



CAMBRIDGE HISTORICAL COMMISSION

831 Massachusetts Avenue, 2nd Fl., Cambridge, Massachusetts 02139

Telephone: 617 349 4683 TTY: 617 349 6112

E-mail: histcomm@cambridgema.gov URL: www.cambridgema.gov/Historic

RECEIVED

AUG 10 2021

CAMBRIDGE HISTORICAL
COMMISSION

APPLICATION FOR CERTIFICATE

- 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.
- Address of property: Intersection of Story & Mt Auburn St, Cambridge, Massachusetts
- 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 to install a small cell at an existing city of Cambridge street light location in the Harvard Square Conservation District. With the installation the height of the pole would increase from 27' 6" to 32'-8".

The proposed equipment would be (1) amphenol antenna, (1) Apelio RCEN-Slim-361812, (2) Commscope ion-ML radios, and (1) PTS90X1 disconnect load center. Information on the equipment can be found in the attached node profile drawings.

For the underground work Crown Castle is proposing to install 100' of (2) 4" pvc for fiber from VZMH #26/579 to proposed Crown Castle hand hole. Then installing 6' of (1) 2" PVC for fiber from CC proposed handhole to proposed handhole. Then proposed 4' of (1) 3" PVC from proposed hand hole to proposed HSQ-020 location. For power 23' installation of (1) 2" PVC from EMH #C1403T to proposed handhole. For more information on proposed underground work please see attached P-Plans.

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: _____

(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: 4648 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.

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-020
SITE TYPE: SCU# 464625
DRAWING DESCRIPTION: 28'-7" STREETLIGHT POLE
PERMIT DRAWING

SITE INFORMATION

LATITUDE (NAD83): 42° 27' 25.14"
LONGITUDE (NAD83): 71° 07' 23.67"
COUNTY: MIDDLESEX
ZONING JURISDICTION: CITY OF CAMBRIDGE
ZONING DISTRICT: CZ RESIDENCE
POWER COMPANY: VERIZON NEW ENGLAND
TELEPHONE NUMBER: 404 COMPLIANCE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ALL ADA SITE REQUIREMENTS ARE MET OR ARE NOT APPLICABLE.

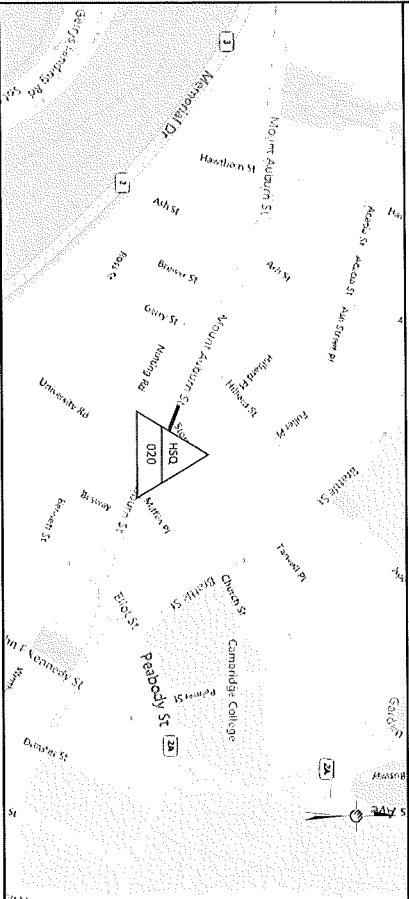
PROJECT TEAM

BACKGROUND 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) 632-0931 AND THE CROWN CASTLE ON PRIOR TO ACCESSING SITE

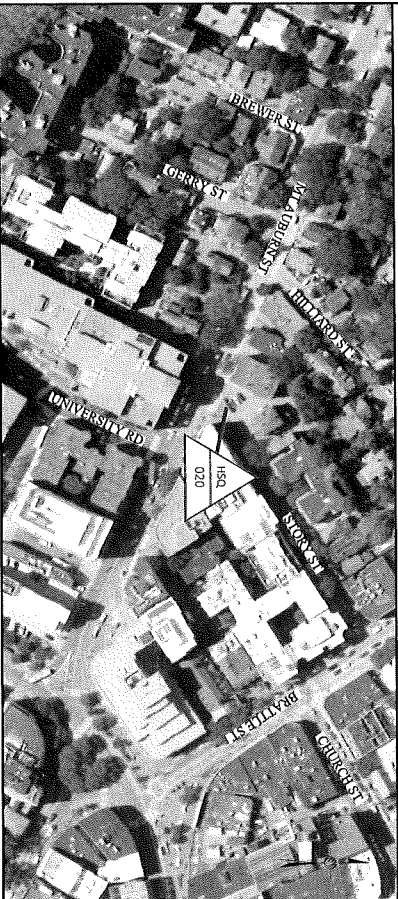
DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL DIMENSION ALL UTILITIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

AREA MAP



LOCATION MAP



DRAWING INDEX

SH #	TITLE SHEET	SHEET DESCRIPTION
T-1	GENERAL NOTES	
GN-1,2,3,4	OVERALL SITE PLAN	
A-1	PROFILE	
A-2	PHOTOGRAPHIC SIMULATION	
A-3,4,5,6	SHROUD DETAILS	
A-7	EQUIPMENT DETAILS	
A-8	4G ANTENNA DETAILS	
A-9	5G ANTENNA AND SIGNAGE	
A-10	RF COUPLING DIAGRAM	
A-11	FIBER DIAGRAM	
A-12	ELECTRICAL WIRING DIAGRAM	
A-13	DISCONNECT DETAILS	
E-1	POLE SPECS DETAIL	
P-1	STRUCTURAL	
F-1	FOUNDATION DETAIL	

PROJECT EQUIPMENT

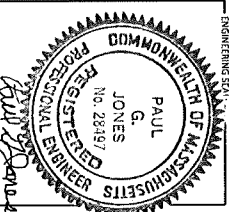
- NEW CROWN CASTLE INSTALLED EQUIPMENT**
- (1) AMPENLO JCUJMTN36006F0250 ANTENNA
 - (1) APBLO RBN-SLM-361812 ENCLOSURE
 - (2) COMMSCOPE ION-MIL RADIOS

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 - LIGHTING PROTECTION CODE
 - UNIFORM PLUMBING CODE
 - NATIONAL ELECTRICAL CODE
 - 2017 NATIONAL ELECTRICAL SAFETY CODE

811 Dig Safe
 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 CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.



7/21/2021

DRAWING NOTES:
 THESE DOCUMENTS ARE CONSIDERED AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR DISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.

REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL 06/21/23	
1	UPDATE EQUIPMENT	GL 05/07/24	

SITE CASCADE: HSQ-020
SCU# 464625



SITE ADDRESS: 89 STORY ST
 CAMBRIDGE, MA 02138
POLE# N/A

SHEET DESCRIPTION: TITLE SHEET

SHEET NUMBER: T-1

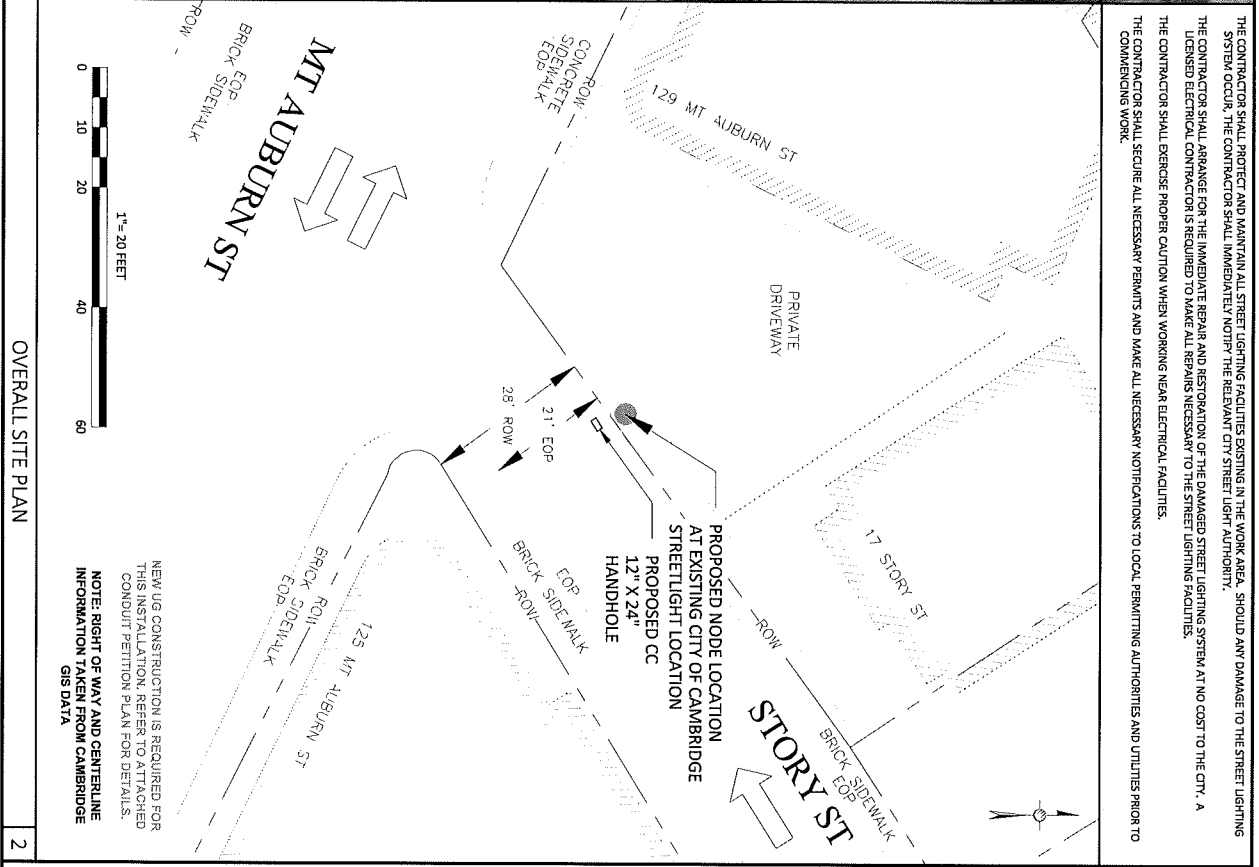
1. GENERAL PROVISIONS
- 1.1. CONTRACT OVERSIGHT
- 1.2. THE INTENTION OF THESE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND MATERIALS REQUISITE, WHETHER OR NOT SPECIALLY PROVIDED, FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK UNDER THIS CONTRACT. THE INTENT OF THESE DOCUMENTS IS NOT TO BE CONSIDERED AS A GUARANTEE OF THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES, STANDARDS, AND SUPPLEMENTS:
 - IBC - INTERNATIONAL BUILDING CODE
 - IBC - INTERNATIONAL ELECTRICAL CODE
 - IBC - INTERNATIONAL MECHANICAL CODE
 - NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
 - OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 - ANSI/TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION - 223-D STANDARD
 - ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND ORDINANCES
3. THE ENGINEERING DRAWINGS SHOW PRINCIPAL DETAILS WHERE WORK MUST BE ACCOMPLISHED UNDER THE CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ENGINEERING DRAWINGS DUE TO CHANGES AFFECTING EXISTING ELECTRICAL OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
4. DO NOT ESTIMATE DIMENSIONS BY MEASURING DRAWINGS. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.
5. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. HOWEVER, NO CHANGE THAT ALTERS THE QUALITY AND MEAN OF THE DESIGN WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT A CHANGE ORDER.
6. GENERAL CIVIL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES INVOLVED IN THE PROJECT AND TO ALL APPLICABLE CODES AND REGULATIONS.
7. THE GENERAL NOTES CONTAINED HEREIN ARE PART OF THE PLANS AND SPECIFICATIONS AND ARE TO BE COMPLIED WITH IN ALL RESPECTS. THE MOST RESTRICTIVE NOTES SPECIFIED ARE TO TAKE PRECEDENCE. CERTAIN SECTIONS OF THE GENERAL NOTES MAY NOT APPLY TO EVERY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE GENERAL NOTES IN ALL RESPECTS.
8. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
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1. BEFORE BEGINNING WORK AT THE SITE, THE CONTRACTOR SHALL INSPECT THE EXISTING PROPERTY OR BUILDING AND DETERMINE THE EXISTING OR EXISTING FINISHES, SPECIALTIES, EQUIPMENT AND OTHER ITEMS WHICH MUST BE REMOVED AND REINSTALLED IN ORDER TO PERFORM THE WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
2. BY SIGNING THIS CONTRACT, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS THOROUGHLY REVIEWED AND UNDERSTOOD THE CONSTRUCTION DOCUMENTS, INCLUDING ALL ATTACHED CONSTRUCTION CONTRACTS.
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4. NO PART OF (INCLUDING) ANYTHING THAT MAY BE CONSIDERED AS PART OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED WILL BE ACCEPTED AS A BASIS FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL THE REQUIREMENTS OF THE CONTRACT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
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 <p>PLANS PREPARED BY: CROWN CASTLE</p>	 <p>PLANS PREPARED BY: PDK TELECOM</p>	<p>FOR PERMITTING PURPOSES ONLY</p>												
<p>ENGINEERING DATE: _____</p>														
<p>DRAMAING NOTE: THESE DOCUMENTS ARE CONSENTUAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR DISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE</p>														
<p>REVISIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>ORIGINAL</td> <td>GL</td> <td>04/27/23</td> </tr> <tr> <td>1</td> <td>UPDATE EQUIPMENT</td> <td>GL</td> <td>05/07/23</td> </tr> </tbody> </table>	REV	DESCRIPTION	BY	DATE	0	ORIGINAL	GL	04/27/23	1	UPDATE EQUIPMENT	GL	05/07/23		
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1	UPDATE EQUIPMENT	GL	05/07/23											
<p>SITE OSCUOE: _____</p>														
<p>SITE OSCUOE: HSQ-020 SCUH 464625</p>														
<p>SITE ADDRESS: 89 STORY ST CAMBRIDGE, MA 02138 POLDER N/A</p>														
<p>SHEET DESCRIPTION: _____</p>														
<p>GENERAL NOTES</p>														
<p>SHEET NUMBER: GN-1</p>														



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:

CROWN CASTLE

PLANS PREPARED BY:

PIKE TELECOM

21 Oxford Rd
Waltham, MA 02458
1-508-337-7800

FOR PERMITTING PURPOSES ONLY

ENGINEERING SEAL

DRAWING NOTICE:

THESE DOCUMENTS ARE CONFIDENTIAL AND THE SOLE PROPERTY OF CROWN CASTLE. ANY REPRODUCTION, DISSEMINATION OR REDISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.

