





ISSUE	ID	DATE
AHR	A	03/02/2026



**PROGRESS**  
 NOT FOR  
 CONSTRUCTION  
 3/2/2026

EXISTING HOUSE PHOTOS



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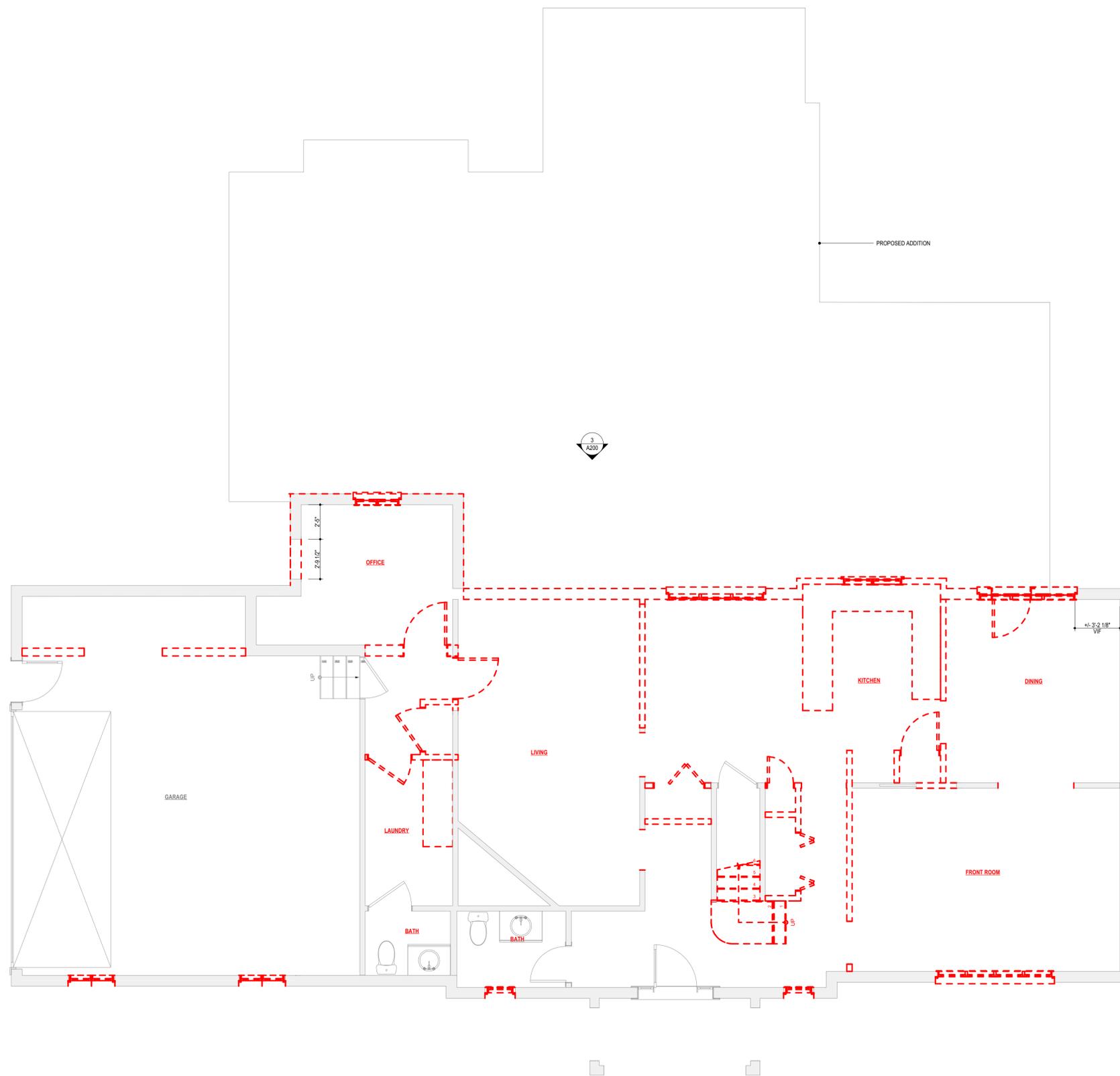
**PROGRESS**

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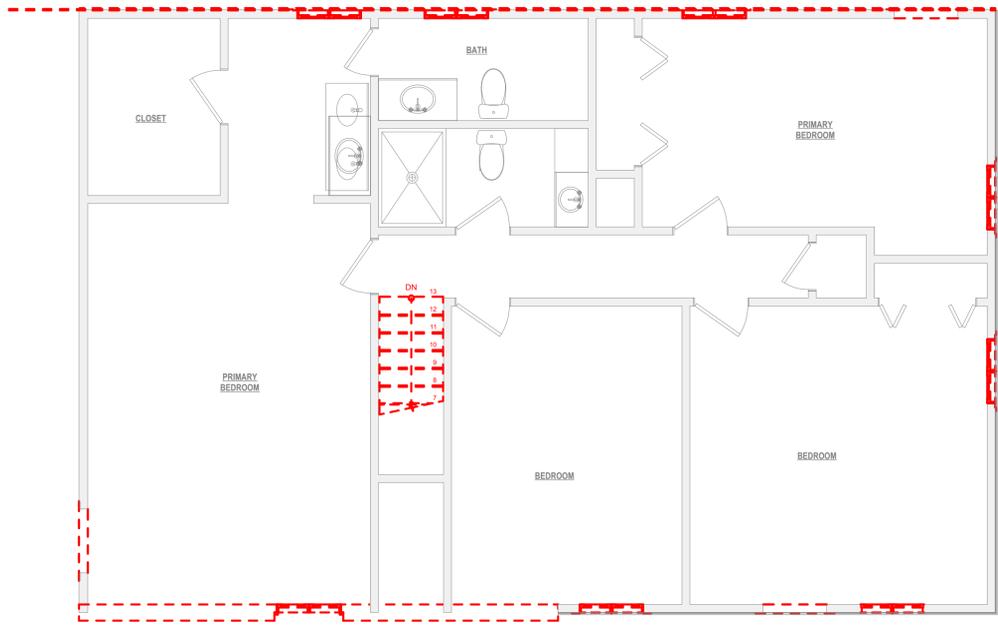
DEMOLITION PLAN

