

2/16/2021

**CERTIFICATE OF APPROPRIATENESS**

Jason Jones  
3701 Lincoln LLC  
3701 Lincoln  
Detroit, MI 48226

**RE: Application Numbers 21-7071, 21-7072, 21-7073, 21-7074, 21-7075, 21-7076, 21-7077, 21-7078, 21-7079, 21-7080, 21-7081; 3664, 3690, 3700, 3708 Trumbull & 3689, 3697, 3701, 3707, 3713, 3907, 3915 Lincoln Street, Woodbridge Farm Historic District**

Dear Mr. Jones,

At the regularly scheduled meeting held virtually on February 10, 2021, the Detroit Historic District Commission (“Commission”) reviewed the above-referenced application for building permit. Pursuant to Section 5(10) of the Michigan Local Historic District Act, as amended, being MCL 399.205, MSA 5-3407(5)(10) and Section 21-2-73 of the 2019 Detroit City Code; the Commission has reviewed the above-referenced application for building permit and hereby issues a Certificate of Appropriateness, which is effective as of February 16, 2021.

The following proposed work meets the defined elements of design for the historic district and the Secretary of the Interior’s Standards for Rehabilitation and guidelines for rehabilitating historic buildings (36 CFR Part 67).

• **Erect new buildings and rehabilitate the existing power house** including the following scope items:

○ **Sitework**

▪ **Demolition**

- Demolish existing concrete barrier wall along north side of alley.
- Demolish existing decorative stone wall at corner of Trumbull and Brainard in its entirety, including the lengths running along Trumbull and Brainard.
- Demolish (2) two existing stone columns located along Trumbull mid-way through the site in their entirety.
- Remove and salvage (2) existing decorative stone columns near corner of Trumbull and Brainard (to be relocated as part of development outdoor space).
- Remove all existing trees on the site.

▪ **New Sitework**

- Renovate and repave alley with new stamped concrete
- New paved drive aisles and parking areas
- New concrete pedestrian paths along front of buildings and entries
- Creation of new community lawn space in front of existing power house including two “outdoor rooms” consisting of crushed stone surfaces edged with brick pavers
- Planting areas with ornamental grasses and small shrubs at front porch areas of each unit
- New trees as shown on site plan

○ **Rehabilitation of Existing Power House**

Rehabilitate and convert existing 2-story brick Power House building into a detached residential condominium unit

▪ **Demolition**

- Demolish remaining portions of existing brick wall along alley adjacent to building. Salvage brick to be used as required for repair of building.
- Demolish existing wood roof structure (destroyed in fire)

▪ **Rehabilitation Scope**

- Repair/repaint brick as required. Mortar mix to match existing color, composition, and texture.

- Clean brick to remove soot stands and graffiti. Contractor to test least invasive (1) to more invasive (3) cleaning methods. 1 = power washing, 2 = acid/chemical cleaners, 3 = abrasives/media-blasting
- Remove existing wood porch railing at north end of west facade of building and reconstruct wood porch rail in-kind and painted Yellowish White (C4).
- Install new wood entry door centered on the west elevation. The replacement door is to be a Craftsman 3 Panel 3 Light Premium Wood Pella Entry Door (stain color: Bordeaux)
- Reconstruct damaged brick wall at northeast corner of building with salvaged brick from the demolition of the existing brick wall along the alley.
- Reopen the upper portion of the existing brick-infilled window opening at second floor of rear (east) elevation.
- Repair and replace existing wood header detail on front (west) façade above entry door.
- Install new glass access hatch at roof.
- Construct new roof deck (Trex Decking – Color: Saddle/Dark Brown) with painted aluminum (color: black) guard rail.
- Install continuous aluminum gutter and downspout (color: black).
- Install new aluminum-clad wood windows at all window openings. Replacement windows are to be the Pella Architect Series aluminum-clad wood windows with a black exterior finish, simulated divided light with 2/1 custom grille patterns. The arched-top window located at the front elevation is to be a custom window manufactured by Pella using the same construction methods as the Architect Series.
- Raise sill of window at rear south elevation of building, coordinate with interior configuration. Use salvaged brick to infill opening as required below new windows.

○ **New Construction**

Construct 15 new buildings (64 units) consisting of two to seven 3-story town-home units placed throughout the project site (see attached drawings for locations).

- Individual garages are included in the first floor of the building footprints with vehicle access from the interior of the site, not from the street. Additional uncovered surface parking for guests is located at various locations within the site.
- (6) of the buildings to incorporate a “red” color scheme which includes the following exterior building materials:
  - Reddish-brown brick
  - Painted James Hardie Lap siding, smooth finish, iron gray in color
  - Woodtone Composite Wood siding – color: summer wheat
  - Asphalt singles at the roof – color: dark gray/black
- (9) of the buildings to incorporate a “gray” color scheme which includes the following exterior building materials:
  - Warm gray brick
  - Painted James Hardie Lap siding, smooth finish, dark brownish gray in color
  - Woodtone Composite Wood siding – color: summer wheat
  - Asphalt shingles at the roof – color: dark gray/black
- Windows in all new buildings are to be the Anderson 100 Series Fibrex (composite material) windows of varying size and operation including:
  - Low-E Glass
  - No grilles
  - Exterior finish color: Black
- Patio doors in all new buildings are to be the Anderson 100 Series (composite material) doors of vary size and operation including:
  - Low-E Glass
  - No grilles
  - Exterior finish color: Black
- Exterior entry doors are to be Thermatru Smooth-Star Pluse Echo 4-Lite Centered fiberglass doors (color: black).
- Railings of the second floor balconies are to be 3’-6” high “ultra-picket”-style aluminum railings.

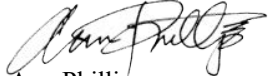


**With the following conditions:**

- The existing (4) stone columns are to remain in place with approximately 5' wings of the existing stone walls subject to approval by staff.
- The masonry at the existing power house, stone perimeter wall, and stone columns is to be cleaned, repaired and graffiti removed using the gentlest means possible.
- The railing at the roof deck is to be pulled back at least 3' from proposed location on all sides and modify the railing design to a more transparent or "lighter" impact system which staff finds appropriate.
- The windows at the existing power house which were originally proposed to be 2/1 (based on the historic photograph) are to be 1/1 without divided lights.
- Applicant to submit revised cut sheets for the items listed above to HDC staff for review and approval prior to pulling the permit.

Please retain this COA for your files. You should now proceed to obtain a building permit from the City of Detroit Buildings, Safety, Engineering and Environmental Department. It is important to note that approval by the Detroit Historic District Commission does not waive the applicant's responsibility to comply with any other applicable ordinances or statutes.

For the Commission:



Ann Phillips  
Staff

Detroit Historic District Commission

THIS IS A 3-PAGE FORM - ALL INFORMATION IS REQUIRED FOR PROJECT REVIEW

# HISTORIC DISTRICT COMMISSION PROJECT REVIEW REQUEST

City of Detroit - Planning & Development Department  
2 Woodward Avenue, Suite 808  
Detroit, Michigan 48226

Date: January 25, 2021

## PROPERTY INFORMATION

ADDRESS: See attached legal description AKA: 3700 Trumbull

HISTORIC DISTRICT: Woodbridge Farm

SCOPE OF WORK: (Check ALL that apply)

<input type="checkbox"/> Windows/ Doors	<input type="checkbox"/> Roof/Gutters/ Chimney	<input type="checkbox"/> Porch/ Deck	<input type="checkbox"/> Landscape/Fence/ Tree/Park	<input checked="" type="checkbox"/> General Rehab
<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Demolition	<input type="checkbox"/> Addition	<input checked="" type="checkbox"/> Other: <u>New &amp; General Rehab</u>	

## APPLICANT IDENTIFICATION

Property Owner/  
Homeowner  Contractor  Tenant or  
Business Occupant  Architect/Engineer/  
Consultant

NAME: Jason Jones COMPANY NAME: 3701 Lincoln, LLC

ADDRESS: See attached legal description CITY: Detroit STATE: MI ZIP: 48202

PHONE: \_\_\_\_\_ MOBILE: 313-575-6835 EMAIL: jason@TektonDevCo.com

## PROJECT REVIEW REQUEST CHECKLIST

Please attach the following documentation to your request:

**\*PLEASE KEEP FILE SIZE OF ENTIRE SUBMISSION UNDER 30MB\***

- Completed Building Permit Application** (highlighted portions only)
- ePLANS Permit Number** (only applicable if you've already applied for permits through ePLANS)
- Photographs** of ALL sides of existing building or site
- Detailed photographs** of location of proposed work (photographs to show existing condition(s), design, color, & material)
- Description of existing conditions** (including materials and design)
- Description of project** (if replacing any existing material(s), include an explanation as to why replacement--rather than repair--of existing and/or construction of new is required)
- Detailed scope of work** (formatted as bulleted list)
- Brochure/cut sheets** for proposed replacement material(s) and/or product(s), as applicable

### NOTE:

Based on the scope of work, additional documentation may be required.

See [www.detroitmi.gov/hdc](http://www.detroitmi.gov/hdc) for scope-specific requirements.

Upon receipt of this documentation, staff will review and inform you of the next steps toward obtaining your building permit from the Buildings, Safety Engineering and Environmental Department (BSEED) to perform the work.

**SUBMIT COMPLETED REQUESTS TO [HDC@DETROITMI.GOV](mailto:HDC@DETROITMI.GOV)**



 <p><b>First American</b></p> <p><b>Schedule C</b></p>	<p>ISSUED BY</p> <p><b>First American Title Insurance Company</b></p> <p>File No:897505</p>
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Commitment No.: 897505

Land in the City of Detroit, Wayne County, MI, described as follows:

- PARCEL 1:  
Lot 45 and the North 20 feet of Lot 46, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.
- PARCEL 2:  
South 30 feet of Lot 46, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.
- PARCEL 3:  
Lot 47, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.
- PARCEL 4:  
Lot 48, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.
- PARCEL 5:  
Lot 49, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.
- PARCEL 6:  
Lot 85, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.
- PARCEL 7:  
Lot 86, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.
- PARCEL 8:  
Lots 33 through 43, both inclusive, including the Northerly 8.00 feet of vacated Brainard Street adjacent thereto, of HODGES BROS SUBDIVISION OF OUTLOTS 98, 99, 102 & 103 WOODBRIDGE FARM, according to the plat thereof as recorded in [Liber 1 of Plats, Page 308](#), Wayne County Records.

*[Handwritten signatures and notes]*

*This page is only a part of a 2016 ALTA® Commitment for Title Insurance issued by First American Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions; and a counter-signature by the Company or its issuing agent that may be in electronic form.*

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# THE TOWNS @ SCRIPPS PARK

MULTI-BUILDING TOWNHOUSE DEVELOPMENT IN  
THE WOODBRIDGE FARMS HISTORIC DISTRICT





## PROJECT NARRATIVE

The T

new-construction townhomes on the existing Scripps Mansion site in the Woodbridge Farms Historic District. The project site consists of parcels on the east side of Trumbull Avenue between Selden St. to the north, and Brainard St. to the south. Parcels on the west side of Lincoln directly north and south of Selden St. are also included.

Each townhome consists of internal parking and a bonus room on the , and bedrooms and . There are two unit types, one 20' wide 1,624 sqft, two to three bedroom units(with two parking spaces), and one 16' wide, 1,349 sqft two bedroom (with one parking space).

The overall design strategy is for the buildings to complement the historic district. Simple massing creates a rhythm along Trumbull and Lincoln that speaks to rary detailing allows the buildings to visually recede and act as a back-elements of the district.

Quality exterior materials including brick, James Hardie composite siding, and WoodTone composite siding are durable and long lasting, and complement the brick and wood-sided homes throughout the district.

In addition to the new structures, new public open spaces are also created as part of the development. At the center of the development along Trumbull, a new community lawn is created in front of the Existing Scripps Mansion Power House. This area is directly across the street from one of the entrances to Scripps Park, and is seen as an extension of the park. The existing alley between Trumbull and Lincoln will be redeveloped with new paving to make it more accessible to vehicle and

The existing Power House will be renovated and developed into a detached residential condominium unit

Overall, The T Historic District's unused space in a way that allows the existing historic

Woodbridge Farms.

## PROJECT SCOPE

### DEMOLITION

- Demolish existing concrete barrier wall along north side of alley
- Demolish existing decorative stone wall at corner of Trumbull and Brainard
- Remove and salvage (2) existing decorative stone columns near corner of Trumbull and Brainard (to be relocated as part of development outdoor space)

### SITWORK

- Renovate and repave alley with new stamped concrete
- New paved drive aisles and parking areas
- New concrete pedestrian paths along front of buildings and entries
- Creation of new community lawn space in front of existing power house including two "outdoor rooms" consisting of crushed stone surfaces with brick paver edging.
- Planting areas with ornamental grasses and small shrubs at front porch areas of each unit.
- New trees as shown on site plan

### NEW CONSTRUCTION

- Construct 15 new buildings consisting of two to seven 3-story townhome units.

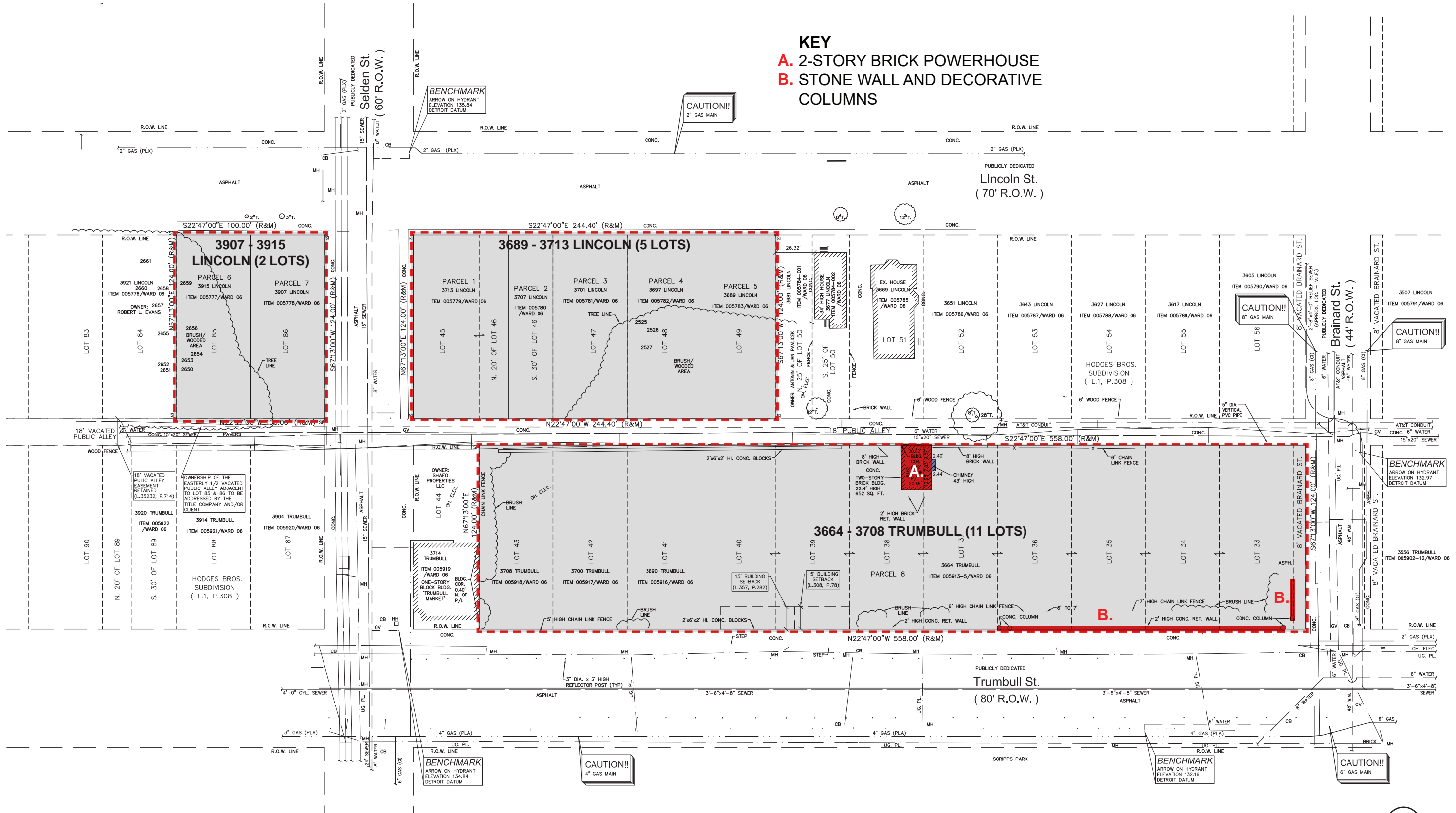
### RENOVATION WORK

- Renovate and convert existing 2-story brick Power House building into a detached residential condominium unit.

# EXISTING SITE PLAN

## KEY

- A. 2-STORY BRICK POWERHOUSE
- B. STONE WALL AND DECORATIVE COLUMNS





# EXISTING SITE PHOTOS



3689 - 3713 LINCOLN (LOOKING WEST)



3907 - 3915 LINCOLN (LOOKING WEST)



3664 - 3708 TRUMBULL (LOOKING EAST)



TRUMBULL LIQUOR (CORNER OF SELDEN AND TRUMBULL)



EXISTING POWERHOUSE



EXISTING STONE WALL AND DECORATIVE COLUMNS

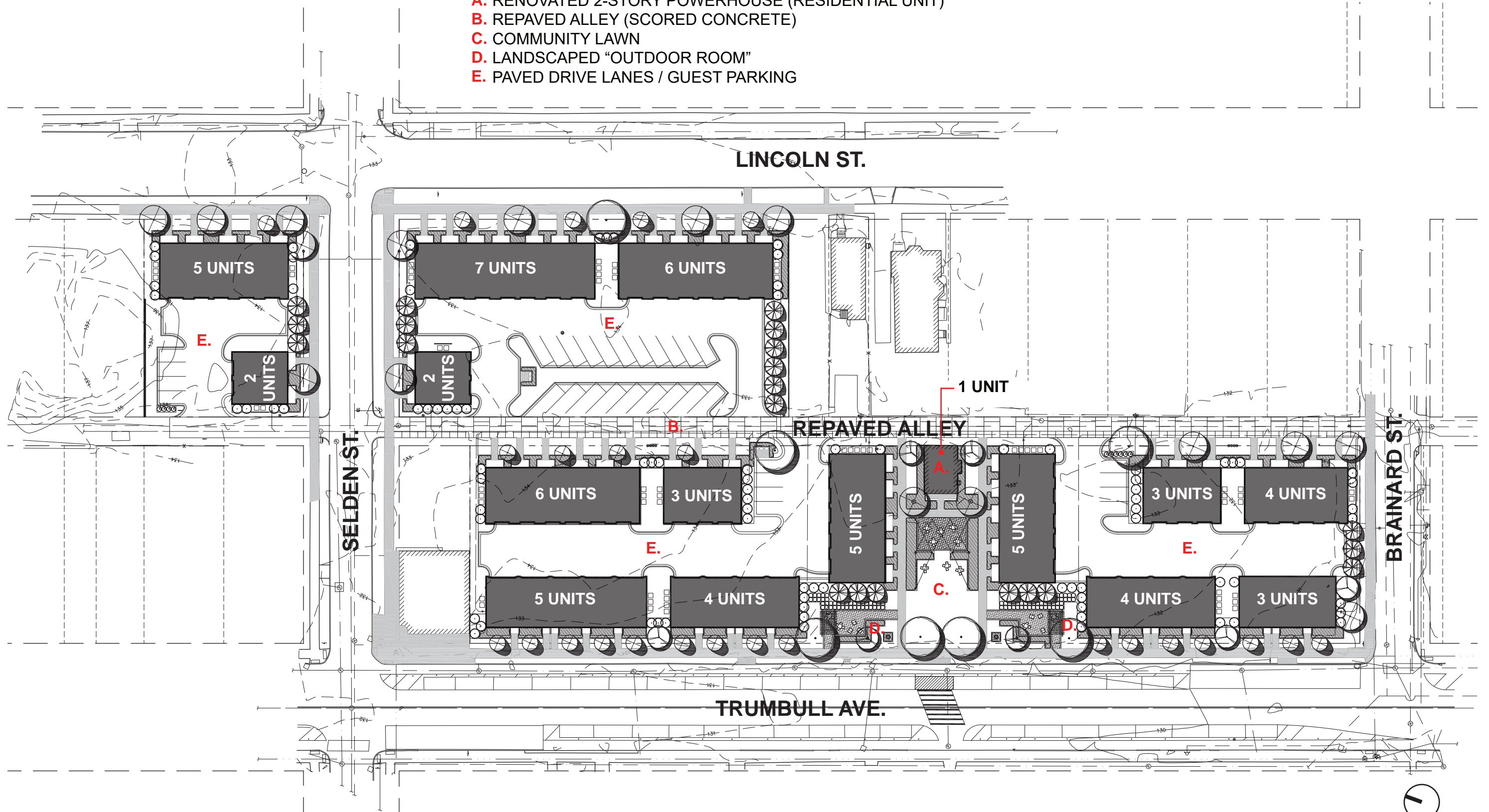




# PROPOSED SITE PLAN

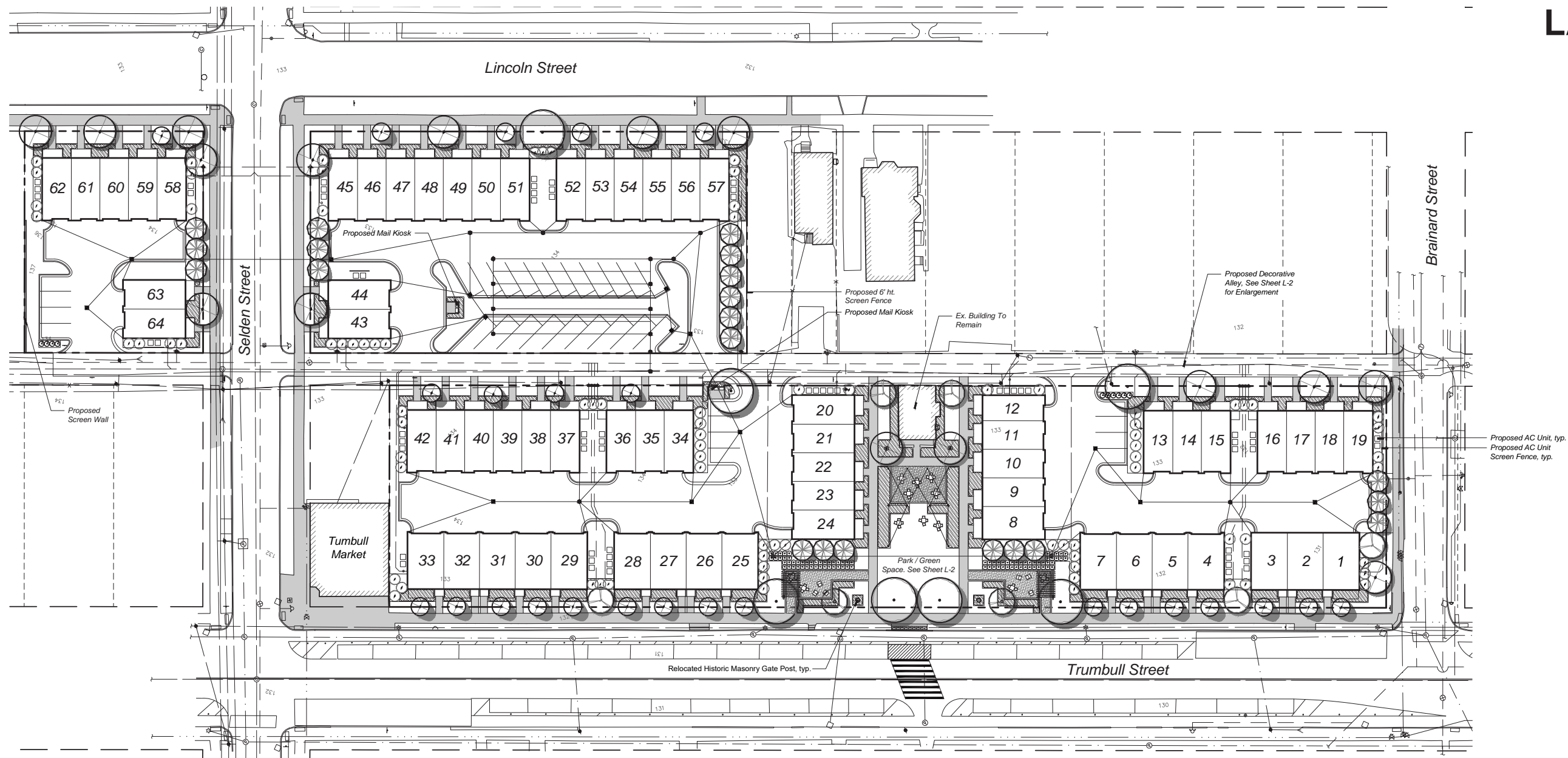
## KEY

- A. RENOVATED 2-STORY POWERHOUSE (RESIDENTIAL UNIT)
- B. REPAVED ALLEY (SCORED CONCRETE)
- C. COMMUNITY LAWN
- D. LANDSCAPED "OUTDOOR ROOM"
- E. PAVED DRIVE LANES / GUEST PARKING





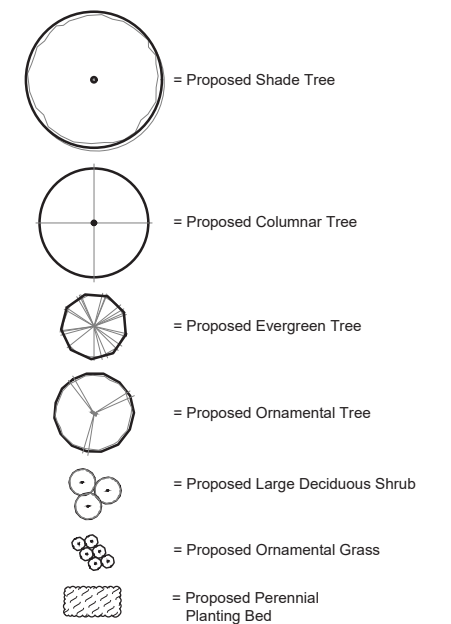
# LANDSCAPE PLAN



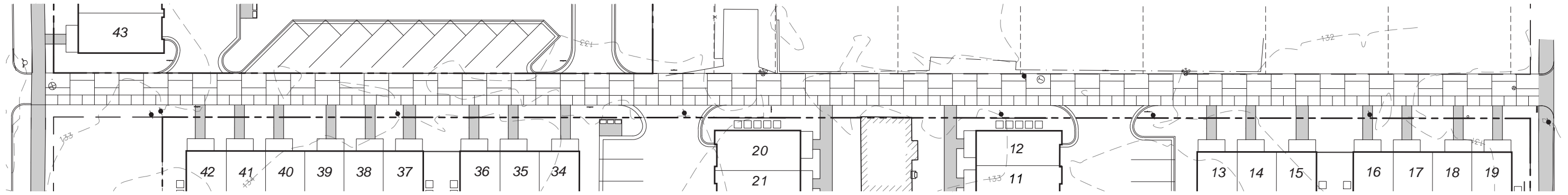
## Landscape Summary

<b>Trumbull Street</b>	
- Required:	1 Tree / 30 LF frontage
- Length of Frontage:	558 LF
- Required:	19 Trees
- Provided:	20 Trees
<b>Brainard Street</b>	
- Required:	1 Tree / 30 LF frontage
- Length of Frontage:	124 LF
- Required:	5 Trees
- Provided:	5 Trees
<b>Lincoln Street South</b>	
- Required:	1 Tree / 30 LF frontage
- Length of Frontage:	224.40 LF
- Required:	8 Trees
- Provided:	8 Trees
<b>Lincoln Street North</b>	
- Required:	1 Tree / 30 LF frontage
- Length of Frontage:	100 LF
- Required:	4 Trees
- Provided:	4 Trees
<b>Selden Street South</b>	
- Required:	1 Tree / 30 LF frontage
- Length of Frontage:	124 LF
- Required:	5 Trees
- Provided:	5 Trees
<b>Selden Street North</b>	
- Required:	1 Tree / 30 LF frontage
- Length of Frontage:	124 LF
- Required:	5 Trees
- Provided:	5 Trees

## Landscape Legend

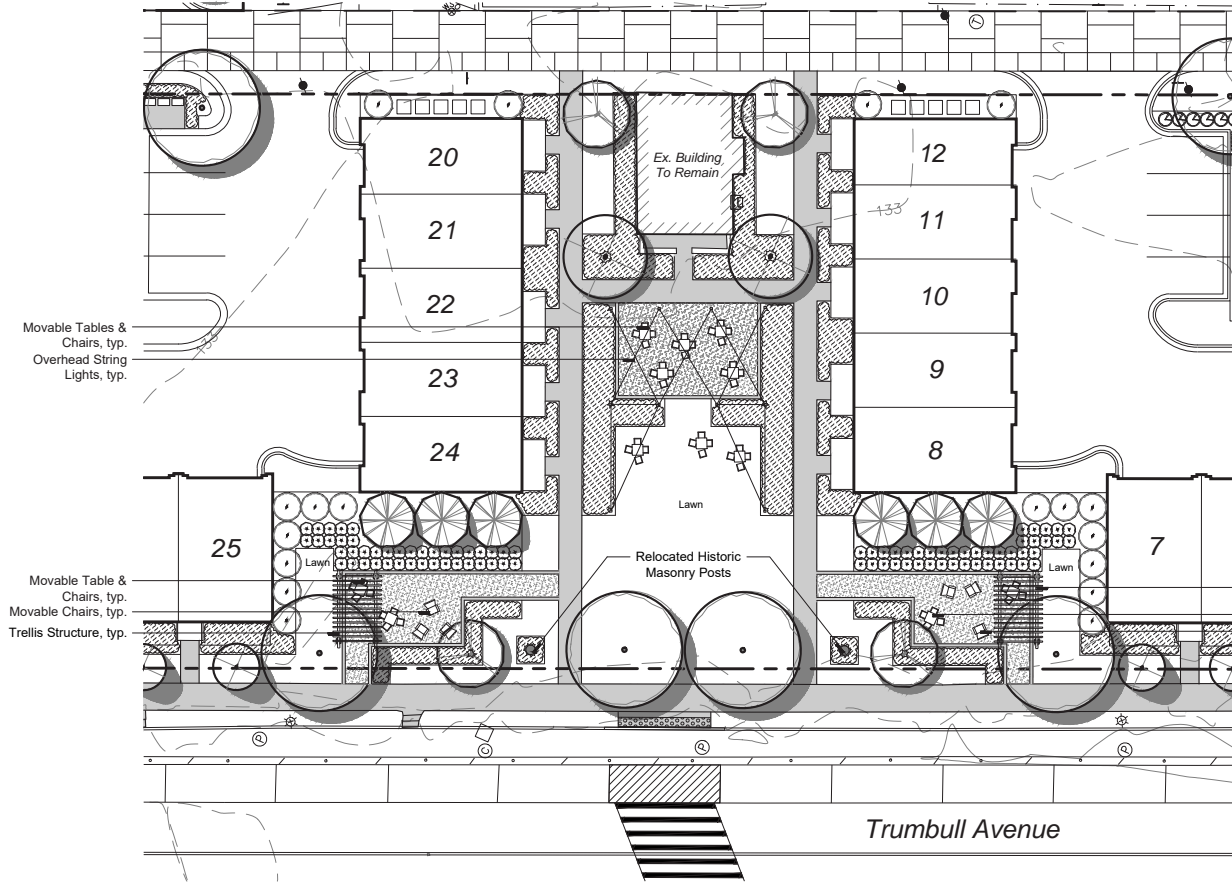


# LANDSCAPE PLAN

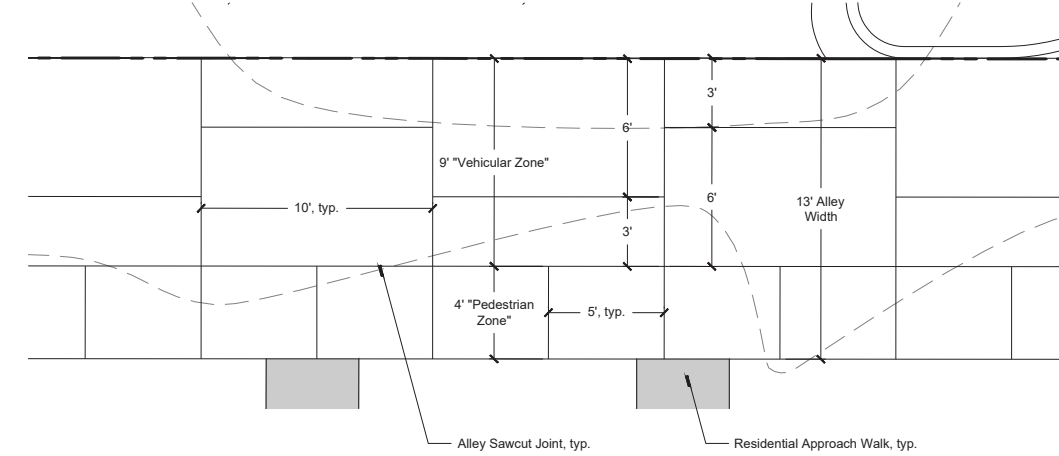


Decorative Alleyway Overall Enlargement Plan

Scale: 1" = 20'



Concept Amenity Enlargement Plan



Decorative Alleyway Typical Jointing Detail

Scale: 1/4" = 1'

## Walk Material Legend

- = Broom Finished Concrete Walk
- = Compacted Gravel / Fines Walk with 6"x6" Concrete Edging

## Landscape Legend

- = Proposed Shade Tree
- = Proposed Columnar Tree
- = Proposed Evergreen Tree
- = Proposed Ornamental Tree
- = Proposed Large Deciduous Shrub
- = Proposed Ornamental Grass
- = Proposed Perennial Planting Bed

Scale: 1" = 20'



## Hardscape Precedent Imagery



Decorative Trellis Structure  
(Potentially matching Scripps Park, or similar)



4' ht. Screen Fence - Color to match Architecture  
(For use between select buildings and as AC Unit screens)



4' ht. Screen Fence - Alternate Natural Finish  
(For use between select buildings and as AC Unit screens)



Mail Cluster Box Unit  
Includes Pedestal  
All Aluminum Construction  
SALSBURY



Overhead String Lights on Posts



Movable Chairs  
(Adirondack or Similar)



Movable Bistro Table & Chairs



Movable Bistro Table & Chairs



6' ht. Screen Wall - Brick to match Architecture

Note: The hardscape elements displayed here are to be considered conceptual and are subject to change as details are developed.

## Plant Material Precedent Imagery



Tulip Tree  
(Shade Tree)



Exclamation London Planetree  
(Shade Tree)



Armstrong Red Maple  
(Columnar Tree)



Slender Silhouette Sweetgum  
(Columnar Tree)



White Fir  
(Evergreen Tree)

Note: The plant material displayed here is to be considered conceptual and are subject to change as detailed planting plans are developed



Autumn Brilliance Serviceberry  
(Ornamental Tree)



Kousa Dogwood Tree  
(Ornamental Tree)



Diabolo Ninebark  
(Large Shrub)



Arctic Fire Red Twig Dogwood  
(Medium Shrub)



Dense Yew  
(Evergreen Shrub)



Karl Foerster Feather Reed Grass  
(Ornamental Grass)



Shenandoah Switchgrass  
(Ornamental Grass)



Purple Palace Coralbells  
(Perennial - Shade Application)



Big Blue Liriope  
(Perennial)



Dark Towers Penstemon  
(Perennial)



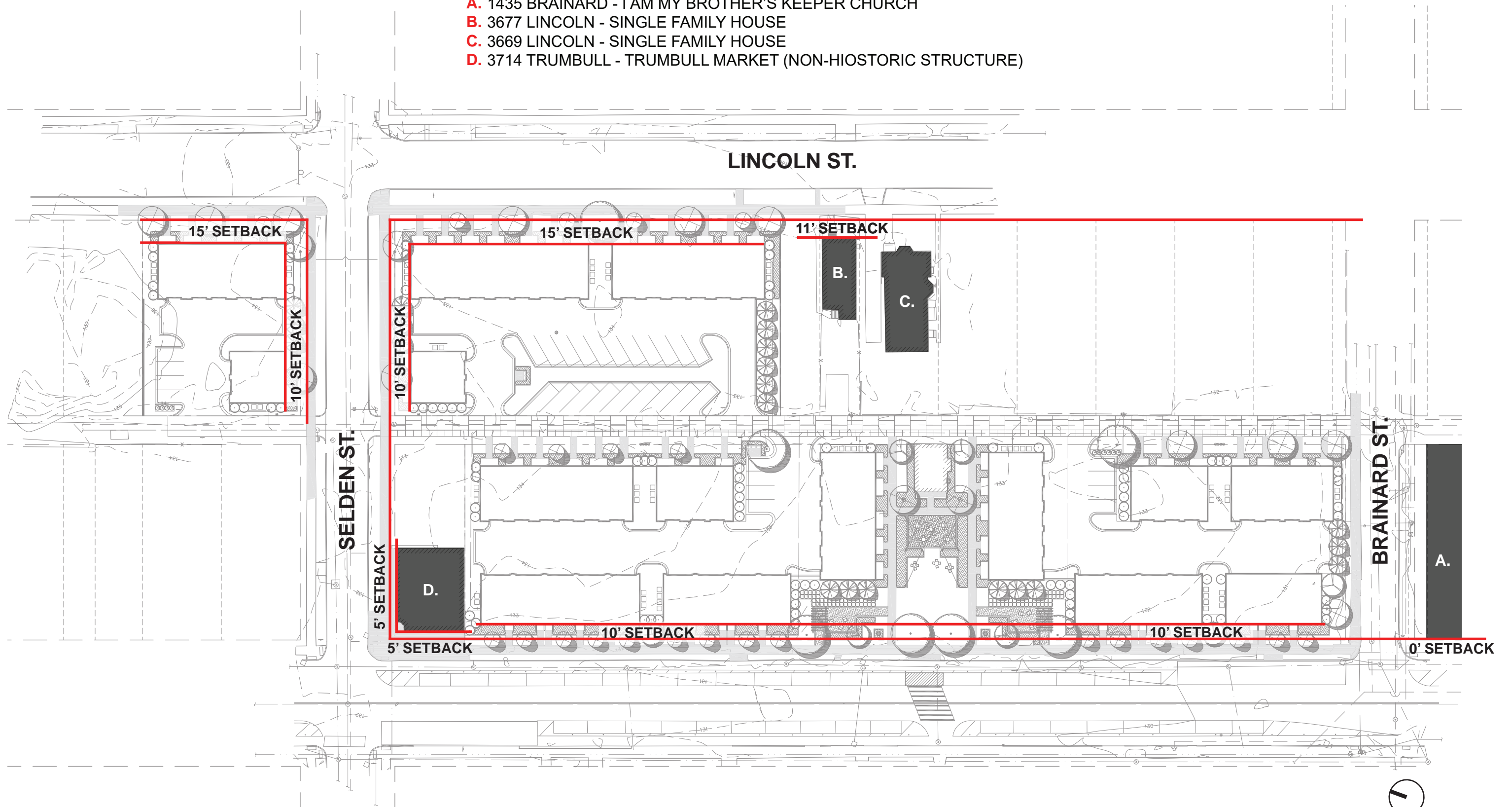
Little Business Daylily  
(Perennial)



# ADJACENT HISTORIC STRUCTURES / SETBACKS

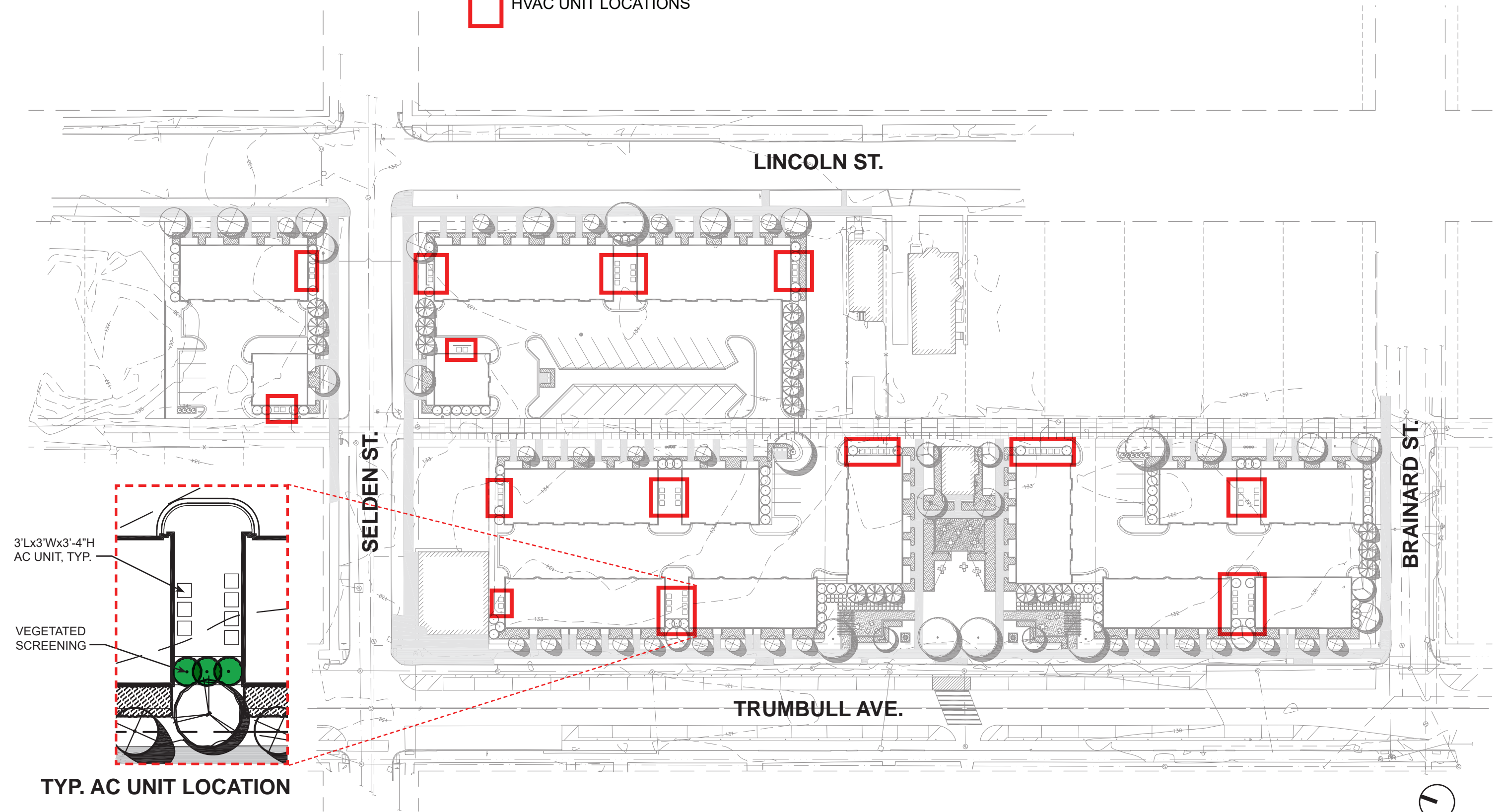
## KEY

- A. 1435 BRAINARD - I AM MY BROTHER'S KEEPER CHURCH
- B. 3677 LINCOLN - SINGLE FAMILY HOUSE
- C. 3669 LINCOLN - SINGLE FAMILY HOUSE
- D. 3714 TRUMBULL - TRUMBULL MARKET (NON-HIOSTORIC STRUCTURE)

