

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

The existing property has a single family home and a detached garage. The scope of work is limited to the garage. The garage sits at the rear of the lot. It is finished with painted wood siding and a slate roof. The existing overhead door has a person door incorporated within it.

Description of Work Proposed: Please give an overview of the work to be undertaken:

The scope of work includes renovating the garage, replacing deteriorating siding with new painted Hardie Plank siding, new shed roof dormer, new roofing, new overhead door with incorporated person door, and new gable end windows. The scope also includes a new covered wood bin on the side of the garage at an existing raised planter.

Siding and Windows / Doors	
Work Item 1: _____	
<p>Description of Current Condition:</p> <p>The existing painted wood bevel siding, painted wood trim, single pane wood windows, and existing painted wood overhead door with incorporated person door are all in poor condition.</p>	<p>Proposed Work:</p> <p>Replace deteriorating wood siding and trim with new painted Hardie Plank siding and Boral synthetic trim, to replicate existing sizes and profiles. New clad wood windows with simulated divided lites to replace existing (style and size to match existing windows). New fiberglass overhead garage door with incorporated person door to replace existing.</p>

Dormer and Roof	
Work Item 2: _____	
<p>Description of Current Condition:</p> <p>The existing slate roof is in poor condition.</p>	<p>Proposed Work:</p> <p>Replace existing slate shingle roof with new synthetic slate roofing. Add new dormer with metal shed roof at side of garage, with Boral 5/4x battens over Hardie Panel boards at vertical surfaces, to match existing main house rear addition.</p>

Covered Wood Bin	
Work Item 3: _____	
<p>Description of Current Condition:</p> <p>There is an existing raised planter at the side of the garage with timber retaining walls.</p>	<p>Proposed Work:</p> <p>Install new P.T. posts with P.T. beam and rafters and new metal roof to create covered, open, firewood storage at the existing planter.</p>

**HISTORIC AREA WORK PERMIT
CHECKLIST OF
APPLICATION REQUIREMENTS**

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Excavation/ Landscaping	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

TRUNK GARAGE RENOVATION

7818 Overhill Road, Bethesda, MD 20814 Project #2555

HISTORIC AREA WORK #1155067

PROJECT DESCRIPTION

SCOPE OF WORK INVOLVES THE RENOVATION OF AN EXISTING DETACHED GARAGE FOR A SINGLE FAMILY HOME. WORK INCLUDES NEW SHED ROOF DORMER, NEW STAIR TO LOFT SPACE, REPLACEMENT OF FINISHES, NEW DOORS AND WINDOWS TO REPLACE EXISTING, AND A NEW COVERED WOOD BIN AT EXISTING RAISED PLANTER.

EXISTING SITE PHOTOS

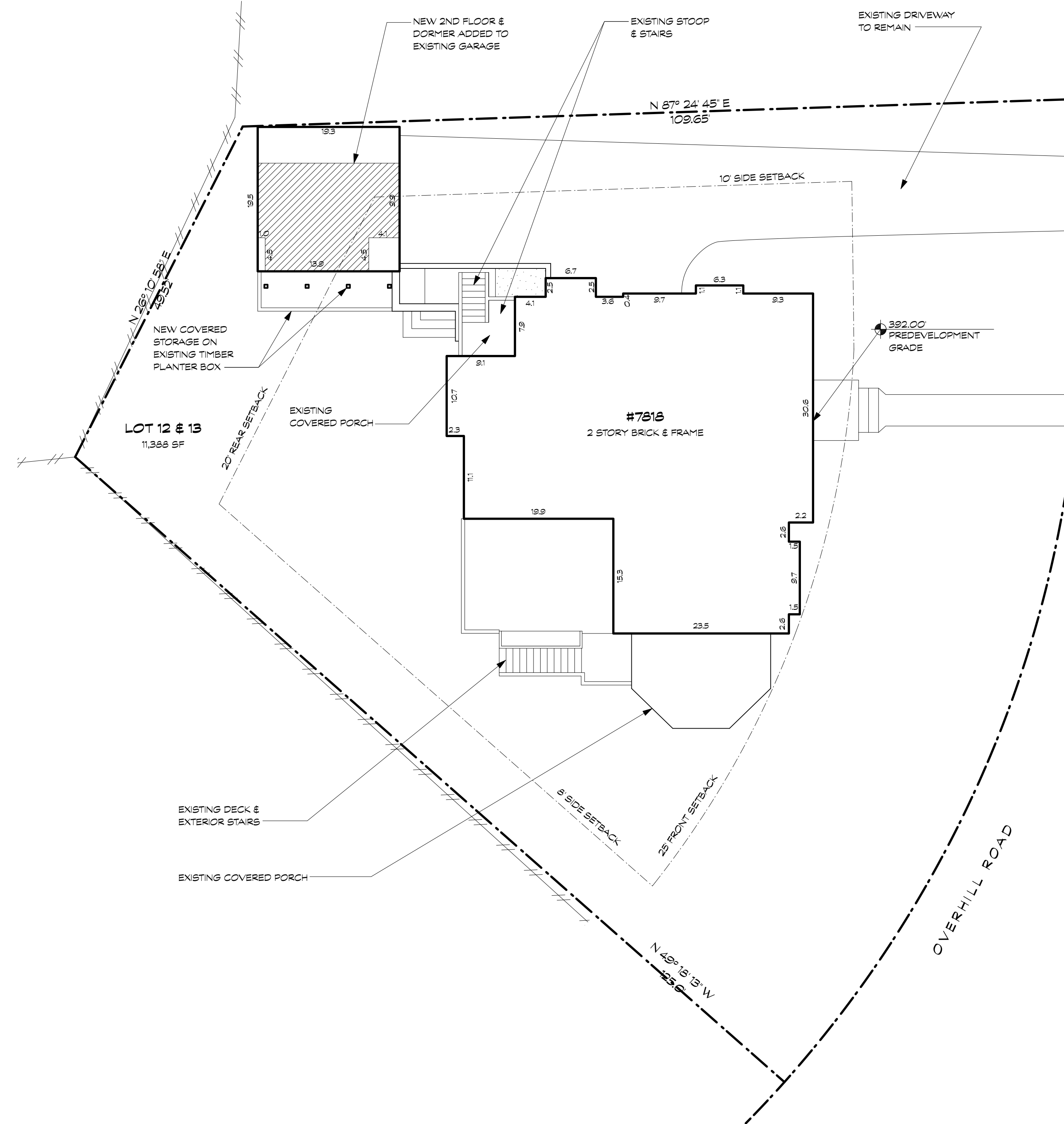


ZONING SITE PLAN

SCALE: 1" = 10'-0"

SITE PLAN BASED ON HORIZONTAL/BOUNDARY INFORMATION FROM HOUSE LOCATION PLAN BY SNIDER & ASSOCIATES DATED 12/16/2016 & FIELD OBSERVATIONS BY BENNETT FRANK MCCARTHY ARCHITECTS, INC.

LOTS 12 & 13
BLOCK U
SECTION 4
PLAT BOOK 4
PLAT NO. 376



BFM architecture

1400 Spring Street, Suite 320
Silver Spring, MD 20910-2755
Tel: 301.585.2222
bfmarch.com

OWNER

Bill & Allison Trunk
7818 Overhill Road
Bethesda, MD 20814

STRUCTURAL ENGINEER

Robert Wixson, APAC Engineering, Inc
8555 16th St, Suite 200
Silver Spring, Maryland 20910
(301) 565-0543

MECHANICAL CONSULTANT

Gallant Mechanical
13001 Cleveland Drive
Rockville, Maryland 20850
(240) 750-4988

DRAWING LIST

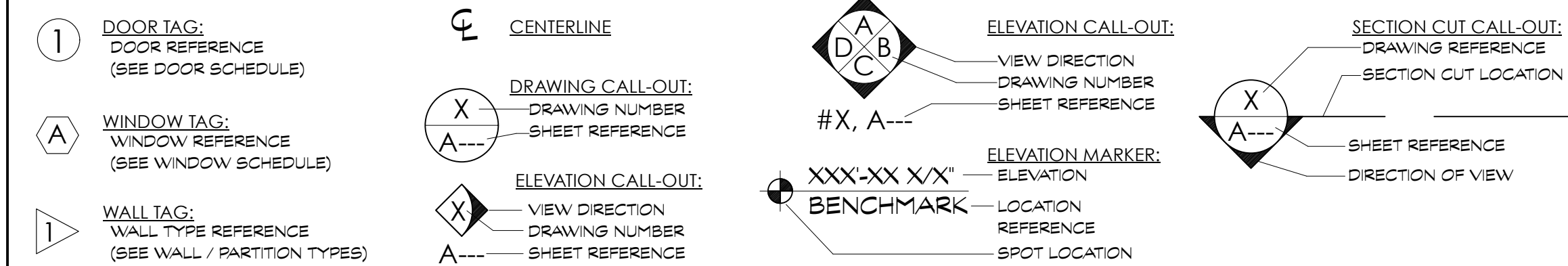
REV.	SHEET	TITLE
	A000	COVERSHEET
	D100	DEMOLITION PLANS & ELEVATIONS
	A100	GARAGE PLANS & ELEVATIONS