REVISIONS:

REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	04/21/21
1	UPDATE EQUIPMENT	GL	06/07/21

SITE SKETCH:

HSQ-020
SCU# 464625

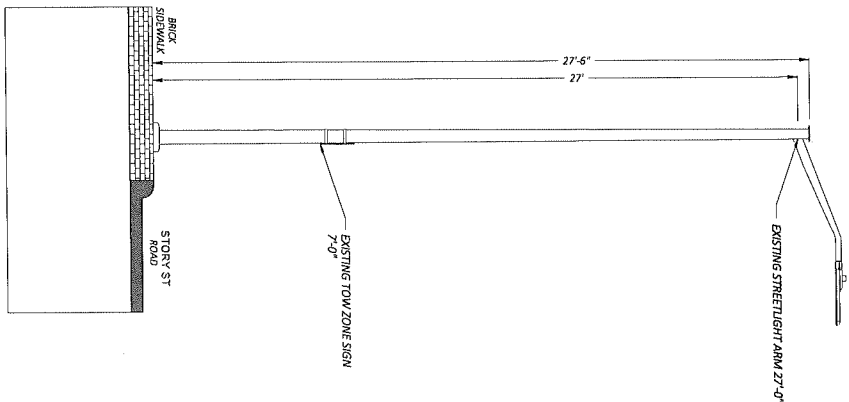
SITE ADDRESS:
89 STORY ST
CAMBRIDGE, MA 02138
POLE# N/A

SHEET DESCRIPTION:
OVERALL SITE PLAN

SHEET NUMBER:
A-1

DocuSign Envelope ID: 02E0C79A-AF81-B6F4-A8E1E5A8F970

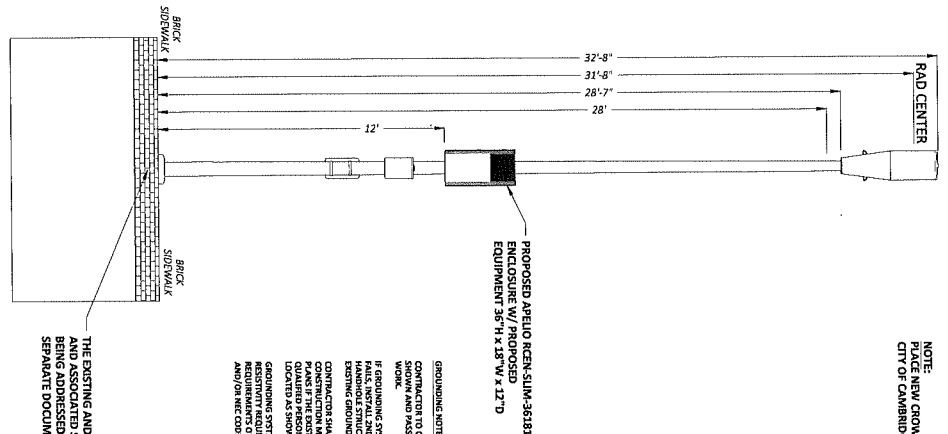
- NOTE:
1. ALL EQUIPMENT UNITS SHALL MEET ALL CLEARANCE REQUIREMENTS FROM OVERHEAD POWER LINES AS DESCRIBED IN THE LATEST EDITION OF THE NEC AND BY LOCAL UTILITY REGULATIONS.
 2. ALL EQUIPMENT SHALL BE PROTECTED FROM VANDALISM BY THE INSTALLATION OF AN ANTI-VANDAL COVER, OR MILLING / CUTTING OF METALLIC POLLS TO BE ALLOWED TO BE OPENED.
 3. POWER SUPPLY SERVICE CONNECTION AND OTHER OPTIC CABLE CONNECTION TO BE MADE TO THE EQUIPMENT SHALL BE MADE TO THE EQUIPMENT AS SHOWN ON THIS SHEET.
 4. NO DISTURB OR FUTURE ASBESTOS ATTACHMENTS ARE TO BE MADE TO THIS POLE. NEW EQUIPMENT/UNITS SHALL BE MOUNTED TO EXISTING EQUIPMENT. FUTURE EQUIPMENT SHALL BE MOUNTED TO EXISTING EQUIPMENT. FUTURE EQUIPMENT SHALL BE MOUNTED TO EXISTING EQUIPMENT. FUTURE EQUIPMENT SHALL BE MOUNTED TO EXISTING EQUIPMENT.



EXISTING PROFILE
FACING NORTHEAST ALONG STORY ST

1

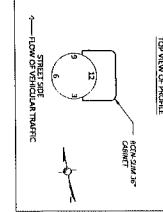
- SITE IS BASED ON DRAWINGS AND STRUCTURAL ANALYSIS FOR CROWN CASTLE TYPICAL EXHIBIT X-15.
- ENGINEERING NOTES:
1. THE DRAWING AND ALL DETAILS, DRAWINGS, AND PROPOSALS CONTAINED HEREIN ARE STRICTLY FOR PERMITTING PURPOSES ONLY. THE DRAWING IS NOT TO BE USED AS A CONSTRUCTION DOCUMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND/OR OTHER DESIGNATED AGENCIES.
 2. THE CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND/OR OTHER DESIGNATED AGENCIES.
 3. THE CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND/OR OTHER DESIGNATED AGENCIES.
 4. THE CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND/OR OTHER DESIGNATED AGENCIES.



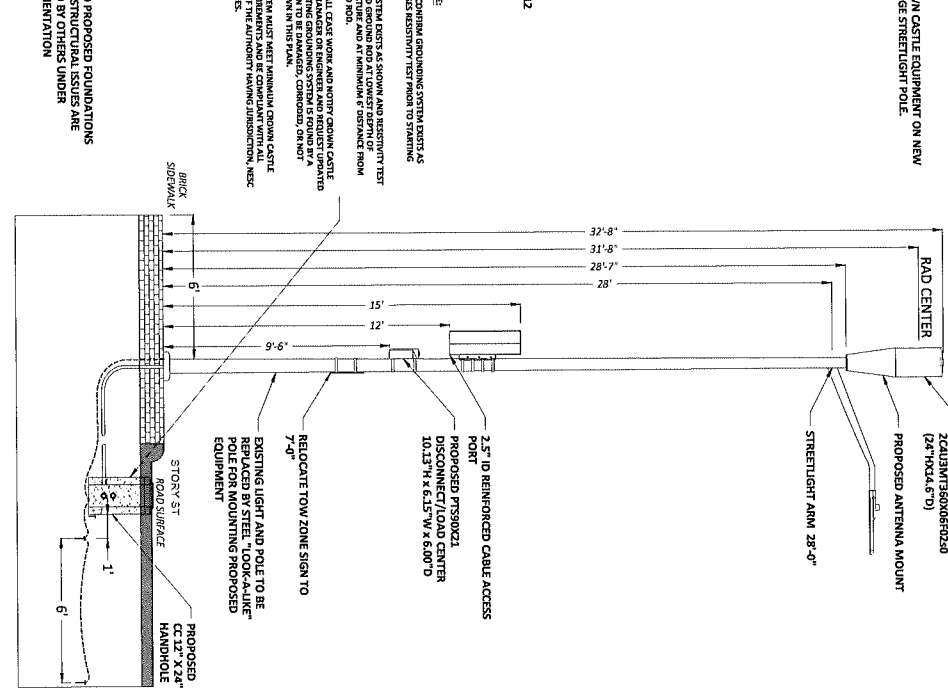
PROPOSED PROFILE
FACING SOUTHWEST TOWARDS STORY ST

INSTALL EQUIPMENT ON PROPOSED STREETLIGHT POLE

2



- NOTE:
- FROM THE TIME IT MAY BE NECESSARY TO MAKE MINOR ADJUSTMENTS TO THE DRAWING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND/OR OTHER DESIGNATED AGENCIES.
- THE CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND/OR OTHER DESIGNATED AGENCIES.



