

HISTORIC AND DESIGN REVIEW COMMISSION

December 06, 2017

HDRC CASE NO: 2017-497
ADDRESS: 622 CEDAR ST
LEGAL DESCRIPTION: NCB 2912 BLK 1 LOT S 25 FT OF 6 & N 40 FT OF 7
ZONING: RM-4 H
CITY COUNCIL DIST.: 1
DISTRICT: King William Historic District
APPLICANT: Felix Ziga/Ziga Architecture Studio
OWNER: Maureen & Ricardo Ruiz
TYPE OF WORK: Construction of a rear addition, reconstruction of a side addition and construction of a rear porch
APPLICATION RECEIVED: November 8, 2017
60-DAY REVIEW: January 7, 2017
REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to construct an addition at the rear of the primary historic structure to replace an existing, rear addition to include a side addition and rear yard deck.

APPLICABLE CITATIONS:

Historic Design Guidelines, Chapter 3, Guidelines for Additions

1. Massing and Form of Residential Additions

A. GENERAL

- i. Minimize visual impact*—Site residential additions at the side or rear of the building whenever possible to minimize views of the addition from the public right-of-way. An addition to the front of a building would be inappropriate.
- ii. Historic context*—Design new residential additions to be in keeping with the existing, historic context of the block. For example, a large, two-story addition on a block comprised of single-story homes would not be appropriate.
- iii. Similar roof form*—Utilize a similar roof pitch, form, overhang, and orientation as the historic structure for additions.
- iv. Transitions between old and new*—Utilize a setback or recessed area and a small change in detailing at the seam of the historic structure and new addition to provide a clear visual distinction between old and new building forms.

B. SCALE, MASSING, AND FORM

- i. Subordinate to principal facade*—Design residential additions, including porches and balconies, to be subordinate to the principal façade of the original structure in terms of their scale and mass.
- ii. Rooftop additions*—Limit rooftop additions to rear facades to preserve the historic scale and form of the building from the street level and minimize visibility from the public right-of-way. Full-floor second story additions that obscure the form of the original structure are not appropriate.
- iii. Dormers*—Ensure dormers are compatible in size, scale, proportion, placement, and detail with the style of the house. Locate dormers only on non-primary facades (those not facing the public right-of-way) if not historically found within the district.
- iv. Footprint*—The building footprint should respond to the size of the lot. An appropriate yard to building ratio should be maintained for consistency within historic districts. Residential additions should not be so large as to double the existing building footprint, regardless of lot size.
- v. Height*—Generally, the height of new additions should be consistent with the height of the existing structure. The maximum height of new additions should be determined by examining the line-of-sight or visibility from the street. Addition height should never be so contrasting as to overwhelm or distract from the existing structure.

3. Materials and Textures

A. COMPLEMENTARY MATERIALS

- i. Complementary materials*—Use materials that match in type, color, and texture and include an offset or reveal to distinguish the addition from the historic structure whenever possible. Any new materials introduced to the site as a result

of an addition must be compatible with the architectural style and materials of the original structure.

ii. Metal roofs—Construct new metal roofs in a similar fashion as historic metal roofs. Refer to the Guidelines for Alternations and Maintenance section for additional specifications regarding metal roofs.

iii. Other roofing materials—Match original roofs in terms of form and materials. For example, when adding on to a building with a clay tile roof, the addition should have a roof that is clay tile, synthetic clay tile, or a material that appears similar in color and dimension to the existing clay tile.

4. Architectural Details

A. GENERAL

i. Historic context—Design additions to reflect their time while respecting the historic context. Consider character-defining features and details of the original structure in the design of additions. These architectural details include roof form, porches, porticos, cornices, lintels, arches, quoins, chimneys, projecting bays, and the shapes of window and door openings.

ii. Architectural details—Incorporate architectural details that are in keeping with the architectural style of the original structure. Details should be simple in design and compliment the character of the original structure. Architectural details that are more ornate or elaborate than those found on the original structure should not be used to avoid drawing undue attention to the addition.

iii. Contemporary interpretations—Consider integrating contemporary interpretations of traditional designs and details for additions. Use of contemporary window moldings and door surroundings, for example, can provide visual interest while helping to convey the fact that the addition is new.

FINDINGS:

- a. The historic structure at 622 Cedar was constructed circa 1925 and is found on the 1951 Sanborn Map. The structure was constructed in the Craftsman style and features a front facing gabled roof, a side gabled porch roof and a brick chimney.
- b. The applicant received conceptual approval at the October 4, 2017, Historic and Design Review Commission hearing to construct a rear addition with the following stipulations:
 1. That the proposed wood siding match that of the historic structure or feature an exposure of no more than four (4) inches.
 2. That the applicant install wood or aluminum clad wood windows should be installed. White manufacturer's color is not allowed, and color selection must be presented to staff. There should be a minimum of two inches in depth between the front face of the window trim and the front face of the top window sash. This must be accomplished by recessing the window sufficiently within the opening or with the installation of additional window trim to add thickness. Window trim must feature traditional dimensions and an architecturally appropriate sill detail. Window track components must be painted to match the window trim or concealed by a wood window screen set within the opening. Details on each should be submitted to staff for review.
 3. That the proposed fixed windows on the east elevation be sash windows.
 4. That the standing seam metal roof feature panels that are 18 to 21 inches wide, seams that are 1 to 2 inches tall, a crimped ridge seam and a standard galvalume finish.
- c. REAR ADDITION – At the rear of the primary historic structure, the applicant has proposed to replace an existing, rear addition to include a side addition. The existing, rear addition, was constructed circa 1960 and features steel casement windows and a shed roof. The applicant has proposed to remove this existing addition and construct a new addition to replace the existing addition's footprint as well as extend to the side (west) of the footprint of the primary historic structure.
- d. REAR ADDITION – The Guidelines for Additions 1.A. states that additions should be sited to minimize visual impact from the public right of way, should be designed to be in keeping with the historic context of the block, should utilize a similar roof form and should feature a transition between the old and the new. The applicant has proposed for the rear addition to feature a side gabled roof that is subordinate to the roof form and height of the historic structure and has located the structure towards the rear of the primary historic structure. While the proposed addition will extend to the side of the primary structure, it is set back significantly from the front façade and features massing that is generally consistent with that of the primary historic structure. Staff finds the proposed location and massing of the proposed addition to be appropriate.

- e. **SCALE, MASS & FORM** – Regarding scale, mass and form, the applicant has proposed for the addition to feature a roof height that is subordinate to that of the primary historic structure and generally a footprint that is appropriate for the footprint of the primary historic structure.
- f. **MATERIALS** – The applicant has proposed materials that include salvaged wood siding and windows from the historic structure, wood lap siding with a four inch exposure and a standing seam metal roof.
- g. **WINDOWS** – The applicant has noted that all new windows will be wood with the exception of once fixed window that has been proposed in a shower room. The applicant has noted that the installation of a fixed window will match the height of the existing fixed window on the west elevation. The applicant has proposed a vinyl window to address moisture concerns due to the low sill height (5' – 9") in the shower. Staff finds the installation of this specific vinyl window to be appropriate; however, the window should be colored and profiled to match the existing wood windows. Wood windows from the existing structure will be salvaged and used throughout the addition. White manufacturer's color is not allowed, and color selection must be presented to staff. There should be a minimum of two inches in depth between the front face of the window trim and the front face of the top window sash. This must be accomplished by recessing the window sufficiently within the opening or with the installation of additional window trim to add thickness. Window trim must feature traditional dimensions and an architecturally appropriate sill detail. Window track components must be painted to match the window trim or concealed by a wood window screen set within the opening. Details on each should be submitted to staff for review.
- h. **REAR DECK** – At the rear of the proposed addition, the applicant has proposed to construct a wood deck. Staff finds the profile, materials and location of the proposed deck to be appropriate.

RECOMMENDATION:

Staff recommends approval based on findings a through h with the following stipulations:

- i. That the proposed windows meet the specifications noted in finding g.
- ii. That the standing seam metal roof feature panels that are 18 to 21 inches wide, seams that are 1 to 2 inches tall, a crimped ridge seam and a standard galvalume finish.

CASE MANAGER:

Edward Hall



Flex Viewer

Powered by ArcGIS Server

Printed: Sep 26, 2017

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622 Cedar Street

Cedar St Cedar St Cedar St Cedar St Cedar St Cedar St Cedar St Cedar St Cedar St Cedar St

363

TEX 40

S B E U O I U M E

S. PRESA

LIBERTY ST
W CAROLINA ST

PRESA

360

2992

2992

CEMBLER

W CAROLINA

COMMERCIAL AV

364

S. ST. MARYS

(GARDEN)

WESTMINSTER PRESBYTERIAN CHURCH

EDUCATIONAL BLDG

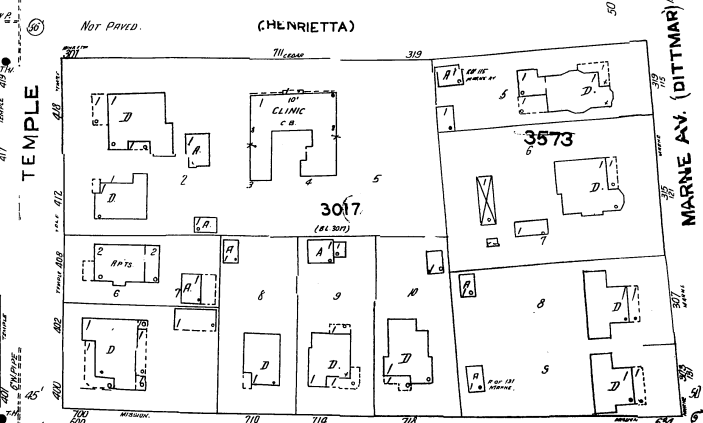
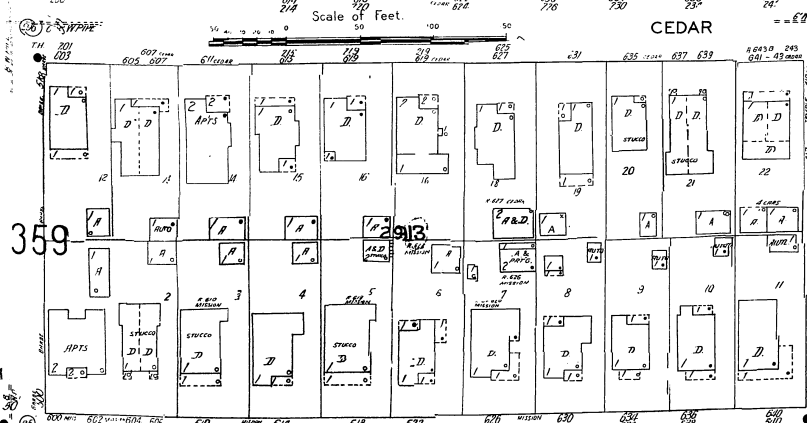
2912

622

360

BARBE

359



MISSION 440



622 CEDAR ST. – NARRATIVE

Requesting final approval to reconstruct an existing non-historic rear addition and to construct a new side addition. The proposed reconstruction will keep the existing footprint but will modify the roof so that the floor height in that portion of the house, matches the original historic house.