**D100**

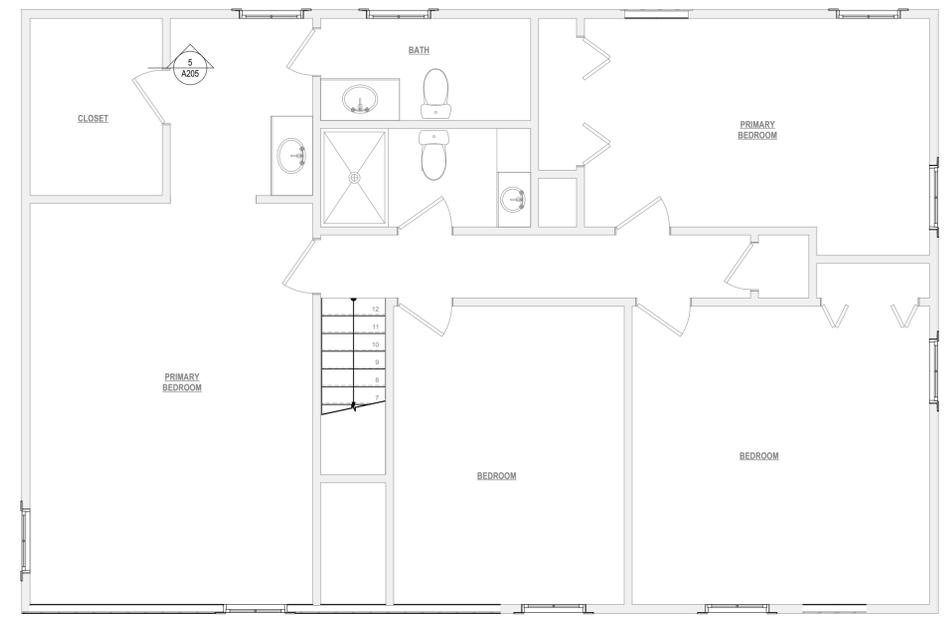








**1 SECOND FLOOR PLAN DEMOLITION PLAN**  
 SCALE: 1/4" = 1'-0"



**2 SECOND FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"



**CALCEI RESIDENCE**  
 22 Essex Circle, Hudson, Ohio 44236

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SECOND FLOOR PLAN

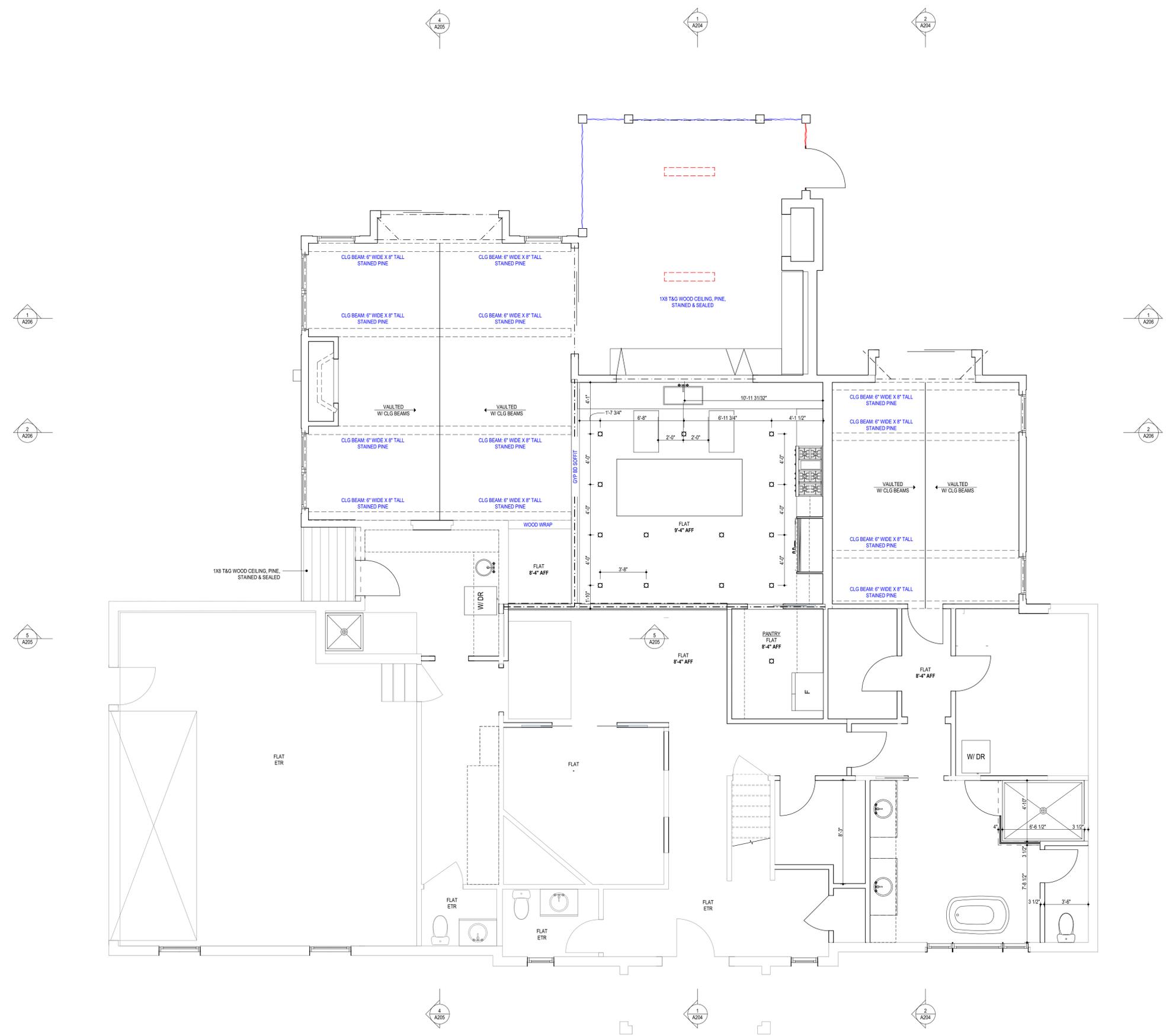
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CEILING PLANS



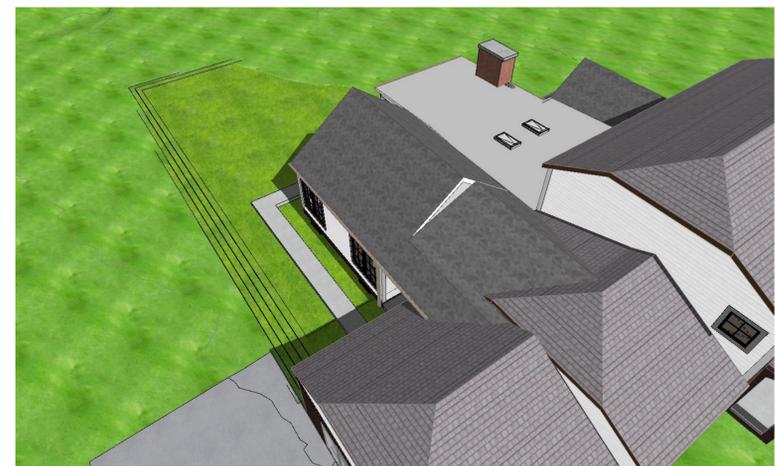
**1 FIRST FLOOR CEILING PLAN**  
 SCALE: 1/4" = 1'-0"