PROPOSED PROFILE
FACING NORTHEAST ALONG STORY ST

2

PLANS PREPARED FOR: **CROWN CASTLE**

PLANS PREPARED BY: **PRKE TELECOM**

21 Oxford Rd
Haverhill, MA 02348
www.prketelecom.com
1-800-531-7989

FOR PERMITTING PURPOSES ONLY

ENGINEERING SEAL

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	EL	04/27/21
1	UPDATE EQUIPMENT	EL	05/07/21

REVISIONS:

SITE DATE: **HSQ-020**

SITE ADDRESS: **89 STORY ST CAMBRIDGE, MA 02138**

POLE# **N/A**

SHEET DESCRIPTION: **PROFILE**

SHEET NUMBER: **A-2**



EXISTING PHOTOGRAPHIC VIEW - FACING SOUTHWEST

1



PROPOSED PHOTOGRAPHIC SIMULATION - FACING SOUTHWEST

2

PROPOSED AMPHENOL ANTENNA
ZCUBANT1350X6R0250
(24" H X 4.5" D)
PROPOSED ANTENNA MOUNT

PROPOSED ARDUINO
RCEN-SLIM-361812 ENCLOSURE
W/ PROPOSED EQUIPMENT
36.5" H X 28" W X 12.5" D

PROPOSED P150X21
DISCONNECT/LOAD CENTER
10.13" H X 5.5" W X 6.0" D

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
PIKE TELECOM
21 Oxford Rd
Marlborough, MA 01752
1-508-337-7800

FOR PERMITTING PURPOSES ONLY

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REVISIONS:

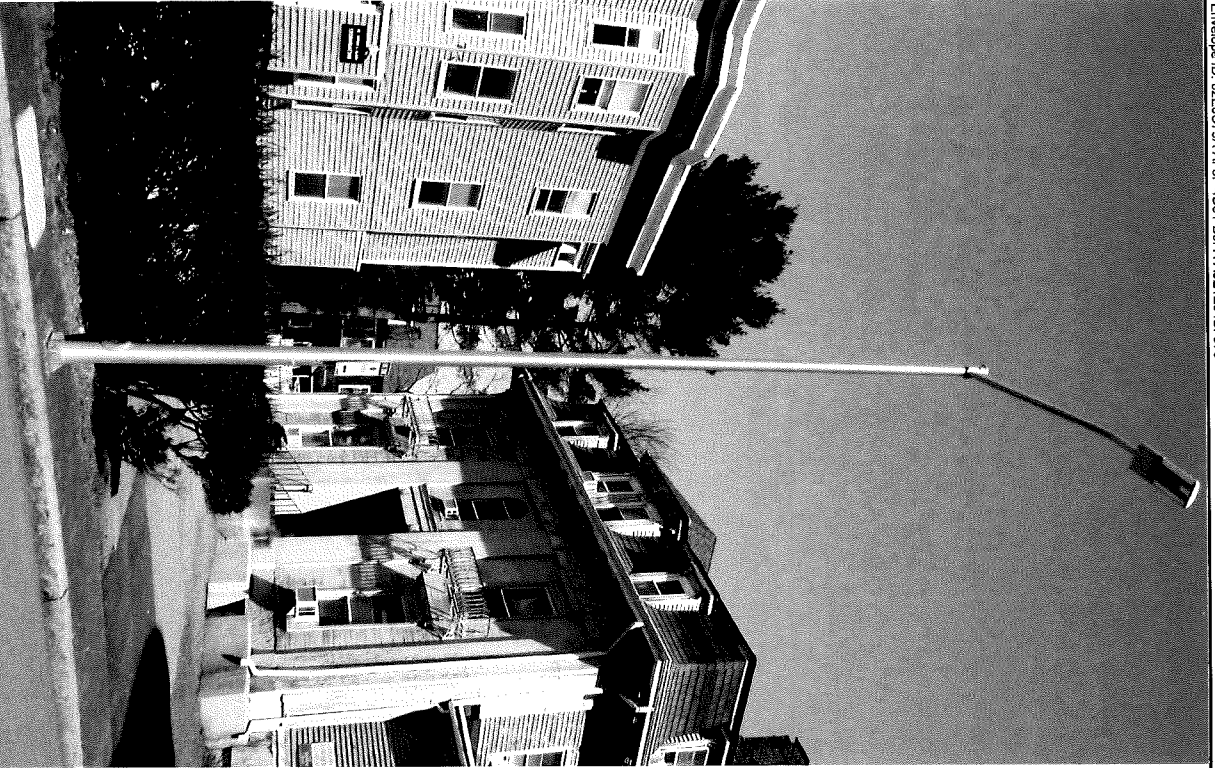
REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	04/21/25
1	UPDATE EQUIPMENT	GL	05/07/25

SITE OSCODE: **HSQ-020**
SCU# 464625

SITE ADDRESS: **89 STORV ST**
CAMBRIDGE, MA 02138
POLE# N/A

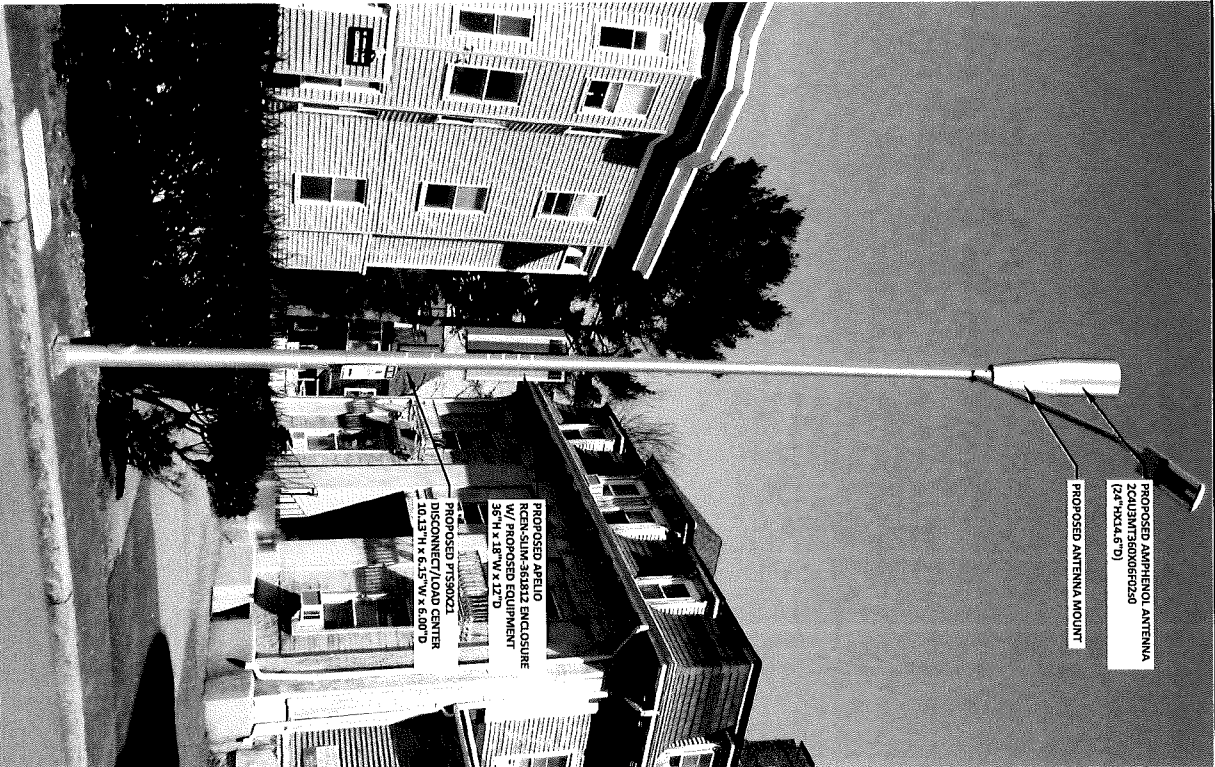
SHEET DESCRIPTION: **PHOTOGRAPHIC SIMULATION**

