

**STAFF REPORT FOR THE HISTORIC RESOURCES COMMISSION MEETING OF  
SEPTEMBER 8, 2023**

**FILE NO: HRC-2023-0324**

**AGENDA ITEM: 5.B**

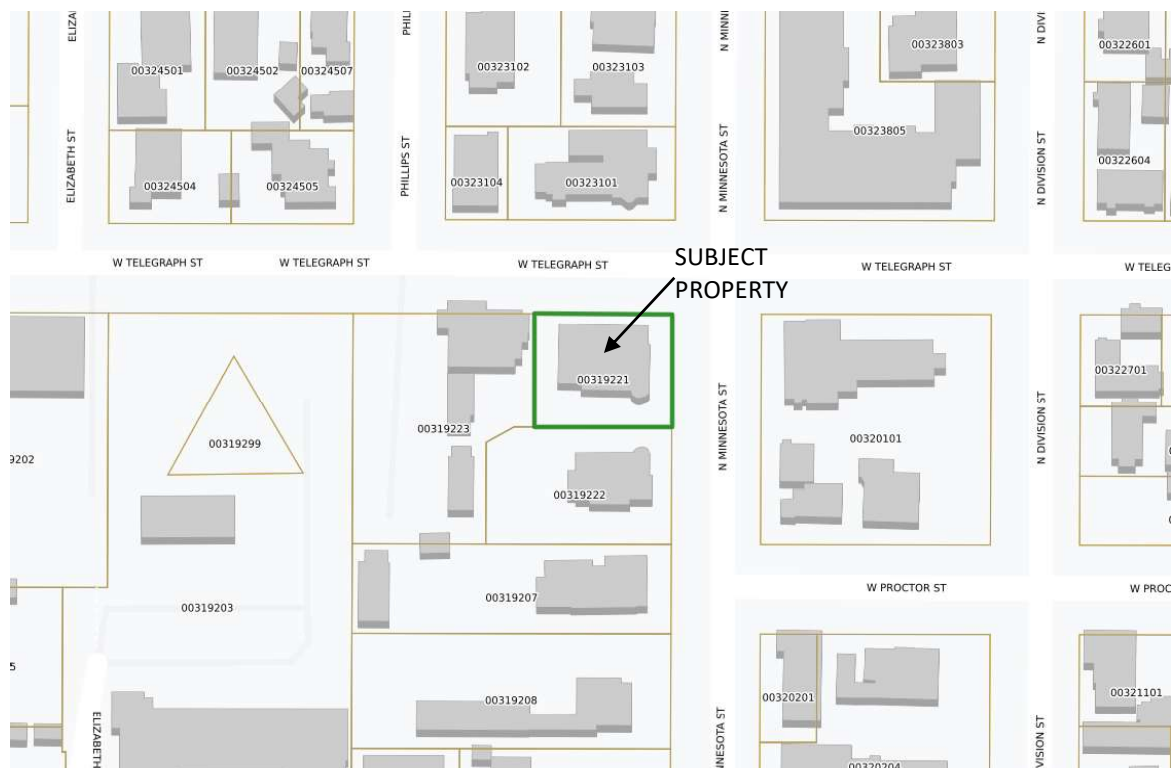
**STAFF CONTACT:** Heather Ferris, Planning Manager

**AGENDA TITLE:** For Possible Action: Discussion and possible action regarding a request by Belfor Property Restoration ("Applicant") to allow for the reconstruction and restoration of the historic Lee Residence located at 340 N. Minnesota Street, Assessor's Parcel Number ("APN") 003-192-21. (Heather Ferris, [hferris@carson.org](mailto:hferris@carson.org))

**Staff Summary:** In October 2022 there was a significant fire at 340 N. Minnesota Street, leaving the historic building uninhabitable. The Applicant, on behalf of the property owner, is seeking to rebuild the structure maintaining and restoring features of the structure that are salvageable. The Applicant is proposing to reconstruct the original structure. The existing foundation, main level floor, and porch deck framing will remain, as well as the original north side fireplace and chimney. These remaining features will be cleaned, repointed and structurally repaired as necessary. Site work will extend onto the adjacent property at 505 W. Telegraph (APN 003-192-23), also part of the Resource Concepts, Inc., ("RCI") campus. Work will include new accessible ramps and railings from the parking lot at 505 W. Telegraph to the accessible lift at the rear of 340 N. Minnesota. The Commission will review the request to determine if the request is consistent with the Development Standards for the Historic District.

