENT	GL/BS07/ZZ	

SITE CAGS04E  
 HSQ-013  
 SCU# 464623

SITE ADDRESS:  
 BRATTLE SQUARE @ MT AUBURN ST  
 CAMBRIDGE, MA 02138  
 POLE# N/A

SHEET DESCRIPTION:  
 EQUIPMENT DETAILS

SHEET NUMBER:  
 A-8



# 18-Port Canister Antenna

(2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz

OMNI | 24 IN | FIXED TILT

2C4U3MT360X06Fxyso

## Features

- 5G Pseudo Omni configuration with 18 connectors
- Ideal for Small Cell / DAS applications
- This antenna meets the requirements of the L-NII
- Available for order with a grey, brown or black radome



2C4U3MT360X06Fxyso

BOTTOM VIEW - CONNECTOR DIAGRAM

18-Port Canister Antenna  
(2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz

OMNI | 24 IN | FIXED TILT

PRODUCT OVERVIEW	
Frequency Range (MHz)	LOW (2x) 696-960   MID (4x) 1695-2700   CBS (2x) 3550-3700   LAA (1x) 5150-5925
Any	R1 R2 Y1 Y2 Y3 Y4 P1 P2 O1
Connector	4 PORTS 8 PORTS 18 PORTS 4 PORTS 2 PORTS
Polarization	XPOL XPOL XPOL XPOL XPOL
Beamwidth (deg)	360° 360° 360° 360° 360°
Electrical Down tilt	0° 2°, 4°, 6° 0° 0° 0°
Configuration	OMNI CONFIGURATION
Total Connector Count	18 PORTS
Connector Type	4.3-10 FEMALE
Dimensions	610 x Ø371 mm (24.0 x Ø14.6 in)
Radome Color Options	GREY, BROWN or BLACK

ELECTRICAL SPECIFICATIONS		Low Band	R1	R2
Frequency Range	MHz	696-806	(2x) 696-960	806-960
Frequency Sub-Range	MHz			
Polarization			(2x) =45°	
Gain	dB	4.2 ± 0.9		3.9 ± 0.7
	dB	5.1		4.6
Asimuth Beamwidth (3 dB)	degrees	360°		360°
Elevation Beamwidth (3 dB)	degrees	96.9° ± 26.7°		72.0° ± 21.7°
Electrical Down tilt	degrees	(x) 0°		
Impedance	Ohms		50	
VSWR			≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc		< -153	
Upper Sideband Suppression	dB		N/A	
Isolation	dB		25	
Interband	dB		> 28	
Input Power	Watts		500W	

2C4U3MT360X06Fxyso | 1



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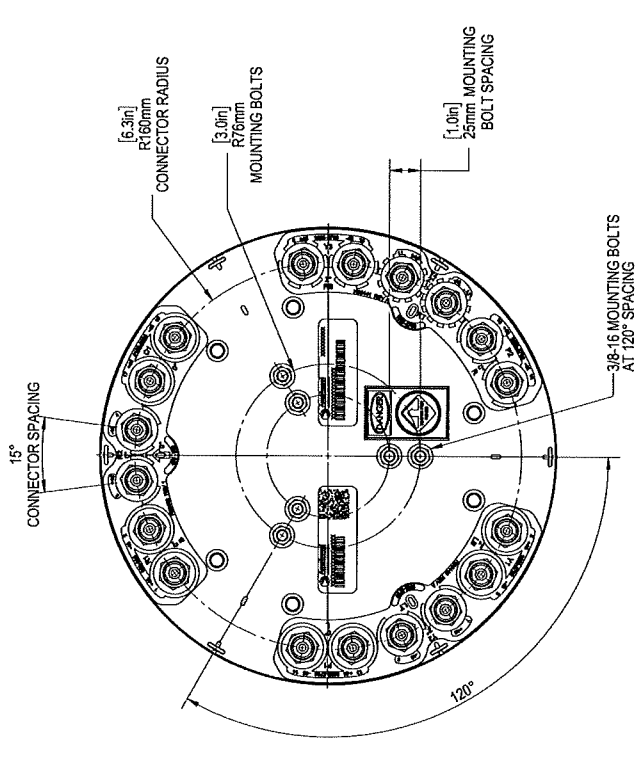
REV	DESCRIPTION	BY	DATE
0	ORIGINAL	MIS	04/29/22
1	UPDATE EQUIPMENT	GL	05/07/23