SHEET NUMBER: **A-3**



EXISTING PHOTOGRAPHIC VIEW - FACING NORTH

1



PROPOSED PHOTOGRAPHIC SIMULATION - FACING NORTH

2

PROPOSED AMPHENOL ANTENNA
Z04UM1676006R0250
(24 7'00.6 5' 0")

PROPOSED ANTENNA MOUNT

PROPOSED APPLIED
REGEN-SALINE-818322 ENCLOSURE
N/A/PROPOSED EQUIPMENT
36" W x 24" H
PROPOSED P739021
DISCONNECT/LOAD CENTER
10.13' H x 6.15' W x 6.00' D

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

PIKE TELECOM

31, Duval Rd
Mantoloking, NJ 07048
www.piketelcom.com
1-888-337-7080

FOR PERMITTING PURPOSES ONLY

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	06/27/21
1	UPDATE EQUIPMENT	GL	05/07/21

SITE OSQ#:

HSQ-020
SCU# 464625

SITE ADDRESS:

89 STORY ST
CAMBRIDGE, MA 02138
POLL# N/A

SHEET DESCRIPTION:

PHOTOGRAPHIC SIMULATION

SHEET NUMBER:

A-4



EXISTING PHOTOGRAPHIC VIEW - FACING WEST

1



PROPOSED PHOTOGRAPHIC SIMULATION - FACING WEST

2

PLANS PREPARED FOR: **CROWN CASTLE**

PLANS PREPARED BY: **PKTELECOM**
 21 South St.
 Suite 1000
 Cambridge, MA 02138
 www.pktelecom.org
 1-800-337-7600

FOR PERMITTING PURPOSES ONLY

ENGINEERING SCALE:

DRAWING NOTES:
 THESE PLANS AND PROFILES ARE CONSIDERED PRELIMINARY AND ARE NOT TO BE REPRODUCED, DISSEMINATED OR REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.

REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	06/21/21
1	UPDATE EQUIPMENT	GL	05/07/21

SITE OS&CODE: **HSQ-020**
SCU# 484625

SITE ADDRESS: **88 STORY ST**
CAMBRIDGE, MA 02138
POLICE N/A

SHEET DESCRIPTION: **PHOTOGRAPHIC SIMULATION**

SHEET NUMBER: **A-5**



EXISTING PHOTOGRAPHIC VIEW - FACING NORTHEAST

1



PROPOSED PHOTOGRAPHIC SIMULATION - FACING NORTHEAST

2

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
PIKE TELECOM
 21 Oxford Rd
 Framingham, MA 02048
 www.piketelecom.com
 1-888-331-7889

FOR PERMITTING PURPOSES ONLY

ENGINEERING SEAL:

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 THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR RESTRICTED WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.

PROPOSED APPLIED RENC-SLIM-361812 ENCLOSURE W/ PROPOSED EQUIPMENT 36" H X 18" W X 12" D

PROPOSED PFS90X21 DISCONNECT/LOAD CENTER 18" H X 12" W X 6" D

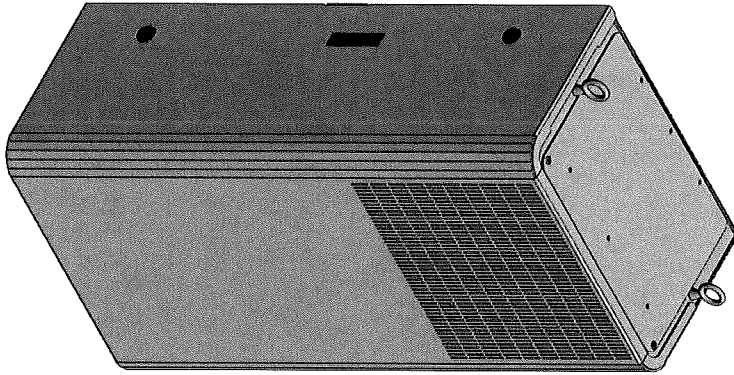
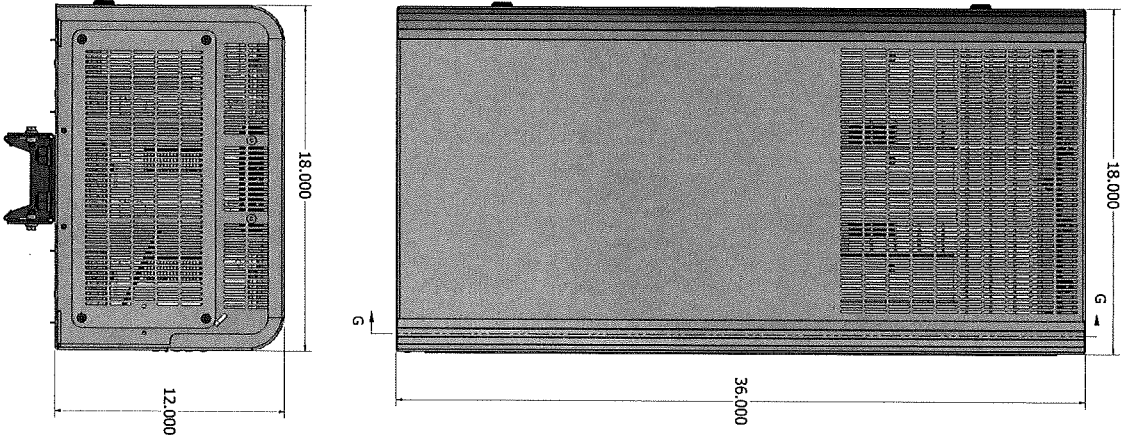
REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	10/12/21
1	UPDATE EQUIPMENT	GL	05/07/23

SITE OSGOODE: **HSQ-020**
 SCU#: **464625**

SITE ADDRESS:
 89 STORY ST
 CAMBRIDGE, MA 02138
 POLE# N/A

SHEET DESCRIPTION:
PHOTOGRAPHIC SIMULATION

SHEET NUMBER:
A-6



RCEN-SLIM-361812

1

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

PKE TELECOM
 21 Oxford Rd
 Hudson, MA 01824
 www.pketelecom.com
 1-308-337-7600

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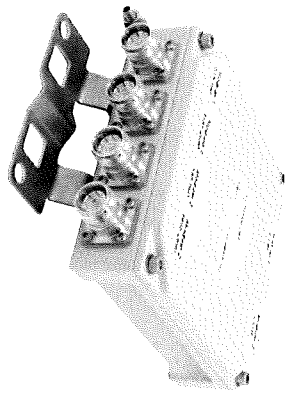
REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	04/21/21
1	UPDATE EQUIPMENT	GL	05/07/21