**RECOMMENDATION:** I move to approve HRC-2023-0324, based on the finding that the request is consistent with the design guidelines for the historic district and the Secretary of the Interior Standards as noted in the staff report.

**VICINITY MAP**



**CONDITIONS OF APPROVAL IF THE COMMISSION APPROVEST THE REQUEST:**

1. All development shall be substantially in accordance with the attached site development plan.
2. All on and off-site improvements shall conform to city standards and requirements.
3. The use for which this permit is approved shall commence within 12 months of the date of final approval. An extension of time must be requested in writing to the planning and community development department 30 days prior to the 1-year expiration date. Should this request not be initiated within 1 year and no extension granted, the request shall become null and void.
4. The applicant must sign and return the notice of decision within 10 days of receipt of notification. If the notice of decision is not signed and returned within 10 days, then the item will be rescheduled for the next historic resources commission meeting for further considerations.
5. Prior to issuance of the certificate of occupancy, the applicant shall have signage placed on-site identifying the building as a contemporary re-creation. The signage shall be subject to administrative review and approval by the Chair of the Historic Resources Commission.

**LEGAL REQUIREMENTS:** Carson City Municipal Code ("CCMC") 18.06.015 (Procedure for Proposed Project)

**MASTER PLAN DESIGNATION:** Mixed-Use Residential ("MUR")

**ZONING:** Residential Office ("RO")

**PREVIOUS REVIEWS:**

H-89/90-7- approval of placement of a new unlit sign.

HRC-2023-0004- update from RCI regarding status of the structure following October 2022 fire.

HRC-2023-0132- administrative approval to demolish the fire damaged building.

**DISCUSSION:**

The subject building was constructed in 1907. The structure was 1 ½ stores in height and combined various forms and elements of Colonial Revival. The foundation is of coursed stone and the siding is shiplap with patterned shingles in the gables. The roof is both hipped and gabled with a conical roof on the south end of the porch. This site was occupied by the Central School until the property was purchased by Dr. S.L. Lee in 1906. Lee demolished the Central School building and utilized the materials to build the house.

The house was converted into an office building and housed Resource Concepts, Inc. since 1978. In October 2022, there was a significant fire at the subject property, leaving the historic building uninhabitable. Since the fire, the property owners have been working with the City and a property restoration company. As a result of the fire, the only portions of the original structure that will remain is the foundation, existing main level floor and porch deck framing, and the fireplace and chimney on the north side of the building.

The applicant is proposing to reconstruct the structure using the same form and finishes to match the original, using replicated and/or salvaged materials. There will be subtle modifications made from the original to integrate current building code requirements, including



accessibility. An accessible ramp will provide an accessible path of travel from the parking lot at 505 W Telegraph, and a lift will be located at the rear of the reconstructed building. The three historic exterior lights on the property (two at the front entrance to the property and on in the rear) will be repaired and retained. The majority of the picket fencing is still in place with the exception of a small portion which is currently in storage and will be reinstalled with the reconstruction of the building.

### Secretary of the Interior Standards for Reconstruction

Per the Secretary of the Interior standards for reconstruction, reconstruction is defined the act or process of depicting, by means of new construction, the form, features, and detailing of a non-surviving site, landscape, building, structure, or object for the purpose of replicating its appearance at a specific period of time and in its historic location.