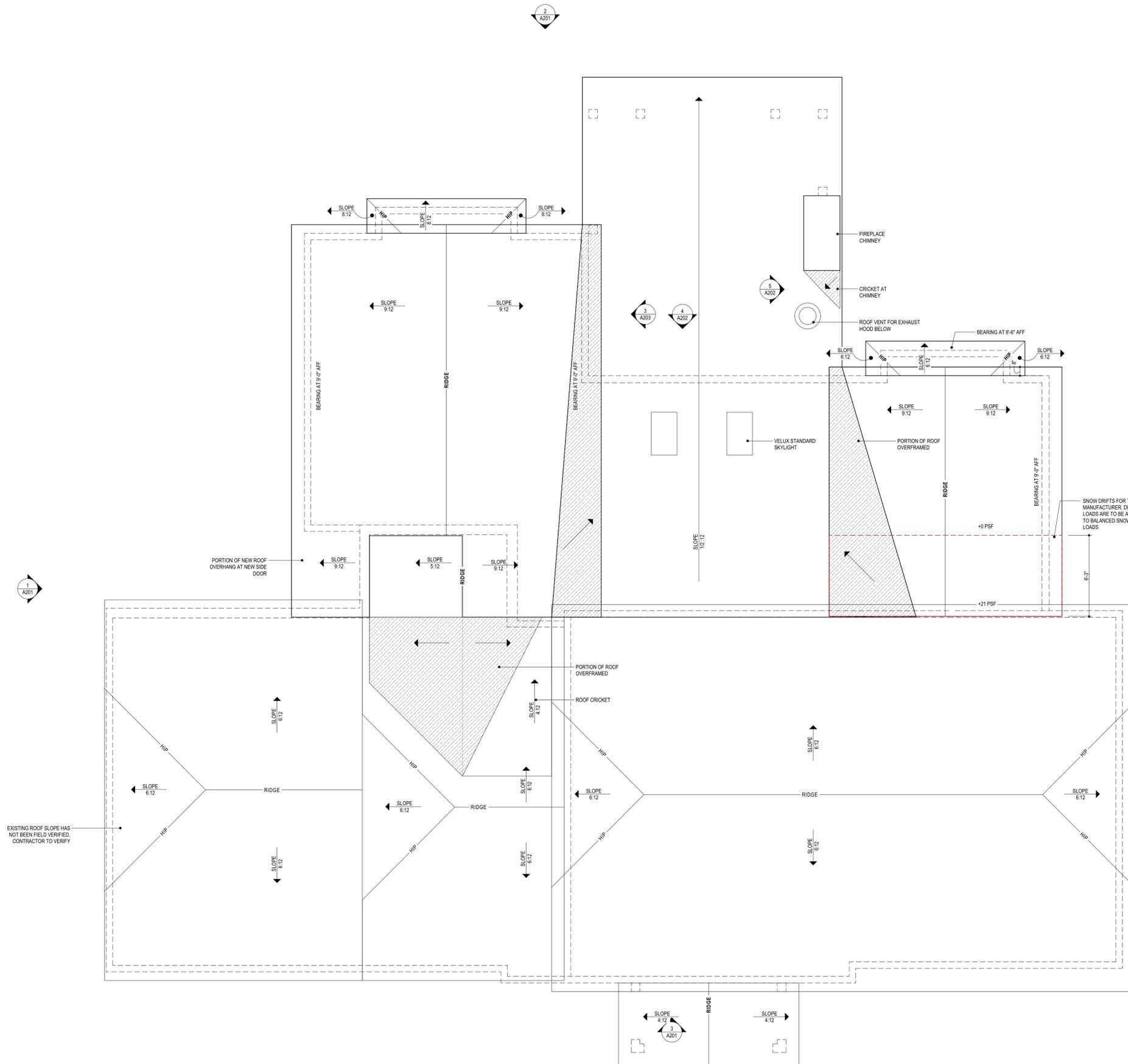
2 Roof Perspective #1



3 Roof Perspective #2



5 Roof Perspective #3



1 ROOF PLAN  
 SCALE: 1/4" = 1'-0"

ROOF PLAN GENERAL NOTES		MATERIAL SCHEDULE	
OVERHANG DIMENSIONS ARE NOTED FROM THE EXTERIOR FACE OF SHEATHING TO THE EXTERIOR FACE OF THE 1X FASCIA BOARD.	ROOF #1 ASPHALT SHINGLE ROOF OF MANUFACTURER'S RECOMMENDED UNDERLAYMENT	ROOF #2 METAL ROOF OF MANUFACTURER'S RECOMMENDED UNDERLAYMENT	ROOF #3 RUBBER ROOF MEMBRANE OF MANUFACTURER'S RECOMMENDED UNDERLAYMENT
ALL BEARING ELEVATIONS NOTED ARE FROM THE INSIDE FACE OF THE 2X FRAMING U.N.O.	OF 17/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE INSTALLED AT ALL LEAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE FACE OF ALL FASCIAS.	OF 17/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE INSTALLED AT ALL LEAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE FACE OF ALL FASCIAS.	OF 17/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE INSTALLED AT ALL LEAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE FACE OF ALL FASCIAS.
OVERFRAMING AND CRICKETS TO BE CONSTRUCTED OF A MINIMUM 2 X 8 FRAMING.			
ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION TO INSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.			
FLASH AND TERMINATE ALL ROOF PENETRATIONS PER MANUFACTURER'S RECOMMENDATIONS U.N.O.			
GUTTER PROFILES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.			
INDICATES DOWNSPOUT AND GUTTER LOCATION	DS ○		
	GUTTER □ □ □		

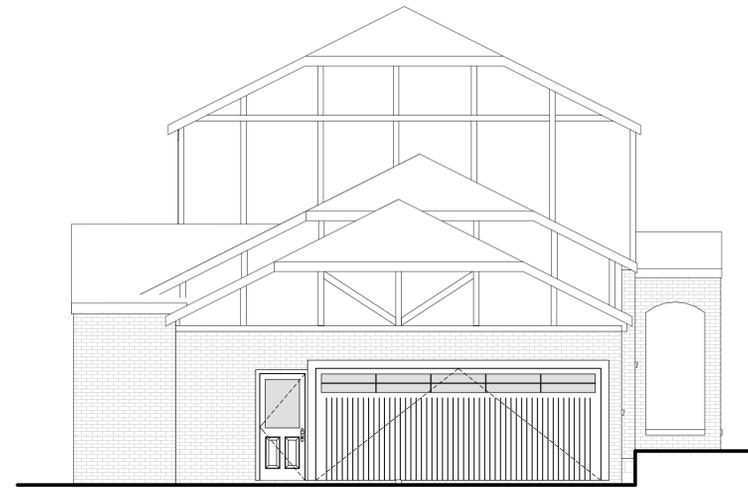
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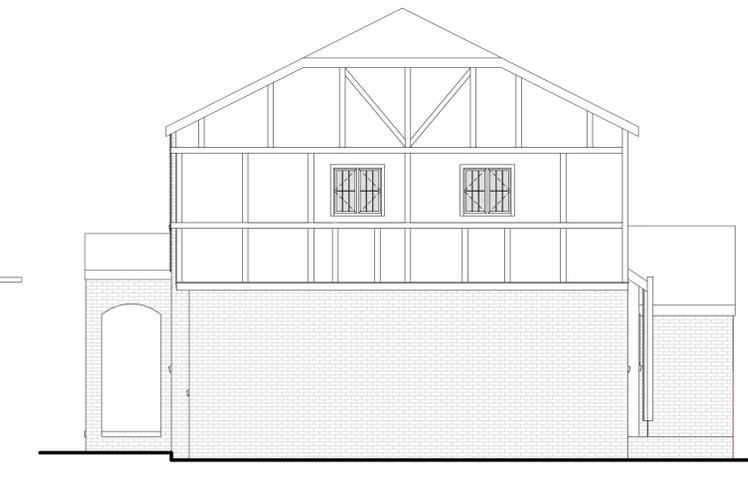
ROOF PLAN  
 A103



1 EXISTING SOUTH ELEVATION (FRONT OF HOUSE)  
 SCALE: 3/16" = 1'-0"



2 EXISTING WEST ELEVATION (SIDE OF HOUSE)  
 SCALE: 3/16" = 1'-0"



3 EXISTING NORTH ELEVATION (REAR OF HOUSE)  
 SCALE: 3/16" = 1'-0"



4 EXISTING EAST ELEVATION (SIDE OF HOUSE)  
 SCALE: 3/16" = 1'-0"



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EXISTING EXTERIOR ELEVATIONS

**EXTERIOR ELEVATION GENERAL NOTES**

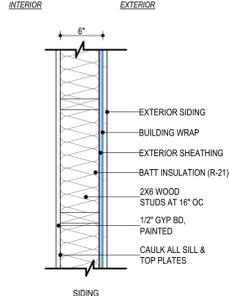
ALL TRIM AT WINDOWS AND DOORS TO AZEK, PAINTED.  
 ALL EXPOSED WOOD ELEMENTS AND TONGUE AND GROOVE CEILINGS IS TO BE PINE, STAINED AND SEALED. COORDINATE FINAL COLOR WITH OWNER.  
 ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION TO ENSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.

**MATERIAL SCHEDULE**

- SIDING 01 HORIZONTAL SIDING**  
 FIBER CEMENT LAP SIDING, 6" EXPOSURE  
 COLOR: PREFINISHED OR COLOR BY OWNER
- SIDING 02 VERTICAL SIDING**  
 FIBER CEMENT BOARD AND AZEK BATTENS  
 COLOR: PREFINISHED OR COLOR BY OWNER
- BRICK 01 BRICK VENEER**  
 MASONRY VENEER W/ BRICK TIES, MATCH EXISTING RESIDENCE
- ROOF 01 ASPHALT SHINGLE ROOF**  
 LANDMARK PRO, COLOR BY OWNER
- ROOF 02 METAL STANDING SEAM ROOF**  
 METAL ROOF
- ROOF 03 RUBBER ROOF**  
 LOW SLOPE RUBBER ROOF MEMBRANE ROOF
- WINDOWS**  
 ALUMINUM CLAD WOOD WINDOW  
 ANDERSEN A SERIES
- SCREENS**  
 MOTORIZED AND FIXED SCREENS

**EXTERIOR WALL TYPES**

NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW



**CALCEI RESIDENCE**  
 22 Essex Circle, Hudson, Ohio 44236

PROJECT #: 2519

WINDOW SCHEDULE			ISSUE	ID	DATE
W01	4	3'-0" x 5'-0"	AHBR	A	03/02/2026
W02	12	3'-0" x 5'-6"			
W03	2	2'-0" x 5'-6"			
W04	1	4'-0" x 5'-6"			
X	1	3'-0" x 3'-0"			
X	2	2'-1" x 3'-8"			
X	2	3'-3" x 4'-5 27/64"			
X	4	3'-0" x 4'-0"			