SITE USAGE:  
HSQ-013  
SCL# 464623

SITE ADDRESS:  
BRATTLE SQUARE @ MTAUBURN ST  
CAMBRIDGE, MA 02138  
POLE# N/A

SHEET DESCRIPTION:  
4G ANTENNA DETAILS

SHEET NUMBER:  
A-9



2C4U3MT360X06Fxyso - PORT DIAGRAM | 2



PLANS PREPARED FOR:



PLANS PREPARED BY:  
**PIKE TELECOM**  
21 Oxford Rd  
Manchester, MA 02048  
www.piketelcom.org  
1-508-337-7800

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	PLS/MS/STZ	05/14/2021
1	UPDATE EQUIPMENT	PLS/STZ	05/17/21

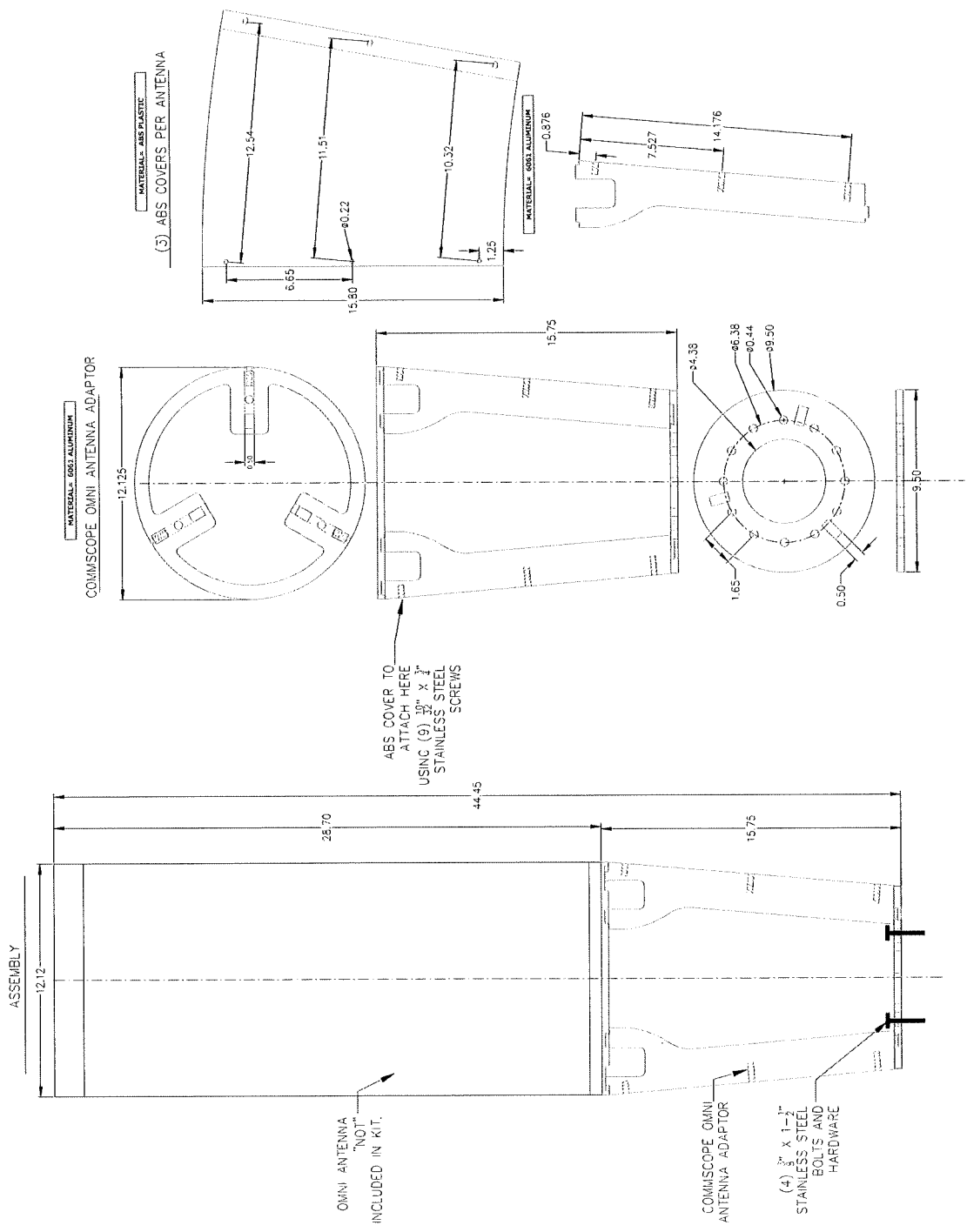
SITE CASCADE:  
**H5Q-013  
SCU# 464623**

SITE ADDRESS:  
BRATTLE SQUARE @ MT AUBURN ST  
CAMBRIDGE, MA 02138  
POLER N/A

SHEET DESCRIPTION:  
**4G MOUNT BRACKET**

SHEET NUMBER:  
**A-10**

RED HIDDEN LINES  
Represents any line of an object that is hidden from view.  
BLUE SOLID LINES  
Represents any line of an object that is visible in a particular view.  
BLACK HIDDEN LINES  
Represents items that are "not" included in KIT.