#### Standards for Reconstruction

1. Reconstruction will be used to depict vanished or non-surviving portions of a property when documentary and physical evidence is available to permit accurate reconstruction with minimal conjecture and such reconstruction is essential to the public understanding of the property.

*The proposed reconstruction of the Lee house will be used to depict the historic structure as it existed prior to the October 2022 fire. The structure is well documented in photographs and the property owners have worked with restoration specialists to salvage and/or recreate items to ensure accurate reconstruction.*

2. Reconstruction of a landscape, building, structure or object in its historic location will be preceded by a thorough archeological investigation to identify and evaluate those features and artifacts which are essential to an accurate reconstruction. If such resources must be disturbed, mitigation measures will be undertaken.

*A fire left the structure uninhabitable. The demolition of the structure was administratively approved by the HRC on April 11, 2023. It was determined that the bulk of the structure was not salvageable; however, the foundation, northern chimney and fireplace, and porch and main floor framing have been salvaged. Additionally, the property owner has worked with restoration specialists to salvage and/or recreate cornices, frieze, and eave detailing.*

3. Reconstruction will include measures to preserve any remaining historic materials, features, and spatial relationships.

*The applicant is proposing to reconstruct the structure on the remaining preserved foundation. The reconstruction will use the same form and finishes to match the original, using replicated and/or salvages materials including salvaged and/or recreated cornices, frieze, and eave detailing. The original fireplace and chimney have also been retained.*

4. Reconstruction will be based on the accurate duplication of historic features and elements substantiated by documentary or physical evidence rather than on conjectural designs or the availability of different features from other historic properties. A reconstructed property will re-create the appearance of the non-surviving historic property in materials, design, color and texture.

*The reconstruction will be based on the accurate duplication of the historic features and elements of the property. The structure is well documented in photographs and the property owners have worked with restoration specialists to salvage and/or recreate items to ensure accurate reconstruction. The applicant is proposing to reconstruct the structure on the*

*remaining preserved foundation. The reconstruction will use the same form and finishes to match the original, using replicated and/or salvages materials including salvaged and/or recreated cornices, frieze, and eave detailing. The original fireplace and chimney have also been retained.*

5. A reconstruction will be clearly identified as a contemporary re-creation.

*Staff is recommending a condition of approval requiring signage to be placed at the property, prior to issuance of the certificate of occupancy, identifying the building as a contemporary re-creation.*

6. Designs that were never executed historically will not be constructed.

*The applicant is proposing to reconstruct the structure on the remaining preserved foundation. The reconstruction will use the same form and finishes to match the original, using replicated and/or salvages materials including salvaged and/or recreated cornices, frieze, and eave detailing. The original fireplace and chimney have also been retained. Mechanical systems and features such as accessible lifts and ramps will be inconspicuously placed.*

#### Carson City Development Standards

**Carson City Development Standards 5.14 addresses guidelines for roofs. It states:**

##### *5.14 - Guidelines for roofs.*

*The roof's shape, the roofing material and its special features are extremely important in defining the building's overall architectural style. Many different historic roof shapes are found in the district: gable, hip, gambrel, mansard, shed and flat. The pitch or slope of the roof changes from style to style. Shed roofs were used extensively for additions to buildings. The type and style of roof features also change with the building style. Brick and stone chimneys, cresting and a variety of dormers are also found in the district. Sawn or milled wood shingles of cedar or redwood are the predominate historic roofing materials within the district. Few tiles and no slate roofs have been found. Standing seam or corrugated metal were used on outbuildings.*