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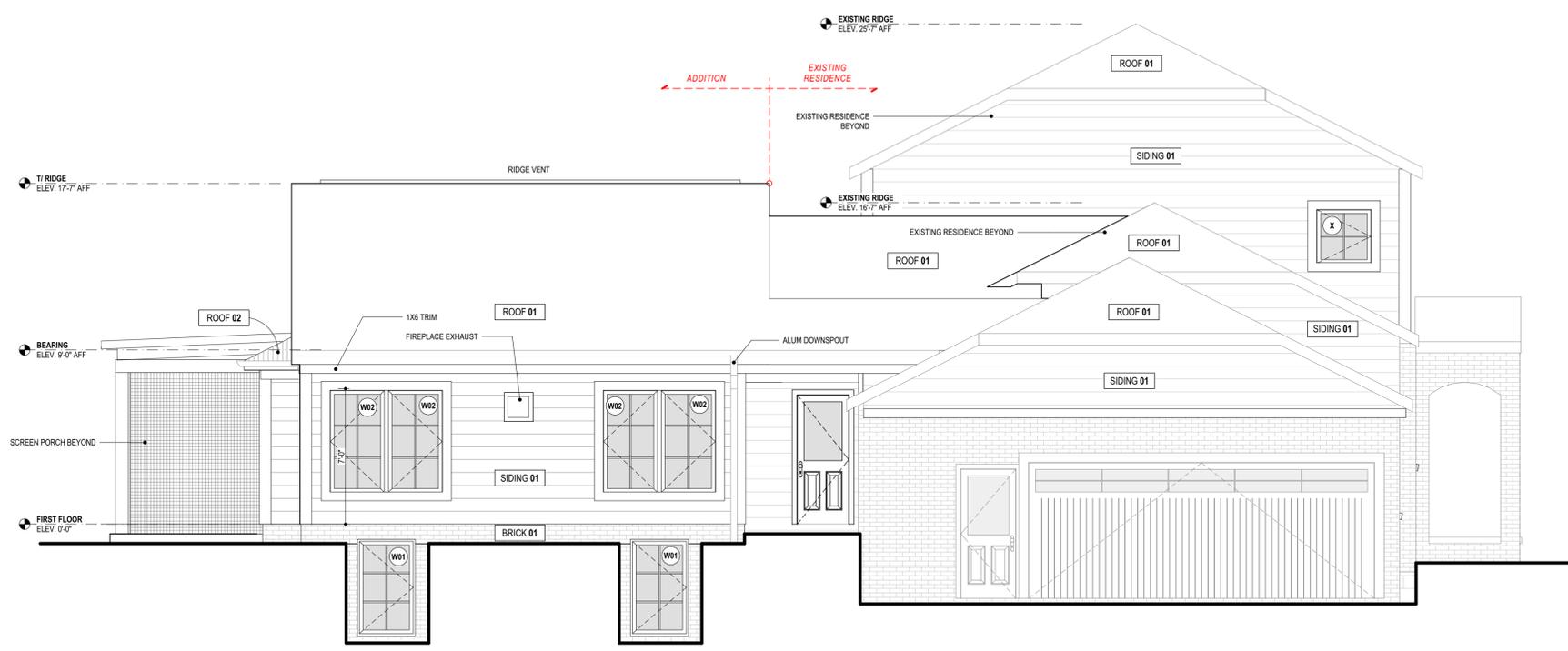


**PROGRESS**

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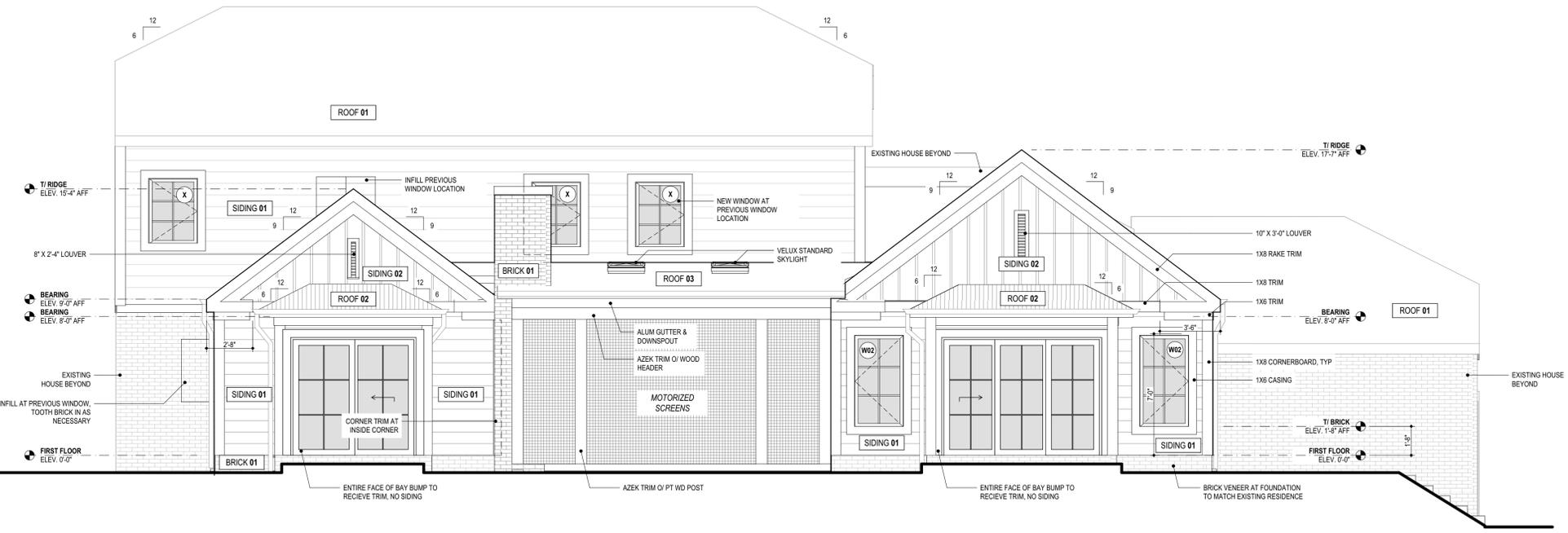
3/2/2026

EXTERIOR ELEVATIONS



**1 PROPOSED WEST ELEVATION**

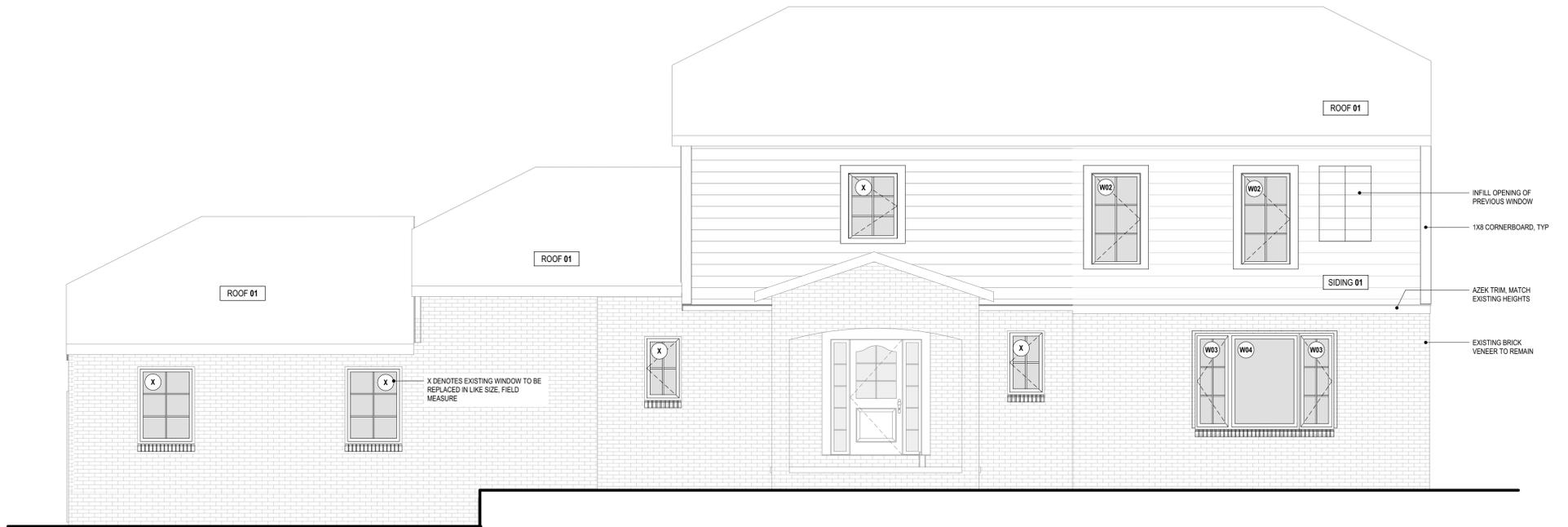
SCALE: 1/4" = 1'-0"