The new side addition will be set back as far from the front of the house as possible to minimize impact and visibility from the street. The proposed addition will be shorter than the main roof on the historic house, and will be obscured by existing vegetation and an existing privacy fence. The proposed addition will have a gable roof to match the house. Existing details such as moldings will be carried over to the addition in a simplified form to tie in the new with the old. The addition will have a standing seam metal roof to match existing, wood frame windows and Hardie Artisan lap siding with a 4" exposure, smooth finish and mitered corners. New windows will be Pella Architect Traditional All Wood (noted as windows A-F and L).

There are two options presented for the side elevation of the addition, one showing a double-hung window and another option (preferred) showing a rectangular awning window noted as window M. There are two main reasons why the preferred option is necessary. The window inside the shower will be facing the neighbor's yard which due to grade difference is higher than this property's lot. If a double-hung window is used, the sill will be only 4'-5" which is too low to provide any privacy. A low sill in addition to having a higher grade at the neighbor's yard will create privacy issues that will need to be addressed. To mitigate these issues, the preferred option includes a rectangular awning window with a raised sill of 5'-9" (to match a rectangular fixed window that exists on the opposite side elevation). If this option is not acceptable, then privacy glass will be necessary if a double-hung window is used. In addition, we propose to use Pella 350 Series (vinyl) for this window to address moisture and water splashing that may be caused by the low sill. This window will be set into the opening to match the rest of the windows being installed.

Seven existing wood windows will be removed and salvaged to be reused (noted as windows G-K and N-O). Teardrop siding being removed will also be salvaged after removal.

A rear wood deck will be constructed to allow access to the backyard from the back of the house.



FRONT



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EAST



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EAST



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WEST



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REAR



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eMAIL INFO@STUDIOZIGA.COM
WWW.STUDIOZIGA.COM

RUIZ RESIDENCE
622 CEDAR ST.,
SAN ANTONIO, TX 78210
MAUREEN AND RICARDO RUIZ

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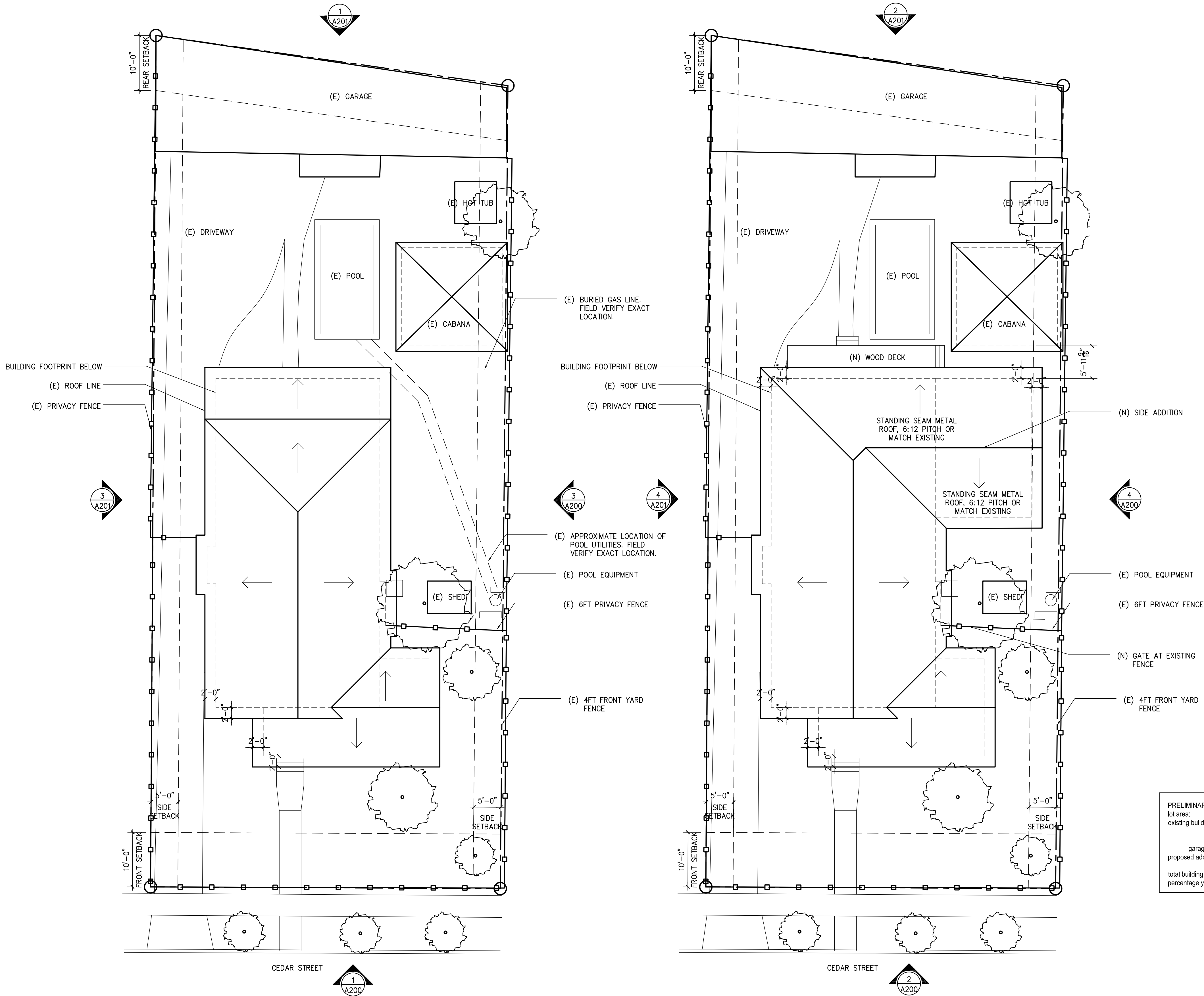
ISSUE		
#	DATE	DESCRIPTION
1	09/15/2017	CLIENT REVIEW
2	10/10/2017	CLIENT REVIEW
3	11/2/2017	CLIENT REVIEW

