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CAMBRIDGE HISTORICAL COMMISSION

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CAMBRIDGE HISTORICAL COMMISSION

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: Harvard Yard, Cambridge, Massachusetts

3. Describe the proposed alteration(s), construction or demolition in the space provided below:
(An additional page can be attached, if necessary).

Replacement of antennas at existing wireless access points (WAPs), and installation of three (3) new WAPs in Harvard Yard. See attached materials for details.

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: President and Fellows of Harvard College, c/o Mark Verkennis, HPO	
Mailing Address: 1350 Massachusetts Avenue, Suite 573 Cambridge, MA 01970	
Telephone/Fax: (617) 496-1879 / (617) 495-0559	E-mail: mark_verkennis@harvard.edu
Signature of Property Owner of Record: <i>Mark Verkennis</i> (Required field; application will not be considered complete without property owner's signature)	
Name of proponent, if not record owner:	
Mailing Address:	
Telephone/Fax:	E-mail:

<i>(for office use only):</i>			
Date Application Received:	Case Number: 4058	Hearing Date:	
Type of Certificate Issued:	Date Issued:		

Harvard Yard Wi-Fi Upgrade

Background

In 2016, Harvard University Information Technology (HUIT) established multiple Wireless access points (WAPs) in Harvard Yard that have enabled users to access University resources while outdoors in the Yard via Wi-Fi network service. A total of eleven (11) wireless access points were created at existing free-standing light poles in Harvard Yard which also serve as emergency phone locations (poles with blue security lights). Two additional flat panel patch antennas were installed on the southern facade of Holworthy Hall to provide adequate coverage to the northern portion of the Old Yard. All the installations located within the boundary of the Old Cambridge Historic District were approved by Cambridge Historical Commission in October 2016. The remainder of the Yard installations were reviewed with the Executive Director of the CHC.

Since that time, the use of wireless applications continues to grow across all areas of the University's academic programs, administration and campus operations. To adequately meet the continued demand for wireless network service on its campus, Harvard must upgrade the existing wireless network to improve both its capacity and coverage.

Proposal

Replacement Equipment

HUIT proposes to replace all the existing access points with new equipment. Existing locations on light poles will be replaced with new equipment (WAP enclosure measures approximately 6.5" X 6.5" X 4.3") on a 12" mounting arm which will be attached to the light pole below the existing blue lights using a mounting bracket that matches the pole contour. The WAP enclosure, mounting bracket, and mounting hardware will be painted to match the existing pole color.

At Holworthy Hall, the two-existing flat panel patch antennas will be replaced with the new WAP equipment which will be mounted on an approximately five-inch articulating arm at the same location as existing equipment. The new WAP equipment and mounting arm will be painted a matte black.

New WAPs

Three (3) new WAP locations are proposed in proximity to three entry gates on the southern edge of Harvard Yard. These new locations will support the provision of adequate wireless service during peak volume events such as Harvard Commencement, where wireless ticketing is utilized.

The new WAPs are proposed to be located at Lehman Dudley House, Wigglesworth Hall (west building) and the Widener Gate security building. Existing exterior conduit will be utilized at two of the locations. At the Widener Gate security office, cabling will be brought from the building interior. The new WAP equipment at these locations will be mounted on an articulating arm, and all equipment will be painted a color to approximate the mounting surface brick.

