

ANN ARBOR HISTORIC DISTRICT COMMISSION**Staff Report****ADDRESS:** 613-619 E William Street and 342 S State, Application Number HDC19-168**DISTRICT:** State Street Historic District**REPORT DATE:** September 12, 2019**REPORT PREPARED BY:** Jill Thacher, Historic Preservation Coordinator**REVIEW COMMITTEE DATE:** Monday, September 9, 2019

	OWNER	APPLICANT
Name:	West Second Street Associates	OX Studio, Inc
Address:	503 S Saginaw St, Suite 600 Flint, MI 48502	2373 Oak Valley Dr, Suite 180 Ann Arbor, MI 48103
Phone:	(810) 239-1551 x312	(734) 828-1856

BACKGROUND: This two-story commercial block features metal siding over brick construction, with a tin cornice and tin detailing. The bay at 619 was built first, in 1892, and the first occupant was Lewis Stevens barber and baths. Vertical tin siding is visible on the second floor. The diamonds above the window also appear to be older and more substantial than the ones on the other storefronts to the west. 613-617* was built in 1899 and the original occupant was shoemaker Eugene Lambert. The three-story building to the east at 342 S State was built in 1905. Current occupants of 613-619 are Tianchu Restaurant and Pita Kabob Grill.

*Please note that there is a discrepancy in the building addresses of the Downtown Survey, which groups 613 and 617 as one building and 619 as another. Physical and photographic evidence suggests 613 was added later to the 617-619 building.

The current storefronts on the first floor are entirely non-original, with the exception of the cornice band detailing above the storefront windows of 619, and one original iron column.

LOCATION: The building is located on the north side of East William Street, one building west of South State.

APPLICATION: The applicant seeks HDC approval to install new storefronts along the extent of the two-story building and replace a side door facing E William on 342 S State, in the existing opening.

APPLICABLE REGULATIONS:**From the Secretary of the Interior's Standards for Rehabilitation:**

- (1) A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.

- (2) The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.
- (9) New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

From the Secretary of the Interior's Guidelines for Rehabilitating Historic Buildings (other SOI Guidelines may also apply):

Storefronts

Recommended: Designing and constructing a new storefront when the historic storefront is completely missing. It may be an accurate restoration using historical, pictorial, and physical documentation; or be a new design that is compatible with the size, scale, material, and color of the historic building.

Not Recommended: Introducing a new design that is incompatible in size, scale, material, and color.

Building Site

Not Recommended: Removing or radically changing buildings and their features or site features which are important in defining the overall historic character of the property so that, as a result, the character is diminished.

Windows

Recommended: Designing and installing new windows when the historic windows (frames, sash and glazing) are completely missing. The replacement windows may be an accurate restoration using historical, pictorial, and physical documentation; or be a new design that is compatible with the window openings and the historic character of the building.

Not Recommended: Introducing a new design that is incompatible with the historic character of the building.

From the Ann Arbor Historic District Design Guidelines:

Design Guidelines for Storefronts

Appropriate: Designing and constructing a new storefront when the historic storefront is completely missing. It may be an accurate restoration using historical, pictorial, and physical documentation; or may be a new design that is compatible with the size, scale, and material of the historic building. New designs should be flush with the façade and be kept as simple as possible.

Not Appropriate: Installing a new storefront that is incompatible in size and material with the historic building and district.

Signs

Appropriate: Installing signage in the historic sign band area of the building, typically the area above the transoms or just above the storefront.

Installing signage that is compatible in size, style, material, and appearance to the historic resource and district.

Placing signs to align with others along the commercial block face.

Installing signage that is subordinate to the overall building composition.

Windows

Appropriate: If a window is completely missing, replacing it with a new window based on accurate documentation of the original or a new design compatible with the original opening and the historic character of the building. Materials other than wood will be reviewed by the Commission on a case-by-case basis.

STAFF FINDINGS:

1. The storefront in 619 was approved by the HDC in 2001. The original design, with a recessed double entry in the center of 617 and 619, is not reproduceable because of interior changes to the original layout. The proposed storefronts carry the first floor cornice trim from 619 through 617, and retain the basic proportions and large pieces of glass seen in photographs from the 1940s. The cornice on 613 is simplified, since historic documentation of what it originally looked like does not exist. The element most obviously missing is the transom window originally found on 617-619.
2. A sign band is being shown where the transoms would historically go above the new storefronts. Signage is shown on the plans and staff asks that the applicant submit dimensions of those sign areas (three wall signs and three pedestrian scaled bracket signs). If approved by the HDC, this will allow staff to approve future signage that does not exceed those dimensions, in the same locations. Any other signage must be approved by the HDC instead of staff.
3. The signs show gooseneck lighting with a 12 5/8" diameter shade. The HDC's policy has been to not allow new gooseneck lights, and staff can only recall one in recent history (an exception was made for Salads Up). The fixtures proposed here are more modern than a traditional barn light, but staff's opinion is that they are still goosenecks. Elevation drawings A101-102 show two goosenecks per each of the three signs, plus one on the westernmost pedestrian scale sign. The color images are inconsistent in the number and placement of lights, but staff defaults to what is shown on the elevations. Since there are streetlights in front of 619 and 611 E William (across the alley to the west), staff has concerns that the lights will be overkill. If the HDC believes the fixtures are appropriate, the suggested motion is conditioned on limiting the lighting to two fixtures on the signs at 613 and 619, one on 617, and none on the two bracket signs.
4. Despite some smallish concerns, staff finds that the redesign of the storefront is a vast improvement over the existing mishmash and is generally appropriate and meets

the Secretary of the Interior's Standards and Guidelines, and the Ann Arbor Historic District Design Guidelines.

POSSIBLE MOTIONS: (Note that the motion is only a suggestion. The Review Committee, consisting of staff and at least two Commissioners, will meet with the applicant on site and then make a recommendation at the meeting.)

I move that the Commission issue a certificate of appropriateness for the application at 613-619 E William Street, a contributing property in the East William Historic District to install new storefronts along the extent of the two-story building, and replace a side door facing East William Street on 342 S State, in the existing opening, on the following condition: that sign lighting is limited to: two fixtures on the signs on 613 and 619, one on 617, and none on the two bracket signs. The work as conditioned is compatible in exterior design, arrangement, texture, material and relationship to the rest of the building and the surrounding area and meets the *Ann Arbor Historic District Design Guidelines* for storefronts, windows, and signs, and *The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings*, in particular standards 1, 2, and 9 and the guidelines for storefronts, windows, and building site.

MOTION WORKSHEET:

I move that the Commission issue a Certificate of Appropriateness for the work at 309 S. Main Street in the Main Street Historic District

_____ Provided the following condition(S) is (ARE) met: 1) STATE CONDITION(s)

The work is generally compatible with the size, scale, massing, and materials and meets the Secretary of the Interior's Standards for Rehabilitation, standard(S) number(S) (*circle all that apply*): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

ATTACHMENTS: Application, photos, drawings

Photos

617 and 619 E William, 1946 (courtesy AADL Old News)



617-619 E William, Varsity Barbershop picket, 1947 (courtesy AADL Old News)



613 E William, 1973 (courtesy AADL Old News)



613-617-619 E William, 1974 (courtesy AADL Old News)



617- 619 E William, 1979 (courtesy AADL Old News)





HISTORIC DISTRICT COMMISSION

PLANNING AND DEVELOPMENT SERVICES

City Hall: 301 E. Huron St. Ann Arbor, MI 48104-6120

Mailing: P.O. Box 8647, Ann Arbor, MI 48107-8647

Phone: 734.794.6265 ext. 42608

jthacher@a2gov.org

Fax: 734.994.8460

OFFICE USE ONLY	
Permit Number	HDC# _____
	BLDG# _____
DATE STAMP	

APPLICATION MUST BE FILLED OUT COMPLETELY

PROPERTY LOCATION/OWNER INFORMATION

NAME OF PROPERTY OWNER West Second Street Associates, Troy Farah		HISTORIC DISTRICT State Street
PROPERTY ADDRESS 613-619 Williams		CITY ANN ARBOR
ZIPCODE 48104	DAYTIME PHONE NUMBER 810-239-1551 X312	EMAIL ADDRESS tfarah@wssallc.com
PROPERTY OWNER'S ADDRESS (IF DIFFERENT FROM ABOVE) 503 S Saginaw St. Suite 600		CITY Flint
		STATE, ZIP 48502