SITE ORIGINATOR:
 HSQ-020
 SCU# 464625

SITE ADDRESS:
 89 STORY ST
 CAMBRIDGE, MA 02138
 POLE# N/A

SHEET DESCRIPTION:
 SHROUD DETAILS

SHEET NUMBER:
 A-7



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

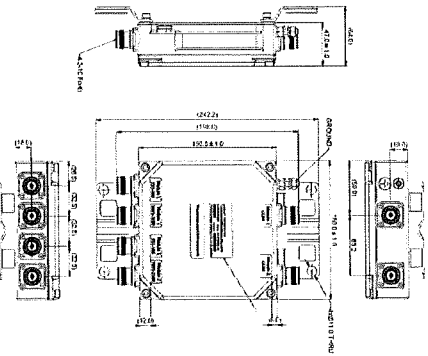
- Full performance in a fraction of the size
- High power handling
- Includes 600 MHz and AWS-3/4 bands
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG pass-through on low frequency port

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)

1

7825719-0002 | CAP H 7E/80-85/17E/19 F-AC-F1



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

Product Type Access point
 Product Brand ERA®

General Specifications

Minimum Software Requirement ION-E 5W/27
 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
 Features, Inband link ±2 dB
 Impedance 50 ohm
 License Band AWS 1700 | CEL 850 | LMR 750 | PCS 1900 | SMR 800 | USA 700 | USA

CAP-H 7E/80-85/17E/19 F-AC-F1

2



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ENGINEERING SEAL

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REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	06/21/21
1	UPDATE EQUIPMENT	GL	06/07/21

SITE OS&CODE: HSQ-020
 SCU# 464625

SITE ADDRESS: 89 STORY ST
 CAMBRIDGE, MA 02138
 POLE# N/A

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

2C4U3MT360X06FxyS0

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

RF CONNECTORS

Frequency Range (MHz)	LOW	MID	CBRS	LAA
Frequency Range	(2x) 696-960	(4x) 1695-2700	(2x) 3550-3700	(1x) 5150-5925
Array	<input type="checkbox"/> R1 <input type="checkbox"/> R2 <input type="checkbox"/> Y1 <input type="checkbox"/> Y2 <input type="checkbox"/> Y3 <input type="checkbox"/> Y4		<input type="checkbox"/> P1 <input type="checkbox"/> P2	<input type="checkbox"/> O1
Connector	4 PORTS	8 PORTS	4 PORTS	2 PORTS
Polarization	XPOL	XPOL	XPOL	XPOL
Armsh Beamwidth (3 dB)	360°	360°	360°	360°
Electrical Down tilt	0°	2°, 4°, 6°	0°	0°
Configuration	OMNI CONFIGURATION			
Total Connector Count	18 PORTS			
Connector Type	4.3-10 FEMALE			
Dimensions	610 x 6371 mm (24.0 x 250.4 in)			
Radome Color Options	GREY BROWN or BLACK			

ELECTRICAL SPECIFICATIONS

Parameter	Low Band	R1	R2
Frequency Range	MHz	(2x) 696-960	
Frequency Sub-Range	MHz	696-806	806-960
Polarization		(2x) =45°	
Gain	dBd	4.2 ± 0.9	3.9 ± 0.7
MAX	dBd	5.1	4.6
Armsh Beamwidth (3 dB)	degrees	360°	360°
Elevation Beamwidth (3 dB)	degrees	96.9° ± 26.7°	72.0° ± 21.7°
Electrical Down tilt	degrees	(N/A) 0°	
Impedance	Ohms	50	
VSWR	dBc	< 1.51	
Passive Intermodulation 3rd Order for 2x20 W Carriers	dB	< -153	
Upper Sideband Suppression	dB	N/A	
Isolation Inband	dB	25	
Isolation Outband	dB	> 28	
Input Power	Watts	500W	

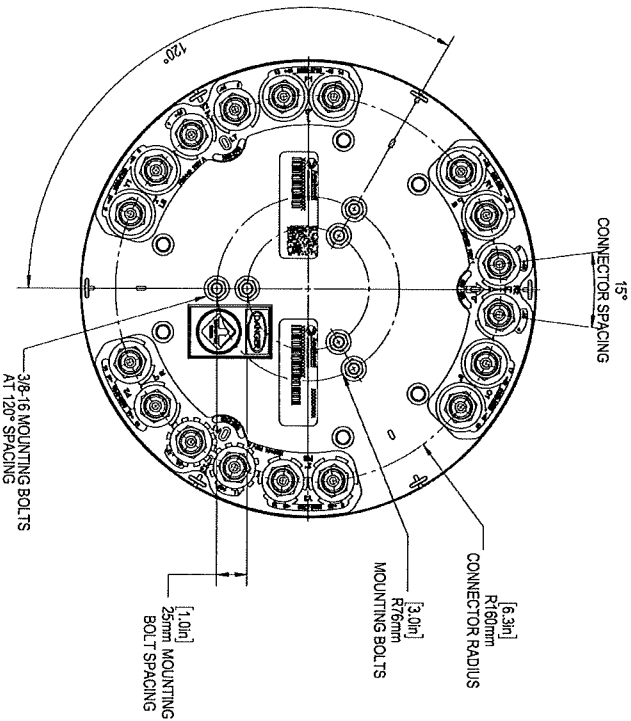
2C4U3MT360X06FxyS0 1



18-Port Canister Antenna
 (2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz
 OMNI | 24 IN. | FIXED TILT

2C4U3MT360X06FxyS0

BOTTOM VIEW - CONNECTOR DIAGRAM



2C4U3MT360X06FxyS0 - PORT DIAGRAM 2



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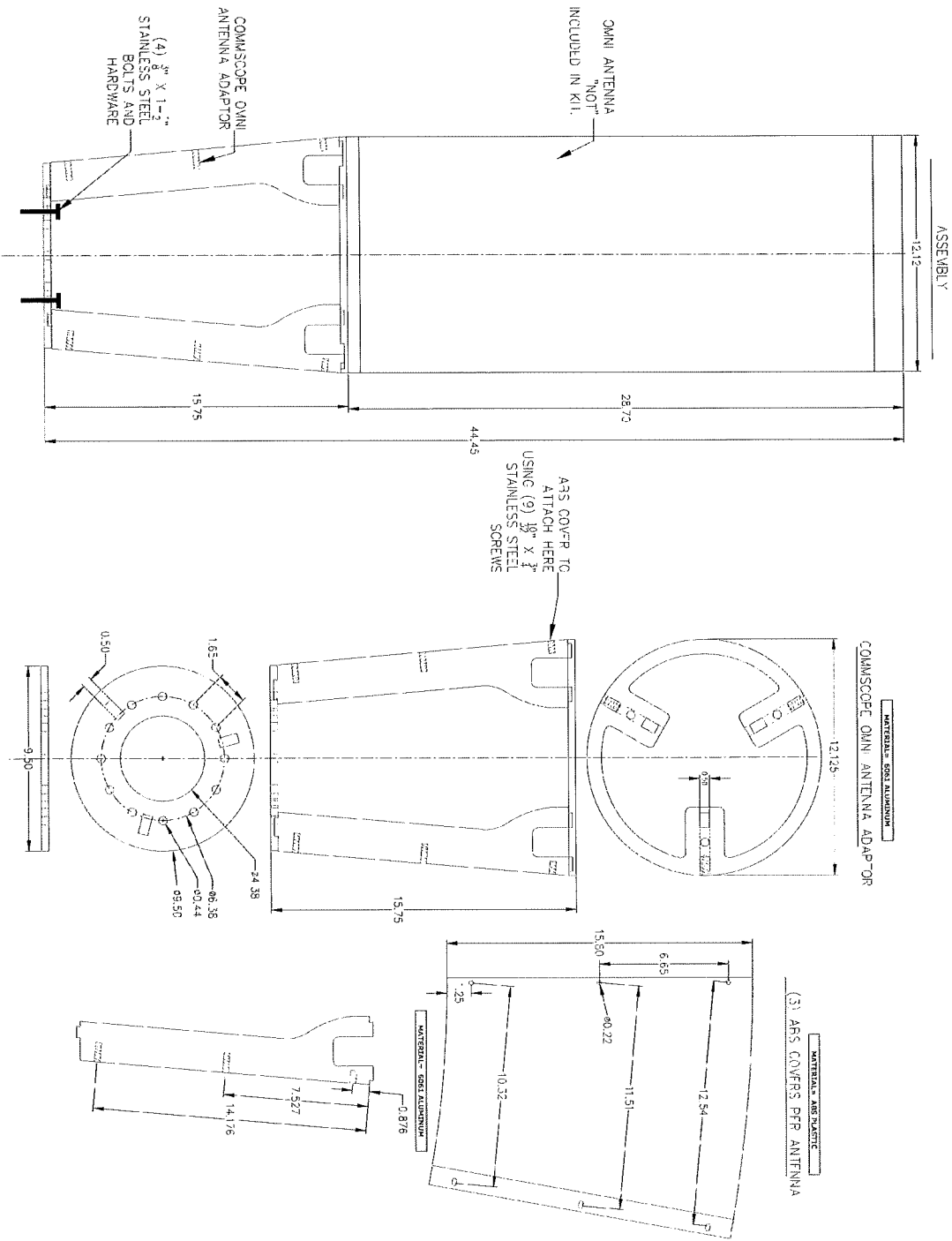
REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	06/21/21
1	UPDATING EQUIPMENT	GL	06/07/21