Proposed WAP Equipment

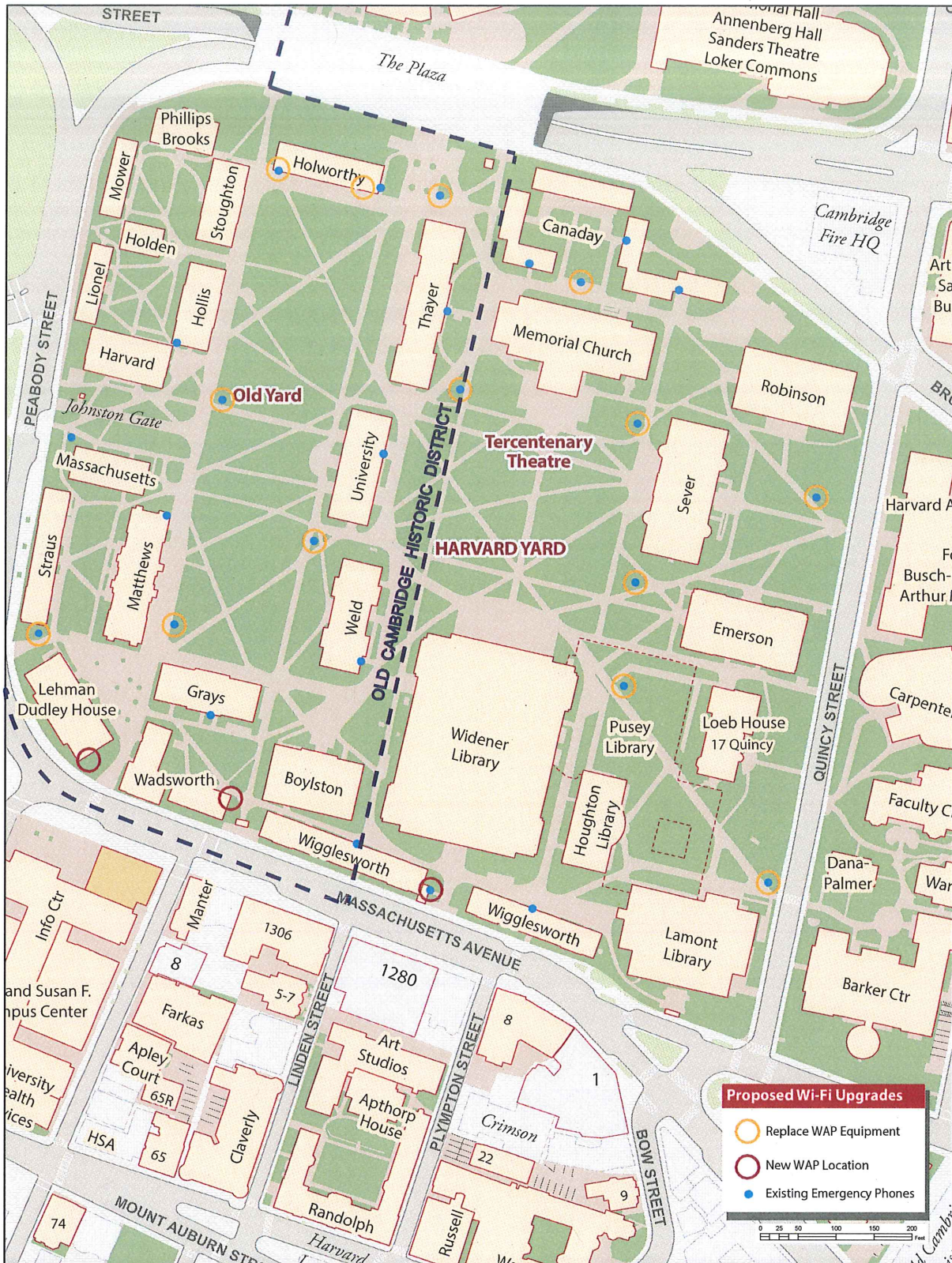


Wall Mount with articulating arm

