



## DESIGN REVIEW REQUEST

- ☒ DOWNTOWN DESIGN (DK)  
☐ HISTORIC ZONING (H)  
☐ INFILL HOUSING (IH)



Tennessee Theatre Expansion\_ 612 Gay Street

Applicant

1/31/2020

2/19/2020

Date Filed

Meeting Date (if applicable)

2-D-20-DT  
File Number(s)

### CORRESPONDENCE

All correspondence related to this application should be directed to the approved contact listed below.

☐ Owner ☐ Contractor ☐ Engineer ☒ Architect/Landscape Architect

Whitney Manahan	McCarty Holsaple McCarty
Name	Company
550 W Main Street Suite 300	Knoxville TN 37902
Address	City State Zip
865-544-2000	wmanahan@mhminc.com
Phone	Email

### CURRENT PROPERTY INFO

Historic Tennessee Theatre Foundation	604 S GAY ST	865.684.1200
Owner Name (if different from applicant)	Owner Address	Owner Phone
612 S GAY St	0951F034	
Property Address	Parcel ID	
Central City	DK-H	
Neighborhood	Zoning	

### AUTHORIZATION

Staff Signature

Please Print

1/31/2020  
Date

Applicant Signature

Whitney Manahan  
Please Print

1/31/2020  
Date

# REQUEST

DOWNTOWN DESIGN

## Level 1:

- ☐ Signs ☒ Alteration of an existing building/structure

## Level 2:

- ☒ Addition to an existing building/structure

## Level 3:

- ☐ Construction of new building/structure ☐ Site design, parking, plazas, landscape

See required Downtown Design attachment for more details.

- ☒ Brief description of work: Restoration of the entire building facade and addition of egress stair and connector tower between 612 S Gay Street and the Tennessee Theatre Auditorium.

HISTORIC ZONING

## Level 1:

- ☐ Signs ☒ Routine repair of siding, windows, roof, or other features, in-kind; Installation of gutters, storm windows/doors

## Level 2:

- ☒ Major repair, removal, or replacement of architectural elements or materials ☒ Additions and accessory structures

## Level 3:

- ☐ Construction of a new primary building

## Level 4:

- ☐ Relocation of a contributing structure ☐ Demolition of a contributing structure

See required Historic Zoning attachment for more details.

- ☒ Brief description of work: Most infilled windows will be opened up. All windows will be replaced to match historic configurations as closely as possible.

All stone and brick will be repaired and repointed. New roofing, downspouts and gutters will be added. The front entry will be renovated to more closely match historic photos including, removing the canvas awning, adding life at the entry, removing the modern storefront and adding a wood, glass and metal door based on historic photos that meets current codes.

INFILL HOUSING

## Level 1:

- ☐ Driveways, parking pads, access point, garages or similar facilities ☐ Subdivisions

## Level 2:

- ☐ Additions visible from the primary street ☐ Changes to porches visible from the primary street

## Level 3:

- ☐ New primary structure  
☐ Site built ☐ Modular ☐ Multi-Sectional

See required Infill Housing attachment for more details.

- ☐ Brief description of work:

STAFF USE ONLY

## ATTACHMENTS

- ☐ Downtown Design Checklist  
☐ Historic Zoning Design Checklist  
☐ Infill Housing Design Checklist

## ADDITIONAL REQUIREMENTS

- ☐ Property Owners / Option Holders

Level 1: \$50 • Level 2: \$100 • Level 3: \$250 • Level 4: \$500

FEE 1:

Level 2 \$100

TOTAL:

FEE 2:

\$100.00

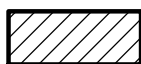
FEE 3:



**2-D-20-DT**

**APPLICATION FOR CERTIFICATE OF APPROPRIATENESS**

**DOWNTOWN  
DESIGN  
REVIEW  
BOARD**



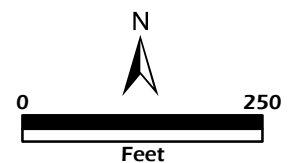
**612 S. Gay St.**

**Level 2: Major alteration of an existing building/structure; Level 2: Addition to an**

Original Print Date: 2/19/2020

Revised:  
Knoxville/Knox County Planning · Downtown Design Review Board

**Petitioner: Whitney Manahan, McCarty  
Holsaple McCarty**





**MHM**

19020

## **612 SOUTH GAY STREET RENOVATION**

TENNESSEE THEATRE

612 South Gay St. Knoxville, TN

### **DOWNTOWN DESIGN REVIEW BOARD**

02/19/2020

FACADE RENOVATION PACKAGE ONLY  
SIGNAGE WILL BE SUBMITTED AT A LATER DATE

**McCARTY HOLSAPLE McCARTY**





Project Information:  
19020

**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

Seal  
DESIGN/DEVELOPMENT PACKAGE  
REFERENCE SHEET  
PRELIMINARY PACKAGE:  
**NOT FOR CONSTRUCTION**

Consultant:

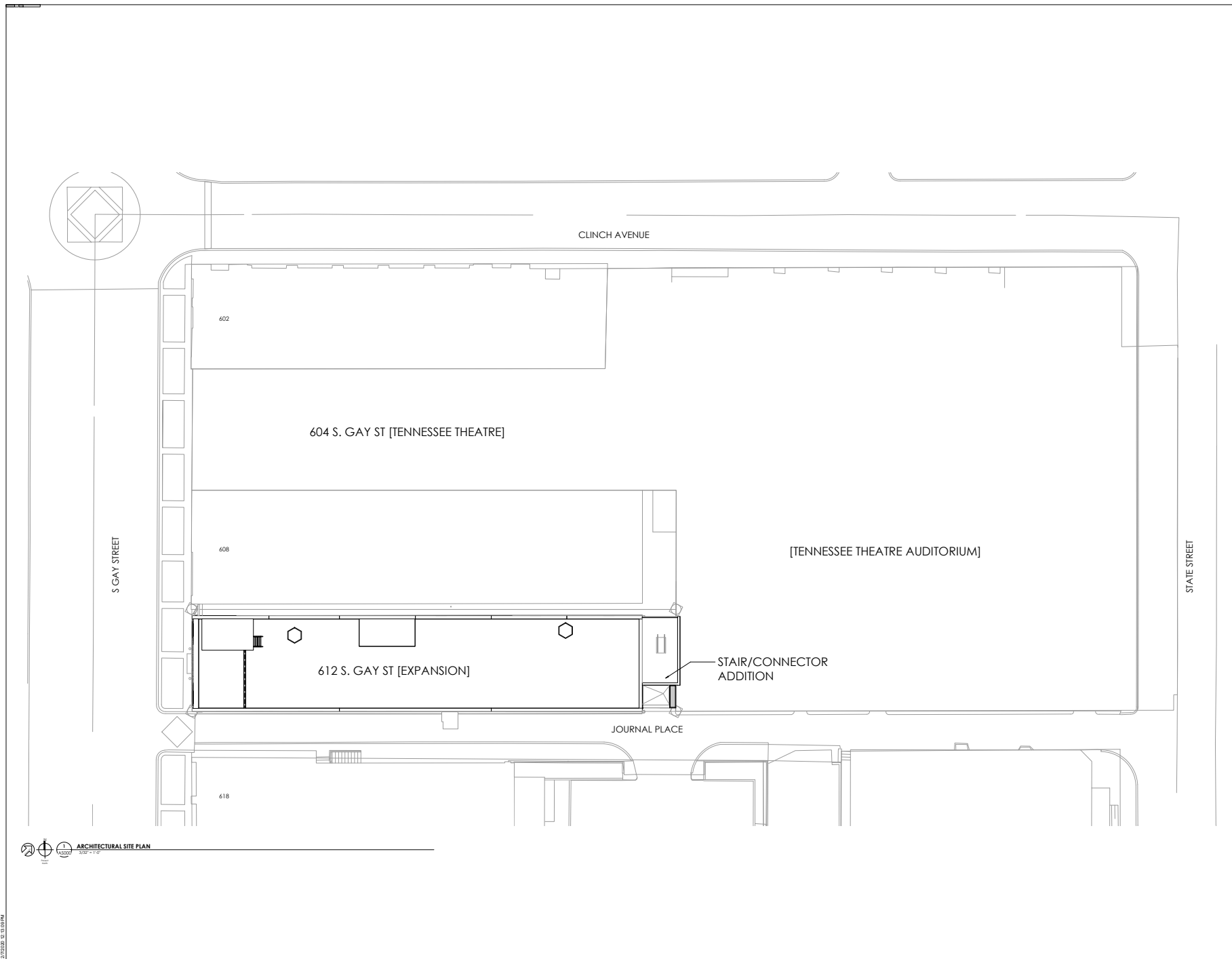
#	ISSUE	DATE

Issue Date:	02/12/2020
PC:	MARGARET BUTLER
PM:	JASON MILLER
PA:	CHARLOTTE MCLELLAND / JC Name
Drawn By:	Author
Checked By:	Project Checked By

Drawing Info:

**AS000**

ARCHITECTURAL SITE PLAN





**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

Seat:

DOWNTOWN DESIGN REVIEW BOARD

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Consultant:

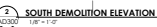
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PIC	MARGARET BUTLER
PM	AARON MILLER
PA	CHARLOTTE MOELLENDICK / JC Name
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Drawing Info:	

# AD300

COMPOSITE  
DEMOLITION  
ELEVATIONS

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**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

TOWNTOWN DESIGN REVIEW BOARD

PRELIMINARY PACKAGE:  
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Consultant:

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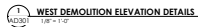
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**AD301**

### WEST & EAST DEMO ELEVATIONS

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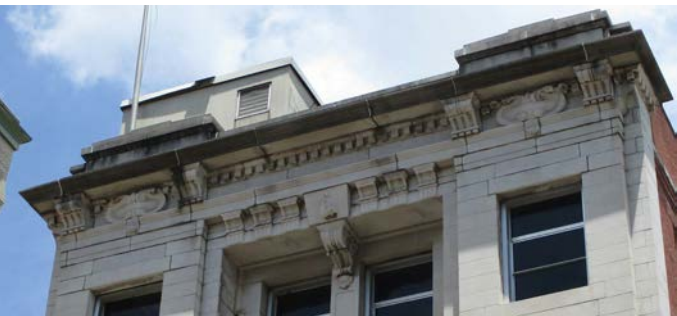
1. ALL WINDOWS TO BE REMOVED AND ROUGH OPENINGS PREPARED FOR NEW WINDOW UNLESS NOTED OTHERWISE.
2. FIRE ESCAPE, NORTH STAIR TO GAY STREET AND ASSOCIATED ACCESS DOORS MUST REMAIN UNTIL INTERIOR STAIR AND STAIR ADDITION ARE BOTH COMPLETE. AFTERWARDS, REMOVE AND REPAIR ELEVATION AS NOTED.
3. REMOVE DOORS AND SILL AT EAST ESCAPE AND PREPARE MASONRY OPENING FOR NEW WINDOW AND SILL TO MATCH EXISTING UNLESS NOTED OTHERWISE.
4. REMOVE ALL HVAC GRILLS FROM SOUTH ELEVATION AND REMOVE ANY NON-MATCHING INFILL BRICK AROUND GRILL UNLESS NOTED OTHERWISE.
5. REMOVE ALL FASTENERS AND FOREIGN OBJECTS ON ELEVATIONS UNLESS NOTED OTHERWISE. FOR OBJECTS IN QUESTION CONFIRM REMOVAL WITH ARCHITECT.