PROPERTY OWNER'S SIGNATURE

SIGN HERE	PRINT NAME → Troy FARAH	DATE → 8/22/19
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APPLICANT INFORMATION

NAME OF APPLICANT (IF DIFFERENT FROM ABOVE) OX Studio, Inc., Anna Epperson			
ADDRESS OF APPLICANT 2373 Oak Valley Dr. Suite 180			CITY Ann Arbor
STATE MI	ZIPCODE 48103	PHONE / CELL # (734) 828-1856	FAX No ()
EMAIL ADDRESS anna@oxstudioinc.com			

APPLICANT'S SIGNATURE (if different from Property Owner)

SIGN HERE	PRINT NAME → x Anna Epperson	DATE → 08/22/2019
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BUILDING USE – CHECK ALL THAT APPLY

<input type="checkbox"/> SINGLE FAMILY	<input type="checkbox"/> DUPLEX	<input type="checkbox"/> RENTAL	<input type="checkbox"/> MULTIPLE FAMILY	<input checked="" type="checkbox"/> COMMERCIAL	<input type="checkbox"/> INSTITUTIONAL
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PROPOSED WORK

Describe in detail each proposed exterior alteration, improvement and/or repair (use additional paper, if necessary).

See attached

DESCRIBE CONDITIONS THAT JUSTIFY THE PROPOSED CHANGES:

See attached

For Further Assistance With Required Attachments, please visit www.a2gov.org/hdc



HISTORIC DISTRICT COMMISSION APPLICATION

FEE CHART

DESCRIPTION	
STAFF REVIEW FEES	FEE
Application for Staff Approval	\$35.00
Work started without approvals	Additional \$50.00
HISTORIC DISTRICT COMMISSION FEES	
All other proposed work not listed below	\$100.00
Work started without approvals	Additional \$250.00
RESIDENTIAL – Single and 2-story Structure	
Addition: single story	\$300.00
Addition: taller than single story	\$550.00
New Structure - Accessory	\$100.00
New Structure – Principal	\$850.00
Replacement of single and 2-family window(s)	\$100 + \$25/window
COMMERCIAL – includes multi-family (3 or more unit) structures	
Additions	\$700.00
Replacement of multi-family and commercial window (s)	\$100 + \$50/window
Replacement of commercial storefront	\$250.00
DEMOLITION and RELOCATION	
Demolition of a contributing structure	\$1000.0
Demolition of a non-contributing structure	\$250.00
Relocation of a contributing structure	\$750.00
Relocation of a non-contributing structure	\$250.00

FOR COMMISSION REVIEWS:

- Application withdrawals made before public notice is published will qualify for a 50% refund of the application fee.
- Application withdrawals made after public notice is sent but before the public hearing will qualify for a 25% refund of the application fee.

INSTRUCTIONS FOR SUBMITTING APPLICATIONS

All HDC applications must be signed by the property owner and the applicant, if different, with the exception of staff approvals, which may be signed by only the applicant.

All completed HDC applications and their attachments may be submitted to Planning and Development Services by mail, in person (paper or digital), faxed, or via email to building@a2gov.org.

We accept CASH, CHECK, and all major credit cards. Checks should be made payable to "City of Ann Arbor"

HDC applications that are incomplete or not submitted with the required documentation or payment will not be processed or approved.

APPLICATION EXPIRATION

HDC applications expire three (3) years after the date of approval.

OFFICE USE ONLY

Date of Hearing:		
Action	<input type="checkbox"/> HDC COA	<input type="checkbox"/> HDC Denial
	<input type="checkbox"/> HDC NTP	<input type="checkbox"/> Staff COA
Staff Signature		
Comments		
Fee:	\$ _____	
Payment Type	<input type="checkbox"/> Check: # _____ <input type="checkbox"/> Cash <input type="checkbox"/> Credit Card	

August 23, 2019

Ann Arbor Historic District Commission
Planning and Development Services
301 E. Huron St.
Ann Arbor, MI 48104



RE: State & William Historic Façade Improvements, O|X Project SWF19
Historic District Commission Review

Dear Commissioners,

This property is located at a key intersection in downtown Ann Arbor, directly on the corner of State and William Streets. This location is directly across from the University of Michigan Diag. The site is bounded by properties of varying use and scale, including a historic Greek Life building, a church and adjacent commercial properties. A small 12' wide easement is provided at the western end of the property for a public alley. The buildings are presently owned and maintained as a collective whole by the Owner.

The physical buildings vary in overall size, height, construction typology and exterior finishes. The 342 building is a three-story structure with lower level retail and upper level office space. The primary building façade is brick masonry with a contemporary marble/stone veneer cladding and anodized aluminum storefronts at the base level. The upper levels are contemporary replacement windows in punched openings along with historical bay windows. The building is capped by an ornate metal cornice along State and William streets. The William Street buildings are two-stories in height and are combination of underlying masonry façade with contemporary wood cladding and embellishments composed in a haphazard fashion. A small portion of historically significant corrugated metal siding remains on the second story, along with decorative diamond shapes and a metal cornice with corbels. A small portion of the original storefront cornice along with a single cast iron column, remains on the first floor. The floor levels vary between the two primary structures. Mechanical units for the tenants are located on the roof along with various projecting air conditioning units.

This portion of the work is part of a larger building renovation effort by the Owner to improve the physical conditions of the building. Other work to be carried out concurrently and already reviewed by Ann Arbor HDC staff includes restoration of existing cornice work, masonry tuckpointing and masonry unit repair, and re-painting of previously painted brick facades. Mechanical and plumbing on the primary facades will be removed and re-routed to improve the overall appearance of the building.

The work proposed includes the replacement of the building façade and storefront materials on the first level of 613-619 E. William Street. A small portion of storefront is also proposed to be replaced along William street on the 342 S. State Street building address.

Work proposed will re-establish the 613-619 William Street facades as two distinct buildings. The storefronts will be rebuilt to similar proportions of the original and previous façade designs based on historic imagery. The remaining historic remnants of the storefront cornice of 619 William, along with the remaining cast-iron column will be restored. A new replicated storefront cornice will be installed adjacent to the existing cornice to extend the full length of the 619 façade. Due to modern updates, including structural columns, and current tenant occupancies, reconfiguring the storefront to match exact proportions is not possible. The adjoining 613 façade will be rebuilt in similar proportions and materials while remaining distinct from the 619 façade. No original historic imagery was found for 613 William, as such, the proposed proportions and surface treatment are intentionally simplified and established to compliment the 619 façade.

Sincerely,

Anna Epperson
Architectural Designer
O|X Studio, Inc.