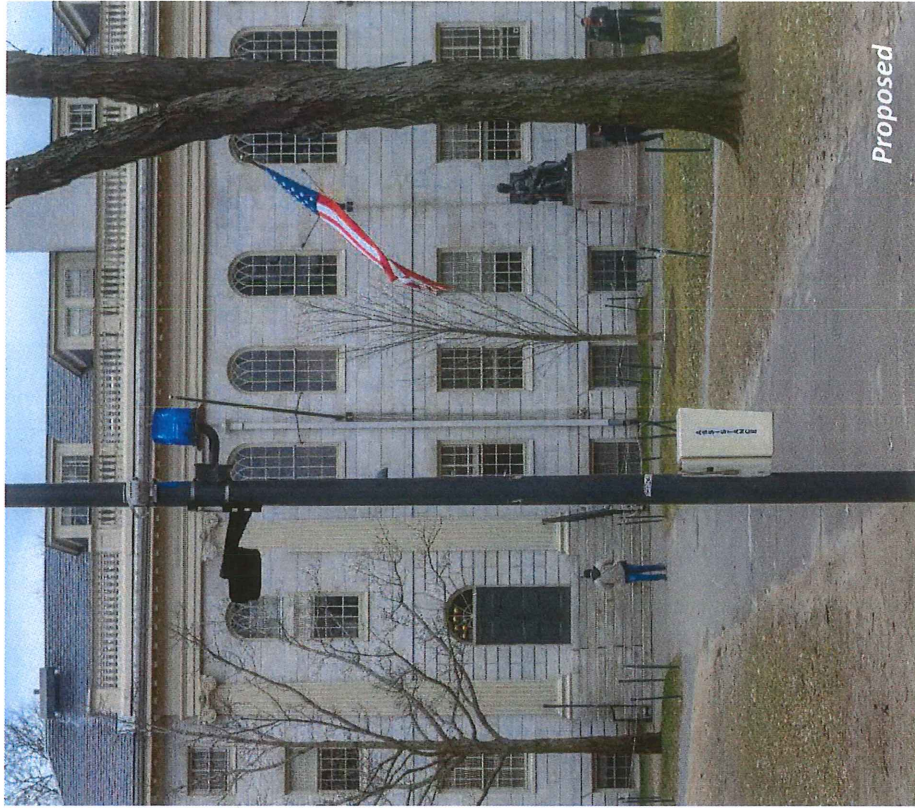
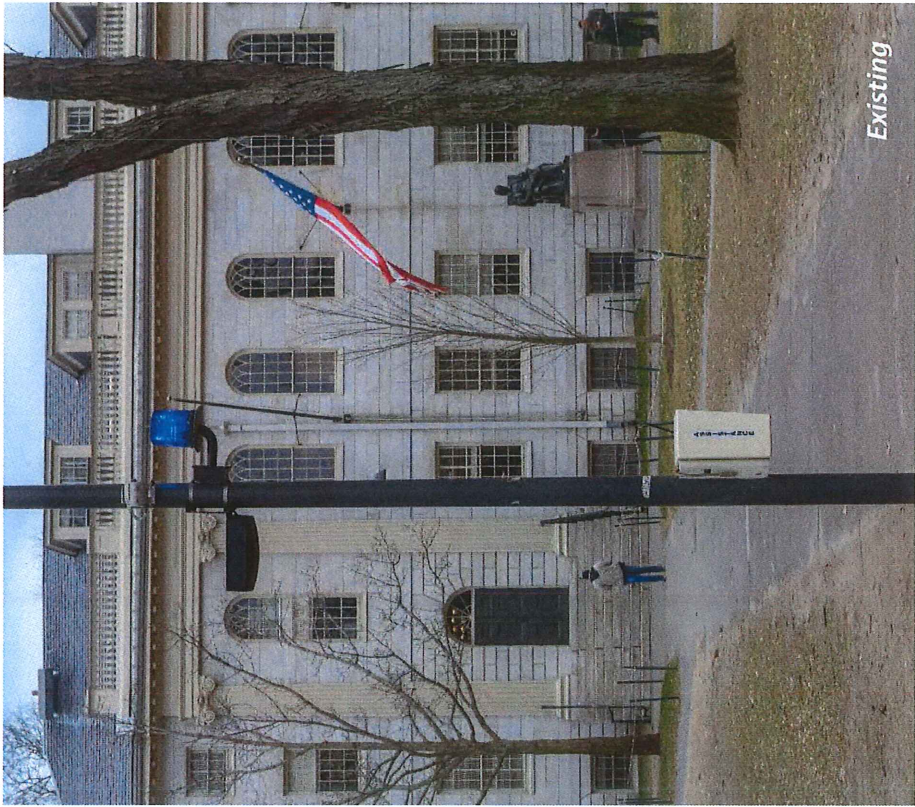