WEST ELEVATION EXISTING CONDITIONS (GAY STREET)



STONE ABOVE LINTELS HAS SHIFTED AND NEEDS REPAIR



EAST ELEVATION EXISTING CONDITIONS



MHM

McCarthy Holtsapple McCarthy, Inc.  
Knoxville, TN 37902  
505 W. Main St., Suite 300  
1-865-544-2000  
1-865-557-5442  
www.mhmcinc.com



Project Information:

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**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

Seal

DOWNTOWN DESIGN REVIEW BOARD

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Consultant:

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PIC: MARGARET BUTLER  
PW: JASON MILLER  
PA: CHARLOTTE MCLELLAND / JC Name:  
Drawn By: Author  
Checked By: Project Checked By:  
Drawing Info:

**ADX301**

WEST & EAST  
EXISTING CONDITIONS

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Seal:

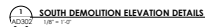


DOWNTOWN DESIGN REVIEW BOARD

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SOUTH ELEVATION EXISTING CONDITIONS (ALLEY)



PARTIALLY INFILLED WINDOWS- NO LINTEL



FAILED STEEL LINTELS



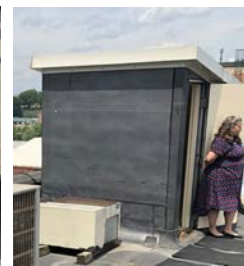
BRICK FACES SHEARED AT STEP CRACK



INFILL AT GRILL AND STEP CRACK IN BRICK BELOW



ELEVATOR PENT HOUSE



STAIR POP-UP



Project Information:

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## 612 SOUTH GAY STREET RENOVATION

612 South Gay St. Knoxville, TN

Seal

DOWNTOWN DESIGN REVIEW BOARD

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Drawing Info:

## ADX302

SOUTH & ROOF  
EXISTING CONDITIONS

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**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

Seat:



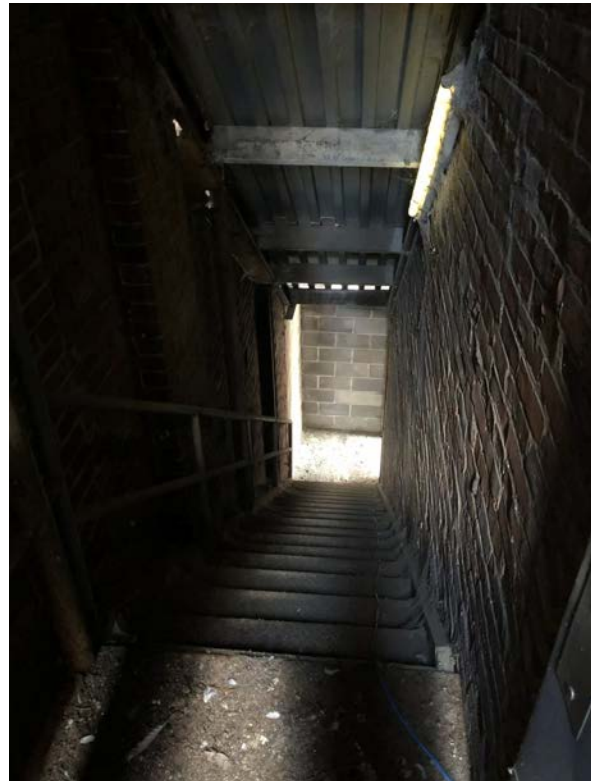
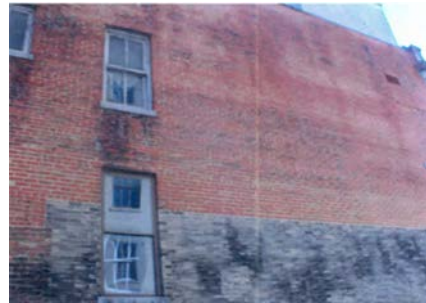
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5. REMOVE ALL FASTENERS AND FOREIGN OBJECTS ON ELEVATIONS UNLESS NOTED OTHERWISE. FOR OBJECTS IN QUESTION CONFIRM REMOVAL WITH ARCHITECT.







STAIR ENCLOSURE AT NORTHEAST CORNER



NORTH ALLEY AT SECOND LEVEL- LOOKING WEST



LOOKING DOWN AT NORTH ALLEY FROM ADJACENT BUILDING ROOF



WINDOWS INFILLED FROM INTERIOR AT FIRST LEVEL

NORTH ELEVATION EXISTING CONDITIONS



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## 612 SOUTH GAY STREET RENOVATION

612 South Gay St. Knoxville, TN

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Drawn By:	Author
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## ADX303

NORTH EXISTING  
CONDITIONS

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612 South Gay St. Knoxville, TN

Seat:

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**AD103**

DEMOLITION PLANS

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## DEMOLITION NOTES

1. REMOVE EXISTING MATERIALS INCLUDING WALLS, FLOORING AND CEILINGS AS INDICATED AND NECESSARY TO ACCOMPLISH THE WORK.
2. WHERE DEMOLITION AVOIDS EXISTING MATERIALS TO REMAIN, CONTRACTOR SHALL PATCH ANY DAMAGES TO MATCH EXISTING ADJACENT SURFACES.
3. ALL MATERIALS WITH SALVAGEABLE VALUE SHALL BE TURNED OVER TO THE OWNERS OR AUTHORITY. THIS INCLUDES: FURNITURE, COOKS, HARDWARE, LIGHT FIXTURES AND DIFFUSERS) TO DETERMINE THE DESIRED COURSE OF ACTION TO BE TAKEN.
4. CAP AND CONCEAL ALL UTILITIES WHERE ROUTES, EQUIPMENT ARE REMOVED, AND PATCH CONCRETE SLABS TO MATCH EXISTING FLOOR LEVEL.
5. DEMOLITION REQUIRED FOR NEW CONSTRUCTION SHALL BE RESTRICTED TO THE MINIMUM POSSIBLE. EXISTING FINISHES, COLORS, HARDWARE, LIGHT FIXTURES, ADJACENT EXISTING FINISHES SHALL BE REPAIRED, FINISHES AND COLORS SHALL MATCH EXISTING WHERE POSSIBLE.
6. **REFER TO LIFE SAFETY PLAN 3/1/01 FOR INFO ABOUT REQUIRED DEMOLITION SEQUENCE.**





19020

**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

DOWNTOWN DESIGN REVIEW BOARD

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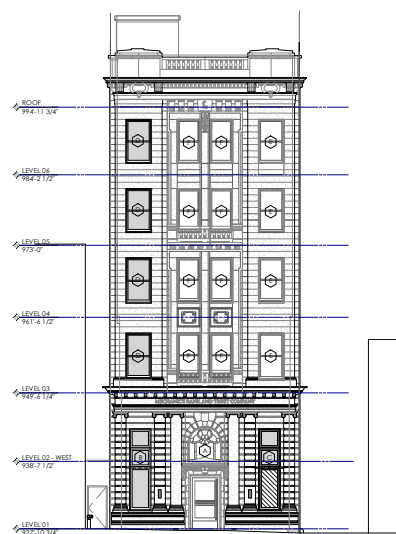
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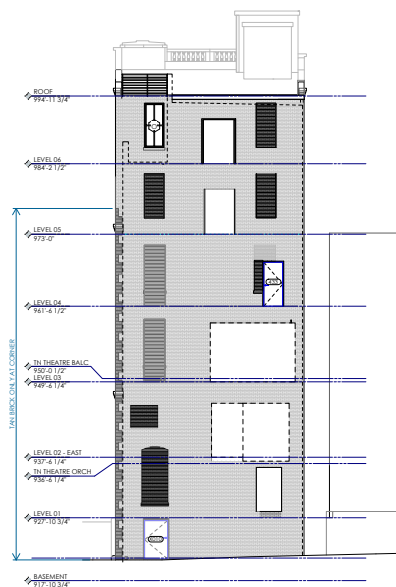
## A300

COMPOSITE EXTERIOR  
ELEVATIONS

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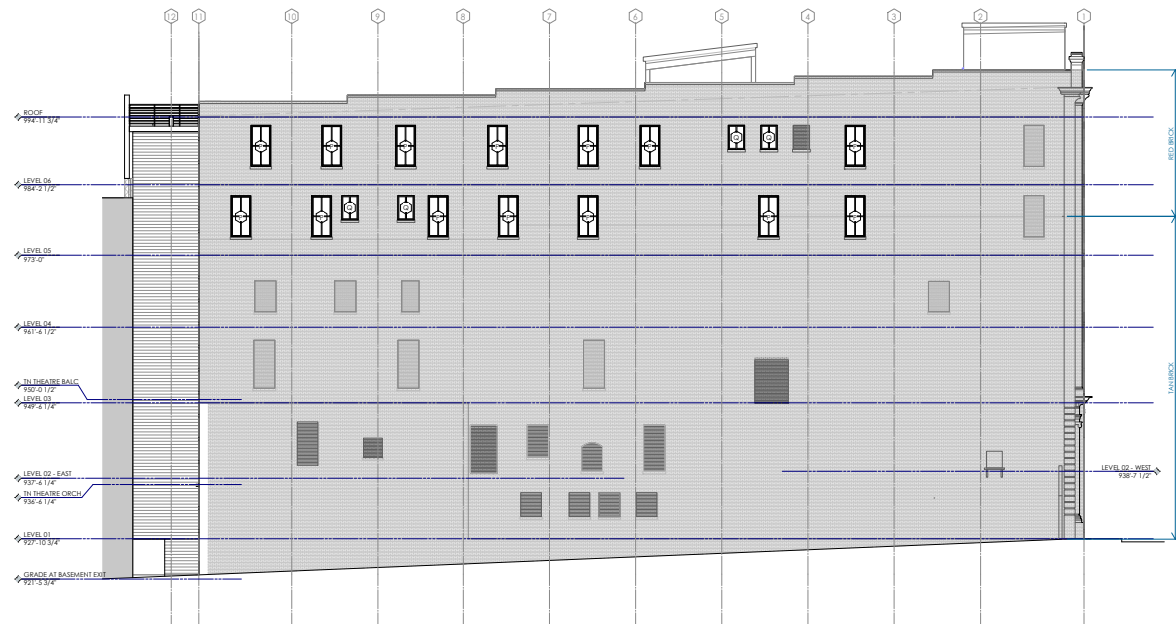
1 WEST ELEVATION  
A300 1/8" = 1'-0"