342 S. State Historic Facade Imagery, c. 1973





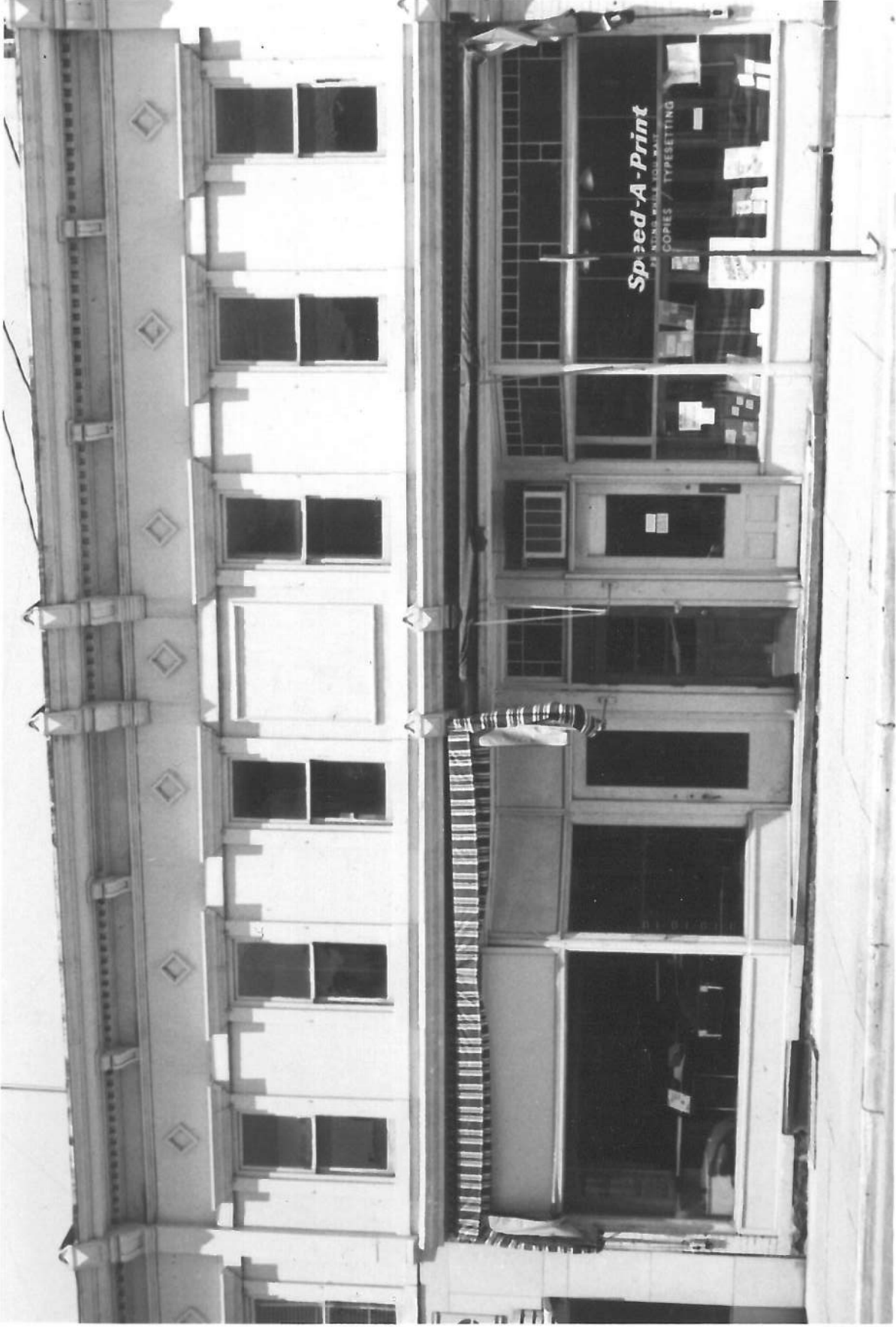
342 S. State St. Historic Facade Imagery, c. 1960





342 South St. Facade Imagery ca 1992





619 E. William St. Historic Facade Imagery, c. 1973





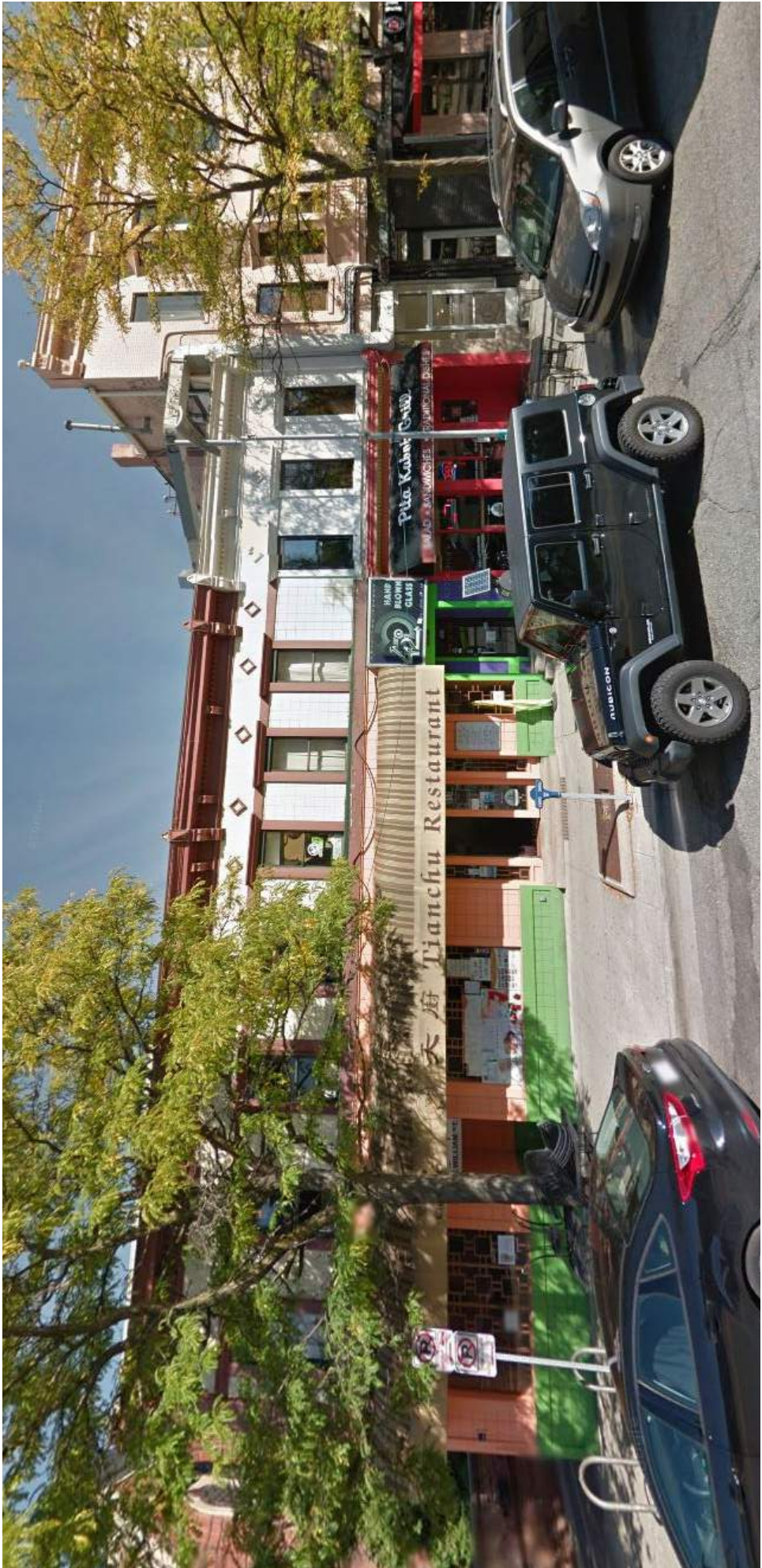
613 E. William St. Historic Facade Imagery, c. 1973





Existing Facade Conditions





Existing Facade Conditions





Existing Facade Conditions





Existing Facade Conditions





Existing Facade Conditions





Existing Facade Conditions





Existing Facade Conditions, remaining level 1 historic elements



State & William

613 E. William, Ann Arbor, MI 48104

Released For: HDC Review

Release Date: 08/23/2019

O|X Project Number: WSS-SWF19



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State & William

613 E. William, Ann Arbor, MI 48104

Title Sheet

Released For: HDC Review

08/23/2019

WSS-SWF19

G-100

NOT FOR CONSTRUCTION

Project Team

Owner: West Second Street Associates
Contact: Lynae Davis
503 S. Saginaw St. Suite 600 Flint, MI 48502
810-239-1551 x303
ldanias@wssallc.com