Pole Mount with 12" arm

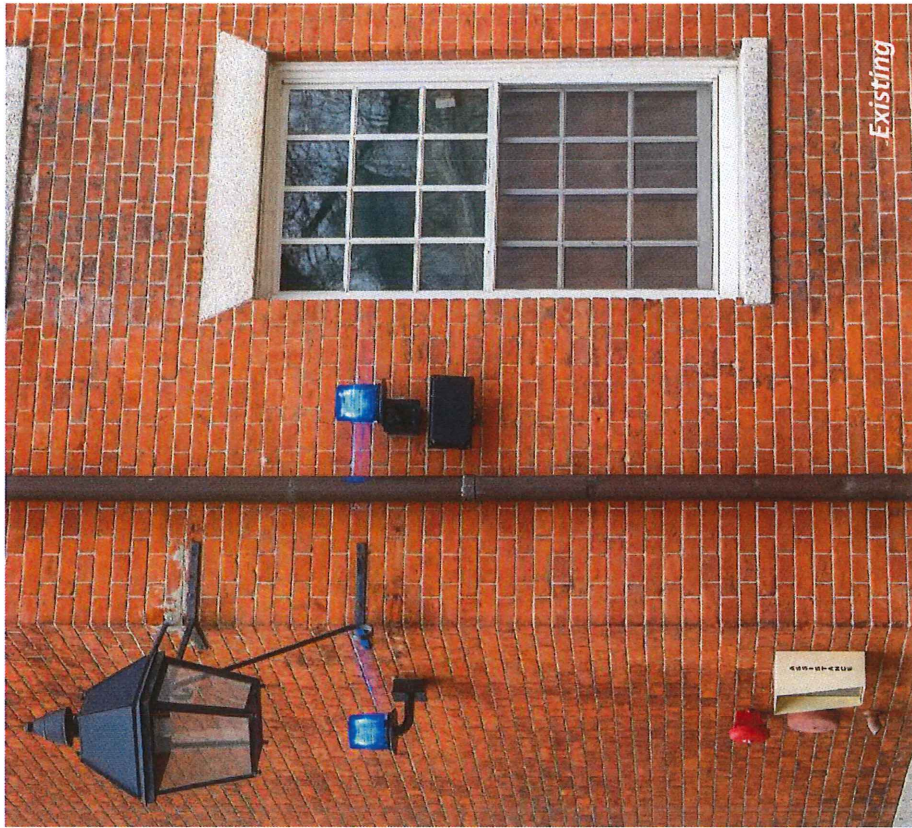
Proposed Harvard Yard Wi-Fi Upgrades (2019)



