

CITY OF PORTLAND, MAINE

HISTORIC PRESERVATION BOARD



Penny Pollard, Chair
Robert O'Brien, Vice Chair
Hilary Bassett
Joy Naifeh
Julia Tate
John Turk
Rob Whitten

AGENDA

HISTORIC PRESERVATION BOARD MEETING

The Historic Preservation Board will hold a remote meeting on Wednesday, August 11, 2021, 5:00 p.m. Due to the existence of an emergency or urgent issue, the Historic Preservation Board will conduct this meeting by remote methods/technology at the Zoom link provided below In accordance with the requirements of 1 M.R.S. section 403-B and the City Council's Remote Participation Policy.

For more information on how to access the meeting remotely and how to give public comment, please go to <http://www.portlandmaine.gov/remotepud>

Public comment will be taken for each item on the agenda and written comments should be submitted to hp@portlandmaine.gov. **Please note that the placement of items on this agenda are subject to change – please check the Agenda & Minutes Center prior to the meeting for the item approximate start time.**

ZOOM MEETING INSTRUCTIONS

Please click on the link below to join:
<https://us02web.zoom.us/j/82924689577>

For public comment, you will need to use the “raise your hand” feature. To raise your hand via the telephone, please hit *9. You will be unmuted by the moderator when it is time for public comment.

For One tap mobile:

US: +19292056099,,82924689577# or +13017158592,,82924689577#

Or Telephone: Dial(for higher quality, dial a number based on your current location):

US: +1 929 205 6099 or +1 301 715 8592 or +1 312 626 6799 or +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799

Webinar ID: 829 2468 9577

International numbers available: <https://us02web.zoom.us/j/82924689577>

For more information on how to use Zoom, please go to: <https://www.portlandmaine.gov/remotepud>

- 1. ROLL CALL AND DECLARATION OF QUORUM**
- 2. REPORTS OF DECISIONS AT THE MEETING HELD JULY 28, 2021.**
 - i. Adoption of Remote Participation Policy effective August 1, 2021. The Board voted 6-0 (O'Brien absent) to adopt the policy as written.
- 3. COMMUNICATION AND REPORTS**
- 4. PUBLIC HEARING - 5:00 PM**
 - i. Certificate of Appropriateness for Exterior and Site Alterations, Dormer Additions; 5 EASTERN PROMENADE, Casco Chatauqua Development, Applicant.

- ii. Certificate of Appropriateness for Rooftop Addition and Exterior Alterations; 50 EXCHANGE STREET; Edith Armstrong, Applicant.
- iii. Certificate of Appropriateness for Comprehensive Program of Site Alterations; 144 & 148 STATE STREET; New Height Redfern LLC, Applicant.

5. WORKSHOP

- i. Preliminary Review of Proposed Site Alterations, including Labyrinth; 143 STATE STREET; St. Luke's Cathedral, Applicant.

6. CONSENT AGENDA

**HISTORIC PRESERVATION BOARD
CITY OF PORTLAND, MAINE**

**PUBLIC HEARING
50 EXCHANGE STREET**

TO: Chair Pollard and Members of the Historic Preservation Board
FROM: Deb Andrews, Historic Preservation Program Manager
DATE: August 4, 2021
RE: August 11, 2021 **PUBLIC HEARING**

Application for: **Certificate of Appropriateness for Rooftop Addition,
Architectural Lighting & Masonry Repairs**

Address: 50 Exchange Street

Applicant/Building Owner: Edith Armstrong

Architect: Patrick Boothe, Caleb Johnson Studio

Introduction

Following a July 7 workshop session, architect Patrick Boothe and applicant/property owner Edith Armstrong are requesting final review and approval of their proposal for a rooftop addition at 50 Exchange Street. Also proposed are masonry repairs, restoration of existing upper floor windows and installation of architectural lighting on the front façade. As Board members will recall, the building owner is planning to convert the second and third floors of the three-story commercial block into four residential units. The proposed rooftop addition will create additional space for the third-floor units. As proposed, the addition will accommodate a bedroom and bathroom for each unit, as well as individual rooftop decks.



50 Exchange

In preparation for the public hearing, and at the request of the Historic Preservation Board, a mock-up of the proposed rooftop addition has been erected for review by Board

members. (A mock-up was also requested by Maine Historic Preservation Commission staff, who are reviewing the addition for conformance with the Secretary of the Interior's Standards for Rehabilitation, as the applicant is seeking historic tax credits for the project.) While photos of the building with the mock up in place are provided with this packet, Board members are urged to conduct a site visit prior to the public hearing.

Given the fact that the Board was supportive of the design proposal presented at the workshop (pending confirmation of the addition's limited visibility), the plans and elevations have not changed from what was proposed on July 7th. The applicant has provided additional information about proposed lighting, however. See ATTACHMENT 5 for the fixture proposed for the exterior wall of the roof top addition and ATTACHMENT 6 for the architectural uplights proposed for the Exchange Street façade. See also ATTACHMENT 7 for a photo of the same fixtures installed at 110 Exchange.

Subject Structure, Surrounding Context

The Cummings and Sturdivant Block at 50 Exchange Street is typical of the buildings that line Exchange Street, although more conservative in design than some of its more architecturally embellished neighbors. Built in 1868, the three-story, brick Italianate commercial block relies on brick segmental arched window hoods on corbels and decorative brickwork beneath the denticulated cornice to enliven an otherwise straightforward upper façade. The building is seven bays wide. The center bay of the upper façade features recessed bricked-in openings that echo the windows on either side and that are topped by the same projecting hoods.

Originally, 50 Exchange Street was abutted on the south by a narrow three-bay building. At some point after 1924, the building was removed. (The building can be seen in the 1924 photo; the tax form notes its condition as "poor".) The building's removal opened up views of the subject building's solid brick party wall. The wall is punctuated by two shallow projecting chimneys. 50 Exchange Street's roof form can also be clearly seen—a flat roof which slopes gently toward the rear of the building.

A 24-foot-wide passageway now separates the subject structure from its nearest neighbor to the south. On the north side of 50 Exchange is a four-story commercial block with mansard roof. Beyond that is a five-story block. As viewed from the north, the subject building's roof is largely obscured by these taller, neighboring buildings.

Although the heights of buildings along lower Exchange vary somewhat, most roofs are flat or mansard. Additional floors were added to a number of the buildings following their original construction. As was customary, these added floors occupied the entire footprint and followed the architectural vocabulary of the original structure. The few recent rooftop additions that exist on lower Exchange were built prior to passage of the historic preservation ordinance. Most are relatively small in footprint, are highly visible from several vantage points and would likely not meet the ordinance review standards.

Proposed Addition

As Mr. Boothe states in his cover letter, the addition has been designed to have limited visibility from the public way. To achieve this, the proposed addition has been set down into the existing structure (as shown on Sheet A-201 south elevation). It is also irregular in form, with the portion closest to the street only 38 feet wide and set back 11' 10" from the Exchange Street façade and 11 feet from the building's side walls. The roof of this front section slopes toward Exchange Street (3/12 pitch) and includes two skylights. The addition widens toward the back of the building, occupying almost the full width of the roof. The addition is set back 1' 8 ½" from the rear and side elevations. The roof over this rear section is flat.

The exterior is clad in composite metal panels without distinguishing trim. This provides a monolithic appearance. Fenestration is limited. Two small windows face Exchange Street and are located on the set-back portion of the addition. On the alley-facing elevation, a glass door and full-length sidelight are shown on the narrower front portion of the addition. The door leads to a roof deck with railing. The railing is set back 1' 8 ½" from the side wall. It projects only a few inches above the roof, however, because the addition is depressed into the existing structure. Also facing the alley, toward the back of the addition, is a single tall window.

Unlike the front of the proposed addition, which has been "sculpted" to limit visibility, the rear portion of the addition is much simpler in form and treatment. The rear elevation features two sets of four ganged tall windows separated by a solid field of vertical metal panels. This elevation faces the interior of the block, which is private property, however it is an area frequented by the public.

Plans call for solar panels to be mounted on the flat portion of the addition's roof. The panels are mounted at a slight pitch. Also shown are two heat pumps mounted to the front elevation of the addition. The heat pumps are centered on the wall and mounted perpendicular to it. This position, presumably, has been chosen to limit their visibility from the street.

Summary of Board Comments at 7/7 Workshop

As noted in the introduction to this report, Board members responded very favorably to the design proposal for the rooftop addition at the July 7th workshop, noting that it was clear that care had been taken to reduce the addition's scale and visibility to the extent possible. Board members also noted that visible portions of the addition had been treated in such a way as to make it visually recessive, with a limited material palette and fenestration and a monochromatic color scheme. Although a potential area of concern was the presence of heat pumps on the Exchange Street face of the addition and their potential visibility, Board members were willing to suspend judgement on the heat pumps until a mock-up could be reviewed.

Preliminary Staff Comments

From staff's observation of the mock-up, it is clear that the addition will have limited visibility from Exchange Street. It appears also that the heat pumps will not be visible from any point on the street. In staff's view, while the introduction of rooftop additions on Exchange Street has the potential to materially impact the historic character of the street and must be given careful consideration in all cases, this particular addition succeeds in having minimal impact on the subject building or its surrounding context. While partially visible, the addition is set back from the principal façade, architecturally recessive, differentiated from the historic structure and clearly subordinate to it. For these reasons, staff finds that it meets the preservation ordinance's applicable review standards.

If the Board votes to approve the proposed addition, it will be important for Board members to clearly articulate their findings. Mindful of the fact that this project may set a precedent for other rooftop proposals on Exchange Street and mindful of the potential cumulative effect of such additions on this significant historic streetscape, it is important to establish a clear record as to why this particular proposal meets the ordinance standards.

Applicable Ordinance Review Standards (from Standards for Review of Alterations)

- (1) Every reasonable effort shall be made to provide a compatible use for the property which requires minimal alteration to the character-defining features of the structure, object or site and its environment or to use a property for its originally intended purpose.*
- (2) The distinguishing original qualities or character of a structure, object or site and its environment shall not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible.*
- (9) Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant cultural, historical, architectural or archeological materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the size, scale, color, material and character of the property, neighborhood or environment.*
- (10) Wherever possible, new additions or alterations to structures and objects shall be undertaken in such a manner that, if such additions or alterations were to be removed in the future, the essential form and integrity of the historic property would be unimpaired.*

Motion for Consideration:

On the basis of plans and specifications submitted by the applicant for the August 11, 2021 public hearing and information included in the accompanying staff report, the Board finds that the proposed rooftop addition and architectural lighting at 50 Exchange Street **meet (fail to meet)** the historic preservation ordinance's Standards for Review of Alterations **(subject to the following conditions.....)**

Attachments:

1. Cover letter from architect
2. Plans, elevations and renderings
3. Additional roof plan with dimensions
4. Photos of mock-up
5. Spec. for wall-mounted sconce on addition
6. Spec. for architectural lighting
7. Photo of proposed fixture at 110 Exchange

4/9/2021

Deb Andrews
Historic Preservation Program Manager
City of Portland
389 Congress Street
Portland, Maine 04101

RE: 50 Exchange Street
Application for Historic Preservation Board Small Projects Review

Ms. Andrews:

The owner of 50 Exchange Street, a three story building within the Old Port Historic District, is proposing interior renovations to convert the existing 2nd and 3rd floor business into 4 residential units. The project also includes a 834sf rooftop addition (4th story) to add bedroom, bathroom and outdoor spaces for 2 of the dwelling units.

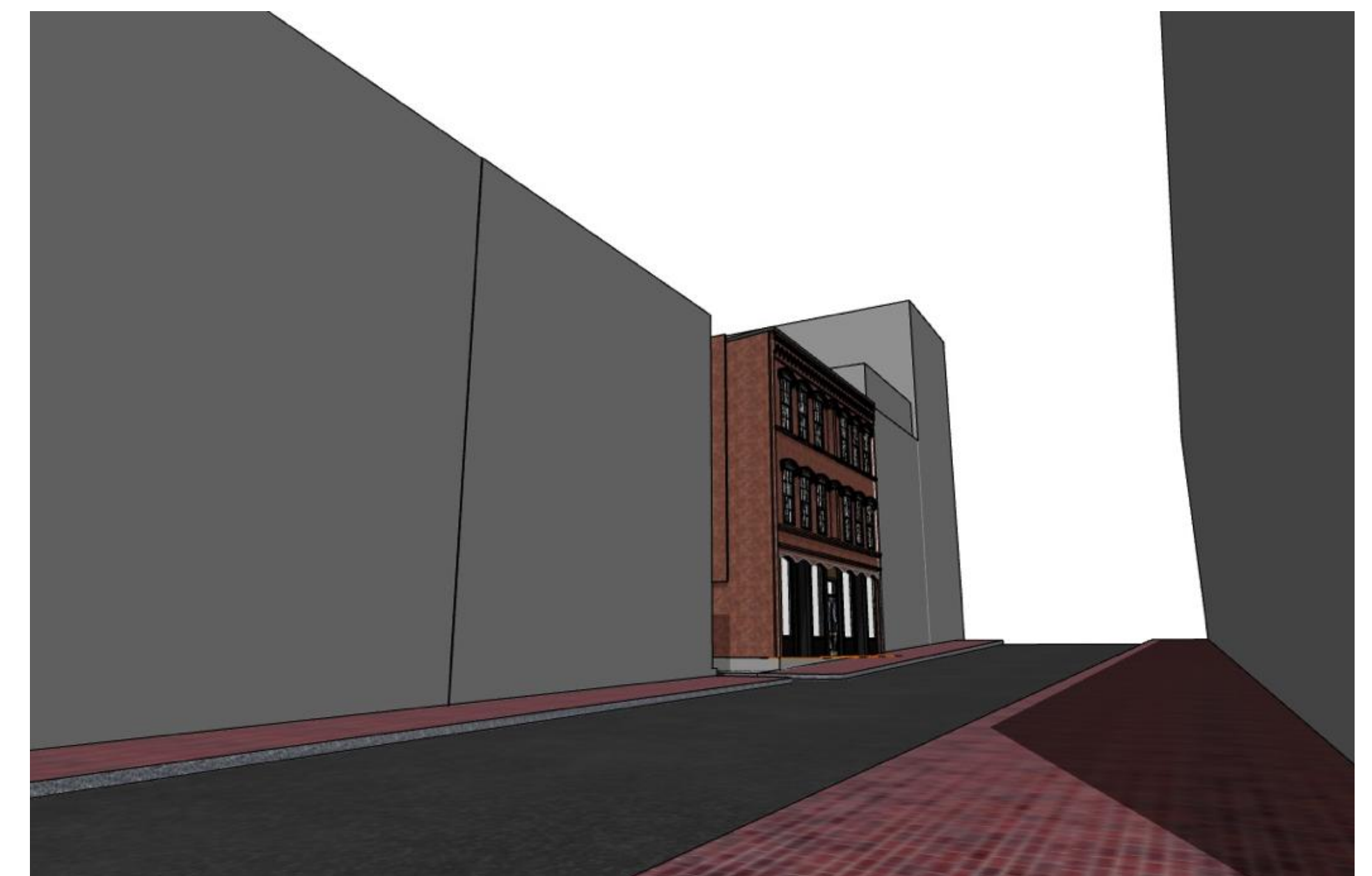
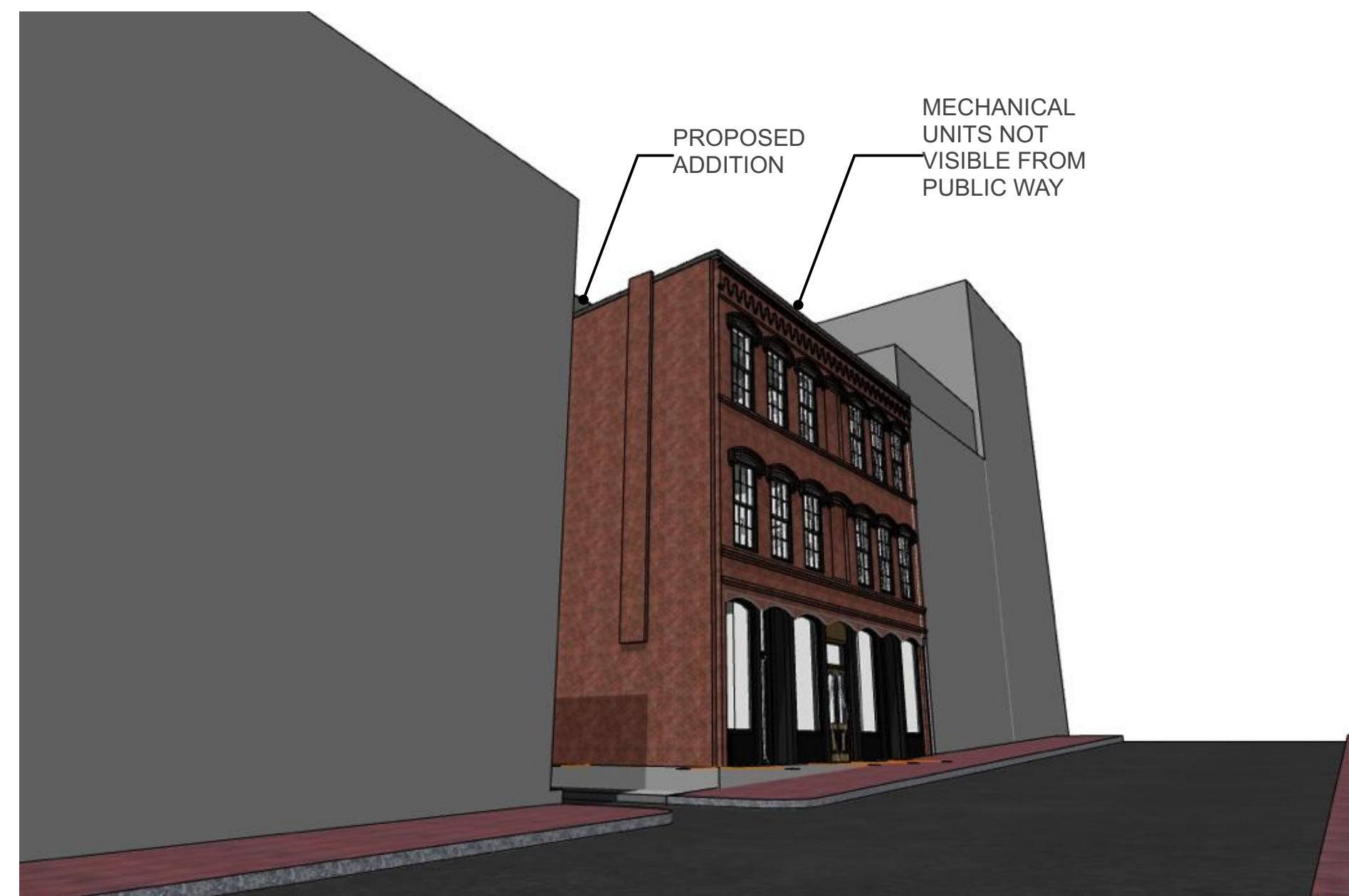
We have provided preliminary design drawings including plans and elevations as well as 3D views and sight line studies from Exchange Street for the Board's consideration. The addition has been designed to have minimal visibility from the public way.

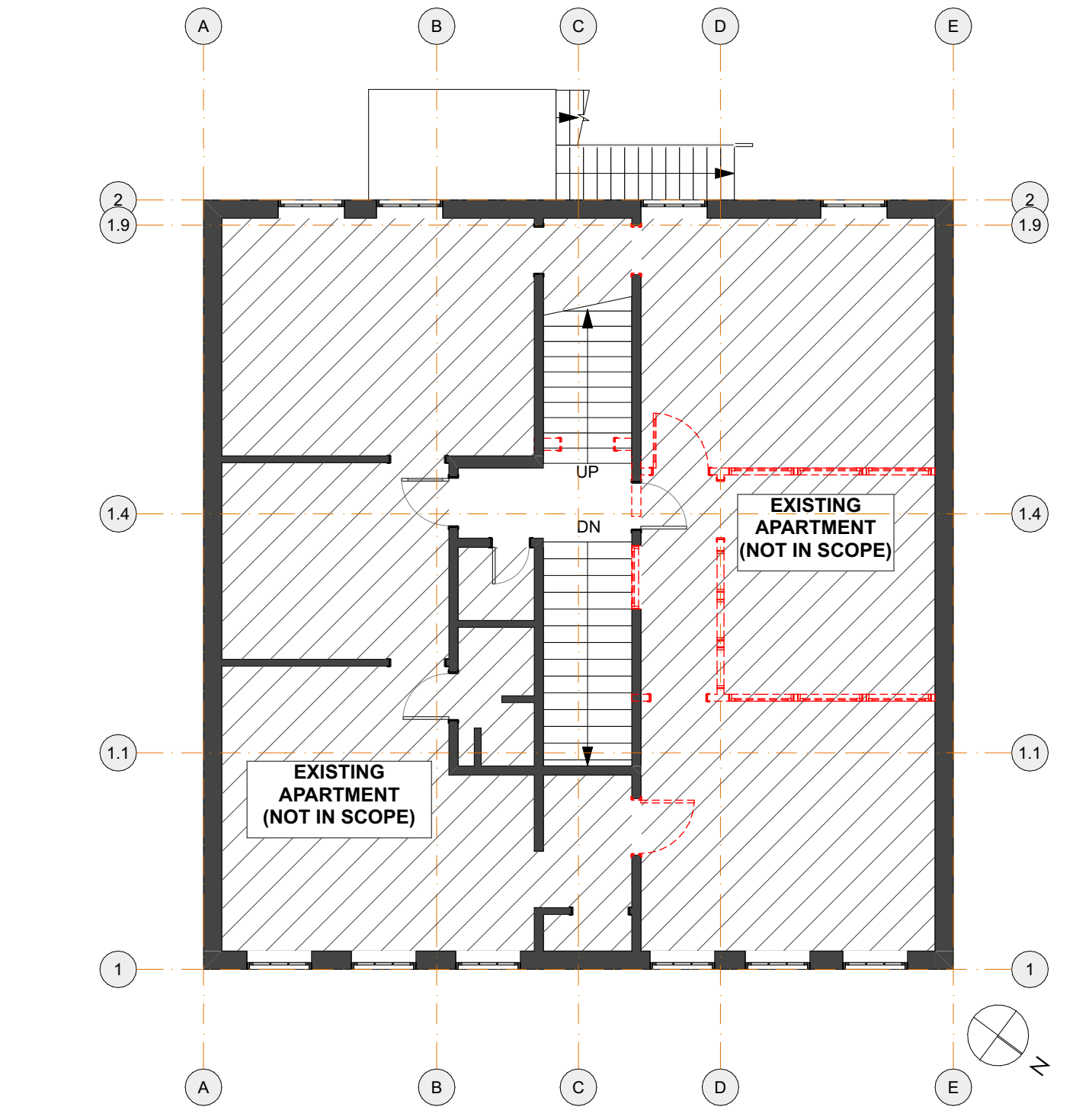
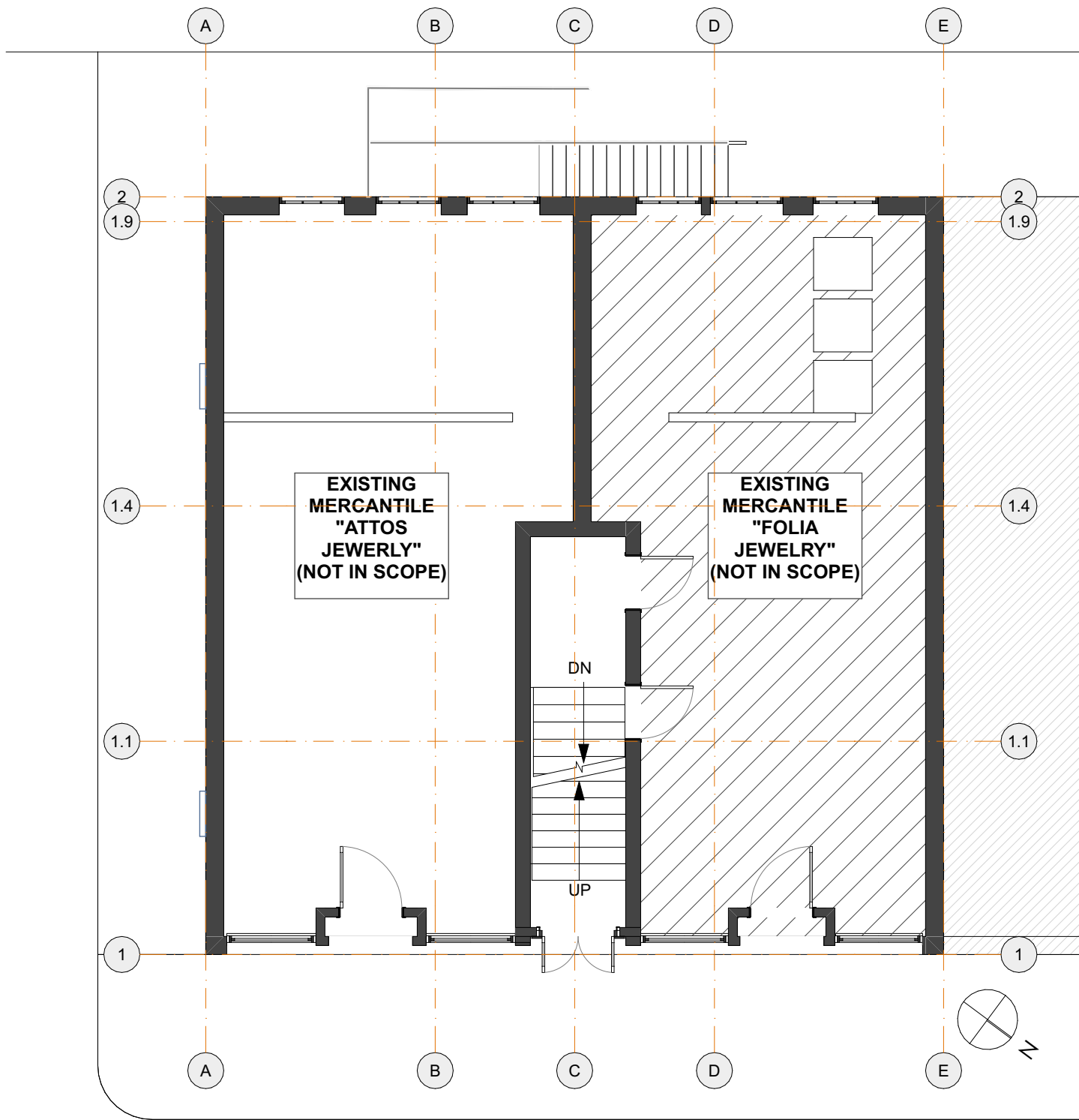
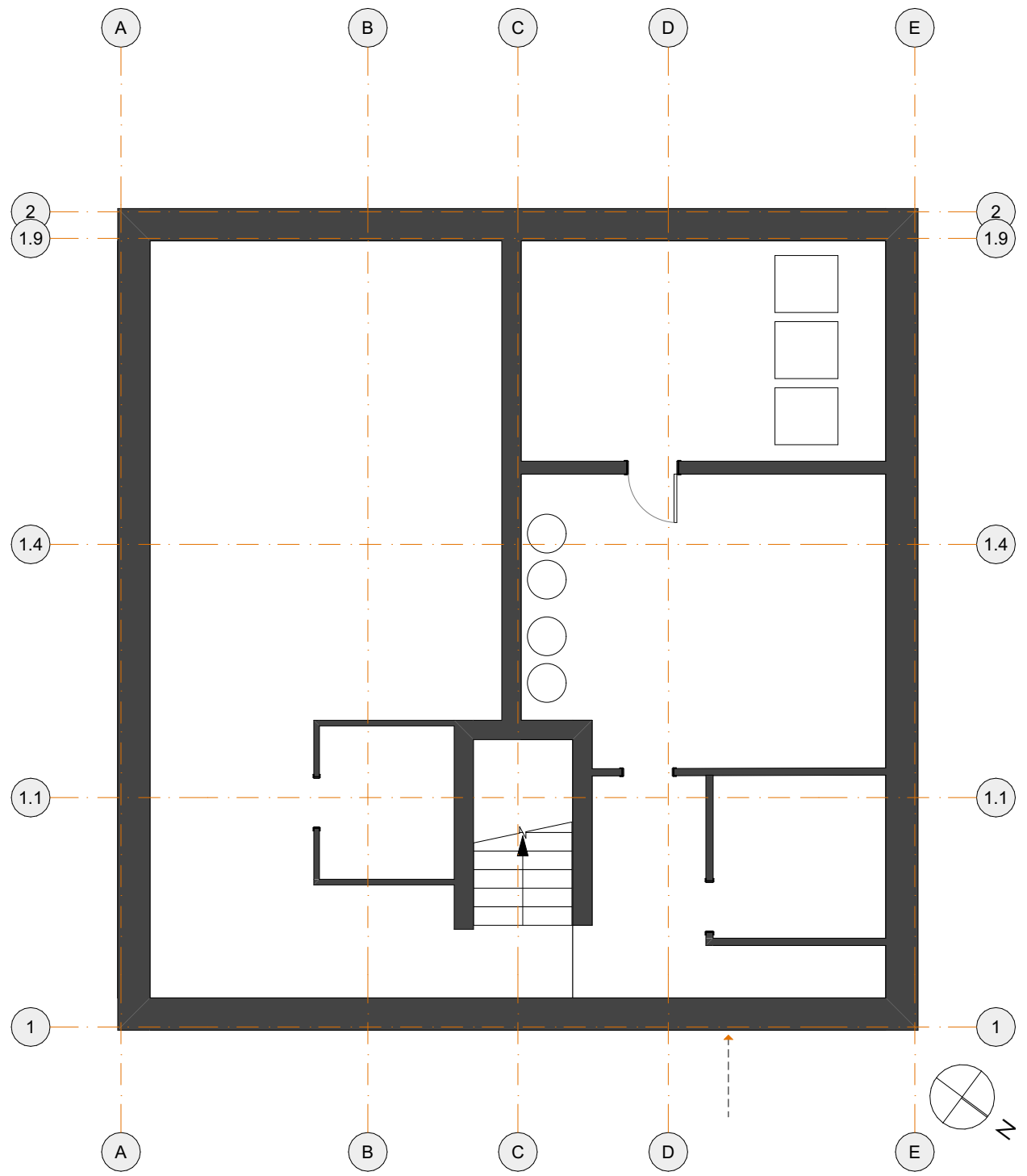
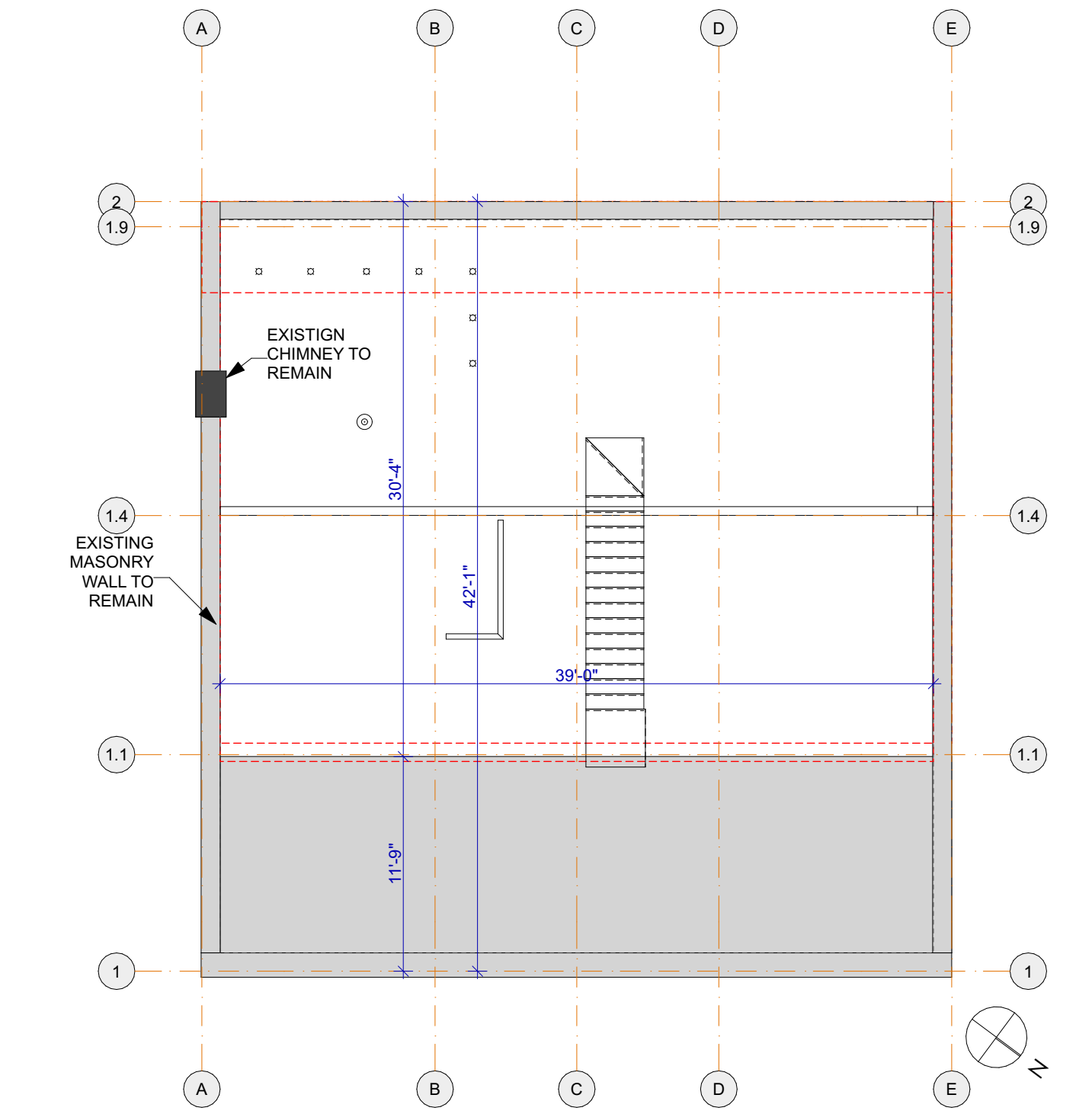
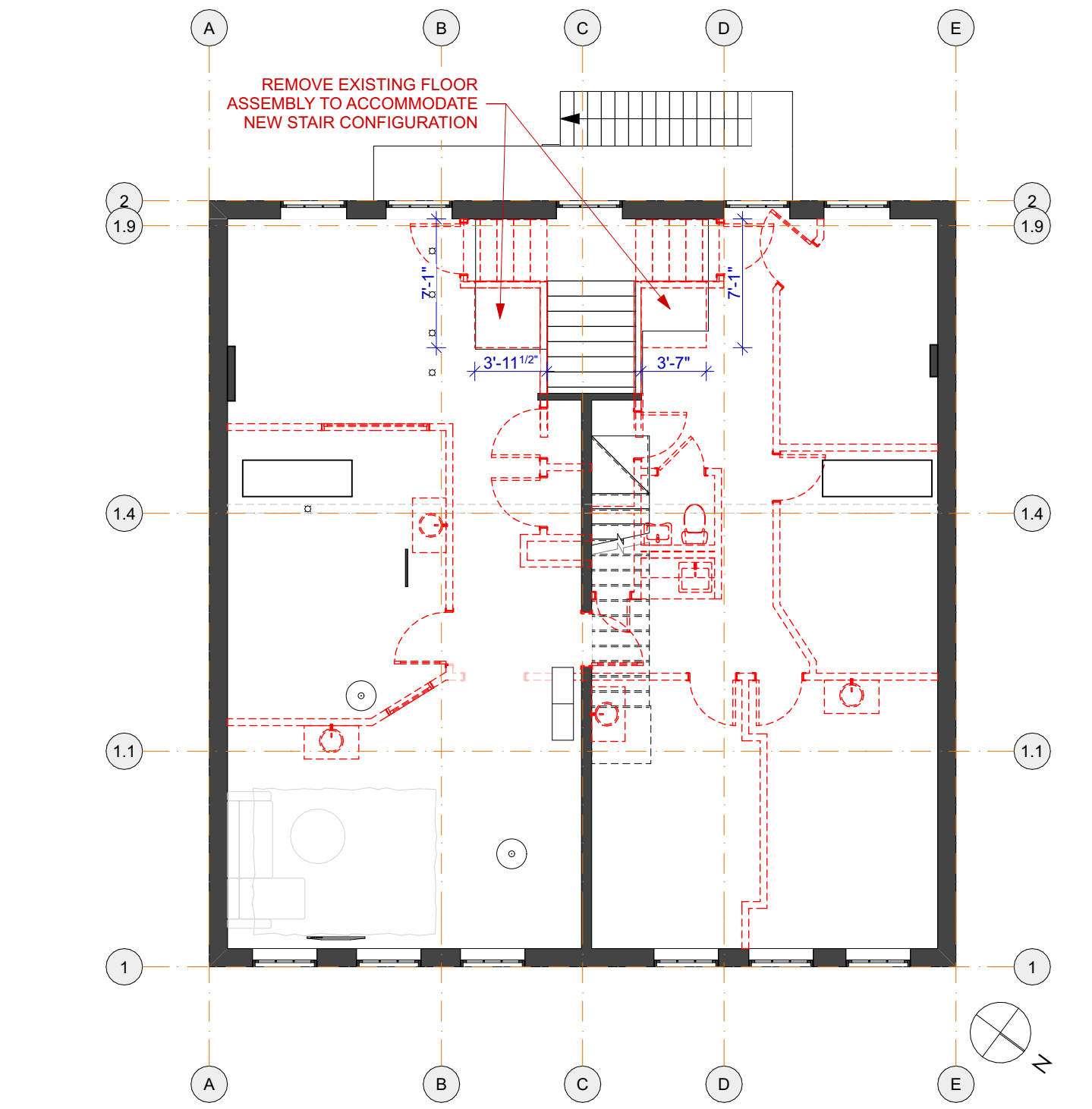
The project intends to utilize historic tax credits and the NPS Part 1 application has been accepted. In addition, an advisory determination request has been submitted regarding the suitability of the rooftop addition. The Maine HPC has approved the advisory determination based on the preliminary design we have provided and the federal review is currently pending but expect to have this approved within April.

We request a board workshop at the earliest availability to review the design and ensure the project meets local historic ordinances and then make necessary adjustments.

Sincerely,

Patrick Boothe, AIA of Caleb Johnson Studio
ME Licensed Architect ARC #4204





100% SCHEMATIC DESIGN GENERAL NOTES

1. **Drawing Set Status:** These Drawings constitute a preliminary progress set only for the purpose of establishing a schematic budget and is NOT FOR CONSTRUCTION. Additional information, dimensions and specifications will be provided by the Architect and/or Owner at a later date or as requested.
2. **Project Schedule:** The Owner would like to start construction as soon as practically possible. The projected delivery of the building permit will be early September 2021.
3. **Budgeting Notes:** The Owner would like several cost items broken out as groups for the purposes of project planning and financing due to historic tax incentives, these include but not limited to:

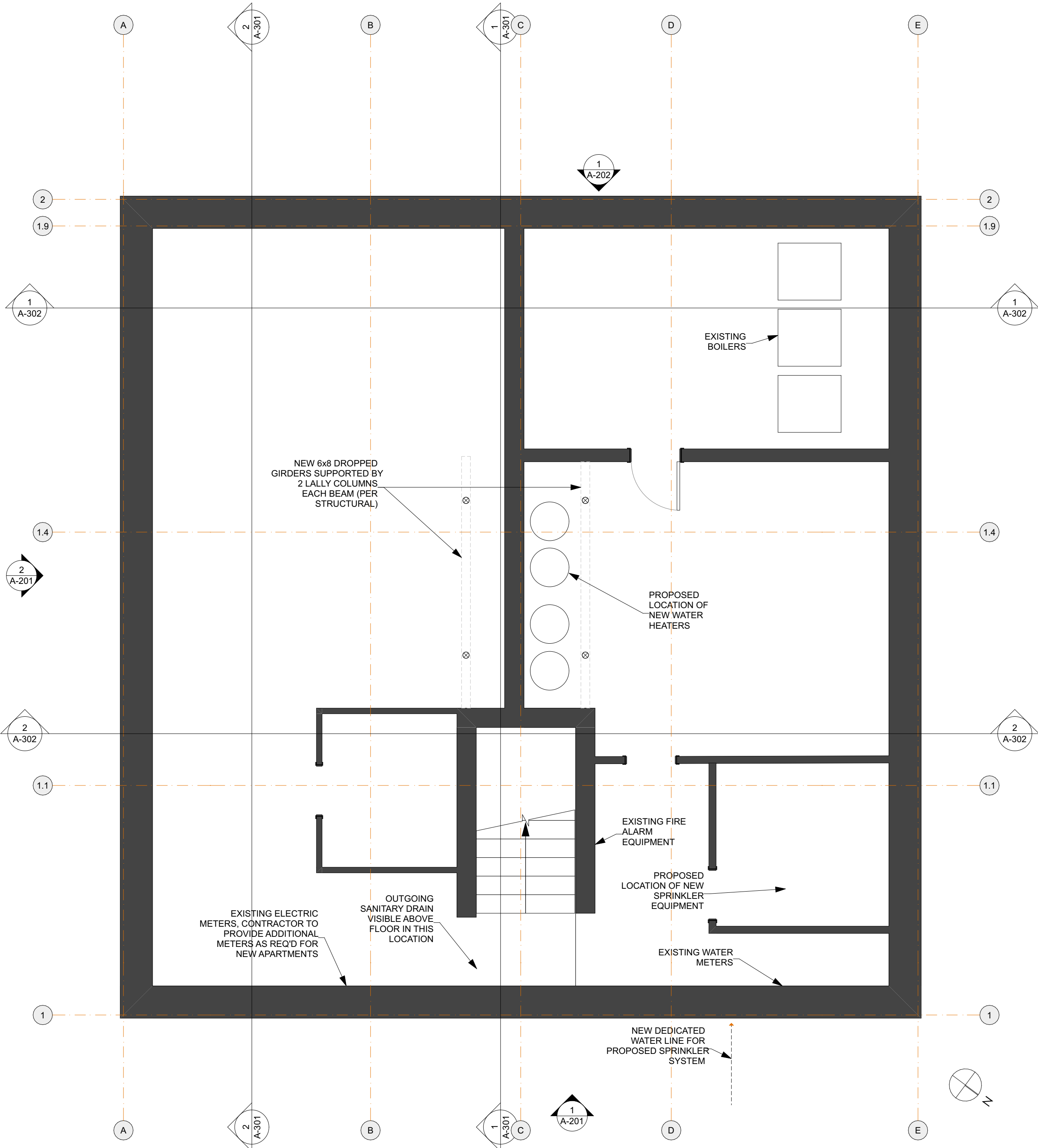
a. New roof framing

b. Entirety of the new roof addition
4. **Specifications:** Outline Specifications will be provided at a later date in subsequent design submissions.
5. **Dimensions:** All floor plan dimensions are from face of core structure material, such as wood studs, UNO.
6. **Walls/Floors:** See wall and floor type assemblies on A-601
7. **Mechanical and Plumbing trades:** The project Mechanical Engineer (Ripcord Engineering) had provided information for size and space requirements and locations for incoming service and has made selections where applicable. Contractor is to review and bring to the Architect's attention if additional information is required. Each trade contractor responsible to meet local code.
8. **HVAC Basis of Design:** Refer to the Mechanical Engineering design narrative on sheet G-003 for more information.
9. **Plumbing Fixtures and Bathroom Accessories:** Refer to plumbing schedule on sheet A-601 for more information.
10. **Automatic Sprinkler System:** The sprinkler system is to be design-build by the sprinkler contractor. The entire building is to be provided with a new NFPA13 sprinkler system. It is expected a new fire line will be pulled from Exchange Street. Contractor to coordinate any additional requirements. The sprinkler contractor is responsible to obtain a sprinkler permit from the City of Portland.
11. **Electrical and Lighting Basis of Design:** Electrical work is to be design-build by the electrical subcontractor. Contractor is to refer to the basis of design power plans and RCPS for additional information (forthcoming in future submissions) *Refer to RCP and Power Plans on sheet A-121. Refer to lighting schedule for fixture selections.*
12. **Life Safety Devices:** Refer to Code Analysis and Life Safety sheet G-001 for basis of design for locations and quantities of life safety equipment. Subcontractor responsible to meet state and local codes if in conflict with the basis of design shown.
13. **Finishes and Furnishings:** TBD, Forthcoming. *Refer to Finishes and Furnishings Plan on sheet A-111*
14. **Millwork:** TBD Forthcoming, contractor to carry allowances for custom millwork in sizes shown on the plans
15. **WiFi and Networking:** Refer to Power Plan on sheet A-121 for more information

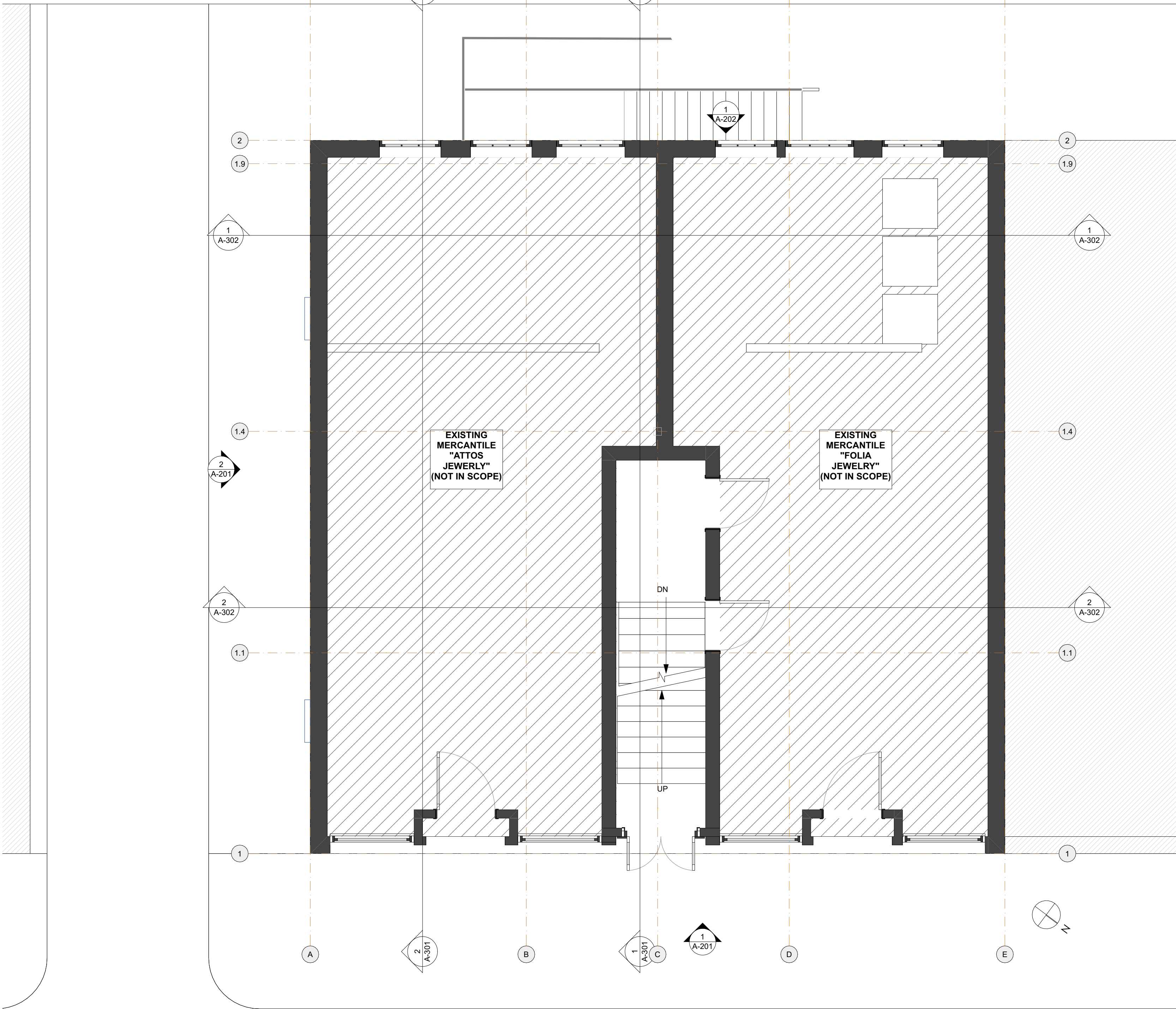
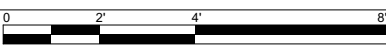
16. **Appliances:** All appliances are to be Owner-Furnished, Contractor installed. Refer to sheet A-601 for basis of design selections.
17. **Energy Efficiency:** Refer to Outline Specification for energy efficiency strategies.
18. **Contingencies:** It is recommended that the Contractor provide a separate 10% construction contingency added to the overall construction estimate to address any unforeseen issues that might arise during construction.
19. **Construction Administration:** The Contractor is to refer to Owner-Contractor contract with regard to the Architect's role during construction. The Architect shall meet with the Contractor on site a minimum of twice per month to review progress. Answers to Questions (RFI's) from the Contractor and/or necessary supplemental information (ASK's) from the Architect will be provided upon request. Though CJS will work to provide a response as soon as practical, It is requested that a minimum of 5 business days be allowed for a response. There are several shop drawings, product data or product samples that are required to be provided by the Contractor for Architect and Owner these are, but not limited to:

Shop Drawings and/or product data for: Windows, Exterior and Interior Doors, All Cabinetry, Mechanical Equipment and Plumbing Fixtures

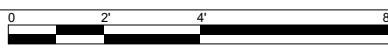
Provide Finish Samples for: Wood veneers and solid wood with finishes per schedule, specialty tiles



2 BASEMENT
SCALE: 1/4" = 1'-0"



1 1ST FLOOR
SCALE: 1/4" = 1'-0"

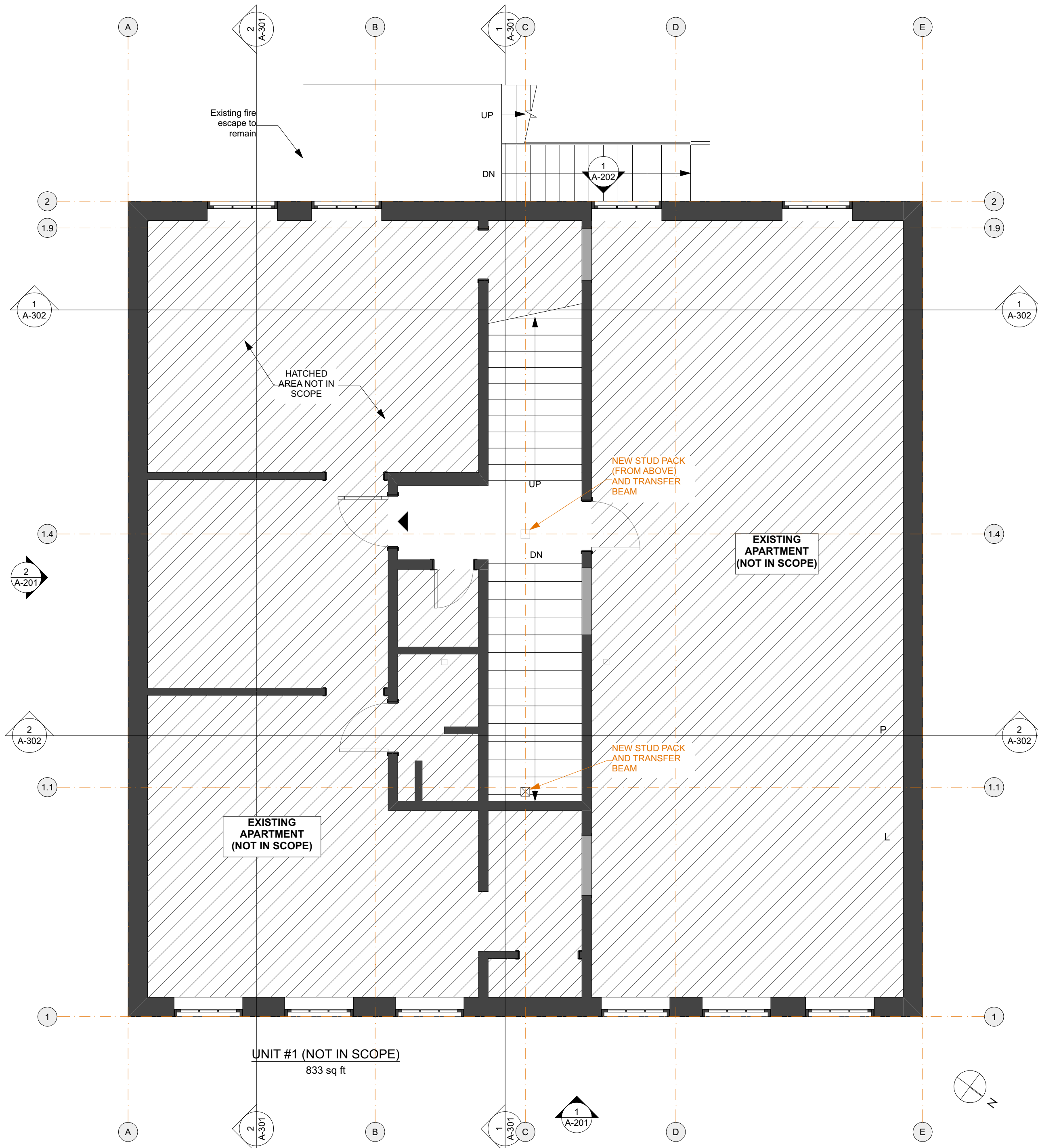
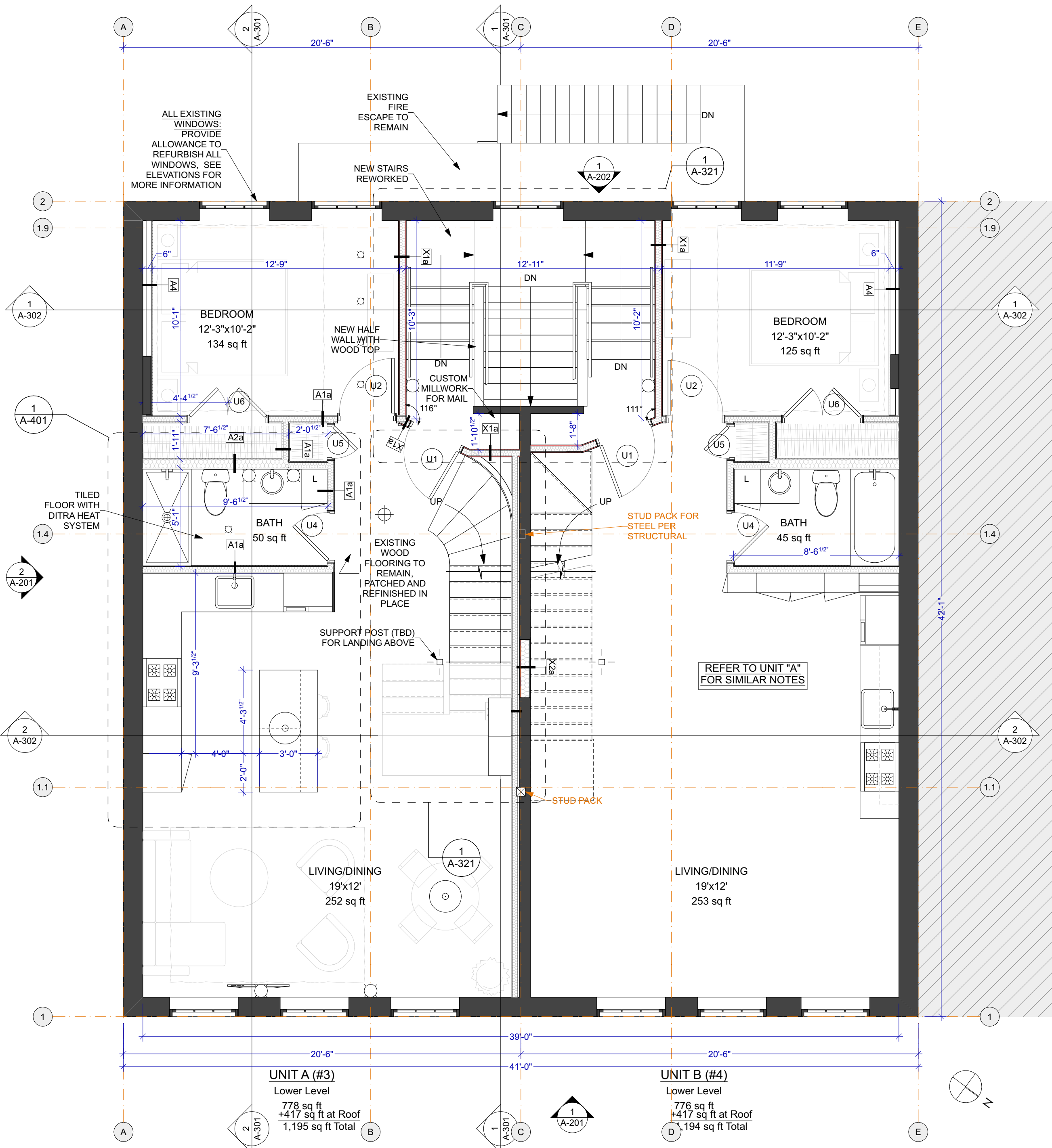


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- Plumbing Fixtures and Bathroom Accessories:** Refer to plumbing schedule on sheet A-601 for more information.
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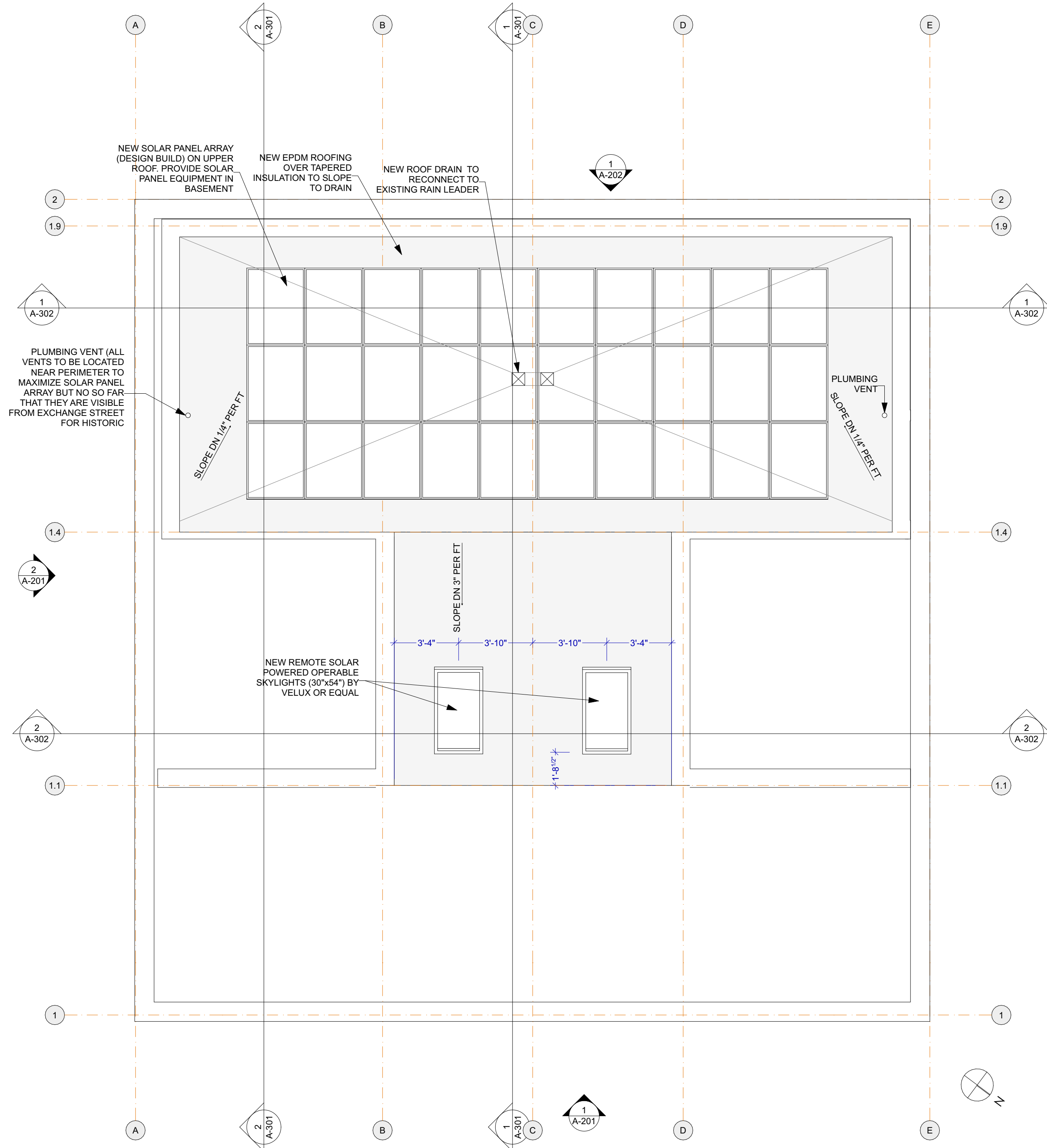