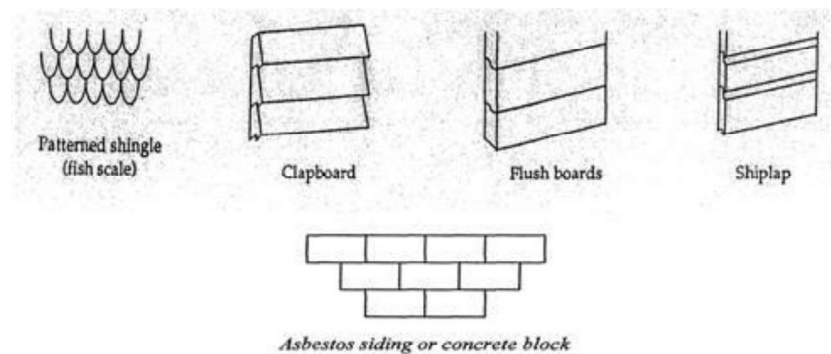
*5.14.1 Guidelines for Historic Buildings. Original roofing material and features are to be retained and repaired if at all possible. **If new roofing is necessary or desired, the preferred treatment is to replace the original with identical new material.** If this is not possible or desirable, then the use of Fireclass A, organic felt or fiberglass matt composition type shingle, preferably in a "thick butt" design is acceptable. These are to be laid approximately five inches to the weather with straight and true exposed edge lines. **Other roof features such as chimneys, dormers and/or decorative elements are to be retained.** New mechanical systems, solar panels, skylights and/or other devices on the roof are to be placed so they are inconspicuous from the Street and in such a manner that no damage is done to any character defining features of the building.*

The building will be reconstructed to match the original roof shape, slopes and overhangs. The roof will be framed in the original "cut and stack" style. The same asphalt shingle roofing material that was on the house and matches the remainder of the RCI campus will be utilized.

**Carson City Development Standards 5.15 addresses guidelines for exterior siding material. It states:**

##### *5.15 - Guidelines for exterior siding materials.*

The exterior siding materials found in the district include the full range of materials used in the 19th to mid 20th centuries. The most typical is a horizontal wood siding. Generally a horizontal "drop" (shiplap) or clapboard was used. It was not uncommon for milled shingles to be utilized to accent gable ends or other similar portions of a structure. Often these shingles were decorative in nature having sculptured ends so that a variety of textural effects could be achieved. The entire structure was never covered with shingles. Mid-century houses used wide shakes and asbestos shingles. A few residences utilized brick, stone, concrete block or stucco. Other exterior sidings include vertical board and batten and corrugated sheet or standing seam metal. These were typically used on outbuildings. Brick, cut stone and rubble stone masonry and/or combinations were used primarily on commercial buildings. Historically, buildings in the district were painted, often in several colors - they were not stained or left "natural." The colors varied and often several colors were used on the same building to highlight the architectural design. Currently, there are paints as well as opaque stains available for exterior finishes. The HRC can provide assistance to owners wishing more information regarding paint and/or stain colors.



**5.15.1 Guidelines for Historic Buildings. The original exterior siding material shall be retained and repaired when at all possible.** When replacement is necessary the new material shall match the original in size, design, composition and texture. The use of steel, aluminum and vinyl siding materials is not appropriate for historic buildings. (Standard Number: 6, 2)

**When contemplating work on the exterior of a historic building, cleaning the existing material should be the first step to determine its condition and a course of action.** Cleaning shall be by the gentlest means possible. Sandblasting and other cleaning methods which cause damage to original historic materials shall not be undertaken. (Standard Number: 7)

The reconstruction will use the same form and finishes to match the original, using replicated and/or salvaged materials including salvaged and/or recreated cornices, frieze, and eave detailing. The original siding was tongue and groove. The reconstruction will also be clad in tongue and groove siding with trim details to match the original.

**Carson City Development Standards 5.16 addresses guidelines for windows. It states:**

**5.16 - Guidelines for windows.**

The majority of buildings in the Historic District are characterized by 19th century styles of architecture. A basic design characteristic of these styles is symmetrically placed, vertically proportioned windows. Houses built in the 1930s to 1960s used in addition to the above, metal framed windows such as casements and picture windows.