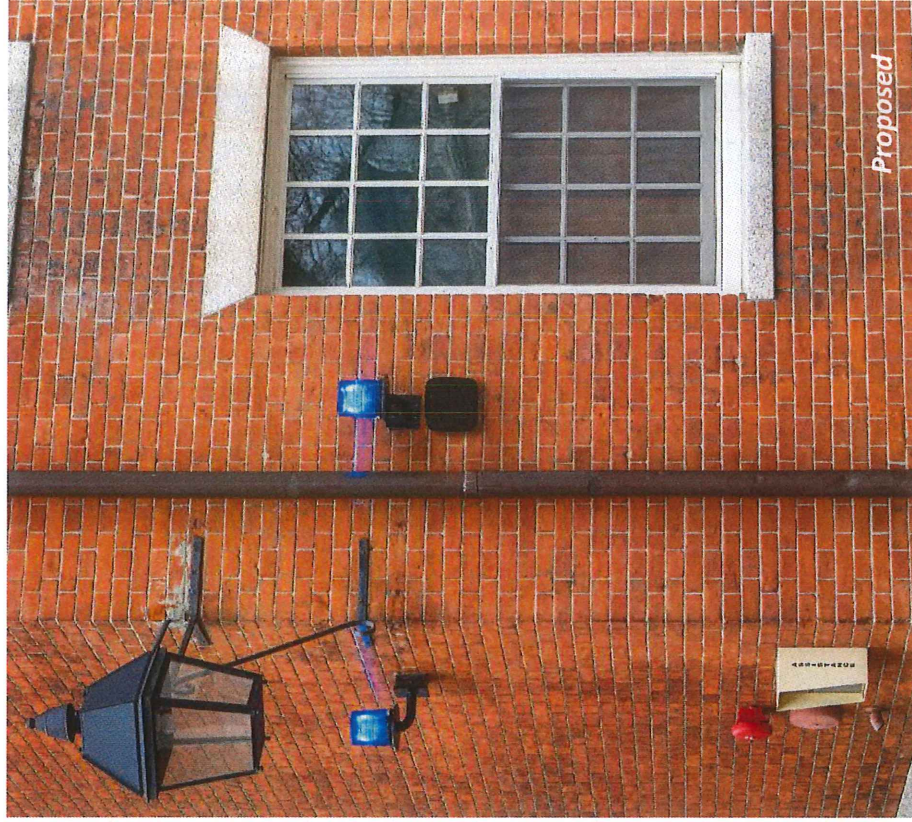
Existing Pole Mounted Locations



Existing Wall-Mounted (Holworthy Hall - 1)