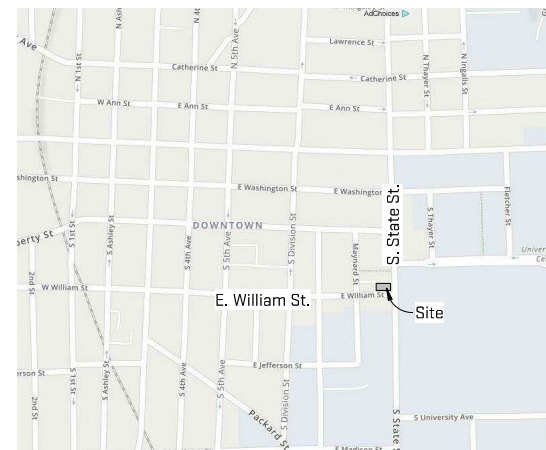
Architect: O|X Studio, Inc.
Contact: Robb Burroughs
302 S. State St., Suite B, Ann Arbor, MI 48104
(734) 929-9000
Robb@oxstudioinc.com

General Contractor: TBD
Contact: Name
Address
Phone
Email

Historic Restoration Contractor: TBD
Contact: Name
Address
Phone
Email

Project Description

This project is a storefront renovation within the State Street Historic District in Ann Arbor Michigan. The new storefront will be rebuilt within the same plane as the existing storefront. Tenant egress locations will remain in their existing locations. New openings and new facade materials will be installed, arranged in a manner that meets the City of Ann Arbor Historic District Design Guidelines. Limited electrical work will be completed to remove and relocate lighting.



Vicinity Map

Drawing List

Sheet Number	Sheet Name	Current Revision Description	Current Revision Date
General			
G-100	Title Sheet	HDC Review	08/23/2019
Demolition			
AD-101	Demolition Plan	HDC Review	08/23/2019
Architectural			
A-100	Overall Elevation	HDC Review	08/23/2019
A-101	Floor Plan & Elevation	HDC Review	08/23/2019
A-102	Perspectives	HDC Review	08/23/2019
A-103	Sections	HDC Review	08/23/2019
A-104	Sections	HDC Review	08/23/2019

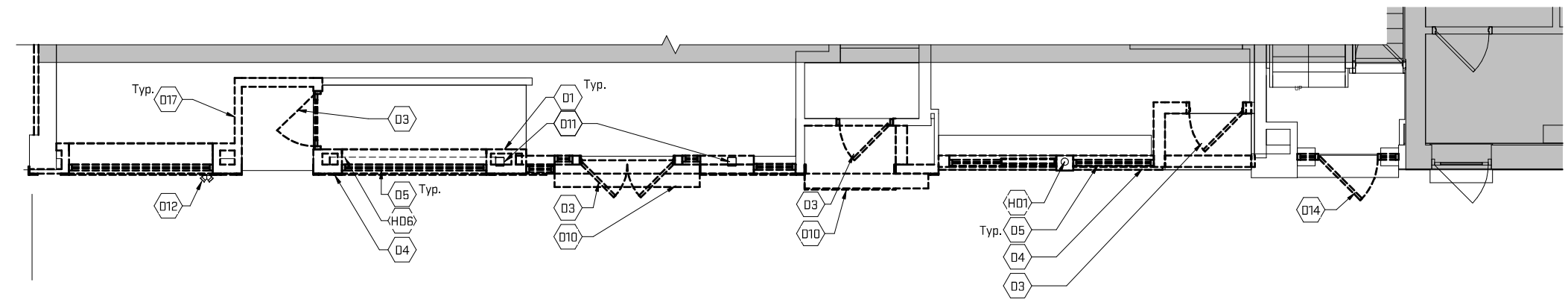
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1 South Elevation - Proposed Storefront Demolition
 AD-101 1/4" = 1'-0"



2 Level 1 - Proposed Storefront Demolition Plan
 AD-101 1/4" = 1'-0"

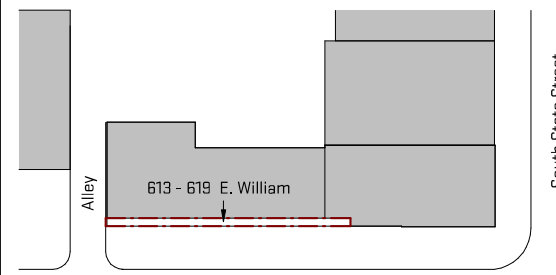
General Sheet Notes:
None

Historic Keynotes

- H01 Existing concealed cast iron column to remain, protect during construction.
- H02 Existing storefront cornice elements to remain, protect during construction.
- H06 Existing masonry wall below storefront windows to remain. Condition to be assessed by architect.

Sheet Keynotes

- D01 Existing interior finish to remain, typ.
- D03 Demolish existing door, frame, casing and hardware.
- D04 Demolish existing wood facade system to structure, (wood panel, wood trim, wood sills, etc.) existing wood studs to remain. U.N.O.
- D05 Demolish existing windows and framing.
- D06 Demolish existing light fixtures and conduit, typ.
- D07 Remove existing louver and re-route. Further investigation required.
- D08 Demolish existing awning, Typ.
- D09 Demolish existing lighted sign box.
- D10 Demolish existing concrete stair.
- D11 Existing steel column to remain.
- D12 Existing FDC connection to remain.
- D14 Demolish existing storefront system.
- D17 Demolish existing wall.
- D18 Existing concrete sill to remain.



Key Plan
 1" = 30'-0"

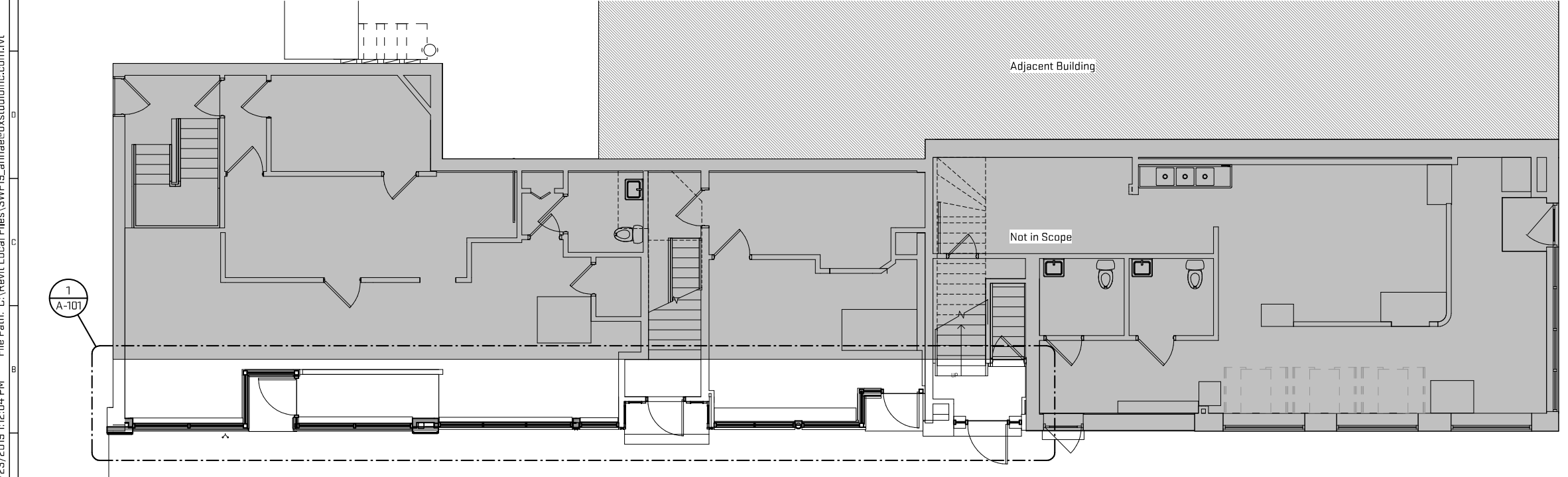
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General Sheet Notes:
None