**5.16.1- Guidelines for Historic Buildings. Original windows shall be retained and repaired when at all possible. When replacement is necessary a window of duplicated design shall be used. The size, pane configuration, design and trim shall replicate that of the original.** Original trim and surrounds are to be retained when windows are replaced. Bronzed aluminum framed windows are not appropriate for use in a historic building. Stained glass windows were

*not commonly used in the buildings of the district. Original stained glass windows are very valuable and should be retained. The addition of stained glass windows into openings which did not historically have stained glass is discouraged. (Standard Number: 2, 6)*

The original windows were not salvageable following the fire. The applicant is proposing new wood framed, low-E windows to match the original size, location, and pane configuration. Windows will be trimmed to match the original.

**Carson City Development Standards 5.17 addresses guidelines for doors. It states:**

*5.17 - Guidelines for doors.*

***Doors are an important design element of any building. Their location and style contributes to the overall character and frequently act to define the style of the building. Typically even the simplest historic homes have beautifully paneled doors. Original doors have often been replaced by newer inappropriate doors under the false assumption that greater energy efficiency can be achieved. Properly executed repairs and/or replacement of jams, thresholds, stop moldings, hinges and weather stripping will achieve the same energy efficiency and maintain the historic value. Older doors may have dried and shrunk in size. Numerous lock sets, latches and/or strike plates may have been installed in the door. Glass panels may have been removed and replaced with wood or other material. Original doors, however, are probably one of the most easily reconstructed elements of a building. They are generally constructed of high quality materials, most often have design characteristics which are unavailable in today's market and can be easily removed from the building for repairs in a specialized shop.***

The original doors were lost in the fire. The applicant is proposing new wood exterior doors to closely match the originals. Doors will be trimmed to match the original.

**Carson City Development Standards 5.18 addresses guidelines for masonry elements. It states:**

*5.18 - Guidelines for masonry elements.*

***Masonry elements found in the historic district include brick or cut stone foundations, porches and/or basements, and entire stone or brick buildings. Some masonry retaining walls and/or fences are also found. Masonry as an architectural design element generally produces a powerful visual image and imparts a sense of permanence and strength. Careful consideration, therefore, needs to be given all designs which incorporate masonry elements.***

***5.18.1 Guidelines for Historic Buildings. The original masonry material shall be retained and repaired when at all possible. When replacement is necessary the new material shall match the original in size, design, composition and texture. Often repointing the original masonry elements is all that is necessary. When repointing, it is imperative to determine the composition of the original mortar. Repointing historic masonry with a contemporary mortar mix containing Portland cement can cause severe damage to the building. Repointing should be accomplished with a mortar that matches the original in color, composition and strength. (Standard Number: 6, 2)***

The fireplace and chimney on the north side of the structure was saved, as well as the original stone foundation. Both will be retained and repointed as necessary with the reconstruction.

**Carson City Development Standards 5.19 addresses guidelines for porches. It states:**

*5.19 - Guidelines for porches.*

***Porches constitute a significant architectural feature of any building; they are a character defining design feature. The placement, style, scale, massing and trim detail of porches in***

Carson City reflect a wide range of architectural styles. Because of their architectural impact porches are of particular concern in the historic district. A porch of inappropriate scale, placement and/or design, added to a historic building which did not have a porch originally, can be particularly detrimental to the historic integrity of the building and the character of the district as a whole. Conversely porches can be effectively utilized as a building feature in new construction to create a contemporary architectural design compatible with the historic district's character.

**5.19.1 Guidelines for Historic Buildings. A porch that is part of the original design of a historic building shall be maintained in its original configuration, design, style and detailing if at all possible. If suitable documentary evidence can be presented which demonstrates the original existence of a porch which no longer exists, the porch may be reconstructed to match the original as best as possible. If a porch cannot be demonstrated to have originally existed on the building, a porch may be added with the condition that the configuration, design, style and detailing are suitable and compatible with the architectural style of the building and does not adversely impact the historic integrity of the building. Any new additions to the building shall be performed in such a manner that if removed in the future the original building will not be adversely affected. (Standard Number: 2, 3, 4, 5, 6, 9, 10)**