SITE ESCAPE: H5Q-020
 SCU# 464625

SITE ADDRESS: 88 STORY ST
 CAMBRIDGE, MA 02138
 POLER N/A

SHEET DESCRIPTION: 4G ANTENNA DETAILS

SHEET NUMBER: A-9



ANTENNA KIT 008H (COMMSCOPE) 1

PLANS PREPARED FOR:
CROWN CASTLE

PLANS PREPARED BY:
PIKE TELECOM
31 Oxford Rd
Hamlet, MA 02048
www.pikecom.com
1-800-337-7000

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REVISIONS:

REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL 09/24/21	
1	UPDATE EQUIPMENT	GL 05/07/21	

SITE OSAGE: _____
HSQ-020
SCU# 464625

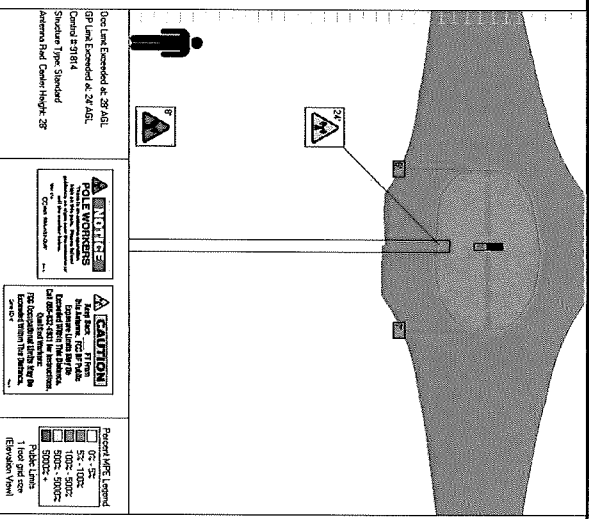
SITE ADDRESS:
83 STORY ST
CAMBRIDGE, MA 02138
POLE# N/A

SHEET DESCRIPTION:
4G MOUNT BRACKET

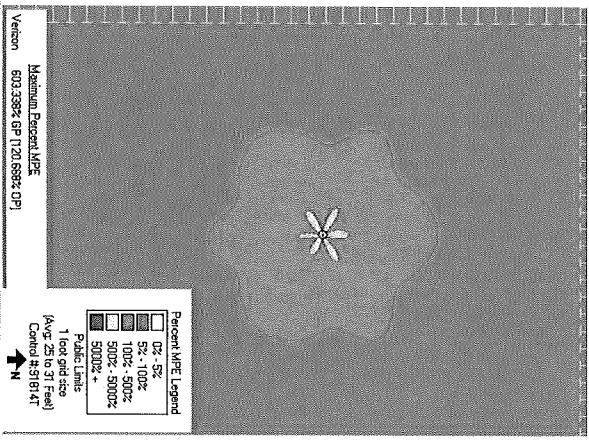
SHEET NUMBER:
A-10

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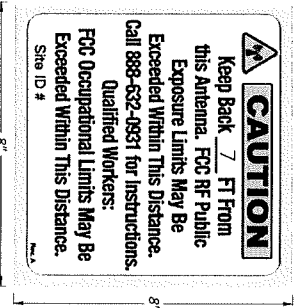
NOTE:
EME ANALYSIS PROVIDED BY CROWN CASTLE



EME PROFILE GRAPHIC 1

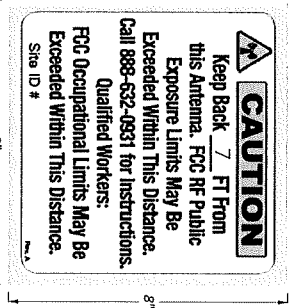


COVER MAP 2



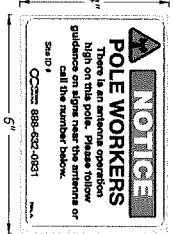
NOTE:
THESE "CAUTION" SIGNS MUST BE POSTED ON BOTH THE OMM ANTENNA AND THE MOUNTING BRACKET SHROUD ANY TIME THERE IS AN AREA THAT EXCEEDS THE GENERAL PUBLIC (GP) EXPOSURE LIMIT.
THE KEEP-BACK DISTANCE FOR THE GP MUST BE FILLED IN ON THE SIGN.
THE EME REPORT MUST CLEARLY STATE THAT GP LIMIT KEEP-BACK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

(2) CAUTION SIGNS - POLE TOP



NOTE:
THESE "CAUTION" SIGNS MUST BE POSTED ON THE POLE AT 15' AS DETERMINED BY CROWN CASTLE S&E EME ANALYSIS AND 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 ON PRIOR TO ACCESSING SITE.

CAUTION SIGN - CABINET LEVEL



NOTE:
THESE "NOTICE" SIGNS MUST BE POSTED NEAR THE BOTTOM OF THE POLE ON THE SHROUD ANY TIME THERE IS ZONE 1 (GP) EXPOSURE LIMIT.
IF SIGN IS MISSING OR ILLEGIBLE, CONTACT CROWN CASTLE ON PRIOR TO ACCESSING SITE.