2 South Elevation - Proposed Storefront Design
 A-100
 2'-8" 5'-4" 10'-8" 3/16" = 1'-0"



1 Level 1 - Proposed Storefront Design
 A-100
 2'-8" 5'-4" 10'-8" 3/16" = 1'-0"

Job Title:
State & William
 613 E. William, Ann Arbor, MI 48104

Sheet Title:
Overall Elevation
 Released For: HDC Review

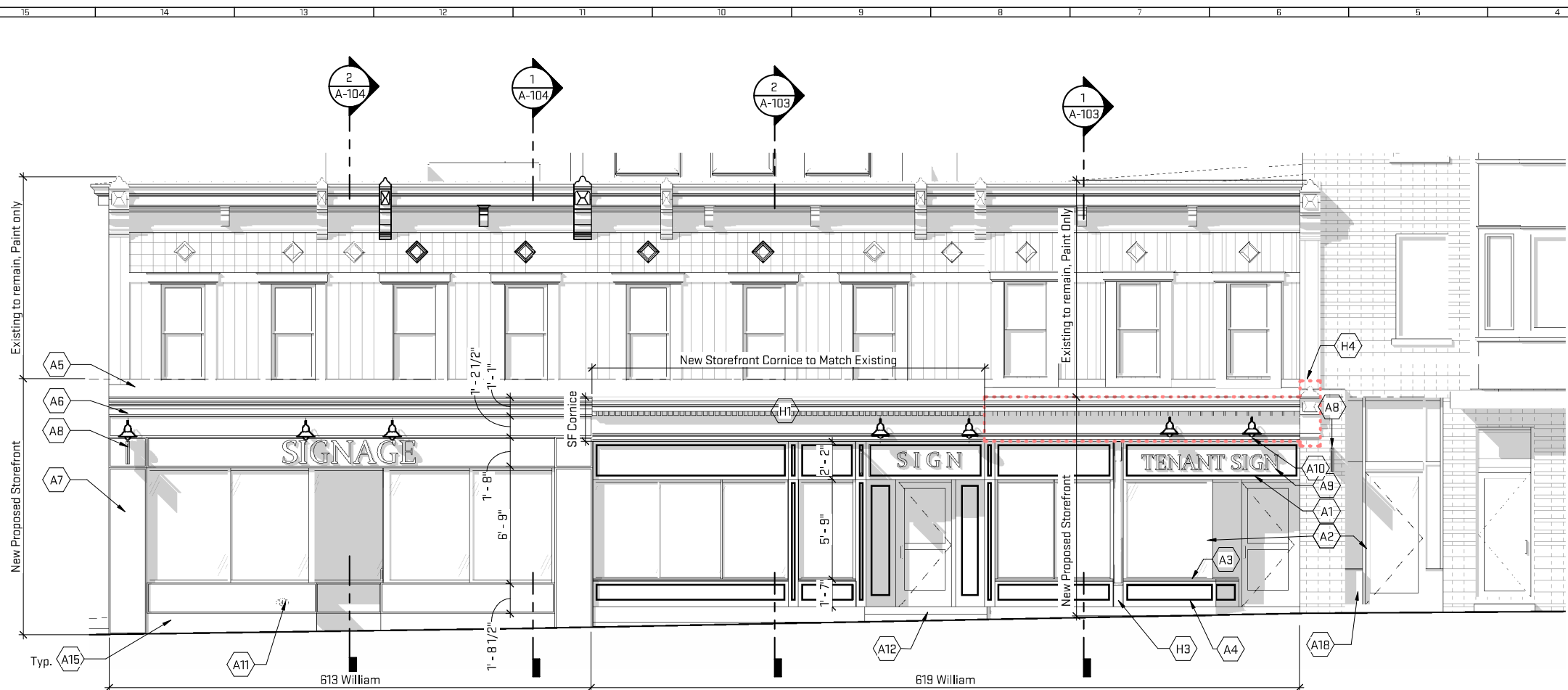
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A-100

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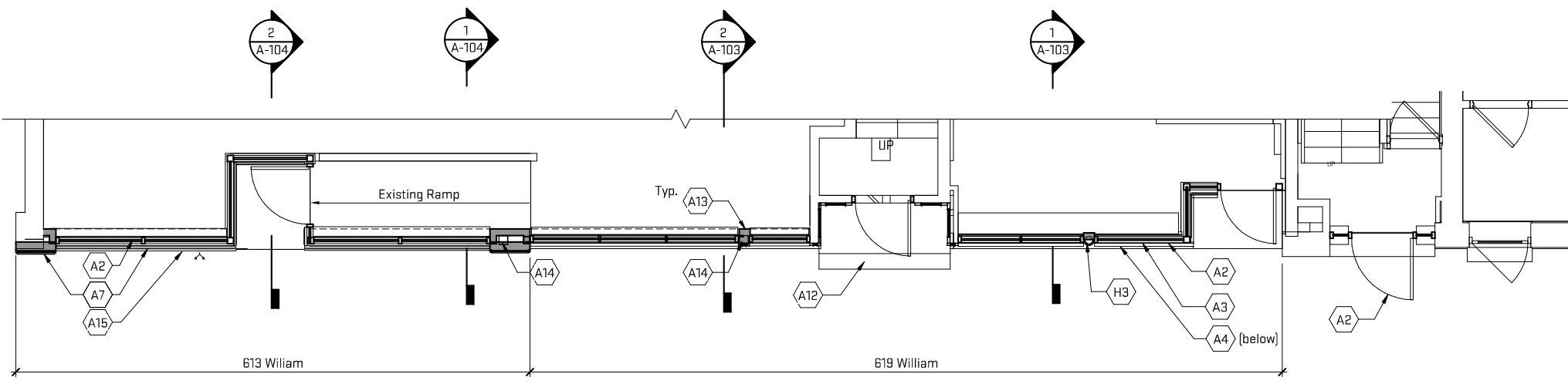
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2 South Elevation - Proposed Storefront Design
 A-101 1/4" = 1'-0"



1 Level 1 - Proposed Storefront Design
 A-101 1/4" = 1'-0"

General Sheet Notes:
None

- # Historic Keynotes
- H1 New storefront cornice. Reconstruct to match existing intact cornice.
 - H3 Existing cast-iron column, paint.
 - H4 Existing storefront cornice, paint.

- # Sheet Keynotes
- A1 New wood sign band with trim and inset panel.
 - A2 New aluminum storefront system, typ.
 - A3 New wood sill.
 - A4 New wood bulkhead with trim and inset panel.
 - A5 New wood trim.
 - A6 New storefront cornice.
 - A7 New wood bulkhead with raised panel.
 - A8 New blade sign, TBD.
 - A9 New tenant sign, TBD.
 - A10 New sign lighting.
 - A11 Existing FDC Connection.
 - A12 New concrete stair in existing stair location. Re-build to match existing.
 - A13 Patch at interior wall finish as required.
 - A14 Existing steel column.
 - A15 New concrete curb.
 - A18 Existing concrete sill.