**2 PROPOSED NORTH ELEVATION**

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





**EXTERIOR ELEVATION GENERAL NOTES**

ALL TRIM AT WINDOWS AND DOORS TO AZEK, PAINTED.  
 ALL EXPOSED WOOD ELEMENTS AND TONGUE AND GROOVE CEILINGS IS TO BE PINE, STAINED AND SEALED. COORDINATE FINAL COLOR WITH OWNER.

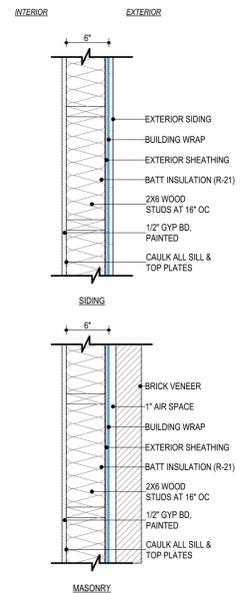
ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION TO ENSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.

**MATERIAL SCHEDULE**

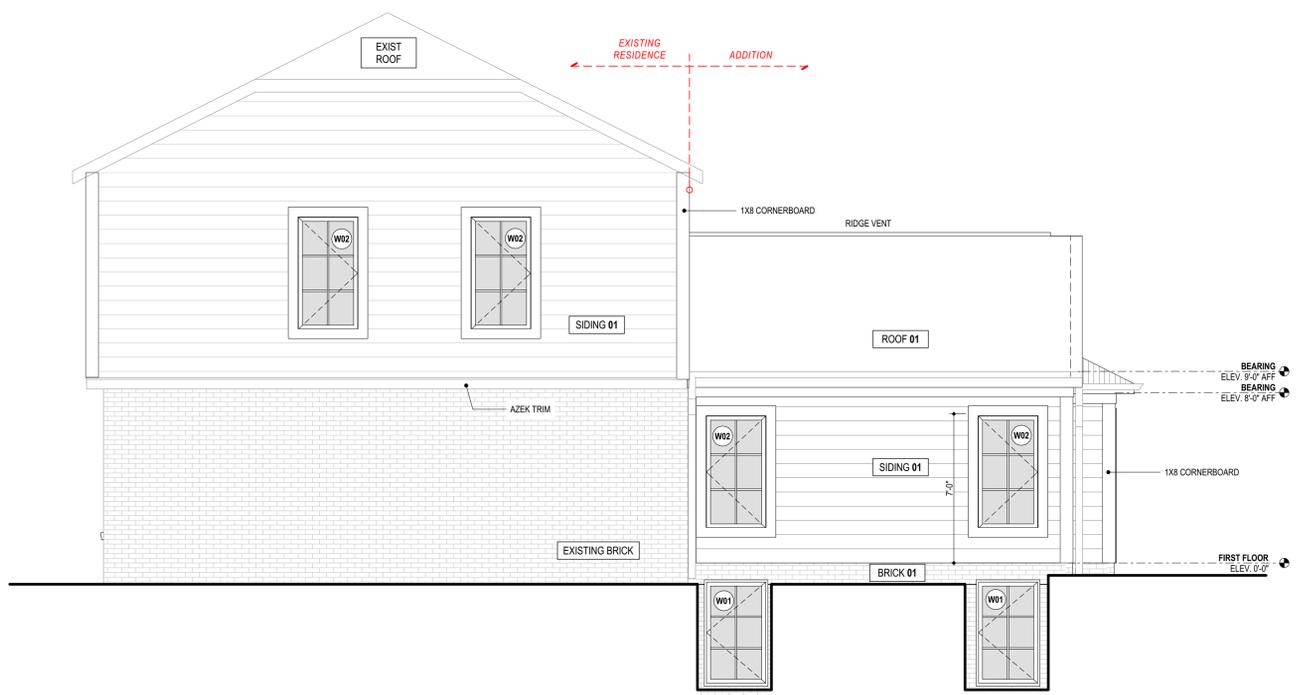
- SIDING 01 HORIZONTAL SIDING**  
 FIBER CEMENT LAP SIDING, 6" EXPOSURE  
 COLOR: PREFINISHED OR COLOR BY OWNER
- SIDING 02 VERTICAL SIDING**  
 FIBER CEMENT BOARD AND AZEK BATTENS  
 COLOR: PREFINISHED OR COLOR BY OWNER
- BRICK 01 BRICK VENEER**  
 MASONRY VENEER W/ BRICK TIES, MATCH EXISTING RESIDENCE
- ROOF 01 ASPHALT SHINGLE ROOF**  
 LANDMARK PRO, COLOR BY OWNER
- ROOF 02 METAL STANDING SEAM ROOF**  
 METAL ROOF
- ROOF 03 RUBBER ROOF**  
 LOW SLOPE RUBBER ROOF MEMBRANE ROOF
- WINDOWS**  
 ALUMINUM CLAD WOOD WINDOW  
 ANDERSEN A SERIES
- SCREENS**  
 MOTORIZED AND FIXED SCREENS

**EXTERIOR WALL TYPES**

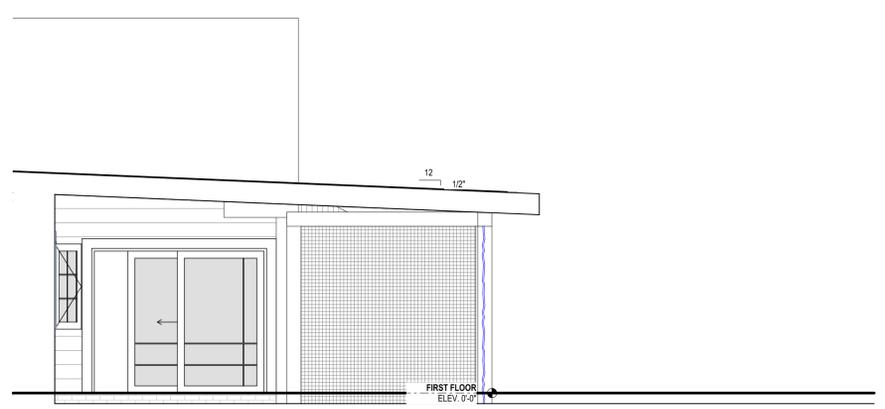
NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW



**1 PROPOSED SOUTH ELEVATION**  
 SCALE: 1/4" = 1'-0"



**2 PROPOSED EAST ELEVATION**  
 SCALE: 1/4" = 1'-0"



**3 PARTIAL PROPOSED EAST ELEVATION**  
 SCALE: 1/4" = 1'-0"

WINDOW SCHEDULE		
ID	QTY	W x H
W01	4	3'-0" x 5'-0"
W02	12	3'-0" x 5'-6"
W03	2	2'-0" x 5'-6"
W04	1	4'-0" x 5'-6"
X	1	3'-0" x 3'-0"
X	2	2'-1" x 3'-8"
X	2	3'-3" x 4'-5 27/64"
X	4	3'-0" x 4'-0"

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EXTERIOR ELEVATIONS

UNLIMITED POSSIBILITIES  
TO CREATE YOUR ORIGINAL





## E-SERIES WINDOWS & PATIO DOORS

The inspiration for your home can come from anywhere and with E-Series windows and patio doors from Andersen, you'll find custom colors, unlimited design options and dynamic sizes and shapes to create the home you've always imagined.