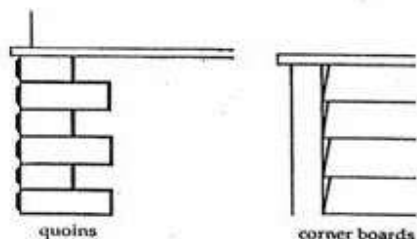
As a result of the fire, the only portions of the original structure that will remain is the foundation, existing main level floor and porch deck framing, and the fireplace and chimney on the north side of the building. The applicant is proposing to reconstruct the structure using the same form and finishes to match the original. The porch will be reconstructed to match the original porch including the conical roof at the southwest corner of the porch.

**Carson City Development Standards 5.20 addresses guidelines for trim details. It states:**

**5.20 - Guidelines for exterior trim details.**

Although often perceived to be insignificant or frivolous, trim details play a very important part of defining a building's character. Designs for new buildings as well as additions and/or alterations to historic buildings should incorporate the appropriate trim details. The detailing can act to harmonize a building with its neighbor or tie a new addition to the original. Within the architectural styles represented in the district the following exterior trim details can be identified:

- a) Brackets
- b) Boxed cornice with eave returns
- c) Decorated cornice
- d) Decorated bargeboards
- e) Quoins
- f) Corner boards
- g) Spindle/spool millwork
- h) Pediments
- i) Dentils
- j) Columns



**5.20.1**

**Guidelines for Historic Buildings. Original trim elements should be retained and repaired**

***when at all possible. Trim that is inconsistent with the original building style and design shall not be added. (Standard Number: 2, 3, 5, 6)***

The applicant is proposing to recreate the same trim utilizing the salvaged trim details as templates.

**Carson City Development Standards 5.21 addresses guidelines for additional architectural features. It states:**

*5.21 - Guidelines for additional architectural features.*

*In review of the distinctive architectural features of the styles represented in the district, the following additional architectural features are exhibited. Designs for new buildings as well as additions or alterations to historic buildings can effectively incorporate one or more of the following design elements.*

***5.21.5 Barrier Free Handicapped Access. The accommodation of ramps, elevators, lifts and other building elements designed to allow handicapped access can be a difficult design problem. Scale, massing, proportion, detailing and balance all need to be carefully considered. (Secretary of Interior Standard Number: 2, 9, 10)***

An accessible ramp will provide an accessible path of travel from the parking lot at 505 W. Telegraph, and a lift will be located at the rear of the reconstructed building. Placement of these features are inconspicuous.

Attachments:

Application (HRC-2023-0324)  
Historic Resources Inventories

<b>FILE #</b>		<b>Carson City Planning Division</b> 108 E. Proctor Street Carson City, NV 89701 Phone: (775) 887-2180 Email: <a href="mailto:planning@carson.org">planning@carson.org</a>	
<b>APPLICANT</b> Belfor Property Restoration	<b>PHONE #</b> (775) 434-3200	<b>HISTORIC RESOURCES COMMISSION</b> (CCMC 18.06)  SUBMITTAL PACKET: – Email completed packet to <a href="mailto:planning@carson.org">planning@carson.org</a> or submit 1 Unbound Original and an electronic copy including: <ul style="list-style-type: none"> <li>Signed Application Form</li> <li>Site Plan</li> <li>Building Elevations</li> <li>Spec Sheet(s) on Proposed Building Material(s)</li> </ul> Submittal Deadline: Historic Resources Commission application submittal <a href="#">schedule</a> .  Note: Submittals must be of sufficient clarity and detail for all departments to adequately review the request. Additional information may be required.	
<b>MAILING ADDRESS, CITY, STATE, ZIP</b> 50 Artisan Means Way Suite B Reno, NV 89511			
<b>EMAIL ADDRESS</b> Chris.nelson@us.belfor.com			
<b>PROPERTY OWNER</b> