

Touloukian Touloukian Inc.
Architecture & Urban Design

Historic Harvard Square Kiosk

**Cambridge Historic Commission
Application Presentation**

April 09, 2019

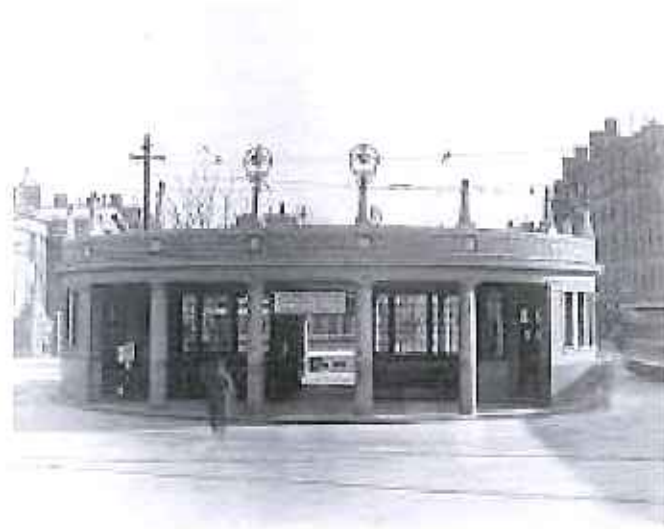


Harvard Square Kiosk

1. Timeline of Alterations
2. Design Proposal
3. Preservation + Renovation Approach

Kiosk Timeline

Initial



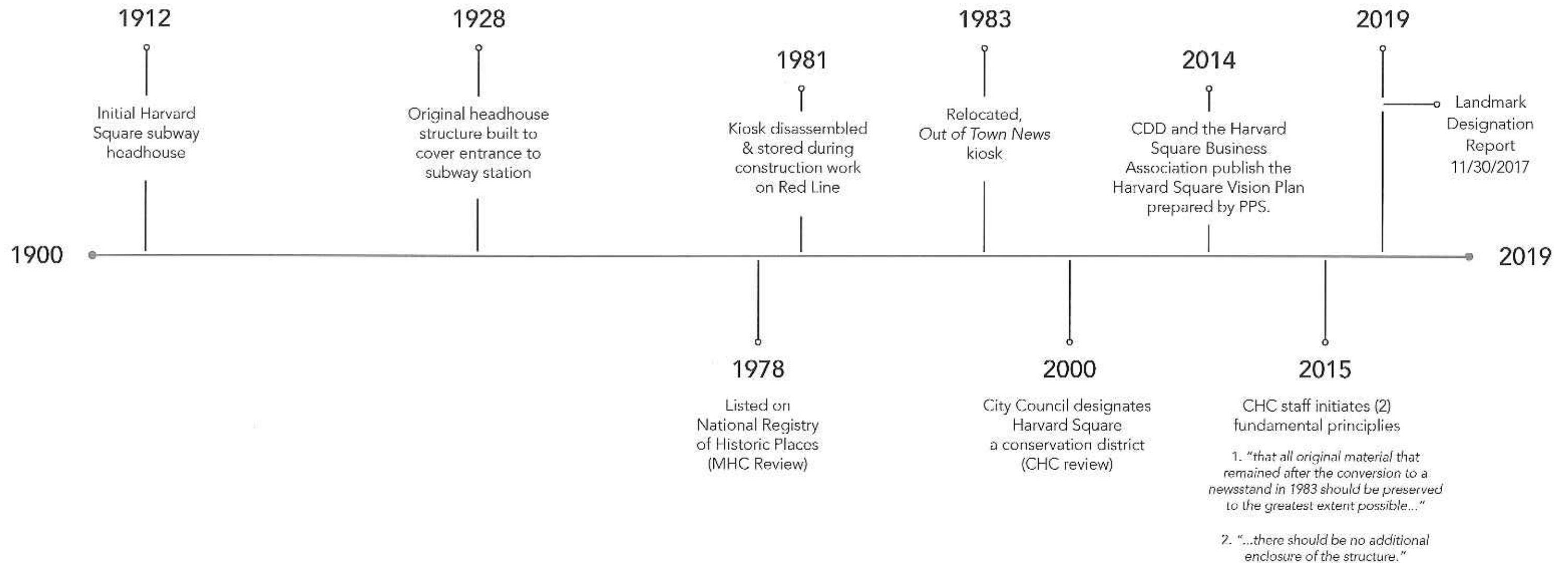
"Original"



Relocated



Today

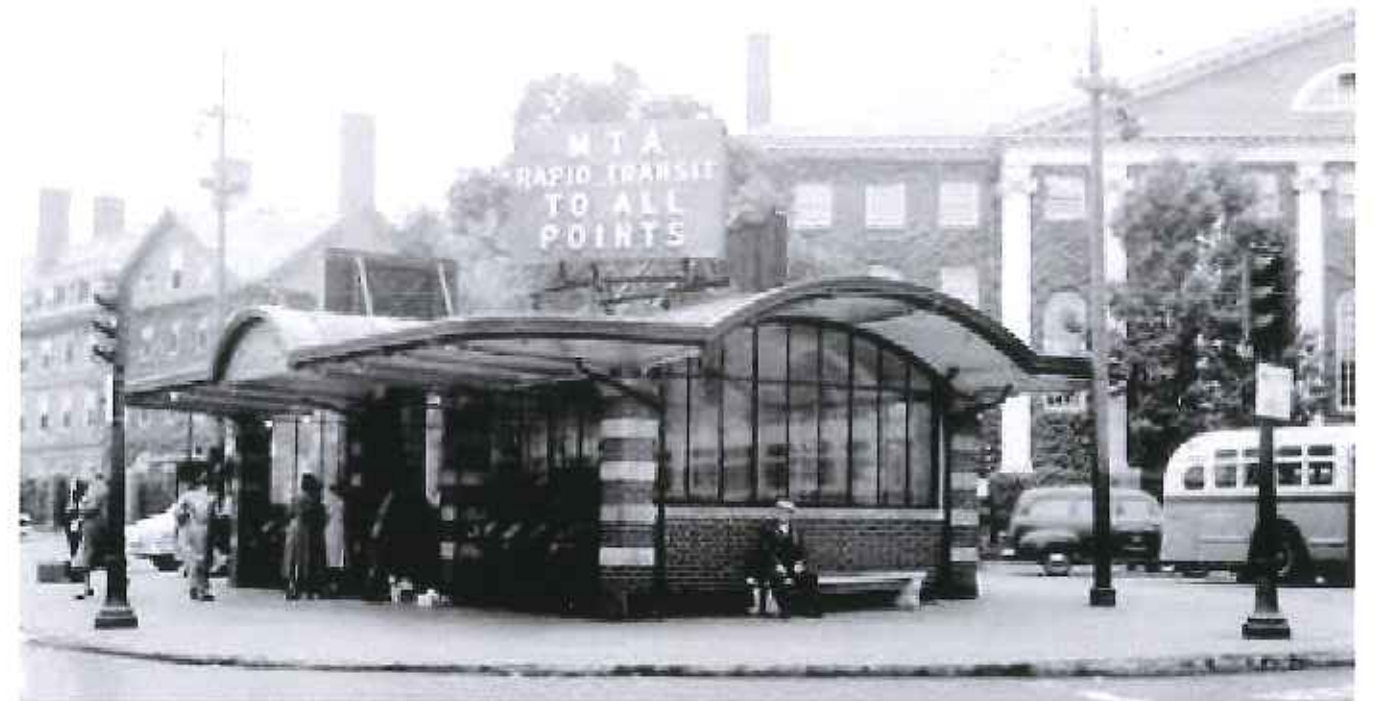


"Original" Kiosk

Roof, Cornice, Masonry, Steel Framing, Wood Soffit and Windows



Harvard Square Kiosk - circa 1977



Harvard Square Kiosk - estimated 1960's



Harvard Square Kiosk - circa 1928

"Original" Kiosk

Rooftop Signage - circa 1961



"Original" Kiosk

Steel Windows - circa 1938



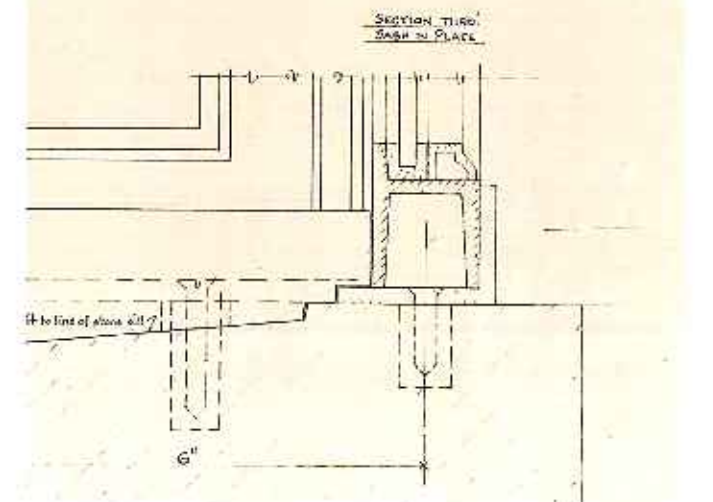
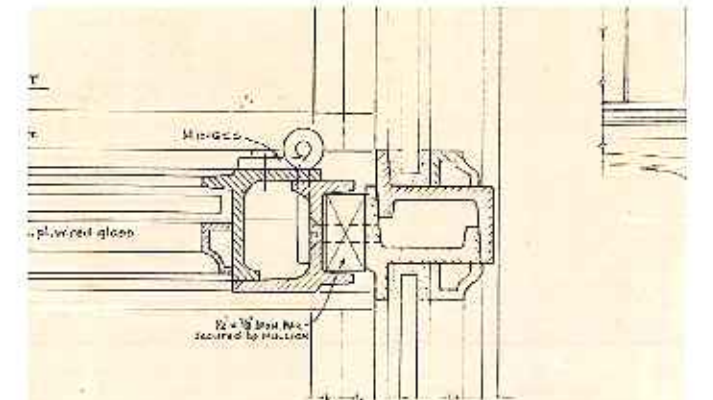
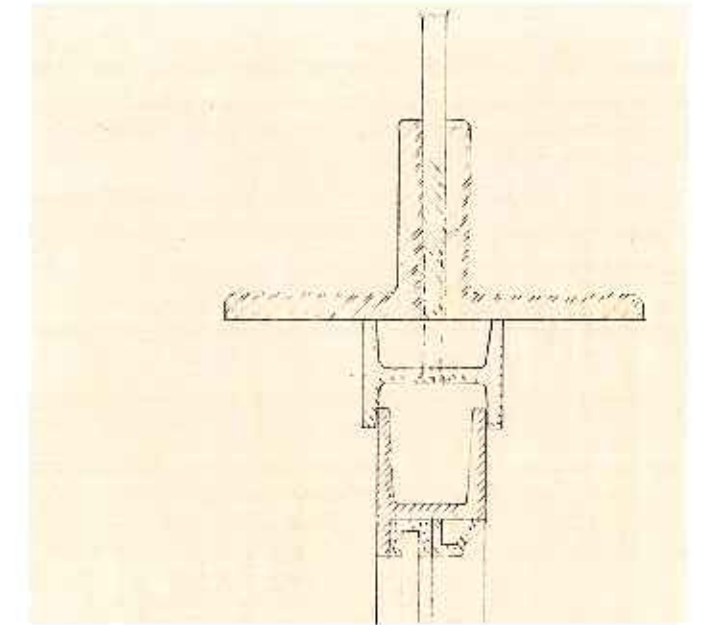
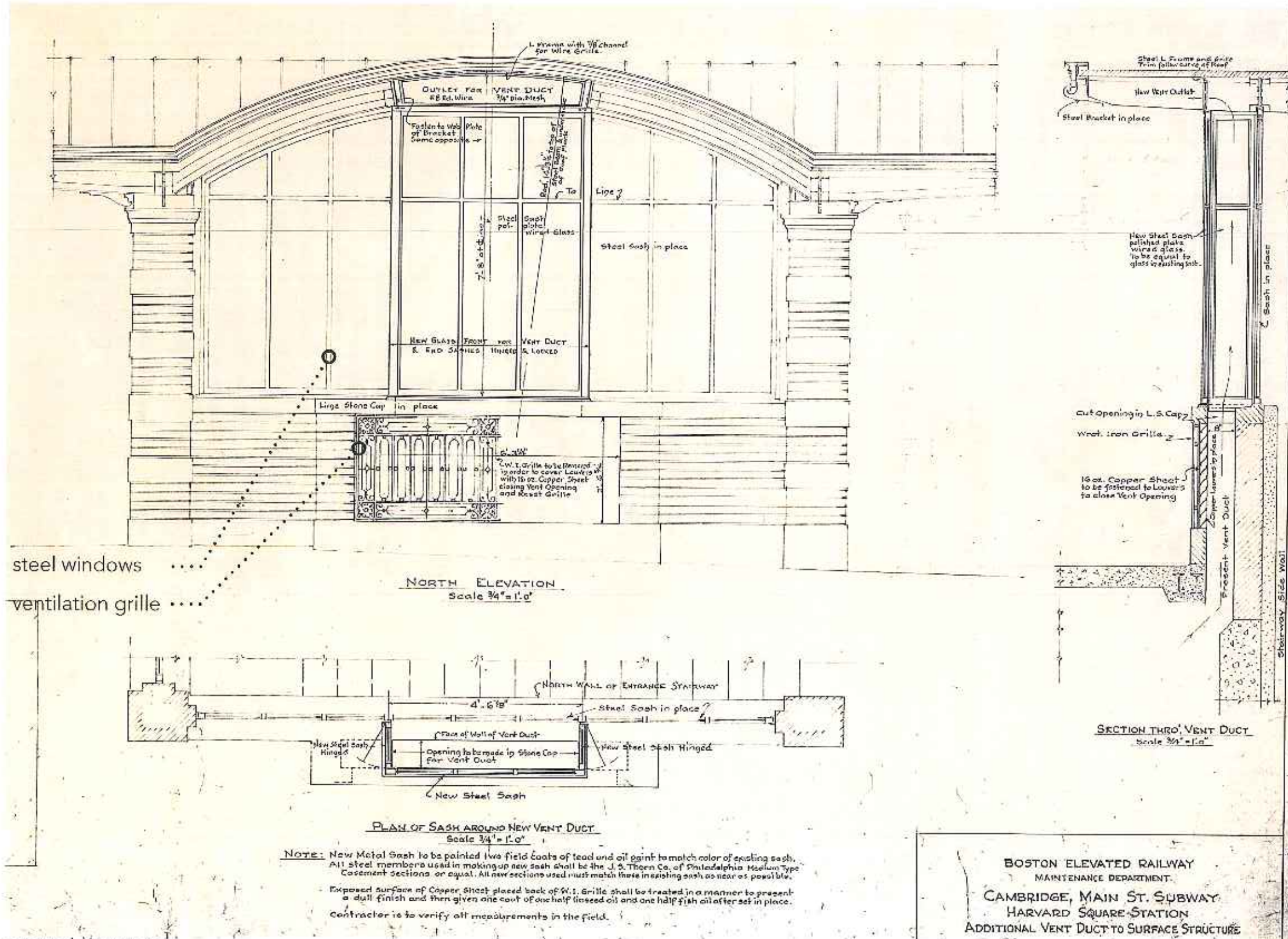
"Original" Kiosk

North Facade Ventilation Grille - circa 1955



"Original" Kiosk

Drawings



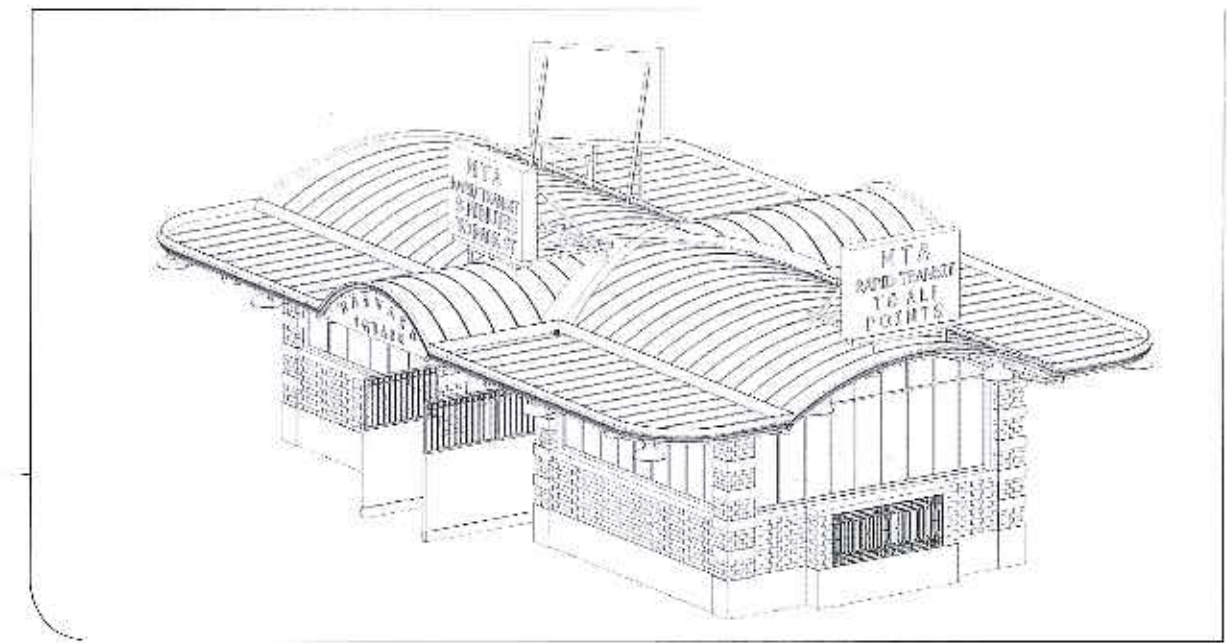
steel windows
ventilation grille

original drawings

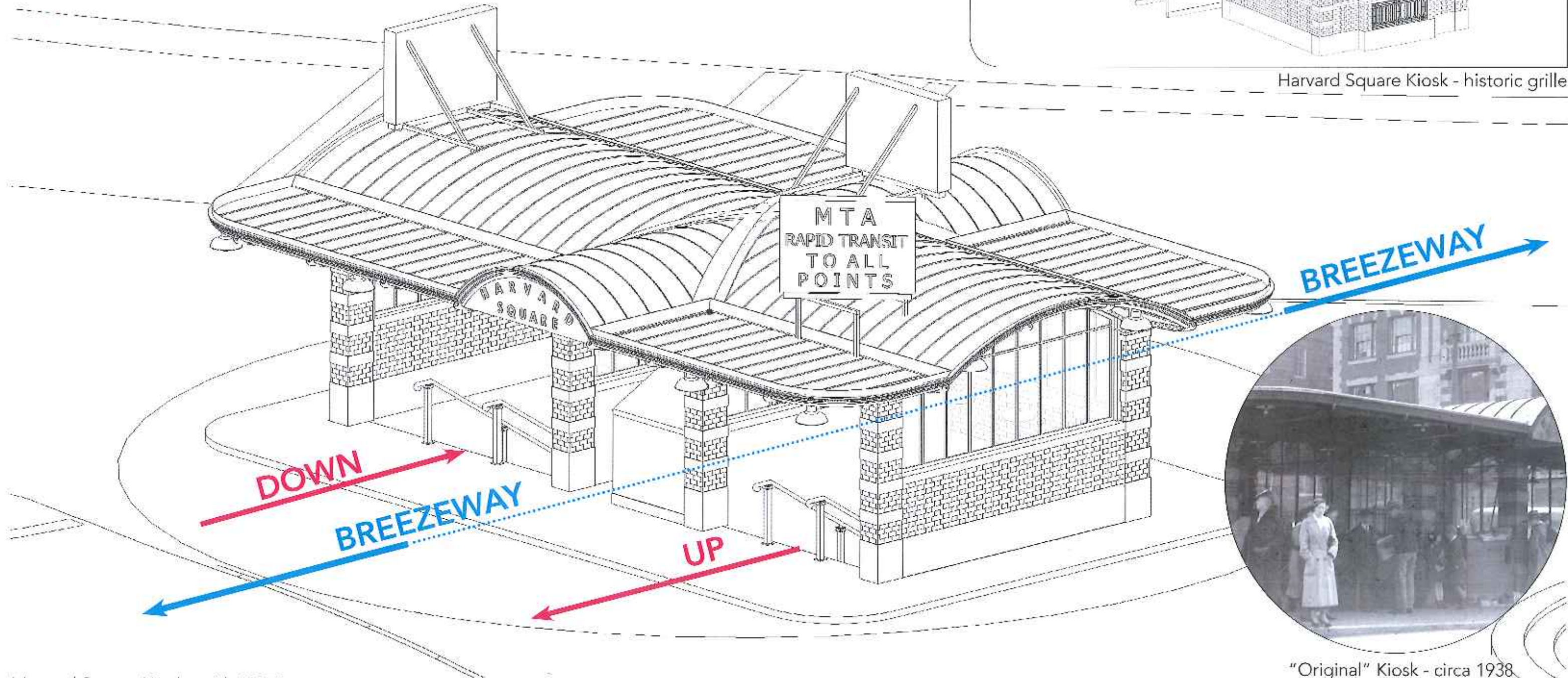
"Original" Kiosk - circa 1966



"Original" Kiosk



Harvard Square Kiosk - historic grille

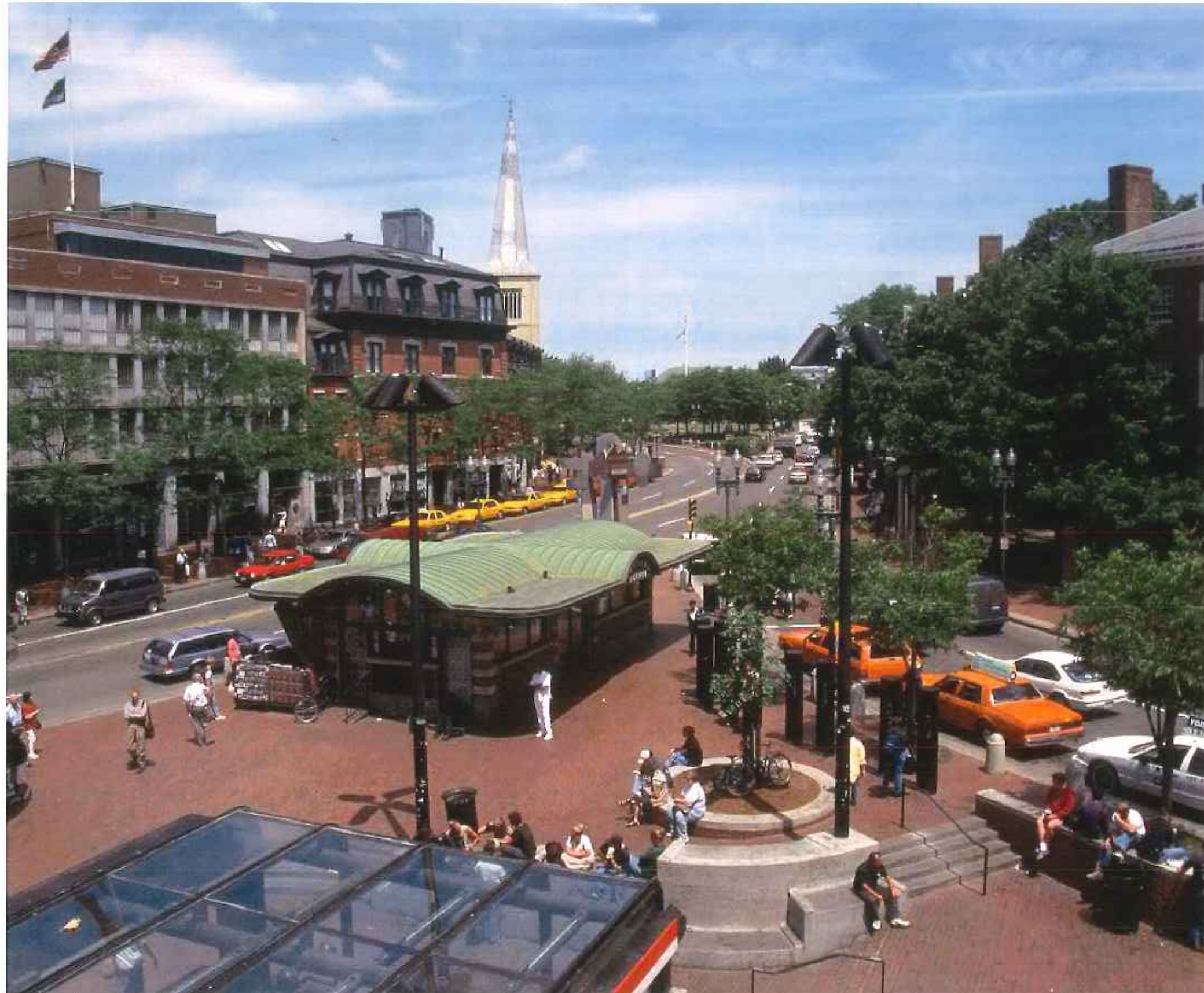


Harvard Square Kiosk - with MBTA access

HARVARD SQUARE KIOSK - CAMBRIDGE, MASSACHUSETTS
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"Original" Kiosk - circa 1938

Relocated Kiosk - circa 1983 "...all original material that remained after the conversion to a newsstand in 1983 should be preserved to the greatest extent possible, and that there should be no additional enclosure of the structure."