Whether you're looking to make a design statement or to simply recreate a classic, E-Series products give you more freedom to use your imagination and create your personal vision of home. And like all Andersen products, they are supported by over 115 years of commitment to quality and service that can only come from one of the most trusted names in the industry. For more information, please visit [andersenwindows.com/e-series](https://andersenwindows.com/e-series).





FSB® hardware features clean lines in a satin finish for a thoroughly modern look.



Dark colors and narrow profile options on windows, patio doors and grille options offer a truly contemporary style.

## MODERN STYLE MADE EASY

Modern home styles incorporate clean lines, simple forms and open floor plans. They often feature floor-to-ceiling windows or glass doors with narrow profiles to maximize light and bring the outdoors in. Explore our Home Style library to see how E-Series products can help you achieve a modern home style. Visit [andersenwindows.com/stylelibrary](https://andersenwindows.com/stylelibrary) to learn more.



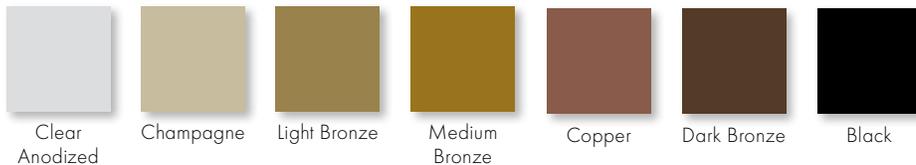
# DO YOU DREAM IN COLOR?

While our large selection of 50 exterior colors covers a lot of ground, inspiration comes in infinite hues. Let us match a paint chip, a photograph or a favorite work of art to bring your dream color into the light of day. Or, choose from a selection of anodized finishes for a rich, lustrous metallic appearance that cannot peel or flake and is not affected by sunlight.\*

## EXTERIOR COLORS



## 7 ANODIZED FINISHES



Design your window at  
[andersenwindows.com/design-tool](https://andersenwindows.com/design-tool)

## CUSTOM EXTERIORS OR 2-, 3- AND 4-TONE EXTERIORS

Choose a custom exterior color to get just the right color for your design. And, with our 2-, 3- and 4-tone color combinations, the sky's the limit. Mix and match up to four of our 50 exterior colors for a combination look that's all your own.



Colony white and black

## EXTERIOR TRIM

Choose exterior trim in either a flat casing, brick mould or sill nosing profile to add curb appeal to your home.



2" brick mould and 1 1/2" sill nose, shown on a casement window

\*Visit [andersenwindows.com/warranty](https://andersenwindows.com/warranty) for details. Printing limitations prevent exact color duplication. Please see your Andersen supplier for actual color samples.



# A RANGE OF INTERIORS — INCLUDING YOURS

Our distinctive woods add uncommon flair to any room. Each wood species has its own character, grain and staining capabilities so you can select one that makes your windows stand out or one that matches with your interior décor. Our high-quality, factory-applied stains offer you convenience along with beauty. Choose from a variety of wood finishes or select one of our painted options. Or for a natural look, select our clear coat option.

## INTERIOR WOOD SPECIES



## FACTORY-FINISHED INTERIORS



All interior finish options are shown on pine. Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

## INTERIOR PAINTED OPTIONS



Available on pine.

## CUSTOM INTERIORS

Need an exotic wood species to complete your home or a special finish for just the right look or to match existing woodwork? We offer custom wood species and custom stain, paint or color matching for just the right finish to your design.

\*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.

\*\*Dark bronze and black also available on maple.

†Anodized silver is available on maple only.

Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.



## DESIGN VERSATILITY

Extruded aluminum's strength and versatility allow us to offer beautiful made-to-order design solutions for practically any combination of shapes and styles you can imagine. And because our exterior frame, sash and trim components utilize extruded aluminum, our products feature clean, architecturally accurate lines and details to complement your home's style.

## ENERGY-SAVING GLASS

We have the glass you need to get the performance you want, including a variety of Low-E4® glass options to help control heating and cooling costs in any climate.

## LOW-MAINTENANCE EXTERIORS

Baked-on silicone polyester enamel exteriors offer virtually maintenance-free performance and durability. They're warranted for 10 years against chalking and color change and for 20 years against cracking, checking, peeling, flaking, blistering and loss of adhesion.\*

## BUILT STRONG

E-Series windows and patio doors are made with heavy-gauge, extruded aluminum-clad wood sash and frames. Our thick cladding offers greater structural capabilities than thinner, roll-form aluminum, while providing a superior exterior finish that resists the elements of inclement weather, abrasion and impact.

## BUILT FOR YEARS TO COME\*

Most other window and patio door warranties end when a home is sold, but our coverage — 20 years on glass, 10 years on non-glass parts — transfers from each owner to the next. And because it is not prorated, the coverage offers full benefits, year after year, owner after owner.\* So it adds real value when you decide to sell your home.

**OWNER2OWNER®**  
**LIMITED WARRANTY**

\*Visit [andersenwindows.com/warranty](https://andersenwindows.com/warranty) for details.

# BEST-IN-CLASS GLASS

Glass can affect energy efficiency more than any other part of a window or patio door — and not all glass performs the same. Some types of glass do a better job at insulating your home. Others provide greater clarity. You can even choose glass to filter out specific kinds of light. Andersen offers one of the industry’s widest arrays of glass options, enabling you to find the right choice for your climate and your home. Choose from these High-Performance glass options.

GLASS	ENERGY		LIGHT	
	U-Factor How well a product prevents heat from escaping.	Solar Heat Gain Coefficient How well a product blocks heat caused by sunlight.	Visible Light Transmittance How much visible light comes through a product.	UV Protection How well a product blocks ultraviolet rays.
<b>SmartSun™</b> Thermal control similar to tinted glass, with visible light transmittance similar to Low-E4 glass.	● ● ● ○	● ● ● ●	● ● ● ○	● ● ● ●
<b>SmartSun with HeatLock® Coating</b> Applied to the room-side surface, it reflects heat back into the home and improves U-Factors values.	● ● ● ●	● ● ● ●	● ● ○ ○	● ● ● ●
<b>Low-E4®</b> Outstanding overall performance for climates where both heating and cooling costs are a concern.	● ● ● ○	● ● ● ○	● ● ● ○	● ● ● ○
<b>Low-E4 with HeatLock Coating</b> Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values.	● ● ● ●	● ● ● ○	● ● ● ○	● ● ● ○
<b>Sun</b> Outstanding thermal control in southern climates where less solar heat gain is desired.	● ● ● ○	● ● ● ●	● ○ ○ ○	● ● ● ○
<b>PassiveSun®</b> Ideal for northern, passive solar construction applications where solar heat gain is desired.	● ● ● ○	● ○ ○ ○	● ● ● ○	● ● ● ○
<b>Triple-Pane with Low-E coatings on two surfaces</b> Three panes of glass combine with either argon gas blend air or Low-E coatings to provide enhanced energy performance.	● ● ● ●	● ● ● ○	● ● ● ○	● ● ● ●
<b>Clear Dual-Pane</b> High visibility with basic thermal performance.	● ○ ○ ○	○ ○ ○ ○	● ● ● ●	○ ○ ○ ○

Center of glass performance only. Ratings based on glass options as of May 2021. Visit [andersenwindows.com/energystar](http://andersenwindows.com/energystar) for ENERGY STAR® map and NFRC total unit performance data.

## HEATLOCK® TECHNOLOGY

Our HeatLock coating can increase the energy efficiency of any E-Series window or patio door with Low-E4 or SmartSun glass. Applied to the room-side glass surface, it reflects heat back into the home for improved performance.

## SPECIALTY GLASS

Select from our decorative glass collections or combine beveled, frosted, grooved, colored or textured glass with three coming options to create your own design. Specialty glass includes tinted glass, spandrel glass and Mapes panels as well as rain, reeded, satin etch and obscure glass options.

## GLASS SPACER OPTIONS

Choose from stainless steel, black or white glass spacers to create a customized look. Add full divided light grilles and the grille spacer bar between the glass will match the selected glass spacer color.