DATE	ISSUE	REV.
4/20/2026	HAWP SET	

ABBREVIATIONS

AND	CONC	CONCRETE	ELEV	ELEVATION	JB	JUNCTION BOX	OH	OPPOSITE HAND	SPRK	SPRINKLER
AT	CONT	CONTINUOUS	ELEC	ELECTRICAL	LB	LOAD BEARING WALL	OSB	ORIENTED STRAND BOARD	STL	STEEL
ABOVE FINISHED FLOOR	D	DRYER	EXP	EXPANSION	LVB	LOAD BEARING WALL	PLAM	PLASTIC LAMINATE	TBD	TO BE DETERMINED
APARTMENT	DH	DOUBLE HUNG	EQ	EQUAL	LVL	LAMINATED VENEER LUMBER	PLYWD	PLYWOOD	TEMP	TEMPER
BUILDING	DIA	DIAMETER	ETR	EXISTING TO REMAIN	MARB	MARBLE	PT	PRESSURE TREATED	TES	TONGUE AND GROOVE
BASMENT	DM	DIMENSION	EX	EXISTING	MATL	MATERIAL	R	RISER	TOS	TOP OF SLAB
CONTROL JOINT	DN	DOWN	FF	FINISH FLOOR	MAX	MAXIMUM	REF	REFRIGERATOR	TYP	TYPICAL
CABINET	DR	DOOR	FIN	FINISH	MDO	MEDIUM DENSITY OVERLAY	RO	ROUGH OPENING	UNO	UNLESS NOTED OTHERWISE
CENTER LINE	DS	DOWNSPOUT	FLR	FLOOR	MIN	MINIMUM	ROD	ROUGH OPENING	VERIF	VERIFY IN FIELD
CEILING	DTL	DETAIL	GA	GAUGE	MANU	MANUFACTURER	RM	ROUGH	W	WASHER
CLEAR	DW	DRAINWASHER	GWB	GYPSUM WALL BOARD	MTL	METAL	SC	SOLID CORE	W	WITH
CONCRETE MASONRY UNIT	DWG	DRAWING	HB	HOSE BB	MECH	MECHANICAL	SHT	SHEET	WC	TOILET / WATER CLOSET
CONDITION	EFS	EXTERIOR INSULATION FINISHING SYSTEM	HC	HOLLOW CORE	NIC	NOT IN CONTRACT	SHWR	SHOWER	WO	WOOD
	HT	HEIGHT	HW	HARDWARE	NTS	NOT TO SCALE	SIM	SIMILAR	W/O	WITHOUT
	HW	HARDWARE	OC	ON CENTER	SPEC	SPECIFICATION	SPEC	SPECIFICATION	W/M	WELDED WIRE MESH

SYMBOLS



PROJECT CODES & USES

JURISDICTION: District of Columbia
ZONE: R-1-8
BUILDING CODE: 2017 DC Construction Codes including: 2015 IRC & ICC Model Codes 2014 NEC & 12013 ASHRAE 90.1 As Amended by DCMR Title 12
BUILDING USE GROUP: Single Family, Detached
CONSTRUCTION TYPE: SB- Combustible, Unprotected
FIRE SUPPRESSION SYSTEM: N/A

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CERTIFICATION

License #: 15218
Expiration: 10/31/2027

#2555 TRUNK GARAGE

DATE	ISSUE - REMARKS
4/20/2026	HAWP SET

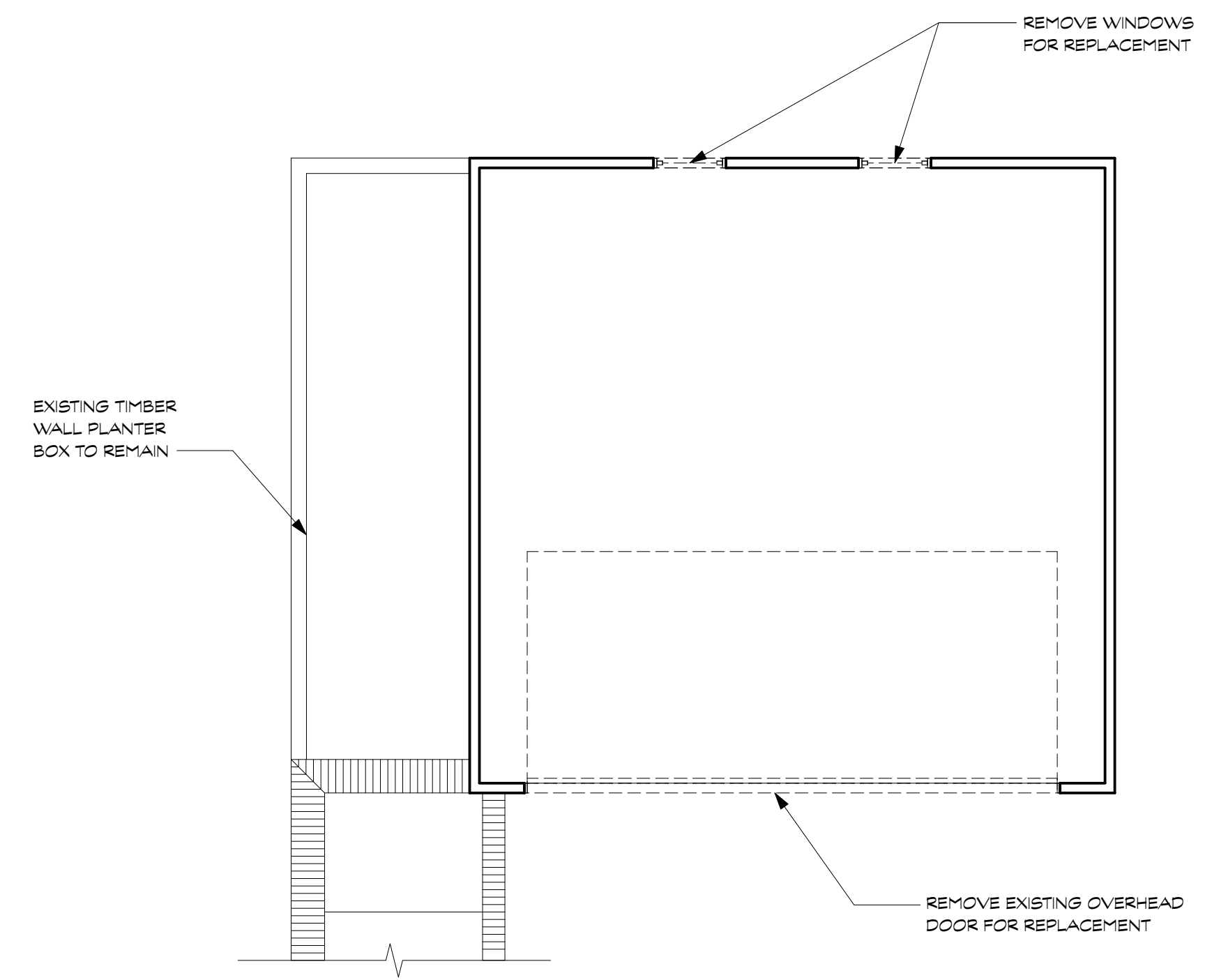
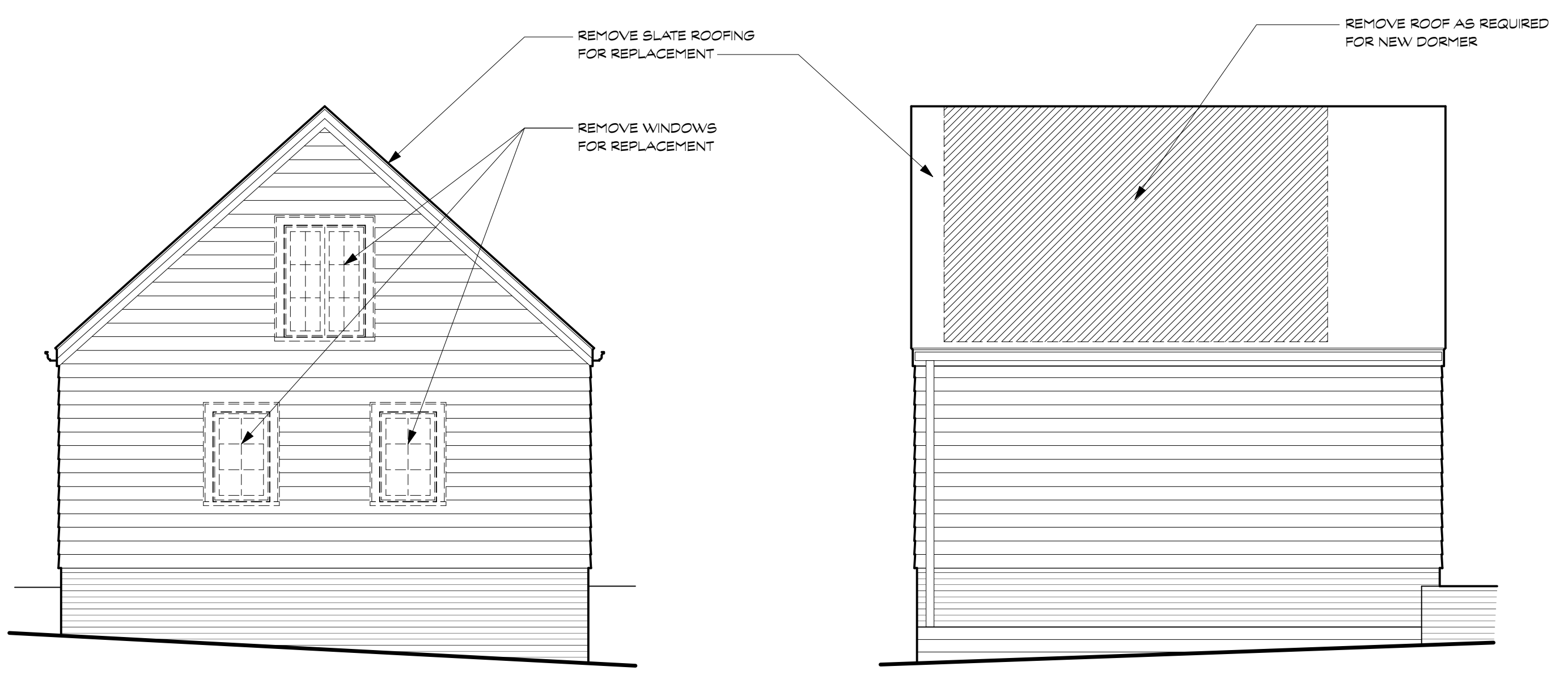
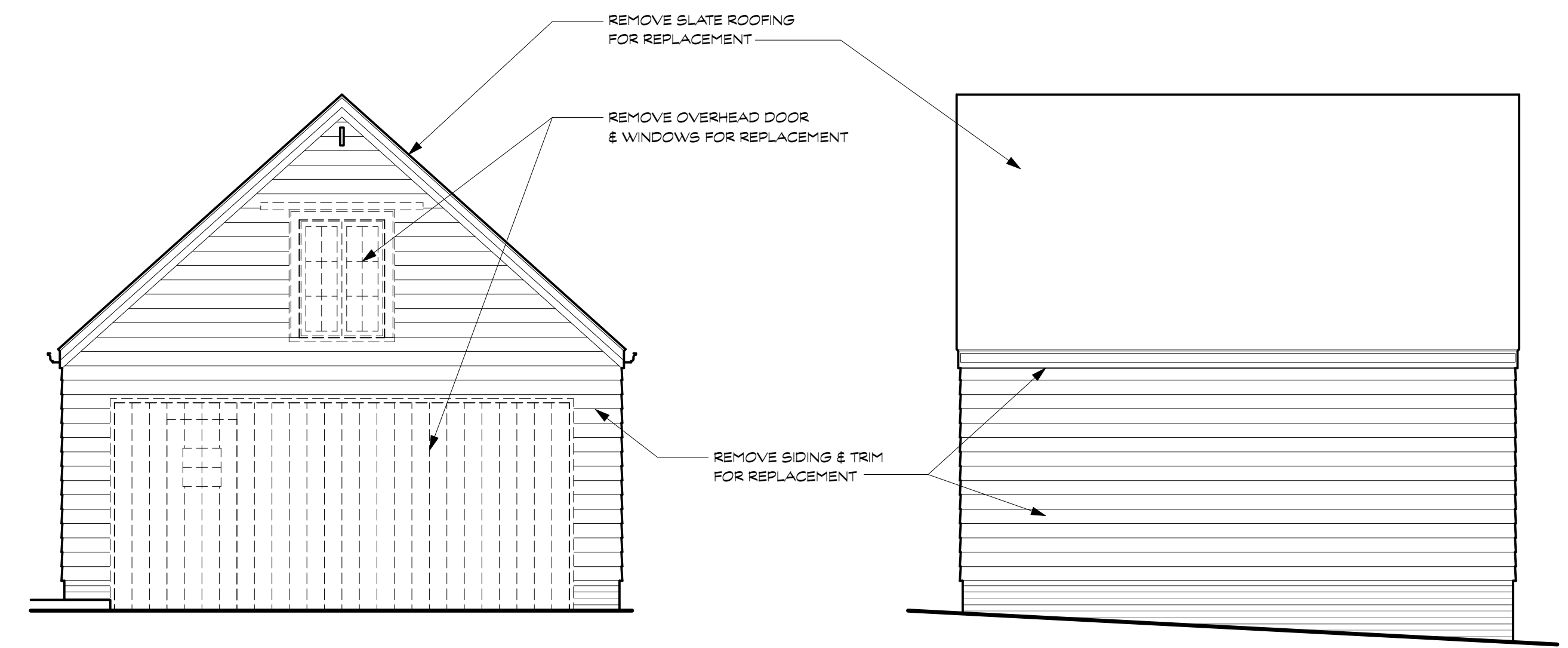
DS

