

93 PLEASANT STREET



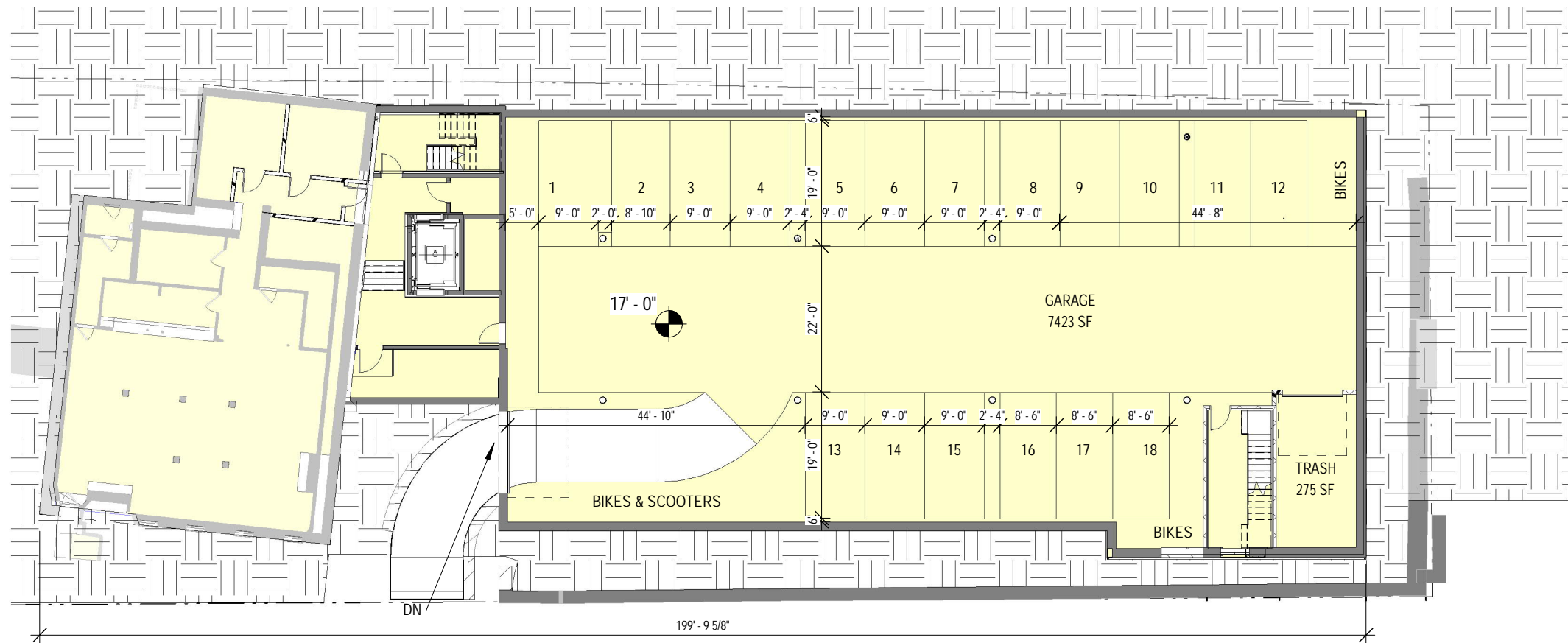
HDC DRAWING SHEET LIST	
P1.0	COVER SHEET
L.1	LANDSCAPE PLAN
P1.1	BASEMENT FLOOR PLAN
P1.2	PROPOSED FIRST FLOOR PLAN
P1.3	PROPOSED ROOF PLAN
P1.4	CONTEXT VIEW FROM PLEASANT
P1.5	CONTEXT VIEW FROM COURT ST - N
P1.6	CONTEXT VIEW FROM COURT ST - S
P1.7	CONTEXT VIEW FROM STATE ST
P1.8	PERSPECTIVE VIEW - SW
P1.9	PERSPECTIVE VIEW - SE
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P1.18	PARTIAL EXTERIOR ELEVATIONS
P1.19	MATERIALS

SUMMARY

NEW CONSTRUCTION
MULTI-FAMILY HOUSING APARTMENTS, NEW STRUCTURE LOCATED AT
PARKING LOT BEHIND TREADWELL-JENNESS HOUSE.
2 STORIES + 3RD SHORT STORY; 1 LEVEL UNDERGROUND PARKING.

P1.0

COVER SHEET
93 PLEASANT STREET
HDC - OCTOBER 28, 2021

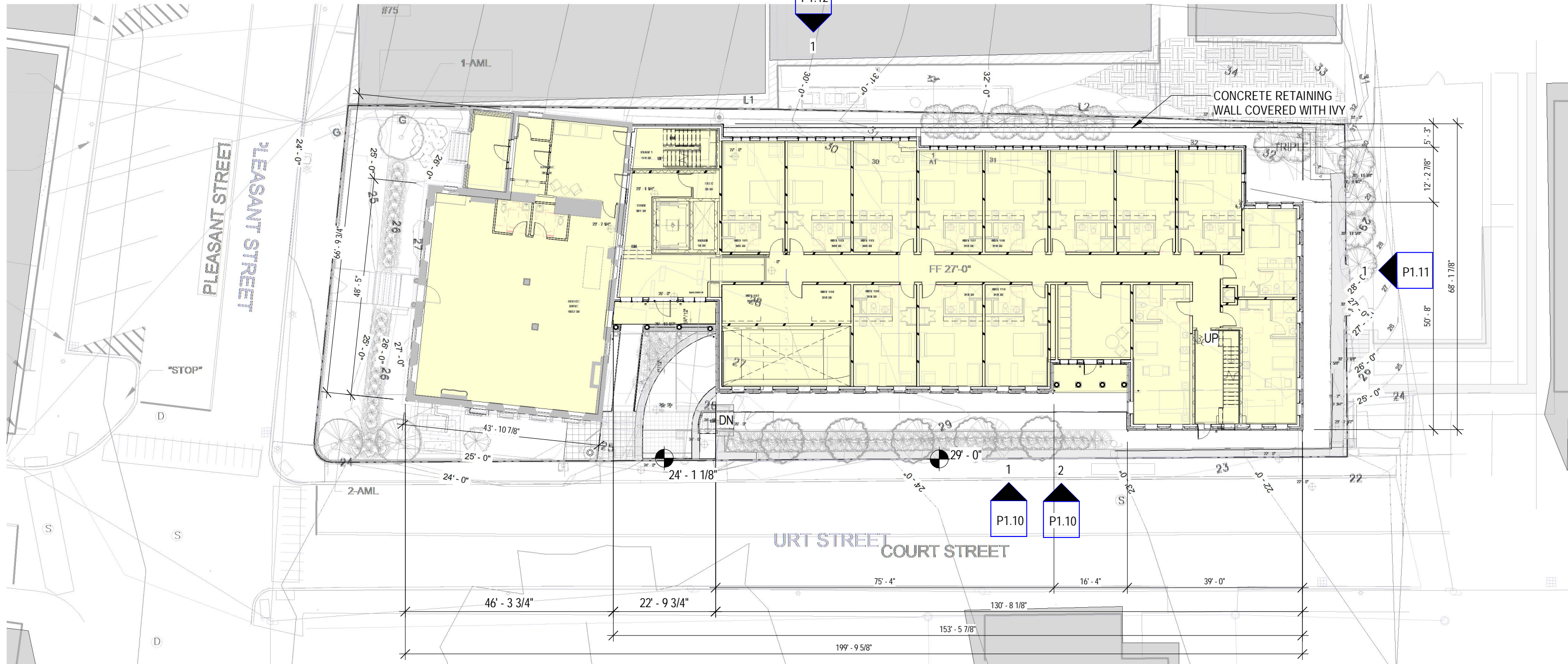


1 BASEMENT FLOOR PLAN
3/64" = 1'-0"

P1.1

BASEMENT FLOOR PLAN

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HDC October 28, 2021

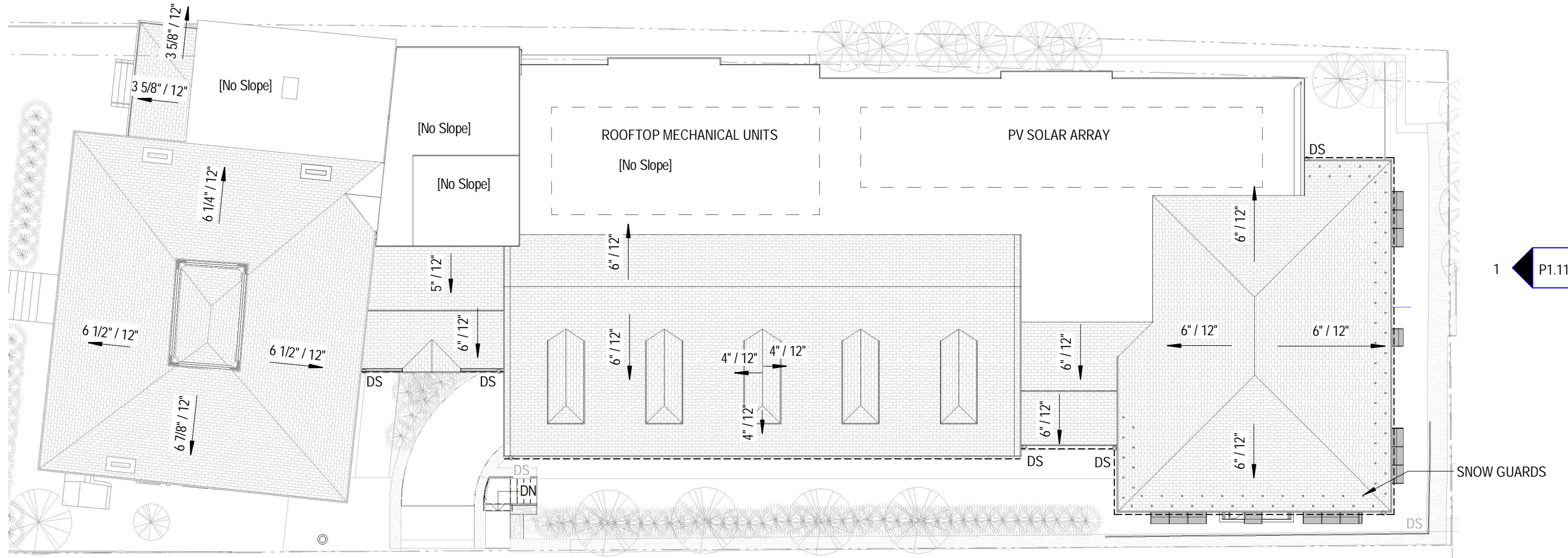


1 FIRST FLOOR PLAN
3/64" = 1'-0"

P1.2 FIRST FLOOR PLAN
93 PLEASANT STREET
HDC October 28, 2021

P1.12

1



1

P1.11

1

ROOF PLAN

1/16" = 1'-0"

ROOF LEGEND

- DS DOWNSPOUT
- GUTTER

1

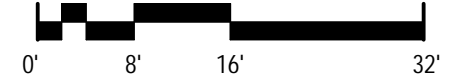
P1.10

P1.3

ROOF PLAN

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HDC October 28, 2021

GRAPHIC SCALE: 1/16" = 1'-0"



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INTERIORS
PLANNERS



P1.4

CONTEXT VIEW FROM PLEASANT

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P1.5

CONTEXT VIEW FROM COURT ST - N

93 PLEASANT STREET
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P1.6

CONTEXT VIEW FROM COURT ST - S
93 PLEASANT STREET
HDC - OCTOBER 28, 2021



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P1.7

CONTEXT VIEW FROM STATE ST

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P1.8

PERSPECTIVE VIEW - SW

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HDC - OCTOBER 28, 2021



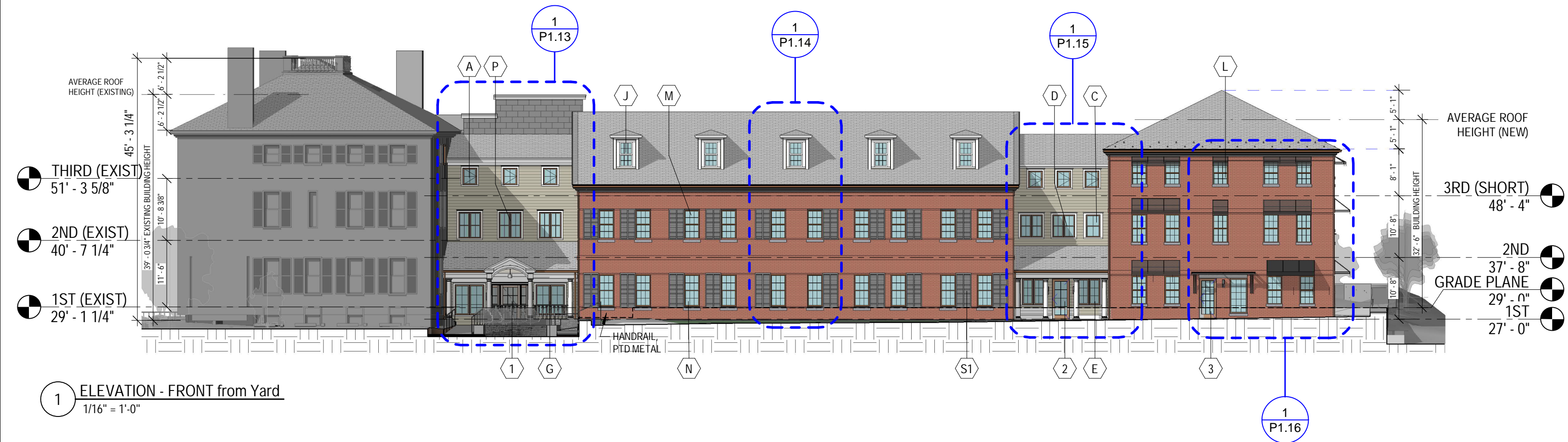
P1.9

PERSPECTIVE VIEW - SE

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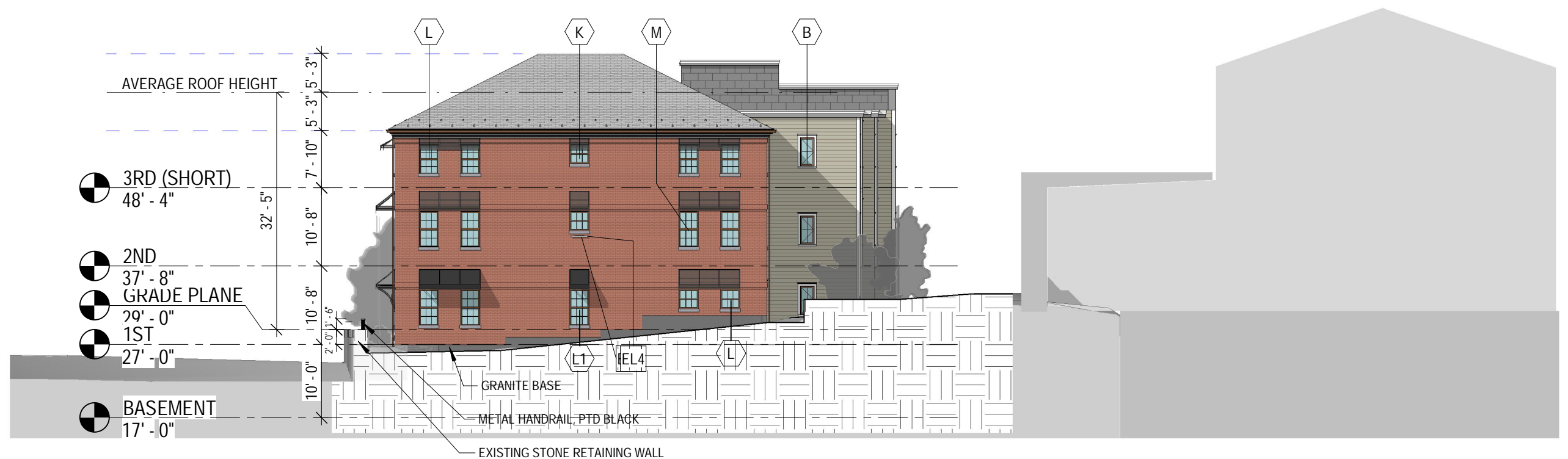


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PLANNERS



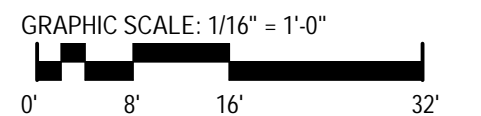
P1.10

ELEVATION - FRONT
 93 PLEASANT STREET
 HDC October 28, 2021



1 HDC ELEVATION - SIDE
1/16" = 1'-0"

EXTERIOR LIGHTING LEGEND	
EL1	EXTERIOR LIGHTING - WALL SCONCE
EL2	EXTERIOR LIGHTING - HANGING LIGHT
EL3	EXTERIOR LIGHTING - SOFFIT COVE LIGHT
EL4	EXTERIOR LIGHTING - EMERGENCY LIGHT



P1.11

ELEVATION - SIDE
93 PLEASANT STREET
HDC October 28, 2021



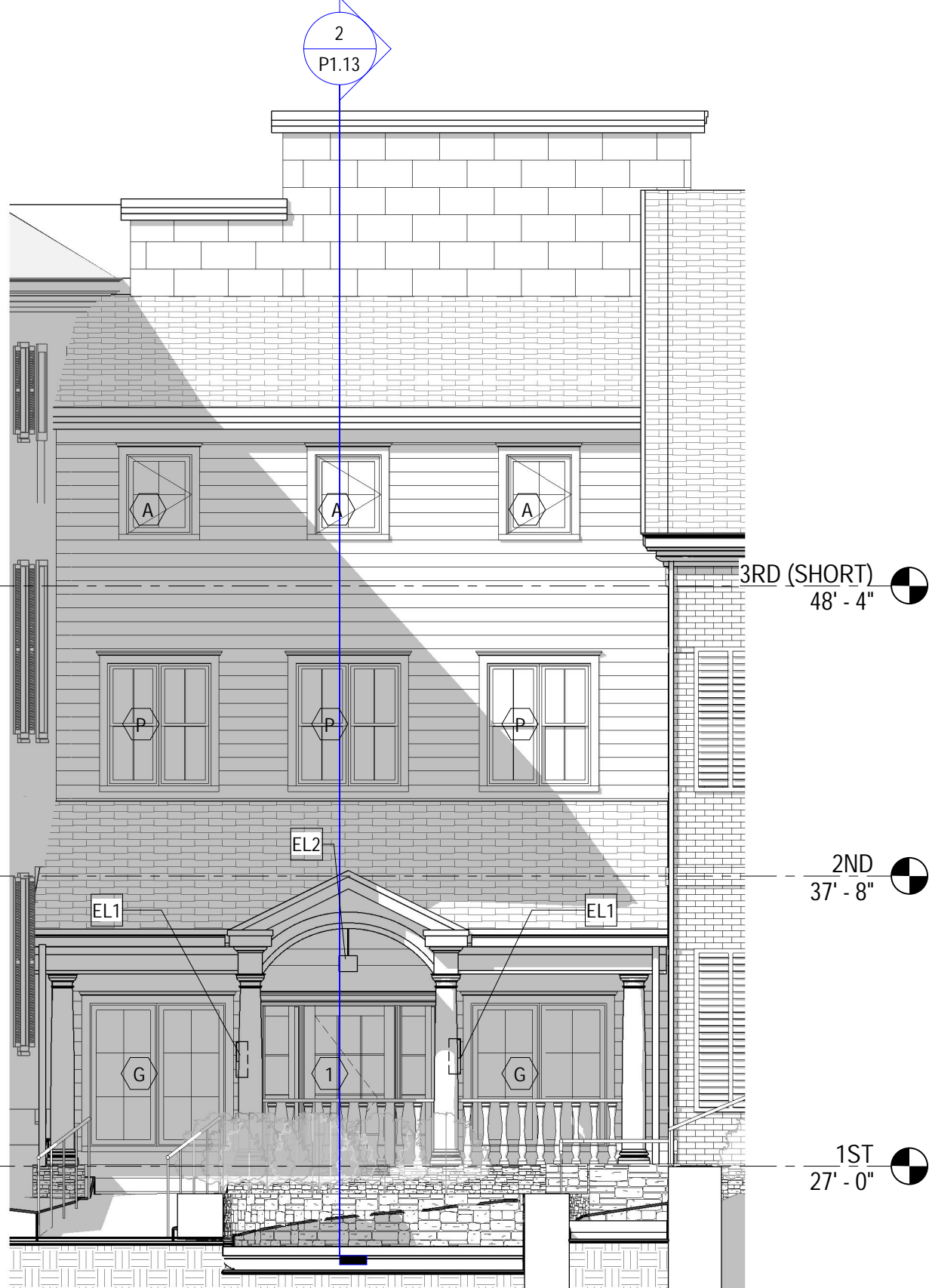
1 HDC ELEVATION - REAR
1/16" = 1'-0"

EXTERIOR LIGHTING LEGEND	
EL1	EXTERIOR LIGHTING - WALL SCONCE
EL2	EXTERIOR LIGHTING - HANGING LIGHT
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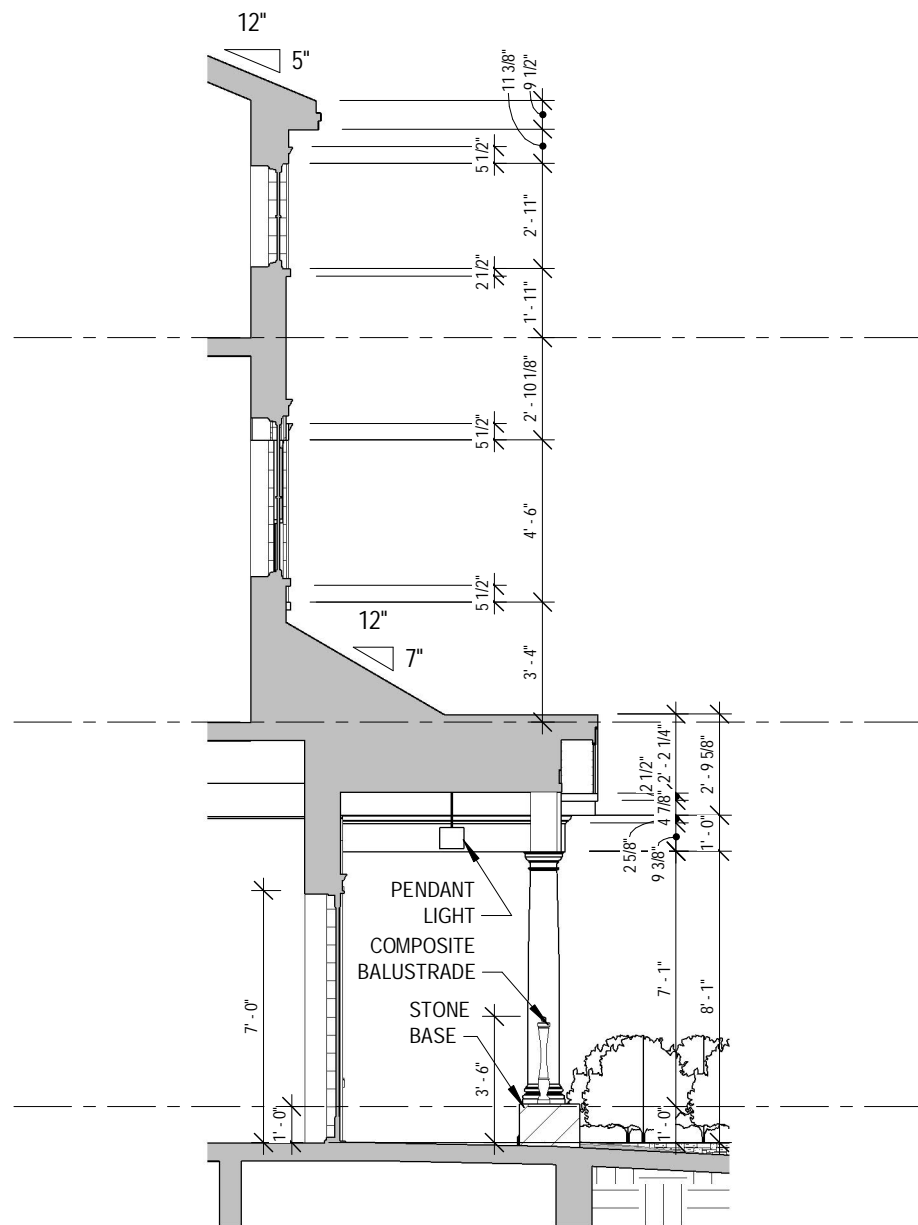
P1.12

ELEVATION - REAR

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HDC October 28, 2021



1 HDC ELEVATION - FRONT - WEST PORCH
3/16" = 1'-0"



2 HDC SECTION - THROUGH WEST PORCH
3/16" = 1'-0"



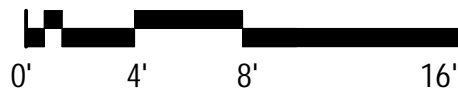
ELEVATION LEGEND

	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
	COMPOSITE RAINSCREEN BOARD
	ZINC PANELING

EXTERIOR LIGHTING LEGEND

	EXTERIOR LIGHTING - WALL SCONCE
	EXTERIOR LIGHTING - HANGING LIGHT
	EXTERIOR LIGHTING - SOFFIT COVE LIGHT
	EXTERIOR LIGHTING - EMERGENCY LIGHT

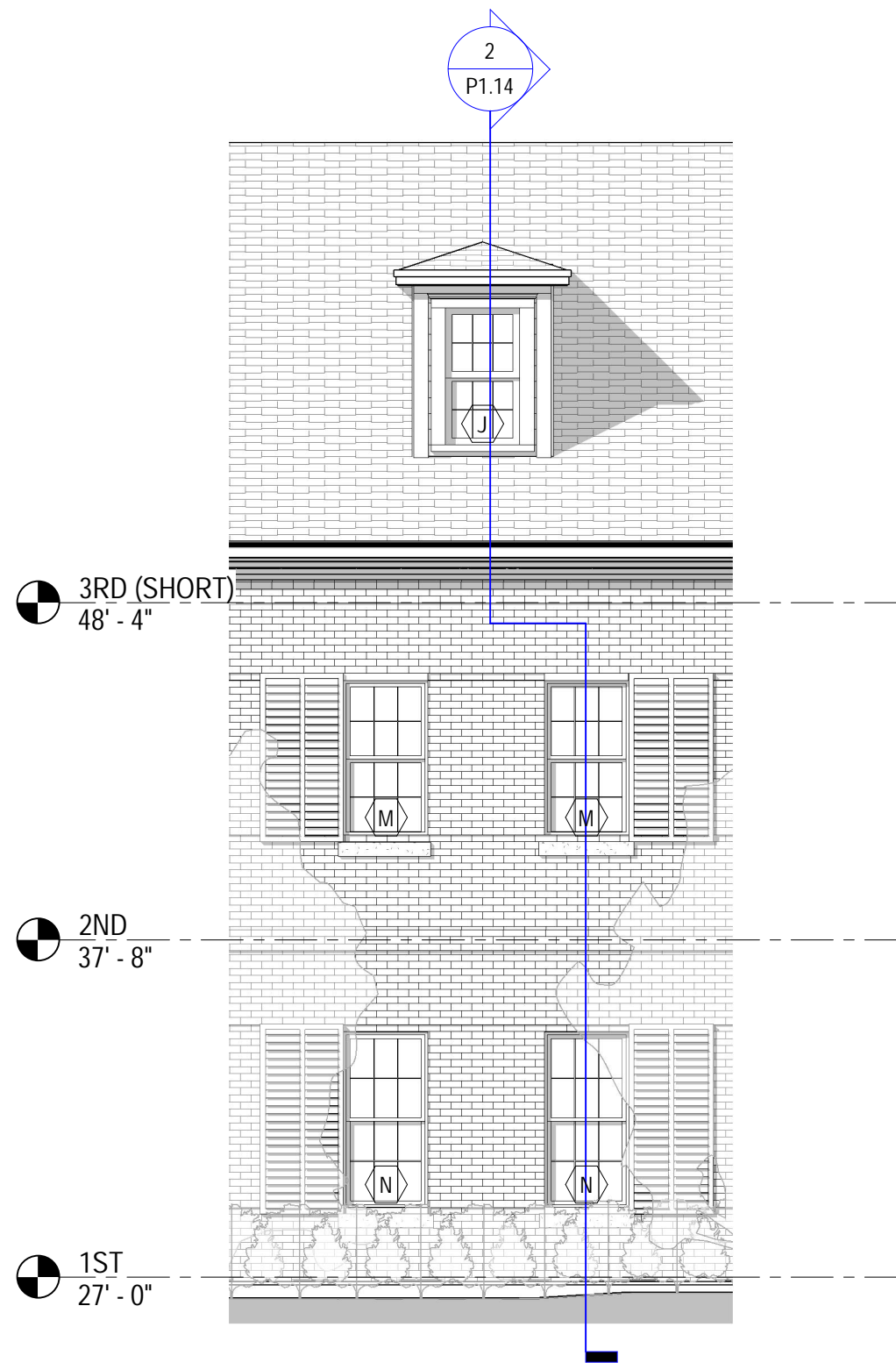
GRAPHIC SCALE: 3/16" = 1'-0"



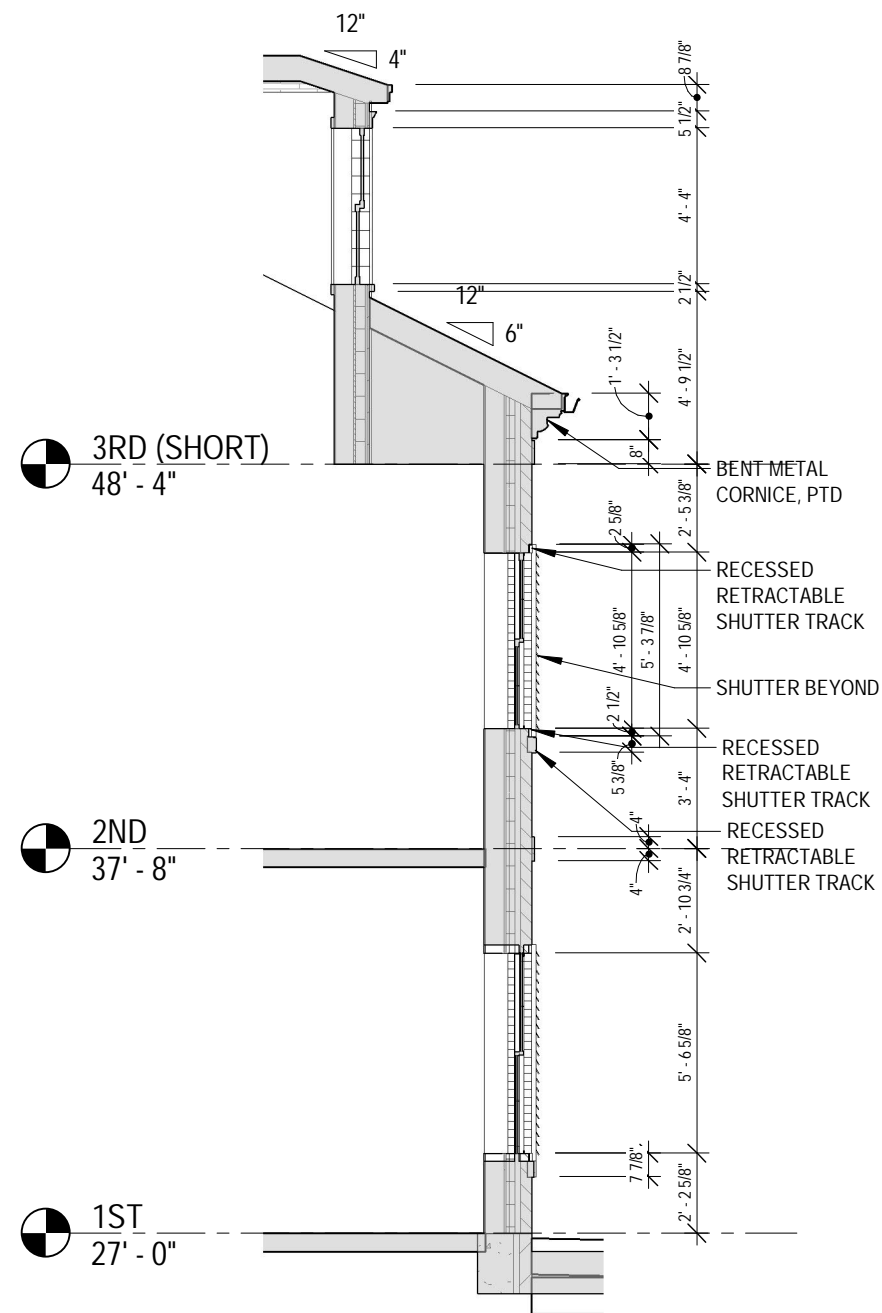
P1.13

PARTIAL EXTERIOR ELEVATIONS

93 PLEASANT STREET
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1 HDC ELEVATION - FRONT - NEW DORMER
3/16" = 1'-0"

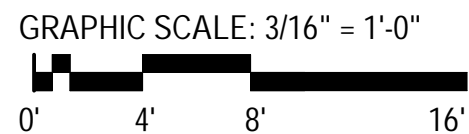


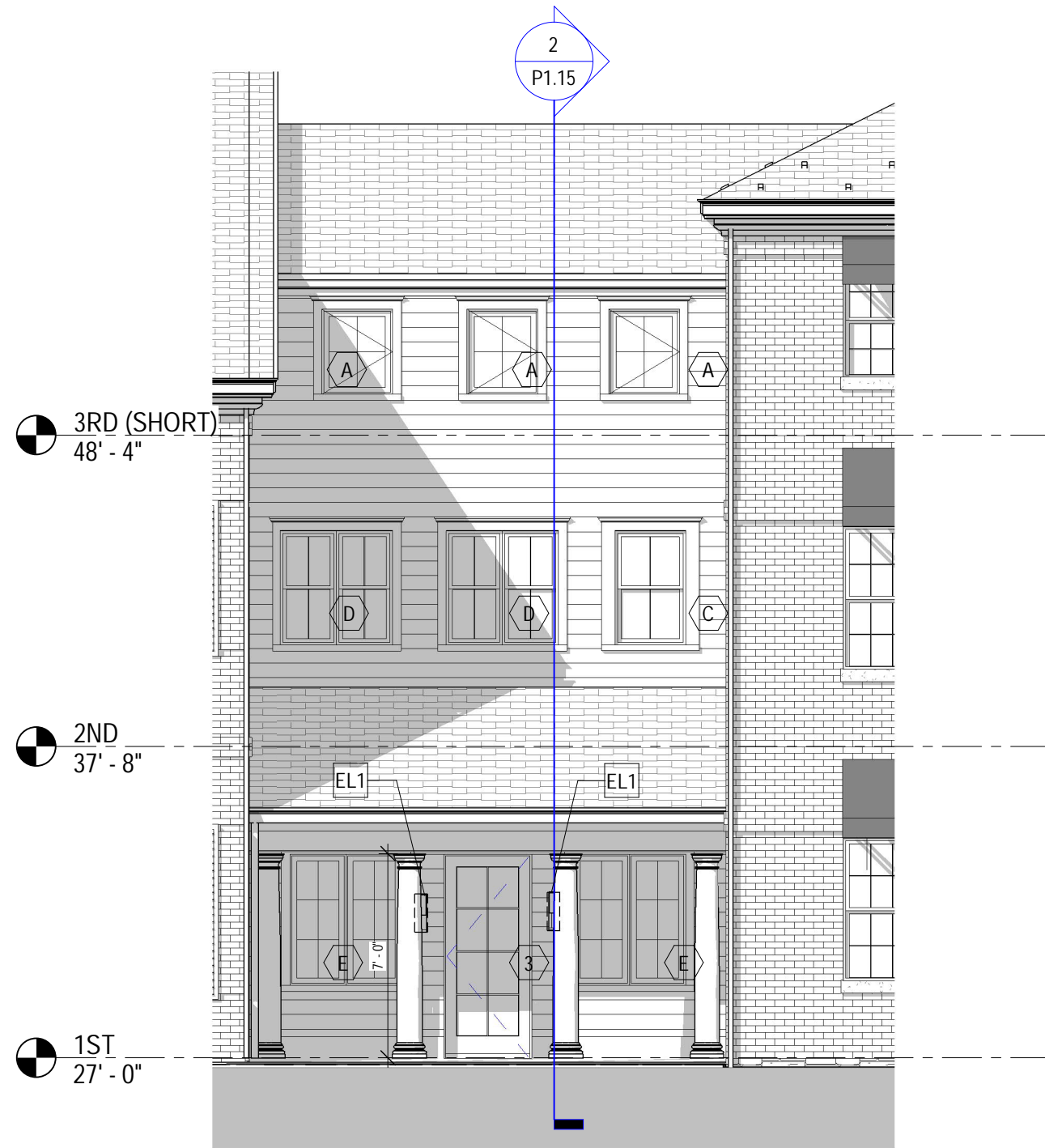
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3/16" = 1'-0"



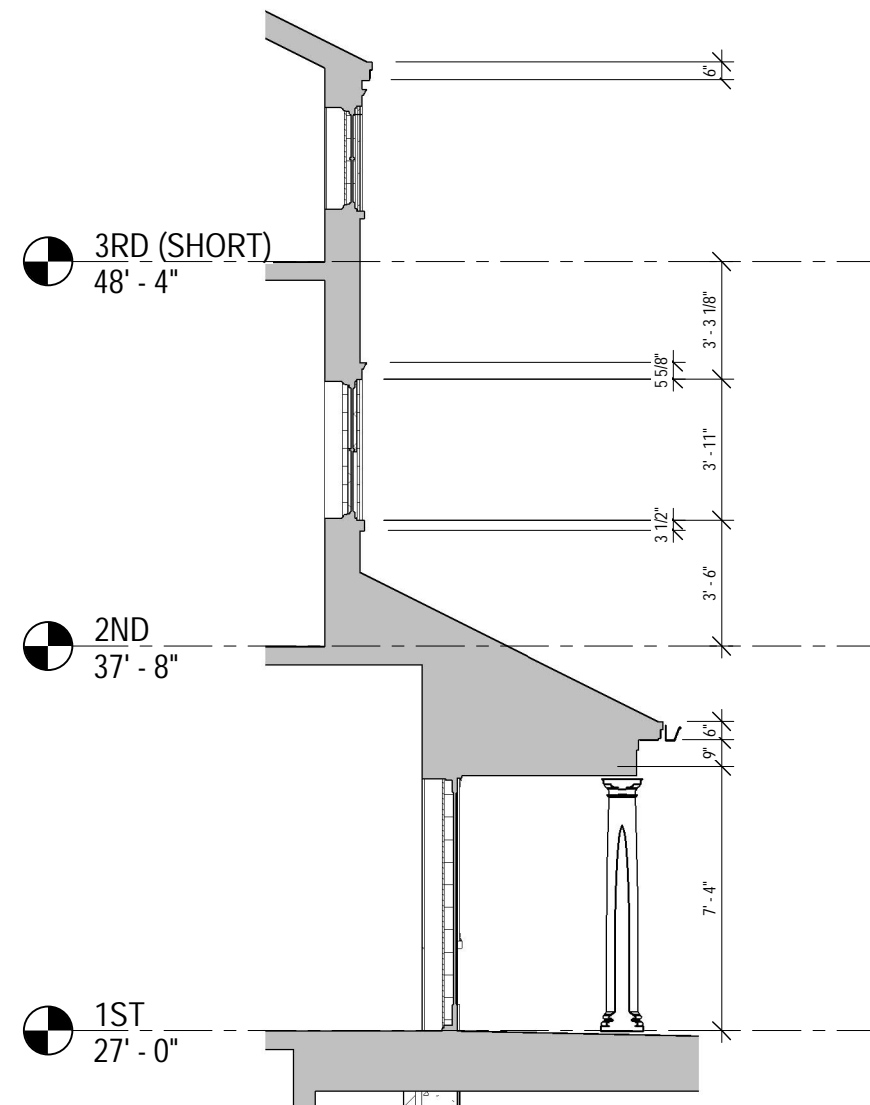
ELEVATION LEGEND	
	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
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	ZINC PANELING

EXTERIOR LIGHTING LEGEND	
	EL1 EXTERIOR LIGHTING - WALL SCONCE
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	EL4 EXTERIOR LIGHTING - EMERGENCY LIGHT





1 HDC ELEVATION - FRONT - NEW SIDE ENTRY
3/16" = 1'-0"

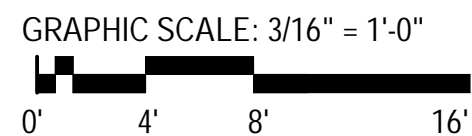


2 HDC SECTION - THROUGH SIDE ENTRY
3/16" = 1'-0"



ELEVATION LEGEND	
	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
	COMPOSITE RAINSCREEN BOARD
	ZINC PANELING

EXTERIOR LIGHTING LEGEND	
	EXTERIOR LIGHTING - WALL SCONCE
	EXTERIOR LIGHTING - HANGING LIGHT
	EXTERIOR LIGHTING - SOFFIT COVE LIGHT
	EXTERIOR LIGHTING - EMERGENCY LIGHT



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PARTIAL EXTERIOR ELEVATIONS

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3RD (SHORT)
48' - 4"

2ND
37' - 8"

1ST
27' - 0"

2
P1.16

3
P1.16

EL3

2

4

COPPER
GUTTER
BENT METAL
CORNICE
METAL
AWNING

GRANITE SILL

CUSTOM METAL
CANOPY WITH
METAL BRACKETS

EXTERIOR LIGHTING LEGEND

- EL1 EXTERIOR LIGHTING - WALL SCONCE
- EL2 EXTERIOR LIGHTING - HANGING LIGHT
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- EL4 EXTERIOR LIGHTING - EMERGENCY LIGHT

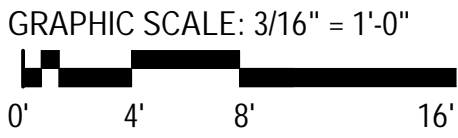
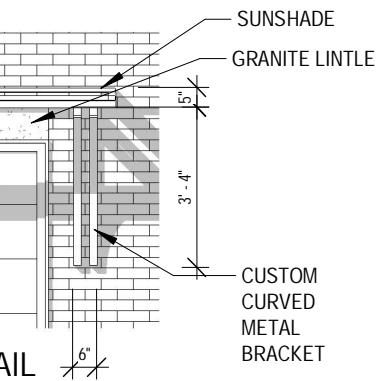
ELEVATION LEGEND

- SYNTHETIC SLATE ROOF SHINGLES
- BRICK
- COMPOSITE RAINSCREEN BOARD
- ZINC PANELING

1 HDC ELEVATION - FRONT - NEW ACCESS DOOR & GARAGE DOOR
3/16" = 1'-0"

2 HDC SECTION - THROUGH GARAGE DOOR
3/16" = 1'-0"

3 BRACKET DETAIL
1/4" = 1'-0"



P1.16

PARTIAL EXTERIOR ELEVATIONS

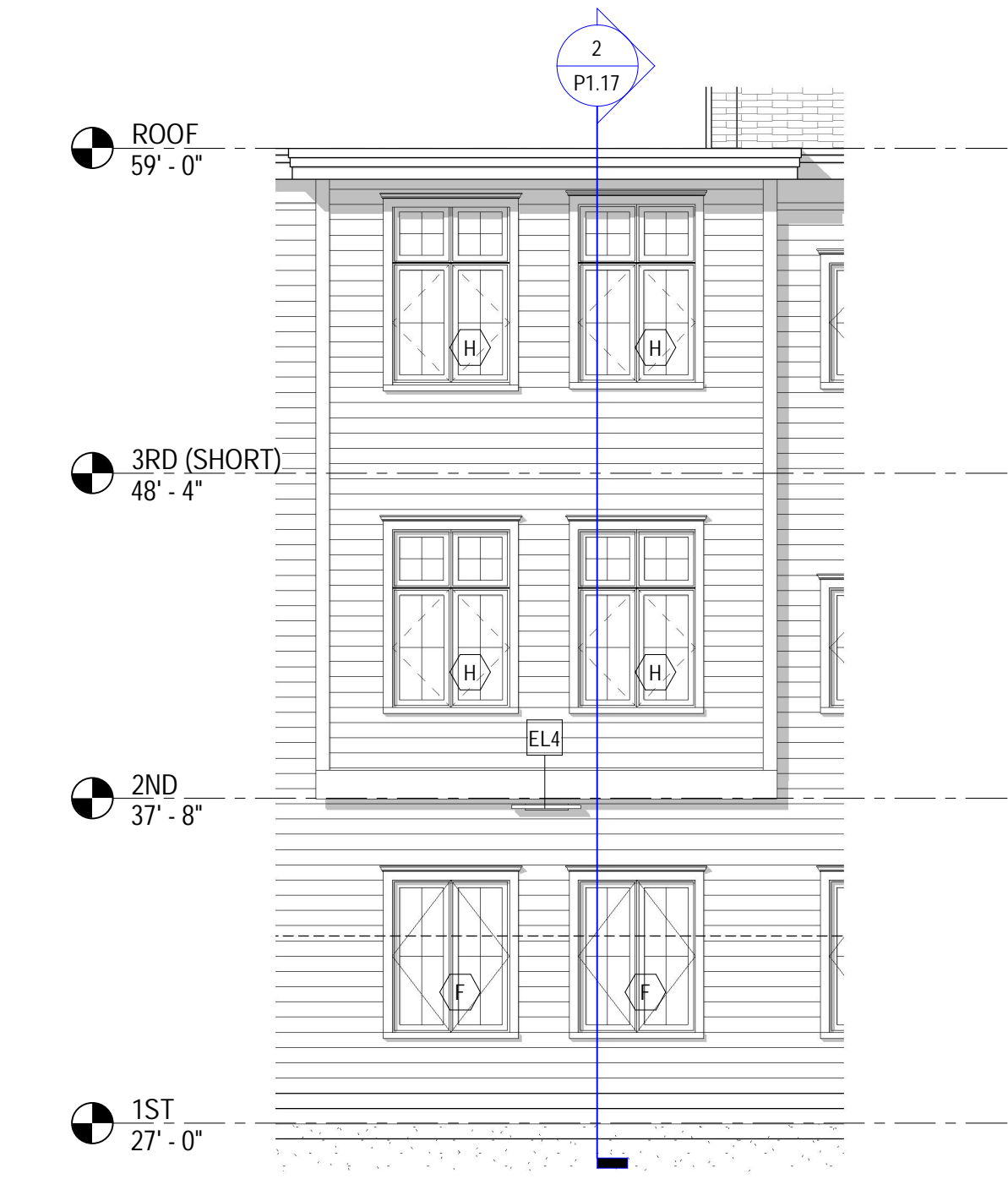
93 PLEASANT STREET
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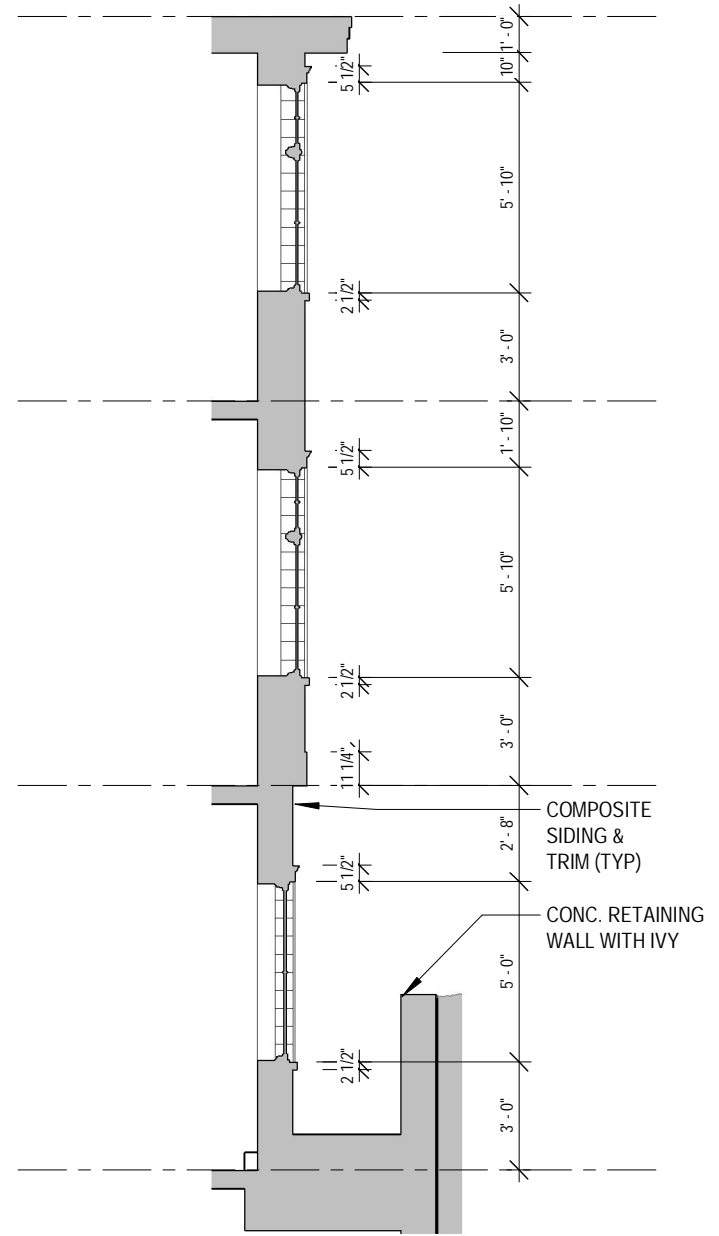


ELEVATION LEGEND	
	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
	COMPOSITE RAINSCREEN BOARD
	ZINC PANELING

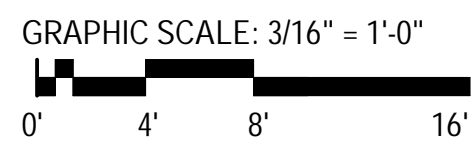
EXTERIOR LIGHTING LEGEND	
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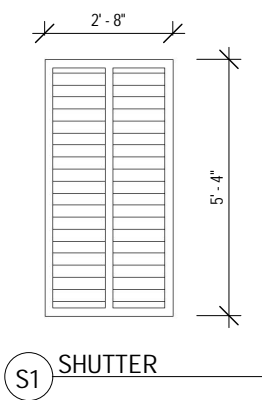
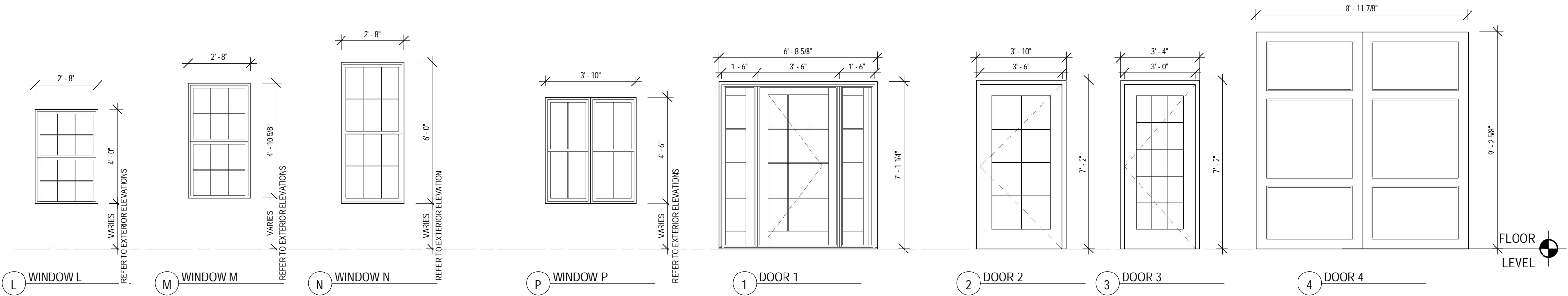
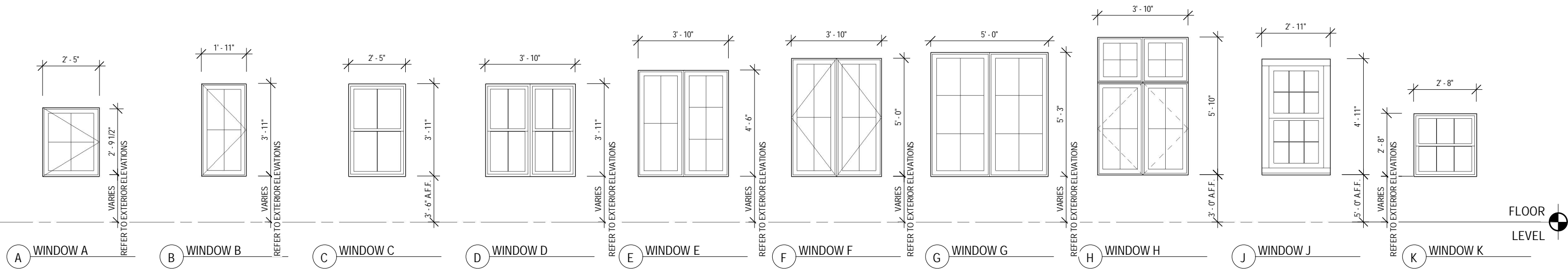


1 HDC ELEVATION - REAR - BUMPOUT
3/16" = 1'-0"



2 HDC SECTION - THROUGH REAR BUMPOUT
3/16" = 1'-0"





93 PLEASANT STREET



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P1.1

COVER SHEET

93 PLEASANT STREET

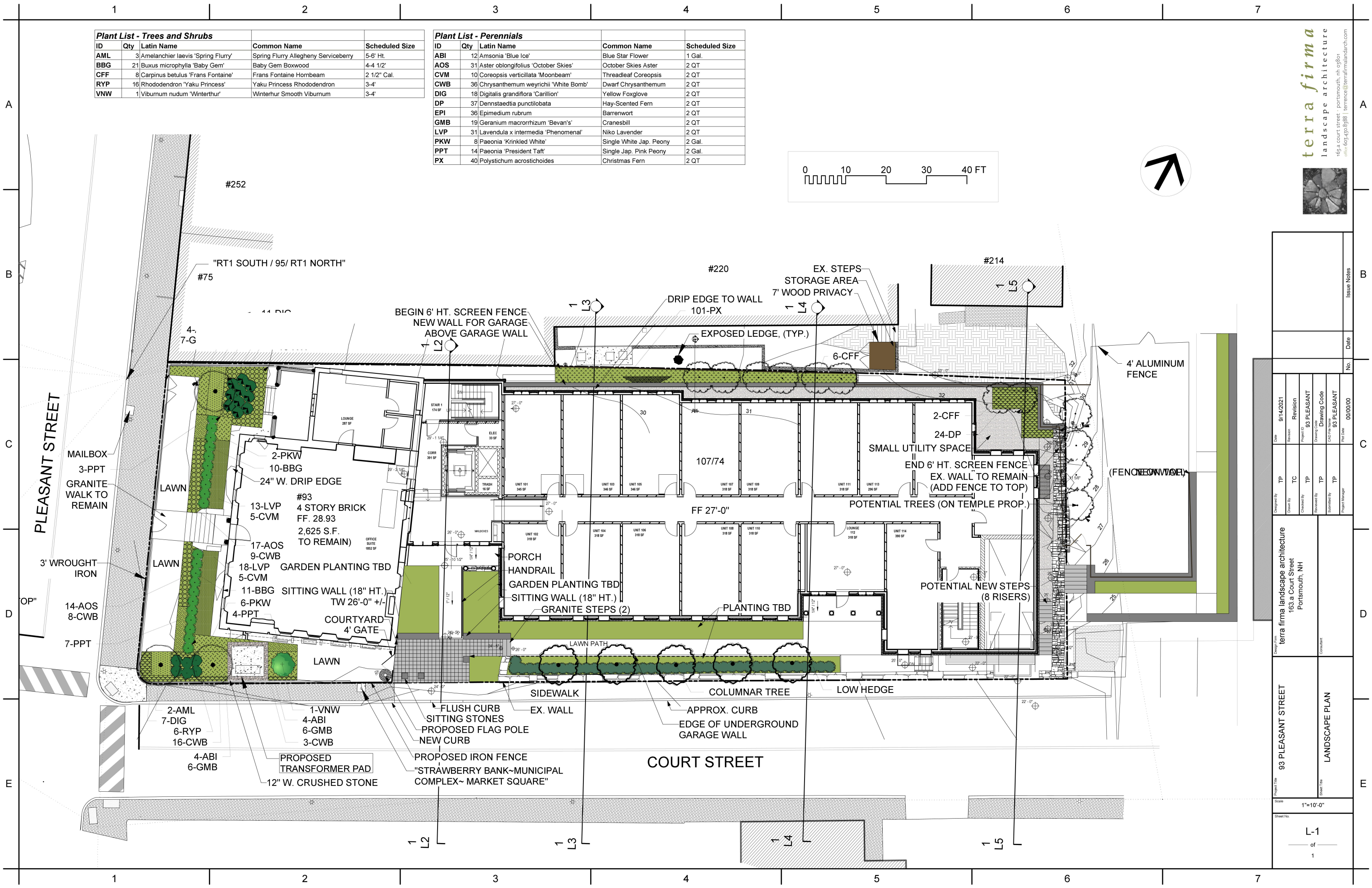
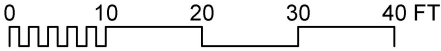
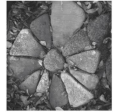
HDC PUBLIC HEARING - OCTOBER 6, 2021

Plant List - Trees and Shrubs				
ID	Qty	Latin Name	Common Name	Scheduled Size
AML	3	Amelanchier laevis 'Spring Flurry'	Spring Flurry Allegheny Serviceberry	5-6' Ht.
BBG	21	Buxus microphylla 'Baby Gem'	Baby Gem Boxwood	4-4 1/2'
CFF	8	Carpinus betulus 'Frans Fontaine'	Frans Fontaine Hornbeam	2 1/2' Cal.
RYP	16	Rhododendron 'Yaku Princess'	Yaku Princess Rhododendron	3-4'
VNW	1	Viburnum nudum 'Winterthur'	Winterthur Smooth Viburnum	3-4'

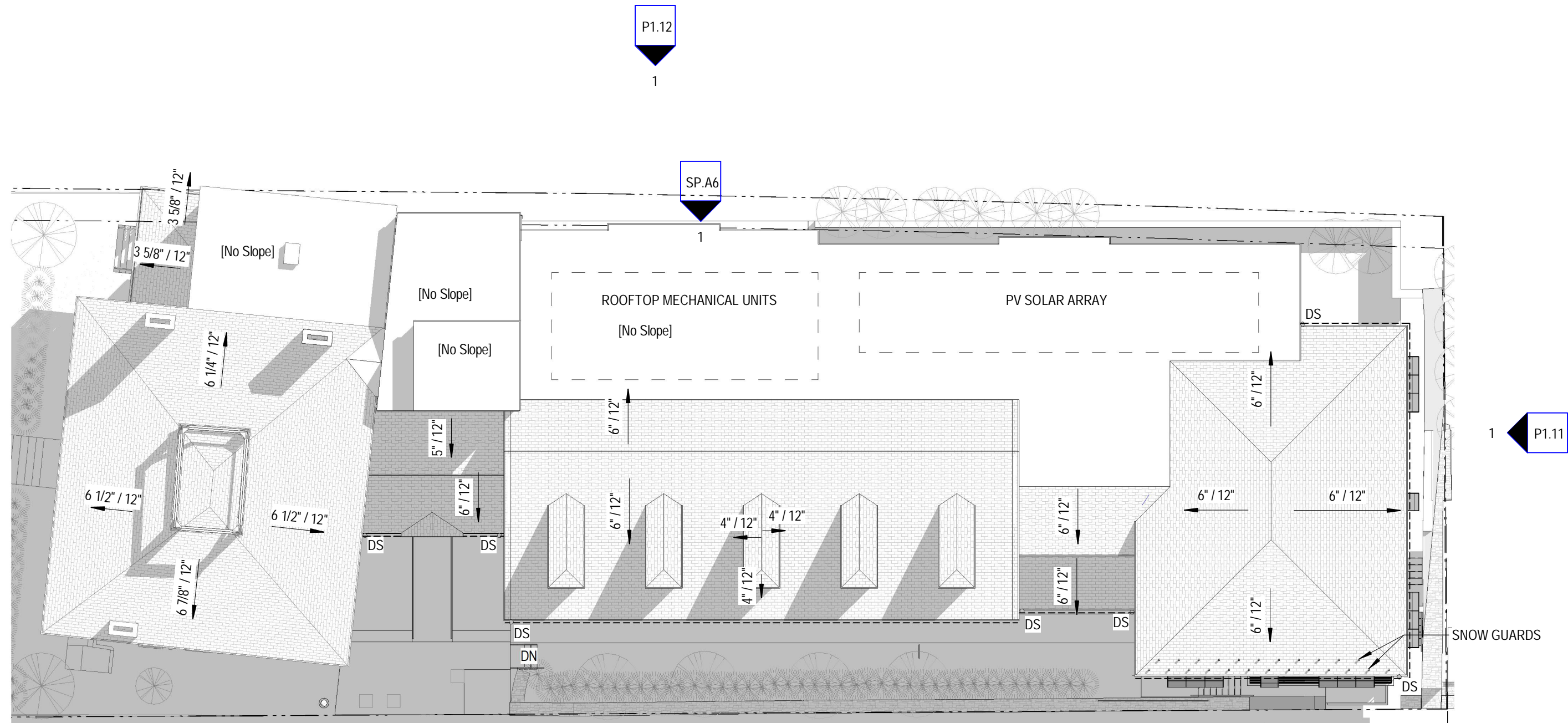
Plant List - Perennials				
ID	Qty	Latin Name	Common Name	Scheduled Size
ABI	12	Amsonia 'Blue Ice'	Blue Star Flower	1 Gal.
AOS	31	Aster oblongifolius 'October Skies'	October Skies Aster	2 QT
CVM	10	Coreopsis verticillata 'Moonbeam'	Threadleaf Coreopsis	2 QT
CWB	36	Chrysanthemum weyrichii 'White Bomb'	Dwarf Chrysanthemum	2 QT
DIG	18	Digitalis grandiflora 'Carillion'	Yellow Foxglove	2 QT
DP	37	Dennstaedtia punctilobata	Hay-Scented Fern	2 QT
EPI	36	Epimedium rubrum	Barrenwort	2 QT
GMB	19	Geranium macrorrhizum 'Bevan's'	Cranesbill	2 QT
LVP	31	Lavendula x intermedia 'Phenomenal'	Niko Lavender	2 QT
PKW	8	Paeonia 'Krinkled White'	Single White Jap. Peony	2 Gal.
PPT	14	Paeonia 'President Taft'	Single Jap. Pink Peony	2 Gal.
PX	40	Polystichum acrostichoides	Christmas Fern	2 QT

terra firma
landscape architecture

163 a court street · portsmouth, nh 03801
office: 603.430.8388 | terrence@terrafirmalandscape.com



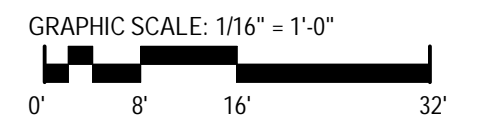
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93 PLEASANT STREET		163 a Court Street Portsmouth, NH		00/00/00	
Landscape Plan		L-1		1	
Scale		1"=10'-0"			
Sheet No.					
Design Firm		terra firma landscape architecture			
Project Title		93 PLEASANT STREET			
Project No.		93 PLEASANT			
Drawing Code		Drawing Code			
Revision		Revision			
Date		9/14/2021			
Designed By		TP			
Drawn By		TC			
Checked By		TP			
Reviewed By		TP			
Submitted By		TP			
Project Manager		TP			



1 HDC PROPOSED ROOF PLAN
1/16" = 1'-0"

ROOF LEGEND	
DS	DOWNSPOUT
----	GUTTER

1
P1.10



P1.3

PROPOSED ROOF PLAN

93 PLEASANT STREET
HDCph1 SEPTEMBER 17, 2021



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P1.4

CONTEXT VIEW FROM PLEASANT

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HDC PUBLIC HEARING - OCTOBER 6, 2021



P1.6

CONTEXT VIEW FROM COURT ST - S

93 PLEASANT STREET
HDC PUBLIC HEARING - OCTOBER 6, 2021



P1.8

PERSPECTIVE VIEW - SW
 93 PLEASANT STREET
 HDC PUBLIC HEARING - OCTOBER 6, 2021



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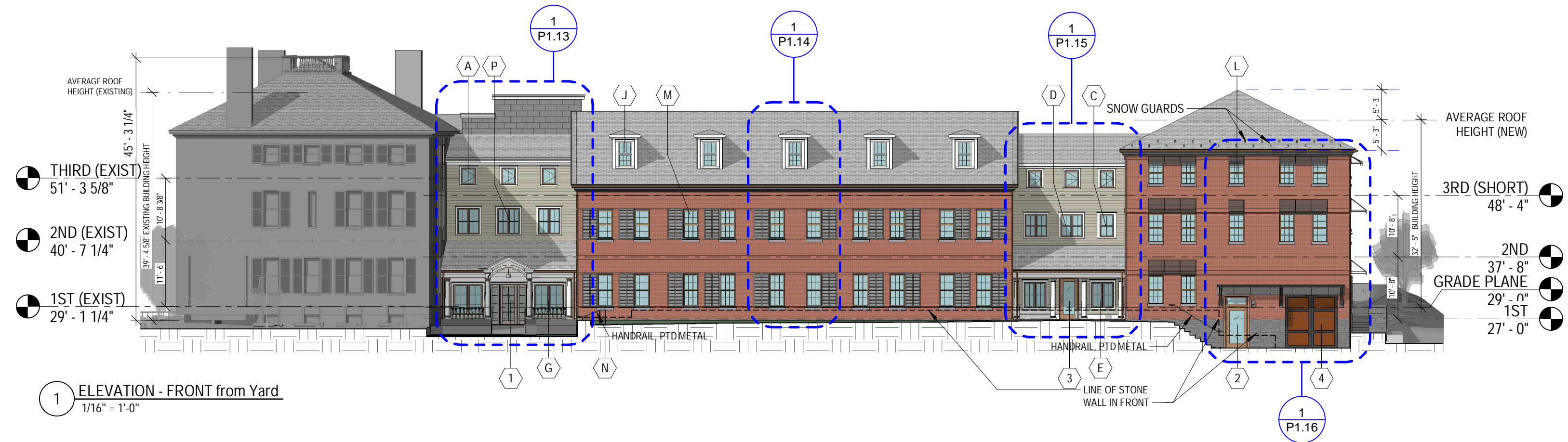
P1.9

PERSPECTIVE VIEW - SE

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HDC PUBLIC HEARING - OCTOBER 6, 2021

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P1.10

ELEVATION - FRONT

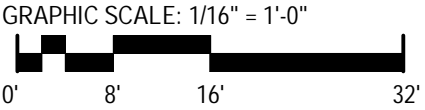
93 PLEASANT STREET

HDCph1 SEPTEMBER 17, 2021



1 HDC ELEVATION - SIDE
1/16" = 1'-0"

EXTERIOR LIGHTING LEGEND	
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P1.11

ELEVATION - SIDE
93 PLEASANT STREET
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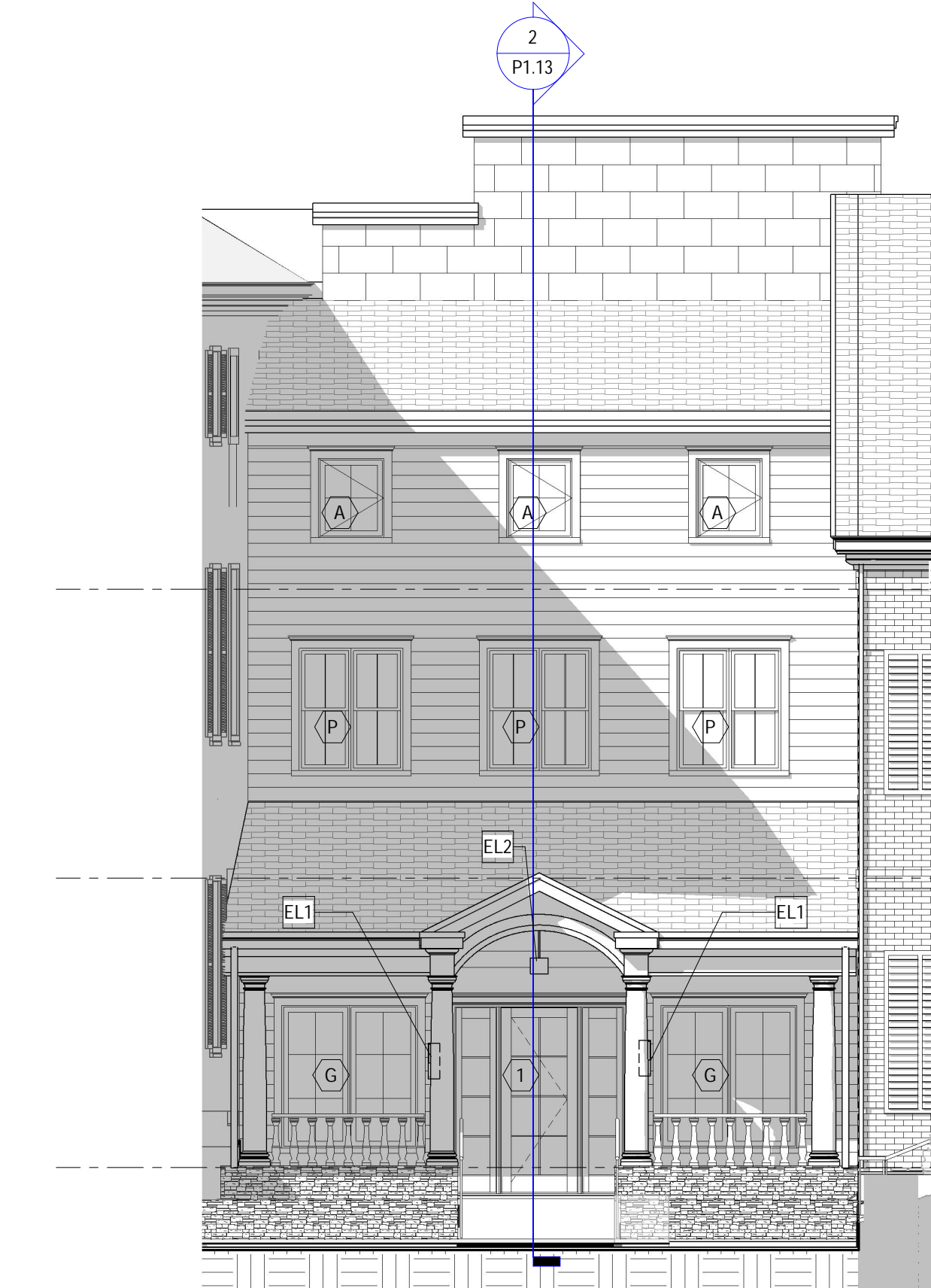
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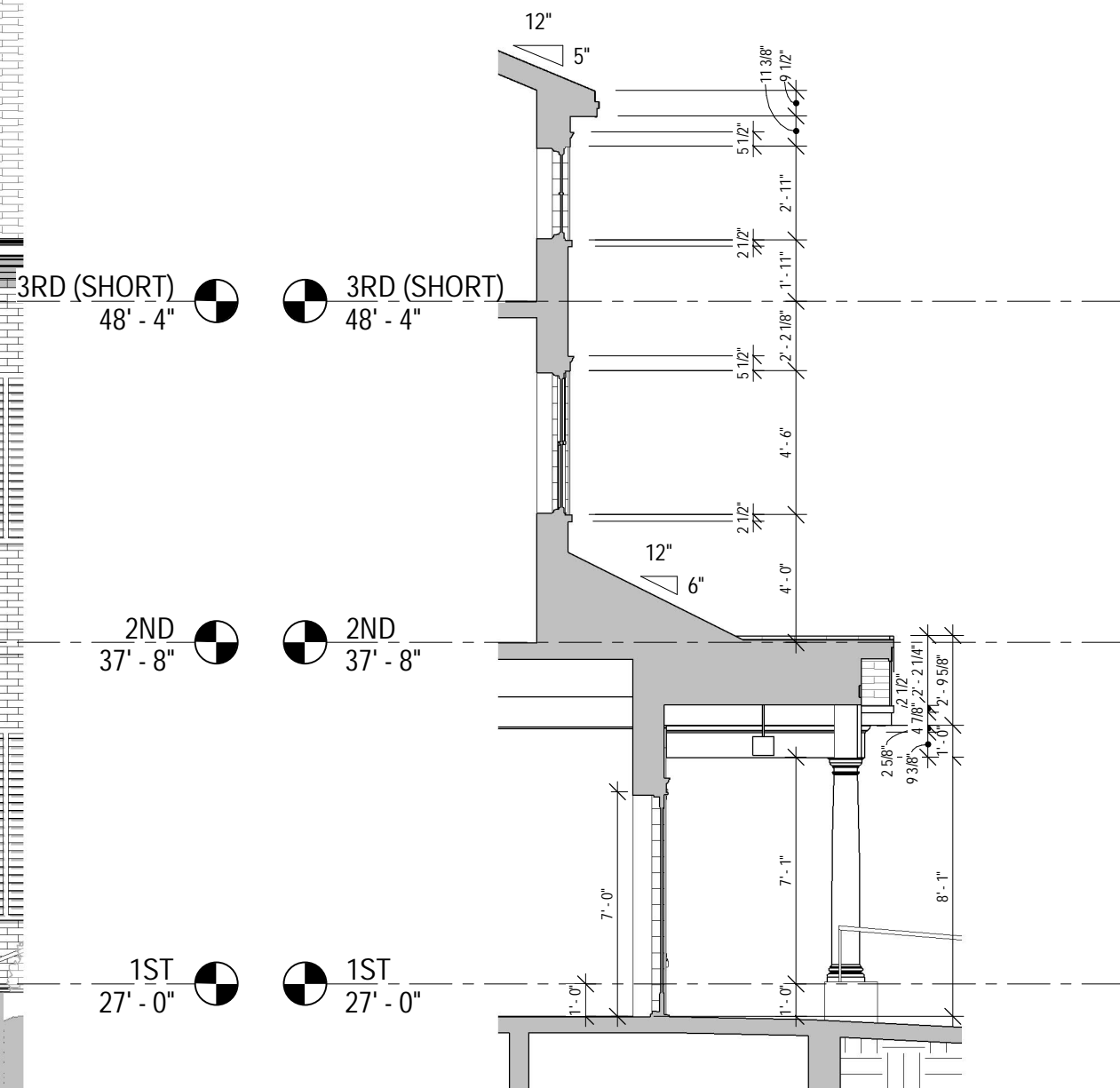
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ELEVATION - REAR

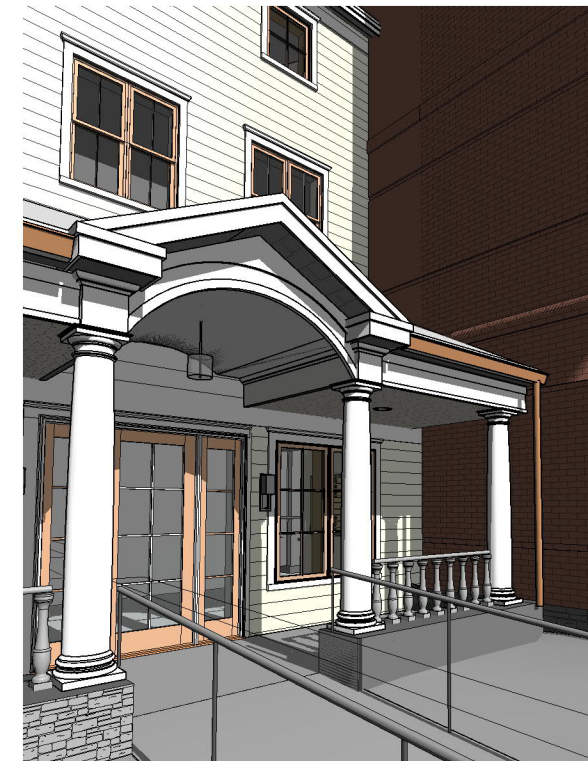
93 PLEASANT STREET
HDCph1 SEPTEMBER 17, 2021



1 HDC ELEVATION - FRONT - NEW MAIN ENTRY
3/16" = 1'-0"

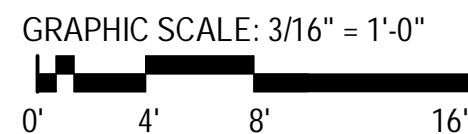


2 HDC SECTION - THROUGH NEW MAIN ENTRY
3/16" = 1'-0"



ELEVATION LEGEND	
	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
	COMPOSITE RAINSCREEN BOARD
	ZINC PANELING

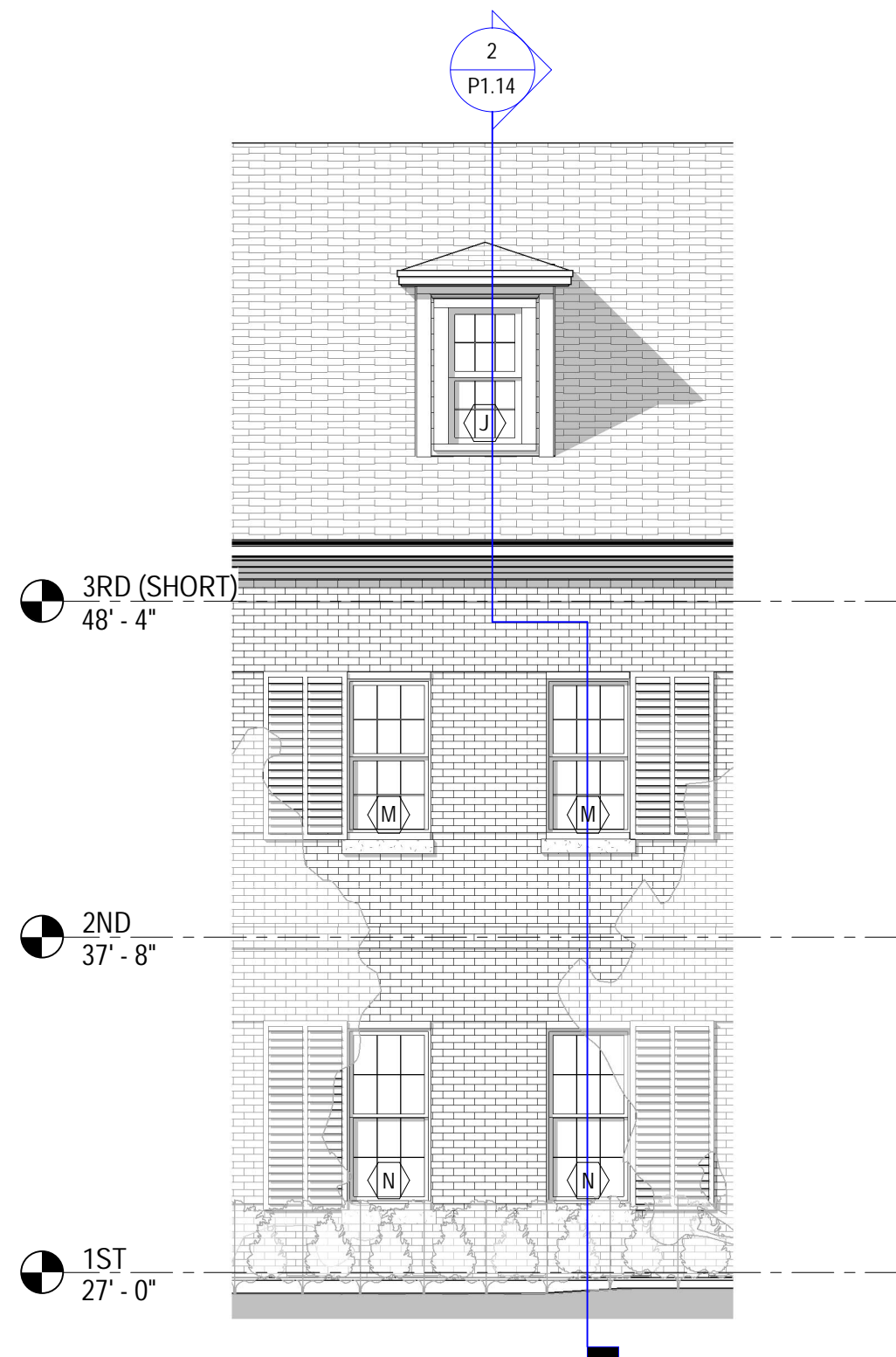
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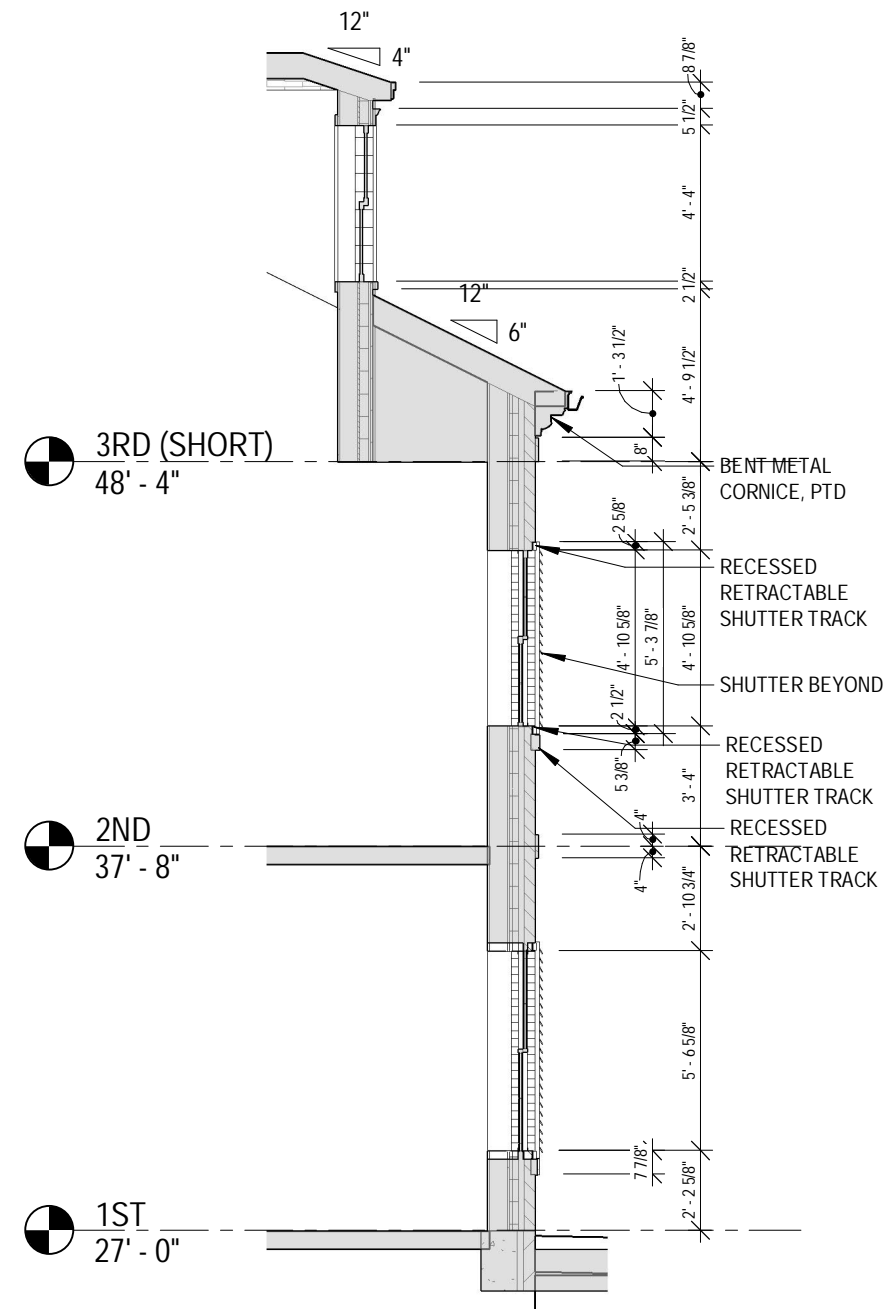
P1.13

PARTIAL EXTERIOR ELEVATIONS

93 PLEASANT STREET
HDCph1 SEPTEMBER 17, 2021



1 HDC ELEVATION - FRONT - NEW DORMER
3/16" = 1'-0"



2 HDC SECTION - THROUGH DORMER
3/16" = 1'-0"



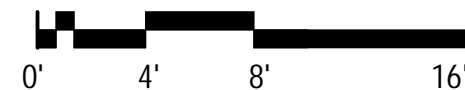
ELEVATION LEGEND

	SYNTHETIC SLATE ROOF SHINGLES
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EXTERIOR LIGHTING LEGEND

	EXTERIOR LIGHTING - WALL SCONCE
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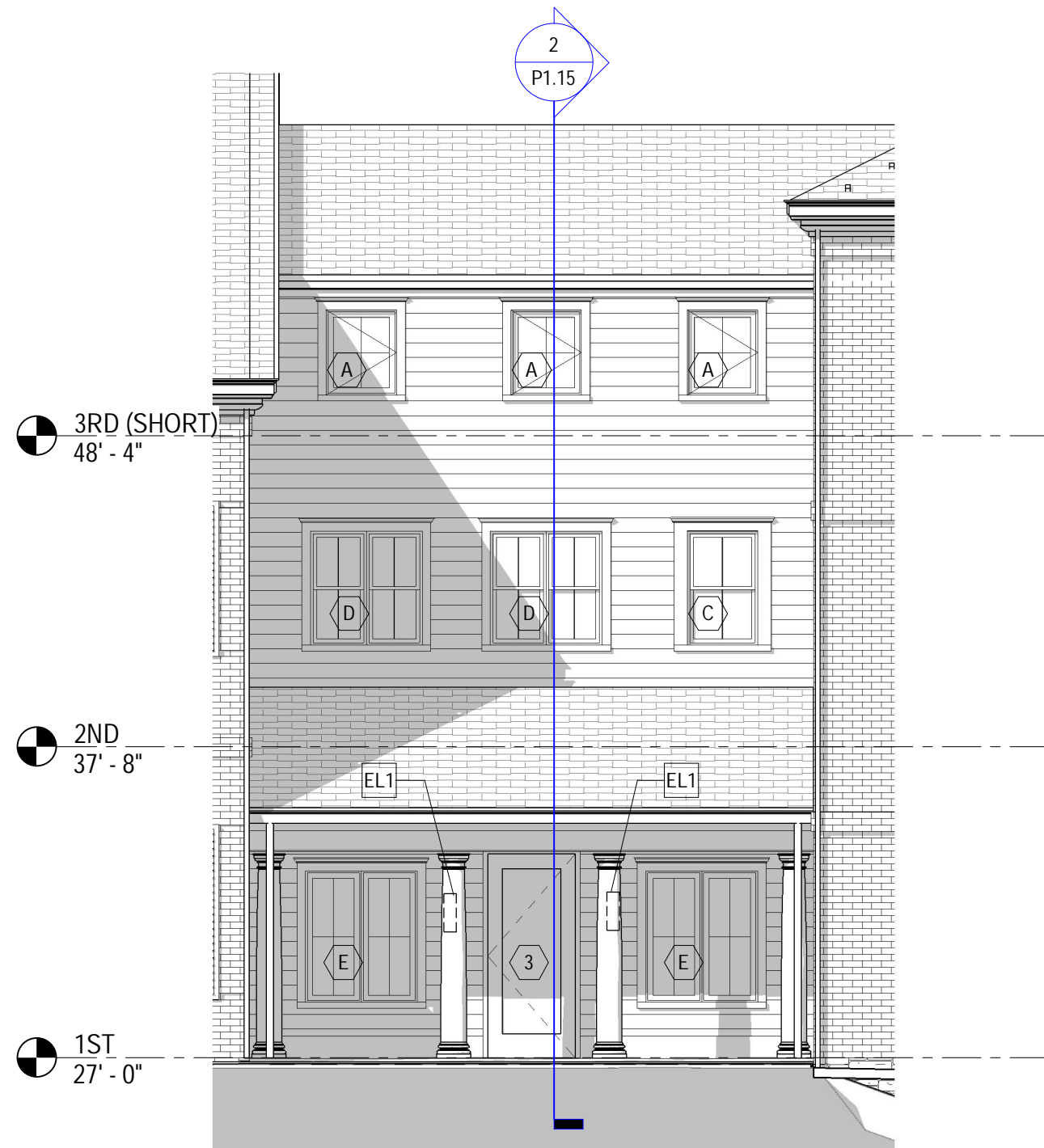
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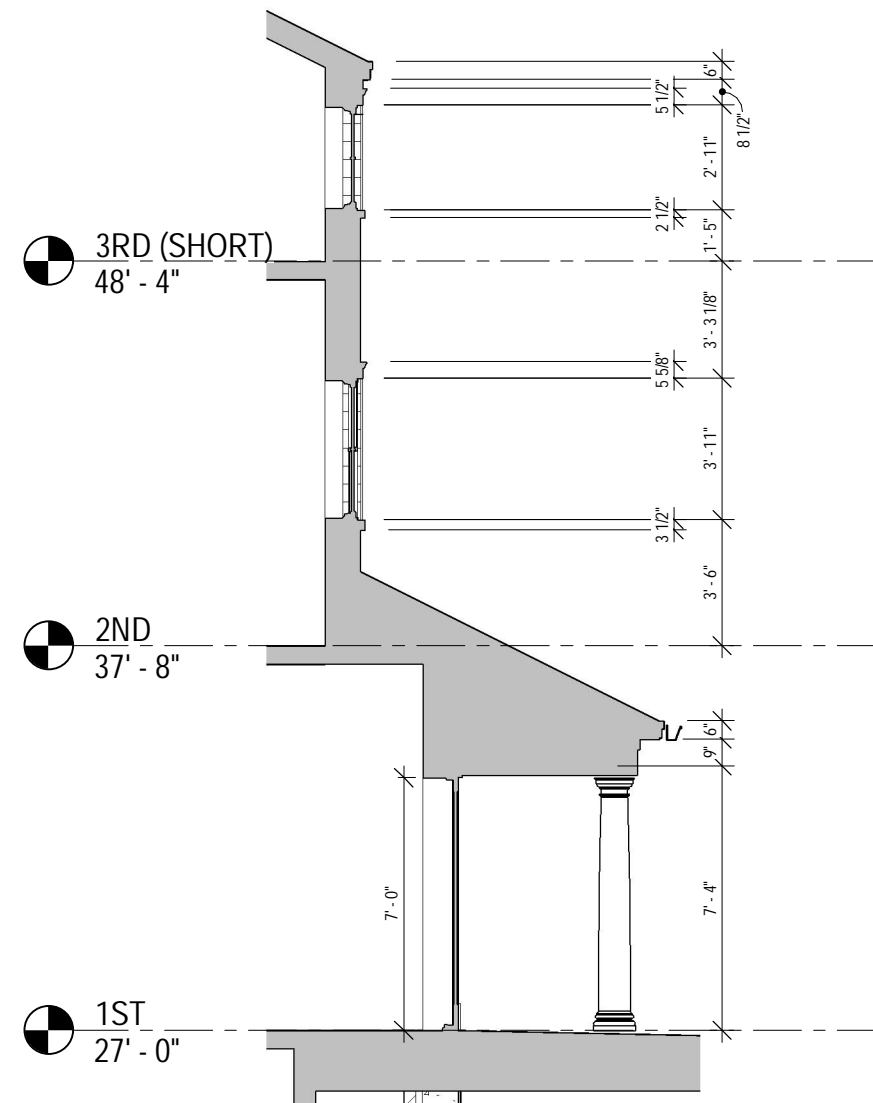
P1.14

PARTIAL EXTERIOR ELEVATIONS

93 PLEASANT STREET
HDCph1 SEPTEMBER 17, 2021



1 HDC ELEVATION - FRONT - NEW SIDE ENTRY
3/16" = 1'-0"

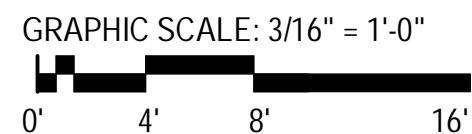


2 HDC SECTION - THROUGH SIDE ENTRY
3/16" = 1'-0"



ELEVATION LEGEND	
	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
	COMPOSITE RAINSCREEN BOARD
	ZINC PANELING

EXTERIOR LIGHTING LEGEND	
	EXTERIOR LIGHTING - WALL SCONCE
	EXTERIOR LIGHTING - HANGING LIGHT
	EXTERIOR LIGHTING - SOFFIT COVE LIGHT
	EXTERIOR LIGHTING - EMERGENCY LIGHT



P1.15

PARTIAL EXTERIOR ELEVATIONS

93 PLEASANT STREET
HDCph1 SEPTEMBER 17, 2021

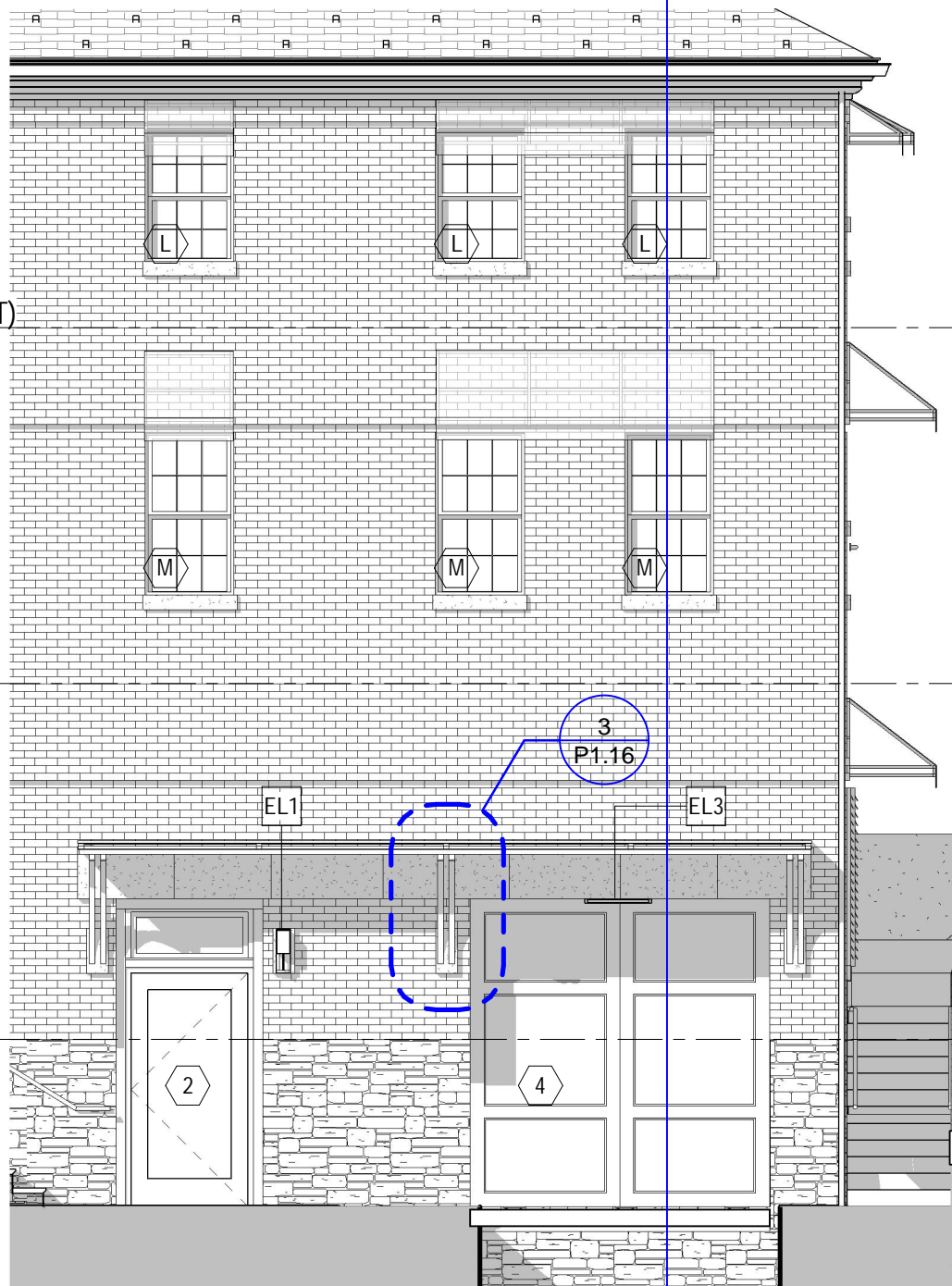
3RD (SHORT)
48' - 4"

2ND
37' - 8"

1ST
27' - 0"

2
P1.16

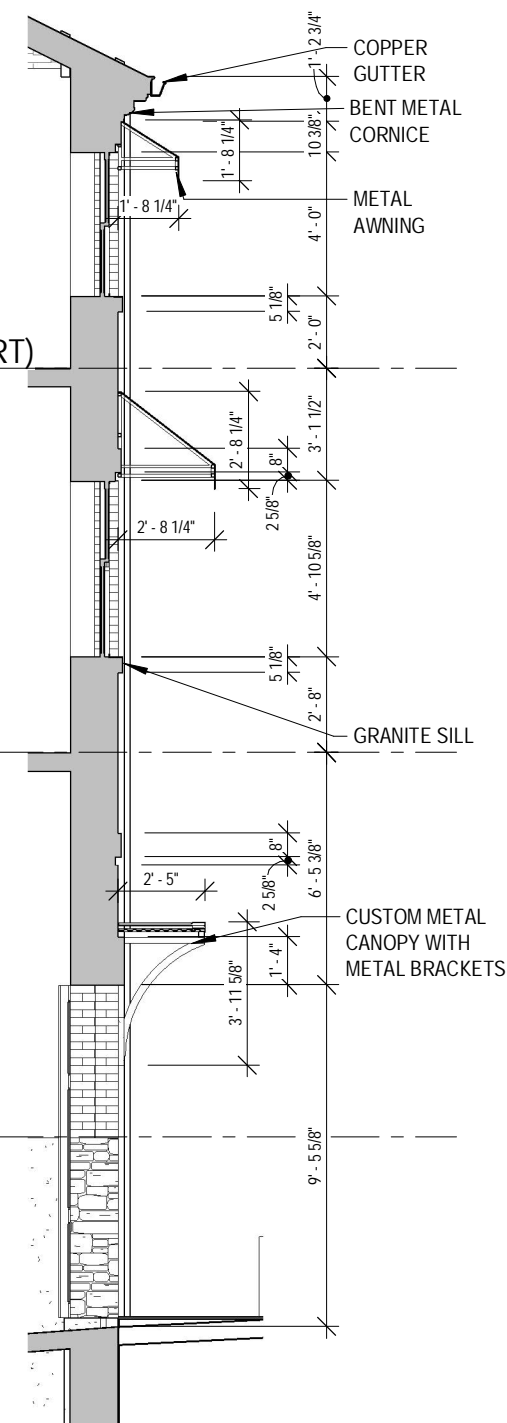
3
P1.16



3RD (SHORT)
48' - 4"

2ND
37' - 8"

1ST
27' - 0"



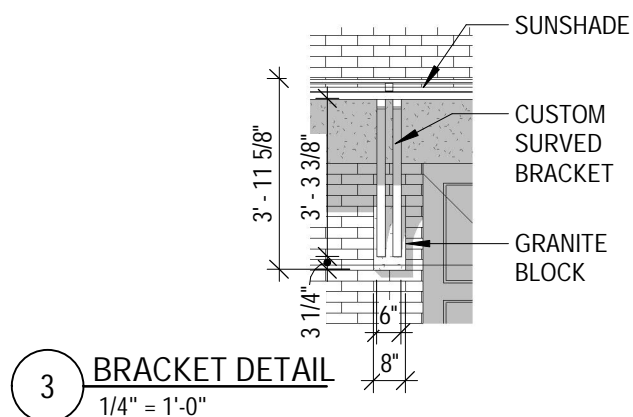
EXTERIOR LIGHTING LEGEND	
EL1	EXTERIOR LIGHTING - WALL SCENCE
EL2	EXTERIOR LIGHTING - HANGING LIGHT
EL3	EXTERIOR LIGHTING - SOFFIT COVE LIGHT
EL4	EXTERIOR LIGHTING - EMERGENCY LIGHT

ELEVATION LEGEND	
	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
	COMPOSITE RAINSCREEN BOARD
	ZINC PANELING

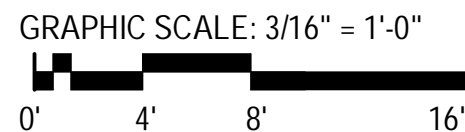


1 HDC ELEVATION - FRONT - NEW ACCESS DOOR & GARAGE DOOR
3/16" = 1'-0"

2 HDC SECTION - THROUGH GARAGE DOOR
3/16" = 1'-0"



3 BRACKET DETAIL
1/4" = 1'-0"



P1.16

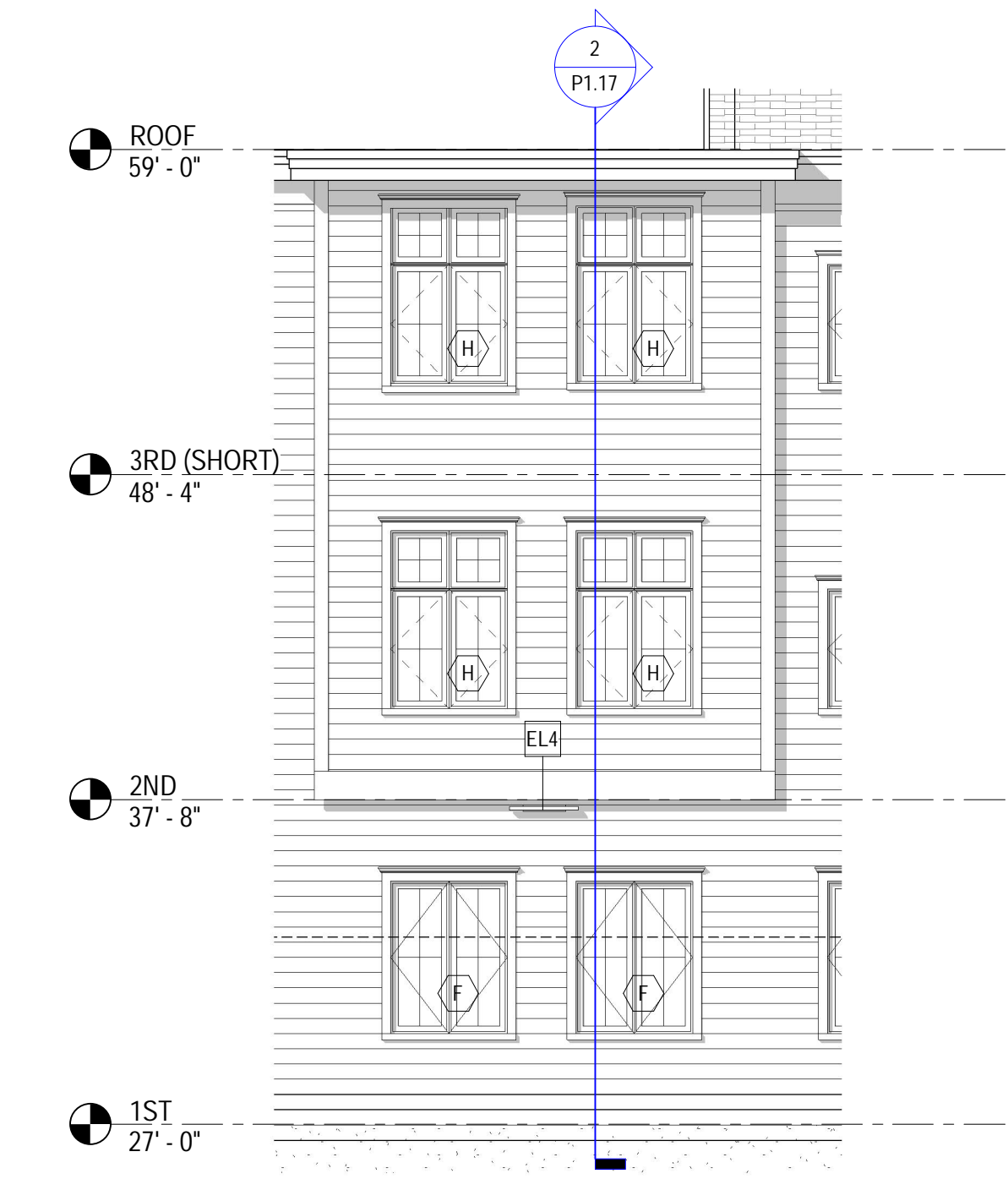
PARTIAL EXTERIOR ELEVATIONS

93 PLEASANT STREET
HDCph1 SEPTEMBER 17, 2021

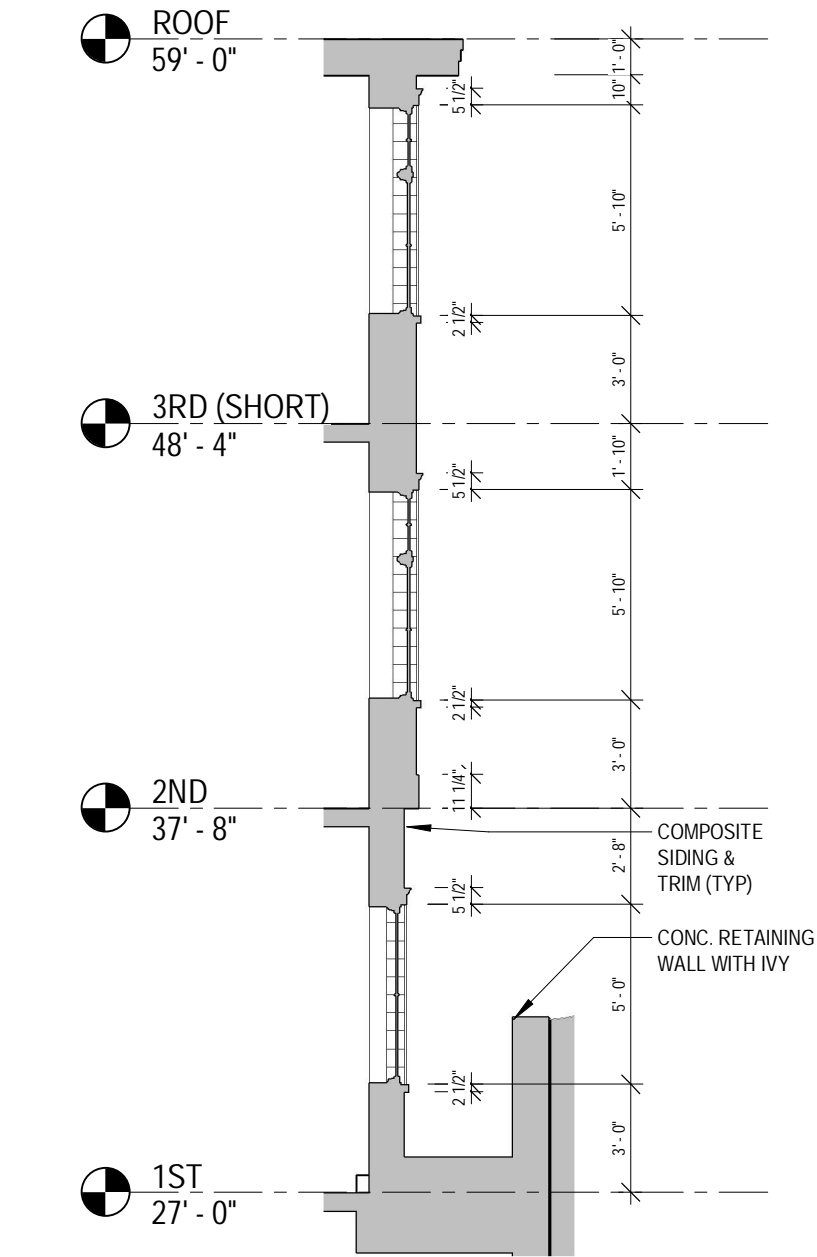


ELEVATION LEGEND	
	SYNTHETIC SLATE ROOF SHINGLES
	BRICK
	COMPOSITE RAINSCREEN BOARD
	ZINC PANELING

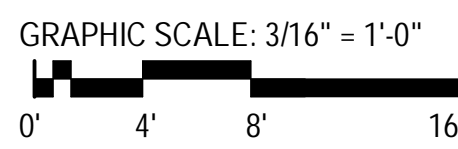
EXTERIOR LIGHTING LEGEND	
	EXTERIOR LIGHTING - WALL SCONCE
	EXTERIOR LIGHTING - HANGING LIGHT
	EXTERIOR LIGHTING - SOFFIT COVE LIGHT
	EXTERIOR LIGHTING - EMERGENCY LIGHT

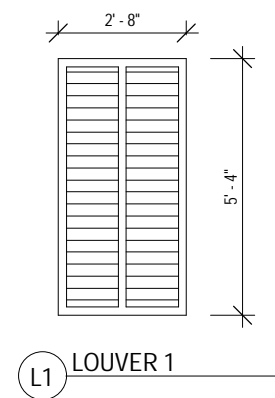
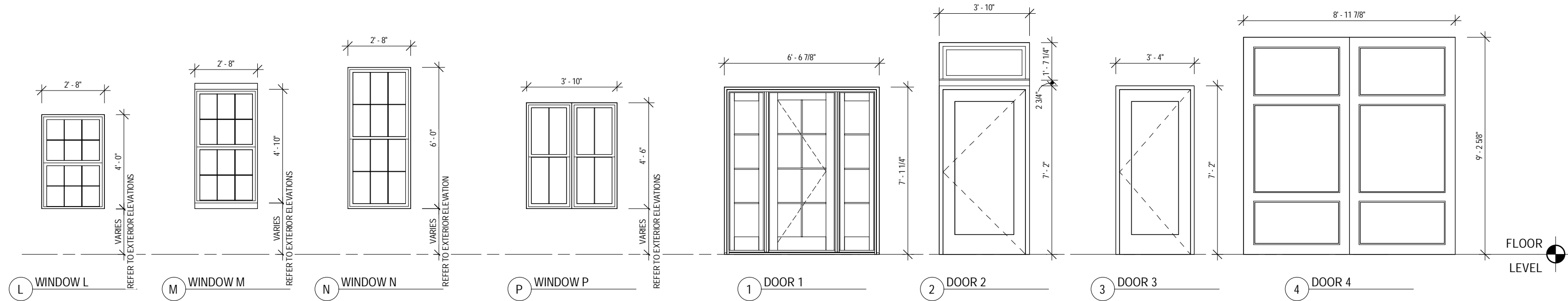
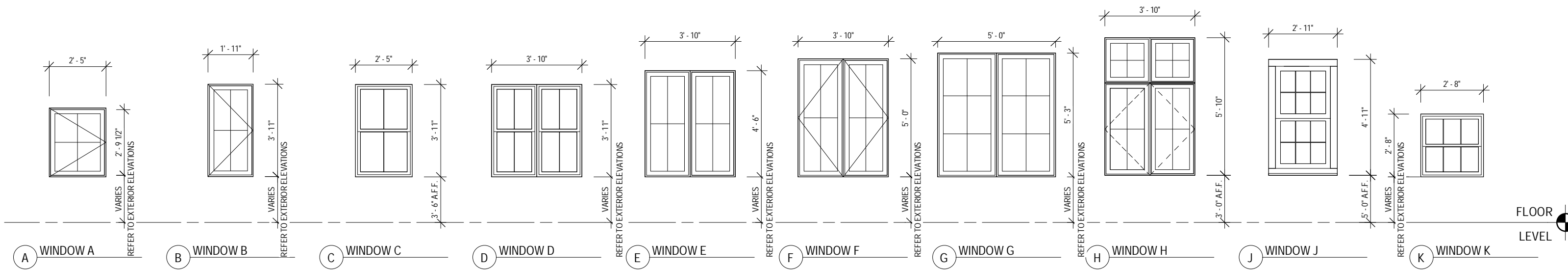


1 HDC ELEVATION - REAR - BUMPOUT
3/16" = 1'-0"



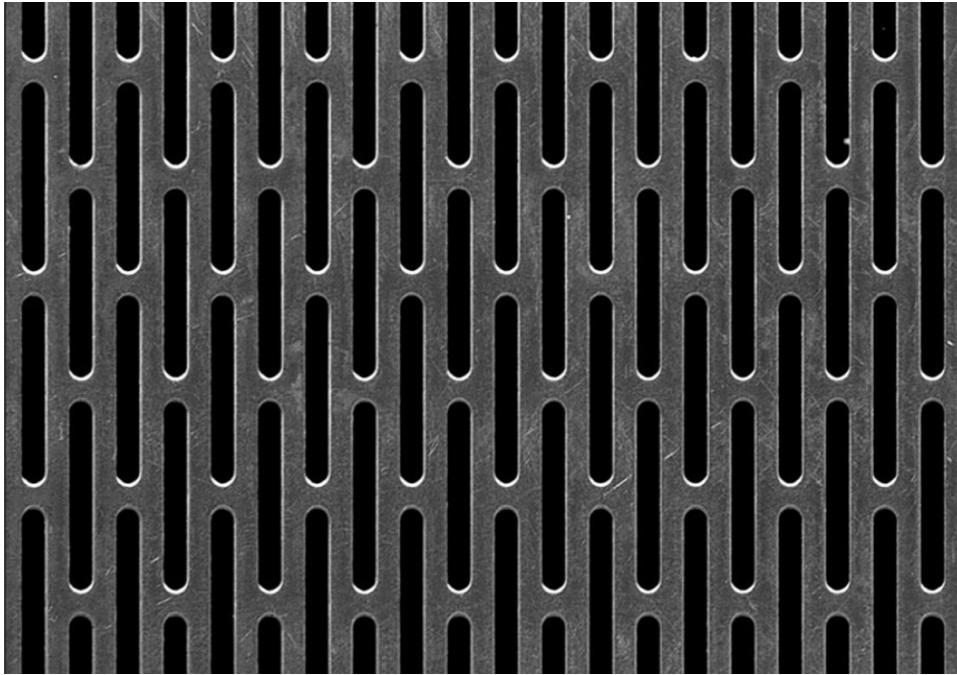
2 HDC SECTION - THROUGH REAR BUMPOUT
3/16" = 1'-0"







MATERIALS LEGEND				9/19/2021
93 Pleasant Street - New Construction, Housing				
element	material	manufacturer/model	finish/color	
awnings	custom, slotted aluminum panel on steel frame	Frame: extruded aluminum. Top, side and valence panels: slotted metal, McNichols, 16890016 Perforated Metal Designer Perforated, Slotted, AIRLINE 1468, Aluminum, Alloy 3003-H14, .0630" Thick (14 Gauge), 1-1/2" x 1/4" Square-End Slot, Straight Centers, 68% Open Area	black Kynar flouropolymer	
brick	water struck clay	Morin Brick	old port red	
canopy & brackets (@ garage door & entry)	custom corrugated metal decking on steel frame with curved steel brackets	MASA Architectural Canopies, Extrudeck Series	black Kynar flouropolymer	
entry doors	Aluminum Storefront Entrance	Kawneer 350T Insulpour	Medium Bronze	
garage Door	Engineered wood clad panels , aluminum frame	Armlite Tmbrlite / carriage doors	walnut panels; black anodized frame	
gutters & downspouts	zinc coated copper	K Profile	mill finish	
masonry sills & trim	granite	regionally sourced	to match existing building (concord gray?)	
roofing	synthetic slate	Eco-star, Empire slate	smoke	
shutters	aluminum sliding plantation shutters	Two-USA, Weatherwell Aluminum Shutters	black	
shutter tracks, retractable sliding	extruded aluminum	Accuride AL4160	black	
siding & trim	composite polyash clapboards & profiles	Boral TruExterior	field painted per renderings	
snow guards	metal cleats	Alpine	Copper	
windows	fiberglass clad wood	Kolbe Fogent Series: Double hung & casement		
lighting - wall sconce E1	aluminum	Seagull, Cape May 88241-12	black frame/ etched white shade	
lighting - pendant E2	aluminum	Seagull, Calder 6250701-71	black frame/ etched white shade	
lighting - cove linear downlight E3	aluminum	Q-Tran, LED Flex Series IP67	anodized	
lighting - emergency exit wall light E4	aluminum	Signtex Inc. Lighting, Moonlite LED mullion mount	dark bronze	



CUSTOM AWNINGS - SLOTTED
ALUMINUM PANELS ON
EXTRUDED ALUMINUM FRAME;
BLACK FINISH. SEE DRAWINGS
FOR DETAILS.



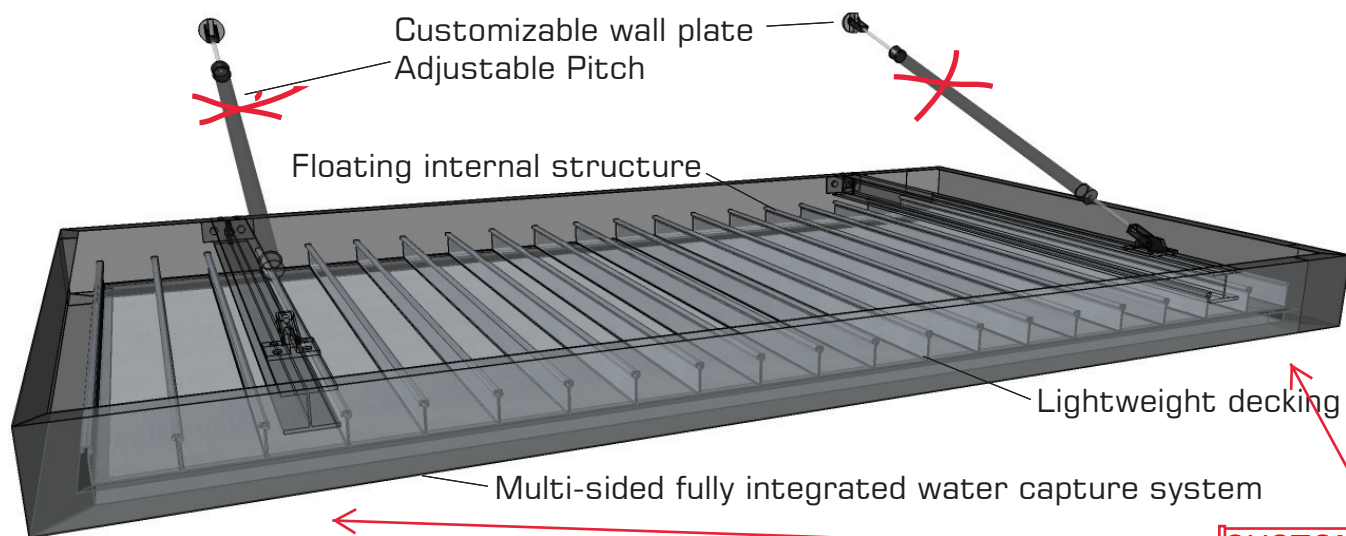


Old Port Blend Narrow Flashed Ran...

Old Port Blend Full Range
Old Port Red Range

Extrudeck® series

The gold-standard of extruded aluminum canopies



Applications: Doorways / Windows / Loading Docks / Walkways / Handicap ramps

Technical Data:

- All extrusions meet criteria for ASTM B221 and ASTM B429
- All products are engineered to meet standards of ASCE for design loads
- All channel framing is .125 6063-T5 high strength extruded aluminum

For PDF or AutoCAD Drawings go to: www.architecturalcanopies.com and click on downloads

Finishes:

- Standard finish super-durable Tiger Drylac Series 39 or 49 polyester resin based powder coating.

Other Finishes Available:

- Matthews/ppg Eurothane wet application
- Kynar Liquid Fluoropolymer

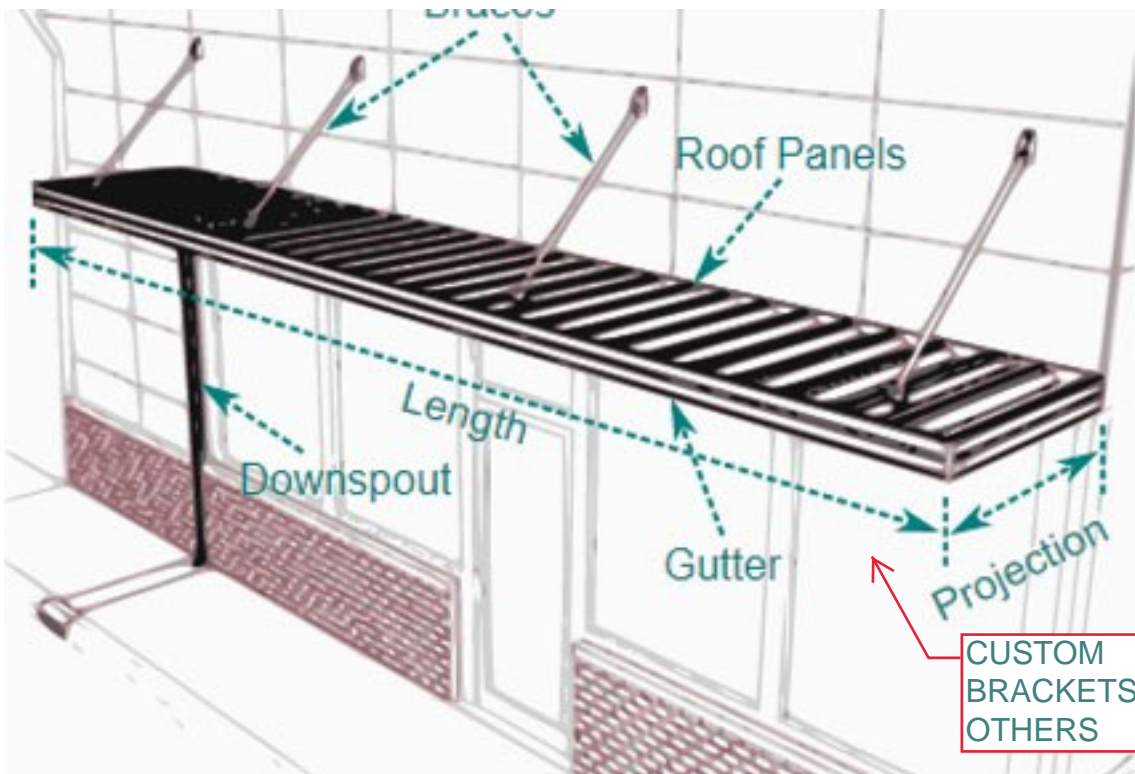
Full color palettes are also available for download at www.architecturalcanopies.com

All finishes are AAMA rated for excellent outdoor durability

Contact your Authorized Dealer

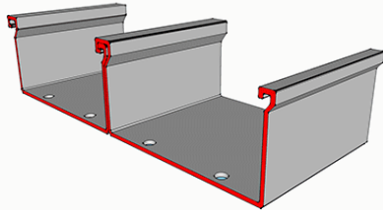


AWNING PROTOYPES -
SEE DRAWINGS FOR CUSTOM
DETAILS

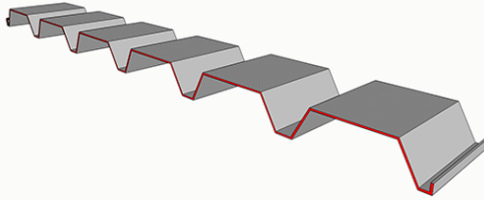


CUSTOM ALUMINUM AWNING - PROFILES

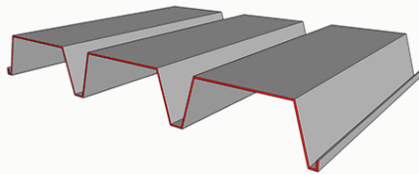
Decking



3"x6" Extruded Flat Soffit Decking (standard)



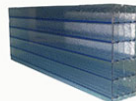
1.5" B Deck (non- standard)



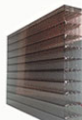
3" N Deck (non- standard)



Opal

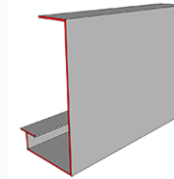


Blue
G7 Paneling



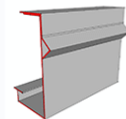
Bronze

Framing/ Fascia/ Crown

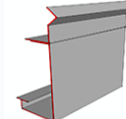


8 Inch Standard "J" Frame

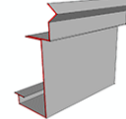
Duckbill Crown



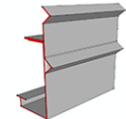
Standard



Raised

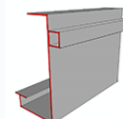


Raised Protrude

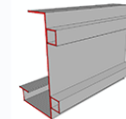


Stacked

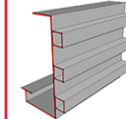
Bead Fascia



Single

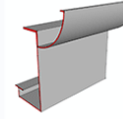


Double

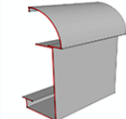


Triple

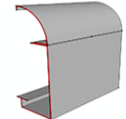
Quarter Round Crown



Standard

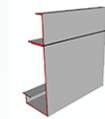


Invert Protrude

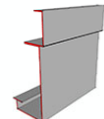


Inverted

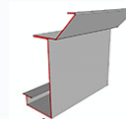
Box Crown



Raise Flush

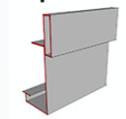


Raise Protrude

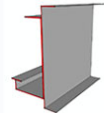


Classic Crown

Drop Crown



Industrial "Light"



Light Trough



Redefining Thermal Entrances with IsoPour™ Technology



Ask more from your door, and get it all with Kawneer's new Insulpour® Thermal Entrances, featuring IsoPour™ technology. This innovative product offering gives architects, developers, owners, and glazing contractors the ability to create a true thermally broken entrance system. It's an ideal solution for high-end commercial and multifamily facilities looking to improve thermal control in common areas with moderate to high traffic.

By merging industry-proven pour and debridge and polymer isolator technologies, Kawneer's IsoPour™ Thermal Break technology creates thermally broken assemblies for enhanced building energy efficiencies with higher structural performance. Insulpour® Thermal Entrances simultaneously provide additional design flexibility through multiple door cross-rail and bottom rail choices along with dual finish capabilities for the door and door frame.

PERFORMANCE, STRENGTH & SECURITY

The door and frame both leverage IsoPour™ Thermal Break technology, enabling high thermal performance. Specifically aimed at quelling concerns about cold spots and thermal bridging from architects and specifiers, Insulpour® Thermal Entrances feature a true thermally broken door header, which significantly mitigates the formation of condensation when used with a concealed overhead closer. Insulating glass unit options of double pane 1" (25.4 mm) or triple pane 1-1/2" (38.1 mm) improve thermal and sound reduction performance.

For added strength, the 2-1/4" (57.2 mm) deep door has a stout 1/8" (3.2 mm) wall thickness, and the dual-welded corner construction of Insulpour® Thermal Entrances adds long-term performance. Each door corner comes with a limited lifetime warranty, good for the life of the door under normal use operation. It is transferable from building owner to owner and is provided in addition to the standard two-year warranty covering material and workmanship of each Kawneer door.

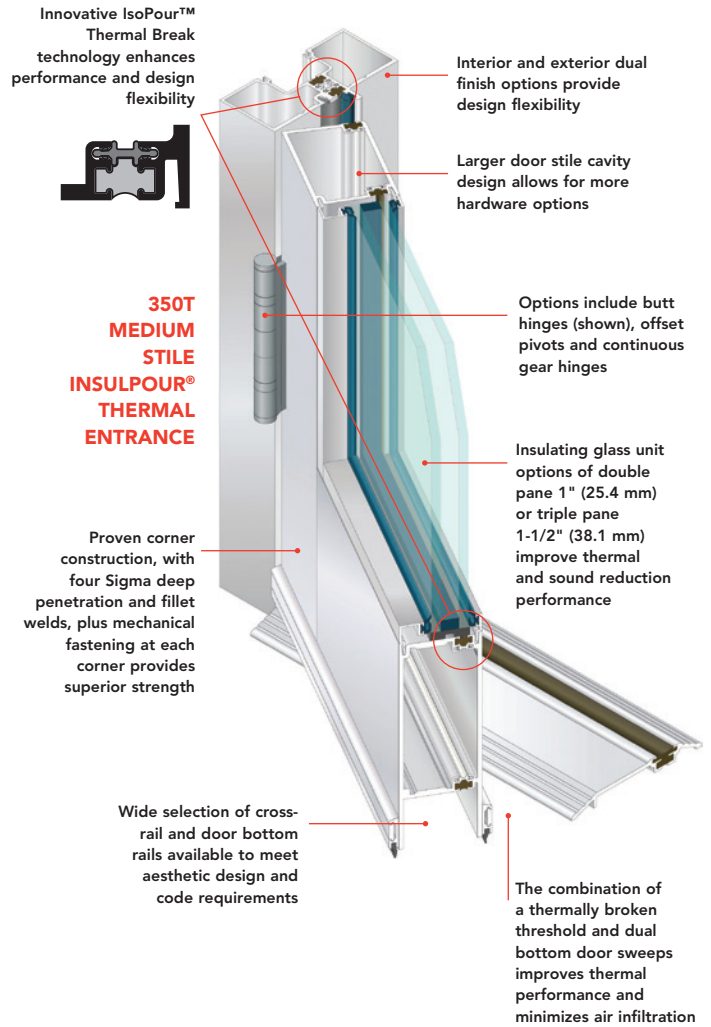
Insulpour® Thermal Entrances meet ASTM E1996 hurricane impact resistant requirements up to Zone 4 and Level D, and have undergone shock tube testing for blast mitigation. Contact your local Kawneer sales representative for limitations and specific application requirements.

AESTHETICS & DESIGN FLEXIBILITY

With sightlines that match standard, non-thermally broken entrances, Insulpour® Thermal Entrances offer 250T narrow, 350T medium and 500T wide stile options.

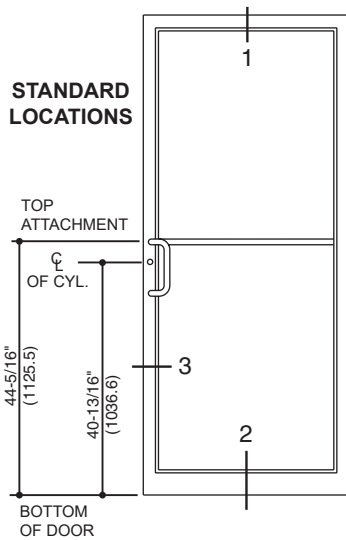
	VERTICAL STILE	TOP	BOTTOM RAIL
250T Narrow Stile	2-1/2" (63.5 mm)	2-15/16" (74.6 mm)	3-7/8" (98.4 mm)
350T Medium Stile	3-1/2" (88.9 mm)	3-1/2" (88.9 mm)	6-1/2" (165.1 mm)
500T Wide Stile	5" (127 mm)	5" (127 mm)	6-1/2" (165.1 mm)

The unique thermal break design allows for a wider choice of locking option hardware than previous thermal entrance designs. Coupled with various cross-rail sizes and multiple bottom rail heights of 7-1/2" (190.5 mm), 10" (254 mm) and 12" (304.8 mm), Insulpour® Thermal Entrances give architects, designers and building owners more opportunities to bring their vision to life.

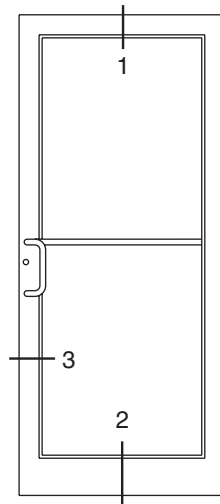


Additional information and CAD details are available at www.kawneer.com

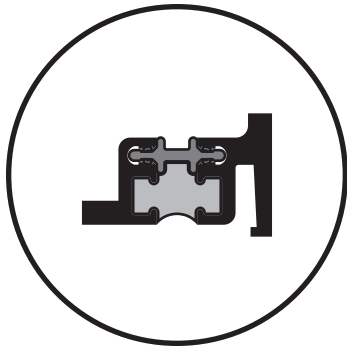
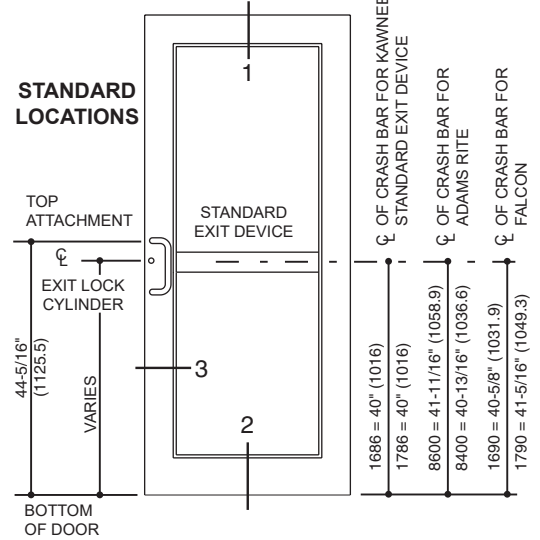
250T NARROW STILE



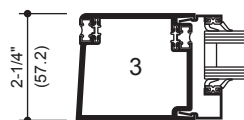
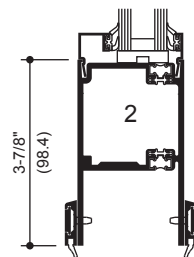
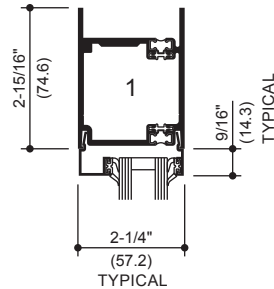
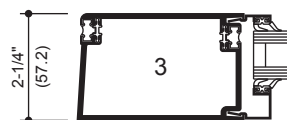
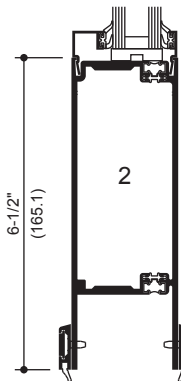
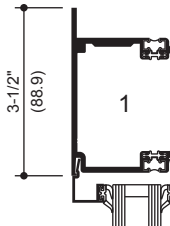
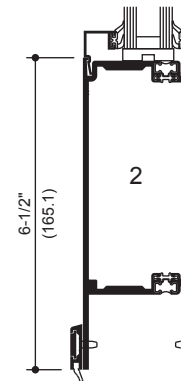
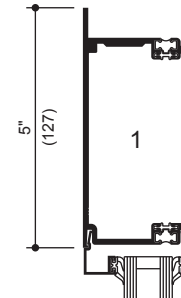
350T MEDIUM STILE



500T WIDE STILE



IsoPour® THERMAL BREAK

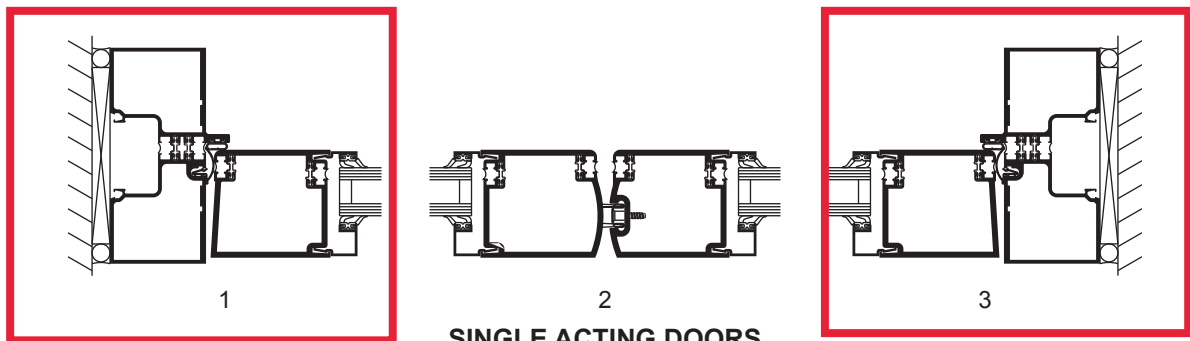
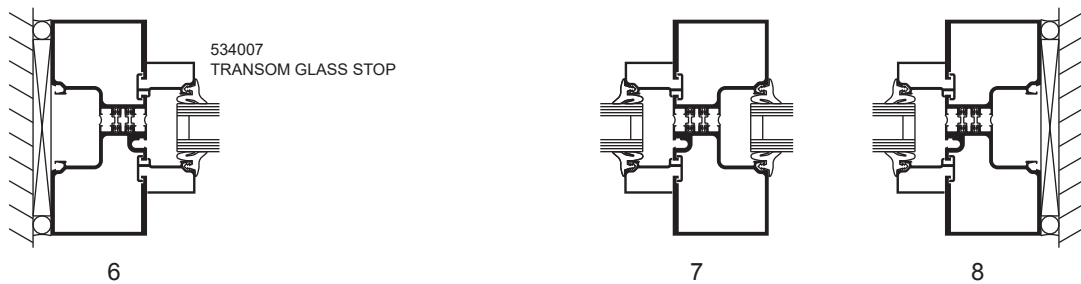
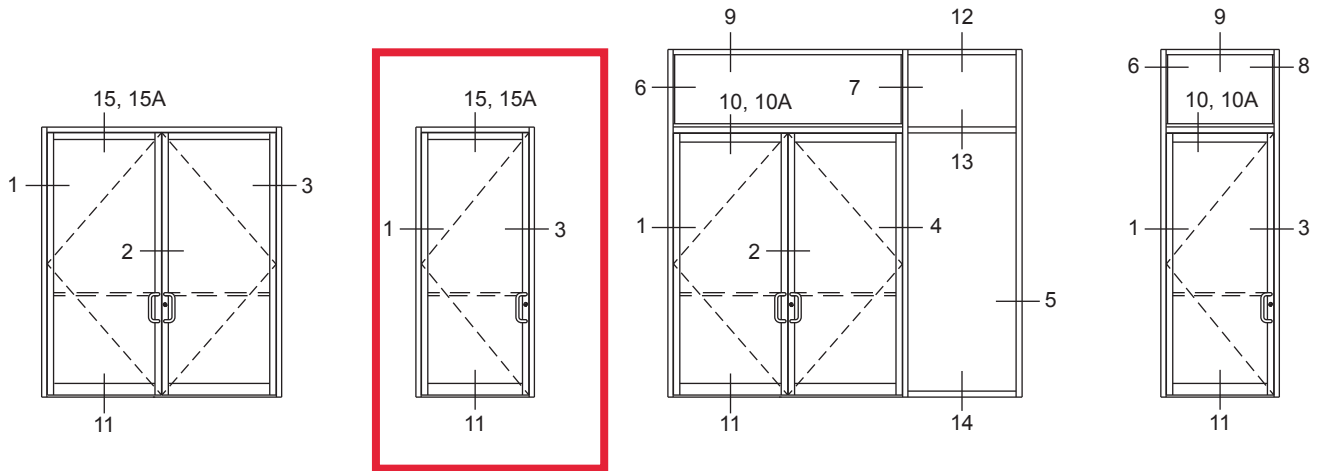
250T NARROW STILE
SINGLE ACTING350T MEDIUM STILE
SINGLE ACTING500T WIDE STILE
SINGLE ACTING

Note: 1-1/2" (38.1) Triple Insulating Glass Unit infill available.

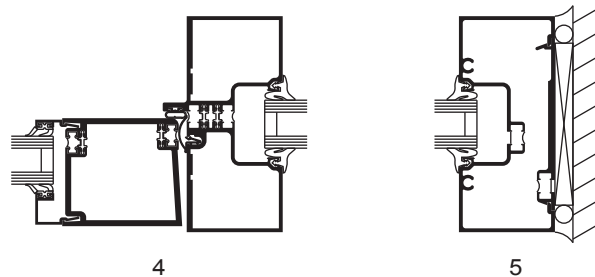
Additional information and CAD details are available at www.kawneer.com

NOTE:

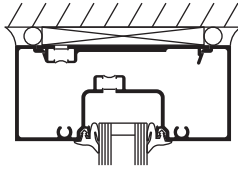
1. SERIES 250T NARROW STILE DOORS ARE DETAILED, MEDIUM STILE 350T DOORS AND WIDE STILE 500T DOORS ALSO MAY BE USED.
2. TRIFAB® VG 451T CENTER, 2" x 4-1/2" (50.8 x 114.3) FRAMING IS DETAILED WITH THE DOORS FOR REFERENCE. OTHER KAWNEER FRAMING SERIES OR CURTAIN WALL SYSTEMS MAY BE USED.



SINGLE ACTING DOORS

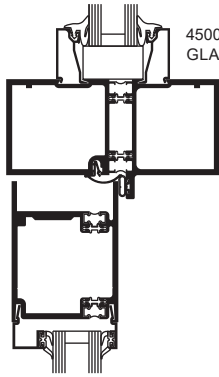


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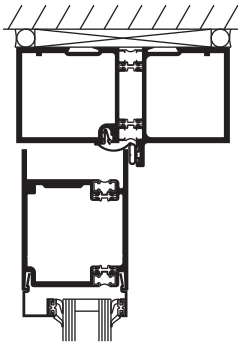


9

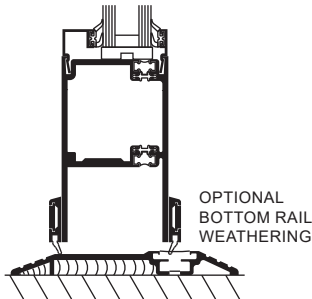
SINGLE ACTING DOORS

450022
GLASS STOPS

10

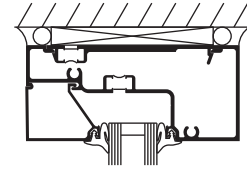


15

OPTIONAL
BOTTOM RAIL
WEATHERING

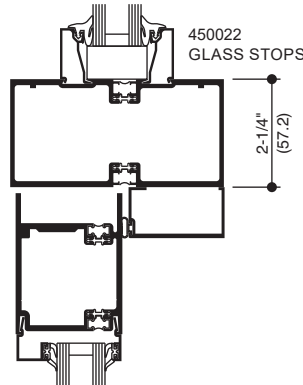
11

SURFACE OVERHEAD CLOSER

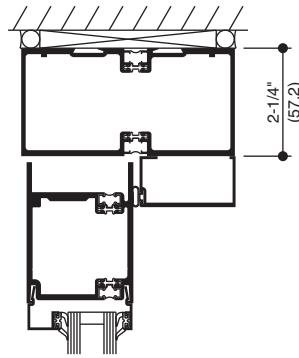


12

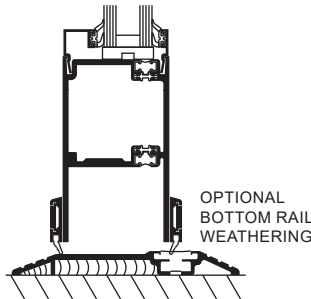
COC WITH SINGLE ACTING OFFSET ARM

450022
GLASS STOPS2-1/4"
(57.2)

10A

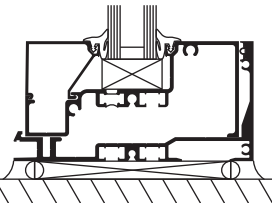
2-1/4"
(57.2)

15A

OPTIONAL
BOTTOM RAIL
WEATHERING

11

CONSEALED OVERHEAD CLOSER



14

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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PERMAFLUOR™ ARCHITECTURAL FINISHES

High-Performing Paints That Let You Design In Vibrant Living Color



BLACK

BOYSENBERRY

HARTFORD GREEN

SANDSTONE

CLASSIC BRONZE

MILITARY BLUE

BONE WHITE

COLONIAL WHITE

ANTIQUE BRONZE

DOVE GRAY

DARK IVY

CHARCOAL

REDWOOD

SEA WOLF

MEDIUM BRONZE



STANDARD FINISH OPTION "COPPER"

*The **TimbRLite** model is perfect for a more sustainable wood garage door option.*

The engineered wood used in our TimbRLite model emphasizes the natural beauty found in real wood while offering less maintenance. These panels come in many different finishes and ArmRLite offers many different design options.

- Maximum Width of 20'2"
- Windloaded
- 20-Year Welded Frame Warranty*

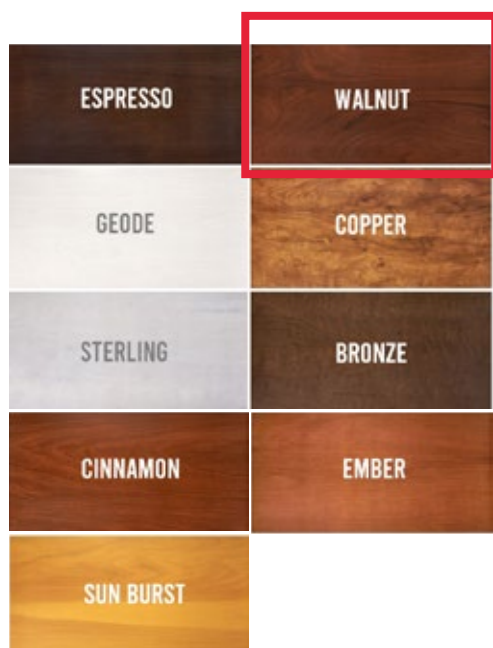
*Except the top section when trolley operated.

MATERIAL	6063-T6 Alloy
CONSTRUCTION METHOD	Heli-Arc Welding
TOP RAIL	4½"
BOTTOM RAIL	4½" or 7½" as req.
END STILES	4½" or 7½" as req.
CENTER STILES	3¾"
MEETING RAILS	3¾" wide per pair
FRAME THICKNESS	1¾"



Custom Garage Door Options

Due to our exclusive welded construction, ArmRLite's aluminum overhead sectional doors are capable of the highest degree of customization. Many of the options listed below are exclusive to ArmRLite due to our superior construction method.



FINISH OPTIONS

Wood Finishes: Nine different wood finishes are available. The standard color is "Copper." Consult ArmRLite for additional wood finish options.

Anodized Finishes: The standard finish for the TimbRLite Frame is Black Anodized. Optional anodized finishes include Clear Anodized if preferred. Includes a 20-year finish warranty except on installations within 1 mile of saltwater.

Fluoropon® Finishes: Upgrade option featuring hundreds of colors including metallic and non-metallic options. Custom color matches are also available upon request. Includes a 20-year finish warranty except on installations within 1 mile of saltwater.

RAL Powdercoat: Upgrade option featuring over 150 color choices to be selected from RAL color



INTERIOR PANEL OPTIONS

Solid

Insulated

Operable / Inoperable Louvers

Custom Panels



CUSTOM OPTIONS

ADA and Step-Over Pass Door*

Sloping Bottom

Awning Windows

Mail Slots

Energy Efficiency Package

Motor or Manual Operation

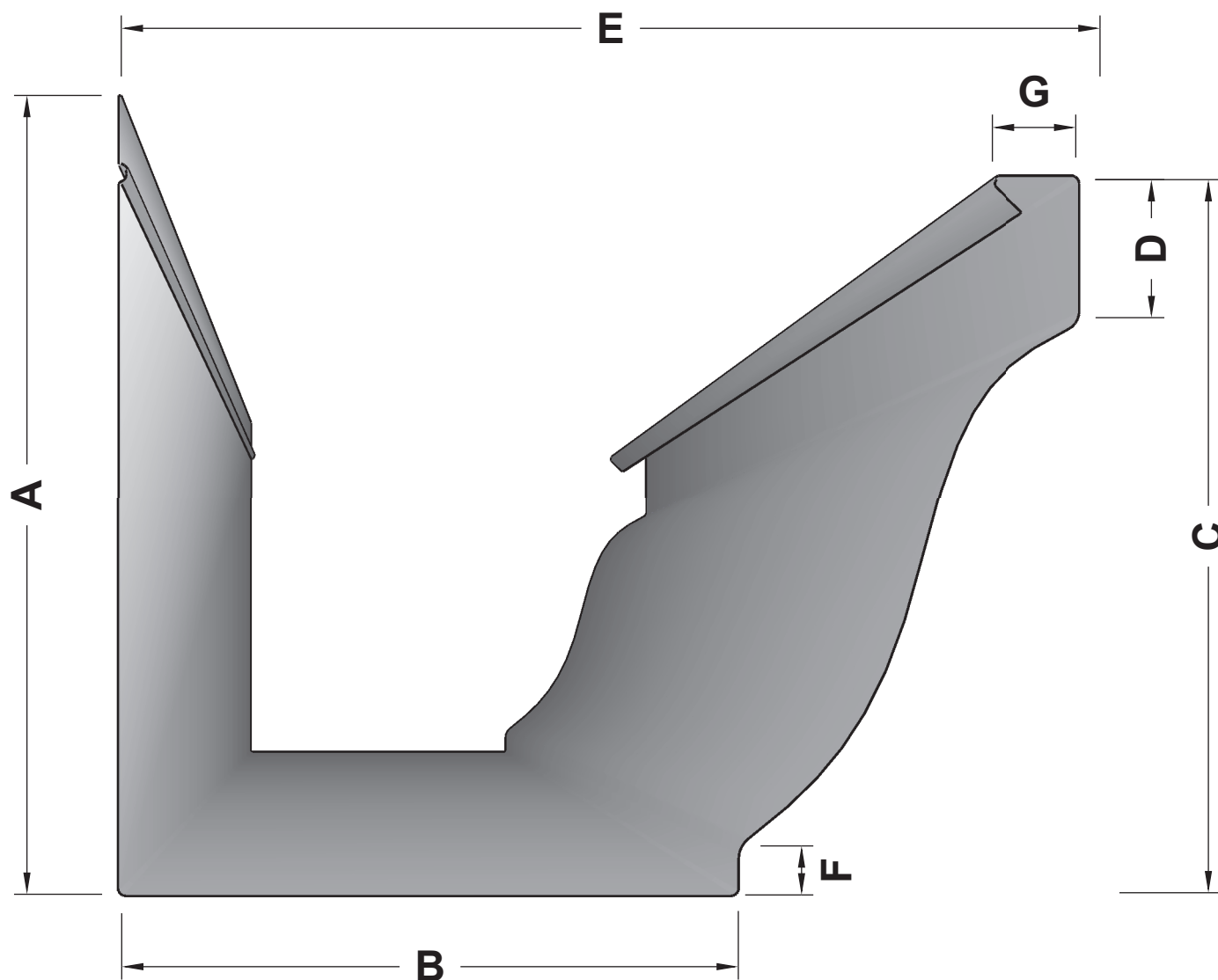
Corrosion Resistant Package

High Cycle Springs

Exhaust Ports

Matching Transoms, Side Lites, and Entrance Door

*Please consult with Arm-R-Lite regarding limitations.



Dimensions for Standard Gutter Sizes

SIZE \ LOC.	A	B	C	D	E	F	G
4K	3 1/8"	2 3/4"	2 7/8"	9/16"	4"	7/16"	1/2"
5K	3 5/8"	3 3/8"	3 3/8"	9/16"	5"	9/16"	1/2"
6K	4 7/8"	3 7/8"	4 5/8"	1"	6"	5/8"	9/16"
7K	5 7/8"	4 5/8"	5 5/8"	1"	7"	5/8"	5/8"
8K	7 1/4"	5 3/8"	7"	1"	8"	5/8"	5/8"

Notes:

4" 5" & 6" K Style Gutter is Roll - Formed and available in any length up to 40'

7" & 8" K Style Gutter is Brake Formed and available in lengths up to 20'



1310 E. Cornwallis Rd.
Durham, NC 27713
P-(919) 544-8887 F- 544-8898

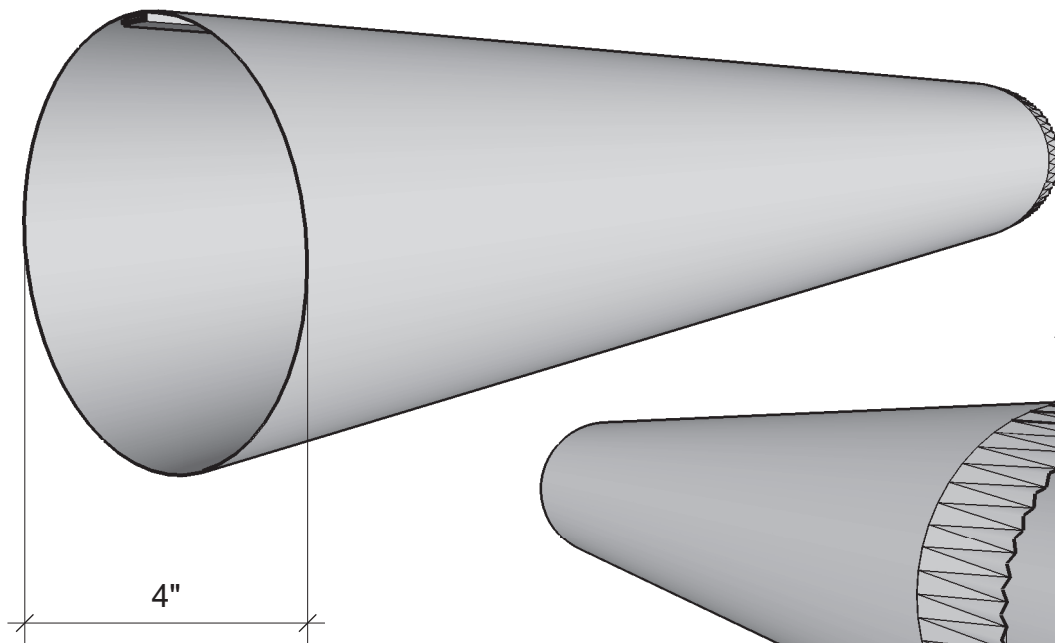
info@kmsheetmetal.com - www.kmsheetmetal.com

K Style 'Ogee' Gutter

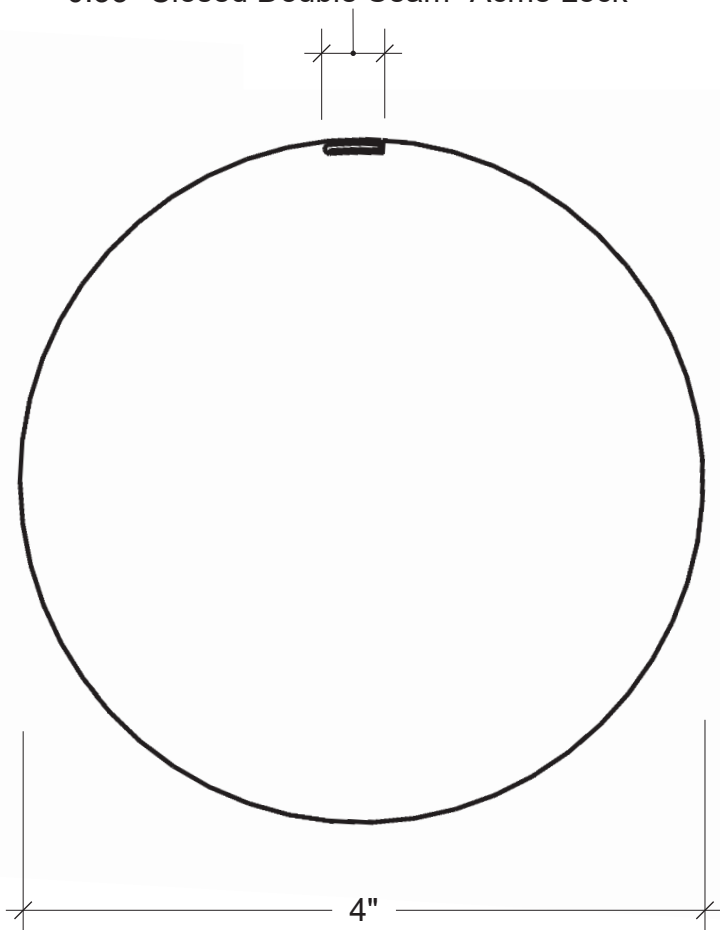
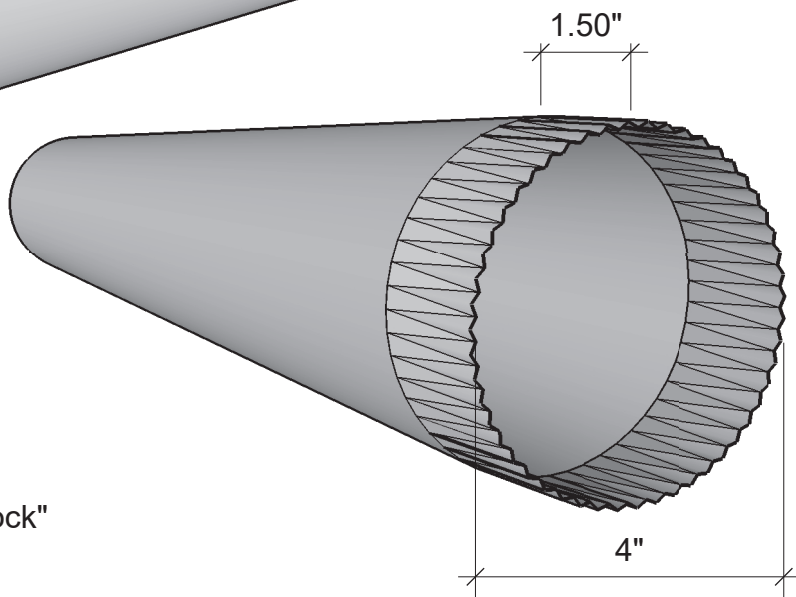
REVISIONS	
MM/DD/YY	REMARKS
1	...ORIGINAL DRAFT OF DRAWING
2	...
3	...
4	...
5	...

D 001





0.33" Closed Double Seam "Acme Lock"



Material Types Available

- ☐ 24 ga. Pre-Fin Kynar Steel Color: _____
- ☐ 24 ga. Galvalume Mill Finish
- ☐ .027 Aluminum Color: _____
- ☐ .032 Pre-Fin Kynar Alum Color _____
- ☐ .040 Pre-Fin Kynar Alum Color _____
- ☐ 16 oz. Copper
- ☐ 20 oz. Copper
- ☐ 16 oz. Lead Coated Copper
- ☐ 26 ga. Stainless Steel
- ☐ 24 ga. Stainless Steel

Notes:

Downspout is only available in 10'0" sections

Downspout is crimped on one end for easy installation



1310 E. Cornwallis Rd.
Durham, NC 27713
P-(919) 544-8887 F- 544-8898

info@kmsheetmetal.com - www.kmsheetmetal.com

4" Round Downspout

REVISIONS		
MM/DD/YY	REMARKS	
1	...ORIGINAL DRAFT OF DRAWING	
2		
3		
4		
5		

D 001

Empire Slate



Environmentally friendly synthetic slate roofing tiles proudly made in the USA
Pioneers of sustainable roofing since 1993

Empire Slate Color Palette

[illegible]

© 1998 E. J. Kirby, David L. Loefer, and Eugene D. Hunt. All are trademarks of Kirby L.L.C. See www.kirbyllc.com for available literature.

- UL listed Class A or C fire resistance (UL 790)
- UL Class 4 impact resistance (UL 2218)
- Wind resistance to 110 mph (ASTM D3161)
- Prolonged UV Exposure (ASTM G155)
- UL Evaluation Report, AC07-UL ER18920-01
- Fungus resistant (ASTM G21-09)
- Miami-Dade County, Florida NOA No. 17-1227.10 11/07/23
- Texas Dept. of Insurance Evaluation (RC-420)
- May contribute to LEED® points
- Manufactured in strict adherence to ISO 9001:2015 Quality Management



42 Edgewood Drive | Holland, NY 14080
800.211.7170 | www.ecostar11c.com

Innovative Design, Classic Slate Look

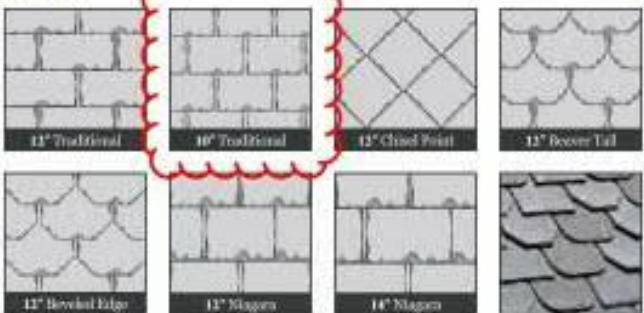
EcoStar Slate

Post-industrial recycled compounds are utilized to create a lightweight and environmentally responsible alternative to natural slate. An EcoStar roof offers beautiful, yet proven protection for your most prized investment. It is an inspiration to homeowners looking for affordable style and uncompromised performance.

Significant advantages:

- Weights significantly less than real slate
- Protects against extreme weather conditions
- Reduces need for maintenance and repair
- Lessens environmental impact
- Exceeds industry performance standards
- 50-year warranty

Profiles



Achieve a custom look by combining multiple profiles

Product Offering

Many unique shapes and designs from Green Star's recycled roofing materials. EcoStar offers a variety of tile shapes, including traditional, modern, and custom designs. The variety of shapes and designs allows for a wide range of roofing options, from traditional to modern. The variety of shapes and designs allows for a wide range of roofing options, from traditional to modern.



12\"/>

The second row of the 12\"/>



12\"/>

The second row of the 12\"/>



12\"/>

The second row of the 12\"/>



The right tile for any property

Whether you are looking to elevate the look of a residential property, meet the performance needs of a commercial property, or preserve the look of a historical property, EcoStar offers the right tile.

Majestic Slate

EcoStar's original eco-friendly tile, made of 80% recycled materials, meeting the needs of most residential applications.

Empire Slate

The same classic slate look with additional energy-saving benefits, and design features that meet the needs of commercial and historical properties.

Traditional vs. Niagara

The Niagara Slate profile is available in the Majestic and Empire formulas, but offers an increased tile size and thickness for enhanced shadow lines and increased aesthetic appeal.

Tile Features	Majestic Slate		Empire Slate	
	Traditional	Niagara	Traditional	Niagara
Percent Recycled Material	80%	80%	25%	25%
Tile Widths	10\", 12\"	12\", 14\"	10\", 12\"	12\", 14\"
Tile Thickness (at butt edge)	1/4\"	5/8\"	1/4\"	5/8\"
Exposure	6\", 7\"	9\", 10\"	6\", 7\", 8\"	9\", 10\"
Cool Colors	No	No	Yes	Yes
Fire Rating	Class C	Class C	Class A	Class A
Impact Rating	Class 4	Class 4	Class 4	Class 4
Designer Tiles	Yes	No	Yes	No

Cool Colors

Enjoy additional energy savings from our line of cool colors, only available in Empire tiles

Note: Cool colors are also available in non-cool formulas



273 CORPORATE DRIVE
PORTSMOUTH, NH 03801
T 603.436.2551
WWW.JSAINC.COM

INNOVATE YOUR SPACE

WITH WEATHERWELL ALUMINUM SHUTTERS





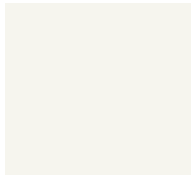
Weatherwell

Designed for Beauty. Built to Weather Life.

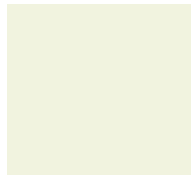
- *Custom made in a Western style overseas factory
- *Soft lines mimic a traditional wood plantation shutter
- *Available in 3 blade sizes and fixed blade
- *Great for use in high traffic, internal and wet areas

WEATHERWELL ALUMINUM OPTIONS

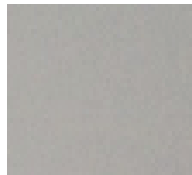
STANDARD COLOR OPTIONS



White



Pearl



Silver



Black

WOOD GRAIN POWDERCOAT



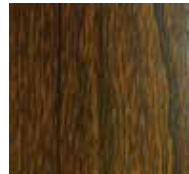
Golden Oak



Light Cedar



Limewash



Walnut

AVAILABLE SECURITY FEATURES



Security Bolt



Flush Bolt

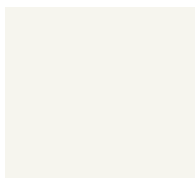


Engineered to Weather the Elements .

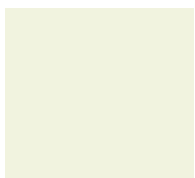
- *Custom made in the USA
- *Clean, modern design with no visible screws or tilt rod
- *Fix blades in place with the exclusive 'Blade Stay' feature
- *Concealed mechanisms and powder coating give maximum outdoor durability
- *Extreme wind ratings
- *Designed for commercial and multi-residential use

WEATHERWELL ELITE ALUMINUM OPTIONS

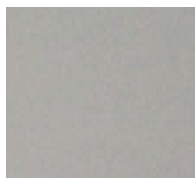
STANDARD COLOR OPTIONS



White



Pearl



Clear-Coat Anodized



Black

WOOD GRAIN POWDERCOAT



Knotty Pine



Walnut Matte

BLADE STAY



Comes Standard

AVAILABLE SECURITY FEATURES



Double Shute Bolt Key



Double Shute Bolt



ENCLOSE A PATIO



DECK TURNED OASIS



WIND PROTECTION



WET & HIGH USE AREAS

ENCLOSE A BEACHSIDE PATIO

Have a great outdoor space you want to use year round? The homeowners of this beachside home needed a unique way to enjoy their patio in the ever changing ocean climate. **Multi-fold** shutters enabled them to pull their shutters to the side on beautiful days or close them off quickly when the storms rolled in.

CITY SLEEK WITH WIND PROTECTION

Weatherwell shutters' robust design gives them the strength to survive high winds while maintaining a sleek look. This downtown high-rise HOA was looking for a way to protect furniture from winds. **Sliding** aluminum shutters met all their needs of security and still maintained the design continuity of the building.

DECK TURNED PRIVATE OASIS

An outside deck that was never used due to close neighbors became an oasis when enclosed with **Fixed** aluminum shutters. Movable blades that can be set in any position gave the homeowners ultimate flexibility and solitude. No more prying eyes.

WET & HIGH USE RESORT LIVING

Weatherwell Aluminum shutters are perfect for extending the luxurious look of timber shutters into commercial and high-use areas. This beachside resort needed to ensure privacy for the hot tub enclosures around their property. **Hinged** shutters maintained the picturesque view and privacy while allowing airflow.

**CONTACT US FOR A FREE DESIGN CONSULTATION AND
SEE HOW WE CAN INCREASE THE VALUE OF YOUR HOME**



Corrosion-Resistant Movement Solutions

Accuride corrosion-resistant slides deliver unmatched performance no matter the environment. Super heavy-duty, over-travel, stainless steel, or **aluminum**. Whatever the challenge, we have the movement solution.

Premium options for:

- Outdoor kitchens
- **Marine cabinetry**
- Industrial manufacturing



AL4165

NEW

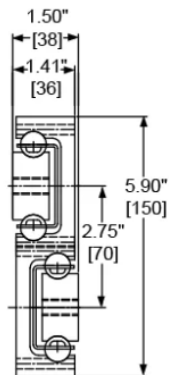


METAL / WOOD

AL4140

Super Heavy-Duty

- For loads up to 1,232 lbs.
- Full extension
- Available lengths 16"-48" **

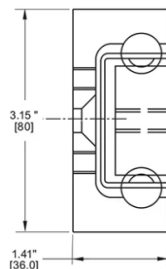


AL4140

AL4120

Super Heavy-Duty

- For loads up to 1,212 lbs.
- $\frac{3}{4}$ extension
- Available lengths 16"-48" **

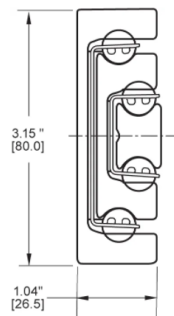


AL4120

AL4160

Super Heavy-Duty

- For loads up to 661 lbs.
- Full extension
- Available lengths 12"-20" * and 32"-40" **



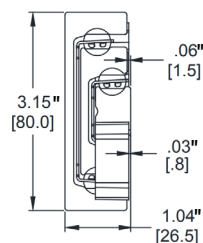
AL4160

AL4165

NEW

Super Heavy-Duty (Two-Way)

- For loads up to 596 lbs.
- Full extension (two ways)
- Available lengths 16"-40" **



AL4165

* Two-inch increments

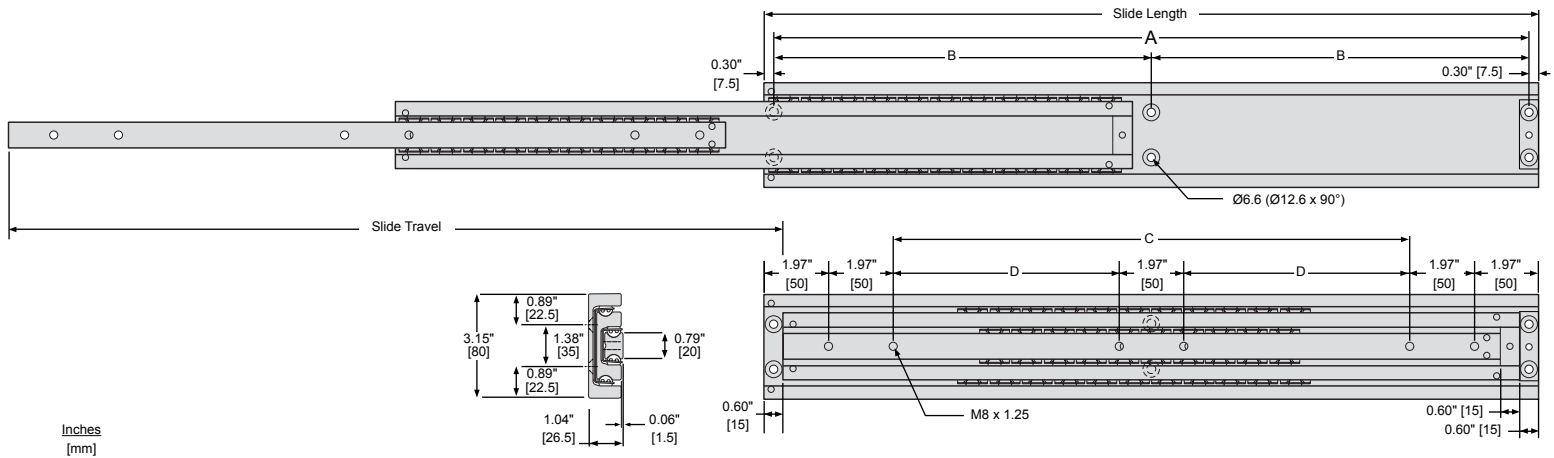
** Four-inch increments



Applications: This slide is ideal for extra heavy duty applications in environments subject to corrosion.

MODEL AL4160

Aluminum
Full Extension
Up to 661 lbs. [300 kg] Load Rating**
Slides Sold in Pairs



Finish:	Aluminum	Load Rating:	Up to 661 lbs. [300 kg] per Pair
Travel:	Full Extension	Side Space:	1.04" *** [26.5 mm]
Height:	3.15" *** [80 mm]	Mounting:	Side mount/hard mount
Lengths:	12" – 28", 32", 36", and 40" *** [300 mm – 700 mm, 800 mm, 900 mm, and 1000 mm]	Hardware:	Recommended 1/4" or M6 flat head screws and M8 screws x 1.25 (not included)

Part Number	Slide Length/Travel	A	B	C	D	Load Rating **
AL4160-12	11.81 [300]	11.22 [285]	5.61 [142.5]	3.94 [100]	.98 [25]	529 [240]
AL4160-14	13.78 [350]	13.19 [335]	6.59 [167.5]	5.91 [150]	1.97 [50]	562 [255]
AL4160-16	15.75 [400]	15.16 [385]	7.58 [192.5]	7.87 [200]	2.95 [75]	595 [270]
AL4160-18	17.72 [450]	17.12 [435]	8.56 [217.5]	9.84 [250]	3.94 [100]	628 [285]
AL4160-20	19.69 [500]	19.10 [485]	9.55 [242.5]	11.81 [300]	4.92 [125]	661 [300]
AL4160-22	21.65 [550]	21.06 [535]	10.53 [267.5]	13.78 [350]	5.91 [150]	661 [300]
AL4160-24	23.62 [600]	23.03 [585]	11.52 [292.5]	15.75 [400]	6.89 [175]	661 [300]
AL4160-26	25.59 [650]	25.0 [635]	12.50 [317.5]	17.72 [450]	7.87 [200]	650 [295]
AL4160-28	27.56 [700]	26.97 [685]	13.48 [342.5]	19.69 [500]	8.86 [225]	639 [290]
AL4160-32	31.50 [800]	30.91 [785]	15.45 [392.5]	23.62 [600]	10.83 [275]	595 [270]
AL4160-36	35.43 [900]	34.84 [885]	17.42 [442.5]	27.56 [700]	12.80 [325]	551 [250]
AL4160-40	39.37 [1000]	38.78 [985]	19.39 [492.5]	31.50 [800]	14.76 [375]	507 [230]

** Load rating based on a pair of slides mounted 24" apart and tested at 10,000 cycles.

*** The lengths indicated in inches are approximate conversions from the metric measurements. Please see chart above for exact dimensions.

COMPOSITE SIDING - BORAL TRUEXTERIOR POLYASH SIDING BOARDS

Phenomenal Performance. Remarkable Workability

TruExterior® Siding & Trim offers both a lasting look while eliminating the need for gluing, gapping and other cumbersome and costly installation techniques.

APPLICATION

- Designed for use in non-structural applications
- Suitable for ground and masonry contact
- Can be used in moisture-prone areas
- Installation is the same regardless of the season

TOOLS

- Installed using proven woodworking tools and methods
- Carbide-tipped blades and bits are recommended for a longer tool life

FASTENING

- Accepts common high-quality, exterior-grade fasteners that are suitable for the local environment
- Can be fastened close to the edge
- No need for pre-drilling
- No mushrooming

PAINTING

- TruExterior® products come pre-primed and do require paint
- No need to prime end cuts
- Can be painted with any high-grade exterior paint when following the paint manufacturer's instructions
- Dimensionally stable, promoting long-lasting paint adhesions, even with dark colors*
- Paint lasts longer than on wood because TruExterior® products cycle virtually no moisture*
- Traditional exterior-grade caulks or exterior-grade wood fillers are all acceptable for filling nail holes

*Please see TruExterior® Siding & Trim Limited Warranties and Product Data Sheets for proprietary test results, located at TruExterior.com. Always follow local building codes and construction best practices. See the complete Installation Guidelines for TruExterior® Siding & Trim at TruExterior.com.

Truly innovative siding.

DURABILITY

- Virtually no moisture cycling, excellent paint durability
- WUI listed
- No need to prime ends or field cuts
- Resists rot and termite attacks*
- No excessive swelling*
- Suitable for ground and masonry contact

BEAUTY

- Tighter gaps, minimal movement—it will move less than PVC and vinyl
- Truly historically accurate profiles—get the look of traditional, authentic wood profiles
- True look of cedar siding profiles, real architectural detail

WARRANTY

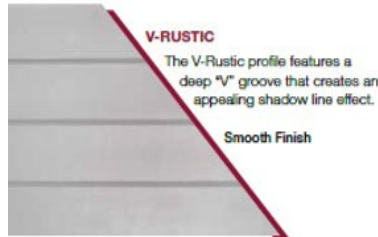
- 20 year limited warranty



Pictured: Cove/Dutch Lap

*Please see TruExterior® Siding & Trim Limited Warranties and Product Data Sheets for proprietary test results, located at TruExterior.com. Always follow local building code construction best practices. See the complete Installation Guidelines for TruExterior® Siding & Trim at TruExterior.com.

COMPOSITE SIDING - BORAL TRUExTERIOR POLYASH SIDING BOARDS



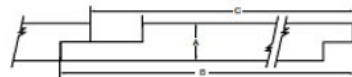
Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	5"
1 x 8	11/16"	7-1/2"	7"
1 x 10	11/16"	9-1/2"	9"



Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	4-31/32"
1 x 8	11/16"	7-1/4"	6-23/32"
1 x 10	11/16"	9-1/4"	8-23/32"



Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	4-31/32"
1 x 8	11/16"	7-1/4"	6-23/32"
1 x 10	11/16"	9-1/4"	8-23/32"



Nominal Size	Actual Thickness (A)	Actual Width (B)	Reveal (C)
1 x 6	11/16"	5-1/2"	4-31/32"
1 x 8	11/16"	7-1/2"	6-31/32"
1 x 10	11/16"	9-1/2"	8-31/32"



TruExterior Siding comes pre-primed and does require paint.

Accessories

TruExterior® Siding & Trim Accessories make it easy to create polished, professional-looking siding and trim installations. Decorative yet functional, the poly-ash accessories are designed to go where other materials can't, making them the perfect complement to cedar, fiber cement and other traditional siding products, as they are suitable for ground and masonry contact.



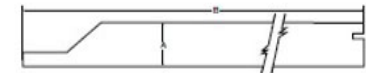
SKIRT BOARD

Provides a decorative yet functional way to create the required clearance between siding and grade.

Available Finishes:

- Smooth
- Woodgrain

Nominal Size	Actual Thickness (A)	Actual Width (B)
1 x 6	3/4"	5-1/2"
1 x 8	3/4"	7-1/4"
5/4 x 6	1"	5-1/2"
5/4 x 8	1"	7-1/4"



WINDOW POCKET RABBETED TRIM

The rabbeted groove helps trim to sit flush over the window's nailing flange, eliminating the need for cuts or shims.

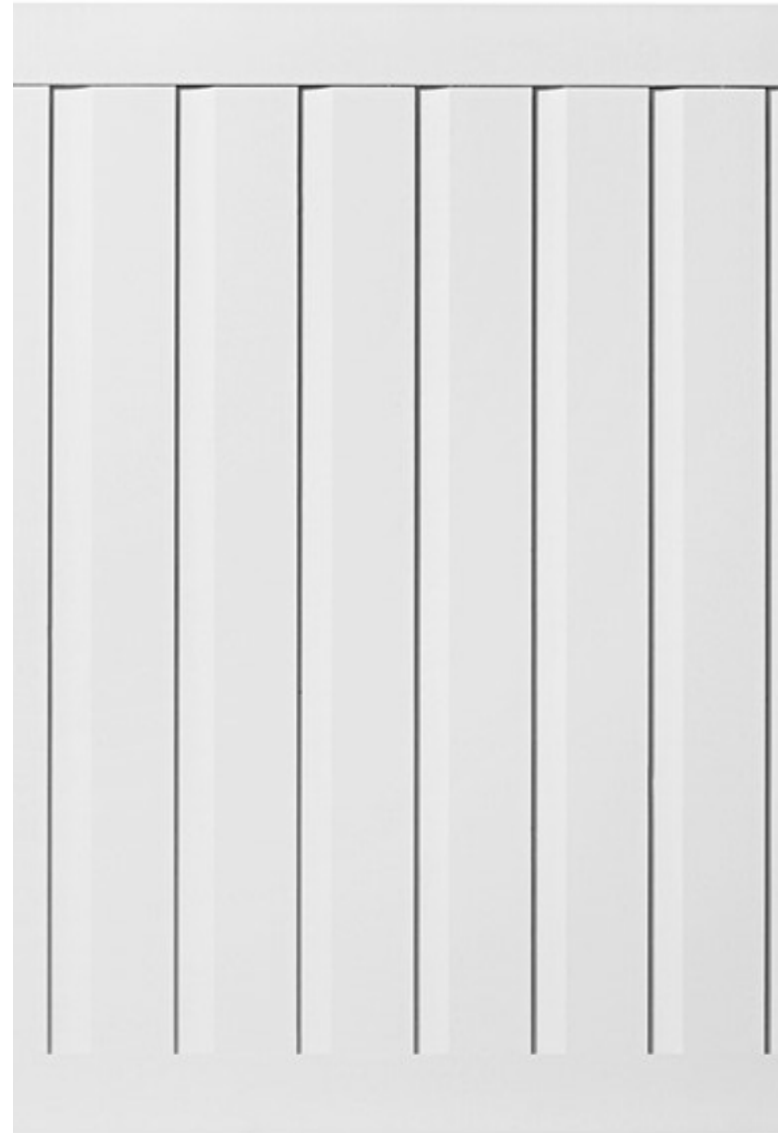
Available Finishes:

- Smooth
- Woodgrain

Nominal Size	Actual Thickness (A)	Actual Width (B)	Window Pocket (W' x W")
5/4 x 4	1"	3-1/2"	3/16" x 1-7/8"
5/4 x 6	1"	5-1/2"	3/16" x 1-7/8"
5/4 x 8	1"	7-1/4"	3/16" x 1-7/8"



COMPOSITE SIDING -
BORAL TRUEX EXTERIOR
POLYASH SIDING
BOARDS



Cut Sheet - PD30Z

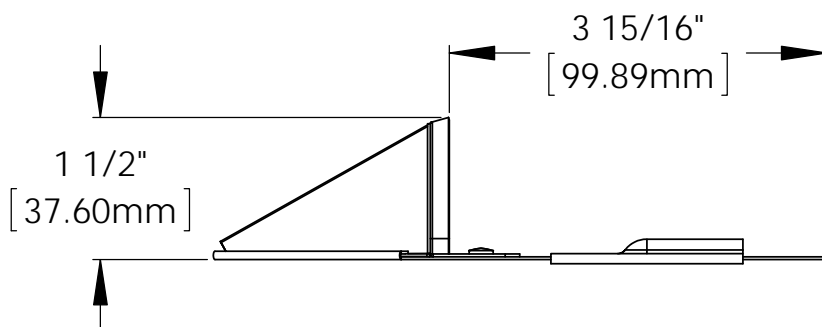
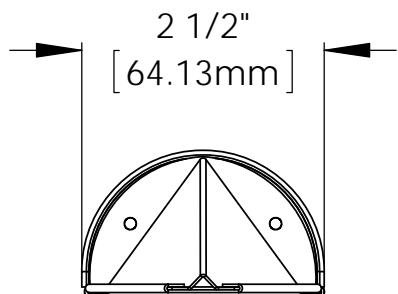
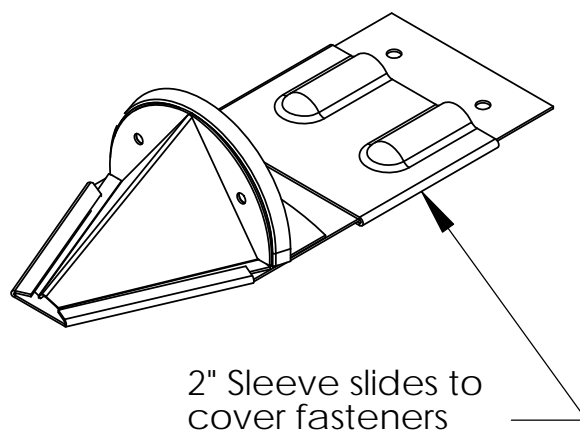
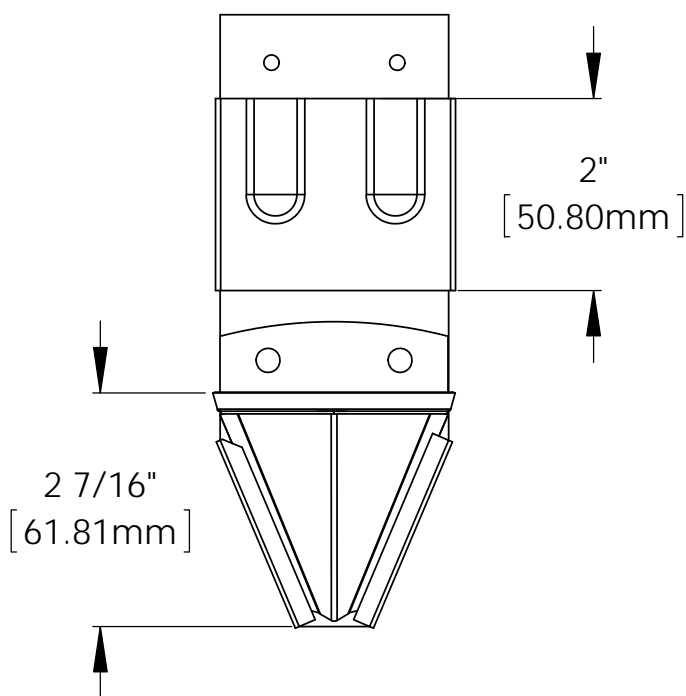
1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject to change without notice.
6. Aluminum half-round pad-style snow guards will have a third button connecting the pad to the strap.
7. For patent information, visit our [Patent Page](#).

Available Materials

- | | |
|--|--|
| <input type="checkbox"/> Aluminum | <input type="checkbox"/> Galvalume® |
| <input type="checkbox"/> Copper | <input checked="" type="checkbox"/> Lead-Coated Copper |
| <input type="checkbox"/> Freedom Gray™ | <input type="checkbox"/> Rheinzink® |

Available Finishes

- | |
|---|
| <input type="checkbox"/> Mill Finish (Standard) |
| <input type="checkbox"/> Pre-Painted Aluminum
(Firestone UnaClad Kynar Color: _____) |
| <input type="checkbox"/> Powder Coated
(Tiger Drylac RAL# _____) |



289 Harrel Street
Morrisville, VT 05661
Phone: 1.888.766.4273
Fax: 1.888.766.9994
Email: Info@alpinesnowguards.com

Scale: 1:2

8/1/2020

DOUBLE HUNG

OPERATING | STUDIO



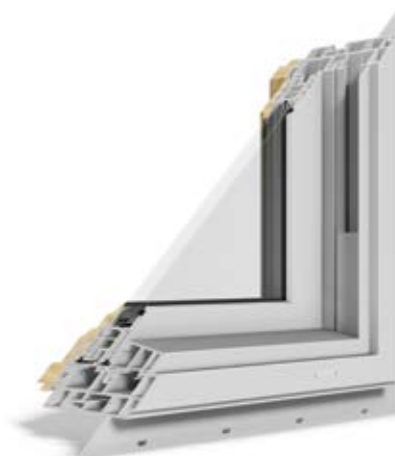
DOUBLE HUNG STANDARD FEATURES

- ▶ Constructed of multi-chambered Glastra extrusions that provide energy efficiency, enhance strength, and reduce the intrusion of outside noise
- ▶ Welded Glastra frame and sash corners help prevent the infiltration of water and air while also providing greater structural integrity and secure joints
- ▶ Glastra exterior with Cloud or Sahara integral color (*see pg. 56*)
- ▶ Unfinished pine interior with no visible fasteners and no wood exposed to the exterior environment
- ▶ Overall jamb width is 4-9/16" (*New Construction*)
- ▶ Energy efficient, insulating LoE²-270 glass
- ▶ Equal glass sizing provides matching sight lines from sash to sash
- ▶ Dry glazed to the interior with beveled glazing bead
- ▶ Wood glazing bead receptor designed for performance and ease of finishing
- ▶ Accessory grooves are integral to the extruded frames for the easy addition of accessories
- ▶ Full frame insect screen with BetterVue[®] fiberglass mesh
- ▶ Stainless steel, constant force balance system provides durability and ease of operation
- ▶ Clay-colored sash lock and tilt latches
- ▶ Integral 1-1/4" nailing fin provides easier installation and helps seal the window opening (*New Construction*)
- ▶ Convection barrier for improved energy performance

NOTE: All measurements are nominal.



GLASTRA/WOOD
NEW CONSTRUCTION DOUBLE HUNG
(interior)

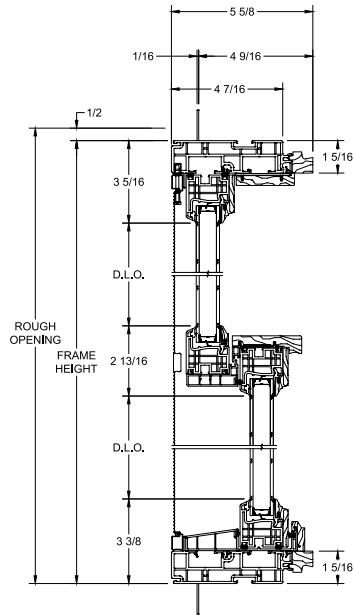


GLASTRA/WOOD
NEW CONSTRUCTION DOUBLE HUNG
(exterior)

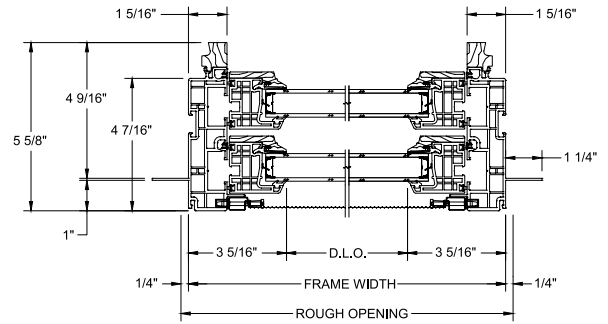
DOUBLE HUNGS | Cross Section Drawings

NEW CONSTRUCTION DOUBLE HUNGS – GLASTRA/WOOD

Vertical Section

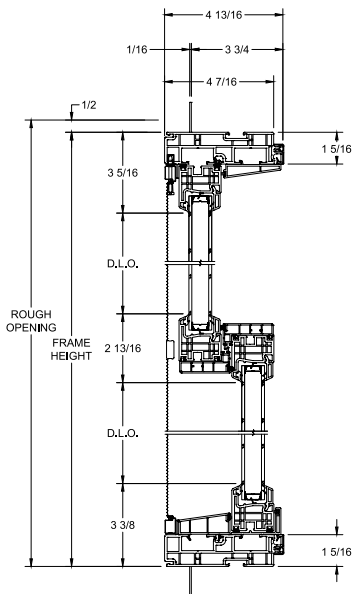


Horizontal Section

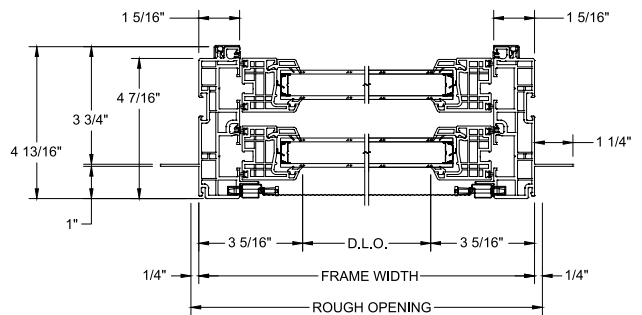


NEW CONSTRUCTION DOUBLE HUNGs – ALL GLASTRA

Vertical Section



Horizontal Section



NOTE: Drawings are not to scale. For Forgent accessory drawings, see pg. 59. Additional and the most current drawings are available at kolbewindows.com

CASEMENTS & AWNINGS

OPERATING | PICTURE



CASEMENT & AWNING STANDARD FEATURES

- ▶ Constructed of multi-chambered Glastra extrusions that provide energy efficiency, enhance strength, and reduce the intrusion of outside noise
- ▶ Welded Glastra frame and sash corners help prevent the infiltration of water and air while also providing greater structural integrity and secure joints
- ▶ Glastra exterior with Cloud or Sahara integral color (*see pg. 56*)
- ▶ Unfinished pine interior with no visible fasteners and no wood exposed to the exterior environment
- ▶ Overall jamb width is 4-9/16"
- ▶ Energy efficient, insulating LoE²-270 glass
- ▶ Dry glazed to the interior with beveled glazing bead
- ▶ Wood glazing bead receptor designed for performance and ease of finishing
- ▶ Accessory grooves are integral to the extruded frames for the easy addition of accessories
- ▶ Insect screen with BetterVue[®] fiberglass mesh Clay-colored folding handle, operator cover, and locking levers
- ▶ Multi-point locking system
- ▶ Integral 1-1/4" nailing fin provides easier installation and helps seal the window opening
- ▶ Convection barrier for improved energy performance
- ▶ Box-to-box standard mullion (*see pg. 12*)

NOTE: All measurements are nominal.