1983 relocation of kiosk roof & structure (photo credit: Boston Globe)

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moving of kiosk roof & structure (photo credit: Boston Globe)

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Architecture + Urban Design

HDR HALVORSON DESIGN
PARTNERSHIP

(photo credit: Boston Globe)
CITY OF CAMBRIDGE



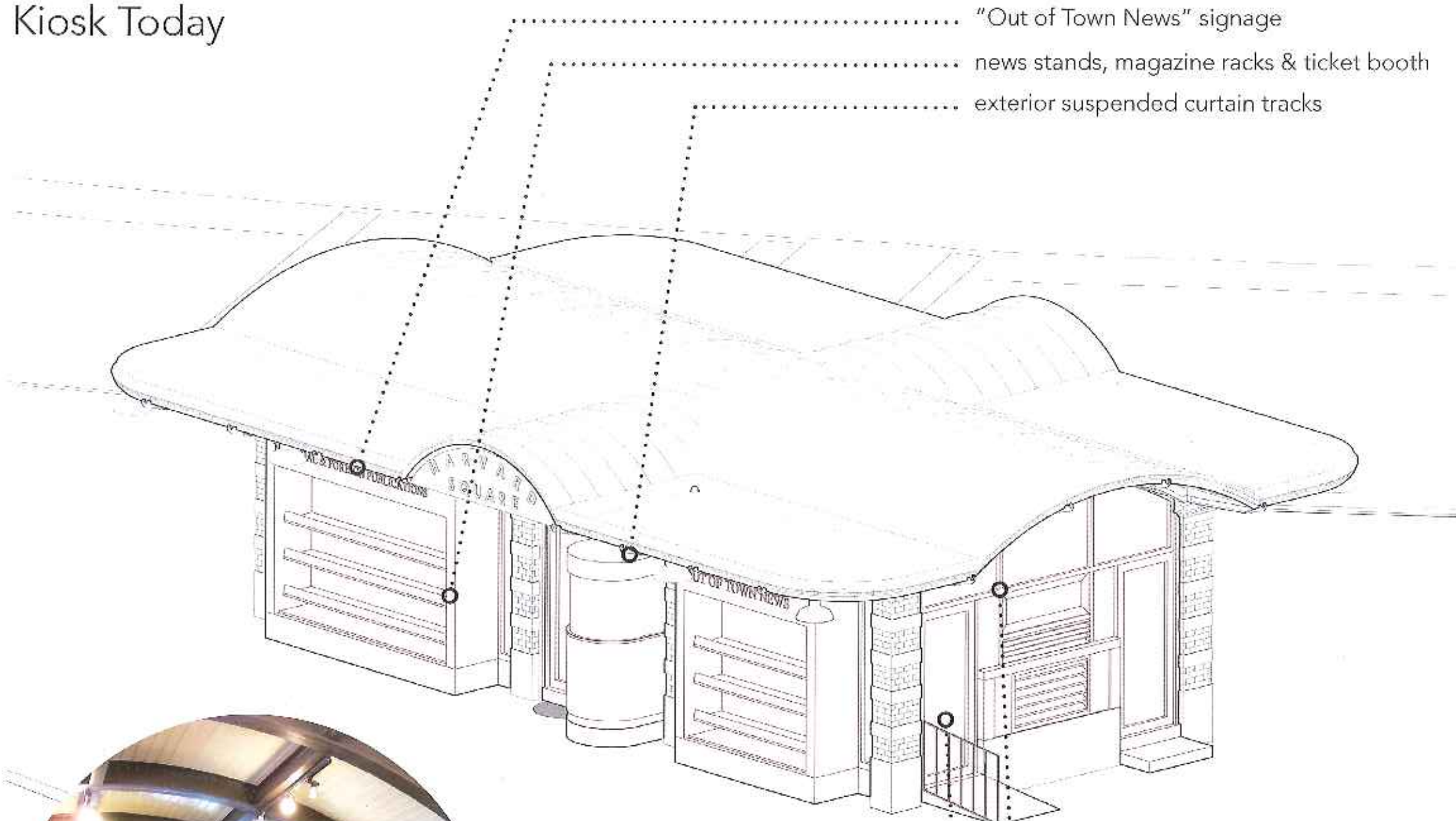
southwest
HARVARD SQUARE KIOSK - CAMBRIDGE, MASSACHUSETTS
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Kiosk Today



northeast
HARVARD SQUARE KIOSK - CAMBRIDGE, MASSACHUSETTS
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Kiosk Today



..... "Out of Town News" signage
 news stands, magazine racks & ticket booth
 exterior suspended curtain tracks



present day kiosk - exterior



present day kiosk - interior

interior
 interior casework & electrical room
 select interior light fixtures
 interior heating & cooling systems

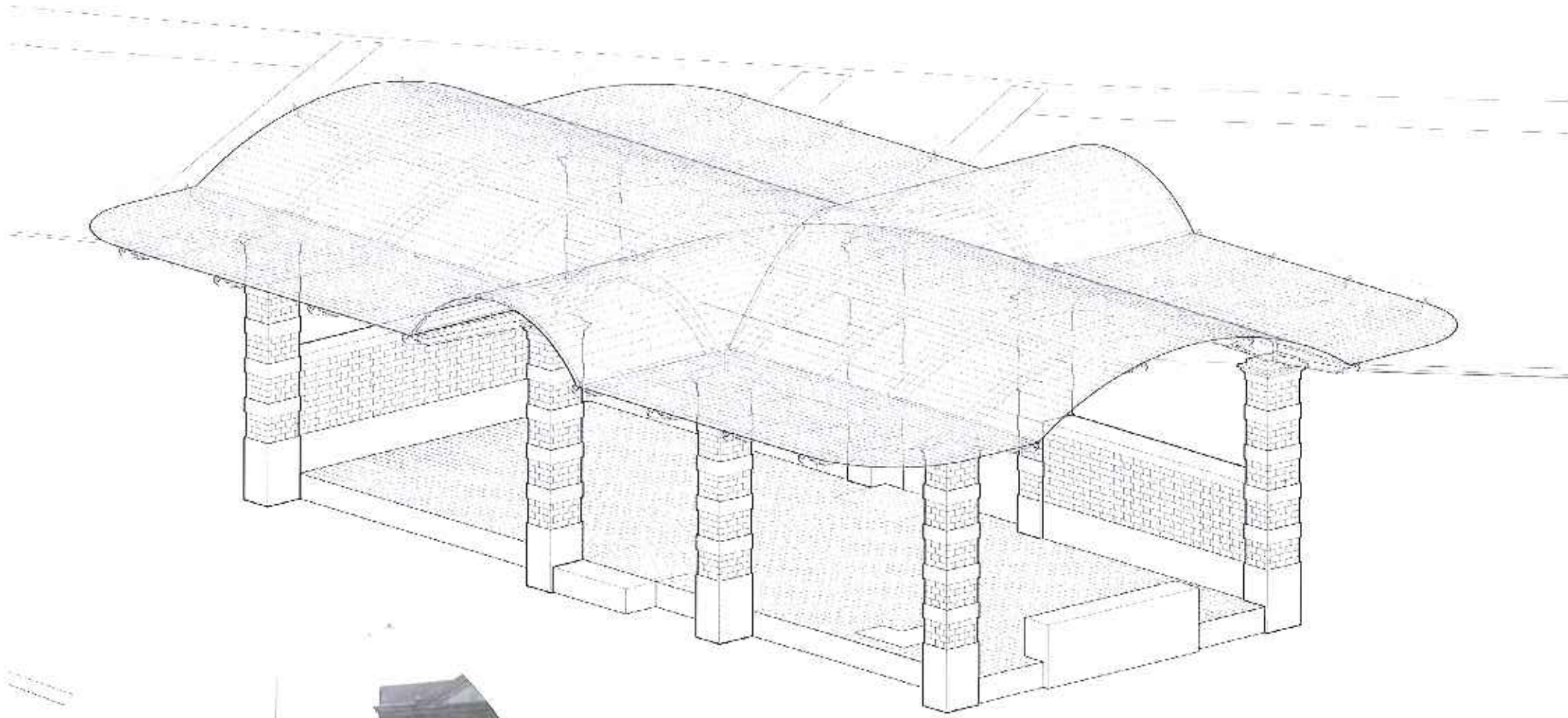
..... aluminum framed storefronts
 south elevation fenestration, vents, doors & ramp



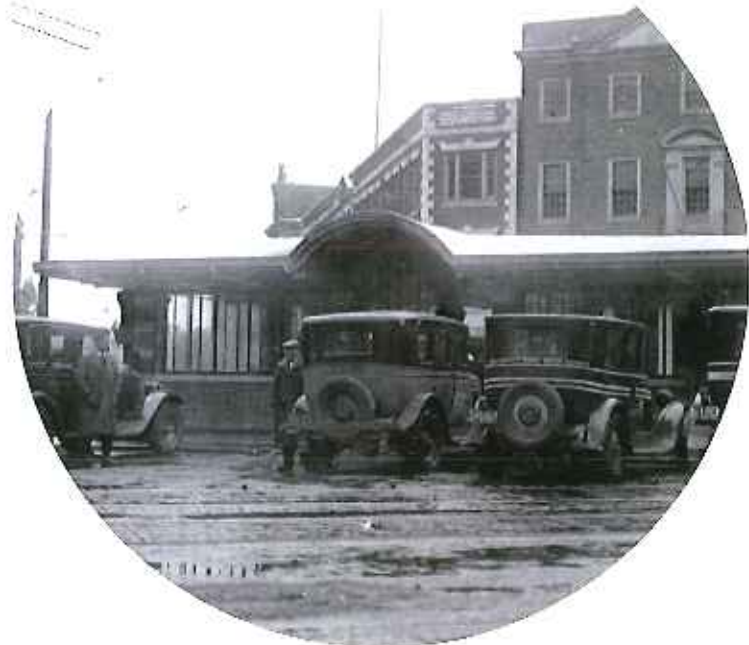
present day kiosk - exterior

Design Proposal

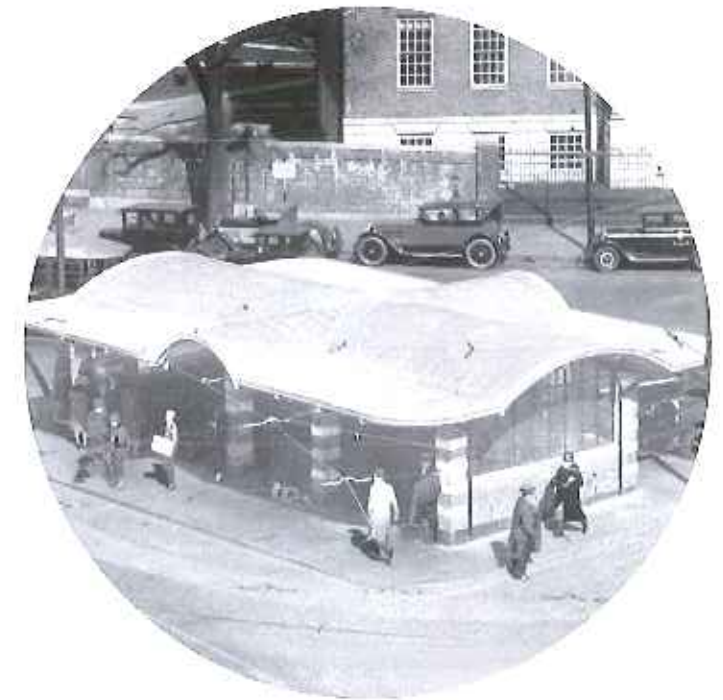
Remove back to the "original" bones?



kiosk today



original kiosk - 1928



original kiosk - 1928

Design Proposal

Preservation of Historic Elements

- a. masonry
- b. roof
- c. fenestration
- d. utilities
- e. lighting
- f. signs
- g. paint Colors
- h. accessibility
- 3. interior features

Final Landmark Designation Report Harvard Square Kiosk 0 Harvard Square, Cambridge, Mass.



Harvard Square Kiosk, 2016

CHC photo

Summary

The Harvard Square Kiosk, constructed in 1927-28 by the Massachusetts Department of Public Utilities and reconstructed by the Massachusetts Bay Transportation Authority and adaptively reused as a newsstand in 1981-84, is significant for its architecture and method of construction and for its associations with the suburban and commercial development of Cambridge in the 19th and 20th centuries. It is a rare and distinctive example of a specialized early twentieth-century transportation structure that has been adaptively reused for commercial purposes. The kiosk is significant for its associations with architects Blackall, Clapp & Whittemore and M.I.T. civil engineering professor Charles B. Breed. The building is also culturally significant as the central identifying structure in a commercial area associated with Harvard University.

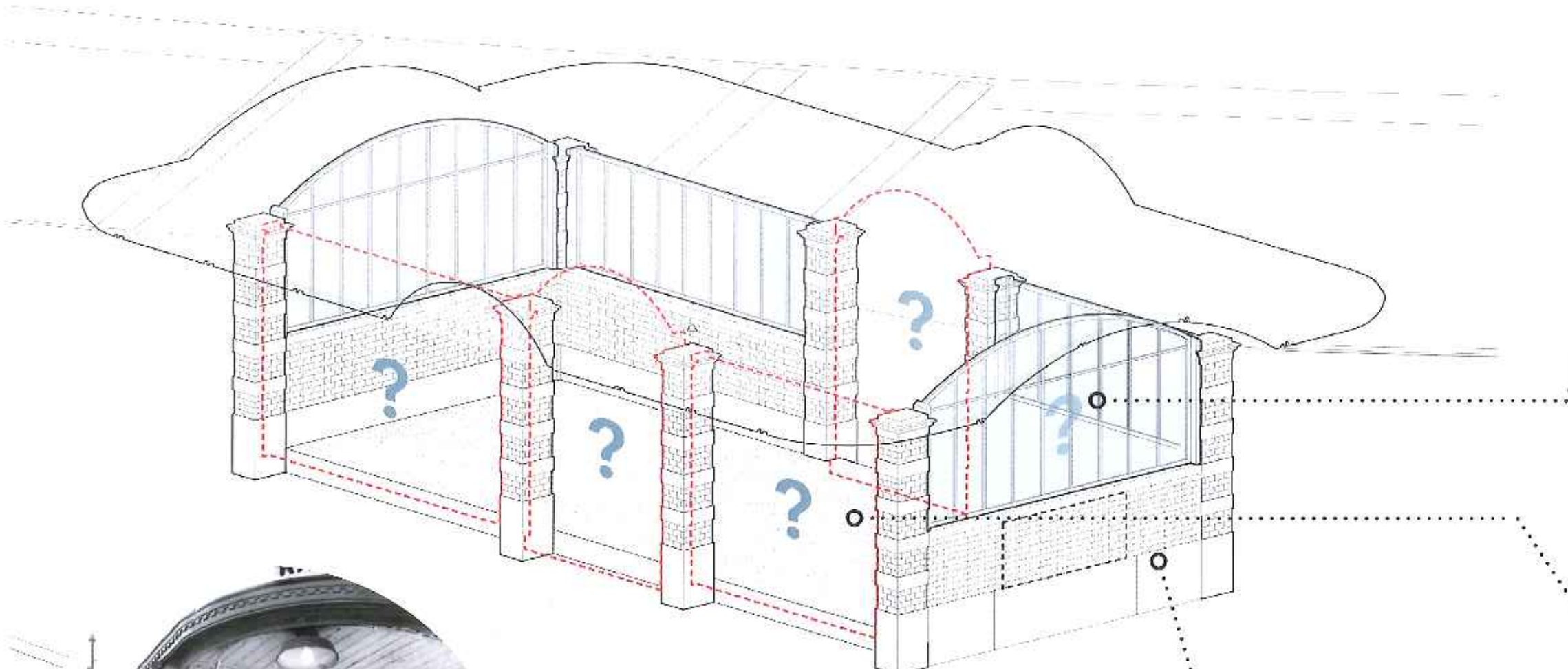
The Historical Commission received a petition seeking landmark designation of the kiosk in September 2016. Although the structure was already protected by the Harvard Square Conservation District under Ch. 2.78, Art. III of the City Code, the Commission voted to initiate the requested study on November 3, 2016. The proposed designation was reviewed at public hearings on September 7 and October 5, 2017. The Final Landmark Designation Report and recommendation were finalized on October 23, 2017 and submitted to the Cambridge Planning Board, which declined to comment. The current version includes recently-received information about the history of the kiosk, but the conclusions and recommendations are unchanged.

Designation of the Harvard Square Kiosk will enhance the Historical Commission's current jurisdiction over alterations to the publicly-visible exterior features of the building. Proposed alterations will still require Historical Commission issuance of Certificates of Appropriateness, Non-Applicability, or Hardship. The historical background in this report is intended to increase awareness of the history and significance of the building, while the proposed goals and guidelines will inform future decisions about alterations.

Charles Sullivan
Cambridge Historical Commission
November 30, 2017

Design Proposal

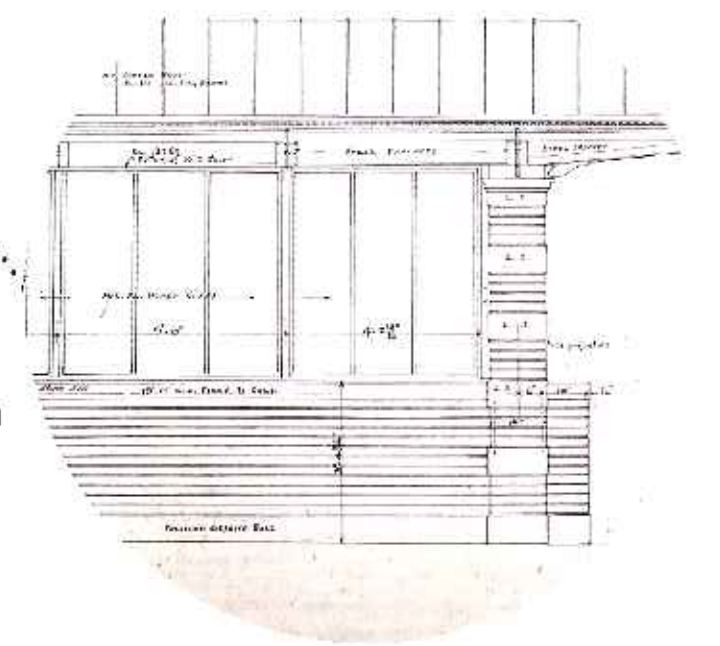
Historic Steel Windows



restore glass with thin dimensions of the original mullions.



original entrance into train

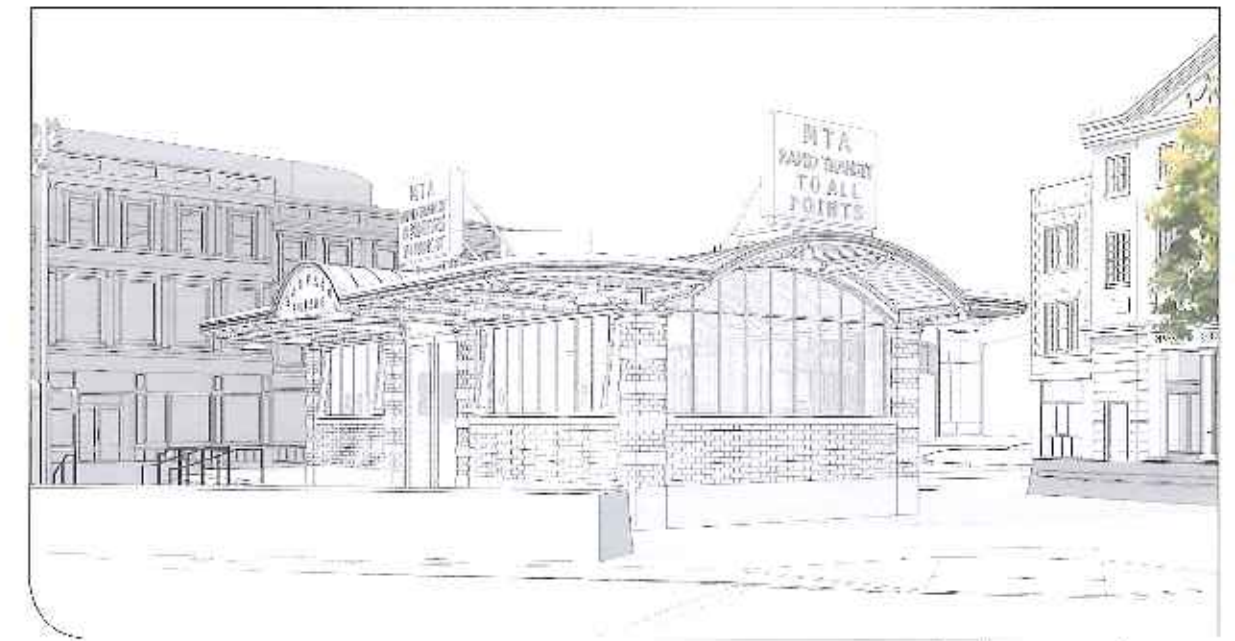
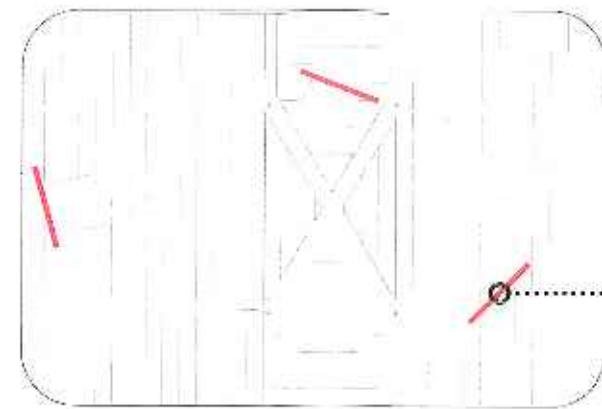
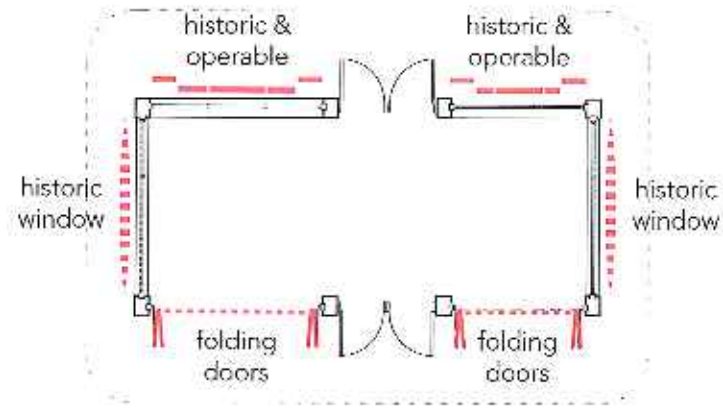


masonry wall reconstruction

historic elevations

Design Proposal

Operable Doors + Historic Rooftop Signage

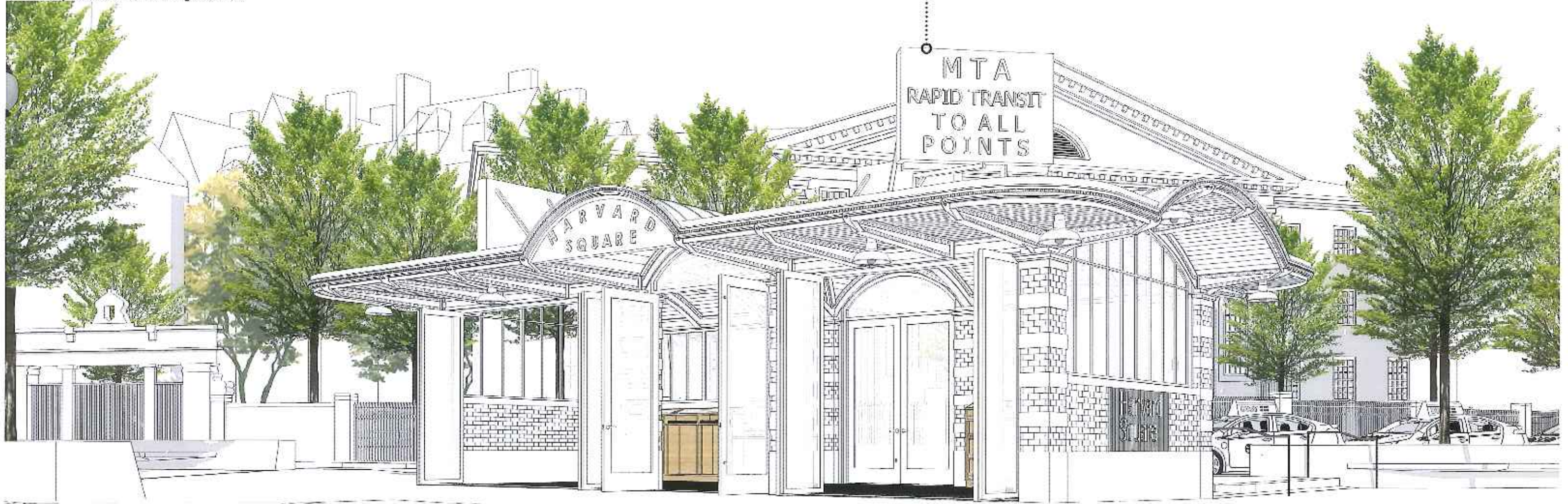


view looking southwest

key floor plan
signage panels: 4'-0" tall x 6'-0" wide (approx.)
structurally feasible with existing structure

key roof plan

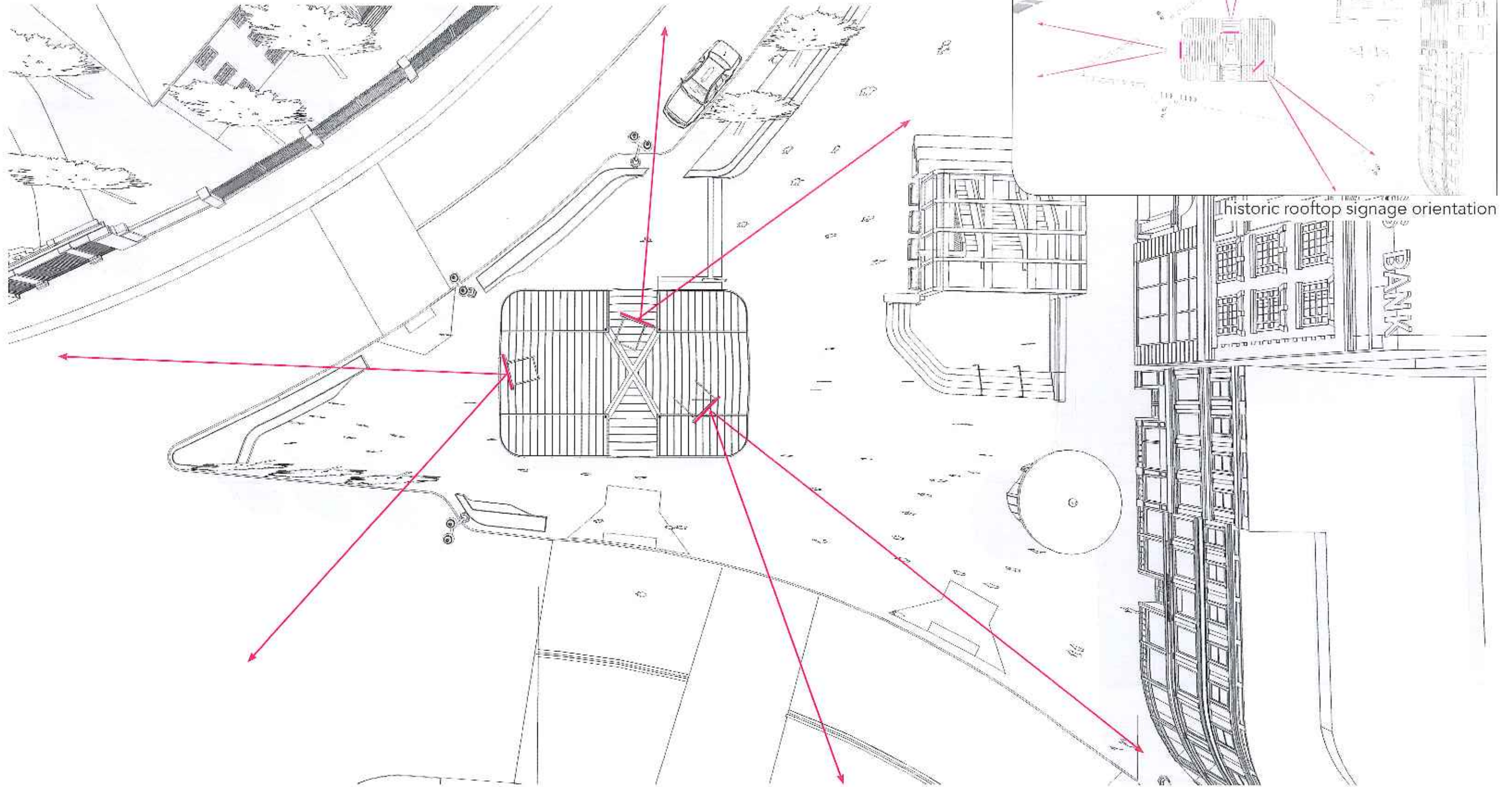
historic signage



view looking northeast

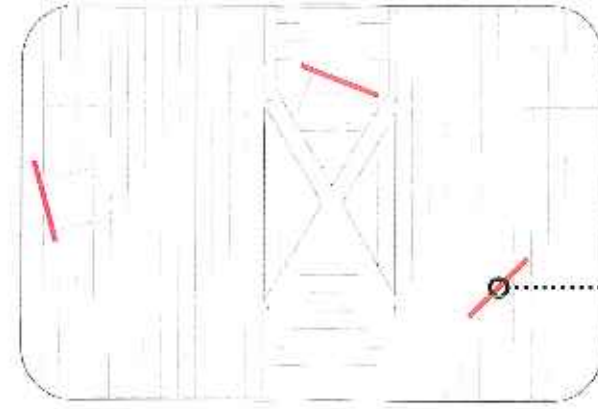
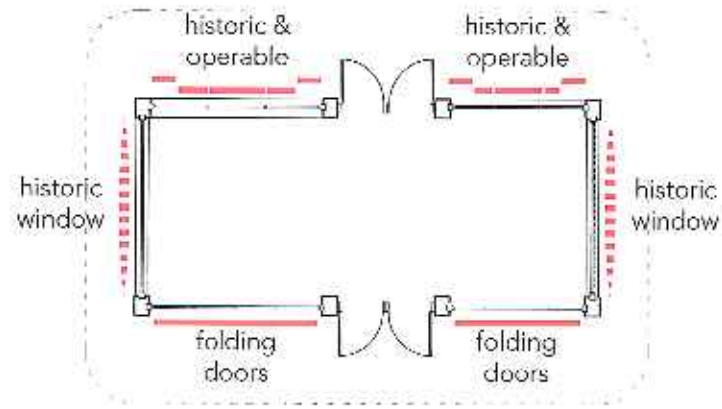
Design Proposal