## STORMWATCH® PATIO DOORS

Andersen® E-Series patio doors are available with impact-resistant glass and structural upgrades to meet the tough building codes of hurricane-prone coastal areas. Visit [andersenwindows.com/coastal](http://andersenwindows.com/coastal) for more information and see your local building code official for specific requirements in your area.



For more details on glass options, visit [andersenwindows.com/glass](http://andersenwindows.com/glass).



# DESIGNS TO MATCH ANY STYLE

E-Series patio door hardware\* is available in a variety of different designs to match virtually any style. Additional hardware options such as exterior keyed locks, matching hinge finishes and more are also available.



Bold name denotes finish shown.

## HARDWARE FINISHES



\*Hardware sold separately.

Tribeca and Albany hardware are zinc die cast with powder-coated durable finish. Other hardware is solid forged brass. Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use. Bright brass and satin nickel finishes on patio door hardware feature a 10-year limited warranty. Matching hinges available in most finishes for inswing patio doors. Printing limitations prevent exact finish replication. See your Andersen supplier for actual finish samples.

# DETAILS THAT MAKE AN IMPACT

E-Series window hardware\* offers you the styles and finishes to enhance or complement any home's décor and style.

## Casement & Awning



Operator Handle & Cover

**Antique Brass** | Black | Bright Chrome  
Bronze | Gold | Oil Rubbed Bronze | Pewter  
Polished Brass | Satin Chrome | White

## French Casement



Operator Handle & Cover



Sash Lock

Antique Brass | **Black**  
Bright Chrome | Bronze  
Polished Brass  
Satin Chrome | White

## Double-Hung



Sash Lift



Lock

Antique Brass | Black | Bright Chrome | Bronze | Gold  
Oil Rubbed Bronze | **Pewter** | Polished Brass | Satin Chrome | White

## Gliding Windows

Antique Brass  
**Black** | Bright Chrome  
Bronze | Gold  
Oil Rubbed Bronze  
Pewter | Polished Brass  
Satin Chrome | White



Lock

**Black**  
Bronze  
White



Slim Line Sash Pull

Bold name denotes finish shown.

## HARDWARE FINISHES



Antique Brass | Black | Bright Chrome | Bronze | Gold | Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

\*Hardware sold separately.

Oil rubbed bronze is a "living" finishes that will change with time and use. Printing limitations prevent exact finish replication. See your Andersen supplier for actual finish samples.



## FSB® HINGED PATIO DOOR HARDWARE

Durable FSB hinged door hardware† features clean lines and a sleek finish for a thoroughly modern look.



## YALE® ASSURE LOCK®

Monitor, lock and unlock from anywhere with the Yale Assure Lock.† This slim, sleek keyless lock is designed exclusively for Andersen® hinged patio doors† and integrates with a wide range of smart home platforms.



\*Hardware sold separately.

\*\*FSB style 1102 is not available in black anodized aluminum.

†Available on select hinged doors, see your Andersen supplier for details.

Printing limitations prevent exact finish replication. See your Andersen supplier for actual finish samples.

All marks where denoted are trademarks of their respective owners. Yale manufactures and supports the limited warranty for Yale Assure Lock for Andersen patio doors.

# BETWEEN-THE-GLASS BLINDS & SHADES

Privacy options you simply have to see. E-Series blinds or shades between the glass provide the ultimate in practicality for your home. Our systems not only protect the blinds or shades, they also greatly reduce your cleaning time. Which means with Andersen, you have both privacy and convenience at your fingertips.



System 3 Shades

System 3 Blinds

## BLINDS-BETWEEN-THE-GLASS

Blinds-between-the-glass can be added to many of our patio doors and rectangular picture windows. The blinds are placed between two panes of glass, available in three popular colors and can tilt, raise or lower\* conveniently with a single control cord.



Control Cord

### Blinds



Almond

Tan

White

## SYSTEM 3 BLINDS & SHADES

System 3 blinds and shades create a triple-glazed window that provides greater energy efficiency and protects your blind or shade from damage. They are perfect for casement, awning and picture windows, and hinged patio doors. Frames are available in tan, gold, white or wood veneer.

### Blinds



Almond

Tan

White

### Shades



Almond

Pearl

Vanilla

Winter White

### Control Knobs



Bronze

White

Black

Gold

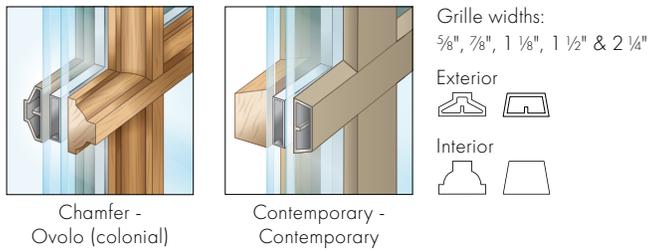
\*Not all sizes of blinds-between-the-glass are retractable.  
Printing limitations prevent exact color duplication. Please see your Andersen supplier for actual color samples.

# ARCHITECTURALLY AUTHENTIC GRILLES

We offer a variety of grille styles and patterns to choose from, or design your own with varying lines, curves and shapes.

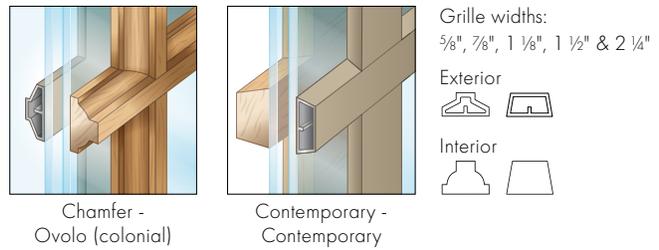
## FULL DIVIDED LIGHT

Features permanent interior and exterior grilles with grille spacer bars between two panes of insulating glass. A traditional divided light look with modern energy efficiency.



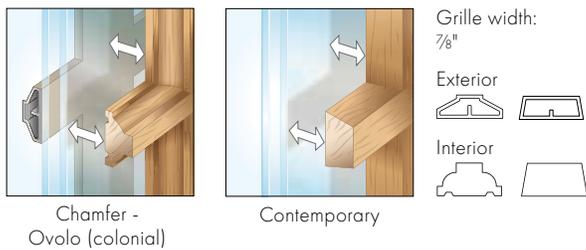
## SIMULATED DIVIDED LIGHT

An economical solution featuring permanent interior and exterior grilles without grille spacer bars.



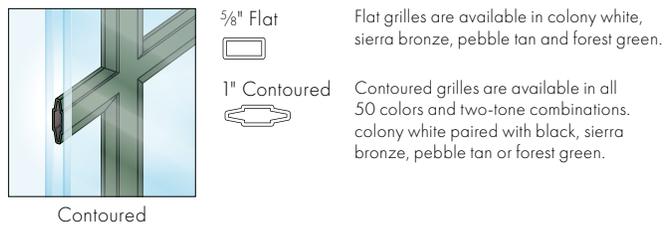
## REMOVABLE INTERIOR WOOD GRILLES

Removable interior wood grilles. Available with optional surround and an optional permanent exterior grille, shown to left below.



## FINELIGHT™ GRILLES-BETWEEN-THE-GLASS

Aluminum grilles conveniently placed between two panes of glass for easy cleaning inside and out.



# SCREEN OUT THE INSECTS, NOT THE VIEW

E-Series insect screens let the beauty of the outdoors in, while keeping even small insects out. Choose from a wide selection of insect screen styles, including options that blend seamlessly with your window.

## TRUSCENE® INSECT SCREENS\*

TruScene insect screens for windows are made with a micro-fine stainless steel mesh that offers 50% more clarity than our conventional aluminum mesh insect screens. TruScene insect screens let in 25% more fresh air;† all while keeping out unwanted small insects.

## WOOD VENEER INSECT SCREENS

For a clean appearance, E-Series interior window insect screens can feature a wood veneer to blend into your window.

## RETRACTABLE INSECT SCREENS FOR WINDOWS AND PATIO DOORS

Retractable insect screens for casement and awning windows offer a sleek addition to any home. In place, the insect screen keeps insects out. When retracted, it provides a beautiful clear view.