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Job Title:
State & William

613 E. William, Ann Arbor, MI 48104

Sheet Title:
Perspectives

Released For: HDC Review

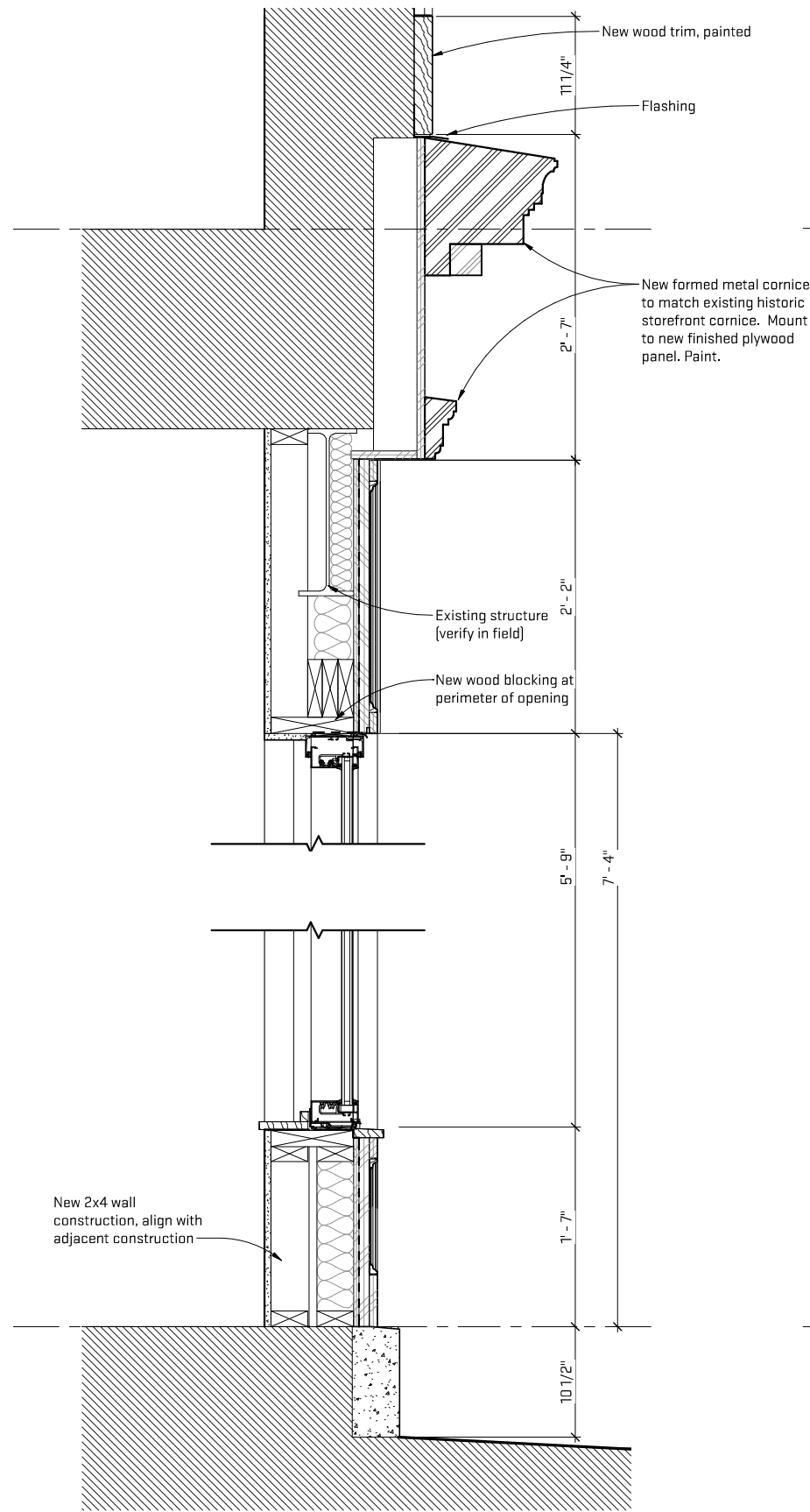
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A-102

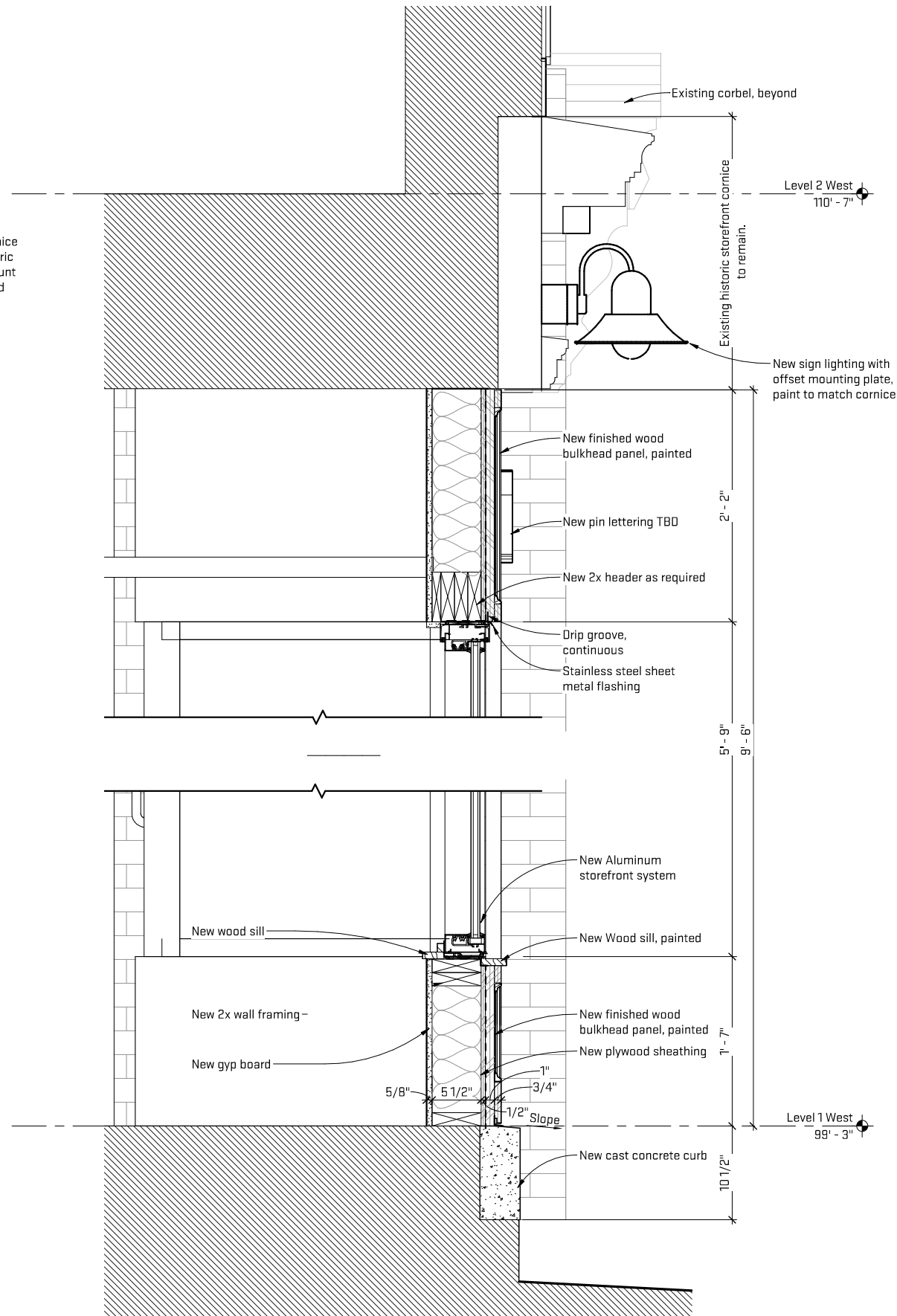
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2 Wall Section - 619 Central
A-103 4" 8" 1'-4" 1 1/2" = 1'-0"



1 Wall Section - 619 East
A-103 4" 8" 1'-4" 1 1/2" = 1'-0"

General Sheet Notes:

- A. Existing wood framed wall construction to remain.
- B. Existing cavity insulation to remain. Infill with similar insulation as required.

Basis of Design:

Storefront System: Tubelite 14000 Series Front glazed system with 2"x4 1/2" Frame profile, 2" mullions, Anodized black finish. Provide Head receptor and Sill with flashing and integral end dam.
Storefront Entrance Doors: Tubelite Narrow Stile
Glazing: 1" Insulated glazing unit: Guardian Glass; SNX 62/27;
Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 Tint: Clear, Low-Iron.
 Coating: Low-E (passive type), on #2 surface
Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 Tint: Clear.
 Thermal Transmittance (U-Value), Summer - Center of Glass: 0.27.
 Visible Light Transmittance (VLT): 64 percent, nominal.
 Solar Heat Gain Coefficient (SHGC): 27 percent, nominal.
Light Fixture: Bega 66411 LED wall luminaire, partially shielded, black, 3500K.