NOTICE SIGN - AFFIX TO CABINET

PLANS PREPARED FOR: **CROWN CASTLE**

PLANS PREPARED BY: **PRKE TELECOM**
31 Goff Rd
Northfield, MA 02044
www.prketelecom.com
1-888-337-7000

FOR PERMITTING PURPOSES ONLY

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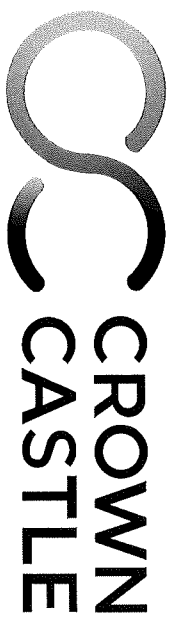
REV	DESCRIPTION	BY	DATE
0	ORIGINAL	GL	06/27/21
1	UPDATE EQUIPMENT	GL	05/07/21

SITE CASECODE: **HSQ-020**
SCU# 464625

SITE ADDRESS: **89 STORY ST**
CAMBRIDGE, MA 02138
POLE# N/A

EME ANALYSIS AND SIGNAGE

SHEET NUMBER: **A-11**



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

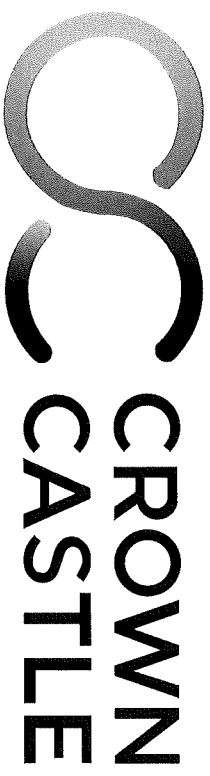
SMALL CELL POWER AND FIBER LATERAL
NODE HSQ_020

PREPARED BY:

21 Oxford Rd
Boston, MA 02111
www.pketelecom.com
1-508-317-7500

SHEET INDEX

SHEET #	DESCRIPTION
1	COVER STREET
2	PETITION PLAN



TRAFFIC MANAGEMENT PLAN
FOR

PROPOSED CONDUIT INSTALLATION
MT AUBURN ST AT STORY ST
CAMBRIDGE, MA

SMALL CELL POWER AND FIBER LATERAL
NODE HSQ_020

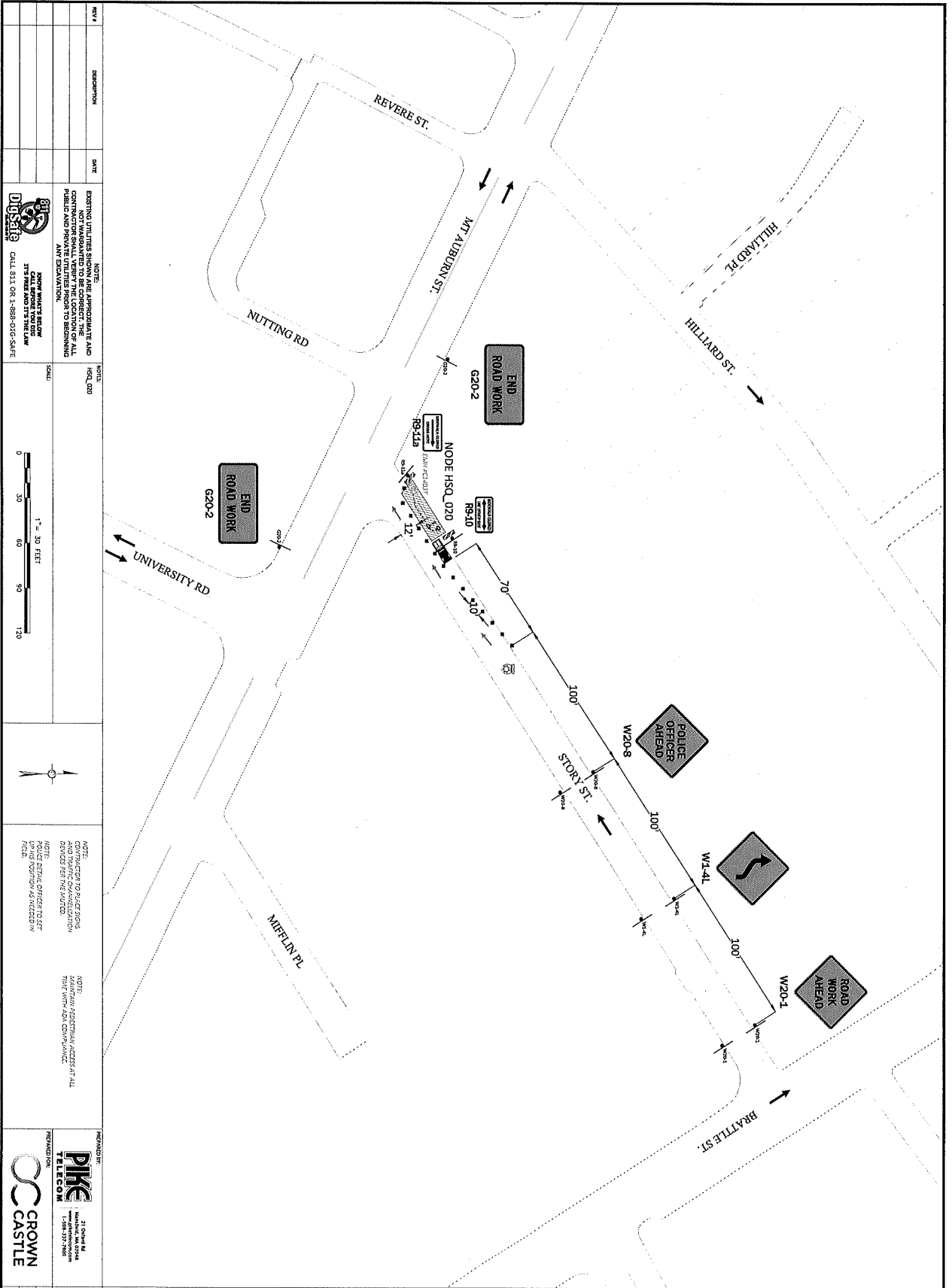
PREPARED BY:



21 Oxford Rd
Mansfield, MA 02048
www.piketec.com
1-508-337-7600

SHEET INDEX

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



REV#	DESCRIPTION	DATE

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

NOTE:
CONTRACTOR TO PLACE TRAFFIC SIGNS AND DEVICES AS SHOWN WITHIN AIDZ. POLICE OFFICERS TO SET UP AIDZ.

NOTE:
CONTRACTOR TO PROVIDE POLICE OFFICERS WITH AIDZ. POLICE OFFICERS TO SET UP AIDZ.

NOTE:
CONTRACTOR TO PROVIDE POLICE OFFICERS WITH AIDZ. POLICE OFFICERS TO SET UP AIDZ.

SCALE:
1" = 30' FEET

0 30 60 90 120

NOTE:
CONTRACTOR TO PROVIDE POLICE OFFICERS WITH AIDZ. POLICE OFFICERS TO SET UP AIDZ.

NOTE:
CONTRACTOR TO PROVIDE POLICE OFFICERS WITH AIDZ. POLICE OFFICERS TO SET UP AIDZ.

RECOMMENDED BY:

PIKE TELECOM
31 OVERHILL LANE, SUITE 200
LEESBURG, VA 22078
1-800-375-7800

CROWN CASTLE

TITLE:	DATE:
TRAFFIC MANAGEMENT PLAN - PHASE I	05/17/2011
MT ALBURN ST AT STORY ST, GAVAGOLE, VA	

TRAFFIC LEGEND

	PROPOSED TRAFFIC SIGN
	OBSTRUCTING DEVICE (CON)
	SIGN
	POLICE DETAIL
	SINGLE PARKING METER
	VARIABLE MESSAGE BOARD
	ARROW BOARD
	TYPE 3 BARRICADE
	HIGH LEVEL WARNING DEVICE
	CONSTRUCTION TRUCK
	TRUCK MOUNTED ATTENUATOR
	TRAFFIC FLOW
	TRAFFIC FLOW
	TRAFFIC FLOW
	2 WAY TRAFFIC

FREE STANDING SELF SUPPORT SIGN

TRAFFIC MANAGEMENT PLAN - PHASE I

MT ALBURN ST AT STORY ST, GAVAGOLE, VA

NOTE:
ALL WORK SHOULD BE COMPLETED ONCE THE ROAD IS OPEN TO TRAFFIC. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.