Proposed Rooftop Signage Orientation

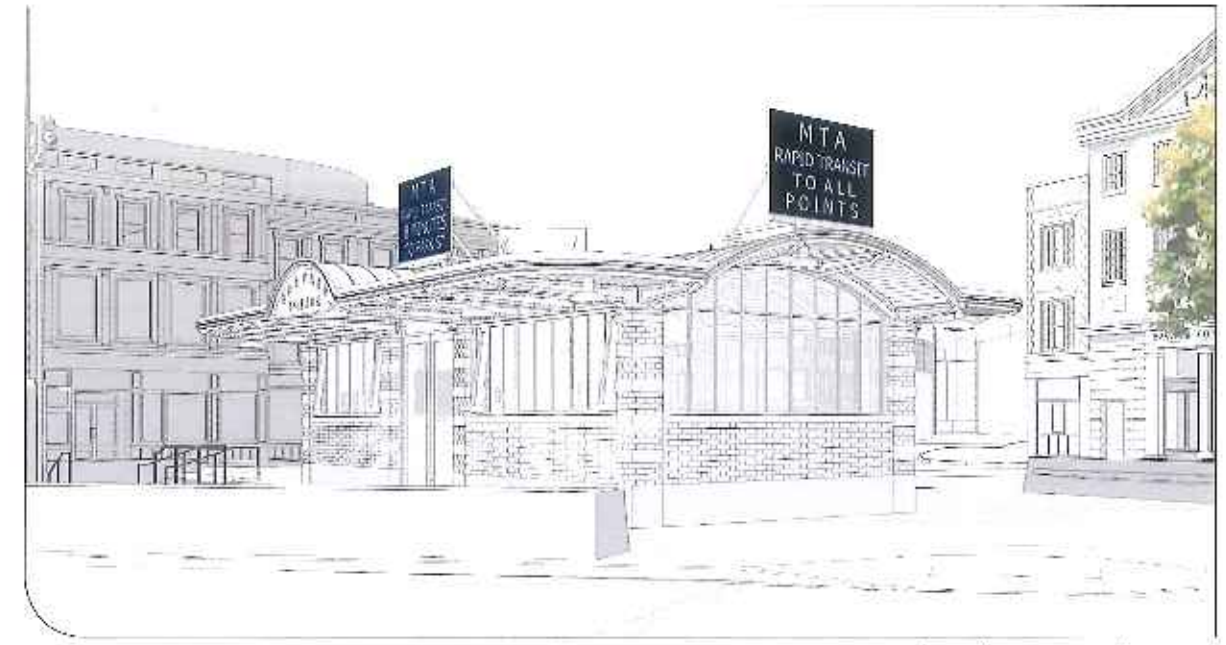


Design Proposal

Operable Doors + Digital Rooftop Signage

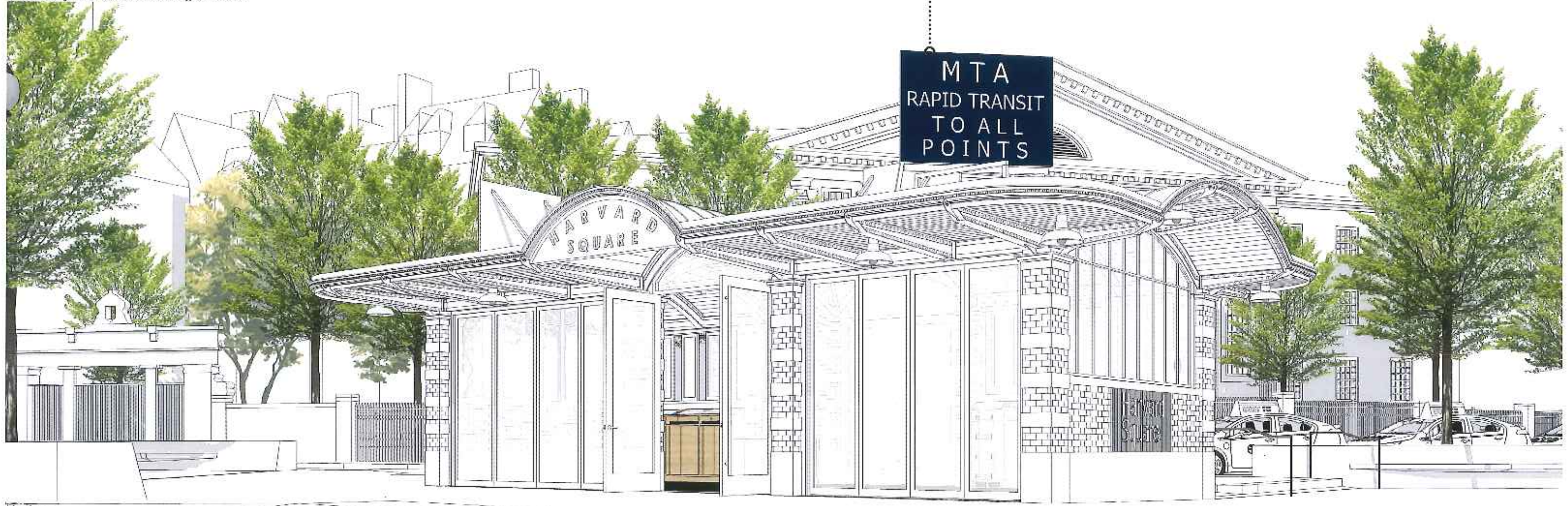


digital signage with historic content



view looking southwest

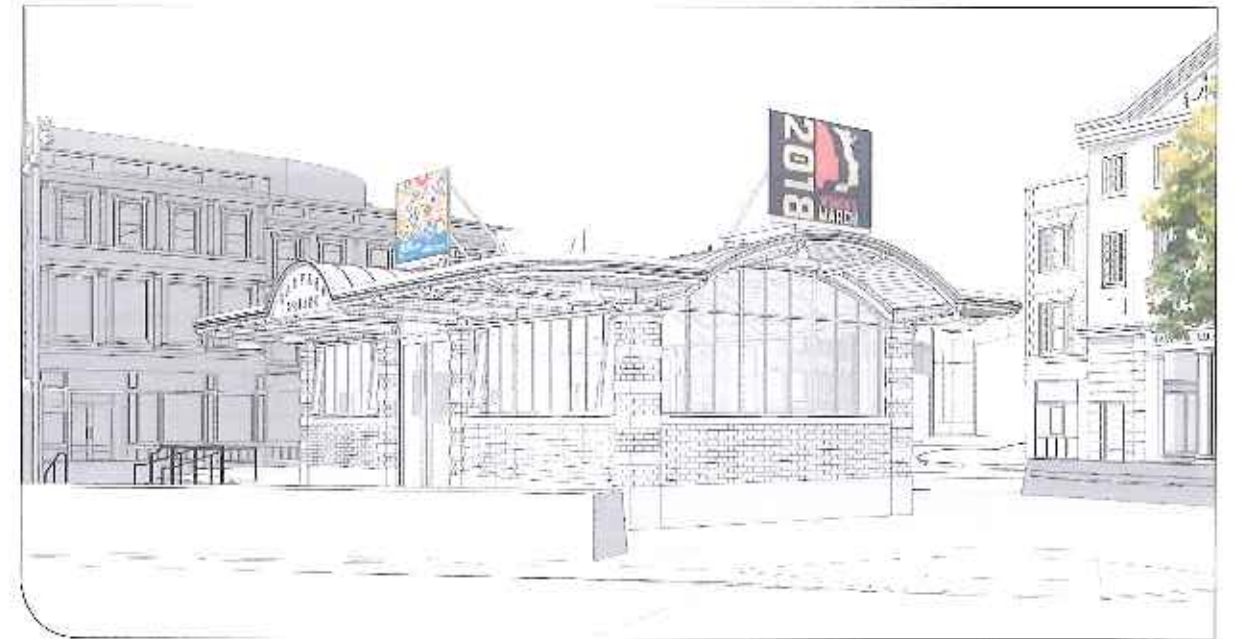
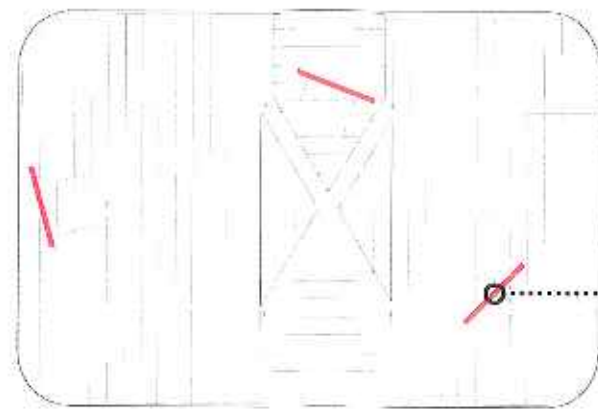
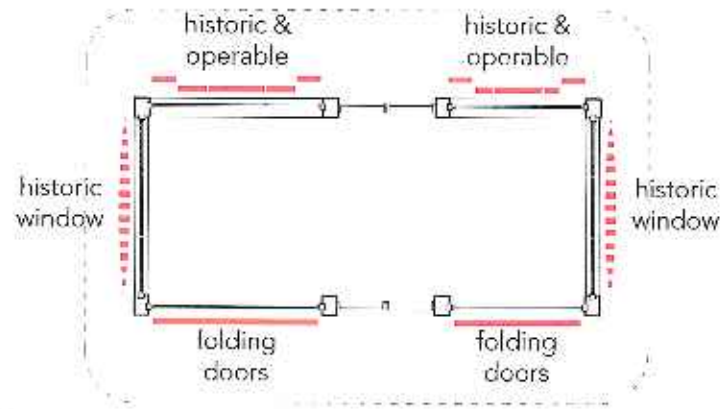
key floor plan
signage panels: 4'-0" tall x 6'-0" wide (approx.)
structurally feasible with existing structure



view looking northeast

Design Proposal

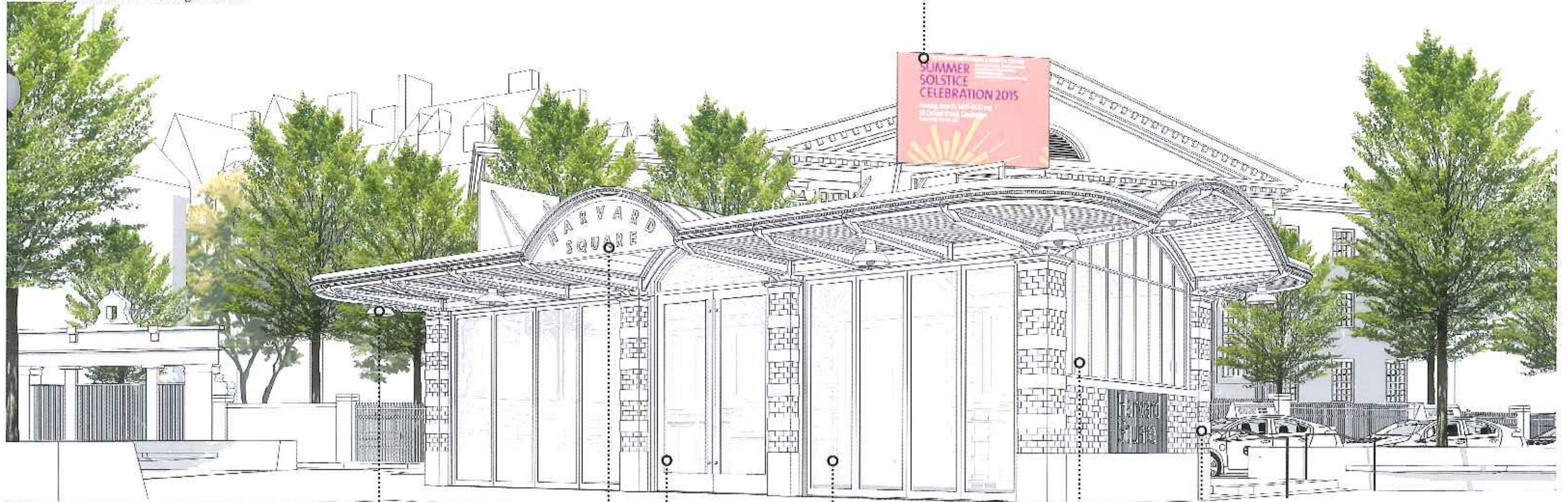
Operable Doors + Digital Rooftop Signage



view looking southwest

key floor plan
signage panels: 4'-0" tall x 6'-0" wide (approx.)
structurally feasible with existing structure

key roof plan



view looking northeast

- 1 historic lights
- 2 restored vacuum formed signage
- 3 accessible entry doors
- 4 folding glass doors
- 5 indoor / outdoor brick flooring
- 6 historic windows
- 7 restored south facade with signage

Design Proposal

Harvard Square Signage



Design Proposal

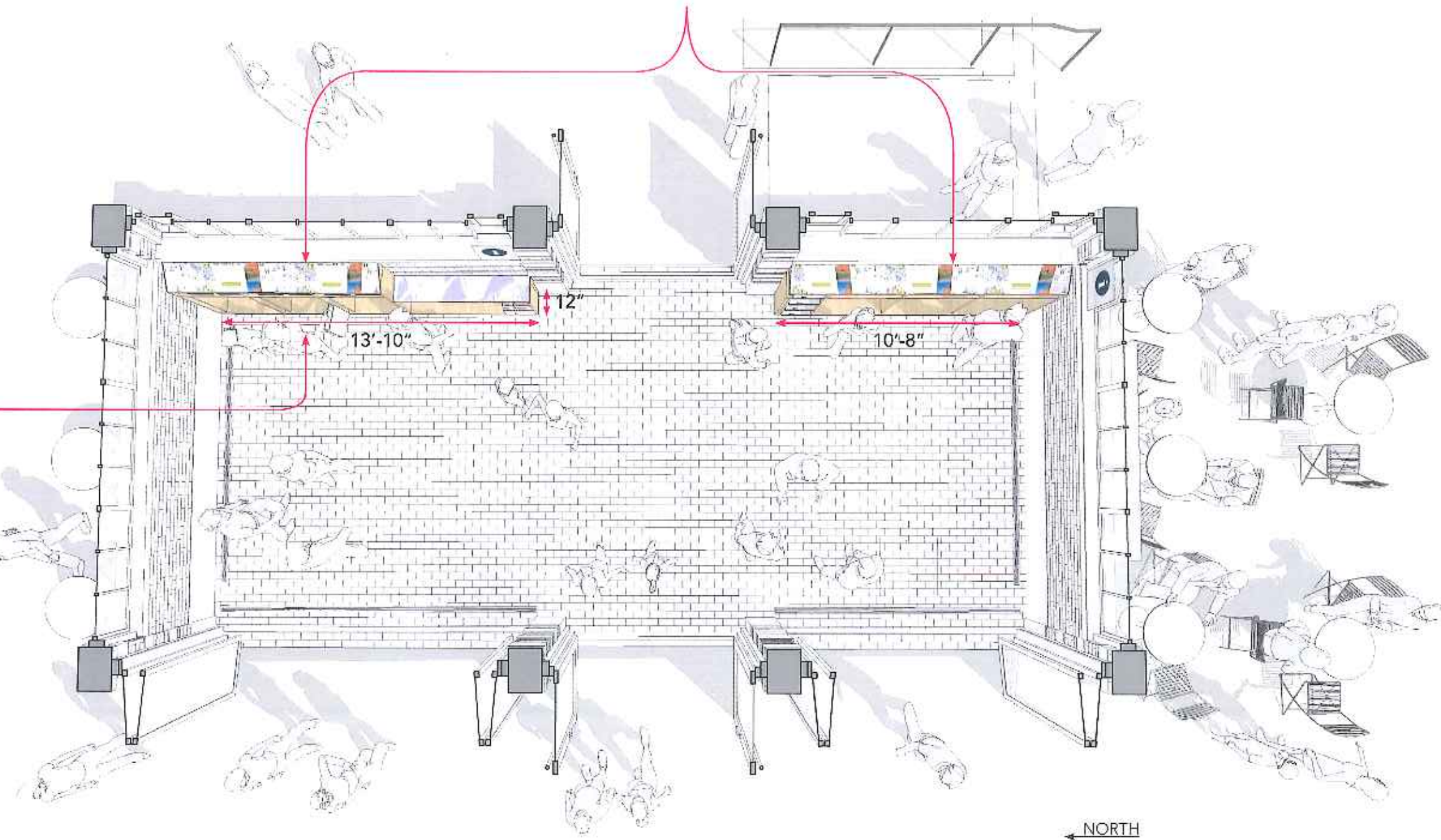
Daily Uses - Visitor Information



Visitor Information

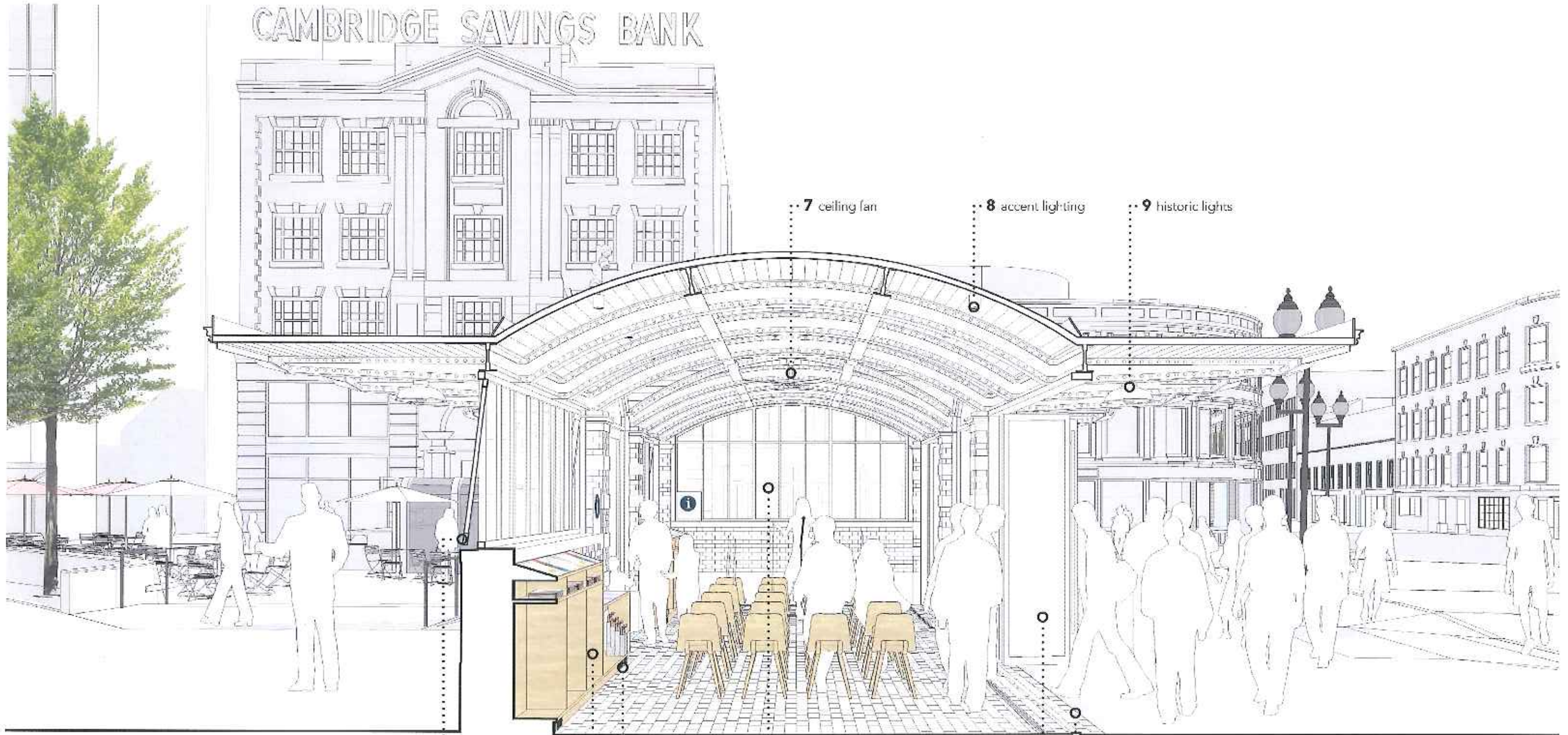


flexible storage with foldable tables and stackable chairs



Design Proposal

Daily Uses - Alternative Programs



1 awning window

2 visitor information casework

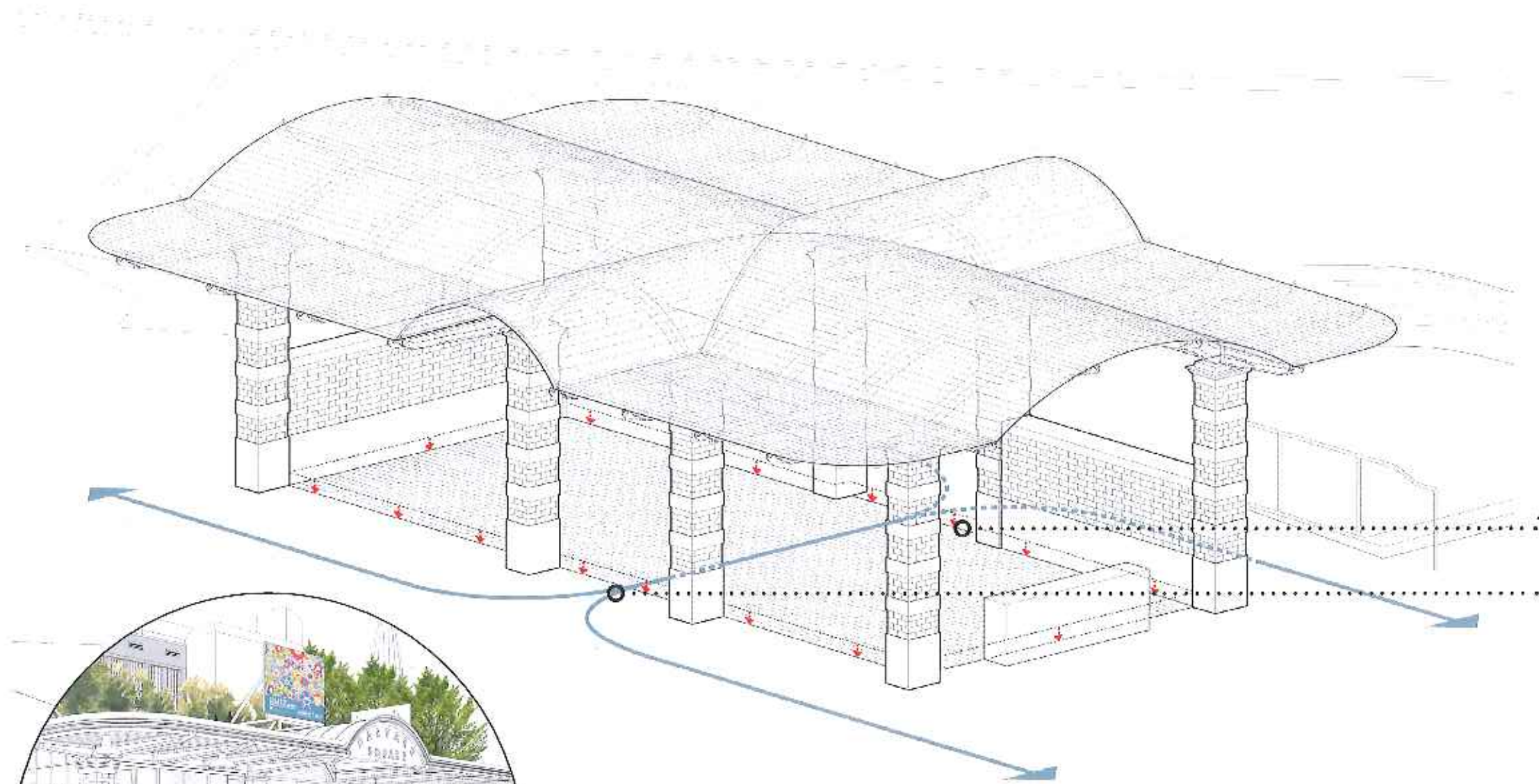
3 toe kick heater

4 historic windows 5 folding glass doors

6 indoor / outdoor brick flooring

Preservation + Renovation Approach

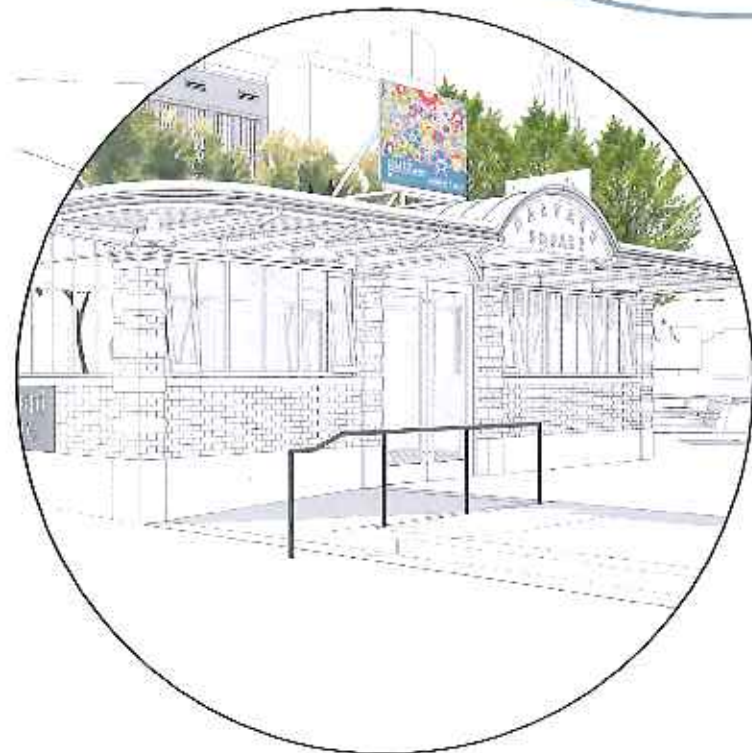
Accessibility - Lower Finish Floor Elevation by Approx. 8 inches