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Job Title:
State & William

613 E. William, Ann Arbor, MI 48104

Sheet Title:
Sections

Released For: HDC Review

08/23/2019

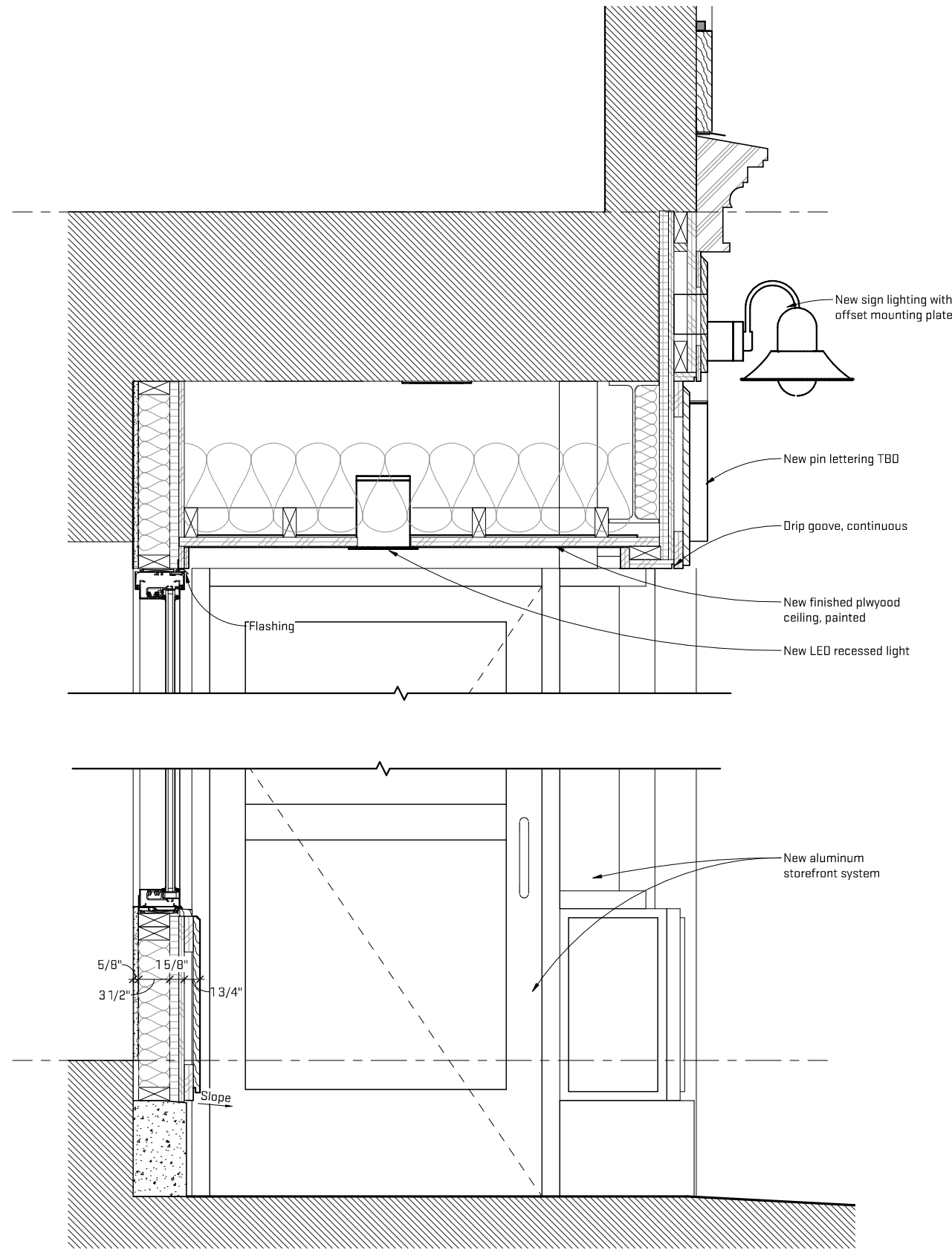
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A-103

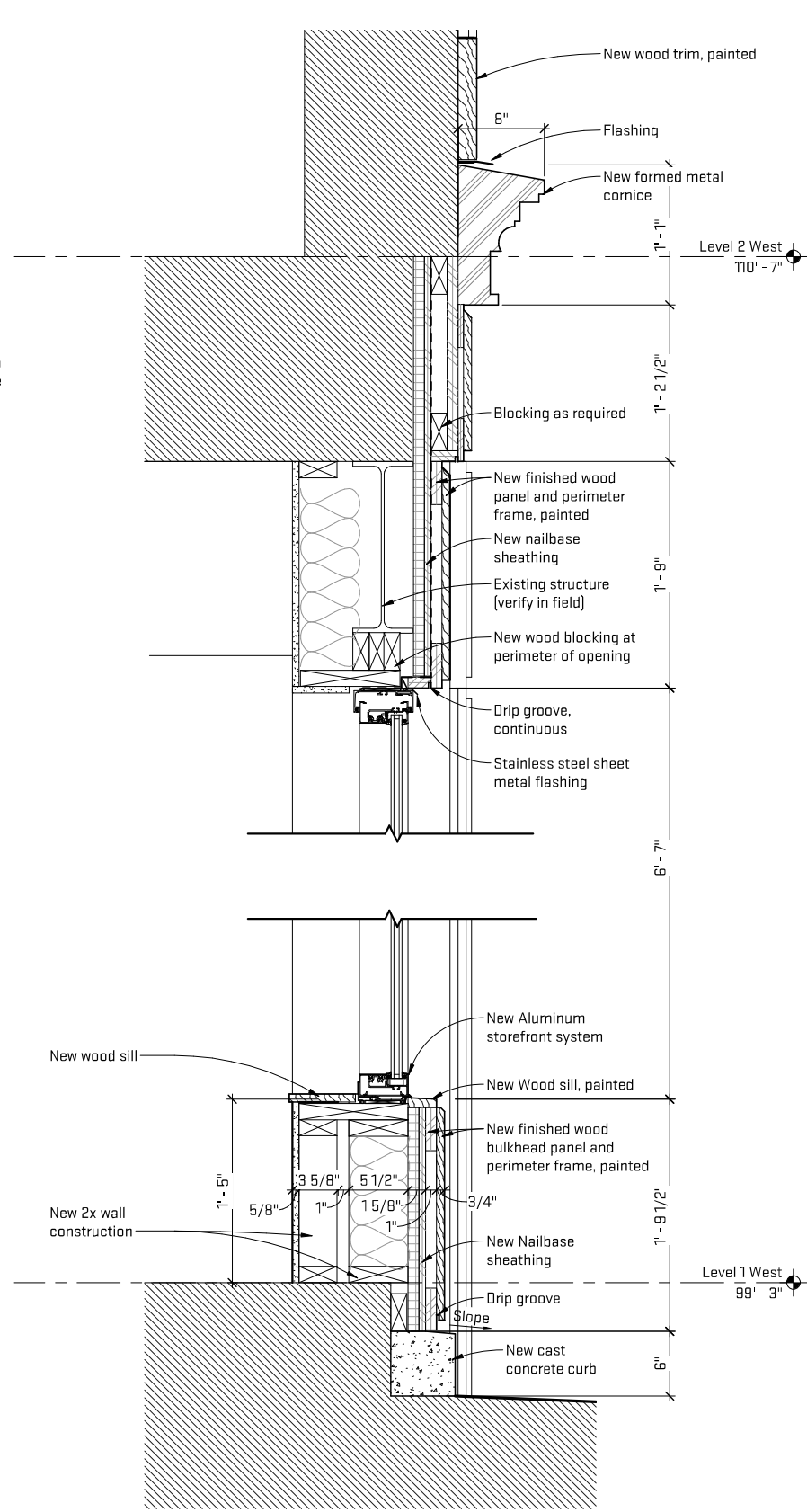
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2 Wall Section - 613 Entrance
A-104



1 Wall Section - 613
A-104

General Sheet Notes:
 A. Existing wood framed wall construction to remain.
 B. Existing cavity insulation to remain. Infill with similar insulation as required.