**GLASTRA/WOOD
CASEMENT**
(interior)

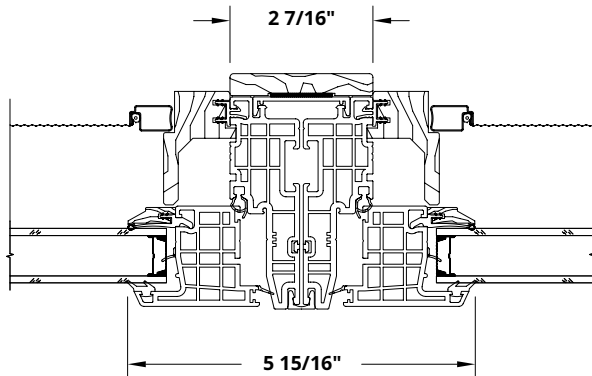


**GLASTRA/WOOD
CASEMENT**
(exterior)

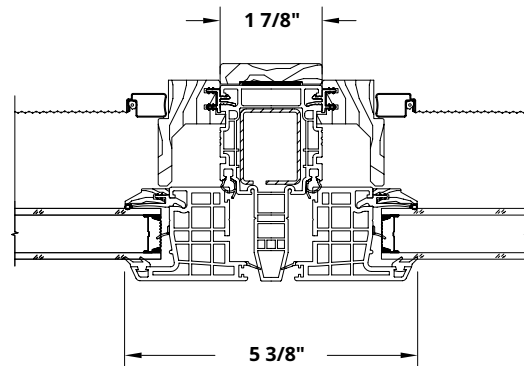
CASEMENTS & AWNINGS | Cross Section Drawings

CASEMENTS & AWNINGS – GLASTRA/WOOD

Standard Mullion
(Flush)

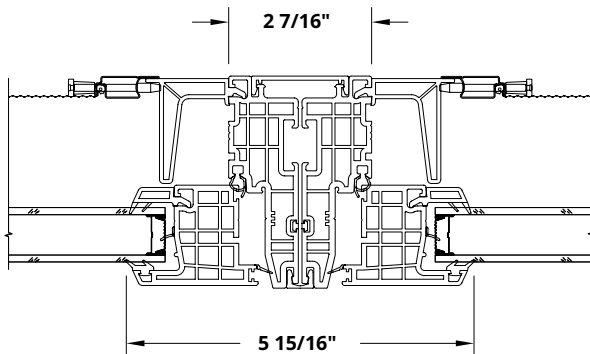


Integral Mullion

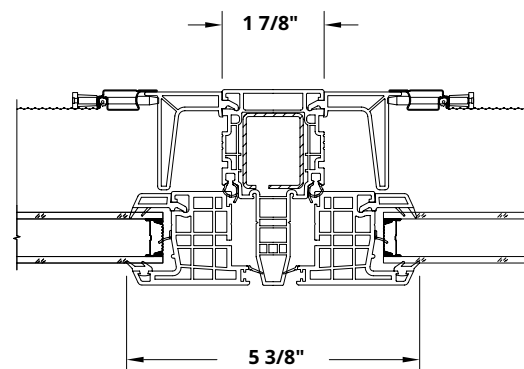


CASEMENTS & AWNINGS – ALL GLASTRA

Standard Mullion
(Flush)



Integral Mullion



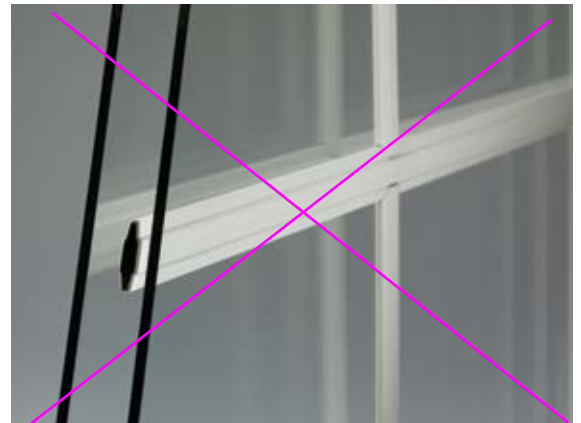
NOTE: Drawings are not to scale. For Forgent accessory drawings, see pg. 59. Additional and the most current drawings are available at kolbewindows.com

DIVIDED LITE OPTIONS

Forgent Series windows and doors are available with two types of divided lites: performance divided lites and grilles-in-the-airspace.

PERFORMANCE DIVIDED LITES

Kolbe's performance divided lite (PDL) glazing system gives the appearance of true divided lites without sacrificing energy efficiency. Extruded aluminum bars are adhered to the exterior of Forgent Series windows and doors. Unfinished pine bars are adhered to the interior of the single lite of insulating glass on Glastra/Wood units, while aluminum bars are adhered to the interior of All Glastra units. Aesthetically pleasing spacer bars are installed within the insulating glass unit. Together, these bars create the illusion of true divided lites. PDL bars are available in 7/8" or 2-1/4" bar widths. The exterior finish of the aluminum bars will match the exterior finish of the unit. Some designs may have a composite material for the exterior PDL bar. Bars have a beveled profile. Limited lite patterns are available.



GRILLES-IN-THE-AIRSPACE

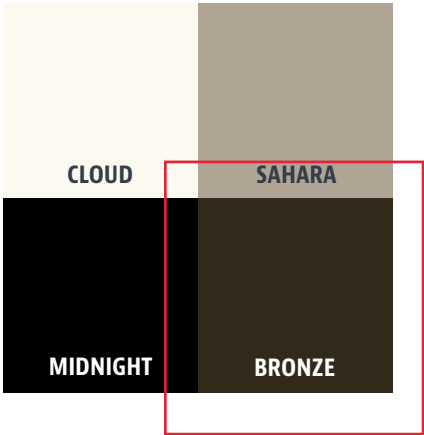
Grilles-in-the-airspace are constructed with aluminum bars sealed between two panes of insulating glass, offering the look of divided panes while reducing cleaning time.



FINISH OPTIONS

EXTERIOR FINISHES

Forgent Series windows and doors have a durable and resilient Glastra exterior. Cloud and Sahara are integral to the Glastra material, while Midnight and Bronze are applied as an acrylic film.



INTERIOR FINISHES - ALL GLASTRA UNITS

Coordinating finishes are available for Glastra interiors; however, the Midnight or Bronze interior finish is only available on units with a Glastra Midnight or Bronze exterior, respectively.



NOTE: Midnight and Bronze exteriors are only available on All Glastra units. Ask your Kolbe dealer for details.

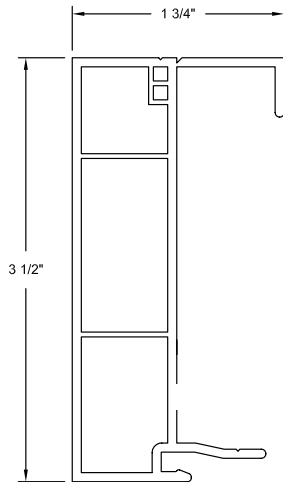
†Only available on products with Midnight exteriors.
††Only available on select products with Bronze exteriors.



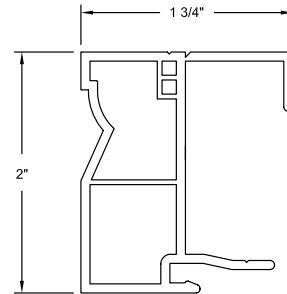
EXTERIOR ACCESSORIES

OPTIONAL EXTERIOR ACCESSORIES

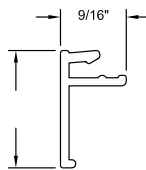
3-1/2" Flat Casing



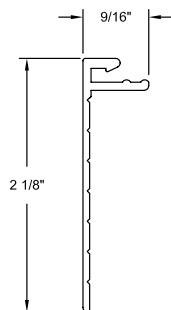
2" Brickmould



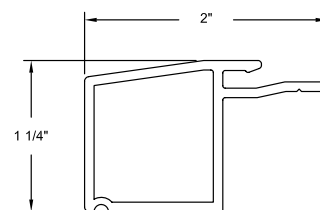
J-Channel



Frame Expander

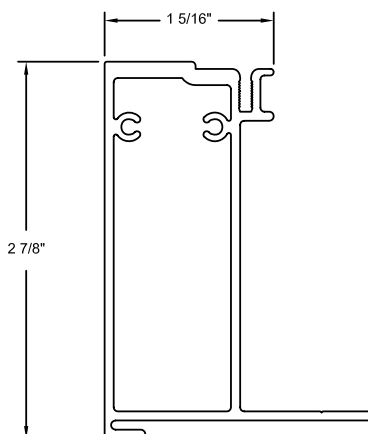


Sill Nosing

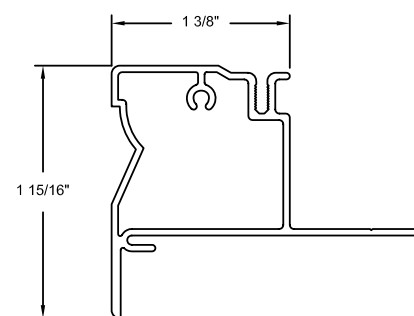


OPTIONAL EXTERIOR ACCESSORIES FOR DOORS THAT COMPLEMENT GLASTRA/WOOD UNITS

3-1/2" Flat Casing



2" Brickmould



NOTE: Drawings are not to scale. Additional and the most current drawings are available at kolbwindows.com



88241-12: Medium One Light Outdoor Wall Lantern



Collection: Cape May

One Light Wall Lantern in Black Finish with Etched / White Inside Glass Shade

UPC #:785652079016

Finish: Black (12)

Dimensions:

Width:	9"	Extends:	10"
Height:	15 1/2"	Wire:	6 1/2" (color/Black/White)
Weight:	3.6 lbs.	Mounting Proc.:	Cap Nuts
		Connection:	Mounted To Box

Bulbs:

1 - Medium A19 100w Max. 120v - Not included

Features:

- Easily converts to LED with optional replacement lamps
- Meets Title 24 energy efficiency standards
- Title 24 compliant if used with Joint Appendix (JA8) approved light bulbs listed in the California Energy Commission Appliance database.

Material List:

1 Body - Aluminum - Black

Safety Listing:

Safety Listed for Wet Locations

Instruction Sheets:

English (HC-1179)
French (F-010)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Etched / White Inside	1				8 11/32	6 15/16				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Back Plate	7 1/16	4 1/2	1		4 1/2	

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Frt. Class	UPS Ship
Individual	88241-12	1	785652079016	17.25	11.75	12.25	1.437	5.4	250	Yes
NJ Pallet		48		48	40	75	83.333	259.2		No
NV Pallet		48		48	40	75	83.333	259.2		No



6250701-71: One Light Outdoor Pendant



Collection: Calder

UPC #:785652056406

Finish: Antique Bronze (71)

Dimensions:

Diameter: 10"

Height: 16 1/8"

Weight: 5.7 lbs.

Overall Height: 54"

Wire: 120" (color/Brown)

Chain: 36"

Mounting Proc.: Center Lock-Up

Connection: Mounted To Box

Bulbs:

1 - Medium A19 75w Max. 120v - Not included

Features:

- Easily converts to LED with optional replacement lamps
- Meets Title 24 energy efficiency standards
- Title 24 compliant if used with Joint Appendix (JA8) approved light bulbs listed in the California Energy Commission Appliance database.
- Supplied with wire pre-laced through chain

Material List:

1 Body - StoneStrong - Antique Bronze

1 Chain - Steel - Antique Bronze

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990P6250701-CLR)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Satin Etched	1	G560301-619			8 5/8	7 1/2				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	1			5		

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	6250701-71	1	785652056406	21	13	20.75	3.278	7.6	250	Yes
NJ Pallet		35		48	40	70.5	78.333	266		No
NV Pallet		35		48	40	70.5	78.333	266		No

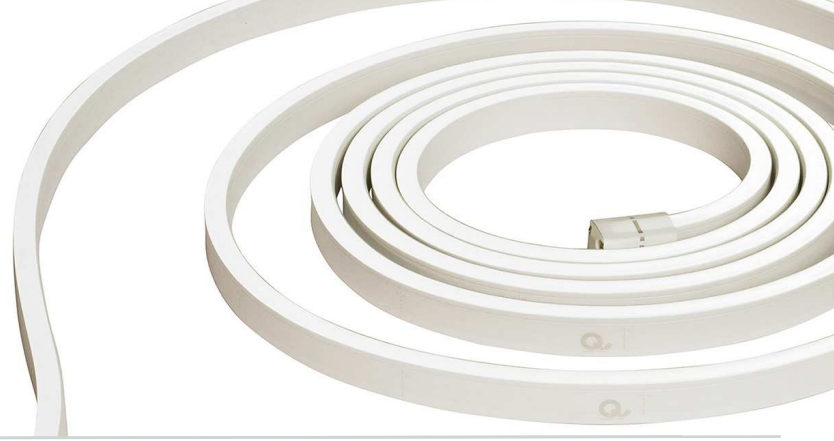


JAAW-30

FLEX SERIES IP67

FLEX MINI

WET RATED



The FLEX Series is the ideal LED for architectural spaces where the light will be in direct view. As the name implies, these LED lights are flexible and can be easily molded into different curvatures. The enclosure and the lens allow for a perfect monochromatic light source with no hot spots. All of Q-Tran's FLEX Series lights are made with high quality SMD LED chips, are UV and flame resistant, and are extremely energy efficient. The FLEX Mini is available in white in a variety of different color temperatures; 2700K, 3000K, 3500K, 4000K. Perfect replacement for glass Neon such as indoor, outdoor, signage, & architecture.

iQ67 - 30 - FLM - 80 - 1.4 - 30
iQ series Color Temp Flex series CRI Watts Per FT Length

iQ67-27-FLM-80-1.4

Max Run / Reel Length: 30ft | Color Temp: 2700K | Voltage: 24VDC
CRI: 80+ | Watts Per Ft: 1.4 | FLM=Flex Mini

iQ67-30-FLM-80-1.4

Max Run / Reel Length: 30ft | Color Temp: 3000K | Voltage: 24VDC
CRI: 80+ | Watts Per Ft: 1.4 | FLM=Flex Mini | Lumens per foot: 54

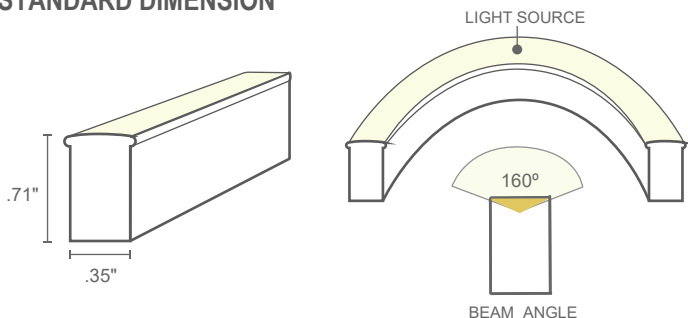
iQ67-35-FLM-80-1.4

Max Run / Reel Length: 30ft | Color Temp: 3500K | Voltage: 24VDC
CRI: 80+ | Watts Per Ft: 1.4 | FLM=Flex Mini

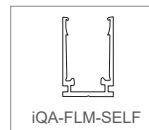
iQ67-40-FLM-80-1.4

Max Run / Reel Length: 30ft | Color Temp: 4000K | Voltage: 24VDC
CRI: 80+ | Watts Per Ft: 1.4 | FLM=Flex Mini

STANDARD DIMENSION



COMPATIBLE EXTRUSIONS



FEATURES

- IK08 rated
- High quality SMD LED chip
- Ambient temperature: -4°F ~ +113°F
- UV & Flame resistant construction
- Uniform & Even light source w/no LED "hotspots"
- 3.54" min. bending diameter
- Run lengths up to 60 feet*

*For runs greater than 30 feet, 2 independent 100W drivers are required. One powering and wired to each end.

- Environmentally friendly & energy efficient
- 2 year warranty

NOTE: The warranty only valid if compatible power supplies used.

COMPATIBLE POWER SUPPLIES

Interior Applications

- Q6M-DC+CAP
- QTM-eLED, QTM-DC+CAP
- iQ-PH

Exterior Applications

- QOM-eLED, QOM-DC+CAP
- Q-SET-eLED
- iQ-PH

CUTTING INSTRUCTIONS:

This flex light can be cut on the dotted line mapped on the unit at every 3.28".

Lead wire comes in 11.5" (18/2 AWG)



2019 0606 - V01

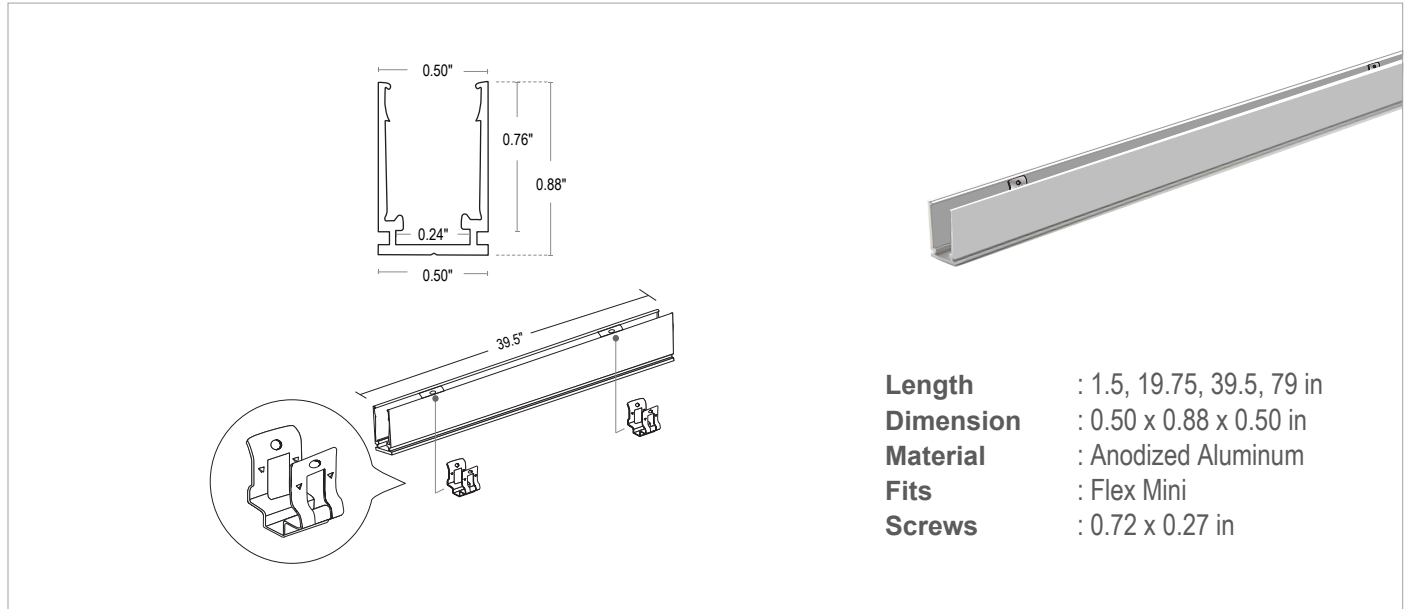
PROJECT NAME	DATE	COMPANY	TYPE	NOTE



FLEX SERIES IP67

COMPATIBLE EXTRUSIONS

iQA-FLM-SELF: Self-locking aluminum profile (Used with clip)



The Brightest Idea is Emergency Lighting with LEDs

GENERAL DESCRIPTION

Operating in emergency mode or optional normal- on, this fixture is designed to mount directly on structural mullion beams used in typical glass-fronted entrances, with vertical surface as small as 2". This fixture has full 90° cut-off and will provide efficient emergency lighting in front of egress doorways, or along extended pathways.

CONSTRUCTION

- Rugged extruded aluminum housing with stainless hardware is corrosion proof.
- Wet location listed UL 924. Certified IP66.
- Uniform, high brightness lighting over the path of egress.
- Full 90° cut- off.
- Three versions are available:

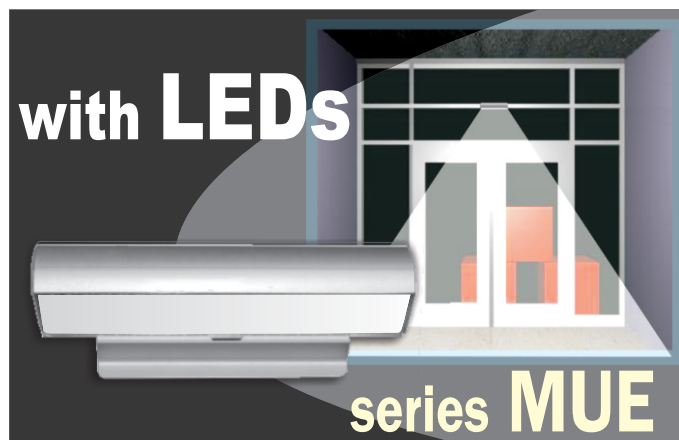
RE= Central Battery System Series CBS or other qualified source 12V- 24 VDC.

BB= Battery backup from Remote Battery Supply Series RPS.

AC= 120/ 277 VAC supply.

ELECTRONICS

- Dual operation from either a battery or optional normally on power source.
- Lamps are connected in parallel-series strings, as required to meet requirements of NEC and Life Safety Codes. Lighting continues even after failure of One lamp or circuit.
- LED color temperature standard 5300K; available color temperatures from 2900K, 3200K, to 3800K.



ENERGY EFFICIENT OPERATION

- Dual function operation for optional normally on night or security lighting as well as emergency lighting.
- Very low power consumption in optional night/ security mode. The security lighting circuit is independent of emergency lighting and may be switched manually, by an exterior photocell, or other automatic means.
- Over 50,000 hour lamp life in normal use.
- IES photometric data available for all models.

CODES

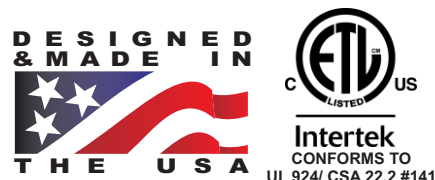
- Manufactured and tested to UL Standard 924 and NFPA Life Safety Code 101.

WARRANTY

- 5 year total customer satisfaction warranty. For Details see product catalog technical data section.

FIXTURE SCHEDULE

MODEL	CATALOG NO
APPROVAL	JOB INFORMATION

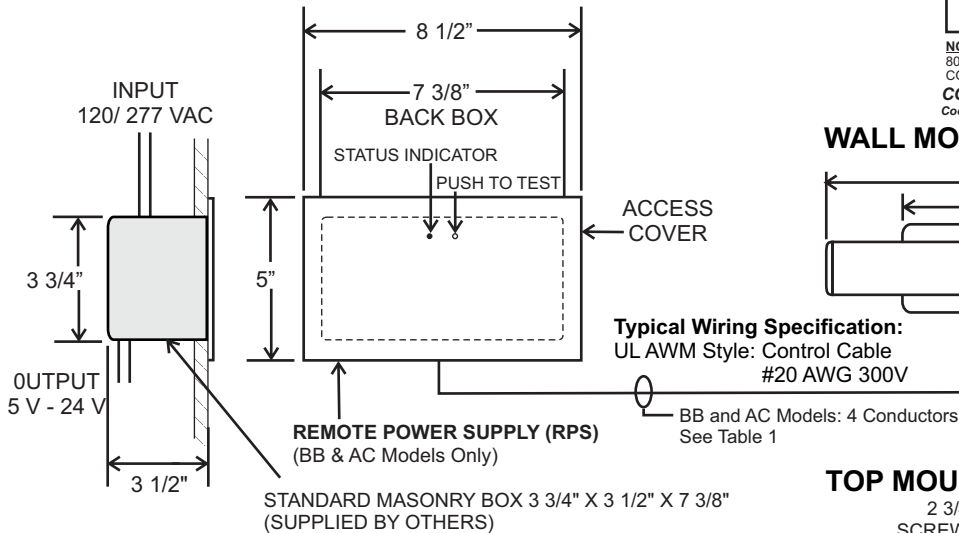


Moonlite LED® Mullion Mount Emergency Light Series MUE

SUGGESTED SPECIFICATIONS:

Supply and install the MOONLITE LED Series MUE Mullion Mount emergency lighting fixture manufactured by Sigtex Lighting Inc. The MUE assembly shall be listed for installation in wet locations in compliance with UL 924 and IP66 standards and shall be capable of operating from Sigtex remote power supply Series RPS, the Sigtex central battery system CBS, or from other remote power sources supplying 12-24 VDC or VAC. Upon loss of AC building power, emergency models shall operate for a minimum of 90 minutes in compliance with UL Standard 924 and NFPA LSC 101.

MOUNTING DATA & DIMENSIONS:



TYPICAL STOCK MODELS:
CROUSE HINDS #TP693
RACO # 698

TABLE 1
MAXIMUM WIRING LENGTH
FROM RPS TO FIXTURE

WIRING SIZE AWG	LENGTH (FT) MUEBB
#18	25
#16	50
#14	75
#12	125

LENGTH TABLE

POWER	L
10 Watts	10"
20 Watts*	19"

*RE & AC Models Only

SECURITY LIGHTING CONTROL

RE Models: Requires SEC Option 'S' with CBL
BB Models: Requires Option '-SB120' for connection to 120 VAC
Requires Option '-SD277' for connection to 277 VAC
BB-DG Models: Requires Option '-SD' for connection to 120/ 277 VAC

RPS SELF-TEST DIAGNOSTIC FUNCTIONS BB MODELS WITH DG FUNCTION

STATUS	LED DISPLAY
NORMAL FULL CHARGE	GREEN ON
NORMAL FAST CHARGE	ORANGE ON
FAILED BATTERY	RED FLASH FAST
FAILED LAMP	GREEN FLASH
FAILED TRANSFER	ORANGE FLASH
FAILED CHARGER	RED FLASH SLOW

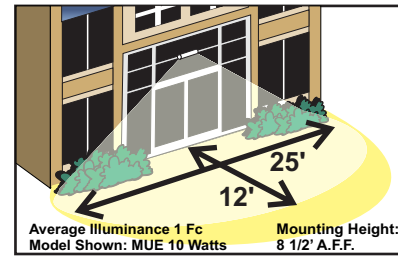
FIXTURE ORDERING INFORMATION: EXAMPLE: MUEBB10AW-DG

MUE	BB	10	A	W	-DG
MODEL SERIES	OPERATION	POWER	HOUSING COLOR	MOUNT	OPTIONS
MUE	RE= Central Battery or other 12- 24 VDC Remote Source BB= Battery Backup (Includes RPS) AC= No Battery (Includes RPS)	10= 10 Watts Emergency & Normal On Power 20= 20 Watts Emergency & Normal On power (RE & AC Models Only)	W= Satin White A= Aluminum B= Dark Bronze X= Custom	T= Top W= Wall	DG= Self- Test Diagnostics (BB Models Only) SB120= Security Lighting with Control Switch for Standard BB Operation (120V) SD277= Security Lighting with Control Switch for Standard BB Operation (277V) SD= Security Lighting with Control Switch for BB Operation with DG option (120/ 277V) CW1= Custom Window Filter- 3800K CW2=Custom Window Filter- 3200K CW3=Custom Window Filter- 2900K DAC= Dual AC Input 2HT= 2" Canopy Height 5HT= 5" Canopy Height

SUITABLE FOR WET LOCATIONS
AMBIENT TEMPERATURE LIMITS:
-40° C to +50° C

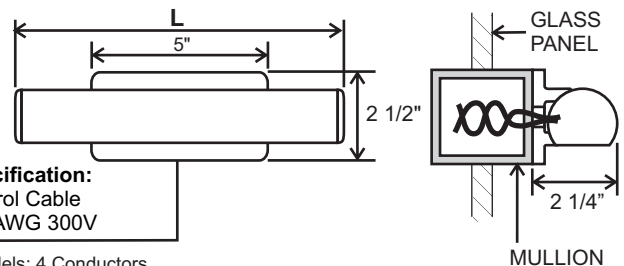
SPACING GUIDE

MUE.5.18.15

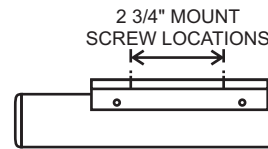


NOTE: FOR REFERENCE ONLY. STANDARD REFLECTANCES 80/50/20. SIGTEX IS NOT RESPONSIBLE FOR SPECIFIC CONDITIONS THAT MAY ALTER THE RESULTS.
CONTACT SIGTEX FOR LAYOUT ASSISTANCE
Code Compliant Emergency lighting layouts provided free of charge!

WALL MOUNT



TOP MOUNT



DISTRIBUTOR:

Specifications and Dimensions subject to change without notice.