present day entry - east



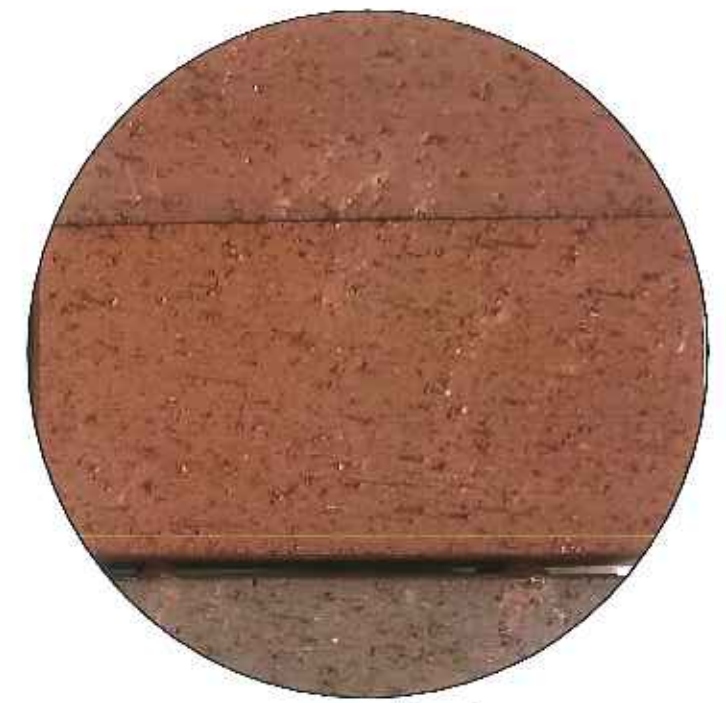
present day entry - west



proposed accessible ramp at east elevation

Preservation + Renovation Approach

Floor Material - Indoor / Outdoor Brick Flooring



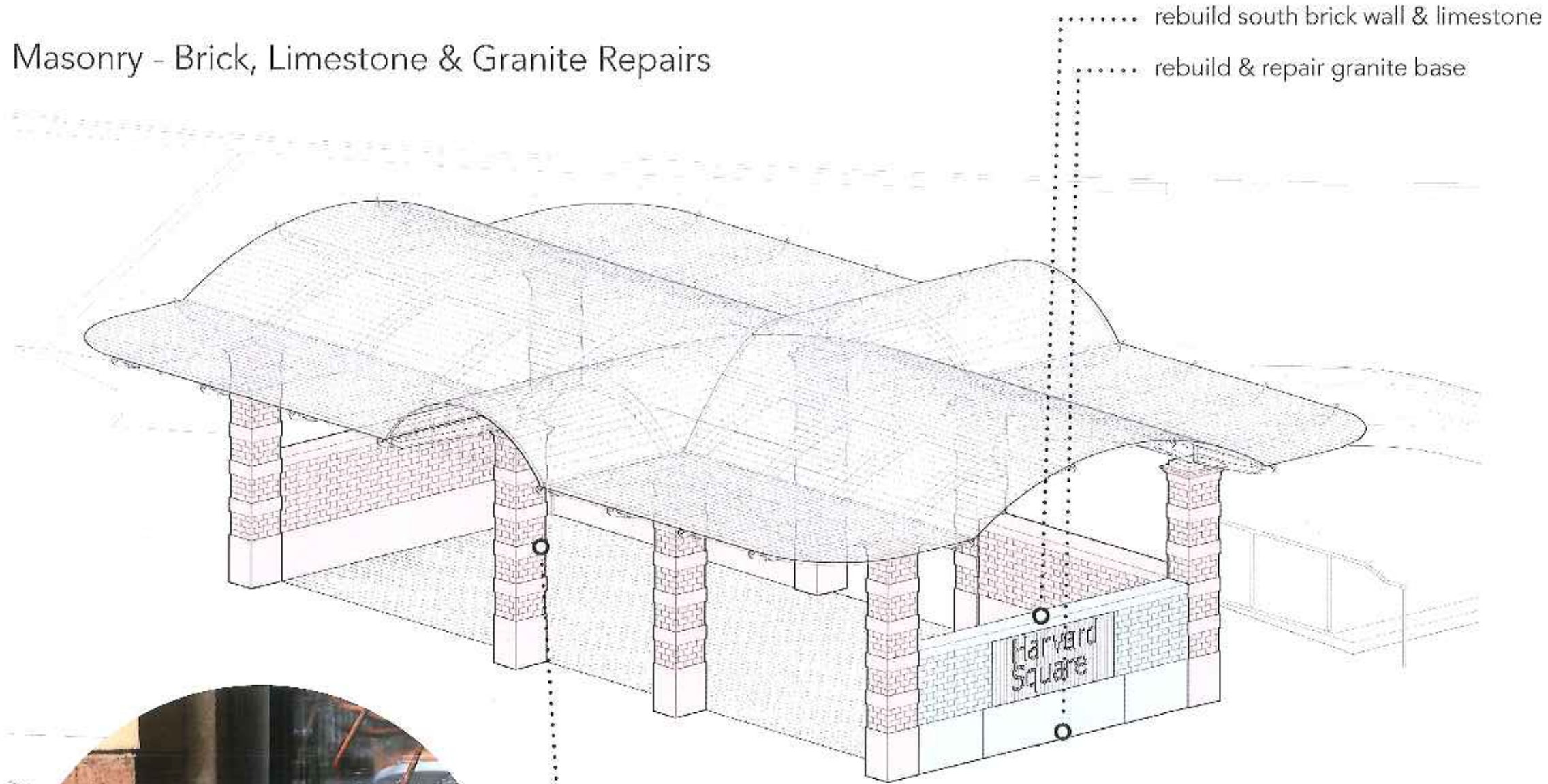
proposed brick
City of Cambridge Standard
pathway HD full range



address MAAB compliant
brick floor

Preservation + Renovation Approach

Masonry - Brick, Limestone & Granite Repairs



Preservation + Renovation Approach

Masonry - Granite Test Pits



area of potentially exposed granite ..



polished granite ...
unfinished granite ...

test pit photograph



polished granite ...
unfinished granite ...

test pit photograph

Preservation + Renovation Approach

Masonry - Brick, Limestone & Granite Repairs - North Elevation



1
spall / no repair



2a-b
hole / patch



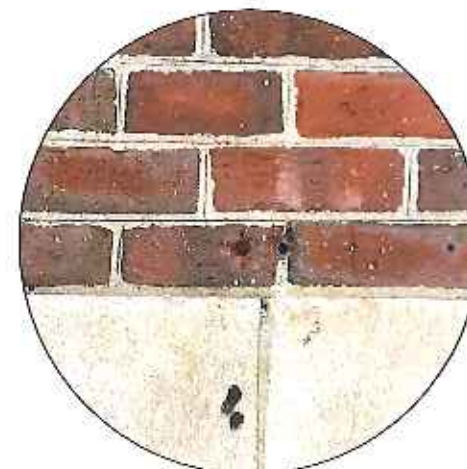
3
limestone spall / dutchman



4
anchor / remove and patch



5
two small spalls / one dutchman at end of stone



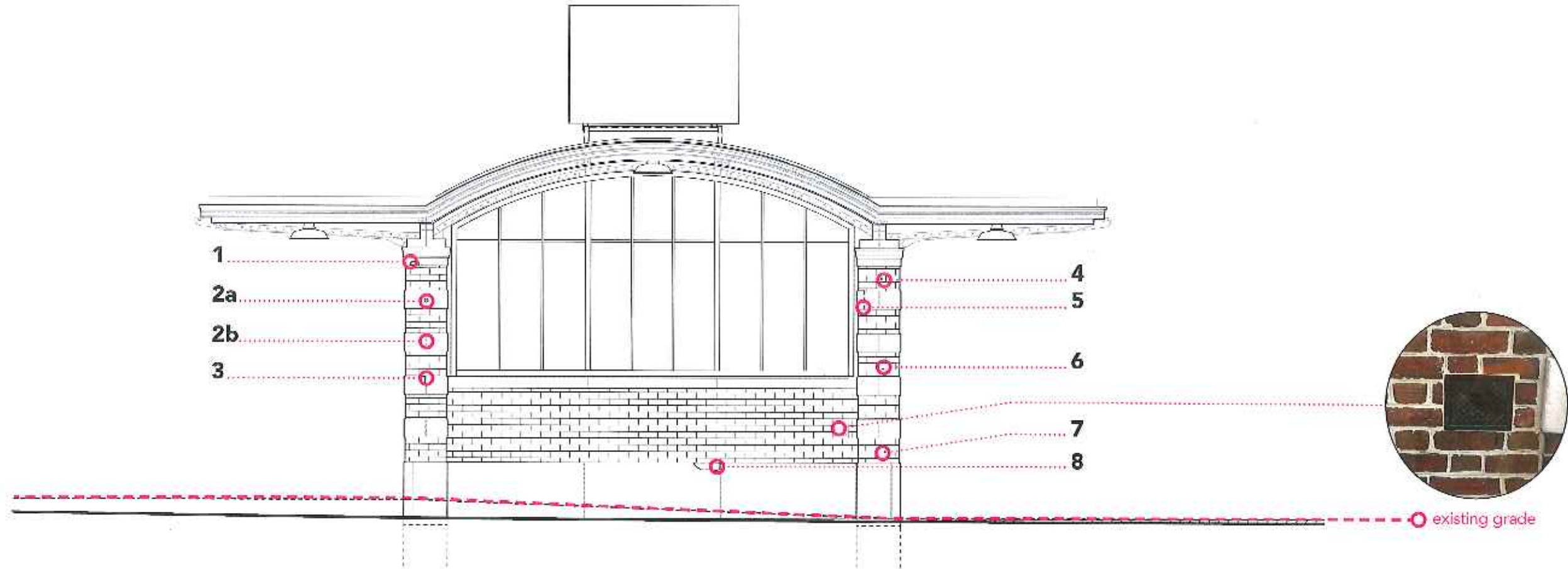
6
anchor / remove and patch



7
anchor / remove and patch

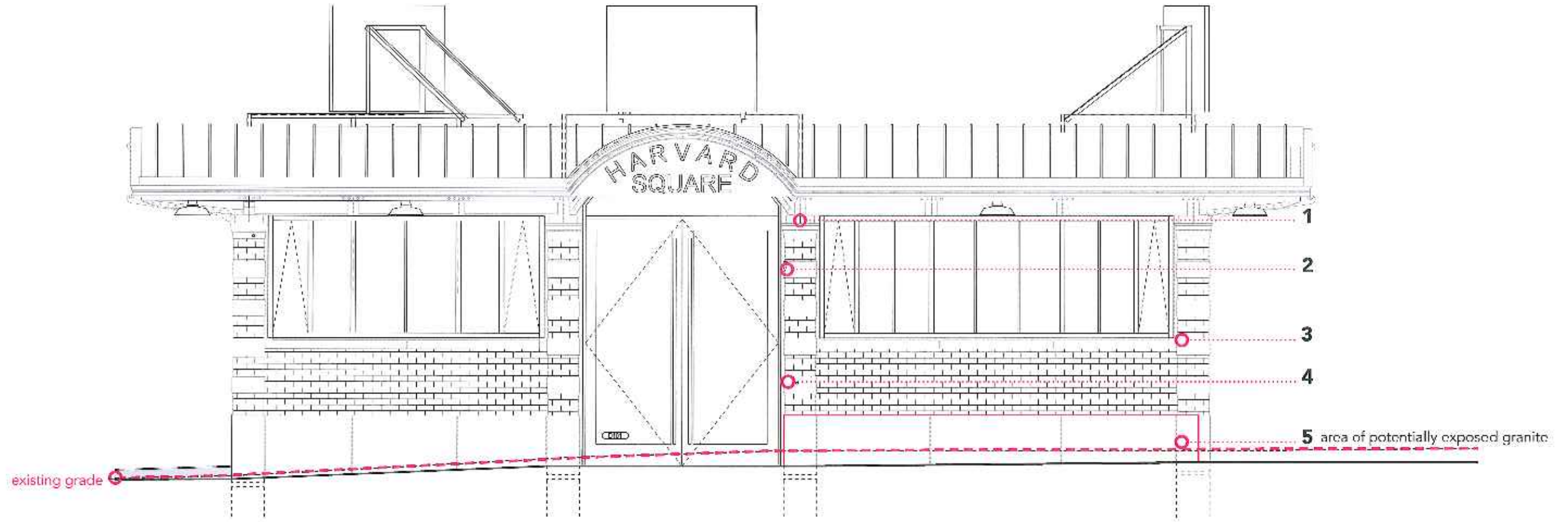


8
granite spall / dutchman



Preservation + Renovation Approach

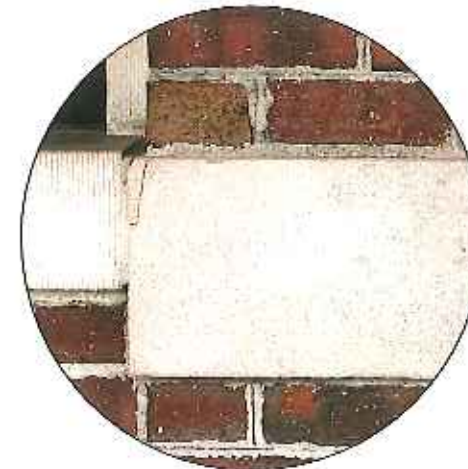
Masonry - Brick, Limestone & Granite Repairs - East Elevation



1
limestone spall / dutchman



2
limestone spall / dutchman



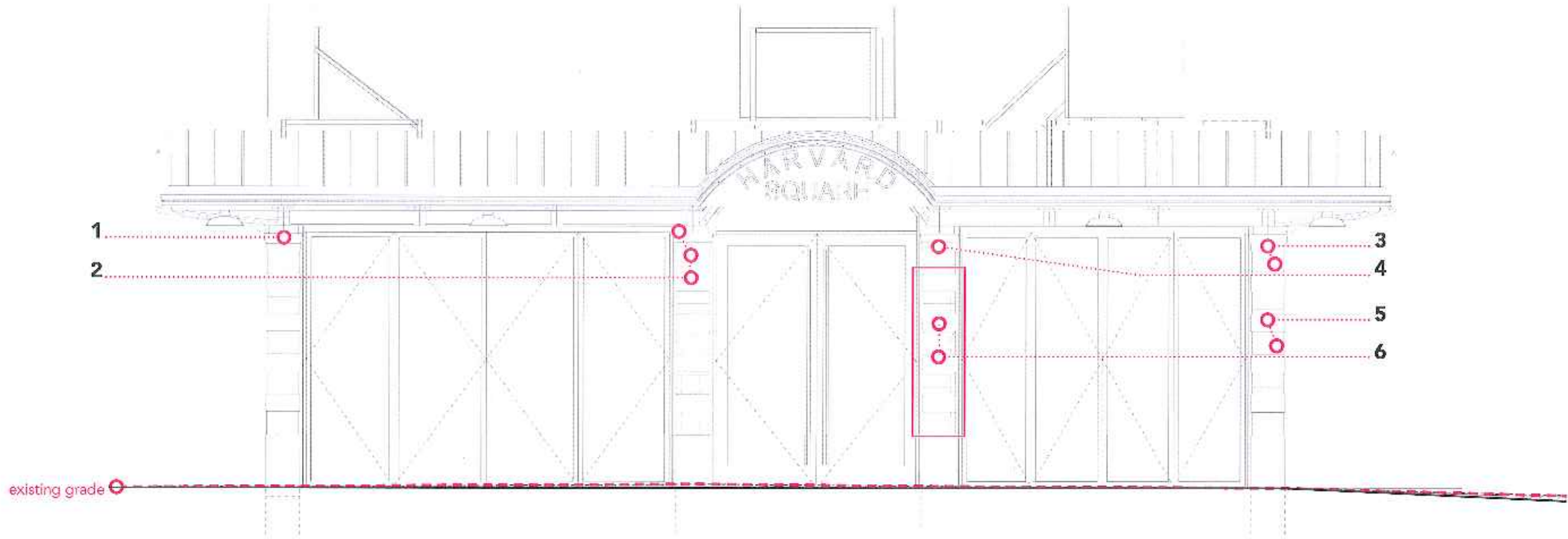
3
limestone spall / no repair



4
anchor / remove and patch

Preservation + Renovation Approach

Masonry - Brick, Limestone & Granite Repairs - West Elevation



1

anchor / remove and patch



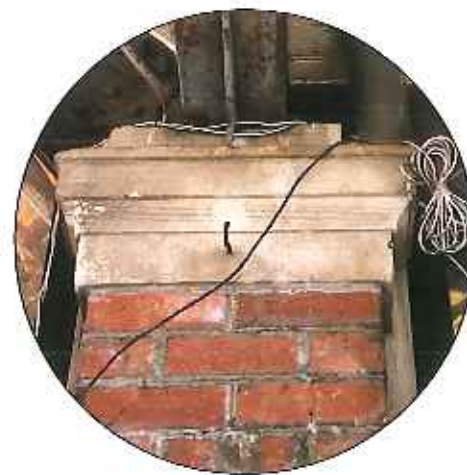
2

anchor / remove and patch
limestone spall / dutchman



3

anchor / remove and patch



4

anchor / remove and patch



5

anchors / remove and patch
hole / patch

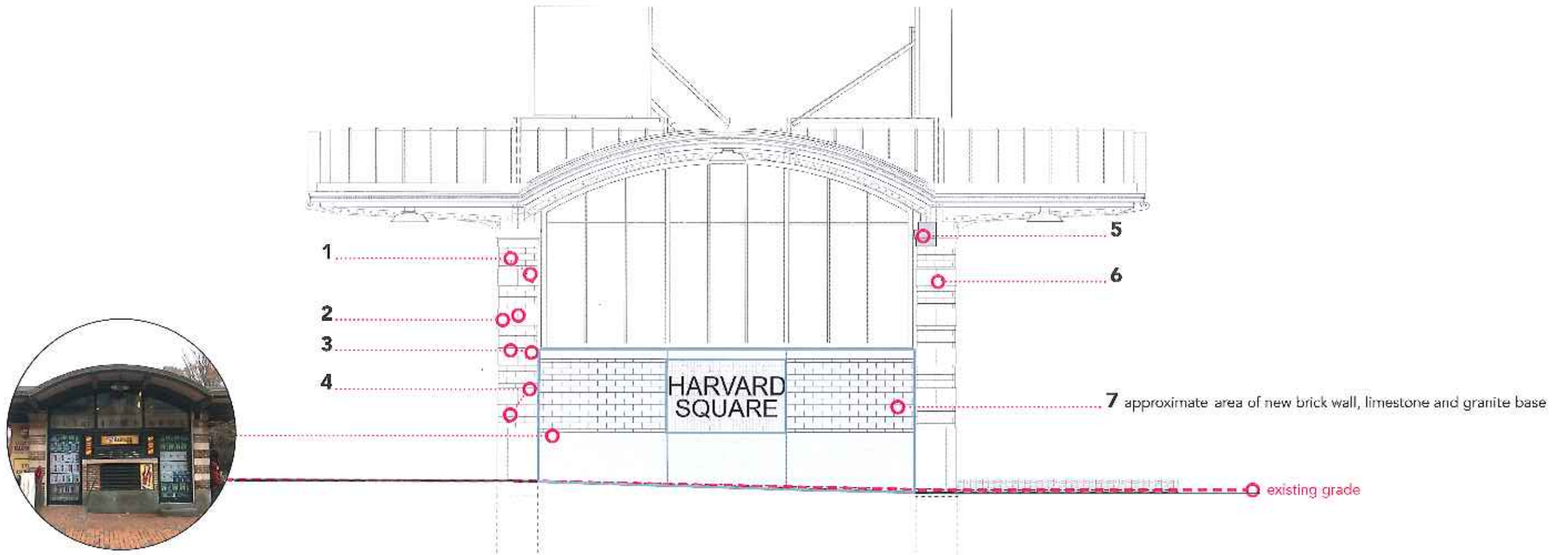


6

anchors / remove and patch
area of repeated water
saturation and biological growth

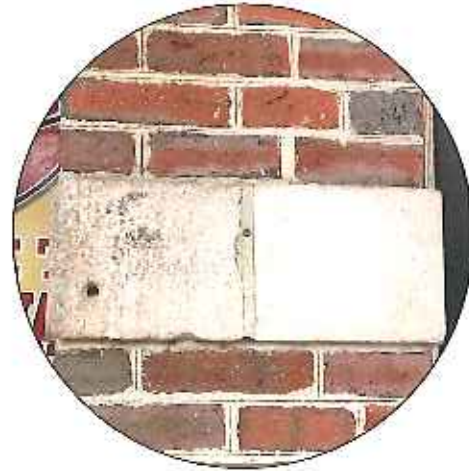
Preservation + Renovation Approach

Masonry - Brick, Limestone & Granite Repairs - South Elevation



1

anchors / remove and patch hole / patch



2

anchors / remove and patch hole / patch



3

anchors / remove and patch hole / patch



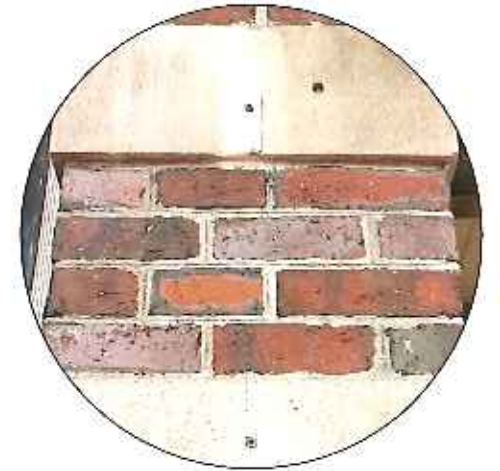
4

anchors / remove and patch



5

limestone return missing / replicate

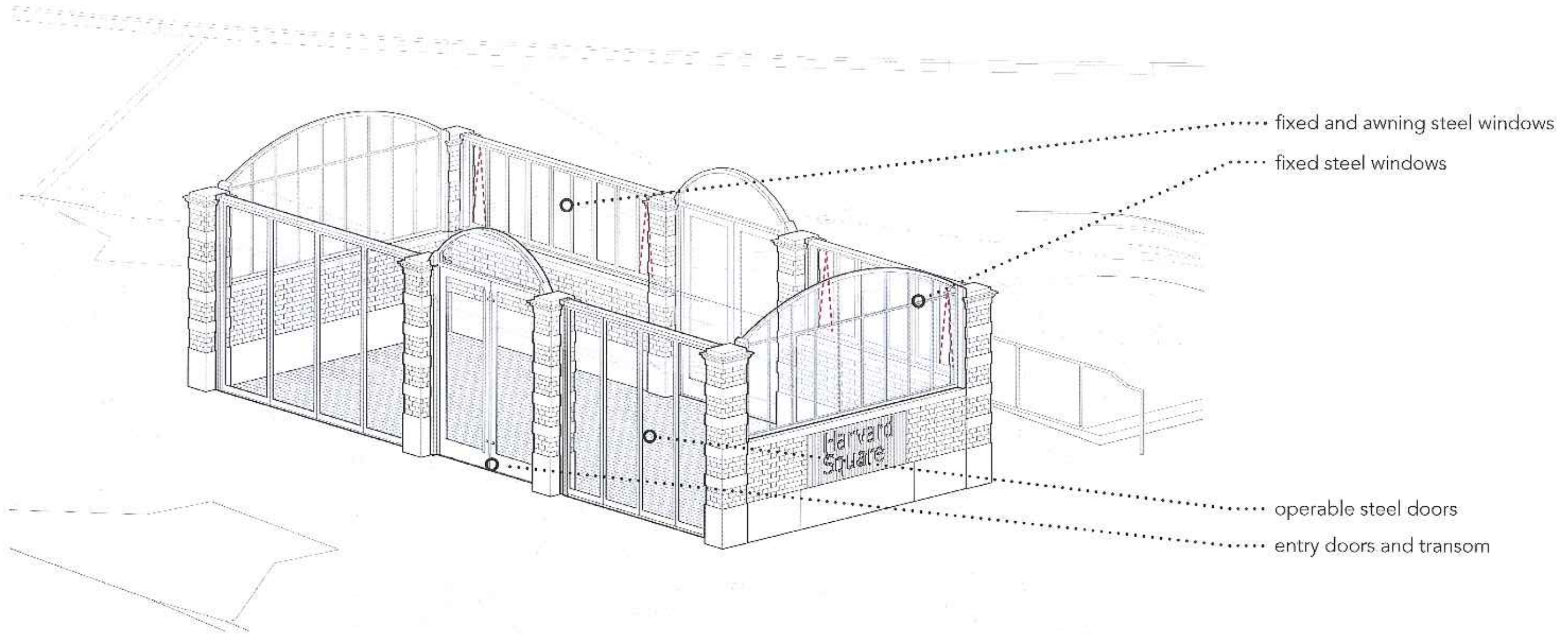


6

anchor / remove and patch hole / patch

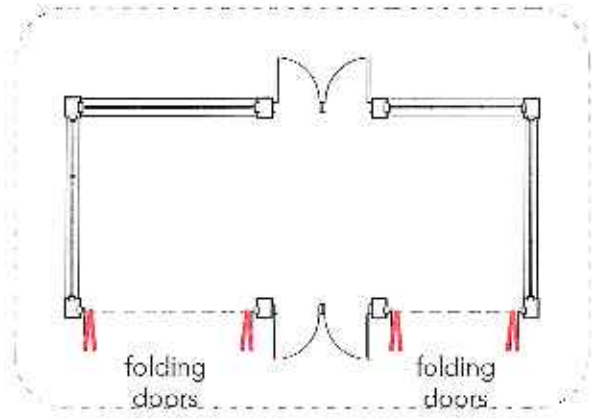
Preservation + Renovation Approach

Doors and Windows

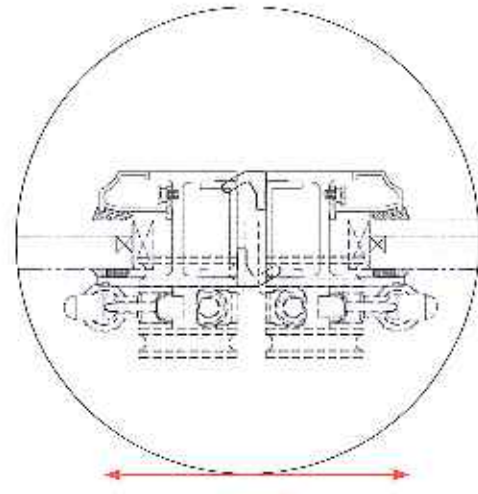


Preservation + Renovation Approach

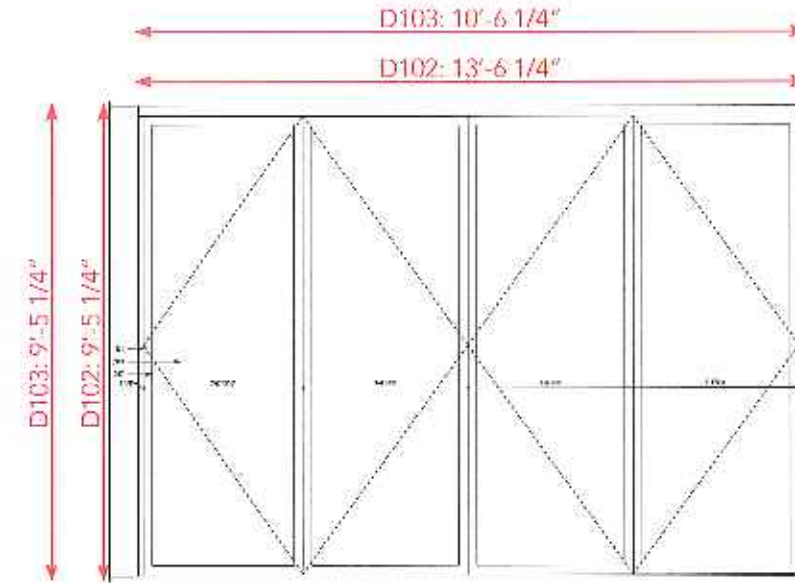
Proposed Slide and Fold Doors at the West Elevation