For patio doors‡, retractable insect screens are built with an innovative color-matched housing that hides the insect screen when not in use. It's there when you need it and gone when you don't.



Retractable insect screen for casement and awning windows.

\*TruScene wood-veneered insect screens utilize a different frame profile than other E-Series wood-veneered insect screens.

††TruScene insect screens let in over 25% more fresh air than standard Andersen fiberglass insect screens.

‡Retractable insect screens are available on hinged inswing, hinged outswing and gliding patio doors. See your Andersen supplier for details.





## THE ENVIRONMENT HAS A BUSINESS PARTNER

Respect for the environment is nothing new at Andersen. For more than a century, it's been part of who we are. Our commitment to recycle and reclaim materials began simply because it was good business. Now it's part of our broader commitment to sustainability and responsible stewardship of all our resources. Andersen is committed to providing you with long-lasting, energy-efficient windows and doors. Visit [andersenwindows.com/sustainability](https://andersenwindows.com/sustainability) for more information.



Andersen makes windows and doors with options that make them ENERGY STAR® v. 6.0 certified throughout the U.S.



Andersen is a charter member of the **U.S. Green Building Council** and a strong supporter of its LEED® (Leadership in Energy and Environmental Design) National Green Building Standard rating system.



\*Visit [andersenwindows.com/warranty](https://andersenwindows.com/warranty) for details.  
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# 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 <sup>3</sup>	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 <sup>2</sup> ·F))/inch	As reported	2.07
	Actual Thermal Conductivity		(K <sub>eff</sub> )		6.62
	Thermal Resistance		R=1/ K <sub>eff</sub>		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.

**GAF** TimberlineHDZ<sup>®</sup>  
High Definition<sup>®</sup> Lifetime<sup>®</sup> Shingles



## America's #1-selling shingle just got better — again

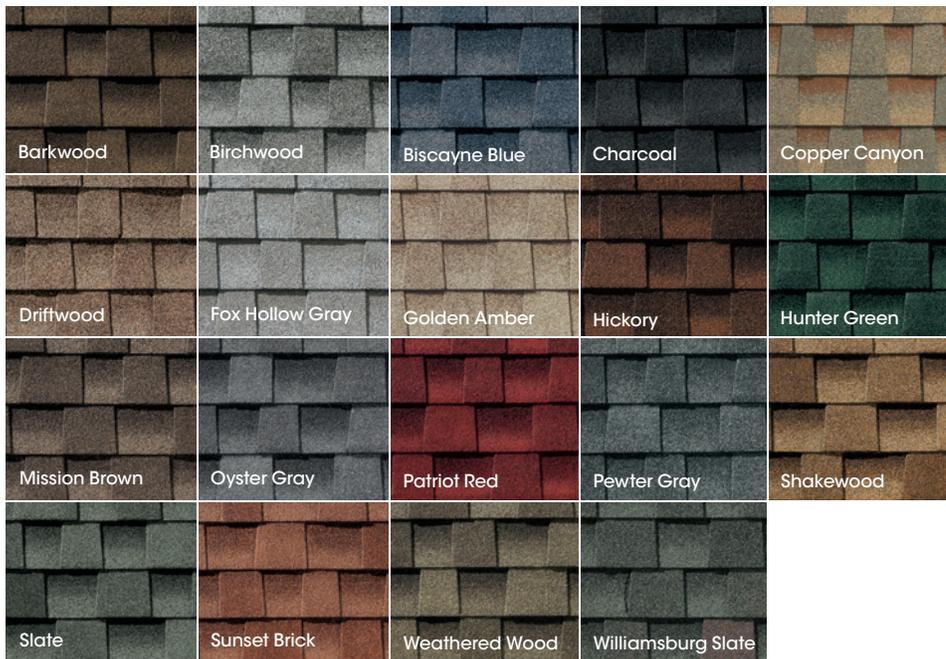
With GAF time-release algae-fighting technology and LayerLock<sup>®</sup> technology, TimberlineHDZ<sup>®</sup> offers everything you can expect from an architectural shingle roof, and more.



## Benefits:

- **LayerLock® technology** — mechanically fuses the common bond between overlapping shingle layers
- **Up to 99.9% nailing accuracy** — the StrikeZone® nailing area is so easy to hit that a roofer placed 999 out of 1,000 nails correctly in our test<sup>1</sup>
- **WindProven™ Limited Wind Warranty** — when installed with the required combination of GAF accessories, Timberline HDZ® shingles are eligible for a wind warranty with no maximum wind speed limitation<sup>2</sup>
- **Dura Grip™ sealant** pairs with the microgranule surface of the StrikeZone® nailing area, and an asphalt-to-asphalt monolithic bond cures for durability, strength, and exceptional wind-uplift performance
- **25-year StainGuard Plus™ Algae Protection Limited Warranty** against blue-green algae discoloration.<sup>3</sup> Proprietary GAF time-release algae-fighting technology helps protect your shingles from unsightly stains.
- **For the best look** — use TimberTex® premium ridge cap shingles or TimberCrest® premium SBS-modified ridge cap shingles

## Colors:



## Harvest Blend Colors<sup>5</sup>



## Product details:

### Product/System Specifics

- Fiberglass asphalt construction
- **Dimensions (approx.):** 13 1/4" x 39 3/8" (337 mm x 1,000 mm)
- **Exposure:** 5 5/8" (143 mm)
- **Bundles/Square:** 3
- **Pieces/Square:** 64
- **StainGuard Plus™ Algae Protection Limited Warranty<sup>3</sup>**
- **Hip/Ridge:** TimberTex®; TimberCrest®; Seal-A-Ridge®; Z®Ridge; Ridglass®<sup>4</sup>
- **Starter:** Pro-Start®; QuickStart®; WeatherBlocker™

### Applicable Standards & Protocols:

- Passes UL 2218 Impact-Resistance Test with Class 3 rating
- UL Listed to ANSI/UL 790 Class A
- State of Florida Approved
- Classified by UL in accordance with ICC-ES AC438
- Meets ASTM D7158, Class H
- Meets ASTM D3161, Class F
- Meets ASTM D3018 Type 1
- Meets ASTM D3462<sup>5</sup>
- Miami-Dade County Product Control Approved
- ICC-ES Evaluation Reports ESR-1475 and ESR-3267
- Meets Texas Department of Insurance Requirements
- Rated by the CRRC; Can be used to comply with Title 24 Cool Roof Requirements (some colors)

<sup>1</sup> Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence [or eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime shingles only. See the *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions. Visit [gaf.com/LRS](http://gaf.com/LRS) for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime shingle and at least 3 qualifying GAF accessories. See the *GAF Roofing System Limited Warranty* for complete coverage and restrictions. For installations not eligible for the *GAF Roofing System Limited Warranty*, see the *GAF Shingle & Accessory Limited Warranty*. Visit [gaf.com/LRS](http://gaf.com/LRS) for qualifying GAF products.

<sup>2</sup> Results based on study conducted by Home Innovation Research Labs, an independent research lab, comparing installation of Timberline HDZ® Shingles to Timberline HDZ® Shingles on a 16-square roof deck using standard 4-nail nailing pattern under controlled laboratory conditions. Actual results may vary.

<sup>3</sup> 25-year WindProven® Limited Wind Warranty on GAF shingles with LayerLock® technology requires the use of GAF starter strips, roof deck protection, ridge cap shingles, and leak barrier or attic ventilation. See *GAF Roofing System Limited Warranty* for complete coverage and restrictions. Visit [gaf.com/LRS](http://gaf.com/LRS) for qualifying GAF products. For installations not eligible for the *GAF WindProven™ Limited Warranty*, see the *GAF Shingle & Accessory Limited Warranty*.

<sup>4</sup> 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions and qualifying products.

<sup>5</sup> Harvest Blend colors are only available on TimberTex® Ridge Cap Shingles, Seal-A-Ridge® Ridge Cap Shingles, and TimberCrest® Premium SBS-Modified Ridge Cap Shingles.

<sup>6</sup> Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at time of manufacture.



**Note:** It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

We protect what matters most™