ANTENNA KIT 008H (COMMSCOPE) 1

PLANS PREPARED FOR: **CROWN CASTLE**

PLANS PREPARED BY: **PIKE TELECOM**  
 21 Oxford Rd  
 Mansfield, MA 02048  
 www.piketelcom.org  
 1-800-339-7766

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	MS	04/25/21
1	UPDATE EQUIPMENT	CE	05/07/21

SITE CASCADE:  
 HSQ-013  
 SCU# 464623

SITE ADDRESS:  
 BRATTLE SQUARE @ MT AUBURN ST  
 CAMBRIDGE, MA 02138  
 POLES# N/A

SHEET DESCRIPTION:  
**EME ANALYSIS AND SIGNAGE**

SHEET NUMBER:  
**A-11**

NOTE:  
 THESE "CAUTION" SIGNS MUST BE POSTED ON BOTH THE OMNI ANTENNA AND THE MOUNTING BRACKET SHROUD ANY TIME THERE IS AN AREA THAT EXCEEDS THE GENERAL PUBLIC (GP) EXPOSURE LIMIT.  
 THE KEEP-BACK DISTANCE FOR THE GP MUST BE FILLED IN ON THE SIGN.  
 THE EME REPORT MUST CLEARLY STATE THAT GP LIMIT KEEP-BACK DISTANCE WHEN IT IDENTIFIES THIS SIGN FOR POSTING.  
 IF SIGNS ARE MISSING OR ILLEGIBLE; CONTACT CROWN CASTLE CM PRIOR TO ACCESSING SITE.

(2) CAUTION SIGNS - POLE TOP 3

NOTE:  
 THIS "CAUTION" SIGN MUST BE POSTED ON THE POLE AT 15' AGL AS DETERMINED BY CROWN CASTLE'S EME ANALYSIS ANY TIME THERE IS AN AREA THAT EXCEEDS THE GENERAL PUBLIC (GP) EXPOSURE LIMIT.  
 THE KEEP-BACK DISTANCE FOR THE GP MUST BE FILLED IN ON THE SIGN.  
 THE EME REPORT MUST CLEARLY STATE THAT GP LIMIT KEEP-BACK DISTANCE WHEN IT IDENTIFIES THIS SIGN FOR POSTING.  
 IF SIGN IS MISSING OR ILLEGIBLE; CONTACT CROWN CASTLE CM PRIOR TO ACCESSING SITE.

CAUTION SIGN - CABINET LEVEL 4

NOTE:  
 THE "NOTICE" SIGN MUST BE POSTED NEAR THE BOTTOM OF THE POLE OR ON THE SHROUD ANY TIME THERE IS A ZONE NEAR THE ANTENNAS THAT EXCEEDS THE GENERAL POPULATION (GP) LIMIT.  
 IF SIGN IS MISSING OR ILLEGIBLE; CONTACT CROWN CASTLE CM PRIOR TO ACCESSING SITE.

NOTICE SIGN - AFFIX TO CABINET 5

NOTE:  
 EME ANALYSIS PROVIDED BY CROWN CASTLE

EME PROFILE GRAPHIC 1

NOTE:  
 COVERAGE ANALYSIS PROVIDED BY CROWN CASTLE

COVERAGE MAP 2



PETITION PLAN  
FOR  
BRATTLE ST AT MT AUBURN ST  
IN THE CITY OF CAMBRIDGE, MA

SMALL CELL POWER AND FIBER LATERAL  
NODE HSQ\_013

PREPARED BY:

21 Oxford Rd  
Boston, MA 02111  
www.piketelcom.com  
1-888-317-7500

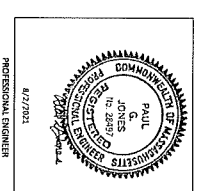
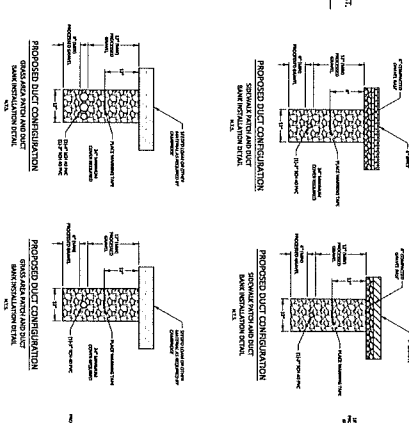
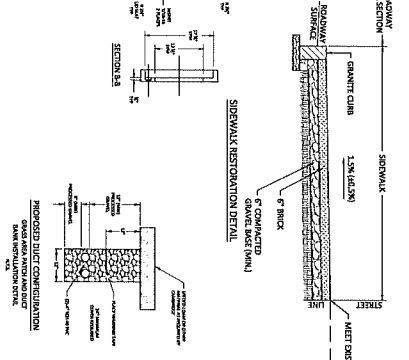
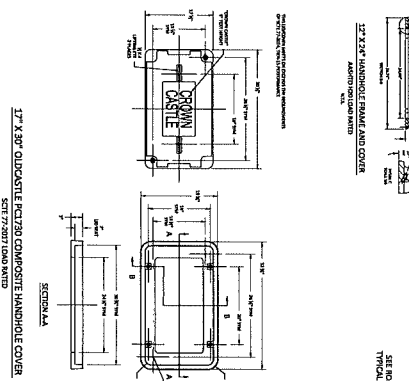
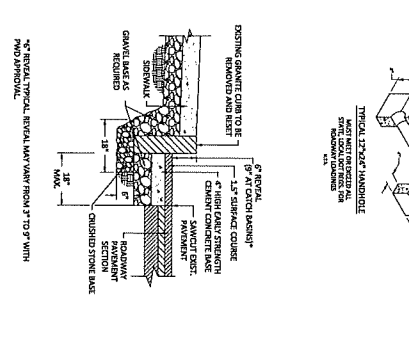
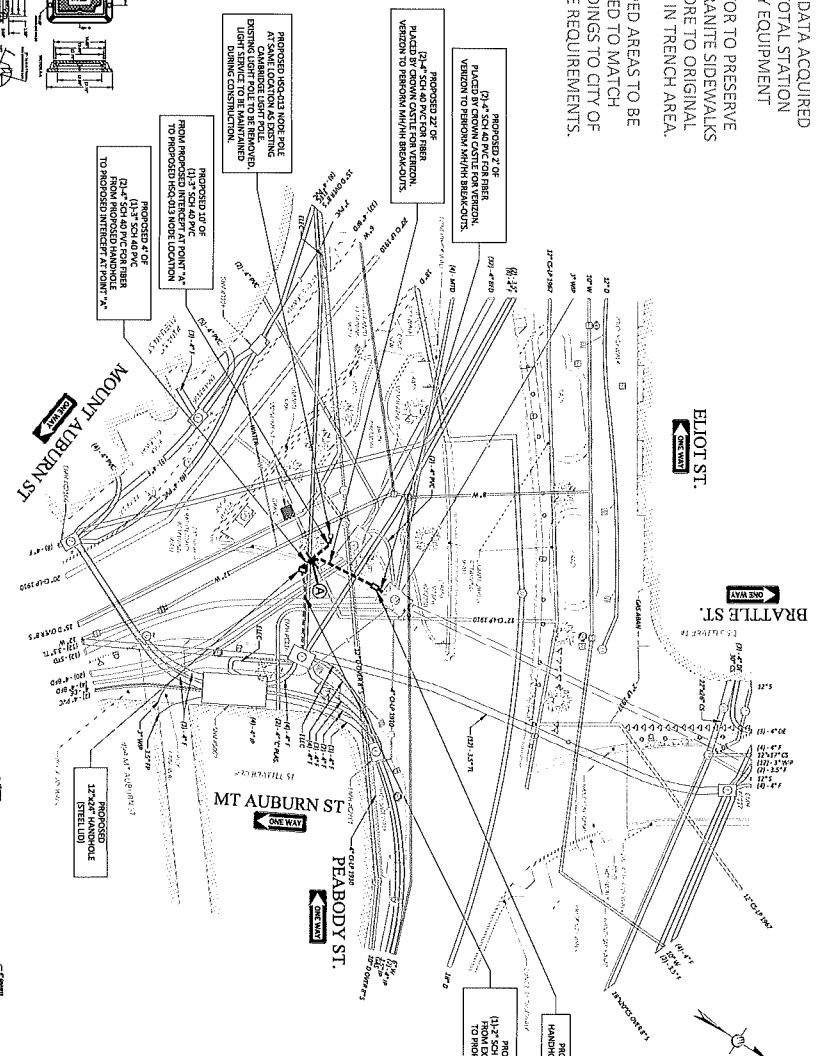
SHEET INDEX