100% SCHEMATIC DESIGN GENERAL NOTES

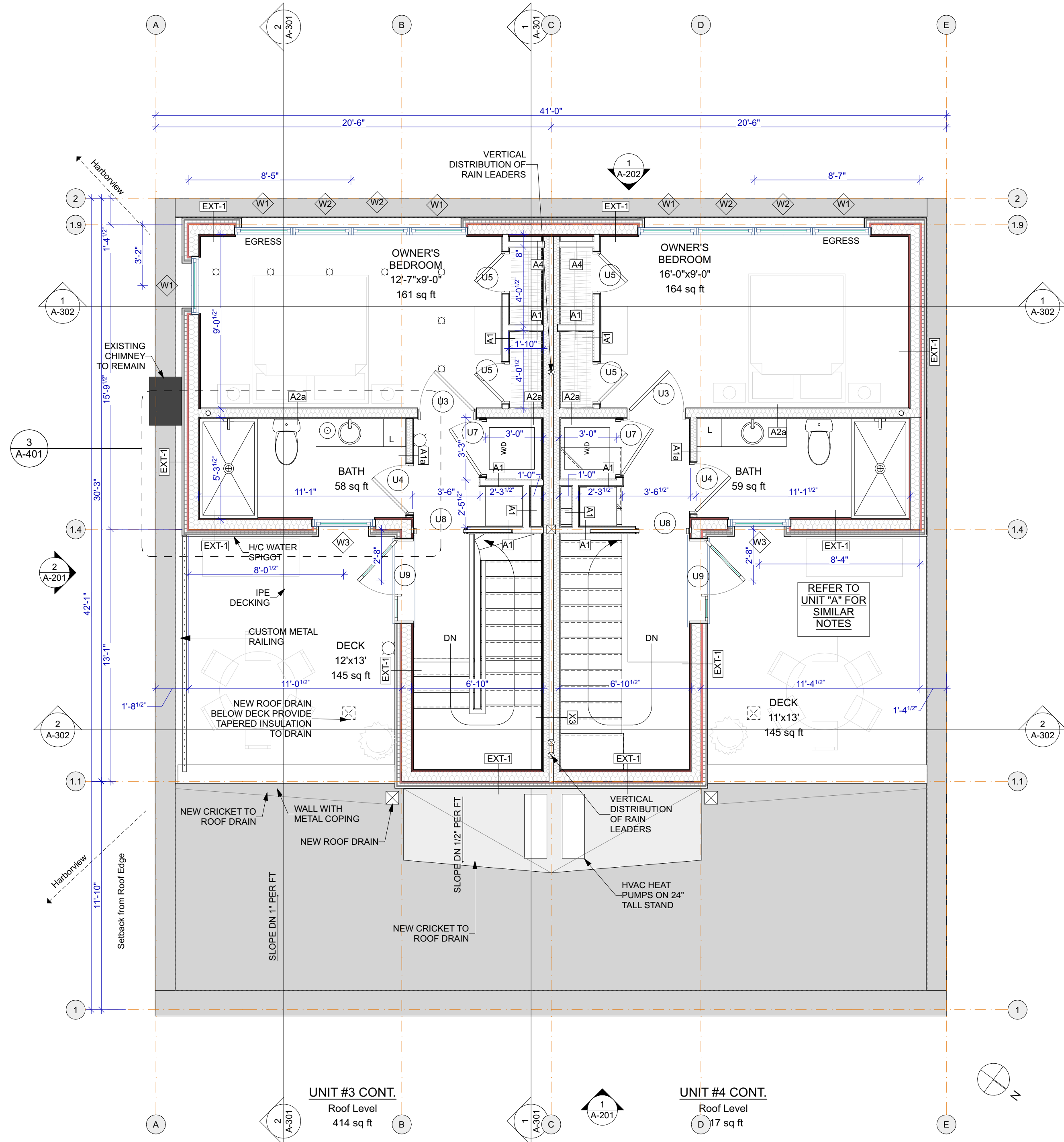
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Provide Finish Samples for: Wood veneers and solid wood with finishes per schedule, specialty tiles



2 UPPER ROOF
SCALE: 1/4" = 1'-0"



1 ROOF ADDITION PROPOSED
SCALE: 1/4" = 1'-0"

SUBMISSIONS:	ISSUE	DATE	DESCRIPTION	CHANGES THIS ISSUE:

PROGRESS SET
NOT FOR CONSTRUCTION

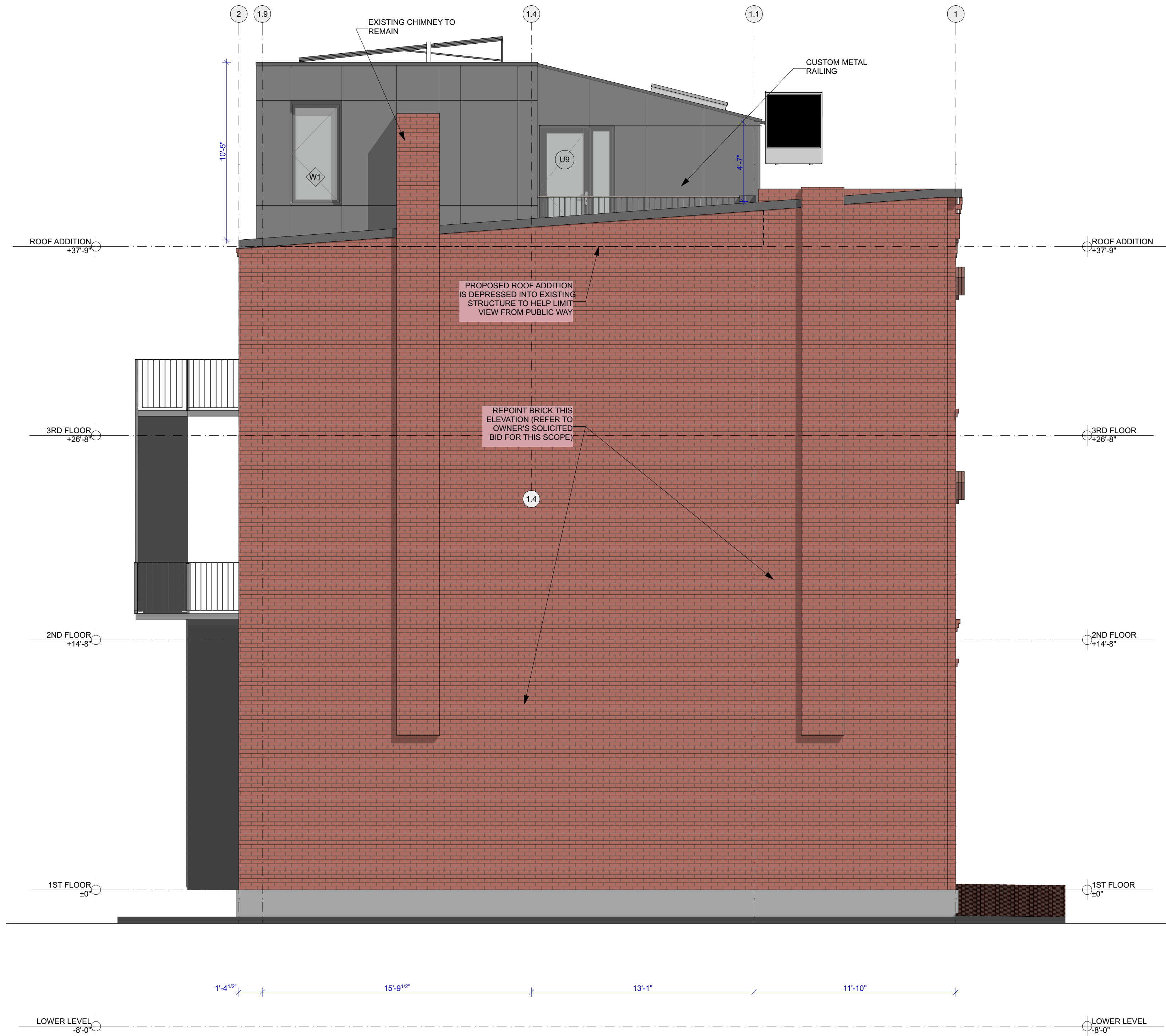
CJS PROJECT LEAD:
PB
DATE OF ISSUE:
06/10/2021
PROJECT STATUS:
Design Development

RESIDENCES AT 50
EXCHANGE STREET

4TH FLOOR & ROOF PLANS

A-103

BIMcloud: bimservers24.local - BIMcloud Basic for ARCHICAD 24/50 Exchange Street_CURRENT 20210525



2

SOUTH ELEVATION (ALLEY)
SCALE: 1/4" = 1'-0"

1

EAST ELEVATION (EXCHANGE STREET)
SCALE: 1/4" = 1'-0"

ELEVATIONS

RESIDENCES AT 50
EXCHANGE STREET

CUS PROJECT LEAD:
PB
DATE OF ISSUE:
06/10/2021
PROJECT STATUS:
Design Development

PROGRESS SET
NOT FOR CONSTRUCTION

SUBMISSIONS:		DATE	CHANGES THIS ISSUE:	
ISSUE	DESCRIPTION		ID	DESCRIPTION

CALEB JOHNSON
STUDIO
110 EXCHANGE ST. 2ND FLOOR, PORTLAND, ME 04101
207.253.8777
calebjohnsonstudio.com

1

WEST ELEVATION (PARKING LOT)
SCALE: 1/4" = 1'-0"



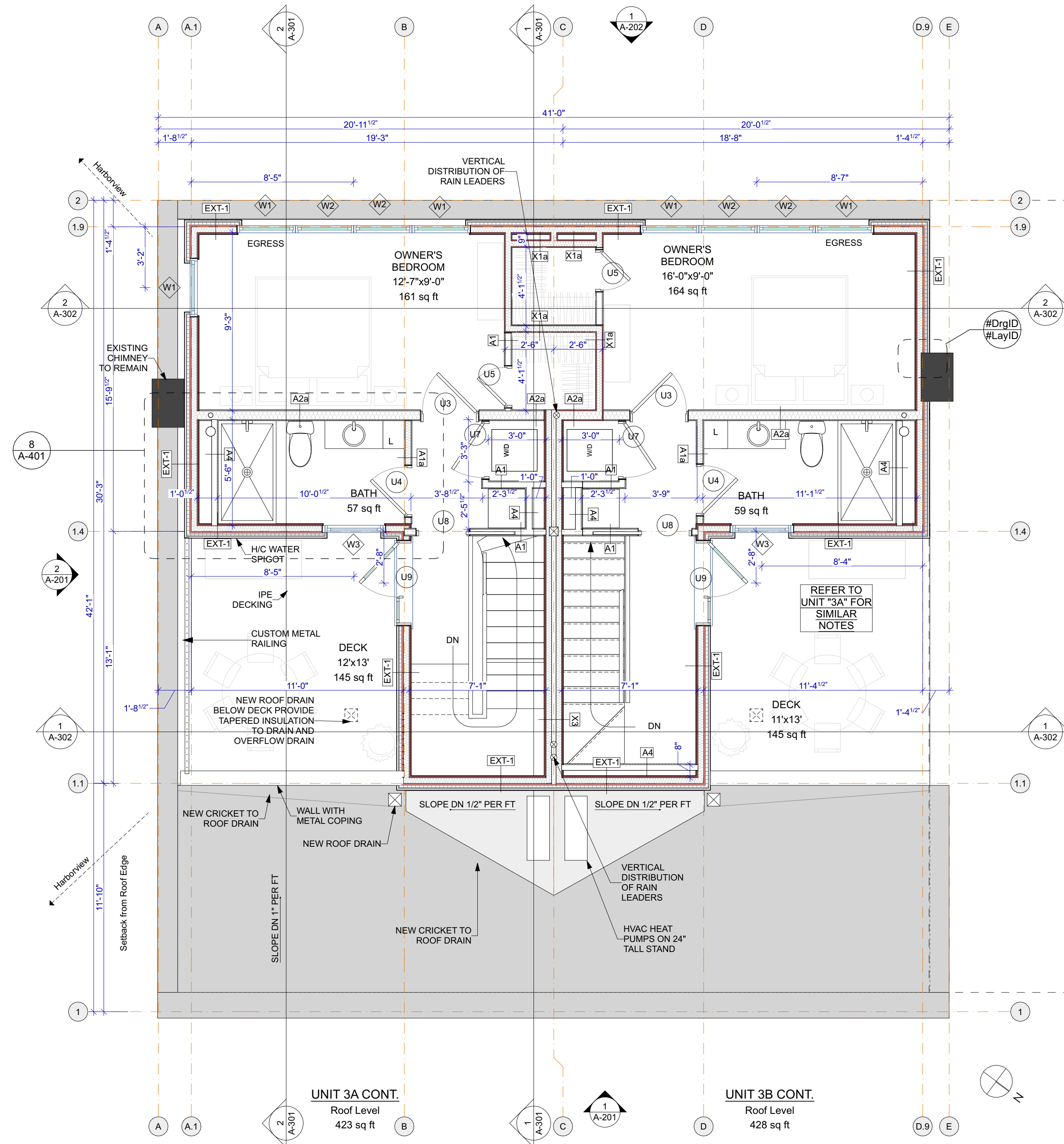
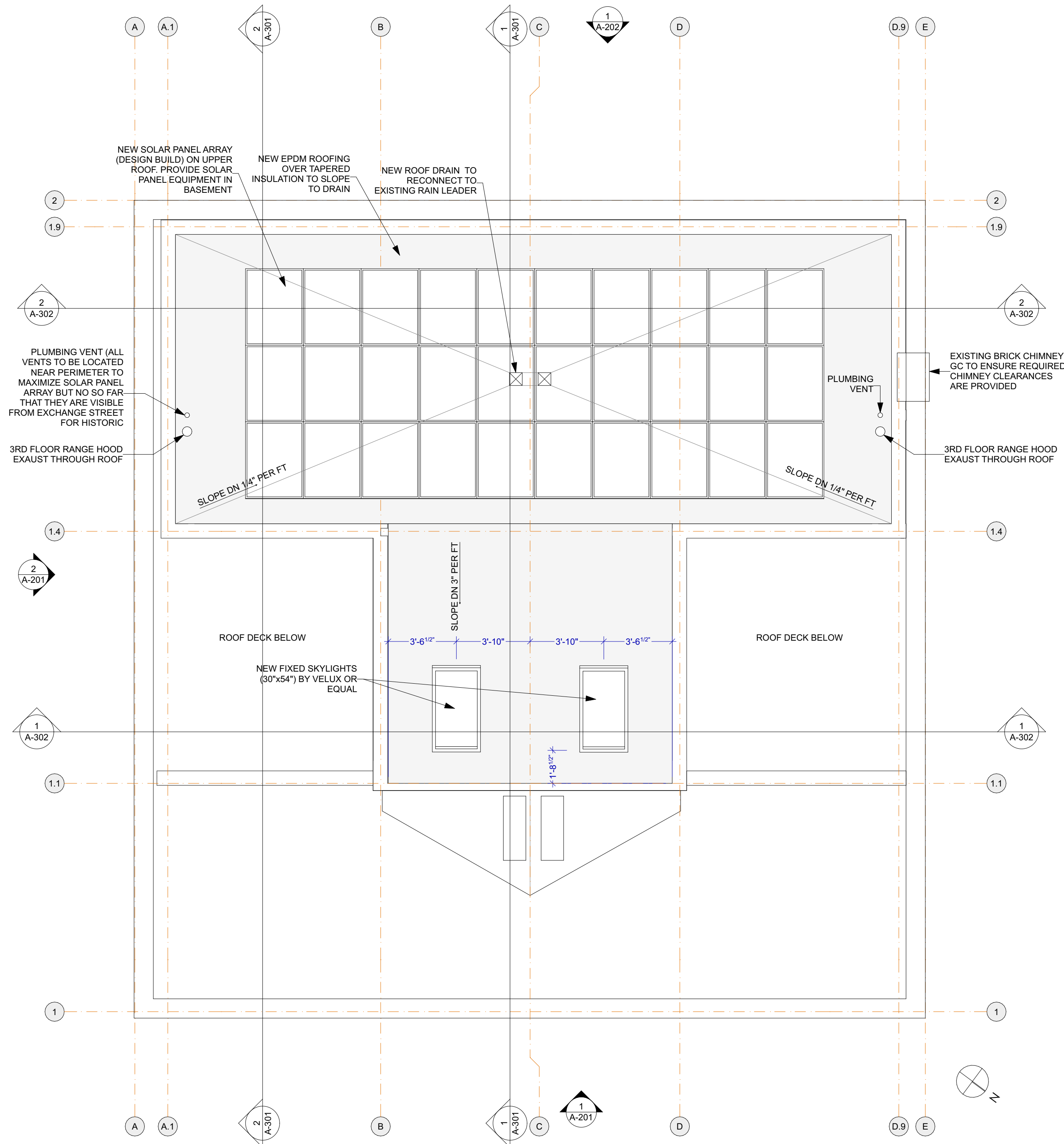
SUBMISSIONS:		CHANGES THIS ISSUE:	
ISSUE	DATE	ID	DESCRIPTION



FLOOR PLAN GENERAL NOTES

1. Drawing Set Status: These Drawings constitute a Building Permit Submission Set. Additional information, dimensions and specifications can be provided by the Architect and/or Owner at a later date or as requested.
2. Specifications: Refer to sheets G-003 & G-004 for Project Outline Specifications.
3. Dimensions: All floor plan dimensions are from face of core structure material, such as wood studs for all new construction elements, UNO. All dimensions referencing existing elements are from finished face, UNO.
4. Walls/Floors: See wall and floor type assemblies on A-601
5. Mechanical and Plumbing trades: The project Mechanical Engineer (Ripcord Engineering) had provided information for size and space requirements and locations for incoming service and has made selections where applicable. Contractor is to review and bring to the Architect's attention if additional information is required. Each trade contractor responsible to meet local code.
6. HVAC Basis of Design: Refer to Mechanical Engineering drawings included for more information.
7. Plumbing Fixtures and Bathroom Accessories: Refer to plumbing schedule on sheet A-601 for more information.

9. Automatic Sprinkler System: The sprinkler system is to be design-build by the electrical subcontractor. The entire building is to be provided with a new NFPA13 sprinkler system. It is expected a new fire line will be pulled from Exchange Street. Contractor to coordinate any additional requirements. The sprinkler contractor is responsible to obtain a sprinkler permit from the City of Portland.
9. Electrical and Lighting Basis of Design: Electrical work is to be design-build by the electrical subcontractor. Contractor is to refer to the basis of design power plans and RCPs for additional information (forthcoming in future submissions) Refer to RCP and Power Plans. Refer to lighting schedule for fixture selections.
10. Life Safety Devices: Refer to Code Analysis and Life Safety sheet G-001 for basis of design for locations and quantities of life safety equipment. Subcontractor responsible to meet state and local codes if in conflict with the basis of design shown.
11. Finishes and Furnishings: TBD, Forthcoming. Refer to Finishes and Furnishings Plan.
12. Millwork: TBD Forthcoming, contractor to carry allowances for custom millwork in sizes shown on the plans
13. WiFi and Networking: Refer to Power Plan on sheet E-111 for more information
14. Appliances: All appliances are to be Owner-Furnished, Contractor installed. Refer to sheet A-601 for basis of design selections.
15. Energy Efficiency: Refer to Outline Specification for energy efficiency strategies.





















FEATURES & SPECIFICATIONS

INTENDED USE

The **Lume II Architectural LED Contemporary Square Outdoor Wall Sconce** features a unique incline design that allows for a soft radiating down light that is ideal for egress, courtesy, and grace lighting. The Lume is the perfect complement for a variety of exterior wall surfaces and outdoor applications.

DETAILS

W 8.25" x **L** 8.25" x **D** 1"

Construction: Die Cast Aluminum with Polymeric Diffuser

Electrical: Comes with Interior Wiring

No Flicker AC Operation

Connects Directly to AC, No External Driver Needed

Lamp: LED Board

Lens: Glass Diffuser

ADDITIONAL FEATURES

Voltage: 120V

Wattage: 32W

Delivered Lumens: 615 lms

Total Lumens: 2400 lms

Color Temperature: 3000K

Dimming: ELV 100% - 10% *(Not Included)*

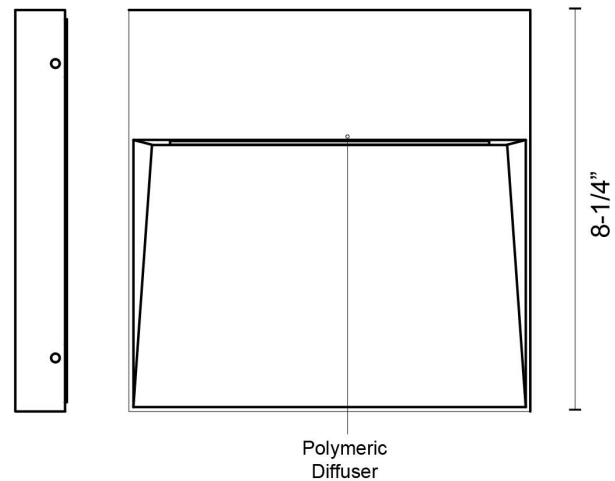
CRI: 90+

Life: L70 - 50,000 Hours

Listings: cETLus Listed

5 Year Warranty on LED

1 Year Warranty on Fixture



Ordering Information:

Example: (11245-BK)

Model	Finish
11245	BK
	Black
	GR
	Gray

L-011

The L-011 is an unobtrusive, directional fixture available in both low voltage and line voltage configurations. Its compact design brings attention to the lamp's effect, not to the fixture itself. The L-011 can be equipped with several different MR16 LED and halogen lamps and a variety of accessories to produce the desired effect.

Construction All brass components • 0.140" [3.6mm] thick brass housing

Lens Tempered glass, stepped to prevent pooling of water on lens

L-011 12 Volts AC/DC • Remote Transformer Required • Max 15W LED / 50W halogen
GU5.3 MR16 LED • Warm White (3000K)*
Dimming: Most lamps dim to less than 20%. See lamp manufacturer's transformer/dimmer compatibility chart.

Cree chipset 5 Watts	— 5W-SP	15° spot	320 lm
	— 5W-NFL	25° narrow flood	320 lm
	— 5W-FL	40° flood	320 lm
	— 5W-FL/60	60° flood	320 lm
	— 5W-WFL	100° wide flood	320 lm

Lumiled chipset 7 Watts	— 7W-NFL	25° narrow flood	483 lm
	— 7W-FL	40° flood	487 lm
	— 7W-WFL	60° wide flood	483 lm

Soraa chipset 8 Watts	— 8W-SP	10° spot	600 lm
	— 8W-NFL	25° narrow flood	630 lm
	— 8W-FL	36° flood	630 lm

L-011-120V 120 Volts GU10 MR16 LED • Warm White (3000K)*

L-011-230V 230 Volts Dimming: Most lamps dim to less than 20%. See lamp manufacturer's transformer/dimmer compatibility chart.

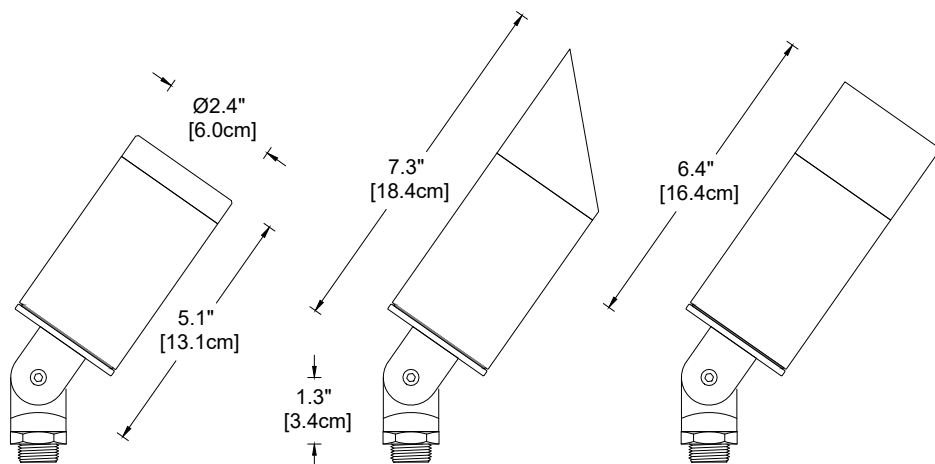
Soraa chipset 8 Watts	— 8W-SP	10° spot	600 lm
	— 8W-NFL	25° narrow flood	630 lm
	— 8W-FL	36° flood	630 lm
	— 8W-WFL	60° wide flood	630 lm

* Also available in 2700K. Add color suffix to lamp specification, e.g. "5W-NFL-2700K"

Optical Accessories

— BGS	Brass glare shield, 45° cutoff
— BGFS	Brass glare shield, full cutoff with weep hole
— CTO-1/4-2.04	Color Temperature Orange filter 1/4
— CTO-1/2-2.04	Color Temperature Orange filter 1/2
— CTO-3/4-2.04	Color Temperature Orange filter 3/4
— FR	Frosted lens, 1/8" [3mm] thick
— HL1	Honeycomb louver, 1/8" [3mm] thick
— HL2	Honeycomb louver, 1/4" [6mm] thick
— PR	Prismatic spread lens, 1/8" [3mm] thick
— RT	Rectilinear spread lens, 1/8" [3mm] thick
— SL	Solite (Soft Focus) lens, 1/8" [3mm] thick

Maximum (2) 1/8" thick accessories or (1) HL2 + (1) CTO Filter



L-011



L-011 with BGS Accessory



L-011 with BGFS Accessory



SUITABLE FOR INDOOR
USE UP TO 15W LED /
20W HALOGEN

L-011

Mounting Accessories

1/2" male threads mount into any standard j-box or:

- ___ **GS2** Heavy-duty ground spike
- ___ **GS2BC** Heavy-duty ground spike with cast brass cap
- ___ **GS3R** Heavy-duty ground spike with brass cap for telescoping fixture riser
- ___ **GS4** *Standard ground spike with cast brass cap
- ___ **JB** Cast brass junction box
- ___ **SA** Sure Aim locking rotation accessory (not available with **STEM-S**)
- ___ **STEM-C-___** Brass riser for applications where fixture is directed UPWARD (4"/10cm, 8"/20cm, 12"/30cm, 16"/40cm, 20"/51cm or custom height—specify in inches)
- ___ **STEM-S-___** Brass riser for applications where fixture is directed DOWNWARD, such as lighting for steps (8"/20cm, 12"/30cm, 16"/40cm, 20"/51cm or custom height—specify in inches).
- ___ **TDM1** *Brass tree/deck mount with stainless steel screws
- ___ **TDM2-___** *Brass tree mount with nylon strap (48, 72, or 96")
- ___ **TDM2SS-___** *Brass tree mount with stainless steel strap (48, 72, or 96")
- ___ **TDM3** *Brass low-profile deck/wall mount (SA accessory recommended)
- ___ **TDM4** *Brass low-profile tree mount with notch for wire (SA accessory recommended)
- ___ **TMJB-___** Brass tree-mounted junction box, single fixture mount, stainless steel strap (48, 72, or 96")
- ___ **TMJB2-___** Brass tree-mounted junction box, double fixture mount, stainless steel strap (48, 72, or 96")
- ___ **TMJBX** Brass tree-mounted junction box, single fixture mount, stainless steel screws
- ___ **TMJB2X** Brass tree-mounted junction box, double fixture mount, stainless steel screws

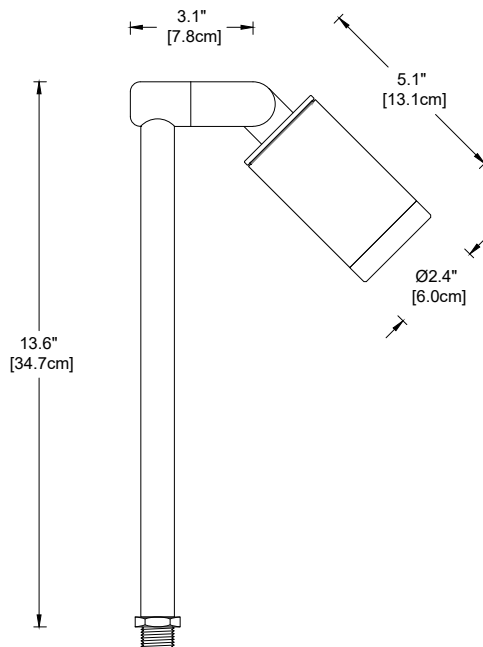
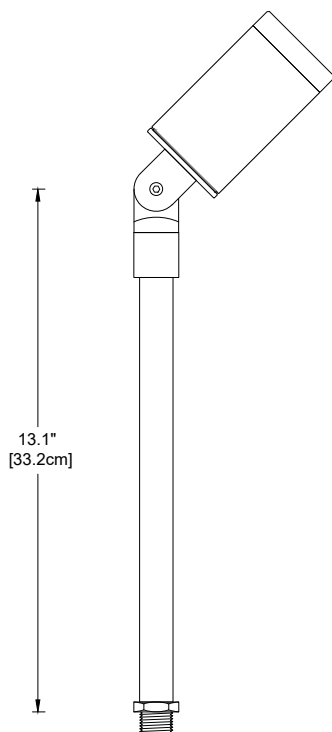
* These accessories for 12 Volt only



L-011-STEM-C-12



L-011-STEM-S-12



Fixtures shown on 12-inch stems

Finish: Unfinished is standard; no specification required. The fixture will weather to a natural patina. The patina process is natural with brass and copper. Rate of patina and eventual color is dependent upon climate and proximity to the ocean. Thus, Beachside does not guarantee any specific appearance.

Weight: 2.6 lbs. [1.2 kg]
(excludes Mounting Accessories)

IP 66
CSA Listed, file #190030
10 year fixture warranty
3 year warranty on MR16 LED lamps

Project	By	Date
For ordering purposes, please specify (example: L-011-120V-8W-NFL-BGS-CTO-1/2-2.04-HL1-GS2-STEM-C-12)		
L-011-		
Fixture	Lamp	Accessory
	Accessory	Accessory
	Accessory	Accessory
	Accessory	Accessory



**HISTORIC PRESERVATION BOARD
CITY OF PORTLAND, MAINE**

**PUBLIC HEARING
144 & 148 STATE STREET**

TO: Chair Pollard and Members of the Historic Preservation Board
FROM: Deb Andrews, Historic Preservation Program Manager
DATE: August 6, 2021
RE: August 11, 2021 **PUBLIC HEARING**

Application for: **Certificate of Appropriateness for Comprehensive Program of Site Improvements**

Address: 144 & 148 State Street (Mercy Hospital property, including Winter Street frontage)

Applicant: New Height Redfern LLC.

Landscape Architect: Nick Aceto, Aceto Landscape Architects

Introduction

Landscape architect Nick Aceto and representatives of New Height Redfern LLC have requested final review and approval of a comprehensive program of site improvements planned as part of the redevelopment/adaptive reuse of the Mercy Hospital property, which includes frontage on State, Spring and Winter Streets. This is the final component of the applicant's overall master development plan for the property, which calls for the rehabilitation and adaptive reuse of the Mercy Hospital building itself and the Morrison House immediately north of the hospital at 148 State as well as the construction of two affordable housing developments along the Winter Street frontage of the lot.

The Historic Preservation Board held a workshop on the proposed site improvements on June 23rd, at which Board members identified a number of questions and concerns for further consideration. The Planning Board has also conducted a preliminary review of the proposed site improvements in conjunction with its review of the reuse of the hospital and Morrison House. As well, additional discussions have been held with neighborhood representatives since the Board's June workshop. As such, the enclosed final proposal reflects input from key stakeholders with respect to both functional requirements and aesthetic considerations.

Enclosed for the Board's review is a cover letter from landscape architect Nick Aceto which summarizes the changes made since the June 23rd workshop, most of which were made in response to HP Board feedback. Mr. Aceto has also updated the project narrative that describes the general design intent and approach taken to create a cohesive campus and at the same time respond to the character of abutting city streets.

The submitted renderings now include two additional renderings for the Board's review: 1) a rendering of the Spring Street frontage to better illustrate how this entry to the interior of the block is being treated; and 2) a rendering of the proposed site treatment around the Morrison House, including modifications to the existing recessed storage area between Morrison House and the hospital. Plans, additional details and specifications are provided as well. Finally, the final proposal includes information about site lighting, including photometrics, which is required for site plan review.

Summary of Board Questions and Comments at 6/23 Workshop

At the June workshop, Board members appeared to be generally supportive of the overall proposal, particularly of the woonerf and plaza treatment proposed for the interior of the block. That said, Board, staff and members of the public raised the following questions and concerns:

- The site improvement program did not address the Morrison House, which is a significant historic property on State Street and warrants attention as part of the overall project. It was also noted that the rear of the Morrison House property adjoins the woonerf and therefore warranted further consideration.
- The "pit" or recessed storage area located between the hospital building and Morrison House, which is to remain, represents an incongruous intrusion in the State Street streetscape and was not addressed in the site improvement program. The applicant was asked to include measures to mitigate this feature's negative visual impact.
- A suggestion was made to soften the area around the rear entrance to the Senior Housing Development as well as the rear edge of the woonerf.
- The planting scheme in front of the hospital building was questioned, particularly the spacing and species of the trees. It was felt that the treatment should reinforce the more formal, orderly character of the building.
- Modifications were suggested for the site treatment in front of Mercy's State Street entry. Board members recommended that the benches shown immediately abutting the stairs be separated from the stairs in order to retain the original appearance of the stairs. Also, Board members questioned whether the proposal to locate a series of benches along the hospital frontage was appropriate, given the existing streetscape character of State Street.
- The landscape architect was encouraged to rethink the use of ornamental grasses along the Spring Street edge of the property and consider a more contextual plant

- material palette given the site's location within the West End Historic District.
- Board members requested additional information about the site treatment proposed for the Winter Street frontage.
- Additional information was requested about proposed lighting within the site.

Final design proposal, Response to Board Feedback

In his cover memo, landscape architect Nick Aceto itemizes the revisions made in response to the Board's comments—see Attachment 1. As these are described in Mr. Aceto's letter, there is no need to repeat them here.

Staff Comments

The applicant's final proposal appears to be responsive to the comments and questions raised at the June workshop. The submission includes a high level of detail and the renderings provided are especially helpful in understanding the relationship of the proposed site improvements to the development's surrounding context.

In staff's view, the final design proposal is successful in both responding to the existing character of the Mercy property's various street frontages (each of which has its own character) *and* in establishing a distinct, contemporary and visually cohesive treatment for the interior of the lot which will provide significant amenities for residents of the abutting buildings. And because the interior of the lot has been designed as semi-public open space, these high-quality site improvements will also be a benefit to the neighborhood.

Applicable Ordinance Review Standards (from Standards for Review of Alterations)

- (9) *Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant cultural, historical, architectural or archeological materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the size, scale, color, material and character of the property, neighborhood or environment.*

Attachments:

1. Cover letter from landscape architect
2. Project narrative
3. Renderings
4. Plan views, details and specifications
5. Lighting plan
6. Photometrics



August 05, 2021

Attn: Deb Andrews
Historic Preservation Program Manager
City of Portland, ME

RE: Mercy Hospital Redevelopment Site and Landscape Design Approach Revisions

Aceto Landscape Architects is pleased to submit this revised site and landscape design package for Historic Preservation Board review and Final Hearing to take place on August 11, 2021.

We received constructive feedback from the board during our last HPB workshop in July, and while much of the major plan elements have remained unchanged, we have focused our efforts on several key revisions, including the following:

- Landscape design for Morrison House
- Landscape treatments in and around the recessed storage area
- Refined planting treatment along State Street, including careful consideration for existing heritage trees and direct coordination with Jeff Tarling, City Arborist and careful consideration of tree placement along building facade
- Revised State Street entry, including refinement of stair layout and reduction of stone benches
- Revised planting treatment along Spring Street frontage to indicate 'woody' plant material, creating a more appropriate streetscape transition to the Historic District
- Updated photometric plan
- Revised graphics and visual exhibits

Additionally, please find attached narrative describing general design intent and description of key site features as well as the required notice of public hearing certification letter.

We look forward to yours and the board's feedback and approval on the 11th!

Thank you,

A handwritten signature in black ink, appearing to read 'Nick Aceto'.

Nick Aceto
Landscape Architect
Aceto Landscape Architects
na@acetola.com
207-221-3390 (ME Office)

Attachment:



August 05, 2021

Attn: Deb Andrews
Historic Preservation Program Manager
City of Portland, ME

RE: Mercy Hospital Redevelopment Site and Landscape Design Approach

Our vision for the Mercy Hospital Redevelopment site and landscape centers around recapturing the interior block space as an activated, pedestrian-oriented zone which utilizes form, pattern and materiality to stitch together the four redevelopment parcels.

The interior block has been conceptualized as a 'woonerf' or 'shared street' whereby people and vehicles are permitted to share space. The woonerf is designed specifically with human-scale in mind, incorporating changes in material, and site elements designed to blur the lines between the pedestrian and vehicular realms. This blurring of lines provides a sense of friction which naturally slows everyone down. Furthermore, maintaining a flush ground plane across the space eliminates accessibility barriers and allows the finished surface to become a unifying element between the various development sites and spaces. The edge conditions will incorporate fixed seating elements, bollards, planters, and lighting fixtures to create permeable barriers between the mixing zones and dedicated pedestrian space.

Working our way from the block interior out to the streetscape, our plan is to incorporate more planting and soft edges. Where the woonerf and activated courtyard spaces meet the street and public realm, planting helps soften transitions in grade and gently demarcate public and private space, buffer views, and provide a sense of soft separation. Along the building facades, planting beds are designed to create a layered effect, resolving building scale to the street and helping ground the buildings in the site, softening elevational transitions and gently screening private spaces and framing entryways.

Trees are used throughout the site with careful consideration for wind, sun, and chloride exposure. Our philosophy has been to select the right tree for the right place. Where space is limited against buildings we are utilizing columnar and upright cultivars which can provide a complementary sense of scale and rhythm to the building architecture and fenestration. Our general approach to planting is to utilize a native palette and incorporate larger massings to match the scale of the buildings and create a sense of continuity along the streetscape. Where planting is incorporated in closer proximity to activated pedestrian zones and courtyard spaces, more perennial and finely textured material is utilized.

Overall, our approach to the site and landscape is one which seeks to honor and respect the integrity of the historic structures and vernacular while incorporating elements relevant to today's demands on landscape and public spaces. A successful site design, to us, is one that is easily manageable, active and well utilized for formal and informal gathering, and presents an attractive and alluring sense toward the public realm.

I look forward to yours and the boards feedback!

Nick Aceto
Landscape Architect
Aceto Landscape Architects
na@acetola.com
207-221-3390 (ME Office)

Attachment: Supplemental Perspective View of Winter Street Courtyard/Alley

MERCY REDEVELOPMENT | NOTICE OF PUBLIC HEARING CERTIFICATION LETTER



July 30, 2021

Planning Division
City of Portland, Maine
389 Congress Street, 4th Floor
Portland, ME 04101

Subject: 144 State Street Notice of Public Meeting Signs

I, Nick Aceto, hereby certify that two (2) Notice of Public Meeting signs were posted on July 30, 2021, prior to the August 11, 2021, Historic Preservation Board hearing. The signs are posted facing each of Winter Street and State Street and related to the NewHeight Redfern, LLC proposed redevelopment of the Mercy hospital and Morrison House buildings (HPBR-001501-2021) located at 144 State Street in Portland. Pictures of the signs are shown below.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Aceto', is positioned above the typed name.

Nick Aceto
Landscape Architect
na@acetola.com
207-221-3390 (ME Office)



Attachment:



















REVISIONS	DATE
LEVEL III SITE PLAN	11.09.2020
LEVEL III SITE PLAN	05.25.2021
HISTORIC REVIEW	07.09.2021
LEVEL III SITE PLAN	07.21.2021
HISTORIC REVIEW	07.26.2021



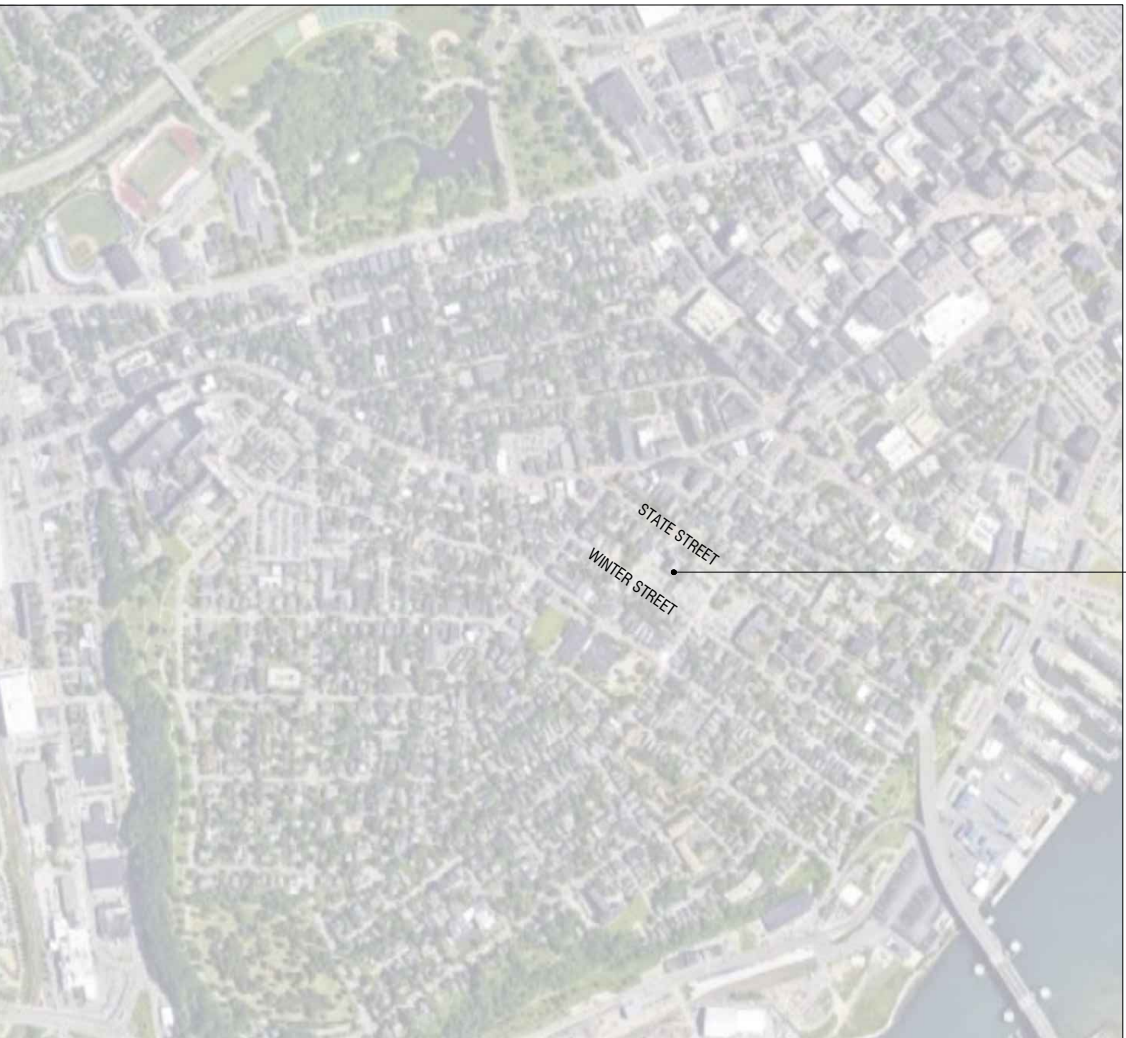
CONCEPT SKETCH

07.26.2021 HISTORIC REVIEW
07.21.2021 LEVEL III SITE PLAN
07.09.2021 HISTORIC REVIEW
05.25.2021 LEVEL III SITE PLAN
11.09.2020 LEVEL III SITE PLAN
09.10.2020 LEVEL III SITE PLAN

SHEET INDEX
LANDSCAPE DRAWINGS

■	■	■	■	■	L0-00	COVER SHEET
■	■	■	■	■	L0-01	NOTES
■	■	■	■	■	L1-00	LAYOUT PLAN
■	■	■	■	■	L2-00	MATERIALS PLAN
■	■	■	■	■	L3-00	PLANTING PLAN
■	■	■	■	■	L4-00	DETAILS
■	■	■	■	■	L4-01	DETAILS
■	■	■	■	■	L4-02	DETAILS
■	■	■	■	■	L4-03	SITE FURNISHINGS
■	■	■	■	■	L4-04	SITE FURNISHINGS
■	■	■	■	■	L4-05	SITE FURNISHINGS

VICINITY MAP:





PREPARED FOR

E DATE

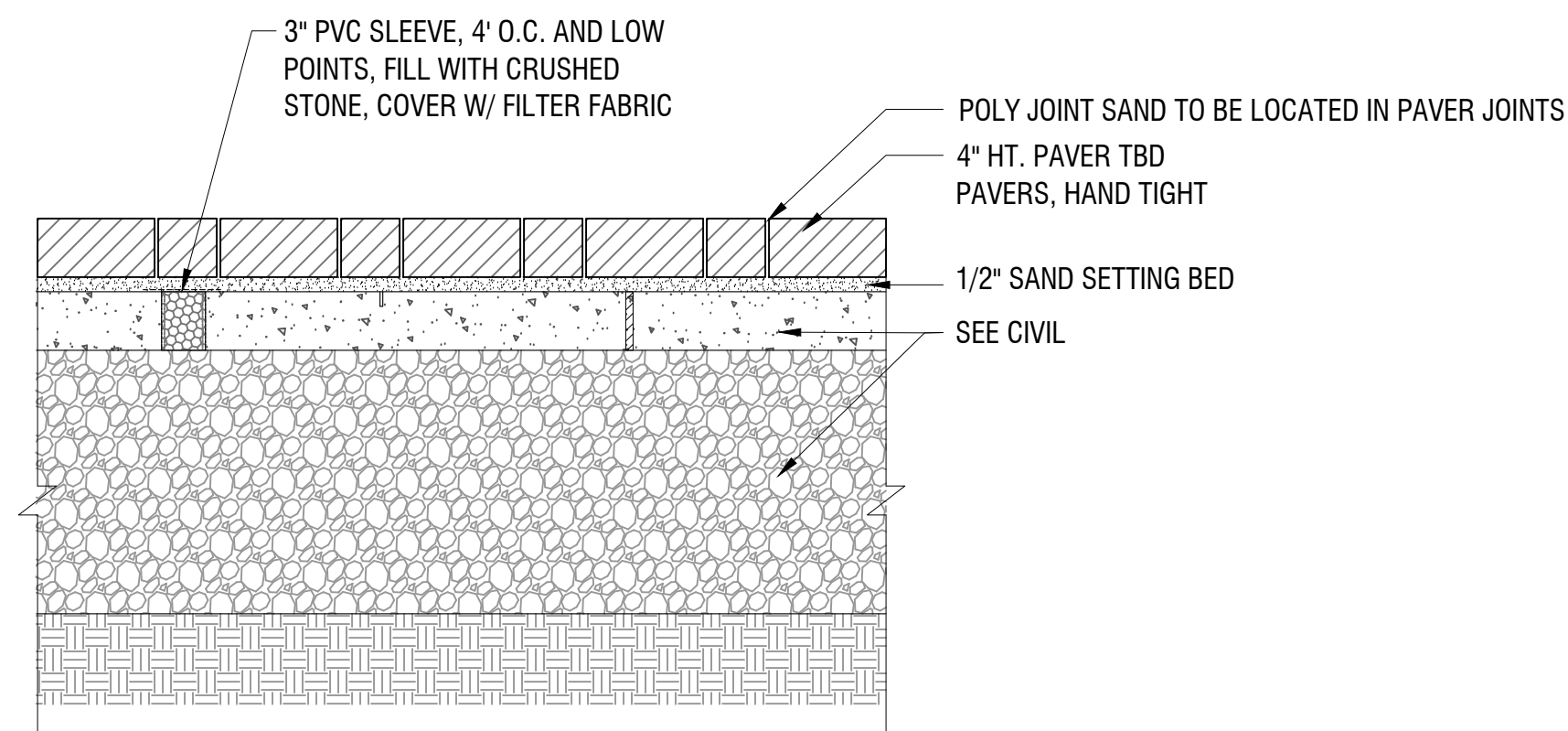
ET TITLE

ET INFORMATION

NOT ISSUED FOR
CONSTRUCTION



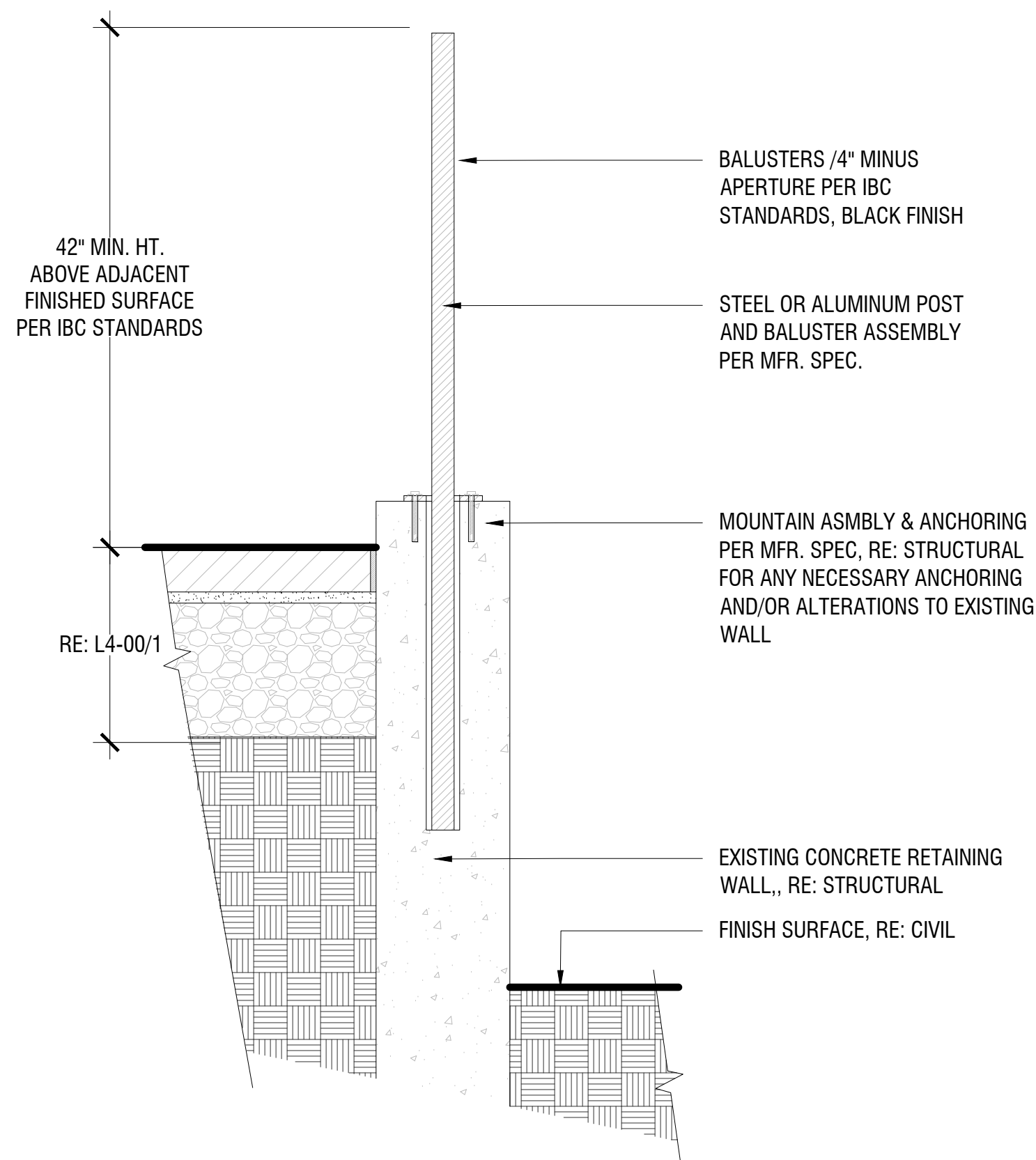
1.0	PAVEMENTS, RAMPS, CURBS		DETAIL / SHEET	6.0	RAILINGS, BARRIERS, FENCING		DETAIL / SHEET
	1.1	PAVERS - TBD	1/L4-00		6.1	HANDRAIL	1/L4-01
	1.2	PAVERS - STRIPING PARKING	1/L4-00				
2.0	JOINTING			7.0	SITE LIGHTING		
	X.X	NOT USED AT THIS TIME	X/XX-XX		BY OTHERS		
3.0	STEPS			8.0	DRAINAGE		
	X.X	NOT USED AT THIS TIME	X/XX-XX				
4.0	SITE WALLS/ EMBANKMENTS			9.0	PLANTING AND LANDSCAPE		
	3.1	GRANITE STEPS	2/L4-01		9.1	DECIDUOUS TREE PLANTING	1/L4-02
	4.1	MASONRY WALL - FINISH TBD	3/L4-00		9.2	MULTI-STEM TREE PLANTING	2/L4-02
5.0	SITE FURNITURE			10.0	MISCELLANEOUS ELEMENTS		
	4.2	GUARD RAILING	2/L4-00		9.3	SHRUB PLANTING	3/L4-02
	5.1	GRANITE BENCH	1/L4-03		9.4	PERENNIAL PLANTING	4/L4-02
	5.2	SOLID EDGE SYSTEM - STREETLIFE	2/L4-03		9.5	STEEL EDGING	5/L4-02



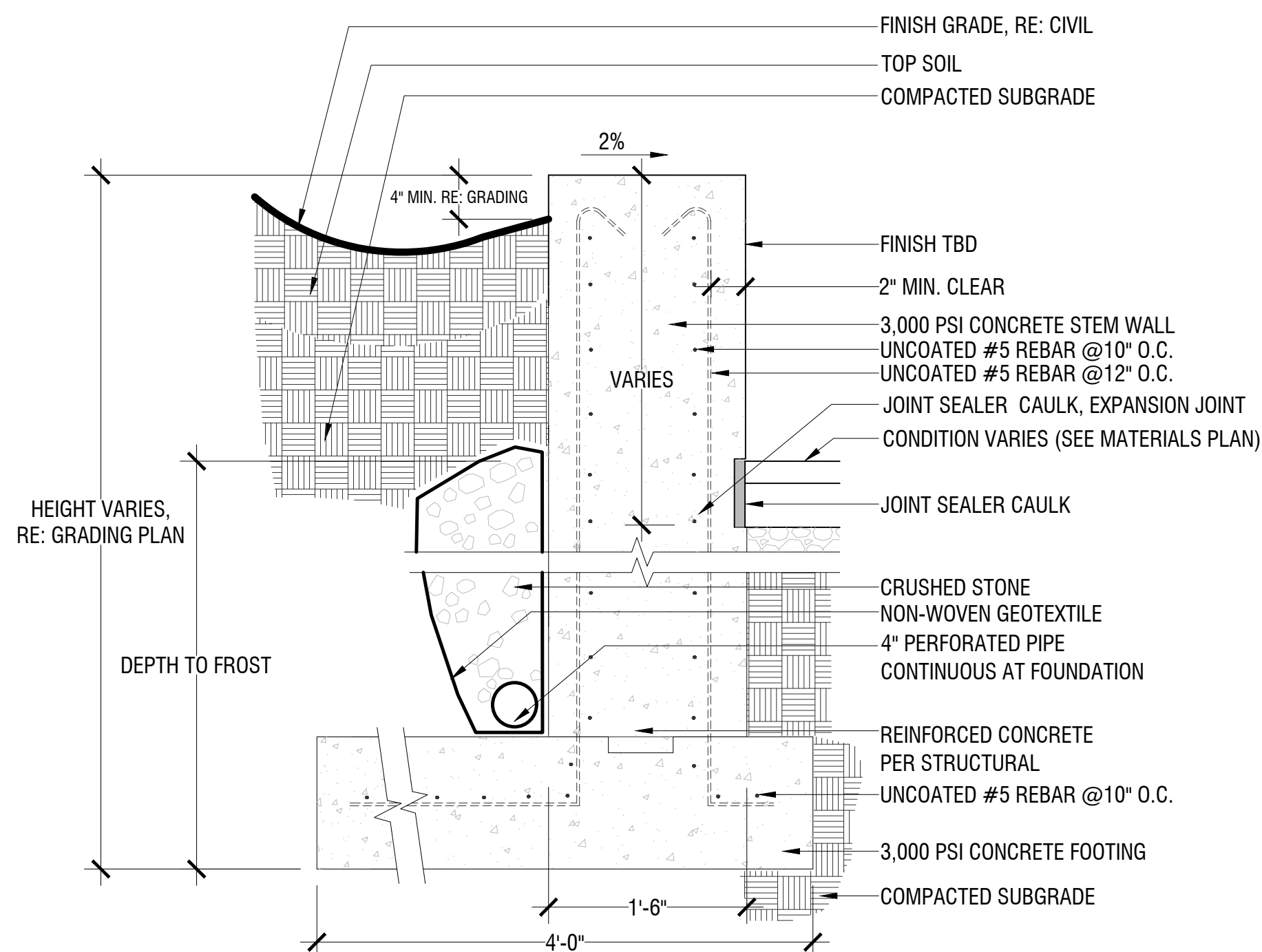
NOTES:

1. METAL EDGE RESTRAINT TO BE USED WHERE PAVERS MEET PLANTING AREAS

1 CONCRETE PAVER - TBD 1.1
1":1'-0"



2	GUARD RAILING 1": 2'-0"	4.2
----------	--	----------------



3 MASONRY WALL 1":1'-0" 4.1



EAL

PROJECT TITLE

MERCY
144 STATE STREET
PORTLAND, ME

REPAIRED FOR

REVISIONS	DATE
LEVEL III SITE PLAN	11.09.2020
LEVEL III SITE PLAN	05.25.2021
HISTORIC REVIEW	07.09.2021
LEVEL III SITE PLAN	07.21.2021
HISTORIC REVIEW	07.26.2021

SUE DATE

LEVEL III SITE PLAN
SEPTEMBER 10, 2020

SHEET TITLE

ITE DETAILS

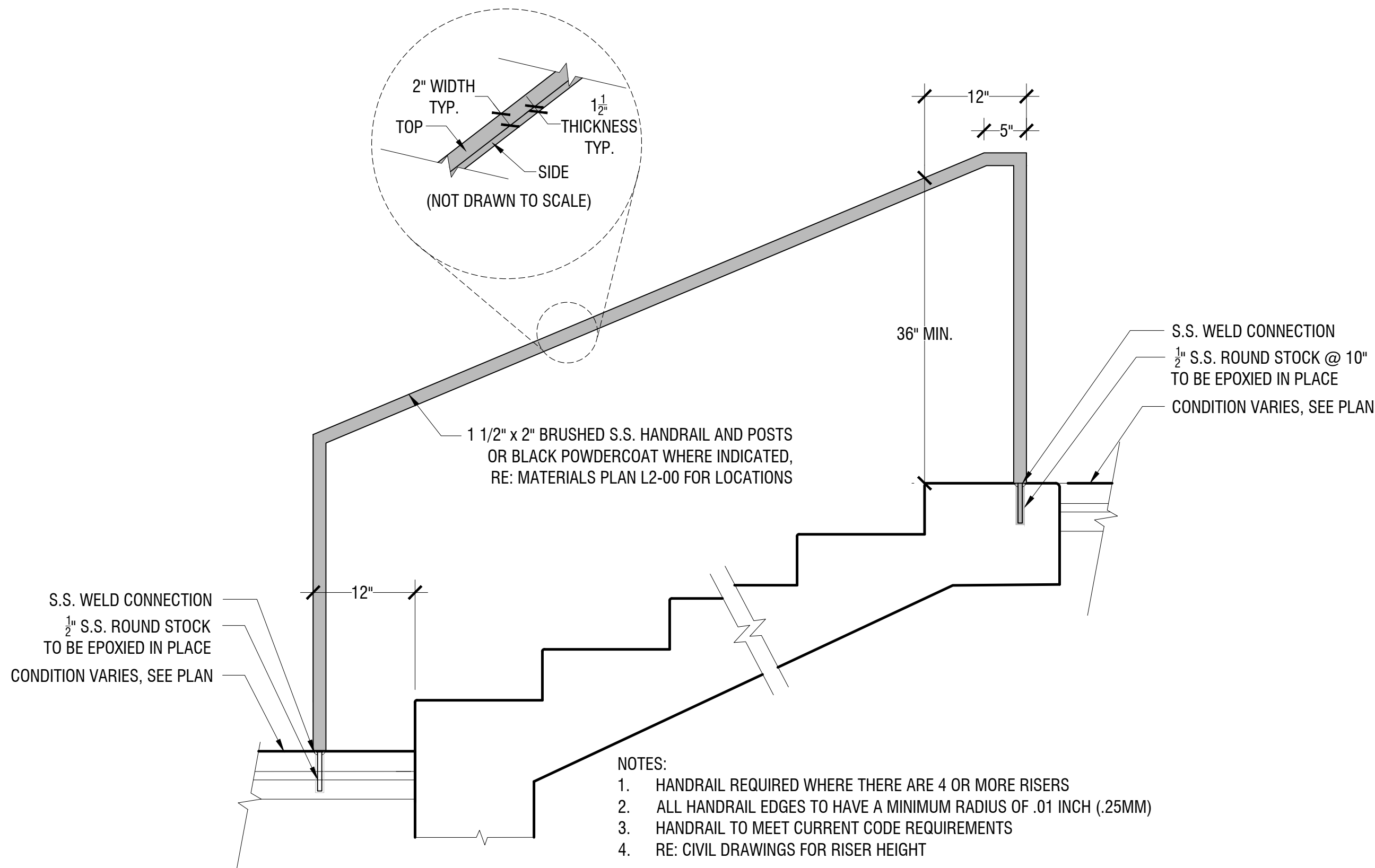
SHEET INFORMATION

4-00

PERMIT LEVEL
NOT ISSUED FOR
CONSTRUCTION

SITE KEYNOTES:

1.0	PAVEMENTS, RAMPS, CURBS	DETAIL / SHEET	6.0	RAILINGS, BARRIERS, FENCING	DETAIL / SHEET
1.1	PAVERS - TBD	1/L4-00	6.1	HANDRAIL	1/L4-01
1.2	PAVERS - STRIPING PARKING	1/L4-00			
2.0	JOINTING		7.0	SITE LIGHTING	
X.X	NOT USED AT THIS TIME	X/XX-XX	8.0	DRAINAGE	
			X.X	NOT USED AT THIS TIME	X/XX-XX
3.0	STEPS		9.0	PLANTING AND LANDSCAPE	
3.1	GRANITE STEPS	2/L4-01	9.1	DECIDUOUS TREE PLANTING	1/L4-02
			9.2	MULTI-STEM TREE PLANTING	2/L4-02
4.0	SITE WALLS/ EMBANKMENTS		9.3	SHRUB PLANTING	3/L4-02
4.1	MASONRY WALL - FINISH TBD	3/L4-00	9.4	PERENNIAL PLANTING	4/L4-02
4.2	GUARD RAILING	2/L4-00	9.5	STEEL EDGING	5/L4-02
5.0	SITE FURNITURE		10.0	MISCELLANEOUS ELEMENTS	
5.1	GRANITE BENCH	1/L4-03	10.1	BIKE RACK - STREETLIFE CorTen	1/L4-04
5.2	SOLID EDGE SYSTEM - STREETLIFE	2/L4-03	10.2	TREE GRILLE - STREETLIFE CUSTOM 5' X 18'	2/L4-04
			10.3	TREE GRILLE - STREETLIFE 5' x 5'	2/L4-04
			10.4	TREE GRATE - NENNAH MODEL R-8810	3/L4-04
			10.5	WASTE DISPOSAL CONTAINERS	1/L4-05
			10.6	BOLLARD - STREETLIFE OPEN BOLLARD	1/L4-05



1

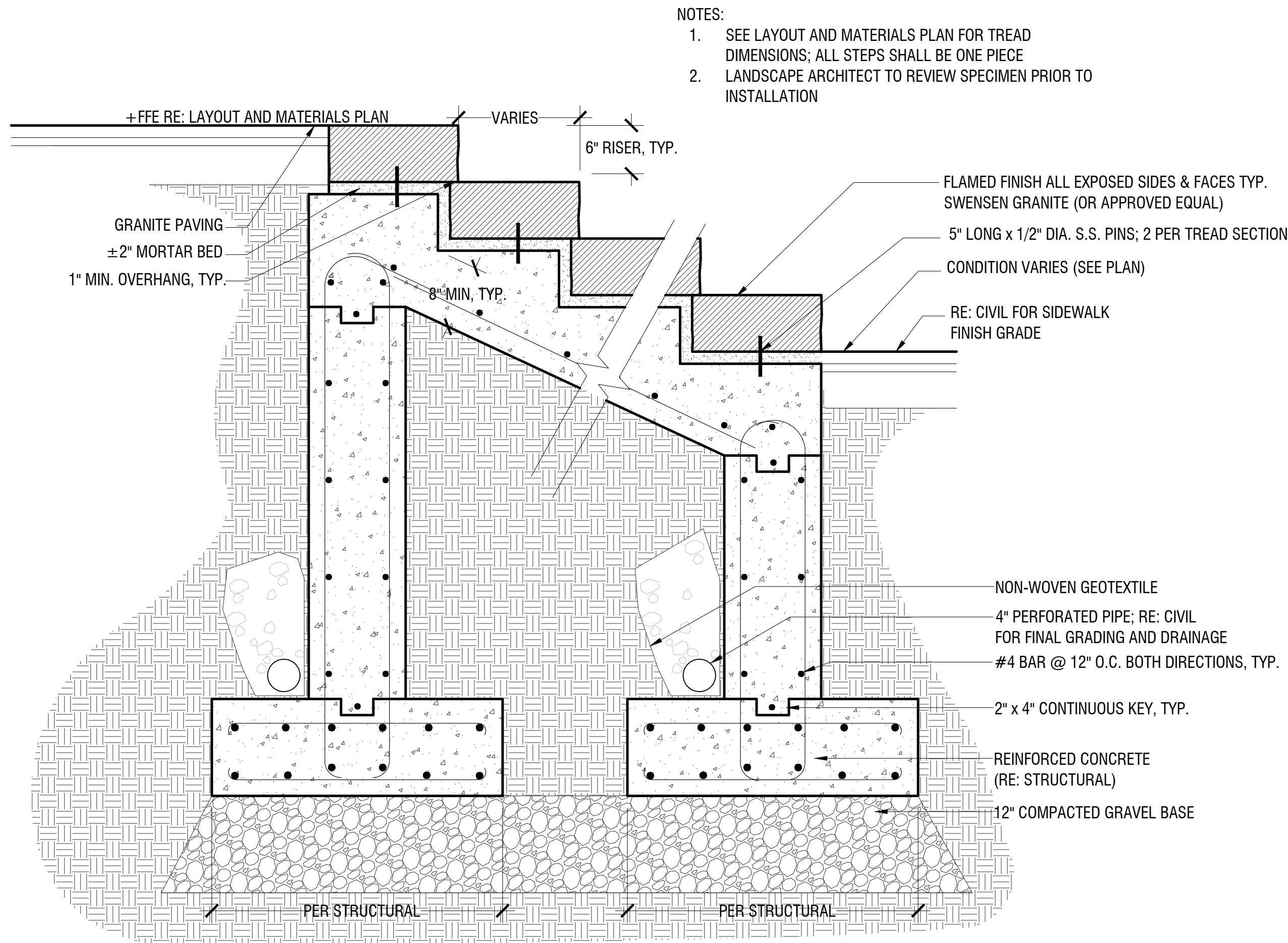
HANDRAIL
1":1'-0"

6.1

2

GRANITE STEPS
1":1'-0"

3.1



- NOTES:
- SEE LAYOUT AND MATERIALS PLAN FOR TREAD DIMENSIONS; ALL STEPS SHALL BE ONE PIECE
 - LANDSCAPE ARCHITECT TO REVIEW SPECIMEN PRIOR TO INSTALLATION

SEAL

PROJECT TITLE

MERCY
144 STATE STREET
PORTLAND, ME

PREPARED FOR

REVISIONS	DATE
LEVEL III SITE PLAN	11.09.2020
LEVEL III SITE PLAN	05.25.2021
HISTORIC REVIEW	07.09.2021
LEVEL III SITE PLAN	07.21.2021
HISTORIC REVIEW	07.26.2021

ISSUE DATE

LEVEL III SITE PLAN
SEPTEMBER 10, 2020

SHEET TITLE

DETAILS

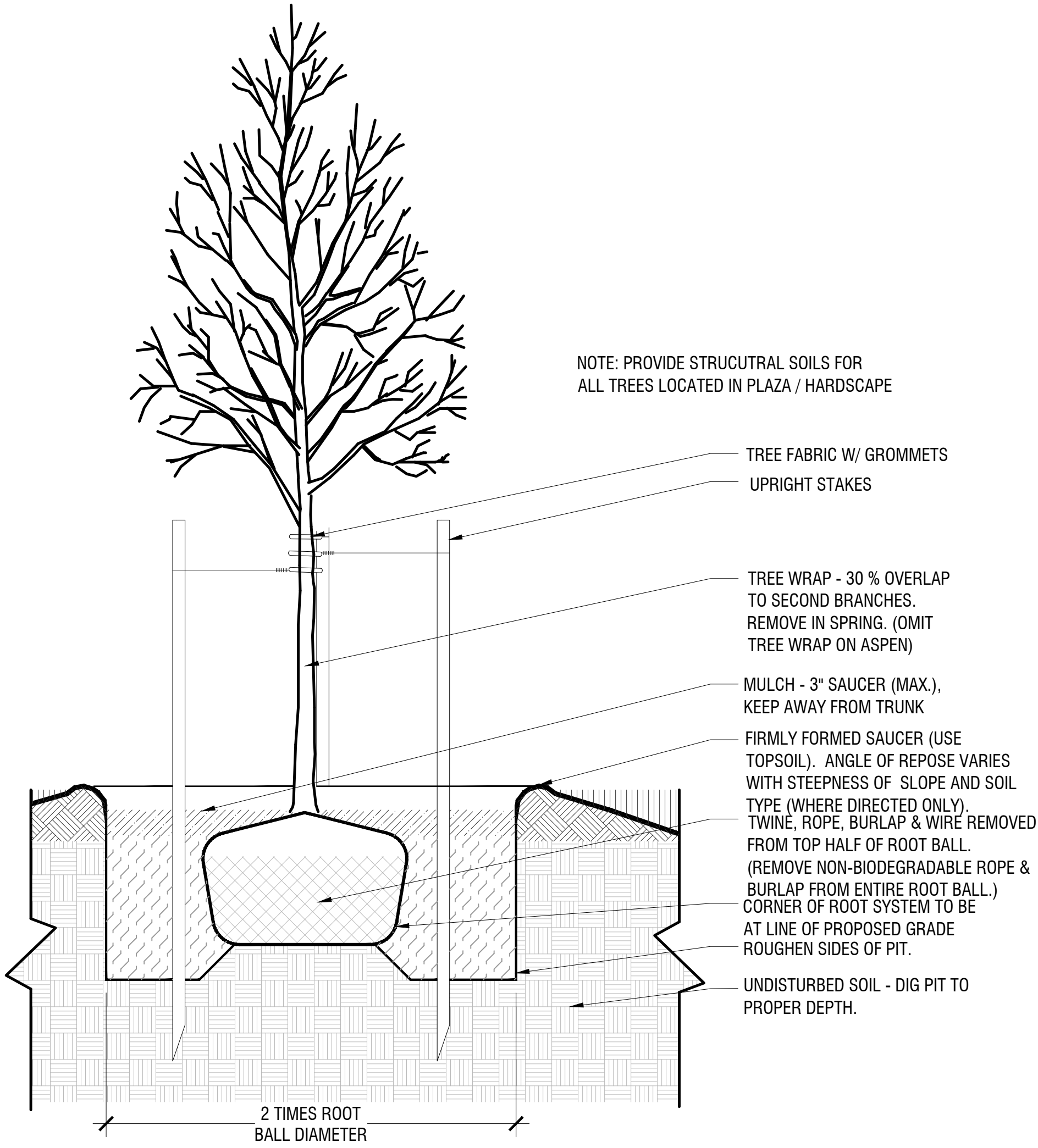
SHEET INFORMATION

L 4-01

PERMIT LEVEL
NOT ISSUED FOR
CONSTRUCTION

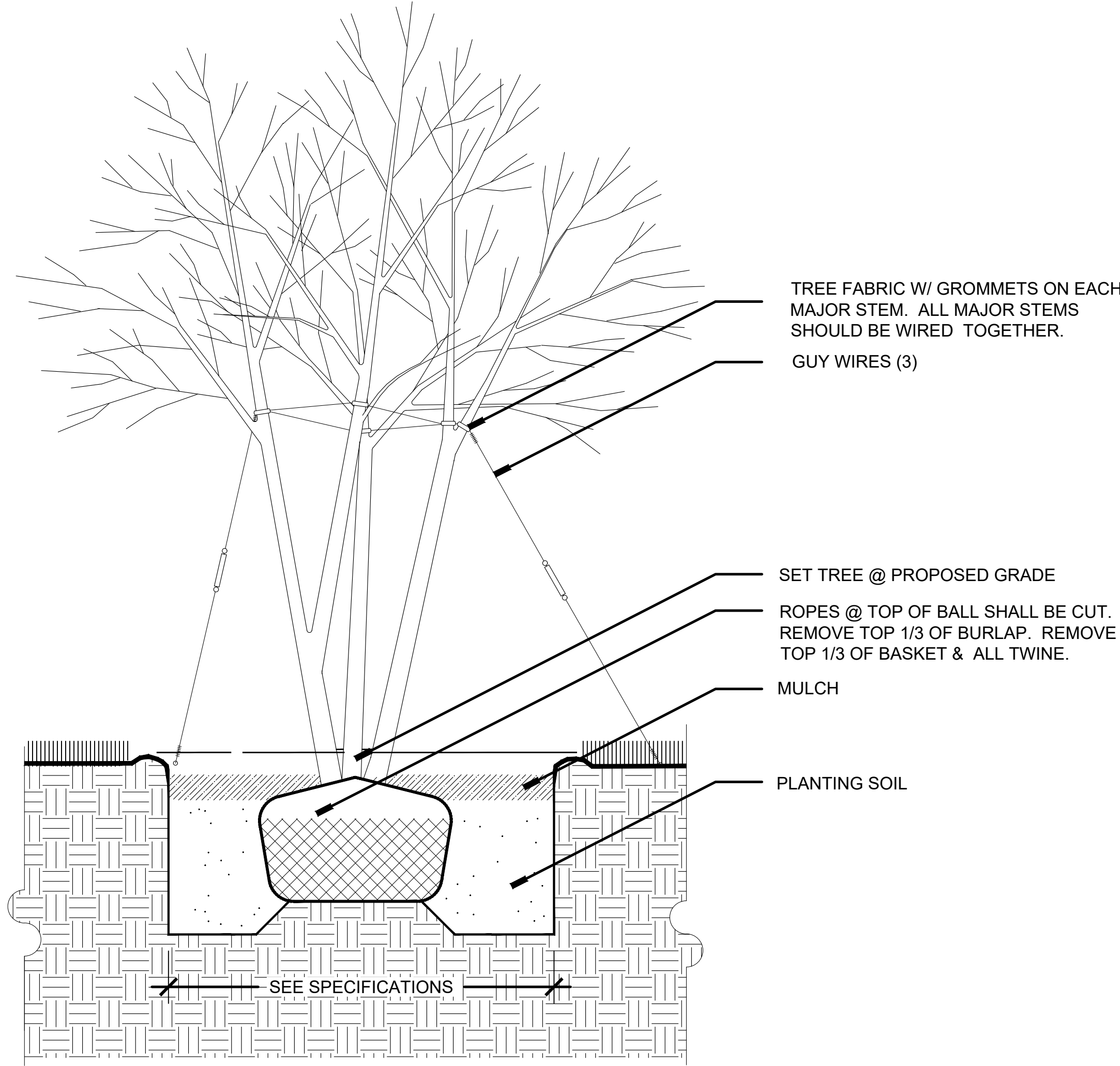
SITE KEYNOTES:

1.0	PAVEMENTS, RAMPS, CURBS	DETAIL / SHEET	6.0	RAILINGS, BARRIERS, FENCING	DETAIL / SHEET
1.1	PAVERS - TBD	1/L4-00	6.1	HANDRAIL	1/L4-01
1.2	PAVERS - STRIPING PARKING	1/L4-00			
2.0	JOINTING		7.0	SITE LIGHTING	
X.X	NOT USED AT THIS TIME	X/XX-XX		BY OTHERS	
3.0	STEPS		8.0	DRAINAGE	
3.1	GRANITE STEPS	2/L4-01	X.X	NOT USED AT THIS TIME	X/XX-XX
4.0	SITE WALLS/ EMBANKMENTS		9.0	PLANTING AND LANDSCAPE	
4.1	MASONRY WALL - FINISH TBD	3/L4-00	9.1	DECIDUOUS TREE PLANTING	1/L4-02
4.2	GUARD RAILING	2/L4-00	9.2	MULTI-STEM TREE PLANTING	2/L4-02
			9.3	SHRUB PLANTING	3/L4-02
			9.4	PERENNIAL PLANTING	4/L4-02
			9.5	STEEL EDGING	5/L4-02
5.0	SITE FURNITURE		10.0	MISCELLANEOUS ELEMENTS	
5.1	GRANITE BENCH	1/L4-03	10.1	BIKE RACK - STREETLIFE CorTen	1/L4-04
5.2	SOLID EDGE SYSTEM - STREETLIFE	2/L4-03	10.2	TREE GRILLE - STREETLIFE CUSTOM 5' X 18"	2/L4-04
			10.3	TREE GRILLE - STREETLIFE 5' x 5'	2/L4-04
			10.4	TREE GRATE - NENNAH MODEL R-8810	3/L4-04
			10.5	WASTE DISPOSAL CONTAINERS	1/L4-05
			10.6	BOLLARD - STREETLIFE OPEN BOLLARD	1/L4-05



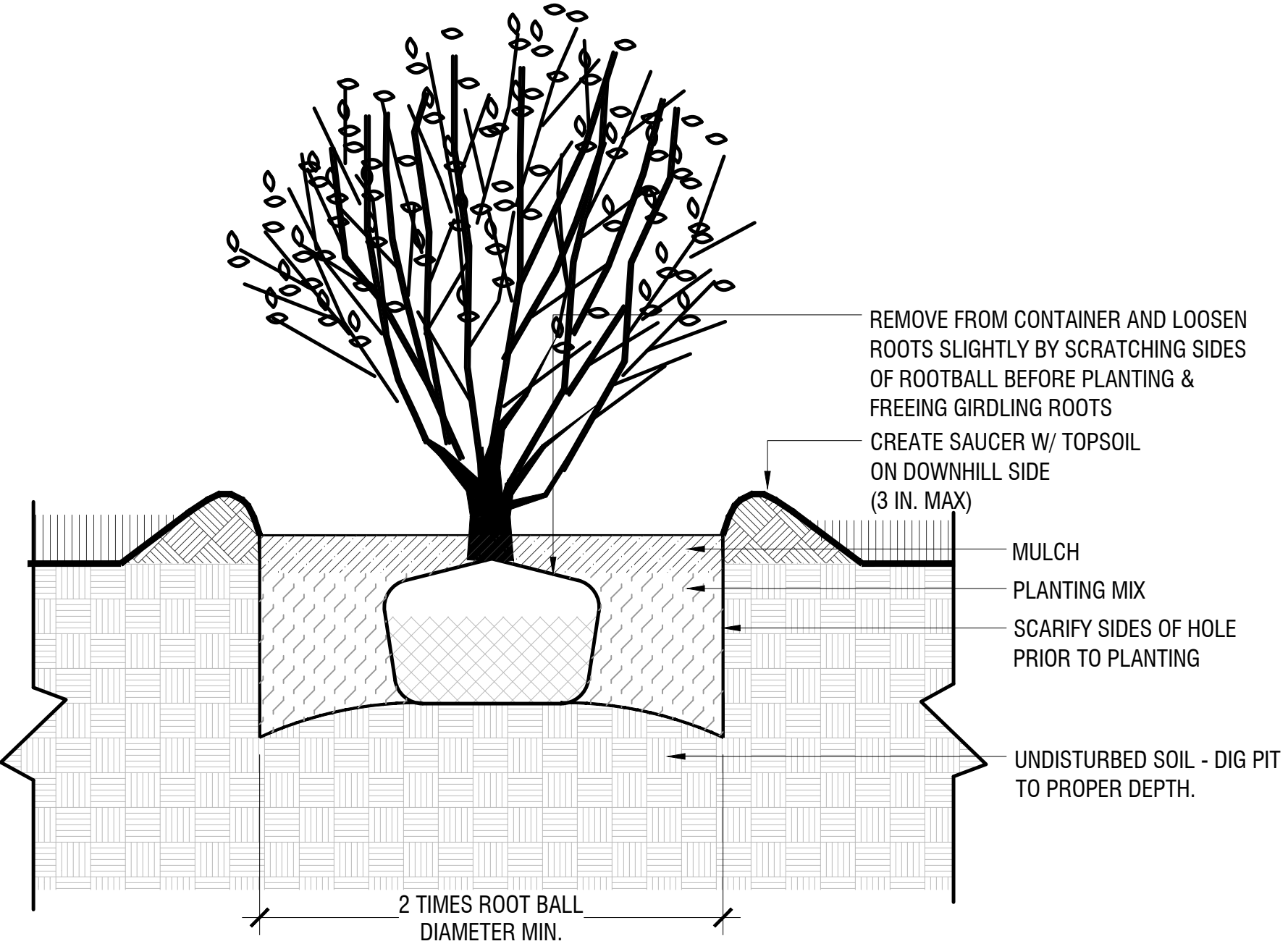
1 DECIDUOUS TREE PLANTING
1":1'-0"

9.1



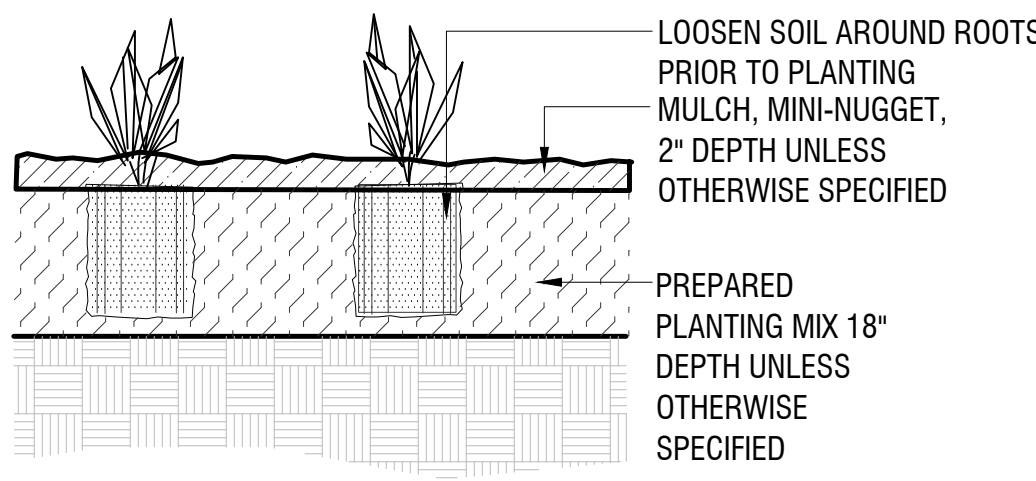
2 MULTI-STEM TREE PLANTING
1":1'-0"

9.2



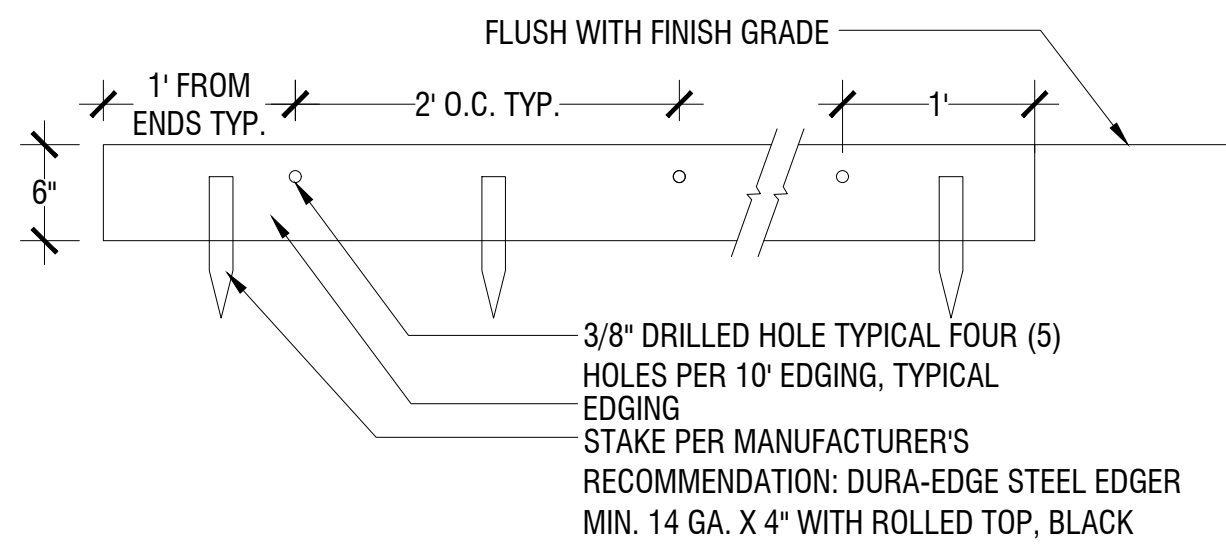
3 SHRUB PLANTING
1":1'-0"

9.3



4 PERENNIAL PLANTING
1":1'-0"

9.4



5 STEEL EDGING
1":1'-0"

9.5

SEAL

PROJECT TITLE

MERCY
144 STATE STREET
PORTLAND, ME

PREPARED FOR

REVISIONS	DATE
LEVEL III SITE PLAN	11.09.2020
LEVEL III SITE PLAN	05.25.2021
HISTORIC REVIEW	07.09.2021
LEVEL III SITE PLAN	07.21.2021
HISTORIC REVIEW	07.26.2021

ISSUE DATE

LEVEL III SITE PLAN
SEPTEMBER 10, 2020

SHEET TITLE

PLANTING DETAILS

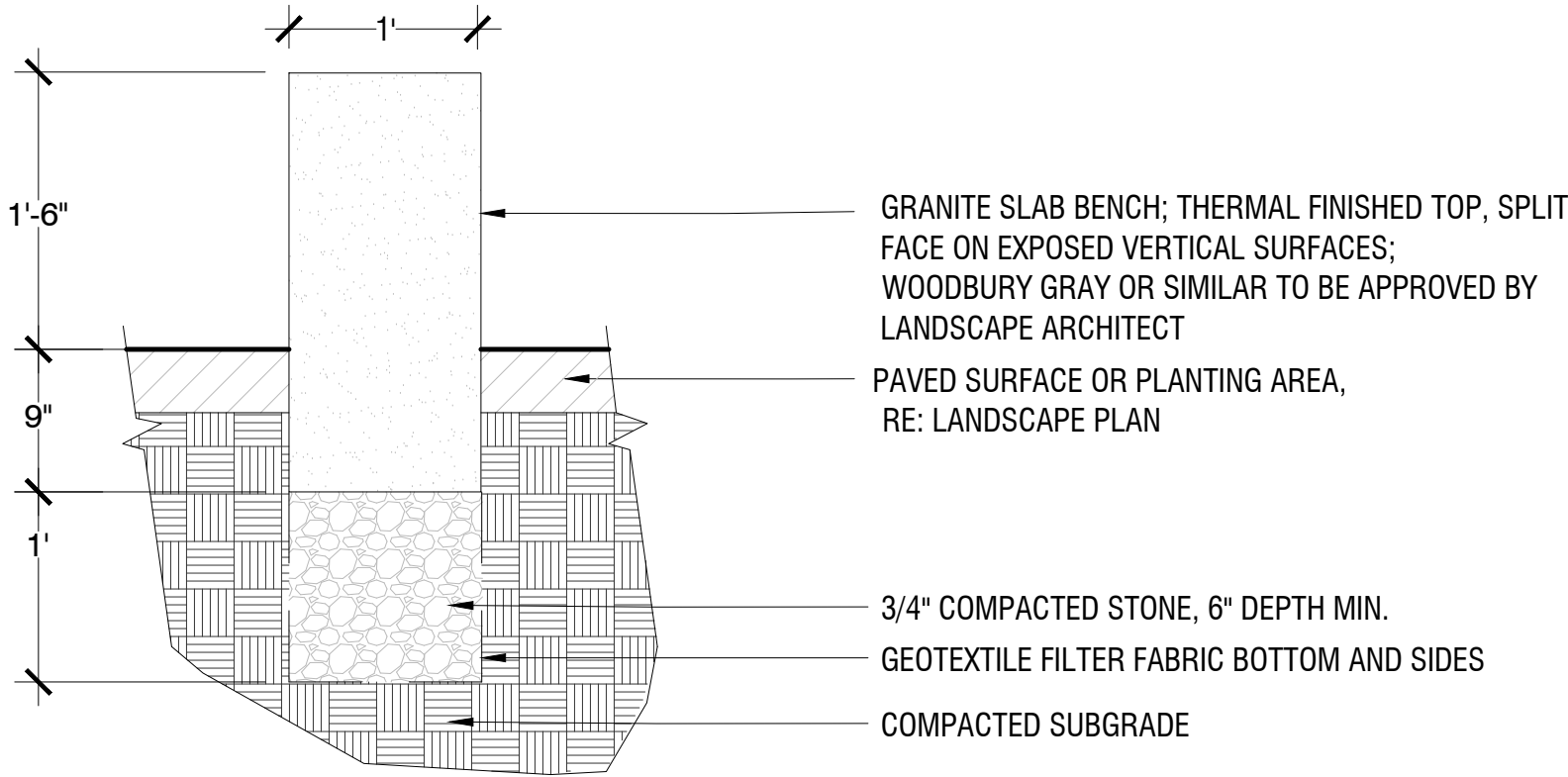
SHEET INFORMATION

L 4-02

PERMIT LEVEL
NOT ISSUED FOR
CONSTRUCTION

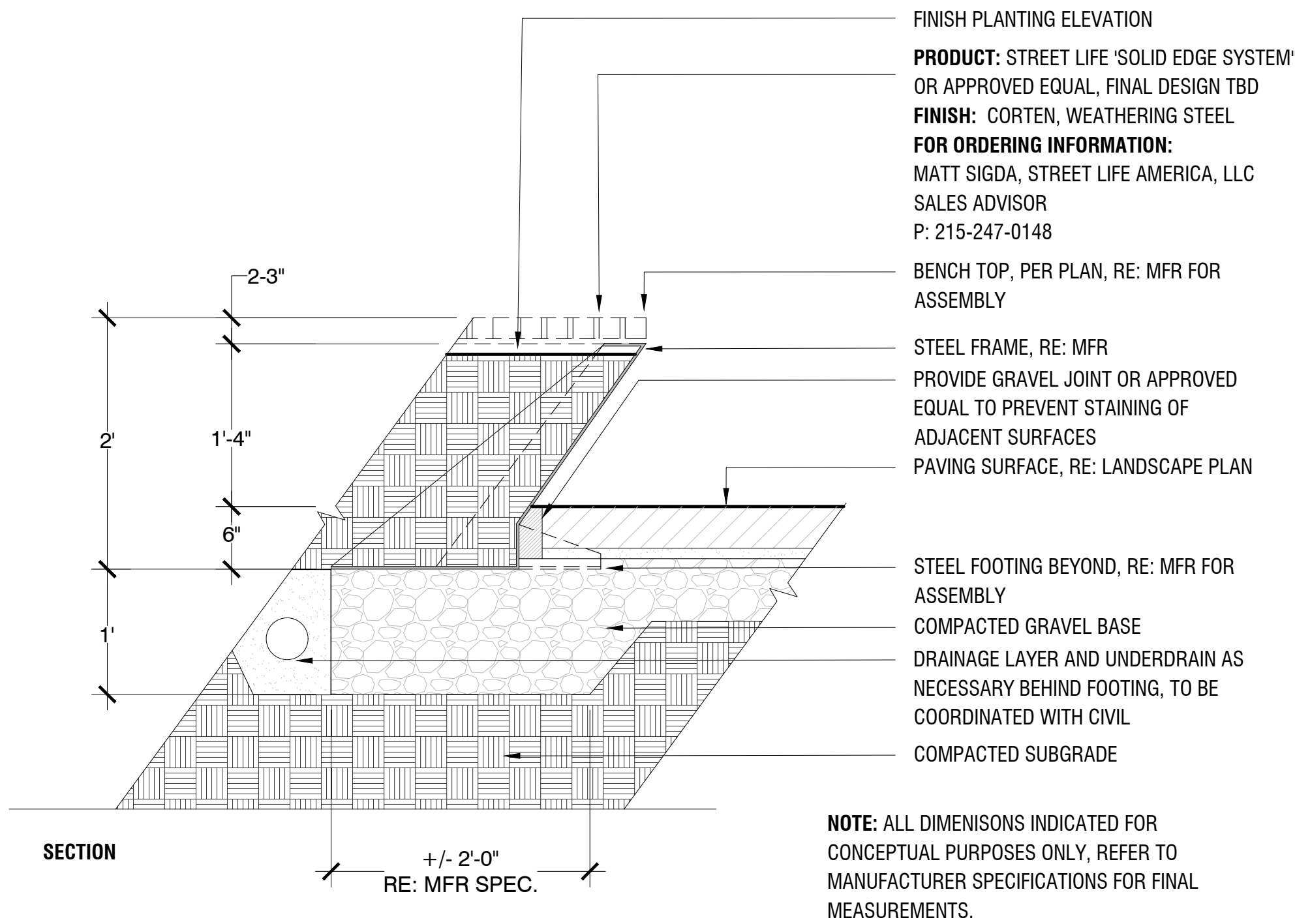
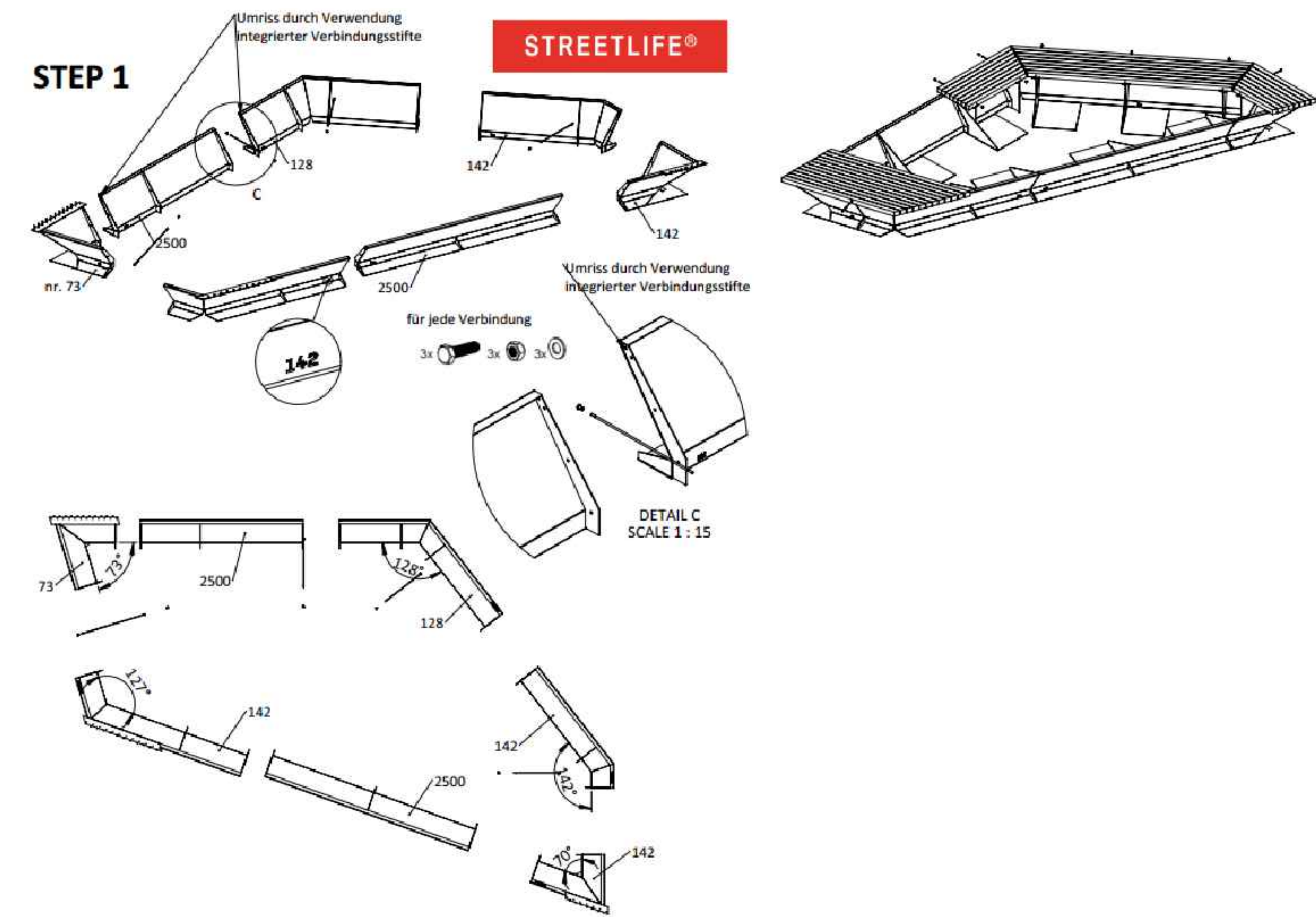
SITE KEYNOTES:

1.0	PAVEMENTS, RAMPS, CURBS	DETAIL / SHEET	6.0	RAILINGS, BARRIERS, FENCING	DETAIL / SHEET
1.1	PAVERS - TBD	1/L4-00	6.1	HANDRAIL	1/L4-01
1.2	PAVERS - STRIPING PARKING	1/L4-00			
2.0	JOINTING		7.0	SITE LIGHTING	
X.X	NOT USED AT THIS TIME	X/XX-XX	BY OTHERS		
3.0	STEPS		8.0	DRAINAGE	
3.1	GRANITE STEPS	2/L4-01	X.X	NOT USED AT THIS TIME	X/XX-XX
4.0	SITE WALLS/ EMBANKMENTS		9.0	PLANTING AND LANDSCAPE	
4.1	MASONRY WALL - FINISH TBD	3/L4-00	9.1	DECIDUOUS TREE PLANTING	1/L4-02
4.2	GUARD RAILING	2/L4-00	9.2	MULTI-STEM TREE PLANTING	2/L4-02
			9.3	SHRUB PLANTING	3/L4-02
			9.4	PERENNIAL PLANTING	4/L4-02
			9.5	STEEL EDGING	5/L4-02
5.0	SITE FURNITURE		10.0	MISCELLANEOUS ELEMENTS	
5.1	GRANITE BENCH	1/L4-03	10.1	BIKE RACK - STREETLIFE CorTen	1/L4-04
5.2	SOLID EDGE SYSTEM - STREETLIFE	2/L4-03	10.2	TREE GRILLE - STREETLIFE CUSTOM 5' X 18'	2/L4-04
			10.3	TREE GRILLE - STREETLIFE 5' x 5'	2/L4-04
			10.4	TREE GRATE - NENNAH MODEL R-8810	3/L4-04
			10.5	WASTE DISPOSAL CONTAINERS	1/L4-05
			10.6	BOLLARD - STREETLIFE OPEN BOLLARD	1/L4-05



1 GRANITE BENCH
N.T.S.

5.1



2 SOLID EDGE SYSTEM - STREETLIFE
N.T.S.

5.2

SEAL

PROJECT TITLE

MERCY
144 STATE STREET
PORTLAND, ME

PREPARED FOR

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ISSUE DATE

LEVEL III SITE PLAN
SEPTEMBER 10, 2020

SHEET TITLE

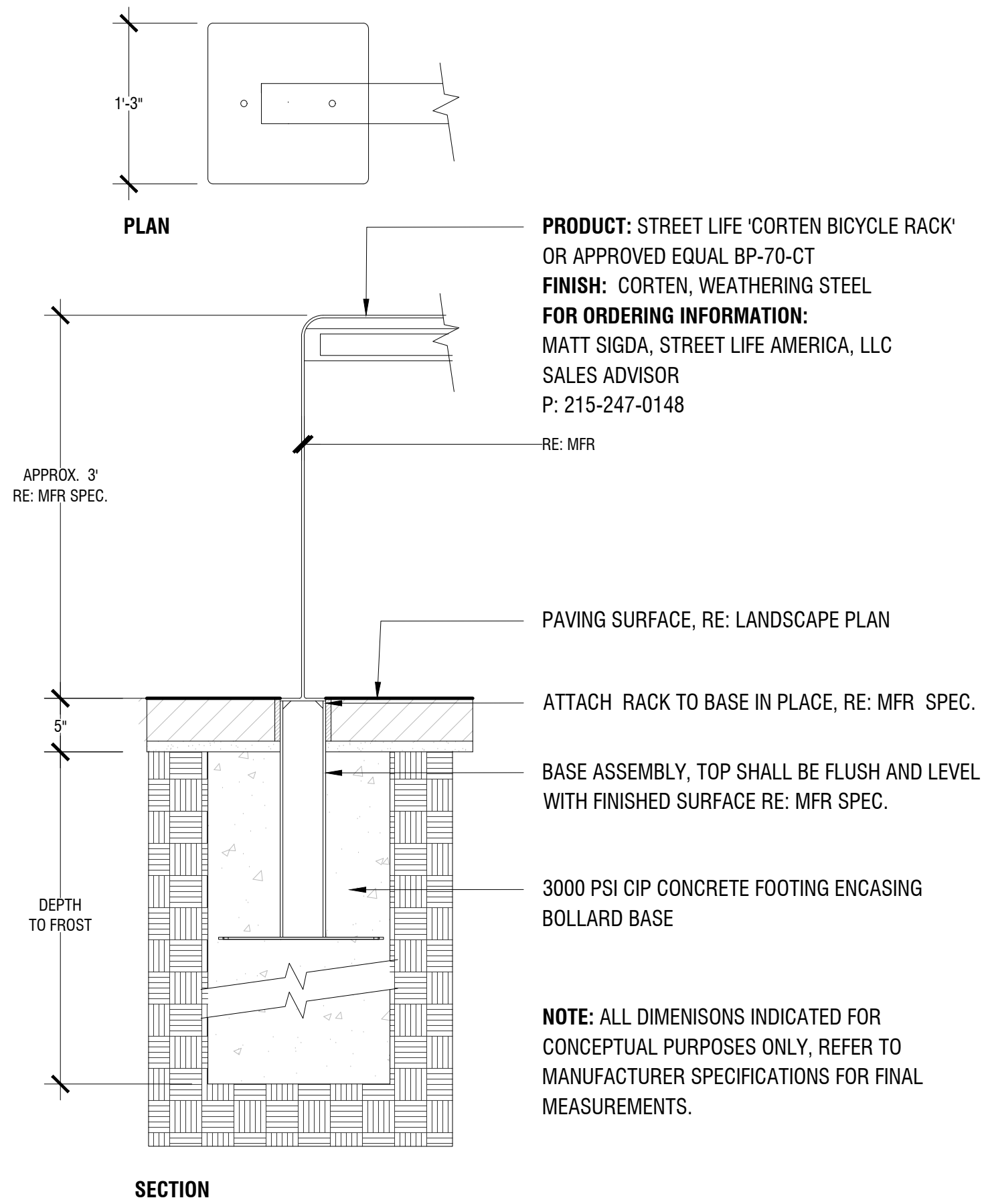
SITE FURNISHINGS

SHEET INFORMATION

L 4-03

SITE KEYNOTES:

1.0	PAVEMENTS, RAMPS, CURBS	DETAIL / SHEET	6.0	RAILINGS, BARRIERS, FENCING	DETAIL / SHEET
1.1	PAVERS - TBD	1/L4-00	6.1	HANDRAIL	1/L4-01
1.2	PAVERS - STRIPING PARKING	1/L4-00			
2.0	JOINTING		7.0	SITE LIGHTING	
X.X	NOT USED AT THIS TIME	X/XX-XX		BY OTHERS	
3.0	STEPS		8.0	DRAINAGE	
3.1	GRANITE STEPS	2/L4-01	X.X	NOT USED AT THIS TIME	X/XX-XX
4.0	SITE WALLS/ EMBANKMENTS		9.0	PLANTING AND LANDSCAPE	
4.1	MASONRY WALL - FINISH TBD	3/L4-00	9.1	DECIDUOUS TREE PLANTING	1/L4-02
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			9.3	SHRUB PLANTING	3/L4-02
			9.4	PERENNIAL PLANTING	4/L4-02
			9.5	STEEL EDGING	5/L4-02
5.0	SITE FURNITURE		10.0	MISCELLANEOUS ELEMENTS	
5.1	GRANITE BENCH	1/L4-03	10.1	BIKE RACK - STREETLIFE CorTen	1/L4-04
5.2	SOLID EDGE SYSTEM - STREETLIFE	2/L4-03	10.2	TREE GRILLE - STREETLIFE CUSTOM 5' X 18"	2/L4-04
			10.3	TREE GRILLE - STREETLIFE 5' x 5'	2/L4-04
			10.4	TREE GRATE - NENNAH MODEL R-8810	3/L4-04
			10.5	WASTE DISPOSAL CONTAINERS	1/L4-05
			10.6	BOLLARD - STREETLIFE OPEN BOLLARD	1/L4-05



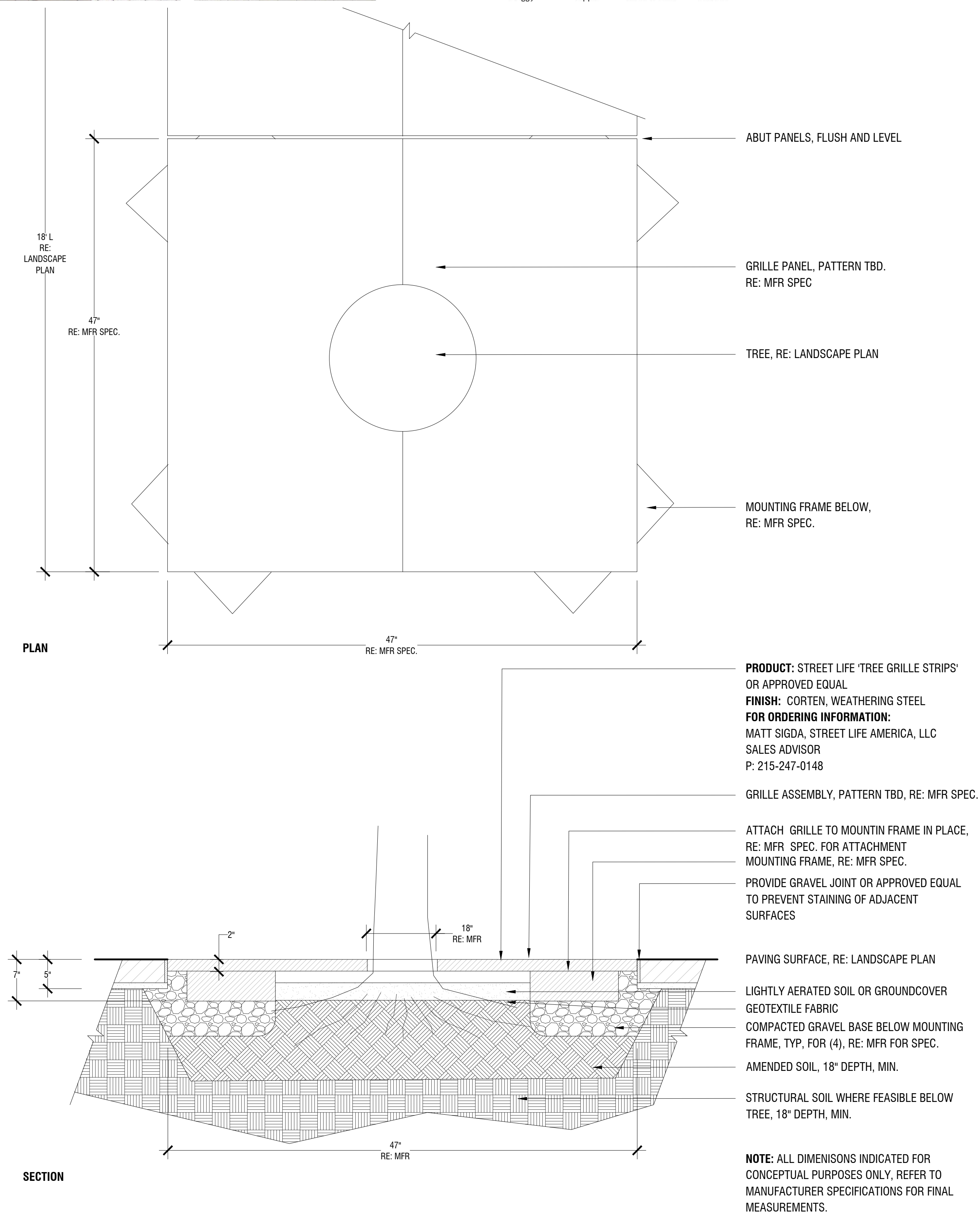
1

BIKE RACK
N.T.S.

10.1

2

TREE GRILLE
N.T.S.



10.2

10.3

SEAL

PROJECT TITLE

MERCY
144 STATE STREET
PORTLAND, ME

PREPARED FOR

REVISIONS	DATE
LEVEL III SITE PLAN	11.09.2020
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LEVEL III SITE PLAN	07.21.2021
HISTORIC REVIEW	07.26.2021

ISSUE DATE

LEVEL III SITE PLAN
SEPTEMBER 10, 2020

SHEET TITLE

SITE FURNISHINGS

SHEET INFORMATION

L 4-04

SITE KEYNOTES:

1.0	PAVEMENTS, RAMPS, CURBS	DETAIL / SHEET	6.0	RAILINGS, BARRIERS, FENCING	DETAIL / SHEET
1.1	PAVERS - TBD	1/L4-00	6.1	HANDRAIL	1/L4-01
1.2	PAVERS - STRIPING PARKING	1/L4-00			
			7.0	SITE LIGHTING	
				BY OTHERS	
2.0	JOINTING		8.0	DRAINAGE	
X.X	NOT USED AT THIS TIME	X/XX-XX	X.X	NOT USED AT THIS TIME	X/XX-XX
3.0	STEPS		9.0	PLANTING AND LANDSCAPE	
3.1	GRANITE STEPS	2/L4-01	9.1	DECIDUOUS TREE PLANTING	1/L4-02
			9.2	MULTI-STEM TREE PLANTING	2/L4-02
4.0	SITE WALLS/ EMBANKMENTS		9.3	SHRUB PLANTING	3/L4-02
4.1	MASONRY WALL - FINISH TBD	3/L4-00	9.4	PERENNIAL PLANTING	4/L4-02
4.2	GUARD RAILING	2/L4-00	9.5	STEEL EDGING	5/L4-02
5.0	SITE FURNITURE		10.0	MISCELLANEOUS ELEMENTS	
5.1	GRANITE BENCH	1/L4-03	10.1	BIKE RACK - STREETLIFE CorTen	1/L4-04
5.2	SOLID EDGE SYSTEM - STREETLIFE	2/L4-03	10.2	TREE GRILLE - STREETLIFE CUSTOM 5' X 18'	2/L4-04
			10.3	TREE GRILLE - STREETLIFE 5' x 5'	2/L4-04
			10.4	TREE GRATE - NENNAH MODEL R-8810	3/L4-04
			10.5	WASTE DISPOSAL CONTAINERS	1/L4-05
			10.6	BOLLARD - STREETLIFE OPEN BOLLARD	1/L4-05

Product Sheet

Box Bins Extra Slim

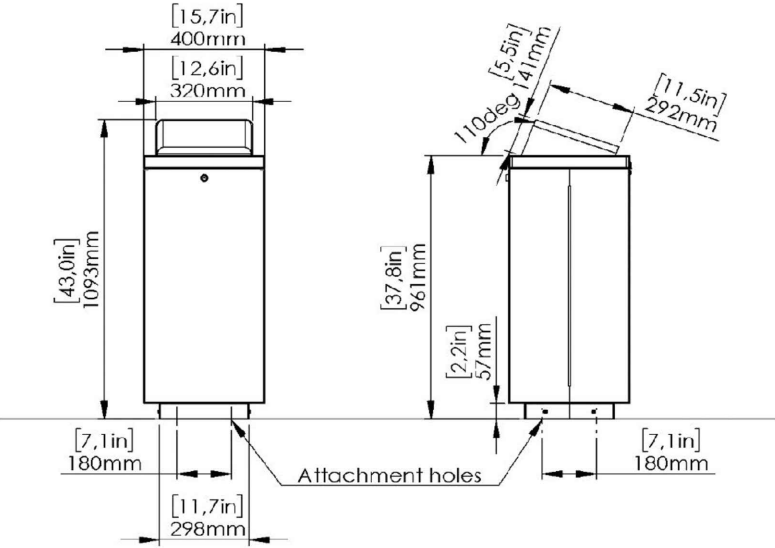
Waste disposal container in powder coated steel



Product Code	BB-S40-PC / BB-S40-CD-PC
Dimensions	ca.40×40×97 cm 16×16×38 inches (l×w×h) Volume ca. 120 liter 3,5 cu.ft
Weight	41 kg / 90 lbs
Material	Walls: laser cut weathering steel finished in a double powder coating Lid: stainless steel or weathering steel incl. lock
Optional	Steel walls with Casual Dots pattern (-CD in product code) Lid with Casual Dots Pattern Raincover with opening in stainless steel or weathering steel
Delivery	Fully assembled
Cleaning & Maintenance	Powder coated steel: maintenance free, cleaning with clear water and brush or high pressure water cleaner
Rendering	

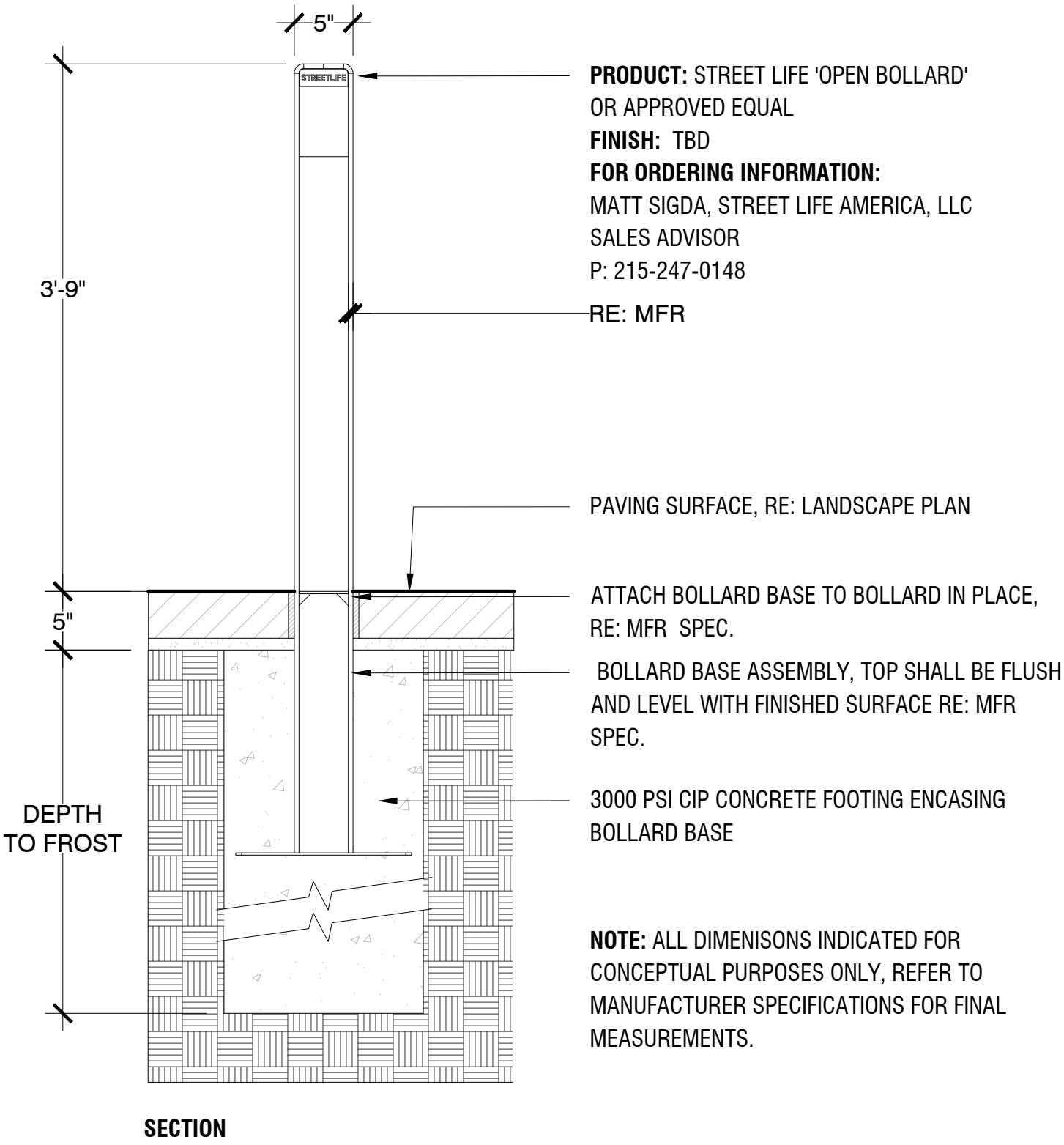
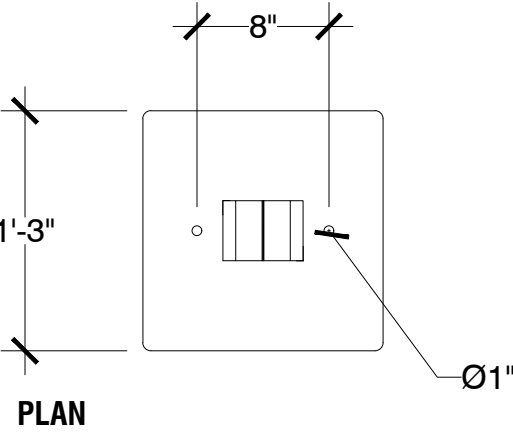
Installation

The product can be surface mounted with 4 bolts from the inside to pavement on a concrete foundation block



*Metric units are leading

Design: Streetlife
Protected by int. Modeldepos & Patents



PRODUCT: STREET LIFE 'OPEN BOLLARD'
OR APPROVED EQUAL
FINISH: TBD
FOR ORDERING INFORMATION:
MATT SIGDA, STREET LIFE AMERICA, LLC
SALES ADVISOR
P: 215-247-0148

RE: MFR

PAVING SURFACE, RE: LANDSCAPE PLAN

ATTACH BOLLARD BASE TO BOLLARD IN PLACE,
RE: MFR SPEC.

BOLLARD BASE ASSEMBLY, TOP SHALL BE FLUSH
AND LEVEL WITH FINISHED SURFACE RE: MFR
SPEC.

3000 PSI CIP CONCRETE FOOTING ENCASING
BOLLARD BASE

NOTE: ALL DIMENISONS INDICATED FOR
CONCEPTUAL PURPOSES ONLY, REFER TO
MANUFACTURER SPECIFICATIONS FOR FINAL
MEASUREMENTS.

1 WASTE DISPOSAL
N.T.S.

10.5

2 BOLLARD - STREETLIFE OPEN
N.T.S.

10.6

REVISIONS	DATE
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HISTORIC REVIEW	07.09.2021
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HISTORIC REVIEW	07.26.2021



FAMILY BUILDING



SENIOR BUILDING



FAMILY BUILDING



WOONERF / ALLEY CONCEPT

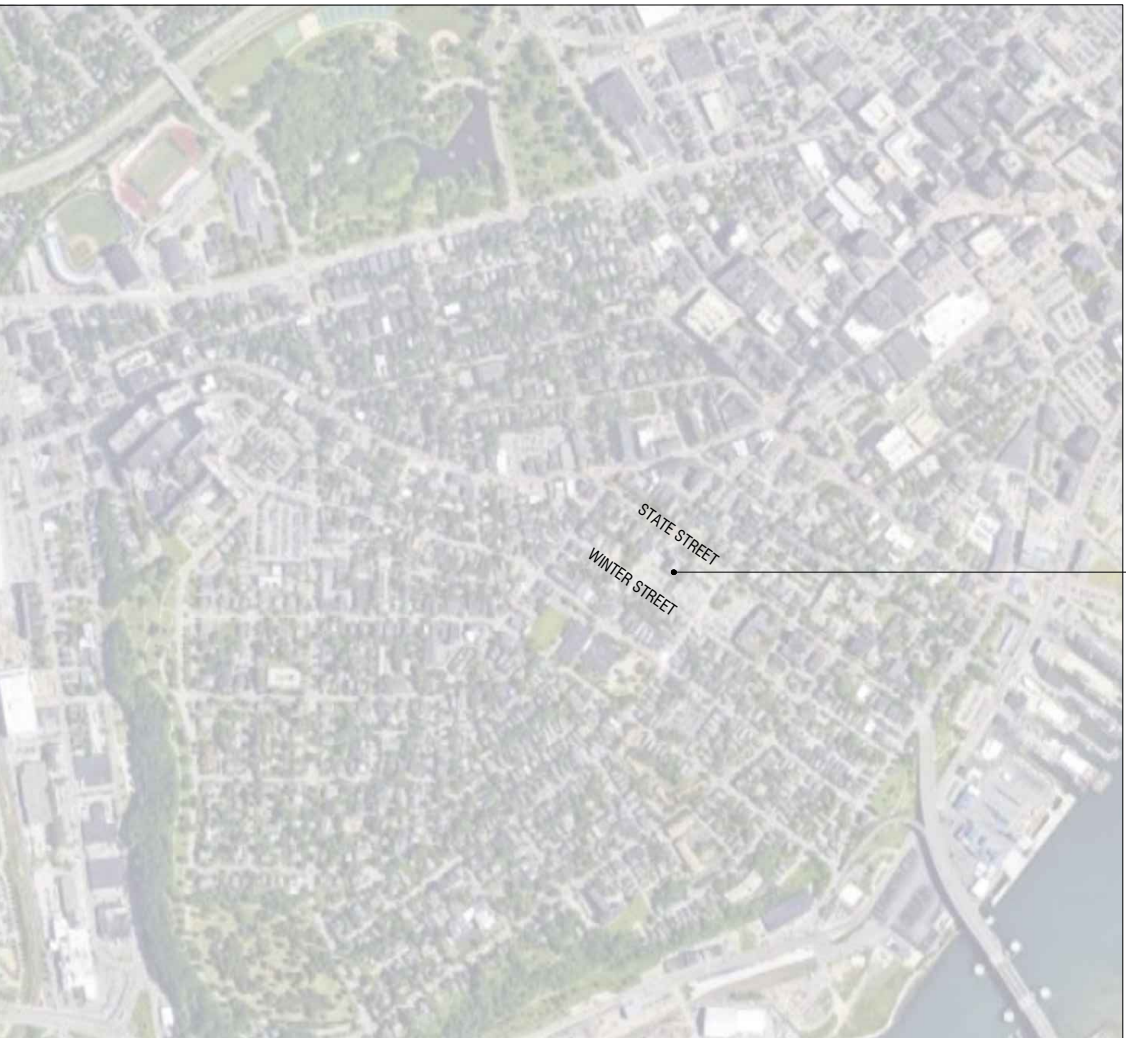
CONCEPT IMAGES
(PLANTING REPRESENTATIVE OF SCALE/MASSING, COLOR MAY VARY)

07.26.2021 HISTORIC REVIEW
07.09.2021 HISTORIC REVIEW
06.23.2021 LEVEL III SITE PLAN
12.04.2020 LEVEL III SITE PLAN

SHEET INDEX
LANDSCAPE DRAWINGS

■ ■ ■	L0-00	COVER SHEET
■ ■ ■	L0-01	NOTES
■ ■ ■	L1-00	LAYOUT PLAN
■ ■ ■	L2-00	MATERIALS PLAN
■ ■ ■	L3-00	PLANTING PLAN
■ ■ ■	L4-00	DETAILS
■ ■ ■	L4-01	DETAILS
■ ■ ■	L4-02	DETAILS
■ ■ ■	L4-03	SITE FURNISHINGS

VICINITY MAP:



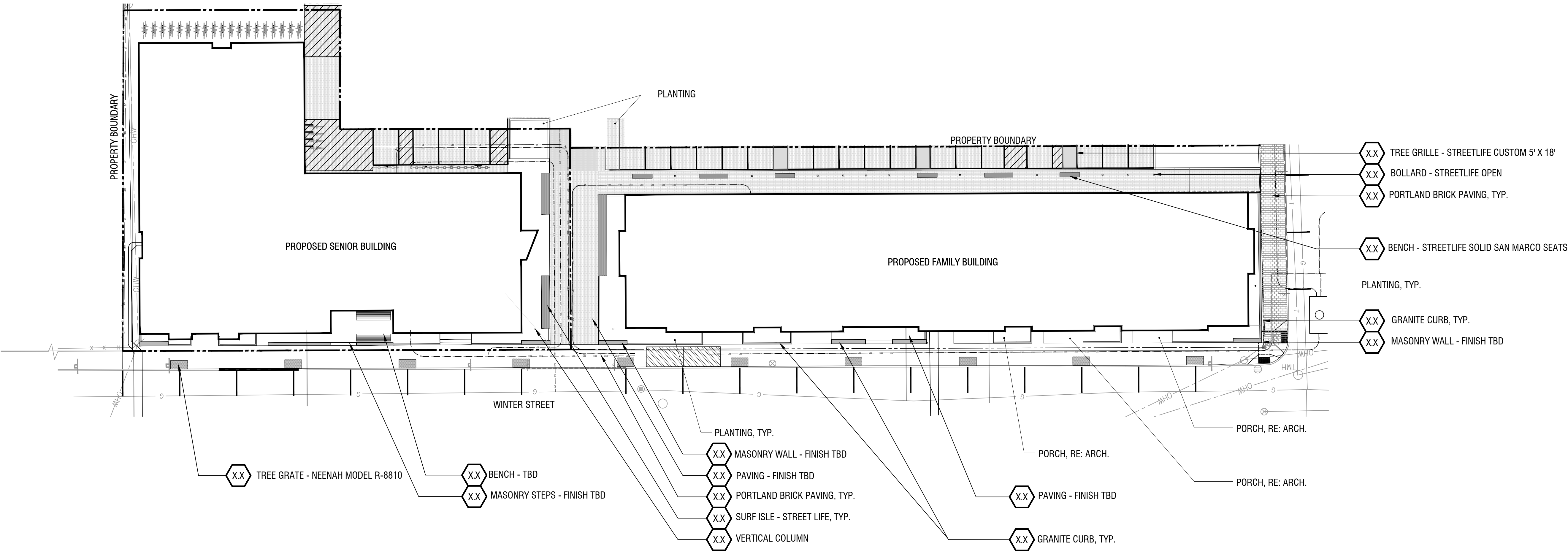
PROJECT LOCATION



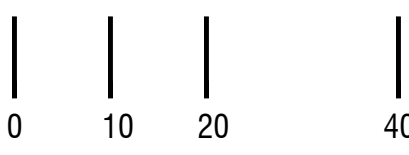
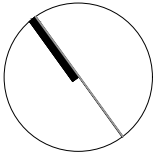
SITE KEYNOTES:

1.0	PAVEMENTS, RAMPS, CURBS	DETAIL / SHEET
1.1	PAVERS - TBD	1/L4-00
1.2	PAVERS - STRIPING PARKING	1/L4-00
2.0	JOINTING	
X.X	NOT USED AT THIS TIME	X/XX-XX
3.0	STEPS	
3.1	GRANITE STEPS	2/L4-01
4.0	SITE WALLS/ EMBANKMENTS	
4.1	MASONRY WALL - FINISH TBD	3/L4-00
4.2	GUARD RAILING	2/L4-00
5.0	SITE FURNITURE	
5.1	GRANITE BENCH	1/L4-03
5.2	SOLID EDGE SYSTEM - STREETLIFE	2/L4-03

6.0	RAILINGS, BARRIERS, FENCING	DETAIL / SHEET
6.1	HANDRAIL	1/L4-01
7.0	SITE LIGHTING	
BY OTHERS		
8.0	DRAINAGE	
X.X	NOT USED AT THIS TIME	X/XX-XX
9.0	PLANTING AND LANDSCAPE	
9.1	DECIDUOUS TREE PLANTING	1/L4-02
9.2	MULTI-STEM TREE PLANTING	2/L4-02
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10.0	MISCELLANEOUS ELEMENTS	
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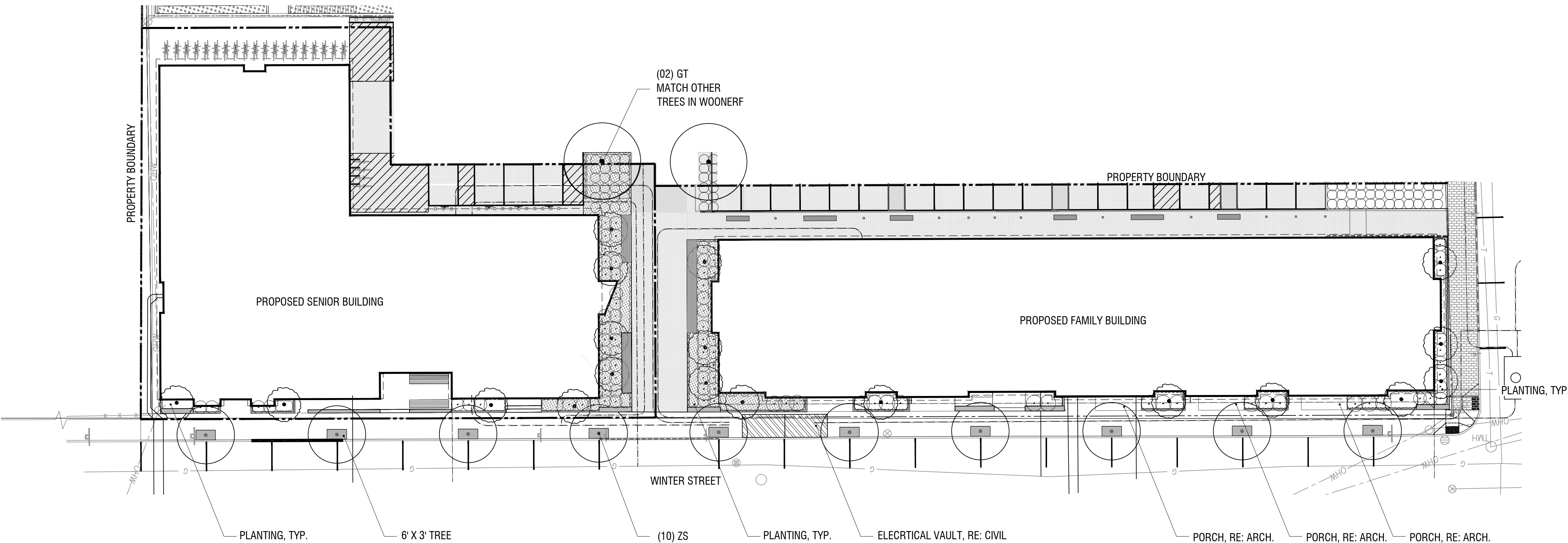
PERMIT LEVEL
NOT ISSUED FOR
CONSTRUCTION



SITE KEYNOTES:

1.0	PAVEMENTS, RAMPS, CURBS	DETAIL / SHEET
1.1	PAVERS - TBD	1/L4-00
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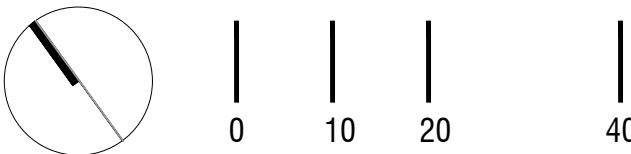
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6.1	HANDRAIL	1/L4-01
7.0	SITE LIGHTING	
BY OTHERS		
8.0	DRAINAGE	
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PLANTING LEGEND

SYMBOL	ABBR.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	SPACING
TREES-DECIDUOUS						
ZS	ZS	ZELKOVA SERRATA 'GREEN VASE'	JAPANESE ZELKOVA	10	2.5" CAL.	PER PLAN
GT	GT	GLEDITSIA TRIACANTHOS 'SKYCOL'	SKYLINE HONEYLOCUST	02	3" CAL.	PER PLAN
AL	AL	AMELANCHIER LAEVIS	AMELANCHIER LAEVIS	TBD	8-10' HT B&B	PER PLAN
SHRUBS & WOODY GROUNDCOVER						
CS	CS	CORNUS SERICEA	REDTWIG DOGWOOD	TBD	#5	PER PLAN
JHBR	JHBR	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	BAR HARBOR JUNIPER	TBD	#3	PER PLAN
RA	RA	RHUS AROMATICA 'GRO-LOW'	GROW-LOW SUMAC	TBD	#3	3.5' O.C.
MP	MP	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY SHRUBS	TBD	#5	PER PLAN
GRASSES / PERENNIALS						
SH	SH	SPOROBOLUS HETEROLEPSIS	PRAIRIE DROPSEED	TBD	#2	2' O.C.
PV	PV	PANICUM VIRGATUM	SWITCH GRASS	TBD	#2	2' O.C.

PERMIT LEVEL
NOT ISSUED FOR
CONSTRUCTION





Date: Aug 3, 2021

Swaney Lighting
PO Box 1597
Scarborough ME 04070
Phone: (207) 883-7100
Fax: (207) 885-9606

Job Name
MERCY HOSPITAL SITE LIGHTING
SLA20-47120
PORTLAND ME

Bid Date
Jul 23, 2021

Submittal Date
Aug 3, 2021



Transmittal

Swaney Lighting

PO Box 1597

Scarborough ME 04070

Phone: (207) 883-7100

From: Therese "TC" Freeman X-103

Project MERCY HOSPITAL SITE LIGHTING**Quote#** SLA20-47120**Location** PORTLAND ME

Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|-----------------------------------|--|--------|
| ☐ Drawings | ☐ Specifications | Other: |
| ☐ Prints | ☐ Information | |
| ☐ Plans | ☒ Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|--|---------------------------------|
| ☐ Prior Approval | ☒ Resubmittal for Approval | ☐ Record |
| ☐ Approval | ☐ Corrections | Bids due on: |
| ☐ Approval as Submitted | ☐ Your Use | Other: |
| ☐ Approval as Noted | ☐ Review and Comment | |

Type	MFG	Part
B2	HESS AMERICA	SE4000QG-LED-VW-UNV-13SB-**-###
	Item Note: SPECIFY FINISH & ANY OPTIONS REQUIRED.	
BL	TMB	FACTORY ASSEMBLED FLOPPYFLEX FIXTURE SYSTEM
DL	PRESCOLITE	LTR-4RD-H-SL06L-DM1 / LTR-4RD-T- SL30K8WD-S
K4	Architectural Area Lighting	K51-T4-MO-9030-WIRED120-277V- PS520-188-**
	Item Note: SPECIFY FINISH	
TL	KIM	C24F3/9L3KUV
SL	KIM	EL807/9L3KUV/**
	Item Note: SPECIFY FINISH	
W1	KIM	WDS/D/24L-30/3K7/3/UNV/**
	Item Note: SPECIFY FINISH	
W2	Dual Lite	PGF1*
	Item Note: SPECIFY FINISH	
LCP	HCS	CX162S162NM



Job Name:
MERCY HOSPITAL SITE LIGHTING

Catalog Number:

SE4000QG-LED-WW-UNV-13SB-**-###

Notes: SPECIFY FINISH & ANY OPTIONS REQUIRED.

Type:**B2**

SLA20-47120

SIERRA 4000 QG LED

Specification

Sierra QG conveys contemporary design with its clean lines and square profile. Light evenly illuminates along the length of the translucent matte acrylic lens through direct and indirect internal reflectors. The extruded aluminum shaft features a horizontal cut at the transition to the lens. Electrical assembly is housed in a weatherproof enclosure, accessible through the flush handhole. A complementary low-level bollard is also available. All hardware is stainless steel

.hess

Model	Lamp	Color Temperature	Volt	Pole	Finish	Option
SE4000QG	LED	WW - 3000K	UNV - 120-277V	13SB - 13' Column	SG - Silver Grey	DIM - 0-10VDC Dimming
		NW - 4000K		16SB - 16' Column	DG - Dark Grey	IFAB - Internal flange with anchor bolts
		R - Red			GG - Graphite Grey	EFBC - External flange with base cover and anchor bolts
		G - Green			BLK - Matte Black	N - None
		B - Blue			BRZ - Dark Bronze	To be verified
		RB - Royal Blue			CC - Custom RAL Color	
		A - Amber			Specify Std. finish	

Ordering Information

Specifications are subject to change without notification

HessAmerica > Products > Lighting Products > Illuminating Columns > SIERRA 4000 QG

https://www.hessamerica.com/Products/Lighting/Illuminating_Columns/SIERRA_4000_QG/

Page 1

Submitted by Swaney Lighting	 Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: SE4000QG-LED-WW-UNV-13SB-**-### Notes: SPECIFY FINISH & ANY OPTIONS REQUIRED.	Type: B2 SLA20-47120
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SIERRA 4000 QG LED

Specification

HOUSING

Square column base with diagonal cut at top of shaft is constructed from 0.157" nominal wall, 6062 aluminum tubing. Handhole cover is plasma cut with kerf not to exceed 1/8" and includes triangular tamper-resistant locking device. Square profile lens is impact-resistant matte acrylic. Lens assembly is secured with stainless steel socket head cap screws from inside the base. Light source is located at the base of the lens. Fabricated aluminum top cap is gasketed to create a weather-tight seal to the lens. Top cap is secured to the lens with two socket head cap screws. Nominal column height is 13' or 16'.

OPTICS

Single high-power white LED is mounted at the base of the matte acrylic cylindrical lens. The LED, combined with a high-efficiency reflector, projects light upward onto specular reflector located in the top cap to provide even illumination of the lens.

Single color LED models consist of an array of nine 3 watt high brightness LEDs arranged in a circular pattern mounted at the base of the matte acrylic cylindrical lens. LEDs fitted with narrow beam lenses project light upward onto the specular reflector located in the top cap to provide even illumination of the cylindrical lens.

ELECTRICAL

Universal LED driver is mounted in a weather-proof enclosure at the base of the column. Input voltage to universal driver is 120v through 277v AC, 50/60 Hz.

BUG RATING

B1-U4-G2 for all white LED models

DELIVERED LUMEN OUTPUT (WHITE) / POWER CONSUMPTION

3000K: 3738 lumens / 37 watts

4000K: 3831 lumens / 37 watts

LED LUMEN OUTPUT (Not Delivered) / POWER CONSUMPTION

Blue: 330 lumens / 41 watts

Royal Blue: 3820 mW / 41 watts

Green: 737 lumens / 41 watts

Red: 337 lumens / 30 watts

Amber: 220 lumens / 30 watts

MOUNTING

Standard: Internal flange with anchor bolts. Four hot-dip galvanized anchor bolts (Ø3/4" x 17" x 3") with two leveling nuts and washers per bolt.

Option: External flange with anchor bolts and base cover. Base cover is fabricated aluminum and finished to match luminaire. Four hot-dip galvanized anchor bolts with two leveling nuts and washers per bolt.

Anchor bolts or soil insert may be preshipped in advance upon request.

WEIGHT: 13' column = 85lbs / 16' column =

EPA: 13' column = 12.1 sq. ft / 16' column = 14.9 sq.ft.

FINISH

Standard finishes are finely textured matte silver grey metallic, dark grey, graphite grey, matte black, or dark bronze. Special colors available on request.

Specifications are subject to change without notification

HessAmerica > Products > Lighting Products > Illuminating Columns > SIERRA 4000 QG
https://www.hessamerica.com/Products/Lighting/Illuminating_Columns/SIERRA_4000_QG/

Page 2

Submitted by Swaney Lighting		Catalog Number:	Type:
	Job Name: MERCY HOSPITAL SITE LIGHTING	SE4000QG-LED-WW-UNV-13SB-**-### Notes: SPECIFY FINISH & ANY OPTIONS REQUIRED.	B2 SLA20-47120

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CERTIFICATION
CSA/US Certified for Wet Locations

WARRANTY
Limited product warranty period including LEDs is five years. Driver shall carry the manufacturer's limited warranty.

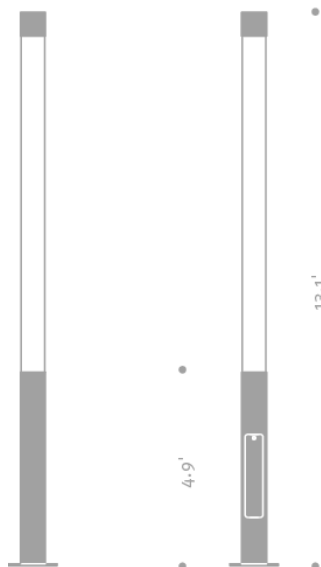


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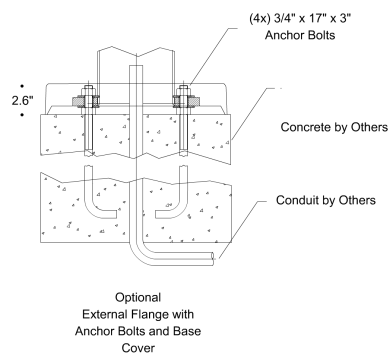
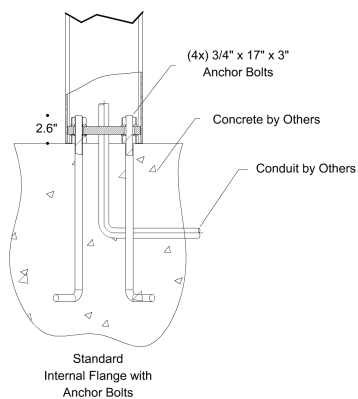
Additional information

Dimensions

□ 7.1"



Mounting detail



Specifications are subject to change without notification

HessAmerica > Products > Lighting Products > Illuminating Columns > SIERRA 4000 QG

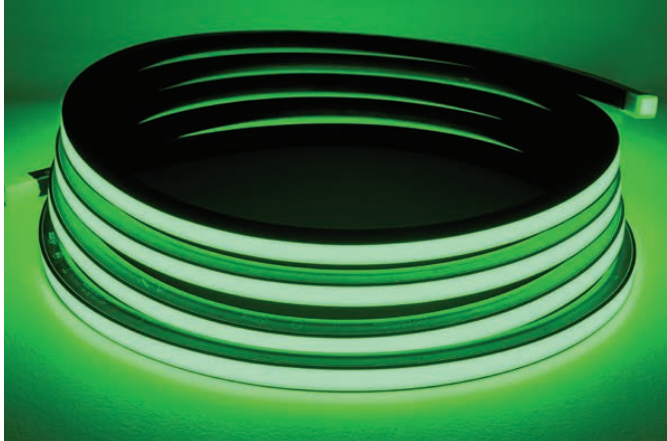
https://www.hessamerica.com/Products/Lighting/Illuminating_Columns/SIERRA_4000_QG/

Page 4



FloppyFlex®

SINGLE COLOR | FLAT 160° | FTB and STS LED NEON



Description

FloppyFlex Flat single color is flexible 24V LED neon available in several colors or color temperatures of white. The minimum side-to-side or front-to-back bend diameter is 300 mm. Features a homogenous LED surface without "skittles" effect.

Features

- Super bright with homogenous lighting surface
- Smooth, beautiful dimming, DMX control via FloppyDrive
- Wide beam angle
- Wide range of accessories for joining, terminating, mounting, powering
- Easy to use and install
- 300 mm minimum side-to-side or front-to-back bend diameter
- Unlimited and unprecedented possibilities

Applications

Installation, architectural, digital signage, gameshows, arcades, signs, film and television sets, theme parks, bars and clubs, cruise ships, creating words, indirect applications, and scenic elements



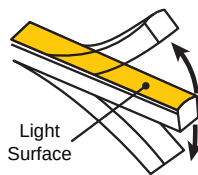
Available Connectors

Injection Molded Power Feed and End cap connectors, fully customizable for no-hassle installations. PVC IP67, Silicone IP68.

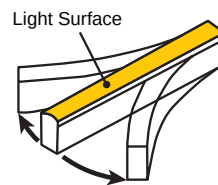
Double Molded IP68 Power Feed and End cap connectors, suitable for submersible applications. PVC only - not available for silicone versions.

EZ-Connect power feeds and end caps allow for easy onsite terminations with IP67 ratings, and allow for the End, Side, Middle, or Bottom power feed entry.

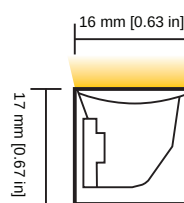
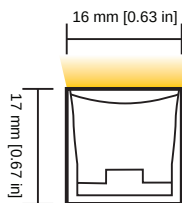
Flame Resistant — UV Resistant — Solvents Resistant
Saltwater Resistant — IP67 Protection — IK08 Protection



Front-to-Back Versions



Side-to-Side Versions



Certifications

With factory-installed connectors.

cULus Listed, CE, TUV and RoHS compliant and passes rigorous environmental, optical, mechanical, and electrical testing.



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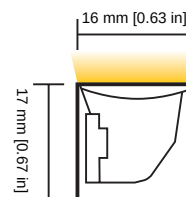
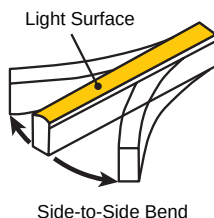


FloppyFlex®

SINGLE COLOR | FLAT 160° | STS LED NEON

Flat Side-to-Side White PVC Specifications

Part Number		FFFH21K	FFFH27K	FFFH3K	FFFH35K	FFFH4K	FFFH57K
Type		Dimmable Fixed White					
LED Color		2100K	2700K	3000K	3500K	4000K	5700K
CCT		2238±102K	2725±145K	3045±175K	3465±245K	3985±275K	5669±355K
Lumen/m		400	400	400	450	450	400
Lumen/ft		122	122	122	137	137	122
CRI		82-87					
Beam Angle, Average (50%)		116°					
Cut & Connect Unit Length		55.6 mm [2.19 in]					
Number of Units Per Meter		18					
LED Quantity Per Unit		6					
LED Quantity Per Meter		108					
Base Color		White					
Housing		PVC					
Minimum Bend Diameter		300mm/11.81 in.					
Bending Direction		Side-to-Side (STS)					
Connectors & Hardware		Factory molded connectors, Field attachable connectors, Aluminum mounting channels					
Operating Voltage		24 VDC					
Wiring		2-Wire					
Power Consumption		12 W/m					
Max Fixture Runs	Single end feed	10 m [32.8 ft]					
	Double end feed	20 m [65.6 ft]					
Control		DMX-512 via FloppyDrive 2X2, Dimmable MLV LED Driver, Non-dimmable AC/DC LED Driver					
Installation Temperature		0 to 45 °C [32 to 113°F]					
Operating Temperature		-20 to 45 °C [-4 to 113 °F]					
Mounting Surface Temperature		60 °C [140 °F] Max.					
Storage Temperature		-20 to 60 °C [-4 to 140 °F]					
Dimensions (WxHxD)		16 mm x 17 mm x variable [0.63 in x 0.67 in x variable]					
Ingress Protection		IP67 with Molded connectors, IP68 with Double Molded connectors, IP67 with EZ-Connect connectors					
Listing		UL2108 Class 2, UL2108 Non Class 2, UL676, CE-EMC, IS 10322					
Warranty		3 Years					



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**Job Name:**

MERCY HOSPITAL SITE LIGHTING

Catalog Number:FACTORY ASSEMBLED
FLOPPYFLEX FIXTURE SYSTEM

Notes:

Type:**BL**

SLA20-47120

FloppyFlex®

MOLDED FLAT CONNECTORS IP67 PVC OR IP68 SILICONE

**Molded Bottom Entry Connection**

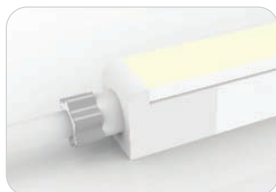
Connects FloppyFlex Flat to power supply with pre-installed end feed cable, IP67.

Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.

**Molded Side Entry Connection**

Connects FloppyFlex Flat to power supply with pre-installed side feed cable, IP67.

Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.

**Molded End Entry Connection**

Connects FloppyFlex Flat to power supply with pre-installed end feed cable, IP67.

Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.

**Molded End Cap**

Pre-installed termination protection of FloppyFlex Flat, IP67.

**Molded End Entry Connection**

Connects two pieces of FloppyFlex Flat together with a flexible cable, IP67.

Cable length available in 0.3 - 1 m.

Maximum 8 jumpers per 20 m

Maximum 4 jumpers per 10 m

**Molded T-Feed Connection**

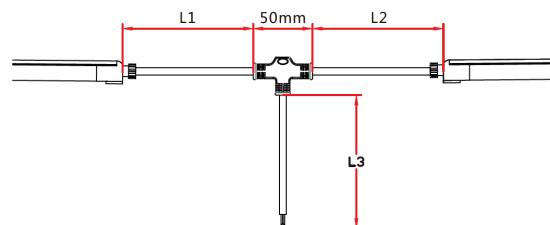
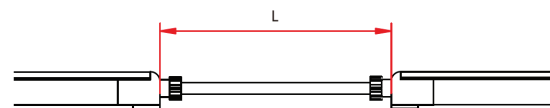
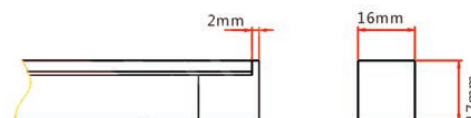
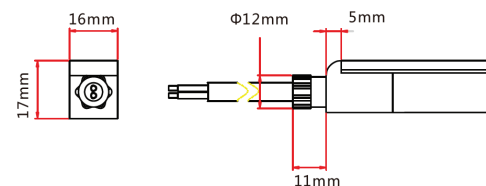
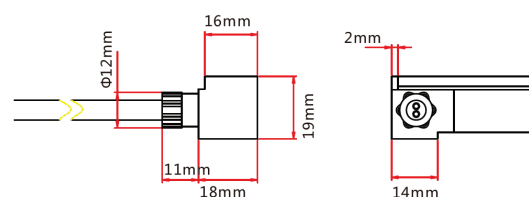
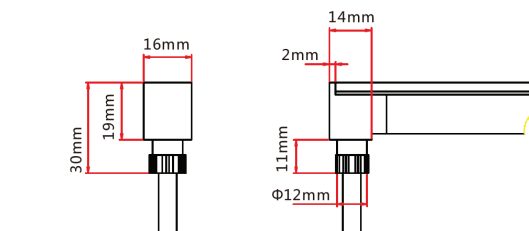
Connects two pieces of FloppyFlex Flat together with powered T-joint, IP67.

L1 and L2 length available in 0.15-0.5 m.

L3 length available in 0.3 - 1 m

Maximum 8 T-Feeds per 20 m

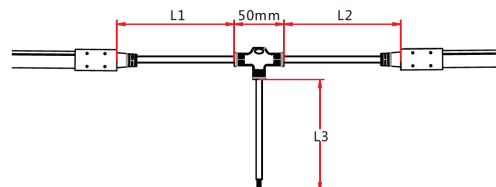
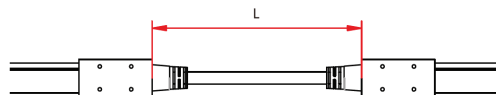
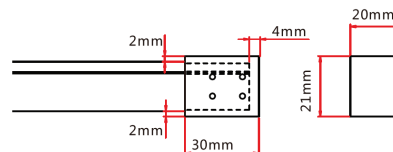
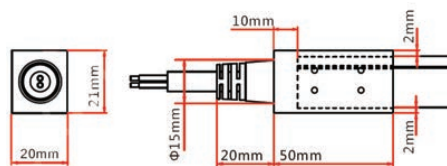
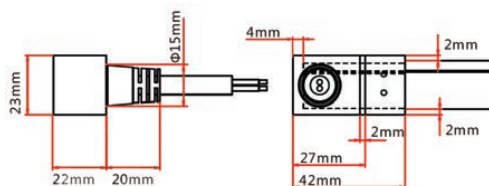
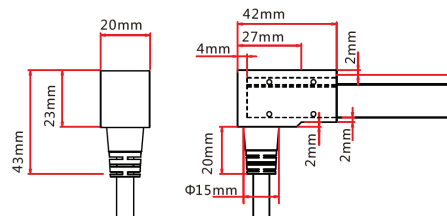
Maximum 4 T-Feeds per 10 m



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FloppyFlex®

EZ-CONNECT FLAT CONNECTORS IP67 PVC OR SILICONE



EZ-Connect Bottom Entry

Connects FloppyFlex Flat to power supply with user-installable end feed cable, IP67.

Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



EZ-Connect Side Entry

Connects FloppyFlex Flat to power supply with user-installable side feed cable, IP67.

Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



EZ-Connect End Entry

Connects FloppyFlex Flat to power supply with user-installable end feed cable, IP67.

Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



EZ-Connect End Cap

User-installable termination protection of FloppyFlex Flat, IP67.



EZ-Connect End Entry

Connects two pieces of FloppyFlex Flat together with a flexible cable, user-installable, IP67.

Cable length available in 0.3 m, 1 m, and 3 m.

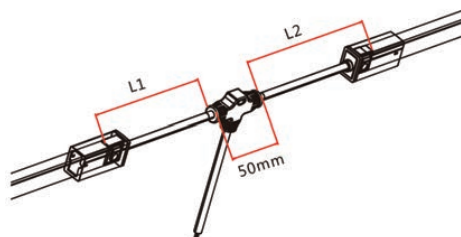
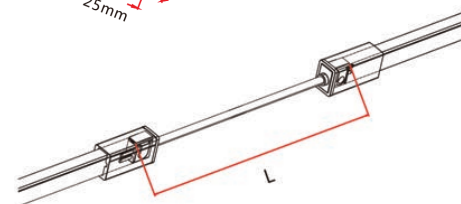
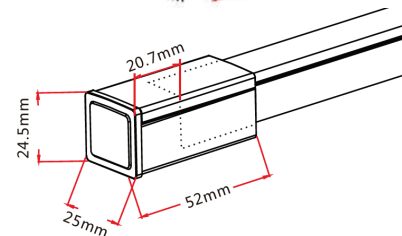
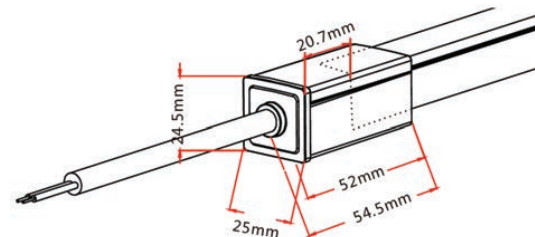
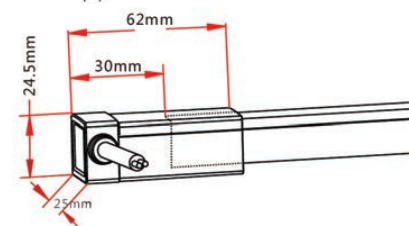
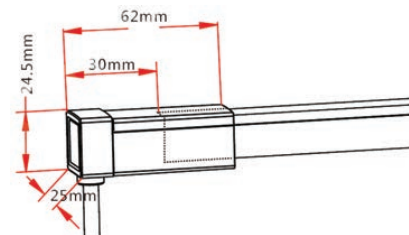


EZ-Connect T-Feed

Connects two pieces of FloppyFlex Flat together with powered T-joint, user-installable, IP67.

L1 and L2 length available in 0.3 m.

L3 length available in 1 m



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FloppyFlex®

MINI TOOL KIT ASSEMBLY TOOLS



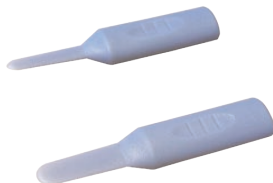
The FloppyFlex Mini Tool Kit includes the tools needed to properly cut and terminate FloppyFlex LED Neon with EZ-Connect field-installable connectors. Correct installation ensures proper electrical contact, IP rating integrity, and warranty compliance.

Includes cutter, insertion spreaders, and grippers.

We recommend using these tools for optimum installation results and reduced risk of damage to the product.



Cutter



Insertion Spreaders



Grippers

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DRIVERS



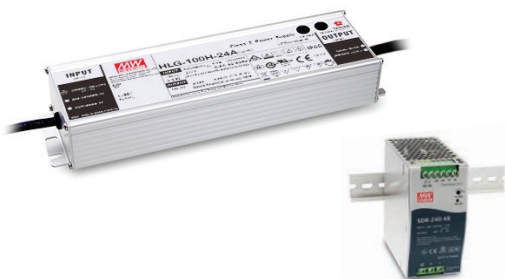
FloppyDrive DIN Rail Mount

- DMX dimming for 12 or 24V LED Tapes, Neons, and other low voltage systems of all types. Perfect for FloppyFlex and FloppyTape.
- Two 12V or 24V 2-, 3-, 4-, or 5-wire outputs
- Addressing, monitoring and reporting of all functions, via RDM
- 1200Hz flicker-free refresh rate
- Pluggable Terminal Block (PTB) screw terminals for bare-wire, installation flexibility
- More information and full specification sheets at <https://tmb.com/proplex-floppydrives>



FloppyDrive 4x2 24V PortableMount

- DMX Control for FloppyFlex LED neon, FloppyTape LED tape, and other 24 VDC LED neon or tape systems. (Max. length of runs per output varies with neon or tape product.)
- Two 24 VDC outputs. 12 VDC version also available
- Rugged, tour-ready ProPlex "Blue Box" PortableMount chassis. Packaged for extreme conditions. Shock-mounted circuitry. Advanced thermal management
- Color LCD Display with easy-function control buttons for easy setup and configuration
- Heavy-duty yoke for truss mounting. Optional RackMount Kit available.
- RDM functionality for complete system monitoring and addressing via RDM
- 2-, 3-, and 5-wire (1-, 2-, and 4-channel) versions also available
- More information and full specification sheets at <https://tmb.com/proplex-floppydrives>



Mean Well 24 VDC LED Drivers

- High efficiency 24VDC LED drivers in DIN Rail and stand-alone with multiple wattage configurations
- IP-rated units available.
- Fixed or dimmable output. Dimming available via 1-10VDC, 10V PWM signal, resistance, or built-in potentiometer.

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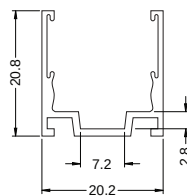


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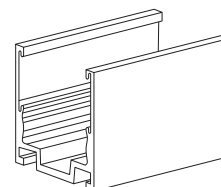
SELF-LOCKING ALUMINUM PROFILE V3 FFACKLF*MV3



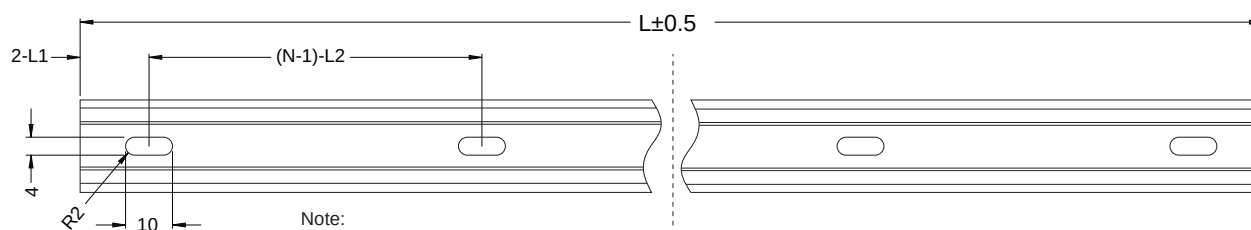
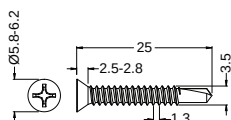
Versatile self-locking profile can be used to mount FloppyFlex Flat LED neon in any orientation including overhead at any angle. Extruded 6063 aluminum construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70 °C.



Tolerance: ±0.2 mm



Dimensions in millimeters



Note:

1. 2-L1 refers to two of symmetric L1 in each piece of profile.
 2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the table below.

Part Number	Length	L1	L2	Slotted Hole	Number of Holes
FFACKLF20MMV3	20 mm [0.787 in]	10 mm [0.39 in]	N/A	4x10 mm [0.16x0.39 in]	1
FFACKLF.5MV3	500 mm [19.68 in]	50 mm [1.97 in]	200 mm [7.87 in]	4x10 mm [0.16x0.39 in]	3
FFACKLF1MV3	1000 mm [39.37 in]	100 mm [3.93 in]	200 mm [7.87 in]	4x10 mm [0.16x0.39 in]	5
FFACKLF2MV3	2000 mm [78.74 in]	100 mm [3.93 in]	200 mm [7.87 in]	4x10 mm [0.16x0.39 in]	10

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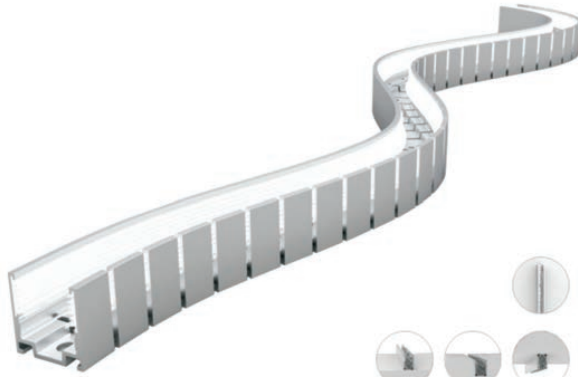
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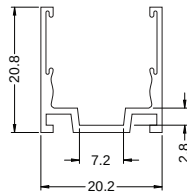
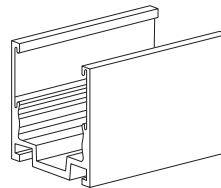


FloppyFlex®

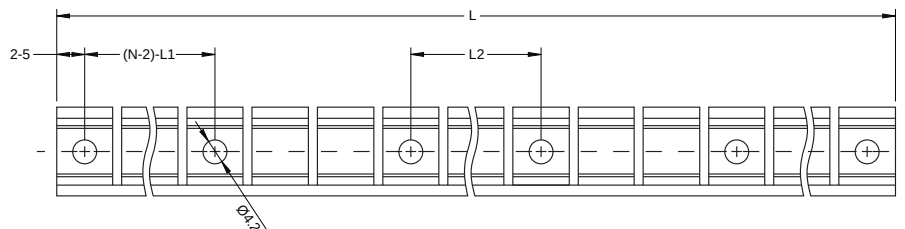
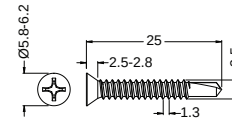
FLEXIBLE SELF-LOCKING ALUMINUM PROFILE FFACFLKF*M



Flexible self-locking profile can be used to mount FloppyFlex Flat STS LED neon in custom freeform curves while maintaining clamping force. May be mounted in any orientation including overhead at any angle.

Tolerance: ± 0.2 mm

Dimensions in millimeters

**Note:**

1. 2-5 refers to two of symmetric 5 mm in each piece of profile.
 2. (N-2)·L1 refers to (N minus two) of symmetric L1 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the table below.

Part Number	Length	L1	L2	Screw Hole	Number of Holes
FFACFLKF.5M	500 mm [19.68 in]	116.5 mm [4.59 in]	23.3 mm [0.92 in]	Ø4.2 mm [0.17 in]	6
FFACFLKF1M	1000 mm [39.37 in]	116.5 mm [4.59 in]	58.2 mm [2.29 in]	Ø4.2 mm [0.17 in]	10

Exclusive Distribution – The Americas, Europe, and Asia

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 Toronto
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Submitted by Swaney Lighting		Catalog Number: FACTORY ASSEMBLED FLOPPYFLEX FIXTURE SYSTEM Notes:	Type: BL SLA20-47120
	Job Name: MERCY HOSPITAL SITE LIGHTING		

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LTR-4RD

LITEISTRY 4" ROUND DOWNLIGHT

FEATURES

- 4" architectural LED downlight delivering 600 – 4000 lm
- Five beam distributions from 0.3 to 1.2 Spacing Criteria
- Quiet reflector appearance with superior 50° optical cutoff
- 2700K – 5000K, 80+ and 90+ CRI options
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, Lutron Forward Phase and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC, Chicago Plenum and IC options
- Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity spun aluminum reflector, self-flanged
- Flush Mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >55,000 hours (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options
- Integral and remote emergency controller and battery pack options available
- NX or Lutron Vive control options available
- Refer to additional spec sheets for information on [SpectraSync™ Tunable White or Dim-to-Warm](#) or [PowerHUBB™ PoE enabled](#) solutions

INSTALLATION

- Accommodates ceiling thickness up to 2"
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling, EM/ EMR: Suitable for damp locations.
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- ENERGY STAR® certified models available (See list and additional information on page 7)
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See [Buy American Solutions](#).

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information



RELATED PRODUCTS

- [LTR-4RD-RFH Retrofit](#)
- [4" LITEISTRY Family](#)

- [LTR-4RD SpectraSync](#)
- [LTR-4RD PowerHUBB](#)

SERVICE PROGRAMS



KEY DATA	
Lumen Range	600-4000
Wattage Range	8-52
Efficacy Range (LPW)	90-99*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	65-433 (120V)

*Based on Specular, 35K, 80 CRI

Submitted by Swaney Lighting	Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: LTR-4RD-H-SL06L-DM1 / LTR-4RD-T SL30K8WD-S Notes:	Type: DL SLA20-47120
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LTR-4RD

LITEISTRY 4" ROUND DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

= Service Program



Click icons for a list of Stocked or Quick-Ship options

ORDERING GUIDE

Example: LTR-4RD-H-SL10L-DM1-LTR-4RD-T-SL35K8MD-S

CATALOG #

HOUSING

LTR-4RD-H													
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options		Control Options		Voltage		Housing Options	
LTR-4RD-H 4" Round Downlight New Construction Housing	SL Standard Lumen	06L	600	DM1	0-10V Dimming to 1%	NXE	NX Enabled, Dual SmartPorts ³	Standard 120-277V	CP	Chicago Plenum ^{7,9}			
		10L	1000	DM01	0-10V Dimming to < 1%	NXWE	NX Wireless Enabled ³		IC	IC rated ^{8,9}			
		15L	1500	DMX	DMX with RDM dimming to < 0.1% ²	NXWD	NX Wireless Enabled, Dual SmartPorts ³		EM	Emergency Battery Pack with integral test switch and indicator light ⁹			
	ML Medium Lumen	20L	2000	DALI	DALI Dimming to 1%	LV	Lutron Vive Enabled, 0-10V (requires 0-10V driver)		EMR	Emergency Battery Pack with remote test switch and indicator light ⁹			
		25L	2500	2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) ²				DTS	Device Transfer Switch with Dimming Bypass ^{9,11}			
		30L	3000	EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ²				GTD	Generator Transfer Device ⁹			
	HL High Lumen	35L	3500			LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)		F	Fuse			
		40L	4000										

TRIM

TRIM

LTR-4RD-T				
Aperture/Shape/Function	Lumen Package	CCT	CRI	Distribution
LTR-4RD-T 4" Round Downlight Light Engine/Trim Assembly	SL Standard Lumen	27K 2700K	8 80+CRI	VNR Very Narrow (0.3 SC/20") ¹³
	ML Medium Lumen	30K 3000K	9 90+CRI	NR Narrow (0.4 SC/29")
	HL High Lumen	35K 3500K		MD Medium (0.7 SC/44")
		40K 4000K		WD Wide (0.9 SC/61")
		50K 5000K ¹		XW Extra Wide (1.2 SC/78")

TRIM CONTINUED

Reflector Finish	Reflector Color	Flange Color Options	Lower Trim Options	Reflector Options
Finish not applicable with painted reflectors (WC or BC)	Standard Clear	Standard matches reflector color	EM Pre-punched reflector for EM integral test switch and indicator	AM Antimicrobial Coating ⁵
S Specular	CG Champagne Gold	WT White Flange ⁴	FM Flush Mount Mud-in Ring ¹⁰ WF Wide Flange	
SS Semi-Specular	BL Black	BT Black Flange ⁴		
MFC American Matte™	LW Light Wheat			
VS Softglow®	PW Pewter			
VSS SoftSheen™	WC Painted White Cone and Flange			
	BC Painted Black Cone and Flange			

Accessories

- ☐ B24 Set of two (2) 24" bar hangers for T-bar ceilings
- ☐ B6 Set of two bar hangers for ceiling joist up to 24" centers
- ☐ FMR4-R Flush Mount Mud-In Ring Accessory, 4" Round
- ☐ LiteGear LiteGear® Inverter, 125VA-250VA
- ☐ LPS Series LightPower Micro-Inverter, 20VA-55VA
- ☐ MOR4-R-WH Metal Oversized Ring, 4" Round, White (8.25" outside diameter)
- ☐ MOR4-R-BL Metal Oversized Ring, 4" Round, Black (8.25" outside diameter)
- ☐ LTR-SCA4-__ Sloped Ceiling Adapter, 4", White ¹²

Notes:

- 1 5000K available in 80+ CRI only.
- 2 2DM, EDM, DMX available in 10L-35L.
- 3 NX requires DM1 driver option.
- 4 WT not needed for WC, BT not needed for BC.
- 5 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 6 347V requires DM1 driver option; not available in 06L or with Controls F, DTS, GTD, EM, EMR.
- 7 CP available up to 20L; not available with DMX, Controls, or EMR options.
- 8 IC available up to 20L; not available with Controls options.
- 9 Housing options (except Fuse) not available in combination.
- 10 Flush Mount Flange (FM) requires FMR accessory (sold separately).
- 11 DTS available with DM1, DM01, DALI, or EDM; not available with LVE.
- 12 Specify slope angle 5°-35° in 5° increments. Not available with EM, WF, or FM options.
- 13 VNR available up to 30L.

Submitted by Swaney Lighting		Catalog Number: LTR-4RD-H-SL06L-DM1 / LTR-4RD-T SL30K8WD-S Notes:	Type: DL SLA20-47120
	Job Name: MERCY HOSPITAL SITE LIGHTING		



LTR-4RD

LITEISTRY 4" ROUND DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ¹
NX Networked – Wireless								
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No ³
NX Networked – Wired/Wireless								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ^{1,3}

¹ NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network

² Programming via App requires factory assistance

³ To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

Submitted by Swaney Lighting	Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: LTR-4RD-H-SL06L-DM1 / LTR-4RD-T SL30K8WD-S Notes:	Type: DL SLA20-47120
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LTR-4RD

LITEISTRY 4" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	"Delivered Lumens"	Watts	LPW
06L	600	Very Narrow	691	7.6	91
		Narrow	785	7.8	101
		Medium	726	7.8	93
		Wide	664	7.8	85
		Extra Wide	644	7.8	83
10L	1000	Very Narrow	1132	11.8	96
		Narrow	1255	12.0	105
		Medium	1160	12.0	97
		Wide	1062	12.0	89
		Extra Wide	1030	12.0	86
15L	1500	Very Narrow	1623	17.2	94
		Narrow	1795	18.6	97
		Medium	1660	18.6	89
		Wide	1519	18.6	82
		Extra Wide	1474	18.6	79
20L	2000	Very Narrow	2032	22.4	91
		Narrow	2238	22.5	99
		Medium	2152	22.5	96
		Wide	2059	22.5	92
		Extra Wide	2028	22.5	90
25L	2500	Very Narrow	2447	28.6	86
		Narrow	2985	27.8	107
		Medium	2760	27.8	99
		Wide	2526	27.8	91
		Extra Wide	2451	27.8	88
30L	3000	Very Narrow	2855	35.9	80
		Narrow	3583	34.6	104
		Medium	3313	34.6	96
		Wide	3032	34.6	88
		Extra Wide	2941	34.6	85
35L	3500	Narrow	4280	42.9	100
		Medium	3957	42.9	92
		Wide	3622	42.9	84
		Extra Wide	3514	42.9	82
40L	4000	Narrow	4885	51.5	95
		Medium	4517	51.5	88
		Wide	4134	51.5	80
		Extra Wide	4011	51.5	78

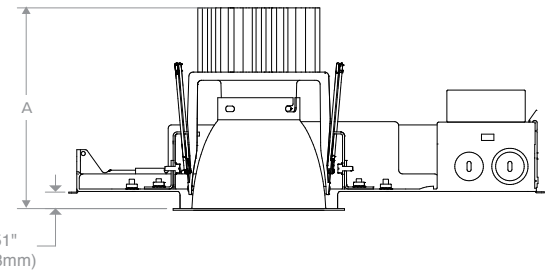
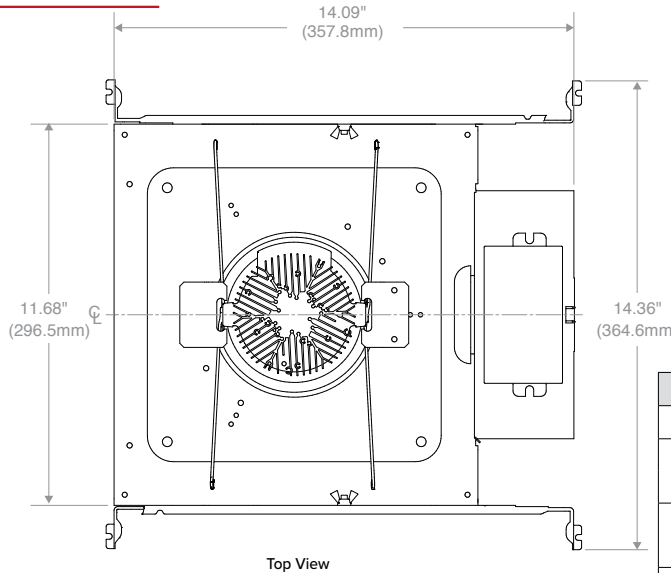
**LTR-4RD**

LITE|STRY 4" ROUND DOWNLIGHT

DATE: _____ LOCATION: _____

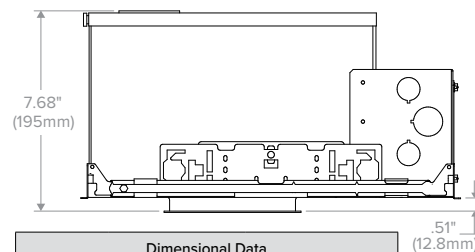
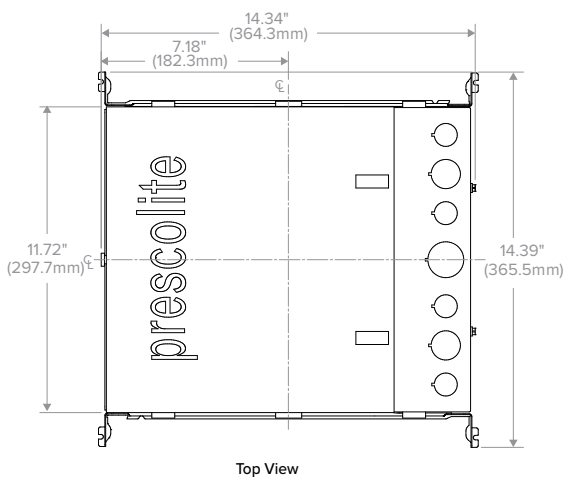
TYPE: _____ PROJECT: _____

CATALOG #: _____

DIMENSIONS

Dimensional Data			Lumen Package	"A"
Aperture	4.00" (101.6mm)		06L-15L	4.97" (126.2mm)
			20L-30L	6.15" (156.2mm)
Flange:	Standard	5.25" (133.4mm)	35L-40L	7.33" (186.2mm)
	Flush Mount	4.50" (114.3mm)		
Ceiling Cutout:	Standard	5.00" (127.0mm)		
	Flush Mount	5.12" (130.0mm)		
Ceiling Thickness:	Standard or w/ SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)		
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)		

SCA Sloped Ceiling Adapter accessory available, see [LTR-SCA specification sheet](#) and [installation instructions](#) for dimensional data and other details.

LTR-4RD-H New Construction

Dimensional Data		
Aperture	4.00" (101.6mm)	
Flange:	Standard	5.25" (133.4mm)
	Flush Mount	4.50" (114.3mm)
Ceiling Cutout:	Standard	5.00" (127.0mm)
	Flush Mount	5.12" (130.0mm)
Ceiling Thickness:	Standard or w/ SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see [LTR-SCA specification sheet](#) and [installation instructions](#) for dimensional data and other details.

LTR-4RD-H IC/CP


Job Name:
 MERCY HOSPITAL SITE LIGHTING

Catalog Number:
 LTR-4RD-H-SL06L-DM1 / LTR-4RD-T
 SL30K8WD-S

Notes:

Type:

DL

SLA20-47120

**LTR-4RD**

LITEISTRY 4" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

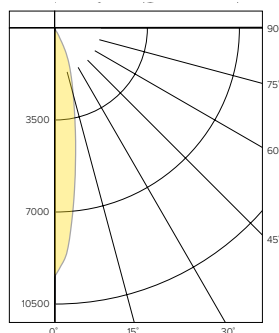
CATALOG #:

PHOTOMETRY**LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8VNR-S****LUMINAIRE DATA**

Test No.	20.01331
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	2032
Watts	22.4W
Efficacy	91
Mounting	Recessed
Spacing Criterion	0.3
Beam Angle (FWHM)	20

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2011	99.0
0-60	2032	100.0
0-90	2032	100.0
0-180	2032	100.0

POLAR GRAPH**CANDELA DISTRIBUTION**

Degree	Candela
0	9388
5	7360
15	2780
25	1073
35	198
45	20
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	3489
55°	0
65°	0
75°	0
85°	0

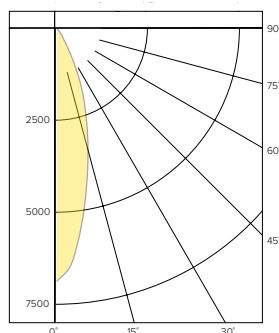
*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8NR-S**LUMINAIRE DATA**

Test No.	19.00532
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2238
Watts	22.5W
Efficacy	99.3
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	29

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2208	98.6
0-60	2237	99.9
0-90	2238	100.0
0-180	2238	100.0

POLAR GRAPH**CANDELA DISTRIBUTION**

Degree	Candela
0	6877
5	6035
15	3284
25	1313
35	260
45	26
55	3
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4535
55°	645
65°	292
75°	0
85°	0

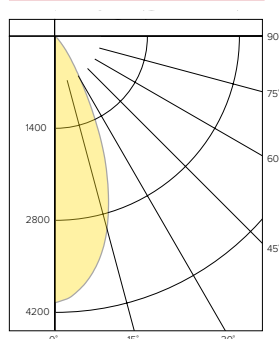
*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8MD-S**LUMINAIRE DATA**

Test No.	19.00533
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	2152
Watts	22.5W
Efficacy	95.6
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	44

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2113	98.2
0-60	2151	99.9
0-90	2152	100.0
0-180	2152	100.0

POLAR GRAPH**CANDELA DISTRIBUTION**

Degree	Candela
0	4053
5	3893
15	3037
25	1493
35	366
45	34
55	3
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	5931
55°	645
65°	292
75°	0
85°	0

*Candela/Square Meter

**LTR-4RD**

LITEISTRY 4" ROUND DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

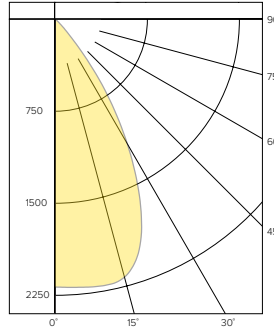
CATALOG #: _____

PHOTOMETRY CONTINUED**LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8WD-S****LUMINAIRE DATA**

Test No.	19.00534
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	2059
Watts	22.5W
Efficacy	91.6
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	61

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1983	96.3
0-60	2056	99.8
0-90	2059	100.0
0-180	2059	100.0

POLAR GRAPH**CANDELA DISTRIBUTION**

Degree	Candela
0	2201
5	2210
15	2051
25	1504
35	692
45	169
55	10
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	11338
55°	1075
65°	584
75°	477
85°	0

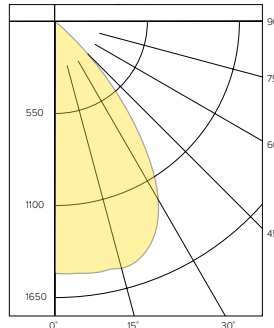
*Candela/Square Meter

LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8XW-S**LUMINAIRE DATA**

Test No.	19.00535
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	2028
Watts	22.5W
Efficacy	90.2
Mounting	Recessed
Spacing Criterion	1.2
Beam Angle (FWHM)	78

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1794	88.5
0-60	2025	99.8
0-90	2028	100.0
0-180	2028	100.0

POLAR GRAPH**CANDELA DISTRIBUTION**

Degree	Candela
0	1235
5	1252
15	1392
25	1454
35	1010
45	256
55	6
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	44656
55°	1290
65°	584
75°	231
85°	477

*Candela/Square Meter

LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

REFLECTOR FINISH MULTIPLIER (Based on Clear (Standard) Color)

Option	Specular (S)	Semi-Specular (SS)	American Matte (MFC)	Softglow (VS)	Softsheen (VSS)
Multiplier	1	1	0.984	0.888	0.938

REFLECTOR COLOR MULTIPLIER (Based on Semi-Specular (SS) Finish)

Option	Clear (Standard)	Champagne Gold (CG)	Black (BL)	Light Wheat (LW)	Pewter (PW)	White Cone (WC)	Black Cone (BC)
Multiplier	1	0.974	0.444	0.861	0.915	0.984	0.442

Multiply FINISH x COLOR to calculate other reflector finish and color combinations. Example: SoftGlow Pewter (VSPW) = 0.888 (VS) x 0.915 (PW) = 0.813



Job Name:
MERCY HOSPITAL SITE LIGHTING

Catalog Number:

LTR-4RD-H-SL06L-DM1 / LTR-4RD-T
SL30K8WD-S

Notes:

Type:

DL

SLA20-47120



LTR-4RD

LITEISTRY 4" ROUND DOWNLIGHT

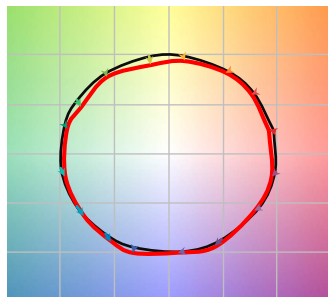
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TYPE: _____ PROJECT: _____

CATALOG #: _____

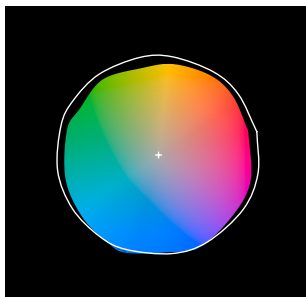
TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



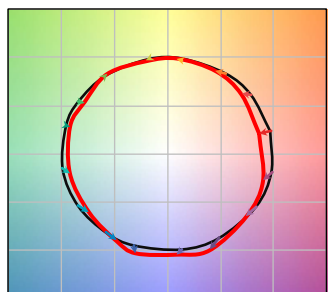
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 90 CRI



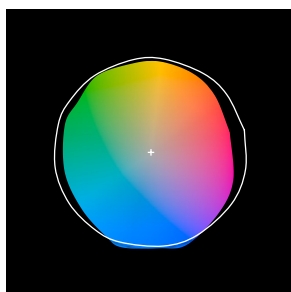
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_t	84	88
R_g	95	95
CCT (K)	3411	3419
D_{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_g	11	62

COLOR VECTOR GRAPHIC
3500K, 80 CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 80 CRI



HUBBELL
Lighting

Submitted by Swaney Lighting	Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: LTR-4RD-H-SL06L-DM1 / LTR-4RD-T SL30K8WD-S Notes:	Type: DL SLA20-47120
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LTR-4RD

LITEISTRY 4" ROUND DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	347 V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A

* Values for DM1 option shown, values for other dimming options may vary.

WATTAGE DATA		
Lumen Output	Nominal Lumens	Wattage
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43
40L	4000	52

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1 /DM01	Lutron DDTV	http://bit.ly/1jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1Bjn2R9
EDM	Lutron	http://bit.ly/1vtjHA1
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

See instruction sheet on www.prescolite.com for connection & installation information.

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

LPS Series: www.dual-lite.com/products/lps

ENERGY STAR®

For a list of certified models, click on the ENERGY STAR® MODELS link or visit www.energystar.gov.

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Submitted by Swaney Lighting		Catalog Number:	Type:
	Job Name: MERCY HOSPITAL SITE LIGHTING	LTR-4RD-H-SL06L-DM1 / LTR-4RD-T SL30K8WD-S Notes:	DL SLA20-47120

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Submitted by Swaney Lighting		Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: K51-T4-MO-9030-WIRED120-277V-PS520-188-** Notes: SPECIFY FINISH	Type: K4
			SLA20-47120	

Kick™ – K5 Medium Scale

TYPE

FEATURES

- Integral Motion Sensor
- wiScape enabled
- IDA approved
- 20kV/10kA surge protection
- ANSI C136.41 receptacle
- IES Type II, III and IV distributions
- 3000K , 4000K, 5000K CCT
- Integral thermal protection
- 0-10V dimming ready
- IP66 optical system
- 120-277, 347 and 480VAC input
- Staggered twin mounting
- ANSI C136.31-2010 4G Rated



3000K and warmer CCTs only
MO-XX30 configurations only

See Certification Specifications

ORDERING CODE

1	2	3	4	5	6	7	8	9	10
Model	Optics	Optical Finish	Light Engine	Controls	Fuse	Voltage	Mounting	Mounting Options	Fixture Finish

1. MODEL

5" wide luminaire

- K51 Single fixture**
- K52 Two fixtures 180° apart
- K53 Three fixtures 90° apart
- K54 Four fixtures 90° apart

2. OPTICS

Distribution Type, see "Luminaire Performance" on page 3

T2 IES Type II

T3 IES Type III

T4 IES Type IV

3. OPTICAL FINISH

Standard white or may choose one. See

'Luminaire Performance' on page 3 for detail.

MO Optics in Matte Black finish^{OS}

FO Optics in fixture finish

4. LIGHT ENGINE

See 'Luminaire Performance' on page 3 for detail, 70 CRI

- 18050 18,000 nominal lumens, 5000K CCT, 174 watts
- 18040 18,000 nominal lumens, 4000K CCT, 174 watts
- 18030 18,000 nominal lumens, 3000K CCT, 174 watts
- 12050 12,000 nominal lumens, 5000K CCT, 122 watts
- 12040 12,000 nominal lumens, 4000K CCT, 122 watts
- 12030 12,000 nominal lumens, 3000K CCT, 122 watts
- 9050 9,000 nominal lumens, 5000K CCT, 87 watts
- 9040 9,000 nominal lumens, 4000K CCT, 87 watts
- 9030 9,000 nominal lumens, 3000K CCT, 87 watts**

560nm monochromatic amber and or custom lumen package available by request. ¹

5. CONTROL

May choose one

- MCPCR 7-Position Receptacle
- WIR wiScape connectivity
- WIRSC wiScape + motion sensor
- SCP Motion sensor + Photocell ⁴
- SWP SiteSync Pre-commissioned ⁵
- SWPM SiteSync Pre-commissioned + Motion Sensor⁶

SCPREMOTE Handheld commissioning tool ⁴

SWUSB SiteSync loaded on USB flash drive (Windows® operating system only) ⁶

SWTAB SiteSync Windows® based Tablet ⁶

SWBRG SiteSync Wireless Bridge Node ⁶

SW7PR SiteSync 7 Pin on fixture module On/ Off/ Dim, Daylight Sensor 120-480VAC

6. FUSE

May choose one

- SF 120, 277, 347 Volt input
- DF 208, 240, 480 Volt input

7. VOLTAGE

120-277VAC input standard or may choose one

- 347 347VAC input
- 480 480VAC input

8. MOUNTING

Integral Aluminum Pole

- PS510-188 10' luminaire height
- PS512-188 12' luminaire height
- PS514-188 14' luminaire height
- PS516-188 16' luminaire height
- PS518-188 18' luminaire height
- PS520-188 20' luminaire height**

Integral Steel Pole

- PS525-250 25' luminaire height
- PS530-250 30' luminaire height

Tenon Mount

- TA23 Slips over a 2 3/8" / 60mm
Ø x 4" / 102mm tall tenon

Side Mount

- SMK Mounts to the side of a square pole,
K51 only

Wall Mount

- WMK K51 only

9. MOUNTING OPTIONS

Twin mount at staggered heights

Mounting holes for a fixture at 180°, K51...PS5... only, may choose one

- TS8 8' from bottom
- TS10 10' from bottom
- TS12 12' from bottom
- TS14 14' from bottom
- TS16 16' from bottom
- TS18 18' from bottom

Pole Accessories

May choose one

- GFI GFCI receptacle, 24" from top of pole
- RBC Duplex receptacle box with clear cover,
wiring device(s) not included

10. FIXTURE FINISH

Specify Std. finish

- AGN Antique Green
- BL Black
- BLT Matte Black
- CRT Corten
- DB Dark Bronze
- DGN Dark Green
- GT Graphite
- LG Light Grey
- MAL Matte Aluminum
- MDB Bronze Metallic
- MG Medium Grey
- TT Titanium
- WH Arctic White
- WDB Weathered Bronze
- VBU Verde Blue

Premium Color

- SHK Shamrock
- SPP Salt and Pepper
- SFM Seafoam
- WCP Weathered Copper
- RAL RAL 4 digit Color
- CUSTOM Custom Color

¹ Contact factory

⁴ Handheld commissioning tool is required to separately configure or adjust any number of SCP sensors

⁵ Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.

⁶ When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.



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JOB	_____
TYPE	_____
NOTES	_____

| 1 |



Job Name:
MERCY HOSPITAL SITE LIGHTING

Catalog Number:
K51-T4-MO-9030-WIRED120-277V-
PS520-188-**

Notes: SPECIFY FINISH

Type:

K4

SLA20-47120

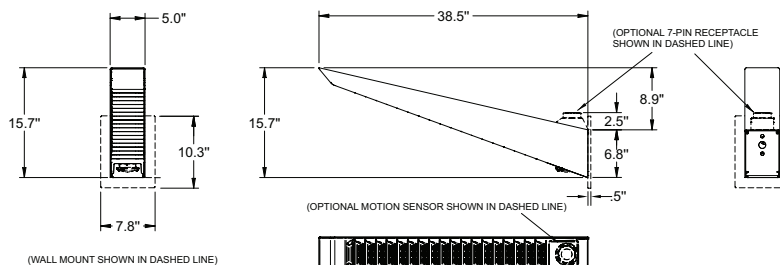
Kick™ – K5 Medium Scale

TYPE

Side Mounted Luminaire

Mounts to the side of 5"/127mm square pole.

MODEL	K51-...-SMK
OVERALL HEIGHT	15.7" / 399mm
OVERALL LENGTH	38.6" / 980mm
OVERALL WIDTH	5" / 127mm
WEIGHT	20 lbs.
EPA	1.4

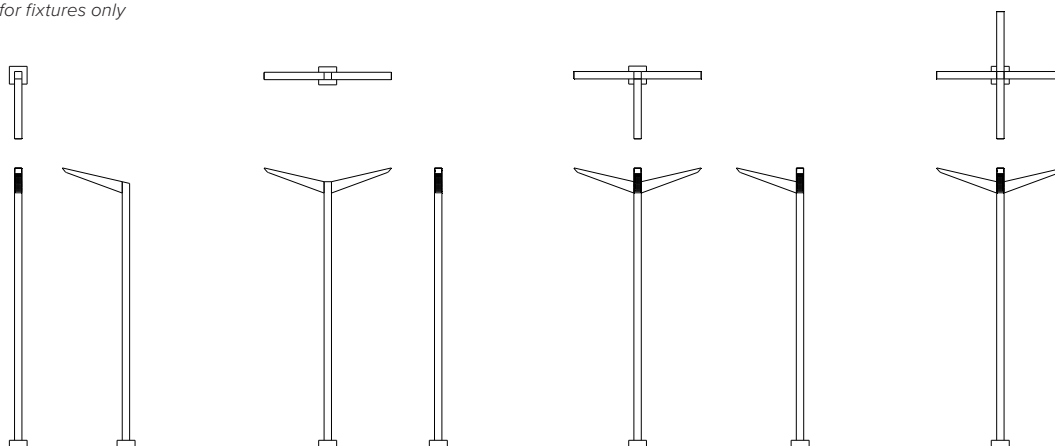


(WALL MOUNT SHOWN IN DASHED LINE)

Integral Pole Luminaire

See page 6 for height and mounting detail

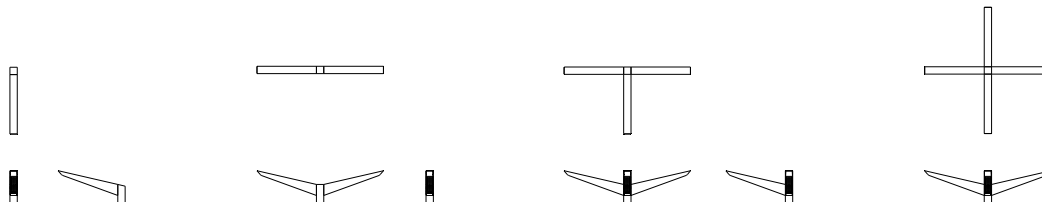
* Weight and EPA for fixtures only



MODEL	K51-...-PS5XX-188	K52-...-PS5XX-188	K53-...-PS5XX-188	K54-...-PS5XX-188
OVERALL LENGTH	43.5" / 1106mm	15.5" / 390mm	49" / 1238mm	82" / 2083mm
OVERALL WIDTH	15.5" / 390mm	82" / 2083mm	82" / 2083mm	82" / 2083mm
WEIGHT	20 lbs.	40 lbs.	60 lbs.	80 lbs.
EPA*	1.4	2.7	3.1	3.1

Tenon Mount Luminaire

Slips over a 2 3/8"/60mm diameter by 4"/102mm tall tenon



MODEL	K51-...-TA23	K52-...-TA23	K53-...-TA23	K54-...-TA23
OVERALL HEIGHT	19" / 483mm	19" / 483mm	19" / 483mm	19" / 483mm
OVERALL LENGTH	43.5" / 1106mm	5" / 127mm	43.5" / 1106mm	82" / 2083mm
OVERALL WIDTH	5" / 127mm	82" / 2083mm	82" / 2083mm	82" / 2083mm
WEIGHT	25 lbs.	40 lbs.	55 lbs.	70 lbs.
EPA	1.8	3.2	3.5	3.5



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JOB _____
TYPE _____
NOTES _____

| 2 |

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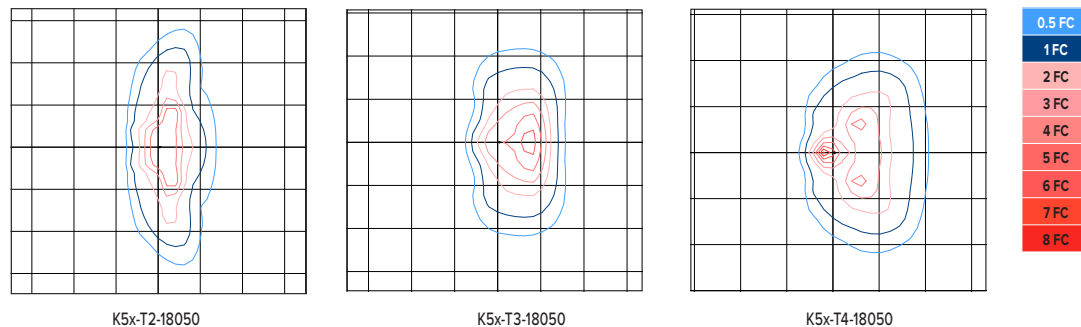
TYPE

LUMINAIRE PERFORMANCE

Configuration				Ordering Code														Average System Watts	
Light Engine	Optical Finish	Distribution	Ordering Code	Bright White (5000K)					Neutral White (4000K)					Warm White (3000K)					
				Delivered Lumens	Efficacy (Lm/W)	B	U	G	Delivered Lumens	Efficacy (Lm/W)	B	U	G	Delivered Lumens	Efficacy (Lm/W)	B	U		G
				18050					18040					18030					174
18000 series	Standard White	Type 2	T2	17910	103	3	3	3	17532	101	3	3	3	17006	98	3	3	3	
		Type 3	T3	17721	102	3	3	3	17347	100	3	3	3	16826	97	3	3	3	
		Type 4	T4	18763	108	3	3	2	18080	104	3	3	2	17537	101	3	3	2	
		Type 2	T2-FO	14593	84	3	3	3	14286	82	3	3	3	13856	80	3	3	3	
	Fixture Matched	Type 3	T3-FO	14497	84	2	3	2	14191	82	2	3	2	13765	79	2	3	2	
		Type 4	T4-FO	15794	91	3	3	2	15460	89	2	3	2	14996	86	2	3	2	
		Type 2	T2-MO	15315	88	3	0	2	14787	85	3	0	2	14343	83	3	0	2	
		Type 3	T3-MO	15153	87	2	0	2	14631	84	2	0	2	14192	82	2	0	2	
	Matte Black	Type 4	T4-MO	15794	91	3	0	2	15249	88	3	0	2	14791	85	3	0	2	
						12050					12040					12030			
12000 series	Standard White	Type 2	T2	13369	109	3	3	3	13087	107	3	3	3	12694	104	3	3	3	
		Type 3	T3	13228	108	2	3	2	12949	106	2	3	2	12560	103	2	3	2	
		Type 4	T4	13787	112	3	3	2	13496	110	2	3	2	13091	107	2	3	2	
		Type 2	T2-FO	10893	90	3	3	3	10664	88	3	3	3	10344	85	3	3	3	
	Fixture Matched	Type 3	T3-FO	10821	89	2	3	2	10593	87	2	3	2	10275	84	2	3	2	
		Type 4	T4-FO	11789	97	3	3	2	11541	95	2	3	2	11194	92	2	3	2	
		Type 2	T2-MO	10893	90	3	0	2	10664	88	3	0	2	10343	85	3	0	2	
		Type 3	T3-MO	10821	89	2	0	2	10593	87	2	0	2	10275	84	2	0	2	
	Matte Black	Type 4	T4-MO	11789	97	2	0	2	11541	95	2	0	2	11194	92	2	0	2	
						9050					9040					9030			
9000 series	Standard White	Type 2	T2	10103	117	2	3	2	9895	114	2	3	2	9692	111	2	3	2	
		Type 3	T3	9920	115	2	2	2	9715	112	2	2	2	9462	109	2	2	2	
		Type 4	T4	10437	119	2	3	2	10223	117	2	3	2	9957	114	2	3	2	
		Type 2	T2-FO	8171	94	2	3	2	8003	92	2	3	2	7794	90	2	3	2	
	Fixture Matched	Type 3	T3-FO	8118	94	2	2	2	7951	92	2	2	2	7744	89	2	2	2	
		Type 4	T4-FO	8927	103	2	3	2	8744	100	2	3	2	8516	98	2	3	2	
		Type 2	T2-MO	8171	94	2	0	1	8003	92	2	0	1	7794	90	2	0	1	
		Type 3	T3-MO	8118	94	1	0	1	7951	92	1	0	1	7744	89	1	0	1	
	Matte Black	Type 4	T4-MO	8927	103	2	0	2	8744	101	2	0	2	8516	98	2	0	2	

-MO.ies files should be used for -FO configurations in application layouts.

ISOLINE TEMPLATES 30' Mounting Height



ELECTRICAL CHARACTERISTICS

Ordering Code	LED Current (mA)	System Wattage (W)	Input				Min. Power Factor	Max THD (%)	Dimming Range (V)	Source/Sink Current (mA)	Inrush Current Peak											
			Amps AC								HZ	(A)				T@50% (μs)						
												120	277	347	480	120	277	347	480			
180XX	1000	173	1.4	0.6	0.5	0.4	50/60	>0.9	20	0-10	1	44	131	48	127	190		400	140			
120XX	700	122	1.0	0.4	0.4	0.3																
90XX	500	87	0.7	0.3	0.3	0.2																

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JOB _____
 TYPE _____
 NOTES _____

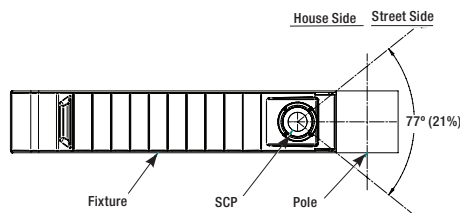


Kick™ – K5 Medium Scale

TYPE

SENSOR DETECTION RANGE

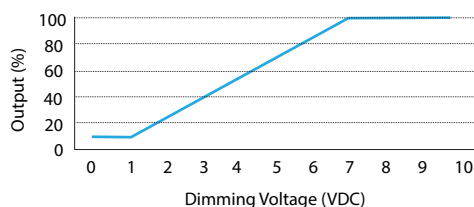
		SENSOR MOUNTING HEIGHT								RATIO
		8'	10'	12'	14'	16'	18'	20'		
COVERAGE DIAMETER	SCP	20'	25'	30'	35'	40'	45'	50'	1:2.5	
	WIRSC	16'	20'	24'	28'	32'	36'	40'	1:2	



TM-21 LIFETIME CALCULATION

Ambient Environment °C	Projected Lumen Maintenance (Khrs)					Reported L70
	25	50	60 (TM-21)	75	100	
25	98%	97%	96%	95%	94%	>60Khrs.
40	97%	96%	95%	94%	93%	

DIMMING CURVE



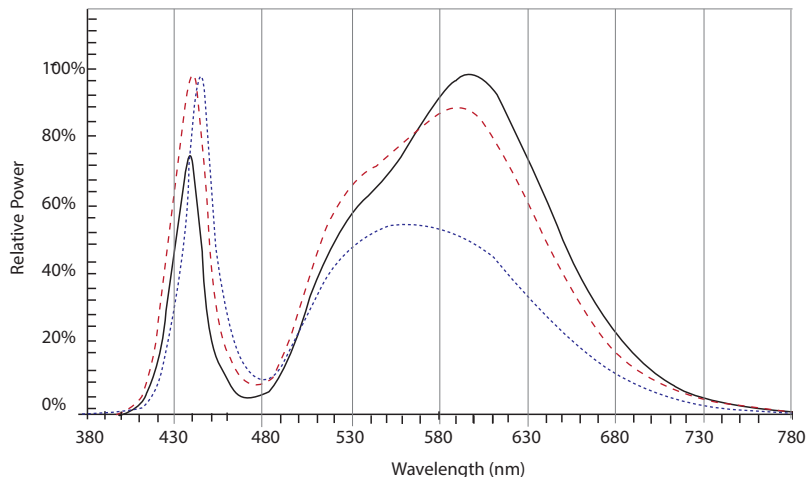
Note: Fixture does not dim to off, fixture dims to 10% minimum output.

COLOR CHARACTERISTICS

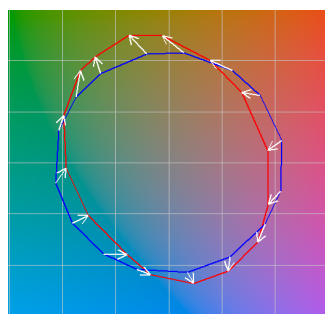
Value	Ordering Code		
	XX30	XX40	XX50
Rf	69	69	71
Rg	99	99	98
CCT(K)	3122	3852	5020
Duv	0.001	0.0004	0.0005
CIE Ra	74	73	74

Note: TM-30 reported at the discrete LED level, not fixture level.

SPECTRAL POWER DISTRIBUTION COMPARISON

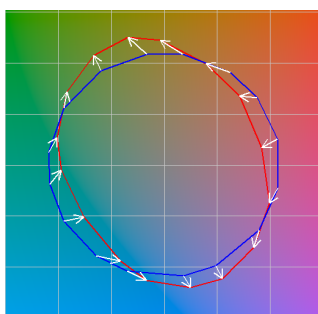


COLOR VECTOR GRAPHIC



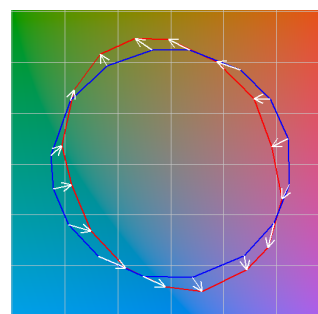
— Reference Illuminant — Test Source — Series1 — Series2 — Series3 — Series4 — Series5 — Series6 — Series7 — Series8 — Series9 — Series10

XX30



— Reference Illuminant — Test Source — Series1 — Series2 — Series3 — Series4 — Series5 — Series6 — Series7 — Series8 — Series9 — Series10

XX40



— Reference Illuminant — Test Source — Series1 — Series2 — Series3 — Series4 — Series5 — Series6 — Series7 — Series8 — Series9 — Series10

XX50



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JOB

TYPE

NOTES

| 4 |

Submitted by Swaney Lighting	Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: K51-T4-MO-9030-WIRED120-277V- PS520-188-** Notes: SPECIFY FINISH	Type: K4 SLA20-47120
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Kick™ – K5 Medium Scale

TYPE

SPECIFICATIONS

HOUSING

- Housing shroud shall be of fabricated 5052-H32 aluminum alloy with a rear mounting interface that shall be of fabricated 304 stainless steel.
- Housing mounting interface shall have a stamped silicone gasket.
- Luminaire housing shall be free of any visible heat fins, hardware or fasteners.
- Bracketry and hardware shall be stainless steel.

OPTICAL ARRAY

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features.
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to an extruded 6063-T6 aluminum alloy heat spreader and sealed with a continuous one piece injection molded silicone rubber gasket. IP66.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optical surfaces shall be painted white unless the optional fixture finish (FO) or matte black finish (MO) is selected.
- Optional matte black finish optics (MO) are required to meet UO classification with zero percent uplight.
- Optional fixture finish optical surfaces (FO) shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish (MO).

ELECTRICAL

- Drivers shall be in direct contact with the aluminum housing across the entire surface area of the widest face for maximum thermal transfer.
- Luminaires shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J. Surge protection device shall be wired in series.
- Drivers shall be U.L. recognized.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems approved dimmers include Lutron Diva AVTV, Lutron Nova NDTV and NDTV.
- Luminaire shall be capable of operating at

100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.

- Luminaires not configured with a control system or ANSI C136 receptacle option shall be provided with 0-10 purple and gray dimming leads.



CONTROLS

- Wireless enabled fixtures shall support bi-directional radio frequency (RF) communications utilizing IEEE 802.15.4 operating in the 2.4GHz ISM band.
- Up to 1000' wireless range may be reduced by physical obstructions between lighting fixtures.
- Motion Sensor shall use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.
- Factory default settings for SCP option shall be:
 - High mode: 10V
 - Low mode: 1V
 - Ramp-up rate: disabled
 - Fade-down rate: disabled
 - Photocell: Off
 - Sensitivity: Full
 - Time Delay: Fade to low: 5 minutes
 - Time Delay: Fade to off: 1 hour

MOUNTING AND INSTALLATION

- Integral pole mount luminaires shall require assembly of fixture(s) to the pole, mounting hardware, anchor bolts and anchor bolt template shall be included. *See page 6 for additional considerations specific to the integral pole.*
- Tenon mount luminaires shall require assembly of fixture(s) to the tenon adapter, mounting hardware shall be included. Tenon adapter shall be secured to the tenon with eight 5/16-18 stainless steel set screws.
- Side mount luminaires shall be supplied

with hardware compatible with AAL mountings.

- Twin mounted staggered height fixtures shall be configured separately.

SERVICING

- Service access to the optical array and driver assembly shall be via a tool-less internal latch and have an audible click.
- Optical array shall be able to hang freely in an open service position for inspection of internal wire connections. Once in service position, the optical array shall be able to be removed for service by lifting the assembly up off the rear hinge and disconnecting the wiring plugs.
- Driver assembly shall be mounted to a prewired internal tray with quick disconnects for removal.

FINISH

- Luminaire finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

- Luminaire shall be listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.
- ANSI C136.31-2010 4G Vibration tested and compliant.
- IEC 66262 Mechanical Impact Code IK10
- IDA approved, 3000K and warmer CCTs only.
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. [See Buy American Solutions.](#)

WARRANTY / TERMS AND CONDITIONS OF SALE

Download:
<http://www.hubbellighting.com/resources/warranty/>



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JOB	_____
TYPE	_____
NOTES	_____

| 5 |



Kick™ – K5 Medium Scale

TYPE

SPECIFICATIONS

Integral Pole

MODEL	HEIGHT		SHAFT		WT	MAXIMUM ALLOWABLE EPA (MPH)									
	OVERALL	POLE	SECTION	MATERIAL		85	90	100	105	110	120	130	140	145	150
K5X-PS510-188	10'9" / 3.28m	10'	5"SQ x .188"	ALUMINUM	61	25	25	23	20.5	18.5	15	12.3	10.1	9.1	8.3
K5X-PS512-188	12'9" / 3.89m	12'	5"SQ x .188"	ALUMINUM	69	25	22.5	17.8	15.7	14	11	8.7	6.9	6.1	5.4
K5X-PS514-188	14'9" / 4.50m	14'	5"SQ x .188"	ALUMINUM	78	20.6	17.9	13.7	11.9	10.4	7.9	6	4.4	3.7	3.1
K5X-PS516-188	16'9" / 5.10m	16'	5"SQ x .188"	ALUMINUM	86	16.5	14.1	10.4	8.9	7.6	5.4	3.7	2.3	1.7	1.1
K5X-PS518-188	18'9" / 5.71m	18'	5"SQ x .188"	ALUMINUM	95	12.9	10.9	7.6	6.3	5.1	3.2	1.7	0.5	-	-
K5X-PS520-188	20'9" / 6.32m	20'	5"SQ x .188"	ALUMINUM	103	9.8	8.1	5.2	4	3	1.3	-	-	-	-
K5X-PS525-250	25'9" / 7.85m	25'	5"SQ x .25"	STEEL	427	25	25	19.4	17.1	15.1	11.7	9	6.9	6	5.1
K5X-PS530-250	30'9" / 9.38m	30'	5"SQ x .25"	STEEL	507	20.1	17.3	12.7	10.9	9.3	6.6	4.5	2.8	2.1	1.4

CONSTRUCTION

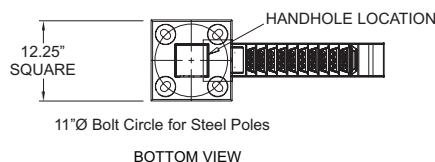
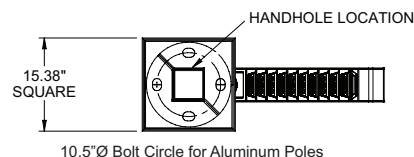
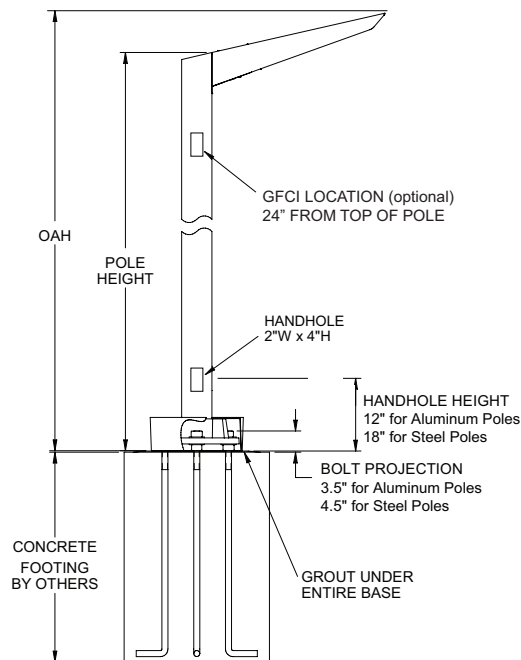
- Aluminum pole bases shall be cast aluminum #356 alloy and be heat treated to a T-6 condition.
- Aluminum pole shafts shall be extruded aluminum 6061 alloy and heat treated to a T-6 condition.
- Aluminum poles shall have a one-piece base cover included standard.
- Steel poles shall be one-piece straight steel with square cross section, flat sides and minimum 0.238" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36).
- Steel poles shall have a two-piece square aluminum base cover included standard.
- All poles shall be supplied with removable top cap.
- All poles shall have a hand hole with mounting provisions for grounding lug located behind a gasket lined cover.
- Anchor bolts shall be 1" x 36" x 4" hot dip galvanized steel, with two galvanized washers and two galvanized nuts per bolt.
- Bolt circle template shall be provided.

WARNINGS

- Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.
- AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.
- The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage may be attached to an AAL pole unless approved by AAL.
- If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising there from.

CAUTION

- Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire.



ARCHITECTURAL AREA LIGHTING
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JOB _____
 TYPE _____
 NOTES _____

| 6 |

**KIM LIGHTING**

Spun Copper Bullet C24

120 to 277 Volt Spun Copper LED

revision 11/7/14 • kl_c24led_spec.pdf

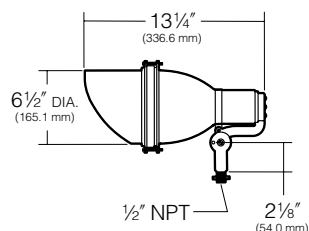
Type:
Job:
Mounting Options:**Approvals:****Fixture Catalog number:**

Fixture

 Ordered Separately from Fixture
 See pages 3-5

Date:
Page: 1 of 5

Specifications



Ordering Information

Fixture	Source
☐ C24S3/9L3KUV ¹	350mA, 11W, 9 LEDs, 3000K
☐ C24S3/9L4KUV ¹	350mA, 11W, 9 LEDs, 4200K
☐ C24S3/9L5KUV ¹	350mA, 11W, 9 LEDs, 5100K
☒ C24F3/9L3KUV ¹	350mA, 11W, 9 LEDs, 3000K
☐ C24F3/9L4KUV ¹	350mA, 11W, 9 LEDs, 4200K
☐ C24F3/9L5KUV ¹	350mA, 11W, 9 LEDs, 5100K

¹S = Spot, ¹F = Narrow Flood, ¹UV = Universal Voltage from 120 to 277V with a ±10% tolerance.

Housing and Shield: Spun copper with cast bronze clamping rings and swivel base.

Swivel: Cast bronze with set screw lock and 1/2" NPT plus solid brass locknut for mounting.

Optical System: High Performance acrylic lens optic securely attached to internal heat sink for maximum thermal dissipation.

Gasketing: Silicone gaskets throughout.

Fasteners: Brass and stainless steel.

Wiring: No. 18AWM rated 105°C.

Driver: Universal Voltage from 120 to 277V with a ±10% tolerance, -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.

Finish: Natural copper and bronze. Will rapidly age to a deep rich bronze color, and may develop areas of patina.

Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CAN/CSA C22.2 No. 250.0 -80 Luminaires, LEDs and drivers are RoHS compliant.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.


HUBBELL LIGHTING, INC.



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**KIM LIGHTING****Spun Copper Bullet C24**

120 to 277 Volt Spun Copper LED

revision 11/7/14 • kl_c24led_spec.pdf

Type:**Job:****Page: 2 of 5****Lumen Data****Spectroradiometric**

	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≥80	≥75	≥65
Power Factor	>.90	>.90	>.90

Electrical Drive Current

Current	C24		
	Volts -AC	Amps - AC	System Watts
350mA	120	0.09	11
	208	0.06	11
	240	0.05	11
	277	0.04	11

Absolute Lumens

Current	C24		
	Temp.	Spot	Narrow Flood
350mA	3000K	991	625
	4200K	1287	812
	5100K	1442	909

Main Beam Candela and Beam Angle

Current	C24				
	Temp.	Spot	Beam°	Narrow Flood	Beam°
350mA	3000K	7486	15°	2170	30°
	4200K	9722	15°	2819	30°
	5100K	10893	15°	3159	30°

Projected Lumen Maintenance

mA	50,000 hrs	100,000 hrs
350	96.15%	93.48%

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

**KIM LIGHTING**

Spun Copper Bullet C24

120 to 277 Volt Spun Copper LED

revision 11/7/14 • kl_c24led_spec.pdf

Type:**Job:****Page: 3 of 5**

Mounting Options

Ordered Separately from Fixture

Landscape Light Post by Engineered Products Co.

Cat. No.

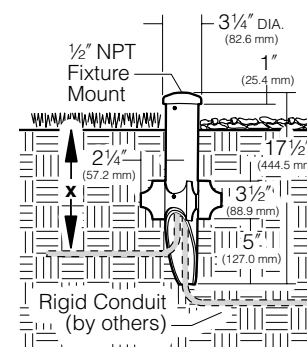
- ☐ EP17
☐ No Option

PVC fixture molded in black with 1/2" NPT mount is corrosion free and UV resistant. Replaces EMT, conduit connectors and weatherproof boxes. 100% shatter resistant against denting and cracking. Angled bottom to eliminate cable congestion.

17 1/2" post length

NOTE: EP17 should be used with a UL listed fixture and grounding means (i.e., third wire) suitable for use in wet locations.

"x" = required depth of conduit per local codes.



Architectural Junction Box

Cat. No.

Finish

- ☐ JB1/BL Black
☐ JB1/DB Dark Bronze
☐ JB1/GR Verde Green
☐ No Option

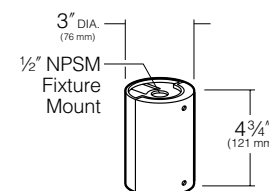
Die-cast aluminum with 1/2" NPSM fixture mount. Internal set screw provided for locking position. Two 1/2" NPSM in bottom, 17 cu in. internal volume. Super TGIC powder coat paint over clear anodizing and titanated zirconium conversion coating.

NOTE: May also be used to hard mount low voltage fixtures.

Application Notes

- Elevates Accent Lights above ground cover to prevent foliage from blocking the light.
- Elevates Path Lights above ground cover to achieve a greater light throw.

CAUTION: Junction box must be installed high enough to avoid contact with soil or standing water.



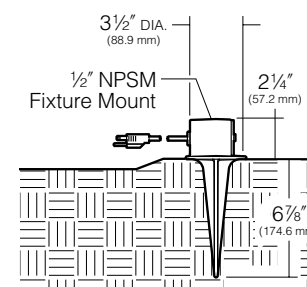
Portable Spear Mount

Cat. No.

- ☐ J-25N
☐ No Option

Cast iron with 1/2" NPSM fixture mount. Hot dip galvanized finish. 5.5 cu in. splice compartment. (SJTW-A) 3 wire cord and plug.

9' cord length





Spun Copper Bullet C24

120 to 277 Volt Spun Copper LED

revision 11/7/14 • kl_c24led_spec.pdf

Type:**Job:****Page: 4 of 5**

Mounting Options

Ordered Separately from Fixture

Brass In-grade Architectural Junction Box

Cat. No.

- ☐ JBR-2
☐ JBR-3
☐ JBR-21
☐ JBR-24
☐ No Option

Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 18 cu in. internal volume.

- JBR-2** (2) 1/2" NPT in bottom
JBR-3 (2) 3/4" NPT in bottom
JBR-21 (2) 1/2" NPT in sides, (2) 1/2" NPT in bottom
JBR-24 (4) 1/2" NPT in sides, (2) 1/2" NPT in bottom

All side taps provided with plugs.

NOTE: May also be used to hard mount low voltage fixtures.

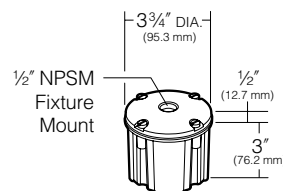
25 Year Limited Warranty:

Solid brass junction boxes are warranted for 25 years, from date of sale, against manufacturing defects and failure due to corrosion.

Application Notes

- Creates a flush-mounted appearance.
- May be cast in concrete for increased stability.

CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from junction box.



Brass In-grade Staked Junction Box

Cat. No.

- ☐ JBR30
☐ No Option

JBR30 BRASS IN-GRADE STAKED JUNCTION BOX

Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 18 cu in. internal volume.

- (2) 1/2" NPT in bottom with (2) 19" long brass stakes

NOTE: May also be used to hard mount low voltage fixtures.

Brass In-grade Staked Junction Box with Cord

Cat. No.

- ☐ JBR32
☐ No Option

JBR32 BRASS IN-GRADE STAKED JUNCTION BOX WITH CORD

Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 18 cu in. internal volume. (SJTW-A) 3 wire cord and plug.

- (2) 19" long brass stakes with 9' cord

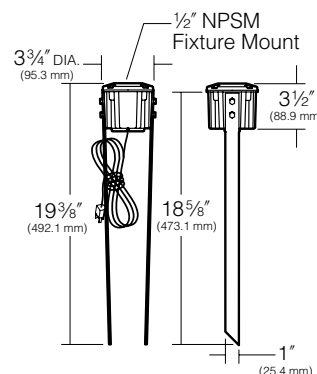
25 Year Limited Warranty:

Solid brass junction boxes are warranted for 25 years, from date of sale, against manufacturing defects and failure due to corrosion.

Application Notes

- Creates a flush-mounted appearance.
- May be cast in concrete for increased stability.

CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from junction box.



**KIM LIGHTING**

Spun Copper Bullet **C24** 120 to 277 Volt Spun Copper LED

revision 11/7/14 • kl_c24led_spec.pdf

Type:**Job:****Page: 5 of 5**

Mounting Options

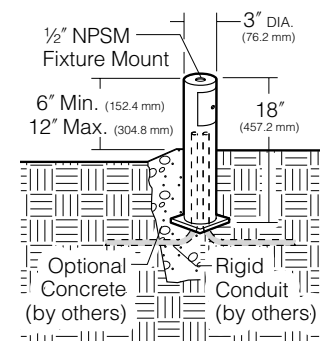
Ordered Separately from Fixture

Stanchion Mount

- Cat. No. Finish
- ☐ **SM18/BL** Black
- ☐ **SM18/DB** Dark Bronze
- ☐ **SM18/GR** Verde
- Green
- ☐ **No Option**

3" O.D. by .188" wall cast aluminum with 1/2" NPSM fixture mount and hand hole with flush cover. Internal set screw fixture lock accessible through hand hole. Internal ground lug supplied with installed lead. Super TGIC powder coat paint over clear anodizing and titanated zirconium conversion coating.

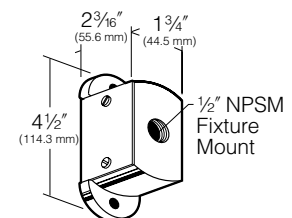
NOTE: May also be used to hard mount low voltage fixtures.

**Surface Mount**

- Cat. No. Finish
- ☐ **J-27N/BL** Black
- ☐ **J-27N/DB** Dark Bronze
- ☐ **J-27N/GR** Verde
- Green
- ☐ **No Option**

Cast aluminum with 1/2" NPSM fixture mount. Internal set screw provided for locking position. 5 cu in. internal volume. Super TGIC powder coat paint over clear anodizing and titanated zirconium conversion coating.

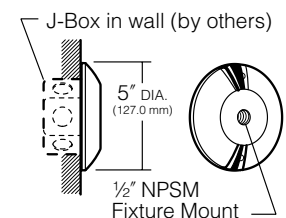
NOTE: May also be used to hard mount low voltage fixtures.

**Brass Architectural Wall Mount**

- Cat. No. Finish
- ☐ **JWBR/NB** Natural Brass
- ☐ **JWBR/VG** Verde Green Patina
- ☐ **No Option**

Die-cast brass with 1/2" NPSM fixture mount. Internal set screw provided for locking position. Canopy attaches to stainless steel wall plate for mounting to any standard electrical outlet box.

NOTE: May also be used to hard mount low voltage fixtures.



Submitted by Swaney Lighting		Catalog Number:	Type:
	Job Name: MERCY HOSPITAL SITE LIGHTING	C24F3/9L3KUV Notes:	TL SLA20-47120

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Wall, Step, Path Light **EL807**

120 / 277 Volt Die-Cast Aluminum LED

kl_el807_spec.pdf

Type:**Job:****Fixture Catalog number:**

_____/_____
 Fixture Mode Finish

Approvals:**Date:****Page: 1 of 2**

Specifications

Housing: Die-cast low copper alloy (<0.6% Cu) aluminum with clear anodized finish. Two 1/2" NPT in sides. Housing mounts into concrete, brick, or masonry (non-combustible materials). Internal splice area provided behind lamp plate.

Lens Frame: Die-cast aluminum, with silicone gasket, attaches to housing with two captive 10-32 stainless steel, hex socket cap screws.

Lens: Tempered prismatic glass with silicone gasket, concealed above lens frame opening.

Finish: On lens frame only, each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat finish. Standard colors are Black (**BL**), Dark Bronze (**DB**), and Verde Green (**GR**).

Optical System: A total of 3 or 9 LED emitters are configured together as a module. Available in 3000K, 4200K, and 5100K.

Driver: Universal Voltage from 120 to 277V with a ±10% tolerance. -40° F. starting temperature. All drivers are Underwriters Laboratories recognized.

ORDERING INFORMATION

Fixture	Source
☐ EL807 / 3L3KUV¹	3.6W, 3 LED's, 3000K
☐ EL807 / 3L4KUV¹	3.6W, 3 LED's, 4200K
☐ EL807 / 3L5KUV¹	3.6W, 3 LED's, 5100K

Fixture	Source
☒ EL807 / 9L3KUV¹	10.8W, 9 LED's, 3000K
☐ EL807 / 9L4KUV¹	10.8W, 9 LED's, 4200K
☐ EL807 / 9L5KUV¹	10.8W, 9 LED's, 5100K

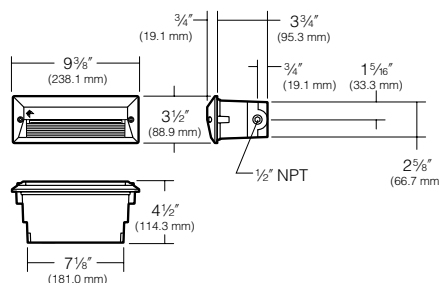
¹ Universal Voltage from 120 to 277V with a ±10% tolerance.

For 5.3W, Max Amps. are .13 for 120V, .080 for 208V, .080 for 240V, .060 for 277V. For 10.8W, Max Amps. are .090 for 120V, .050 for 208V, .040 for 240V, .040 for 277V..

Finish

- ☐ **BL** - Black
☐ **DB** - Dark Bronze
☐ **GR** - Verde Green

Specify Std. finish



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 January 8, 2021 7:47 AM

Listings and Ratings

UL cUL 1598¹ | 25C Ambient

¹Suitable for wet locations





Wall, Step, Path Light **EL807**

120 / 277 Volt Die-Cast Aluminum LED

revision 2/11/15 • kl_el807_spec.pdf

Type:**Job:****Page: 2 of 2**

Lumen Data

Spectroradiometric

	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≥75	≥70	≥65

ELECTRICAL - Drive Current @350mA (3 LEDs)

Volts -AC	Amps - AC	System Watts
120	0.13	5.3
208	0.08	5.3
240	0.08	5.3
277	0.06	5.3

ELECTRICAL - Drive Current @350mA (9 LEDs)

Volts -AC	Amps - AC	System Watts
120	0.09	10.5
208	0.05	10.5
240	0.04	10.5
277	0.04	10.5

Absolute Lumens (3 LEDs)

Temperature	EL807/3L*K
3000K	61
4200K	71
5100K	78

Absolute Lumens (9 LEDs)

Temperature	EL807/9L*K
3000K	167
4200K	188
5100K	211

Lumens Per Watt (3 LEDs)

Temperature	EL807/3L*K
3000K	11.5
4200K	13.4
5100K	14.7

Lumens Per Watt (9 LEDs)

Temperature	EL807/9L*K
3000K	15.9
4200K	17.9
5100K	20.1

Kim Lighting reserves the right to change specifications without notice.

KIMLIGHTING®

WDS
WALL MOUNTED

FEATURES

- -5° to +10° tilt adjustment
- High performance optics deliver up to 7,500 lumens
- up or down mountable without modification
- Programmable occupancy sensor (dimming)
- NX and SiteSync wireless controls
- 130+ lumens per watt
- UL/cUL listed for wet locations, IP66 Listed



CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE™

SPECIFICATIONS

CONSTRUCTION

- Optical housing is a one-piece, die-cast low copper (<0.6%) aluminum alloy with integral heat sink. The housing rotates against mounting arm housing to provide -5° to 10° of adjustment with degree markers label. At 0° adjustment, lens is totally concealed from view above horizontal with fixture mounted in the downward position.
- Mounting arm housing is one-piece die-cast, low copper (<0.6%) aluminum alloy with provisions for tilt mechanism. Mounting arm fastens to the mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on the tilt mechanism frees the optical housing to rotate for aiming. Tightening the screws locks the housing and lens frame together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.
- Lens Frame is a one-piece, die-cast low copper (<0.6%) aluminum alloy with integral cooling fins to dissipate driver thermal.
- Bracketry and hardware shall be stainless steel.
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat

OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB).
- Optical lenses are clear injection molded PMMA acrylic.
- Secondary lens is impact resistant 1/8" tempered glass with anti-reflective coating.

INSTALLATION

- Junction box (by others): Standard with steel, quick-mount junction box plate that mounts directly to 4" J-Box.
- Mounting plate is stainless steel and features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates.
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

SERVICING

- Housing should hang freely in an open service position for inspection of primary wire connections. Once in service position, the housing can be removed for service by sliding the assembly to the left (for down mounting) or to the right (for up mounting) and disconnecting the wiring plugs.
- Driver assembly shall be mounted to a prewired internal tray with quick disconnects for removal.

Wall Director Small

RELATED PRODUCTS

[Wall Director Medium](#)

ELECTRICAL

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories listed.
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories listed.
- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C
- Modular wiring harness in the service area provides user access to the dimming circuitry
- Optional factory programmed dimming profile
- Surge protection: 10,000k in parallel, 20,000k in series
- Wiring: No. 18AWM rated 90°C, wet rating.

(Specifications continued on page 3)

KEY DATA	
Lumen Range	2,855–8,567
Wattage Range	29–74
Efficacy Range (LPW)	89–129
Reported Life (Hours)	L70/60,000
Weight	20 lbs/9.07 kg

Submitted by Swaney Lighting	Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: WDS/D/24L-30/3K7/3/UNV/**	Type: W1
		Notes: SPECIFY FINISH	SLA20-47120



WDS
WALL MOUNTED

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: WDS-D-24L-30-3K7-1-UNV-BLS-PC-EM-SWUSB

CATALOG #

HOUSING

WDS					
Model	Mounting	Source	Wattage	Light Engine	Distribution
WDS WallDirector Small	D Down	24L 24 LEDs	30 30 Watts, 3000 lm	AM ⁶ Amber-595nm Peak	1 Type I
	U ¹ Up		40 40 Watts, 4500 lm	3K7 3000K/70CRI	2 Type II
			60 60 Watts, 6000 lm	3K8 3000K/80CRI	3 Type III
			75 75 Watts, 7500 lm	4K7 4000K/70CRI	4W Type IV Wide
				4K8 4000K/80CRI	4F Type IV Forward
				5K7 5000K/70CRI	WG ² Wall Graze
					SP Spot/Column
					FTD ² Forward Throw Diffuse
					WTD ² Wide Throw Diffuse

Specify Std. finish					
Voltage	Fixture Finish	Control Options	Options	Control Accessories	
UNV 120-277V	BLS Black Gloss Smooth	PC ³ Button Photocell	EM ³ Integral Battery Backup Unit (8W)	SCPREMOTE	SCP configuration tool
347 ^{3,10} 347V	BLT Black Matte Textured	SCP-8F ^{3,4,5,9} Programmable Occ. Sensor (<9' height)	SF Single Fuse & Fuse holder	SWUSB	SiteSync Software on USB
480 ^{3,10} 480V	DBS Dark Bronze Gloss Smooth	SCP-20F ^{3,4,5,9} Programmable Occ. Sensor (9' - 20' height)	DF Double Fuse & Fuse holder	SWTAB	SiteSync Windows [®] Tablet
	DBT Dark Bronze Matte Textured	SWP ^{3,4,5,7} SiteSync Wireless Pre-Commission	SCM1 1/2" Surface Conduit Mount	SWBRG	SiteSync Software Bridge Node
	GTT Graphite Matte Textured	NXWE ^{4,5} NX Wireless Enabled	SCM2 3/4" Surface Conduit Mount		
	LGS Light Grey Gloss Smooth				
	LGT Light Grey Matte Textured				
	PSS Platinum Silver Gloss Smooth				
	VGT Verde Green Matte Textured				
	WHS White Gloss Smooth				
	WHT White Matte Textured				
	Color Option				
	CC ⁸ Custom Color				

Notes:

- Not available with EM option or with SCP,SWPM, NXSPW14 and NXSP14F sensor options.
- WG, FTD, and WTD come with a diffused lens
- Not available with other control options
- Input voltage 120-347V
- Not available in 480V
- Turtle friendly
- Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
- Consult factory for custom color, marine and corrosive finish options
- SCPREMOTE SCP configuration tool needed.
- Not available with 30 watt or 40 watts

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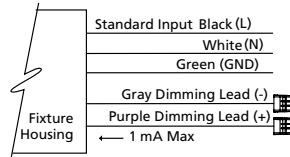


KIMLIGHTING®

SPECIFICATIONS (CONT')

DIMMING:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.



- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.

BUTTON PHOTOCELL

- Optional universal voltage (120-277V) button photocontrol for dusk to dawn energy savings. Photocontrol is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

WIRELESS CONTROLS SITESYNC™1

- SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit www.hubbellighting.com/products/sitesync for more details.

NX DISTRIBUTED INTELLIGENCE™

- Hubbell Control Solutions' NX Distributed Intelligence™ lighting control platform utilizes a Distributed Network Architecture (DNA) that connects intelligent devices including luminaires, controllers, panels, occupancy sensors, photocells, wall switches and dimmers, creating a system with an unmatched level of reliability, scalability and simplicity

OPTIONAL FUSING:

- SF for 120, 277, and 347 Line volts
- DF for 208, 240, and 480 Line volts
- High temperature fuse holders factory installed inside the fixture housing.
- Fuse is included.

OPTIONAL BACKUP BATTERY

- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for 0°C ambient.

CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- IEC 66262 Mechanical Impact Code IK08
- IP66 certified
- RoHS compliant
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/16/2020. [See Buy American Solutions.](#)

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information
- *PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/sitesync or contact Hubbell Lighting tech support at (800) 345-4928
- Examples:
WDS-D-48L-55-3K7-1-UNV-BLS-PC-SF

Submitted by Swaney Lighting	Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: WDS/D/24L-30/3K7/3/UNV/**	Type: W1
		Notes: SPECIFY FINISH	SLA20-47120

KIMLIGHTING

WDS

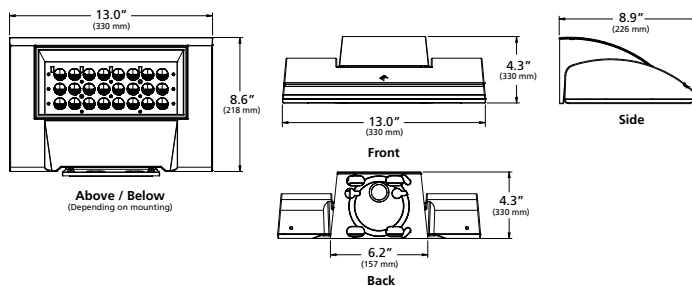
WALL MOUNTED

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

DIMENSIONS



Weight: 20 lbs

DELIVERED LUMENS

LEDs #	Drive Current	Lumens Package	Nominal Watts	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
						Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
							B	U	G			B	U	G			B	U	G	
24L	350mA	3,000	30	Clear	1	3433	1	0	0	119	3519	1	0	0	122	3560	1	0	0	123
					2	3351	1	0	1	116	3436	1	0	1	119	3475	1	0	1	120
					3	3340	1	0	1	116	3424	1	0	1	119	3463	1	0	1	120
					4F	3343	1	0	1	116	3427	1	0	1	119	3466	1	0	1	120
					4W	3267	1	0	1	113	3349	1	0	1	116	3387	1	0	1	117
					SP	3600	3	0	0	125	3691	3	0	0	128	3733	3	0	0	129
	Diffused	WG	3144	1	0	1	109	3223	2	0	1	112	3260	2	0	1	113			
		FTD	2855	1	0	1	99	2927	1	0	1	101	2960	1	0	1	103			
		WTD	3151	1	0	1	109	3230	1	0	1	112	3267	1	0	1	113			
	500mA	4,500	40	Clear	1	4593	1	0	0	111	4708	1	0	0	113	4762	1	0	0	115
					2	4484	1	0	1	108	4596	1	0	1	111	4649	1	0	1	112
					3	4468	1	0	1	108	4581	1	0	1	110	4633	1	0	1	112
					4F	4472	1	0	1	108	4585	1	0	1	110	4637	1	0	1	112
					4W	4370	1	0	2	105	4480	1	0	2	108	4531	1	0	2	109
					SP	4817	3	0	0	116	4938	3	0	0	119	4994	3	0	0	120
				Diffused	WG	4206	2	0	1	101	4312	2	0	1	104	4361	2	0	1	105
					FTD	3819	1	0	1	92	3915	1	0	1	94	3960	1	0	1	95
					WTD	4215	1	0	1	102	4321	1	0	1	104	4371	1	0	1	105

**KIMLIGHTING****WDS**

WALL MOUNTED

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

DELIVERED LUMENS (CONTINUED)

LEDs #	Drive Current	Lumens Package	Nominal Watts	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
						Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
							B	U	G			B	U	G			B	U	G	
24L	725mA	6,000	60	Clear	1	6333	1	0	1	108	6492	1	0	1	111	6566	1	0	1	112
					2	6182	1	0	1	106	6338	1	0	1	108	6410	1	0	1	110
					3	6161	1	0	2	105	6316	1	0	2	108	6388	1	0	2	109
					4F	6166	1	0	2	105	6321	1	0	2	108	6393	1	0	2	109
					4W	6025	1	0	2	103	6177	1	0	2	106	6248	1	0	2	107
					SP	6641	4	0	0	114	6808	4	0	0	116	6886	4	0	0	118
				Diffused	WG	5800	2	0	1	99	5945	2	0	1	102	6013	2	0	1	103
					FTD	5266	1	0	1	90	5398	2	0	1	92	5460	2	0	1	93
					WTD	5812	1	0	1	99	5958	1	0	1	102	6026	1	0	1	103
	925mA	7,500	75	Clear	1	7879	1	0	1	106	8077	1	0	1	109	8170	1	0	1	110
					2	7692	1	0	1	104	7885	1	0	1	107	7975	1	0	2	108
					3	7665	1	0	2	104	7858	1	0	2	106	7948	1	0	2	107
					4F	7672	1	0	2	104	7865	1	0	2	106	7955	1	0	2	107
					4W	7497	1	0	2	101	7685	1	0	2	104	7773	1	0	2	105
					SP	8263	4	0	0	112	8471	4	0	0	114	8567	4	0	0	116
				Diffused	WG	7216	3	0	1	98	7397	3	0	1	100	7482	3	0	1	101
					FTD	6552	2	0	1	89	6717	2	0	1	91	6793	2	0	2	92
					WTD	7231	2	0	1	98	7413	2	0	1	100	7498	2	0	1	101



WDS

WALL MOUNTED

PHOTOMETRY

WDS-D-24L-75-4K7-1

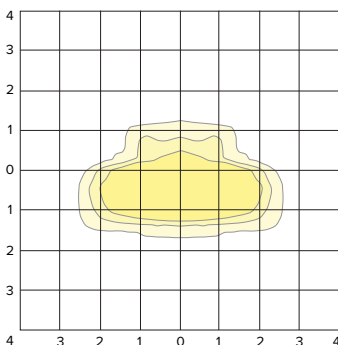
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	8077
Watts	74
Efficacy	109.1
IES Type	I
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7166	88.7%
Downward House Side	912	11.3%
Downward Total	8077	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8077	100%

ISOFOOT CANDLE PLOT



WDS-D-24L-75-4K7-2

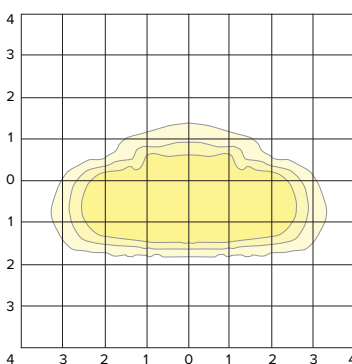
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7885
Watts	74
Efficacy	106.6
IES Type	II
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6393	81.1%
Downward House Side	1492	18.9%
Downward Total	7885	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7885	100%

ISOFOOT CANDLE PLOT



WDS-D-24L-75-4K7-3

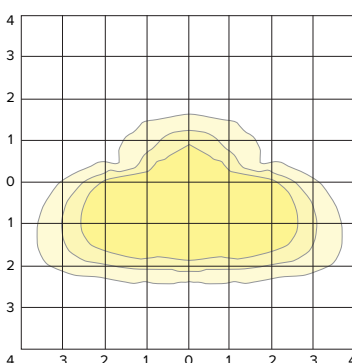
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7858
Watts	74
Efficacy	106.2
IES Type	III
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6551	83.4%
Downward House Side	1307	16.6%
Downward Total	7858	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7858	100%

ISOFOOT CANDLE PLOT





WDS

WALL MOUNTED

PHOTOMETRY

WDS-D-24L-75-4K7-4F

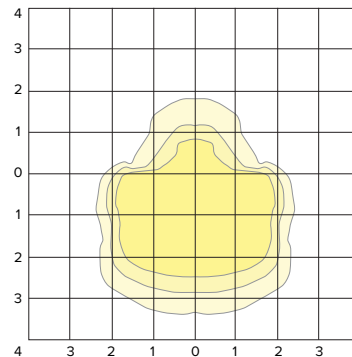
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7865
Watts	74
Efficacy	106.3
IES Type	III
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6782	86.2%
Downward House Side	1083	13.8%
Downward Total	7865	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7865	100%

ISOFOOT CANDLE PLOT



WDS-D-24L-75-4K7-4W

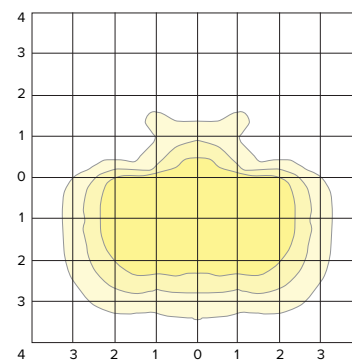
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7685
Watts	74
Efficacy	103.9
IES Type	III
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6794	88.4%
Downward House Side	892	11.6%
Downward Total	7685	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7685	100%

ISOFOOT CANDLE PLOT



WDS-D-24L-75-4K7-FTD

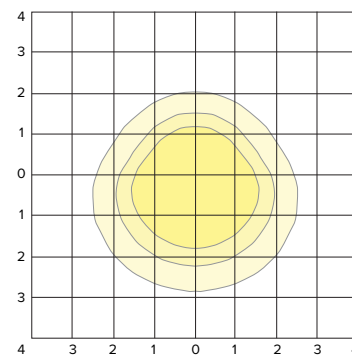
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	6717
Watts	74
Efficacy	90.8
IES Type	III
BUG Rating	B2-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4462	66.4%
Downward House Side	2255	33.6%
Downward Total	6717	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	6717	100%

ISOFOOT CANDLE PLOT





WDS

WALL MOUNTED

PHOTOMETRY

WDS-D-24L-75-4K7-SP

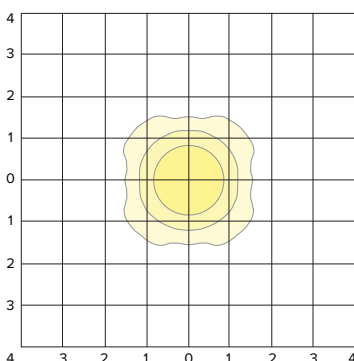
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	8471
Watts	74
Efficacy	114.5
IES Type	VS
BUG Rating	B4-U0-G0
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4236	50.0%
Downward House Side	4236	50.0%
Downward Total	8471	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8471	100%

ISOFOOT CANDLE PLOT



WDS-D-24L-75-4K7-WG

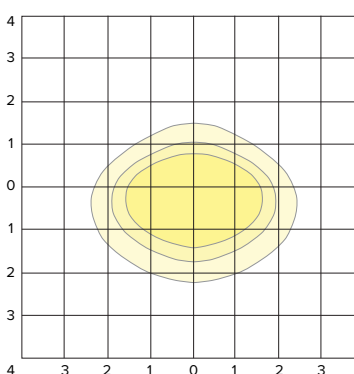
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7396
Watts	74
Efficacy	99.9
IES Type	I
BUG Rating	B3-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4931	66.7%
Downward House Side	2465	33.3%
Downward Total	7396	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7396	100%

ISOFOOT CANDLE PLOT



WDS-D-24L-75-4K7-WTD

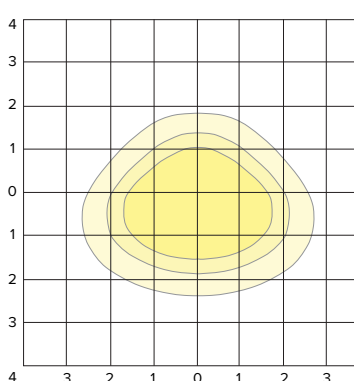
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	7413
Watts	74
Efficacy	100.2
IES Type	I
BUG Rating	B2-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	5341	72.1%
Downward House Side	2072	27.9%
Downward Total	7413	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	7413	100%

ISOFOOT CANDLE PLOT



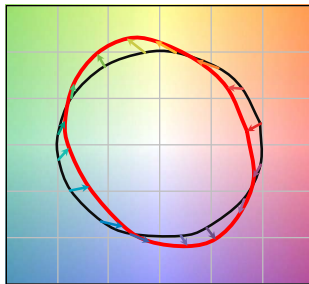

KIMLIGHTING
WDS

WALL MOUNTED

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

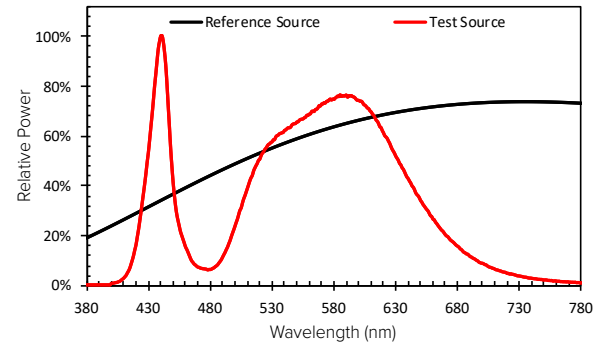
CATALOG #: _____

TM-30 DATA
COLOR VECTOR GRAPHIC


— Reference Illuminant — Test Source

TEST SOURCE

R _f	68
R _g	99
CCT(K)	3947
D _{uv}	0.0004
x	0.3831
y	0.3793
CIE R _a	72

SPECTRAL POWER DISTRIBUTION COMPARISON

ELECTRICAL DATA

Drive Current	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Dimming			
		VAC	Hz	120	208	240	277	347	480				Source current out of 0-10V		Absolute voltage range on 0-10V (+)	
													Min	Max	Min	Max
350mA	29	120-480	50/60	0.24	0.14	0.12	0.10	0.08	0.06	>0.9	20	10% to 100%	0mA	1mA	0V	10V
500mA	42			0.38	0.22	0.19	0.16	0.13	0.09							
725mA	59			0.48	0.27	0.24	0.21	0.16	0.12							
925mA	74			0.67	0.39	0.34	0.29	0.23	0.17							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)

Ambient Temp.	0	25,000	36,000	50,000	100,000	Reported L70
25°C / 77°F	100%	97%	95%	93%	86%	60khrs
40°C / 104°F	100%	92%	89%	86%	75%	

CRI Lumen Multiplier

CCT	70 CRI	80 CRI	90 CRI
3000K	1	0.9119	0.7033
4000K	1	0.8941	0.734
5000K	1	0.879	0.7712

Amber Multiplier

CCT	Multiplier
5000K	1
AM	0.1727

2700K Multiplier

CCT	Multiplier
5000K	1
2700K	0.897

Submitted by Swaney Lighting		Catalog Number:	Type:
	Job Name: MERCY HOSPITAL SITE LIGHTING	WDS/D/24L-30/3K7/3/UNV/** Notes: SPECIFY FINISH	W1 SLA20-47120

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**PGF1****High Performance LED Sconce****FEATURES****Application**

The PGF1 is a maintenance-free indoor/outdoor die-cast architectural LED Sconce. It is wet location listed and offers pathway, perimeter or entry lighting at a mounting height of 8 to 10 feet.

Construction

Housing and mounting plate are constructed of 0.125" die-cast aluminum and the housing is fully gasketed. Lens is acrylic with 95% light transmission to reduce glare. The reflector is electro-polished aluminum with 95% reflectance. Housing is powder coated electro-deposition paint available in 2 colors. The PGF1 includes a field installable full cut-off shield to address "dark sky" compliant requirements. An optional 120VAC photo-control is also available.

Installation

Universal backplate knockouts for mounting to standard 3 1/2", 4" octagonal and 4" square electrical boxes. Backplate mounting is performed using installer supplied hardware. An adhesive-backed neoprene gasket is provided to ensure a waterproof seal. A 1/2" - 1/4 NPT threaded conduit opening is provided at the top of the enclosure and sealed with a closure plug. The housing "snaps" to the back plate by a "pin and socket" arrangement, and is secured with two Phillips head screws.

Electronics

Number of Lamps: 7 High Output LED's
 Lamp Type: Solid State High Output LED's
 Lamp Color: Cool White, 4300K
 Total Lamp Output: 1067 Lumens
 Lumen Maintenance: 50,000 hours
 LED Light Engine: Constant current Driver meets UL1310 class 2 for SSL and FCC Class B, rated for 50,000 hours
 Voltage Input: 120 to 277VAC, 60 Hz.
 Input Power Requirements: 17.7 watts
 Fixture Efficacy: 60.3 Lumens per Watt

Compliances

CSA Certified to UL1598 for use in Wet locations
 Patent No. D627,916

Warranty

3 Years Full

ORDERING GUIDE**PGF1**

Model

PGF1

Finish

Z Dark Bronze
P Platinum Silver
Specify Stnd. finish

Options

PC1 120VAC Photo-control

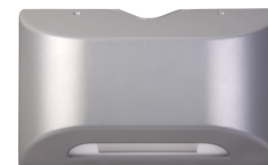
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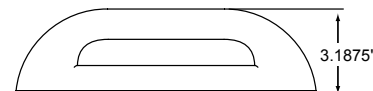
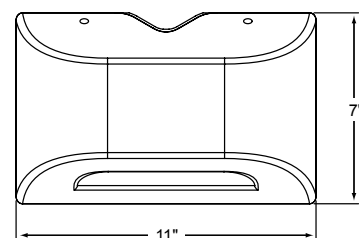
Type



Dark Bronze



Platinum Silver

DIMENSIONSDual-Lite • www.dual-lite.com

A Hubbell Lighting, Inc. brand with representatives' offices in principal cities throughout North America.

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**HUBBELL**
Lighting

0603514 B 01/19

Submitted by Swaney Lighting		Catalog Number:	Type:
	Job Name: MERCY HOSPITAL SITE LIGHTING	PGF1* Notes: SPECIFY FINISH	W2 SLA20-47120

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HUBBELL
 Control Solutions

DATE:

LOCATION:

TYPE:

PROJECT:

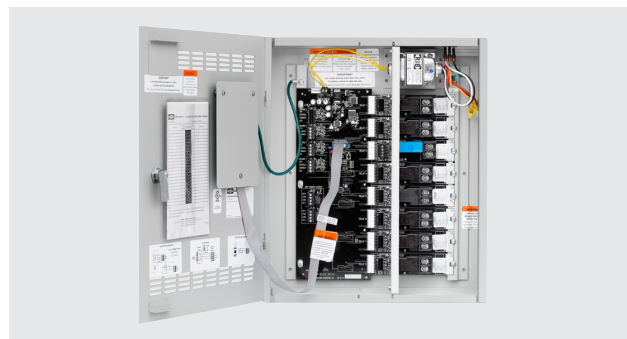
CATALOG #:

CX LIGHTING CONTROL PANELS

CX COMMERCIAL LIGHTING CONTROL PANELS

FEATURES

- LCD user interface with keypad
- 4, 8, 16 and 24 relay panel sizes
- Fully populated or empty
- Astronomical and real time clock for scheduling
- Upload or save programming via removable SD memory card
- NEMA 1 surface mount Enclosure
- UL916, UL924 and cUL listed
- 5 year limited warranty



RELATED PRODUCTS

[CX Relays](#)
[CX Dimming Option Card](#)
[CX Programmable Switches](#)
[CX Low Voltage Switches](#)
[Low Voltage Heavy Duty Key Switch](#)


SPECIFICATIONS

CONSTRUCTION

- Keypad user interface mounted on exterior of door (Only on Master or Stand alone versions)
- Knockouts on top and bottom for low voltage and line voltage feeds
- NEMA 1 surface mount enclosure;
- Pre-drilled mounting holes for mounting to wall
- Panels have hinged locking door

INSTALLATION

- All CX panel versions are surface mount enclosures

ELECTRICAL

- CX04 and CX08; 120/277VAC or 120/347VAC
- CX16 and CX24; 120-277VAC or 347-480VAC
- CX04/CX08; 24VDC, 150mA (max. 300mA)
- CX16/CX24; 24VDC, 150mA (max. 900mA)

ELECTRICAL CONTINUED

- CXR2N 120/277VAC (50/60Hz)
- CXR3L 120/277/347VAC (50/60Hz)
- CXR3LEM 120/277/347VAC (50/60Hz)
- CXRTN 208/240/480VAC (50/60Hz)
- CXRTC 208/240/480VAC (50/60Hz)
- Wire size 14, 16, 18, 20, 22 AWG
- Recommended Tightening Torque: 0.45 N-m (4 in-lbs.)
- 500A @ 2ms (CXR3LEM only)

OPERATION

- Green indicator light on panel motherboard - indicates panel is receiving power.
- Green indicator light on the relay card - Indicates relay is in the closed position
- Red indicator light on the relay card - Dependent on input status and programming
- Indoor use only

OPERATION CONTINUED

- 32° - 112° (0° - 50°C)
- Relative humidity (non-condensing): 10% - 90%

CERTIFICATIONS

- UL916, CAN/CSA C22.2 No. 205
- UL924, CAN/CSA C22.2 No. 141 Emergency Lighting (CXR3LEM)
- Title 24 Certified
- This product qualifies as "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 5/27/2020. See [Buy American Solutions](#).

WARRANTY

- 5 year limited
- See [HCS Standard Warranty](#) for additional information


HUBBELL
 Lighting

Submitted by Swaney Lighting	Job Name: MERCY HOSPITAL SITE LIGHTING	Catalog Number: CX162S162NM	Type: LCP
		Notes:	SLA20-47120



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CX LIGHTING CONTROL PANELS

CX COMMERCIAL LIGHTING CONTROL PANELS

ORDERING GUIDE

Example: CX042S00SPN or CX082S083LM

CATALOG #

CX			S				
Model	Spaces	Input Voltage	Enclosure	Relay Quantity	Relay Type	Options	TAA
CX CX Lighting Control Panel	04 4 Relay Spaces (Stand Alone version only) 08 8 Relay Spaces	2 120/277VAC 3 120/347VAC	S NEMA 1 Enclosure	00 No relays included (Required SP Relay Type) 04 4 Relays Installed (Fully Populated) 08 8 Relays Installed (Fully Populated)	SP CX Lighting Control Panel 2N 1-Pole Elect. Held N.O. Relays (CXR2N) 3L 1-Pole Latching Relays (CXR3L) TN 2-Pole Elect. Held N.O. Relays (CXRTN)	N Stand-alone (4 Relay Panel is neither a Master or Secondary Panel) M Master (Available in CX08) S Secondary (Available in CX08)	Blank Standard Product T TAA

Example: CX162S00SPM or CX242S243LM

CATALOG #

CX			S				
Model	Spaces	Input Voltage	Enclosure	Relay Quantity	Relay Type	Options	TAA
CX CX Lighting Control Panel	16 16 Relay Spaces 24 24 Relay Spaces	2 120-277VAC 3 347-480VAC	S NEMA 1 Enclosure	00 No relays included (Required SP Relay Type) 16 16 Relays Installed (Fully Populated) 24 24 Relays Installed (Fully Populated)	SP CX Lighting Control Panel 2N 1-Pole Elect. Held N.O. Relays (CXR2N) 3L 1-Pole Latching Relays (CXR3L) TN 2-Pole Elect. Held N.O. Relays (CXRTN)	M Master (Available in CX16 or CX24) S Secondary (Available in CX16 or CX24)	Blank Standard Product T TAA

Notes:

- 2-Pole relays take the same amount of space as 1-Pole relays.
- Installed relays must be all of the same type. Relay Type CXR3LEM* and CXRTC* are not available in fully populate panels and must be ordered separately to be installed in the field.
- "00" option has no relays, any purchase relays must be installed in the field.
- Secondary panels have a pre-installed Secondary Interface Card and separately packaged Master Interface Card. Join panels with a Cat5e/6 cable, T568B wiring scheme (Not to exceed 750').
- CX04 Relay panel is Stand Alone only. Does not function with Master/Satellite Interface cards.

*Buy American Solutions
TAA FAR §52.225-11
CX042S043LM
CX082S083LM
CX083S083LM
CX162S163LM
CX242S243LM



DATE: _____ LOCATION: _____

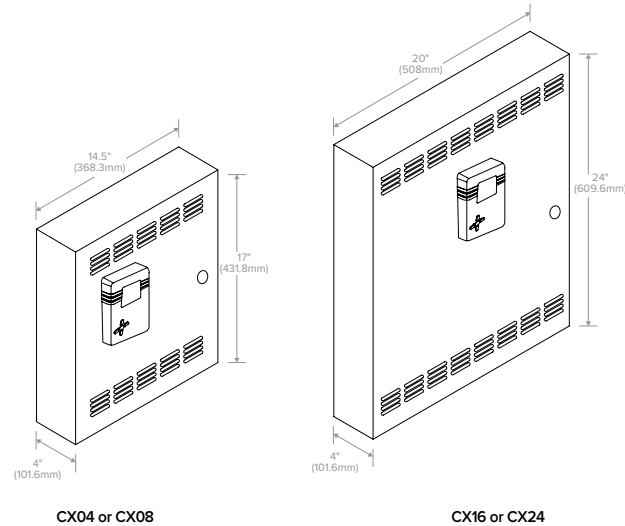
TYPE: _____ PROJECT: _____

CATALOG #: _____

CX LIGHTING CONTROL PANELS

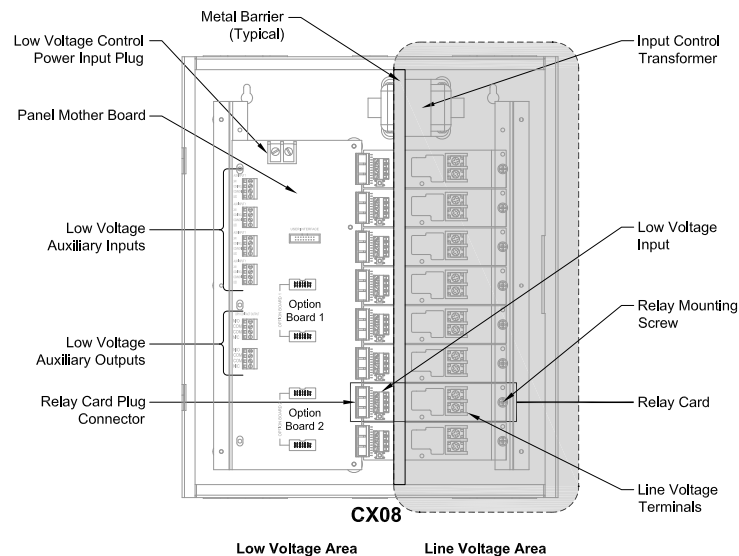
CX COMMERCIAL LIGHTING CONTROL PANELS

DIMENSIONS



ADDITIONAL INFORMATION

Panel Interiors





DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

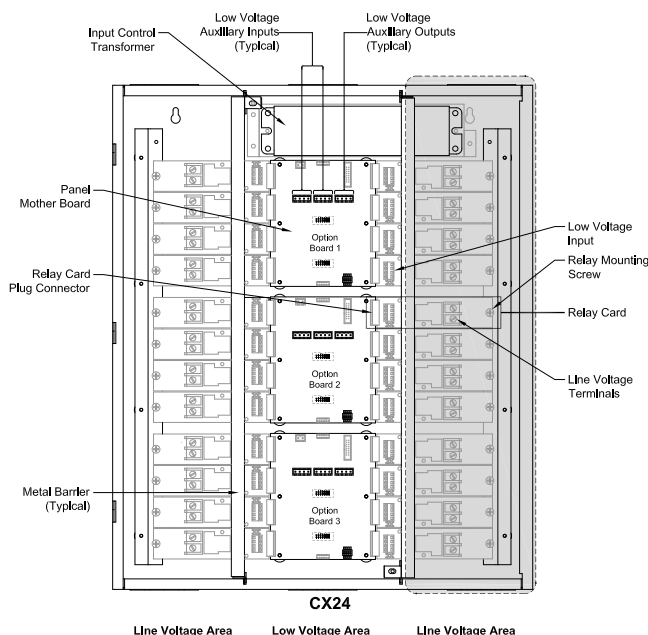
CATALOG #: _____

CX LIGHTING CONTROL PANELS

CX COMMERCIAL LIGHTING CONTROL PANELS

ADDITIONAL INFORMATION (CONTINUED)

Panel Interiors



Accessory Parts List

CX Relays		
Model	Relay Type	
CXR	2N	1-Pole, Elect. Held N.O. 20A @120VAC-Tungsten; 16A @ 277VAC-Elect. Ballast; 20A @277VAC-Mag. Ballast; 14K SCCR @277VAC
	3L	1-Pole Latching 20A @120VAC-Tungsten; 16A @120/277VAC-Elect. Ballast; 30A @120/277VAC-Mag. Ballast; 20A @347VAC-Elect. Ballast; 18K SCCR @347VAC
	3LEM*	1-Pole, Latching 20A @120VAC-Tungsten; 16A @120/277VAC-Elect. Ballast; 30A @120/277VAC-Mag. Ballast; 20A @347VAC-Elect. Ballast; 20A @347VAC-Mag. Ballast; 5K SCCR @347VAC
	TN	2-Pole, Elect. Held N.O. 20A @208/240/480VAC Mag. Ballast; 14K SCCR @480VAC
	TC*	2-Pole, Elect. Held N.O. 20A @208/240/480VAC Mag. Ballast; 14K SCCR @480VAC

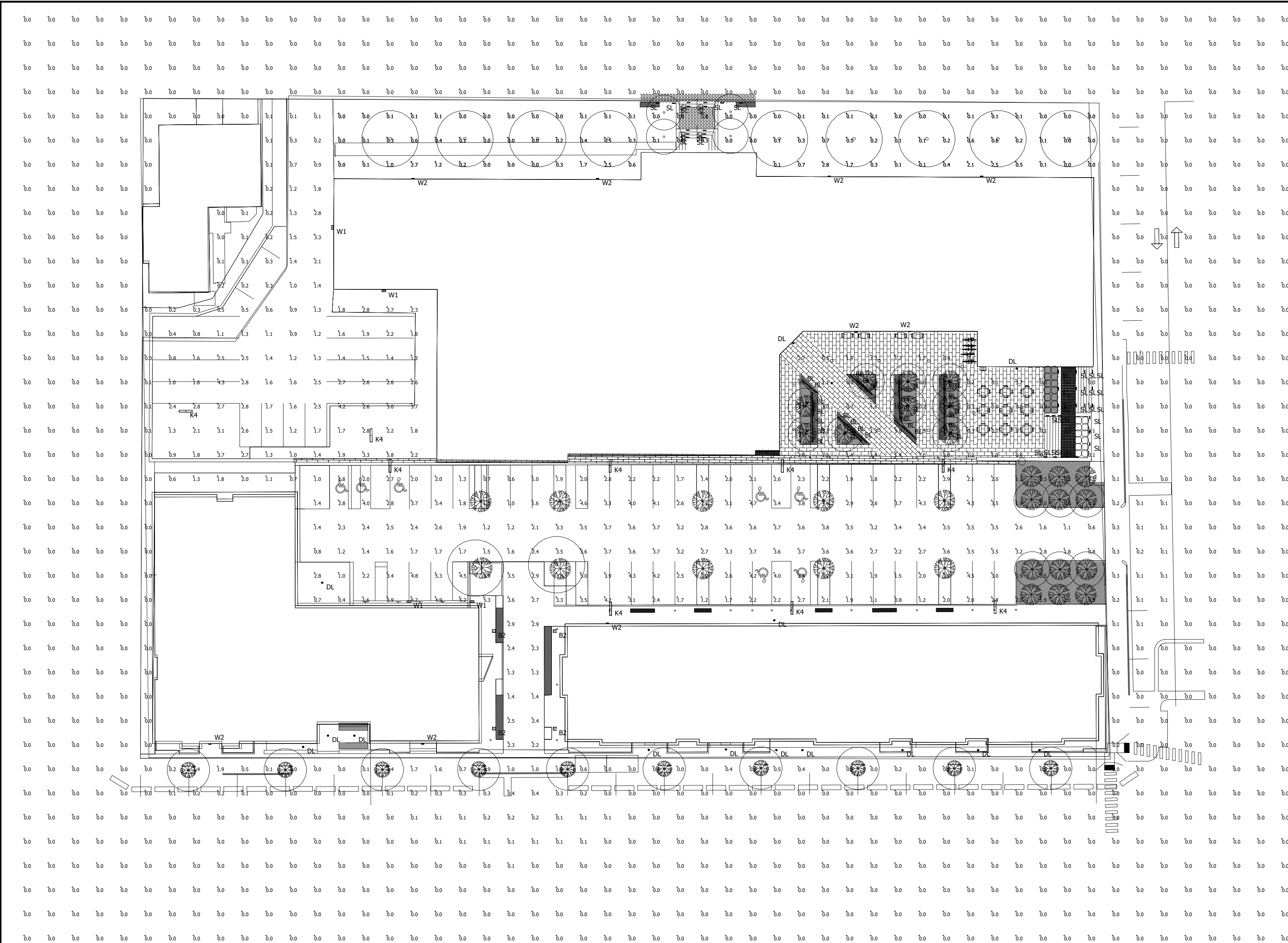
Optional 010V Dimming Interface Card

Model	Description
CXDIMCONTRBD	CX Panel 8-Channel dimming Interface board 0-10V Dimming 30mA, sinking current. 4-RJ45 ports for CXSW wall stations.
	CX04 and CX08 Panels only capable of supporting a single Dimming card (No more than 4 total CXDIMCONTRBD can be used with any Master/Secondary configurations; slots provided)

Optional Master/Satellite Interface Cards

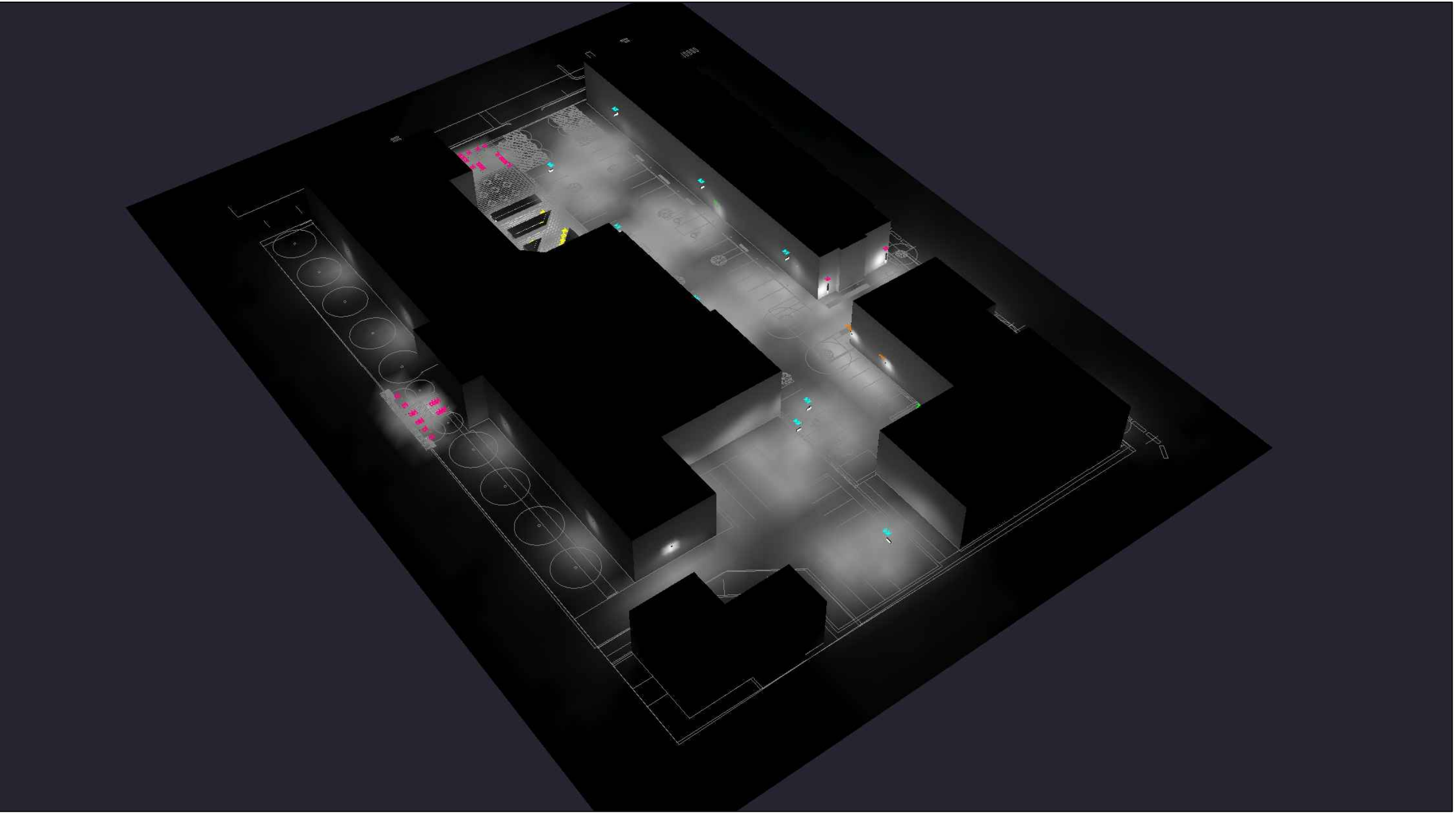
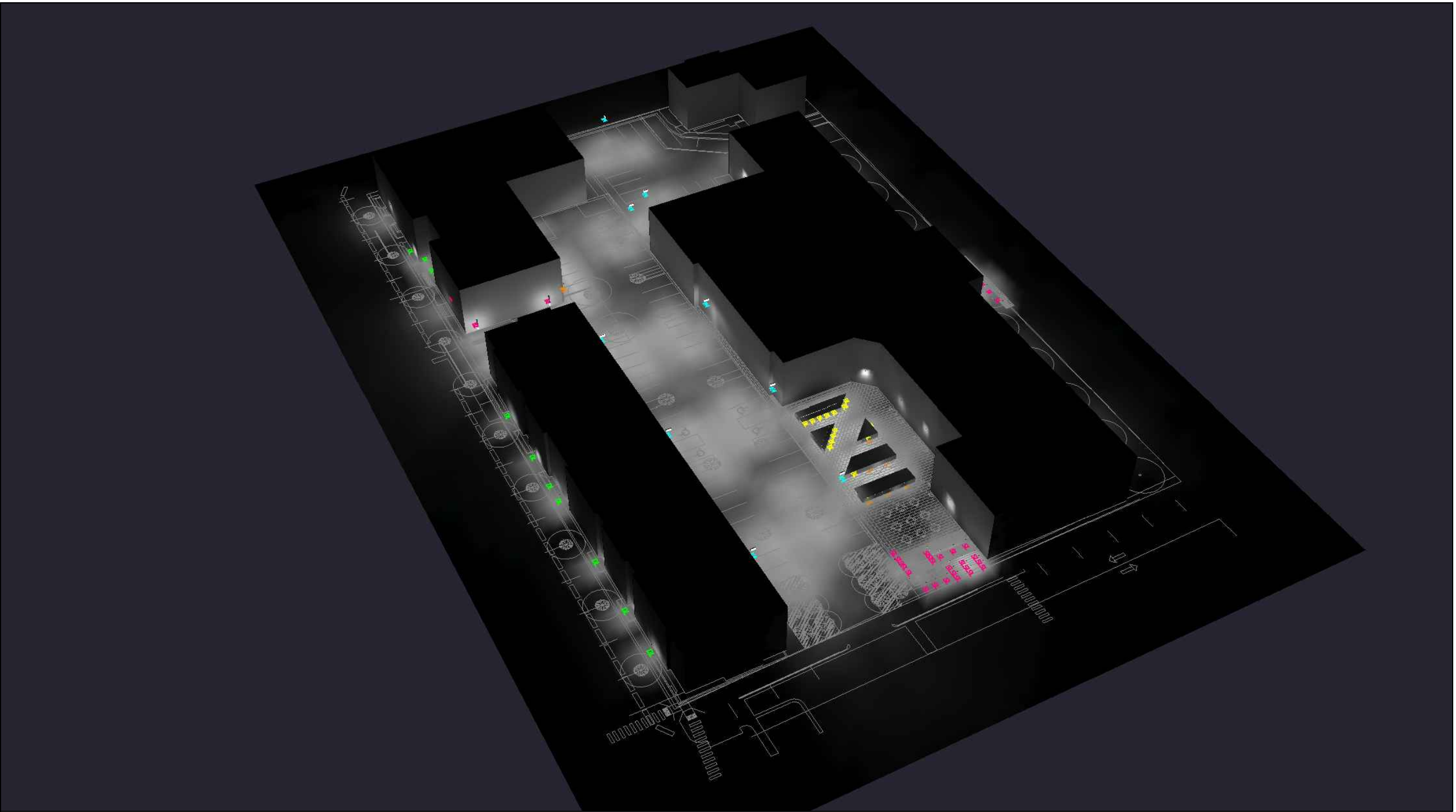
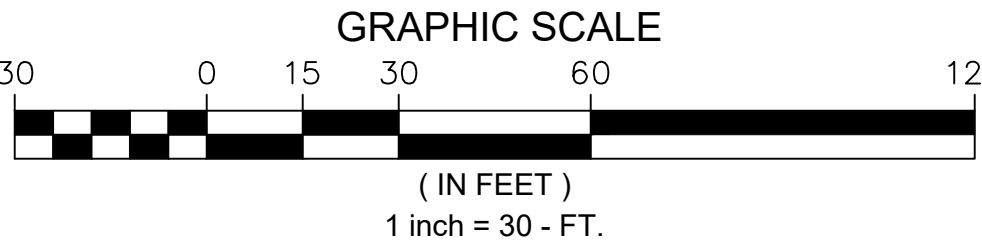
Model	Description
CXKITSECINTFC	Master/Satellite Interface Card Replacement Kit (2card set)

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Luminaire Schedule							
Symbol	Qty	Label	Mounting Height	LLF	Lum. Lumens	Lum. Watts	Description
+	4	B2	13' - 0" AFG	0.900	3738	36	SE4000Q_QG-LED-WW - 3000K
⊙	14	DL	9' - 0" AFG	0.900	664	8	LTR-4RD-H-SL06L-DM1_LTR-4RD-T-SL35K8WDS
-	9	K4	20' - 0" AFG	0.900	8516	90	K5X-T4-MO-9030
	37	SL	N/A	0.900	195	10.4	EL807_9L4K_KIT
⊙	9	TL	N/A	0.900	812	10.7	C24F3-9L4K
⊥	4	W1	12' - 0" AFG	0.900	3340	30	WDS-D-24L-30-3K7-3
⊥	9	W2	9' - 0" AFG	0.900	1067	18	PGF1
▬	27	BL	N/A	0.900	526	0	C-FR-F22B-CC-D24V-108-3500K

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Overall Area	Iluminance	Fc	0.57	23.7	0.0	N.A.	N.A.
Back Parking Area	Iluminance	Fc	1.70	4.3	0.1	17.00	43.00
Courtyard	Iluminance	Fc	3.31	23.7	0.0	N.A.	N.A.
Front Parking Area	Iluminance	Fc	2.65	5.0	0.6	4.42	8.33
Back of Building	Iluminance	Fc	0.33	2.8	0.0	N.A.	N.A.



1. THIS LIGHTING DESIGN IS BASED ON LIMITED INFORMATION SUPPLIED BY OTHERS TO HUBBELL LIGHTING. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT. 2. LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS. 3. CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.					
TITLE:		REVISED FROM DRAWING NUMBER(S):		HUBBELL®	
MERCY PORTLAND, ME SITE PHOTOMETRIC PLAN		R1: 07/21/21	R5: 05/27/21	ON BY: DHK	DATE: 09/18/20
		R2: 09/28/20	R6: 06/22/21	REV BY: DHK	DATE: 07/30/21
		R3: 11/24/20	R7: 07/08/21	SCALE: AS NOTED	
		R4: 11/30/20	R8: 07/21/21		
		Hubbell Lighting, Inc. 701 MILLENNIUM BLVD. GREENVILLE, SC 29607		QUOTE: N/A	DRAWING / DESIGN NO.: 2026981R10

HISTORIC PRESERVATION BOARD
CITY OF PORTLAND, MAINE

WORKSHOP
ST. LUKE'S CATHEDRAL, 143 STATE STREET

TO: Chair Pollard and Members of the Historic Preservation Board
FROM: Rob Wiener, Historic Preservation Compliance Coordinator
DATE: August 6, 2021
RE: August 11, 2021 **WORKSHOP – Preliminary Review of Proposed
Landscaping and Site Improvements
HPBR-001735-2021**

Address: 143 State Street – St. Luke's Episcopal Cathedral Grounds

Applicant: St. Luke's Cathedral Parish

Landscape Architect: Jennifer Bear, Confluence Designs

A sign announcing the Historic Preservation Board's meeting on August 11, 2021 was posted at the property on August 5, 2021. A legal ad was published in the Portland Press Herald on 8/3/21 and 8/4/21, and 52 notices were sent to neighboring property owners within 100 feet of the subject property.

Introduction

A preliminary workshop has been scheduled to introduce a landscaping plan for the grounds in front of St. Luke's Cathedral, at 143 State Street. The general features of the open grounds between the State Street sidewalk and the cathedral are to remain similar to the existing conditions, and the most important proposed change is a ground-level meditation labyrinth to be created with granite in the lawn at the southern part of the front campus. Installation of the labyrinth is proposed as the first phase in the plan, one the applicants hope to implement as soon as possible.

Also proposed in the second phase are new plantings, relocation of the sign, and some changes to paving that would not significantly alter the footprint of paved surfaces. Lighting may be proposed in the future, but is not part of this review. Two other garden areas close to the cathedral building will possibly be developed as rain gardens, but no details are available yet.

Staff notes that plant choices are generally not a level of detail that is subject to historic preservation review; it is more the character, scale, and geometry of the landscape plan

that is important, and how the plan as a whole relates to the historic resource, which includes the grounds as well as the actual building. Nonetheless, as part of the landscape plan, plantings, grading, and use of other materials, particularly in swales and rain gardens will need to have a compatible relationship to the whole, to the cathedral, and its context.

Parishioners of St. Luke's engaged landscape architect Jennifer Bear to design the labyrinth and the rest of the front grounds. She has supplied four pages of drawings and a brief project summary. Staff has provided some recent photos of existing conditions.

Subject Property

According to Portland's Historic Resources Inventory, St. Luke's was the first church in the United States to be built specifically as a cathedral. Erected in 1867-1868 in the form of an English Gothic cathedral, it has been enlarged in the 20th Century by the addition of the Codman Chapel in 1903, and the bell tower in 1958.

The deep setback of the cathedral from the wide State Street sidewalk created the opportunity for the circular driveway and landscaped lawn and garden areas. Loring House on the north side of the campus was built as the bishop's residence at the same time as the cathedral, and on the south the third side of the campus' frame is provided by a John Calvin Stevens designed, brick Romanesque Revival house built in the 1880's, which is not part of the St. Luke's complex.

The circular drive and paths to the chapels and cloisters are currently paved with asphalt that is fairly light in color. The main path in the middle has rectangular bluestone pavers of varied sizes. This central path was not installed until about 2009. Several years ago, a gate was added to the black metal fence between the corner of the bell tower and the back corner of Loring House, to improve security for the inner campus and cloister. A fence has been in that location since before 2006, according to satellite photos. Also, until sometime in 2018 or early 2019, a large shade tree stood toward the rear of the lawn where the labyrinth is planned.

Proposed Site Alterations

Please see the summary letter provided by Ms. Bear. Staff notes that several features in the design have yet to be developed, and will be part of the future phase of improvements. Other details may depend on pricing and budget, and on the Board's feedback – especially the particular details of the labyrinth, which is the first priority as Phase One.

- It appears that most or all of the existing low hedges that help define the existing landscape are being retained, and are included in the new plan.
- Two benches are indicated on the site plan, one in the central garden near the entrance walk, and one set back in the reflection garden. No details have been provided at this point, except that one new bench will match an existing style.

- The St. Luke's sign is to be moved to make room for the labyrinth, to a spot near the entrance walk. Ms. Bear expressed a desire to organize and consolidate the additional signs and banner that can proliferate to mark seasonal and other messages.
- A note mentions the possible extension of the edge of the circular drive on the southeast side, to make parking and circulation easier. This would necessitate relocation or removal of the existing hedge, but Ms. Bear said the hedge would be maintained between the labyrinth and the drive.
- A number of needed stormwater measures are highlighted as possibilities, including two or three rain gardens as well as swales, dripline trenches, and possible pervious pavers. No details are yet provided on the design details, except for concepts shown on the stormwater page.
- Lighting is mentioned as a possibility in the project description, but no other information is provided, as this may or may not happen in a future phase.
- The path to the small chapel in the southeast corner is proposed as a native Maine granite walkway. Ms. Bear told staff the granite will be sourced from Millenium Granite in Wells, and will be rectangular pieces for paths, with a surface rough enough for traction. The quarry offers two colors: a grey stone, and a grey that is slightly pinkish; Ms. Bear hopes to show samples by Zoom.
- Granite pieces for the labyrinth and the walk are to have slightly eased corners, according to Ms. Bear.

Staff Comments

The workshop on August 11 will provide an opportunity for guidance on the challenge of integrating a number of features and program goals into a finite space that is the public “front yard” of one of Portland’s most significant churches. Staff calls the Board’s attention to the contributions listed on the Landscape Conceptual Design page. Among the existing and proposed functions are:

- Welcoming the public and improving visibility
- Pedestrian and vehicular approach to the main entrance, including drop-off and temporary, short-term parking.
- Outdoor lawn space for church community functions
- Sacred space for reflection and meditation, including the proposed labyrinth
- Demonstration gardens
- Stormwater management features

Staff believes that enacting this ambitious program while “creating a sense of place, arrival, and cohesiveness” (in the words of Ms. Bear’s conceptual design,) might be challenging. Doing so in a way that maintains the integrity, unity, and character appropriate for a stately Gothic cathedral should not impossible, but will require careful thought and attention to balancing and relating disparate elements, and may require some realistic assessment of what can work together to create a unified whole.

For this phase of the review, the applicants' priority is the proposed labyrinth. It would be an intriguing addition to the landscape, but must also be viewed in the larger context of the campus landscape. With simple granite at grade and grass, it should be quiet and attractive, but one wishes there were more space to work with. The circle may feel pushed rather close to the sidewalk and the driveway, and it will also share the lawn with space for church functions and a reflection garden. Perhaps slightly reducing the size might alleviate the possible sense of crowding, if that can be accomplished without undermining the essential design.

Applicable Ordinance Review Standards (from Standards for Review of Alterations)

- (1) *Every reasonable effort shall be made to provide a compatible use for the property which requires minimal alteration to the character-defining features of the structure, object or site and its environment or to use a property for its originally intended purpose.*
- (8) *Every reasonable effort shall be made to protect and preserve significant archeological resources affected by or adjacent to any project. If resources must be disturbed, mitigation measures shall be undertaken.*
- (9) *Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant cultural, historical, architectural or archeological materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the size, scale, color, material and character of the property, neighborhood or environment.*
- (10) *Wherever possible, new additions or alterations to structures and objects shall be undertaken in such a manner that, if such additions or alterations were to be removed in the future, the essential form and integrity of the historic property would be unimpaired.*

Attachments:

- 1. Cover letter from landscape architect
- 2. Conceptual landscape designs, labyrinth, and stormwater concepts
- 3. Staff photos of existing conditions

Dear Historic Preservation Board,

Below is communication from the Landscape Architect Jennifer Bear regarding the St. Luke's front church yard project to include the following:

- Stone Labyrinth Installation
- Possible lighting introduction
- Possible relocation of signage

I have attached two files with the posters I have put together which can be used to introduce the community to the proposed landscape project.

You should receive the:

- main conceptual landscape design plan
- conceptual landscape design with images and details
- conceptual labyrinth design with images and details
- stormwater plan with images and details

Jennifer

Jennifer Bear, MLA

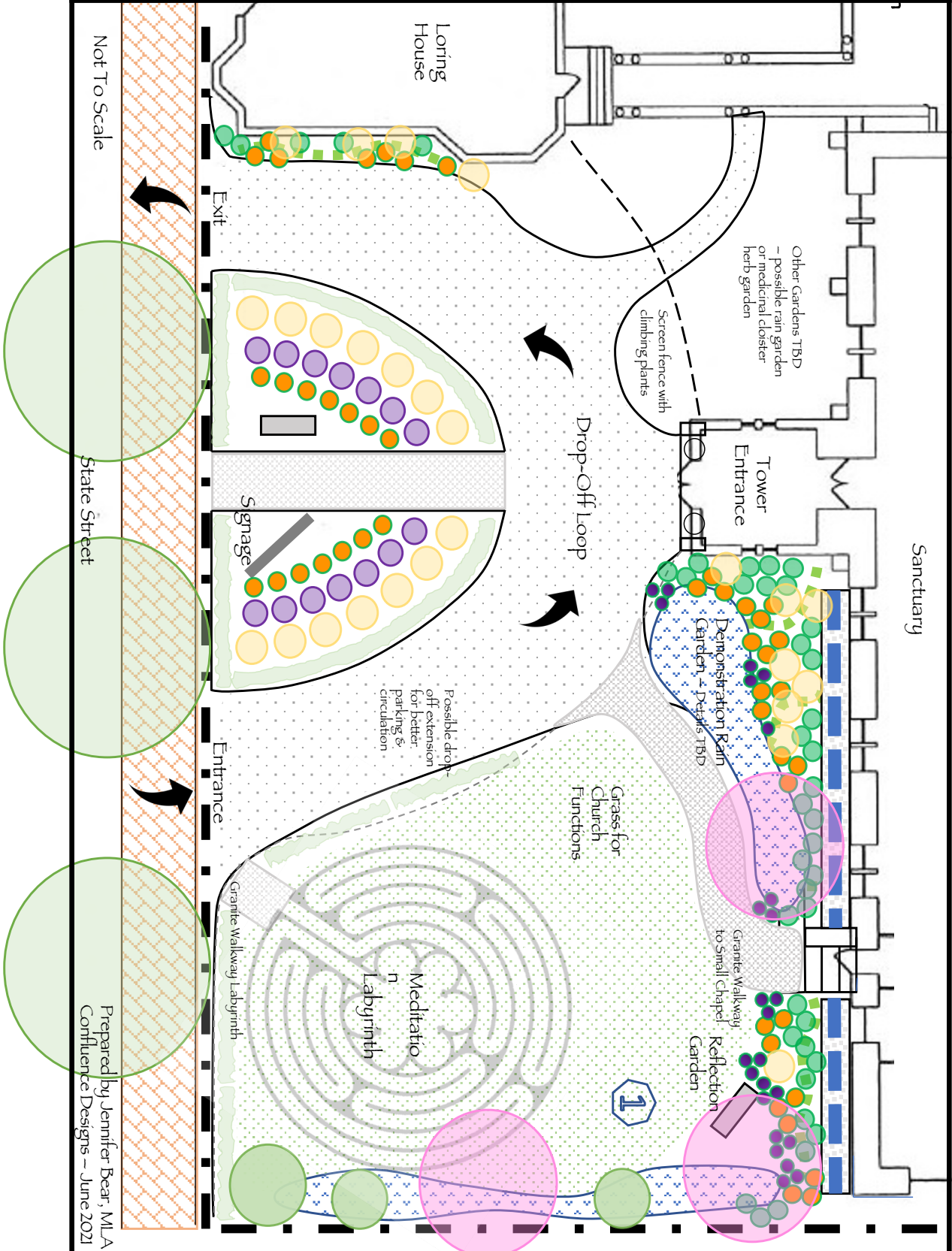
ConfluenceDesigns

+33 6 85 76 56 35 France

00 1 207 352 9084 USA

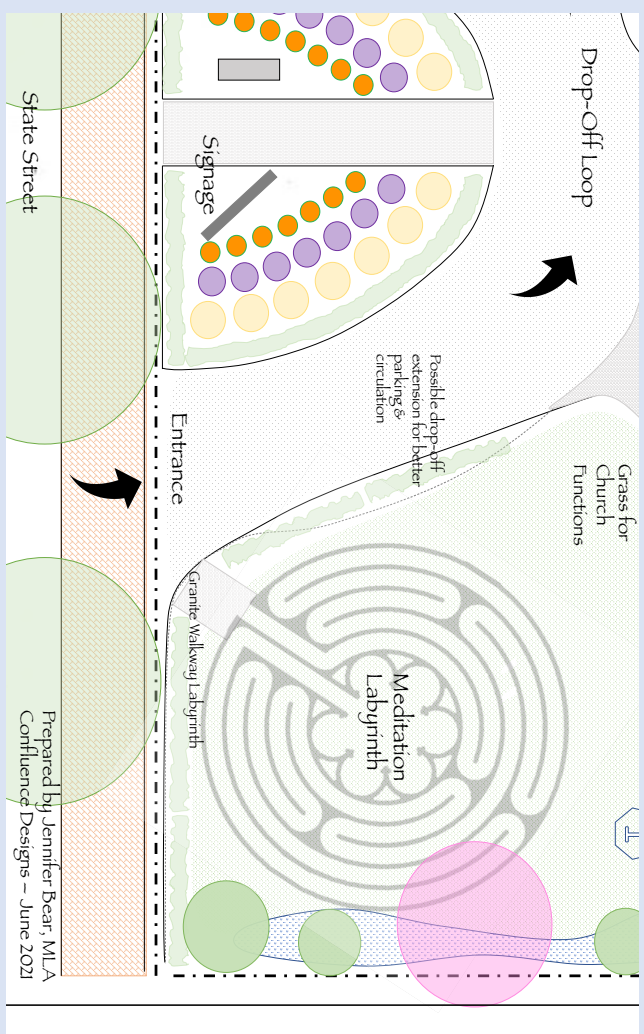
ST. LUKE'S CATHEDRAL Conceptual Landscape Design

- 3-Circuit Chartres Labyrinth – Mame Granite Circuits & Grass
- Edge with Granite Entrance Walkway
- Local Maine Granite
- Existing Signage- move for better visibility
- Bench
- LANDSCAPE
- Existing Trees & Shrubs
- Existing Hedge
- Grass
- Flowering Tree
- Cherry
- Woody Perennial
- Russian Sage
- Ornamental Grass
- Karl Forester
- Perennial Hosta
- Existing Transplant or Divide
- Perennial Daylily
- Existing Transplant or Divide
- Perennial Iris
- Existing Transplant or Divide
- NOTE : Detailed landscape design and details upon approval & direction
- 1
- STORM-WATER MANAGEMENT
- Rain Garden
- Dripline Trench
- Rock Lined Swale with Vegetation



ST. LUKE'S CATHEDRAL - Labyrinth Conceptual Design (Phase I)

Prepared by Jennifer A Bear, MLA - Confluence Designs



LABYRINTH CONCEPTUAL DESIGN

3 - CIRCUIT CHARTRES LABYRINTH

- 3 - Circuit: Meditative labyrinth classical Chartres replica design
- Benefits
 - Create meditative sacred space
 - Encourage community use
 - Use of pervious local Maine granite
- Location
 - State Street sidewalk entrance to encourage community use & maintain area by church for church functions
- Styles options - TBD based on budget
 - Circuits: pavers Outline: grass
 - Circuits: grass Outline: pavers

3 - CIRCUIT CHARTRES LABYRINTH

- 3 - Circuit: Meditative labyrinth classical Chartres replica design
- Dimensions
 - 36' Diameter
 - 9' Center
 - 218' Circuits
 - 218' Outside Edge

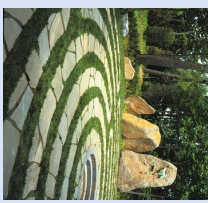
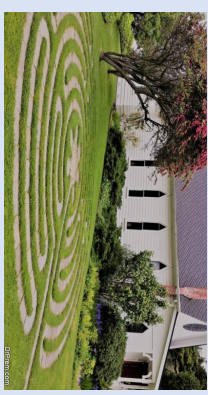


PREFERRED STYLE - Circuits: Pavers Outline: Grass

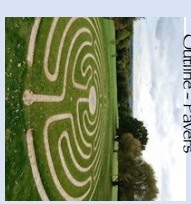


STYLE OPTIONS

- Circuits - Pavers
- Outline - Grass



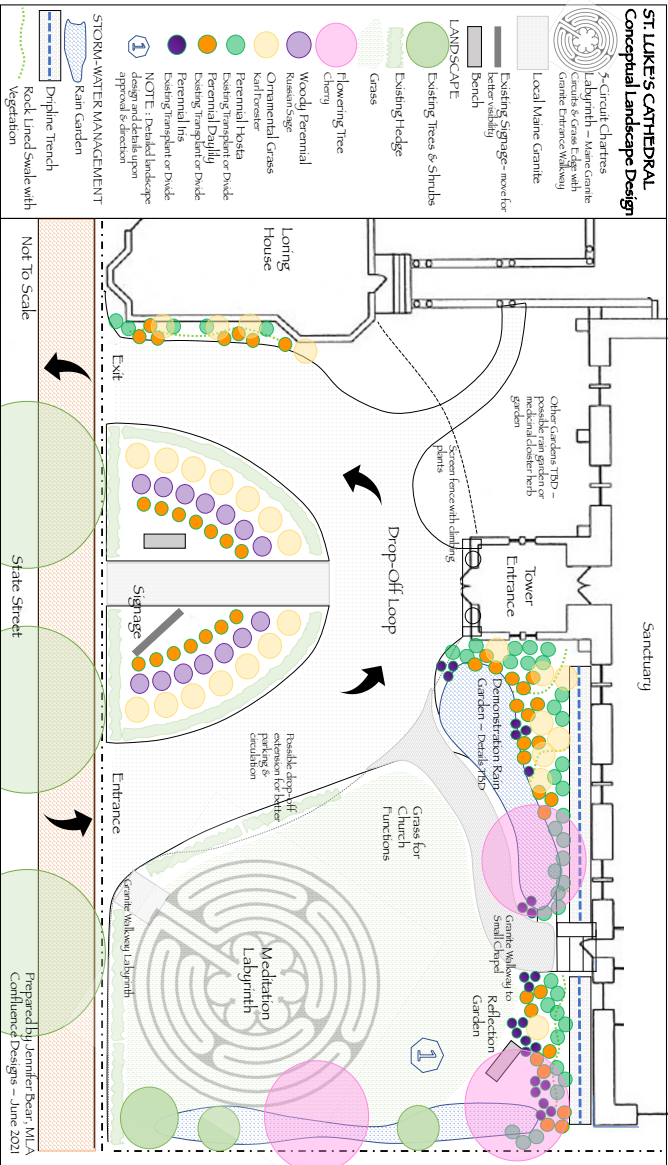
- Circuits - Grass
- Outline - Pavers



LOCAL MAINE GRANITE

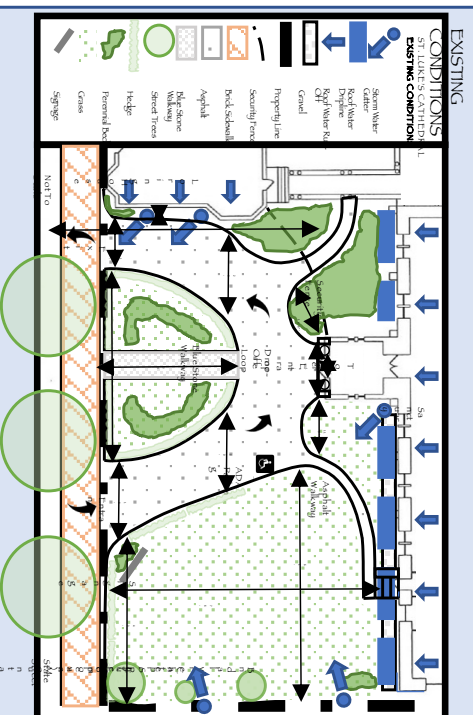
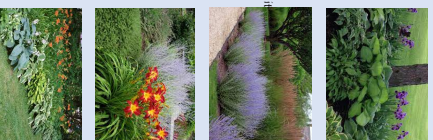


Prepared by Jennifer A Bear, MLA - Confluence Designs



LANDSCAPE CONCEPTUAL DESIGN

- Spiritual Contributions
 - Create sacred space
 - Reflection garden
 - Meditative labyrinth
- Strengthen Cathedral historical legacy
 - Investment in landscape improvements
 - Strengthen community bonds
- Community Contributions
 - Improve functional space for parishioners and community
 - Create welcoming environment
 - Create sacred meditative space
 - Encourage community use
 - Provide green space
 - Best Management Practices demonstration garden
- Environmental Contributions
 - Use of Best Management Practices
 - Re-use stormwater run-off
 - Re-use water from the M+ane Granite
 - Use plants adapted to climate
 - Re-use and transplant existing plants
- Improve Usability
 - Signage
 - Plant palette
 - Create a sense of place, arrival, and cohesiveness



PROPOSED LANDSCAPE



FLOWERING TREE - cherry



PERENNIAL - Hosta



PERENNIAL - Daylily



PERENNIAL - In's



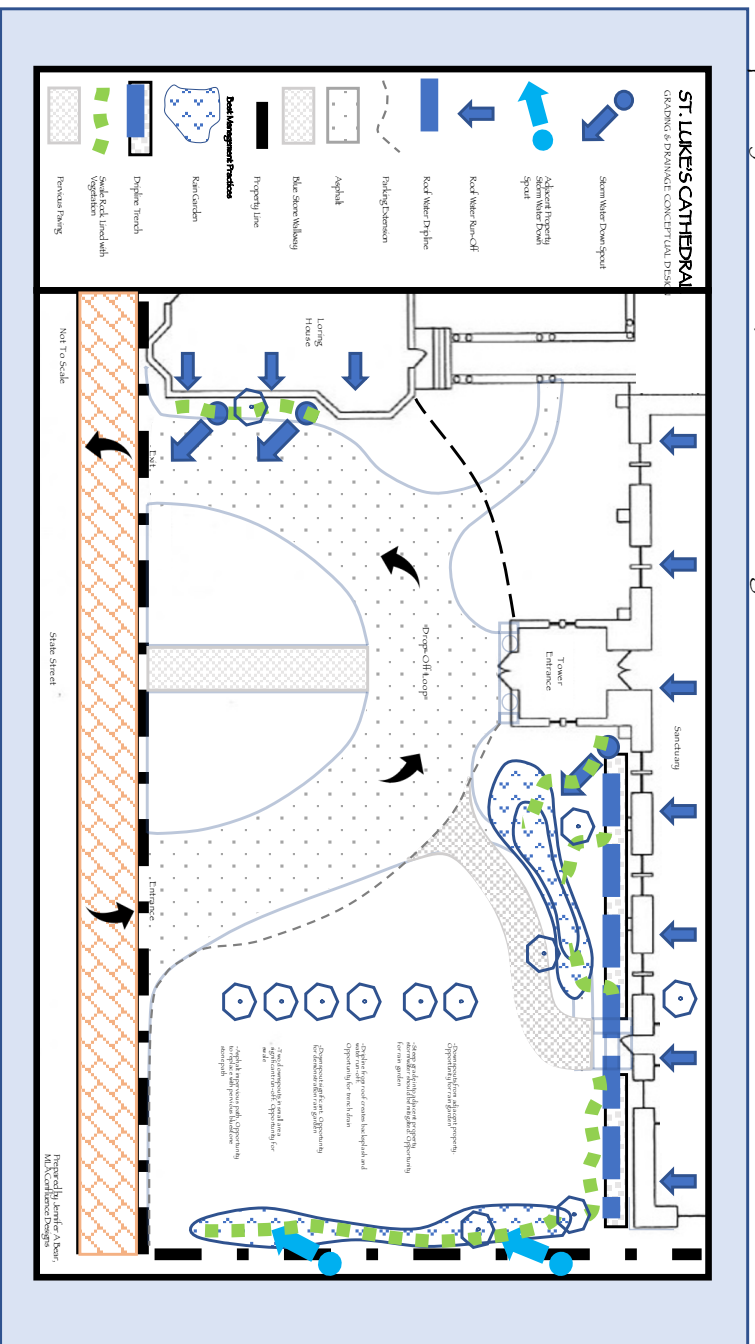
PERENNIAL - Russian Sage



ORNAMENTAL GRASS - Karl Forester

ST. LUKE'S CATHEDRAL - STORMWATER MANAGEMENT

Prepared by Jennifer A Bear, MLA - Confluence Designs



STORMWATER MANAGEMENT

- Existing Stormwater Issues
 - Stormwater runoff flows towards buildings
 - Significant stormwater run-off from:
 - On-site and off-site down spouts
 - Paving
 - Roof drainage drip-line
- Goals
 - Move water away from Cathedral foundation, surrounding structures, and paving
 - Direct water to gardens
 - Prevent flooding
 - Capture water for re-use
- Environmental Approach - Best Management Practices (BMP)
 - Bio-retention basins - rain gardens
 - Swales - rock/dry creek bed, and vegetated
 - Driphe trench or trench drains
 - Permeable paving



Existing Stormwater Run-Off Issues

BEST MANAGEMENT PRACTICES (BMP)

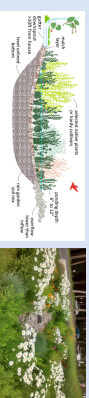
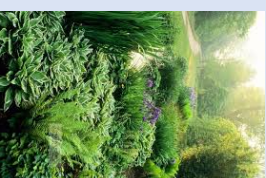
- Best Management Practices (BMP) are part of low impact development with the goal to minimize non-point source pollution in the watershed in an effort to improve water quality. Opportunity to provide BMP demonstration gardens for the community.
- 1. Goals of BMP
 - Effective pollutant removal
 - Remove fine particles, nutrients, sediments, heavy metals, dissolved pollutants, and hydrocarbons
 - Cooling
 - Effectively cool down stormwater
 - Protects aquatic life
 - Channel protection
 - Slows release of stormwater discharge
 - Avoids destabilization causing sedimentation and erosion
 - Minimizes volume and rate of discharge by minimizing impervious areas and maximizing infiltration and time of concentration of storm flows
 - Flood Control
 - Detention of stormwater minimizes flooding downstream
- Benefits
 - Benefits local environment by acting as a natural filtration system significantly removing pollutants since BMP's slow, decrease and clean the stormwater run-off before it runs into local waterways
 - Filters - cleans the pollution through percolation into soil
 - Reduces pollution - decreases sedimentation through retention
 - Slows the flow protecting local ecology, erosion, and spawning grounds
 - Supports ecology by providing habitat
 - Prevents flooding by reducing rate and quantity of stormwater run-off

OPPORTUNITIES FOR BEST MANAGEMENT PRACTICES AT ST. LUKE'S

- Rain Gardens
 - Swales - vegetative or rock lined
 - Driphe Trenches
 - Permeable Paving - asphalt, concrete turf block, and paver stones
- RAIN GARDEN

How rain gardens work

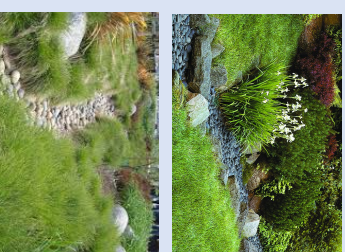
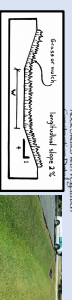
- Rain gardens are a natural way to capture and filter stormwater.
- Captures stormwater runoff from roofs, driveways, or other impervious surfaces through down-spouts, trenches or swales
- Decreases stormwater run-off carrying pollution by improving infiltration
- Can be a simple shallow depression with plants that can flourish in both moist and dry conditions
- Designed to drain within 48 hours to reduce the risk of standing water
- Located at least 10 feet from foundation
- Protects property from erosion
- Protects local water quality and habitat
- Re-use of stormwater reduces need for irrigation



SWALES - vegetative or rock lined

How swales work

- Swales safely infiltrates and conveys stormwater run-off
- Minimum 2% slope from beginning to end
- Conveyed water away from any structures and to desired destination
- Slows runoff, allows sediments to filter out
- Improves water quality by reducing run-off



DRIPLINE TRENCH

How driphe trenches work

- Collect and infiltrate stormwater from rooftop
- Control erosive runoff from the rooftop
- Conveys water away from structure and to desired location
- Minimize back splash



PERMEABLE PAVING- asphalt, concrete turf block, and paver stones

- How permeable paving works
 - Designed to allow more runoff to sink into the ground
 - Increases infiltration therefore improves water quality

143 State, St. Luke's

Write a description for your map.



143 State St









St. Elizabeth's Jubilee Center
Essentials Pantry
Open Tuesday: 9:30 - 11 am
101 Park St., Portland
Back Entrance St. Luke's Cathedral
For more information, call 503-238-1111

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**HISTORIC PRESERVATION BOARD
CITY OF PORTLAND, MAINE**

**PUBLIC HEARING
5 EASTERN PROMENADE**

TO: Chair Pollard and Members of the Historic Preservation Board
FROM: Deb Andrews, Historic Preservation Program Manager
DATE: August 3, 2021
RE: August 11, 2021 **PUBLIC HEARING**

Application for: **Certificate of Appropriateness for Comprehensive Exterior Rehabilitation, Including Exterior Alterations & Additions, Site Alterations**

Address: 5 Eastern Promenade

Applicant/Building Owner: Roger Trettel, Casco Chatauqua Development

Architect: Andy Hyland and Mark Chaloupecky, Port City Architecture

Introduction

Following two preliminary workshops, applicant Roger Trettel and project architects Andy Highland and Mark Chaloupecky of Port City Architecture are requesting a public hearing and final approval of their proposal for the comprehensive rehabilitation of the Queen Anne/Colonial Revival style residential structure at 5 Eastern Promenade. Built in 1898 and designed by John Calvin and John Howard Stevens, the former single-family home is one of the most architecturally notable buildings on the Eastern Promenade. Although substantially unaltered, the building has suffered from years of deferred maintenance. The rehabilitated building will accommodate three condominium units, with the potential for a fourth unit at the ground-floor level.

Briefly, the project calls for the following major repairs, alterations and additions:

- restoration/repair of existing historic features and ornamental details
- window replacement (except for original decorative windows on front west elevations)
- roofing replacement
- on the east elevation: replacement of a deteriorated non-original side entry porch and construction of a trash enclosure
- on the rear elevation: dormer/deck additions at the roof level, fenestration changes and deck additions at the second-floor level, and window/door alterations at the ground floor level

- on the west elevation: roof dormer addition and restoration of side porch to original open design. Note: also shown on this elevation is an added window opening at first-floor level--though shown on the 7/28 elevations, this alteration was not discussed at the second workshop.
- site alterations, including expansion of existing parking area and construction of retaining wall on west side of property

Summary of Workshops and Status of Final Submission

Preliminary workshops were held on July 21st and July 28th. The follow-up workshop on July 28th focused primarily on proposed alterations to the rear elevation and the proposed addition of a small roof dormer on the west elevation, as these aspects of the project were found to be unresolved as of the first workshop. (The other unresolved issue was the proposed addition of a rooftop deck, but the applicant elected to eliminate the deck prior to the second workshop.) At the second workshop, Board members responded favorably to the revised proposal for the rear elevation, concluding that the design modifications were effective in reducing the visual impact of added fenestration and decks. As for the added dormer on the west roof plane, while Board members found the revised proposal to be moving in the right direction, they suggested that its design, scale and relationship to the existing dormer warranted further exploration.

The enclosed final submission reflects points of agreement at the second workshop, especially as regards the treatment of the rear elevation. Modest adjustments have been made in response to Board comments, such as continuing the kick-out of the shingles at the base of the new 2nd-floor decks. With respect to the dormer on the west elevation, the project architects have returned with four design options for consideration. As you will note, the design presented at the second workshop continues to be their preference.

The final submission also provides a higher level of detail for several elements of the project, as well as specifications for the replacement windows, roofing and railing systems. Also, the parking area and retaining wall proposed for the west side of the property are detailed for the first time in this submission. Also shown on the final plans is a new window opening on the west elevation, next to the first-floor bay.

New Information Provided, Staff Comments

As noted above, the final submission includes new or additional information about several aspects of the project. As such, the Board will want to pay particular attention to the following items. (Staff comments are shown in *italics*.)

- Replacement windows. Although the subject of window replacement has been discussed since the first workshop, no decision had been made as to the specific window selection. The final proposal specifies Pella aluminum clad insert windows for all of the windows except for the original ornamental

windows, most of which are located on the front façade. (An original ornamental bay window remains on the west elevation as well.)

While the ordinance's requirement for in-kind replacement (Standard #6) had traditionally been interpreted to require wood replacement windows, particularly for residential structures, the Board has approved clad replacement windows for a number of projects in recent years. Factors such as improvements in the replacement window industry and concerns about the integrity/durability of new-growth wood have led to an openness to aluminum clad windows. That said, the circumstances of each building should be considered when making a decision about a change in original material. In the case of 5 Eastern Promenade, staff suggests that wood replacement windows be considered at least for the front facade of the building, where most of the original ornamental wood windows are to remain and be rehabilitated. This will ensure that the finish of new and original windows remain consistent. Aluminum clad replacement windows may be an appropriate choice for the side and rear elevations.

- Added dormer on west elevation's roof plane. Included in the final submission are four design options for the Board's consideration--see ATTACHMENT 4, Sheet A2.4. Note that the project architects' preference is for the dormer design presented at the July 28th meeting (Option A), but the other options are acceptable to the applicant and architects as well. Note that the enclosed elevation of the front façade (ATT. 4, Sheet A2.1) shows the side view of the Option A dormer. Side views have not been provided for the other dormer designs.

As Board members acknowledged during the workshops, finding an appropriate way to distinguish the new dormer as an added element is particularly challenging for this building. The distinction need not (and should not) be so clear as to introduce a dissonant element on a highly significant historic structure. Some level of distinction is appropriate, however. It would seem that the most important considerations in this case are the dormer's scale, vertical alignment and general compatibility of form.

- Parking area and retaining wall on west side of property. Although discussed in concept during the workshop sessions, details of this site improvement have been provided for the first time with the final submission. The proposal calls for a parking area @ 28' wide, sufficient to park three cars abreast. Though several dimensions are not indicated on the enclosed site plan (see ATTACHMENT 3), it appears that the paved area extends about 36' deep into the lot and that its eastern edge is about 2' from the building's side elevation. Access to the parking area will be from the existing curb cut.

The parking area is proposed to be paved in brick pavers. (The note on the

plan indicates that the pavers will match as closely as possible the pavers in the existing driveway, however they are a historic paver and it is not clear a good match can be found.) It appears from the site plan that the large maple tree near the sidewalk and within the parking area is to remain.

Surrounding the rear portion of the paved area is a 42" high, 12" thick concrete retaining wall. As the land will slope away from the street, the top of the wall will be 12"-18" above the grade of the street. As the paved area will drain towards the wall, a catch basin and drain through the wall are provided. The wall will have a brick veneer on the street-facing side and a precast concrete cap—see ATTACHMENT 5, Detail #7.

As shown, the proposed parking area will occupy most of the west side yard of the property. The layout presents three cars parked abreast of each other and parallel to the street. The distance between the surrounding retaining wall and the building's west elevation appears to be negligible. While the treatment (brick pavers, retaining wall with brick veneer, etc.) is commendable, staff questions the proposal to accommodate three cars in this side yard, especially given the fact there is a driveway and garage on the other side of the house. Also, if the existing mature tree within the parking area is to remain, as it appears from the plan, staff questions whether it would survive.

The project architect should also be asked to clarify how much of the west flank of the retaining wall will be visible as one approaches the property from the west.

- Railing systems. The proposal calls for the installation of Trex "Transcend" railing systems for the open porch on the west elevation and for the east side entry porch. This is a composite system with an integrated acrylic or PVC shell. There are no plans paint the railings. According to the note on the plan all fasteners will be fully concealed. (See ATTACHMENT 9 for product information and ATTACHMENT 3 for railing details.)

As with the question of the replacement windows, the Board is being asked to consider whether use of an alternative material is appropriate for the porch railings. If the Board is open to use of an alternative material, clarification should be provided about the product's finish and whether it will match all visual qualities of a traditional wood railing system.

With regard to the railing design for the east side porch (see detail on ATT. 3), staff notes that the railing is continuous, with no through-posts. In staff's view, the railing should feature a more traditional post and rail design, particularly on a building of this architectural distinction.

- Added window opening on west elevation. The final proposal calls for an

added window opening on the west elevation's first floor level. The window is shown to the right of the decorative bay. Currently, there are three vertically aligned window openings that are centered on this wall.

It appears that this added window opening was shown on the elevations provided for the second workshop, however staff did not call it out at the time and there was no Board discussion of it. The Board will need to decide whether this alteration is acceptable.

Applicable Ordinance Review Standards (from Standards for Review of Alterations)

- (1) Every reasonable effort shall be made to provide a compatible use for the property which requires minimal alteration to the character-defining features of the structure, object or site and its environment or to use a property for its originally intended purpose.*
- (2) The distinguishing original qualities or character of a structure, object or site and its environment shall not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible.*
- (5) Distinctive features, finishes, and construction techniques or examples of skilled craftsmanship which characterize a structure, object or site shall be treated with sensitivity.*
- (6) Deteriorated historic features shall be repaired rather than replaced wherever feasible. Where the severity of deterioration requires replacement of a distinctive feature, the new feature should match the feature being replaced in composition, design, texture and other visual qualities and, where possible, materials. Repair or replacement of missing historic features should be based on accurate duplications of features, substantiated by documentary, physical or pictorial evidence rather than on conjectural designs or the availability of different architectural elements from other structures or objects.*
- (9) Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant cultural, historical, architectural or archeological materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the size, scale, color, material and character of the property, neighborhood or environment.*
- (10) Wherever possible, new additions or alterations to structures and objects shall be undertaken in such a manner that, if such additions or alterations were to be removed in the future, the essential form and integrity of the historic property would be unimpaired.*

Motion for Consideration:

On the basis of plans and specifications submitted by the applicant for the August 11, 2021

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public hearing and information included in the accompanying staff report, the Board finds that the proposed scope of work at 5 Eastern Promenade, including alterations, additions and site improvements, **meets (fails to meet)** the historic preservation ordinance's Standards for Review of Alterations **(subject to the following conditions.....)**

Attachments:

1. Final project narrative
2. Existing elevations and photos
3. Proposed site plan
4. Proposed elevations
5. Details
6. Dormer section
7. Roof plan
8. Schematic floor plans
9. Railing specifications
10. Window specifications
11. Light fixture specification



Historic Preservation Board Review

August 11, 2021

5 Eastern Promenade, Portland, Maine
04101

Project Overview

Elevation Restoration and Modifications

Roof Restoration and Modifications

Site Modifications

Window Replacement

Attachments

- Photos
- Color Palette
- Window Specification
- Roofing Specification
- Rail / Baluster Specification
- Light Fixtures
 - o Existing Fixture at Side Door to Restore
 - o New Fixture at Front Porch

Drawings

- Site Plan (proposed)
- Elevations (existing) with keyed photos
- Schematic Floor Plans
- Roof Plan
- Elevations (proposed)
- Details

Project Overview

Port City Architecture, along with Mechanical, Electrical, Plumbing, and Structural Engineers have been commissioned to renovate and restore the existing structure at 5 Eastern Promenade in Portland. The original single-family house was built in 1898, but was converted to a three-unit residential use, and it has been this use for an extended period of time (est. 1956). In its current layout, there is one unit located on the main level, with the second level containing two units. The plan for this project is to remodel the interior to keep the three units, but to have the second level contain the second unit only, while the third unit will be relocated to the attic level.

As part of this renovation, the exterior will be renovated and restored. Divided light windows will be rebuilt and restored, while existing vinyl replacement windows will be removed and replaced with modern historically correct replica windows with insulated glass. There are also some existing original windows that will not be restored but replaced. This is due in part to the existing poor condition of some of the windows, but is also to keep a level of visual consistency with all the types and groupings of the various windows.

The exterior will also be repaired and restored where necessary and the entire building will be repainted with a period correct historic color palette. The existing asphalt shingle roofing will also be replaced.

There will be modifications to the existing South (rear) elevation and to the West (side) elevation. These modifications are intended to be modest interventions that retain the original design intent of the house, while introducing more visual connection between each unit and the harbor views. We feel these modifications are necessary to be able to bring a successful three-unit project. These modifications are detailed in the Elevation improvements section of this submission.

Elevation Restoration / Modifications

As stated, part of this project is to restore and repair the existing elevations. Below is a summary of each elevation. Please also see the attachments with the existing elevations (with keyed photos) and the new elevations.

North (front) Elevation:

The goal for the front elevation is to restore this elevation as much as feasible. All of the divided light windows on this elevation will be removed, restored, and reinstalled. This includes the diamond mullion windows on the first level, and the door sidelights. The archtop triple on the second level will also be restored. The archtop stained glass window will be restored and remain a stained-glass window. The remainder of the windows will be removed and replaced with modern replica windows with insulated glass to maintain consistency throughout all elevations.

The front door will be restored along with the iron grille (except for the top corner piece which will be removed to match the other corner, see attached photos). The brick, wall shingles, and trim will be restored as required and the shingles (and trim) will be painted to an historic color palette (ideally matching the original color). Originally, there was scrolling on the eave fascia at the first level roof that extended around the front porch. There is only a small portion of it left on the right side and none of it is left on the porch fascia. The little that is left will be repaired as much as feasible and remain, but the portions around the entire front porch that are missing will not be recreated. Finally, the ceiling light on the porch will be replaced (see attached cut sheet).

East Elevation (driveway):

All of the windows on this elevation are either one-over-one original windows or existing vinyl replacement windows. The windows will be replaced with modern replica windows to maintain continuity. This elevation will be repaired where necessary, with the wall shingles to be painted per the front elevation. The existing wood side porch and stair will be removed and replicated as closely as possible per the original drawings (see attached details). The side door will be replaced and the existing screen door will be removed (it is not believed that the screen door is original). There is a wall mounted light fixture adjacent to the side door that is believed to be early 20th century (see photos). This will be restored and reinstalled. Finally, a trash / recycling area will be located towards the back on this elevation to conceal the trash and recycling containers as this area is visible from the street and it will resemble the construction of the adjacent side porch.



West Elevation (parking):

The first level bay window will be restored and reinstalled (with a new storm window). The remainder of the windows (original and existing vinyl replacement) will be replaced with modern replica windows. As with the other elevations, this elevation will be repaired where required and the wall shingles (and trim) will be repainted. The existing fire escape is no longer needed per code and will be removed.



Existing Porch

The windows on the rounded first level porch are an alternating mix of fixed and in-swing casements with solid panels below the windows. During investigations a newspaper article was found with a 1901 photograph (3 years after construction) that showed that the windows and panels on the porch were not original to the building. It is unknown when the porch glazing/panels were installed. The existing glazing and panels will be removed per the original design. From the photograph, it appears that there was an existing open railing that surrounded this porch. A new 36" high code compliant open railing with balusters will be installed to replace the panels.

We are requesting one new window on this side elevation. We propose to place this window between the existing bay window and the existing brick chimney on the first floor. This window will be a one-over-one window that is consistent with the original adjacent windows.

We are also requesting a dormer in the attic level to provide natural light into a new master bedroom planned for this area. The dormer will be a shed dormer with a 4:12 pitch and four equal windows (14" w. x 12" h). These dormer windows are set higher on the roof with the window sills set at 5'-0" above the attic floor. The intent is to recognize that this is a recent addition, while being a minimal element to this roof.

South (rear) Elevation:

This elevation consists of a mix of existing vinyl replacement windows with a few original wood windows. The program calls for any existing windows to have new replica windows.

At the basement level the existing arched top masonry openings are to have new replica windows with wood bottom panels and new doors with insulated glass and a wood bottom panel. We are requesting a total of five (5) new window openings and one (1) new door opening on this level. Two new windows are located in the turret and the remaining windows



Arched Opening at Lower Level

are in the center of this elevation. There are also two existing windows that are set higher up at the ceiling level. These two windows will be modified to remain consistent with the other windows on this level.

At the first level the round sun porch is expected to be renovated to the original design intent (see Side Elevation narrative). The remainder of the windows on this elevation will be replaced with new replica windows. There are no new openings proposed for this level.

At the second level all existing windows are to be replaced with new replica windows. Two new window openings are to be cut into the wall to either side of the existing paired windows under the center gable. The two new openings will be slightly smaller (2'-6" wide vs. 2'-9 1/2" wide) and pulled away from the center element to allow the wall shakes between the existing windows and the new openings.



Existing Roof Area (New Deck)

Also on the second level there are two areas of existing EPDM roof that will be reconstructed to allow for exterior deck areas. The double doors out to the decks are in the same wall area as current window openings. These windows will be removed to allow for the door installation. Only three of the existing window openings were original to the design, the fourth window was an addition. We are proposing partial stem walls around the decks to minimize the amount of cable guardrails. The stem walls will have the same shingled wall covering as the remainder of the house. The upper portion of the guardrails will be horizontal cable rails, painted metal posts, and a wood top rail.

At the attic level all existing double hung windows (vinyl replacements and original wood) are to be replaced with replica wood windows. The small off-center window within the gable was a later addition and is to be removed.

We are requesting two reverse shed dormers to be constructed within the existing roof area to allow for deck access for Unit 3. The new exterior wall will be recessed approximately 3'-0" to allow for the deck area within the Unit. The roof pitch of the reverse dormers will be kept to a 6 :12 pitch and the trim will be kept to a minimum.

Roof Restoration / Modifications

The majority of the current roof is a dark red asphalt shingled roof. The sun porch on the first level is an existing EPDM roof and will be repaired as required. The asphalt

shingled roof will be removed and replaced with an asphalt shingled roof, with a color that complements the new historic color scheme (see attached specification). There are also sections of eave that have a white aluminum drip cap that will be removed and replaced with period correct flashing.

There is also an area of flat roof at the top of the structure. This is an area that is an EPDM roof with an existing skylight. The existing skylight will be relocated to coincide with the attic level layout and moved back (further away from Eastern Promenade).

Site Modifications

Site modifications will be kept to a minimum. There are two sections of concrete walkway from the sidewalk to the existing front granite steps, and they will be replaced.



Front Walk, Fencing, and Handrails

as the existing topography drops sharply to the south. This retaining wall is requested to be brick masonry (to match the existing lower level of the house) with a stone cap. On the back side of the retaining wall, the new HVAC units will be located (see Elevations). We are proposing to mount the units to the wall and install screening to conceal the piping from the units to the house.

The concrete sidewalk sections to the side entrance will be repaired in kind. All of the existing chain-link fencing will be removed. The iron handrails on the front steps will be secured and painted. There will be a parking area for three cars at the east facade. This area is currently marked by uneven asphalt (that will be removed) and will be expanded slightly to allow for three spaces and surfaced with brick masonry pavers. A low retaining wall will be required along the rear and property line side of the parking spaces

Window Replacement

As previously stated, the windows in this project will either be restored and reinstalled or be removed and replaced. The windows of a more decorative nature on the front elevation (and the box bay on the West Elevation) will be restored. The remainder of original (one over one) and previously replaced windows will be replaced.

We are proposing to remove the outermost trim, leave the existing flat trim, and remove the existing original sashes or existing replacement windows. The existing flat trim will serve as the nailing flange for the new windows. Then an outer trim will be installed to cover the nailing flanges of the new windows. This trim will replicate the removed trim with an integral flat trim to closely replicate existing conditions.

The window sills will be left in place with the new sloped aluminum still setting on top of the current sills. See details 9, 10, and 11, on sheet A-3.0.



Outer trim removed, flat trim to remain.
Replace with new trim to match existing.



Outer trim removed, flat trim to remain. Sill to remain. Replace with new trim to match existing.

Photos



View from Eastern Promenade



View from Eastern Promenade



View from up the hill on Munjoy St.



View from up the hill on Atlantic St.



View from the Eastern Promenade Trail



View from the Eastern Promenade Trail



View from the Eastern Promenade Trail



Close-Up View from the Eastern Promenade Trail



Side Elevation (driveway)



Side (driveway) and Rear Elevation



Rear Elevation



Side Elevation (parking)

Historic Photos



Tax Photograph from 1924

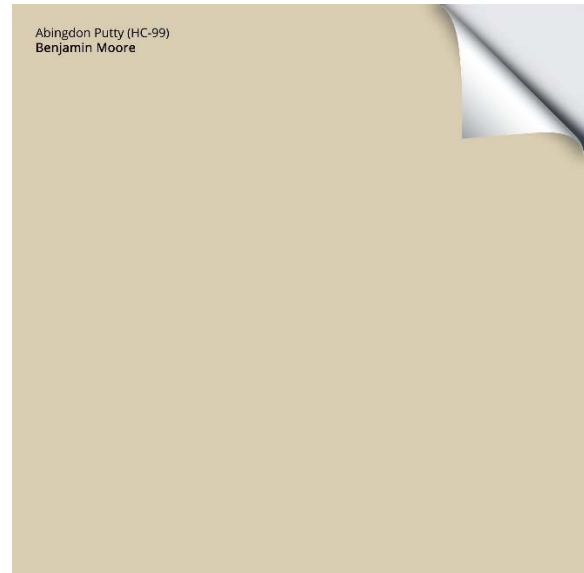


Newspaper Article from 1901

Color Palette



Main (shingle) color – Knoxville Grey (HC-160)



Trim Color – Abingdon Putty (HC-90)



Figure 1Roof Shingle Color - Driftwood



Window Color - Satin Steel

Existing Light Fixture



Fixture at side porch to be restored



Fixture at side porch to be restored





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[illegible]

NOT FOR CONSTRUCTION

5 Eastern Prom Portland, Maine

**DEMO - NORTH
ELEVATION
PHOTOS**

Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	

D 2.2

scale



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5 Eastern Prom Portland, Maine

DEMO - NORTH
ELEVATION
PHOTOS

Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	

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5 Eastern Prom
Portland, Maine

DEMO - NORTH ELEVATION PHOTOS

Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	

2.4

Scale



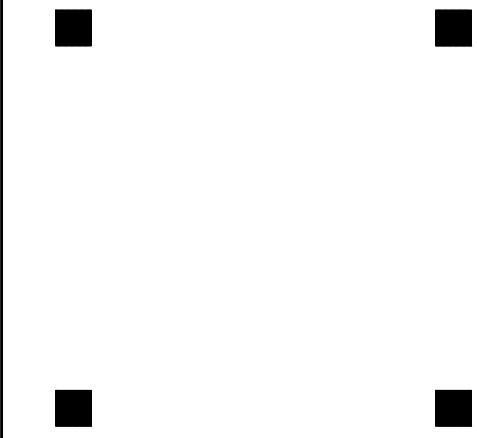
M. CORNER OF GRILLE TO BE REMOVED, FROM NORTH ELEVATION.



N. CORNER OF GRILLE TO BE MATCHED, FROM NORTH ELEVATION.



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REVISIONS		
No.	Description	Date
1	Historic Preservation - Workshop	6/23/2021
2	Historic Preservation - Workshop	7/14/2021
3	Historic Preservation - Final Review	7/26/2021

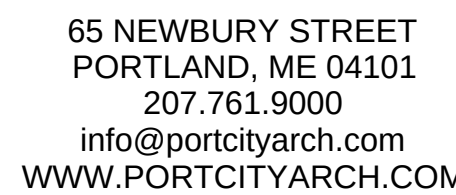
NOT FOR CONSTRUCTION

5 Eastern Prom
Portland, Maine

DEMO - NORTH
ELEVATION
PHOTOS

Project Number 21100
Date July 26, 2021
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No.	Description	Date
1	Historic Preservation - Workshop	6/23/2
2	Historic Preservation - Workshop	7/14/2
3	Historic Preservation - Final Review	7/26/2

DEMO - SOUTH
ELEVATION

Project Number	211
Date	July 26, 20
Drawn by	M
Checked by	

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O. MODERN WINDOW TO BE REMOVED, FROM SOUTH ELEVATION.



P. EXISTING PICTURE WINDOW TO BE REPLACED WITH NEW PICTURE WINDOW, FROM SOUTH ELEVATION.



Q. DAMAGED PANELS TO BE REMOVED AND REPLACED (WITH BALLUSTERS), FROM SOUTH ELEVATION.



R. MISSING SHINGLE TO BE REPLACED, FROM SOUTH ELEVATION.



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NOT FOR CONSTRUCTION

5 Eastern Prom
Portland, Maine

DEMO - SOUTH
ELEVATION
PHOTOS

Project Number21100

DateJuly 26, 2021

Drawn byMC

Checked by

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REVISIONS		
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2	Historic Preservation - Workshop	7/14/20
3	Historic Preservation - Final Review	7/26/20

NOT FOR CONSTRUCTION

5 Eastern Prom Portland, Maine

**DEMO - SOUTH
ELEVATION
PHOTOS**

Project Number	2110
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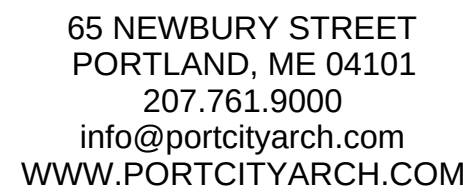
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Drawn by _____ M

Checked by _____

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- RESTORATION AND ALTERATION GENERAL NOTES:

- REPAIR AND REPLACE EXISTING WOOD WALL SHINGLES AS REQUIRED. PAINT ENTIRETY OF WALL SHINGLES
- REPAIR AND RESTORE EXISTING WOOD TRIM AS REQUIRED. PAINT ENTIRETY OF WOOD TRIM
- REMOVE ENTIRETY OF EXISTING ASPHALT ROOF SHINGLES DOWN TO EXISTING ROOF SHEATHING. PROVIDE 15# ROOFING FELT WITH ICE & WATER SHIELD WITHIN 5' OF ALL EAVES, VALLEYS AND RIDGES. COVER WITH NEW ASPHALT SHINGLES.

WINDOW KEY - EXISTING ELEVATIONS:

- (A) EXISTING ORIGINAL WOOD WINDOW TO BE REMOVED, AND SALVAGED FOR RESTORATION.
- (B) EXISTING REPLACEMENT WINDOW TO BE REMOVED, DISCARDED, AND REPLACED.
- (C) EXISTING ORIGINAL WOOD WINDOW TO BE REMOVED, DISCARDED, AND REPLACED.

RESTORATION AND ALTERATION KEYED NOTES:

1. REMOVE ENTIRETITY OF CHAIN LINK FENCE.
2. DISASSEMBLE DETERIORATED BRICK WORK AND INSTALL NEW RESTORATION BRICK TO MATCH.
3. REPLICATE EXISTING WOOD CROWN MOLDING.
4. DUTCHMAN REPAIR - MATCH EXISTING.
5. REMOVE NEW 1/2 ROUND GUTTER AND DOWNSPOUTS.
6. REMOVE MODERN LIGHT FIXTURE AND REPLACE WITH NEW PERIOD APPROPRIATE LIGHT FIXTURE.
7. EXISTING ORNAMENTAL SCROLLING ON FASCIA TO REMAIN (PROTECT AS REQ'D). PAINT TO MATCH TRIM.
8. REMOVE EXISTING ROOF AND REFRAME STRUCTURE FOR NEW SHED DORMER.
9. REMOVE MODERN WINDOW AND RESTORE WALL TO MATCH.
10. REMOVE AND REFRAME SECTION OF WALL FOR NEW DOUBLE HUNG WINDOW.
11. (NOT USED)
12. REMOVE THROUGH WALL PIPE AND PATCH WITH RESTORATION BRICK.
13. REMOVE EXISTING WINDOW, WOOD PANELING, AND DOOR AND PREP FOR NEW DOOR AND WINDOW SYSTEM.
14. REMOVE PLUMBING VENT, PATCH ROOF TO MATCH.
15. REMOVE THROUGH WALL EXHAUST DUCT AND RESTORE WALL TO MATCH.
16. REMOVE MISC. ELECTRICAL BOXES AND PATCH ATTACHMENT POINTS AS REQUIRED.
17. CAREFULLY REMOVE VINES FROM WOOD SHINGLES AND BRICK FROM FIRST TWO LEVELS OF EAST ELEVATION AND REPOINT BRICK AS NECESSARY.
18. CAREFULLY REMOVE VINES FROM WOOD SHINGLES AND BRICK FROM BASEMENT WALLS TO SECOND FLOOR OF SOUTH ELEVATION AND REPOINT BRICK AS NECESSARY.
19. REMOVE WOOD SHINGLES FROM BAY WINDOW AND REPLACE WITH ASPHALT SHINGLES TO MATCH MAIN ROOF.
20. REMOVE STEEL FIRE ESCAPE AND PATCH ATTACHMENT POINTS.
21. REMOVE OLD POST AND REPLACE WITH NEW POST.
22. REMOVE PANELS AND TRIM AND REPLACE WITH 36" HIGH OPEN GUARDRAIL W/ BALUSTERS.
23. CUT AND POINT ENTIRE CHIMNEY.
24. DOOR TO BE RESTORED AND REINSTALLED.
25. REMOVE AND DISCARD EXISTING WINDOW SASHES AND TRIM AT EXISTING EXTERIOR PORCH. EXISTING COLUMNS TO REMAIN (REPAIR AS REQ'D).
26. DOOR TO BE REMOVED AND REPLACED (IN KIND).

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DEMO - EAST
ELEVATION

Project Number	21100
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Date July 26, 2021

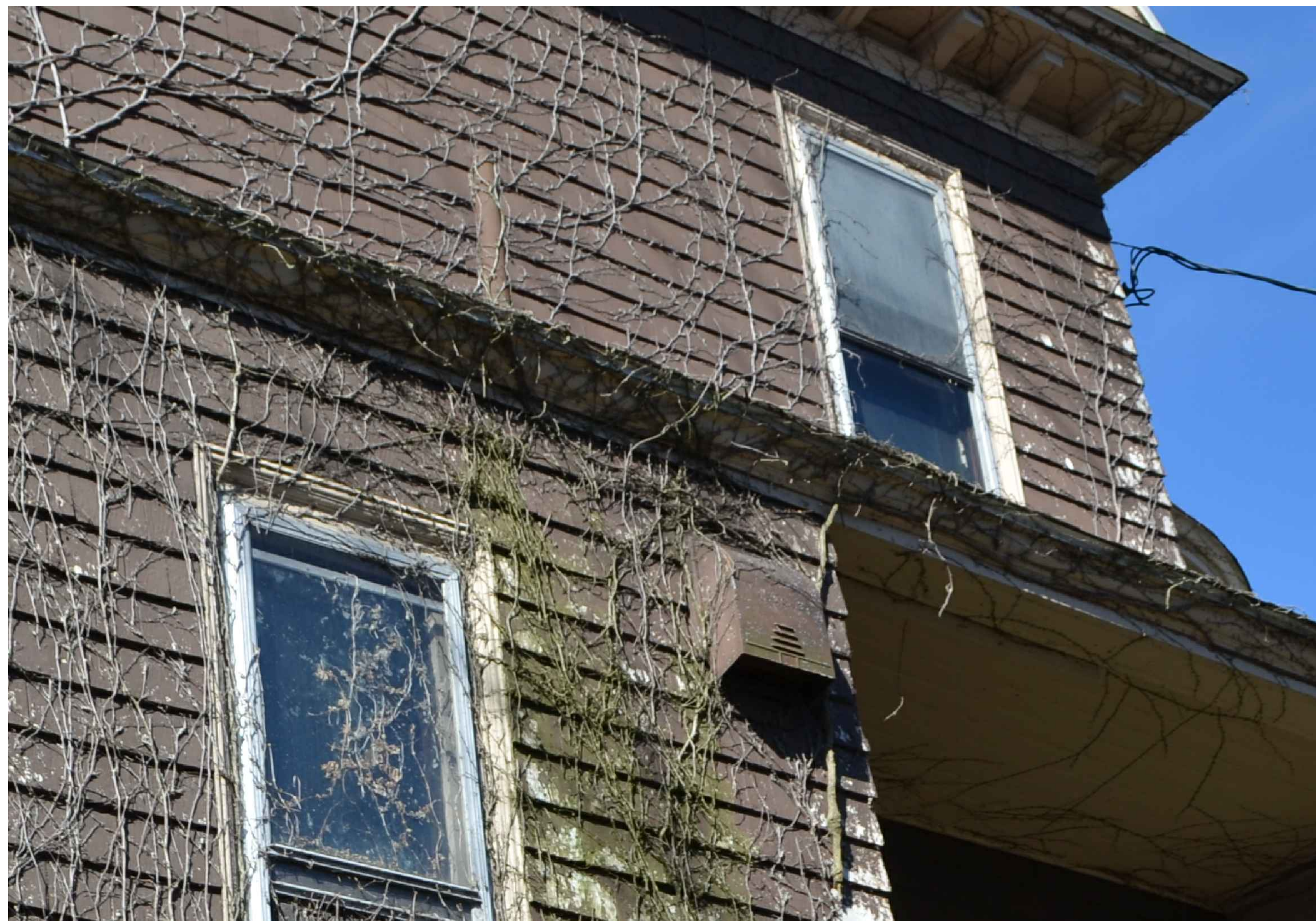
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ELEVATION KEY:

- ① RESTORATION AND ALTERATION ITEM.
- A ▲ PHOTO
- Ⓐ WINDOW KEY

RESTORATION AND ALTERATION GENERAL NOTES:

- REPAIR AND REPLACE EXISTING WOOD WALL SHINGLES AS REQUIRED. PAINT ENTIRETY OF WALL SHINGLES
- REPAIR AND RESTORE EXISTING WOOD TRIM AS REQUIRED. PAINT ENTIRETY OF WOOD TRIM
- REMOVE ENTIRETY OF EXISTING ASPHALT ROOF SHINGLES DOWN TO EXISTING ROOF SHEATHING. PROVIDE 15# ROOFING FELT WITH ICE & WATER SHIELD WITHIN 5' OF ALL EAVES, VALLEYS AND RIDGES. COVER WITH NEW ASPHALT SHINGLES.

WINDOW KEY - EXISTING ELEVATIONS:

- Ⓐ EXISTING ORIGINAL WOOD WINDOW TO BE REMOVED, AND SALVAGED FOR RESTORATION.
- Ⓑ EXISTING REPLACEMENT WINDOW TO BE REMOVED, DISCARDED, AND REPLACED.
- Ⓒ EXISTING ORIGINAL WOOD WINDOW TO BE REMOVED, DISCARDED, AND REPLACED.

RESTORATION AND ALTERATION KEYED NOTES:

- ① REMOVE ENTIRETY OF CHAIN LINK FENCE.
- ② DISASSEMBLE DETERIORATED BRICK WORK AND INSTALL NEW RESTORATION BRICK TO MATCH.
- ③ REPLICATE EXISTING WOOD CROWN MOLDING.
- ④ DUTCHMAN REPAIR - MATCH EXISTING.
- ⑤ REMOVE NEW 1/2 ROUND GUTTER AND DOWNSPOUTS.
- ⑥ REMOVE MODERN LIGHT FIXTURE AND REPLACE WITH NEW PERIOD APPROPRIATE LIGHT FIXTURE.
- ⑦ EXISTING ORNAMENTAL SCROLLING ON FASCIA TO REMAIN (PROTECT AS REQ'D). PAINT TO MATCH TRIM.
- ⑧ REMOVE EXISTING ROOF AND REFRAME STRUCTURE FOR NEW SHED DORMER.
- ⑨ REMOVE MODERN WINDOW AND RESTORE WALL TO MATCH.
- ⑩ REMOVE AND REFRAME SECTION OF WALL FOR NEW DOUBLE HUNG WINDOW.
- ⑪ (NOT USED)
- ⑫ REMOVE THROUGH WALL PIPE AND PATCH WITH RESTORATION BRICK.
- ⑬ REMOVE EXISTING WINDOW, WOOD PANELING, AND DOOR AND PREP FOR NEW DOOR AND WINDOW SYSTEM.
- ⑭ REMOVE PLUMBING VENT, PATCH ROOF TO MATCH.
- ⑮ REMOVE THROUGH WALL EXHAUST DUCT AND RESTORE WALL TO MATCH.
- ⑯ REMOVE MISC. ELECTRICAL BOXES AND PATCH ATTACHMENT POINTS AS REQUIRED.
- ⑰ CAREFULLY REMOVE VINES FROM WOOD SHINGLES AND BRICK FROM FIRST TWO LEVELS OF EAST ELEVATION AND REPOINT BRICK AS NECESSARY.
- ⑱ CAREFULLY REMOVE VINES FROM WOOD SHINGLES AND BRICK FROM BASEMENT WALLS TO SECOND FLOOR OF SOUTH ELEVATION AND REPOINT BRICK AS NECESSARY.
- ⑲ REMOVE WOOD SHINGLES FROM BAY WINDOW AND REPLACE WITH ASPHALT SHINGLES TO MATCH MAIN ROOF.
- ⑳ REMOVE STEEL FIRE ESCAPE AND PATCH ATTACHMENT POINTS.
- ㉑ REMOVE OLD POST AND REPLACE WITH NEW POST.
- ㉒ REMOVE PANELS AND TRIM AND REPLACE WITH 36" HIGH OPEN GUARDRAIL W/ BALUSTERS.
- ㉓ CUT AND POINT ENTIRE CHIMNEY.
- ㉔ DOOR TO BE RESTORED AND REINSTALLED.
- ㉕ REMOVE AND DISCARD EXISTING WINDOW SASHES AND TRIM AT EXISTING EXTERIOR PORCH. EXISTING COLUMNS TO REMAIN (REPAIR AS REQ'D.).
- ㉖ DOOR TO BE REMOVED AND REPLACED (IN KIND).



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REVISIONS		
No.	Description	Date
1	Historic Preservation - Workshop	6/23/2021
2	Historic Preservation - Workshop	7/14/2021
3	Historic Preservation - Final Review	7/26/2021

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DEMO - WEST
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Z. FIRE ESCAPE TO BE REMOVED AND ATTACHMENT POINTS REPAIRED, FROM WEST ELEVATION.



AA. SHINGLES TO BE REMOVED AND REPLACED ON BAY ROOF, FROM WEST ELEVATION.



BB. WOOD TO BE REMOVED AND WOOD CROWN TO BE REPAIRED, FROM WEST ELEVATION.



CC. WOOD POST TO BE REPLACED, FROM WEST ELEVATION.



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REVISIONS		
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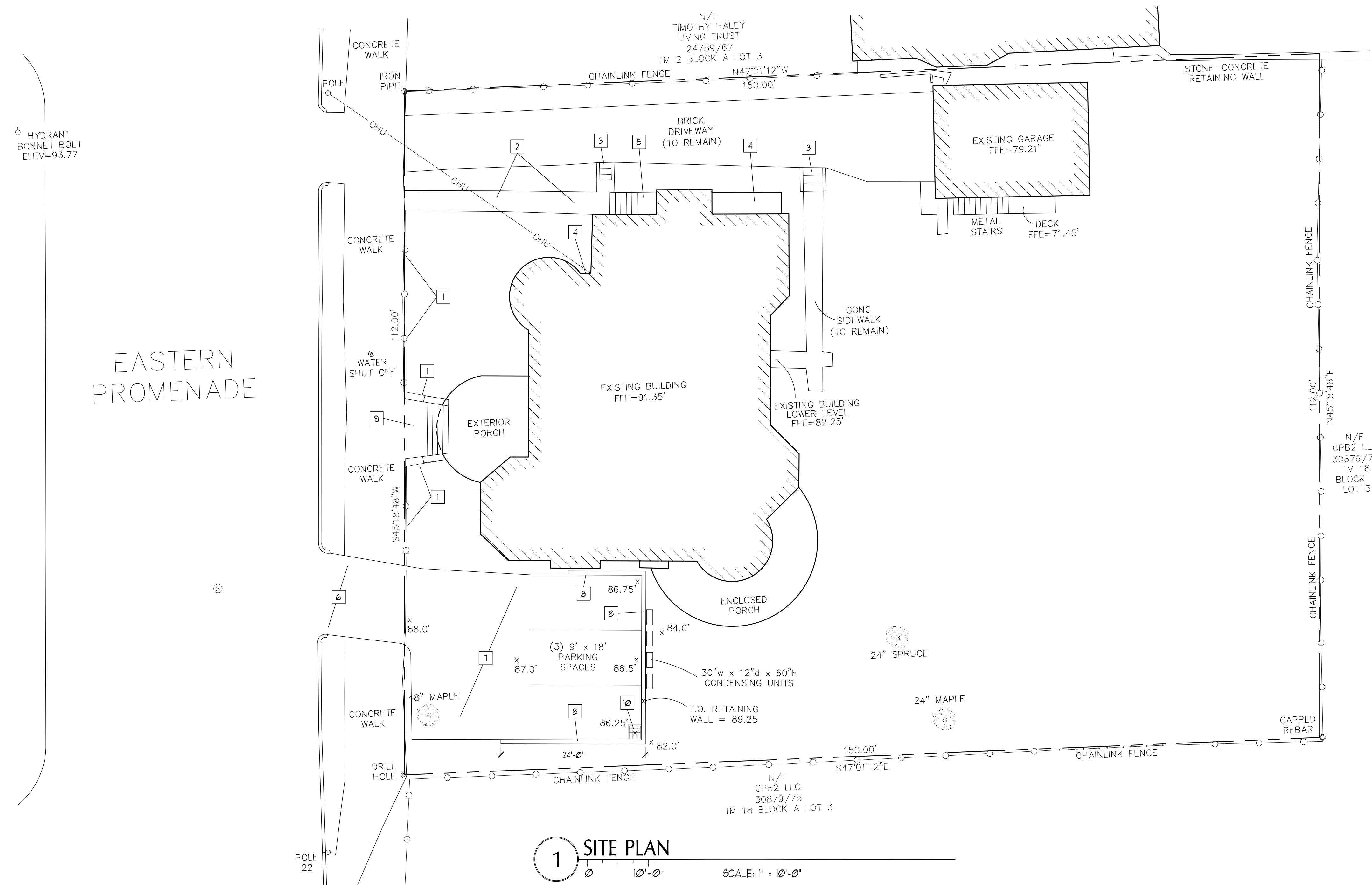
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- ### SITE PLAN - KEYED NOTES

- 1 REMOVE AND DISCARD ALL PORTIONS OF CHAIN-LINK FENCING ON THE FRONT OF THE PROPERTY.
- 2 EXISTING CONCRETE SIDEWALK TO REMAIN. REPAIR EXISTING DAMAGED SECTIONS OF SIDEWALK AS REQUIRED TO MATCH EXISTING.
- 3 EXISTING CONCRETE STAIR TO REMAIN.
- 4 PROVIDE AND INSTALL NEW TRASH / RECYCLING ENCLOSURE (SEE ELEVATIONS AND DETAILS 4, 5, AND 6, SHT. A-3.0).
- 5 REMOVE AND DISCARD ALL PORTIONS OF EXISTING STAIR LANDING, AND GUARD/HANDRAILS. REPLACE WITH NEW WOOD STAIR, LANDING, AND GUARD/HANDRAILS AS REQ'D. BY CODE (SEE ELEVATIONS AND DETAILS 1, 2, AND 3, SHEET A-3.0).
- 6 EXISTING CURB CUT TO REMAIN
- 7 REMOVE ALL PORTIONS OF EXISTING ASPHALT PAVING. PROVIDE PARKING AREA WITH THREE (3) 9' x 18' PARKING SPACES (NOTE: SPOT GRADES ARE APPROXIMATE). NEW PARKING AREA TO BE BRICK PAVERS (MATCH EXISTING DRIVEWAY PAVERS AS CLOSELY AS POSSIBLE).
- 8 PROVIDE CONCRETE RETAINING WALL W/ BRICK VENEER AND CAP STONE. TOP OF CAP STONE TO BE APPROX. 3'-6" ABOVE PARKING SURFACE (SEE ELEVATIONS AND DETAIL 1, SHEET A-3.0).
- 9 REPLACE PORTIONS OF CONCRETE WALKWAY BETWEEN EXISTING CONCRETE SIDEWALK AND GRANITE STEPS TO MATCH EXISTING.
- 10 PROVIDE DRAINAGE GRATE WITH THRU-WALL PIPING AT GRADE
- 11 EXISTING WALL MOUNTED ELECTRICAL METER LOCATION TO REMAIN. (NOTE: EXISTING METERS WILL BE REPLACED WITH NEW METERS WITH TWO ADDITIONAL METERS, TOTAL OF FIVE METERS ARE REQUIRED).



PROPOSED RECYCLING AREA FROM SIDEWALK



PROPOSED RECYCLING AREA



EXISTING SIDEWALK REPAIR



EXISTING ASPHALT PARKING TO BE REMOVED / REPLACED



EXISTING LANDING AND STAIR TO BE REMOVED / REPLACED



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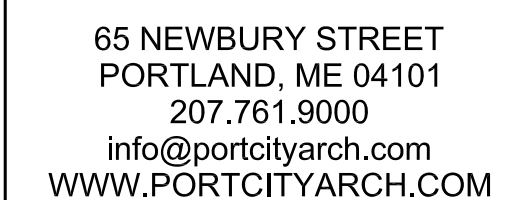
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SITE PLAN

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- REPAIR AND REPLACE IN-KIND EXISTING WOOD EXTERIOR WALL SHINGLES AS REQUIRED. PAINT ENTIRETY OF WALL SHINGLES BM #MC-160 'KNOXVILLE GRAY' (VERIFY COLOR W/ ARCH.)
- REPAIR AND REPLACE IN-KIND EXISTING WOOD TRIM (SEE EXISTING ELEVATIONS AND PHOTOS) AS REQUIRED. PAINT ENTIRETY OF WOOD TRIM BM #MC-99 'A'BINGDON PUTTY' (VERIFY COLOR W/ ARCH.)
- REMOVE ENTIRETY OF EXISTING ASPHALT ROOF SHINGLES DOWN TO EXISTING ROOF SHEATHING (TO REMAIN). PROVIDE 15" ROOFING FELT WITH ICE AND WATER SHIELD WITHIN 5' OF ALL EAVES VALLEYS AND RIDGES (TWO ROWS OF 36" WIDE OVERLAPPED 12"). COVER WITH ARCHITECTURAL ASPHALT SHINGLES EQ. TO OWENS CORNING TRUE DEFINITION 'DURATION' - COLOR TO BE 'DRIFTWOOD' (VERIFY W/ ARCH.). SEE ELEVATIONS FOR PORTIONS OF ROOF THAT IS EXISTING EPDM TO REMAIN AND BE REPAIRED AS REQ'D.

- 1 EXISTING EPDM ROOFING TO REMAIN. REPAIR AS REQUIRED.
- 2 ROOF OF BOX BAY TO BE NEW WOOD SHINGLES TO MATCH WALL SHINGLES.
- 3 (NOT USED)
- 4 PROVIDE AND INSTALL STEM WALL W/ CABLE RAIL AS SHOWN. STEM WALL TO BE 1'-10" ABOVE THE FINISH FLOOR OF THE DECK W/ HEIGHT OF TOP RAIL TO BE 3'-6" ABOVE THE FINISH FLOOR OF THE DECK.
- 5 PROVIDE AND INSTALL WOOD STAIR, LANDING, GUARDRAIL AND HANDRAILS W/ SKIRT PANELS (SEE DETAILS 1, 2, AND 3, SHEET A-3.0).
- 6 PROVIDE AND INSTALL WOOD TRASH AND RECYCLING ENCLOSURE W/ DBL SWING DOORS AND 4 : 12 SHED ROOF (SEE DTLS 4, 5, AND 6, SHT A-3.0).
- 7 REPLACE DOOR W/ NEW DOOR
- 8 EXISTING REMOVED DOOR TO BE RESTORED AND REINSTALLED
- 9 REMOVE AND RESTORE EXISTING IRON GRILL IN FRONT ENTRY DOOR. NOTE: THE TOP CORNER OF THE GRILLE IS TO BE REMOVED TO MATCH THE OTHER TOP CORNER.
- 10 RESTORED STAINED GLASS WINDOW TO HAVE A CUSTOM STORM WINDOW WITH CUSTOM CUTS AT TOP AND BOTTOM TO ALLOW FOR AIR FLOW.
- 11 PROVIDE AND INSTALL NEW DOOR.
- 12 PROVIDE STONE VENEER CONCRETE RETAINING WALL AT PARKING AREA (SEE SITE PLAN AND DETAIL 7, SHEET A-3.0).
- 13 HVAC UNITS TO BE WALL-HUNG ON CONCRETE RETAINING WALL.
- 14 ELECTRIC METER LOCATION (EXISTING AND NEW).
- 15 36" HIGH CURVED RAILING AND BALUSTER SYSTEM (SEE DETAIL 8, SHT A-3.0).
- 16 CABLE RAIL W/ DBL. TOP RAIL (SEE SECTION, SHT A-3.1)
- 17 NEW REVERSE DORMER WITH DOUBLE DOORS AND SHED ROOF (SEE SECTION, SHEET A-3.1)

(A) RESTORE EXISTING SALVAGED WINDOW AND REINSTALL AS REQUIRED. PAINT WINDOW TO MATCH NEW ALUMINUM CLAD WINDOWS. PROVIDE AND INSTALL STORM WINDOW TO PROTECT SALVAGED WINDOW.

(B) REPLACE REMOVED VINYL WINDOW WITH NEW ALUM CLAD WINDOW (SEE SPEC). COLOR TO BE EQ. TO PELLA 'SATIN STEEL' (VERIFY W/ ARCH). SEE DETAILS 9, 10, AND 11, SHEET A-30.

(C) REPLACE REMOVED ORIGINAL WOOD WINDOW WITH NEW ALUM CLAD WINDOW (SEE SPEC). COLOR TO BE EQ. TO PELLA 'SATIN STEEL' (VERIFY W/ ARCH). SEE DETAILS 9, 10, AND 11, SHEET A-30.

(D) PROVIDE AND INSTALL ALUM. CLAD WINDOW (SEE SPEC) IN NEW OPENING. COLOR TO BE EQ. TO PELLA 'SATIN STEEL' (VERIFY W/ ARCH).

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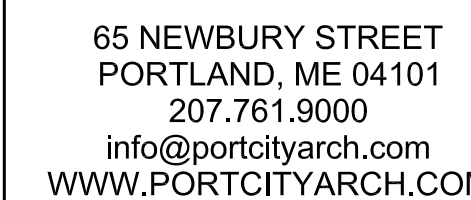
NORTH
ELEVATION

Project Number	21100
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- REPAIR AND REPLACE IN-KIND EXISTING WOOD EXTERIOR WALL SHINGLES AS REQUIRED. PAINT ENTIRETY OF WALL SHINGLES BM #4-160 'KNOXVILLE GRAY' (VERIFY COLOR W/ ARCH.)
- REPAIR AND REPLACE IN-KIND EXISTING WOOD TRIM (SEE EXISTING ELEVATIONS AND PHOTOS) AS REQUIRED. PAINT ENTIRETY OF WOOD TRIM BM #4-99 'ABINGDON PUTTY' (VERIFY COLOR W/ ARCH.)
- REMOVE ENTIRETY OF EXISTING ASPHALT ROOF SHINGLES DOWN TO EXISTING ROOF SHEATHING (TO REMAIN). PROVIDE 15' ROOFING FELT WITH ICE AND WATER SHIELD WITHIN 5' OF ALL EAVES VALLEYS AND RIDGES (TWO ROWS OF 36" WIDE OVERLAPPED 12"). COVER WITH ARCHITECTURAL ASPHALT SHINGLES EQ. TO OWEN CORNING TRUE DEFINITION 'DURATION' - COLOR TO BE 'DRIFTWOOD' (VERIFY W/ ARCH.). SEE ELEVATIONS FOR PORTIONS OF ROOF THAT IS EXISTING EPDM TO REMAIN AND BE REPAIRED AS REQD.
- DECKS LOCATED AT FRONT PORCH, SIDE PORCH, ROUNDED FIRST FLOOR PORCH, SECOND LEVEL DECKS, AND THIRD FLOOR DECKS TO BE 5/4" FIR DECK BOARDS WITH CLEAR EXT. SEALANT.

- 1 EXISTING EPDM ROOFING TO REMAIN. REPAIR AS REQUIRED.
- 2 ROOF OF BOX BAY TO BE NEW WOOD SHINGLES TO MATCH WALL SHINGLES (NOT USED)
- 4 PROVIDE AND INSTALL STEM WALL W/ CABLE RAIL AS SHOWN. STEM WALL TO BE 1'-10" ABOVE THE FINISH FLOOR OF THE DECK W/ HEIGHT OF TOP RAIL TO BE 3'-6" ABOVE THE FINISH FLOOR OF THE DECK.
- 5 PROVIDE AND INSTALL WOOD STAIR, LANDING, GUARDRAIL AND HANDRAILS W/ SKIRT PANELS (SEE DETAILS 1, 2, AND 3, SHEET A-3.0).
- 6 PROVIDE AND INSTALL WOOD TRASH AND RECYCLING ENCLOSURE W/ DBL SWING DOORS AND 4 : 12 SHED ROOF (SEE DTLS 4, 5, AND 6, SHT A-3.0).
- 7 REPLACE DOOR W/ NEW DOOR
- 8 EXISTING REMOVED DOOR TO BE RESTORED AND REINSTALLED
- 9 REMOVE AND RESTORE EXISTING IRON GRILL IN FRONT ENTRY DOOR. NOTE: THE TOP CORNER OF THE GRILLE IS TO BE REMOVED TO MATCH THE OTHER TOP CORNER.
- 10 RESTORED STAINED GLASS WINDOW TO HAVE A CUSTOM STORM WINDOW WITH CUSTOM CUTS AT TOP AND BOTTOM TO ALLOW FOR AIR FLOW.
- 11 PROVIDE AND INSTALL NEW DOOR.
- 12 PROVIDE STONE VENEER CONCRETE RETAINING WALL AT PARKING AREA (SEE SITE PLAN AND DETAIL 1, SHEET A-3.0).
- 13 HVAC UNITS TO BE WALL-HUNG ON CONCRETE RETAINING WALL
- 14 ELECTRIC METER LOCATION (EXISTING AND NEW).
- 15 36" HIGH CURVED RAILING AND BALUSTER SYSTEM (SEE DETAIL 8, SHT A-3.0)
- 16 CABLE RAIL W/ DBL. TOP RAIL (SEE SECTION, SHT A-3.1)
- 11 NEW REVERSE DORMER WITH DOUBLE DOORS AND SHED ROOF (SEE SECTION, SHEET A-3.1)

(A) RESTORE EXISTING SALVAGED WINDOW AND REINSTALL AS REQUIRED. PAINT WINDOW TO MATCH NEW ALUMINUM CLAD WINDOWS. PROVIDE AND INSTALL STORM WINDOW TO PROTECT SALVAGED WINDOW.

(B) REPLACE REMOVED VINYL WINDOW WITH NEW ALUM CLAD WINDOW (SEE SPEC). COLOR TO BE EQ. TO PELLA "SATIN STEEL" (VERIFY W/ ARCH.). SEE DETAILS 9, 10, AND 11, SHEET A-3-0.

(C) REPLACE REMOVED ORIGINAL WOOD WINDOW WITH NEW ALUM CLAD WINDOW (SEE SPEC). COLOR TO BE EQ. TO PELLA "SATIN STEEL" (VERIFY W/ ARCH.). SEE DETAILS 9, 10, AND 11, SHEET A-3-0.

(D) PROVIDE AND INSTALL ALUM. CLAD WINDOW (SEE SPEC) IN NEW OPENING. COLOR TO BE EQ. TO PELLA "SATIN STEEL" (VERIFY W/ ARCH.).

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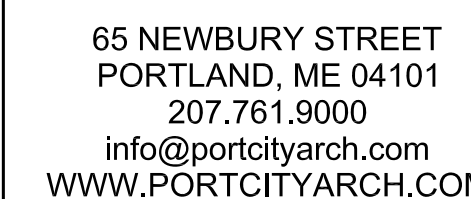
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Project Number	21100
Date	July 26, 2021
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1 SOUTH ELEVATION - PROPOSED



- REPAIR AND REPLACE IN-KIND EXISTING WOOD EXTERIOR WALL SHINGLES AS REQUIRED. PAINT ENTIRETY OF WALL SHINGLES BM #4C-160 'KNOXVILLE GRAY' (VERIFY COLOR W/ ARCH.)
- REPAIR AND REPLACE IN-KIND EXISTING WOOD TRIM (SEE EXISTING ELEVATIONS AND PHOTOS) AS REQUIRED. PAINT ENTIRETY OF WOOD TRIM BM #4C-99 'ABINGDON PUTTY' (VERIFY COLOR W/ ARCH.)
- REMOVE ENTIRETY OF EXISTING ASPHALT ROOF SHINGLES DOWN TO EXISTING ROOF SHEATHING (TO REMAIN). PROVIDE 1/2" ROOFING FELT WITH ICE AND WATER SHIELD WITHIN 5' OF ALL EAVES VALLEYS AND RIDGES (TWO ROWS OF 36" WIDE OVERLAPPED 12"). COVER WITH ARCHITECTURAL ASPHALT SHINGLES EQ. TO OWENS CORNING TRUE DEFINITION "DURATION" - COLOR TO BE "DRIFTWOOD" (VERIFY W/ ARCH.). SEE ELEVATIONS FOR PORTIONS OF ROOF THAT IS EXISTING EPDM TO REMAIN AND BE REPAIRED AS REQD.
- DECKS LOCATED AT FRONT PORCH, SIDE PORCH, ROUNDED FIRST FLOOR PORCH, SECOND LEVEL DECKS, AND THIRD FLOOR DECKS TO BE 5/4" FIR DECK BOARDS WITH THE CLEAR EXT. SEALANT.

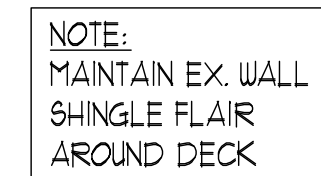
- 1 EXISTING EPDM ROOFING TO REMAIN. REPAIR AS REQUIRED.
- 2 ROOF OF BOX BAY TO BE NEW WOOD SHINGLES TO MATCH WALL SHINGLES
- 3 (NOT USED)
- 4 PROVIDE AND INSTALL STEM WALL W/ CABLE RAIL AS SHOWN. STEM WALL TO BE 1'-10" ABOVE THE FINISH FLOOR OF THE DECK W/ HEIGHT OF TOP RAIL TO BE 3'-6" ABOVE THE FINISH FLOOR OF THE DECK.
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- 6 PROVIDE AND INSTALL WOOD TRASH AND RECYCLING ENCLOSURE W/ DBL SWING DOORS AND 4 : 12 SHED ROOF (SEE DTLS 4, 5, AND 6, SHT A-3.0).
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- 11 PROVIDE AND INSTALL NEW DOOR
- 12 PROVIDE STONE VENEER CONCRETE RETAINING WALL AT PARKING AREA (SEE SITE PLAN AND DETAIL 1, SHEET A-3.0).
- 13 HVAC UNITS TO BE WALL-HUNG ON CONCRETE RETAINING WALL
- 14 ELECTRIC METER LOCATION (EXISTING AND NEW).
- 15 36" HIGH CURVED RAILING AND BALUSTER SYSTEM (SEE DETAIL 8, SHT A-3.0)
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(D) PROVIDE AND INSTALL ALUM. CLAD WINDOW (SEE SPEC) IN NEW OPENING. COLOR TO BE EQ. TO FELLA "SATIN STEEL" (VERIFY W/ ARCH.).

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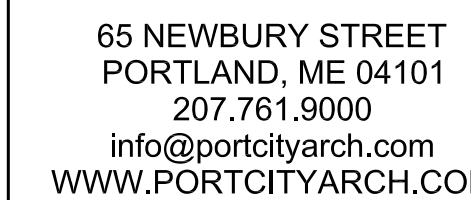
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EAST
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Date	July 26, 2021
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- REPAIR AND REPLACE IN-KIND EXISTING WOOD EXTERIOR WALL SHINGLES AS REQUIRED. PAINT ENTIRETY OF WALL SHINGLES BM #C-160 'KNOXVILLE GRAY' (VERIFY COLOR W/ ARCH.)
- REPAIR AND REPLACE IN-KIND EXISTING WOOD TRIM (SEE EXISTING ELEVATIONS AND PHOTOS) AS REQUIRED. PAINT ENTIRETY OF WOOD TRIM BM #C-93 'ABINGDON PUTTY' (VERIFY COLOR W/ ARCH.)
- REMOVE ENTIRETY OF EXISTING ASPHALT ROOF SHINGLES DOWN TO EXISTING ROOF SHEATHING (TO REMAIN). PROVIDE 15" ROOFING FELT WITH ICE AND WATER SHIELD WITHIN 5' OF ALL EAVES VALLEYS AND RIDGES (TWO ROWS OF 36" WIDE OVERLAPPED 12"). COVER WITH ARCHITECTURAL ASPHALT SHINGLES EQ. TO QUOTE CORNING TRUE DEFINITION 'DURATION' - COLOR TO BE 'DRIFTWOOD' (VERIFY W/ ARCH.). SEE ELEVATIONS FOR PORTIONS OF ROOF THAT IS EXISTING EPDM TO REMAIN AND BE REPAIRED AS REQ'D.
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- 13 HVAC UNITS TO BE WALL-HUNG ON CONCRETE RETAINING WALL
- 14 ELECTRIC METER LOCATION (EXISTING AND NEW).
- 15 36" HIGH CURVED RAILING AND BALUSTER SYSTEM (SEE DETAIL 8, SHT A-3.0)
- 16 CABLE RAIL W/ DBL. TOP RAIL (SEE SECTION, SHT A-3.1)
- 17 NEW REVERSE DORMER WITH DOUBLE DOORS AND SHED ROOF (SEE SECTION, SHT A-3.1)

(A) RESTORE EXISTING SALVAGED WINDOW AND REINSTALL AS REQUIRED. PAINT WINDOW TO MATCH NEW ALUMINUM CLAD WINDOWS. PROVIDE AND INSTALL STORM WINDOW TO PROTECT SALVAGED WINDOW.

(B) REPLACE REMOVED VINYL WINDOW WITH NEW ALUM CLAD WINDOW (SEE SPEC). COLOR TO BE EQ. TO PELLA 'SATIN STEEL' (VERIFY W/ ARCH.). SEE DETAILS 9, 10, AND 11, SHEET A-30.

(C) REPLACE REMOVED ORIGINAL WOOD WINDOW WITH NEW ALUM CLAD WINDOW (SEE SPEC). COLOR TO BE EQ. TO PELLA 'SATIN STEEL' (VERIFY W/ ARCH.). SEE DETAILS 9, 10, AND 11, SHEET A-30.

(D) PROVIDE AND INSTALL ALUM. CLAD WINDOW (SEE SPEC) IN NEW OPENING. COLOR TO BE EQ. TO PELLA 'SATIN STEEL' (VERIFY W/ ARCH.).

[illegible]

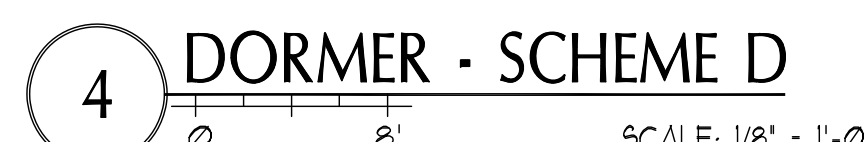
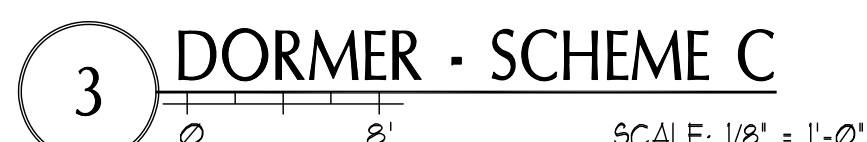
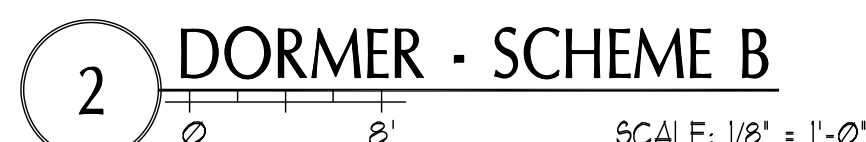
5 Eastern Prom Portland, Maine

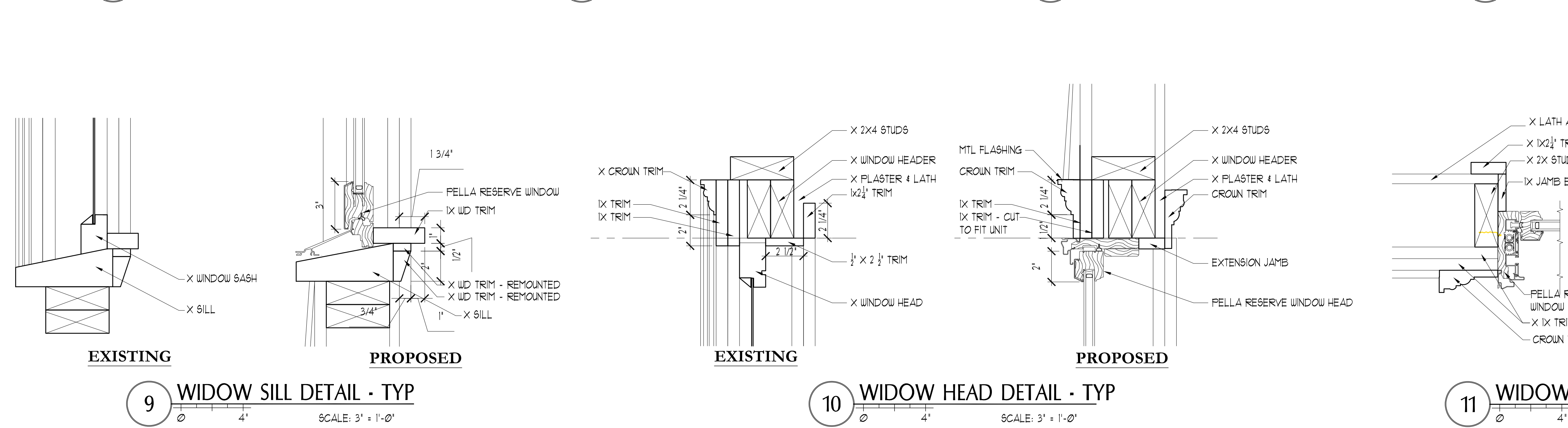
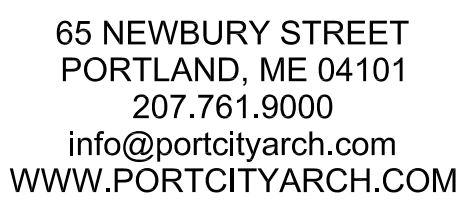
WEST
ELEVATION

Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	

A 2.4

Scale





**NOT FOR
CONSTRUCTION**

DETAILS

Project Number	21100
Date	July 14, 2021
Drawn by	MC
Checked by	
A 3.0	
Scale	

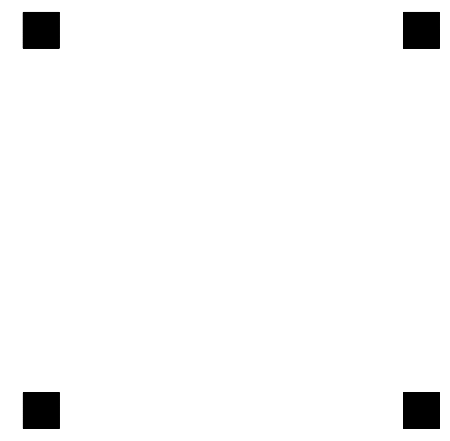


Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	
A 4.0	
Scale	

1 REAR DECK / DORMER SECTION



65 NEWBURY STREET
PORTLAND, ME 04101
207.761.9000
info@portcityarch.com
WWW.PORTCITYARCH.COM



REVISIONS

[illegible]

NOT FOR CONSTRUCTION

5 Eastern Prom Portland, Maine

ROOF PLAN

Project Number	21100
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Date	July 26, 2021
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Drawn by MC

Checked by _____

A 1.4

Scale



Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	
A 1.0	
Scale	



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PORTLAND, ME 04101
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[illegible]

NOT FOR CONSTRUCTION

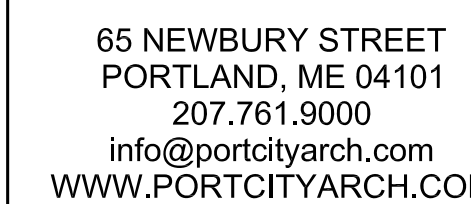
5 Eastern Prom Portland, Maine

FIRST FLOOR PLAN

Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	

A 1.1

Scal

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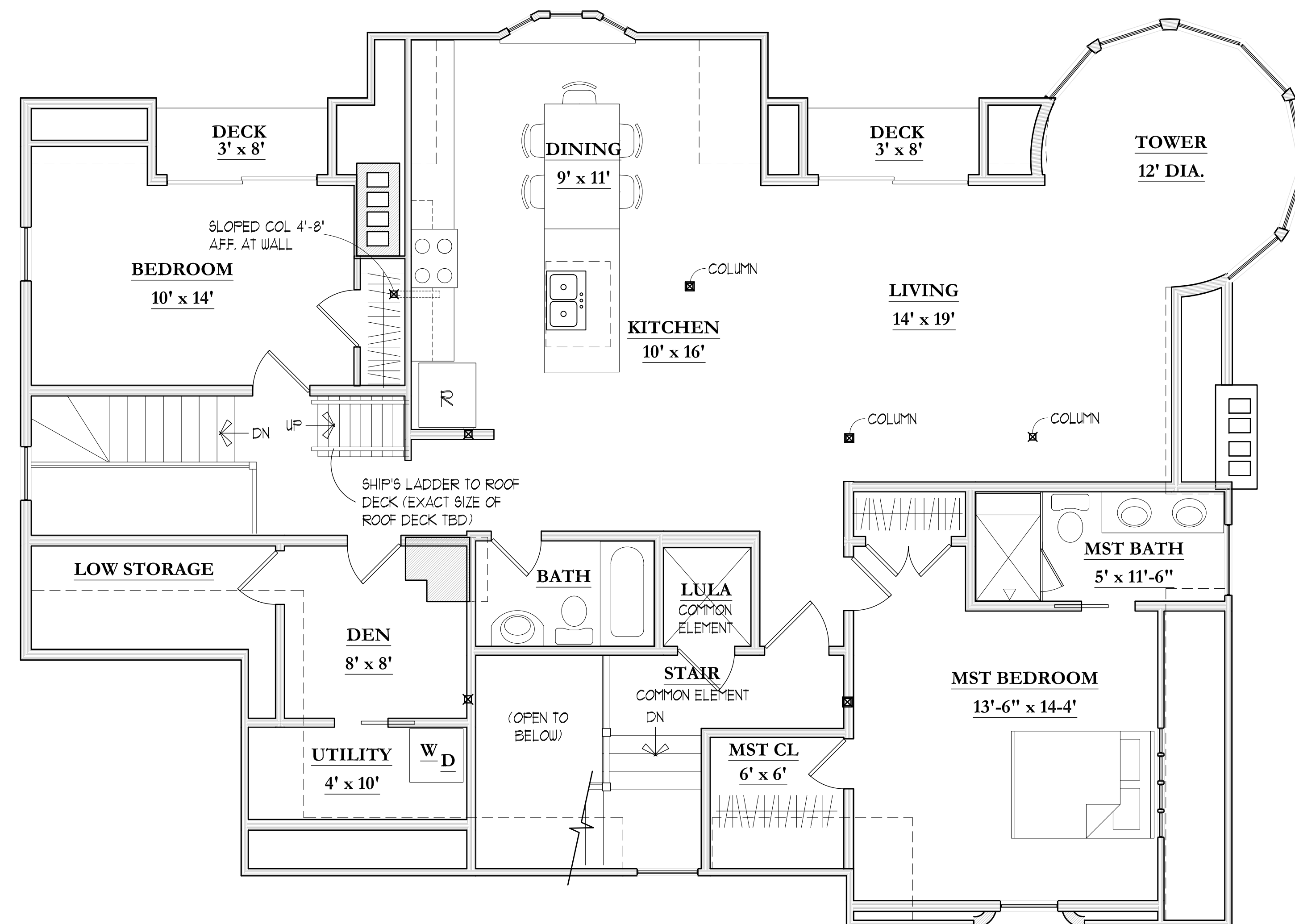
5 Eastern Prom Portland, Maine

SECOND FLOOR PLAN

Project Number	21100
Date	July 26, 2021
Drawn by	MC
Checked by	
A 1.2	
Scale	



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1 THIRD FLOOR PLAN

[illegible]

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THIRD FLOOR PLAN

Project Number 2110

July 26, 202

own by M

checked by

A 1.3



MIX-AND-MATCH RAILING COMPONENTS & KITS

Trex Transcend® railing is a wood thermoplastic composite railing lineal with an integrated shell (made from either acrylic or PVC) that covers all exposed surfaces. The thermoplastic core is different from that used in Trex® decking products, and has a unique set of properties designed to fit the guardrail application. The integrated shell utilizes PVC (for Classic White and Gravel Path colors) and acrylic (all other colors) to provide a long-lasting natural aesthetic. An alternative to both metal and wood guardrails, Trex composite railing products are a minimum of 40% recycled content of wood fiber and recycled polymeric content by weight.

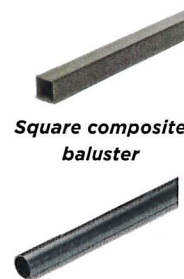
RAILING COMPONENTS



Post components:
post sleeve, cap, skirt



**Crown top rail and
Universal top/bottom rail**



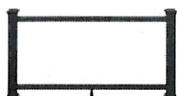
**Square composite
baluster**

**Round aluminum
baluster**



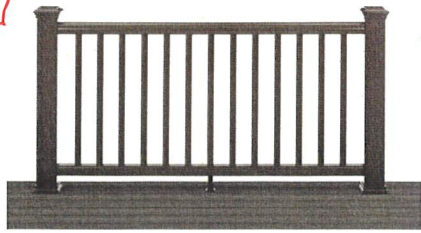
**Infill kits: baluster spacers,
foot block, mounting hardware**

COMPONENT	HEIGHTS	LENGTHS	WIDTHS	COLORS
Post Sleeve	40" (101 cm) 108" (274 cm)	—	4.45" x 4.45" (113 mm x 113 mm)	WT, BK, GP, RS, TH, VL
	39" (990 mm) 108" (274 cm)	—	5.5" x 5.5" (139 mm x 139 mm)	WT
Post Cap & Skirt	—	—	4.55" x 4.55" (115 mm x 115 mm)	WT, BK, GP, RS, TH, VL
	—	—	5.55" x 5.55" (140 mm x 140 mm)	WT
Crown Top Rail & Universal Top/Bottom Rail	—	67.5" (171 cm) 91.5" (232 cm)	—	WT, BK, GP, RS, TH, VL
Square Composite Baluster	30.375" (771 mm) 36.375" (923 mm)	—	1.418" (36 mm)	WT, BK, GP, RS, TH, VL
Round Aluminum Baluster	30.25" (768 mm) 36.25" (920 mm)	—	.75" (19 mm)	WT, BZ, BK
Infill Kits*	—	67.5" (171 cm) 91.5" (232 cm)	—	WT, BK, GP, RS, TH, VL

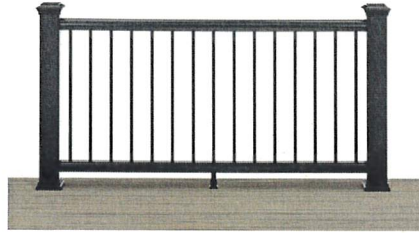


*Glass panel infill kits available in 67.5" lengths in horizontal applications.
Infill panel sold separately. To complete your rail section, visit glass.trex.com

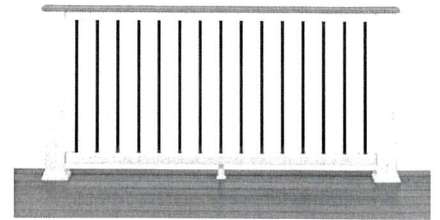
RAIL KITS



Rail & Square Composite Baluster Kit



Rail & Round Aluminum Baluster Kit



Cocktail Rail & Round Aluminum Baluster Kit

COMPONENT	RAIL & SQUARE COMPOSITE BALUSTER KIT	RAIL & ROUND ALUMINUM BALUSTER KIT	COCKTAIL RAIL & ROUND ALUMINUM BALUSTER KIT*
Top Rail	Crown	Crown	Universal
Bottom Rail	Universal	Universal	Universal
Heights	36" (914 mm) 42" (106 cm)	36" (914 mm) 42" (106 cm)	36" (914 mm)
Lengths	67.5" (171 cm) 91.5" (232 cm)	67.5" (171 cm) 91.5" (232 cm)	67.5" (171 cm) 91.5" (232 cm)
Applications	Horizontal, Stair	Horizontal, Stair	Horizontal, Stair
Colors	WT, BK, VL	WT, BK, VL (round aluminum balusters come in BK)	WT (round aluminum balusters come in BK)

*A cocktail rail allows for a Trex Transcend® or Trex Select® deck board to be installed on top of a Universal top/bottom rail. All deck boards sold separately.

COLORS

Composite



Aluminum



→ COLOR FOR
TOP/ BOTTOM RAILS
& BALUSTERS
(MATCH BLDG. TRIM)

CODE REQUIREMENTS

Trex Transcend Railing meets both IRC and IBC designated requirements in accordance with ICC-ES AC174 and ASTM D7032. Refer to Code Compliance Report CCRR-0132 for specific details.

HARDWARE

Mounting Hardware for Cut Rails

The perfect solution for any installation that requires making two railing sections from one kit.

Includes 2 Crown top rail gaskets, 4 Universal top/bottom rail gaskets, 4 RSB rail brackets, 8 rail-to-bracket fasteners and 8 rail-to-post fasteners.



QUESTIONS?

Connect with our pro services team at
1-800-BUY-TREX or customercare@trex.com



TruDefinition®
DURATION®
Shingles with Patented SureNail® Technology



Estate Gray†



TOTAL PROTECTION. TOTAL CONFIDENCE.®



SEAL.



DEFEND.



BREATHE.

TruDefinition® DURATION®

Shingles with Patented SureNail® Technology

Bold contrast. Deep dimension. TruDefinition®.

TruDefinition® Duration® Shingles are specially formulated to provide great contrast and dimension to any roof. Through the use of multiple granule colors and shadowing, *TruDefinition Duration* Shingles offer a truly unique and dramatic effect. This exclusive combination of color and depth is what makes *TruDefinition Duration* Shingles like no other.

TruDefinition Duration Shingles are available in popular colors with bold, lively contrast and complementing shadow lines for greater dimension. They feature a Limited Lifetime Warranty*/** (for as long as you own your home) and 130-MPH Wind Resistance Limited Warranty.* Beyond the outstanding curb appeal and impressive warranty coverage, they also come with the advanced performance of patented SureNail® Technology.



The SureNail® Difference— A technological breakthrough in roofing.

The innovative features of Owens Corning® TruDefinition® Duration® Shingles with patented SureNail® Technology offer the following:

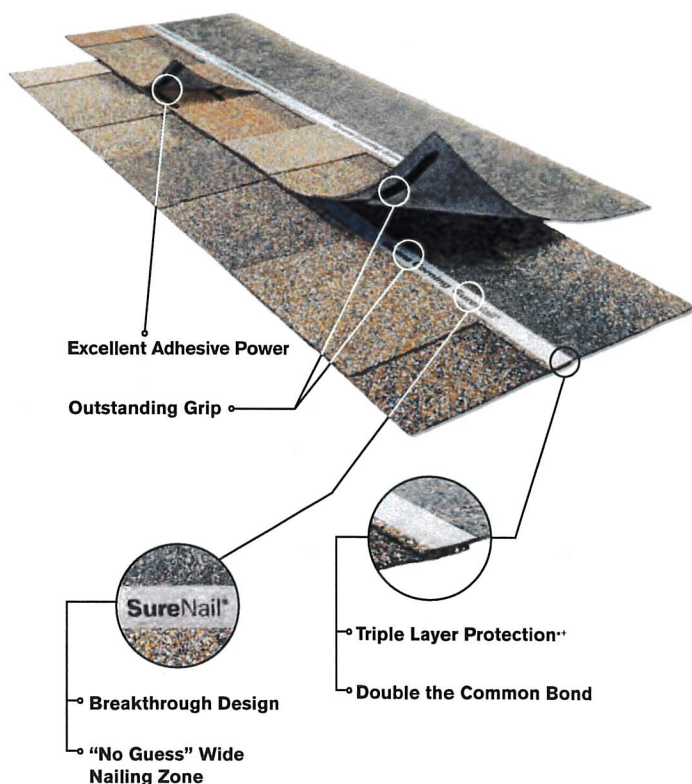
Breakthrough Design. Featuring a tough, woven engineered reinforcing fabric to deliver consistent fastening during installation.

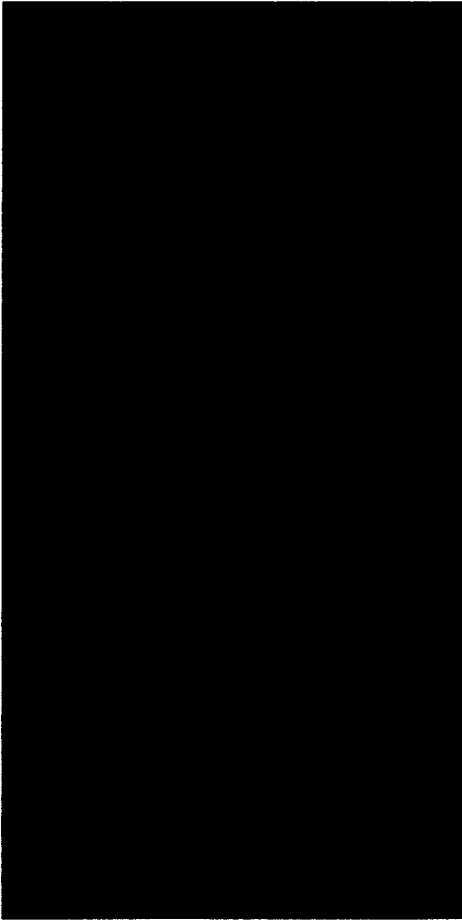
Triple Layer Protection.* A unique “triple layer” of reinforcement occurs when the fabric overlays the common bond of the shingle laminate layers that offers excellent fastener holding power.

Outstanding Grip. Our enhanced Tru-Bond® sealant grips tightly to the engineered fabric nailing strip on the shingle below.

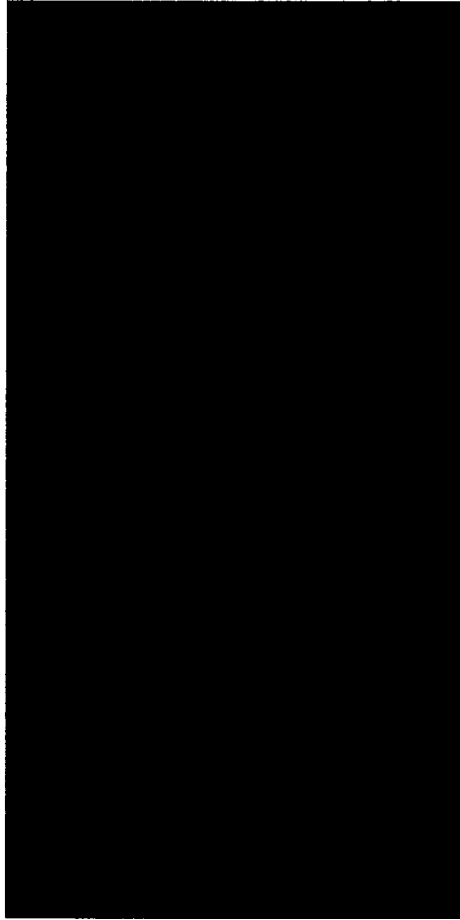
Excellent Adhesive Power. Specially formulated, wide adhesive bands help keep shingle layers laminated together.

Exceptional Wind Resistance. Engineered to deliver 130-MPH* wind warranty performance with only 4 nails. Fewer nails required can mean fewer deck penetrations.

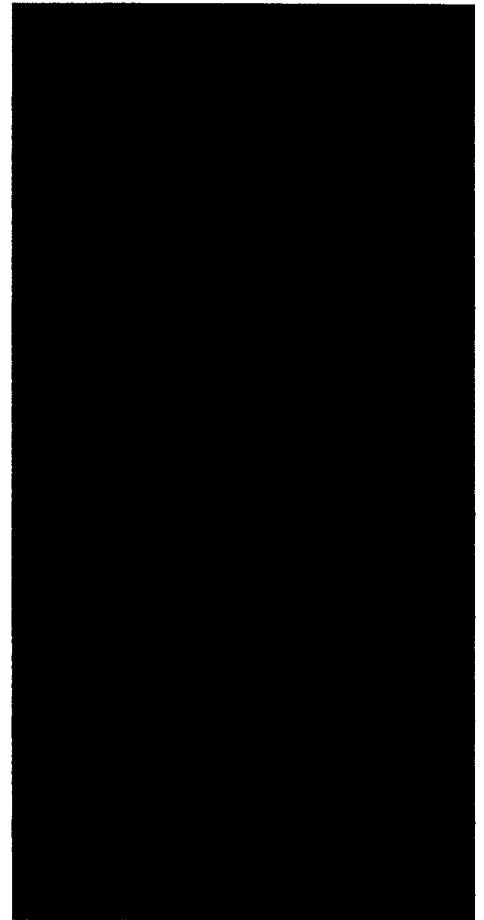




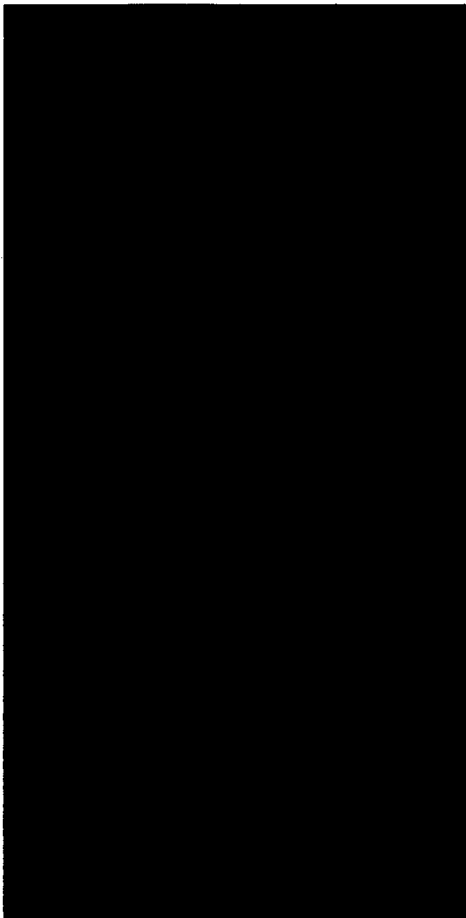
Brownwood†



Chateau Green†



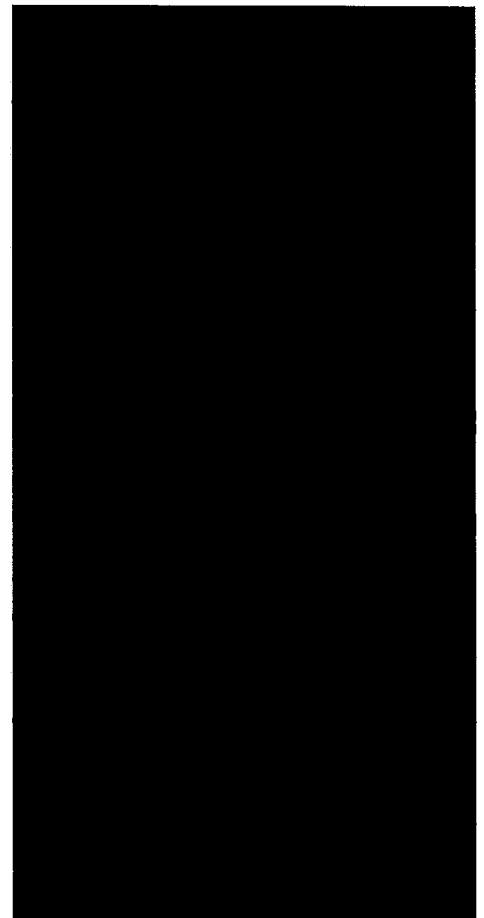
Desert Tan†



Onyx Black†



Quarry Gray†



Teak†



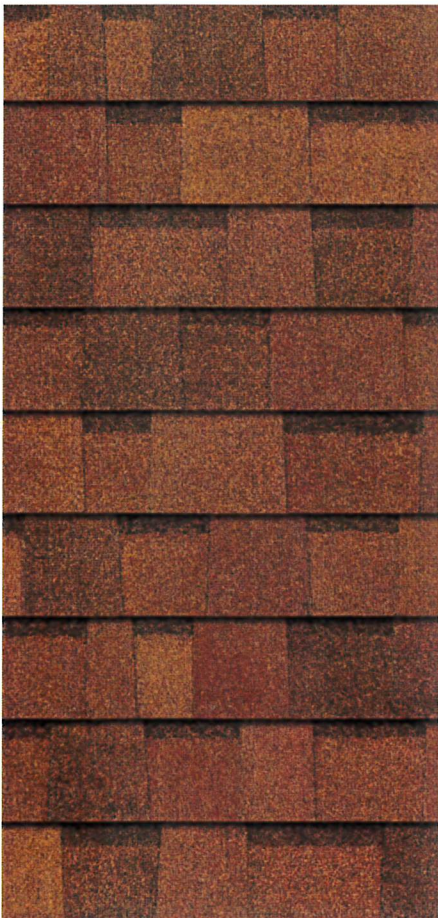
Driftwood†



Estate Gray†



Harbor Blue†



Terra Cotta†

COLOR AVAILABILITY MAP





Product Attributes

Warranty Length*

Limited Lifetime** (for as long as you own your home)

Wind Resistance Limited Warranty*

130 MPH

TRU PROtection* Non-Prorated Limited Warranty* Period

10 Years

TruDefinition® Duration® Shingles Product Specifications

Size	13 1/4" x 39 3/8"
Application Exposure	5 5/8"
Shingles per Bundle	Not less than 20
Average Shingle Count per 3 Bundles	64
Average Coverage per 3 Bundles	98.4 sq. ft.

Applicable Standards and Codes

ASTM D228

ASTM D3018 (Type 1)

ASTM D3161 (Class F Wind Resistance)

ASTM D3462

ASTM D7158 (Class H Wind Resistance)

ASTM E108/UL 790 (Class A Fire Resistance)

CSA A123.5++

ICC-ES AC438*

PRI ER 1378E01

* See actual warranty for complete details, limitations and requirements.

** 2018 Roofing Brand Awareness Study by Owens Corning Roofing and Asphalt, LLC.

† Owens Corning Roofing strives to accurately reproduce photographs of shingles. Due to manufacturing variances, the limitations of the printing process and the variations in natural lighting, actual shingle colors and granule blends may vary from the photo. The pitch of your roof can also impact how a shingle looks on your home. We suggest that you view a roofing display or several shingles to get a better idea of the actual color. To accurately judge your shingle and color choice, we recommend that you view it on an actual roof with a pitch similar to your own roof prior to making your final selection. Color availability subject to change without notice. Ask your professional roofing contractor for samples of colors available in your area.

+ The amount of Triple Layer Protection* may vary on a shingle-to-shingle basis.

++ Only on product sold in Canada.

‡ Tru-Bond® is a proprietary premium weathering-grade asphalt sealant that is blended by Owens Corning.

40-Year Limited Warranty on commercial projects.

International Code Council Evaluation Services Acceptance Criteria for Alternative Asphalt Shingles.

Owens Corning Roofing Platinum and Preferred Contractors are independent contractors and are not affiliates of Owens Corning Roofing and Asphalt, LLC or its affiliated companies.

For patent information, please visit www.owenscorning.com/patents.

SureNail® Technology is not a guarantee of performance in all weather conditions.

SureNail® Technology is available only on Owens Corning® Duration® Series Shingles.

^ Excludes non-Owens Corning® roofing products such as flashing, fasteners, pipe boots and wood decking.

Pella® Reserve™

Traditional Wood & Clad/Wood



Exquisitely designed windows and doors with unparalleled historical detailing.

Double-Hung Interior



Double-Hung Exterior



- **Historical details**

Our most historically authentic line of wood windows and patio doors. Featuring through-stile construction, deliberate proportions and intricate profiles. Pella Reserve – Traditional products are the ideal choice for historical renovations and traditional building projects.

- **Authentic hardware**

Complement your project with historically authentic spoon-lock window hardware. Our Antiek casement window hardware is inspired by period furniture to deliver authentic traditional style.

- **Architectural interest**

Featuring the industry's only foam spacer solution, Pella's Integral Light Technology® grille helps capture the look of true-divided-light without sacrificing energy performance. Further your aesthetic with the putty profile, recreated with historically accurate angles – providing meaningful depth and a realistic shadow. Pella Reserve products offer the industry's deepest sash dimension.

- **Virtually unlimited customization**

If you can dream it, we can build it with our most customizable product line. From extra tall to extra wide, Pella can craft unique windows that complement your aesthetic. Custom sizes, grille patterns and designs, finishes, wood types and glass options are available.

- **Tailor-made solutions**

From preliminary drawings to installation, Pella's expert team of architects, engineers, drafters and consultants can work to deliver custom window and door solutions for your project. Partner with Pella to achieve your unique vision without concessions.

- **Intentional innovation**

Winner of the 2019 Most Innovative Window from Window and Door Magazine, the Integrated Rolscreen® retractable screen preserves aesthetics and the view. It is a double- and single-hung screen that appears when you open the window, and rolls away, out of sight, when you close it.

- **Durable interiors and extruded aluminum exteriors**

To help save you time on the jobsite, interior finish options are available in a variety of paints and stains, or primed and ready-to-paint. To complement your exterior aesthetic, choose from our carefully curated color palette or define your own custom color for your project.

- **ENERGY STAR® certified¹**

Pella wood products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states. Pella Reserve products with triple-pane glass have been awarded the ENERGY STAR Most Efficient Mark in 2021.¹

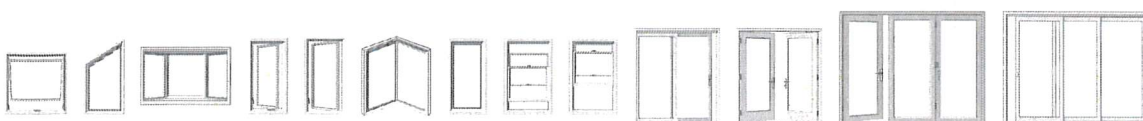
- **Testing beyond requirements**

At Pella, our products are tested beyond requirements to help ensure they have long-lasting performance and reduce call-backs for you.

- **Best limited lifetime warranty²**

Pella Reserve products are covered by the best limited lifetime warranty in the business for wood windows and patio doors.²

Available in these window and patio door styles:



Special shape windows also available.

Window Hardware

Classic Collection

Get a timeless look with authentic styles in classic finishes.



Fold-away Crank
Antiek



Spoon-Style Lock

Finishes:



Champagne



White



Brown



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Satin Brass⁵

Rustic Collection

Create a distinct and charming look with distressed finishes.



Fold-away Crank
Antiek



Spoon-Style Lock

Finishes:



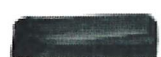
Distressed Bronze



Distressed Nickel

Essential Collection

Select from popular designs and finishes to suit every style.



Fold-away Crank



Cam-Action Lock

Finishes:



Champagne



White



Brown



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Satin Brass⁵

Patio Door Hardware

Classic Collection

Choose timeless pieces, created in collaboration with Baldwin® Hardware, for a look that will never go out of style.

BALDWIN



Hinged & Bifold Patio Door Handle
Virago



Sliding & Multi-Slide Patio Door Handle
Ambrose



Multi-Slide Patio Door Handle^{6,7}

Finishes:



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Satin Brass⁵

Essential Collection

Elevate your style and transform a home with elegant selections.



Hinged & Bifold Patio Door Handle



Sliding Patio Door Handle



Multi-Slide Patio Door Handle^{6,7}

Finishes:



Champagne



White



Brown



Matte Black



Oil-Rubbed Bronze



Satin Nickel



Satin Brass⁵

Product Specifications

Window & Patio Door Styles	Min. Width	Min. Height	Max. Width	Max. Height	Performance Class & Grade	Performance Values			Frame / Install
						U-Factor	SHGC	STC	
Awning	13-¾"	13-¾"	59"	59"	LC40-CW50	0.25-0.29	0.18-0.47	27-35	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Awning	17"	17"	53"	29"	R45-CW50	0.28-0.32	0.18-0.47	27-30	Pocket Replacement
Casement	13-¾"	13-¾"	47"	108"	R35-CW50	0.25-0.29	0.18-0.47	27-34	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Casement	17"	17"	35"	73"	R35-CW50	0.28-0.33	0.18-0.47	27-30	Pocket Replacement
Fixed Casement	10"	10"	144"	144"	R35-CW50	0.25-0.29	0.18-0.47	27-35	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Fixed Casement	17"	17"	59"	73"	R45-CW50	0.28-0.33	0.18-0.47	27-30	Pocket Replacement
Double-Hung	14"	24-¾"	48"	96"	CW30-CW50	0.25-0.30	0.19-0.53	28-35	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Double-Hung	13-½"	23-¾"	48"	84"	CW40-CW50	0.25-0.31	0.19-0.53	26-30	Pocket Replacement
Monumental Hung	13-¾"	24"	72"	144"	LC25-CW50	0.25-0.30	0.17-0.47	29-34	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
In-Swing Hinged Patio Door (Single)	18"	36"	48"	199-½"	LC40-LC55	0.25-0.29	0.14-0.40	31-35	
In-Swing Hinged Patio Door (Double)	36"	36"	96"	119-½"	LC40-LC55	0.25-0.29	0.14-0.40	31-35	
Out-Swing Hinged Patio Door (Single)	18"	36"	48"	119-½"	R50-LC70	0.25-0.30	0.14-0.39	30-36	
Out-Swing Hinged Patio Door (Double)	36"	36"	96"	119-½"	R50-LC70	0.25-0.30	0.14-0.39	30-36	
Sliding Patio Door (O)	30-¾"	74"	60-¾"	119-½"	LC40-LC70	0.29-0.32	0.15-0.42	—	
Sliding Patio Door (OX, XO)	59-¼"	74"	119-½"	119-½"	LC35-LC65	0.29-0.32	0.15-0.42	29-35	
Sliding Patio Door (OXO)	90"	74"	180"	119-½"	LC30-LC45	0.29-0.32	0.15-0.42	—	
Sliding Patio Door (OXXO)	116-½"	74"	236-½"	119-½"	LC25-LC40	0.29-0.32	0.15-0.42	—	For more info visit PellaADM.com
Multi-Slide Patio Door	40-¼"	50-½"	701-¾"	119-½"	R15-LC25 ³	0.30 - 0.36	0.15 - 0.46	31	
Bifold Patio Door	31-¾"	55-½"	312"	119-½"	R15-LC25 ³	0.26-0.44	0.13-0.45	—	

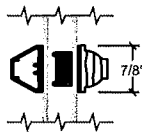
Window sizes available in 1/8" increments

Special sizes available. For more information regarding performance, visit pella.com/performance. For more information regarding frame and installation types, visit PellaADM.com.

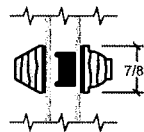
Grilles

Integral Light Technology³⁴

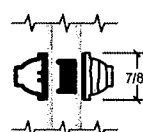
Choose the look of true divided light featuring the industry's only foam spacer.



Putty Glaze Exterior with Ogee Interior³⁴
7/8", 1-1/4" or 2"



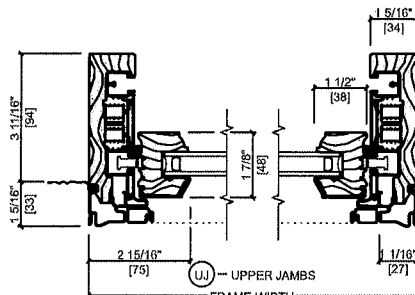
Putty Glaze Exterior with Ogee Interior³⁴
7/8", 1-1/4" or 2"



Ogee Exterior with Ogee Interior³⁴
7/8", 1-1/4" or 2"

Cross Sections

Cross Sections



Optional Fold-out Installation Fin

The double-hung cross sections provide visual reference to the historic putty exterior profile and traditional, beveled Ogee interior that add architectural interest to your project.

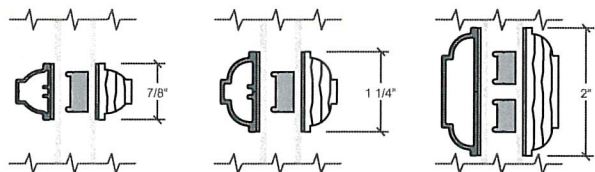


Grille Profiles

Integral Light Technology® Grilles

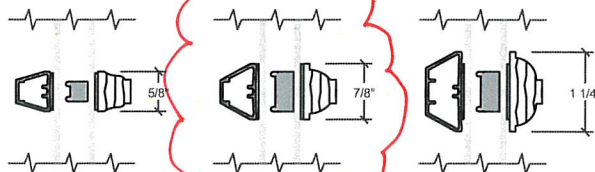
Ogee Grilles

Clad Exterior - Wood Interior



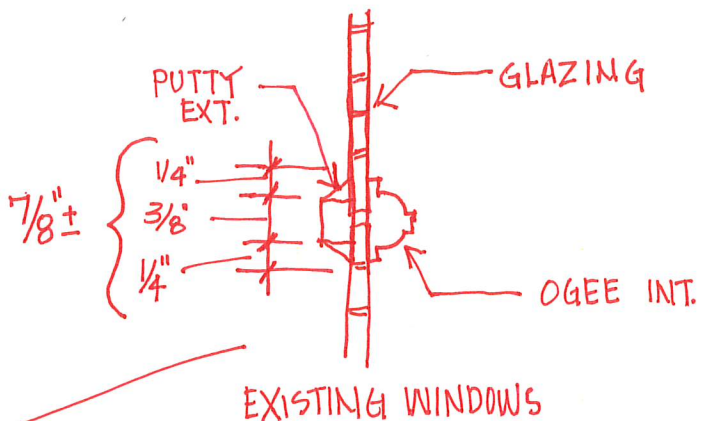
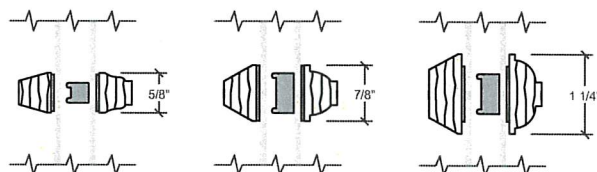
Putty Glaze and Ogee Grilles

Clad Exterior - Wood Interior

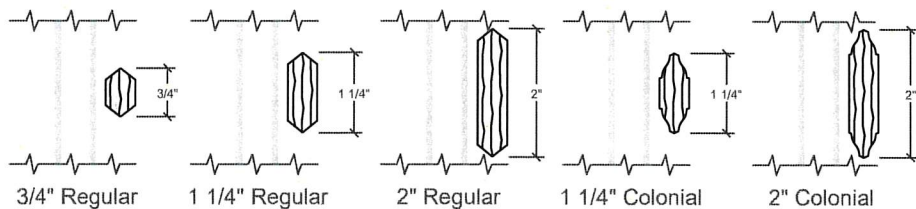


Putty Glaze and Ogee Grilles

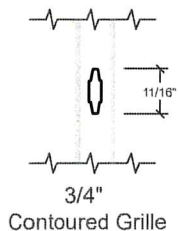
Wood Exterior - Wood Interior



Roomside Removable Grilles



Grilles-Between-the-Glass



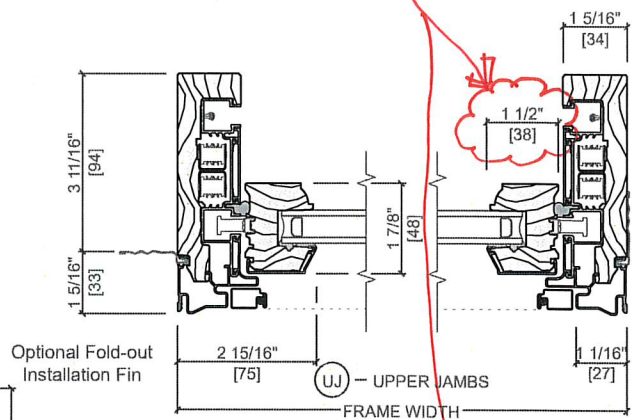
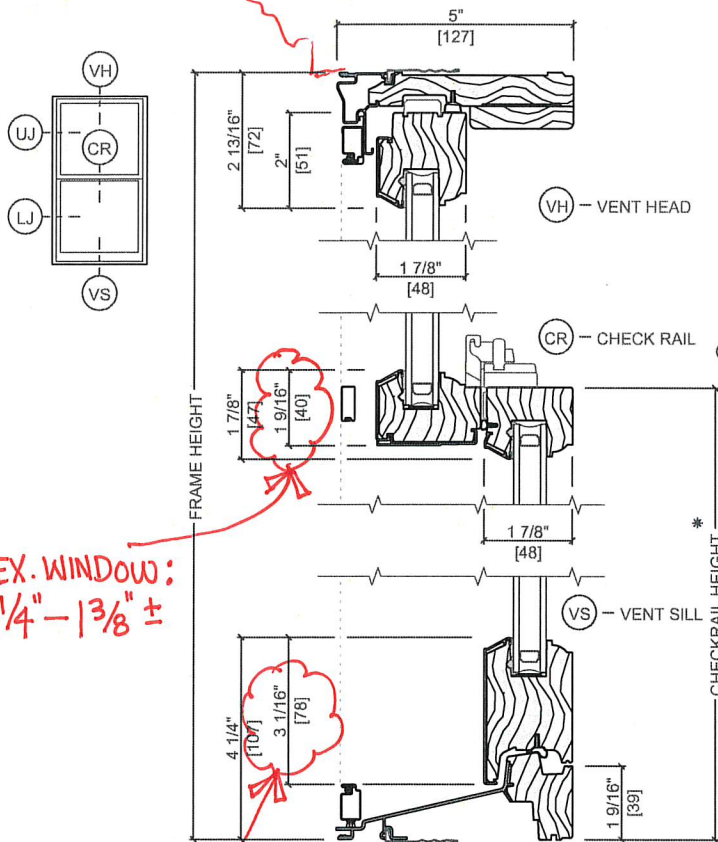
Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



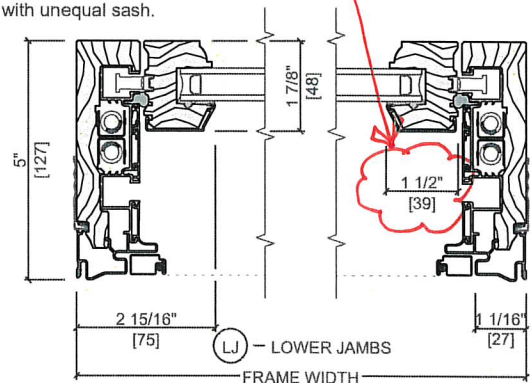
Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile

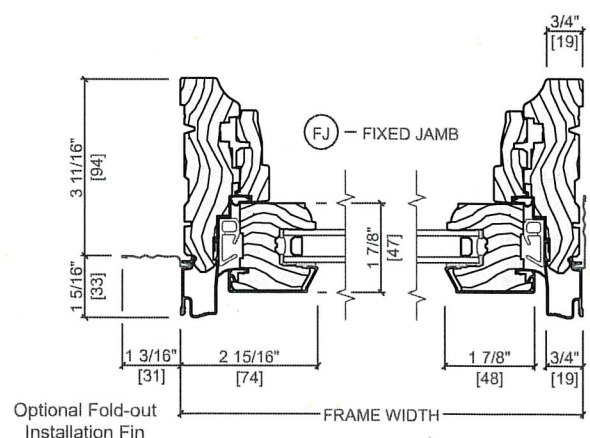
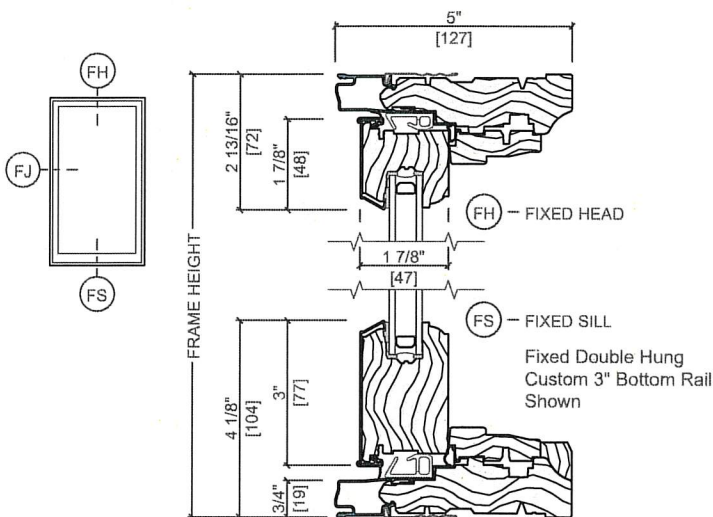
EX. WINDOW: $1\frac{1}{4}" - 1\frac{3}{8}" \pm$



* Dimension required for ordering units with unequal sash.



EX. WINDOW: $2\frac{3}{4}" - 2\frac{7}{8}" \pm$



Scale 3" = 1' 0"

All dimensions are approximate.

Colors

Wood Types

Choose the wood species that best complements your project's interior.



Prefinished Pine Interior Colors

Custom interior finishes, unfinished or primed and ready-to-paint are also available.



Extruded Aluminum-Clad Exterior Colors

Our low-maintenance EnduraClad® exterior finish resists fading. Take durability one step further with EnduraClad Plus which also resists chalking and corrosion.⁹



Added Peace of Mind

Integrated Security Sensors

Integrated wireless security sensors maintain aesthetics, streamline security installation and ensure no warranty loss is caused by post-installation drilling. Sensors can be monitored via the free Pella® Insynctive® App and are compatible with major security panel systems.¹⁰ For more information, go to connectpella.com.



The Best Limited Lifetime Warranty in the Industry

We know your reputation matters and you stake your reputation on quality, dependable products. That's why we have the best limited lifetime warranty in the industry for wood windows and patio doors.²

¹ Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.

² Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty or contact Pella Customer Service.

³ Ratings are contingent on product configurations.

⁴ Color-matched to your product's interior and exterior color.

⁵ Available Fall 2021.

⁶ Flush multi-slide handle is a Pella exclusive design.

⁷ Flush multi-slide handle is not available in Champagne.

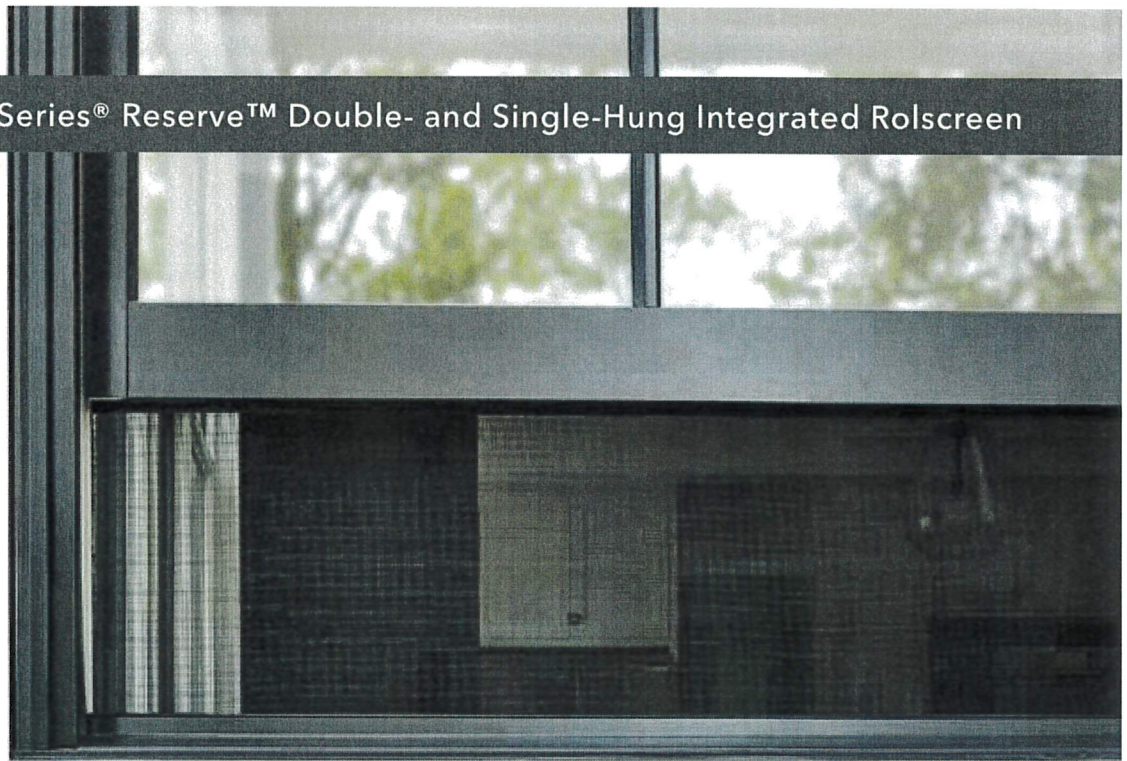
⁸ Availability may be limited. Contact your local Pella rep for details.

⁹ EnduraClad Plus protective finish is not available with all colors. See your local Pella sales representative for availability.

¹⁰ Requires the Insynctive App on a smart device, an Insynctive Bridge and a wireless home router with internet connection.



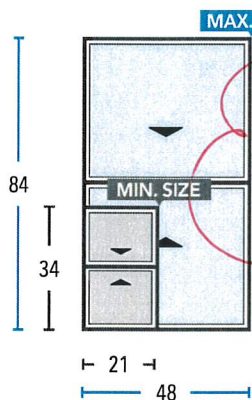
Architect Series® Reserve™ Double- and Single-Hung Integrated Rolscreen



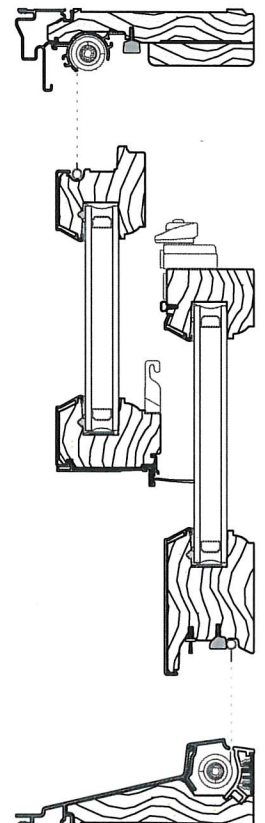
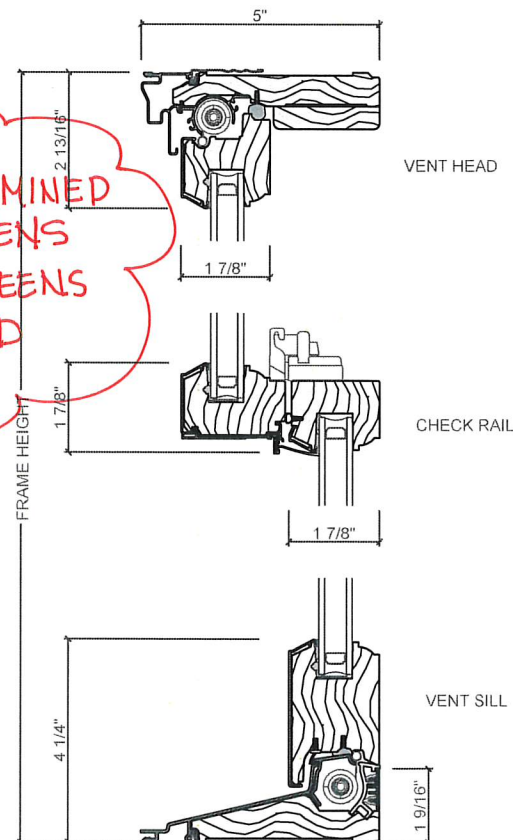
An Industry First

The Pella® Integrated Rolscreen® is a patent-pending retractable screen that moves seamlessly with the sash of a double- or single-hung window. Concealed within the window frame, the screen automatically appears when the window is opened so it's there when it's needed and hidden when it's not. Details matter, and a hidden screen provides a more polished look, allows more natural light into a space, and keeps a project's design on the cutting edge. It's beauty without compromise.

Integrated Rolscreen Size Availability



Available with equal and unequal venting splits.



To view this innovation in action
using augmented reality:

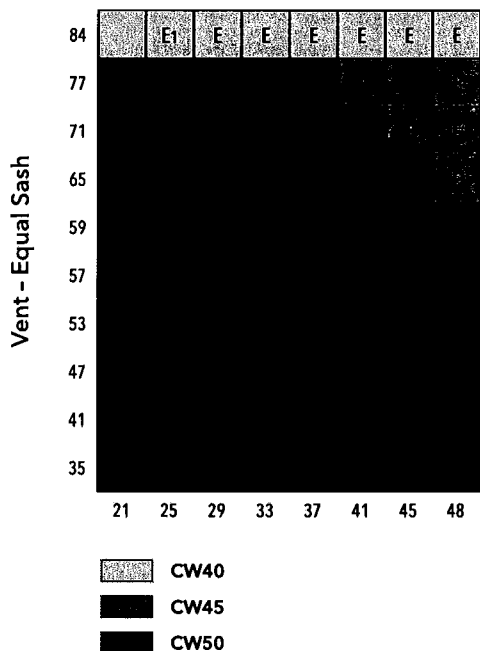
- 1 | Download the Pella AR app.
- 2 | Select "AR Camera" and tap on the Product Launch button.
- 3 | When the camera view opens, aim at the Pella AR logo.



Highlights

- Available on Architect Series Reserve double- and single-hung windows
- Available in both the upper sash and lower sash, or in the lower sash only
- Features high-strength magnets to hold the screen in place
- InView™ screen cloth, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201
- Automatically retracts when the sash is tilted for easy cleaning
- Screen is stored safely inside the window frame when closed, eliminating the need for seasonal screen removal and storage
- Tested in extreme weather conditions to deliver performance
- Backed by a 10-year transferrable limited warranty*

Performance and Technical Information



- Not available in monumental hung windows
- Not available with wood exterior, non-Pine wood species, or HurricaneShield® Impact Resistant glazing
- Available in the most common product configurations, but certain glazing and grille patterns may be unavailable
- Minimal changes to air, water, structural, thermal, and sound performance values
- Not eligible for variances

Check all applicable local codes for emergency egress requirements.

E Meets min. clear opening 24" H x 20" W and 5.7 ft².

E1 Meets min. clear opening 24" H x 20" W and 5.0 ft².

*See your Pella representative or pella.com/warranty for details, including exceptions and limitations.

REJUVENATION



Halsey

Item #A2823

<http://www.rejuvenation.com/s/1bnpq>

Specification	Detail
Item #	A2823
Finish	Oil-Rubbed Bronze
Socket Type	E26
Shade	B5411
Shade SKU	B5411
Maximum fixture wattage per socket	60 W
UL Listing	UL Listed Damp
Canopy	18-3/8"
Overall fixture width	18-3/8"
Length	10-5/8"
Shade height	7"
Number of Sockets	3