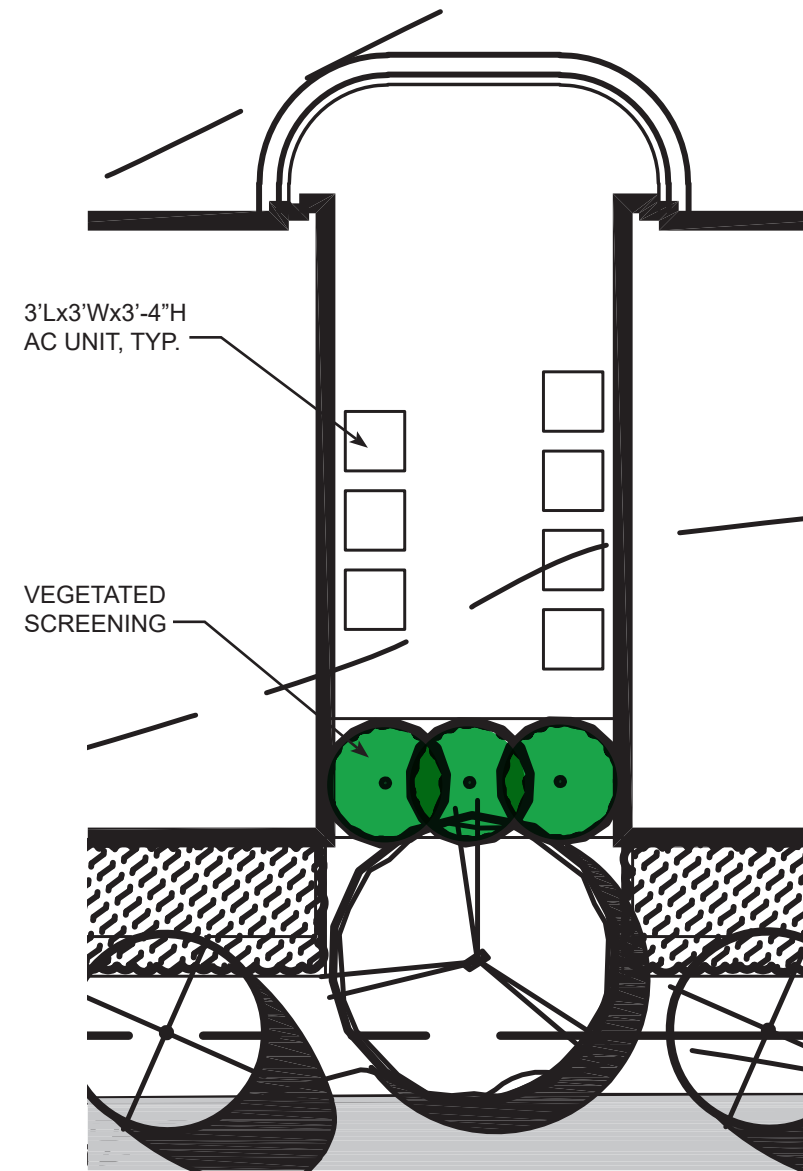


# HVAC UNIT LOCATIONS

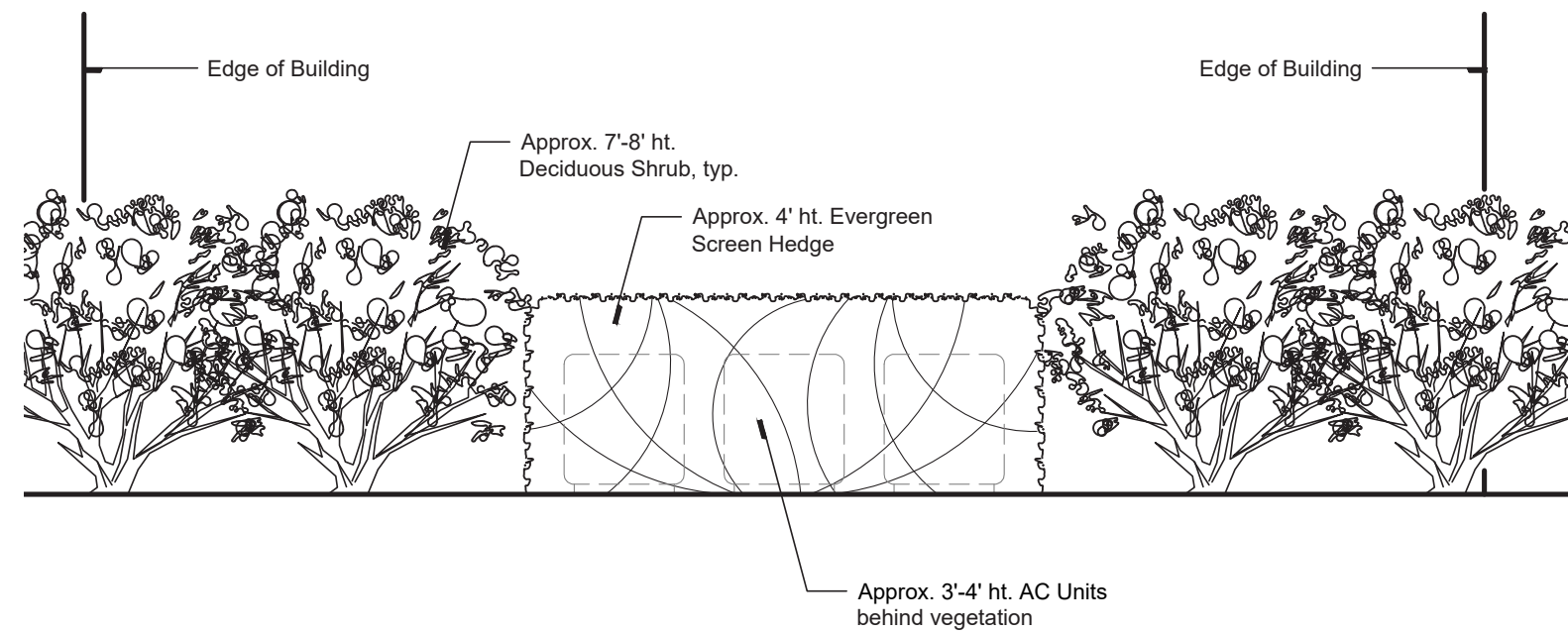
**KEY**  
HVAC UNIT LOCATIONS



# HVAC UNIT SCREENING



**TYP. AC UNIT LANDSCAPE  
SCREEN PLAN**  
NOT TO SCALE

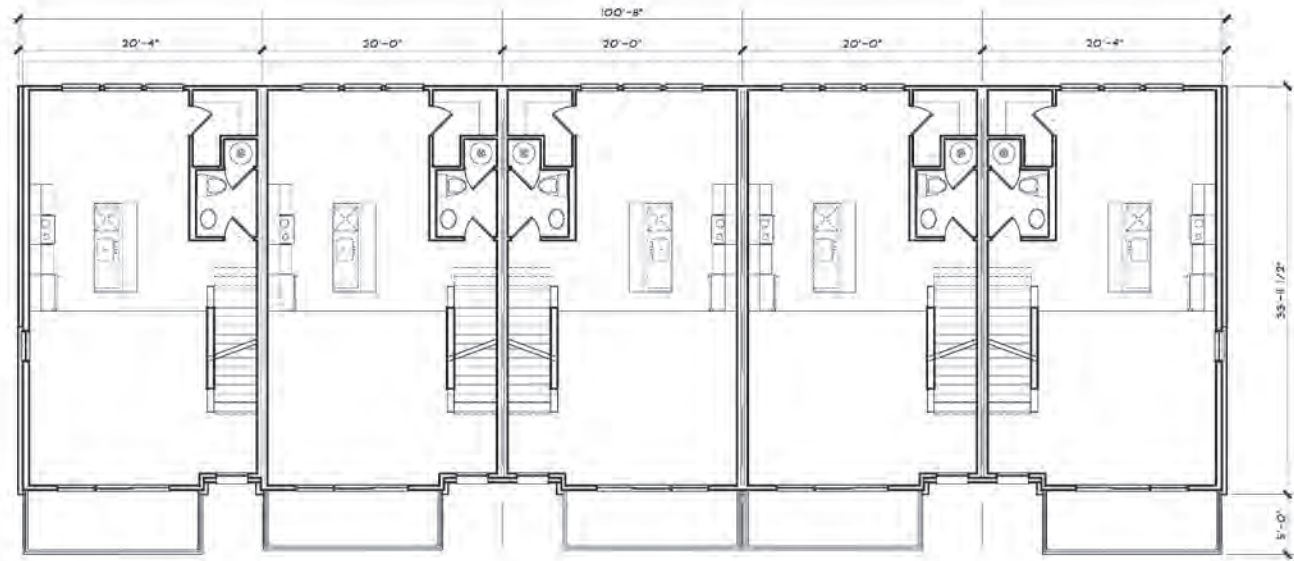


**TYP. AC UNIT LANDSCAPE  
SCREEN ELEVATION**  
NOT TO SCALE



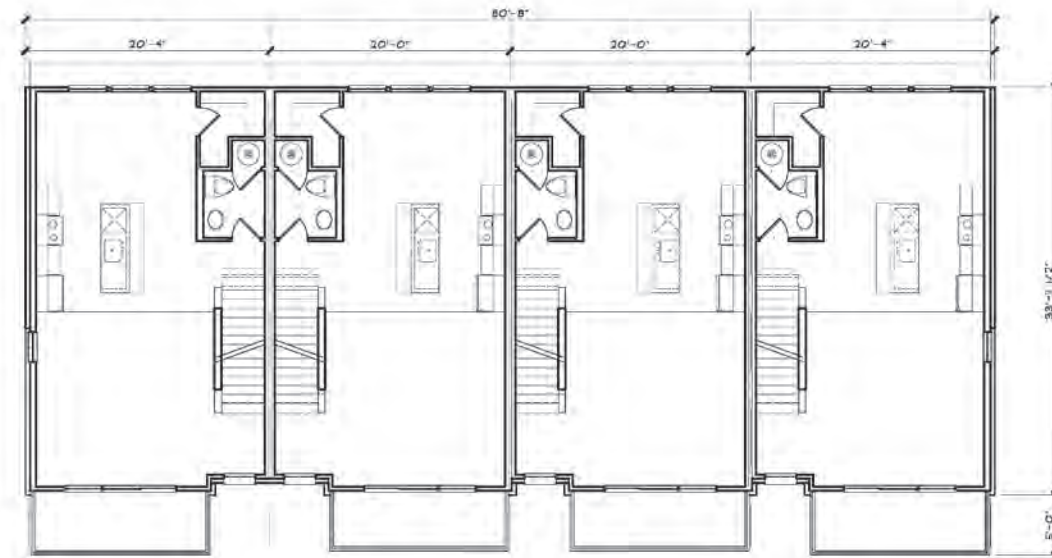
# TYPICAL BUILDING FLOOR PLANS

20' WIDE UNITS



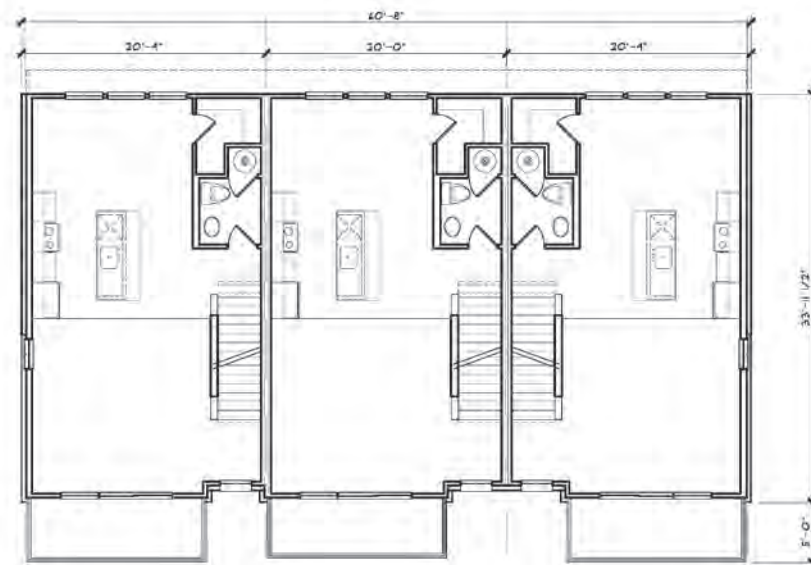
**FIRST FLOOR PLAN**  
5 UNIT BUILDING

SCALE: 1/8" = 1'-0"



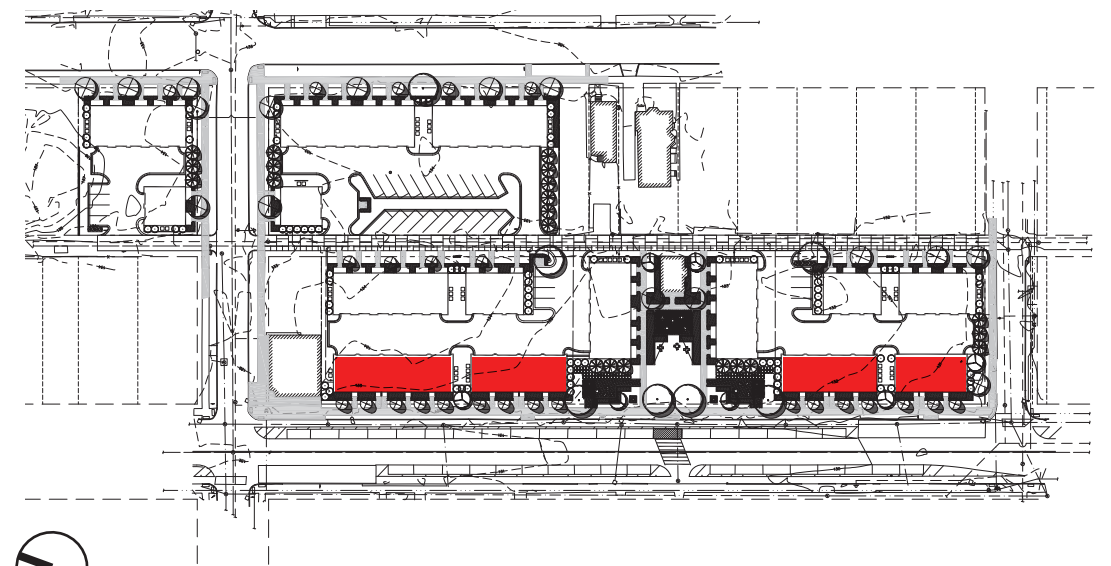
**FIRST FLOOR PLAN**  
4 UNIT BUILDING

SCALE: 1/8" = 1'-0"



**FIRST FLOOR PLAN**  
3 UNIT BUILDING

SCALE: 1/8" = 1'-0"



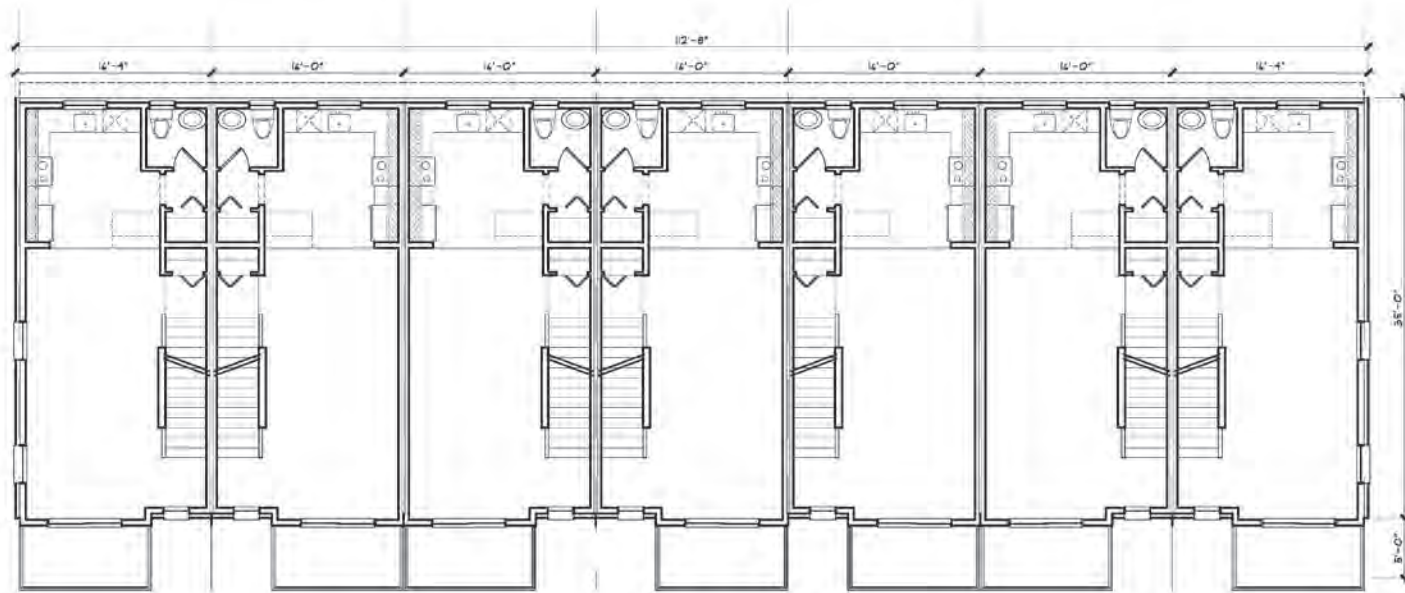
KEYPLAN





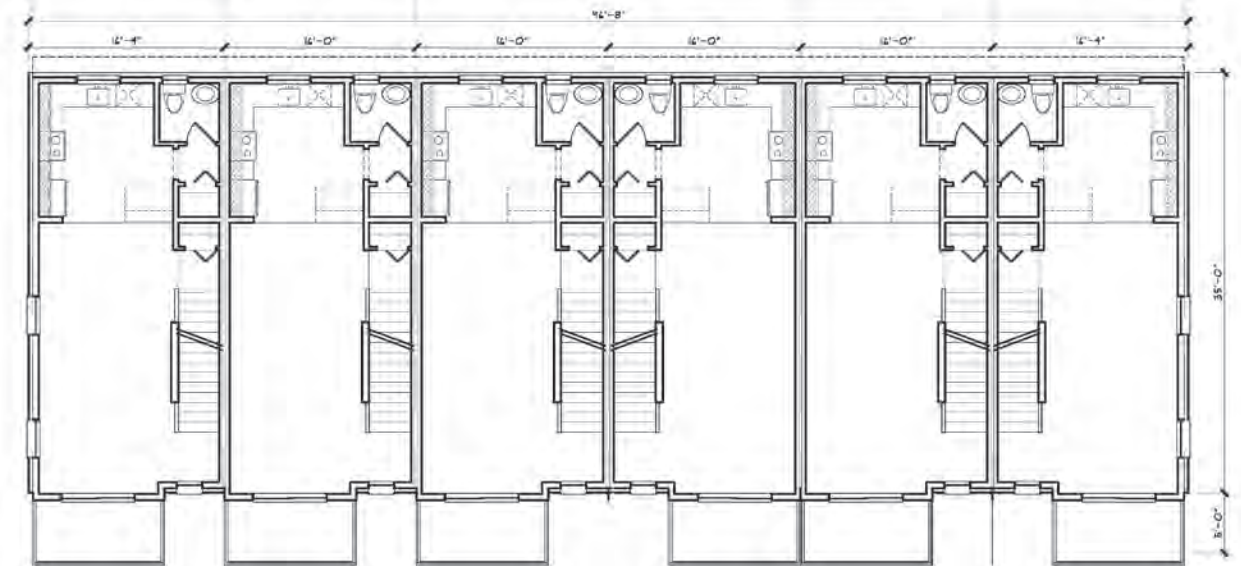
# TYPICAL BUILDING FLOOR PLANS

16' WIDE UNITS



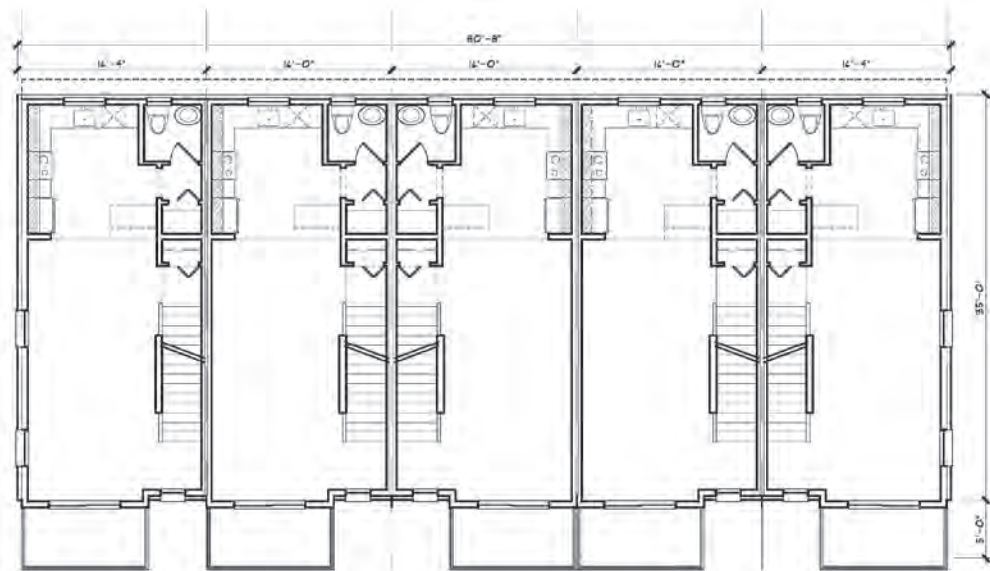
**FIRST FLOOR PLAN**  
7 UNIT BUILDING

SCALE: 1/8" = 1'-0"



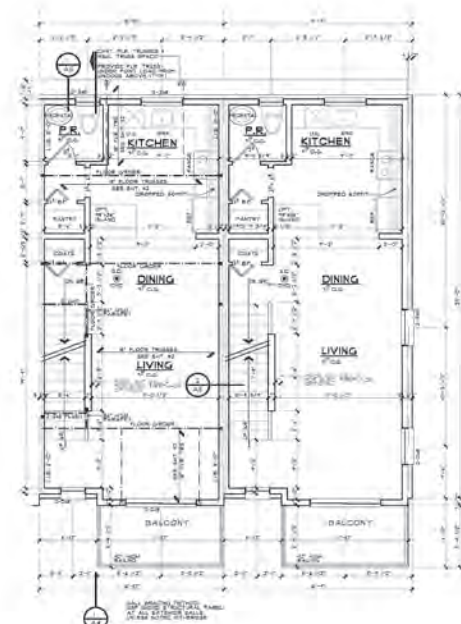
**FIRST FLOOR PLAN**  
6 UNIT BUILDING

SCALE: 1/8" = 1'-0"



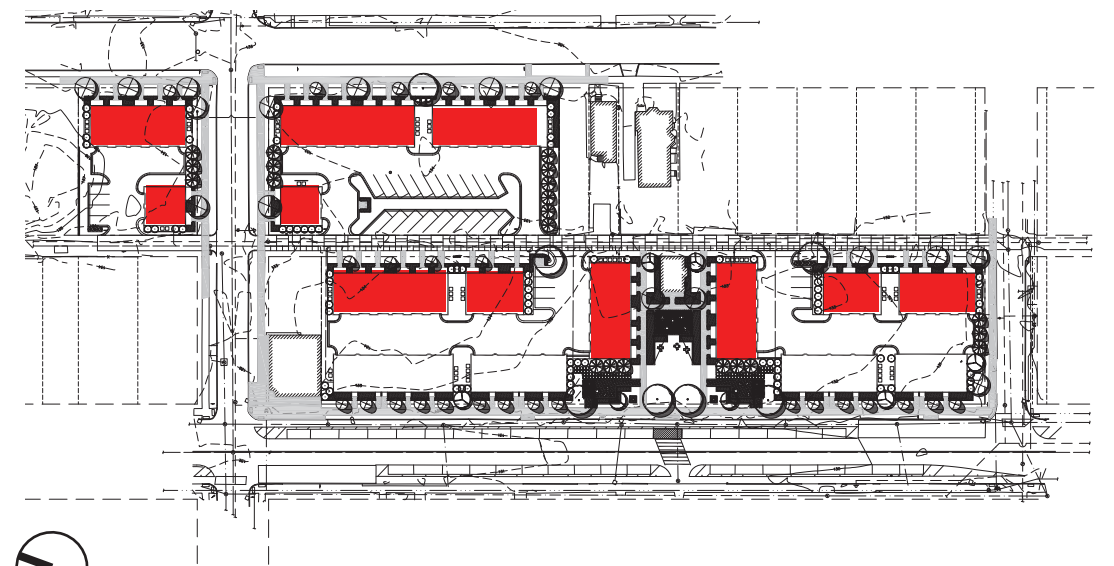
**FIRST FLOOR PLAN**  
5 UNIT BUILDING

SCALE: 1/8" = 1'-0"



**FIRST FLOOR PLAN**

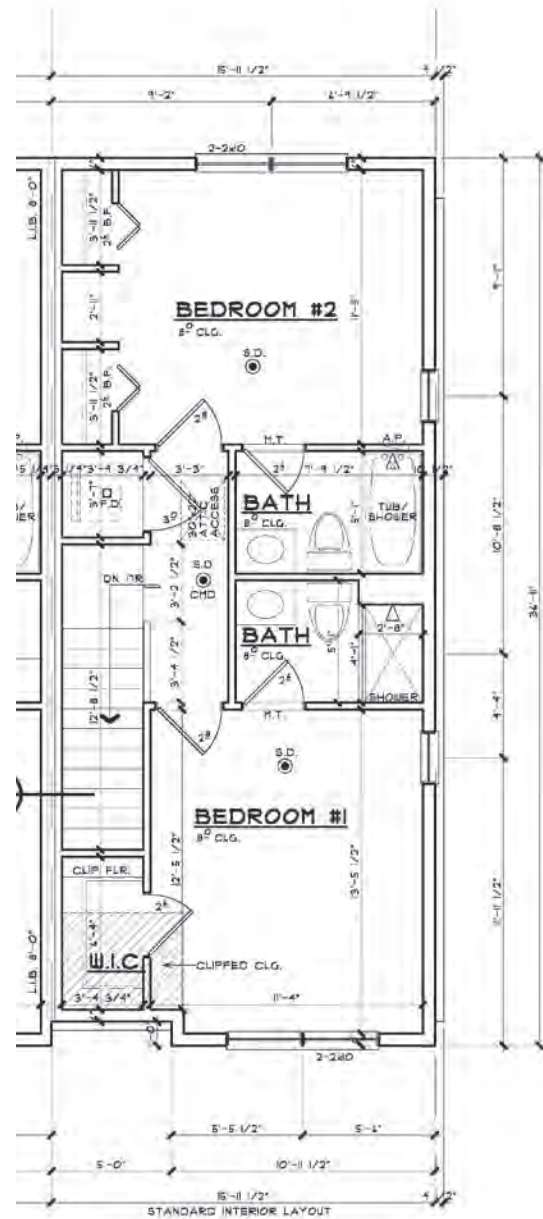
STANDARD INTERIOR LAYOUT



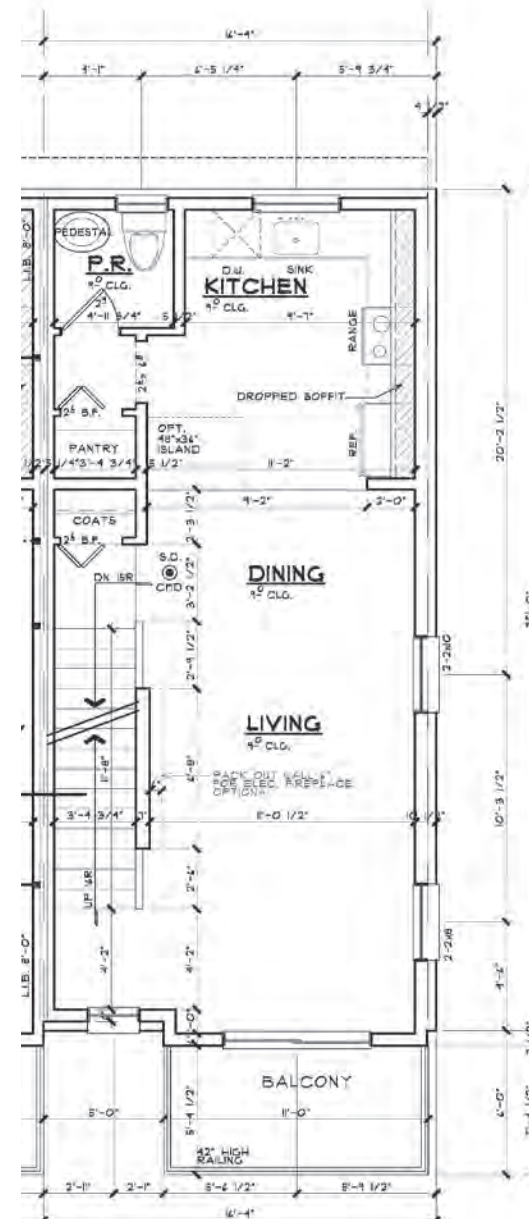
KEYPLAN

# TYPICAL UNIT FLOOR PLANS

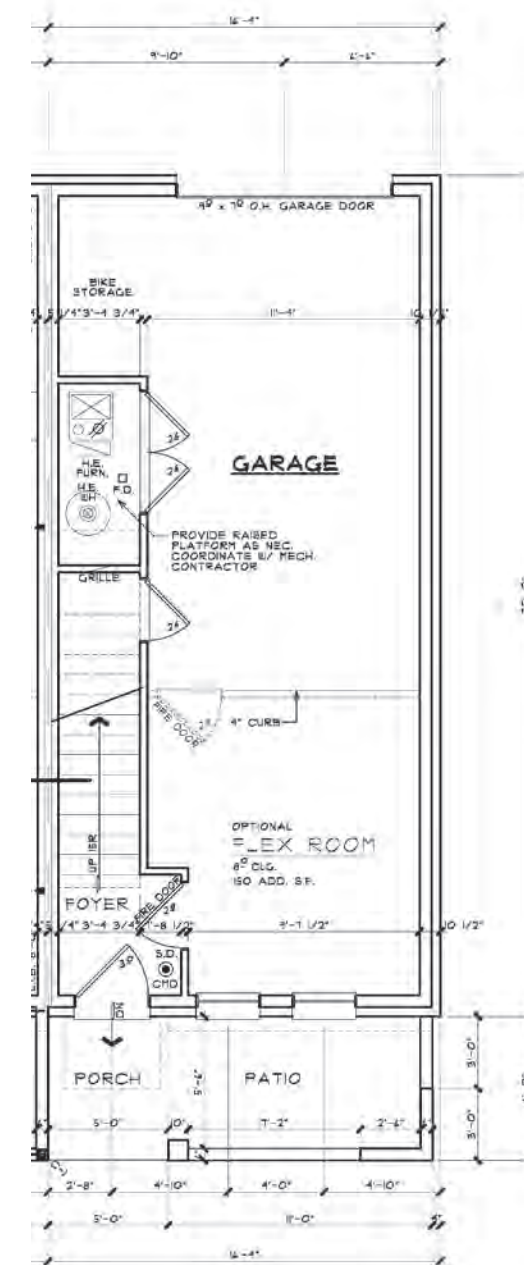
16' WIDE UNIT



SECOND FLOOR PLAN



FIRST FLOOR PLAN



GROUND FLOOR PLAN



# EXTERIOR ELEVATIONS

20' WIDE UNIT



**FRONT ELEVATION**  
(20' WIDE UNIT - 5 UNIT BUILDING)



**FRONT ELEVATION**  
(20' WIDE UNIT - 4 UNIT BUILDING)



**FRONT ELEVATION**  
(20' WIDE UNIT - 3 UNIT BUILDING)



# EXTERIOR ELEVATIONS

20' WIDE UNIT



**TYP. SIDE ELEVATION**  
(20' WIDE UNIT)



**TYP. REAR ELEVATION**  
(20' WIDE UNIT - 4 UNIT BUILDING SHOWN)





**20' WIDE UNITS ON TRUMBULL AVE.**



4545 architecture



# EXTERIOR ELEVATIONS

16' WIDE UNIT



**FRONT ELEVATION**  
(16' WIDE UNIT - 7 UNIT BUILDING)



**FRONT ELEVATION**  
(16' WIDE UNIT - 4 UNIT BUILDING)



**FRONT ELEVATION**  
(16' WIDE UNIT - 6 UNIT BUILDING)



**FRONT ELEVATION**  
(16' WIDE UNIT - 5 UNIT BUILDING)

# EXTERIOR ELEVATIONS

16' WIDE UNIT



**TYP. SIDE ELEVATION**  
(16' WIDE UNIT)



**TYP. REAR ELEVATION**  
(16' WIDE UNIT - 4 UNIT BUILDING SHOWN)





**16' WIDE UNITS ON LINCOLN ST.**

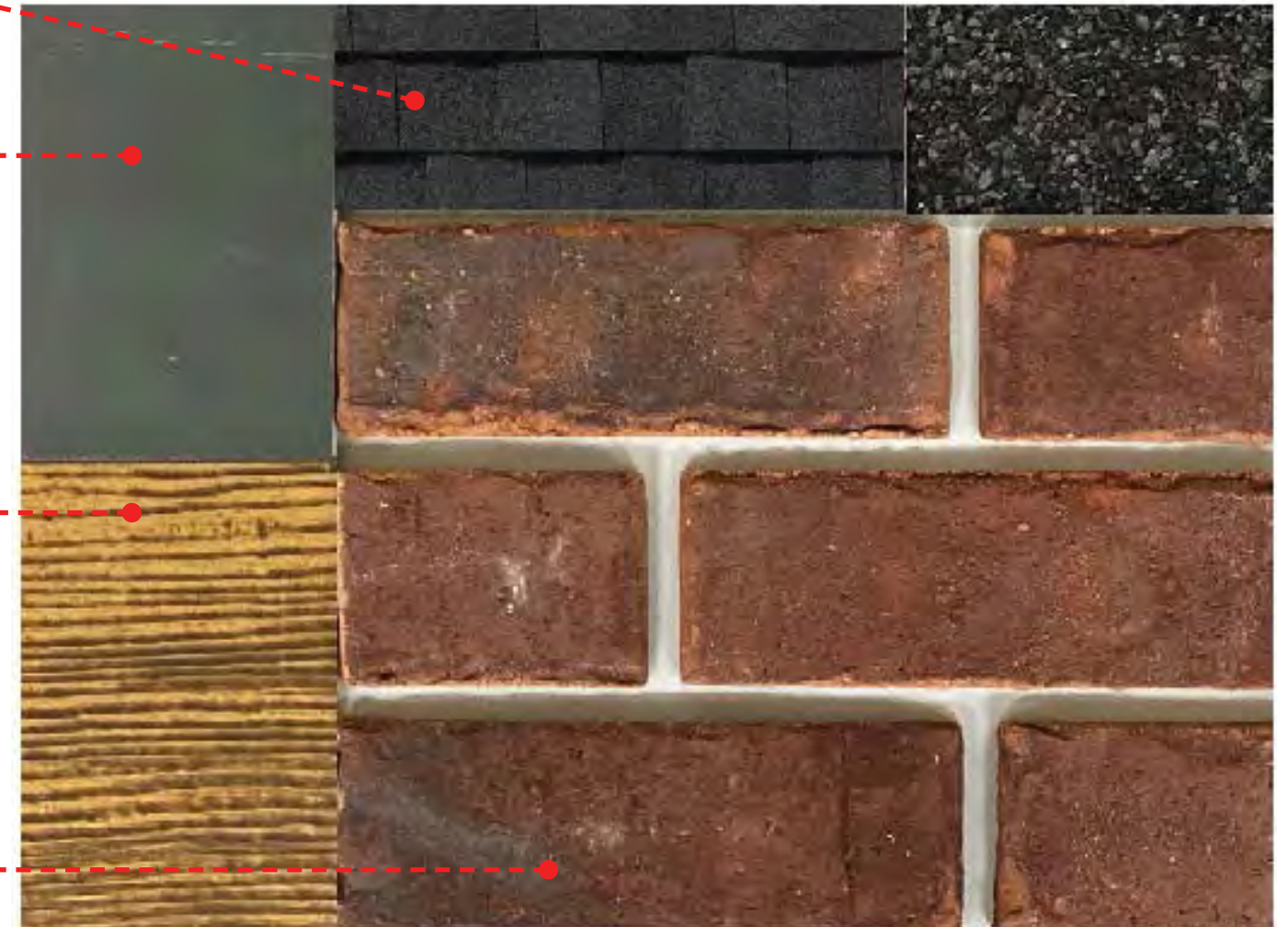


4545 architecture



# EXTERIOR FINISHES

“RED” SCHEME



**BRICK:** MERIDIAN - GRAND RIVER QUEEN

**PAINTED SIDING:** JAMES HARDIE LAP SIDING, IRON GRAY, SMOOTH

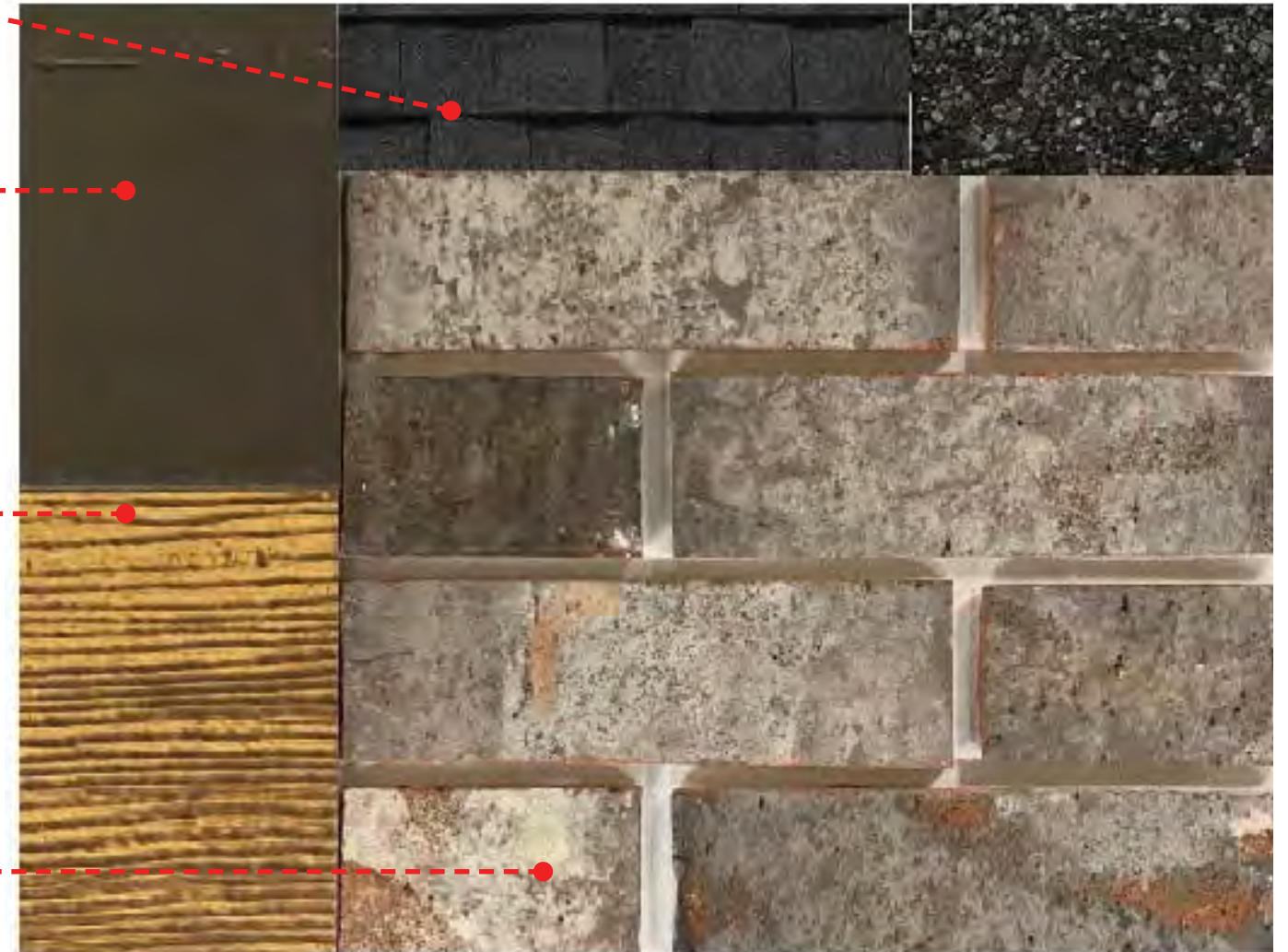
**WOOD SIDING:** WOODTONE STAINED - SUMMER WHEAT

**ROOF SHINGLES:** CERTAINTEED - MOIRE BLACK



# EXTERIOR FINISHES

“GRAY” SCHEME



**BRICK:** BRICK CRAFT - CORAL BLEND QUEEN

**PAINTED SIDING:** JAMES HARDIE LAP SIDING, RICH ESPRESSO, SMOOTH

**WOOD SIDING:** WOODTONE STAINED - SUMMER WHEAT

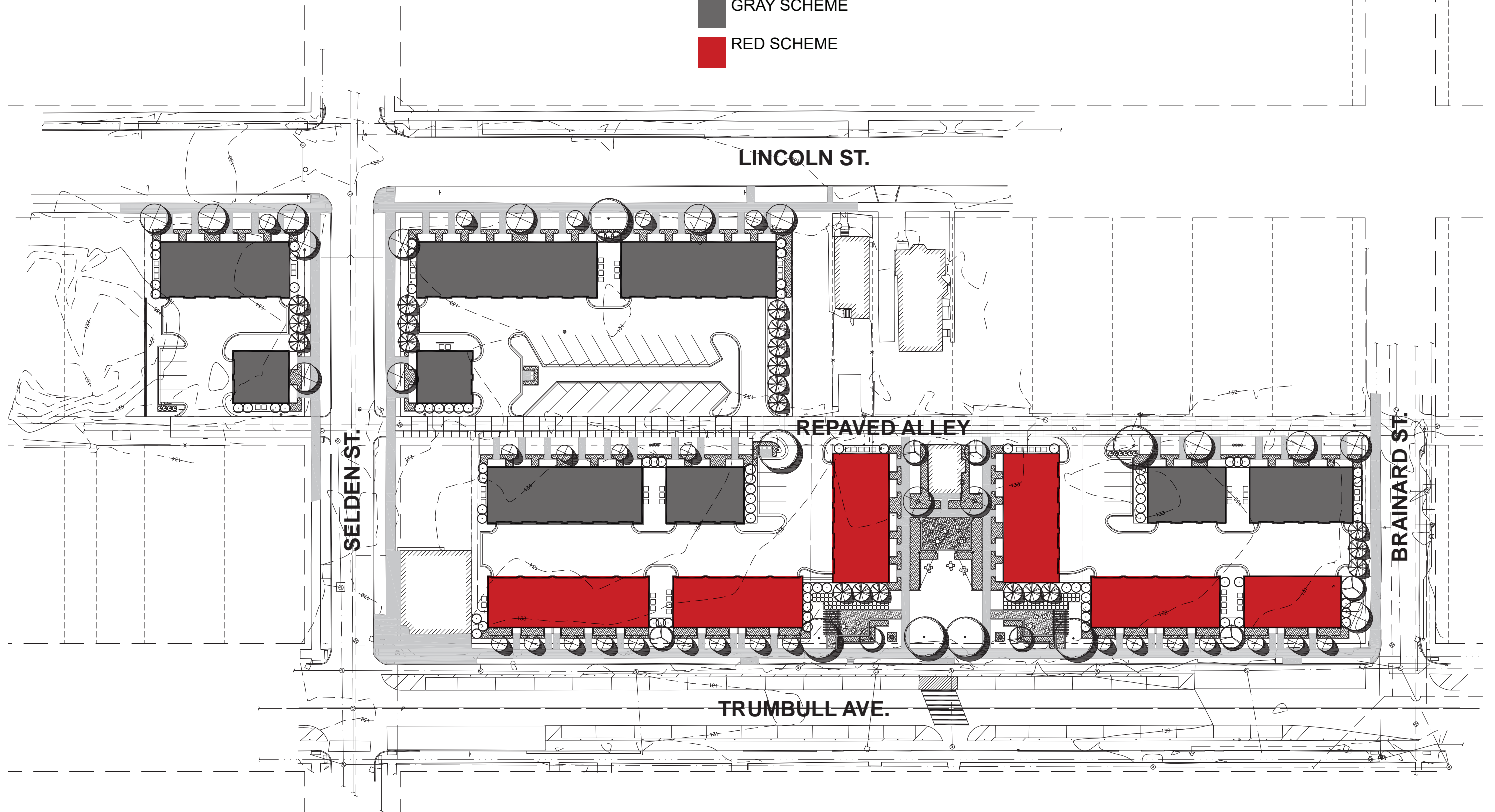
**ROOF SHINGLES:** CERTAINTEED - MOIRE BLACK



# EXTERIOR FINISHES

## COLOR SCHEME LOCATIONS

- KEY**
- GRAY SCHEME
  - RED SCHEME

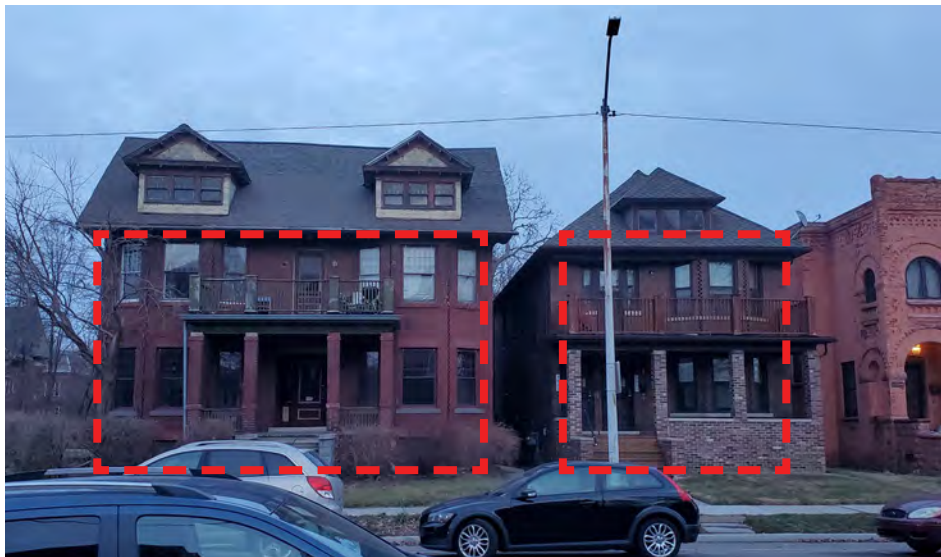




# DESIGN CONTEXT OBSERVATIONS

## VARIATION IN BUILDING WIDTH / RHYTHM IN STREET WALL

THERE IS A MIX OF BUILDING TYPES THROUGHOUT THE DISTRICT, FROM SINGLE-FAMILY HOMES TO DUPLEXES AND MULTI-FAMILY BUILDINGS. THIS CREATES VARIATION IN BUILDING WIDTH, WITH NARROW HOUSES SITUATED NEXT TO WIDER MULTI-UNIT BUILDINGS



**16' WIDE UNIT**  
(PARTIAL ELEVATION ALONG LINCOLN ST.)



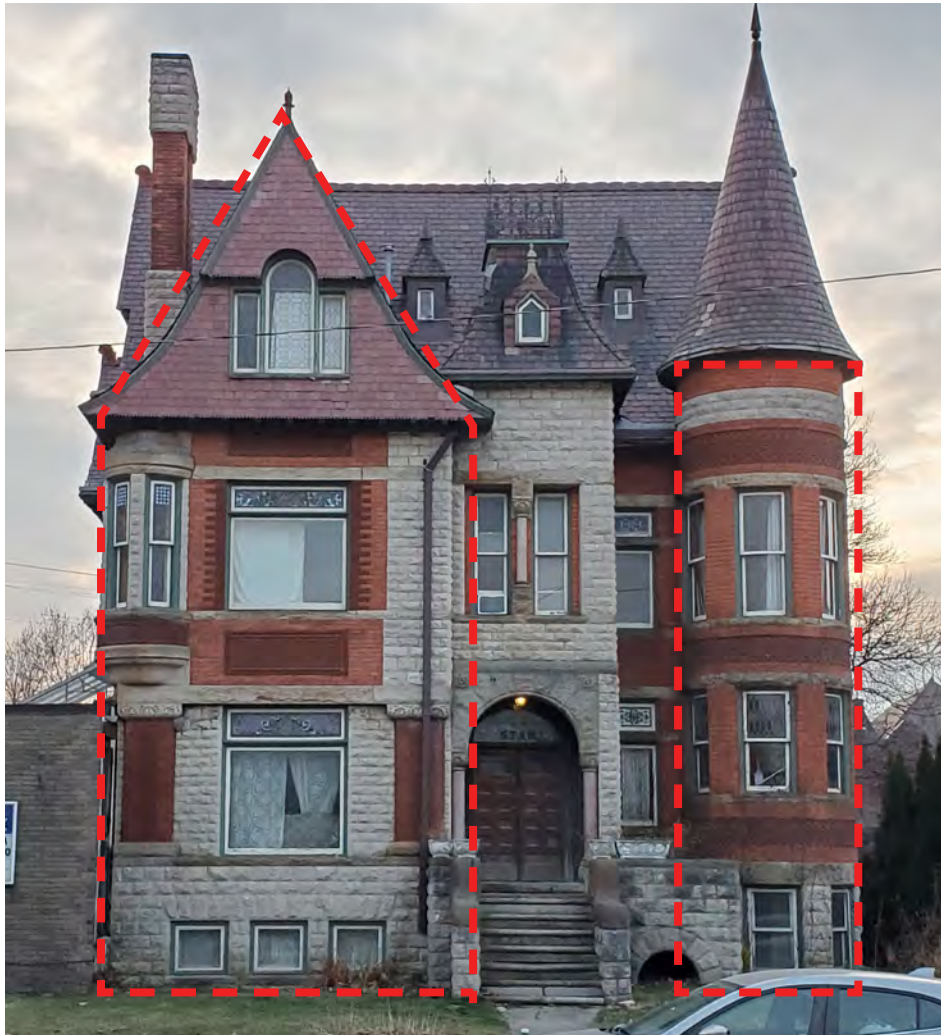
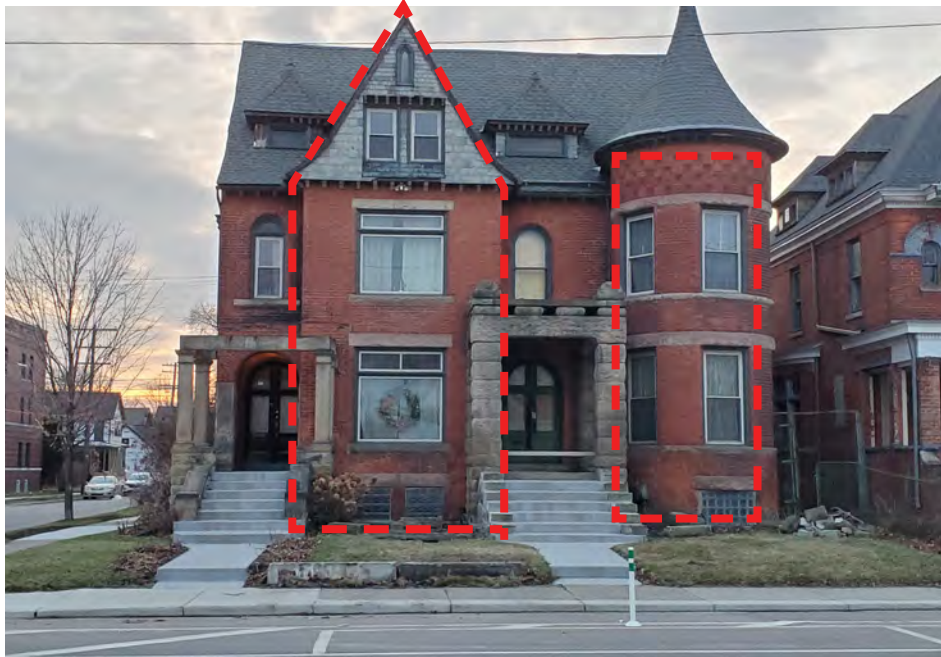
**20' WIDE UNIT**  
(PARTIAL ELEVATION ALONG TRUMBULL AVE.)