3 EAST ELEVATION  
A300 1/8" = 1'-0"



2 SOUTH ELEVATION  
A300 1/8" = 1'-0"



4 NORTH ELEVATION  
A300 1/8" = 1'-0"



Project Information:

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**612 SOUTH GAY STREET RENOVATION**

612 South Gay St. Knoxville, TN

Seal

DESIGN/DEVELOPMENT PACKAGE  
REFERENCE SHEET

PRELIMINARY PACKAGE:  
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Consultant:

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Issue Date:	02/12/2020
PMC:	MARGARET BUTLER
PM:	ANDREW MILLER
PA:	CHARLOTTE MCLELLAND / JC Name
Drawn By:	Author
Checked By:	Project Checked By
Drawing Info:	

**AX300**

GENERAL ELEVATION  
IMAGE REFERENCES

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ORIGINAL WINDOWS ON THE WEST ELEVATION  
UPPER LEVELS WERE 1 OVER 1 DOUBLE HUNG.  
REPLACEMENT WINDOWS BE ALUMINUM CLAD  
WOOD WINDOWS AND WILL MATCH ORIGINAL  
CONFIGURATIONS.

ORIGINAL WINDOWS ON THE WEST ELEVATION  
LOWER LEVELS WERE PIVOT WINDOWS WITH A  
SPANDREL WINDOW AT THE MEZZANINE FLOOR  
LEVEL. REPLACEMENT WINDOWS WILL BE FIXED,  
ALUMINUM CLAD WOOD WINDOWS WITH  
SPANDREL GLASS DUE TO THE EXISTING ELEVATOR  
LOCATION.

WEST ELEVATION C. 1923

ORIGINAL WINDOWS ON THE SOUTH, EAST AND NORTH ELEVATIONS WERE 2 OVER 2  
DOUBLE HUNG OR 2 LITE HOPPER WINDOWS.  
REPLACEMENT WINDOWS WILL BE ALUMINUM WOOD CLAD WINDOWS, THE 2 OVER 2  
WILL BE DOUBLE HUNG AND THE 2 LITE WILL BE FIXED.



SOUTH ELEVATION C. 1929



OPEN ACCESS FOR  
ADJACENT BUILDINGS

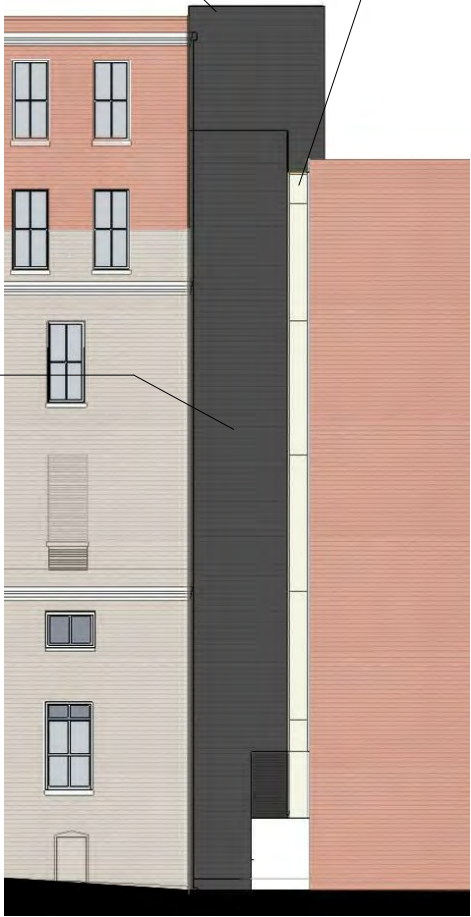
THE SECRETARY OF THE INTERIORS STANDARDS STATE THAT  
ADDITIONS TO HISTORIC BUILDINGS SHOULD BE COMPATIBLE  
YET DIFFERENTIATED FROM THE HISTORIC BUILDING. THE  
PROPOSED MATERIALS MAKE IT CLEAR THAT THE STAIR TOWER IS  
AN ADDITION BETWEEN THE HISTORIC TENNESSEE THEATRE  
BUILDING AND THE HISTORIC 612 BUILDING.



CORRUGATED METAL PANEL



INSULATED TRANSLUCENT  
WALL PANEL



STAIR ADDITION WITH RENDERED MATERIALS



**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

Soat:

Consultant:

[illegible]

Issue Date:	02.10.2020
PIC	MARGARET BUTLER
PM	AARON MILLER
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Drawing Info:	

WEST & EAST  
ELEVATIONS

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1. ALL MASORINRY STONE TO BE CLEANED AND TOUCH POINTED.
2. REPAIR MASORINRY AND STONE AS NEEDED WHERE FASTENERS HAVE BEEN REMOVED.
3. ALL WINDOWS TO BE REPLACED TO MATCH HISTORIC CONFIGURATION UNLESS NOTED OTHERWISE.
4. FIRE ESCAPE MUST REMAIN UNTIL INTERIOR STAIR AND STAIR ADDITION ARE BOTH COMPLETE. AFTERWARDS, REMOVE AND REPAIR FACADE AS NOTED.
5. UNLESS NOTED OTHERWISE, PREVIOUS FIRE ESCAPE DOOR LOCATIONS TO RECEIVE NEW STONE SILLS. INFILL BELOW WITH MULTI-WYTHE BRICK TO MATCH EXISTING.
6. MATCH BRICK TO THE APPROPRIATE ADJACENT COLOR. BRICK AND STONE SAMPLES TO BE APPROVED BY ARCHITECT.







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## 612 SOUTH GAY STREET RENOVATION

612 South Gay St. Knoxville, TN

Seal

DOWNTOWN DESIGN REVIEW BOARD

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Drawing Info:

## AX301

WEST ELEVATION  
IMAGE REFERENCES

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[IMAGE NOT DATED]



[IMAGE NOT DATED]

BEFORE THE UPPER FLOORS WERE ADDED THERE WERE STAINED GLASS WINDOWS ABOVE THE FIRST FLOOR WINDOWS. [IMAGE NOT DATED]

THE STAINED GLASS WINDOW ABOVE THE ENTRY DOOR IS STILL IN PLACE WITH A PROTECTIVE COVER.



THE DOORS AT THE ENTRY HAD VARIOUS CONFIGURATIONS OVER THE YEARS. A SINGLE DOOR WILL HAVE TO BE INSTALLED TO MEET CURRENT EGRESS AND ACCESSIBILITY CODES. THE NEW DOOR WILL PULL MATERIAL INSPIRATION FROM THE BUILDING'S ORIGINAL USE AS A BANK.



[IMAGE NOT DATED]

THE FIRST LEVEL WINDOWS AT GAY STREET WERE ORIGINALLY PIVOT WINDOWS. THE CENTER WINDOW IS AT THE FLOOR LINE AND WAS ORIGINALLY SPANDREL OR BACK PAINTED GLASS WITH SIGNAGE. THE REPLACEMENT WINDOWS WILL ALSO BE SPANDREL AS THIS IS NOW THE LOCATION OF THE EXISTING ELEVATOR.



[EXISTING BANK VAULT DOOR]



[EXISTING]



[REPLACEMENT CONCEPT]

THE EXTERIOR SCONCES ARE NOT ORIGINAL. THEY WILL BE REMOVED AND REPLACED WITH SIMPLE SCONCES THAT LIGHT THE FACADE VERTICALLY.



**612 SOUTH GAY STREET RENOVATION**  
612 South Gay St. Knoxville, TN

Seal:

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Consultant:

[illegible]

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PIC	MARGARET BUTLER
PM	AARON MILLER
PA	CHARLOTTE MOELLENDICK / JC Name
Drawn By:	Author
Checked By:	Project Checked By
Drawing Info:	

## A302

SOUTH ELEVATION

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1. ALL MASONRY BRICK AND STONE TO BE CLEANED AND TUCK POINTED.
2. REPAIR MASONRY BRICK AND STONE AS NEEDED WHERE FASTENERS HAVE BEEN REMOVED.
3. ALL WINDOWS TO BE REPLACED TO MATCH HISTORIC CONFIGURATION UNLESS NOTED OTHERWISE.
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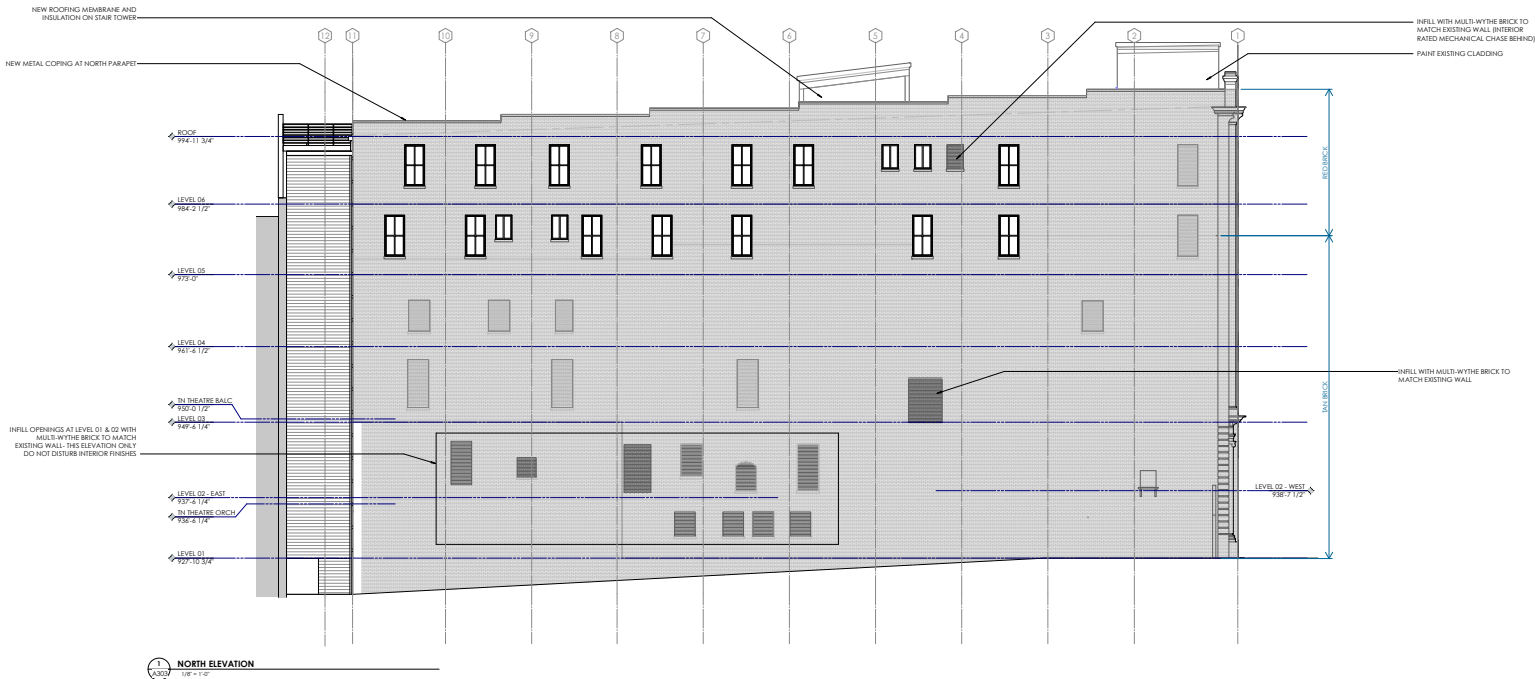
**A303**