SHEET #	DESCRIPTION
1	COVER STREET
2	PETITION PLAN

**GENERAL NOTES**

1. THE LOCATION OF EXISTING UNRECORDED UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY EXCAVATION WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES.
2. THE CONTRACTOR SHALL MAINTAIN A SEPARATION OF 24 INCHES MIN. WHEN CROSSING EXISTING WATER FACILITIES.
3. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ATTENTION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES AND THE CONTRACTOR SHALL NOT DISTURB PUBLIC UTILITIES.
4. ASSETS OUTSIDE THE LIMITS OF PROPOSED WORK AND OWNED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AND NO EXPENSE TO THE OWNER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING AND MAINTAINING STREETS AND SIDEWALKS WITH EXISTING MATERIALS AND FINISHES. EXISTING STREETS AND SIDEWALKS SHALL BE RESTORED TO ORIGINAL CONDITION AND FINISHES. EXISTING STREETS AND SIDEWALKS SHALL BE RESTORED TO ORIGINAL CONDITION AND FINISHES.
6. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITY LINES FROM EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL EXISTING UTILITY LINES FROM EXCAVATION.
7. THE CONTRACTOR SHALL SERVICE ALL EXISTING TRAFFIC SIGNAL LOOP STANDARDS TO GOOD WORKING CONDITION AS REQUIRED BY THE LATEST STANDARDS OF THE MUNICIPAL TRAFFIC DEPARTMENT.
8. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES SHALL BE PROTECTED AND SUPPORTED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES.
9. THE CONTRACTOR SHALL SERVICE ALL EXISTING TRAFFIC SIGNAL LOOP STANDARDS TO GOOD WORKING CONDITION AS REQUIRED BY THE LATEST STANDARDS OF THE MUNICIPAL TRAFFIC DEPARTMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES.
11. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES SHALL BE PROTECTED AND SUPPORTED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES.
12. THE CONTRACTOR SHALL SERVICE ALL EXISTING TRAFFIC SIGNAL LOOP STANDARDS TO GOOD WORKING CONDITION AS REQUIRED BY THE LATEST STANDARDS OF THE MUNICIPAL TRAFFIC DEPARTMENT.
13. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES SHALL BE PROTECTED AND SUPPORTED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SUPPORT OF ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE UTILITIES.

ALL FIELD DATA ACQUIRED USING TOTAL STATION SURVEY EQUIPMENT CONTRACTOR TO PRESERVE BRICK OR GRANITE SIDEWALKS AND RESTORE TO ORIGINAL CONDITION IN TRENCH AREA. LANDSCAPED AREAS TO BE RESTORED TO MATCH SURROUNDINGS TO CITY OF CAMBRIDGE REQUIREMENTS.



FOUR-WAY SPOTLIGHT POLE FOR PERMITTING ONLY

1" = 20 FEET (PRINTED 22X34)  
 1" = 40 FEET (PRINTED 11X17)

LEGEND	DESCRIPTION
X	EXISTING POLE
○	PROPOSED POLE
□	PROPOSED HANDHOLE
○	PROPOSED 24" x 24" HANDHOLE
○	PROPOSED 36" x 36" HANDHOLE
○	PROPOSED 24" x 36" HANDHOLE
○	PROPOSED 36" x 24" HANDHOLE
○	PROPOSED 24" x 24" HANDHOLE FOR GAS
○	PROPOSED 24" x 24" HANDHOLE FOR ELECTRIC
○	PROPOSED 24" x 24" HANDHOLE FOR POWER
○	PROPOSED 24" x 24" HANDHOLE FOR WATER
○	PROPOSED 24" x 24" HANDHOLE FOR SEWER
○	PROPOSED 24" x 24" HANDHOLE FOR TELEPHONE
○	PROPOSED 24" x 24" HANDHOLE FOR CABLE
○	PROPOSED 24" x 24" HANDHOLE FOR FIBER
○	PROPOSED 24" x 24" HANDHOLE FOR OTHER

**PIKE TELECOM**  
 31 Gould St.  
 Cambridge, MA 02142  
 617-552-9100  
 1750-277-0029

**CROWN CASTLE**

PROPOSED BY: PIKE TELECOM

DATE: 04/27/2021

PROJECT: H30-023 - BRATTLE ST AT MT AUBURN ST

DATE: 04/27/2021

SCALE: AS SHOWN

DATE: 04/27/2021

DATE: 04/27/2021

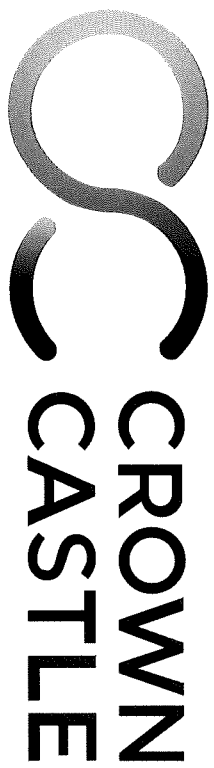
NO.	DATE	DESCRIPTION
1	04/27/2021	ISSUED FOR PERMITTING