EXISTING & PROPOSED
SITE/ROOF PLAN

PROJECT NO.	17-132
DATE:	11.2.2017
DRAWN BY:	AMZ / FJZ
REVIEWED BY:	FJZ

PROJECT ARCHITECT:
FELIX J. ZIGA JR., AIA
TEXAS LICENSE NO. 24683

SP100



1 EXISTING SITE/ROOF PLAN
SCALE: 1"=10'-0"



2 PROPOSED SITE/ROOF PLAN
SCALE: 1"=10'-0"





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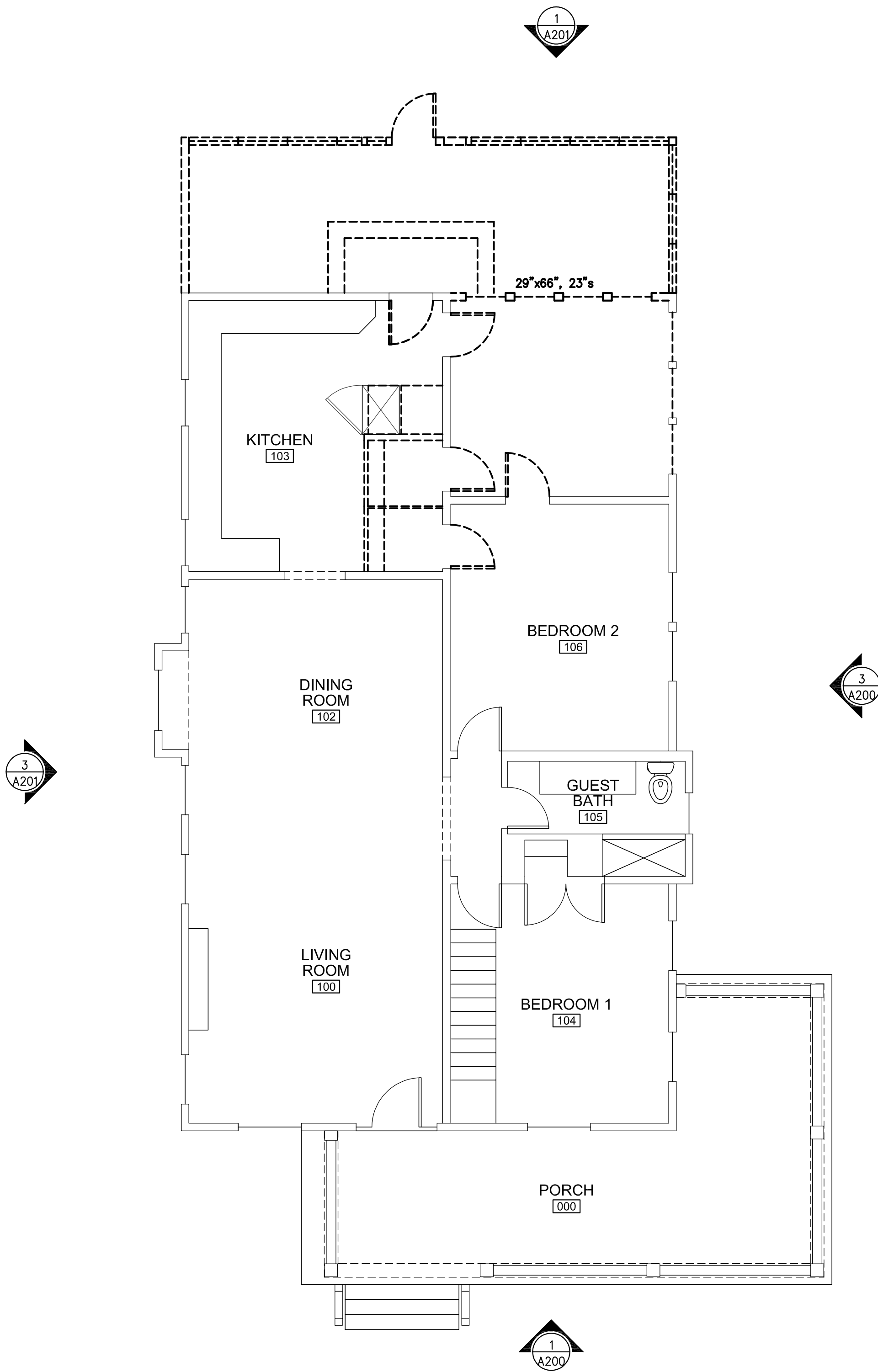
ISSUE		
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1	09/15/2017	CLIENT REVIEW
2	10/10/2017	CLIENT REVIEW
3	11/2/2017	CLIENT REVIEW

EXISTING & PROPOSED FLOOR PLAN

PROJECT NO.	17-132
DATE:	11.2.2017
DRAWN BY:	AMZ / FJZ
REVIEWED BY:	FJZ

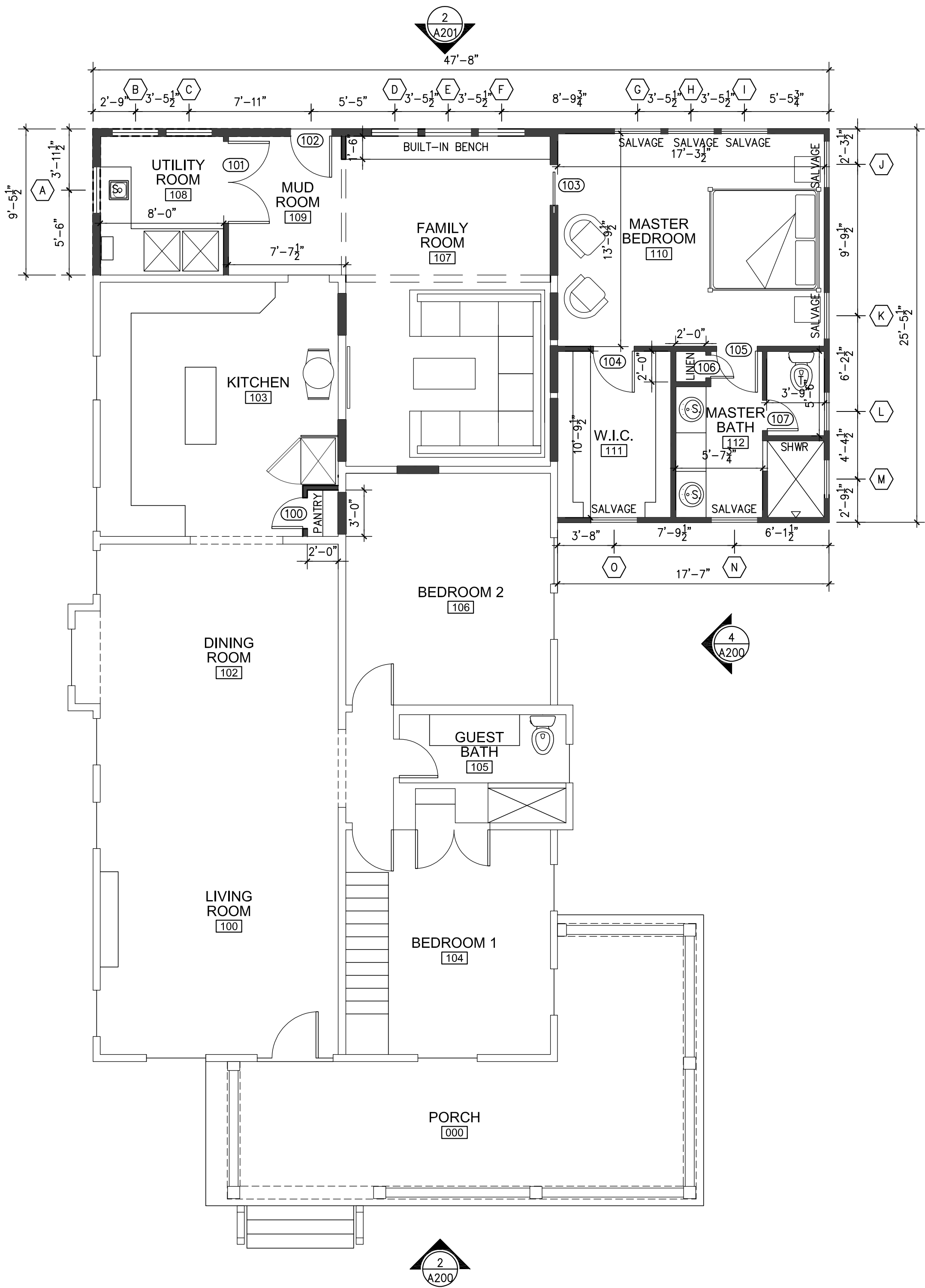
PROJECT ARCHITECT:
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TEXAS LICENSE NO. 24683