# DESIGN CONTEXT OBSERVATIONS

## ARCHITECTURAL PROJECTIONS / CHANGE IN FACADE PLANE

MANY OF THE LARGER HOMES IN THE DISTRICT FEATURE FACADES ELEMENTS THAT PROJECT FORWARD, BREAKING DOWN THE SCALE OF THE BUILDING AND MAINTAINING A VERTICAL EXPRESSION.



20' WIDE UNIT  
(TYPICAL FRONT ELEVATION)

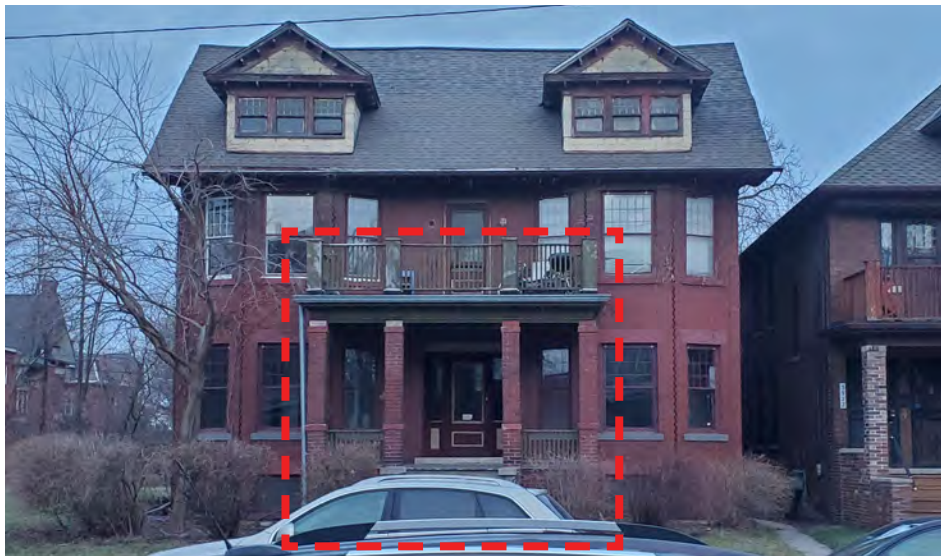


16' WIDE UNIT  
(TYPICAL FRONT ELEVATION)



# DESIGN CONTEXT OBSERVATIONS

## 2-STORY FRONT PORCH ELEMENTS



20' WIDE UNIT  
(TYPICAL FRONT ELEVATION)



16' WIDE UNIT  
(TYPICAL FRONT ELEVATION)



# DESIGN CONTEXT OBSERVATIONS

## MIX OF BRICK AND HORIZONTAL SIDING

THROUGHOUT THE DISTRICT, THERE ARE MANY EXAMPLES OF BUILDINGS UTILIZING MULTIPLE SIDING TYPES. A COMMON COMBINATION IS BRICK FOR THE FIRST STORY, AND HORIZONTAL SIDING ABOVE .



20' WIDE UNIT  
(TYPICAL FRONT ELEVATION)



16' WIDE UNIT  
(TYPICAL FRONT ELEVATION)



# HISTORIC CONTEXT



**TRUMBULL HISTORIC CONTEXT**  
SCALE: 1" = 10'-0"



**LINCOLN HISTORIC CONTEXT**  
SCALE: 1" = 10'-0"



## 1. HEIGHT

stories tall. The proposed project features buildings that are 3 stories tall, which is within the range of existing building heights.

## 2. PROPORTION OF BUILDING FACADES

There are a variety of building types in the district, creating a variety of facade proportions. The proposed project features buildings comprised of two to seven townhouses. While the proposed buildings are wider than they are tall, each unit is designed with an asymmetrical 3-story projection at the front facade, which emphasizes verticality. Individual units are mirrored within each building in a way that created variation and rhythm along each facade.

## 3. PROPORTION OF OPENINGS

The varied housing styles within the district create a variety of opening organization strategies. Most windows are taller than they are wide, but are sometimes grouped together. The proposed buildings feature windows that are generally taller than they are wide. On the front and rear facades, windows are usually grouped together to create a horizontal expression, similar to many houses in the district.

## 4. RHYTHM OF SOLIDS AND VOIDS

The proposed buildings use a high degree of organization in the relationships between the position of openings on each facade. This is similar to many of the Italianate and apartment-style buildings in the district.

## 5. RHYTHM OF SPACING BUILDINGS ON STREETS

Since many homes in the district have been lost to demolition, there is no overall rhythm to spacing of buildings. The proposed development features a relatively consistent spacing between buildings of 15'-0", however, a larger space is left in the center of the development along Trumbull to create a community lawn space and to frame views to the existing power house structure.

## 6. RHYTHM OF ENTRANCE/PORCH PROJECTIONS

Steps and porches exist on all of the residential buildings in the district. Front porches are or in the centers of the front facades on duplexes. The proposed development features two-story porch projections that are aligned to one side of the unit, which is consistent with the district.

# ELEMENTS OF DESIGN

## CITY OF DETROIT CODE OF ORDINANCES SECTION 21-2-155 WOODBRIDGE FARMS HISTORIC DISTRICT

### 7. RELATIONSHIP OF MATERIALS

The district exhibits a wide variety of building materials characteristic of Victorian architecture. Some Queen

elevations, the brick extends up to either the top of the second story, or up to the eave. The rest of the buildings are clad in a painted horizontal siding and wood-look accent siding. The mix of materials is consistent with the district.

### 8. RELATIONSHIP OF TEXTURES

The development's mix of brick, smooth lap siding, and wood-look siding create a variety of texture similar to many of the Victorian and Queen Anne style buildings in the district that also use a mix of brick and various siding types to create textural contrast.

### 9. RELATIONSHIP OF COLORS

Many buildings in the district feature brick with contrasting trim and siding colors. The proposed buildings feature two color schemes, one with red brick, one with gray brick. Both color schemes include darker siding and trim to contrast with each brick color. In addition, the lighter wood-look accent siding contrasts with the dark siding.

### 10. RELATIONSHIP OF ARCHITECTURAL DETAILS

The majority of buildings in the district are highly ornate Victorian homes with articulated wood detailing. In order to set this development apart, and allow it to express its own time, more stream-lined contemporary detailing is used throughout. The overall proportions and material palate complements the district, and the use of less-ornate detailing allows the development to recede visually and act as a backdrop for the ornate historic buildings.

### 11. RELATIONSHIP OF ROOF SHAPES

The predominant roof shapes in the district are gables, hips, and mansards. The proposed buildings feature a large side-facing gable across the entire building, and multiple front facing shed-style roofs over projections along the front facade. The use of shed-style roofs is another way to simplify the detailing of the buildings in order for them to speak more to their time of construction instead of try to match their historic counterparts. However, the use of multiple roof types within each building is consistent with the character of the district.



## 12. WALLS OF CONTINUITY

The proposed project is designed with total alignment of the structure building to front setback of the adjacent buildings. This direct alignment will reinforce the primary wall of continuity on this block of Trumbull.

## 13. RELATIONSHIP OF LANDSCAPE FEATURES AND TREATMENTS

The proposed project is designed to be in keeping with the landscape and surface treatments that exist along Trumbull Avenue. These elements will consist concrete walks up to the front entrances, two “outdoor rooms” along Trumbull with crushed stone surfaces edged with brick pavers, and the resurfaced alley consisting of stamped concrete. The majority of the site area at the front of buildings is lawn with planted areas featuring ornamental grasses and small shrubs directly in front of the at-grade porch areas. Parking areas at the rear of buildings will be paved with asphalt.

## 14. RELATIONSHIP OF OPEN SPACE TO STRUCTURES

The proposed development seeks to revitalize a large portion of open land at the south end of the district. The existing Scripps power house currently stands along in the middle of the vacant land, but the project proposes to make it a focal point within a pocket of open space in the center of the development. The resulting relationship of proposed open space to structures is appropriate relative a pre-demolition version of the district.

## 15. SCALE OF FACADES AND FACADE ELEMENTS

Buildings in the district range from small to large. For example, some duplexes are twice as wide as the single family homes they are next too. Some larger single family homes are broken up into multiple masses to break down their scale. The proposed buildings are each made up of a series of townhouse units. Each unit features an asymmetrical front projection to break up its mass and express verticality. These asymmetrical units are mir-

facade elements, keeping with the character of the development.

## 16. DIRECTIONAL EXPRESSION OF FRONT ELEVATIONS

Each individual townhouse unit has an asymmetrical vertical expression. Sometimes, two units are mirrored within a building so that their large forward projection are joined, creating a more neutral directional expression. The variety created by this is consistent with the variety of building types found in the district.

## 17. RHYTHM OF BUILDING SETBACKS

The proposed buildings along Trumbull are inline with the adjacent Trumbull Market building, as well as the church to the south. The buildings on Lincoln are inline with the existing home to the south.

# ELEMENTS OF DESIGN

## CITY OF DETROIT CODE OF ORDINANCES SECTION 21-2-155 WOODBRIDGE FARMS HISTORIC DISTRICT

### 18. RELATIONSHIP OF LOT COVERAGE

Buildings in the district typically occupy approximately between 40 percent to 95 percent of their, sites. This development occupies approximately 30 percent of the overall site, which is similar to the overall district. This slightly lower lot coverage is due to providing a public outdoor space at the center of the development.

### 19. DEGREE OF COMPLEXITY WITHIN THE FACADE

The district features buildings with a range of complexity in massing, textures, and materials based on individual styles. The proposed buildings feature relatively contemporary styling, with minimal detailing, but an overall complexity of massing that is complimentary to the district.

### 20. ORIENTATION, VISTAS, OVERVIEWS

Most buildings in the district are oriented toward the major north-south streets. An exception is on Selden, where some buildings are oriented toward Selden. The majority of the proposed buildings are oriented toward the north-south streets, including buildings that front the redeveloped alley. Two small buildings face Selden. This orientation strategy is in line with the district.

### 21. SYMMETRIC OR ASYMMETRIC APPEARANCE

The proposed buildings are made up of townhouse units that feature an asymmetrical appearance, similar to the majority of existing buildings in the district.

### 22. GENERAL ENVIRONMENTAL CHARACTER

the district. It reconnects large stretches of the streetscape along Trumbull and Lincoln. The contemporary character of the development features massing that is complementary to the existing historic buildings, but the more modest streamlined detailing allows the development to act as backdrop for the more expressive historic structures to remain the focal points of this unique district.





**POWER HOUSE AND COMMUNITY LAWN**







## GUEST PARKING







## RECLAIMED ALLEY





## PROJECT NARRATIVE

The existing Power House building is a 2-story brick structure on the Scripps Mansion site. It is the only remaining structure from the original development. The goal of the project is to renovate the structure to become a detached residential condominium unit as part of the Towns@Scripps Park development. Visually, it will become the focal point of the newly created community lawn space across from one of the entrances to Scripps Park.

The roof

beyond repair. In addition to this damage, all of the original windows and doors have been removed, with openings being boarded or blocked in with CMU.

The proposed project completely renovates the interior including recon-

two-story space at the front of the building. New stairs will be constructed connecting the basement (utility space), ground , mezzanine, and roof. The roof structure will also be reconstructed with wood framing, a new membrane roof, and a roof deck with glass railing. A glass access hatch will be installed to provide access to the roof while remaining low enough to be visually concealed by the existing parapet when viewed from the ground.

New aluminum-clad wood windows will be installed in all window openings. A new wood entry door will be installed at the front entrance.

Windows on the south elevation toward the rear of the building will have These windows do not have the ornate stone detailing featured at windows closer to the front of the building, and are partially concealed from view by the chimney structure in front of them.

Additional work includes the reconstruction of the collapsing mason-

from brick and stone, and reconstruction in-kind of the wood railing and header detail on the west facade of the building as well as typical brick repairs and tuckpointing as required.

## PROJECT SCOPE

### DEMOLITION

- Demolish remaining portions of existing brick wall along alley adjacent to building. Salvage brick to be used as required for repair of building.
- 
- 
- Demolish existing interior stair
- 

### INTERIOR WORK

- 
- 
- 
- Install new kitchen and bathrooms, refer to plans. , and roof

### EXTERIOR WORK

- Install new glass access hatch at roof
  - Construct new roof deck with guard rail
  - Install new aluminum-clad wood windows at all window openings
  - Raise sill of window at rear south elevation of building, coordinate with in-
- new windows.

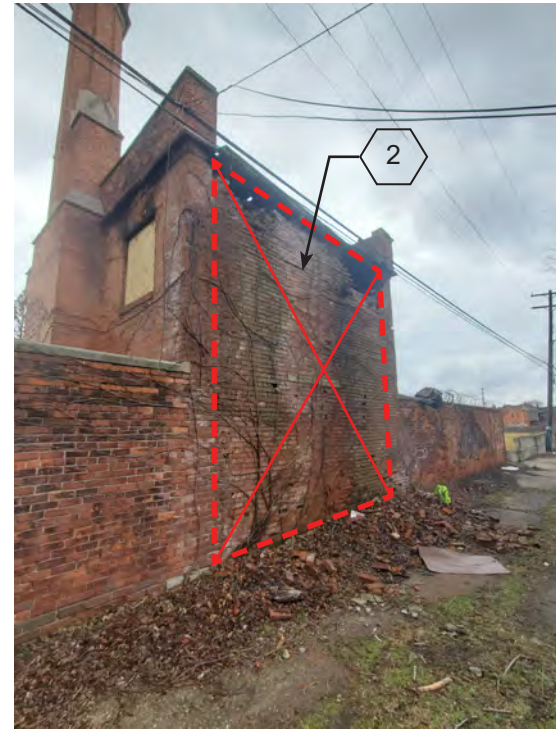


# POWER HOUSE RENOVATION

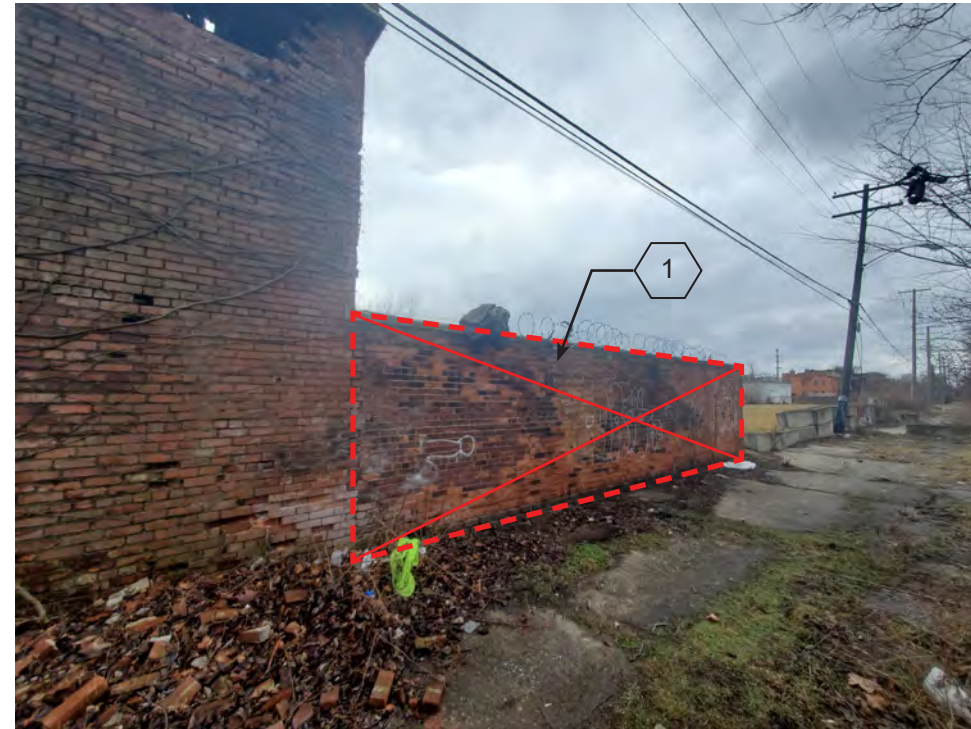
## EXTERIOR DEMOLITION WORK



WINGWALL ELEVATION



EAST ELEVATION



WINGWALL ELEVATION

### DEMOLITION KEYNOTES

- 1 DEMOLISH REMAINING BRICK FENCE/WALL. SALVAGE BRICK
- 2 DEMOLISH COLLAPSING REAR BRICK WALL. SALVAGE BRICK
- 3 REMOVE DAMAGED/ROTTED WOOD DETAILING. DOCUMENT PROFILES FOR IN-KIND REPLACEMENT



SOUTH ELEVATION



NORTH ELEVATION



WEST ELEVATION

3

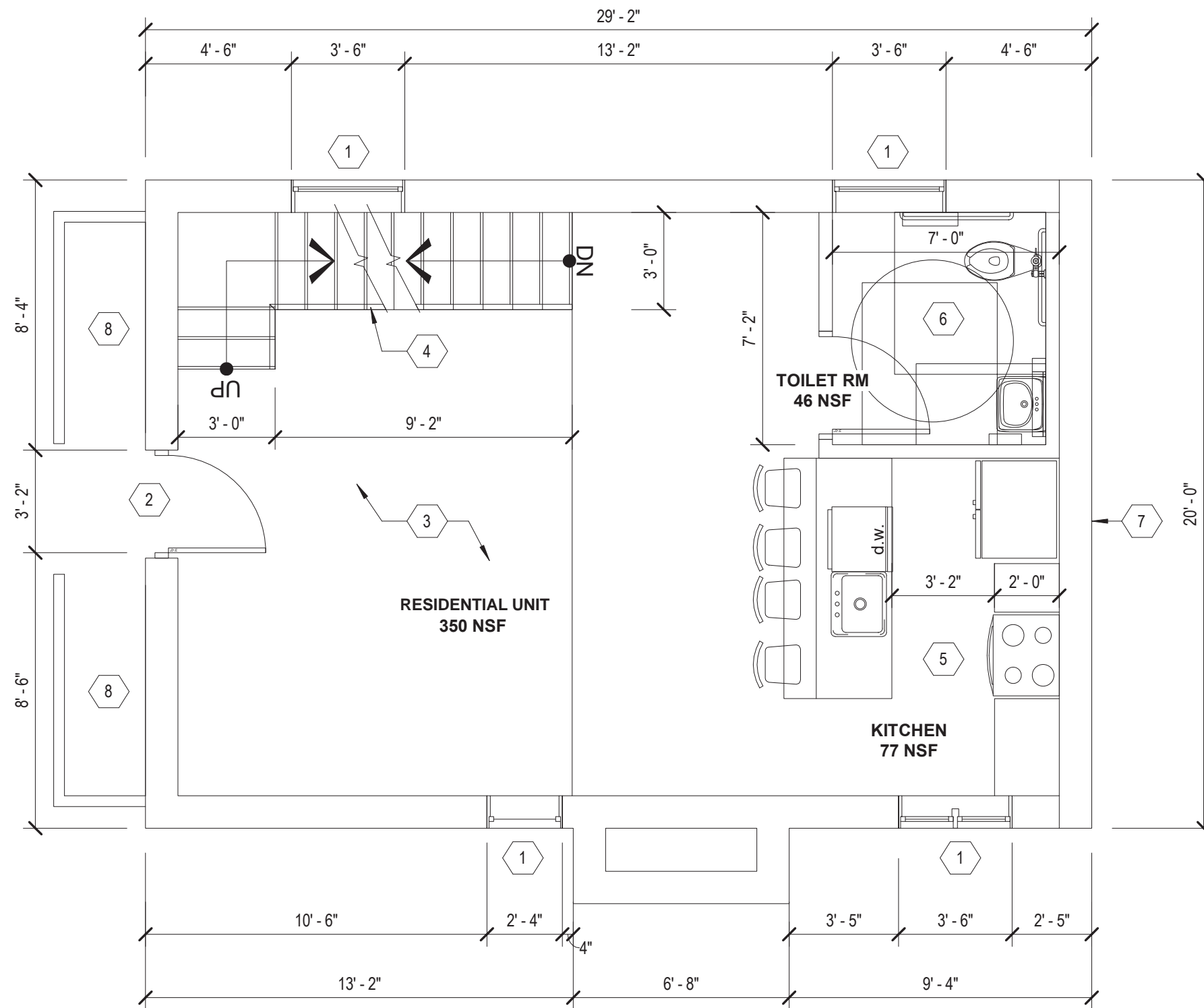


# POWER HOUSE RENOVATION

## NEW WORK PLANS

### PLAN KEYNOTES

- 1 NEW ALUM CLAD WOOD WINDOWS. BASIS OF DESIGN: PELLA ARCHITECTURAL SERIES TRADITIONAL. EXTERIOR COLOR: BLACK
- 2 NEW WOOD ENTRY DOOR. SEE CUTSHEET FOR SELECTION
- 3 NEW FLOOR FINISH ON WOOD SUBFLOOR AND FRAMING. REPAIR, REPLACE, AND INFILL EXISTING FLOOR FRAMING AS REQUIRED.
- 4 NEW STAIR
- 5 INSTALL KITCHEN CABINETS, COUNTERTOPS, AND APPLIANCES. SELECTIONS TBD.
- 6 NEW TOILET ROOM INCLUDING TILE FLOOR FINISH, FIXTURES, AND ADA ACCESSORIES. SELECTIONS TBD.
- 7 RECONSTRUCT MASONRY WALL WITH SALVAGED BRICK
- 8 RECONSTRUCT WOOD PORCH RAIL DETAILING IN KIND. INTACT PORTION TO BE USED AS BASIS OF DESIGN



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

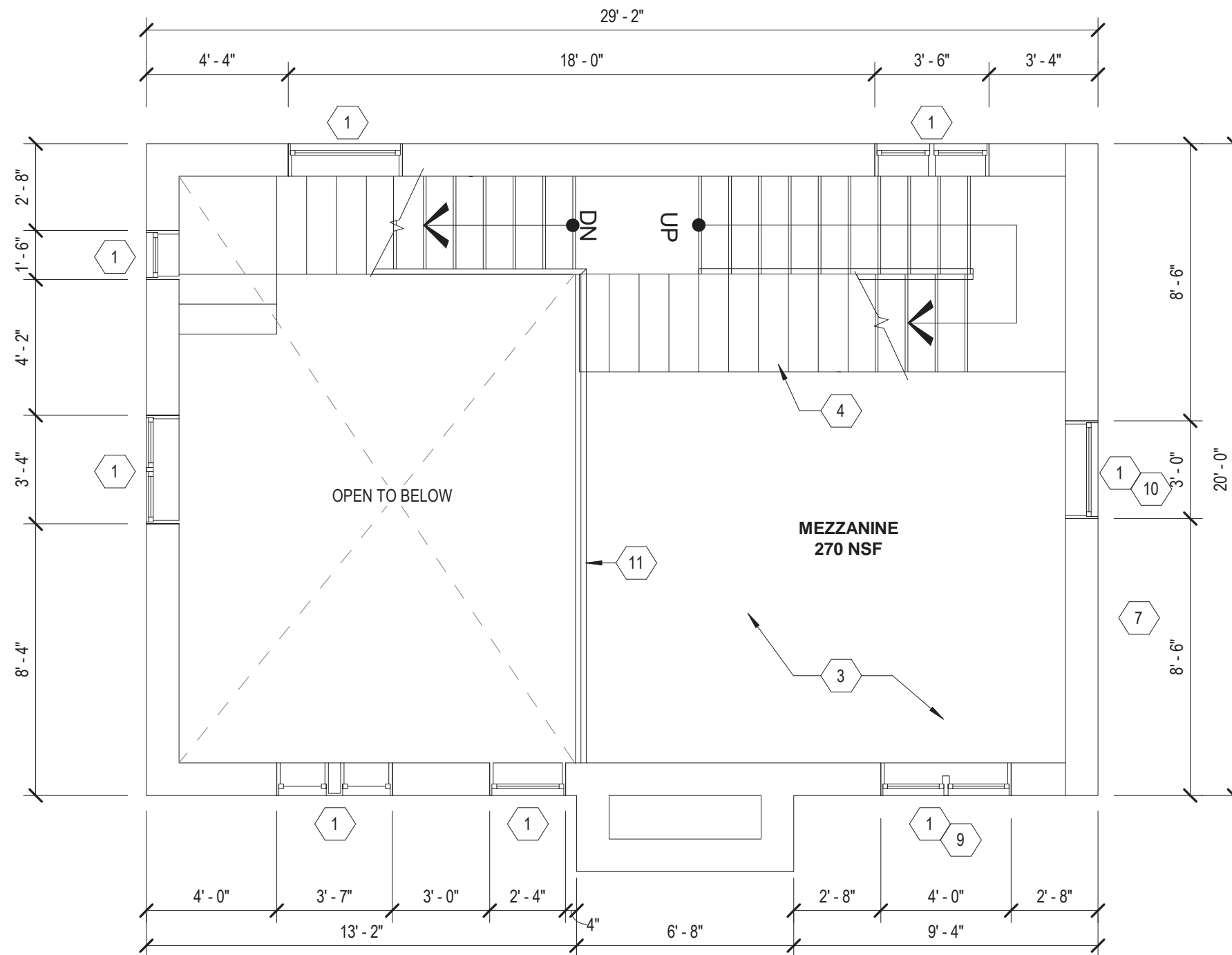


# POWER HOUSE RENOVATION

## NEW WORK PLANS

### PLAN KEYNOTES

- 1 NEW ALUM CLAD WOOD WINDOWS. BASIS OF DESIGN: PELLA ARCHITECTURAL SERIES TRADITIONAL. EXTERIOR COLOR: BLACK
- 3 NEW FLOOR FINISH ON WOOD SUBFLOOR AND FRAMING. REPAIR, REPLACE, AND INFILL EXISTING FLOOR FRAMING AS REQUIRED.
- 4 NEW STAIR
- 7 RECONSTRUCT MASONRY WALL WITH SALVAGED BRICK
- 9 RAISE EXISTING SILL HEIGHT AS REQUIRED. INFILL OPENING BELOW NEW SILL WITH SALVAGED BRICK
- 10 NEW WINDOW IN EXISTING FRAMED OPENING (CURRENTLY BRICKED -IN)
- 11 NEW RAILING

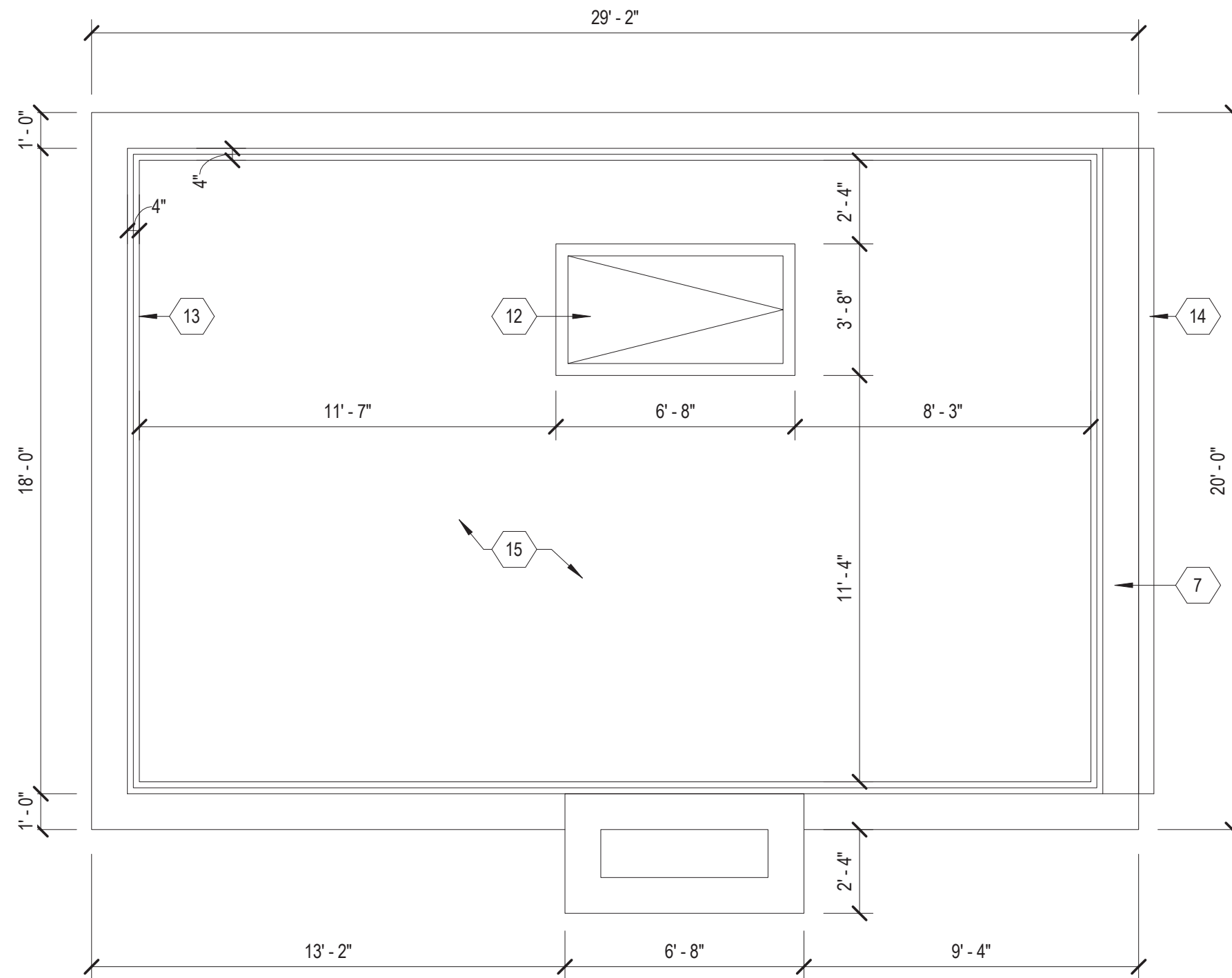


**MEZZANINE FLOOR PLAN**   
SCALE: 1/4" = 1'-0"



# POWER HOUSE RENOVATION

## NEW WORK PLANS



### PLAN KEYNOTES

- 7 RECONSTRUCT MASONRY WALL WITH SALVAGED BRICK
- 12 GLASS ROOF ACCESS HATCH
- 13 PAINTED ALUM RAIL. SEE CUTSHEET FOR SELECTION. COLOR: BLACK
- 14 CONTINUOUS ALUM GUTTER AND DOWNSPOUT
- 15 TREX DECKING ON WOOD SLEEPERS ON EPDM ROOFING MEMBRANE AND 5/8" COVERBOARD OVER NEW WOOD ROOF JOISTS. SEE CUTSHEETS FOR SELECTIONS.

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



# POWER HOUSE RENOVATION

## EXTERIOR WORK

### EXTERIOR KEYNOTES

- 1 REPAIR/TUCKPOINT BRICK AS REQUIRED. MORTAR MIX TO MEET HDC STANDARDS
- 2 CLEAN BRICK TO REMOVE SOOT STAINS AND GRAFFITI. CONTRACTOR TO TEST LEAST INVASIVE METHODS
- 3 NEW ALUM. CLAD WOOD WINDOWS. REFER TO PLANS FOR BASIS OF DESIGN
- 4 NEW WOOD ENTRY DOOR. REFER TO CUT-SHEET FOR SELECTIONS
- 5 RECONSTRUCT DAMAGED BRICK WALL WITH SALVAGED BRICK
- 6 ADD NEW WINDOW OPENING WHERE EVIDENCE OF BRICKED-IN WINDOW OPENING EXISTS
- 7 RECONSTRUCT WOOD PORCH RAIL DETAIL IN-KIND
- 8 REPAIR/REPLACE WOOD HEADER DETAIL AS REQUIRED.
- 9 BRICK-IN OPENING AS REQUIRED TO RAISE SILL. USE SALVAGED BRICK



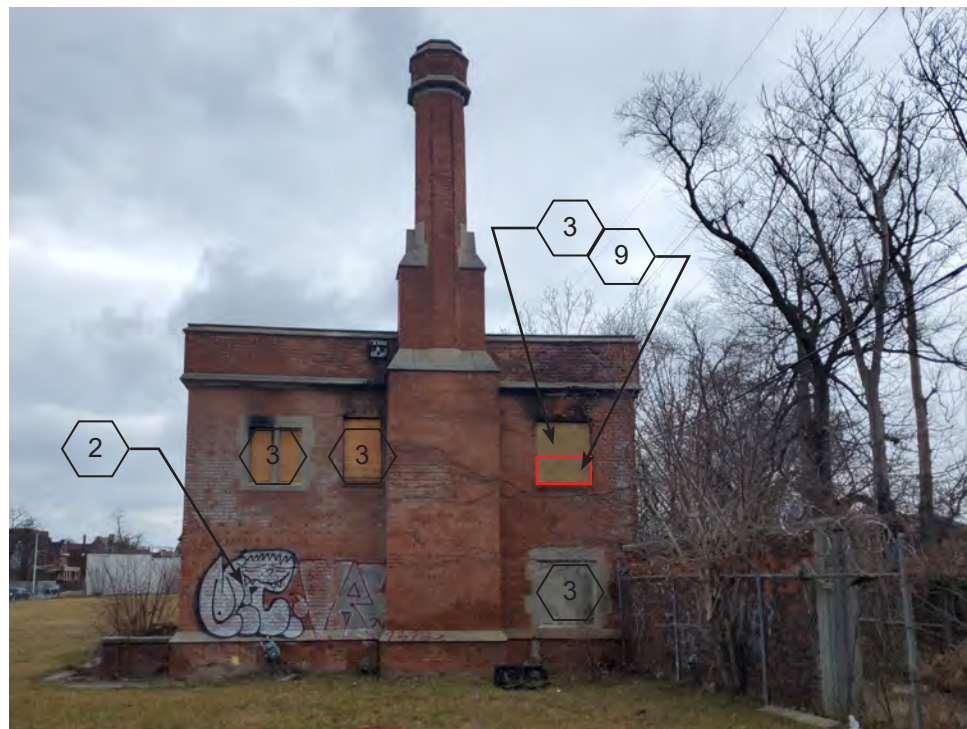
EAST ELEVATION



FRONT PORCH DETAIL



WEST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION

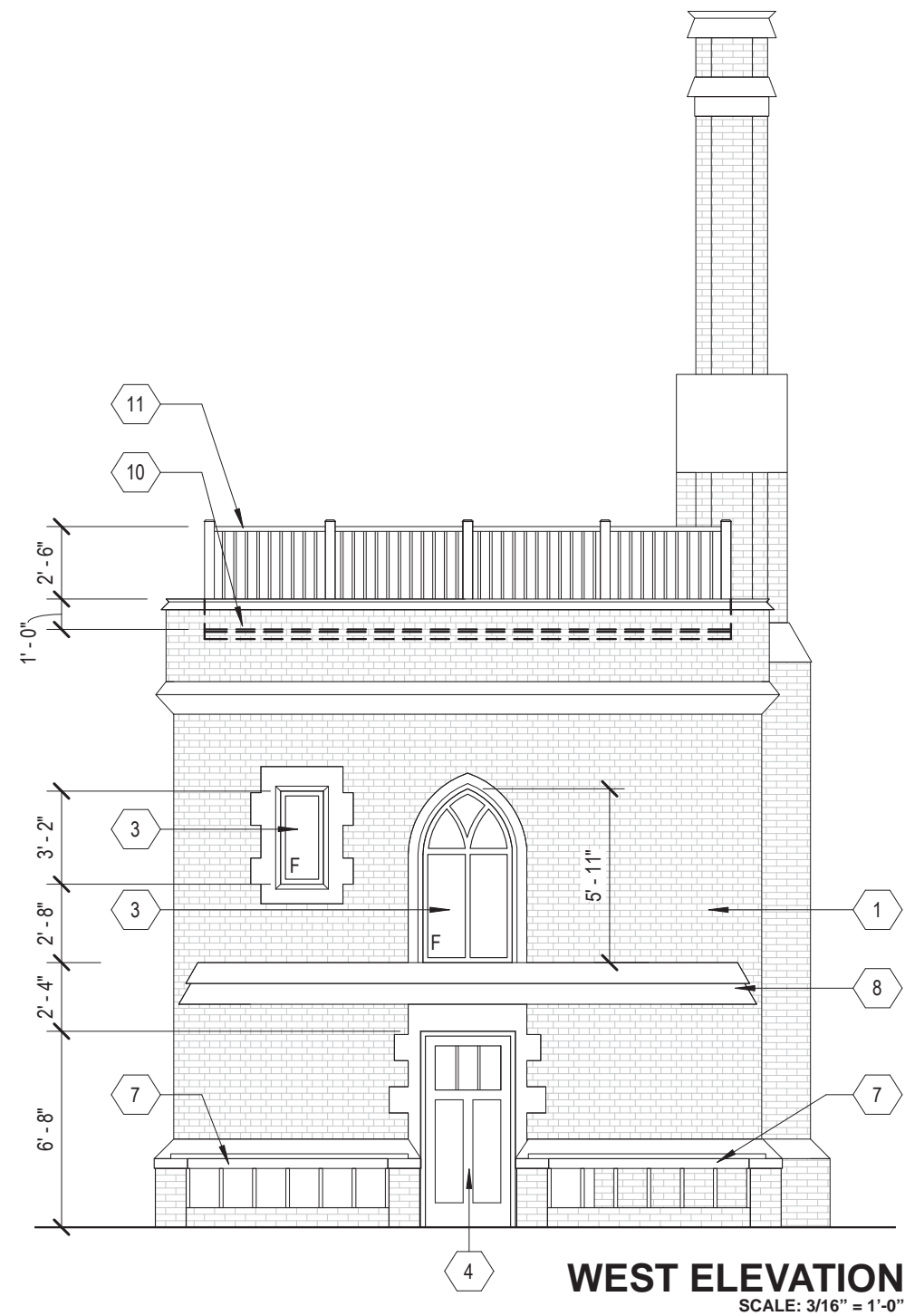
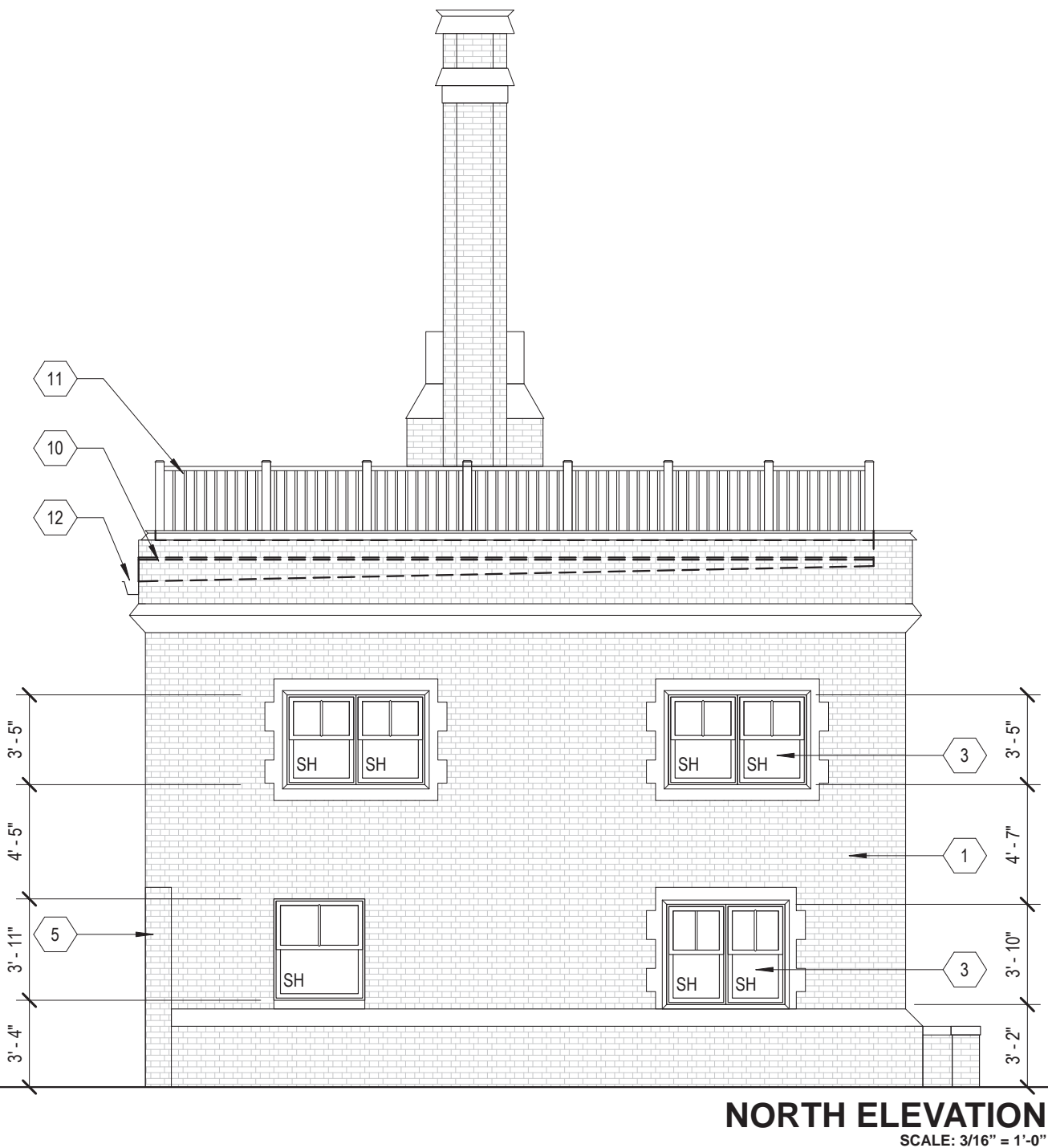


# POWER HOUSE RENOVATION

## EXTERIOR WORK

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- 9 BRICK-IN OPENING AS REQUIRED TO RAISE SILL. USE SALVAGED BRICK
- 10 TREX DECKING ON WOOD SLEEPERS ON EPDM ROOFING MEMBRANE AND 5/8" COVER-BOARD OVER NEW WOOD ROOF JOISTS. SEE CUTSHEETS FOR SELECTIONS.
- 11 PAINTED ALUM RAIL. SEE CUTSHEET FOR SELECTION. COLOR: BLACK
- 12 CONTINUOUS ALUM GUTTER AND DOWN-SPOUT



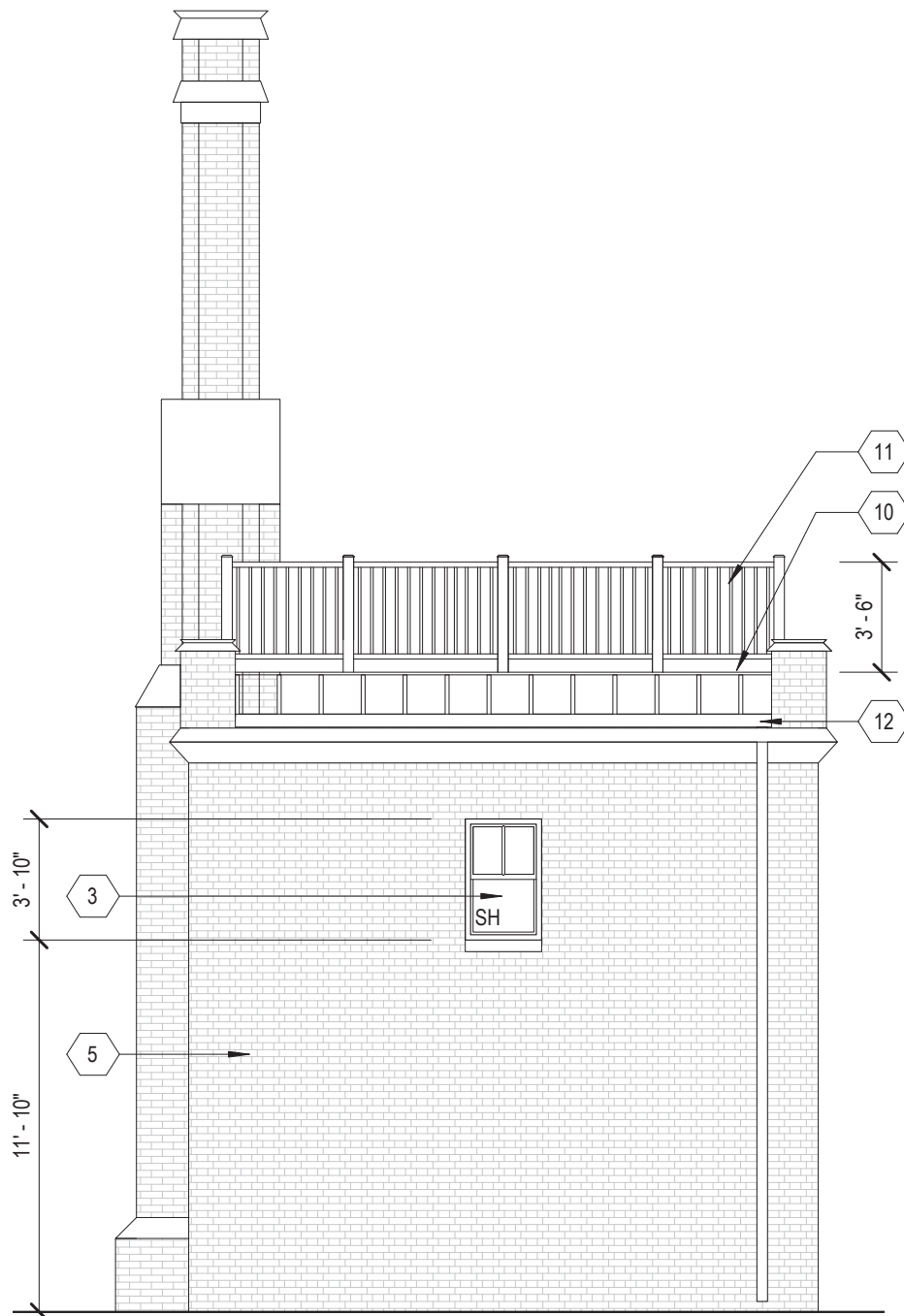


# POWER HOUSE RENOVATION

## EXTERIOR WORK

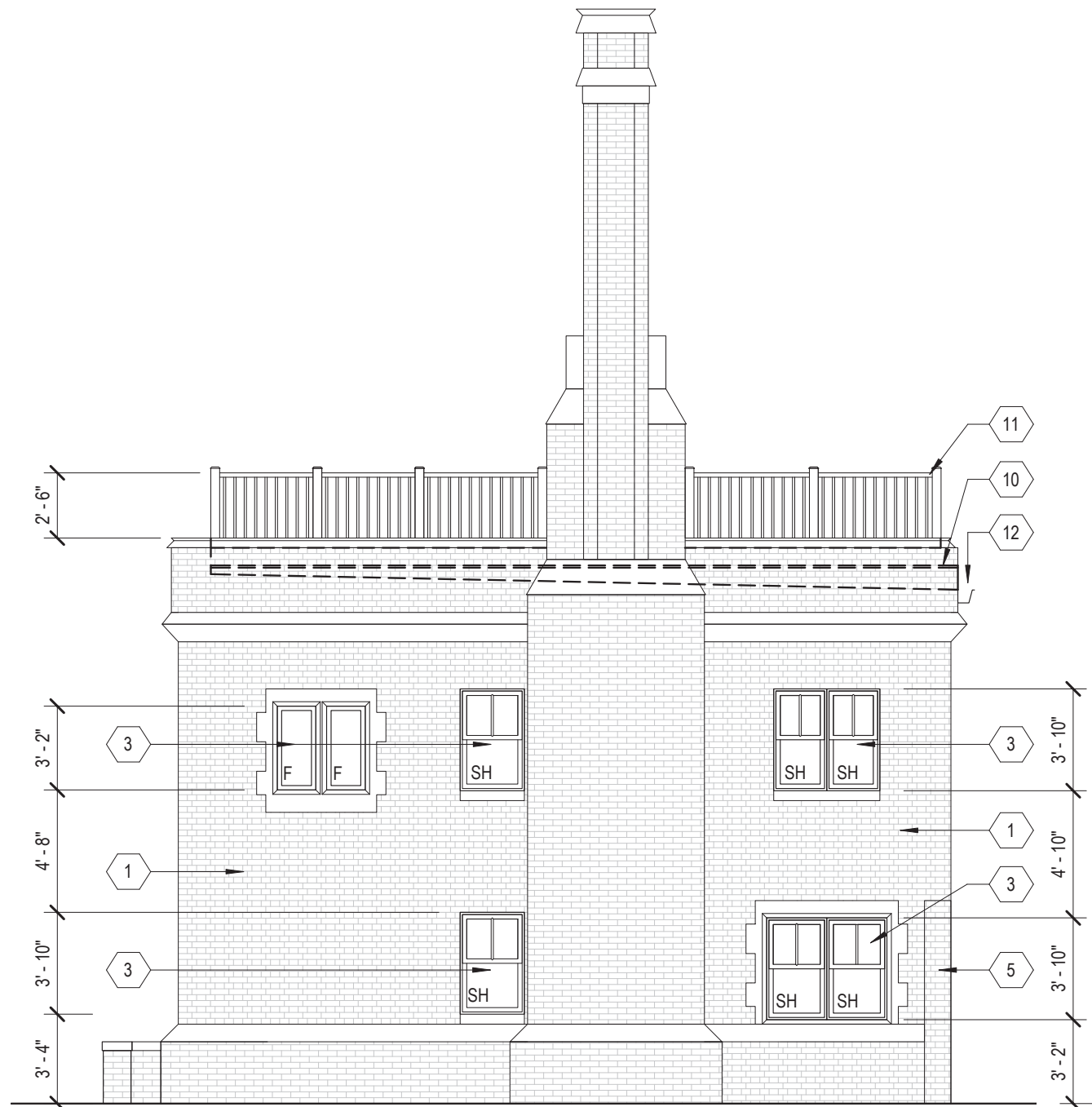
### EXTERIOR KEYNOTES

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- 11 PAINTED ALUM RAIL. SEE CUTSHEET FOR SELECTION. COLOR: BLACK
- 12 CONTINUOUS ALUM GUTTER AND DOWN-SPOUT