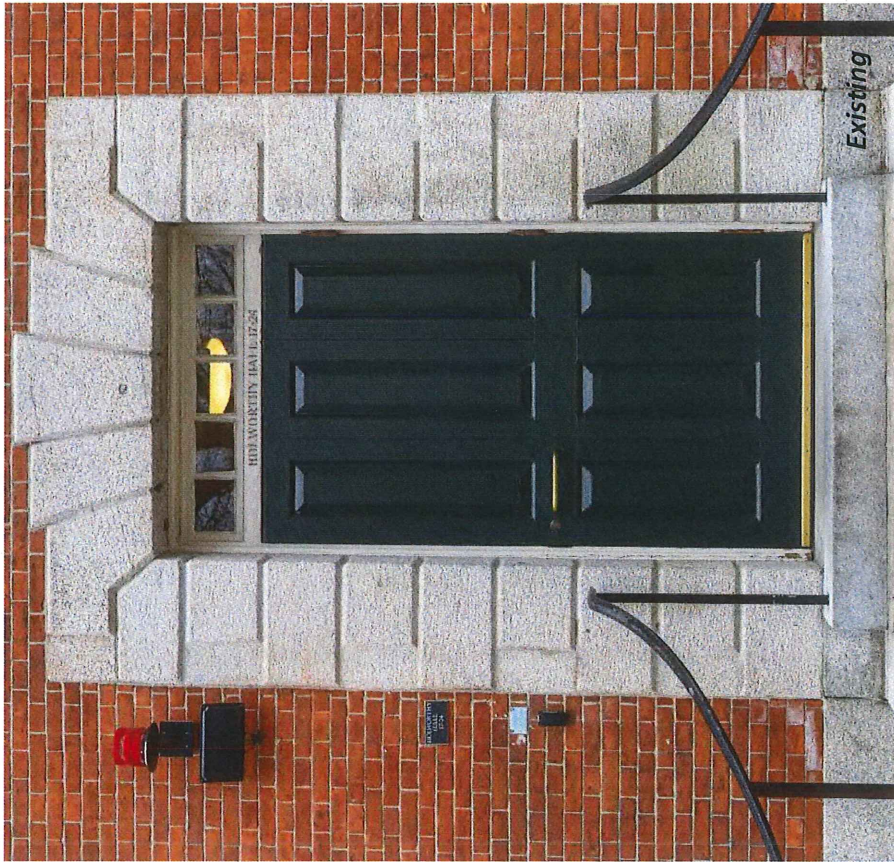
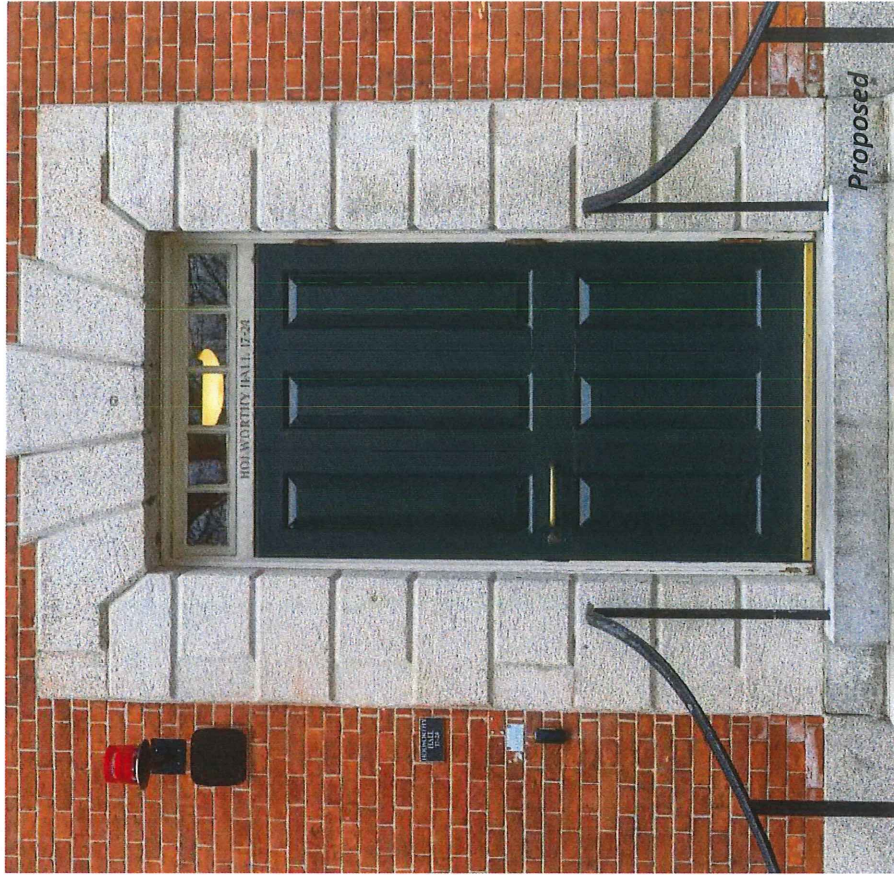