Basis of Design:
Storefront System: Tubelite 14000 Series Front glazed system with 2"x4 1/2" Frame profile, 2" mullions, Anodized black finish. Provide Head receptor and Sill with flashing and integral end dam.
Storefront Entrance Doors: Tubelite Narrow Stile
Glazing: 1" Insulated glazing unit: Guardian Glass; SNX 62/27:
 Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 Tint: Clear, Low-Iron.
 Coating: Low-E (passive type), on #2 surface
 Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 Tint: Clear.
 Thermal Transmittance (U-Value), Summer - Center of Glass: 0.27.
 Visible Light Transmittance (VLT): 64 percent, nominal.
 Solar Heat Gain Coefficient (SHGC): 27 percent, nominal.
Light Fixture: Bega 66411 LED wall luminaire, partially shielded, black, 3500K.



Job Title:	State & William	613 E. William, Ann Arbor, MI 48104
Sheet Title:	Sections	Released For: HDC Review

08/23/2019
WSS-SWF19
A-104

Scales listed are for 22x34 drawing size

NOT FOR CONSTRUCTION







Application

This LED wall luminaire has a partially shielded light source and is designed for the down lighting of interior and exterior locations with glare-free illumination.

Materials

Luminaire housing constructed of die-cast and spun marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy
 Three-ply opal glass
 High temperature silicone gasket

NRTL listed to North American Standards, suitable for wet locations
 Protection class IP44
 Weight: 4.0lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-20° C
LED module wattage	8.9W
System wattage	12W
Controllability	0-10V dimmable
Color rendering index	Ra > 90
Luminaire lumens	724 lumens (3000K)
Lifetime at Ta = 15° C	500,000 h (L70)
Lifetime at Ta = 40° C	268,000 h (L70)

LED color temperature

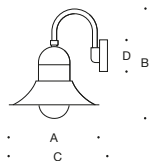
- 4000K - Product number + **K4**
- 3500K - Product number + **K35**
- 3000K - Product number + **K3**
- 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:



LED wall luminaire - partially shielded

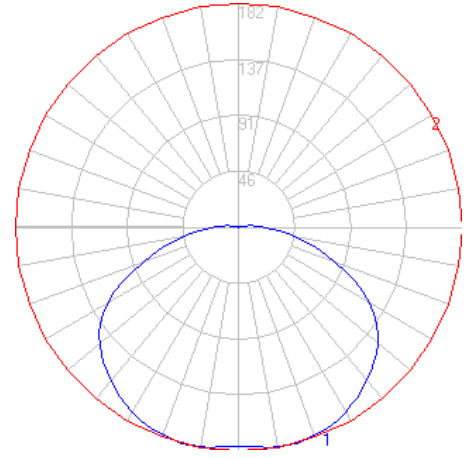
	LED	A	B	C	D
66411	8.9W	12 5/8	14 1/2	13 1/2	4 3/8



BEGA

Photometric Filename: 66411.IES

TEST: BE_66411
 TEST LAB: BEGA
 DATE: 9/12/2017
 LUMINAIRE: 66 411
 LAMP: 8.9W LED



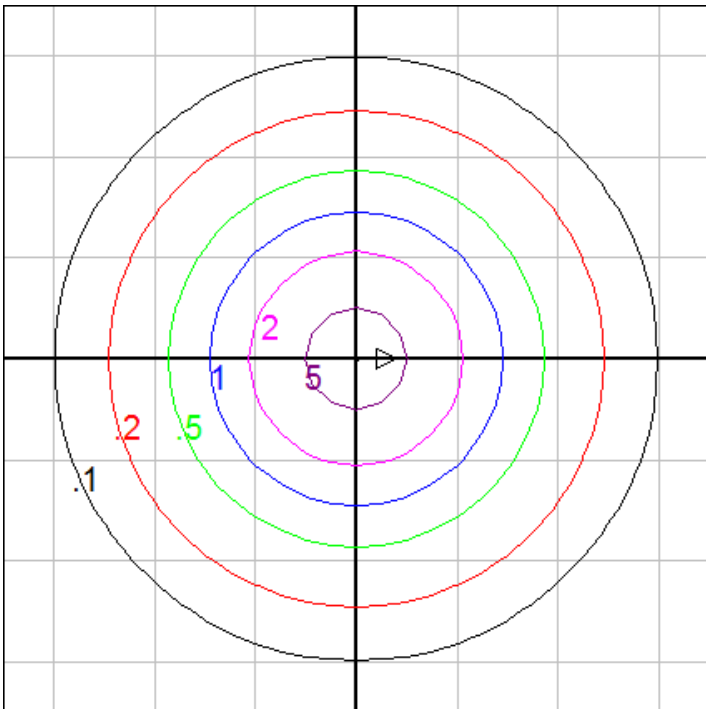
Characteristics

IES Classification	Type V
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	724
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	12
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Max. Cd.	182.007 (0H, 15V)
Max. Cd. (<90 Vert.)	182.007 (0H, 15V)
Max. Cd. (At 90 Deg. Vert.)	21.828 (3.0%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	47.401 (6.5%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

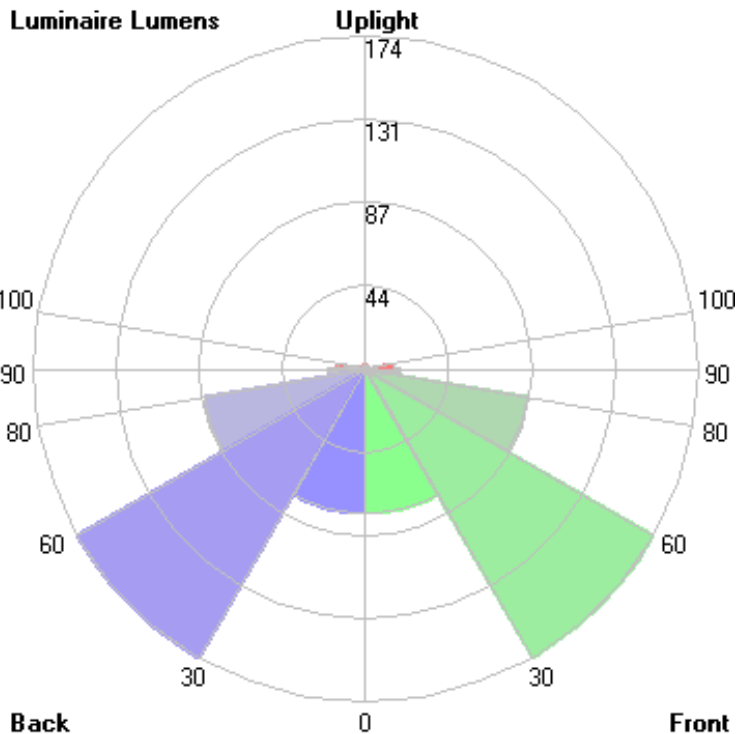
Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	75.5	N.A.	10.4
FM (30-60)	174.4	N.A.	24.1
FH (60-80)	85.8	N.A.	11.8
FVH (80-90)	18.4	N.A.	2.5
BL (0-30)	75.5	N.A.	10.4
BM (30-60)	174.4	N.A.	24.1
BH (60-80)	85.8	N.A.	11.8
BVH (80-90)	18.4	N.A.	2.5
UL (90-100)	14.5	N.A.	2.0
UH (100-180)	1.9	N.A.	0.3
Total	724.6	N.A.	100.0

BUG Rating B0-U2-G1



Mounting Height = 5 ft. Grid Spacing = 5 ft.



In the interest of product improvement, BEGA reserves the right to make technical changes without notice.