A100



1 EXISTING/DEMO FLOOR PLAN

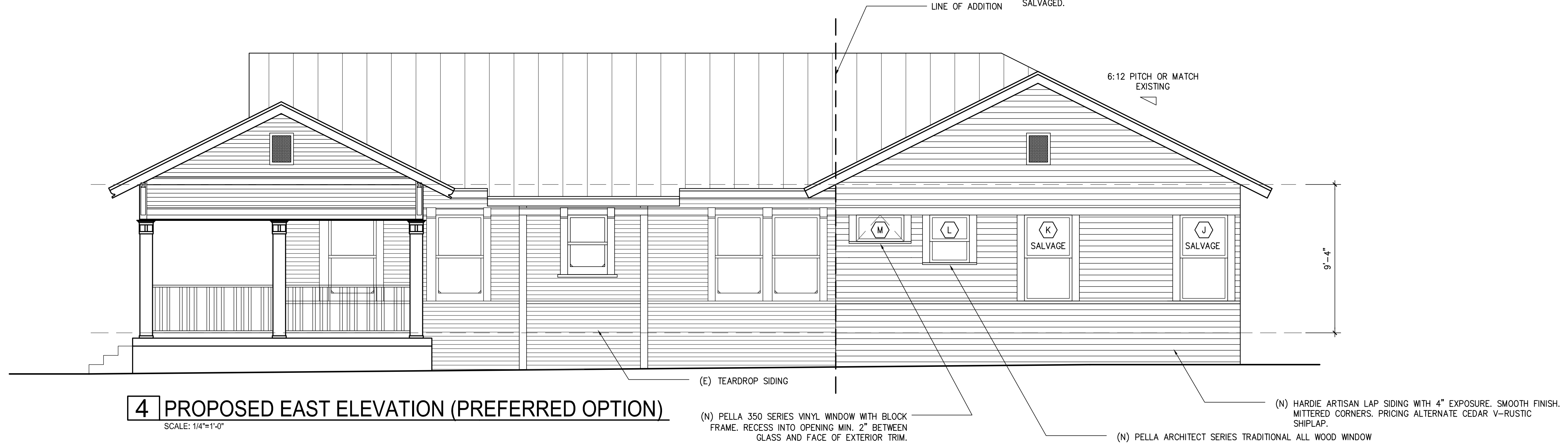
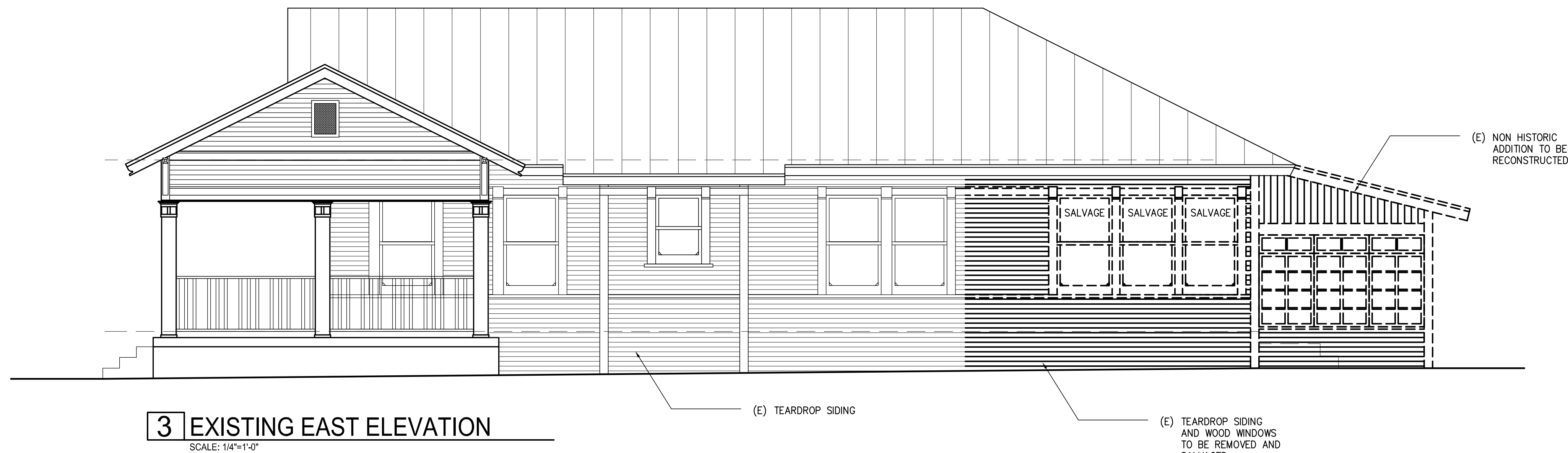
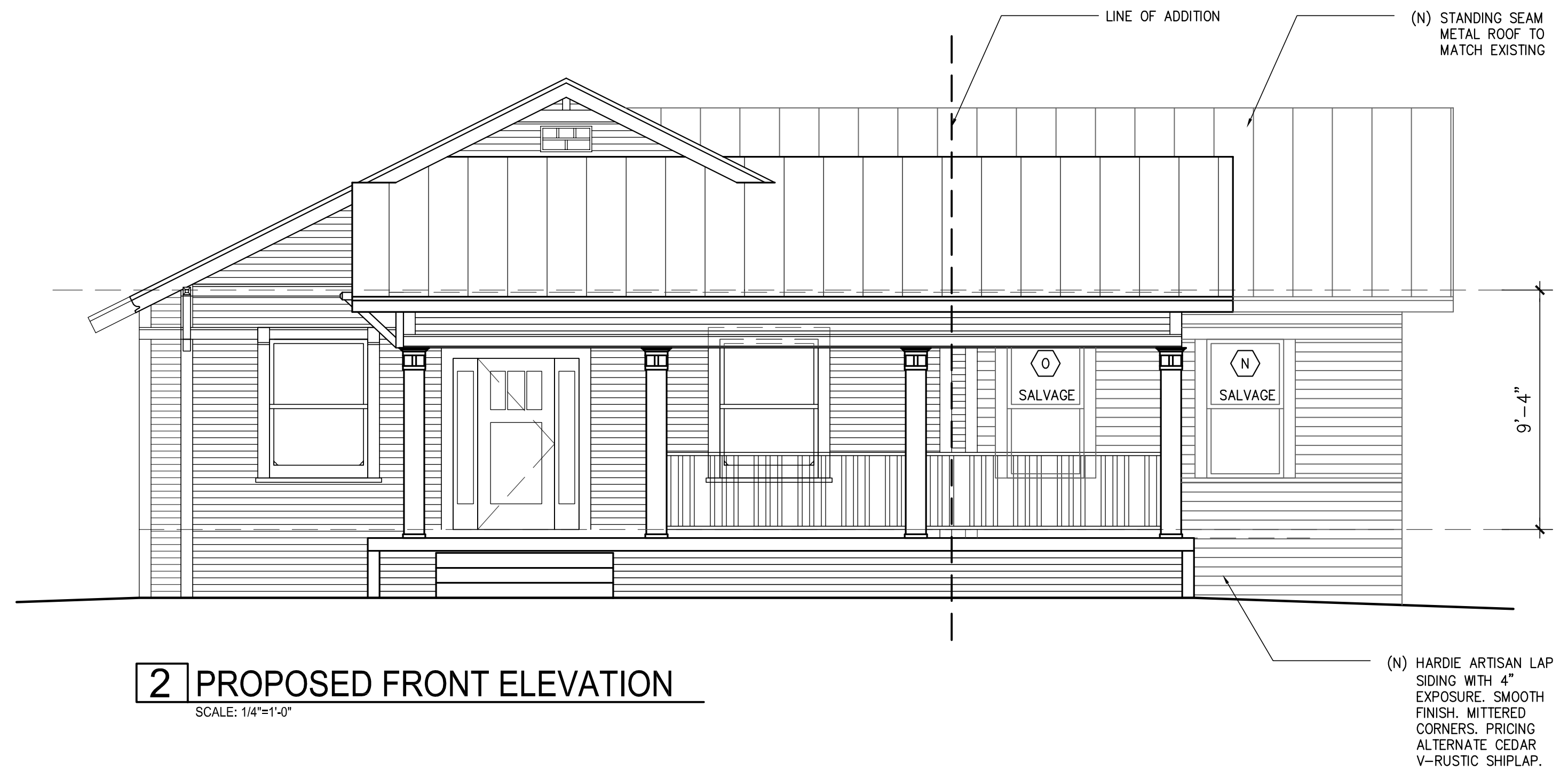
SCALE: 3/16"=1'-0"



2 PROPOSED FLOOR PLAN

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





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PROPOSED EXTERIOR ELEVATIONS