Existing

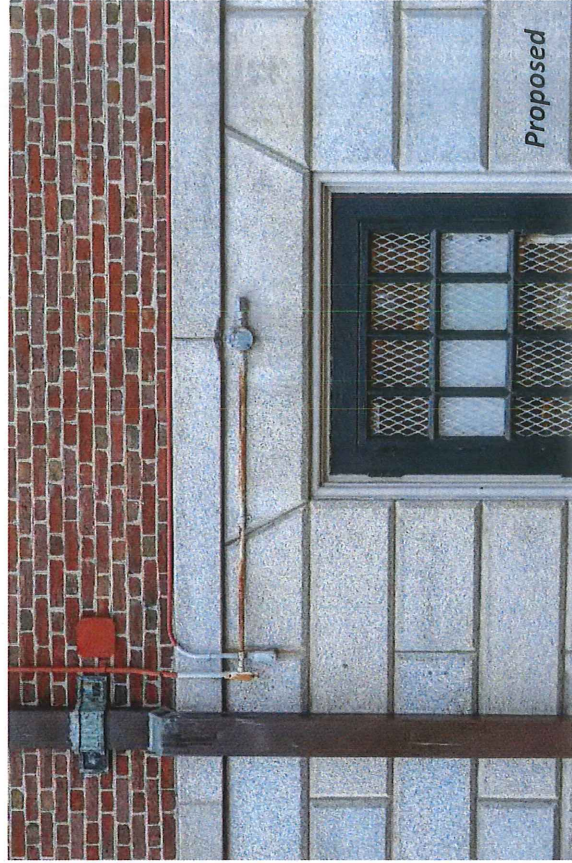
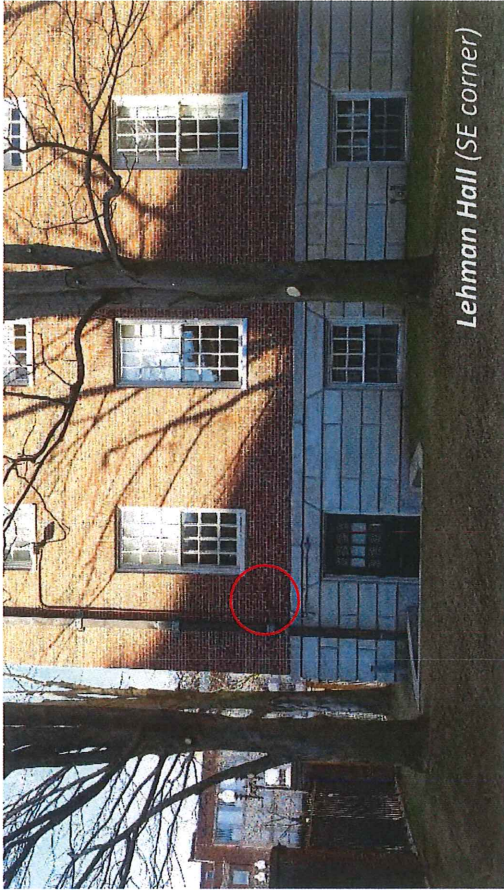