**EAST ELEVATION**

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



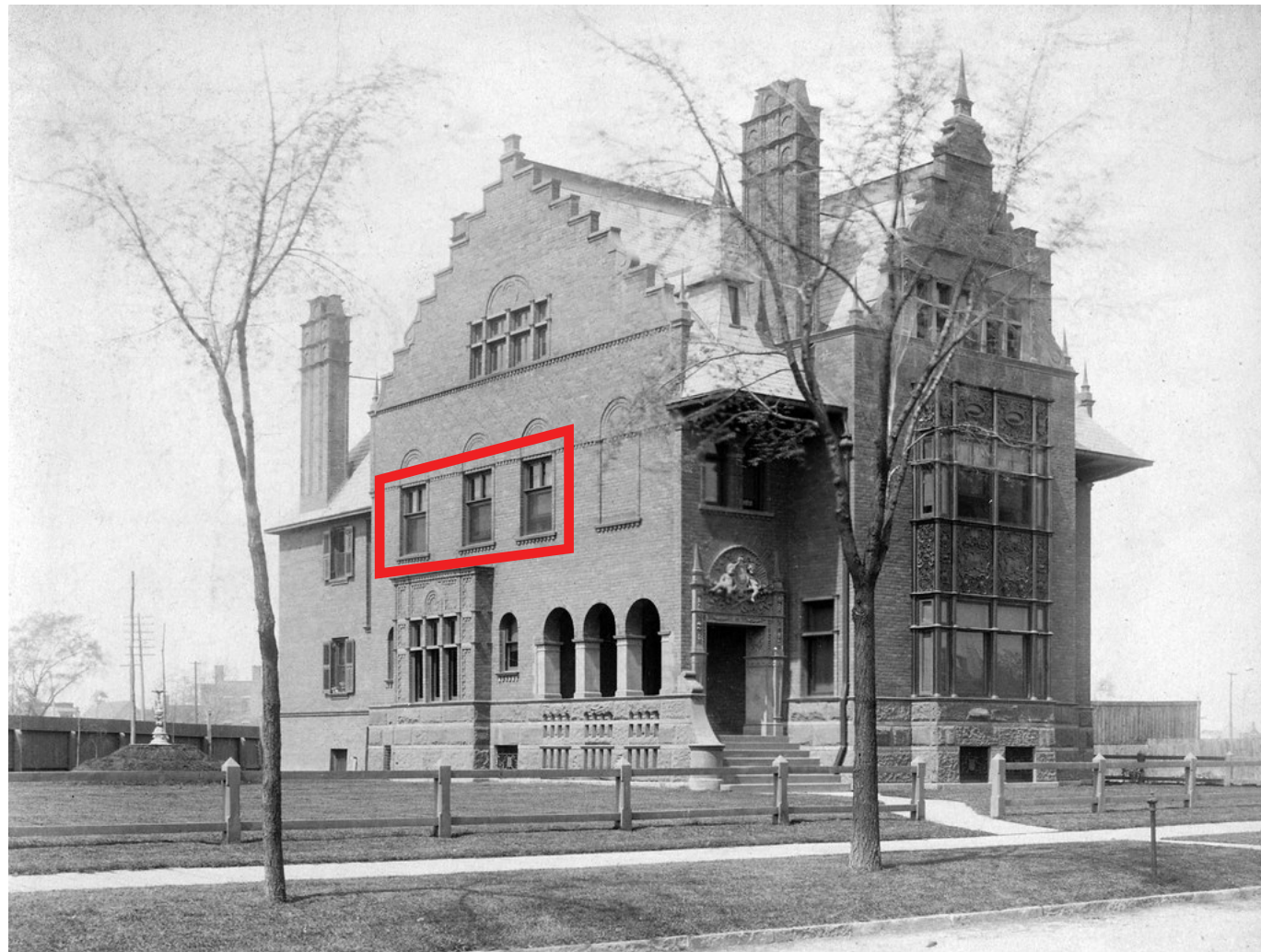
**SOUTH ELEVATION**

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



# POWER HOUSE RENOVATION

## WINDOW PRECEDENTS



SCRIPPS MANSION  
MAIN HOUSE



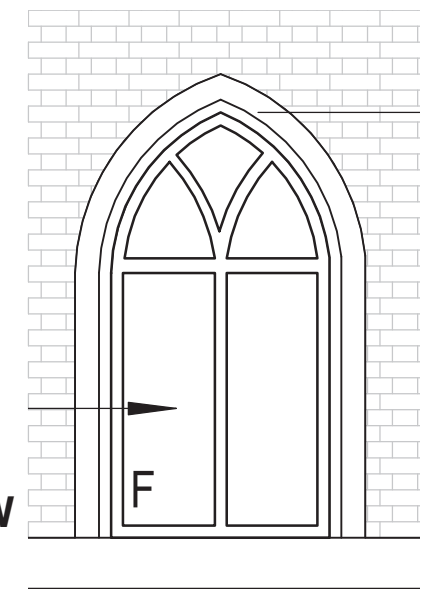
2/1 WINDOWS



POWER HOUSE  
PRE-FIRE



ORNATE ARCHED DOOR



PROPOSED WINDOW





January 22, 2021

Mr. Tim Flintoff  
Principal  
4545 Architecture and Design, PLLC.  
4545 Commonwealth St., Detroit, MI 48208

RE: 3700 Trumbull Powerhouse: Structural Condition Evaluation of East Elevation and  
Masonry Wing Walls

Project No. 21-1004  
The Towns at Scripps Park

Dear Mr. Flintoff,

In accordance with your request, we have completed our evaluation process of the above captioned project on January 22, 2021.

An evaluation of the east elevation masonry wall and the masonry wing walls was performed on 01/19/2021. The walls were evaluated for deterioration, and compliance with the minimum loading criteria identified in ASCE 7-10 as referenced by the 2015 Michigan Building Code.

**East Elevation Masonry Wall:**

The east elevation masonry wall is shown in Photograph 1. The wall is constructed of brick masonry units set in hydraulic sand-lime mortar. Both the masonry units and the mortar joints are in an advanced state of deterioration. A significant number of masonry units have begun to spall and the mortar joints have softened such that a masonry rubble pile has formed at the base of the wall. Further, the wall has been exposed to a fire at the second level, and numerous unabated freeze thaw cycles as a result of water penetrating the damaged building envelope. Aside from those sources of deterioration, calcification and efflorescence was observed covering more than 50% of the surface area of the east elevation, indicating that the masonry material itself has reached its serviceable life and will no longer meet the durability requirements specified in ACI 318.

**East Masonry Wing Walls:**

The east masonry wing walls are shown in Photograph 2 and Photograph 3. The walls are constructed of brick masonry units set in hydraulic sand-lime mortar and are approximately 11ft tall by 12in thick. The masonry units and mortar joints are experiencing similar spall, softening, calcification, and efflorescence as the east elevation masonry wall identified in Photograph 1. The level of deterioration is not as advanced as the east elevation masonry wall, however, it has progressed to the point where the masonry materials will no longer meet the durability requirements specified in ACI 318.

Further, the change in use of the building from a powerhouse to a community clubhouse changes the risk category of the building according to Section 1604.5 of the Michigan Building Code. This change in risk category mandates that the building and its structural





Alexander Lamb Ph.D., P.E.

Mr. Tim Flintoff  
Re: 3700 Trumbull Powerhouse: Structural Condition Evaluation

elements be evaluated for the current code required minimum design loads associated with the risk category related to the new use. The resulting wind speed of 115mph applied to the approximately 11ft tall freestanding masonry wall structure results in the existing east masonry wing walls to be overstressed and in an otherwise unsafe condition structurally.

Accordingly, it is our recommendation that the east elevation masonry wall be removed and replaced, and the east masonry wing walls be demolished.

If you have any questions regarding the contents of this report, please do not hesitate to contact our office.

Sincerely,

Alexander Lamb, Ph.D., P.E.  
Registered Professional Engineer (Michigan)  
248-561-2035  
[alexander@mjlamb.net](mailto:alexander@mjlamb.net)

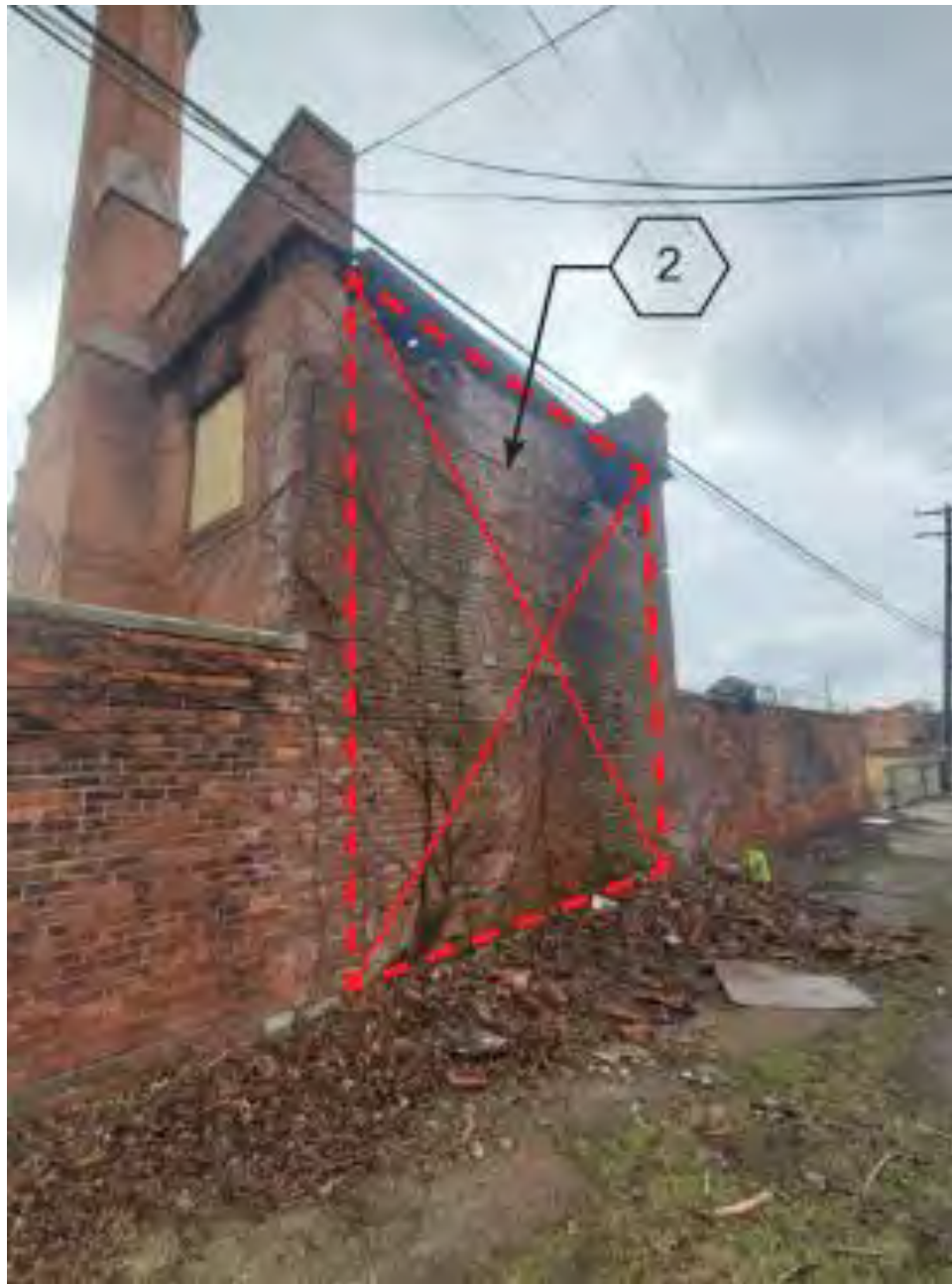






Alexander Lamb Ph.D., P.E.

Mr. Tim Flintoff  
Re: 3700 Trumbull Powerhouse: Structural Condition Evaluation



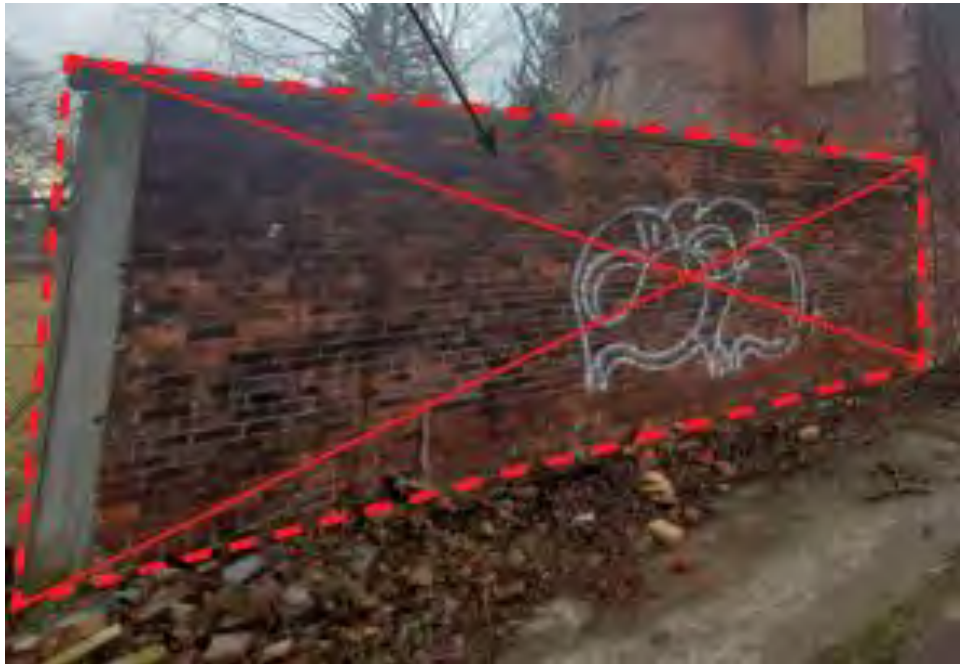
Photograph 1: East Elevation Masonry Wall





Alexander Lamb Ph.D., P.E.

Mr. Tim Flintoff  
Re: 3700 Trumbull Powerhouse: Structural Condition Evaluation



Photograph 2: East Masonry Wing Wall – South



Photograph 3: East Masonry Wing Wall - North

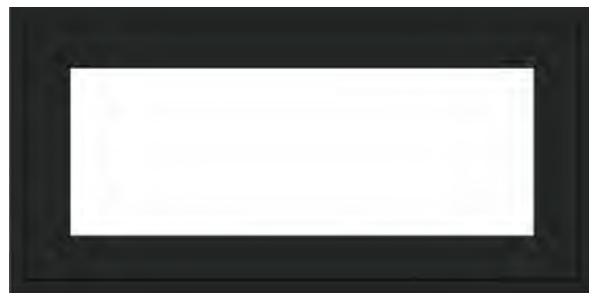




## 100 SERIES AWNING WINDOW



Interior



Exterior

### Summary

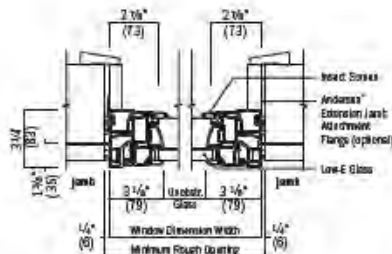
<b>Product ID#</b>	100AS3016
<b>Unit Width</b>	35 1/2"
<b>Unit Height</b>	17 1/2"
<b>Interior Color</b>	White
<b>Glass</b>	Low-E Glass
<b>Hardware</b>	Folding Lock and Keeper, White
<b>Grille Pattern</b>	None
<b>Exterior Color</b>	Black



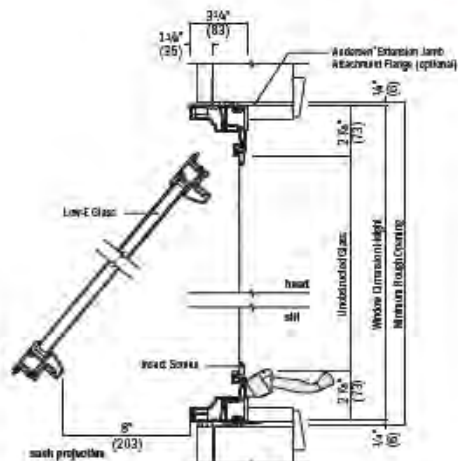


Awning Window Details - New Construction  
Scale 1 1/2" (38) = 1'-0" (305) - 1:8

1 1/2" (38) Awning window

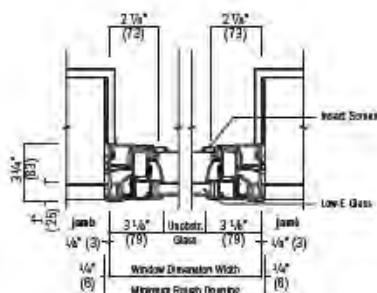


Horizontal Section

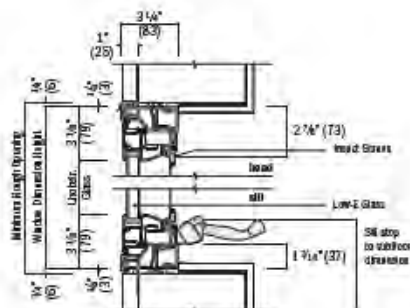


Vertical Section

1 1/2" (38) Awning window with storm sash

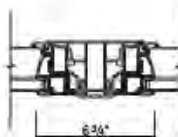


Horizontal Section  
storm sash

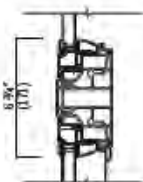


Vertical Section  
storm sash

Integral



Horizontal Section  
Awning Window



Vertical Section  
Picture over Awning

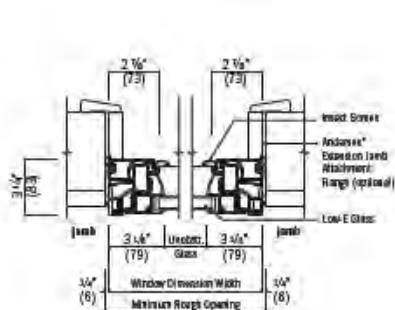
- \* Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- \* Light-colored areas are paint indicators with window. Dark-colored areas are additional Andersen parts required to complete window assembly as shown.
- \* Rough openings may need to be increased to allow for use of building wraps, flashing, sill paning, brackets, fasteners or other items.
- \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).
- \* Dimensions in parentheses are in millimeters.



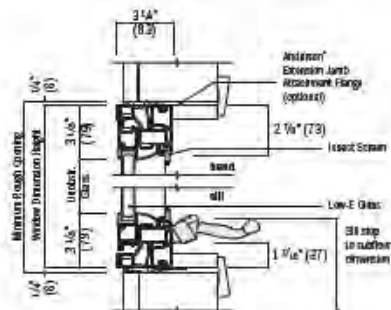
Awning Window Details - Replacement

Scale 1 1/2" (38) = 1'-0" (305) - 1:8

Ins Blocks

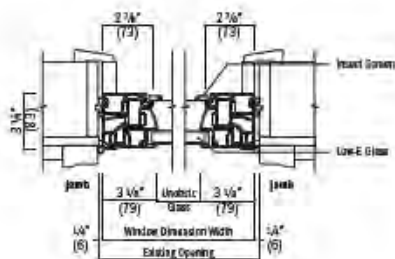


Horizontal Section  
raising framed opening

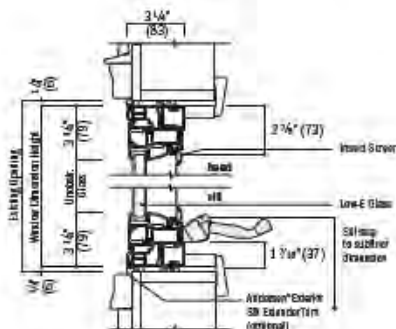


Vertical Section  
raising framed opening

Sill

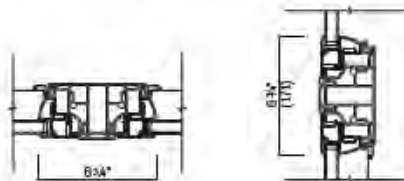


Horizontal Section  
existing window opening



Vertical Section  
existing window opening

Ins Blocks



Horizontal Section  
Picture over Awning

Vertical Section  
Picture over Awning

\* Sill cap is required to complete window installation as shown, but may not be included with this window. Use of sill cap is recommended for proper installation.  
 \* Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.  
 \* Rough opening may need to be increased to allow for use of building wraps, flashing, sill gassing, brackets, fasteners or other items.  
 \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).  
 \* Dimensions in parentheses are in millimeters.



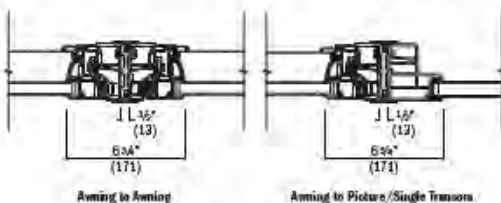
## Vertical (ribbon) Fiberglass Joining Details – Non-Reinforced

Scale 1½" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ½" (13) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



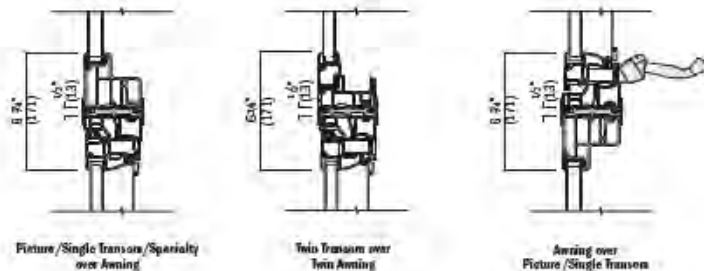
## Horizontal (stack) Fiberglass Joining Details – Non-Reinforced

Scale 1½" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ½" (13) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



\* Rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, tracklets, fasteners or other items.  
 \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).  
 \* Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.  
 \* Dimensions in parentheses are in millimeters.



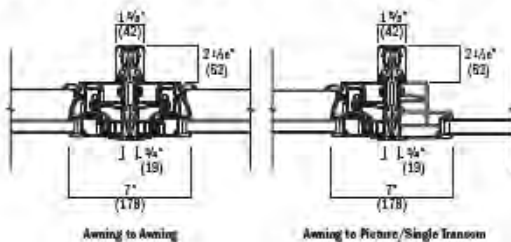
## Vertical (ribbon) Fiberglass Joining Details – Reinforced

Scale 1½" = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ¾" (19) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



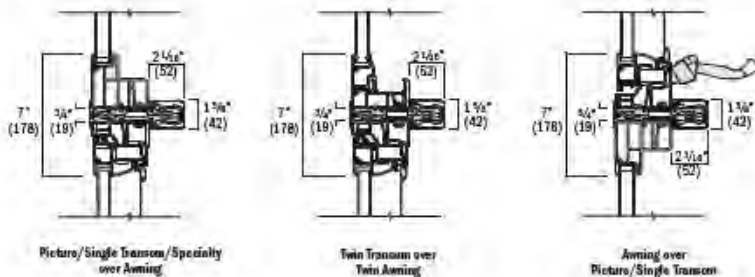
## Horizontal (stack) Fiberglass Joining Details – Reinforced

Scale 1½" = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ¾" (19) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



\* Rough openings may need to be increased to allow for use of building wrap, flashing, sill panning, brackets, fasteners or other items.  
 \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).  
 \* Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.  
 \* Dimensions in parentheses are in millimeters.

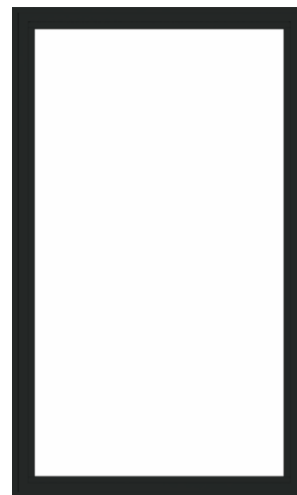




## 100 SERIES CASEMENT WINDOW



Interior



Exterior

### Summary

<b>Product ID#</b>	100CS3050
<b>Unit Width</b>	35 1/2"
<b>Unit Height</b>	59 1/2"
<b>Interior Color</b>	White
<b>Glass</b>	Low-E Glass
<b>Hardware</b>	Folding Lock and Keeper, White
<b>Grille Pattern</b>	None
<b>Exterior Color</b>	Black

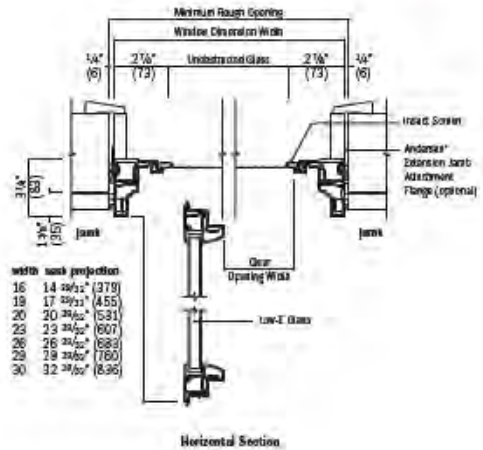
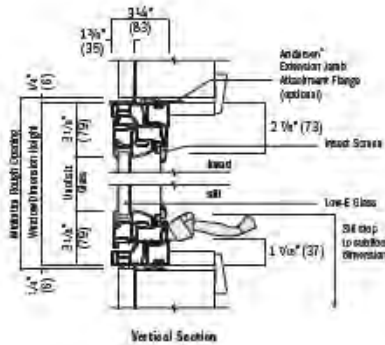




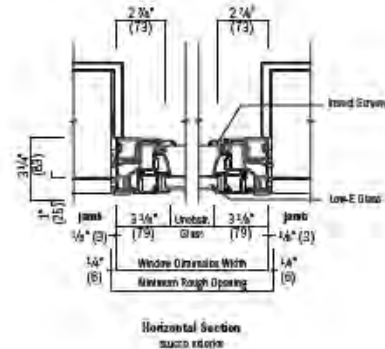
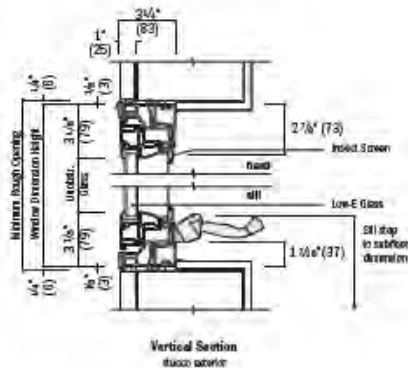
## Casement Window Details - New Construction

Scale 1 1/2" (38) = 1'-0" (305) = 1:8

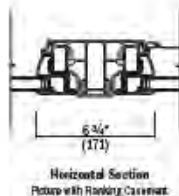
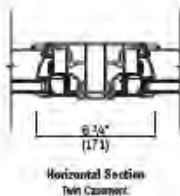
1 1/2" (38) Flange, outside



1 1/2" (38) Flange on back with attached sill



integrals



\*Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.

\*Light-colored trim or paint includes with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.

\*Rough openings may need to be increased to allow for use of building wraps, flashing, sill painting, brackets, brackets or other items.

\*Details are for illustration only and are not intended to represent product installation methods or practices. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).

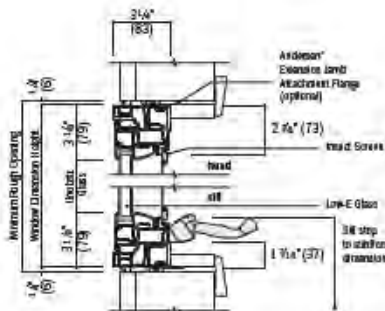
\*Dimensions in parentheses are in millimeters.



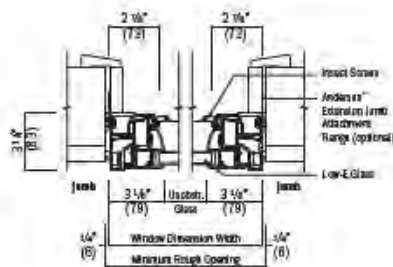
## Casement Window Details - Replacement

Scale 1 1/2" (38) = 1'-0" (305) - 1:8

no sillings

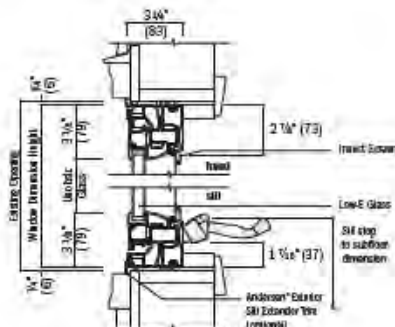


Vertical Section  
with framed opening

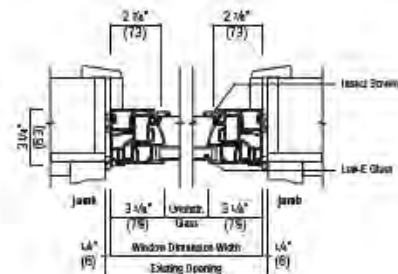


Horizontal Section  
with framed opening

with sillings

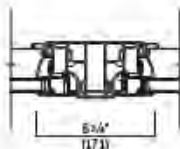


Vertical Section  
with window opening

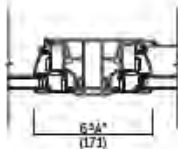


Horizontal Section  
with window opening

Sillings



Horizontal Section  
Twin Casement



Horizontal Section  
Picture with Flanking Casement

\* Dry cup is required to complete window installation as shown, but may not be included with the window. Use of this cup is recommended for proper installation.

\* Light-colored glass and parts included with window. Darker color glass is additional Andersen® parts required to complete window assembly as shown.

\* Rough opening may need to be increased to allow for use of bedding wraps, flashing, sill panelling, insulshims, felts or other items.

\* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guide at [andersenwindows.com](http://andersenwindows.com).

\* Dimensions in parentheses are in millimeters.



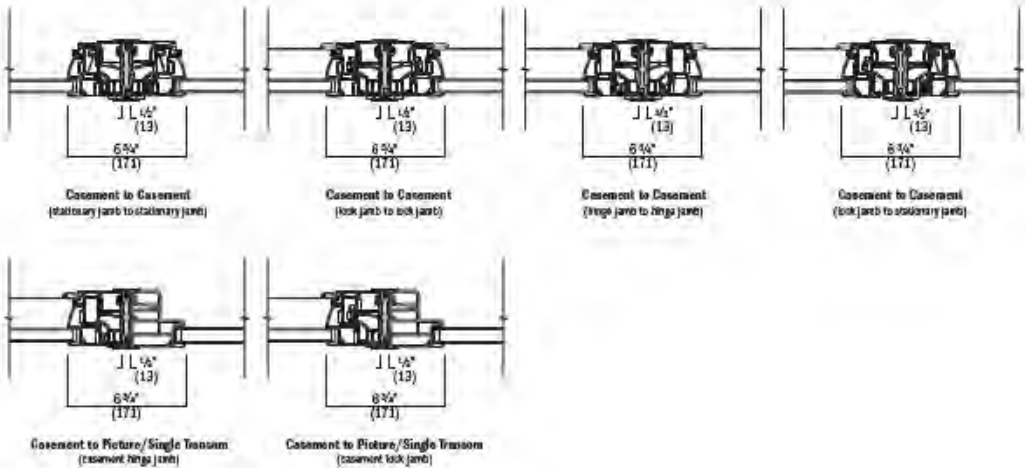
**Vertical (ribbon) Fiberglass Joining Details – Non-Reinforced**

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus 1/2" (13) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.



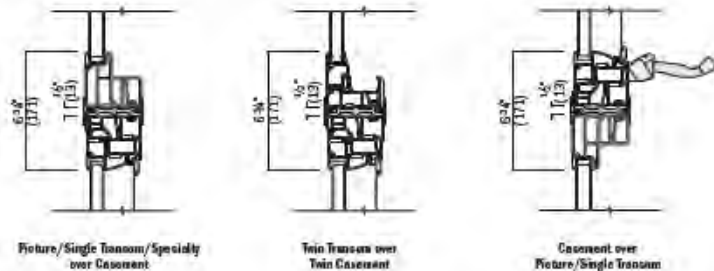
**Horizontal (stack) Fiberglass Joining Details – Non-Reinforced**

Scale 1 1/2" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus 1/2" (13) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.



\* Rough openings may need to be increased to allow for size of building wraps, flashing, sill paning, brackets, fasteners or other items.  
 \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindow.com](http://andersenwindow.com).  
 \* Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.  
 \* Dimensions in parentheses are in millimeters.



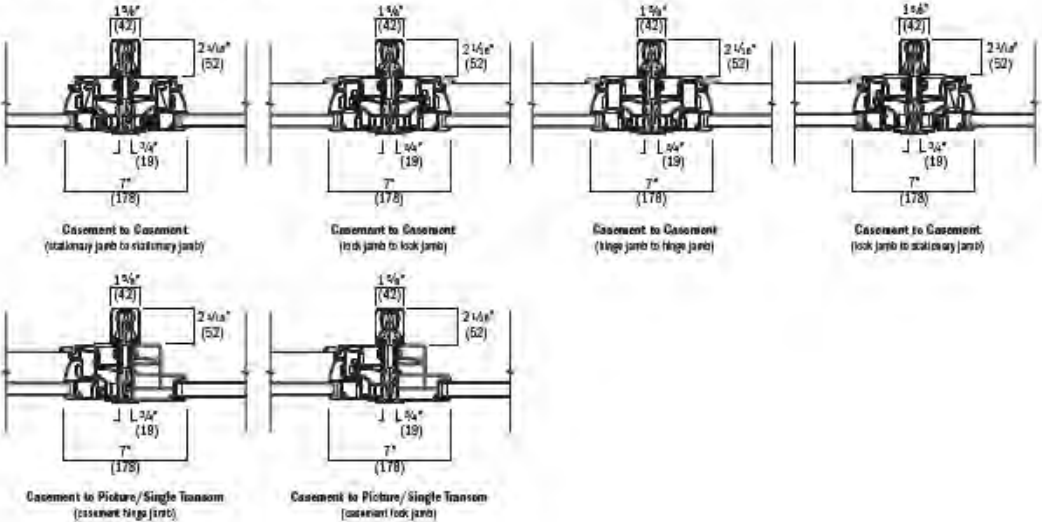
## Vertical (ribbon) Fiberglass Joining Details – Reinforced

Scale 1 1/2" (38) – 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus 3/4" (19) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.



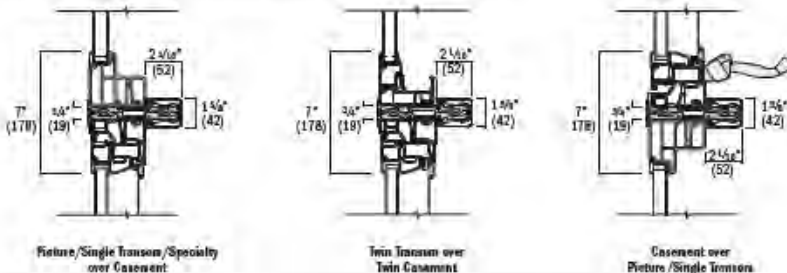
## Horizontal (stack) Fiberglass Joining Details – Reinforced

Scale 1 1/2" (38) – 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus 3/4" (19) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.



\* Rough openings may need to be increased to allow for use of blocking strips, flashing, sill panning, brackets, fasteners or other items.  
 \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).  
 \* Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.  
 \* Dimensions in parentheses are in millimeters.





## 100 SERIES GLIDING PATIO DOOR



Interior



Exterior

### Summary

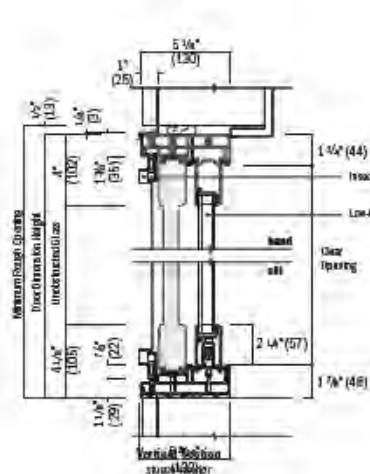
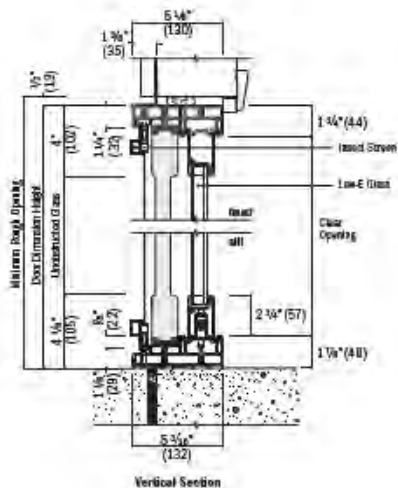
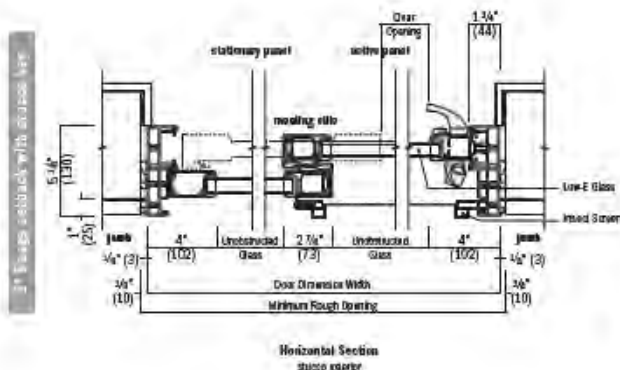
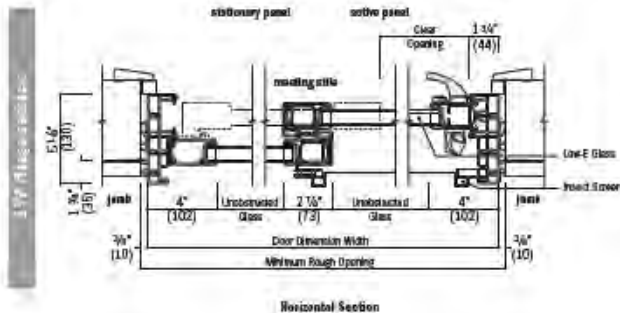
<b>Product ID#</b>	100GD2P5068
<b>Unit Width</b>	59 1/4"
<b>Unit Height</b>	79 1/2"
<b>Interior Color</b>	White
<b>Glass</b>	Low-E4® Glass
<b>Hardware</b>	Tulsa, White
<b>Grille Pattern</b>	None
<b>Exterior Door Color</b>	Black





## Gliding Patio Door Details

Scale 1 1/2" (38) = 1'-0" (305) = 1:8



\*Drip cap is required to complete door installation as shown, but may not be included with the door. Use of drip cap is recommended for proper installation.

\*Rough openings may need to be increased to allow for the use of building wraps, flashing, sill paning, brackets, fasteners or other items.

\*Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guidelines at [andersenwindows.com](http://andersenwindows.com).

\*Dimensions in parentheses are in millimeters.



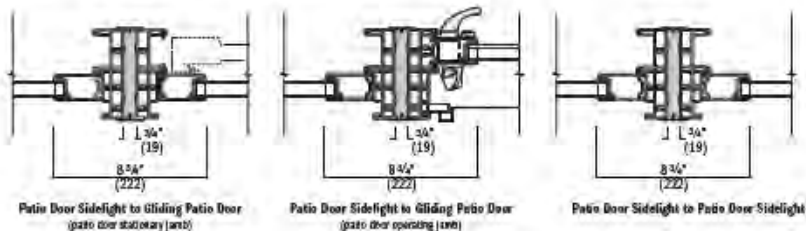
## Vertical (ribbon) Joining Details

Scale 1 1/2" (38) = 1'-0" (305) = 1:8

**Overall Door/Sidelight or Sidelight-Sidelight Dimension Width** Sum of individual door-sidelight or sidelight-sidelight widths plus 3/4" (19).

**Overall Minimum Rough Opening Width** Overall dimension width plus 3/4" (19).

The addition of joining materials will affect the overall rough opening dimension.



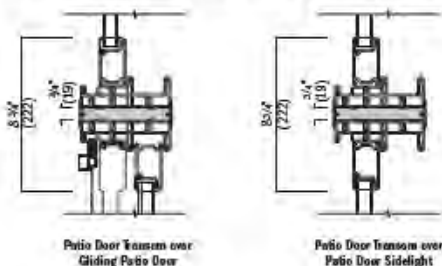
## Horizontal (stack) Joining Details

Scale 1 1/2" (38) = 1'-0" (305) = 1:8

**Overall Transom/Door or Transom/Sidelight Dimension Height** Sum of individual transom/door or transom/sidelight heights plus 3/4" (19).

**Overall Minimum Rough Opening Height** Overall dimension height plus 1/2" (13).

The addition of joining materials will affect the overall rough opening dimension.



\* Rough openings may need to be increased to allow for use of bedding wraps, flashing, sill panning, backstops, fasteners or other items.

\*\* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).

\*\*\* Structural performance of any combination is only as high as the lowest structural performance of any individual window or job in the combination.

† Contact your Andersen supplier for information on meeting wind load requirements for patio door/jamb combinations.

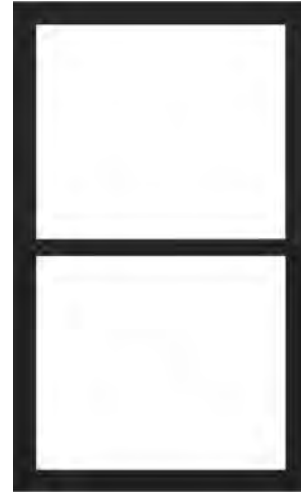




## 100 SERIES SINGLE-HUNG WINDOW



Interior



Exterior

### Summary

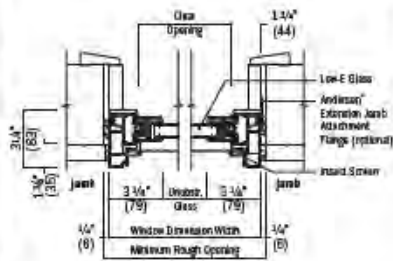
<b>Product ID#</b>	100SHS3050
<b>Unit Width</b>	35 1/2"
<b>Unit Height</b>	59 1/2"
<b>Interior Color</b>	White
<b>Glass</b>	Low-E Glass
<b>Hardware</b>	Standard Lock and Keeper, White
<b>Grille Pattern</b>	None
<b>Exterior Color</b>	Black



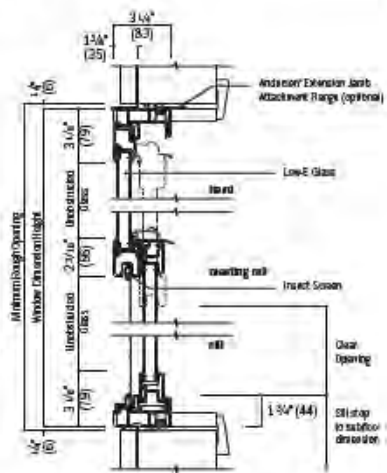


**Single-Hung Window Details - New Construction**  
 Scale 1 3/4" (38) - 1'-0" (305) - 1:8

1" Recessed Sill with exterior

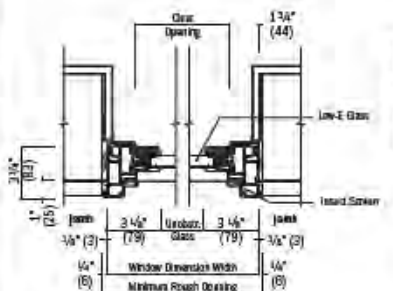


Horizontal Section

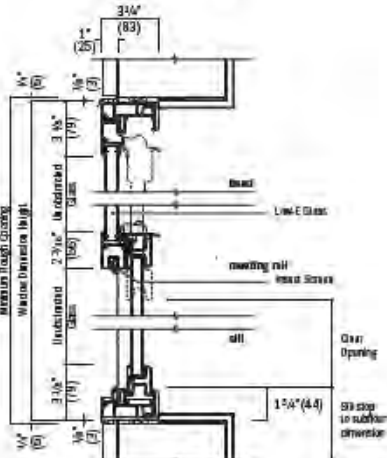


Vertical Section

1" Recessed Sill with exterior kerf

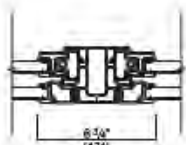


Horizontal Section  
 exterior kerf

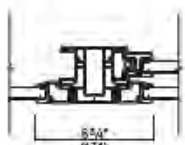


Vertical Section  
 exterior kerf

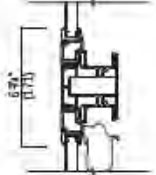
1 1/2\"/>



Horizontal Section  
 Twin or Triple Single-Hung



Horizontal Section  
 Fixed with Flanking Single-Hung



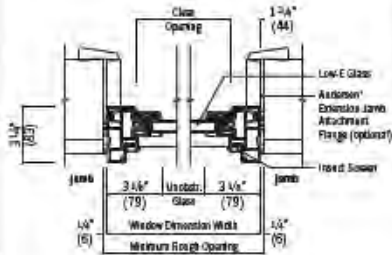
Vertical Section  
 Transom over Single-Hung

- \* Drip cap is required to complete window installation as shown, but may not be installed with the window. Use of drip cap is recommended for proper installation.
- \* Light-colored areas are parts matched with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- \* Rough openings may need to be increased to allow for ease of building wrap, flashing, sill pan, brackets, fasteners or other items.
- \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).
- \* Dimensions in parentheses are in millimeters.