PROJECT NO. 17-132
DATE: 11.2.2017
DRAWN BY: AMZ / FJZ
REVIEWED BY: FJZ

PROJECT ARCHITECT:
FELIX J. ZIGA JR., AIA
TEXAS LICENSE NO. 24683

A200



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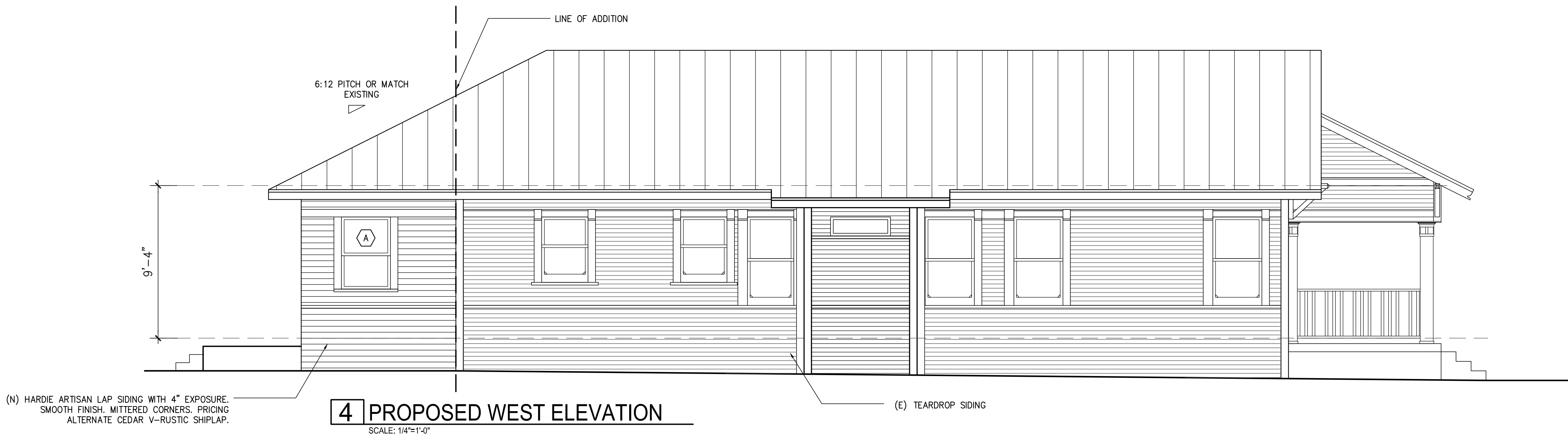
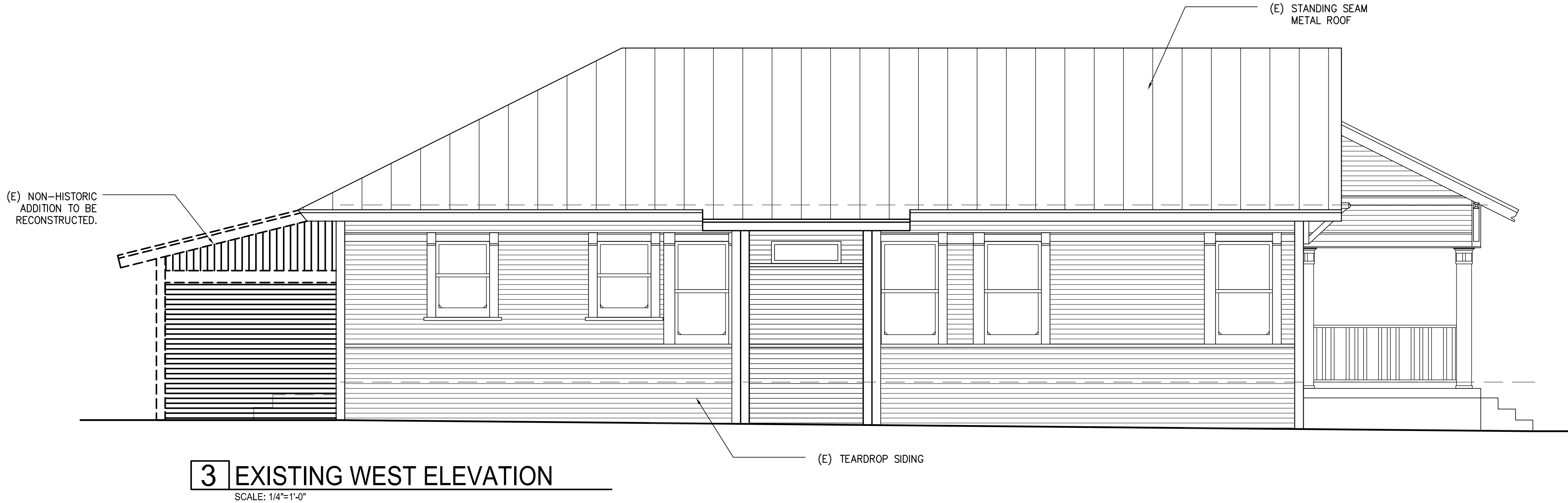
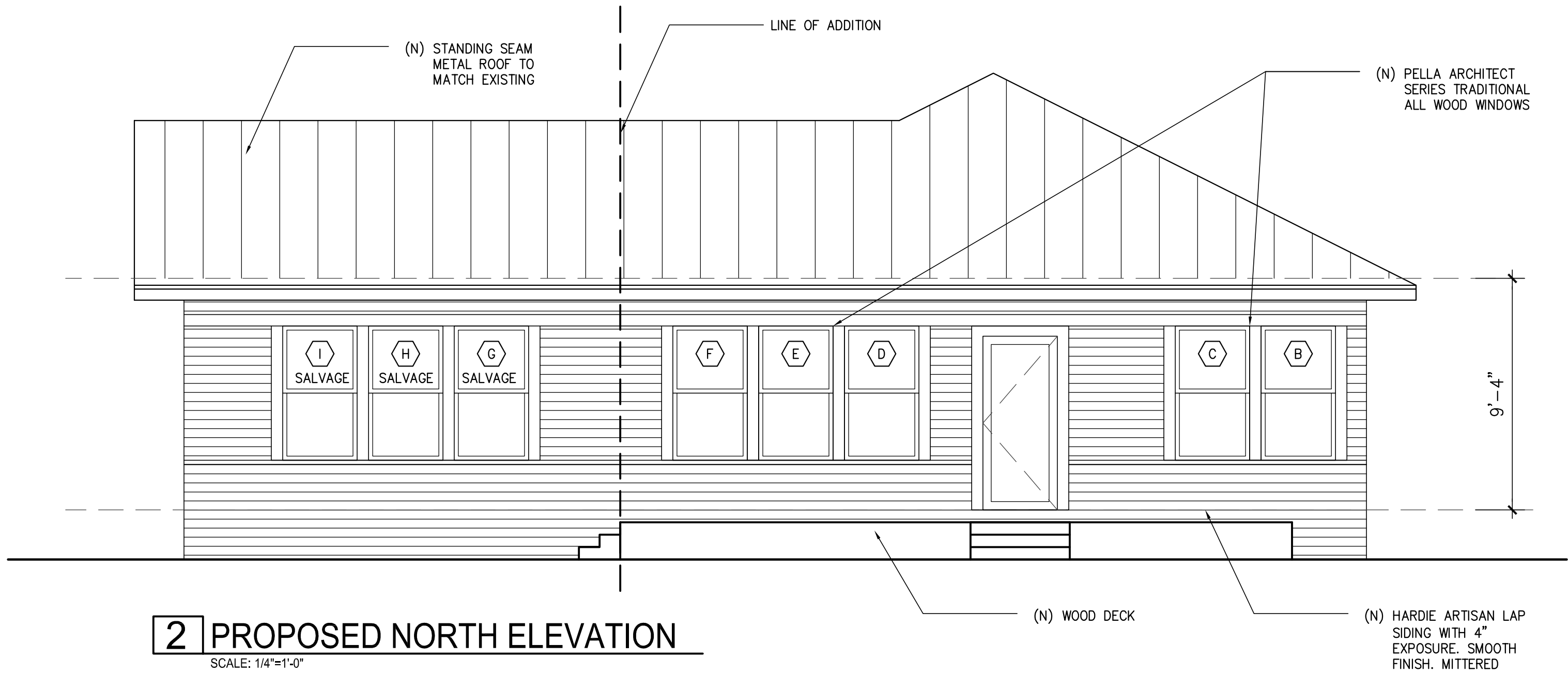
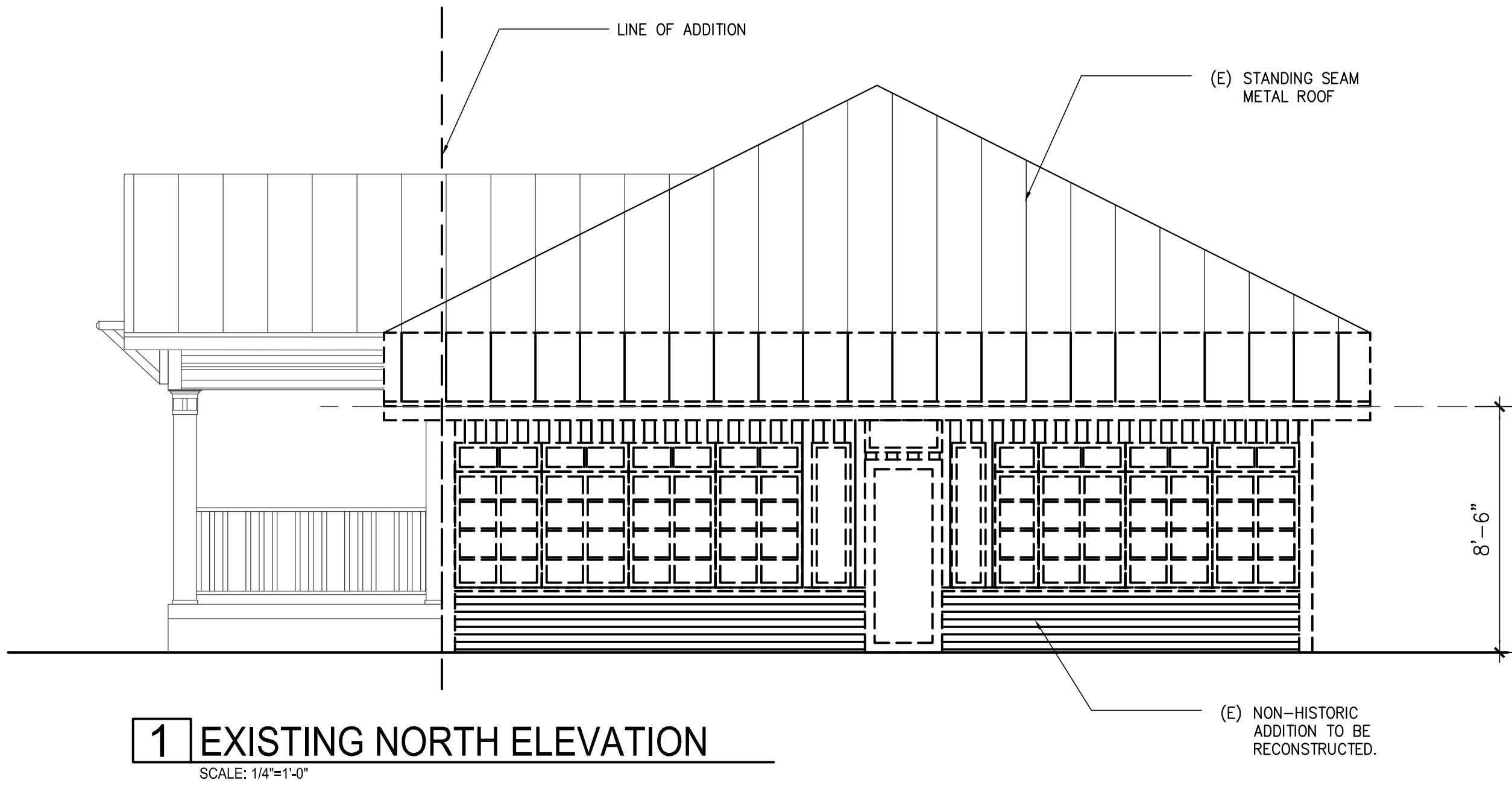
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EXTERIOR & PROPOSED EXTERIOR ELEVATIONS

PROJECT NO. 17-132
DATE: 11.2.2017
DRAWN BY: AMZ / FJZ
REVIEWED BY: FJZ

PROJECT ARCHITECT:
FELIX J. ZIGA JR., AIA
TEXAS LICENSE NO. 24683

A201



Maureen and Ricardo Ruiz

Ruiz Residence - 622 E. Cedar

schematic design: proposed front elevation diagrams

1/8" = 1'-0"

10.30.2017



proposed east elevation - option 2



PELLA®

Architect Series®

TRADITIONAL AND CONTEMPORARY
WOOD WINDOWS AND PATIO DOORS



Why Wood?

Pella® Architect Series® wood windows and patio doors give you more options when it comes to style, low-maintenance features and customization flexibility. Choose traditional or contemporary styles in beautiful wood species, glass options designed for your lifestyle and superb performance features – all backed by some of the best warranties in the industry.

TRADITIONAL



Protect your investment.

Advantage Plus protection system helps Pella's doors stand up to the elements and stay looking great longer. This system includes:

Low-maintenance exterior frame. Our durable low-maintenance aluminum exterior door frames feature our EnduraClad® finish that resists fading and provides years of protection.

Rot-resistant design. Pella's low sill is convenient and helps prevent water from entering the home.

Exclusive PerformaSeal® technology. Featuring our exclusive weathertight seal technology, this provides exceptional energy efficiency and helps block out the damaging effects of extreme wind and rain.



Comfort in. Weather out.

Pella® products offer exceptional energy-efficient performance wherever you live.



Glass at a glance.

Pella's InsulShield® Low-E Glass Collection¹ features our most innovative and energy-saving choices, designed for your specific needs.



Alaska

For many U.S. climates.

GLASS TYPE: Advanced

Low-E Insulating Glass with Argon²

Unique Low-E technology delivers balanced insulation for cold winters and hot summers.



For very hot, sunny climates.

GLASS TYPE: SunDefense™

Low-E Insulating Glass with Argon²

Allows in visible light and provides a clear view, while helping to block the heat of the sun.



Hawaii

For more information on glass, see your local Pella sales representative or visit:

CHOOSEPELLA.COM/GLASS

For cold climates – like northern U.S. and Canada.

GLASS TYPE: NaturalSun

Low-E Insulating Glass with Argon²

Allows the sun's heat to flow in and warm your home, while providing excellent insulation from the cold.



For Northern U.S. climates.

GLASS TYPE: AdvancedComfort

Low-E Insulating Glass with Argon²

Unique Low-E technology delivers balanced insulation for colder winters and moderate summers.



Improved safety and security.

Added protection against intruders. Pella's HurricaneShield[®] impact-resistant glass⁵ offers protection from flying debris and added security against intruders. The interlayer cannot be easily penetrated, even if the glass is shattered – helping to prevent forced entry.



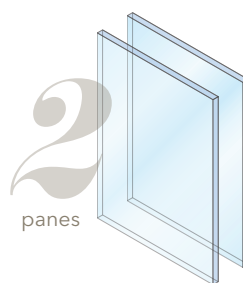
Helping you save on heating and cooling costs.

Installing ENERGY STAR[®] certified windows and doors can lower energy costs.³ With more efficient windows, you can also use less energy, which reduces greenhouse gas emissions from power plants.

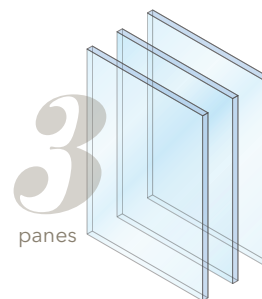
For a typical home, when replacing single-pane windows with ENERGY STAR certified windows, you can save on average:

\$101 to **\$583** per year

And 1,006 – 6,205 pounds of carbon dioxide (CO₂), which is equivalent to 51 to 317 gallons of gasoline a year.⁴



Available on most Pella[®] products.



Available on select windows and patio doors.

More panes, more gains. Many older homes have single-pane windows, which can lead to higher heating and cooling costs and drafty interiors. Multiple panes of glass create an air chamber that can dramatically increase energy efficiency and comfort.



¹ Glass options can be upgraded to offer the benefits of our InsulShield[®] Low-E Glass Collection. Glass options may vary per product. See specific product information for availability.

² Optional high-altitude Low-E insulating glass does not contain argon in most products. Please see your local Pella sales representative for more information.

³ Some Pella products may not meet ENERGY STAR certification in Canada. For more information, contact your local Pella sales representative or go to nrcan.gc.ca/energy/products/categories/fenestration/13739.

⁴ Ranges are based on the average savings among homes in modeled cities. Actual savings will vary based on local climate conditions, utility rates and individual home characteristics. For more information on the benefits of ENERGY STAR certified windows and doors, go to energystar.gov/products/building_products/residential_windows_doors_and_skylights/benefits.

⁵ Pella's impact-resistant glass in HurricaneShield products is made up of a sheet of standard or tempered glass combined with a sheet of laminated glass. For best performance, the laminated glass may be in the interior or exterior pane of insulating glass, depending on the product.

Beautifully functional hardware.

Our exclusive new selection of window hardware and Baldwin® patio door collaborations were designed to add the perfect finishing touch to your Pella® products. Each traditional or contemporary style is available in a diverse palette of striking finishes – allowing for a personal design statement.

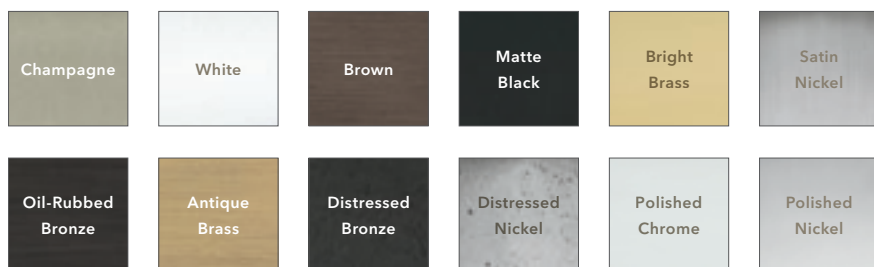
HARDWARE STYLES



Styles from the Essential collection shown.

HARDWARE FINISHES

Pella's hardware is available in a variety of complementary finishes for windows and patio doors to help you curate a cohesive look.



Complement a modern frame.

The sleek design of your Architect Series® contemporary casement window hardware balances the frame's minimalist style with your home's modern aesthetic. And you'll love the convenience of our fold-away cranks.

Complete the look you love.

Architect Series® traditional double-hung windows are available with beautifully detailed historical spoon-style locks and sash lifts.



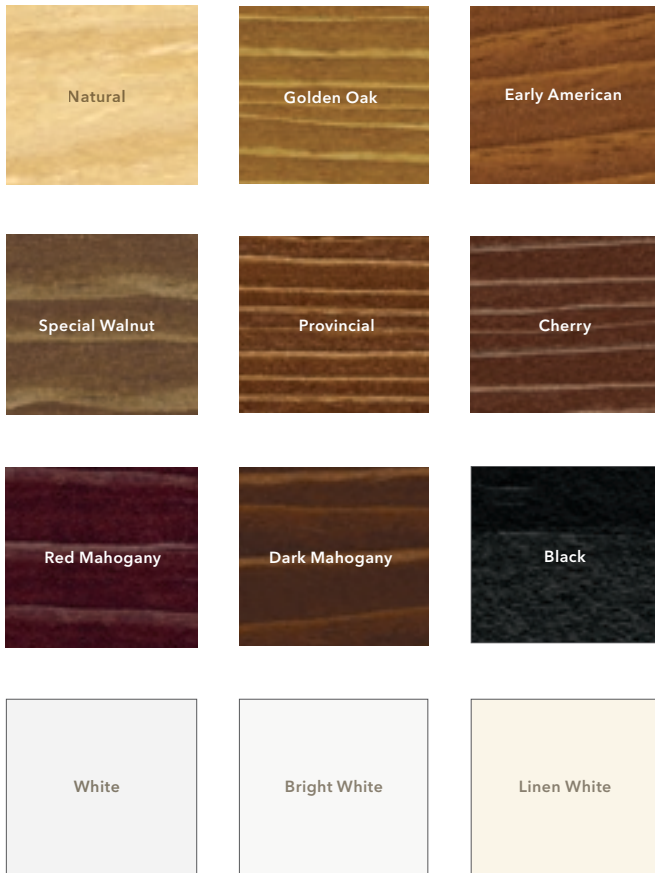
See the entire collection of Pella® wood hardware:

[CHOOSEPELLA.COM/HARDWARE](https://www.choosepella.com/hardware)

Impeccably coordinated.

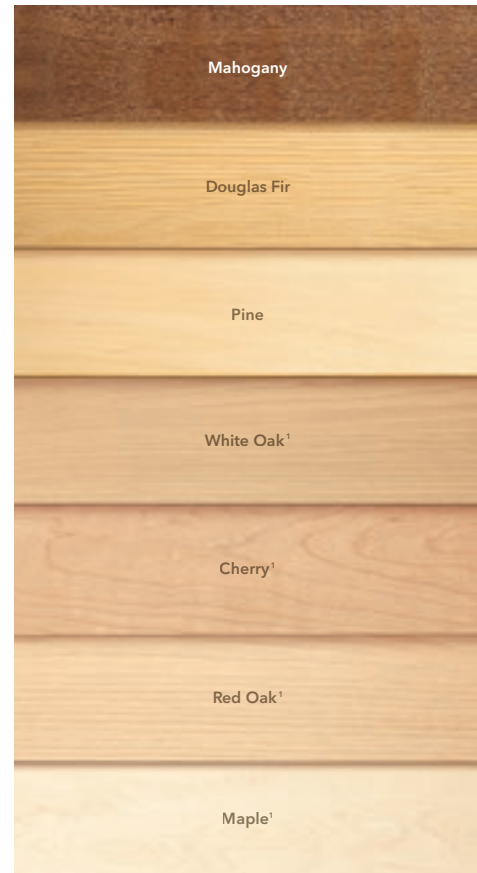
PREFINISHED PINE INTERIORS

Pella's factory finish on the wood interiors of your windows and patio doors gives you instant wow. Choose a stunning stained finish to match the color of other wood in your home or a painted White finish for a fresh, bright look. Also available primed and ready-to-paint.



WOOD TYPES

Your Architect Series® windows or patio doors can be made from your choice of today's most desirable woods – so they'll tastefully complement your home's other interior finishes.



ALUMINUM-CLAD EXTERIORS

Pella's low-maintenance EnduraClad® exterior finish resists fading, so your windows and patio doors stay looking great for years. Take this beauty and durability one step further with Pella EnduraClad Plus² protective finish that provides exceptional weatherability. Plus, Pella offers virtually unlimited custom color options for a unique look.



wood window and patio door DESIGN GUIDE

TRADITIONAL

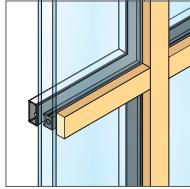
CONTEMPORARY

GRILLES

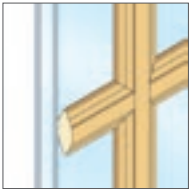
Choose the look of true divided light or grilles-between-the-glass that make cleaning the glass easier.



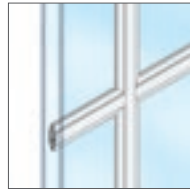
Ogee Integral Light
Technology¹ Grilles
2", 1-1/4" or 7/8"



Square Integral Light
Technology Grilles
7/8"



Roomsie Removable Grilles
2", 1-1/4", 3/4"



Aluminum Grilles-
Between-the-Glass
3/4"



Optional interior grille colors with exterior
color that matches the EnduraClad[®]
color you choose.

ADDED PROTECTION

For additional window fall protection, our Window Opening Control Device (WOCD) is available with optional factory application.⁴ Allowing the window to only open a few inches, the WOCD sits discreetly on the window and is easy to operate.