key plan

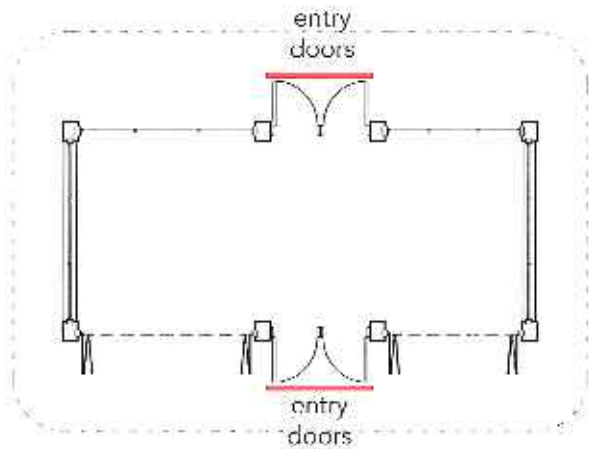


LIFT AND SLIDE VERTICAL MULLION



key elevation

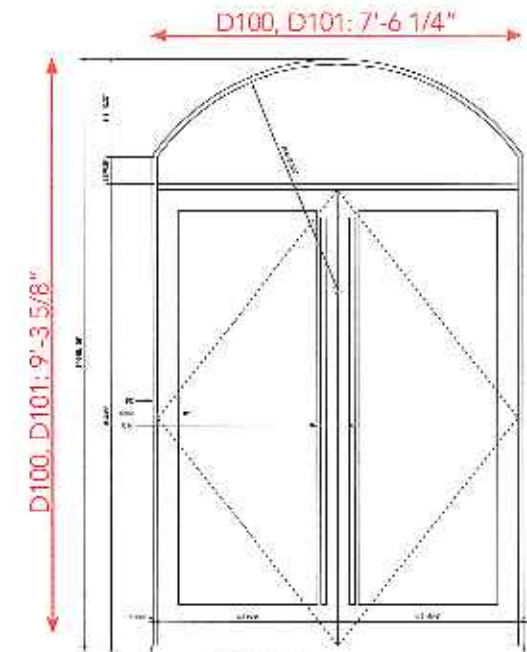
Proposed Entry Doors at the East and West Elevation HOPE'S 5000 Series



key plan



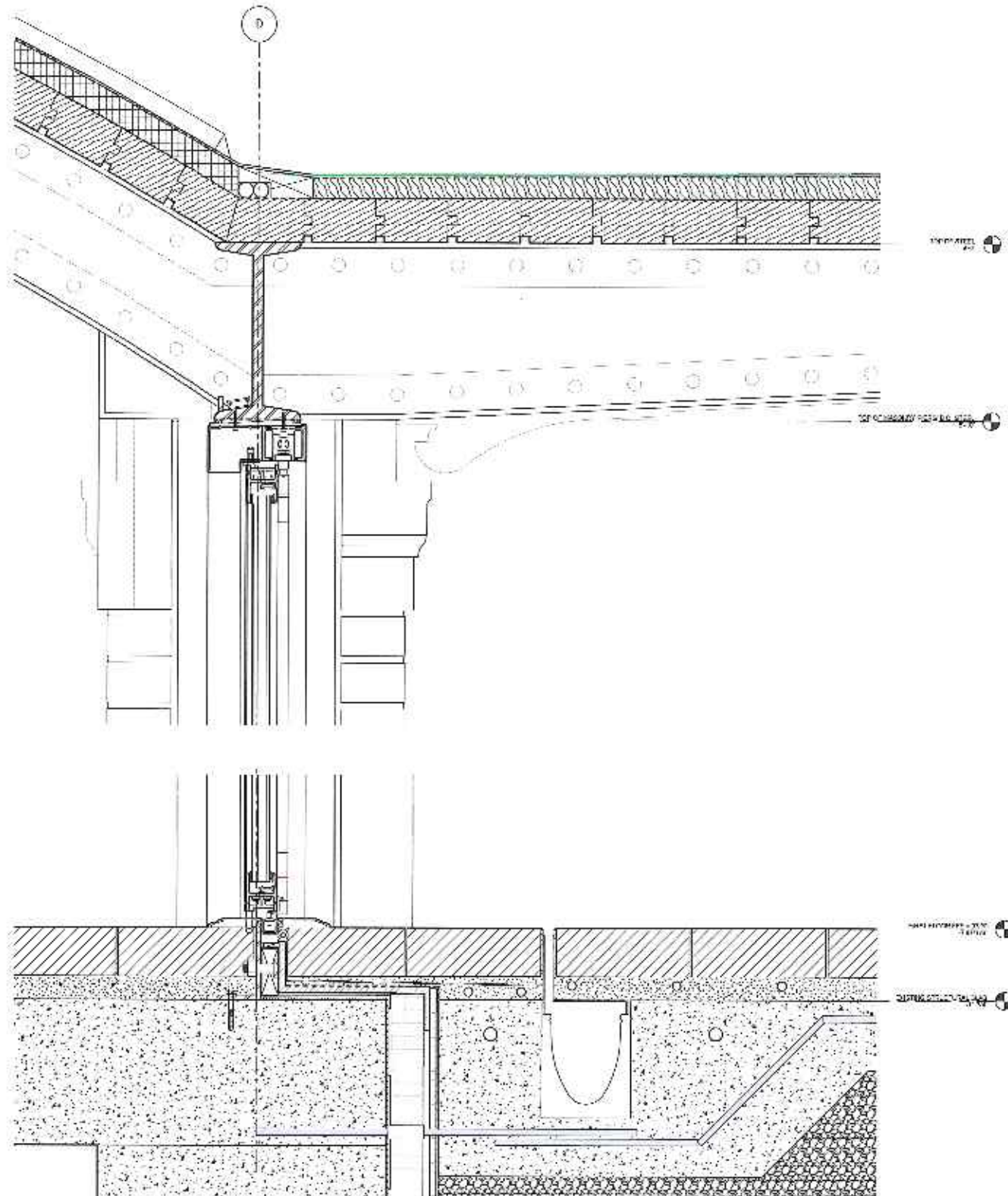
OUTSWING DOUBLE DOOR JAMB FRAME



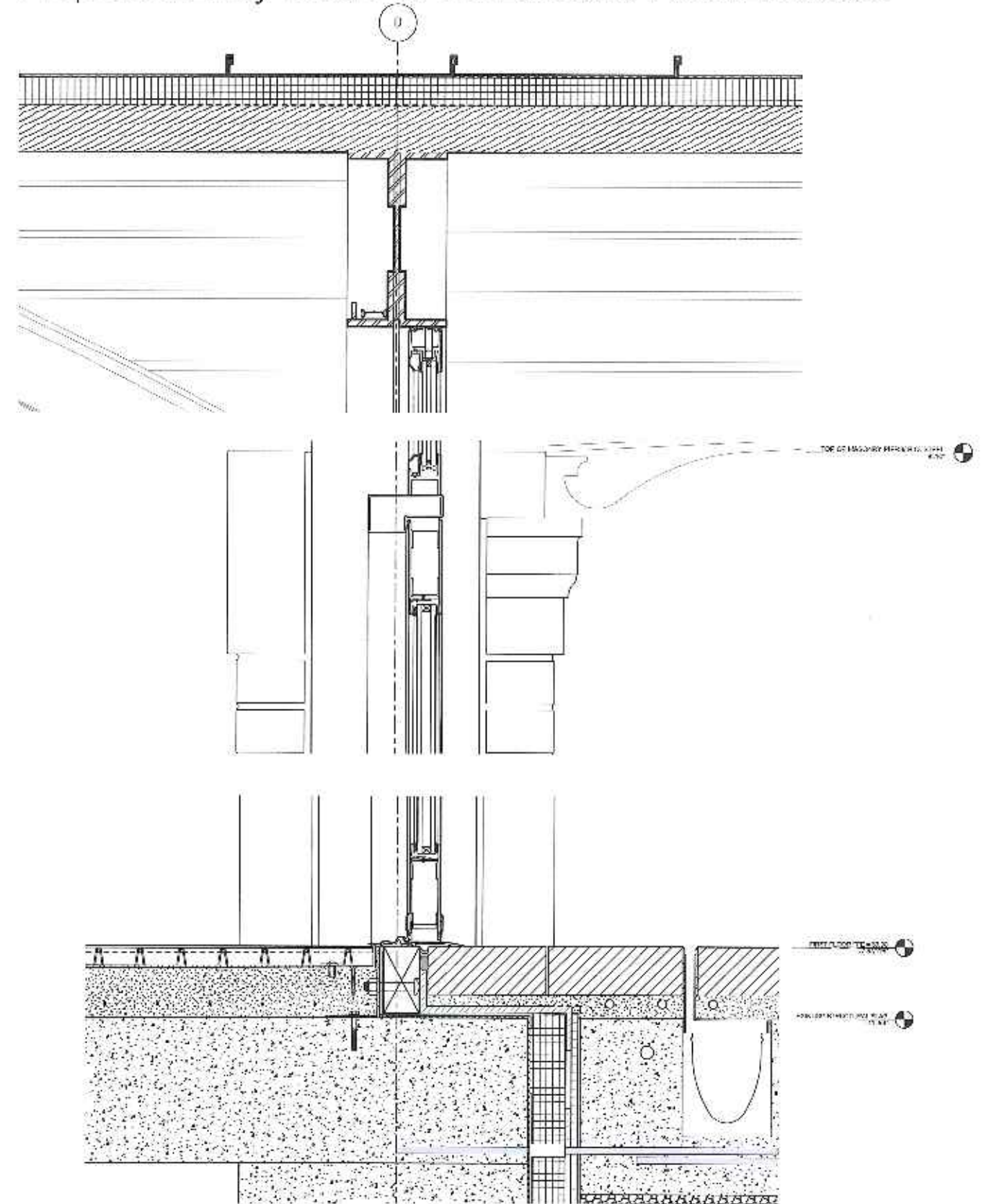
key elevation

Preservation + Renovation Approach

Proposed Slide and Fold Doors at the West Elevation

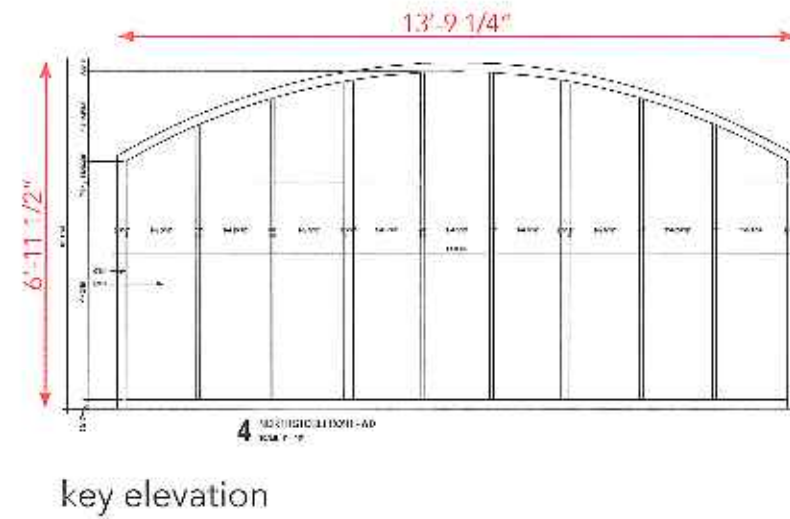
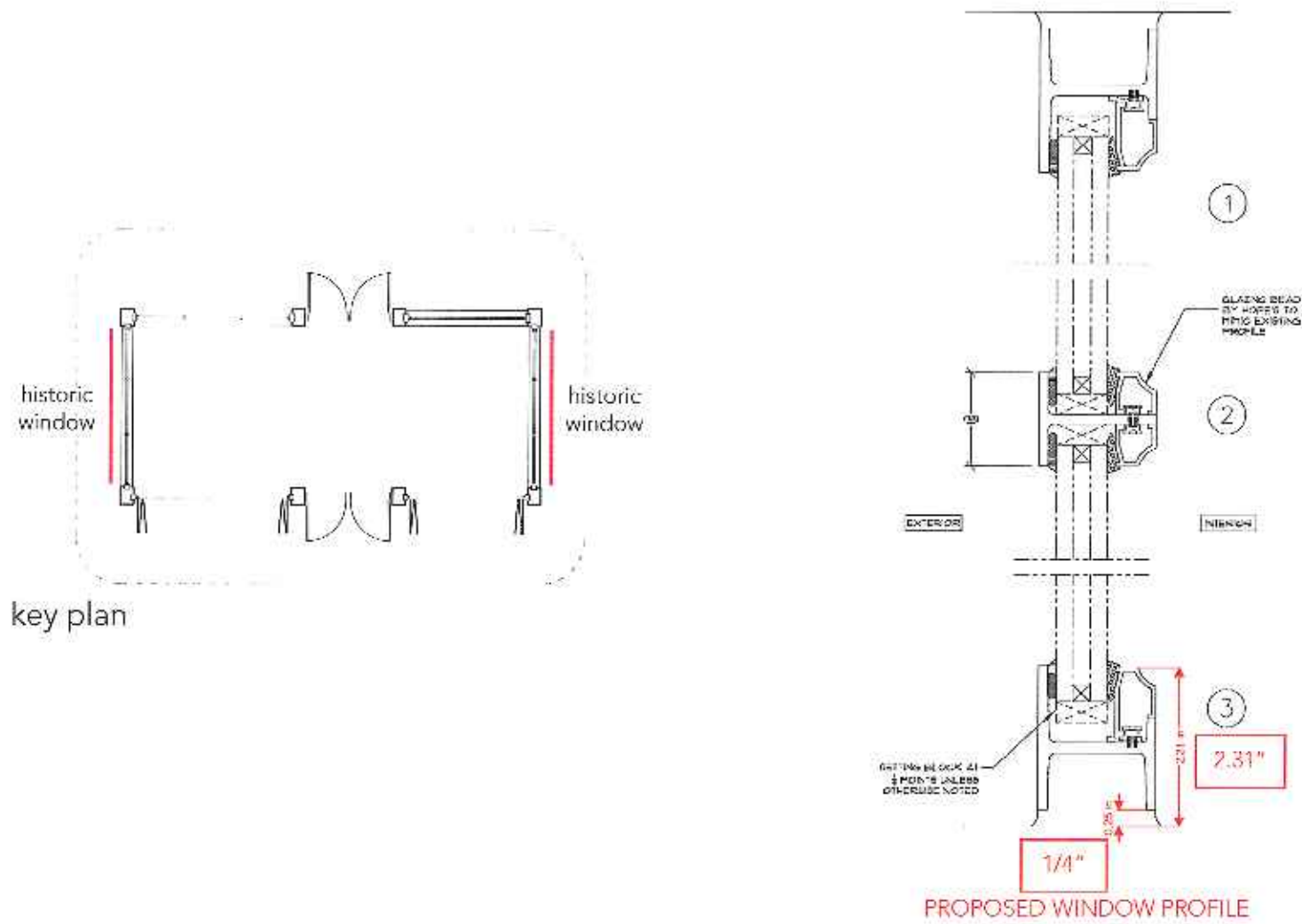


Proposed Entry Doors at the East and West Elevation

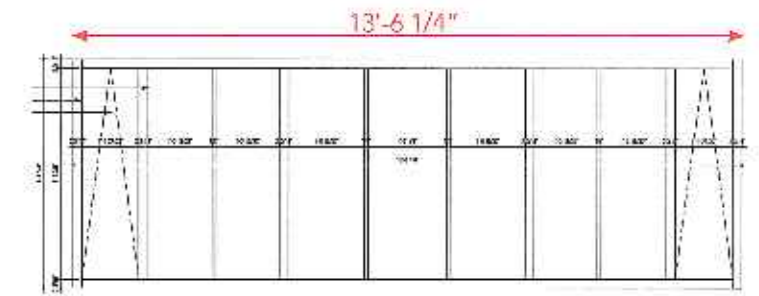
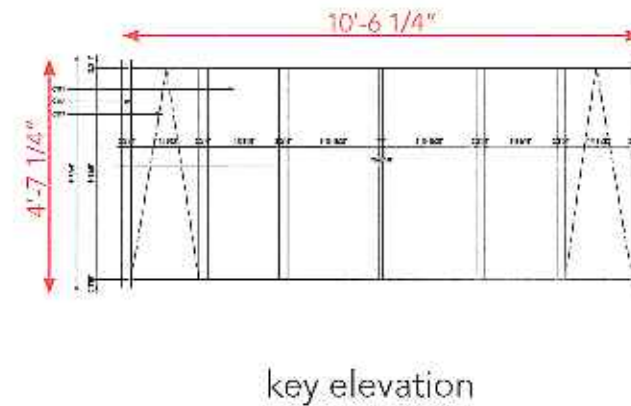
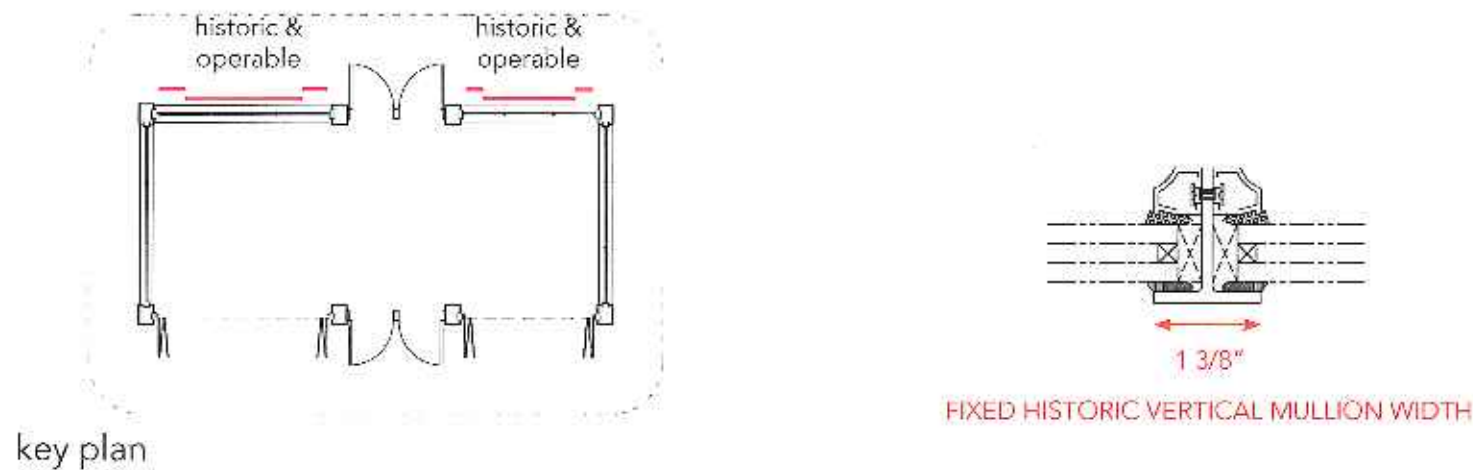