NORTH ELEVATION

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ELEVATION NOTES

1. ALL MASONRY AND STONE TO BE CLEANED AND TUCK POINTED.
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4. FIRE ESCAPE MUST REMAIN UNTIL INTERIOR STAIR AND STAIR ADDITION ARE BOTH COMPLETE. AFTERWARDS, REMOVE AND REPAIR FACADE AS NOTED.
5. UNLESS NOTED OTHERWISE, PREVIOUS FIRE ESCAPE DOOR LOCATIONS TO RECEIVE NEW STONE SILL. INFILL BELOW WITH MULTI-WYTHE BRICK TO MATCH EXISTING.
6. MATCH BRICK TO THE APPROPRIATE ADJACENT COLOR. BRICK AND STONE SAMPLES TO BE APPROVED BY ARCHITECT.





19020

612 South Gay St. Knoxville, TN

PRELIMINARY PACKAGE:  
**NOT FOR  
CONSTRUCTION**

Consultant:

[illegible]

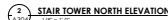
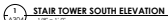
Issue Date:	02.10.2020
PIC	MARGARET BUTLER
PM	AARON MILLER
PA	CHARLOTTE MOELLENDICK / JC Name
Drawn By:	Author
Checked By:	Project Checked By
Drawing Info:	

## A304

STAIR ADDITION  
ELEVATIONS

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1. ALL MASONRY BRICK STONE TO BE CLEANED AND TUCK POINTED.
2. REPAIR MASONRY AND STONE AS NEEDED WHERE FASTENERS HAVE BEEN REMOVED.
3. ALL WINDOWS TO BE REPLACED TO MATCH HISTORIC CONFIGURATION UNLESS NOTED OTHERWISE.
4. FIRE ESCAPE MUST REMAIN UNTIL INTERIOR STAIR AND STAIR ADDITION ARE BOTH COMPLETE. AFTERWARDS, REMOVE AND REPAIR FACADE AS NOTED.
5. UNLESS NOTED OTHERWISE, PREVIOUS FIRE ESCAPE DOOR LOCATIONS TO RECEIVE NEW STONE SILLS. INFILL BELOW WITH MULTI-WYTHE BRICK TO MATCH EXISTING.
6. MATCH BRICK TO THE APPROPRIATE ADJACENT COLOR. BRICK AND STONE SAMPLES TO BE APPROVED BY ARCHITECT.





19020

## 612 South Gay St. Knoxville, TN

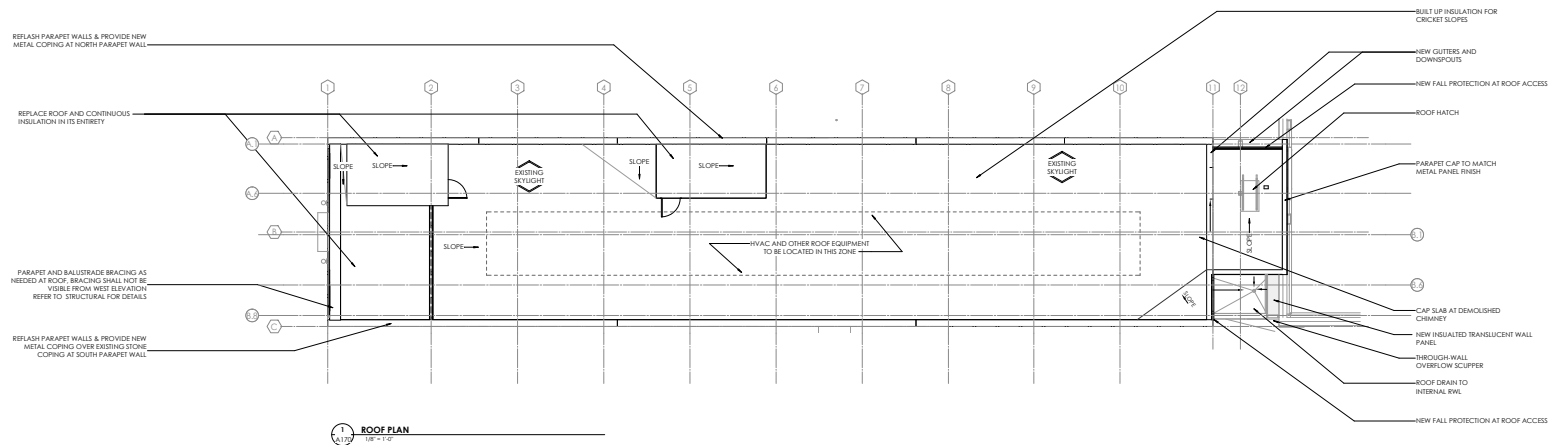
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Consultant:

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Issue Date:	02/19/2020
PIC	MARGARET BUTLER
PM	AARON MILLER
PA	CHARLOTTE MOELLENDICK / JC Name
Drawn By:	Author
Checked By:	Project Checked By
Drawing Info:	

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Project Information:

19020

612 SOUTH GAY STREET  
RENOVATION  
612 South Gay St. Knoxville, TN

Seal

Consultant:

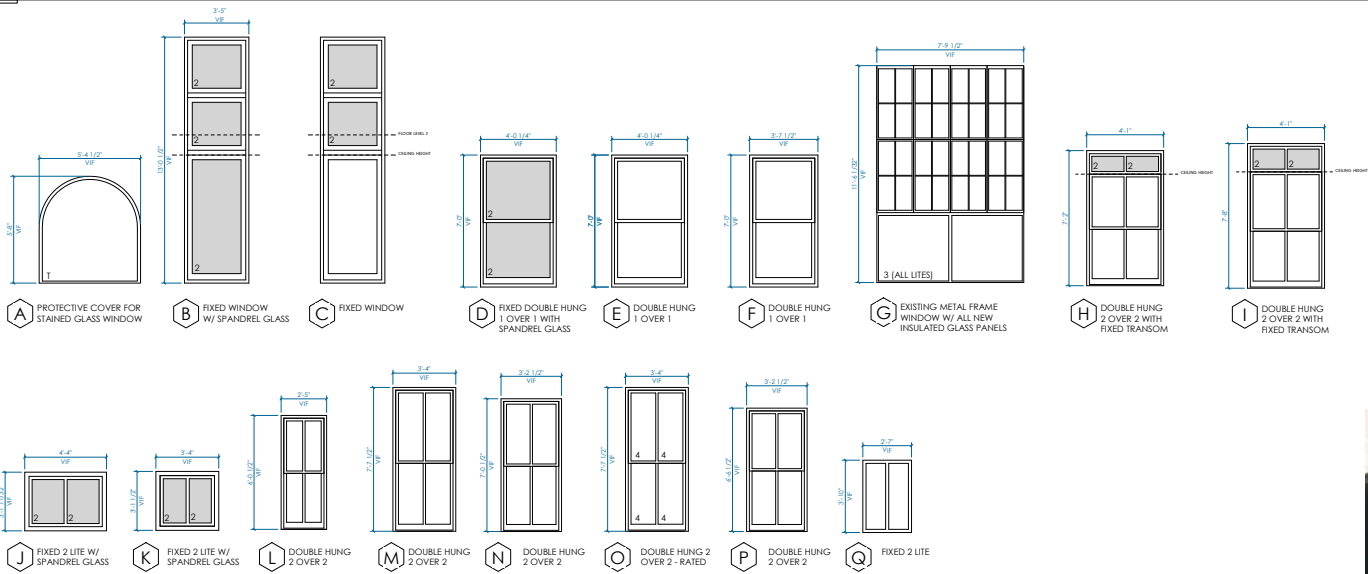
#	ISSUE	DATE

Issue Date:	02/12/2020
PC:	MARGARET BUTLER
PM:	AUSTON MILLER
PA:	CHARLOTTE MCLELLAND / JC Name
Drawn By:	Author
Checked By:	Project Checked By
Drawn Info:	

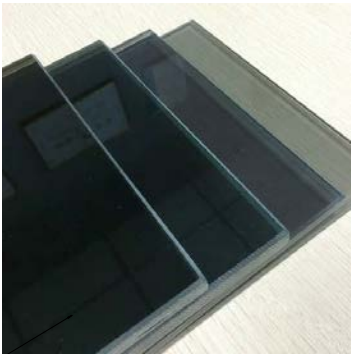
A710

EXTERIOR GLAZING &  
OPENING TYPES

Copyright © 2019 McCarthy Holtsapple McCarthy



GLAZING LEGEND
1. INSULATED CLEAR GLASS (TYPICAL UNLESS NOTED OTHERWISE)
2. SPANDREL GLASS - BLACK
3. INSULATED GLASS REPLACEMENT PANELS IN EXISTING WINDOWS
4. 90 MINUTE RATED GLASS
1. TEMPERED