¹ Available on a custom basis. For more information on wood type availability, contact your local Pella sales representative.

² EnduraClad Plus protective finish is not available with all colors. See your local Pella sales representative for availability.

³ Only available with matching interior and exterior colors.

⁴ Factory-applied WOCD may not be available on all products. See your local Pella sales representative for availability.

GLASS

INSULSHIELD[®] LOW-E GLASS COLLECTION



Advanced Low-E insulating double-pane glass with argon ¹	•	•
AdvancedComfort Low-E insulating double-pane glass with argon ¹	•	•
NaturalSun Low-E insulating double-pane glass with argon ¹	•	•
SunDefense [™] Low-E insulating double-pane glass with argon ¹	•	•
Low-E insulating triple-pane glass with argon or krypton ²	•	-

ADDITIONAL GLASS OPTIONS

HurricaneShield [®] products with impact-resistant glass ³	•	•
Laminated (non-impact-resistant) ³ , tinted ^{1,3} or obscure ^{1,3} glass also available on select products	•	•
STC-improved double-pane sound glass ²	•	•

¹ Optional high-altitude InsulShield Low-E glass is available with argon in select products.

² Available on select products only. See your local Pella sales representative for availability.

³ Available with Low-E insulating glass with argon on select products.

INTERIORS

WOOD TYPES

Mahogany, Douglas Fir, Pine, White Oak ¹ , Cherry ¹ , Red Oak ¹ , Maple ¹	•	•
---	---	---

INTERIOR FINISHES

Unfinished	•	•
Primed, ready-to-paint (Pine)	•	•
Prefinished stain or paint (Pine)	•	•

* Available on a custom basis. For more information on wood type availability, contact your local Pella sales representative.

EXTERIORS

EXTERIOR FINISHES

Aluminum-clad with EnduraClad [®] protective finish	•	•
Aluminum-clad with EnduraClad Plus [®] protective finish	•	•
Primed, ready-to-finish (Mahogany or Pine)	•	•
Unfinished (Mahogany)	•	•

EXTERIOR TRIM

EnduraClad factory-applied trim	•	•
---------------------------------	---	---

LOW-MAINTENANCE ENDURA CLAD EXTERIORS

27 standard colors	•	•
Virtually unlimited Custom colors	•	•

* EnduraClad Plus is not available in all colors. See your local Pella sales representative for availability.

HARDWARE

HARDWARE STYLE COLLECTIONS

Classic	•	-
Modern	•	•
Rustic	•	-
Essential	•	-

HARDWARE FINISHES*

Champagne, White, Brown, Matte Black, Bright Brass, Satin Nickel or Oil-Rubbed Bronze	•	•
Antique Brass	•	-
Distressed Bronze or Distressed Nickel	•	-
Polished Chrome or Polished Nickel	-	•

* Hardware finish availability may vary by style.

GRILLES

Integral Light Technology [®] grilles (wood roomsie and EnduraClad or wood exterior with nonglare spacer between)	•	•
Aluminum grilles-between-the-glass	•	•
Roomsie removable grilles	•	-

SCREENS*

Vivid View [®] high-transparency screen (windows only)	•	•
InView [™] flat screen	•	•
Rolscreen [®] soft-closing retractable screen (casement windows and sliding patio doors only)	•	-
Self-closing top-hung screen door (sliding patio doors only)	•	•

* ⚠ WARNING: Screen will not stop child or pet from falling out of window or door. Keep child or pet away from open window or door.

(•) Full offering (-) Partial offering

Because we're always working to further refine our products and develop new ones, specifications may change without notice. Actual products may vary slightly from illustrations and photos. See your local Pella sales representative for specific details and options available.



PELLA®

350 Series

VINYL WINDOWS AND PATIO DOORS
WITH A DISTINCTIVE LOOK AND
EXCEPTIONAL PERFORMANCE



Premium vinyl.



Exclusive energy-saving system. Pella® 350 Series windows with triple-pane glass are 54% - 83% more energy-efficient than single-pane windows.¹

Advanced Low-E triple-pane InsulShield® glass with argon provides exceptional protection from extreme temperatures and blocks 86% of the sun's fading UV rays.

Our vinyl frame has up to 18 insulating air chambers inside – significantly more than ordinary vinyl has – to help keep your home warmer in the winter and cooler in the summer.



Optional foam insulation increases energy performance.



Pella's SmoothSeam
Interior Welded Corner



A Typical Competitor's
Interior Welded Corner

Pella exclusive SmoothSeam® interior welded corners are virtually invisible, yet strong and durable. A typical competitor's corner welds are visible. Robust frame profile features a beveled edge like wood windows and patio doors.

INTERIOR

Premium frame design. Pella 350 Series window and patio door frames are 83% stronger than ordinary vinyl.² And our precision corner welding process helps resist warping or twisting over time.

Dual-color frame shown with White interior and Brown exterior.

EXTERIOR



Backed by one of the best warranties in the business. The Pella limited lifetime warranty is nonprorated, meaning the coverages within the defined warranty periods do not decrease over time. See written Limited Warranty for details, including exceptions and limitations, at pella.com/warranty, or contact Pella Customer Service at 877-473-5527.

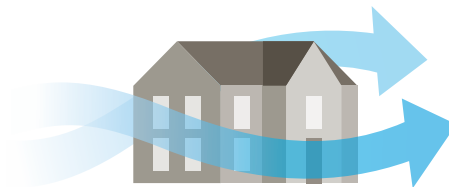
Designs to fit your unique tastes.

With 11 exterior colors, patio doors with blinds- or shades-between-the-glass, distinctive grille patterns and other premium options, you can truly bring your style to life.

See page 10 for all frame color options.



Without impact-resistant glass.



With Pella's impact-resistant glass.

Protect what you value most.

Pella® 350 Series HurricaneShield® windows and patio doors with impact-resistant glass³ offer strong protection from flying debris – while increasing the safety, security, ultraviolet protection, noise control and energy efficiency of your home. Performance Grade (PG) 50 – 80 is available.⁴

HurricaneShield®

¹ Improved window energy efficiency calculated in a computer simulation using RESFEN 5.0 default parameters for a 2,000-square-foot existing single-story home when comparing a Pella 350 Series vinyl window with InsulShield® Advanced Low-E triple-pane glass with argon to a single-pane wood or vinyl window. For more details, see pella.com/methodology.

² Based on the force required to bend the window frame profile.

³ Pella's impact-resistant glass in HurricaneShield products is made up of a sheet of standard or tempered glass combined with a sheet of laminated glass. For best performance, the laminated glass may be in the interior or exterior pane of insulating glass, depending on the product.

⁴ For more information about performance ratings, visit pella.com/PG-ratings.

Comfort in. Weather out.

Pella® products offer exceptional energy-efficient performance wherever you live.



Glass at a glance.

Pella's InsulShield® Low-E Glass Collection¹ features our most innovative and energy-saving choices, designed for your specific needs.



Alaska

For many U.S. climates.

GLASS TYPE: Advanced
Low-E Insulating Glass with Argon²

Unique Low-E technology delivers balanced insulation for cold winters and hot summers.



Hawaii



For very hot, sunny climates.

GLASS TYPE: SunDefense™
Low-E Insulating Glass with Argon²

Allows in visible light and provides a clear view, while helping to block the heat of the sun.

¹ Glass options can be upgraded to offer the benefits of our InsulShield Low-E Glass Collection. Glass options may vary per product. See specific product information for availability.

² Optional high-altitude Low-E insulating glass does not contain argon in most products. Please see your local Pella sales representative for more information.

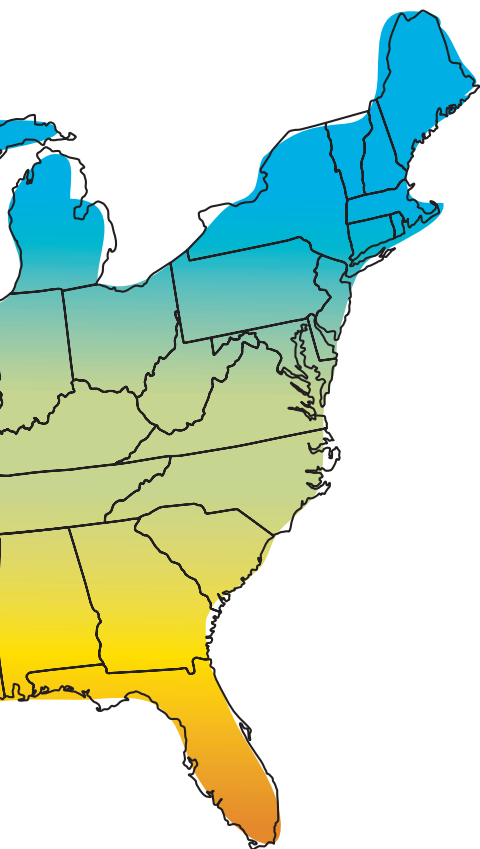
³ Some Pella products may not meet ENERGY STAR® certification in Canada. For more information, contact your local Pella sales representative or go to nrcan.gc.ca/energy/products/categories/fenestration/13739.

⁴ Ranges are based on the average savings among homes in modeled cities. Actual savings will vary based on local climate conditions, utility rates and individual home characteristics. For more information on the benefits of ENERGY STAR certified windows and doors, go to energystar.gov/products/building_products/residential_windows_doors_and_skylights/benefits.

For cold climates – like northern U.S. and Canada.

GLASS TYPE: NaturalSun
Low-E Insulating Glass with Argon²

Allows the sun's heat to flow in and warm your home, while providing excellent insulation from the cold.