I certify that these contract documents were prepared under my supervision or approved by me and I am a duly licensed registered architect under the laws of the state of Maryland.
License # : 15218
Expiration : 10/31/2027

WALL LEGEND

- EXISTING WALLS AND PARTITIONS TO REMAIN
- EXISTING WALLS AND PARTITIONS TO BE REMOVED
- NEW WOOD FRAMED WALLS AND PARTITIONS
- NEW LOW WALLS
- NEW CMU WALLS

- GENERAL NOTES:**
1. DO NOT SCALE THE DRAWINGS
 2. NEW CONSTRUCTION DIMENSIONED TO FRAMING (U.N.O)
 3. EXISTING CONSTRUCTION DIMENSIONED TO FINISH (U.N.O)



1 DEMOLITION PLAN
Scale: 1/4" = 1'-0"

2 DEMOLITION ELEVATIONS
Scale: 1/4" = 1'-0"

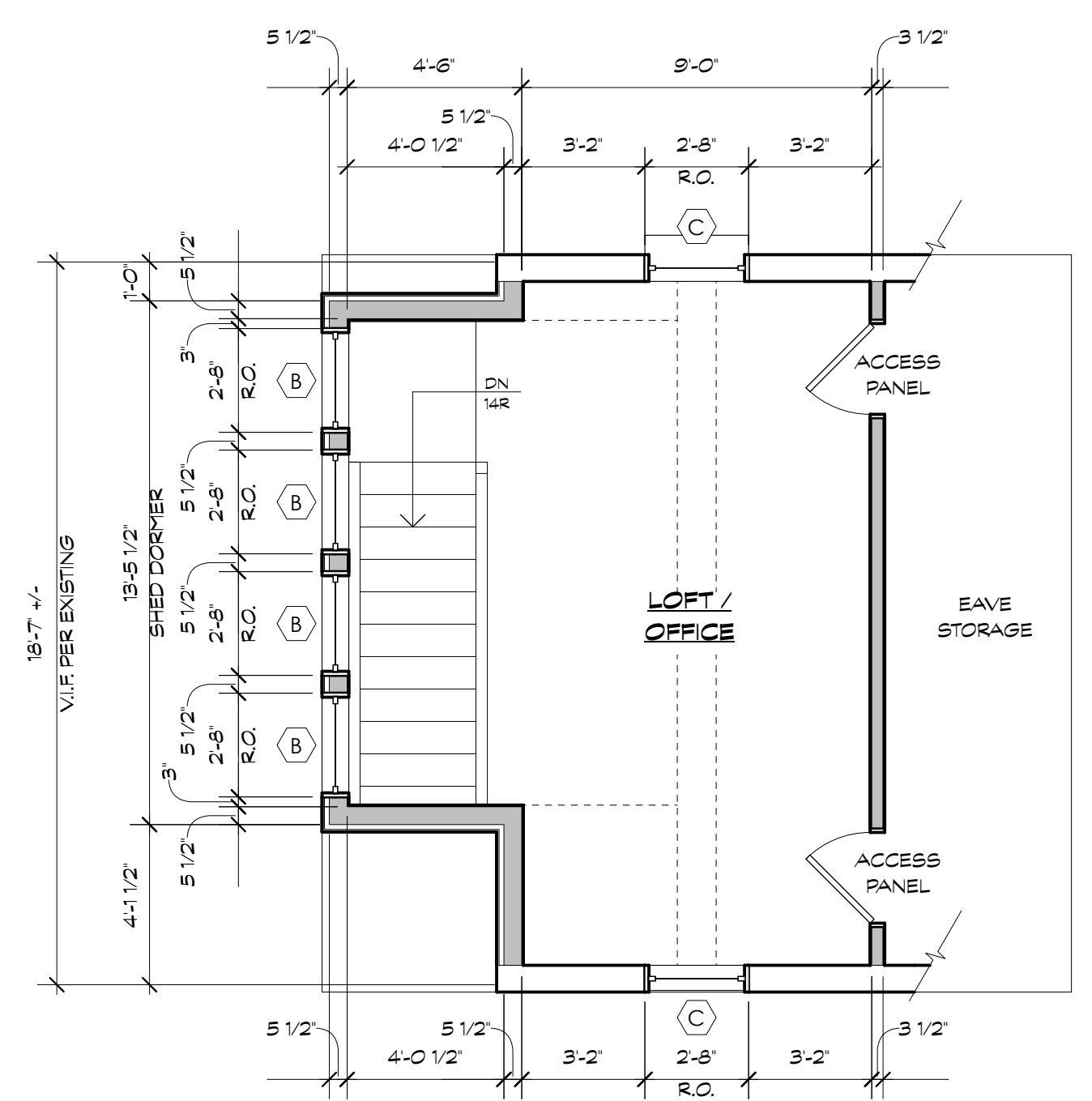
TRUNK GARAGE RENOVATION

7818 Overhill Road, Bethesda, MD 20814
Project #2555

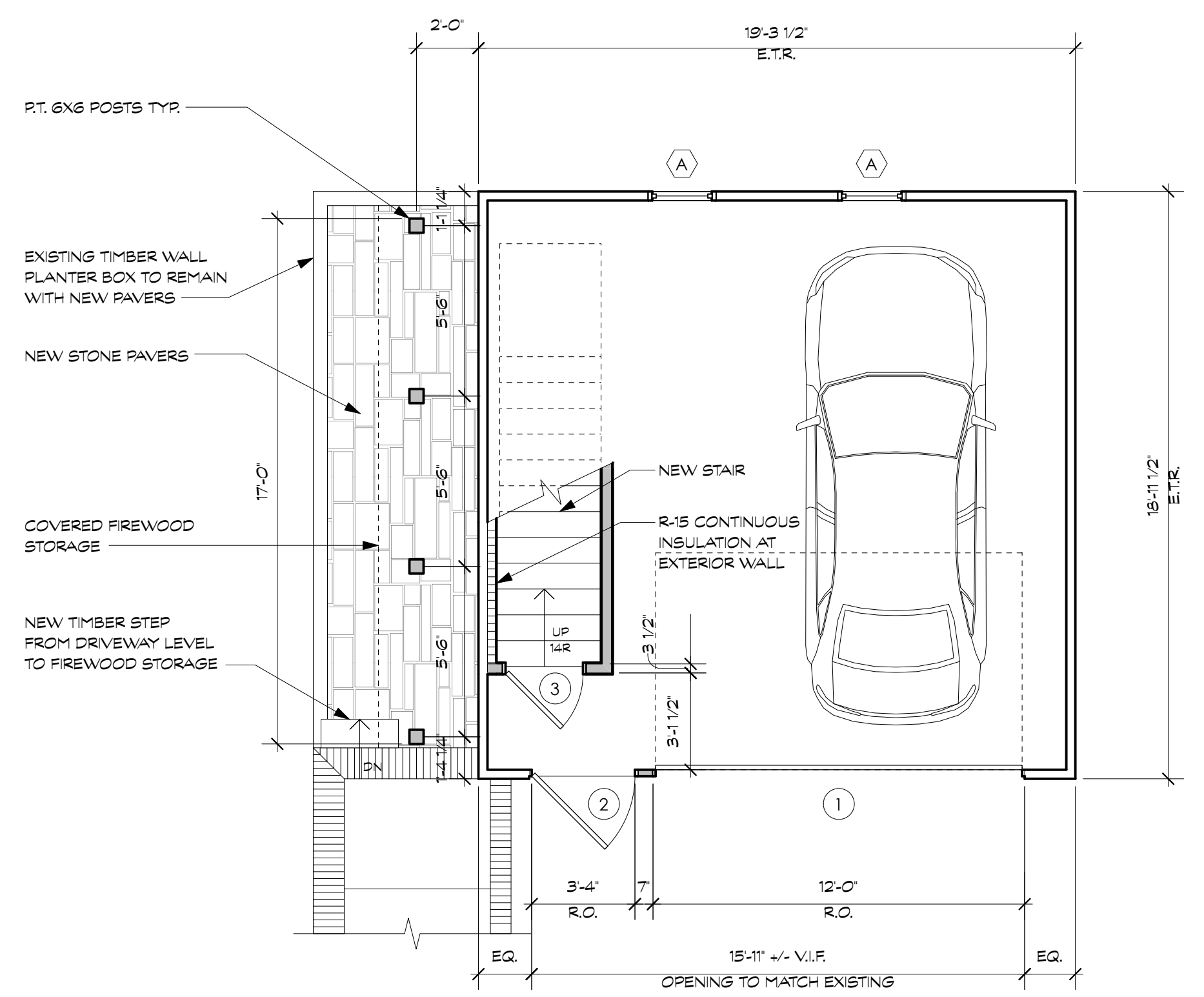
HAWP SET

20 APRIL 2026

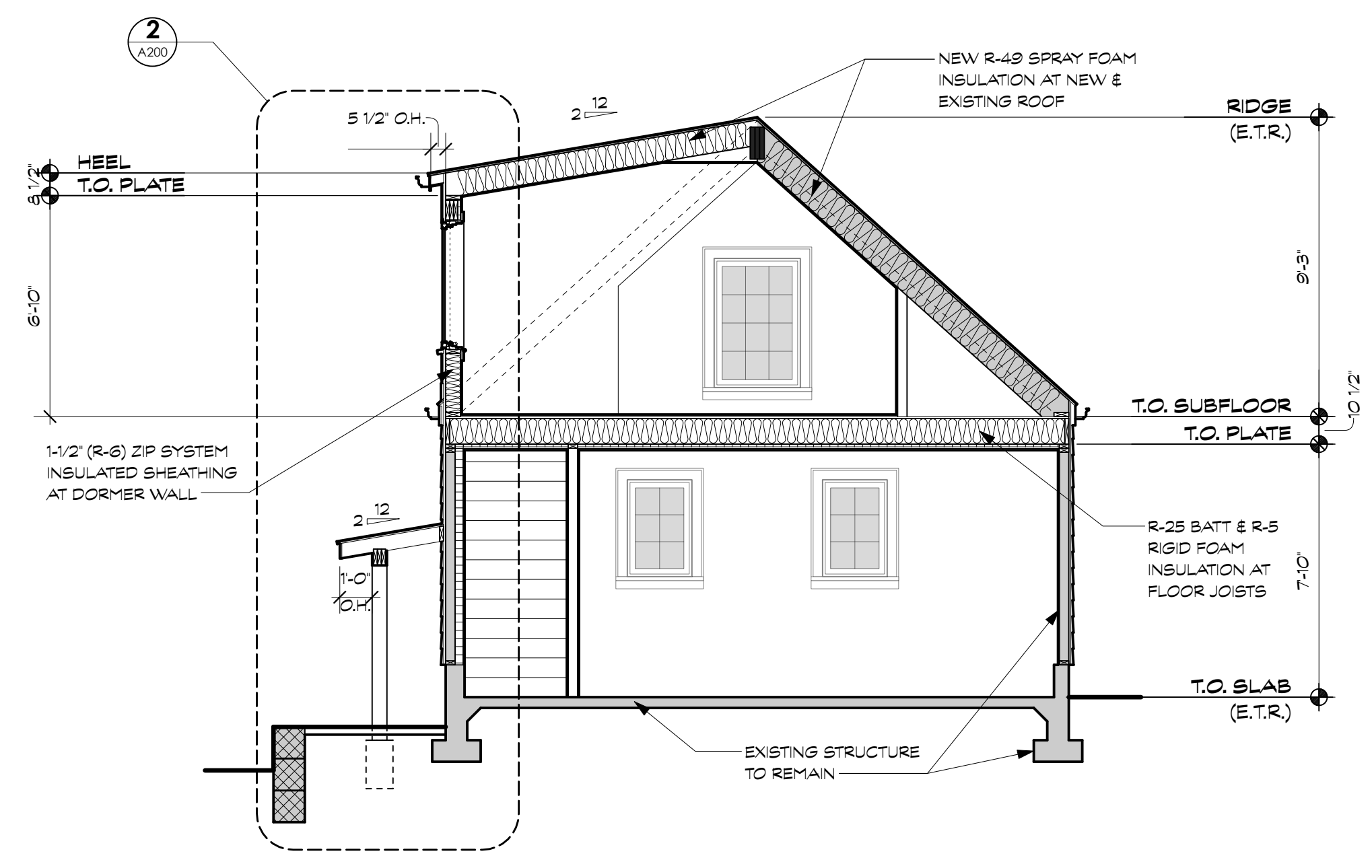
DEMOLITION PLANS & ELEVATIONS
D100



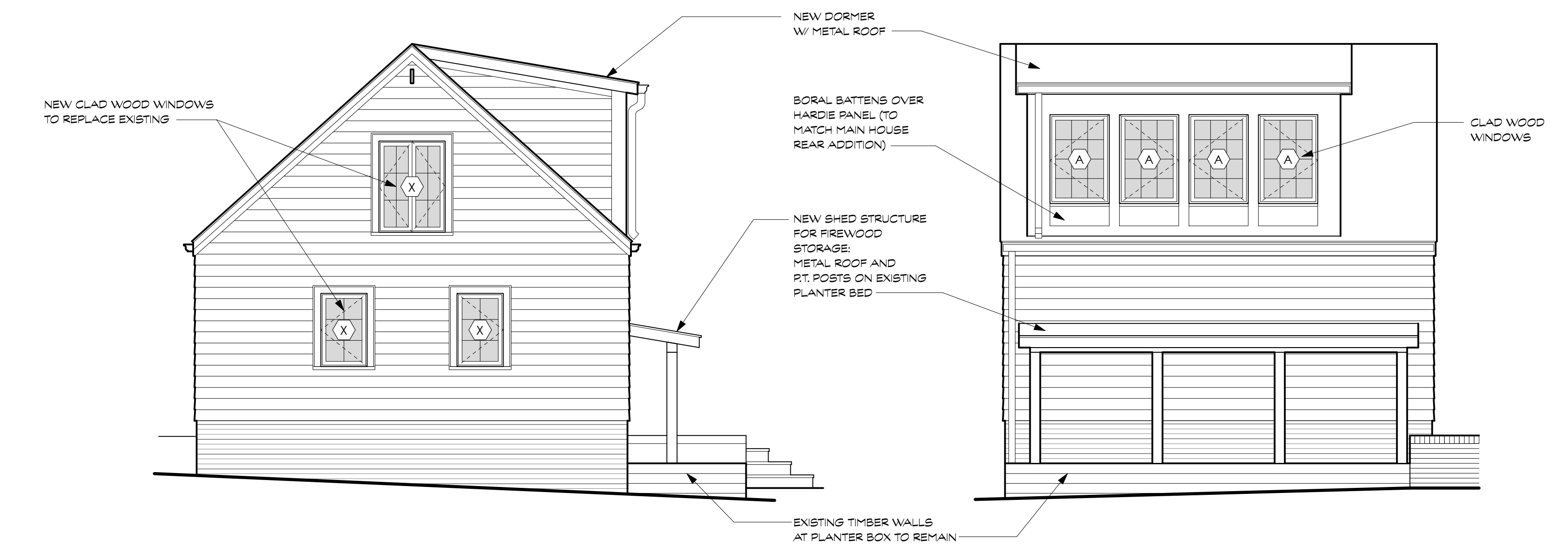
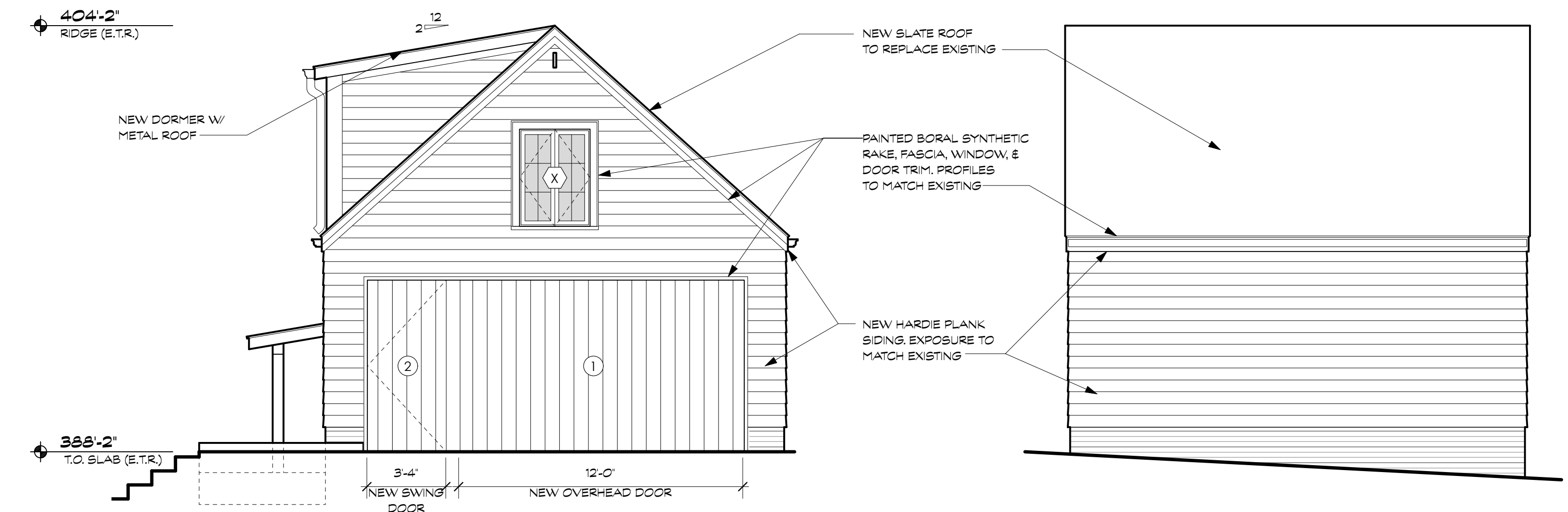
2 PROPOSED GARAGE PLAN - UPPER LEVEL
Scale: 1/4" = 1'-0"



1 PROPOSED GARAGE PLAN - LOWER LEVEL
Scale: 1/4" = 1'-0"



4 PROPOSED GARAGE SECTION
Scale: 1/4" = 1'-0"

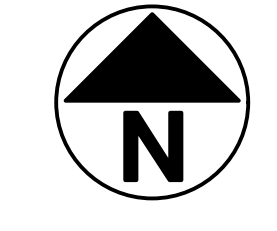


3 PROPOSED GARAGE ELEVATIONS
Scale: 1/4" = 1'-0"

WALL LEGEND

- EXISTING WALLS AND PARTITIONS TO REMAIN
- EXISTING WALLS AND PARTITIONS TO BE REMOVED
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DATE	ISSUE - REMARKS
4/20/2026	HAWP SET

DS

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TRUNK GARAGE RENOVATION
7818 Overhill Road, Bethesda, MD 20814
Project #2555
20 APRIL 2026
HAWP SET

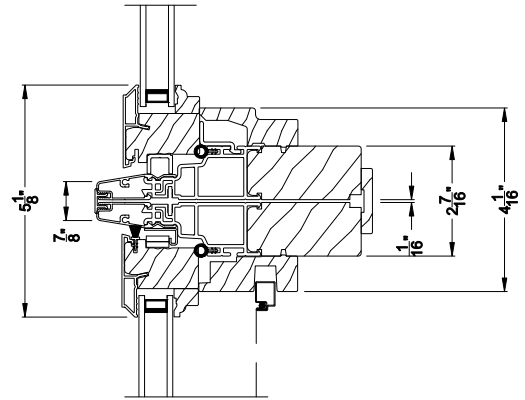
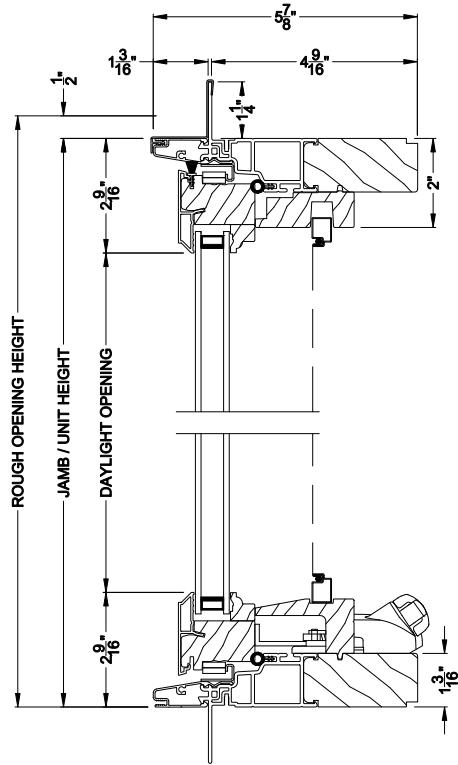
GARAGE PLANS & ELEVATIONS
A100

Weather Shield®

Signature Series™

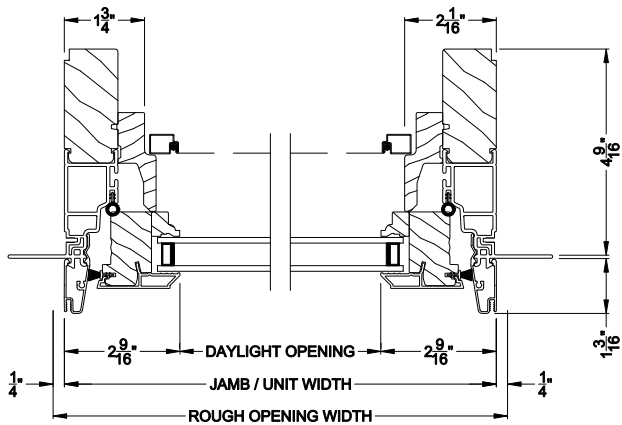
Casement Windows

CROSS SECTION DETAILS

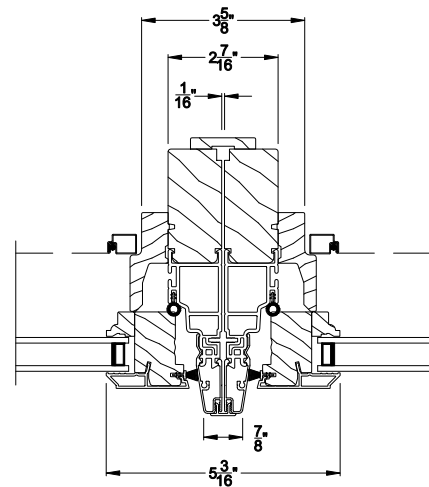


SIGNATURE CASEMENT WINDOW
Horizontal Stack Section - Transom Stack over Casement

SIGNATURE CASEMENT WINDOW (8219)
Vertical Section - 5/4 Jamb



SIGNATURE CASEMENT WINDOW (8219)
Horizontal Section - 5/4 Jamb



SIGNATURE CASEMENT WINDOW
Vertical Mull Section

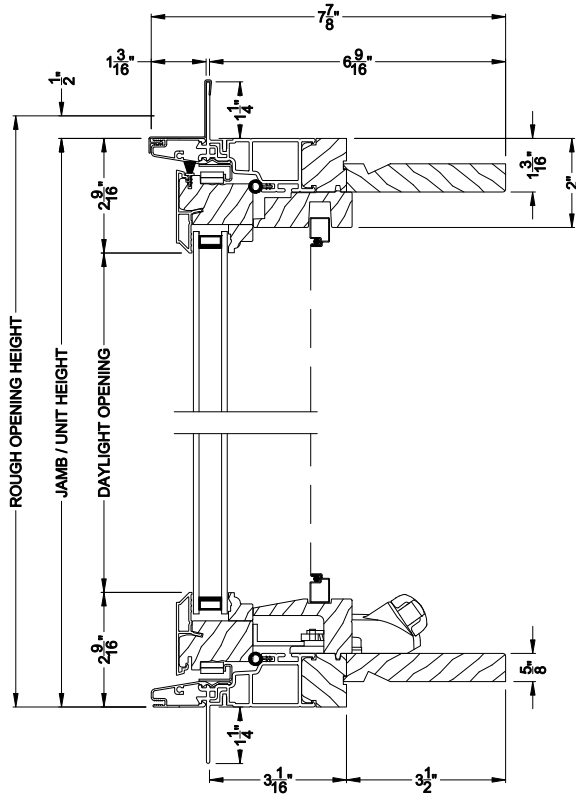
Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Weather Shield®

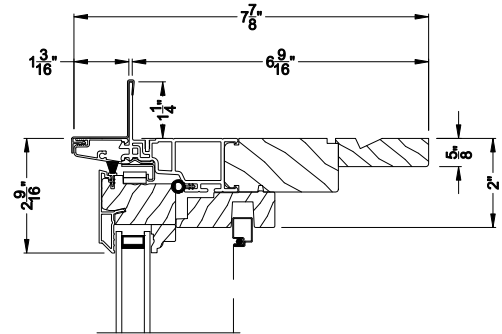
Signature Series™

Casement Windows

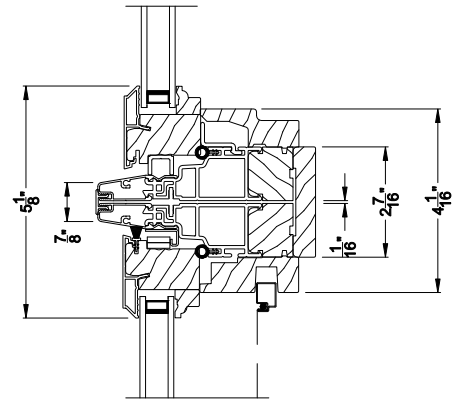
CROSS SECTION DETAILS



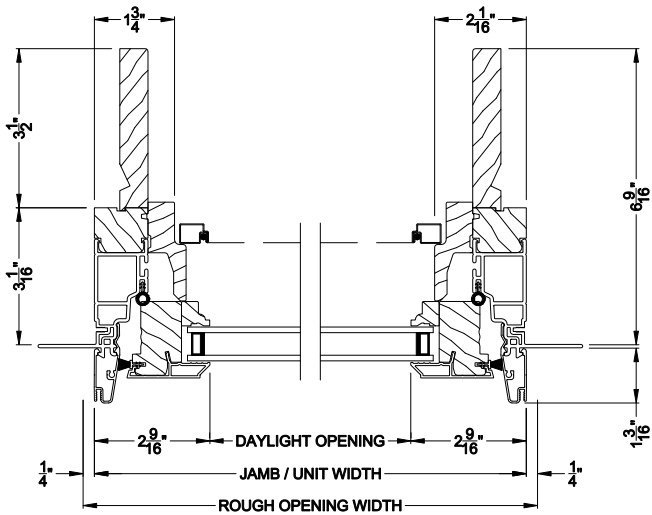
SIGNATURE CASEMENT WINDOW (8219)
Vertical Section - 6-9/16" jamb



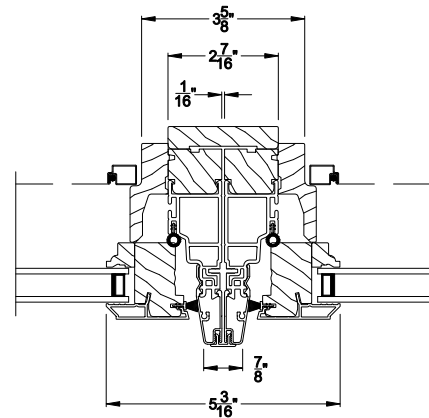
SIGNATURE CASEMENT WINDOW
Vertical Section - 5/4 jamb option with extension



SIGNATURE CASEMENT WINDOW
Horizontal Stack Section - Transom Stack over Casement



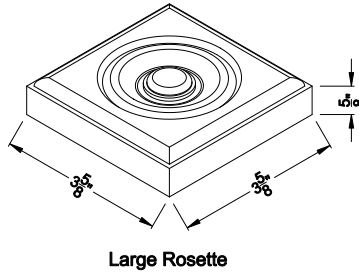
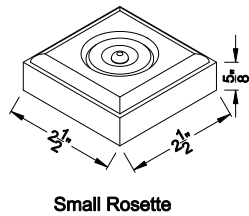
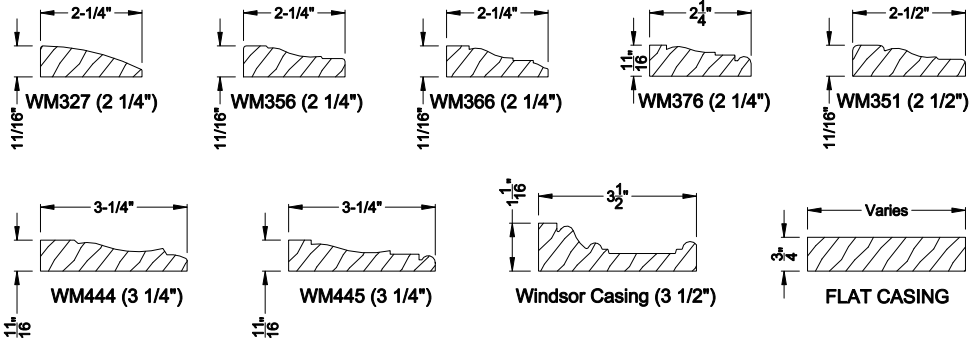
SIGNATURE CASEMENT WINDOW (8219)
Horizontal Section - 6-9/16" jamb



SIGNATURE CASEMENT WINDOW
Vertical Mull Section

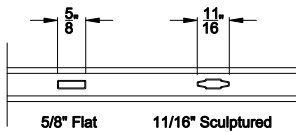
Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Interior Wood Trim Options

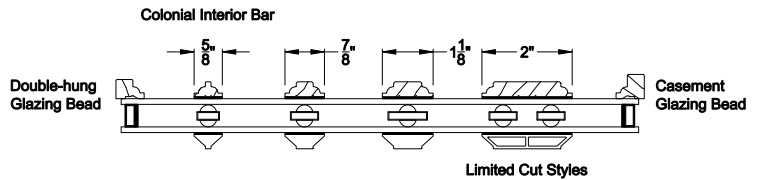


Divided Lite Options

Grilles Between the Glass

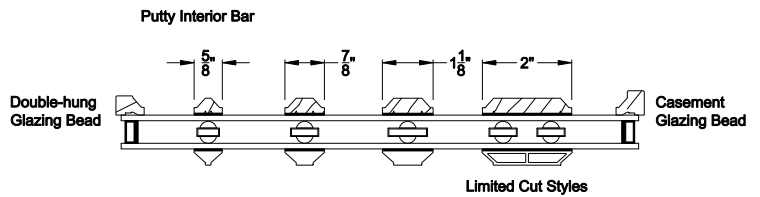
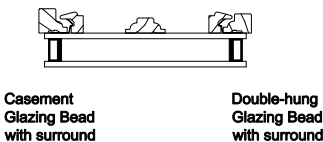


Simulated Divided Lites



Wood Perimeter Grill

Colonial Bar



Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Classic Craft® Artissa Collection®™ in Mahogany Grain

Style No. CCR8100 | 8' Full Plank | Glass Name: No Glass

Overview

Features & Literature

Reviews & Questions

Where to Buy

Design Your Door

Order Finish Samples



**PAINTED FINISH,
PAINT COLOR TBD**

STAIN OPTIONS



Acorn



Wildflower
Honey



Rustic Clay



Barley



Mulberry



Autumn
Harvest



New Earth



Driftwood



Raven

PAINT OPTIONS



Estuary



Obsidian



Peregrine



Arctic Ice



Why Choose EcoStar?

- Innovators in synthetic roofing since 1993
- Breadth of slate, shake, concrete and clay product offering
- Made with up to 80% upcycled polymer & rubber (not tires)
- Designed with up to 6" headlap for installation integrity
- Easy application keeps installation costs down
- Proven products providing superior protection against fire, ice, snow, wind, rain and hail
- Manufactured in the USA

Protection Overview

- Miami Dade prolonged and accelerated weathering @ 4,500 hours
- Miami Dade Wind TAS100 & TAS125 (NOA # 23-0601.01)
- Canadian Code Compliance Evaluation (CCMC-14174-R)
- UL listed Class C or A fire resistance (UL 790)
- UL Class 4 (highest rating) hail impact resistance (UL 2218)
- Job lot control produces uniform roof tile weathering
- Manufactured to ISO 9001:2015 Quality Management Standard
- 50-Year Material Warranty
- 50-Year Transferable Labor and Material Warranty available



Niagara Slate in Stormy Gray Blend



Niagara Shake in Custom Blend



Concrete Flat Tile in Black

Slate Products

- Realistic appearance of natural slate roofing
- Weighs significantly less than natural slate systems
- Staggered and offset installations accentuate roof texture and depth
- Standard Shadow Line: 12" w and 10" w Traditional, 12", 9" and 6" Random-Width Blend, 12" Chisel Point, Beveled Edge and Beaver Tail
- Enhanced Shadow Line: 14" w, 12" w and 10" w Niagara and Random-Width Blend with increased 5/8" thickness creates bold shadow lines

Shake Products

- Look of traditional wood shake while providing an eco-friendly, durable alternative to wood
- Can be installed to create a unique replication of staggered cedar shake
- No interlacing of underlayment required
- Aspen Blend Shake replicates thick, hand-split wood by using a combination of 2/3 Shake and 1/3 Shake Plus tiles
- Available with standard or enhanced shadow lines

Concrete & Clay Roofing Products

Concrete Flat Tile & Island Groove Clay

- The look of modern roofing
- Direct to deck application – no battens required
- Lightweight – no loading service required
- Competitive installed cost/square
- Color through material – no recoating required
- Low waste factor – no breakage

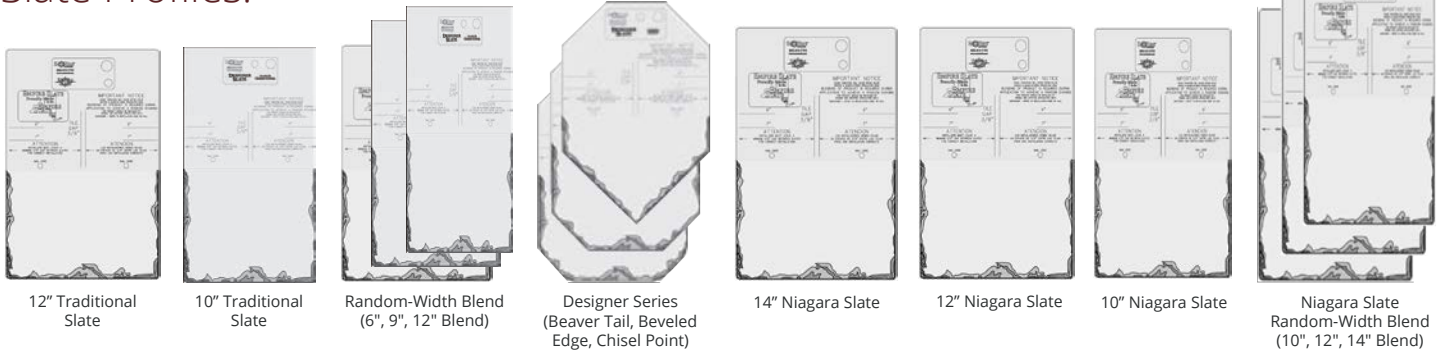
Installation Benefits

- Readily available with minimal lead times
- Easy application keeps installation costs down
- Products require minimal maintenance
- Factory pre-blended for color & width
- Competitive installed cost/square

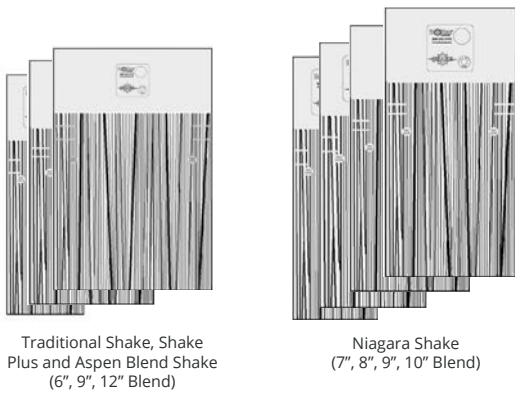
NOTE: Class A product lines approved for Miami Dade, Class C product lines approved for Florida. Island Groove Clay and Concrete Flat Tile not tested to CCMC.

	Class C Fire-Rated Products						Class A Fire-Rated Products						
	Slate	Niagara Slate	Shake	Niagara Shake	Concrete Flat Tile	Island Groove	Slate	Niagara Slate	Shake	Shake Plus	Niagara Shake	Concrete Flat Tile	Island Groove
Recycled Material	80%						25%						
Tile Width	12", 10", 9", 6"	14", 12", 10"	12", 9", 6" blend	10", 9", 8", 7" blend	12"	12"	12", 10", 9", 6"	14", 12", 10"	12", 9", 6" blend	12", 9", 6" blend	10", 9", 8", 7" blend	12"	12"
Profile	Solid	Cavity-back	Solid	Cavity-back	Cavity-back	Cavity-back	Solid	Cavity-back	Solid	Cavity-back	Cavity-back	Cavity-back	Cavity-back
Tile Thickness	1/4"	5/8"	3/8"	3/4"	3/4"	3/4"	1/4"	5/8"	3/8"	3/4"	3/4"	3/4"	3/4"
Maximum Reveal	7" (6")	10" (9")	8" (7")	10" (9")	10" (9")	10" (9")	8" (7", 6")	10" (9")	9" (8", 7")	9" (8", 7")	10" (9")	10" (9")	10" (9")
Weight/Sq at Max. Reveal	275 lbs.	250 lbs.	261 lbs.	216 lbs.	233 lbs.	238 lbs.	308 lbs.	290 lbs.	277 lbs.	371 lbs.	250 lbs.	279 lbs.	279 lbs.
Impact Rating	Class 4						Class 4						
Miami-Dade	No						Yes						No
Colors	12						14						
Color Blends	12						12						
Cool Roof Colors	No						Yes						
Custom/ Marbled	No						Yes						

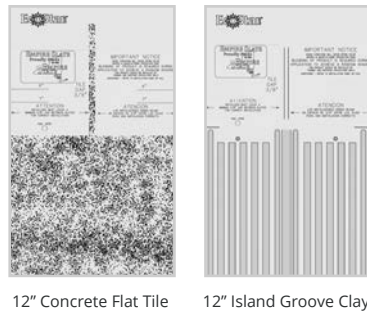
Slate Profiles:



Shake Profiles:



Concrete & Clay Profiles:



Product Data

FLASHING & SHEET METAL | 07 60 00



PRODUCT NAME

PAC-CLAD prefinished aluminum and steel sheet and coil.

MANUFACTURER

Petersen Aluminum Corporation
1005 Tonne Road
Elk Grove Village, IL 60007
P: 800-323-1960
847-228-7150
F: 800-722-7150
pac-clad.com

PRODUCT DESCRIPTION

PAC-CLAD is a pre-finished specification-grade aluminum sheet or commercial-quality extra-smooth galvalume steel sheet, primed and coated with Petersen's full-strength fluoropolymer (PVDF) high-performance coating system of 1.0 mil (0.025 mm) total dry film thickness and, on the reverse side, a wash coat of 0.3 -0.4 mil (0.008-0.01 mm) dry film thickness.

BASIC USE: PAC-CLAD material is for general sheet metal use in building applications, as well as formed roofing and wall panels produced by Petersen Aluminum. PAC-CLAD is frequently used in the following forms:

- ▶ Roofing and mansard panels
- ▶ Wall panels
- ▶ Fascia and soffit panels
- ▶ Gravel stops and copings
- ▶ Store front components
- ▶ Flashing and trim

MATERIALS AND FINISHES: PAC-CLAD consists of either Aluminum Association specification ASTM B209 aluminum sheet, temper H14 or H34; hot-dipped ASTM A 653 Grade A structural quality steel sheets, or ASTM A792 Galvalume commercial weight. PAC-CLAD sheets, coil and panels are coated with a 2-coat system using a combination of 70% Kynar 500®/ Hylar 5000® polyvinylidene fluoride (PVDF), acrylic resins, pigments and solvents. The system consists of Fluoropon® top coat applied over a polyester primer. A wash coat is applied to the reverse side for additional protection.

STANDARD SIZES: Aluminum is available in .032" - .063" (0.8 - 1.6 mm) thickness in 48" (1219 mm) widths. Steel is available in 24 and 22 GA in 48" (1219 mm) widths.

COLORS: For standard colors, refer to Table on Page 2. Custom match colors are available in minimum quantities of 5000 lb (2268 kg) for standard gauges.

FINISH: Sheens available – Dull, matte and specular, gloss rating of 25-35% at 60° viewing angle.

TEXTURES AVAILABLE: Smooth

LIMITATIONS: PAC-CLAD performance depends on the integrity of the coating film. PAC-CLAD should not be used in areas of high abrasion or where it will be subject to mechanical damage.

TECHNICAL DATA

APPLICABLE STANDARDS:

- ▶ Aluminum Association Specifications for Aluminum Structures
- ▶ Specifications for Cold Formed Steel Design Manual
- ▶ American Architectural Manufacturers Assoc – AAMA 621-02 and AAMA 2605-17A

AMERICAN SOCIETY FOR TESTING & MATERIALS (ASTM)

- ▶ ASTM A792/A792M Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot Dip Process
- ▶ ASTM A755/A755M – Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil Coating Process for exterior Exposed Building Products
- ▶ ASTM B209 Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate

PHYSICAL QUALITY

- ▶ ASTM D 6578/6578M Graffiti resistance
- ▶ ASTM G7 Film integrity
- ▶ ASTM D 662 Erosion resistance
- ▶ ASTM B117-95 – Operating Salt Spray (Fog) Apparatus
- ▶ ASTM D 523 – Standard Test for Specular Gloss
- ▶ ASTM D 968 – Standard Test Methods for Abrasion Resistance for Organic Coatings by Falling Abrasive
- ▶ ASTM D 2244 – Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally

Measured Color Coordinates

- ▶ ASTM D 2247 – Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
- ▶ ASTM D 2794 – Standard Test Method for Resistance of organic Coatings to the Effects of Rapid Deformation (Impact)
- ▶ ASTM D 4214 – Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films
- ▶ ASTM D 3363 - Standard Test Method for Film Hardness by Pencil Test
- ▶ ASTM D 4145 - Standard Test Method for Coating Flexibility of Prepainted Sheet
- ▶ ASTM D 3359 - Standard Test Methods for Measuring Adhesion by Tape Test
- ▶ ASTM D 1308 - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- ▶ ASTM D 522 - Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
- ▶ ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials

NATIONAL COIL COATERS ASSOCIATION (NCAA)

- ▶ NCAA Procedure No. 11-5
- ▶ NCAA Procedure No. 11-18
- ▶ NCAA Technical Bulletin No. 11-6

SHEET METAL & AIR CONDITIONING CONTRACTORS

NATIONAL ASSOCIATION (SMACNA) - Architectural Sheet Metal Manual

Physical Properties of Fluoropolymer Coating – See PAC-CLAD Chart on Page 2.

INSTALLATION

Methods: Fabricate and install PAC-CLAD sheet metal in accordance with SMACNA sheet metal practices. PAC-CLAD can be cut, formed, nailed, screwed or riveted using conventional hand or power tools. PAC-CLAD coatings must be mechanically removed if soldering or welding is necessary. For best results, cutting edges should be kept sharp, clean, properly dressed and closely aligned.

A strippable vinyl film can be applied for protection during fabrication and installation if necessary. Vinyl film may remain on the coating during fabrication and installation. Vinyl must be removed prior to or immediately after installation.

1005 Tonne Road
Elk Grove Village, IL 60007
P: 800-PAC-CLAD
F: 800-722-7150

1255 S. Caton, Suite B
Baltimore, MD 21227
P: 800-344-1400
F: 301-953-7627

10551 PAC Road
Tyler, TX 75707
P: 800-441-8661
F: 903-581-8592

102 Northpoint Parkway
Acworth, GA 30102
P: 800-272-4482
F: 770-420-2533

1800 S. 7th Ave., Suite 130
Phoenix, AZ 85007
P: 833-750-1935
F: 602-254-6504

9817 233rd Ave. E Suite A
Bonney Lake, WA 98391
P: 833-750-1935

Product Data

FLASHING & SHEET METAL | 07 60 00



PAC-CLAD is a finished material; care must be taken during fabrication and erection to avoid damage to the surface. Proper bend radii must be used in fabrication.

AVAILABILITY & COST

AVAILABILITY: PAC-CLAD sheets are available nationwide and are stocked in standard colors and gauges. Special finishes require additional time for color matching and approvals. **Note:** 5000 pound minimum for non-standard colors. Delivery time and price to be quoted upon inquiry.

COST: Contact the manufacturer for specific cost.

WARRANTY

A 35-year non-prorated warranty covering color, fade, chalking and film integrity is available at no additional cost. Please see our website for sample warranty. Warranty terms vary slightly for Award Blue and Cardinal Red and metallic finishes. The warranty is issued on a per-project basis upon request. Contact Petersen for specific requirements.

MAINTENANCE

Maintenance is not required. The panel finish is a member of the Teflon family and is self-cleaning. If cleaning is desired, panels can be washed with mild soap and water followed by a clean water rinse.

TECHNICAL SERVICES

Technical services are available from Petersen Aluminum Corporation and regional architectural representatives.

STORAGE & PACKAGING

PAC-CLAD sheet and coil should be stored in a clean, dry location. Suitable facilities at the jobsite for storage and protection of the material should be provided and should be well ventilated.

Store material out of traffic areas to prevent dents, bending, abrasion, etc. Materials should be protected with waterproof paper cover – plastic should be avoided to eliminate condensation. Keep the material off the ground in an inclined position.

PAC-CLAD COLOR AVAILABILITY

REFLECTIVITY	0.70 to 0.05	3-YEAR EXPOSURE	0.69 to 0.04
EMISSIVITY	0.90 to 0.14	SRI	0 to 85

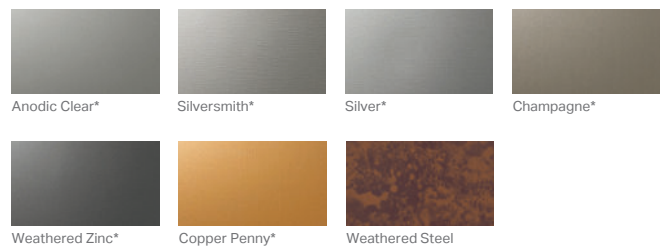
STEEL		ALUMINUM	
24 GA.	44 colors	.032	30 colors
22 GA.	15 colors	.040	24 colors
		.050	21 colors
		.063	6 colors

The chart above indicates performance ranges and availability of all PAC-CLAD colors and materials. For complete information visit pac-clad.com.