Preservation + Renovation Approach

Proposed Steel Windows at the North and South Elevation

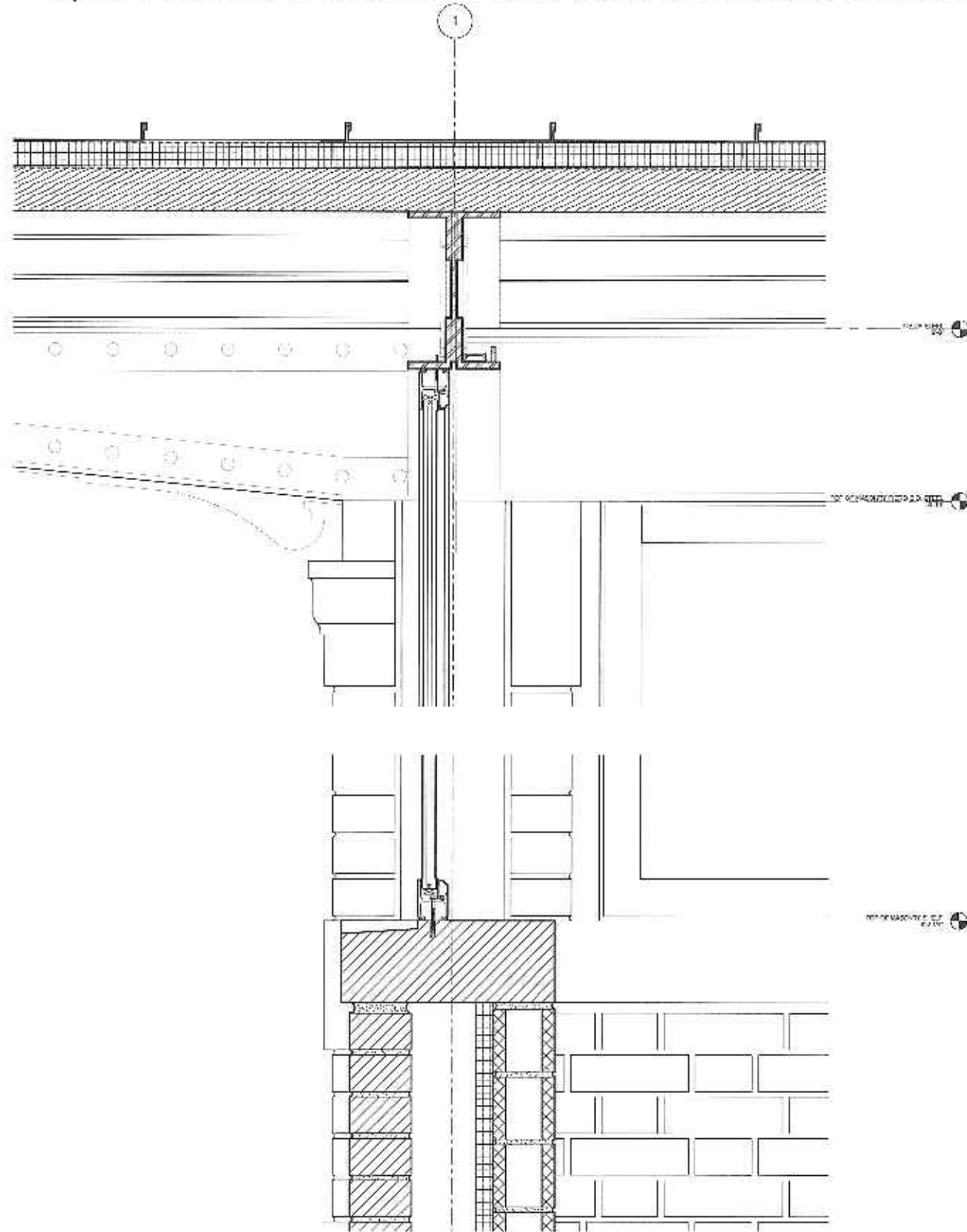


Proposed Steel Windows at the East Elevation

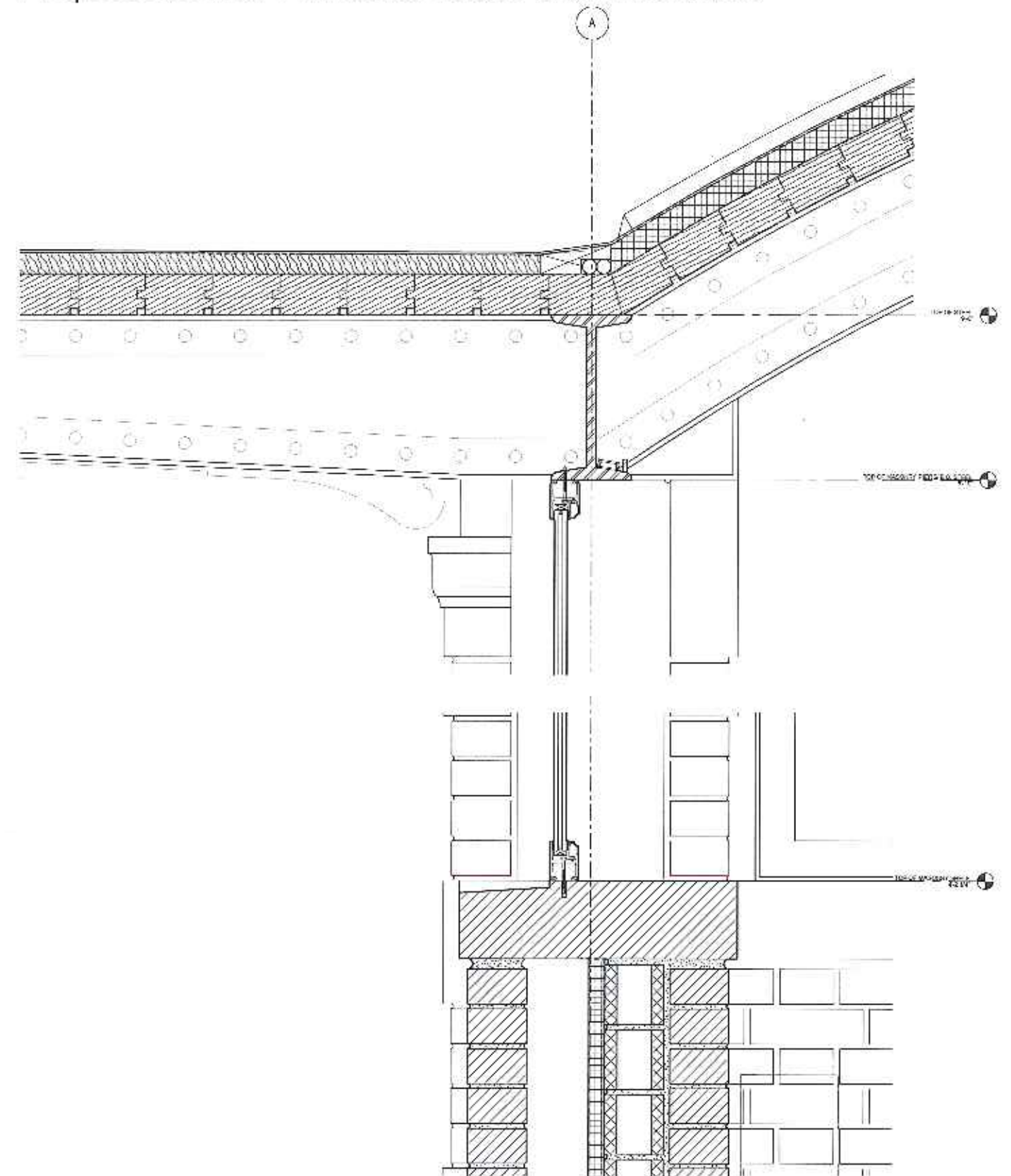


Preservation + Renovation Approach

Proposed Steel Windows at the North and South Elevation

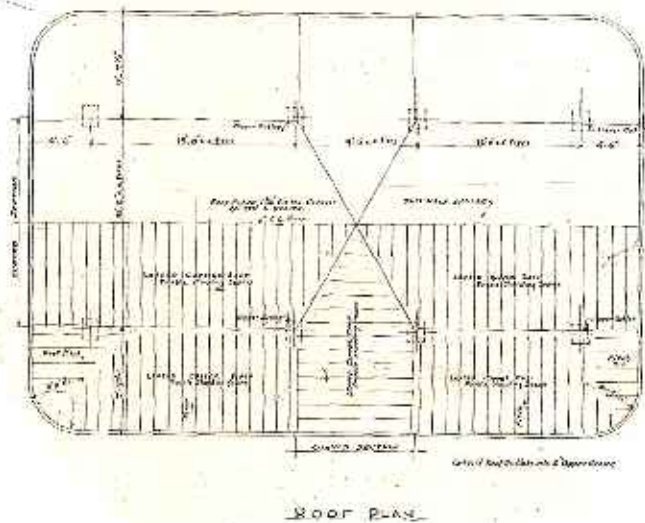
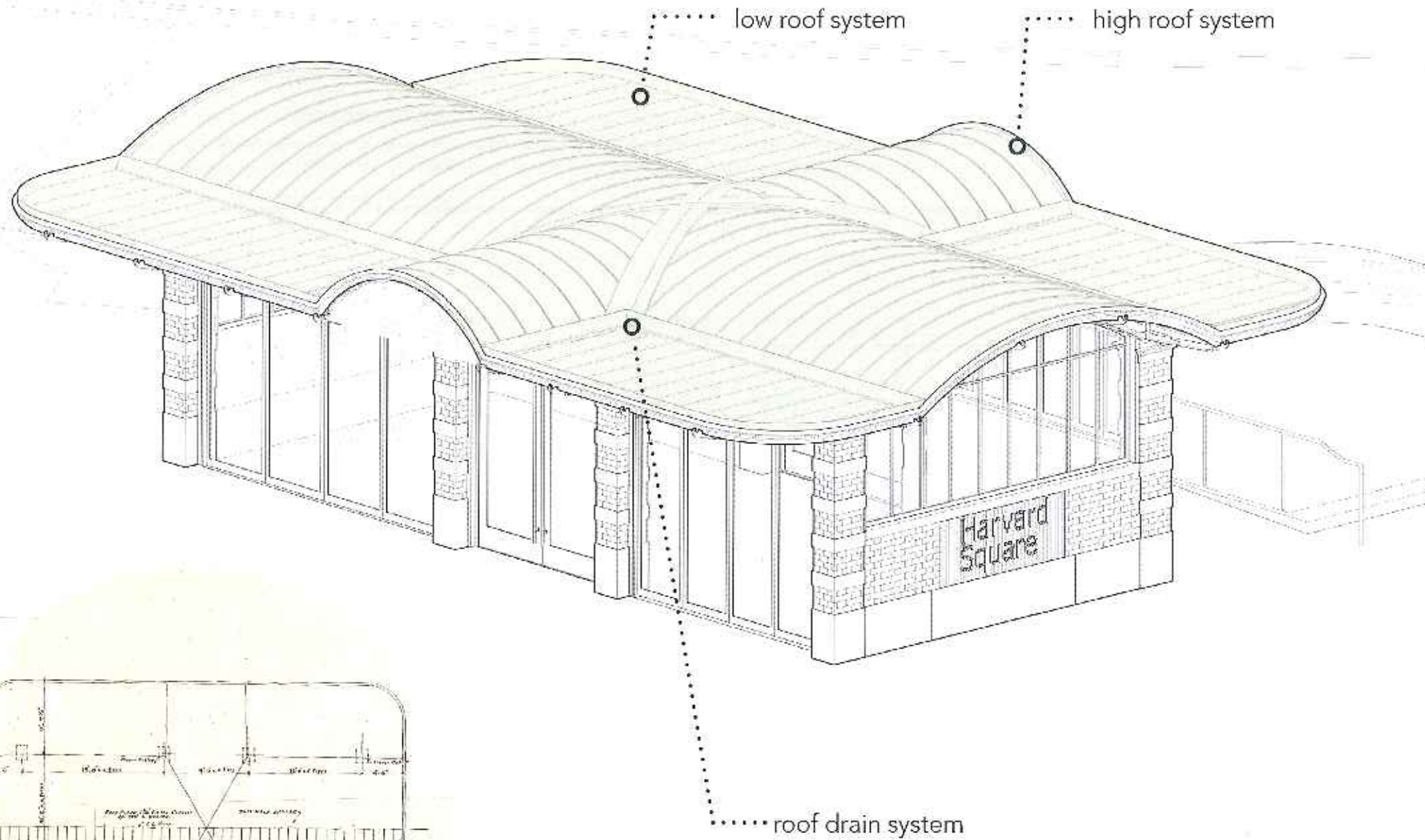


Proposed Steel Windows at the East Elevation



Preservation + Renovation Approach

Roof System



original drawings - roof plan



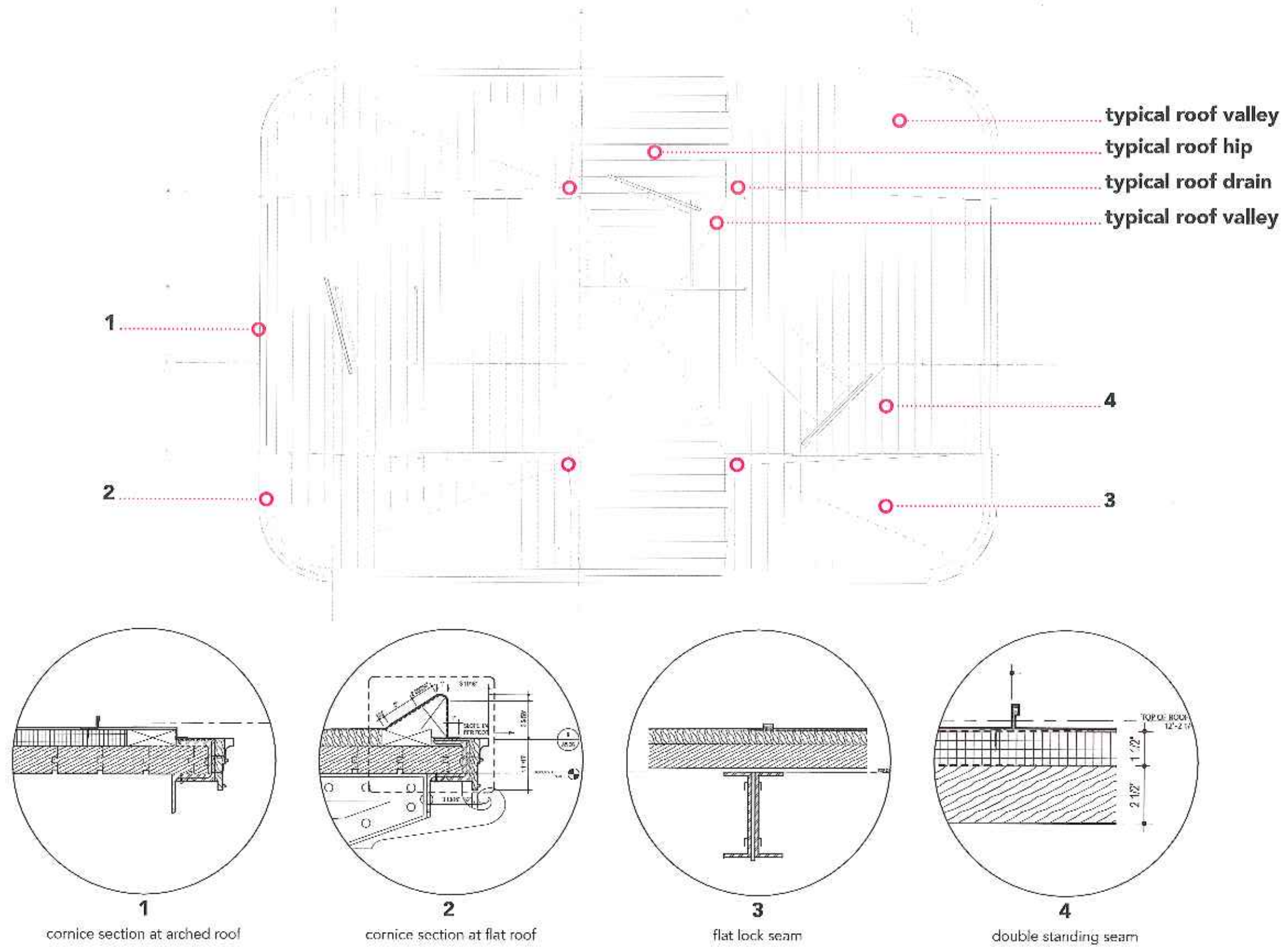
replacement of standing seam copper roof & allow for thermo dynamic movement.
all new copper will be red copper and let to weather
(photo credit: Second Forensic Roof System Evaluation by Fulmer Associates LLC)



replace wood sheathing & install new insulation between sheathing and copper roof
(photo credit: Second Forensic Roof System Evaluation by Fulmer Associates LLC)

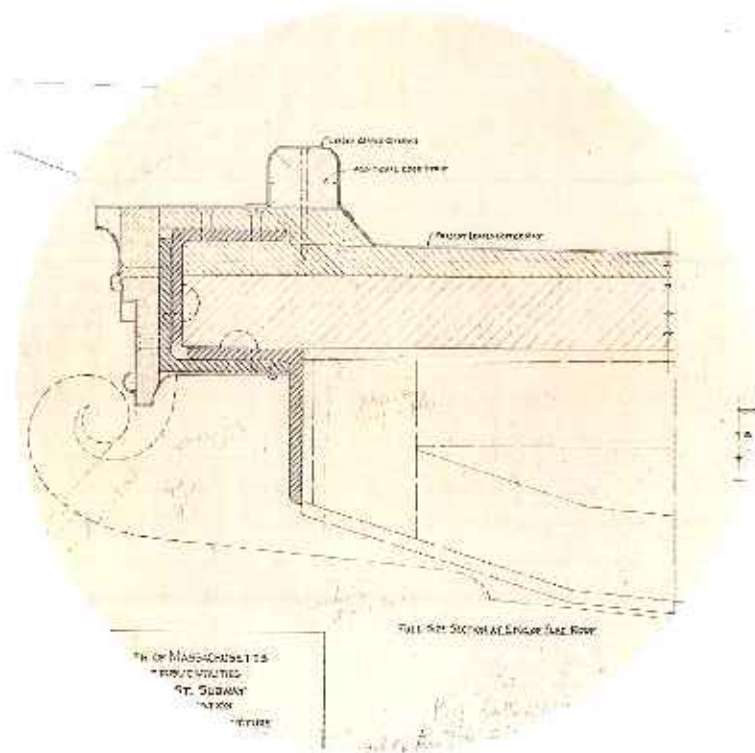
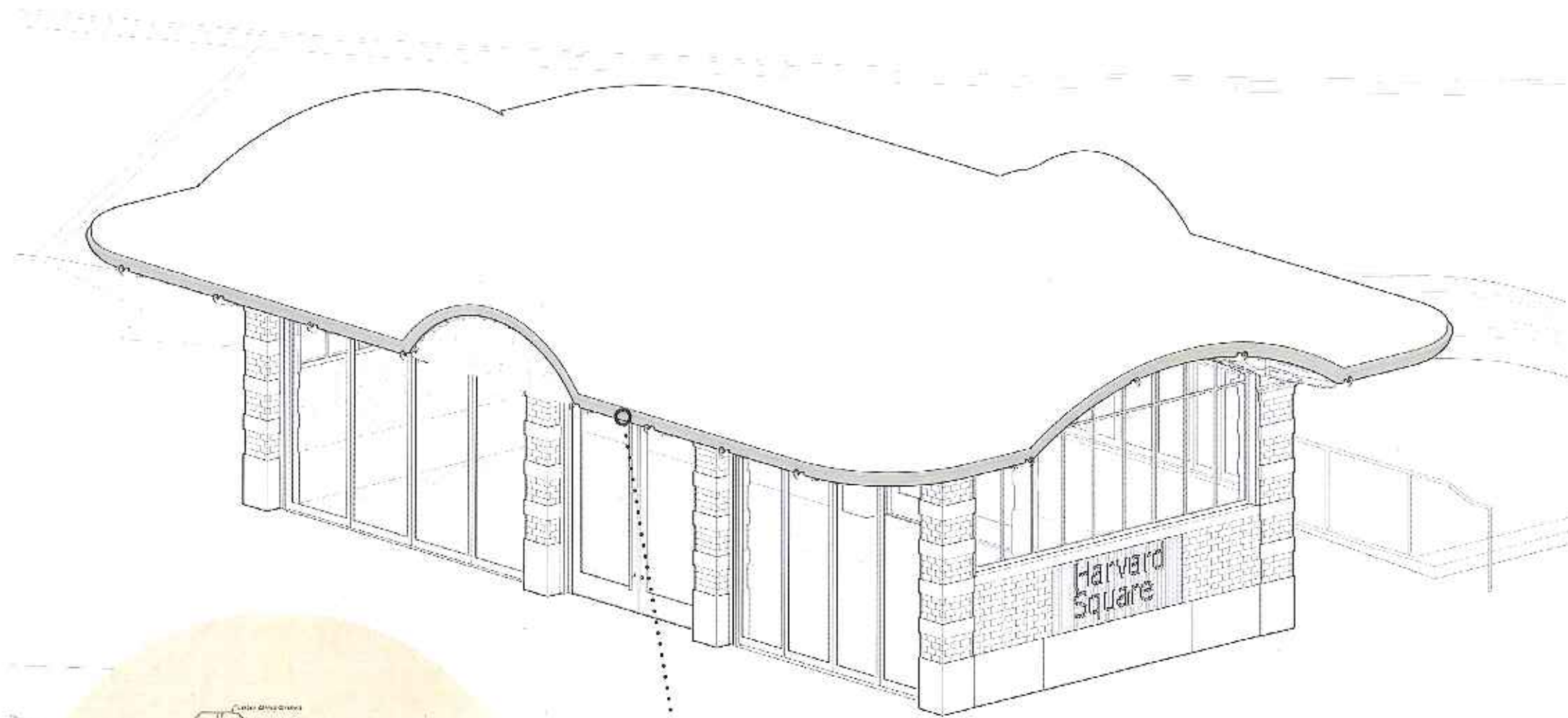
Preservation + Renovation Approach

Roof Details



Preservation + Renovation Approach

Perimeter Dentilled Fascia



original drawing - section at edge of flat roof
HARVARD SQUARE KIOSK - CAMBRIDGE, MASSACHUSETTS
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..... replace perimeter dentilled fascia



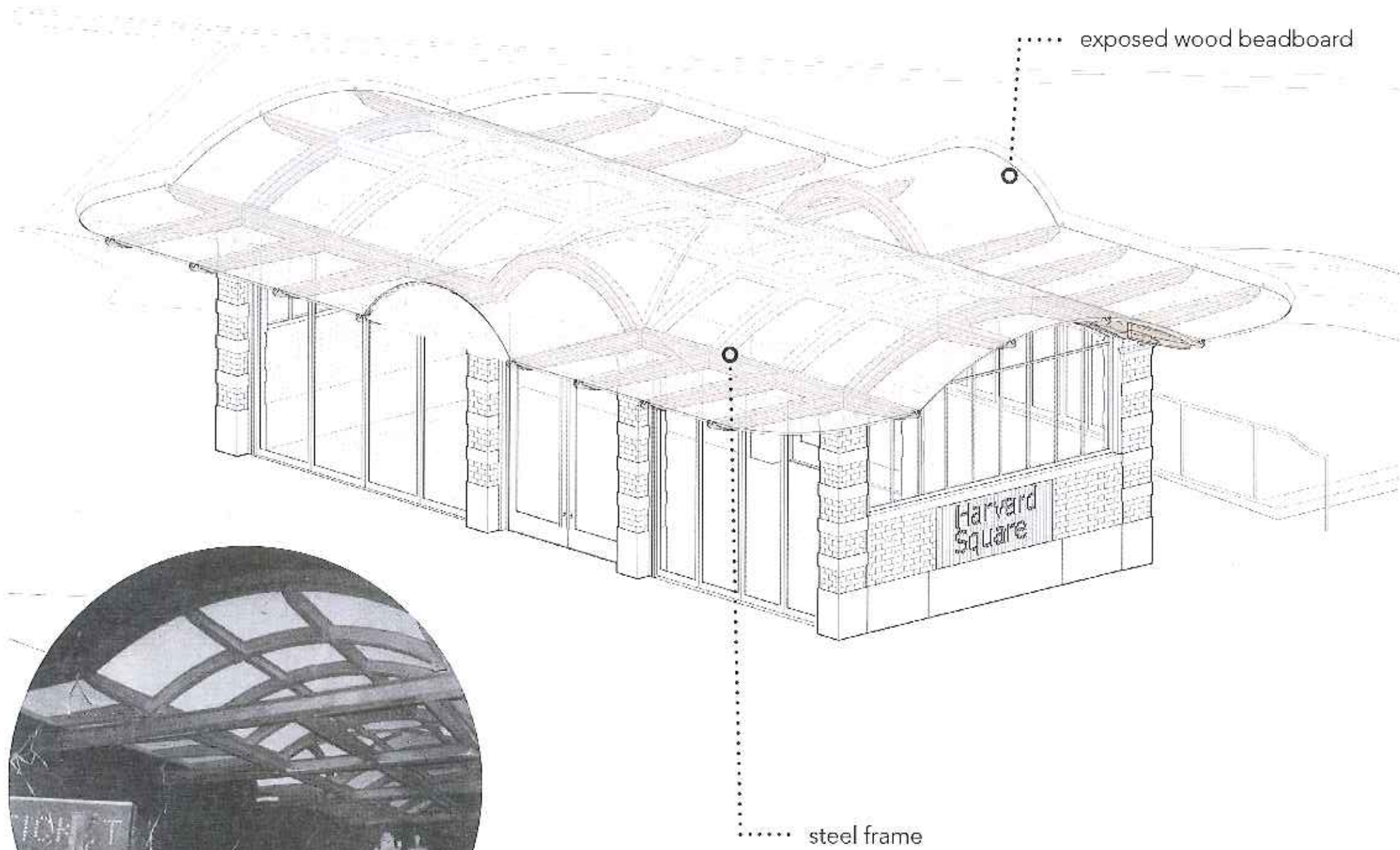
replacement of perimeter dentilled fascia to 1927 details
existing lead coated copper to be replaced with new red copper and let to weather



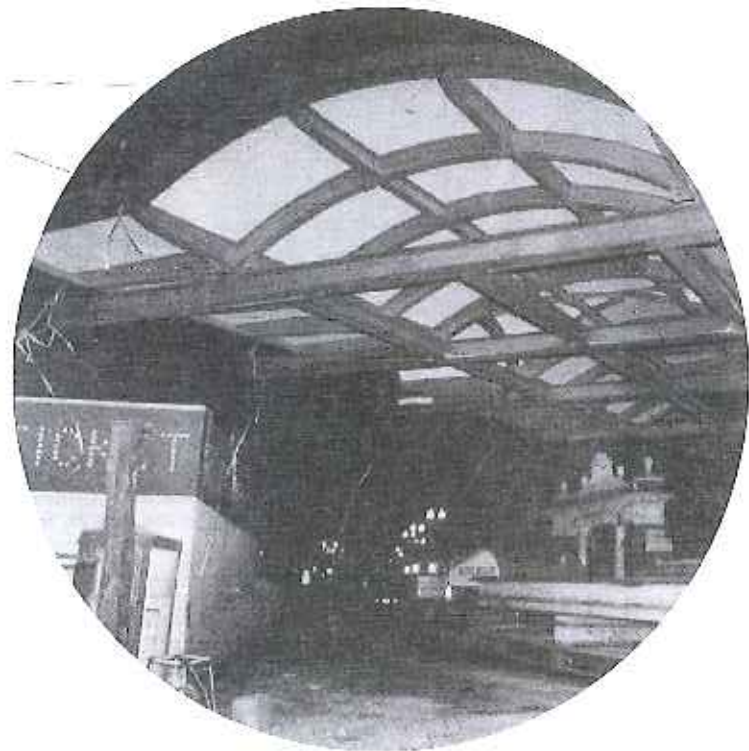
oxidization of the horizontal leg of the steel cornice angle
significant oxidization due to a dissimilar metals reaction and water infiltration

Preservation + Renovation Approach

Steel Exterior Structure & Wood Soffit



restoration / replacement of exposed beadboard



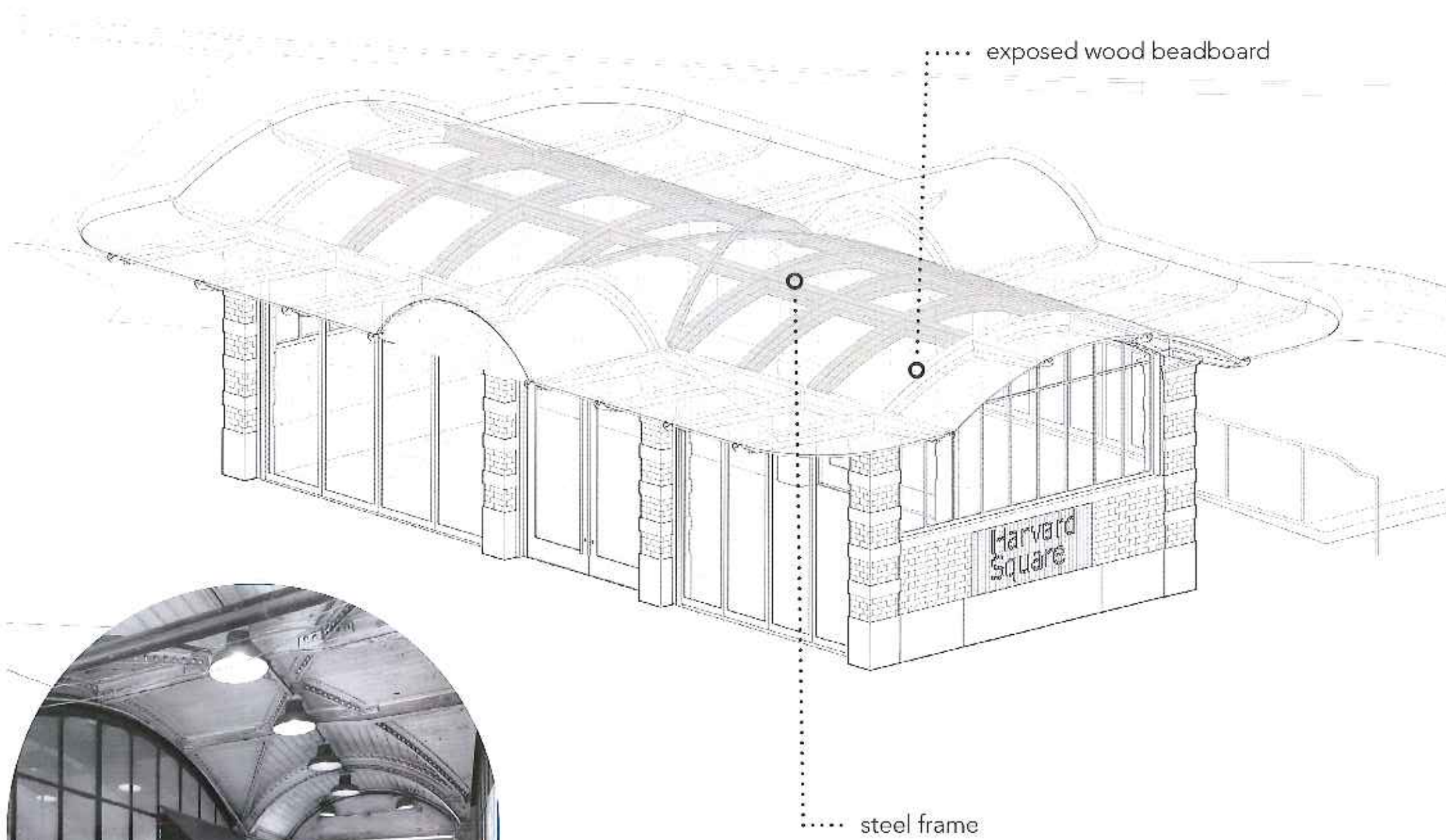
re-installation of original kiosk roof - 1983



clean structural members for removal of rust and paint, to be repainted in the historic color

Preservation + Renovation Approach

Interior Steel Structure and Wood Soffit



preserve exposed wood beadboard & riveted iron structure



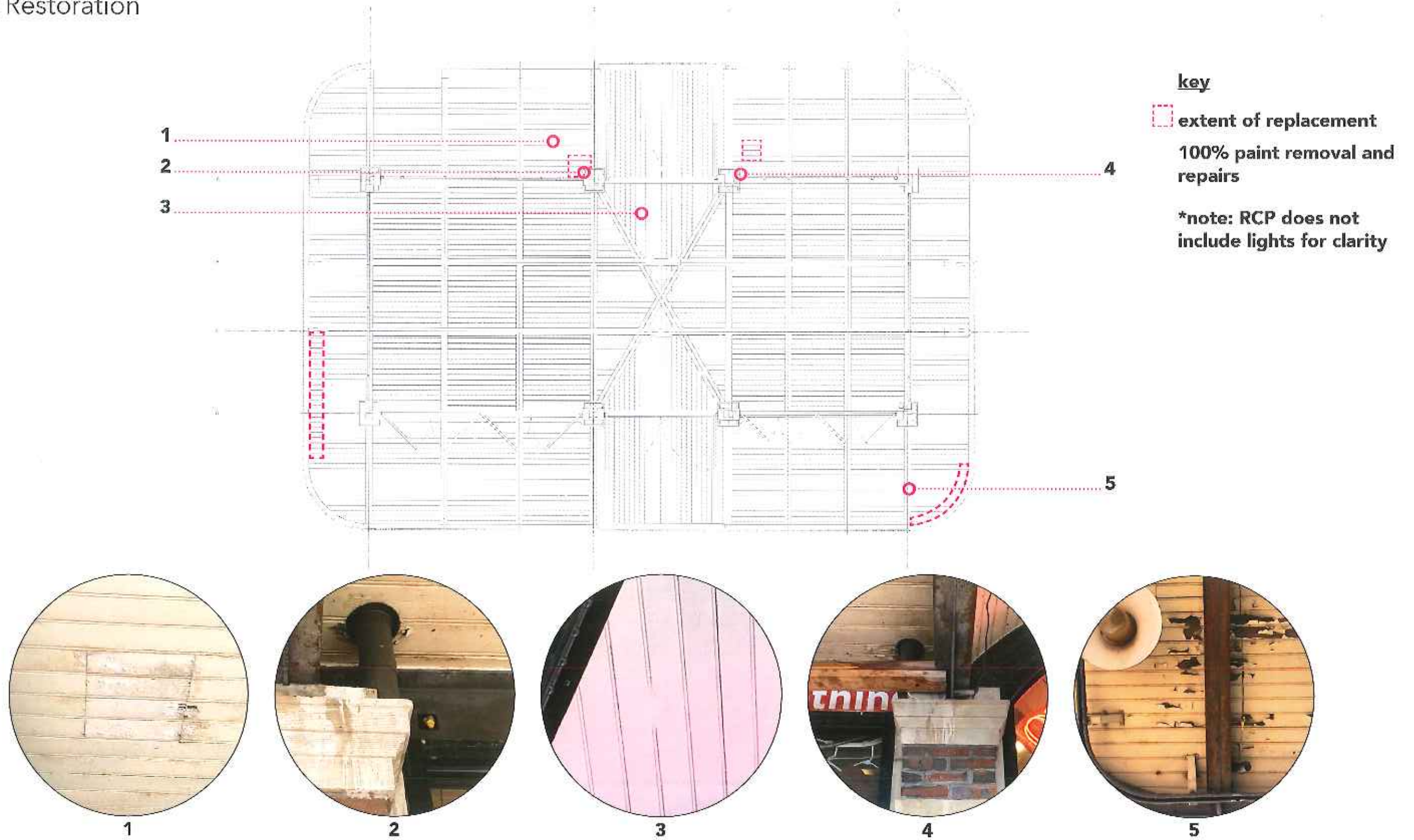
original breezeway - 1977



height of casework should not exceed the perimeter brick walls

Preservation + Renovation Approach

Wood Soffit Restoration



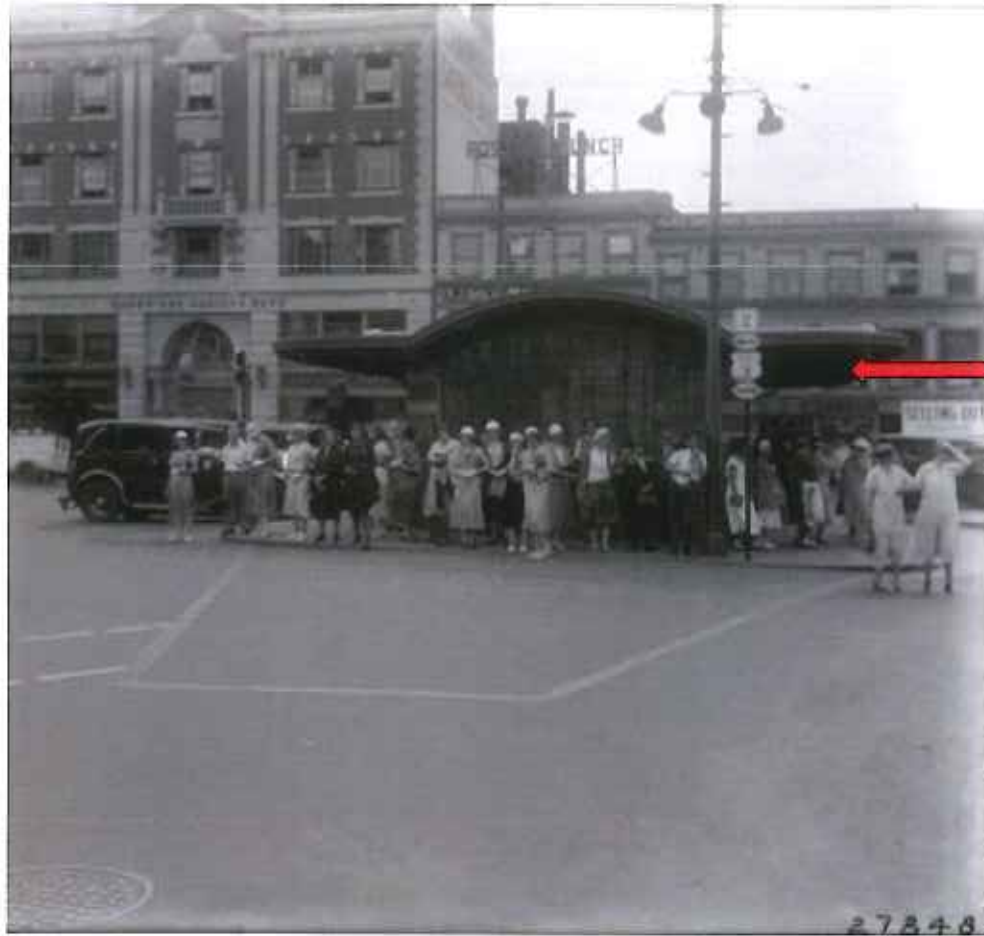
Preservation + Renovation Approach

Paint Analysis



Preservation + Renovation Approach

Paint Analysis + Lab Testing



original soffit - dark color



renovated soffit - light color



soffit today - dark steel, light soffit



wood ceiling cross section
photomicrograph
100x magnification



steel beam cross section
photomicrograph
200x magnification



steel structure paint
recomendation
Benjamin Moore
color preview 2128-10



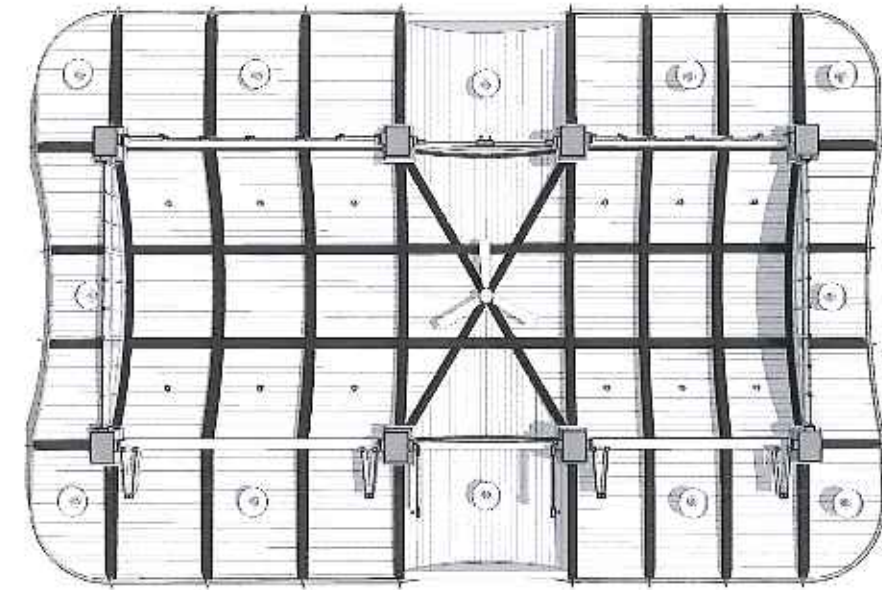
wood soffit paint
recomendation
Benjamin Moore
Navaho White - OC-95

Preservation + Renovation Approach

Proposed Design with Paint Colors



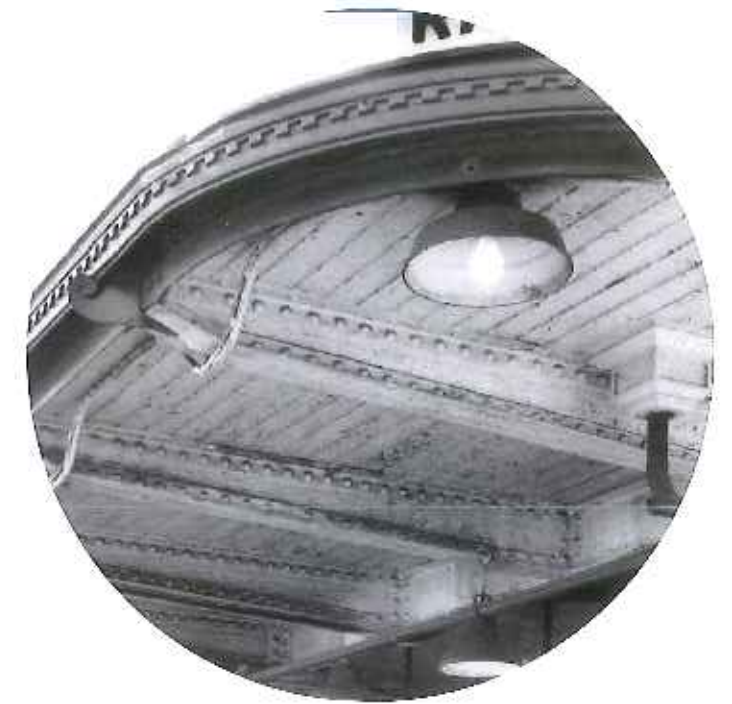
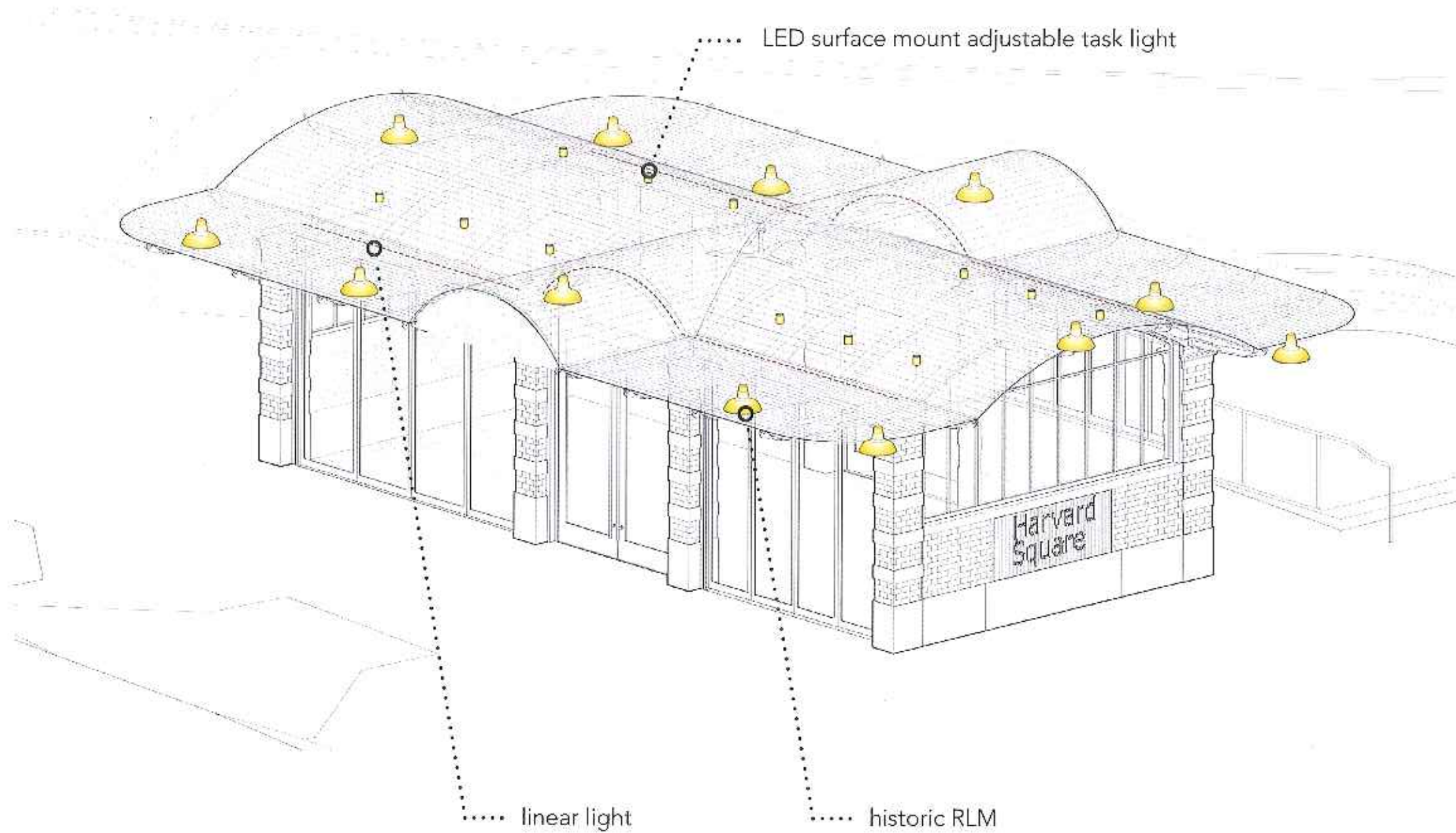
plaza renderings (Halvorson Design Partnership, Inc.)
HARVARD SQUARE KIOSK - CAMBRIDGE, MASSACHUSETTS
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Key Reflected Ceiling Plan

Preservation + Renovation Approach

Lighting Recommendations



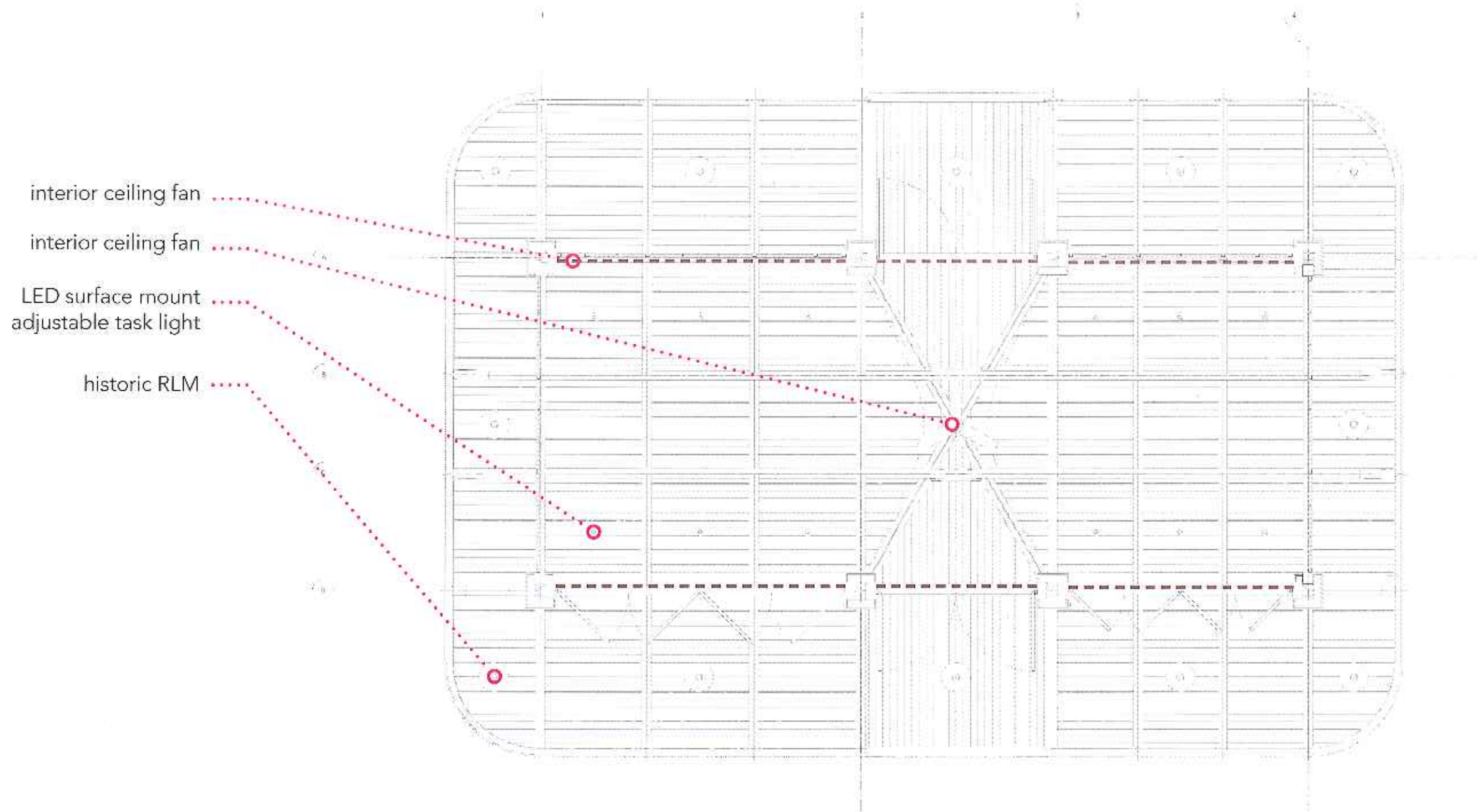
historic lighting - 1977
new conduit to be concealed
above wood deck



1977 RLMs surface mounted to junction box

Preservation + Renovation Approach

Lighting Recommendations



Preservation + Renovation Approach

Historic RLM Recommendation

ANP Lighting

Specifications SBW20

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____



Specifications

Material:
RLM shades are constructed of heavy duty spun aluminum. Wall back plate and driver housing are cast aluminum. All fasteners are stainless steel. Inside of shade is reflective white finish for all colors except galvanized paint finish. Screw hardware may not match paint.

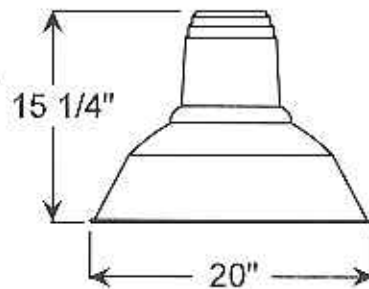
Electrical:
Universal voltage 120-277 is standard. 0-10V, TRIAC and ELV dimming protocols are standard. (24w is 0-10v only) See page 2 table for LED module and driver specs, voltage and dimming protocols.

Certifications:
Cord mounts are UL Listed for dry locations. Arm mount, stem mount and wall mount are UL Listed for wet locations.

Finish:
A polyester powder coat high quality finish is electro-statically applied and baked at 430° for exceptional durability and color retention. Products undergo an intensive five-step cleansing and pretreatment process for maximum paint adhesion.

Marine grade finish provides superior salt, humidity and UV protection. This coating withstands up to 3000 hours of continuous salt spray, comes with a 5-year warranty and is available in either a textured or gloss surface.

Modifications:
Consult factory for custom or modified designs.



Weight: 4 lbs

SBW20
LED

Catalog Logic



1 LIGHT SOURCE & WATTAGES	
GU24	(GU24 Socket Only; 120v only)
M012LD	(12w, 750 lumen, Cree module) Integral driver, 120V, dimming & narrow distribution only.
M009LD	(9w, 650 lumen, Cree module)
M010LD	(10w, 1250 lumen, Cree module)
M016LD	(16w, 2000 lumen, Cree module)
M024LD	(24w, 3000 lumen, Cree module)
M037LD	(37w, 4000 lumen, Cree module)

2 DIMMING	
D*	(Standard 0-10v, TRIAC and ELV dimming)
S	(Sunset dimming-10ms smoothly from 2700K to 1800K; 9w only)
*12w is dimming only, select "D".	
See page 2 for dimming protocols and limitations.	

3 DISTRIBUTION	
W	(T5 Wide Distribution with Dome LED Lens)
N	(T5 Narrow Distribution with Flat LED Lens)
*12w is narrow only, select "N".	

4 COLOR TEMPERATURE (CCT)	
27K	(2700K)
30K	(3000K) (Not Sunset Dim)
35K	(3500K) (Not Sunset Dim)
40K	(4000K) (Not Sunset Dim)

5 VOLTAGE	
UNV	(120-277)

6 MOUNTING SOURCES	
Arm Mounts (Cast back plate included (CR))	
E3 E4 E6 E7 E8 E9 E10 E11 E12	
E13 E18 E25	
Wall Mounts	
WM35	
WM41	
WM66	
WM318	
WM85	
Post Mounts (Posilene driver only; 4" D13, 125 pole required)	
PM10	
PM20	
PM30	
PM40	
PM60	
PM310	
Cord Mounts	
BLC-6W	(6' black cord with 1" x 5 3/8" canopy)
WHC-6W	(6' white cord with 1" x 5 3/8" canopy)
XXXX-DCC (Color Cord: Replace XXXX with color cord designation from page 4.)	
Note: Standard 5 3/8" canopy will be replaced with a driver ceiling canopy. (DCC)	
Stem Mounts	
1/2" (13/16" OD Rigid Stems with STC Flat Canopy)	
25T6 25T12 25T18 25T24 25T36 25T48	
25T60 25T72 25T96	
3/4" (1" OD Rigid Stems with STC Flat Canopy)	
35T6 35T12 35T18 35T24 35T36 35T48	
35T60 35T72 35T96	

7 ACCESSORIES	
CRB	(Cast back plate Spun Alum Cover)
*EMG-LED6	(5w, I-F-E Emergency Driver, remote placement, Cree module only)
*EMG-LED7	(7w, LED Emergency Driver, remote placement, Cree module only)
*EMG-LED10	(10w, I-F-E Emergency Driver, remote placement, Cree module only)
GR20	(20" Wire Grill)
PC	(Bullseye Photo Cell) Remote Only
SC	(Scroll for Arms)
SLC	(Slanted Ceiling Mount, 20" Max)
SQ	(Square Back Plate)
SWL	(Adjustable Locking Swivel)
TBK	(Turn Back Kit)
*For Emergency lumen output data, see Resources section at www.anplighting.com .	

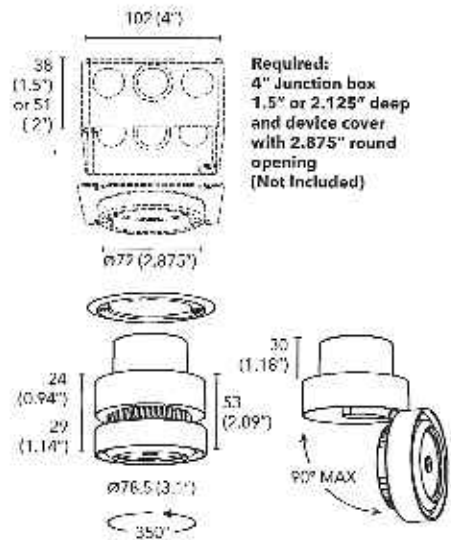
Preservation + Renovation Approach

Task Light Recommendation

50mm (2") LED Adjustable, Semi Recessed Mount- 120VAC

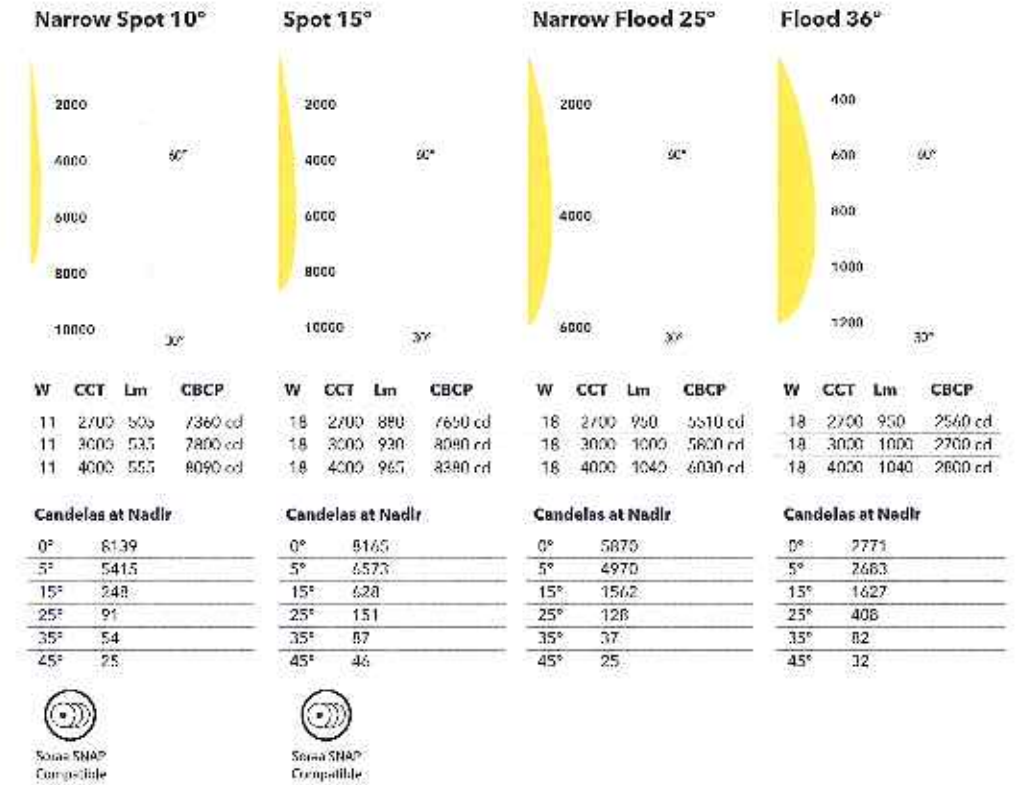
SORAA arc™

The Soraa Arc™ Adjustable combines elegant design with Soraa's unique quality of light to create a dynamic and versatile solution for retail, hospitality, and residential applications. Soraa Arc gets its name from the form of its unique die-cast curved heat sink, which is carefully engineered for optimal thermal performance. Soraa Arc is compatible with the Soraa SNAP System™, which allows you to shape beams, shift color, and more - in a snap.