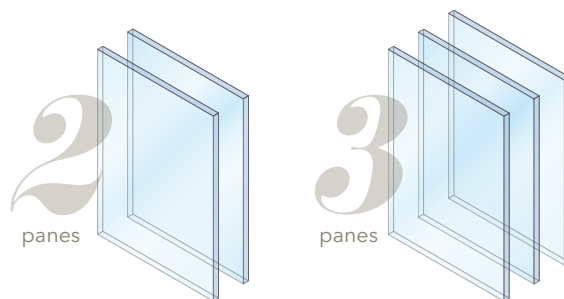
Helping you save on heating and cooling costs.

Installing ENERGY STAR® certified windows and doors can lower energy costs.³ With more efficient windows, you can also use less energy, which reduces greenhouse gas emissions from power plants.

For a typical home, when replacing single-pane windows with ENERGY STAR certified windows, you can save on average:

\$101 to
\$583 per year

And 1,006 – 6,205 pounds of carbon dioxide (CO₂), which is equivalent to 51 to 317 gallons of gasoline a year.⁴



Available on Pella® 350 Series products.

More panes, more gains. Many older homes have single-pane windows, which can lead to higher heating and cooling costs and drafty interiors. Multiple panes of glass create an air chamber that can dramatically increase energy efficiency and comfort.

Glass for a wide range of needs.

In addition to exceptional energy efficiency, you'll find great glass options that help with privacy, glare and noise control.

For more information on glass, see your local Pella sales representative or visit:

CHOOSEPELLA.COM/GLASS

Features and options.

FRAME COLORS

Create a signature look for your home with a variety of frame colors to choose from.

Solid-Color Frames

(same color on both interior and exterior)



White



Almond

Dual-Color Frames

(exterior only with White interior)



Poplar White



Tan



Fossil



Brown



Portobello



Morning Sky Gray



Hartford Green



Brick Red



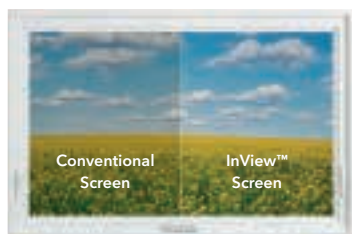
Black

SCREENS¹

Let in more light and fresh air with your choice of innovative screens.



Rolscreen® retractable screens roll out of sight when not in use.²



InView high-transparency screens let in 14% more light and are 8% more open for improved airflow.^{3,4}

HARDWARE STYLES

Find beauty and function in Pella's innovative, easy-to-operate hardware styles.



Double-Hung, Single-Hung and Sliding Window Cam-Action Sash Lock (standard)



Double-Hung, Single-Hung and Sliding Window AutoLock⁵ (optional)



Sliding Patio Door Handle with Multipoint Locking System (standard)



Casement and Awning Window Crank (standard)



Double- and Single-Hung Window Integrated Sash Lift (standard)



Double- and Single-Hung Window Surface-Mounted Sash Lift (optional)

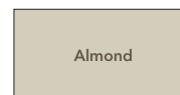
HARDWARE FINISHES

Choose from today's most popular decorative finishes to coordinate with other finishes in your home.

Color-Matched Finishes

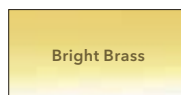


White

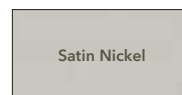


Almond

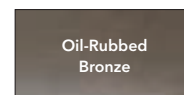
Additional Finishes⁶



Bright Brass



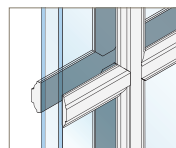
Satin Nickel



Oil-Rubbed Bronze

GRILLES

Simulated-Divided-Light^{4,7}



7/8" Contour (color-matched)

Grilles-Between-the-Glass⁸



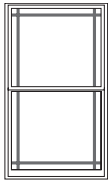
3/4" Contour (color-matched interior, 11 exterior colors)



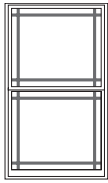
1" Contour (White, Almond or Brown only)

GRILLE PATTERNS⁹

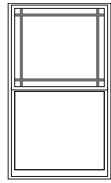
A variety of grille patterns for the traditional look of divided light.
Custom patterns are also available.



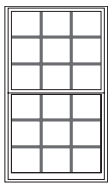
6-Lite Prairie



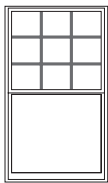
9-Lite Prairie



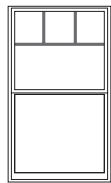
9-Lite Prairie
Top Sash Only



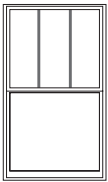
Traditional



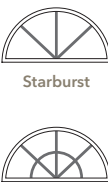
Traditional
Top Sash Only



Top Row



Custom
(equally divided)



Starburst



Perimeter



Sunburst



Prairie

PATIO DOOR FASHIONS

Dress your sliding patio doors with blinds- or shades-between-the-glass.



White Blinds^{2, 10}



Linen-Colored
Interior with
White Exterior
Fabric Shades^{2, 10}

vinyl window and patio door DESIGN GUIDE

GLASS

INSULSHIELD® LOW-E GLASS COLLECTION¹



	DOUBLE-HUNG WINDOWS	SINGLE-HUNG WINDOWS	CASEMENT WINDOWS	AWNING WINDOWS	SLIDING WINDOWS	SPECIAL SHAPE WINDOWS	FIXED WINDOWS	SLIDING PATIO DOORS
Advanced Low-E insulating glass with argon ^{2, 3}	S	S	S	S	S	S	S	O
NaturalSun Low-E insulating glass with argon ^{2, 3}	O	O	O	O	O	O	O	O
SunDefense™ Low-E insulating glass with argon ^{2, 3}	O	O	O	O	O	O	O	O
ADDITIONAL GLASS¹								
Advanced Low-E insulating glass	O	O	O	O	O	O	O	S
Obscure Low-E insulating glass ³	O	O	O	O	O	O	O	O
Bronze-tinted Advanced Low-E insulating glass with argon ²	O	O	O	O	O	O	O	O
HurricaneShield® products with impact-resistant glass	-	O	O	O	O	O	O	O
Laminated glass (non-impact-resistant)	-	O	O	O	-	O	O	-
Sound control (3mm/5mm combination glass)	O	O	O	O	O	O	O	O
Gray Low-E insulating glass with argon ²	O	O	O	O	O	O	O	O
Tempered glass	O	O	O	O	O	O	O	S
Tempered glass in bottom sash only	O	O	-	-	-	-	-	-

¹ See glass information on pages 8 – 9 for details. ² Optional high-altitude Low-E insulating glass available with or without argon on most products.

³ Available with triple-pane glass.

FRAME COLORS

SOLID-COLOR

White	S	S	S	S	S	S	S	S
Almond	O	O	O	O	O	O	O	O

DUAL-COLOR

Poplar White, Tan, Fossil, Brown, Portobello, Morning Sky Gray, Hartford Green, Brick Red or Black (exterior only with White interior)	O	O	O	O	O	O	O	O
--	---	---	---	---	---	---	---	---

HARDWARE FINISHES¹

White or Almond ²	S	S	S	S	S	-	-	S
Bright Brass ³ , Satin Nickel ³ or Oil-Rubbed Bronze ³	O	O	O	O	O	-	-	O

¹ See hardware finish colors and styles on page 10. ² Exterior sliding patio door hardware color-matched to exterior frame.

³ Available on the interior only.

GRILLES

7/8" Simulated-Divided-Light grilles	O	O	O	O	O	O	O	-
3/4" or 1" Contour aluminum grilles-between-the-glass*	O	O	O	O	O	O	O	O

* Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

GRILLE PATTERNS*

6-Lite Prairie	O	O	-	-	O	-	-	O
9-Lite Prairie	O	O	O	O	O	O	O	O
Traditional	O	O	O	O	O	O	O	O
Top Row	O	O	O	O	O	-	O	O
Top Sash Only (9-Lite Prairie or Traditional)	O	O	-	-	-	-	-	-
Starburst, Sunburst or Perimeter	-	-	-	-	-	O	-	-
Custom (equally divided)	O	O	O	O	O	O	O	O

* Grille patterns offered may vary per product. See specific product information for availability.

SCREENS* (COLOR-MATCHED FRAMES)

Half screen	O	S	-	-	S	-	-	-
Full screen	S	-	S	S	-	-	-	-
InView™ screen	O	O	O	O	O	-	-	-
Heavy-duty sliding screen (color-matched to exterior frames)	-	-	-	-	-	-	-	S
Rolscreen® retractable screen	-	-	-	-	-	-	-	O

* ⚠ WARNING: Screen will not stop child or pet from falling out of window or door. Keep child or pet away from open window or door.

BLINDS- OR SHADES-BETWEEN-THE-GLASS*

Cordless White blinds	-	-	-	-	-	-	-	O
Cordless Linen-colored shades	-	-	-	-	-	-	-	O

* Availability varies by size. See a Pella professional for details.

WARRANTY



Limited lifetime warranty*	S	S	S	S	S	S	S	S
----------------------------	---	---	---	---	---	---	---	---

* See written Limited Warranty for details, including exceptions and limitations, at pella.com/warranty, or contact Pella Customer Service at 877-473-5527.

(S) Standard

(O) Optional

(-) Not Available

See a Pella professional for specific details and additional options available. Some features are part of our standard offering; not all options are available on all product styles.

¹ ⚠ WARNING: Screen will not stop child or pet from falling out of window or door. Keep child or pet away from open window or door.

² Available on sliding patio doors only.

³ Improved airflow is based on calculated screen cloth openness. Screen cloth transmittance was measured using an integrated sphere spectrophotometer.

⁴ Available on windows only.

⁵ When using AutoLock hardware, simply close the sash and confirm it latches.

⁶ Available on interior only.

⁷ Not available with triple-pane glass.

⁸ Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

⁹ Grille patterns offered may vary per product. See specific product information for availability.

¹⁰ Not available on HurricaneShield® products.