STANDARD COLORS



PREMIUM COLORS



* Denotes PAC-CLAD Cool Color

NOTE: Colors above are not exact representations of actual PAC-CLAD colors. Ask a PAC representative for a color-chip chart or painted metal samples before making final color selection.

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F: 800-722-7150

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P: 800-344-1400
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F: 602-254-6504

9817 233rd Ave. E Suite A
Bonney Lake, WA 98391
P: 833-750-1935

HardiePlank® Lap Siding Product Description

HardiePlank® lap siding is factory-primed fiber-cement lap siding available in a variety of styles and textures. Please see your local James Hardie® product dealer for product availability. HardiePlank lap siding comes in 12 ft. lengths. Nominal widths from 5 1/4 in to 12 in. create a range of exposures from 4 in to 10 3/4 in

HardiePlank lap siding is also available with ColorPlus® Technology as one of James Hardie's prefinished products. ColorPlus® Technology is a factory applied, oven-baked finish available on a variety of James Hardie siding and trim products. See your local dealer for details and availability of products, colors, and accessories.

The HZ5® product line is right at home in climates with freezing temperatures, seasonal temperature variations, snow and ice. HZ5® boards are the result of our generational evolution of our time-tested products. We've evolved our substrate composition to be specifically designed to perform in conditions found in these climates. To ensure that its beauty matches its durability, we've engineered the surface for higher performance, giving it superior paint adhesion and moisture resistance. In addition, we've added a drip edge to the HardiePlank® HZ5® lap siding product to provide improved water management in conditions specific to HZ5® climates.



Select Cedarmill®



Smooth



Beaded Cedarmill®



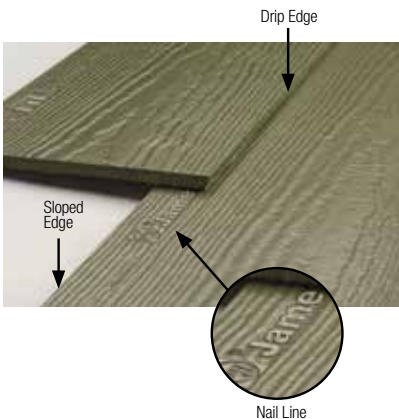
Beaded Smooth



Custom Colonial Roughsawn®



Custom Colonial Smooth®



Hardie® Plank Lap Siding

Submittal Form

01

Submitted to:

HZ5® Product Zone HZ10® Product Zone

Project Name:

Product Width: 5-1/4in 6-1/4in 7-1/4in 8in 8-1/4in 9-1/4in 12in

Submitted by:

Product Finish: Primed ColorPlus® Technology

Date:

Product Texture: Smooth Select Cedarmill® Colonial Roughsawn®
 Colonial Smooth® Rustic Cedar

Hardie® Plank Lap Siding

Specification Sheet

01

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION | SECTION: 07 46 46 FIBER CEMENT SIDING

HARDIE® PLANK LAP SIDING

Manufacturer

James Hardie Building Products, Inc.

The products are manufactured at the following locations, with quality control inspections by ICC-ES:

- Cleburne, Texas
- Plant City, Florida
- Reno, Nevada
- Waxahachie, Texas
- Prattville, Alabama
- Peru, Illinois
- Pulaski, Virginia
- Tacoma, Washington
- Fontana, California
- Summerville, South Carolina

Compliance with the following codes

- 2006 thru 2021 International Building Code (IBC)
- 2006 thru 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to ICC-ES ESR-2290

Features

- Noncombustible
- Dimensionally Stable
- Resists damage from pests
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable

Use

Hardie® fiber-cement lap siding is used as exterior wall covering. The product complies with IBC Section 1403.9 and IRC Section R703.10. The product may be used on exterior walls of buildings of Type I, II, III and IV construction (IBC)

Description

Hardie® Plank lap siding is a single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie® Plank lap siding complies with ASTM C1186, as Grade II, Type A; has a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and is classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

Product	Width (in)	Length	Thickness (in)
Hardie® Plank lap siding*	5-1/4, 6-1/4, 7-1/4, 8, 8-1/4, 9-1/4, 12	12 feet	5/16

* HZ5: 9-1/4, 12 only available primed HZ10: 5-1/4, 9-1/4, 12 only available primed.

Weight 2.31 lbs. per square foot

Texture & Finish

Hardie® Plank lap siding comes in a variety of textures and finishes. The product is available in smooth or wood grain texture. Additional textures are available on a regional basis. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

Engineered for Climate®

Hardie® Plank lap siding is engineered for performance to specific weather conditions by climate zones as identified by the following map.



Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.04 in	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft ³	ASTM C1185		As reported	83
	Water Absorption, % by mass	ASTM C1185		As reported	36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Flexural Strength	ASTM C1185	Wet conditioned, psi	>1015 psi	Pass
Equilibrium conditioned, psi			>1450 psi		
THERMAL	Thermal Conductivity	ASTM C177	(BTU/(hr·ft ² ·°F))/inch	As reported	2.07
	Actual Thermal Conductivity		(K _{eff})		6.62
	Thermal Resistance		R=1/ K _{eff}		0.48
	Actual Thermal Resistance		(R)		0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
	International Building Code® class		A		
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: listed on Warnock Hersey and ESR 2290

Installation

Install Hardie® Plank lap siding in accordance with:

- Hardie® Plank lap siding installation instructions
- ICC-ES ESR 2290
- Requirements of authorities having jurisdiction

Warranty

Hardie® Plank lap siding: 30-year, Non-Prorated, Limited Warranty
ColorPlus® Technology: 15-year Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content- varies by project location
- Avoidance of certain chemicals or Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800)426-4051

IMPORTANT: Failure to install and finish this product in accordance with applicable building codes and James Hardie written application instructions may affect system performance, violate local building codes, void the product-only warranty and lead to personal injury. **DESIGN ADVICE:** Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardie will not be responsible in connection with any such information or assistance.

CREATING CUSTOM LOOKS WITH TRUEXTERIOR TRIM IS JUST AS EASY AS IT IS WITH TRUEXTERIOR SIDING.

Our trim ensures you'll never run out of ways to embellish your home design while outlasting traditional wood. Neighborhood bragging rights meet long-term livability.

5/8 TRIM SIZES	
Nominal	Actual
5/8 x 4	5/8" x 3-1/2"
5/8 x 6	5/8" x 5-1/2"
5/8 x 8	5/8" x 7-1/4"
5/8 x 10	5/8" x 9-1/4"
5/8 x 12	5/8" x 11-1/4"

1X TRIM SIZES	
Nominal	Actual
1 x 3	3/4" x 2-1/2"
1 x 4	3/4" x 3-1/2"
1 x 5	3/4" x 4-1/2"
1 x 6	3/4" x 5-1/2"
1 x 8	3/4" x 7-1/4"
1 x 10	3/4" x 9-1/4"
1 x 12	3/4" x 11-1/4"

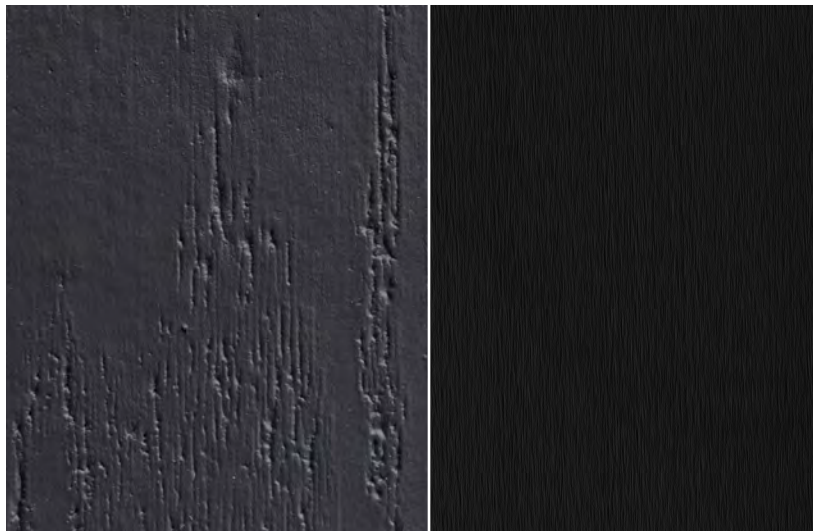
5/4 TRIM SIZES	
Nominal	Actual
5/4 x 3	1" x 2-1/2"
5/4 x 4	1" x 3-1/2"
5/4 x 5	1" x 4-1/2"
5/4 x 6	1" x 5-1/2"
5/4 x 8	1" x 7-1/4"
5/4 x 10	1" x 9-1/4"
5/4 x 12	1" x 11-1/4"

2X TRIM SIZES	
Nominal	Actual
2 x 2	1-1/2" x 1-1/2"
2 x 4	1-1/2" x 3-1/2"
2 x 6	1-1/2" x 5-1/2"
2 x 8	1-1/2" x 7-1/4"
2 x 10	1-1/2" x 9-1/4"
2 x 12	1-1/2" x 11-1/4"

AVAILABLE IN 16-FOOT LENGTHS



IDEAL FOR FASCIA, SOFFITS, RAKE BOARDS AND DOOR TRIM



WOODGRAIN ON ONE SIDE & SMOOTH FINISH ON THE REVERSE

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.

Smooth Finish

Woodgrain Finish

Nominal Size	Actual Thickness	Actual Width	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"

Available in 16-foot lengths

SKIRT BOARD



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

Smooth Finish

Woodgrain Finish

Nominal Size	Actual Thickness	Actual Width
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"

Available in 16-foot lengths

TruExterior Accessories come pre-primed and do require paint.

SIDING POCKET RABBETED TRIM



Perfect for end wall terminations, this trim with a 3/4" siding pocket accepts all TruExterior Siding profiles.

Smooth Finish

Woodgrain Finish

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

Available in 16-foot lengths

WINDOW & SIDING POCKET RABBETED TRIM



The ultimate accessory to build a neat, professional-looking window surround.

Smooth Finish

Woodgrain Finish

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

Available in 16-foot lengths