Proposed

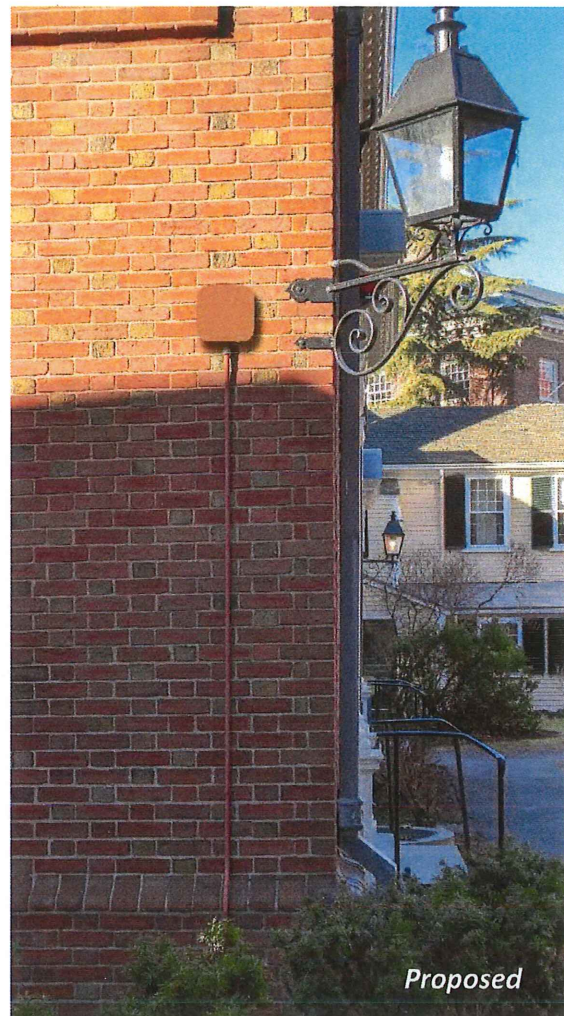
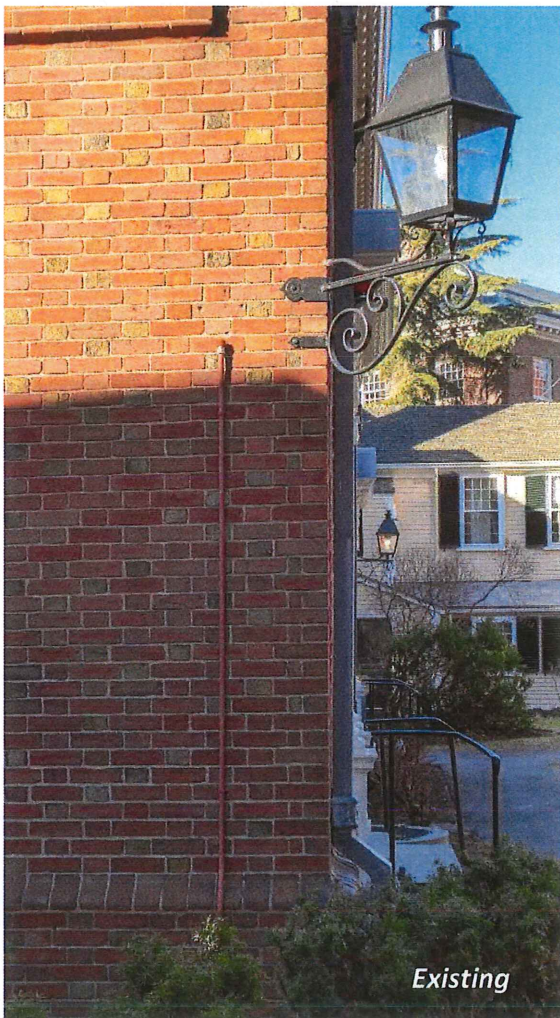
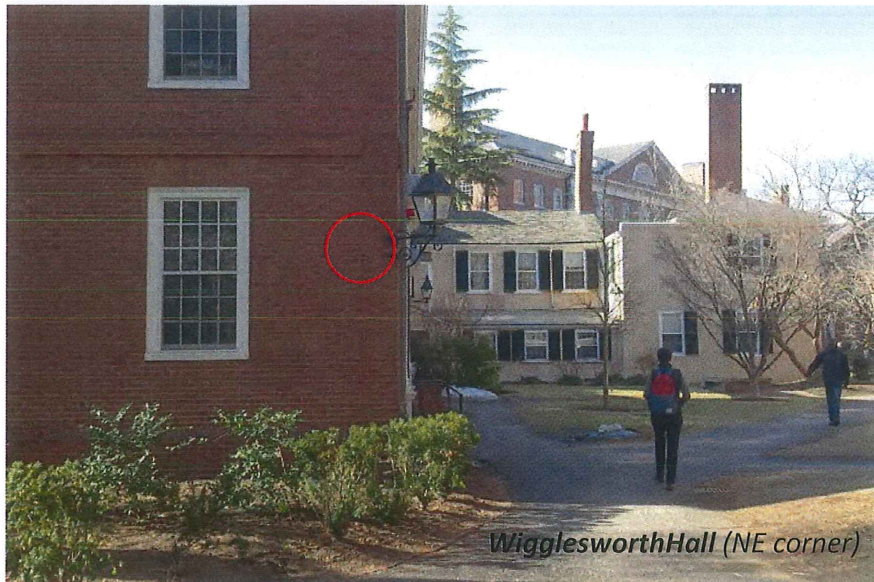
Existing Wall-Mounted (Holworthy Hall - 2)



New WAP Locations (Lehman Hall)



New WAP Locations (Wigglesworth Hall)



New WAP Locations (Widener Gate)