Photometrics - Soraa Arc™ 50mm (2")

Data is shown for 3000K, for 2700K multiply FC by 0.95, for 4000K by 1.04.



Soraa VIVID™ LED
Soraa Full Spectrum Integral LED Light Engine available in 2700K, 3000K, and 4000K with 95 CRI and 95 R9. IR and UV free.

Soraa Optics
Soraa optic technology with exceptional beam control and smooth uniform light distribution. The 10° and 15° beam versions are compatible with Soraa SNAP accessories.

Construction and Finish
Light engine is made of die cast aluminium, transformer case from extruded aluminium. Durable satin finish. Custom colors available. Tilt: 0-90°, rotation: 350°.

Applications
Suitable for damp or dry locations. For interior use only.

Installation
Requires 4" junction box with 1.5" or 2.125" depth and device cover with 2.875" round opening (Not included). Semi-recessed mounting. Recommended ceiling opening: 3.375" (86mm).

Electrical
120VAC integrated electronic constant current LED driver (included). Frequency: 50/60Hz. Power Factor: 0.93. Wattage: 11W, 18W.

Dimming and Flicker
Dimmable to <1% Percent Flicker: < 30%. Triac and ELV dimming standard. Visit www.soraa.com for details.



Operating Temperature
Minimum -40°C, 25°C typical.

Accessories
Luminaire accommodates both Arc accessories and the Soraa SNAP System simultaneously.

Compliance
cULus Listed, Damp location rated. FCC CFR Title 47 Part 15 Class B compliant. NOM compliant.

Warranty
Five year warranty. See www.soraa.com.



Preservation + Renovation Approach

Linear Light Recommendation

FLEX DC® 30

Specification Sheet



FLEX DC® 30 is a high performance flexible LED fixture suitable for use in coves, under cabinets, in shelves, in-grade, and virtually anywhere a linear fixture is required.

ELECTRICAL

Input Voltage	24VDC
Dimming Options	<ul style="list-style-type: none"> • PURE DC™ • MIV • 0-10V • DMX • Lutron (2-WIRE, 3-WIRE, EcoSystem)
Power Consumption	3.0 Watts per foot
Wire Size	18AWG, 2 wire
Certification	ETL - Conforms to UL Std. 2108; Certified to CSA Std. C72.2 No. 9.0.

PHYSICAL

Field Cuttable	Every 1.9"
Operating Temperature	-40° C (-40°F) to +70° C (+158°F)
Environment	IP40 - Dry Location IP68 - Wet Location
Maximum Run Length	IP40: 32', IP68: 32'
Dimensions (WxH)	IP40 - 0.31" (8.0mm) x 0.12" (3.2mm) IP68 - 0.41" (10.4mm) x 0.18" (4.5mm) IP68 Endcaps - 0.50" (12.7mm) x 0.31" (7.87mm)

ACCESSORIES

Mounting Clips	FLXMMT.SILINI, FLXMMT.SIL.EXTI2 (pg. 8)
Channels	Optic Arts® Channel (pg. 3-7)
Connectors	LC-12P-M, LC-12P-F, LC-02P-F, LC-02P-M (pg. 8)
FLEXConfig-1 Accessories	FLXDC.PFC.02.08, FLXDC.BSC.02.08, LO-18G-2C-W-72, LP-18G-2C-W-72, LO-18G-2C-W-5P, LP-18G-2C-W-5P (pg. 9)

LUMEN OUTPUT

2000K (IP40 only)	174.44 lm/ft 62.41 lm/Watt
2400K	230.22 lm/ft 76.74 lm/Watt
2700K	262.59 lm/ft 87.53 lm/Watt
3000K	265.65 lm/ft 88.55 lm/Watt
3500K	276.03 lm/ft 92.01 lm/Watt
4100K	286.77 lm/ft 95.59 lm/Watt
6000K	272.94 lm/ft 90.98 lm/Watt
Amber	72.00 lm/ft 27.00 lm/Watt

Note: Stated lumen values have a tolerance of +/- 10%.

PERFORMANCE

CRI	90+
Lumen Maintenance	50,000 Hours
Binning Tolerance	1/- 100K
Warranty	5 years

PART NUMBER BUILDER

SERIES	+	IP RATING	+	COLOR	+	VOLTAGE	+	WATTAGE	+	CONFIGURATION	+	LENGTH
FLEXDC		40 - IP40 - Dry Location 68 - IP68 - Wet Location		20 - 2000K (IP40 only) 24 - 2400K 27 - 2700K 30 - 3000K 35 - 3500K 41 - 4100K		24 - 24 VDC		30 - 3.0W		FLC1 - FLEX Config 1 FLC2 - FLEX Config 2 FLC3 - FLEX Config 3		XX - Custom Length

1150 Monterey Park Rd, Monterey Park, CA 91754
213.250.6069 | customerservice@opticsarts.com | www.opticsarts.com

Optic Arts reserves the right to modify this specification without prior notice.
Last Modified: March 19, 2019 4:33 PM

1 of 10

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Preservation + Renovation Approach

Interior Ceiling Fan Recommendation

Haiku L by Big Ass Fans

TECHNICAL SPECIFICATIONS

Haiku's signature design elements, energy efficiency, and effectiveness at a more accessible price point.

THE CEILING FAN, REINVENTED

- **Airfoils** — Hybrid resin construction; 52 in. (1.3 m) fan sweep
- **Mounting** — Flat or sloped ceilings 8 ft (2.4 m) and taller
- **Integrated LED Light** — Settings include on/off, Sleep mode, and 16 dimmable light levels; life expectancy of 50,000 hours
- **Fan Settings** — On/Off, Whoosh* mode, Sleep mode, and timer
- **Motor** — High-efficiency, brushless DC motor with digital inverter drive
- **Environment** — Indoor use only
- **Sound Level** — <35 dBA at max speed¹
- **Controls** — Handheld remote control, Haiku L Wall Control (optional), voice control² (with addition of Wi-Fi module), or 0–10 V Module (optional)
- **Accessories** — Haiku L Wall Control and Wi-Fi module
- **Warranty** — Visit the [Big Ass Fans website](#) for details.



Black Finish with Smoky Lens

Airfoil Finishes



ORDERING INFORMATION

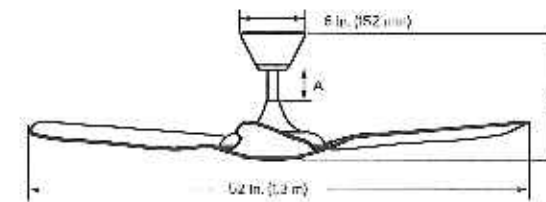
DIAMETER	INPUT POWER	AIRFOIL AND MOTOR FINISH	COUNTRY	MOTOR
L3127				00E
52: L3127	120 V: X5 240 V: X6	Hybrid Resin, Black: PB Hybrid Resin, White: PW	US/CA/MX: 00 Europe: 01 Saudi Arabia, UAE: 03	L52: 00E

FAN SPECIFICATIONS

VOLTAGE	WEIGHT	MAX SPEED	AIRFLOW (MIN/MAX)	FAN WATTS
100–120 VAC, 1Φ, 50/60 Hz	11 lb (5 kg)	181 RPM	1.6/5/ 5,604 cfm	3.1/18.9 W

LIGHT SPECIFICATIONS

LIGHT WATTS	LIGHT OUTPUT	COLOR TEMP	CRI
20 W	988 Lumens	2700 K	82



Extension** Tube (A)	Extension Tube Lengths				
	Included		Optional*		
	6 in. (147.5 mm)	12 in. (289.5 mm)	23 in. (574.5 mm)	36 in. (897.5 mm)	52 in. (1304.5 mm)
Fan Height (B)	11.4 in. (289 mm)	16.4 in. (417 mm)	28.4 in. (721 mm)	41.1 in. (1044 mm)	57.1 in. (1451 mm)
Ceiling Height	≥ 6 ft (≥ 2.4 m)	≥ 9 ft (≥ 2.7 m)	≥ 10 ft (≥ 3 m)	≥ 11 ft (≥ 3.4 m)	≥ 13 ft (≥ 4 m)

* Optional extension tube lengths packaged separately.
** Lengths in inches are rounded to the nearest whole number.

¹ Actual results of sound measurements in the field may vary due to sound reflective surfaces and environmental conditions.
² Voice control requires an Amazon Alexa-enabled device or the Google Assistant.

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USA
BIGASSFANS.COM
800-698-2458

CANADA
BIGASSFANS.COM
944-924-8277

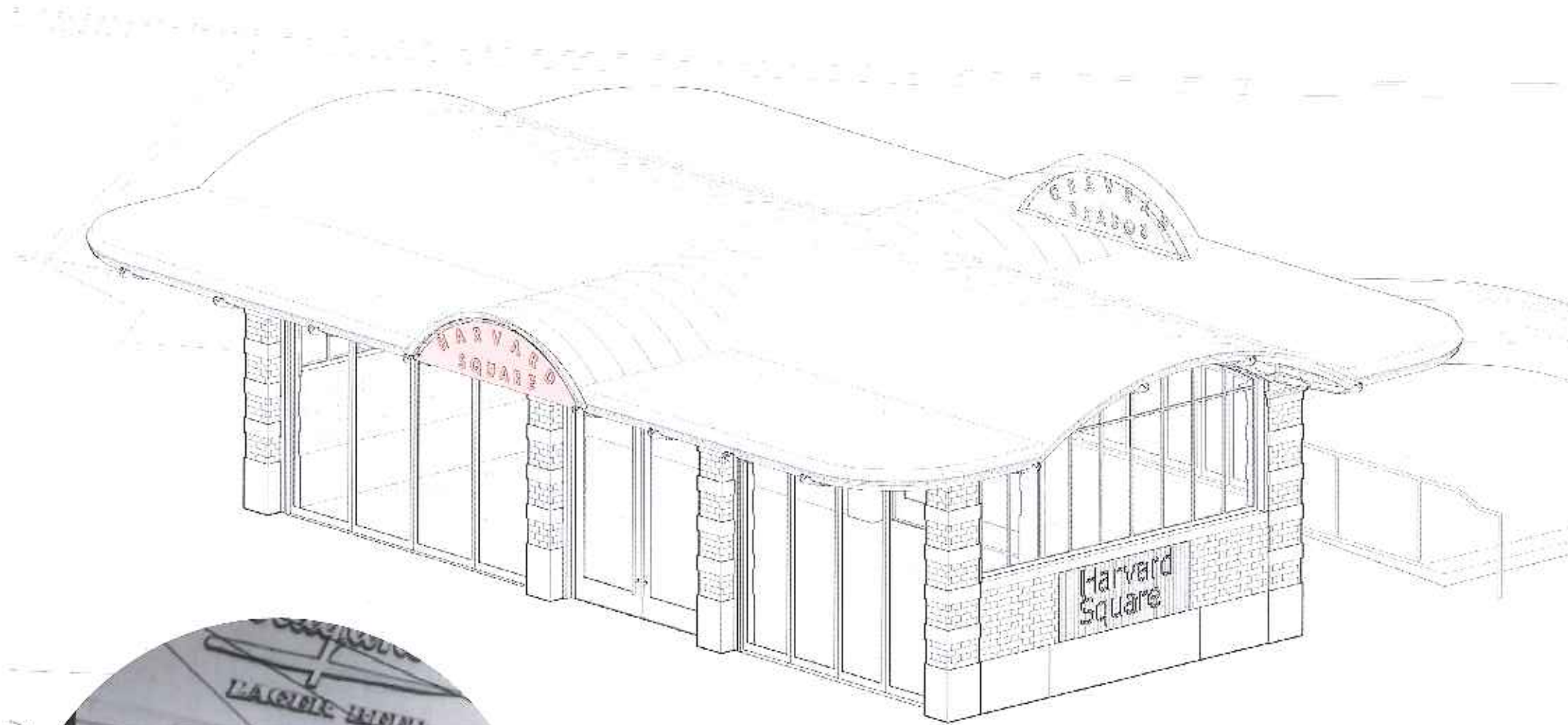
AUSTRALIA
BIGASSFANS.COM/AU
1300 244 277

SINGAPORE
BIGASSFANS.COM/SG
65 6709 8500

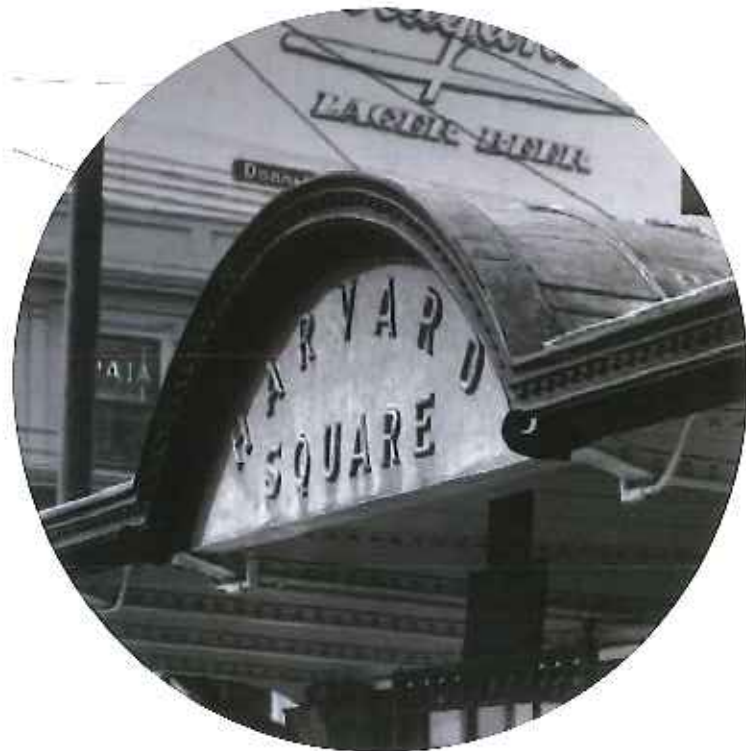
MALAYSIA
BIGASSFANS.COM/SG
+603 5565 0988

Preservation + Renovation Approach

Exterior Arched Thermoformed Signage



the back-lit semi circular signs should be restored with vacuum formed translucent red letters matching the originals.



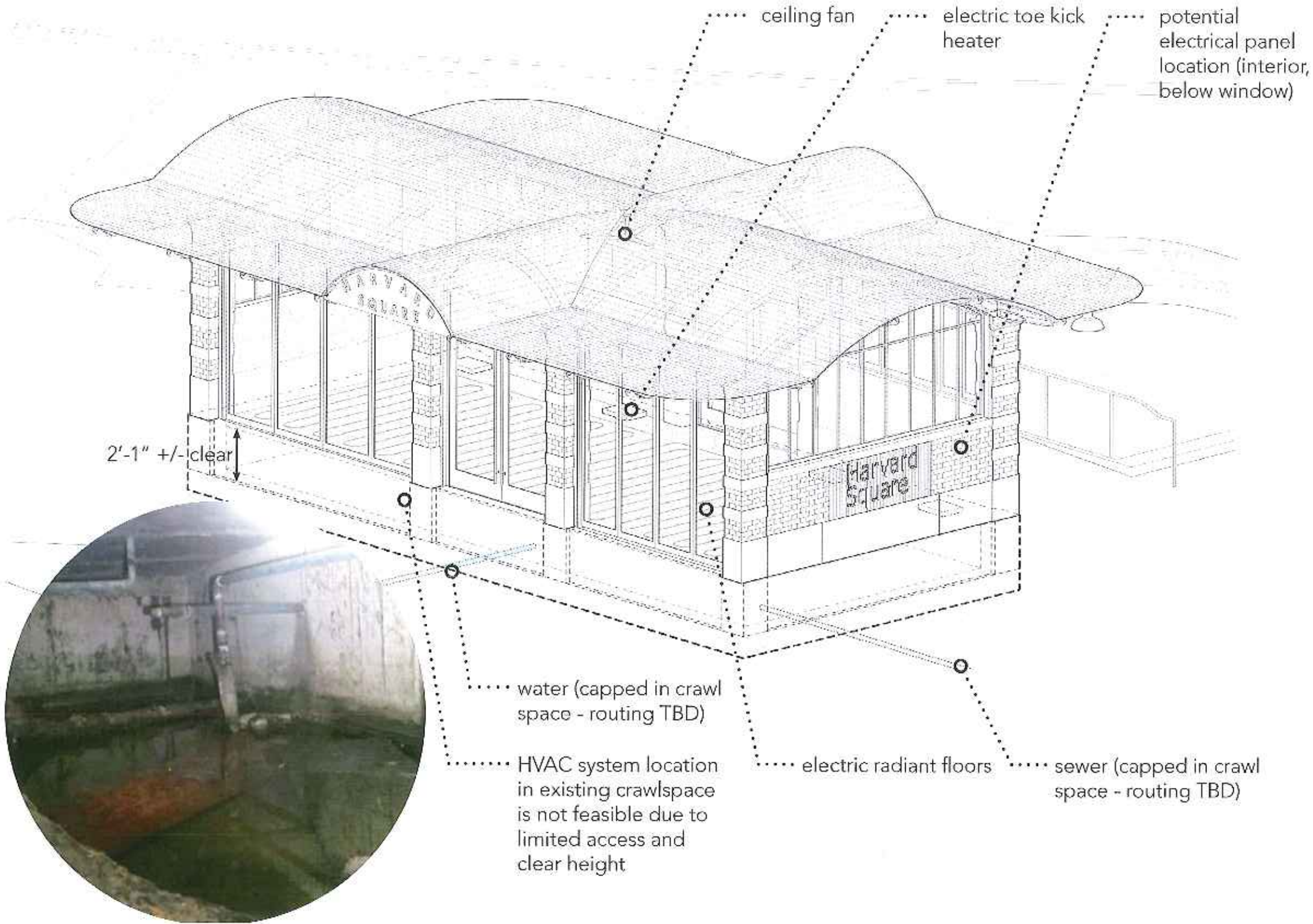
original signage - 1950's



removal of all commercial advertising and clutter not original to the 1928 kiosk design.

Preservation + Renovation Approach

Utilities - Electric, Heat, Ventilation & Water / Sewer



vents along south elevation



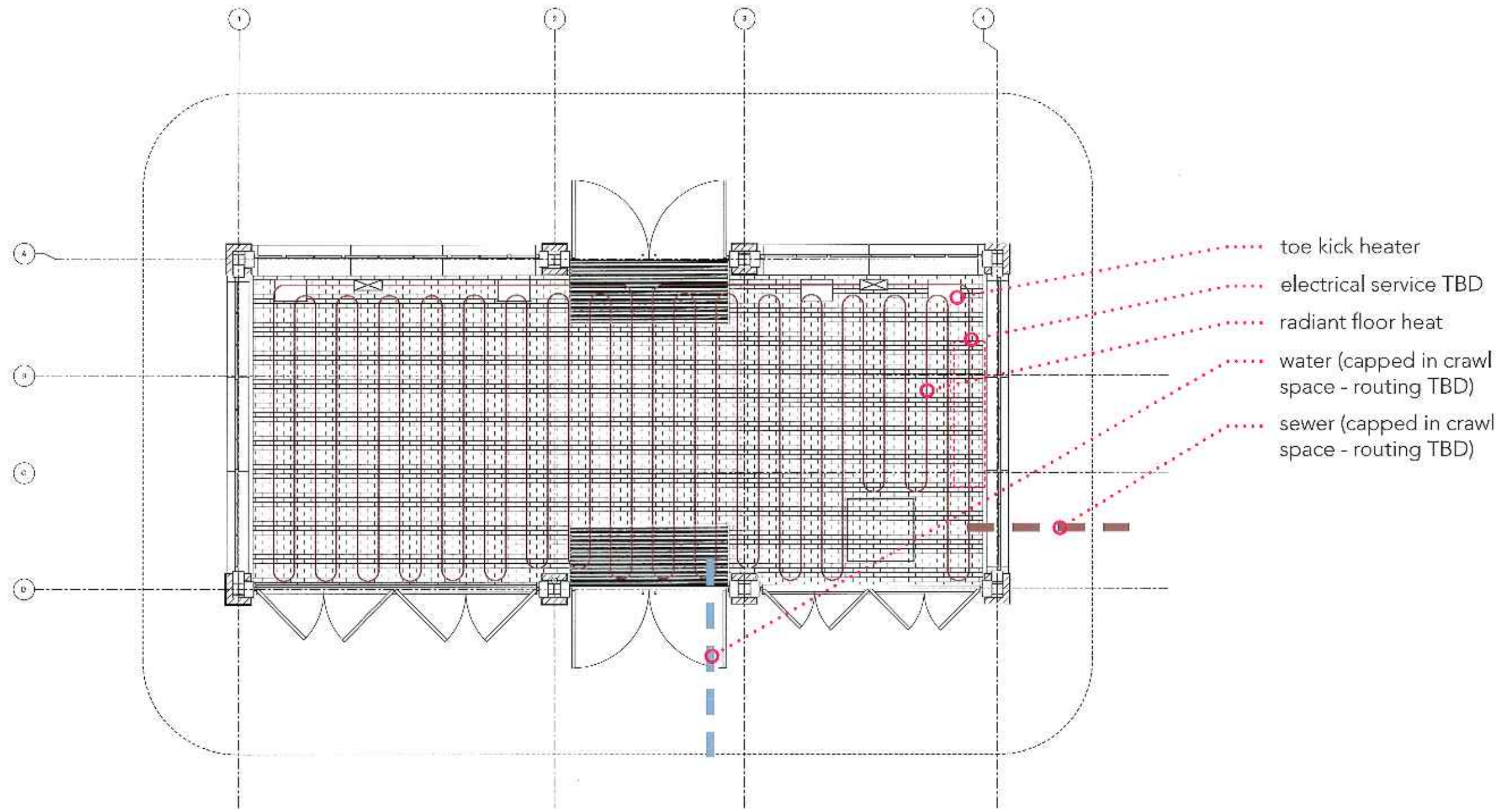
existing crawlspace



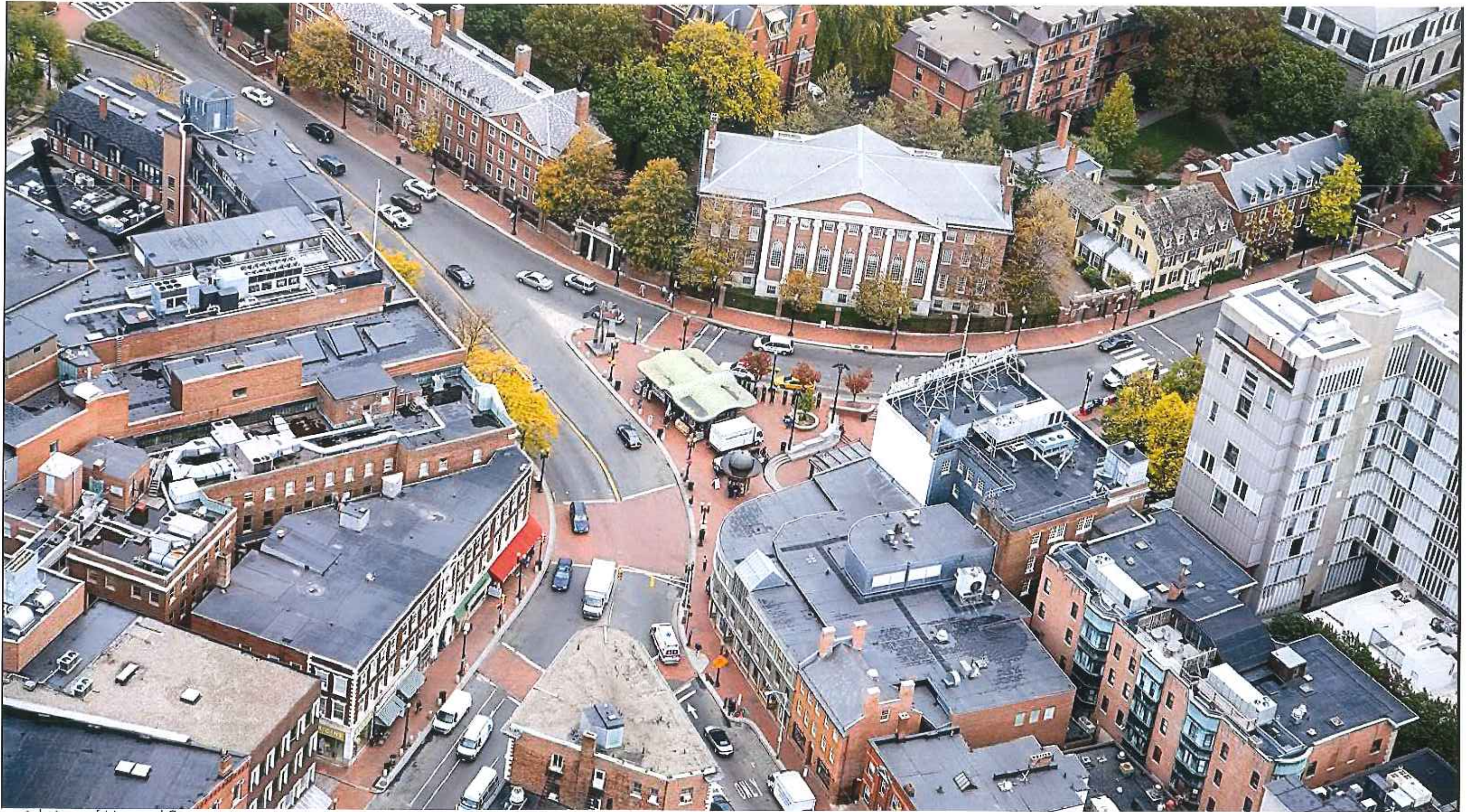
removal of all interior & exterior heating and cooling units for redesign of systems for greater efficiency

Preservation + Renovation Approach

Utilities - Electric, Heat, Ventilation & Water / Sewer



Kiosk and Plaza Relationships



aerial view of Harvard Square

HARVARD SQUARE KIOSK - CAMBRIDGE, MASSACHUSETTS
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Character of the Place