DATE: 04/27/2021

DATE: 04/27/2021

DATE: 04/27/2021

DATE: 04/27/2021



TRAFFIC MANAGEMENT PLAN  
FOR

PROPOSED CONDUIT INSTALLATION  
BRATTLE SQUARE  
CAMBRIDGE, MA

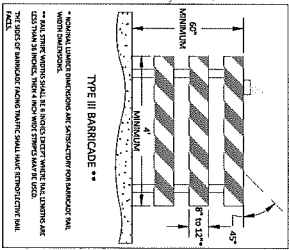
SMALL CELL POWER AND FIBER LATERAL  
NODE HSQ\_013

PREPARED BY:

21 Oxford Rd  
Mansfield, MA 02048  
www.pke.com  
1-508-537-7800

SHEET INDEX

SHEET #	DESCRIPTION
1	COVER SHEET
2	TRAFFIC MANAGEMENT PLAN - PHASE 1
3	TRAFFIC MANAGEMENT PLAN - PHASE 2

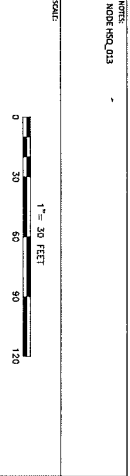


**NOTES**

EXISTING UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.

**NEW WATER MAIN 15" DIAMETER AND 12" DEPTH AND ITS TRENCH**

**Disposal** CALL 617.624.5500 OR 1-888-DIG-SAFE



**NOTES**

CONTRACTOR TO PLACE SIGNAGE TO ADVISE TRAFFIC OF THE PRESENCE OF THE WORK. POLICE DETAIL OFFICERS TO SET UP POLICE DETAIL AS NEEDED IN FIELD.

**NOTES**

TRAFFIC RESTRICTION ACCESS AT ALL TIMES MUST BE MAINTAINED.

PROVIDED BY:

**PIKE TELECOM**

131 South St. Cambridge, MA 02142  
781.383.7700

**CROWN CASTLE**

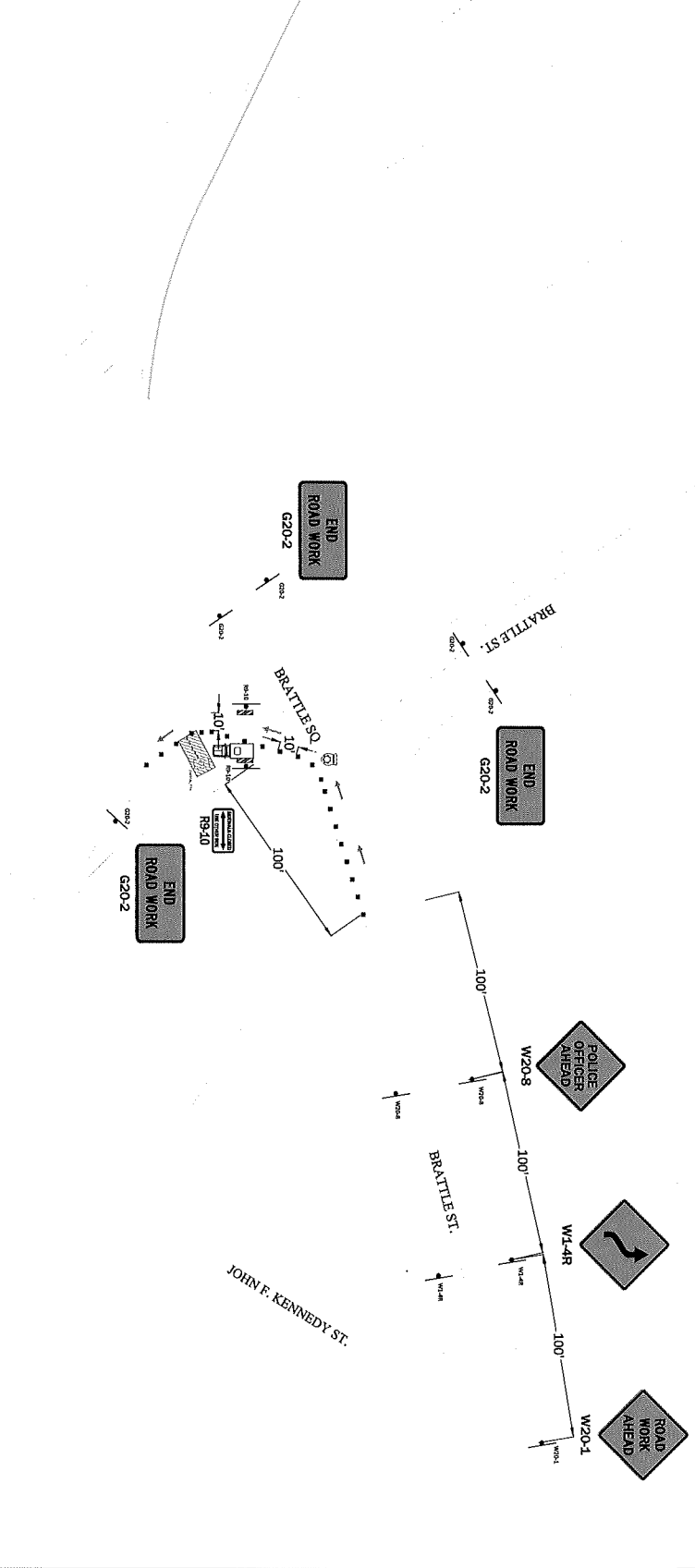
**TITLE**

TRAFFIC MANAGEMENT PLAN - PHASE I

UNDER SIG. 013

BRATTLE ST. CAMBRIDGE, MA

DRAWN BY:	DATE:	SCALE:
ASB	02/11/2021	1" = 30'



**PHASE I**

**TRAFFIC LEGEND**

---	WORK ZONE
- - - - -	PROPOSED TRENCH
█	CHANNELIZING DEVICE (COND)
○	DRUM
▲	SIGN
☎	POLICE DETAIL
○	SINGLE PARKING METER
○	DOUBLE PARKING METER
○	VARIABLE MESSAGE BOARD
○	ARROW BOARD
█	TYPE I BARRICADE
█	HIGH LEVEL WARNING DEVICE
█	CONSTRUCTION TRUCK
█	THICK MOUNTED ATTENUATOR
→	TRAFFIC FLOW
→	TRAFFIC FLOW
→	TRAFFIC FLOW
→	2-WAY TRAFFIC

**NOTES**

ALL WORK SIGNAGE TO BE MAINTAINED ON SELF SUPPORTING SIGNS AT ALL TIMES AND NOT TO BE REMOVED OR DAMAGED.

**FREE STANDING SELF SUPPORTING SIGN**

MINIMUM CLEARANCE: 14'-0"

MINIMUM WIDTH: 4'-0"

MINIMUM HEIGHT: 8'-0"

MINIMUM SPACING: 10'-0"

MINIMUM SETBACK: 10'-0"

MINIMUM CLEARANCE: 14'-0"

MINIMUM WIDTH: 4'-0"

MINIMUM HEIGHT: 8'-0"