BLACK SPANDREL- REFLECTIVE & OPAQUE

1 WINDOW TYPES  
3/8" = 1'-0"

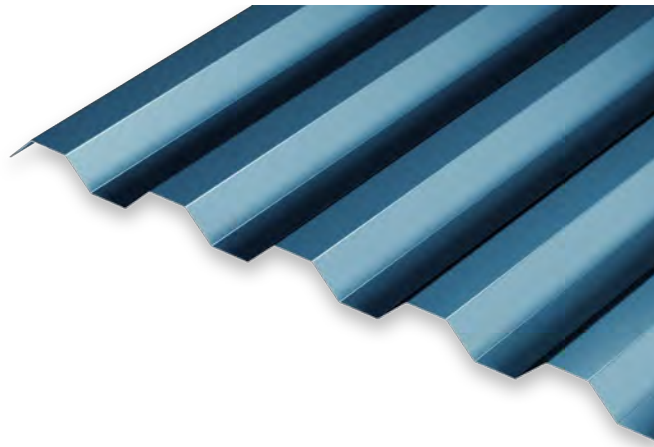
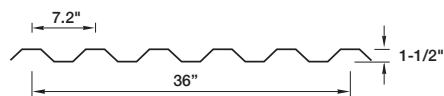
## 7.2 PANEL

### MATERIALS

.032 aluminum	24 gauge steel
.040 aluminum	22 gauge steel
.050 aluminum	Galvalume Plus

### SPECS

36" Wide 1-1/2" High



### PRODUCT FEATURES

- ▶ 30-year non-prorated finish warranty
- ▶ Matching screws and rivets
- ▶ Closure strips available
- ▶ Precut short lengths (5'-0" minimum)
- ▶ Panel lengths up to 38'

### MATERIAL

- ▶ 43 stocked colors (24 gauge steel)
- ▶ 15 stocked colors (22 gauge steel)
- ▶ 36 stocked colors (.032 aluminum)
- ▶ 22 stocked colors (.040 aluminum)
- ▶ 29 stocked colors (.050 aluminum)
- ▶ Galvalume Plus available

### FLORIDA BUILDING PRODUCT APPROVALS

Please refer to [pac-clad.com](http://pac-clad.com) or your local factory for specific product approval numbers for exposed fastener panels.





photo: Chuck Choi

# KALWALL<sup>®</sup>

high performance translucent building systems

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## FACADES

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Wall Systems

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Unitized Curtain Walls

---

Window Replacements

---





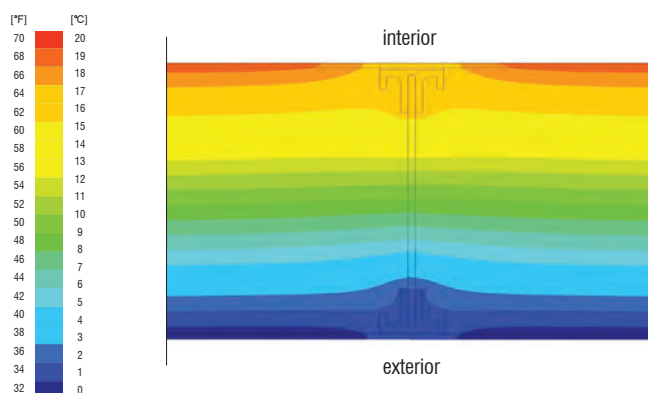
photo: Halkin|Mason Photography

University Heights Charter School | Newark, NJ USA | KSS Architects (above)

### Thermal Break Technology

For any high performance building envelope to perform optimally, careful consideration must be given to specify adequate levels of thermal insulation, minimize air infiltration, provide sufficient solar control, and eliminate thermal bridging to the greatest extent possible. To address potential thermal bridges, which can produce localized areas of higher heat transfer, Kalwall systems employ proprietary thermal break technologies for both the Kalwall panel and the Clamp-tite™ fastening system. The diagram on the right shows a thermal gradient, generated using THERM 7 software, to illustrate the effectiveness of the 2-3/4" (70 mm) Kalwall panel's thermally broken grid core.

### Thermal Gradient Analysis: 0.14 "U" (0.79 W/m²K) panel



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# Wall Systems

Translucent Wall Systems offer many budget-friendly, elegant side lighting solutions. From single story applications to mid-rise construction, Kalwall Wall Systems transform sunlight into glare-free daylight to enhance any space.

## Standard Wall Systems

For certain climate zones and building types, non thermally-broken Wall Systems provide sufficient envelope performance that is both cost effective and meets energy codes.

**Standard, aluminum interlocking I-beam panel grid core**

**Standard aluminum Clamp-tite™ fastening system**

**U-factors range from 0.53 - 0.18 (3.01 to 1.02 W/m²K)**

**Solar Heat Gain Coefficients (SHGC) from 0.65 to 0.10**

**Visible Light Transmission (VLT) values from 3% to 50%**

STANDARD SYSTEM | BACK FASTENED SYSTEM | CONCEALED FASTENERS | KALCURVE | 1-9/16" SYSTEM



## Thermally Broken Wall Systems

For more demanding climate zones and building types, Thermally-Broken Wall Systems provide enhanced envelope performance to meet or exceed the toughest energy codes.

**Thermally-broken, interlocking I-beam panel grid core**

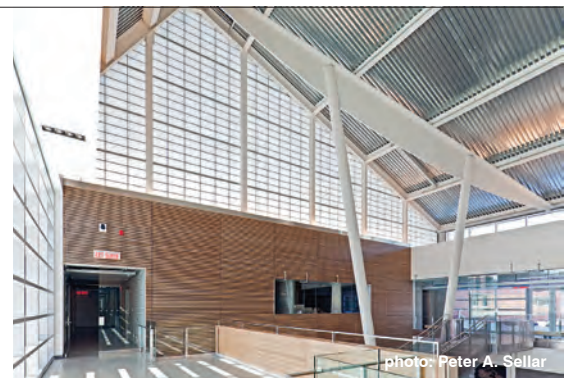
**Thermally-broken aluminum Clamp-tite™ fastening system**

**U-factors range from 0.23 - 0.05 (1.31 to 0.28 W/m²K)**

**Solar Heat Gain Coefficients (SHGC) from 0.28 to 0.10**

**Visible Light Transmission (VLT) values from 3% to 50%**

THERMAL BREAK+STRUT SYSTEM | BACK FASTENED SYSTEM | CONCEALED FASTENERS | KALWALL 100



## Specialty Applications

Kalwall offers many product configurations for projects that require special performance criteria to protect from extreme weather events and manage human safety+security

**Class A fire ratings available for Wall Systems and Unitized Curtain Walls**

**Windborne debris protection - tested and certified up to large missile D**

**Blast resistant systems meet DOD UFC 4-010-01 anti-terrorism force protection**

**Factory Mutual certified systems: Class I exterior wall FM 4881 & FM 4411**

**Factory Mutual explosion venting / pressure release systems: FM 4440**

WINDBORNE DEBRIS PROTECTION | EXPLOSION VENTING | ANTI-TERRORISM FORCE PROTECTION | FM CLASS I



Sports Hall | Bussy-Saint-Georges, France | Marc Duplantier Architectes (below)



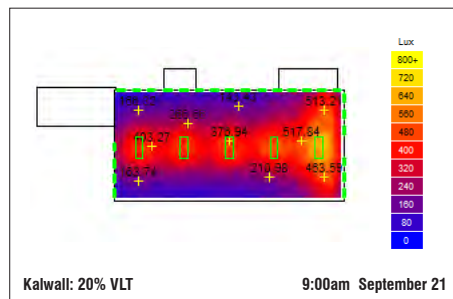
Please visit [KALWALL.COM](http://KALWALL.COM) for all wall system specifications, CAD details, BIM families & performance charts online



photo: Mark Herboth

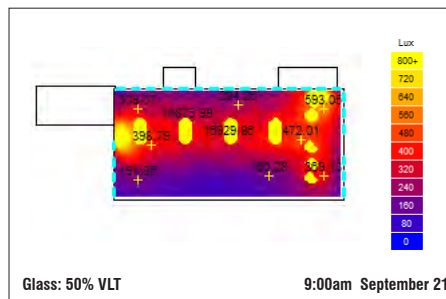
RDU International Airport Terminal | Raleigh-Durham, NC | Clark Nexsen Architects (above)

**Daylight Modeling Studies:** a complimentary service to optimize your daylighting design



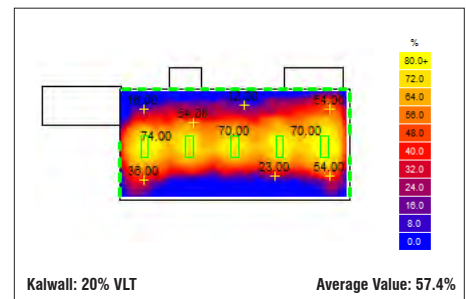
#### Radiance Illumination

Provides a “snapshot” of daylight levels at a given point in time. Typically, simulations are made to study light levels at the Fall and Spring Equinoxes during the early morning, at solar noon, and late in the afternoon on both sunny and overcast skies anywhere in the world.



#### Glare Pattern Analysis

Helps to identify potential problem areas where glare is a concern such as offices, classrooms, athletic facilities and other spaces where visual acuity is critical. These studies are especially useful when designers and specifiers call for a mix of translucent and vision glazing (glass).



#### Daylight Autonomy

Gives average daylight values and shows what percentage of the time the space can operate at the target light level with daylight alone. sDA (spatial daylight autonomy) and ASE (annual sunlight exposure) are all available for LEED® documentation for daylighting credits.

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# Unitized Curtain Walls

Unitized Curtain Walls can do everything Wall Systems can but, with the added benefits offered by factory unitization. In addition to translucent wall panels, designers can integrate fixed and operable windows, opaque panels and fixed louvers. From single-story window walls to multi-story curtain walls, Kalwall Unitized Curtain Walls provide modular daylighting solutions that balance aesthetics, performance, and cost.



## Factory Unitization

Large panel units, up to 5' x 35', are assembled and glazed at the factory. They can incorporate both translucent panels, fixed and operable vision glazing, as well as opaque panels and fixed louvers to provide superior fit, especially when compared to systems assembled in the field.



## Rapid Installation

Once delivered to the site, these large units can be installed rapidly in order to save both time and money. This approach also allows the building to be enclosed in a fraction of the time compared to conventional curtain wall systems allowing interior work to commence much earlier.



## Superior Performance

Once in service, unitized curtain walls offer higher levels of performance over the full lifetime of the system without sacrificing design flexibility. Perhaps, that is why architects, contractors, and owners alike can all reap the benefits without compromising their project goals.

Tintern Middle School | Melbourne, Australia | Architectus (below)

photo: Brendan Finn



Please visit [KALWALL.COM](http://KALWALL.COM) for all unitized curtain wall specifications, CAD details, BIM families & performance charts





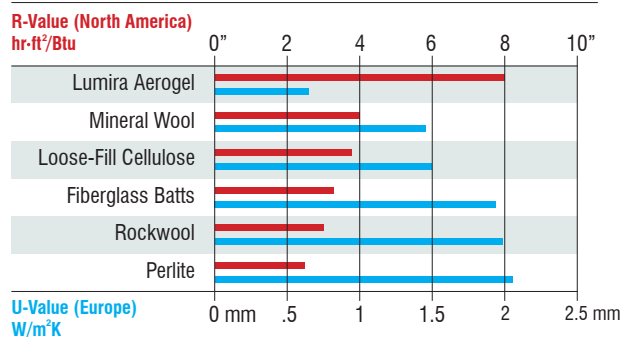
photo: Peter Aaron | OTTO

Yale Sculpture Building | New Haven, CT | Kieran Timberlake Architects | Double Skin Facade System with Schuco® and Kalwall+Lumira (above)

### Kalwall+Lumira® Aerogel

Aerogel is among the lightest and most effective insulating materials in the world. Cabot's Lumira aerogel is a solid which consists largely of air (>90%) contained in a structure with pore sizes less than the mean free path of air molecules, which severely inhibits heat transfer through the material, enabling world class performance. Cabot produces Lumira aerogel at its state-of-the-art manufacturing facility located near Frankfurt, Germany, where it began commercial production in 2003. Kalwall was the first company to offer Lumira aerogel in partnership with Cabot in its 2-3/4" (70 mm) translucent daylighting panel. Center of panel U-values of 0.05 (0.28 W/m²K)

### Thermal Insulation: values per inch (25 mm) of material tested



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# Window Replacements

Retrofits and Energy Upgrades with Kalwall Window Replacements result in dramatic savings by stopping heat loss and reducing electric light usage by offering glare free-usable diffuse daylight, eliminating the need for shades, and decreasing solar heat gain. Our high performance systems are very competitively priced, virtually maintenance free, and offer increased security compared to typical glass retrofits, for both increased impact resistance and vandalism.



## Window Replacement Systems

Kalwall Window Replacements offer budget-friendly fenestration options that deliver glare-free daylighting while simultaneously increasing energy performance and decreasing maintenance requirements. Delivered in unitized formats, specifiers can combine translucent and vision glazing to provide diffuse daylight, views and ventilation. Perfect for deep energy retrofit (DER) & renovations, these systems can be installed in existing rough openings rapidly, minimizing disruption to building occupants.

**Graffiti and vandal resistant face sheets including high impact options**

**Highly insulated to reduce heating+cooling costs from HVAC systems**

**Various head, sill & jamb detail options for retrofits in existing R.O.s**

**Much lower maintenance requirements compared to conventional glazing**

**Windborne debris protection - tested and certified up to large missile D**

## HC-2000 Windows

Kalwall manufactures its HC-2000 Windows for commercial and industrial applications where both budget and performance are primary drivers. HC-2000 windows have been engineered and tested to ensure reliability.

**HC-2000 available: fixed, project-in, project-out (max sizes vary)**

**HC-2000: AAMA/ANSI Performance Class: PI-AW50, PO-HC55, F-AW80**

## E-Series Windows

Kalwall manufactures its E-Series Windows for architectural applications where performance and craftsmanship are paramount. E-Series windows are engineered and tested for the most demanding applications.

**E-Series available: fixed, project-in, project-out (max sizes vary)**

**E-Series: AAMA/ANSI Performance Class: PI-AW60, PO-AW70, F-AW80**

**E-Series Large Missile Impact: Design pressure 80 PSF (3.83kPa) tested and certified to TAS 201, TAS 202, TAS 203, ASTM E1886 & ASTM E1996**

**STANDARD SYSTEM | THERMAL BREAK+STRUT SYSTEM | CONCEALED FASTENERS**



**Before Window Replacement**

Old, energy-inefficient single-pane glazing



**During Window Replacement**

Replacement system installed in existing R.O.s



**After Window Replacement**

New, energy-efficient Kalwall system in service.

Please visit [KALWALL.COM](http://KALWALL.COM) for all window replacement specifications, CAD details, BIM families & performance charts



# Experience the world's most advanced daylighting systems



Indoor Football Practice Facility, Clemson University | Clemson, SC | Infinity Architecture



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# Architect Series® Traditional Hung Window

## Size and Performance Data

		Clad LX	Wood LX	Clad SE			
Sizes							
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		●	●	●			
Performance <sup>1</sup>							
Meets or Exceeds AAMA/WDMA Ratings		H-CW30 - CW50 Hallmark Certified	H-CW30 - CW45 Hallmark Certified	H-CW30 - CW50 Hallmark Certified			
Air Infiltration (cfm/ft² 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			
HurricaneShield® Products with Impact-resistant Glass		CW - 60 Hallmark Certified	–	–			
Other Performance Criteria							
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		
Architect Series Wood LX window	WITH INTEGRAL GRILLES						
	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
	WITH REMOVABLE OR NO GRILLES						
	45" x 65"	11/16"	2.5 mm	2.5 mm	–	26	22
Architect Series Clad LX or SE window	45" x 65"	11/16"	3 mm	3 mm	–	29	24
	WITH INTEGRAL GRILLES						
	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
	WITH REMOVABLE OR NO GRILLES						
	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)
	HurricaneShield® Products with 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.



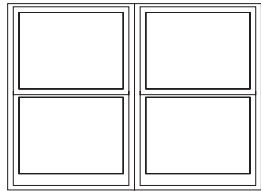
## Architect Series® Traditional Hung Window

### Combinations

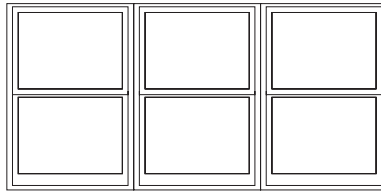
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullered together by a combination or reinforcing mullion.

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.

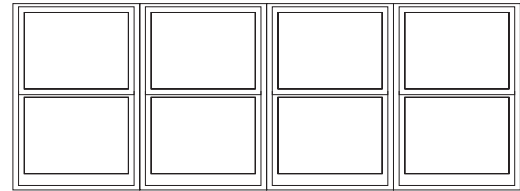
Contact your local Pella sales representative for more information.



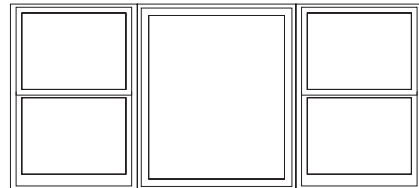
Two-Wide



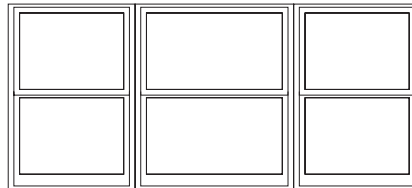
Three-Wide Equal



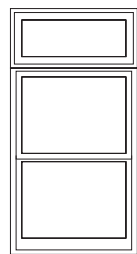
Four-Wide Equal



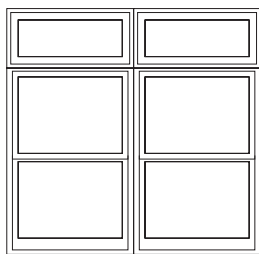
Center Fixed with Flankers



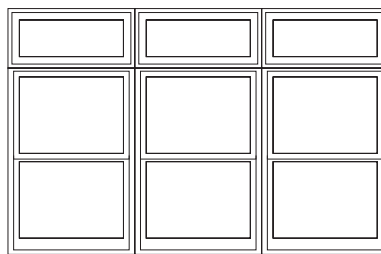
Three-Wide Unequal



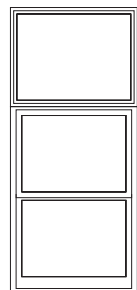
Transom over  
Single



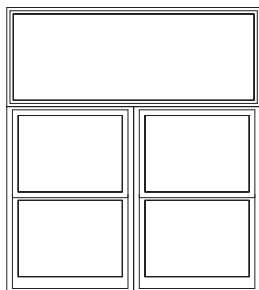
Two-Wide Transoms over  
Two-Wide



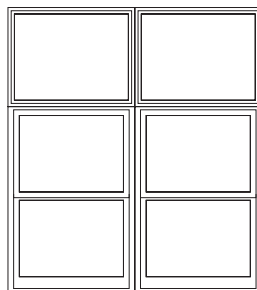
Three-Wide Transoms over  
Three-Wide



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.](#)

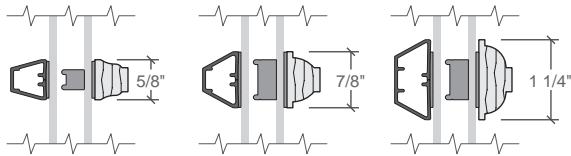


# Architect Series® Traditional Hung Window

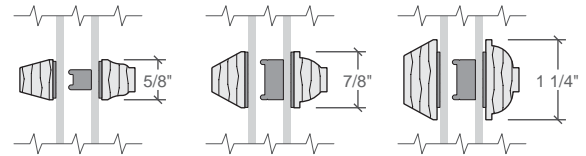
## Grille Profiles

### Integral Light Technology®

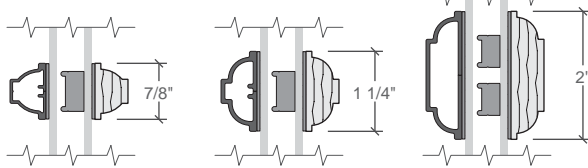
#### Putty and Ogee Glaze Grilles Clad Exterior - Wood Interior



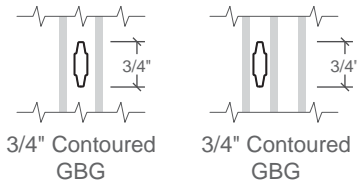
#### Putty and Ogee Glaze Grilles Wood Exterior - Wood Interior



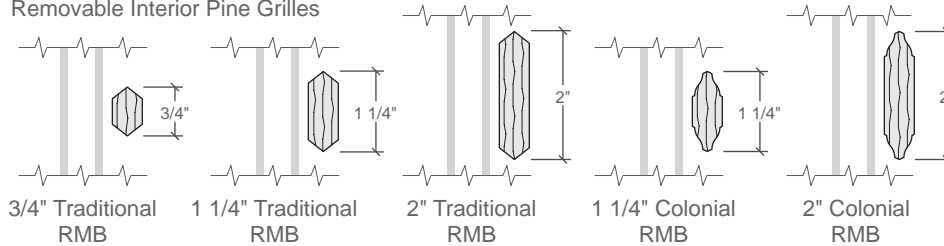
#### Ogee Glaze Grilles Clad Exterior - Wood Interior



#### 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.

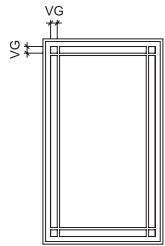


## Architect Series® Traditional Hung Window

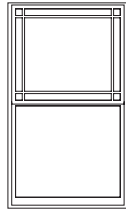
### Grille Patterns

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

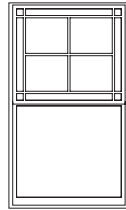
##### Prairie Lite Patterns



9-Lite  
(Fixed Units)



9-Lite



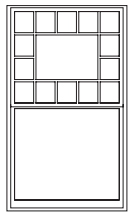
12-Lite

Standard corner lite dimension for Prairie patterns  
= 2-1/2" VG.