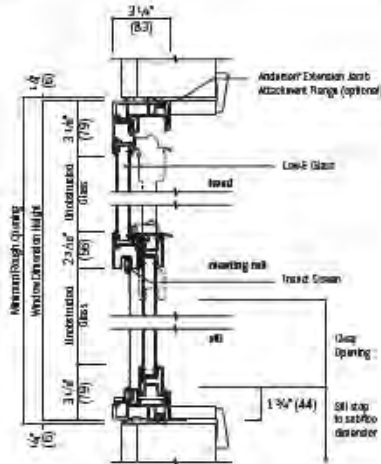


## Single-Hung Window Details - Replacement

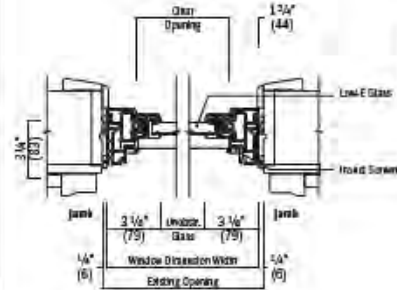
Scale 1 1/2" (38) - 1'-0" (305) - 1:8



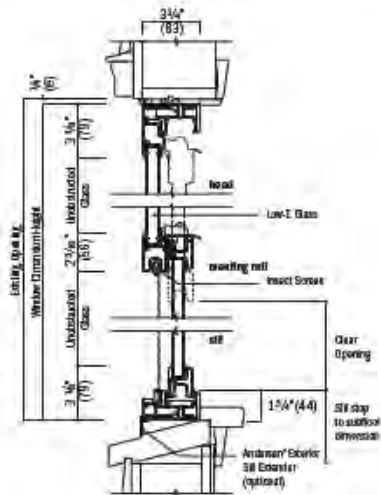
**Horizontal Section**  
existing transom opening



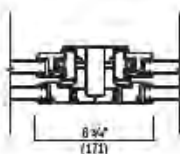
**Vertical Section**  
existing transom opening



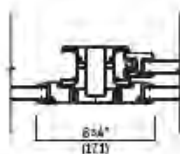
**Horizontal Section**  
existing window opening



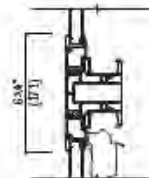
**Vertical Section**  
existing window opening



**Horizontal Section**  
Two or Triple Single-Hung



**Horizontal Section**  
Pane with Flanking Single-Hung



**Vertical Section**  
Pane over Single-Hung

- \* Drip cap is required to complete window installation as shown, but may not be included with the window. Use of drip cap is recommended for proper installation.
- \* Light-colored areas are parts included with window. Dark-colored areas are additional Andersen® parts required to complete window assembly as shown.
- \* Rough openings may need to be increased to allow for use of building wraps, flashing, sill panning, brackets, fasteners or other items.
- \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindow.com](http://andersenwindow.com).
- \* Dimensions in parentheses are in millimeters.



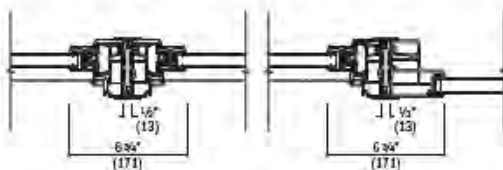
## Vertical (ribbon) Fiberglass Joining Details – Non-Reinforced

Scale 1½" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ½" (13) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



Single-Hung to Single-Hung

Single-Hung to Picture/Single Transom

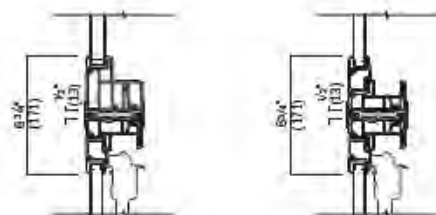
## Horizontal (stack) Fiberglass Joining Details – Non-Reinforced

Scale 1½" (38) = 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ½" (13) per join.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



Picture/Single Transom/Specialty  
over Single-Hung

Twin Transom over  
Twin Single-Hung

\* Rough opening may need to be increased to allow for use of bolting straps, flashing, sill paning, brackets, fasteners or other items.  
 \* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).  
 \* Structural performance of any combination is only as high as the lowest structural performance of any individual window or join in the combination.  
 \* Dimensions in parentheses are in millimeters.



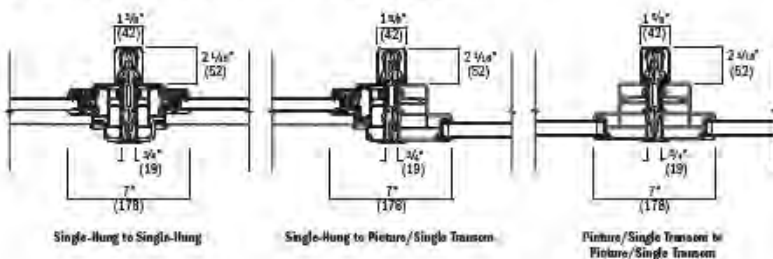
## Vertical (ribbon) Fiberglass Joining Details – Reinforced

Scale 1½" (38) – 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ¾" (19) per joint.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



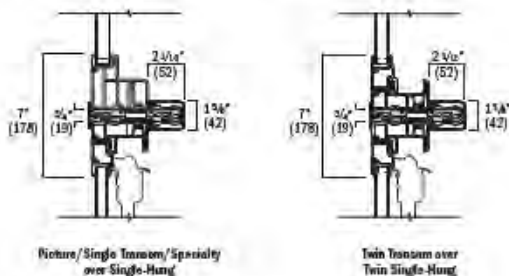
## Horizontal (stack) Fiberglass Joining Details – Reinforced

Scale 1½" (38) – 1'-0" (305) – 1:8

**Overall Window Dimension Width** Sum of individual window widths plus ¾" (19) per joint.

**Overall Minimum Rough Opening Width** Overall window dimension width plus ¾" (19).

The addition of joining materials will affect the overall rough opening dimension.



\* Rough openings may need to be increased to allow for use of building wraps, flashing, sill paning, brackets, fasteners or other fixes.

\* Details are for illustration only and are not intended to represent product installation methods or materials. Refer to product installation guides at [andersenwindows.com](http://andersenwindows.com).

\* Structural performance of any combination is only as high as the lowest structural performance of any individual window or joint in the combination.

\* Dimensions in parentheses are in millimeters.



SHARE



## Smooth-Star®



Pulse™ Echo 4-Lite Centered | Style No. S4CL (shown in flat lite frame)

★★★★★ 3.9 (14) [Write a review](#)

5 Available Sizes



VIEW ON HOME

### THERMA-TRU VIBRANT PAINT OPTIONS



Looking for more information on finishing options? Check out our [finishing page](#) and learn how you can use finish to make your house a home with Therma-Tru.

### GLASS OPTIONS

Clear

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# 2020 Energy Star® Qualification Chart

## Classic-Craft® Opaque & Lip-Lite Fiberglass Doors

GARAGE ENTRY/MECH DOOR- TS210FD



Glass Designs																
<b>6'8" Height Doors</b>																
<b>Glass Size (Inches)</b>	<b>25x66</b>	<b>25x51*</b>	<b>25x42*</b>		<b>21x35</b>	<b>25x35</b>	<b>15x38</b>			<b>10x42</b>			<b>10x8</b>			
Decorative Glass	.26/.27	.26/.27	.23/.20		.21/.15	.21/.15	.21/.15			.18/.08						
Decorative Glass – Wrought Iron	.32/.26	.32/.26	.28/.20													
Privacy & Textured Glass	.26/.27	.26/.27	.23/.20													
Satin Etch						.21/.15										
Low-E Glass	.26/.15	.26/.15	.23/.11		.21/.09	.21/.09	.21/.09			.18/.05			.18/.05			
Opaque*													.14/.01	.18/.01		
Fire Opaque													.19/.00			
<b>8'0" Height Doors</b>																
<b>Glass Size (Inches)</b>		<b>25x66</b>	<b>21x51*</b>	<b>31x51*</b>						<b>8x42</b>	<b>10x42</b>					
Decorative Glass		.26/.27	.26/.27	.26/.27												
Decorative Glass – Wrought Iron		.32/.26	.32/.26	.32/.26												
Privacy & Textured Glass		.26/.27	.26/.27	.26/.27												
Low-E Glass		.26/.15	.26/.15	.26/.15						.18/.05	.18/.05					
Opaque													.14/.01			
Fire Opaque													.19/.00			

\*Also includes arch and round top lites or door slabs.

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
	Indicates Product is Energy Star Qualified in Northern Zone	
	Indicates Product is NOT Energy Star Qualified	

# 2020 Energy Star® Qualification Chart

## Classic-Craft® Fiberglass Doors Featuring EnLiten™ Flush-Glazed Designs



Glass Designs																				
<b>6'8" Height Doors</b>																				
<b>Glass Size (Inches)</b>	<b>26x66</b>							<b>26x18</b>							<b>8x66</b>	<b>8x52</b>	<b>8x45</b>	<b>8x35</b>	<b>8x41</b>	<b>8x18</b>
Decorative Glass								.22/.15						.22/.15	.19/.08	.19/.08	.19/.08	.19/.08	.19/.08	.19/.08
Privacy & Textured Glass	.30/.28							.22/.15						.22/.15						.19/.08
Satin Etch														.22/.15						
Low-E Glass	.27/.16							.21/.09						.21/.09	.18/.05	.18/.05	.18/.05	.18/.05	.18/.05	.18/.07
<b>8'0" Height Doors</b>																				
<b>Glass Size (Inches)</b>	<b>26x80</b>							<b>30x24</b>	<b>26x18</b>						<b>8x80</b>					
Decorative Glass								.22/.15	.22/.15						.22/.15					
Privacy & Textured Glass	.30/.28							.22/.15	.22/.15						.22/.15					
Low-E Glass	.27/.16							.21/.09	.21/.09						.21/.09					

\*Also includes arch and round top lite.

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
	Indicates Product is Energy Star Qualified in Northern Zone	
	Indicates Product is NOT Energy Star Qualified	





# 2020 Energy Star® Qualification Chart

Fiber-Classic® & Smooth-Star® Fiberglass Doors  
Featuring EnLiten™ Flush-Glazed Designs



Glass Designs												
	<b>6'8" Height Doors</b>											
Glass Size (Inches)	27x64	25x64	21x64	20x64	14x64	25x48	21x48	22x36	23x16	7x64	8x47	8x16
Privacy & Textured Glass	.31/.27	.31/.27		.31/.27		.31/.27	.27/.20		.21/.08	.19/.08		.21/.08
Grilles Between Glass	.34/.26	.34/.26		.34/.26		.34/.26	.29/.20	.25/.15		.20/.08	.20/.08	
Low-E Grilles Between Glass	.28/.15	.28/.15		.28/.15		.28/.15	.25/.10	.22/.08		.18/.04	.18/.04	
Clear	.32/.30	.32/.30		.32/.30	.25/.17	.32/.30	.28/.23	.25/.17		.20/.09	.20/.09	
Low-E Glass	.26/.15	.26/.15		.26/.15	.21/.09	.26/.15	.23/.12	.21/.09	.20/.07	.18/.05		.20/.07
Miniblinds		.36/.25	.36/.25									
Low-E Miniblinds		.31/.21	.31/.21									
<b>8'0" Height Doors</b>												
Glass Size (Inches)		25x80	21x80		14x80	25x64	20x64		23x16	7x80		8x16
Privacy & Textured Glass		.31/.27	.31/.27			.31/.27	.31/.27		.21/.08	.24/.15		.21/.08
Grilles Between Glass		.34/.26	.34/.26			.34/.26	.34/.26					
Low-E Grilles Between Glass		.28/.15	.28/.15			.28/.15	.28/.15					
Clear		.32/.30	.32/.30		.32/.30	.32/.30	.32/.30					
Low-E Glass		.26/.15	.26/.15		.26/.15	.26/.15	.26/.15		.20/.07	.22/.08		.20/.07
Miniblinds		.36/.25	.36/.25									
Low-E Miniblinds		.31/.21	.31/.21									

KEY	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
	Indicates Product is Energy Star Qualified in Northern Zone	
	Indicates Product is NOT Energy Star Qualified	



# 2020 Energy Star® Qualification Chart

## Fiber-Classic® & Smooth-Star® Impact Rated Fiberglass Doors



Glass Designs													
<b>6'8" Height Doors</b>													
<b>Glass Size (Inches)</b>	<b>22x64</b>	<b>20x64</b>	<b>16x64</b>	<b>14x64</b>	<b>22x47</b>	<b>22x36</b>	<b>20x36</b>	<b>22x36</b>	<b>21x15</b>	<b>8x36</b>	<b>7x64</b>	<b>8x47</b>	<b>8x36</b>
Decorative Glass	.28/.26	.28/.26			.24/.19	.22/.14	.22/.14	.22/.14	.18/.07	.18/.07	.18/.07	.18/.07	.18/.07
Decorative Glass – Wrought Iron	.30/.25	.30/.25			.26/.18	.23/.14		.23/.14	.19/.07	.19/.07	.19/.07	.19/.07	.19/.07
Frosted Glass	.30/.28	.30/.28			.26/.18	.23/.16		.23/.16		.19/.08	.19/.08		.19/.08
Privacy & Textured Glass	.28/.26				.24/.19	.22/.14		.22/.14	.18/.07	.18/.07	.18/.07	.18/.07	.18/.07
Grilles Between Glass	.31/.25	.31/.25		.23/.14	.27/.18	.23/.14		.23/.14		.19/.07	.19/.07	.19/.07	.19/.07
Low-E Grilles Between Glass	.25/.13	.25/.13		.20/.07	.22/.10	.20/.07		.20/.07		.17/.04	.17/.04	.17/.04	.17/.04
Miniblinds	.34/.23	.34/.23	.29/.17		.29/.17	.25/.13					.20/.06	.20/.06	.20/.06
Low-E Miniblinds	.30/.23	.30/.23	.26/.17		.26/.17	.23/.13					.19/.06	.19/.06	.19/.06
Clear Glass	.30/.28	.30/.28		.23/.16	.26/.18	.23/.16	.23/.16	.23/.16		.19/.08	.19/.08	.19/.08	.19/.08
Low-E Glass	.24/.15	.24/.15		.20/.09	.21/.11	.20/.09	.20/.09	.20/.09	.19/.07	.19/.07	.19/.07	.19/.07	.19/.07
<b>8'0" Height Doors</b>													
<b>Glass Size (Inches)</b>	<b>22x80</b>	<b>20x80</b>		<b>14x80</b>	<b>22x64</b>	<b>22x47</b>		<b>22x47</b>	<b>21x15</b>	<b>8x36</b>	<b>7x80</b>	<b>7x64</b>	<b>8x47</b>
Decorative Glass	.28/.26	.28/.26			.28/.26	.24/.19		.24/.19	.18/.07	.18/.07	.22/.14	.18/.07	.18/.07
Decorative Glass – Wrought Iron	.30/.25	.30/.25			.30/.25	.26/.18		.26/.18	.19/.07	.19/.07	.23/.14	.19/.07	.19/.07
Frosted Glass	.30/.28	.30/.28			.30/.28	.26/.18		.26/.18		.19/.08	.23/.16	.19/.08	
Privacy & Textured Glass	.28/.26				.28/.26	.24/.19		.24/.19	.18/.07	.18/.07	.22/.14	.18/.07	.18/.07
Grilles Between Glass	.31/.25	.31/.25			.31/.25	.27/.18		.27/.18		.19/.07	.23/.14	.19/.07	.19/.07
Low-E Grilles Between Glass	.25/.13	.25/.13			.25/.13	.22/.10		.22/.10		.17/.04	.20/.07	.17/.04	.17/.04
Miniblinds	.34/.23	.34/.23			.34/.23	.29/.17					.25/.13	.20/.06	.20/.06
Low-E Miniblinds	.30/.23	.30/.23			.30/.23	.26/.17					.23/.13	.19/.06	.19/.06
Clear Glass	.30/.28	.30/.28		.26/.18	.30/.28	.26/.18		.26/.18		.19/.08	.23/.16	.19/.08	.19/.08
Low-E Glass	.24/.15	.24/.15		.21/.11	.24/.15	.21/.11		.21/.11	.19/.07	.19/.07	.20/.09	.19/.07	.19/.07

Note: Impact-Rated products on this page utilize impact rated glass and structural door slabs.

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
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	Indicates Product is NOT Energy Star Qualified	

# 2020 Energy Star® Qualification Chart

## Steel Opaque & Lip-Lite Doors



Glass Designs																								
<b>6'8" Height Doors</b>																								
<b>Glass Size (Inches)</b>	<b>22x64</b>	<b>20x64</b>	<b>16x64</b>	<b>14x64</b>	<b>22x47</b>	<b>22x36*</b>	<b>20x36</b>	<b>22x27</b>	<b>8x36*</b>	<b>16x40</b>	<b>8x42R</b>	<b>22x10A</b>	<b>22x10R</b>	<b>21x15</b>	<b>22x6</b>	<b>7x18</b>	<b>8x6</b>		<b>7x64</b>	<b>8x47</b>	<b>8x36*</b>	<b>8x44S</b>	<b>8x6</b>	
Decorative Glass	.26/.27	.26/.27	.23/.20		.23/.20	.21/.15	.21/.15		.21/.15	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08			.18/.08		.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Decorative Glass – Wrought Iron	.33/.26	.33/.26			.28/.20	.25/.15	.25/.15		.25/.15		.20/.08			.20/.08					.18/.08	.20/.08	.20/.08			
Frosted Glass	.34/.30	.34/.30			.28/.23	.26/.17			.26/.17	.25/.17			.20/.09						.20/.09		.20/.09			
Privacy & Textured Glass	.26/.27				.23/.20	.21/.15			.21/.15								.18/.08		.18/.08	.18/.08	.18/.08			.18/.08
Grilles Between Glass	.34/.26				.28/.20	.25/.15			.25/.15			.20/.08	.20/.08						.20/.08	.20/.08	.20/.08			
Low-E Grilles Between Glass	.29/.14	.29/.14			.23/.10	.23/.08			.23/.08			.19/.04	.18/.04						.19/.04	.18/.04	.19/.04			
Miniblinds	.35/.25	.35/.25	.30/.18		.30/.18	.27/.14	.27/.14												.21/.07	.21/.07	.21/.07			
Low-E Miniblinds	.31/.21	.31/.21	.27/.15		.27/.15	.24/.12	.24/.12												.20/.06	.20/.06	.20/.06			
Clear Glass	.34/.30	.34/.30		.26/.17	.28/.23	.26/.17	.26/.17	.26/.17	.26/.17	.25/.17	.20/.09	.20/.09	.20/.09		.20/.09	.20/.09	.20/.09		.20/.09	.20/.09	.20/.09	.20/.09	.20/.09	.20/.09
Low-E Glass	.29/.16	.29/.16	.25/.12	.23/.09	.23/.11	.23/.09	.23/.09	.23/.09	.23/.09	.21/.09	.18/.05	.19/.05	.19/.05	.18/.05	.19/.05	.18/.05	.19/.05		.19/.05	.18/.05	.19/.05	.18/.05	.19/.05	.19/.05
Opaque																		.14/.01						
<b>8'0" Height Doors</b>																								
<b>Glass Size (Inches)</b>	<b>22x80</b>	<b>20x80</b>			<b>22x64</b>	<b>22x47</b>						<b>22x10A</b>			<b>22x6</b>		<b>8x6</b>		<b>7x80</b>					
Decorative Glass	.26/.27	.26/.27			.26/.27	.23/.20						.18/.08					.18/.08		.21/.15					
Decorative Glass – Wrought Iron	.33/.26	.33/.26			.33/.26	.28/.20													.25/.15					
Frosted Glass	.34/.30	.34/.30			.34/.30	.28/.23																		
Privacy & Textured Glass	.26/.27	.26/.27			.26/.27	.23/.20											.18/.08		.21/.15					
Grilles Between Glass	.34/.26	.34/.26			.34/.26	.28/.20						.20/.08							.25/.15					
Low-E Grilles Between Glass	.29/.14	.29/.14			.29/.14	.23/.10						.19/.04							.21/.08					
Miniblinds	.35/.25	.35/.25			.35/.25	.30/.18													.27/.14					
Low-E Miniblinds	.31/.21	.31/.21			.31/.21	.27/.15													.24/.12					
Clear Glass	.34/.30	.34/.30			.34/.30	.28/.23						.20/.09			.20/.09		.20/.09		.25/.17					
Low-E Glass	.29/.16	.29/.16			.29/.16	.23/.11						.19/.05			.19/.05		.19/.05		.21/.09					
Opaque																		.14/.01						

\*Also includes arch and round top lite.

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
	Indicates Product is Energy Star Qualified in Northern Zone	
	Indicates Product is NOT Energy Star Qualified	



# 2020 Energy Star® Qualification Chart

## Steel Impact Rated Doors



Glass Designs												
<b>6'8" Height Doors</b>												
<b>Glass Size (Inches)</b>	<b>22x64</b>	<b>20x64</b>	<b>16x64</b>	<b>14x64</b>	<b>22x47</b>	<b>22x36</b>	<b>20x36</b>	<b>21x15</b>	<b>8x36</b>	<b>7x64</b>	<b>8x47</b>	<b>8x36</b>
Decorative Glass	.28/.26	.28/.26			.25/.19	.22/.14	.22/.14	.18/.07	.18/.07	.18/.07	.18/.07	.18/.07
Decorative Glass – Wrought Iron	.30/.25				.26/.18	.23/.14		.19/.07	.19/.07	.19/.07	.19/.07	.19/.07
Frosted Glass	.30/.28	.30/.28			.26/.21	.23/.16			.19/.08	.19/.08		.19/.08
Privacy & Textured Glass	.28/.26				.25/.19	.22/.14			.18/.07	.18/.07	.18/.07	.18/.07
Grilles Between Glass	.31/.25	.31/.25			.27/.18	.24/.14			.19/.07	.19/.07		.19/.07
Low-E Grilles Between Glass	.25/.13	.25/.13			.23/.10	.21/.08			.18/.04	.18/.04		.18/.04
Miniblinds	.35/.23	.35/.23	.30/.17		.30/.17	.26/.13	.26/.13			.21/.06	.21/.06	.21/.06
Low-E Miniblinds	.30/.23	.30/.23	.26/.17		.26/.17	.23/.13	.23/.13			.19/.06	.19/.06	.19/.06
Clear Glass	.30/.28	.30/.28		.23/.16	.26/.21	.23/.16	.23/.16		.19/.08	.19/.08	.19/.08	.19/.08
Low-E Glass	.24/.15	.24/.15		.20/.09	.21/.11	.20/.09	.20/.09	.17/.05	.17/.05	.17/.05	.17/.05	.17/.05
<b>8'0" Height Doors</b>												
<b>Glass Size (Inches)</b>	<b>22x80</b>	<b>20x80</b>		<b>14x80</b>		<b>22x47</b>				<b>7x80</b>		
Decorative Glass	.28/.26	.28/.26				.25/.19				.22/.14		
Decorative Glass – Wrought Iron	.30/.25					.26/.18				.23/.14		
Frosted Glass	.30/.28	.30/.28				.26/.21				.23/.16		
Privacy & Textured Glass	.28/.26					.25/.19				.22/.14		
Grilles Between Glass	.31/.25	.31/.25				.27/.18				.24/.14		
Low-E Grilles Between Glass	.25/.13	.25/.13				.23/.10				.21/.08		
Miniblinds	.35/.23	.35/.23				.30/.17				.26/.13		
Low-E Miniblinds	.30/.23	.30/.23				.26/.17				.23/.13		
Clear Glass	.30/.28	.30/.28		.26/.21		.26/.21				.23/.16		
Low-E Glass	.24/.15	.24/.15		.21/.11		.21/.11				.20/.09		

Note: Impact-Rated products on this page utilize impact rated glass.

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
	Indicates Product is Energy Star Qualified in Northern Zone	
	Indicates Product is NOT Energy Star Qualified	

# 2020 Energy Star® Qualification Chart

Pulse® Fiberglass Lip-Lite Doors **ENTRY DOOR - S4L-LE**



Glass Designs								
<b>6'8" Height Doors</b>								
<b>Glass Size (Inches)</b>	<b>21x15</b>	<b>7x64</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>
Decorative Glass	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Decorative Glass – Wrought Iron	.25/.15	.20/.08						
Privacy & Textured Glass	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Low-E Glass	.22/.14	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05

Glass Designs										
<b>8'0" Height Doors</b>										
<b>Glass Size (Inches)</b>	<b>21x15</b>	<b>7x80</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>
Decorative Glass	.26/.27	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Decorative Glass – Wrought Iron	.32/.26	.25/.15								
Privacy & Textured Glass	.26/.27	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Low-E Glass	.27/.25	.21/.09	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
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	Indicates Product is NOT Energy Star Qualified	



# 2020 Energy Star® Qualification Chart

## Pulse® Fiberglass Impact Rated Doors



Glass Designs	
<b>6'8" Height Doors</b>	
<b>Glass Size (Inches)</b>	<b>7x64</b>
Decorative Glass	.18/.07
Decorative Glass – Wrought Iron	.19/.07
Privacy & Textured Glass	.18/.07
Low-E Glass	.19/.08
<b>8'0" Height Doors</b>	
<b>Glass Size (Inches)</b>	<b>7x80</b>
Decorative Glass	.22/.14
Decorative Glass – Wrought Iron	.23/.14
Privacy & Textured Glass	.22/.14
Low-E Glass	.20/.09

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
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	Indicates Product is NOT Energy Star Qualified	

Note: Impact-Rated products on this page utilize impact rated glass.

# 2020 Energy Star® Qualification Chart

## Pulse® Steel Lip-Lite Doors



Glass Designs								
<b>6'8" Height Doors</b>								
<b>Glass Size (Inches)</b>	<b>21x15</b>	<b>7x64</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>
Decorative Glass	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Decorative Glass – Wrought Iron	.25/.15	.20/.08						
Privacy & Textured Glass	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Low-E Glass	.22/.14	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05

Glass Designs										
<b>8'0" Height Doors</b>										
<b>Glass Size (Inches)</b>	<b>21x15</b>	<b>7x80</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>	<b>8x6</b>
Decorative Glass	.26/.27	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Decorative Glass – Wrought Iron	.33/.26	.25/.15								
Privacy & Textured Glass	.26/.27	.21/.15	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08	.18/.08
Low-E Glass	.27/.25	.21/.09	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05	.19/.05

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
	Indicates Product is Energy Star Qualified in Northern Zone	
	Indicates Product is NOT Energy Star Qualified	



# 2020 Energy Star® Qualification Chart

## Pulse® Steel Impact Rated Doors



Glass Designs	
<b>6'8" Height Doors</b>	
<b>Glass Size (Inches)</b>	<b>7x64</b>
Decorative Glass	.18/.07
Decorative Glass – Wrought Iron	.19/.07
Privacy & Textured Glass	.18/.07
Low-E Glass	.17/.05
<b>8'0" Height Doors</b>	
<b>Glass Size (Inches)</b>	<b>7x80</b>
Decorative Glass	.22/.14
Decorative Glass – Wrought Iron	.23/.14
Privacy & Textured Glass	.22/.14
Low-E Glass	.20/.09

<b>KEY</b>	Indicates Product is Energy Star Qualified in all 50 States	Numbers: U-Factor / Solar Heat Gain Coefficient x: Indicates Product Availability
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Note: Impact-Rated products on this page utilize impact rated glass.



LISTING INFORMATION OF Therma Tru 20 Min (with hose) Fiberglass Fire Door PP Model  
20PPFFD

SPEC ID: 25358

Therma Tru Corporation  
1750 Indian Wood Circle  
Maumee, OH 43537

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Fiberglass Reinforced Faced (Proprietary Core) (Simulated Panel Type or Flush) Swinging Door for installation in up to 20 minute locations (with or without hose stream-see table below). For use in any "Category C - Standard" frames. These doors may also be installed in frames listed in "Category C - Proprietary" in accordance with the frame manufacturer's individual listing. **A fire rated compression weather strip is required.**

**Limitations**

Cylindrical/Mortise/Deadbolt/Latches with maximum 2-3/4" backset/Card Reader/Surface Mounted Vertical Rod Fire Exit Devices/Rim-Type Fire Exit Devices/Viewers/Protection Plates/Surface Mounted Closers/Surface or Kerf Mounted Door Bottom/ Arch Top and Round Top Door Configurations.

**Maximum Size of Openings**

Single Swing (**with hose stream**) 3'0" wide x 6'8" high

Standard and Double Egress Pairs - Not Allowed

**Testing Standard**

UL-10C (Positive Pressure) (2009)  
 NFPA 252 (2008)  
 CAN4 S104 (1985)

All assemblies are identified by a label or marking bearing the wording, "Listed (Product)", a time interval, temperature rise (if applicable), a serial number and the WHI Certification Mark.

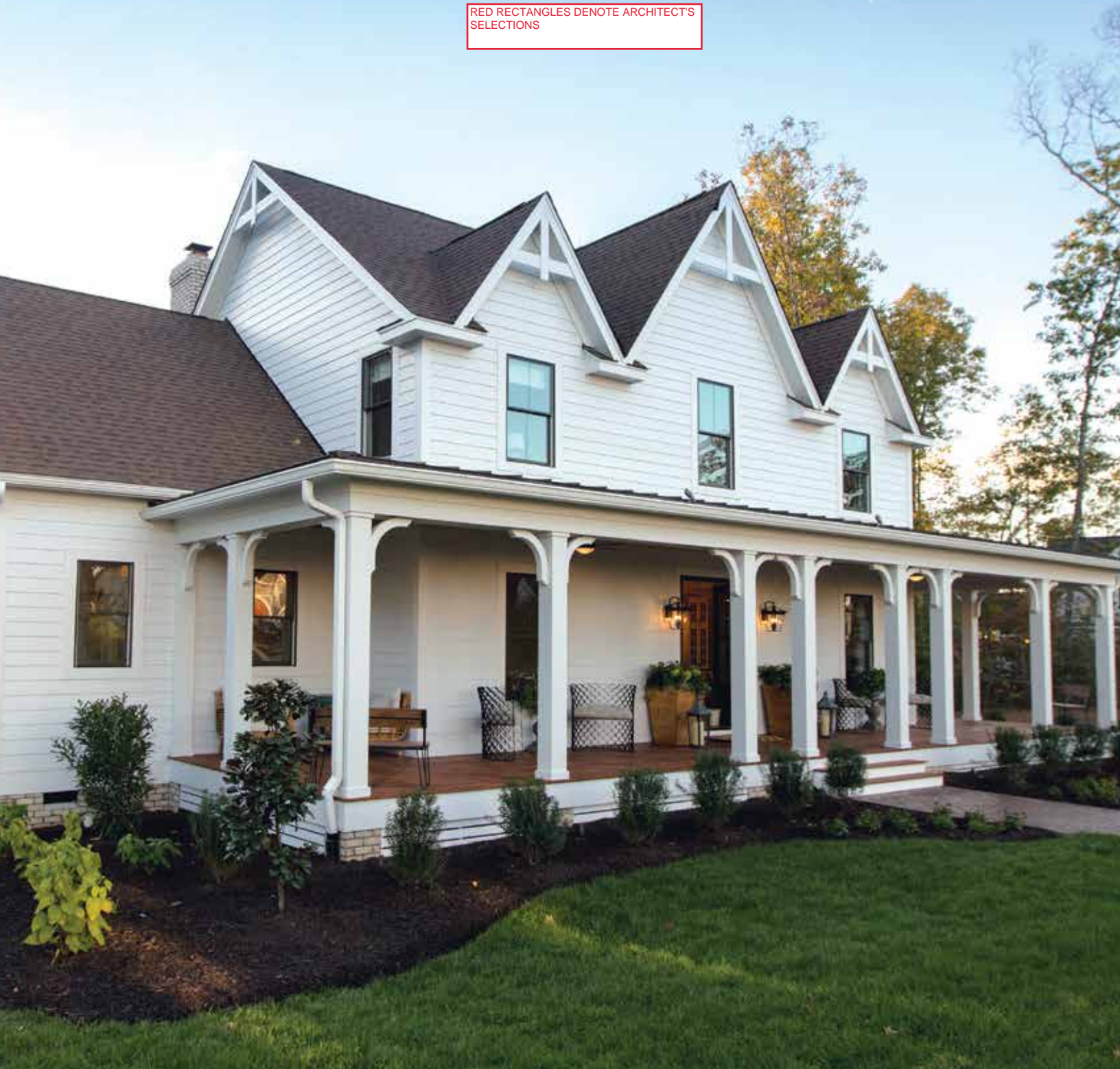
(Unless otherwise specified, all Fire Doors have a nominal thickness of 1-3/4".)

<u>Attribute</u>	<u>Value</u>
CSI Code	08 10 00 Doors and Frames
CSI Code	08 15 00 Plastic Doors
Fire Resistance	20 Min w/Hose Stream PP Cat A Door
Swing	Single Swing
Listed or Inspected	LISTED
Report Number	100354358MID-001
Criteria	CAN4 S104 (1985)
Criteria	NFPA 252 (2008)
Criteria	UL 10(c) (2009)
Intertek Services	Certification
Listing Section	CATEGORY A - DOORS - NO ADDITIONAL EDGE-SEALING SYSTEM REQUIRED





RED RECTANGLES DENOTE ARCHITECT'S SELECTIONS



Discover a whole new  
**SIDE OF HOME.**



Build confidently  
**BY DESIGN.**







Installed on over 8 million homes\* from coast to coast, James Hardie® fiber cement siding products are designed to resist the most extreme conditions while delivering long term beauty and lower maintenance. Enjoy the warm, natural look of wood with unprecedented peace of mind. It's easy to see what makes James Hardie the market leader.

### UNIQUE FORMULATION

We use the highest quality raw materials and proprietary additives for enhanced strength and moisture protection.

### FINISHING TECHNOLOGY

Baked-on color delivers a beautiful finish that resists fading and makes a lasting impression.

### COMPLETE EXTERIOR

Offers homeowners an unrivaled collection of design options with exceptional warranties through a single, trusted manufacturer.

\*Estimate based on total James Hardie siding sales through 2016 and average housing unit size.

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# HardieZone® System

Only James Hardie® fiber cement products are Engineered for Climate®. In the northern U.S. and Canada, HZ5® products resist shrinking, swelling and cracking even after years of wet or freezing conditions. HZ10® products help protect homes from hot, humid conditions, blistering sun and more.

With James Hardie® siding and trim, homeowners have an exterior that's tougher than the elements and easy on the eyes.

## NO MATTER WHAT NATURE BRINGS







HardieTrim®  
Boards  
Timber Bark

HardiePlank®  
Lap Siding  
Khaki Brown

# TOUGHER THAN THE ELEMENTS



Stands up to storms and harsh weather



Water resistant to protect against swelling, warping and cracking



Won't be eaten by animals or insects



Fire resistant



Helps reduce time and money spent on maintenance

Resist the elements  
**WITH IRRESISTIBLE BEAUTY.**

# Unique Formulation

## HZ5<sup>®</sup> Substrate

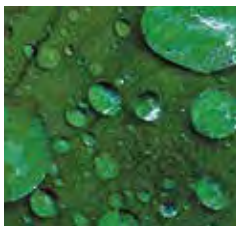
Not all fiber cement is the same. The James Hardie HZ5 product formulation contains the highest quality raw materials. Proprietary additives, combined with an innovative manufacturing process and product design, create a substrate specifically engineered to reduce moisture and resist damage from wet or freezing conditions.

### PROPRIETARY ENHANCEMENTS CREATE DURABLE JAMES HARDIE<sup>®</sup> SIDING



#### Perfect balance of strength and workability

Our balance of high-quality Portland cement, sand and cellulose fiber delivers the best combination of strength and workability.



#### Enhanced moisture resistance for unmatched durability

Patented and proprietary additives are chemically bonded within the HZ5<sup>®</sup> substrate matrix to provide durable moisture resistance.

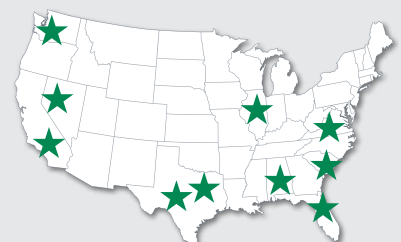


#### Increased dimensional stability

Our siding is engineered at the microscopic level to create a fiber cement composite with superior dimensional stability that helps protect against shrinking and splitting.



MADE IN THE  
**USA**





Integrity is ingrained  
**IN EVERYTHING WE DO.**

HardiePlank®  
Lap Siding  
Evening Blue



**The advanced design of HZ5® lap siding improves drainage from top to bottom.**

In addition to the enhanced moisture resistance of our product formulation, HardiePlank® HZ5® lap siding features a modified profile with a sloped top and bullnose drip edge for improved drainage over the entire outer face of the board.



**Sloped Top**

Positive slope at top drains moisture to outer face of lap



**Profiled Drip Edge**

Bottom bullnose drip edge allows moisture to drain away from lap



# Finishing Technology

## Primer

A quality primer is the first step to ensuring that the paint color you select beautifully expresses a home's true character now – and for years to come. Our distinctive primer is climate-tested and engineered to enhance the performance of paint on James Hardie® fiber cement siding products. It helps to provide consistent, long-lasting paint adhesion, even in the most demanding conditions.

## ColorPlus® Technology

Our advanced ColorPlus® Technology finishes deliver the ultimate in aesthetics and performance. Our products aren't simply painted at the factory. Our proprietary coatings are baked onto the board, creating a vibrant, consistent finish that performs better, lasts longer and looks brighter on your homes.



### Exceptional finish adhesion

Our proprietary coating is engineered for exceptional adhesion to our substrate and applied to the surface, edges and features for durable performance.



### Superior color retention

Finish is cured onto boards for a stronger bond, which allows for exceptional resistance to cracking, peeling and chipping.



### Superior UV resistance

ColorPlus® Technology finishes retain vibrancy longer when compared to vinyl siding and typical field paints on other siding products.



**ColorPlus®**  
Technology





HardieShingle®  
Straight Edge  
Cobble Stone

HardieTrim®  
Boards  
Arctic White

HardiePlank®  
Lap Siding  
Cobble Stone

## Lasting beauty **BEGINS WITH THE FINISH.**

**Our finishes help eliminate stress and reduce costly weather delays** when it's too cold or damp to paint for extended periods. Now there's no reason to question whether or not sub-optimal painting conditions will negatively affect your paint job. In fact, there's no longer any need to paint on-site during installation.

ColorPlus® Technology finishes are fully cured in a controlled environment and arrive on your job site ready for year-round installation.







ColorPlus®  
Technology  
Pearl Gray

ColorPlus®  
Technology  
Iron Gray

For complete confidence wrap your  
**ENTIRE EXTERIOR WITH JAMES HARDIE.**





# James Hardie Complete Exterior™

Top to bottom, our exterior product line is defined by excellent performance, aesthetics and design options.

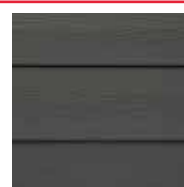
Provide protection from the elements, showcase a homeowner's individual style and install peace of mind with exceptional warranties through a single, trusted manufacturer.



HardieShingle®  
Siding



HardiePanel® Vertical  
Siding & HardieTrim®  
Batten Boards



HardiePlank®  
Lap Siding



HardieTrim®  
Boards



HardieSoffit®  
Panels



# HardiePlank®

Sleek and strong, HardiePlank® lap siding is not just our best-selling product – it's the most popular brand of siding in America.

With a full spectrum of colors and textures, homeowners can enjoy protection from the elements and the versatility to make their dream home a reality. From Victorians to Colonials, HardiePlank lap siding sets the standard in exterior cladding.

HardieTrim®  
Boards  
Arctic White

HardiePlank®  
Lap Siding  
Select Cedarmill®  
Khaki Brown

A classic look for  
**THE HOME OF THEIR DREAMS.**



# HardiePlank®

Thickness 5/16 in  
Length 12 ft planks

## SELECT CEDARMILL® & SMOOTH

	Width	5.25 in	6.25 in	7.25 in	8.25 in	9.25 in*
Exposure		4 in	5 in	6 in	7 in	8 in
Prime Pcs/Pallet		360	308	252	230	190
ColorPlus Pcs/Pallet		324	280	252	210	—
Pcs/Sq		25.0	20.0	16.7	14.3	12.5

## SELECT CEDARMILL®



	Width	5.25 in	6.25 in	7.25 in	8.25 in	9.25 in*
STATEMENT COLLECTION™			✓		✓	
DREAM COLLECTION™		✓	✓	✓	✓	
PRIME		✓	✓	✓	✓	✓

## SMOOTH



	Width	5.25 in	6.25 in	7.25 in	8.25 in	9.25 in*
STATEMENT COLLECTION™			✓		✓	
DREAM COLLECTION™		✓	✓	✓	✓	
PRIME		✓	✓	✓	✓	

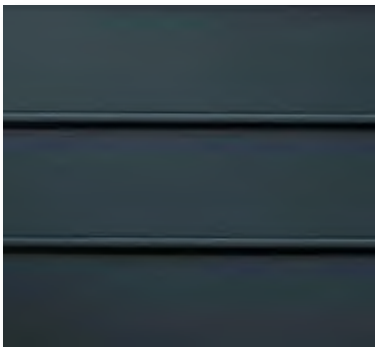
## BEADED CEDARMILL®



## BEADED CEDARMILL® & BEADED SMOOTH

Width	8.25 in
Exposure	7 in
ColorPlus Pcs/Pallet	210
Pcs/Sq	14.3
STATEMENT COLLECTION™	—
DREAM COLLECTION™	✓
PRIME	—

## BEADED SMOOTH



\*9.25 in widths do not feature the drip edge

# HardiePanel®

---

HardiePanel® vertical siding delivers style and substance. When combined with HardieTrim® boards, it achieves the rustic board-and-batten look that defines cottage charm. The covered seams contribute to a well-insulated home.

Its crisp, clean lines make HardiePanel vertical siding a smart choice for strong, contemporary designs.



HardiePanel®  
Vertical Siding  
Evening Blue

HardieTrim®  
Batten Boards  
Evening Blue

True to your needs of  
**PERFORMANCE AND BEAUTY.**



# HardiePanel®

Thickness 5/16 in

## SELECT CEDARMILL®, SMOOTH, STUCCO & SIERRA 8

	Size 4 ft x 8 ft	4 ft x 10 ft
Prime Pcs/Pallet	50	50
ColorPlus Pcs/Pallet	50	50
Pcs/Sq	3.2	2.5

### SELECT CEDARMILL®



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

### SMOOTH



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

### STUCCO



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

### SIERRA 8



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™		
PRIME	✓	✓

# HardieShingle®

Restore the look of a grand Cape Cod or add distinction to a handsome bungalow. HardieShingle® siding embodies the enchanting look of cedar shingles with lower maintenance.

Better than the real thing, HardieShingle siding resists rotting, curling, warping and splitting.



HardieTrim®  
Boards  
Arctic White

HardieShingle®  
Straight  
Edge Panel  
Pearl Gray

Achieve the handcrafted  
**LOOK OF CEDAR.**



# HardieShingle®

Thickness 1/4 in



## STAGGERED EDGE PANEL

Length	48 in
Height	15.25 in
Exposure	6 in
ColorPlus Pcs/Pallet	100
Sq/Pallet	2
Pcs/Sq	50.0

STATEMENT COLLECTION™ \_\_\_\_\_

DREAM COLLECTION™

PRIME \_\_\_\_\_



## STRAIGHT EDGE PANEL

Length	48 in	48 in
Height	14 in	15.25 in
Exposure	5 in	7 in
ColorPlus Pcs/Pallet	120	86
Sq/Pallet	2	2
Pcs/Sq	60.0	43.0

STATEMENT COLLECTION™

DREAM COLLECTION™

PRIME \_\_\_\_\_



## HALF ROUNDS

Length	48 in
Height	15.25 in
Exposure	7 in
Prime Pcs/Pallet	86
Sq/Pallet	2
Pcs/Sq	43.0

STATEMENT COLLECTION™ \_\_\_\_\_

DREAM COLLECTION™ \_\_\_\_\_

PRIME

# HardieTrim®

Form meets function at every angle with HardieTrim® boards. With an authentic look, HardieTrim boards provide design flexibility for columns, friezes, doors, windows and other accent areas.

Better than wood, it will complement your long-lasting, lower maintenance James Hardie® siding – adding punctuation to your design statement.

HardieTrim®  
Boards  
Khaki Brown

HardiePlank®  
Lap Siding  
Navajo Beige

The performance you require.

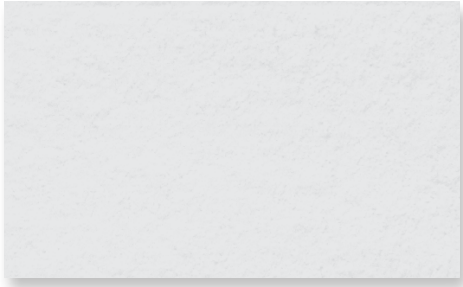
**THE DISTINCTIVENESS YOU DESIRE.**



# HardieTrim®

Length 12 ft boards

## NT3® BOARDS SMOOTH



### 4/4 SMOOTH

Thickness	.75 in				
Width	3.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	312	208	156	104	104

STATEMENT COLLECTION™	✓	✓	✓		✓
DREAM COLLECTION™	✓	✓	✓	✓	✓
PRIME					

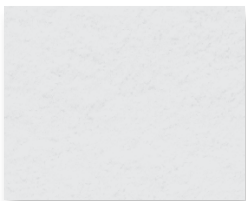
### 5/4 SMOOTH

Thickness	1 in					
Width	3.5 in	4.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	240	200	160	120	80	80

STATEMENT COLLECTION™	✓	✓	✓	✓		✓
DREAM COLLECTION™	✓	✓	✓	✓	✓	✓
PRIME						

## BATTEN BOARDS

### SMOOTH



### RUSTIC GRAIN®



### SMOOTH & RUSTIC GRAIN®

Thickness	.75 in
Width	2.5 in
Prime Pcs/Pallet	190
ColorPlus Pcs/Pallet	437

STATEMENT COLLECTION™	✓
DREAM COLLECTION™	✓
PRIME	✓

# HardieSoffit®

---

A home is only as strong as its weakest point. HardieSoffit® panels reinforce your work by protecting the vulnerable gap between eaves and exterior walls.

Available in vented, non-vented and a range of pre-cut sizes, these panels complete your design and help protect it from moisture and pests.

## VENTILATION BENEFITS

Using vented soffit improves ventilation in the attic space and reduces the chance of water vapor condensation that can lead to issues such as mold and mildew growth, stained ceilings and damage to the framing of the house.

In warm climates, HardieSoffit panels allow hot, humid air to escape, which not only helps prevent condensation in the attic, but can also help reduce air conditioning costs.

In cool climates, HardieSoffit panels help prevent condensation from forming on the interior side of the roof sheathing and reduce the chances of roof-damaging ice dams.



HardieSoffit®  
Panels  
Dream Collection™  
product

For complete confidence  
**EVERY DETAIL MATTERS.**



# HardieSoffit®

Thickness 1/4 in

## VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft
Width	12 in	16 in	24 in
Prime Pcs/Pallet	200	150	100
ColorPlus Pcs/Pallet	216	156	108

### VENTED SMOOTH



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
------	---------------	---------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

✓	✓	✓
✓	✓	✓

### VENTED SELECT CEDARMILL®



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
------	---------------	---------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

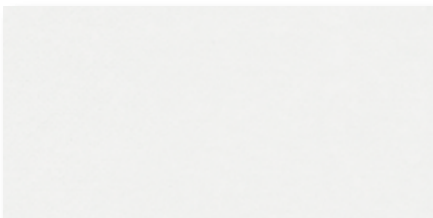
#### PRIME

✓	✓	✓

## NON-VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft	8 ft
Width	12 in	16 in	24 in	48 in
Prime Pcs/Pallet	200	150	100	50
ColorPlus Pcs/Pallet	216	156	108	—

### NON-VENTED SMOOTH



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
------	---------------	---------------	--------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

✓	✓	✓	
✓	✓	✓	✓

### NON-VENTED SELECT CEDARMILL®



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
------	---------------	---------------	--------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

✓	✓	✓

### BEADED PORCH PANEL



Thickness	1/4 in
Length	8 ft
Width	48 in
ColorPlus Pcs/Pallet	50

### BEADED PORCH PANEL

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

—
✓
—

# STATEMENT COLLECTION™

Make your next home stand out with our Statement Collection™ products. Carefully curated by our design experts specifically for your market, the collection brings together the most popular James Hardie ColorPlus® siding and trim styles, textures, and colors. This stunning selection is locally stocked and designed for simplicity - making it easier than ever to get a beautiful, long-lasting home exterior.

## ColorPlus® Technology

### Plank, Panel, Shingle and Batten Color Offering



### Trim Color Offering



Colors shown are as accurate as printing methods will permit. Please see actual product sample for true color.



## HardiePlank®



### SELECT CEDARMILL®

Width 6.25 in 8.25 in  
Exposure 5 in 7 in



### SMOOTH

Width 6.25 in 8.25 in  
Exposure 5 in 7 in

## HardiePanel®



### SELECT CEDARMILL®

Size 4 ft x 10 ft



### SMOOTH

Size 4 ft x 10 ft

## HardieShingle®



### STRAIGHT EDGE PANEL

Height 14 in 15.25 in  
Exposure 5 in 7 in

## HardieTrim®

### 4/4 SMOOTH



Thickness .75 in  
Length 12 ft boards  
Width 3.5 in 5.5 in 7.25 in 11.25 in

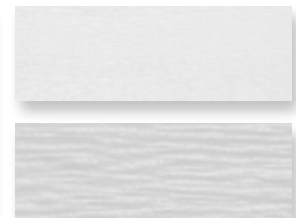
### 5/4 SMOOTH



Thickness 1 in  
Length 12 ft boards  
Width 3.5 in 4.5 in 5.5 in 7.25 in 11.25 in

## BATTEN BOARDS

### 4/4 SMOOTH & RUSTIC GRAIN®



.75 in  
2.5 in



Selecting a color? Request a product sample at [jameshardiepros.com/samples](http://jameshardiepros.com/samples)

# Get Inspired

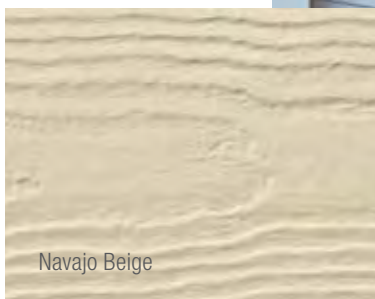
## CRISP & CLEAN

### LIGHT COLORS

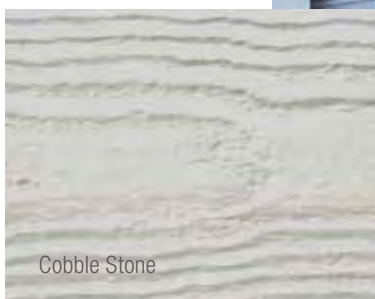
Whites and soft pastels are pure, clean, new and bright. Combine with other hues to add interest, personality and contrast. Works well on houses with Colonial Inspiration. A pastel A-frame cottage can look sweet and charming.



Arctic White



Navajo Beige



Cobble Stone

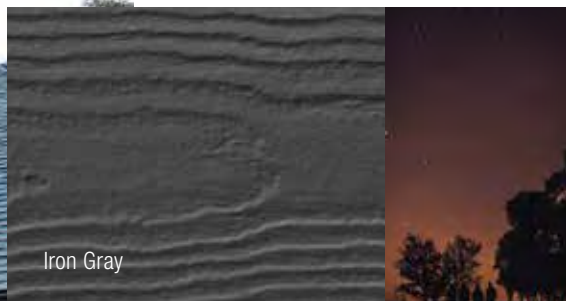
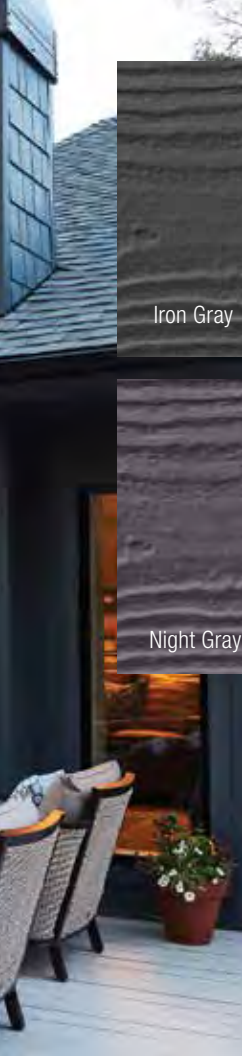


## SUBTLE & SOPHISTICATED

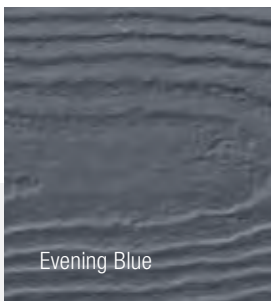
### NEUTRAL COLORS

Neutral rules the suburbs. These shades are safe, but also sophisticated. When accessorized with black or a darker color, a neutral can look fashionably stylish. Play with textures and use different tones for trim.

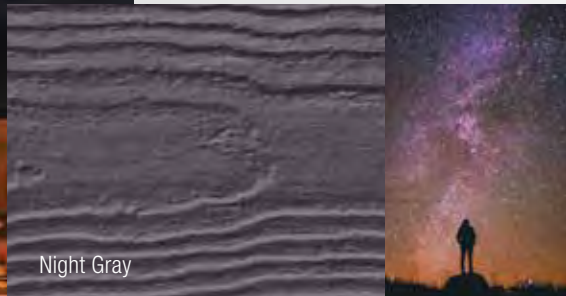




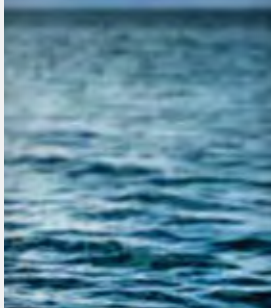
Iron Gray



Evening Blue



Night Gray



## A BOLD CHOICE

### DARK COLORS

Dark grays, blues and greens can feel both intellectual and modern. When used with white trim, they create drama. Works well in old neighborhoods, or urban environments, where there is a mix of old and new.

## DREAM COLLECTION™

Looking to further express your sense of style? Look to our Dream Collection™ products.

- Featuring a color palette of over 700 ColorPlus® Technology finishes
- Made to order in a wide array of James Hardie® siding and trim styles
- Matches elevated design flexibility with the uncompromising performance of our fiber cement products

To see what's possible and order Dream Collection product samples visit [jameshardiepros.com/dream](http://jameshardiepros.com/dream)



Khaki Brown



Monterey Taupe



Timber Bark



# HardieWrap®

No exterior cladding can prevent 100% of water intrusion. Your homes should have an additional line of defense. HardieWrap® weather barrier provides a superior balance of water resistance and breathability, keeping the area within the wall drier. This helps prevent moisture accumulation that may lead to mold and mildew growth.

## INSTALLATION ADVANTAGES

- Thicker, more durable material for easier, quicker installation
- Superior tear resistance helps prevent water infiltration
- Can be installed with staples in place of cap nails for cost savings
- Provides a higher level of performance, no matter what type of cladding you specify



We've got performance covered  
**FROM THE INSIDE OUT.**



HardieWrap®  
Weather Barrier

HardieWrap®  
Pro-Flashing

HardieWrap®  
Flex Flashing

HardieWrap®  
Seam Tape

### WEATHER BARRIER

Thickness	11 mil			
Length	100 ft	100 ft	150 ft	150 ft
Width	3 ft	9 ft	9 ft	10 ft

### PRO-FLASHING

Thickness	20 mil		
Length	75 ft	75 ft	75 ft
Width	4 in	6 in	9 in

### FLEX FLASHING

Thickness	60 mil	
Length	75 ft	75 ft
Width	6 in	9 in

### SEAM TAPE

Thickness	3.2 mil
Length	164 ft
Width	1-7/8 in



To learn more about our weather barrier's advantages, visit [jameshardiepros.com](http://jameshardiepros.com)



# Install Done Right

## Installation Accessories

### HARDIEBLADE® SAW BLADES

Manufactured by Diablo, the HardieBlade® saw blade is designed specifically to cut fiber cement products, and is the only saw blade James Hardie recommends. The blade creates clean, precise cuts while helping to reduce the amount of airborne dust produced. Specially designed to outlast other fiber cement saw blades by 3X, outlasting carbide blades by 60X.



### PACTOOL® GECKO GAUGE

The PacTool® Gecko Gauge is designed to improve the installation experience, allowing one person to hang HardiePlank® lap siding during installation. Studies suggest the Gecko Gauge can improve the speed of solo installation by 30%.



## Finishing Touches

### ColorPlus® Technology Accessories

#### TOUCH-UP KITS

Specially formulated to match ColorPlus Technology finishes, our touch-up kits offer resistance to aging, color change and chalking. Estimated one kit per 4000 sq ft of siding or 1600 sq ft of trim.



#### COLOR MATCHED CAULK

OSI® QUAD® MAX sealant offers a high performance sealant solution to color match Statement Collection™ products.\* About 18-20 linear feet per tube. Refer to packaging for manufacturer's recommendations.

*\*For matching Dream Collection products, contact your local James Hardie representative.*

## Trim Accessories

#### FLAT TABS

Eliminate face nails and improve the aesthetic of trim applications around windows, doors and band boards.

#### CORNER TABS

Use corner tabs to eliminate face nail holes that would detract from the finished look of corner trim installations.



Find useful job-site tips in our industry-leading Best Practices Guide. For the latest installation instructions, visit [jameshardiepros.com](http://jameshardiepros.com)



HardiePlank®  
Select Cedarmill®  
Timber Bark

HardieTrim®  
Boards  
Arctic White

As unforgettable  
**AS IT IS UNCOMPROMISING.**





# See the James Hardie Difference



James Hardie invented fiber cement. Over 8 million homes\* later, we continue to set the standard in premium, high-performance exterior cladding. Our products deliver uncompromising durability and finish quality for a beautiful, lower maintenance exterior.

Our unrivaled investment in R&D and constant innovations in product design, manufacturing and distribution allow us to remain steps ahead of the competition. With the support of our employees, partners and exceptional warranties, we're committed to protecting your customers' homes while helping your business grow.

\*Estimate based on total James Hardie siding sales through 2016 and average housing unit size.

# Warranty – for peace of mind

Protect your homes with North America's #1 brand of siding backed by exceptional warranties. Unlike other brands, James Hardie doesn't prorate our siding and trim warranty coverage. We stand behind our siding 100% for 30 years and trim for 15 years.

ColorPlus® Technology finishes come with a 15-year limited warranty.

## James Hardie Non-Prorated Siding Substrate Warranty Coverage



# Endorsements – a reputation built on trust

For decades, our fiber cement products have been used to create better places to live. Each new home stands as a testament to our uncompromising quality. That proven track record has earned the loyalty of millions of homeowners and the endorsements of trusted authorities across the building industry.



Listed as top building materials & products by **Professional Builder 2018**



Chosen by builders as a **Brand Leader** in **Builder magazine** for over 20 years



**James Hardie® siding & trim products** have earned the **Good Housekeeping Seal**





HardieTrim®  
Boards  
Arctic White

HardieShingle®  
Straight Edge  
Pearl Gray

Make every home  
**STAND UP AND STAND OUT.**





HardiePanel®  
Vertical Siding  
Iron Gray

HardieTrim®  
Batten Boards  
Iron Gray

1.888.542.7343 | jameshardiepros.com

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 **JamesHardie™**  
Siding | Trim



RED RECTANGLE DENOTES ARCHITECT'S SELECTIONS

## Superior Product Design for Ultra-Strength



### High-strength Ultrum™ Alloy, Made in the USA

It's as strong as steel, but will never rust. Ultrum is a 6005-T5 alloy, with a minimum ultimate strength of 35,000 psi.



### Factory assembled, with stainless-steel fasteners

For structural integrity and strength you can count on.



**All gates are fastened and 100% welded at all connections and joints**  
Designed to stand up to the rigors of everyday use.



### Powercoat™ Finish—panels, gates, posts and designer accessories

Our Powercoat™ finish is twice the thickness and hardness of a typical acrylic, baked enamel, or "wet paint" finish, making it more durable, fade-resistant and scratch-resistant than other coatings.



### Colors

Ultra Aluminum™ fencing, railing, gates and designer accessories are available in nine classic colors as well as custom specified hues. All colors are applied with an exclusive Powercoat™ finish to resist harsh weather and heat.



Colors shown represent an approximate comparison and may vary slightly from actual product color.



### Ultra Aluminum™ Lifetime Warranty

Ultra Aluminum fence and railing products are guaranteed for life

against defects in workmanship and/or materials. The exclusive Powercoat™ finish on all fencing and railing by Ultra Aluminum is unconditionally guaranteed for life against cracking, peeling or chipping. Visit our website for more information and a copy of the warranty.



### Environmentally Responsible

We are proud to use recycled aluminum in our products. Aluminum is the most commonly recycled metal in the world. Our Powercoat™ coating process is environmentally friendly and virtually pollution-free.



ULTRAFENCE.COM | ULTRARAILING.COM

UA 06 9/19

800.656.4420

Ultra and the picket caps logo is a registered trademark of Ultra Aluminum Manufacturing Inc.



# Aluminum Fencing and Railing

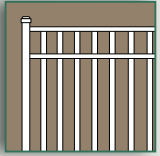


Residential, Commercial and industrial

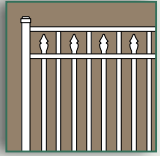




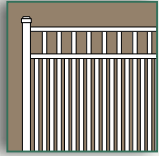
# Ultra Fencing™ Design Options



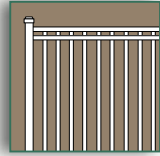
UAF-200 Flat-Top



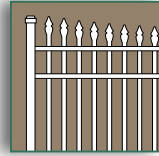
UAF-250 Flat-Top with Spear



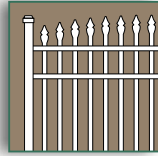
UAF-201 Flat-Top with 1-5/8" Spacing



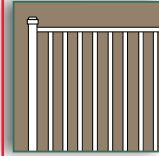
UAB-200 Flat-Top Flush



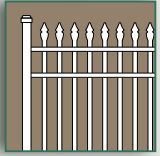
UAS-300 Concave



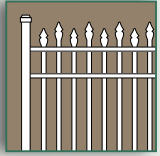
UAS-350 Convex



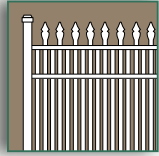
UAB-400 Ultra Picket



UAS-100 Spear Top



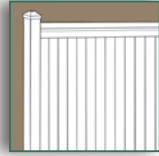
UAS-150 Staggered Spear



UAS-101 Spear Top with 1-5/8" Spacing



UAL-100 Curved-Top with Spear



Eclipse™ Privacy

Ultra Aluminum™ fencing is available in a wide selection of design configurations. Residential available in 3-13/16" or 1-5/8" spacing. Commercial available in 3-5/8" or 1-1/2" spacing. Industrial fencing not available in UAB-200 or UAB-400.

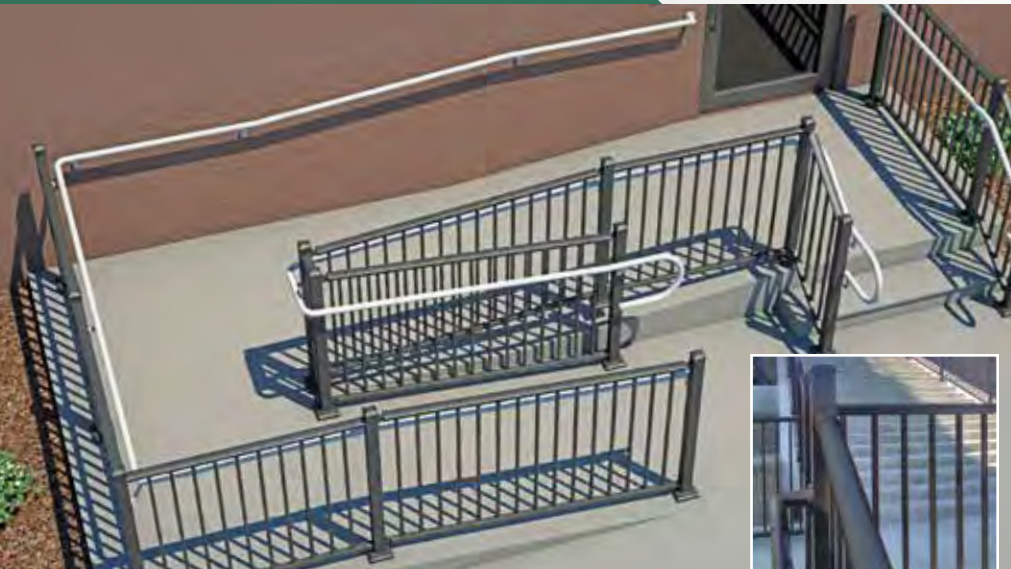
## Designer Accessories

Our cast aluminum designer accessories include scrolls, butterflies, circles and two styles of finials, all available in the same Powercoat™ finish for a perfect accent.



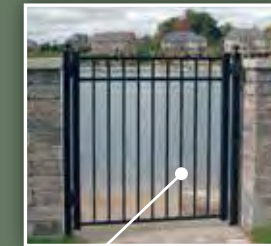
From Left To Right: Decorative Circles, Butterfly Scrolls, Large Scrolls, Quad-Finial, Tri-Finial, Ball Cap

## ULTRA RAILING™



### Ultra Aluminum™ 1.5" Secondary Handrails

We designed our Ultra 1.5" secondary handrail as a modular system to meet the railing code requirements for the Americans with Disabilities Act and Uniform Federal Accessibility Standards. It works well with Ultra Signature™ and Ultra Max® Railing systems.



STANDARD WALK GATE



STANDARD DRIVE GATE



ULTRA ESTATE COLLECTION DRIVE GATE

## Pool Fencing

We design fencing to meet all the stringent BOCA pool safety codes, and to enhance your property at the same time. Most notably, the bottom rail can be flush with the bottom of the fence, so no pickets are exposed.

All pool fence sections come factory pre-assembled in 6' lengths with a broad offering of heights— 48", 54", 60", and 72". Custom lengths and heights available.



OUR FENCING IS SPECIALLY DESIGNED FOR SAFETY AROUND POOL ENCLOSURES.

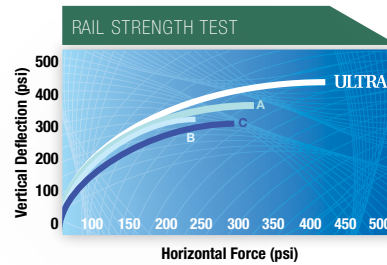
## Walk and Drive Gates

Matching Walk and Drive Gates can typically be manufactured in widths ranging from 3' – 28' and in heights from 3' – 8'. Please consult your sales representative for variations.

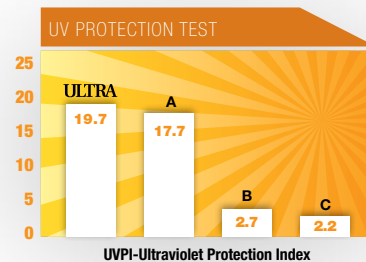




We make a scale of fencing for every neighborhood and home style. All fence sections come factory pre-assembled in 6' lengths with a broad offering of heights—36" to 144". Custom lengths and heights are available by special order. Each section easily follows modest changes in grade along your property lines, or can be factory designed to conform to more prominent hills and valleys.



An independent test lab pushed our fencing and our competitors' to their limits. The Rail Strength Test revealed the extra pressure that Ultrarail™ can withstand on a daily basis, surpassing one competitor's product by nearly 100%.



An independent lab's accelerated weathering test shows that the Ultra's exclusive Powercoat™ finish maintains higher levels of UV Protection compared to other leading manufacturers' finishes.

**RESIDENTIAL SERIES** sets the standard for perimeter and pool fencing.



1.0" X 1.125" REINFORCED RAIL  
0.625" PICKETS

**COMMERCIAL SERIES** has larger-scale components for heavier-duty performance.



1.25" X 1.375" REINFORCED RAIL  
0.75" PICKETS  
1.5" SPACING (OPTIONAL)

**ECLIPSE™ PRIVACY SCREENING** the ultimate in heavy-duty, low-maintenance privacy and security.



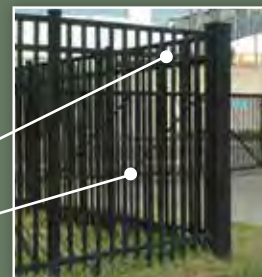
0.75" X 5.0" X .080" T&G BOARDS

**Industrial Strength**

For applications where additional security and strength are required, Ultra has developed Industrial Series fencing. Our Industrial fence sections come in 6' and 8' lengths, and heights from 3' to 12'. Custom lengths and heights are available by special order. Some limitations apply; ask your sales representative for details.

*Industrial Series also available in Premium grade, featuring a 2-piece fully encased rail that provides additional strength and hides the fasteners.*

**INDUSTRIAL SERIES** incorporates our largest-scale components for industrial-strength and safety.



1.625" X 1.625" REINFORCED RAIL  
1.0" PICKETS

**259 MPH TOUGH!**

Our fencing tested to withstand hurricane wind gusts of up to 259 MPH.





# WOODTONE

## INTERIOR & EXTERIOR PRODUCT CATALOGUE

RED RECTANGLES DENOTE  
ARCHITECT'S SELECTIONS



**WOODTONE**  
inspired living, *inside and out*





02	Introduction
03	RealTrim™ Treated
05	RusticSeries™ Siding
09	Chrometallics™ Siding
11	ColorSelect™ Siding
13	Wall + Ceiling Collection
17	Shiplap Paneling
19	RealPost™
20	RealCorner™
21	AbsolutePost™
22	AbsoluteTrim™
23	The Woodtone Way

At Woodtone, we strive to take your vision and bring it to life. We design, manufacture and market the finest interior and exterior building products.



# RealTrim™ Treated

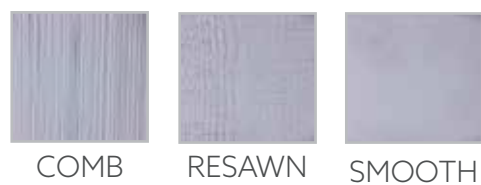


## Superior grade, treated trim product.

For four decades you've depended on us for a superior trim product. Over the years we've continued to innovate, providing the cutting edge product you need to stay on top. The two-step treated sealant process used in creating RealTrim™ Treated has been engineered by Sherwin Williams, the largest coating expert in North America.

- Industry leading 25 year limited warranty
- Tight grain, hand selected SPF wood trim
- Advanced two step treated sealant technology

### TEXTURES

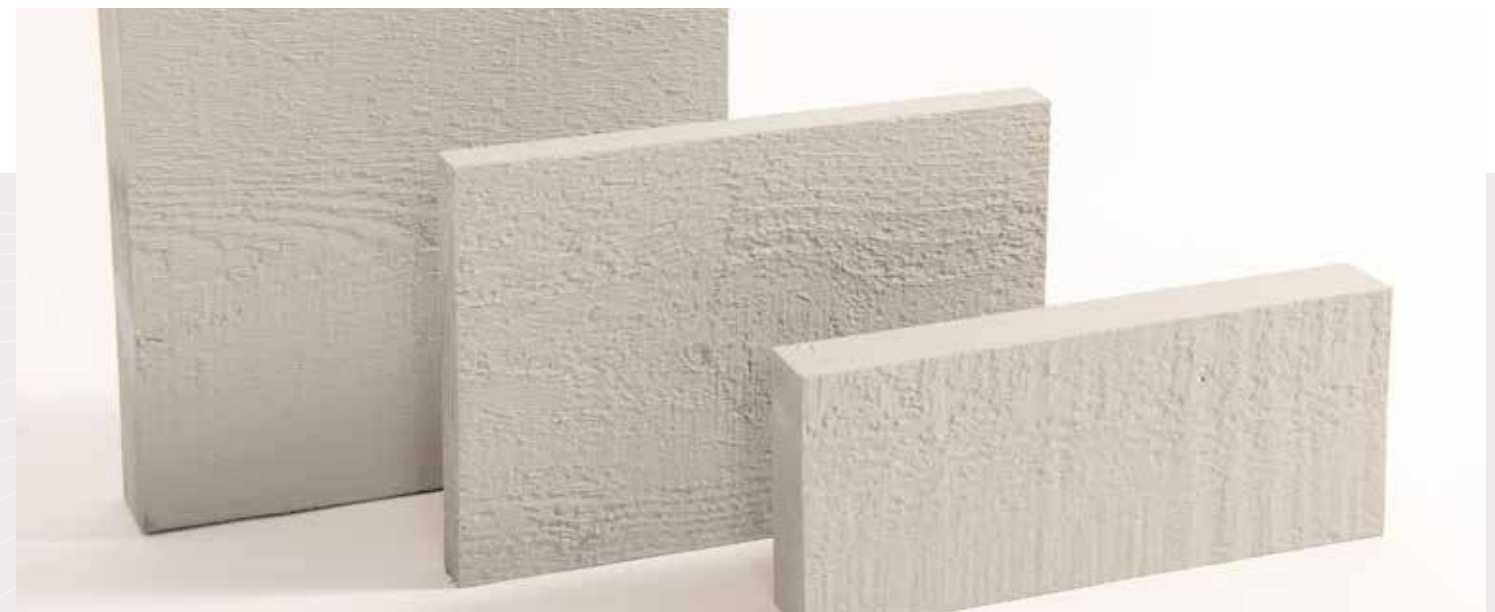


COMB    RESAWN    SMOOTH

## Industry leading technology.

Durable coating technology developed by Woodtone in partnership with global coating manufacturer, Sherwin Williams with industry leading performance against mold and mildew growth, as tested by ASTM standards.

<b>SUBSTRATE</b>	Knotty, appearance grade SPF
<b>PROFILES</b>	1" (11/16), 5/4" (1 1/8), 2" (1 1/2)
<b>WARRANTY</b>	25 year no-rot warranty
<b>COATING</b>	Two step treated sealant technology





# RusticSeries™ Siding Collection



SUMMER WHEAT on Allura Fiber Cement

## Composite siding with the appearance of wood.

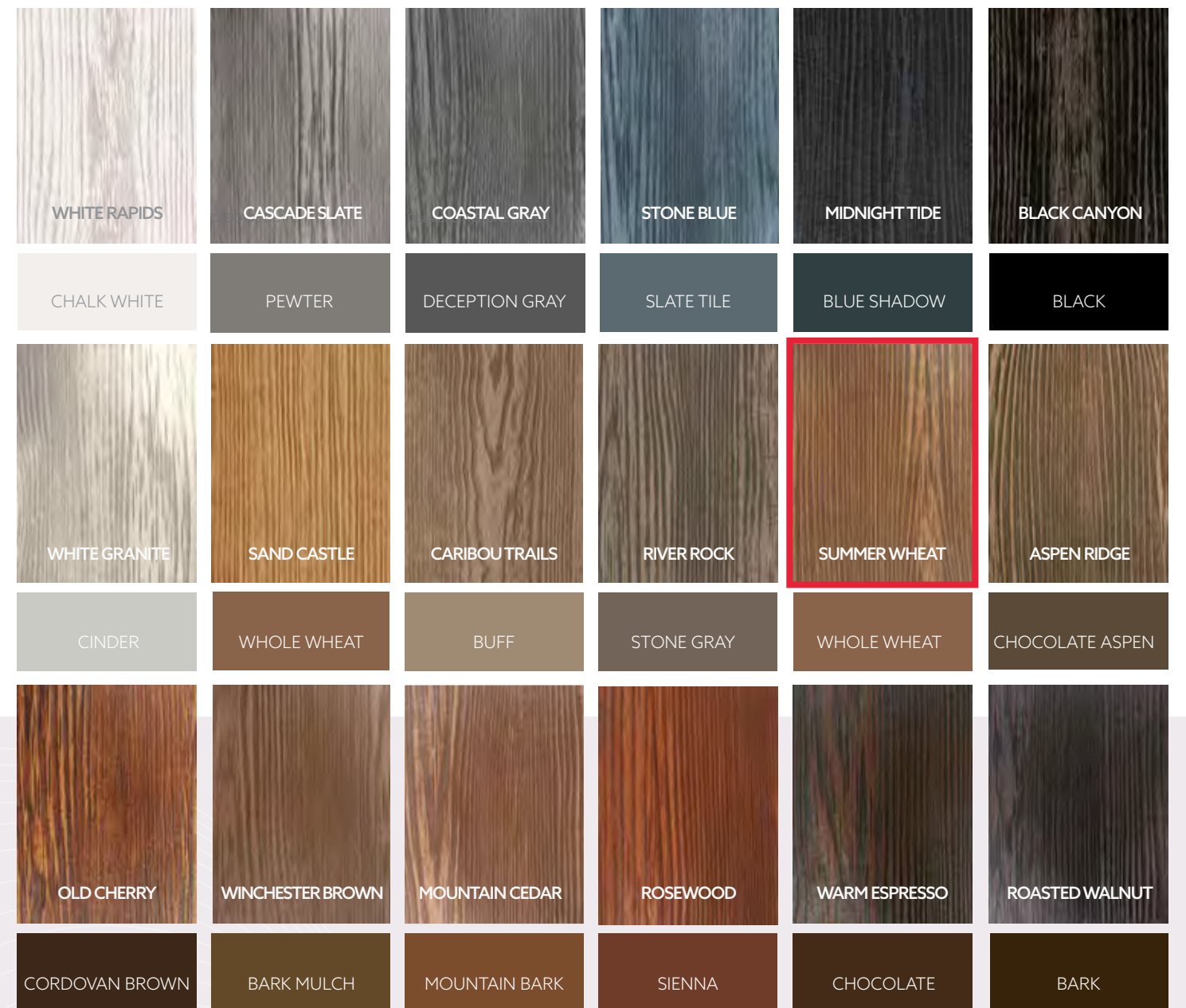
RusticSeries™ brings you the best of both worlds; the beauty and warmth of real wood on durable fiber cement and composite siding. This two tone factory applied coating system improves the curb appeal of your home, and is warranted for 20 years. RusticSeries™ will shield you from the elements and provide you with a lasting, beautiful siding product for years to come.

- 20 Year Coating Warranty
- 18 Designer Colors
- Lap, shakes and panel profiles available
- Factory coated for consistency and durability

## Two-tone perfection.

Create a picture perfect exterior with our eighteen RusticSeries™ colors; select the perfect combination to suit your individual style. RusticSeries colors below are shown with a suggested solid color trim to complete the look.

<b>SUBSTRATE</b>	James Hardie Fiber Cement, Allura Fiber Cement, LP Smartside
<b>PROFILE</b>	Lap siding, panels, shake panels
<b>WARRANTY</b>	20 year coating warranty, plus substrate warranty
<b>COLORS</b>	18 color options



Note: RusticSeries™ replicates the natural beauty of wood. Each substrate and each profile of this product varies in terms of grain pattern and color variance. Due to limitations of the printing process, actual color may vary from the color shown. Refer to a physical sample for approvals.



# Craftsman 3 Panel 3 Light Premium Wood Pella® Entry Door

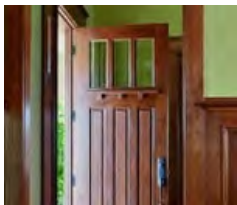
\$\$\$\$

Make your entryway the focal point of your home's exterior with a Craftsman 3 Panel 3 Light wood entry door. The 3 light traditional panel design with optional dentil shelf creates an authentically Craftsman aesthetic. Personalize your entryway with optional sidelights and transoms designed to coordinate with the Craftsman 3 Panel 3 Light entry door.

**SEE OPTIONS**

RED RECTANGLES INDICATE ARCHITECT'S SELECTIONS





## CRAFTSMAN 3 PANEL 3 LIGHT WOOD ENTRY DOOR FEATURES

### Why Wood?

- Natural durability and beauty of wood
- Each door is one-of-a-kind

### Design Elements

- One-of-a-kind Mahogany wood panel
- Traditional Craftsman panel design with three lights

- Elegant Mahogany or stunning Rustic Walnut premium wood panels
- Our most customizable material
- Traditional grilles and optional dentil shelf
- Coordinating sidelights and transom available

**45% off qualifying installations<sup>1,3</sup>**

OR

**0% APR for 36 months<sup>2,3</sup>**

[See Details](#)

Enter Your Postal Code

50219

**GET A FREE QUOTE AT HOME**

## PREMIUM WOOD ENTRY DOORS

Harnessing the earth's handiwork, Pella premium wood entry doors are a step above the rest. Choose the warm elegance of Mahogany or stunning Rustic Walnut for a one-of-a-kind entry door from the #1 preferred entry door brand.<sup>52</sup>

**EXPLORE WOOD ENTRY DOORS**



## BROWSE OTHER WOOD ENTRY DOORS



Planked Panel Square Light



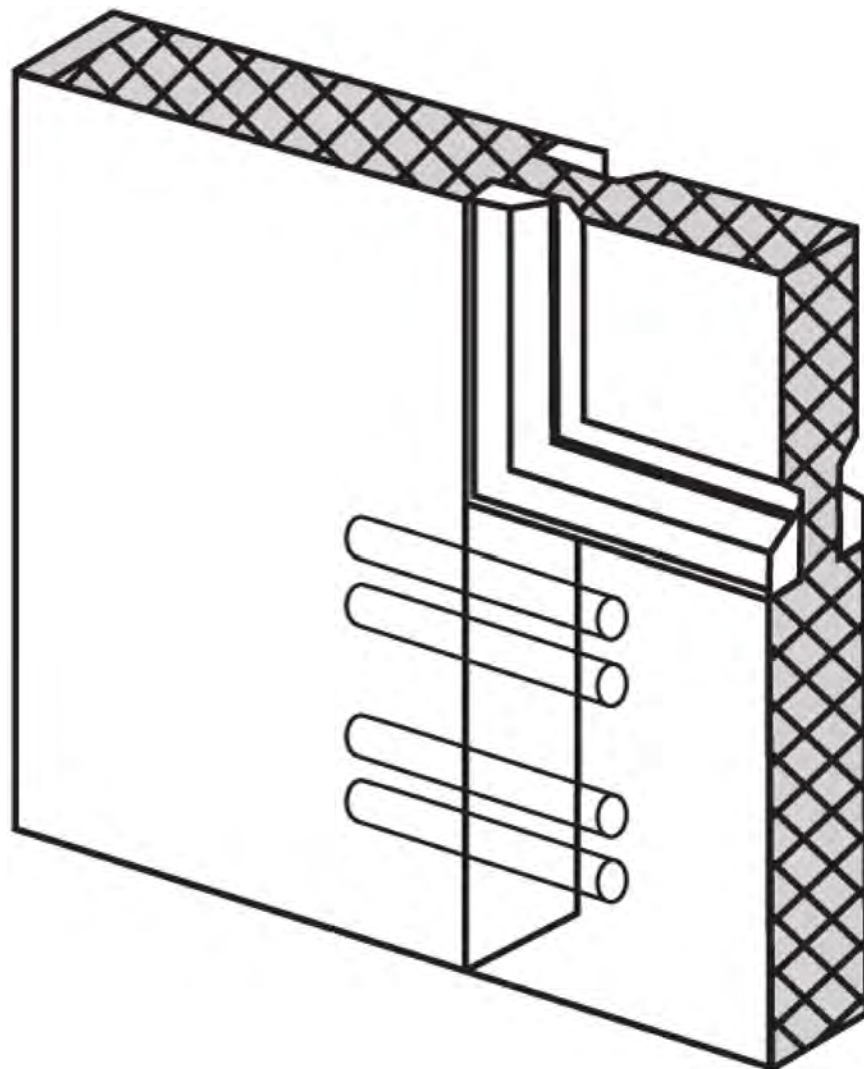
3 Panel



## SEE ALL WOOD ENTRY DOORS WITH GLASS

## INSIDE OUR WOOD DOORS

Designed for strength and durability, our all wood, precision-engineered premium wood entry doors are built into an ethically sourced, exotic mahogany frame. The panel features hardwood dowels for added strength and it floats within the frame to adjust to outside weather extremes.



## HOW TO CHOOSE THE RIGHT DOOR FOR YOUR HOME

Your home is unique, so don't settle for just any front entry door. With many styles, sizes and materials to choose from, we can help you find what's right for your home.

**SEE THE STEPS**





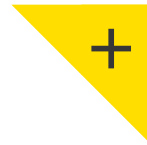
FOR THE PROS

## ENTRY DOOR INSTALLATION AND PRODUCT SPECS

Whether you're working on a new construction, pocket replacement or full replacement job, find everything you need to know for your next entry door installation. Explore product specs and installation details to save time on your next project.

### Browse the Product Specs

## FRONT ENTRY DOOR WITH GLASS INSPIRATION



### Wood Entry Door And Windows Feature Authentic Details

## OPTIONS FOR CRAFTSMAN 3 PANEL 3 LIGHT WOOD ENTRY DOORS

CHOOSING YOUR ENTRY DOOR

STYLING YOUR ENTRY DOOR



**ENTRY DOOR ENHANCEMENTS**

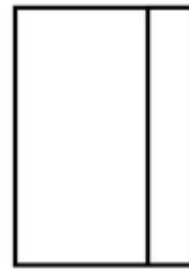
**CHOOSING YOUR ENTRY DOOR**

**COMBINATIONS**

Add optional sidelights or sidelights with a transom for more light into your entryway. [Learn more about combinations.](#)



Single Door with Left Sidelight



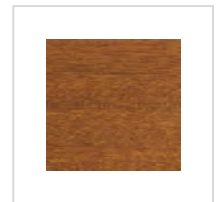
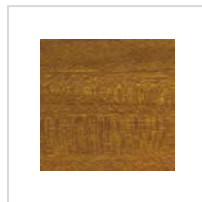
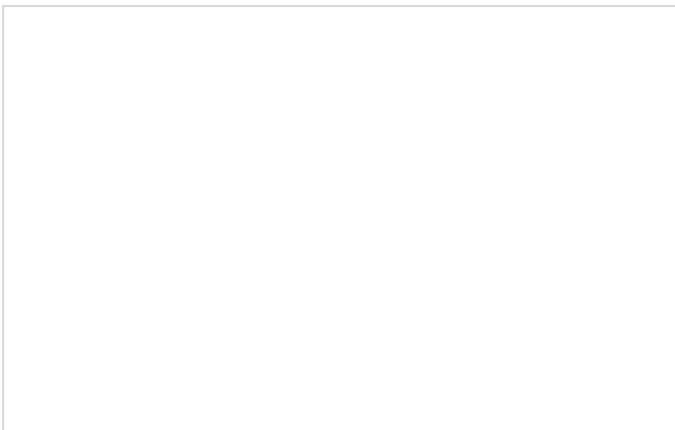
Single Door with Right Sidelight



**PREFINISHED STAINS**

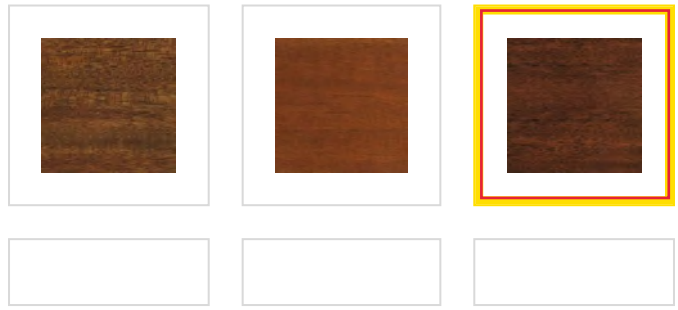
Rich, factory-applied stains provide long-lasting beauty, style and versatility. Stains are applied using our exclusive prefinish process for exceptional durability.

**Mahogany**





Bordeaux



## FRAME FINISHES

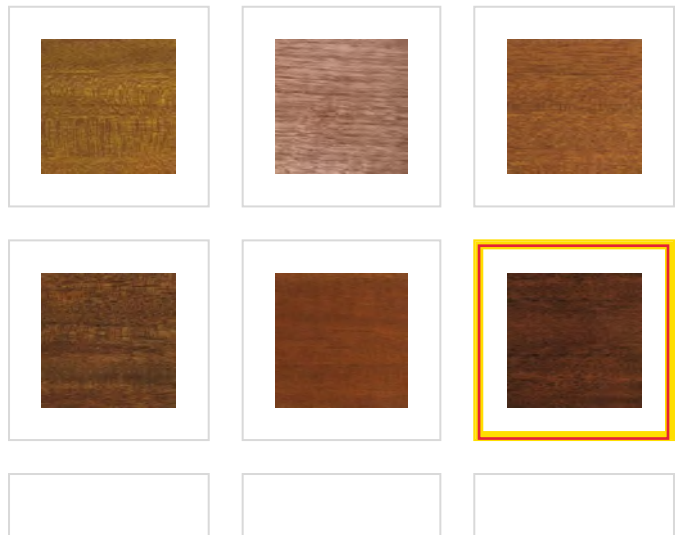
Coordinate the finish of your frame with your premium wood entry door for a cohesive look. Our frames use the same color on both the interior and exterior.

### Mahogany

---



Bordeaux





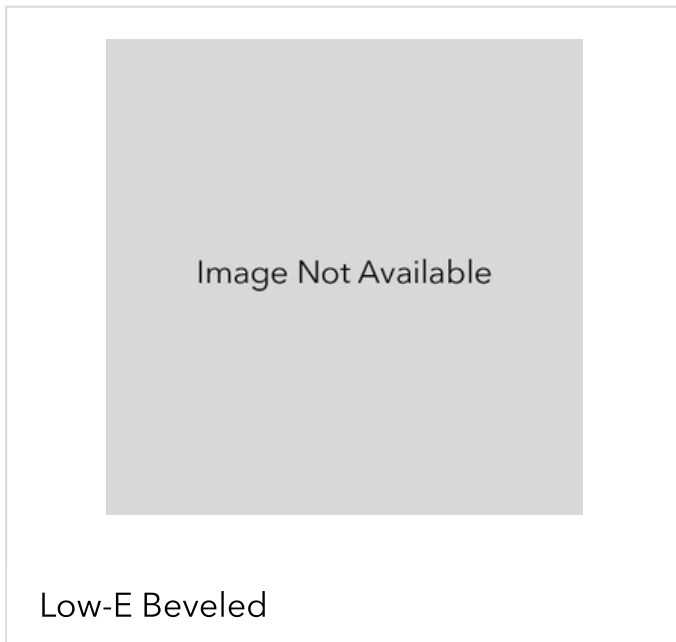
## STYLING YOUR ENTRY DOOR

### GLASS

Pella offers a variety of glass options to fit your style, including exclusive decorative glass designs that are hand-assembled. Low-E and obscure privacy glass are also available. [Learn more about glass collections.](#)

#### Low-E Glass

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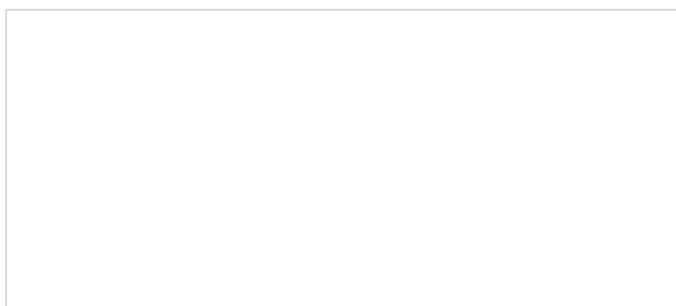


### GRILLES

Add architectural interest to your wood entry door with grilles. Available in a number of styles, profiles and patterns, grilles enhance the beauty of your entryway.

#### Patterns Profiles

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3x1 Traditional

## DÉCOR

For added style, accent your premium wood door with architecturally authentic accessories. [Learn more about decor.](#)

Dentil Shelf   Hinges   Sill Options



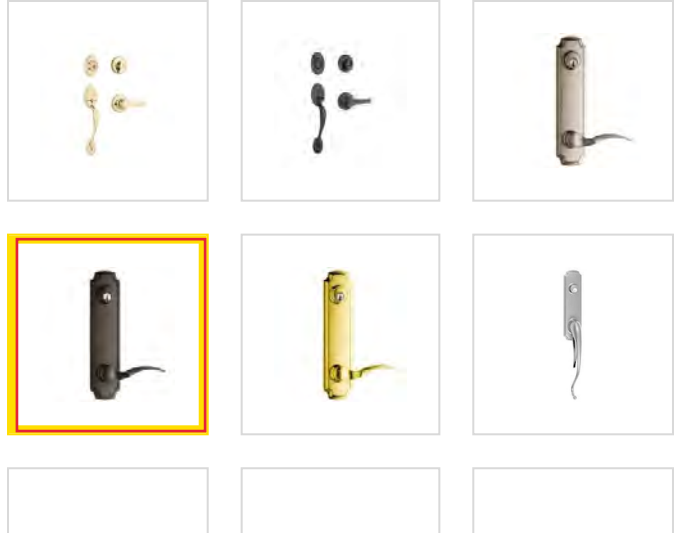
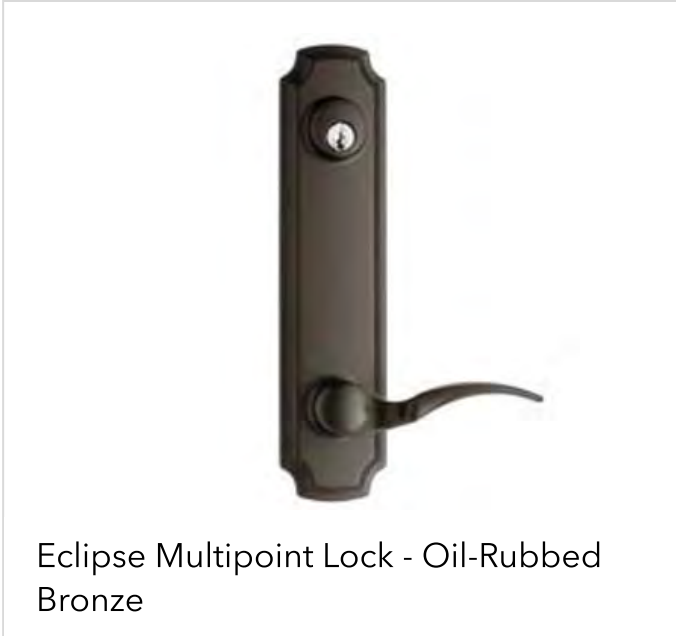
NO SHELF

## HARDWARE



Our Essential Collection hardware with SmartKey Re-Key Technology adds a finishing touch to the unique look of your home. Optional multipoint lock secures the door in three places with one twist of the thumbturn. [Learn more about hardware](#)

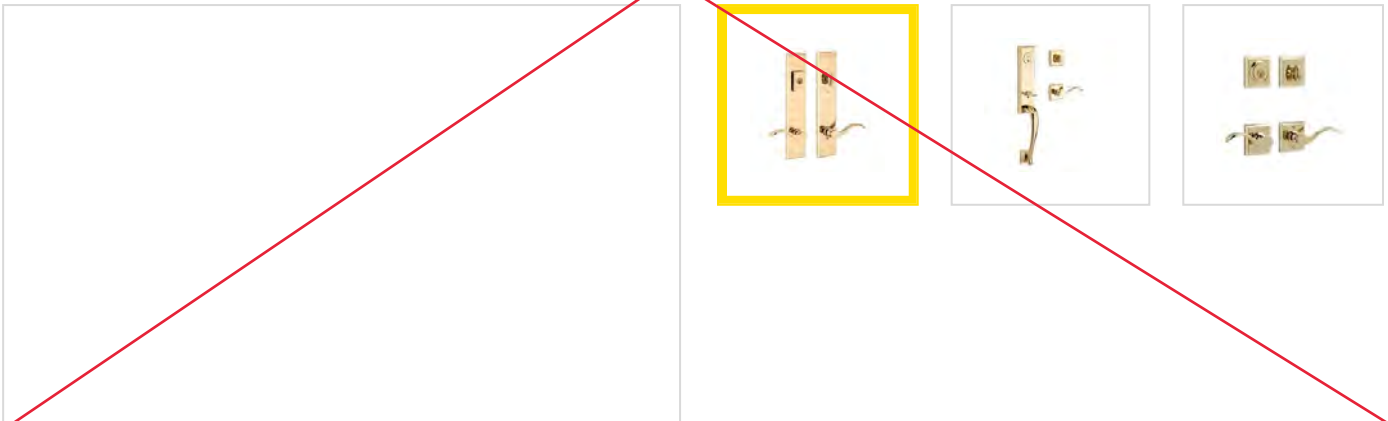
### Essential Collection



### ~~BALDWIN® HARDWARE COLLECTION~~

~~Add personality to your door with our beautiful hardware collections - created with the sophistication you would expect from Pella and Baldwin Reserve™ Hardware. Choose from our Classic, Modern and Rustic Collections all with SmartKey Re-Key Technology. Optional multipoint lock secures the door in three places with one twist of the thumbturn.~~

~~Classic Collection   Rustic Collection   Modern Collection~~



Learn About Performance



RED RECTANGLES DENOTE  
ARCHITECT'S SELECTIONS

## MADE WITH CARE

We take pride in the little details and strive for perfection. Pella wood craftsmen who average over 14 years' experience tailor-make these windows and doors for you and your home.







## ARCHITECT SERIES - TRADITIONAL SINGLE-HUNG WINDOW SPECS & INSTALL DETAILS

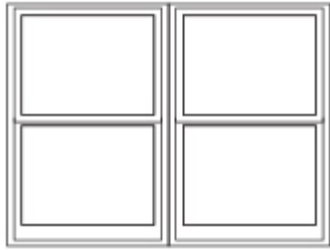
- Optional integrated wireless security sensors maintain aesthetics, streamline security installation and ensure no warranty loss is caused by post-installation drilling
- Performance class and grade CW30-CW50 and STC of 26-34
- Available in sizes from 14" x 24" to 54" x 96" in 1/8" increments
- Installation options include Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
- EnduraClad® aluminum-clad exteriors provide exceptional protection for lasting performance

**REQUEST A PROJECT QUOTE**

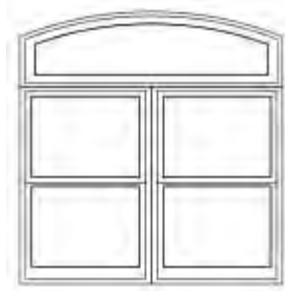


## COMBINATIONS

Create window combinations to add architectural interest to your home. Other combinations are also available. See your Pella sales representative for the complete offering.



2 wide



Transom over 2 wide

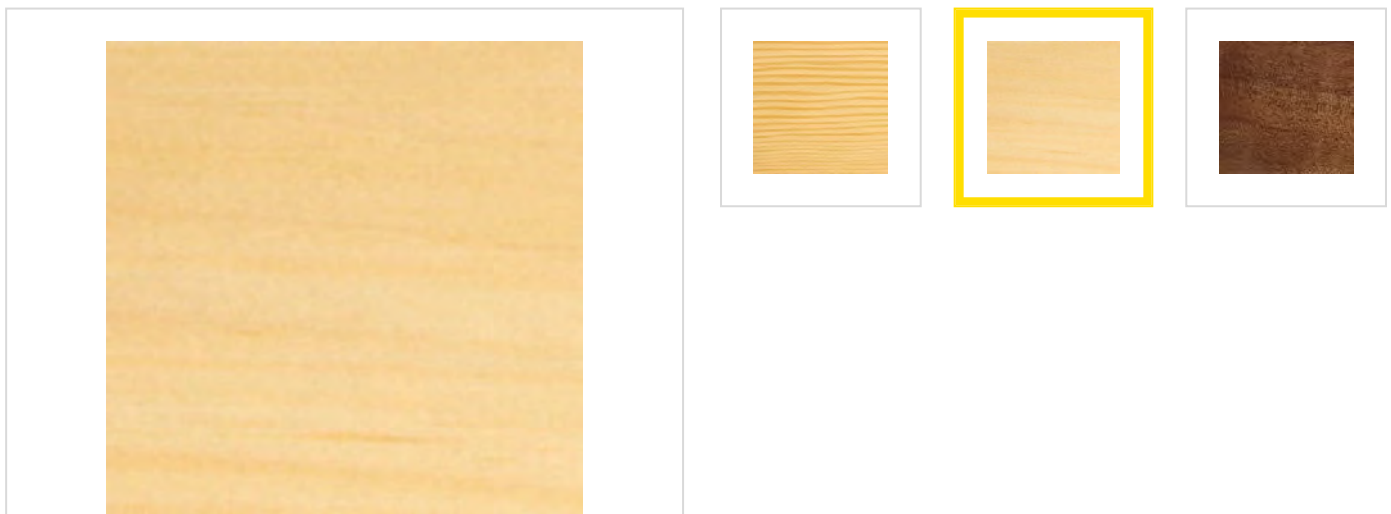


## MATERIALS

Architect Series products offers three exquisite wood types to enhance your home's design. [Learn more about materials.](#)

And, we stand behind them with a limited lifetime warranty. See written Limited Warranty for details, including exceptions and limitations.

### Materials





## For Pros

### Materials

Pella's EnduraGuard® wood protection formula has three active ingredients. This powerful combination, together with our immersion-treatment method, helps ensure strong protection on every exterior wood surface of our products. The result is advanced protection against the effects of moisture, decay and stains from mold and mildew.

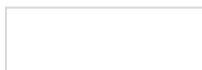
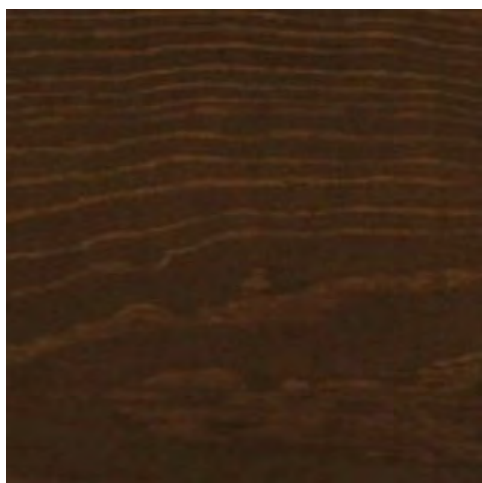


## INTERIOR FINISHES

Pella wood products can arrive with factory-prefinished interiors in your choice of eleven beautiful stain colors or four paint colors. Primed ready-to-paint interiors are also available.<sup>2</sup>

Stains    Paints

---

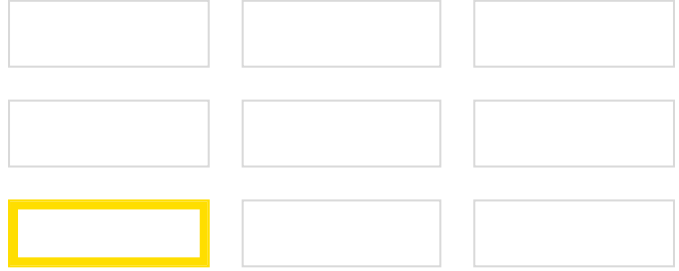


## EXTERIOR FINISHES

Our low-maintenance, aluminum-clad exteriors with EnduraClad® resist chalking and fading and are available in 27 standard colors and custom options to meet your design needs. Take durability further with EnduraClad Plus protective finish, which meets the industry’s highest exterior coating standard to defend against chalking and fading.<sup>57</sup>

### Exterior Finish

---



### For Pros

#### Exterior Finishes

Aluminum-clad wood products are available with Pella's high performance EnduraClad® protective finishes or EnduraClad Plus protective exterior finishes to help keep your vision fresh and crisp for years.

- Durable, low-maintenance EnduraClad aluminum cladding with EnduraClad protective finish for most projects where resistance to fading, chalking, chemicals and abrasion is needed. Meets the performance requirements of AAMA 2603.





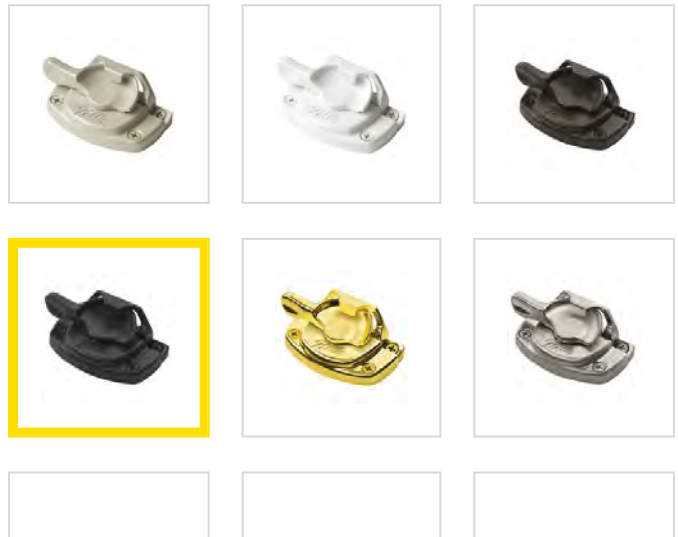
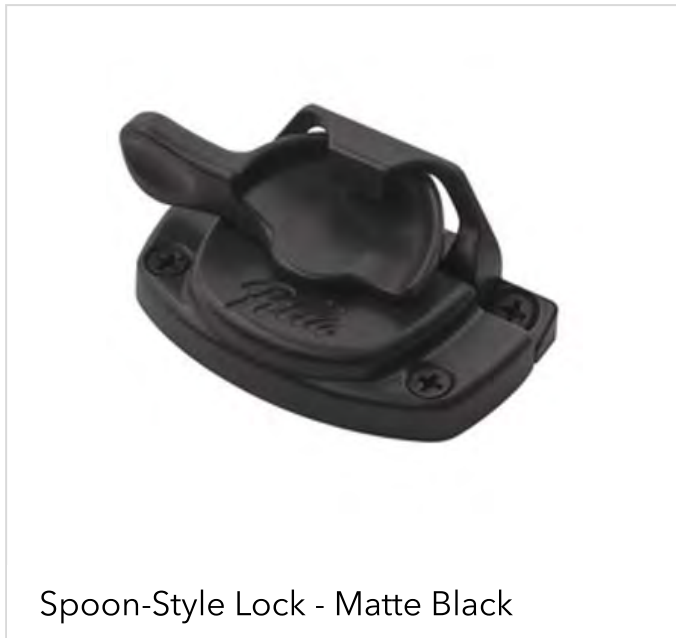
strength 70% fluoropolymer resin finishes can deliver. Meets the performance requirements of AAMA 2605.

## STYLING YOUR WINDOW

### HARDWARE

Pella's hardware styles are available in today's most popular finishes.

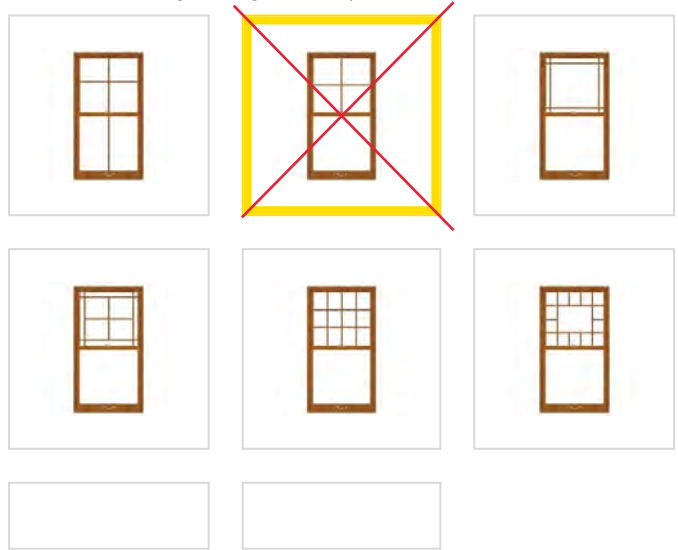
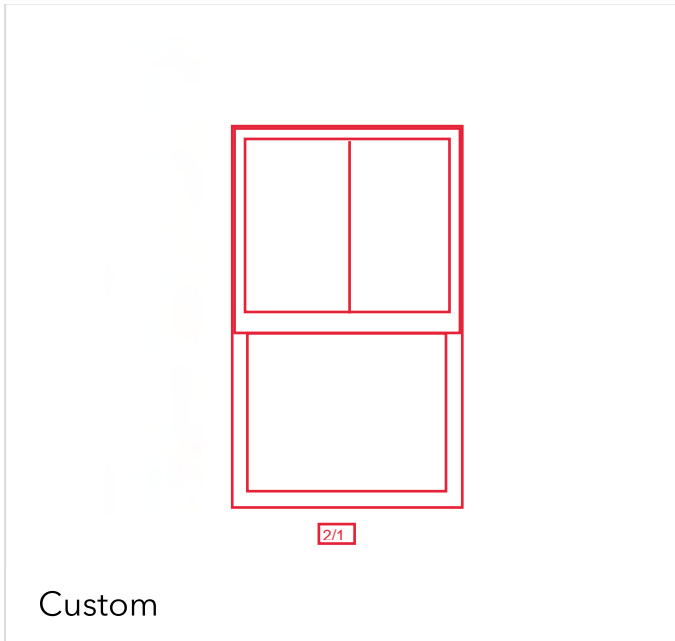
Classic Collection   Rustic Collection   Essential Collection



### GRILLE PATTERNS

Grilles give the appearance of individual windowpanes. Pella offers many grille patterns to help enhance your home's architectural style.





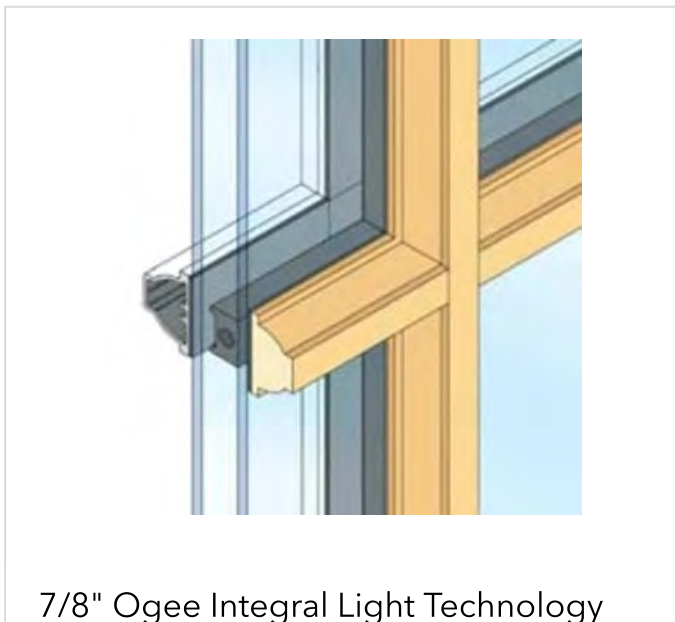
### GRILLE PROFILES

For the classic look of individual windowpanes, choose grilles-between-the-glass, removable roomside grilles or Integral Light Technology Grilles. [Learn more about grilles.](#)

Integral Light Technology® Grilles

Removable Roomside Wood Grilles

Grilles-Between-the-Glass



For Pros





Product Selection Guide

- Size and Performance Data ..... DH-2
- STC/OITC ..... DH-2
- Features and Options ..... DH-3

Combination Assemblies ..... DH-4

Glazing Performance ..... DH-6

Impact-Resistant Glazing ..... DH-11

Grille Types

- Grille Profiles ..... DH-12
- Grille Patterns ..... DH-13

Size Tables for Double- and Single-Hung ..... DH-14

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- Replacement Sizes ..... DH-18

Design Data

- Special Sizes and Miscellaneous Formulas ..... DH-22
- Luxury Edition (LX) and Style Edition (SE) ..... DH-23
- Replacement Sizes ..... DH-28

Detailed Product Descriptions

- Clad Exterior LX and SE Double-, Single- and Simulated-Hung ..... DH-33
- Wood Exterior LX Double-, Single and Simulated Hung ..... DH-34

Unit Sections/Typical Joining Mullions

- Double-Hung Clad LX ..... DH-35
- Double-, and Single-Hung Clad LX ..... DH-36
- Double-Hung Clad SE ..... DH-37
- Fixed and Transoms ..... DH-38
- Double- and Single-Hung Wood LX ..... DH-39

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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.



# Architect Series® Traditional Hung Window

## Size and Performance Data

	Clad LX	Wood LX	Clad SE
<b>Sizes</b>			
Standard double-hung vent/fixed sizes	●	●	●
Transom sizes	●	●	●
Egress sizes	●	●	●
Single-hung	●	●	–
Simulated-hung	●	●	–
Single-hung – arch head	●	●	–
Cottage sash split	●	●	●
Variable sash split	●	●	–
Special sizes available	●	●	●
<b>Performance <sup>1</sup></b>			
Meets or Exceeds AAMA/WDMA Ratings	H-CW30 - CW50 Hallmark Certified	H-CW30 - CW45 Hallmark Certified	H-CW30 - CW50 Hallmark Certified
Air Infiltration (cfm/ft <sup>2</sup> of frame @ 1.57 psf wind pressure) <sub>2</sub>	0.11	0.11	0.11
Water Resistance	4.6 - 7.5 psf	4.6 - 6.9 psf	4.6 - 7.5 psf
Design Pressure	30 - 50 psf	30 - 45 psf	30 - 50 psf
Products with Impact-resistant Glass	CW - 60 Hallmark Certified	–	–
<b>Other Performance Criteria</b>			
Forced Entry Resistance Level (Minimum Security Grade) <sub>3</sub>	10	10	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) <sub>4</sub>	40/45	40/45	40/45

### Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested <sub>5</sub>	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
<b>Architect Series Wood LX window</b>	<b>WITH INTEGRAL GRILLES</b>						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	27	24
	45" x 65"	11/16"	3 mm	6 mm Laminated	–	34	29
	<b>WITH REMOVABLE OR NO GRILLES</b>						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	26	22
	45" x 65"	11/16"	3 mm	3 mm	–	29	24
<b>Architect Series Clad LX or SE window</b>	<b>WITH INTEGRAL GRILLES</b>						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	27	25
	45" x 65"	11/16"	3 mm	3 mm	–	29	25
	45" x 65"	11/16"	3 mm	5 mm	–	33	29
	45" x 65"	11/16"	3 mm	6 mm Laminated	–	34	29
	<b>WITH REMOVABLE OR NO GRILLES</b>						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	26	22
	45" x 65"	11/16"	3 mm	3 mm	–	28	23
	45" x 65"	11/16"	3 mm	5 mm	–	32	28
	45" x 65"	11/16"	3 mm	6 mm Laminated	–	33	28

(–) = Not Available

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values.

(2) Published performance data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless noted. Actual product performance may vary for a number of reasons including installation and product care.

(3) The higher the level, the greater the product's ability to resist forced entry.

(4) Glazing configurations may result in higher operational forces

(5) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.





# Architect Series® Traditional Hung Window

## Features and Options

Standard	Options / Upgrades
<b>Glazing</b>	
<b>Glazing Type</b>	
Dual-Pane Insulating Glass	–
<b>Insulated Glass Options/Low-E Types</b>	
Advanced Low-E	SunDefense™ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	Clear (no Low-E coating)
<b>Additional Glass Options</b>	
Annealed Glass	Tempered Glass
	Obscure Glass <sup>1</sup>
	Tinted Glass (Bronze, Gray and Green)
	Impact-Resistant Glass (Laminated Dual-Pane Insulating Glass <sup>2</sup> )
<b>Gas Fill/High Altitude</b>	
Argon	High altitude
<b>Wood types</b>	
Pine	Mahogany (clad and wood LX only), Douglas Fir (clad LX only)
<b>Exterior<sup>1</sup></b>	
EnduraClad® protective finish	EnduraClad Plus protective finish
	Factory Primed Pine wood exterior
	Unfinished Mahogany wood exterior
<b>Interior</b>	
Unfinished Wood	Factory primed <sup>3</sup> , Factory prefinished paint <sup>3</sup> , Factory prefinished stain
<b>Hardware</b>	
<b>Hardware Finish</b>	
Champagne, White, Brown or Matte Black	Bright Brass, Satin Nickel, Oil-Rubbed Bronze, Antique Brass, Distressed Bronze, Distressed Nickel
<b>Sash Locks</b>	
Cam-action lock	Simulated lock, Air conditioner lock, Historical spoon-style lock (surface mounted)
<b>Tilt-Wash Cleaning</b>	
Tilt to interior on both sashes	–
<b>Other Hardware</b>	
–	Sash lifts
<b>Grilles</b>	
<b>Integral Light Technology® Grilles</b>	
–	Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom
<b>Roomside Removable Grilles</b>	
–	Traditional, Prairie, Custom
<b>Grilles-Between-the-Glass</b>	
–	Traditional, Prairie, Top Row <sup>1</sup> , Cross or Custom-Equally Divided
<b>Screens</b>	
–	Full-Height or Half-height InView™ screens or Vivid View® screens

(1) Contact your local Pella sales representative for current color options.

(2) Low-E coatings are limited on Laminated Glass, see detailed product description or glazing performance for full details.

(3) Not available on Mahogany and Douglas Fir interiors.



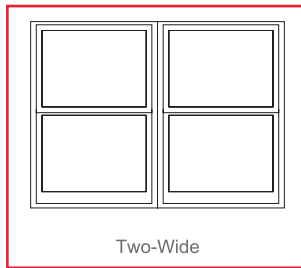
# Architect Series® Traditional Hung Window

## Combinations

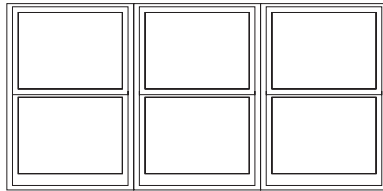
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullered together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Some units can be fixed or vent depending on availability. Refer to Clad/Wood Overview Section for typical combinations requirements, and limitations related to mulling various combinations.

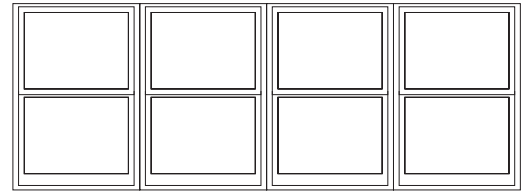
Contact your local Pella sales representative for more information.



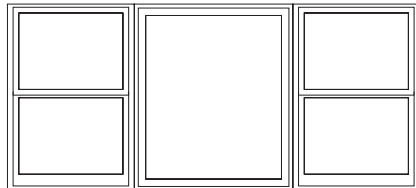
Two-Wide



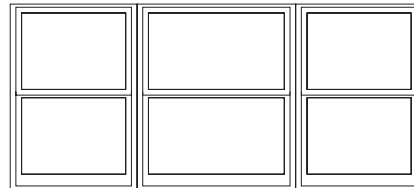
Three-Wide Equal



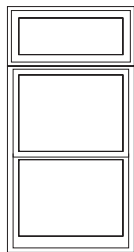
Four-Wide Equal



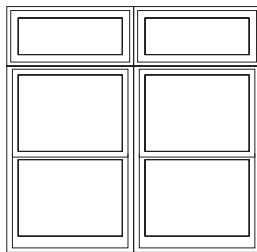
Center Fixed with Flankers



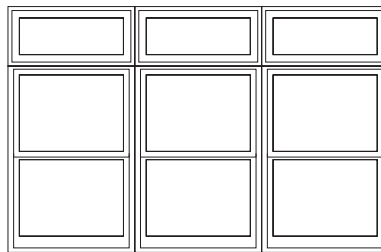
Three-Wide Unequal



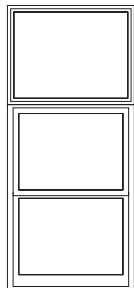
Transom over Single



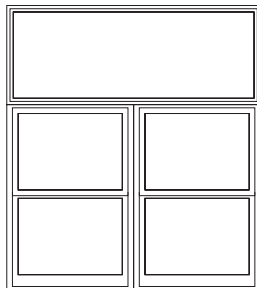
Two-Wide Transoms over Two-Wide



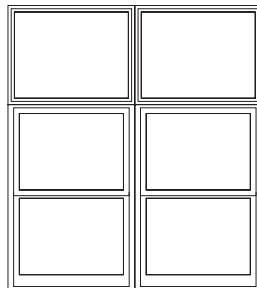
Three-Wide Transoms over Three-Wide



Clad Frame over Single



Single Clad Frame over Two-Wide



Two Wide Clad Frame over Two-Wide



Click to view Clad-Wood Combinations Sections

• [Combination Recommendations Downloadable PDF.](#)





# Architect Series® Traditional Hung Window

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown				
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sup>2</sup>
										Zone				ER
<b>Vent Dual-Pane Glazing - Aluminum-Clad Exterior</b>										N	NC	SC	S	CA
11/16"	Clear IG	PEL-N-232-00217-00001	2.5	2.5	Air	0.46	0.59	0.62	44					
	with grilles-between-the-glass	PEL-N-232-00218-00001				0.46	0.53	0.55	44					
	with integral grilles	PEL-N-232-00219-00001				0.46	0.53	0.55	44					
11/16"	Clear IG	PEL-N-232-00221-00001	3	3	Air	0.46	0.58	0.61	44					
	with grilles-between-the-glass	PEL-N-232-00222-00001				0.46	0.52	0.54	44					
	with integral grilles	PEL-N-232-00223-00001				0.46	0.52	0.54	44					
11/16"	Advanced Low-E IG	PEL-N-232-00253-00001	2.5	2.5	Argon	0.29	0.28	0.53	60		NC			
	with grilles-between-the-glass	PEL-N-232-00254-00001				0.29	0.25	0.47	60		NC	SC	S	
	with integral grilles	PEL-N-232-00255-00001				0.29	0.25	0.47	60		NC	SC	S	
11/16"	Advanced Low-E IG	PEL-N-232-00257-00001	3	3	Argon	0.29	0.28	0.52	59		NC			
	with grilles-between-the-glass	PEL-N-232-00258-00001				0.29	0.25	0.46	59		NC	SC	S	
	with integral grilles	PEL-N-232-00259-00001				0.29	0.25	0.46	59		NC	SC	S	
11/16"	SunDefense™ Low-E IG	PEL-N-232-00301-00001	2.5	2.5	Argon	0.28	0.21	0.49	60		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00302-00001				0.28	0.19	0.43	60		NC	SC	S	
	with integral grilles	PEL-N-232-00303-00001				0.29	0.19	0.43	60		NC	SC	S	
11/16"	SunDefense™ Low-E IG	PEL-N-232-00305-00001	3	3	Argon	0.28	0.21	0.48	60		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00306-00001				0.28	0.19	0.43	60		NC	SC	S	
	with integral grilles	PEL-N-232-00307-00001				0.29	0.19	0.43	60		NC	SC	S	
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00277-00001	2.5	2.5	Argon	0.25	0.27	0.51	49	N	NC			
	with grilles-between-the-glass	PEL-N-232-00278-00001				0.25	0.25	0.46	49	N	NC	SC	S	
	with integral grilles	PEL-N-232-00279-00001				0.26	0.25	0.46	49	N	NC	SC	S	
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00281-00001	3	3	Argon	0.25	0.27	0.51	48	N	NC			
	with grilles-between-the-glass	PEL-N-232-00282-00001				0.25	0.25	0.45	48	N	NC	SC	S	
	with integral grilles	PEL-N-232-00283-00001				0.26	0.25	0.45	48	N	NC	SC	S	
11/16"	NaturalSun Low-E IG	PEL-N-232-00229-00001	2.5	2.5	Argon	0.30	0.52	0.60	60	N				
	with grilles-between-the-glass	PEL-N-232-00230-00001				0.30	0.47	0.53	60	N				
	with integral grilles	PEL-N-232-00231-00001				0.30	0.47	0.53	60	N				
11/16"	NaturalSun Low-E IG	PEL-N-232-00233-00001	3	3	Argon	0.30	0.51	0.59	59	N				
	with grilles-between-the-glass	PEL-N-232-00234-00001				0.30	0.46	0.52	59	N				
	with integral grilles	PEL-N-232-00235-00001				0.30	0.46	0.52	59	N				
<b>Tinted Glazing</b>														
11/16"	Bronze Advanced Low-E IG	PEL-N-232-00325-00001	5	3	Argon	0.29	0.25	0.34	48		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00326-00001				0.31	0.22	0.30	48				S	
	with integral grilles	PEL-N-232-00327-00001				0.30	0.22	0.30	48		NC	SC	S	
11/16"	Gray Advanced Low-E IG	PEL-N-232-00333-00001	5	3	Argon	0.29	0.23	0.29	58		NC	SC	S	
	with grilles-between-the-glass	PEL-N-232-00334-00001				0.31	0.21	0.26	58				S	
	with integral grilles	PEL-N-232-00335-00001				0.30	0.21	0.26	58		NC	SC	S	
11/16"	Green Advanced Low-E IG	PEL-N-232-00341-00001	5	3	Argon	0.29	0.28	0.46	58		NC			
	with grilles-between-the-glass	PEL-N-232-00342-00001				0.31	0.25	0.25	58				S	
	with integral grilles	PEL-N-232-00343-00001				0.30	0.25	0.41	58		NC	SC	S	

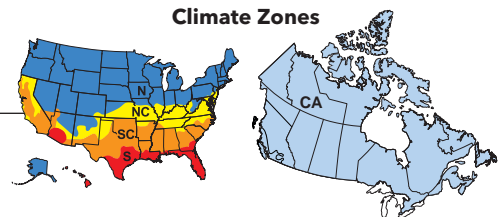
R-Value = 1/U-Factor  
 SHGC = Solar Heat Gain Coefficient  
 VLT % = Visible Light Transmission  
 CR = Condensation Resistance  
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

See the Product Performance section for more detailed information or visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.

Non Rectangular Unit thermal values will vary slightly.





# Architect Series® Traditional Hung Window

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sup>2</sup>		
										Zone				ER	Zone	
Vent Dual-Pane High Altitude Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA		
11/16"	Advanced Low-E IG	PEL-N-232-00265-00001	2.5	2.5	Air	0.32	0.28	0.53	56							
	with grilles-between-the-glass	PEL-N-232-00265-00001				0.32	0.25	0.47	56				S			
	with integral grilles	PEL-N-232-00267-00001				0.33	0.25	0.47	56				S			
11/16"	Advanced Low-E IG	PEL-N-232-00269-00001	3	3	Air	0.32	0.28	0.52	55							
	with grilles-between-the-glass	PEL-N-232-00270-00001				0.32	0.25	0.46	55				S			
	with integral grilles	PEL-N-232-00271-00001				0.33	0.25	0.46	55				S			
11/16"	SunDefense Low-E IG	PEL-N-232-00313-00001	2.5	2.5	Air	0.32	0.21	0.49	57				S			
	with grilles-between-the-glass	PEL-N-232-00314-00001				0.32	0.19	0.43	57				S			
	with integral grilles	PEL-N-232-00315-00001				0.33	0.19	0.43	57				S			
11/16"	SunDefense Low-E IG	PEL-N-232-00317-00001	3	3	Air	0.32	0.21	0.48	56				S			
	with grilles-between-the-glass	PEL-N-232-00318-00001				0.32	0.19	0.43	56				S			
	with integral grilles	PEL-N-232-00319-00001				0.33	0.19	0.43	56				S			
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00289-00001	2.5	2.5	Air	0.27	0.28	0.51	45	N	NC					
	with grilles-between-the-glass	PEL-N-232-00290-00001				0.27	0.25	0.46	45	N	NC	SC	S			
	with integral grilles	PEL-N-232-00291-00001				0.28	0.25	0.46	45		NC	SC	S			
11/16"	AdvancedComfort Low-E IG	PEL-N-232-00293-00001	3	3	Air	0.28	0.27	0.51	44		NC					
	with grilles-between-the-glass	PEL-N-232-00294-00001				0.28	0.25	0.45	44		NC	SC	S			
	with integral grilles	PEL-N-232-00295-00001				0.28	0.25	0.45	44		NC	SC	S			
11/16"	NaturalSun Low-E IG	PEL-N-232-00241-00001	2.5	2.5	Air	0.33	0.52	0.60	56							
	with grilles-between-the-glass	PEL-N-232-00242-00001				0.33	0.47	0.53	56							
	with integral grilles	PEL-N-232-00243-00001				0.34	0.47	0.53	56							
11/16"	NaturalSun Low-E IG	PEL-N-232-00245-00001	3	3	Air	0.33	0.51	0.59	55							
	with grilles-between-the-glass	PEL-N-232-00246-00001				0.33	0.46	0.52	55							
	with integral grilles	PEL-N-232-00247-00001				0.34	0.46	0.52	55							

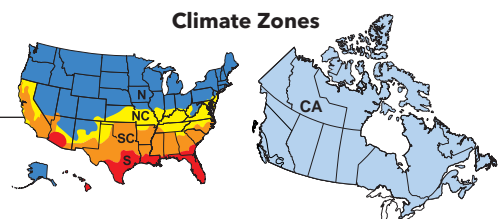
R-Value = 1/U-Factor  
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 VLT % = Visible Light Transmission  
 CR = Condensation Resistance  
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

See the Product Performance section for more detailed information or visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.

Non Rectangular Unit thermal values will vary slightly.







# Architect Series® Traditional Hung Window

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sup>1</sup>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.				Canada <sup>2</sup>		
										Zone				ER	Zone	
Vent - Laminated Impact-Resistant Glass										N	NC	SC	S	CA		
13/16"	Clear IG	PEL-N-235-00601-00001	3	8	Air	0.44	0.51	0.55	44							
	with grilles-between-the-glass	PEL-N-235-00602-00001				0.44	0.45	0.49	44							
	with integral grilles	PEL-N-235-00603-00001				0.44	0.45	0.49	44							
13/16"	Advanced Low-E IG	PEL-N-235-00721-00001	3	8	Argon	0.28	0.25	0.47	59		NC	SC	S			
	with grilles-between-the-glass	PEL-N-235-00722-00001				0.29	0.23	0.41	59		NC	SC	S			
	with integral grilles	PEL-N-235-00723-00001				0.29	0.23	0.41	59		NC	SC	S			
13/16"	SunDefense™ Low-E IG	PEL-N-235-00897-00001	3	8	Argon	0.28	0.19	0.43	59		NC	SC	S			
	with grilles-between-the-glass	PEL-N-235-00898-00001				0.29	0.17	0.38	59		NC	SC	S			
	with integral grilles	PEL-N-235-00899-00001				0.29	0.17	0.38	59		NC	SC	S			
Tinted Laminated Impact-Resistant Glass																
13/16"	Bronze Advanced Low-E IG	PEL-N-235-00769-00001	5	8	Argon	0.31	0.23	0.19	57					S		
	with grilles-between-the-glass	PEL-N-235-00770-00001				0.32	0.21	0.16	56					S		
	with integral grilles	PEL-N-235-00771-00001				0.32	0.21	0.16	56					S		
13/16"	Gray Advanced Low-E IG	PEL-N-235-00801-00001	5	8	Argon	0.31	0.24	0.24	57					S		
	with grilles-between-the-glass	PEL-N-235-00802-00001				0.32	0.21	0.21	57					S		
	with integral grilles	PEL-N-235-00803-00001				0.32	0.21	0.21	57					S		
13/16"	Green Advanced Low-E IG	PEL-N-235-00833-00001	5	8	Argon	0.31	0.24	0.38	57					S		
	with grilles-between-the-glass	PEL-N-235-00834-00001				0.32	0.22	0.34	56					S		
	with integral grilles	PEL-N-235-00835-00001				0.32	0.22	0.34	57					S		

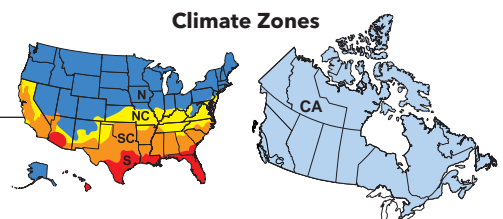
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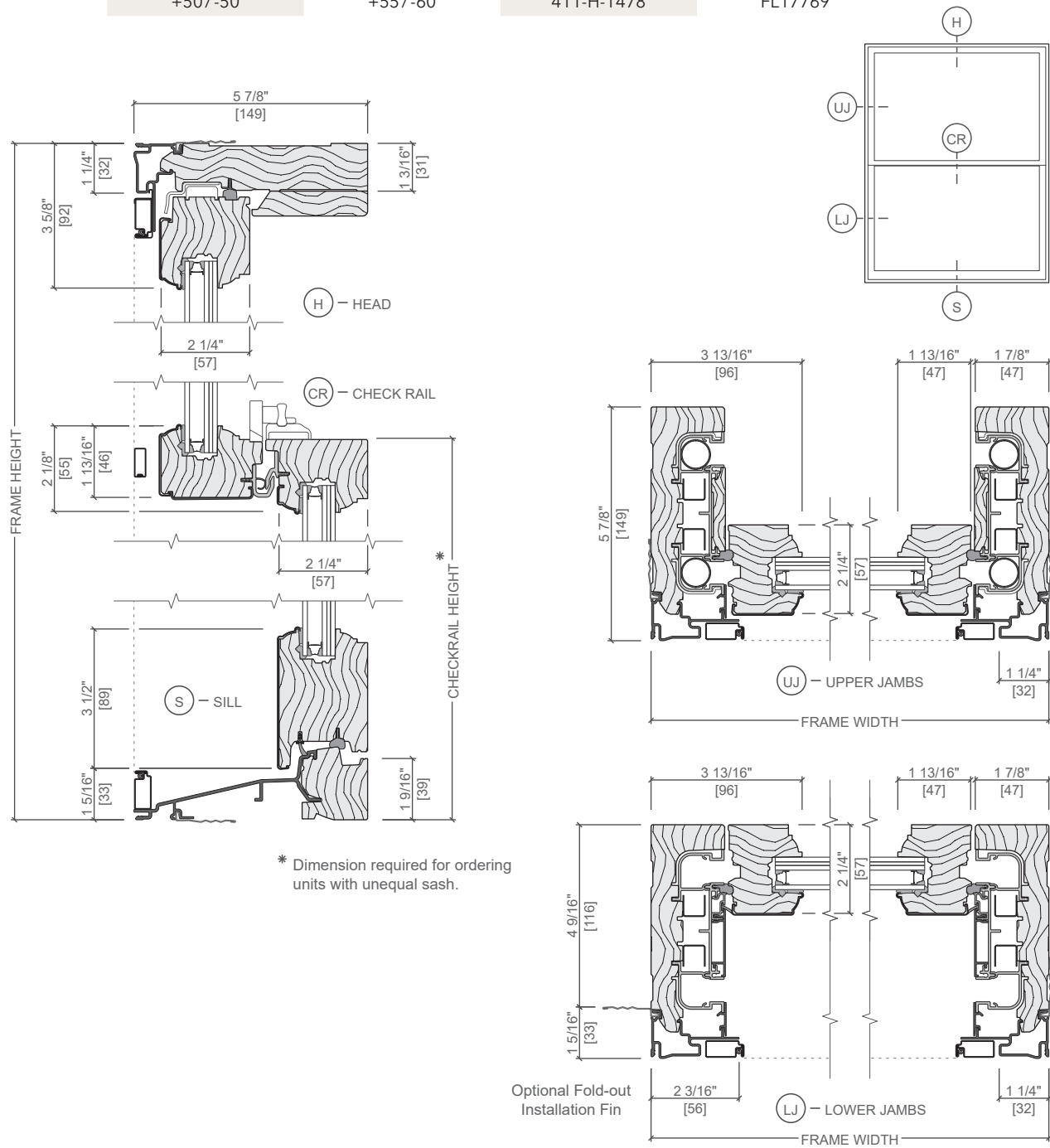


# Architect Series® Traditional Hung Window

## Products with Impact-Resistant Glass

For a complete list of ratings, refer to the Impact-Resistant product section.

Material	Design Pressure Large Missile Rating D		Hallmark Certified	Florida Product Approval System
	Minimum	Maximum		
PVB				
Clad	+50/-50	+55/-60	411-H-1478	FL17769



Click to view Impact-Resistant Section

[Double-Hung Downloadable PDF](#)

(1) All impact sizes and glass types are certified for wind zone 3, large missile rating D. Not approved for use in Miami-Dade County.



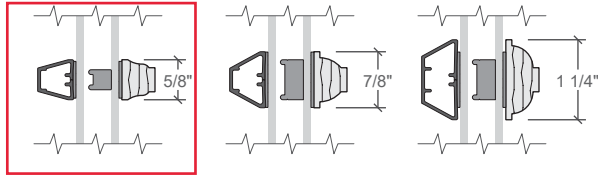


# Architect Series® Traditional Hung Window

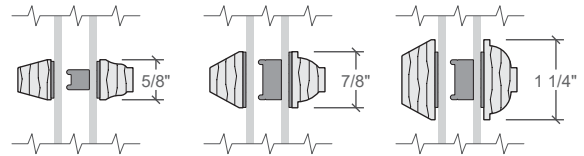
## Grille Profiles

### Integral Light Technology®

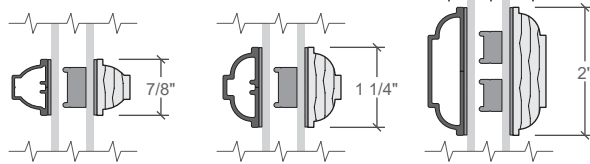
Putty and Ogee Glaze Grilles  
Clad Exterior - Wood Interior



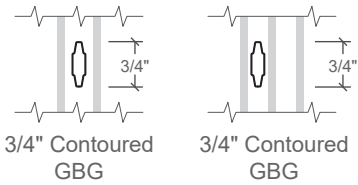
Putty and Ogee Glaze Grilles  
Wood Exterior - Wood Interior



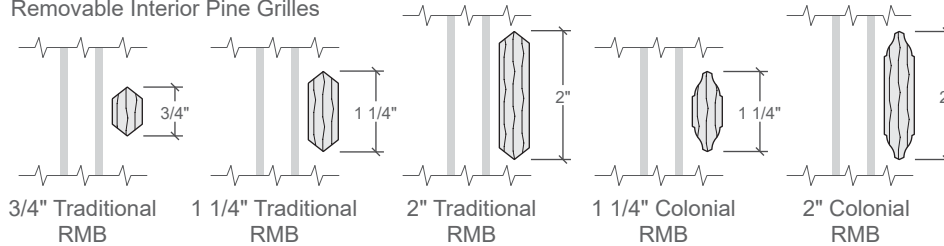
Ogee Glaze Grilles  
Clad Exterior - Wood Interior



Contoured Aluminum -  
Grilles-Between-the-Glass



Removable Interior Pine Grilles



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

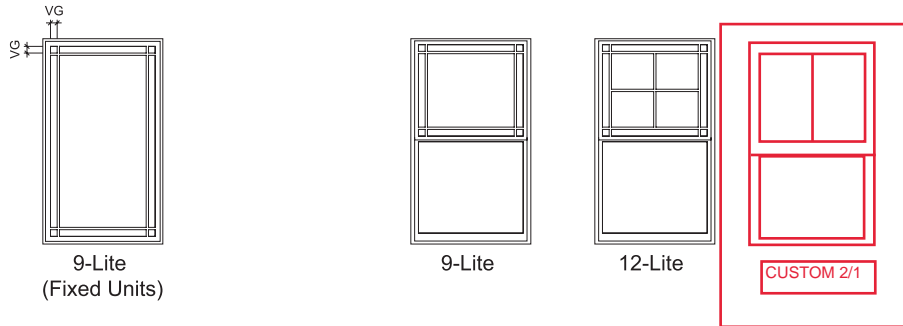


# Architect Series® Traditional Hung Window

## Grille Patterns

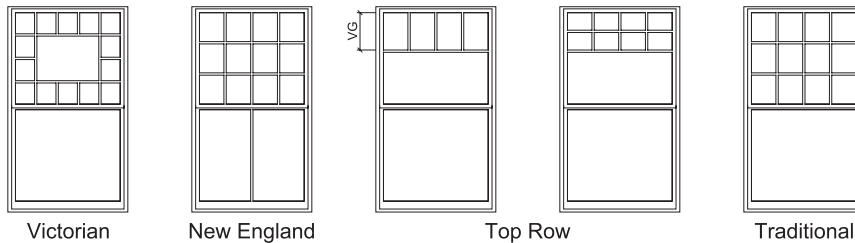
### Integral light technology® Grilles and Roomside Removable Grilles

#### Prairie Lite Patterns



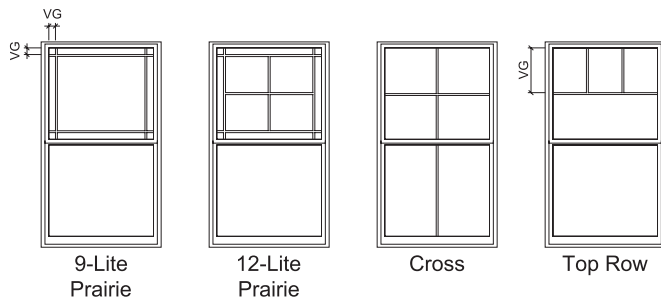
Standard corner lite dimension for Prairie patterns = 2-1/2" VG.  
 Available in transoms ≥ 1'3" height and width.  
 Available in all standard and special sizes.

#### Other Available Patterns



VG = Visible Glass  
 Lite dimensions noted can vary.  
 For size and pattern availability contact your local Pella sales representative.

### Grilles-Between-the-Glass



**Prairie**  
 - Standard corner lite dimension for Prairie patterns = 2-1/2" VG.  
 - Available in transoms ≥ 1'3" height and width.

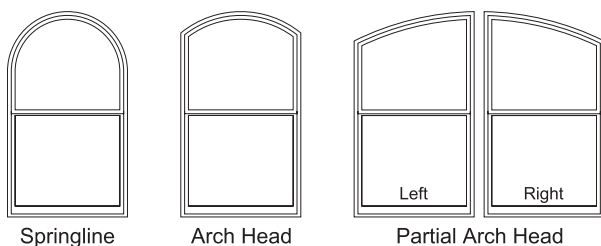
**Cross**  
 - Minimum DH frame height 35".  
 - Horizontal bar will be at 1/2" of the VG height of the top sash.

**Top Row**  
 - Minimum DH frame height 35".  
 - Horizontal bar will be at 1/2" of the VG height of the top sash.

For traditional patterns, see size tables.

### Custom shapes

Pella Reserve single-hung windows are available in custom shapes shown below, and additional shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.







# Architect Series® Traditional Hung Window

## Detailed Product Description - Aluminum-Clad Exterior

### Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [LX: [clear pine] [mahogany] [douglas fir]] [SE: clear pine].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) wall depths.
- Vinyl jamb liner [LX includes wood / clad inserts].
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

### Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [LX: [clear pine] [mahogany] [douglas fir]] [SE: clear pine].
- Exterior surfaces are clad with aluminum and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Sash exterior and interior profile is ogee.
- Double-Hung: Upper sash has surface-mounted wash locks [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.

### Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

### Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed 1 1/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced Low-E] [SunDefense™ Low-E] [Advanced Comfort] [NaturalSun Low-E] with argon]] [[bronze] [gray] [green] Advanced Low-E with argon].

### Exterior

- Aluminum-clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
  - Color is [standard] [custom]<sub>1</sub>.
- Aluminum-clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish
  - Color is [standard] [custom]<sub>1</sub>.

### Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [paint] [stain] <sub>1</sub>].

### Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed, lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Bright Brass] [Satin Nickel] [Oil-rubbed Bronze] [Antique Brass] [Distressed Bronze] [Distressed Nickel].

### Optional Products

#### Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [LX: [pine] [mahogany] [douglas fir]] [SE: pine]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain] <sub>1</sub>].
  - Exterior grilles are [5/8" putty glaze profile] [7/8" [putty glaze] [ogee] profile] [1-1/4" [putty glaze] [ogee] profile] [2" ogee profile] that are extruded aluminum.
  - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.

- or -

#### Grilles-Between-the-Glass<sub>2</sub>

- Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
- Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
- Interior color is [White] [Tan<sub>3</sub>] [Brown<sub>3</sub>] [Putty<sub>3</sub>] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
- Exterior color<sub>5</sub> is [standard]<sub>1</sub>.

- or -

#### Roomside Removable grilles

- [[3/4"] [1-1/4"] [2"] regular] [[1-1/4"] [2"] colonial] profile, with [Traditional] [Prairie] patterns that are removable solid pine wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
- Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain] <sub>1</sub>].
- Exterior [unfinished, ready for site finishing] [factory primed] [finish color matched to exterior cladding]<sub>5</sub>.

#### Screens

- InView™ screens
  - [Half-Size] [Full-Size<sub>4</sub>] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Full screen spreader bar placed on units > 37" width or > 65" height.
  - Insect screen frame finish is baked enamel, color to match window cladding.
- Vivid View® screens
  - [Half-Size] [Full-Size<sub>4</sub>] PVDF 21 / 17 mesh, minimum 78 percent light transmissive screen, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Full screen spreader bar placed on units > 37" width or > 65" height.
  - Insect screen frame finish is baked enamel, color to match window cladding.

- or -

#### Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device available. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Contact your local Pella sales representative for current designs and color options.

(2) Available on units glazed with Low-E insulated glass with argon, clear insulated glass and obscure insulated glass.

(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

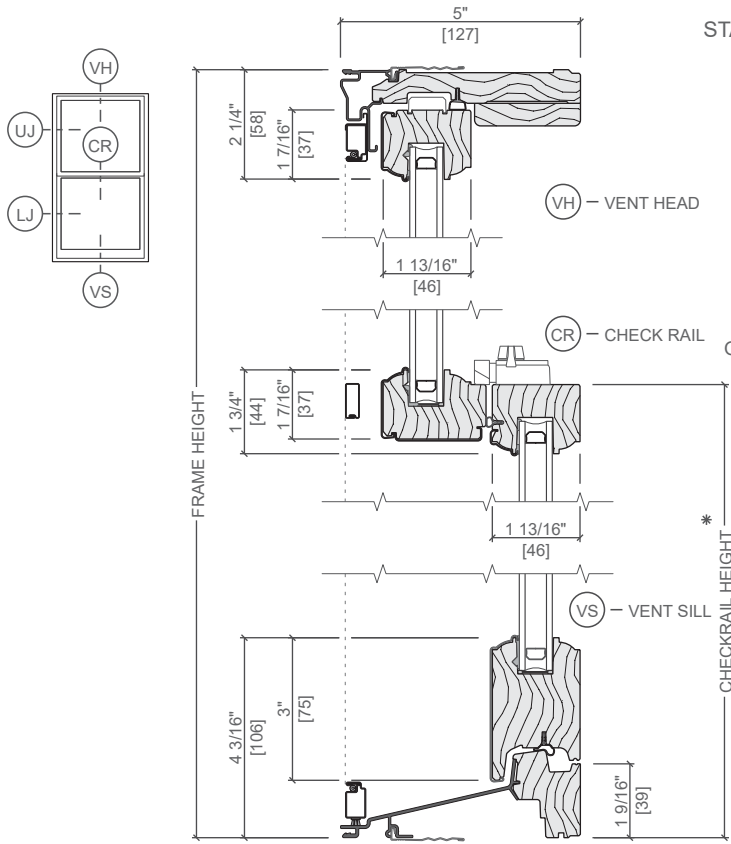
(4) Full screens are available on units ≤ 96" height.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.

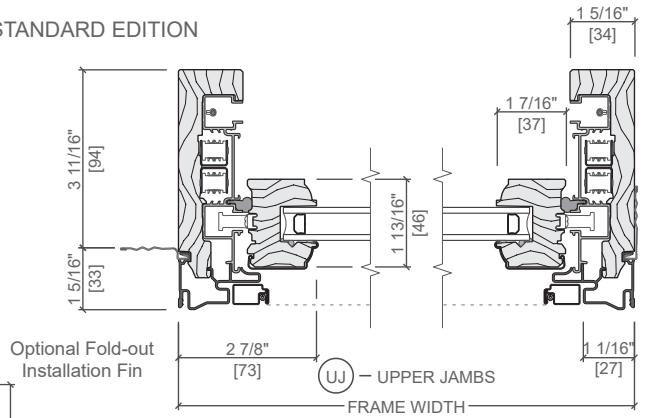


# Architect Series® Traditional Hung Window

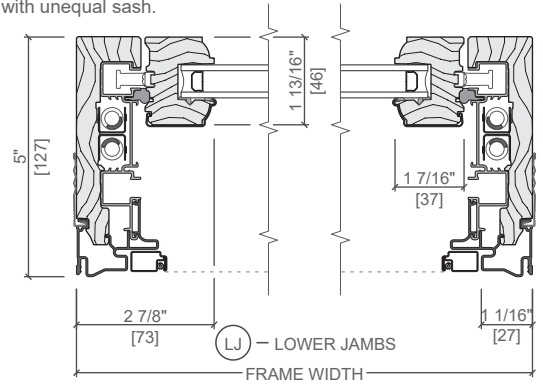
## SE Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



### STANDARD EDITION



\* Dimension required for ordering units with unequal sash.



Scale 3" = 1' 0"

All dimensions are approximate.

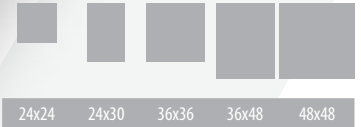


RED RECTANGLES DENOTE ARCHITECT'S SELECTIONS



# FLAT ROOF SKYLIGHTS AND HATCHES

## **DXW** - walkable skylight

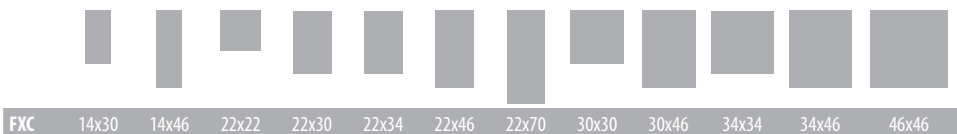


## **FXC** CURB MOUNTED FIXED SKYLIGHT

- Infinity glass - virtually seam-free flat surface
- 360-degree orientation on sloped or flat roof
- A modern, trouble-free design helps with water run-off.
- White finished, PVC frame interior
- Internal and external accessories available before or after skylight's installation.
- Suitable for roof with a pitch between 0-60 degrees

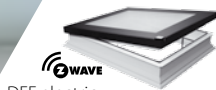


FXC

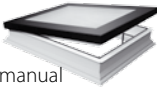




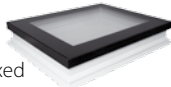
INVITE  
THE LIGHT



DEF electric



DMF manual



DXF fixed

## FLAT ROOF WINDOWS TYPE F

- An abundance of natural light. The window's profile have a secure glazing area that is up to 16% greater than those of competitors.
- The frame of the flat roof window is constructed from multi-chamber PVC profiles filled with insulating material.
- The external glass is laminated reflecting the sun rays while the internal pane is anti-burglary Class P2A.
- In addition to standard sizes, the type F window is available in custom sizes (from 24"x24" to 48"x87") to suit many retrofits.
- High energy-efficient DU6 triple-pane glazing (U-value=0.12 BTU/h<sup>2</sup>F) and DU8 quadruple-pane glazing (U-value=0.11 BTU/h<sup>2</sup>F) to choose from.
- Windows can be fitted with internal and external blinds to ensure shade and protect interiors from overheating.

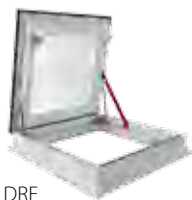


DEF, DMF, DXF	22x22	22x30	22x46	30x30	46x46
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## FLAT ROOF ACCESS SKYLIGHT DRF

- Energy-efficient design using DU6 triple-pane glazing and insulated, multi-chamber PVC frame to achieve low U-value=0.13 BTU/h<sup>2</sup>F.
- Safe and convenient access to a flat roof. Specially-designed hinges and a gas springs keep the window open at 80 degrees.
- An anti-slip coating covers the exterior of the window for safe access to the flat roof.
- Excellent soundproofing performance
- Flat glass is impact resistant for durability.
- Window can be fitted with internal and external blinds to ensure shade and protect interiors from overheating.



DRF

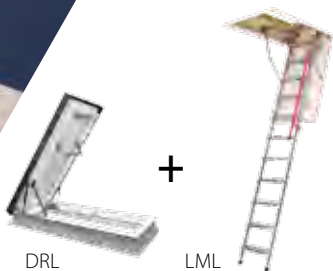


DRF	30x30	30x36	36x36	36x48
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## ROOF HATCH DRL

- Energy-efficient design with insulated door and frame delivers U factor = 0.12 BTU/h<sup>2</sup>F
- Available sizes can be combined with FAKRO attic ladders for invisible access to the flat roof.
- Insulated, multi-chamber, PVC frame with a high-performance seal ensure the hatch is suitable for energy-efficient projects in a variety of climates.
- Gas spring-assisted opening stays open at 80 degrees.
- An anti-slip surface covers the base for safe access to the flat roof.



DRL

LML



DRL	30x30	30x36	36x36	27 1/2 x 61 1/2
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*elements of*  
**OUTDOOR  
STYLE**

RED RECTANGLES DENOTE  
ARCHITECT'S SELECTIONS





featuring: Enhance Naturals in Foggy Wharf and Transcend Railing



STYLE  
PERMEATES  
EVERY  
HOME.

And at Trex, we believe yours is meant to extend beyond its threshold. That's why we offer a variety of decking and railing collections, furniture and features, so that every family and every budget can experience the warm feeling of belonging. Find that in the pages ahead and then make the *Trex® decision that's right for you™*.



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*of*  
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Embrace color with durable, eco-friendly collections of decking.

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Frame your view with long-lasting railing for all tastes and budgets.

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Mind the particulars of relaxing and entertaining.

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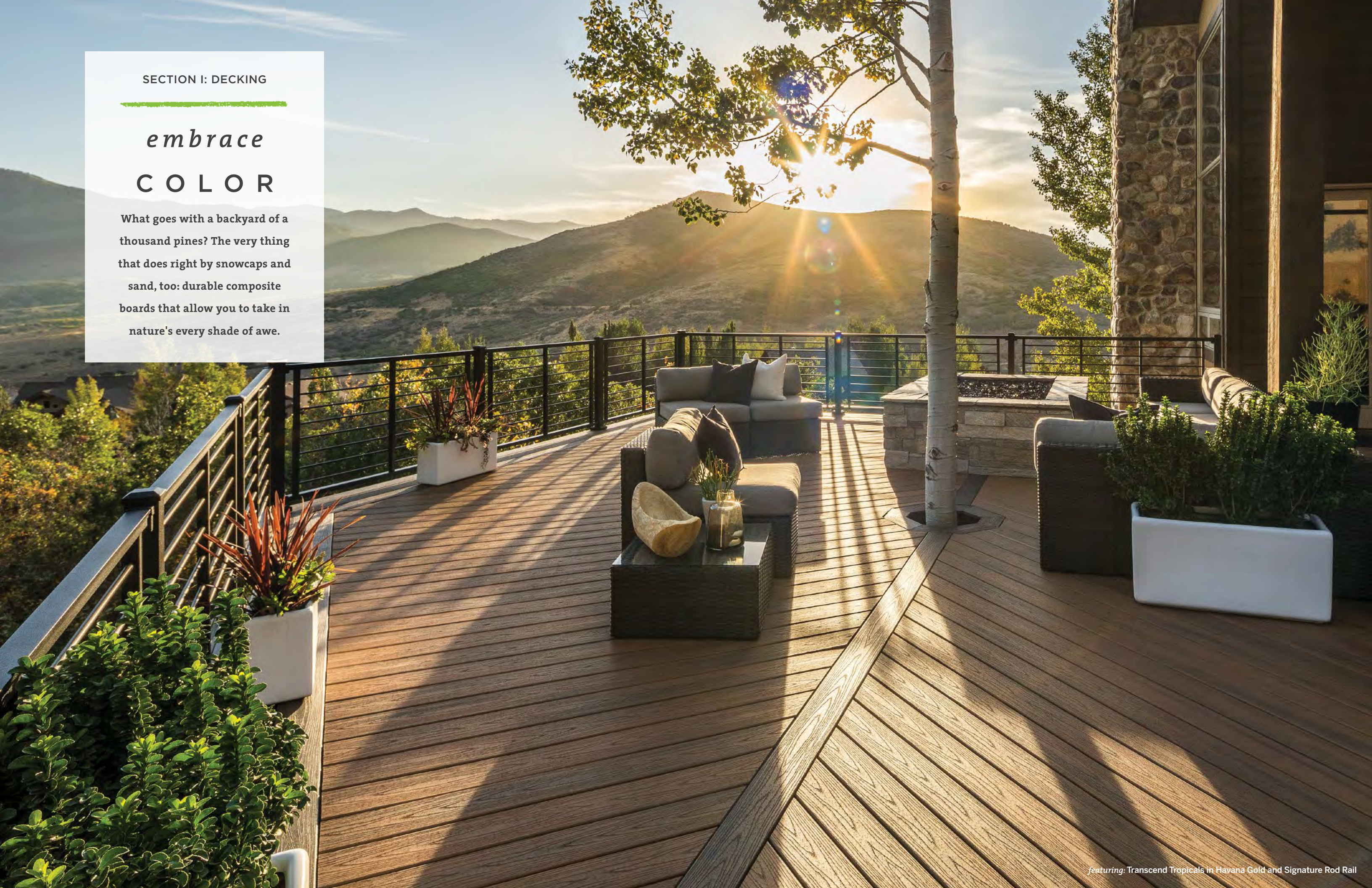




SECTION I: DECKING

*embrace*  
C O L O R

What goes with a backyard of a thousand pines? The very thing that does right by snowcaps and sand, too: durable composite boards that allow you to take in nature's every shade of awe.

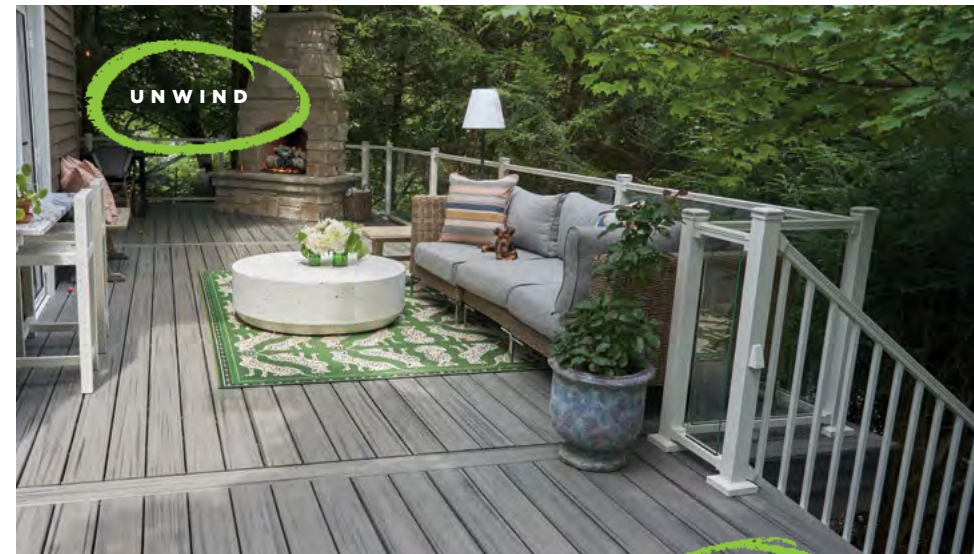




*In her*  
ELEMENT



DINE



UNWIND



GATHER



COOK

tastemaker  
EVETTE RIOS

Enjoying the languid pace of home is not something that lifestyle expert, writer, designer and TV personality Evette Rios takes lightly. So when it came to expanding the Pocono Mountains retreat that she shares with her husband, Stephen, and her two sons, Yago and Rex, the Jane-of-all-trades knew she wanted an outdoor room that not only reflected her colorful personality, but required little of her time when it came to maintenance. Here the style guru shares the ins and outs of her recent Trex deck build.

**How did you come to choose Trex for your project?**

I try to use sustainable and environmentally friendly products for my home whenever possible. Trex decking was the ideal solution because it is extremely durable and almost completely made of recycled content.

**Which Trex decking product did you use?**

I chose Trex Transcend in Island Mist. I love it because it has a silvery aged look that works well with the old barn wood around our property. We also used Trex Signature® railing with glass panels, which allowed us to have an uninterrupted view of the trees and visiting birds.

**Did anything about Trex surprise you?**

I was unsure if it would look like real wood, but Transcend decking looks entirely realistic with its streaks and color variations.

**How are you using your outdoor space?**

We eat our meals out there, we play out there, and we cook out there, too. Plus, there's a hot tub and a fireplace, so we are spending a lot of time on our Trex deck.

**Featured in photos**

Transcend Tropicals in Island Mist  
Signature Glass & Aluminum Railing  
Trex® Outdoor Kitchens™





# Trex Enhance®

## BASICS

PRICED TO PUT THE PRESSURE  
ON TREATED LUMBER

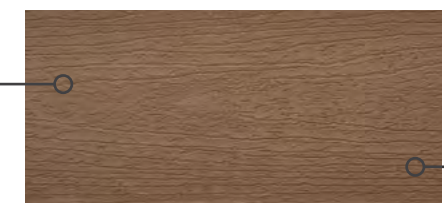
Trex has engineered cost out of the equation with our latest collection of easy-to-build, easy-to-maintain decking. Trex Enhance® Basics melds the durability of composite with the affordability of wood, resulting in long-lasting, worry-free decking.

### NEW DEPTHS

There's nothing monotonous about monochromatic color. This perch in *Saddle* showcases the universal appeal of earthy brown.

Perfect for DIYers:  
no specialty  
tools required

SHOWN IN SADDLE



No sanding,  
no sealing...ever

BOARD PROFILES

SQUARE  
EDGE

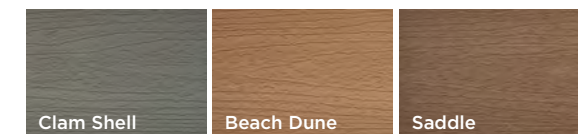


GROOVED  
EDGE



Lightweight,  
easy-to-handle  
scalloped boards

Use Trex Hideaway® Hidden  
Fastening System for a clean,  
fastener-free appearance

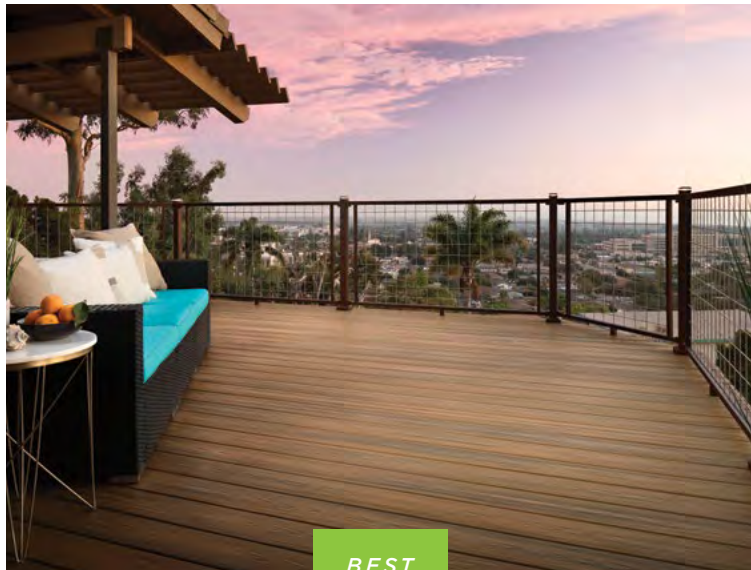


Clam Shell

Beach Dune

Saddle



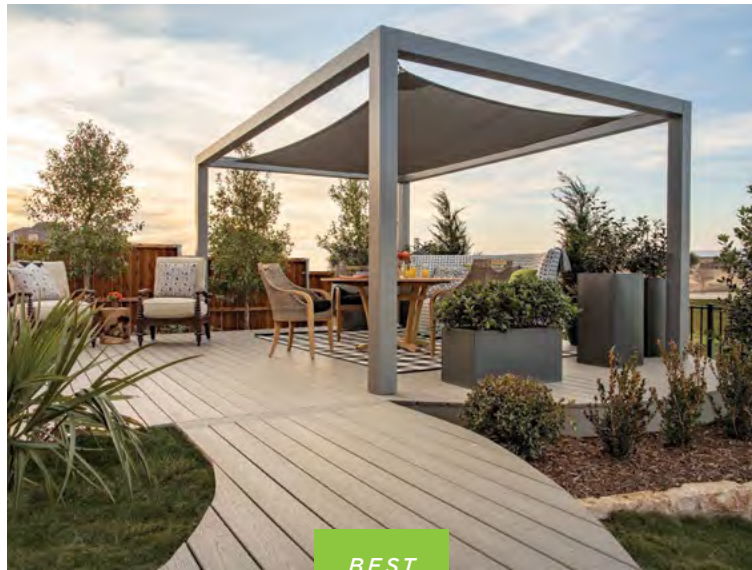
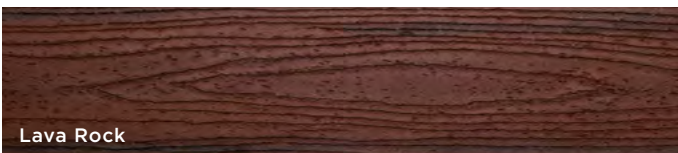


BEST

## Trex Transcend® TROPICALS

Elevated aesthetics paired with the highest level of performance.

\$\$\$ █ (25) ★★★★★

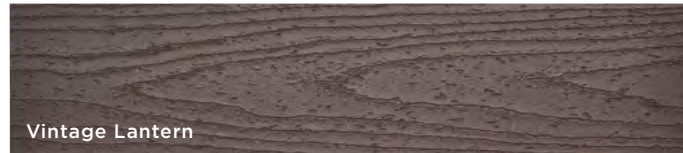


BEST

## Trex Transcend® EARTH TONES

A classic look for uncompromising homes.

\$\$\$ █ (25) ★★★★★

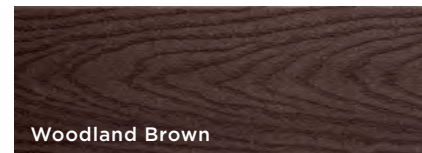
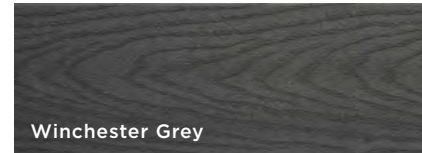
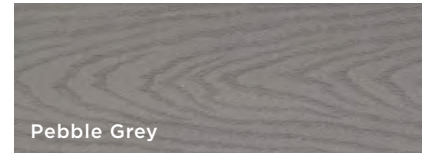


BETTER

## Trex Select® EARTH TONES

The perfect pairing of price and minimal maintenance.

\$\$ █ (25) ★★

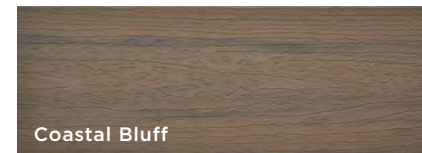
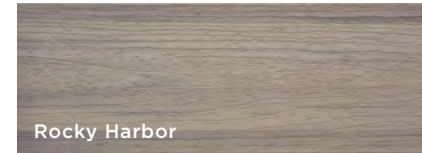
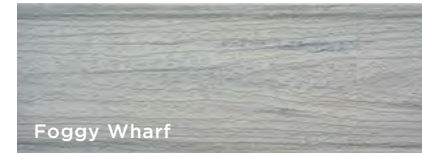


BETTER

## Trex Enhance® NATURALS

The beauty of wood with the ease of composite.

\$\$ █ (25) ★

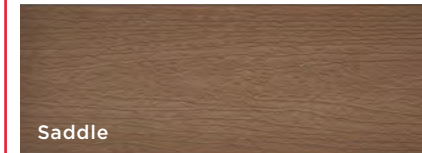
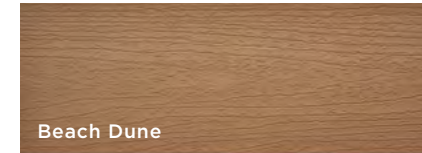
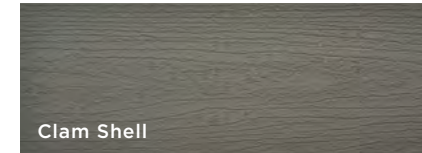


GOOD

## Trex Enhance® BASICS

Priced to put the pressure on treated lumber.

\$ █ (25) ★



Sample any and every color at [order.trex.com](https://order.trex.com)



# Why WOOD YOU?

Trading up from wood to Trex means ditching hours of annual upkeep that costs way more than you bargain for. Compare the qualities of our high-performance, Made-in-America boards to lumber and ask yourself: *can you afford not to choose Trex?*

## TREX WILL



Withstand sun, snow & sleet  
**HIGH-PERFORMANCE TECHNOLOGY**



Clean easily with soap & water  
**LOW-MAINTENANCE SHELL**



Let forestfuls of trees grow and grow  
**MADE OF 95% RECYCLED MATERIALS IN THE USA**



Make good on its promises  
**25-YEAR LIMITED RESIDENTIAL AND FADE & STAIN WARRANTIES**

## TREX WON'T



Rot, warp or splinter  
**UNLIKE WOOD**



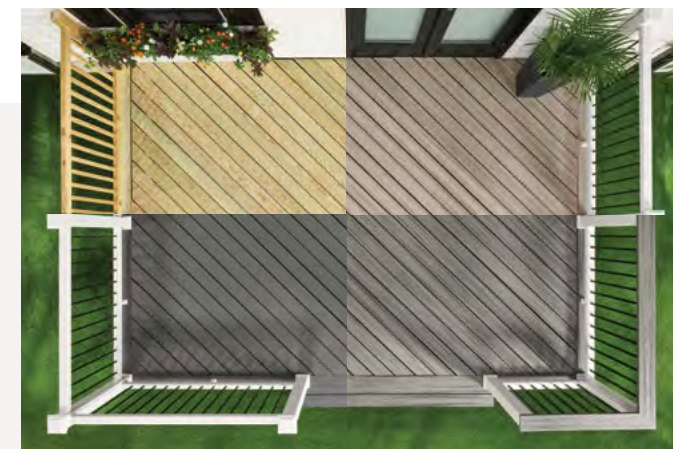
Need seasonal sealing or staining  
**UNLIKE WOOD**



Become food for termites  
**UNLIKE WOOD**



Fade or stain  
**UNLIKE WOOD**



Which Trex and why?  
See how our collections stack up to wood at [compare.trex.com](https://compare.trex.com)





# GREATER GREEN, GREATER GOOD.

It's a good feeling to be able to take in the view from your deck and know you did your part to protect the world around you.

Trex homeowners experience that sense of contentment over and over again, having chosen eco-friendly composite boards made with clean technology.

 **95%**  
recycled content

We repurpose 400,000 tons of plastic film and reclaimed sawdust annually

 **400 MILLION**  
pounds of plastic

Diverting this from landfills each year has made Trex one of largest recyclers of plastic film in North America

 **22,000**  
trees planted

Each sale of Trex Outdoor Furniture has led to this tally, thanks to our partnership with Trees for the Future







## TREX® LIMITED WARRANTY

Trex Company, Inc. (hereinafter "Trex") warrants to the original purchaser ("Purchaser") that, for the period of time set forth in the following sentence, under normal use and service conditions, Trex® product (the "Product") shall be free from material defects in workmanship and materials, and shall not split, splinter, rot or suffer structural damage from termites or fungal decay. The term of such warranty shall be twenty-five (25) years from the date of original purchase for a residential application, and ten (10) years from the date of original purchase for a commercial application. If a defect occurs within the warranty period, Purchaser shall notify Trex in writing and, upon confirmation by an authorized Trex representative of the defect, Trex's sole responsibility shall be, at its option, to either replace the defective Product or refund the portion of the purchase price paid by Purchaser for such defective Product (not including the cost of its initial installation).

For purposes of this warranty, a "residential application" shall refer to an installation of the Product on an individual residence, and a "commercial application" shall refer to any installation of the Product other than on an individual residence.

**Notwithstanding the foregoing, (a), the term of the warranty for the LED lights and housing for Trex DeckLighting™ shall be seven (7) years, the term of the warranty for the LED lights and housing for Trex LandscapeLighting™ shall be five (5) years, the term of the warranty for the dimmer, timer and transformer for both shall be three (3) years, and the term of the warranty for the motion controller for both shall be one (1) year, in each case provided that a Trex transformer is used (with no warranty on any components if a Trex transformer is not used), and any other parts or accessories shall not be warranted; (b) with respect to hardware for the Trex Surroundings® gate (gate frame, hinges and screws), the term of the warranty shall be five (5) years, (c) with respect to Trex Decorative Balusters, the term of the warranty covering the paint coating shall be ten (10) years, and shall be prorated in the following manner: 100% replacement for the first five (5) years; and 50% replacement for the next five (5) years, (d) the term of the warranty for Transcend Product used as outdoor cladding shall be twenty-five (25) years for both a residential application and a commercial application, and (e) this warranty shall not apply to Trex Elevations® steel deck framing, Trex Signature® aluminum railing and TrexTrim™ (which each have separate warranties).**

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF DEFECTIVE PRODUCT OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.**

With respect to a residential application, this warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon

which the Product was originally installed. With respect to a commercial application, this warranty is freely transferable to subsequent buyers of the property upon which the Product was originally installed.

To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description of the claimed defect and proof of purchase, to the following address:

Trex Company, Inc.  
Customer Relations  
160 Exeter Drive  
Winchester, VA 22603-8605

Trex does not warrant against and is not responsible for any condition attributable to: (1) improper installation of Product and/or failure to abide by Trex's installation guidelines, including but not limited to improper gapping; (2) use of Product beyond normal use and service conditions, or in an application not recommended by Trex's guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which Product is installed; (4) any act of God (such as flooding, hurricane, earthquake, lightning, etc.), environmental condition (such as air pollution, mold, mildew, etc.), staining from foreign substances (such as dirt, grease, oil, etc.), or normal weathering (defined as exposure to sunlight, weather and atmosphere which will cause any colored surface to gradually fade, chalk, or accumulate dirt or stains); (5) variations or changes in color of Product; (6) improper handling, storage, abuse or neglect of Product by Purchaser, the transferee or third parties; or (7) ordinary wear and tear.

No person or entity is authorized by Trex to make and Trex shall not be bound by any statement or representation as to the quality or performance of Product other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Trex and Purchaser.

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX'S LIABILITY FOR NON-PERSONAL INJURY CLAIMS WITH RESPECT TO DEFECTIVE PRODUCT SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCT OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.**

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

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## TREX TRANSCEND®, TREX ENHANCE®, TREX SELECT® AND TREX® UNIVERSAL FASCIA LIMITED FADE & STAIN WARRANTY

For the term set forth below, Trex Company, Inc. (hereinafter "Trex") warrants to the original end-user purchaser (the "Purchaser") that Trex Transcend® decking, porch or fascia, Trex Enhance® decking or fascia, Trex Select® decking or fascia or Trex Universal Fascia, as the case may be (the "Product") will perform, under normal use and service conditions, as follows:

**Term of Warranty:** The term of this warranty shall begin on the date of original purchase, and shall end (1) twenty-five (25) years thereafter for a residential application of the Product, and (2) ten (10) years thereafter for a commercial application of the Product. Notwithstanding the foregoing, the term of this warranty for Transcend Product used as outdoor cladding shall be twenty-five (25) years for both a residential application and a commercial application.

**Residential/Commercial Application:** For purposes of this warranty, a "residential application" shall refer to an installation of the Product on an individual residence, and a "commercial application" shall refer to any installation of the Product other than on an individual residence.

**Fade Resistance:** The Product shall not fade in color from light and weathering exposure as measured by color change of more than 5 Delta E (CIE) units.

The Product is designed to resist fading. No material is fade proof when exposed to years of UV exposure and the elements. The Product is designed to resist fading, and will not in any event fade by more than 5 Delta E (CIE) units.

**Stain Resistance:** The Product shall be resistant to permanent staining resulting from spills of food and beverage items including ketchup, mustard, salad oils, tea, wine, coffee, fruit punch, barbeque sauce, grease, sodas and other food and beverage related items that would typically be present on a residential deck, or mold and mildew naturally occurring in the environment, provided that such substances are removed from the Product with soap and water or mild household cleaners within one (1) week of exposure of the food or beverage to the surface or first appearance of the mold and mildew.

Notwithstanding the foregoing, Trex does not warrant that the Product is stain-proof, and does not warrant stain resistance resulting from spilled or otherwise applied food and beverage substances which are not properly cleaned as provided above within one (1) week of exposure. In addition, materials not covered in the stain resistant warranty include abrasive compounds of acidic or basic pH, paints or stains, strong solvents, metallic rust or other abnormal deck use items, and non-food and non-beverage substances, including but not limited to, biocides, fungicides, plant food, or bactericides. Mold and mildew can settle and grow on any outdoor surface, including this Product. You should periodically clean your deck to remove dirt and pollen that can feed mold and mildew. This warranty does not cover mold and mildew which is not properly cleaned as provided above within one (1) week of first appearance.

**Standard Trex Company Limited Warranty:** This warranty is in addition to the standard Trex Company Limited Warranty that applies to all Trex products.

**Transferability:** With respect to a residential application, this warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon which the Trex products were originally installed. With respect to a commercial application, this warranty is freely transferable to subsequent buyers of the property upon which the Trex products were originally installed.

### EXCLUSIONS FROM WARRANTY COVERAGE:

**Exposure to Heat:** Direct or indirect contact with extreme heat sources (over 275 degrees) may cause fading and may damage the surface of the Product, and any effects of such exposure are expressly excluded from coverage under this warranty.

**Surface Damage:** Never use metal shovels or sharp-edged tools to remove snow and ice on the surface of the Product. If the surface of the Product is damaged or punctured, this warranty will be voided.

**Paint or Other Materials Applied to the Product:** If paint or other coating materials are applied to the Product, this warranty will be voided.

**Railing:** This warranty does not cover Trex Transcend®, Trex Enhance® or Trex Select® railing components.

**Other Exclusions:** This warranty shall not cover any condition attributable to: (1) improper installation of the Product and/or failure to abide by Trex's installation guidelines, including but not limited to improper gapping; (2) use of the Product beyond normal use or service conditions, or in an application not recommended by Trex's guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the Product is installed; (4) any act of God (such as flooding, hurricane, earthquake, lightning, etc.); (5) improper handling, storage, abuse or neglect of the Product by Purchaser, the transferee or third parties; (6) any fading or staining not on the walking surface of the Product (i.e., the underside or the ends of the Product); or (7) ordinary wear and tear.

### Procedure for Making a Claim under this Warranty

In order to make a claim under this warranty, Purchaser must do the following:

1. If the Purchaser is making a claim relating to the warranty on stain resistance, Purchaser must do as follows:

(a) Purchaser must try to clean the affected area of the deck by using the cleaning procedures described above within one (1) week of exposure of the food or beverage to the Product or first appearance of the mold and mildew.

(b) If the affected area remains reasonably unsatisfactory after Purchaser has tried these cleaning procedures, then Purchaser must have the affected area of the deck professionally cleaned at Purchaser's expense.

(c) If the affected area remains reasonably unsatisfactory after the professional cleaning, Purchaser may make a claim under this warranty, provided that such claim is made within thirty (30) days after the professional cleaning.

2. To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description and photographs of the affected area of the Product, proof of purchase, and if the claim relates to the warranty on stain resistance, proof of compliance with paragraph 1. above, to the following address:

Trex Company, Inc.  
Customer Relations  
160 Exeter Drive  
Winchester, VA 22603-8605

3. Upon confirmation by an authorized Trex representative of a valid claim hereunder, Trex's sole responsibility shall be, at its option, to either replace the affected item or refund the portion of the purchase price paid by Purchaser for such affected item (not including the cost of its initial installation).

Replacement material will be provided that is as close as possible in color, design and quality as the replaced material, but Trex does not guarantee an exact match as colors and design may change.

4. If a valid warranty claim hereunder is made during years eleven (11) through twenty-five (25) after the original purchase for a residential application, recovery will be prorated. If Trex is providing replacement materials, it may elect to replace the percentage listed below of boards otherwise meeting the requirements for a claim, or if it is refunding the purchase price, it may elect to refund the percentage listed below of the purchase price of boards otherwise meeting the requirements for a claim.

YEAR OF WARRANTY CLAIM	PERCENTAGE RECOVERY
11	80%
12	80%
13	80%
14	60%
15	60%
16	60%
17	40%
18	40%
19	40%
20	20%
21	20%
22	20%
23	10%
24	10%
25	10%

**5. TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF AFFECTED PRODUCT OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.**

No person or entity is authorized by Trex to make and Trex shall not be bound by any statement or representation as to the quality or performance of Trex products other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Trex and Purchaser.

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX'S LIABILITY FOR NON-PERSONAL INJURY CLAIMS WITH RESPECT TO PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.**

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

Copyright © 2019 Trex Company, Inc.





## TREX SIGNATURE® RAILING LIMITED WARRANTY

Trex Company, Inc. (hereinafter "Trex") warrants to the original purchaser ("Purchaser") that, under normal use and service conditions, Trex Signature® Railing (the "Product") shall, for a period of twenty-five (25) years from the date of original purchase, be free from material defects in workmanship and materials. If a defect occurs within the warranty period, Purchaser shall notify Trex in writing and, upon confirmation by an authorized Trex representative of the defect, Trex's sole responsibility shall be, at its option, to either replace the defective Product or refund the portion of the purchase price paid by Purchaser for such defective Product (not including the cost of its initial installation).

With respect to installations where the atmosphere is influenced by a body of salt water (or other contaminant conditions), failure to adhere to the cleaning guidelines available at [www.trex.com](http://www.trex.com) will void this warranty with respect to any condition resulting from such failure.

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF DEFECTIVE PRODUCT OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.**

This warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon which the Product was originally installed.

To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description of the claimed defect and proof of purchase, to the following address:

Trex Company, Inc.  
Customer Relations  
160 Exeter Drive  
Winchester, VA 22603-8605

Trex does not warrant against and is not responsible for any condition attributable to: (1) improper installation of the Product; (2) use of the Product beyond normal use and service conditions, or in an application not recommended by Trex's guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the Product is installed; (4) damages attributable to fire, violent storms, earthquake or other Acts of God, accidents, vandalism, or other casualties, impact of objects, or exposure to atmospheric pollutants or conditions other than natural weather processes, (5) improper handling, storage, abuse or neglect of the Product by Purchaser, the transferee or third parties; or (6) ordinary wear and tear.

No person or entity is authorized by Trex to make and Trex shall not be bound by any statement or representation as to the quality or performance of Trex products other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Trex and Purchaser.

**TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX'S LIABILITY FOR NON-PERSONAL INJURY CLAIMS WITH RESPECT TO DEFECTIVE PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.**

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

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*Go step-by-step with our helpful*

## ONLINE TOOLS

### 1. GET A SENSE OF COLOR & COSTS

Color Selector  
Find a hue that says "you" at [colors.trex.com](http://colors.trex.com)

Decking & Railing Duos  
Select a pre-styled pairing at [duos.trex.com](http://duos.trex.com)

Cost Calculator  
Estimate the price of your deck at [price.trex.com](http://price.trex.com)

### 2. DETERMINE SIZE & SHAPE

Deck Starter  
Design your deck in three clicks at [getstarted.trex.com](http://getstarted.trex.com)

Deck Designer  
Get a shareable blueprint with our virtual reality tool at [3Ddesign.trex.com](http://3Ddesign.trex.com)

### 3. SECURE SAMPLES & GET MOVING

Board Samples  
Compare and contrast footlong boards at [order.trex.com](http://order.trex.com)

Trex Locator  
Find nearby retailers at [find.trex.com](http://find.trex.com)

TrexPro® Locator  
Find a local, pre-approved contractor at [pros.trex.com](http://pros.trex.com)



@TrexCompany

### SHARE YOUR BUILD

Tag your photos with **#trexdecking** to be featured on our Instagram feed.





RED RECTANGLE DENOTES ARCHITECT'S SELECTIONS

## Superior Product Design for Ultra-Strength



### High-strength Ultrum™ Alloy, Made in the USA

It's as strong as steel, but will never rust. Ultrum is a 6005-T5 alloy, with a minimum ultimate strength of 35,000 psi.



### Factory assembled, with stainless-steel fasteners

For structural integrity and strength you can count on.



### All gates are fastened and 100% welded at all connections and joints

Designed to stand up to the rigors of everyday use.



### Powercoat™ Finish—panels, gates, posts and designer accessories

Our Powercoat™ finish is twice the thickness and hardness of a typical acrylic, baked enamel, or "wet paint" finish, making it more durable, fade-resistant and scratch-resistant than other coatings.



### Colors

Ultra Aluminum™ fencing, railing, gates and designer accessories are available in nine classic colors as well as custom specified hues. All colors are applied with an exclusive Powercoat™ finish to resist harsh weather and heat.



Colors shown represent an approximate comparison and may vary slightly from actual product color.



### Ultra Aluminum™ Lifetime Warranty

Ultra Aluminum fence and railing products are guaranteed for life

against defects in workmanship and/or materials. The exclusive Powercoat™ finish on all fencing and railing by Ultra Aluminum is unconditionally guaranteed for life against cracking, peeling or chipping. Visit our website for more information and a copy of the warranty.



### Environmentally Responsible

We are proud to use recycled aluminum in our products. Aluminum is the most commonly recycled metal in the world. Our Powercoat™ coating process is environmentally friendly and virtually pollution-free.



ULTRAFENCE.COM | ULTRARAILING.COM

UA 06 9/19

800.656.4420

Ultra and the picket caps logo is a registered trademark of Ultra Aluminum Manufacturing Inc.



# Aluminum Fencing and Railing

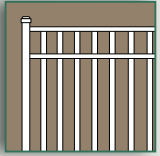


Residential, Commercial and industrial

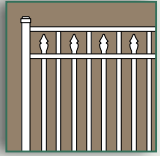




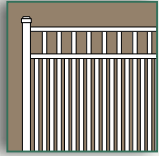
# Ultra Fencing™ Design Options



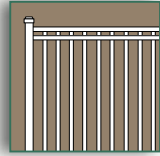
UAF-200 Flat-Top



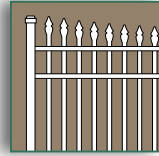
UAF-250 Flat-Top with Spear



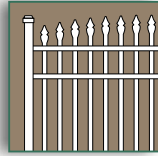
UAF-201 Flat-Top with 1-5/8" Spacing



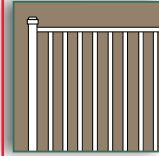
UAB-200 Flat-Top Flush



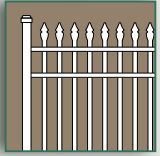
UAS-300 Concave



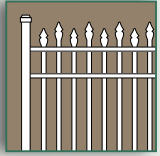
UAS-350 Convex



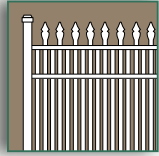
UAB-400 Ultra Picket



UAS-100 Spear Top



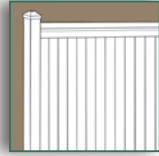
UAS-150 Staggered Spear



UAS-101 Spear Top with 1-5/8" Spacing



UAL-100 Curved-Top with Spear



Eclipse™ Privacy

Ultra Aluminum™ fencing is available in a wide selection of design configurations. Residential available in 3-13/16" or 1-5/8" spacing. Commercial available in 3-5/8" or 1-1/2" spacing. Industrial fencing not available in UAB-200 or UAB-400.

## Designer Accessories

Our cast aluminum designer accessories include scrolls, butterflies, circles and two styles of finials, all available in the same Powercoat™ finish for a perfect accent.



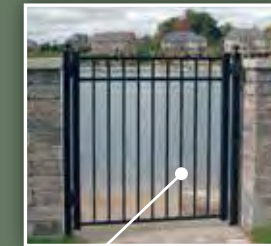
From Left To Right: Decorative Circles, Butterfly Scrolls, Large Scrolls, Quad-Finial, Tri-Finial, Ball Cap

## ULTRA RAILING™



### Ultra Aluminum™ 1.5" Secondary Handrails

We designed our Ultra 1.5" secondary handrail as a modular system to meet the railing code requirements for the Americans with Disabilities Act and Uniform Federal Accessibility Standards. It works well with Ultra Signature™ and Ultra Max® Railing systems.



STANDARD WALK GATE



STANDARD DRIVE GATE



ULTRA ESTATE COLLECTION DRIVE GATE

## Pool Fencing

We design fencing to meet all the stringent BOCA pool safety codes, and to enhance your property at the same time. Most notably, the bottom rail can be flush with the bottom of the fence, so no pickets are exposed.

All pool fence sections come factory pre-assembled in 6' lengths with a broad offering of heights— 48", 54", 60", and 72". Custom lengths and heights available.



OUR FENCING IS SPECIALLY DESIGNED FOR SAFETY AROUND POOL ENCLOSURES.

## Walk and Drive Gates

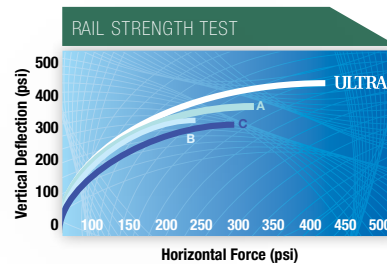
Matching Walk and Drive Gates can typically be manufactured in widths ranging from 3' – 28' and in heights from 3' – 8'. Please consult your sales representative for variations.



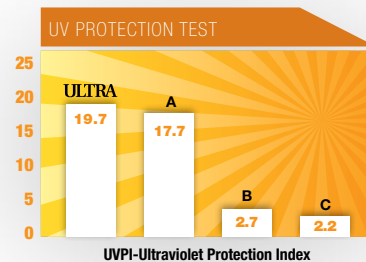
*Residential and Commercial Series also available in Premium grade, featuring a 2-piece fully encased rail that provides additional strength and hides the fasteners.*



We make a scale of fencing for every neighborhood and home style. All fence sections come factory pre-assembled in 6' lengths with a broad offering of heights—36" to 144". Custom lengths and heights are available by special order. Each section easily follows modest changes in grade along your property lines, or can be factory designed to conform to more prominent hills and valleys.



An independent test lab pushed our fencing and our competitors' to their limits. The Rail Strength Test revealed the extra pressure that Ultrarail™ can withstand on a daily basis, surpassing one competitor's product by nearly 100%.



An independent lab's accelerated weathering test shows that the Ultra's exclusive Powercoat™ finish maintains higher levels of UV Protection compared to other leading manufacturers' finishes.

**RESIDENTIAL SERIES** sets the standard for perimeter and pool fencing.



1.0" X 1.125" REINFORCED RAIL  
0.625" PICKETS

**COMMERCIAL SERIES** has larger-scale components for heavier-duty performance.



1.25" X 1.375" REINFORCED RAIL  
0.75" PICKETS  
1.5" SPACING (OPTIONAL)

**ECLIPSE™ PRIVACY SCREENING** the ultimate in heavy-duty, low-maintenance privacy and security.



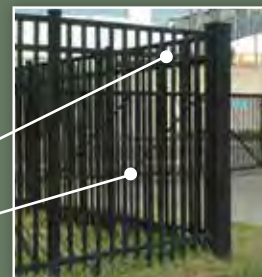
0.75" X 5.0" X .080" T&G BOARDS

### Industrial Strength

For applications where additional security and strength are required, Ultra has developed Industrial Series fencing. Our Industrial fence sections come in 6' and 8' lengths, and heights from 3' to 12'. Custom lengths and heights are available by special order. Some limitations apply; ask your sales representative for details.

*Industrial Series also available in Premium grade, featuring a 2-piece fully encased rail that provides additional strength and hides the fasteners.*

**INDUSTRIAL SERIES** incorporates our largest-scale components for industrial-strength and safety.



1.625" X 1.625" REINFORCED RAIL  
1.0" PICKETS

### 259 MPH TOUGH!

Our fencing tested to withstand hurricane wind gusts of up to 259 MPH.