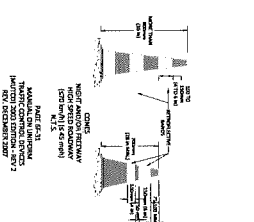
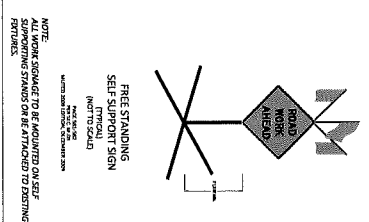
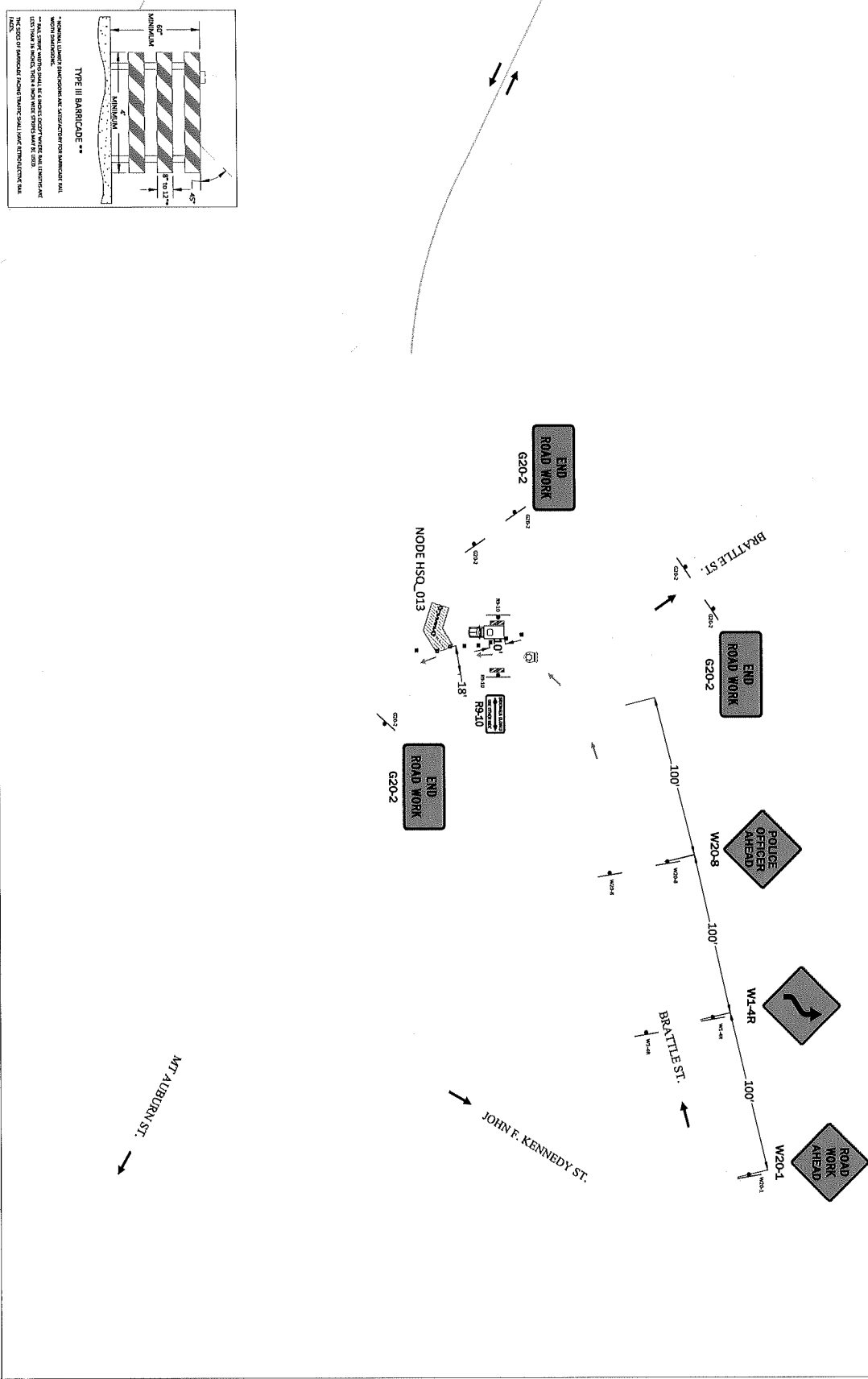
MINIMUM SPACING: 10'-0"

MINIMUM SETBACK: 10'-0"

**PHASE II**

**TRAFFIC LEGEND**

	WORK ZONE
	PROPOSED TRENCH
	CHANNELIZING DEVICE (CON)
	DRUM
	SIGN
	POLICE DETAIL
	SINGLE PARKING METER
	DOUBLE PARKING METER
	VARIABLE MESSAGE BOARD
	ARROW BOARD
	TYPE 3 BARRICADE
	HIGH LEVEL WARNING DEVICE
	CONSTRUCTION TRUCK
	TRAFFIC FLOW
	TRAFFIC FLOW
	TRAFFIC FLOW
	TRAFFIC FLOW
	2 WAY TRAFFIC



NO. 1	DESCRIPTION	DATE	NOTE
<p><b>NOTE:</b> THE APPROXIMATE AND DISTANT LINES SHALL BE CONNECTED TO THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PIPES AND UTILITIES TO BE EXCAVATED.</p>			
<p><b>NOTE:</b> CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PIPES AND UTILITIES TO BE EXCAVATED.</p>			
<p><b>SCALE:</b></p> <p>1" = 30 FEET</p> <p>0 30 60 90 120</p>			

**NOTE:** CONTRACTOR TO PLACE SIGN AND TO BE IN POSITION TO BE SEEN BY TRAFFIC. CONTRACTOR TO SET UP SIGN POSITION AS INDICATED IN FIELD.

**NOTE:** CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES TO BE EXCAVATED.

**PREPARED BY:**

**PIKE TELECOM**

**CROWN CASTLE**

TITLE	TRAFFIC MANAGEMENT PLAN - PHASE II		
PROJECT	BRATTLE ST CAMBODGE, MA		
DRAWN BY:	ASB	SCALE:	1"=30'
CHECKED BY:	ASB	DATE:	05/27/11