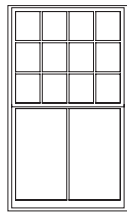
Available in transoms ≥ 1'3" height and width.

Available in all standard and special sizes.

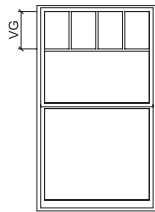
##### Other Available Patterns



Victorian



New England



Top Row



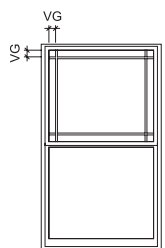
Traditional

VG = Visible Glass

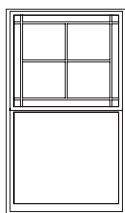
Lite dimensions noted can vary.

For size and pattern availability contact your local  
Pella sales representative.

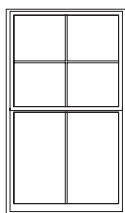
#### Grilles-Between-the-Glass



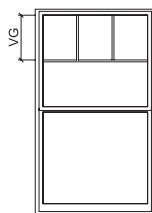
9-Lite  
Prairie



12-Lite  
Prairie



Cross



Top Row

##### 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.



























































# Architect Series® Traditional Hung Window

## Size Tables - Equal Sash

### Fixed Transoms

	Opening	(552) (533)	(654) (635)	(756) (737)	(857) (838)	(959) (940)	(1 060) (1 041)	(1 162) (1 143)	(1 238) (1 219)
		1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"	3' 9 3/4"	4' 0 3/4"
	Frame	1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
		1' 2"	1' 2"	1' 2"	1' 2"	1' 2"	1' 2"	1' 2"	1' 2"
(375) (356)	1' 2 3/4"								
(451) (432)	1' 5 3/4"								
(654) (635)	2' 1 3/4"								

### Vent Units

(908) (889)	2' 11 3/4"								
(1 060) (1 041)	3' 5 3/4"								
(1 213) (1 194)	3' 11 3/4"								
(1 365) (1 346)	4' 5 3/4"								
(1 467) (1 448)	4' 9 3/4"								
(1 518) (1 499)	4' 11 3/4"								
(1 670) (1 651)	5' 5 3/4"								

#### Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. You should consult your local building code to ensure products with Rolscreens meet egress requirements.

### Opening Dimensions

Clad exterior units:

Dimensions shown in standard size tables are rough opening dimensions.

Wood exterior units:

Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
	Width	Height	Width	Height
Brickmould				
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with HurricaneShield® impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.





# Architect Series® Traditional Hung Window

## Special Sizes and Dimensions

### Special Size Frame Dimension<sup>1</sup>

Sash configuration	Vent-equal	Cottage	Fixed
Sash Glass Ratio Top % : Bottom %	50 : 50	40 : 60	NA
Shortest Unit Frame Size	24-3/8" (889)	42-1/4" (1 073)	17" (432)
Tallest Unit Frame Size	96" (2 438)	81" (2 057)	71" (1 803)
Unit Frame Width Range	14" to 48" (533 to 1 219)	21" to 48" (533 to 1 219)	17" to 59" (432 to 1 499)

### Opening Dimensions

Clad exterior units:  
Dimensions shown in standard size tables are rough opening dimensions.

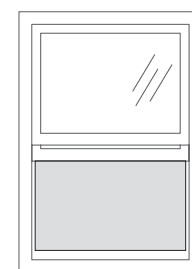
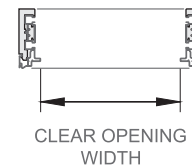
Wood exterior units:  
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood sub sill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+ 1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+ 1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with HurricaneShield® impact-resistant glass, see the product installation instructions or refer to local building code requirements.

### Equal Sash Only

	Vent Units	Fixed and Transom Units
Visible Glass	Width = Frame - 5.75" Height <sub>2</sub> = (Frame - 8.1875") ÷ 2	Width = Frame - 5.75" Height = Frame - 5.75"
Actual Glass	Width = Frame - 4.375" Height <sub>2</sub> = (Frame - 5.5") ÷ 2	Width = Frame - 4.375" Height = Frame - 4.375"
Clear Opening*	COW = Frame Width - 3.4375" COH = (Frame Height ÷ 2) - 4.4375"	—
Vent Area Ft <sup>2</sup>	(COW x COH) ÷ 144	—



Shaded portion shows vent area.

(1) Available within size range shown.

(2) Per sash.

\* Some units with custom glazing may have limited travel.

See your local Pella sales representative for specific size information.



# 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 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced Low-E] [SunDefense™ Low-E] [AdvancedComfort] [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]<sup>1</sup>.
- or –
- 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]<sup>1</sup>.

### Interior

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

### 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] <sup>1</sup>].
  - 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<sup>2</sup>
  - 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<sup>3</sup>] [Brown<sup>3</sup>] [Putty<sup>3</sup>] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
  - Exterior colors is [standard]<sup>1</sup>.
- or –
- Roomsides 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] <sup>1</sup>].
  - Exterior [unfinished, ready for site finishing] [factory primed] [finish color matched to exterior claddings].

#### Screens

- InView™ screens
  - [Half-Size] [Full-Size<sup>4</sup>] 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.
- or –
- Vivid View® screens
  - [Half-Size] [Full-Size<sup>4</sup>] 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.

#### 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.

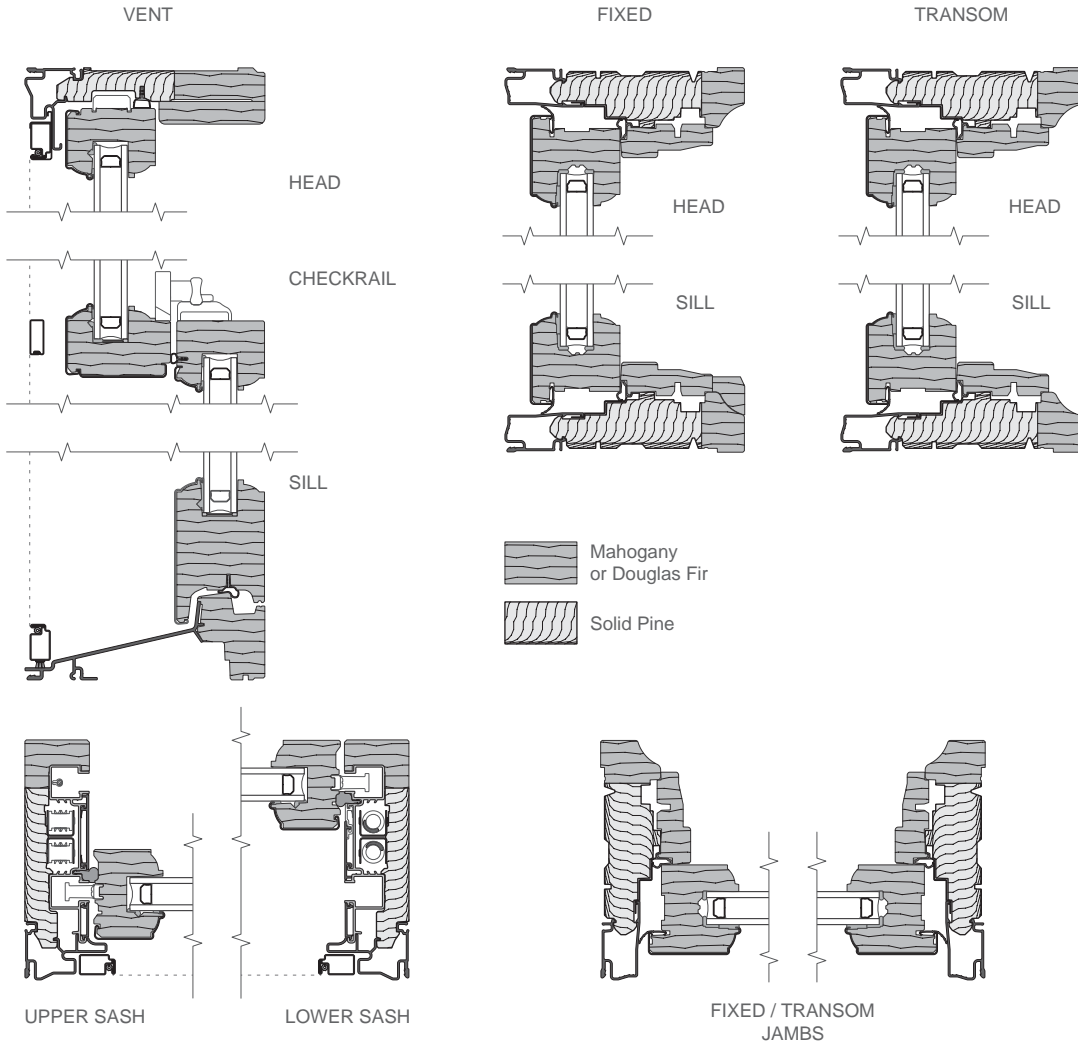
(4) Full screens are available on units ≤ 96" height.

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



Architect Series® Traditional Hung Window

Unit Sections – Wood Collection



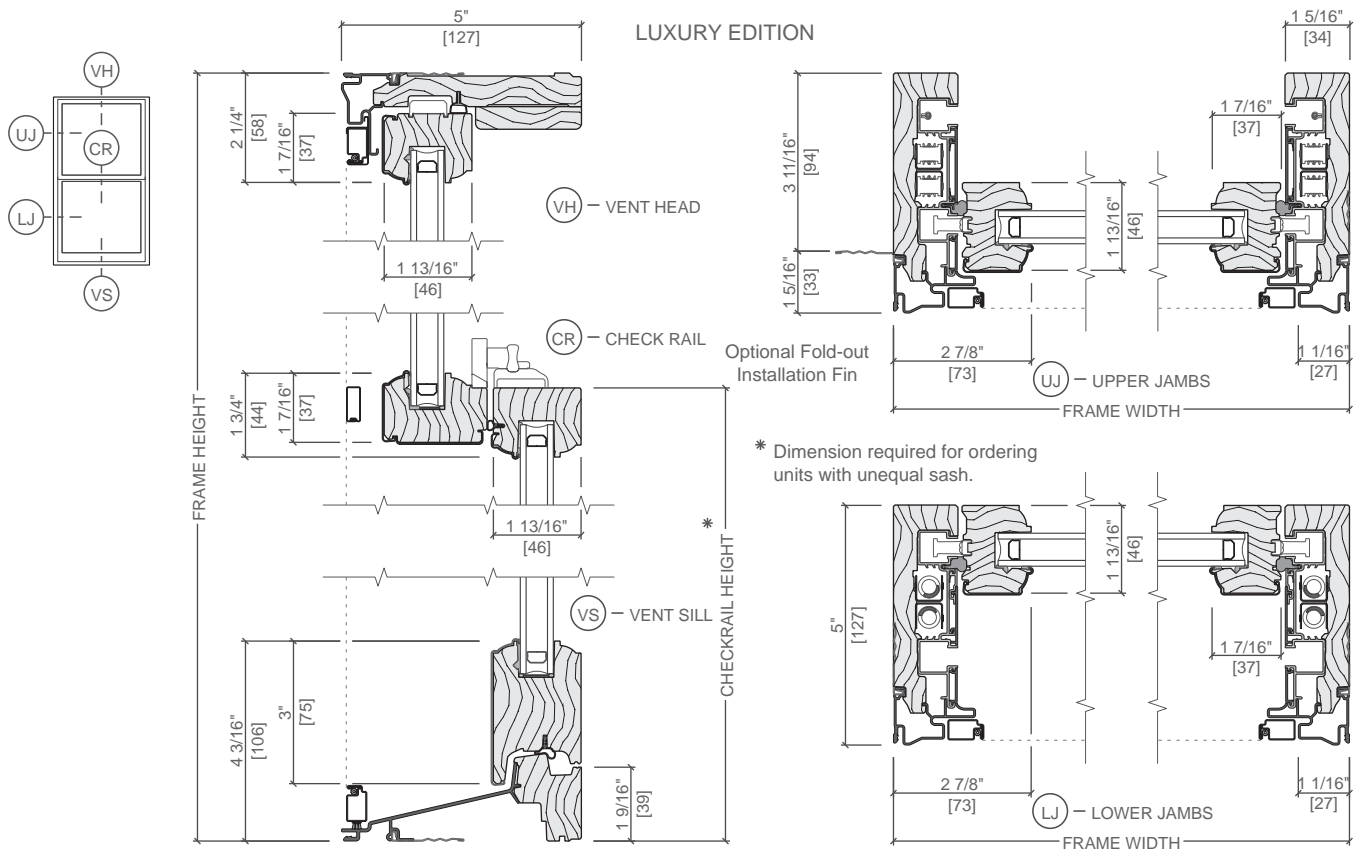
Scale 3" = 1' 0"





## Architect Series® Traditional Hung Window

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



Scale 3" = 1' 0"

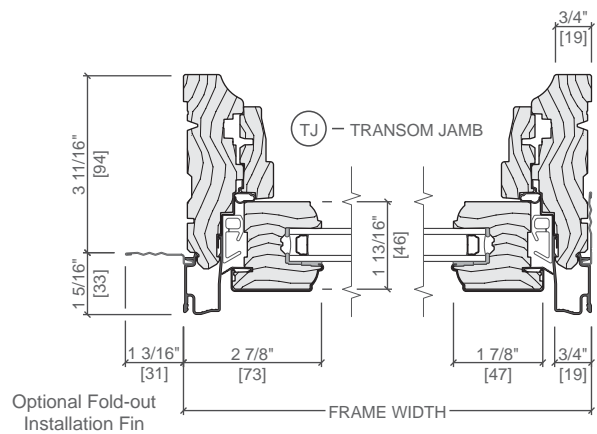
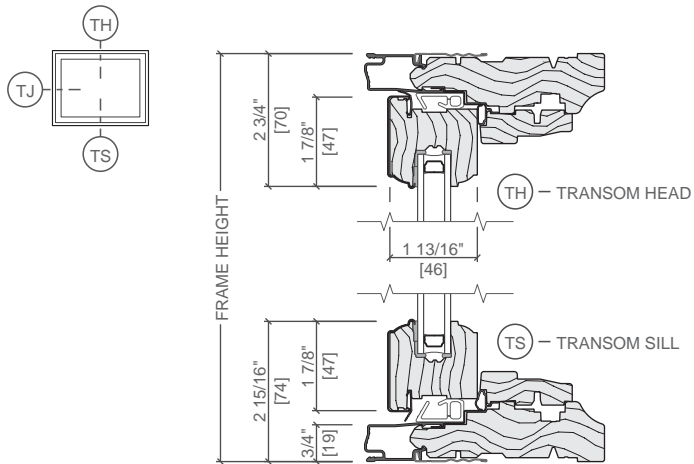
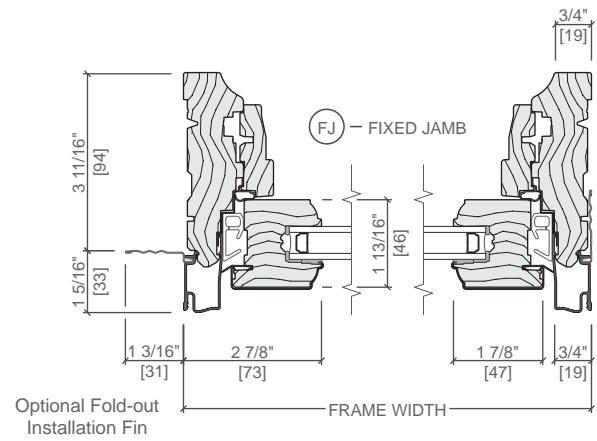
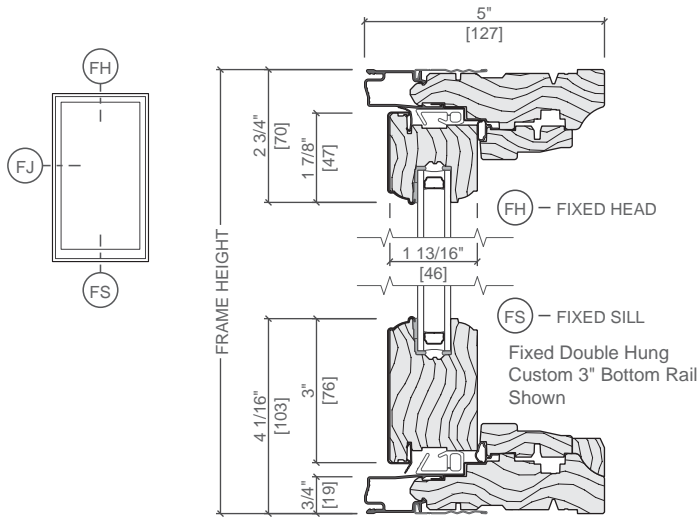
All dimensions are approximate.



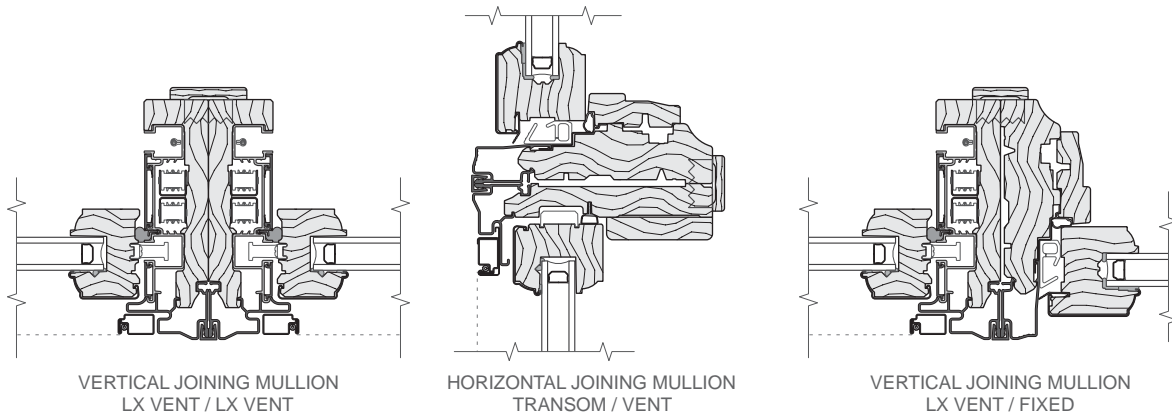


# Architect Series® Traditional Hung Window

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



### Typical Joining Mullions



Scale 3" = 1' 0"

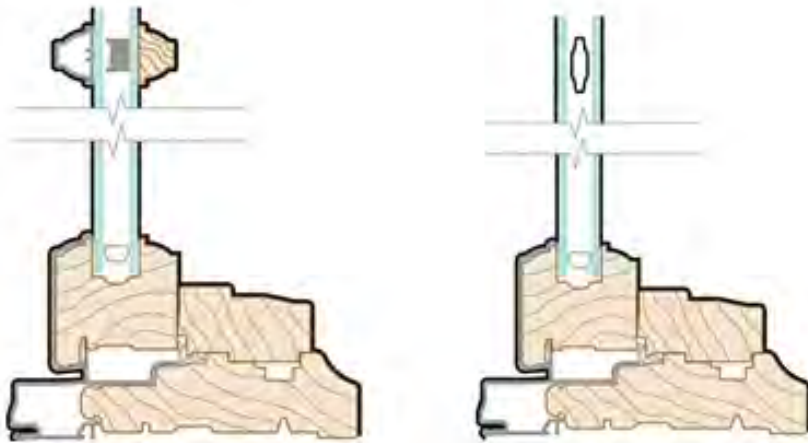
All dimensions are approximate.

See [www.PellaADM.com](http://www.PellaADM.com) for mullion limitations and reinforcing requirements.



## Glazing - Architect Series Traditional Fixed Sash and Frame Window

Pella's widest variety of glazing systems and options provide optimal design, performance and budget flexibility.



### Insulating glass options include:

- Advanced Low-E Insulating Triple-Pane Glass with Krypton or Argon
- Advanced Low-E with argon\*
- SunDefense™ Low-E with argon\*
- NaturalSun Low-E with argon\*
- Clear
- Laminated
- Impact-resistant
- Tinted
- Reflective
- Spandrel glass or panels
- Obscure
- Tempered
- Custom



*\*Optional high-altitude Low-E insulating glass may not contain argon in most products.*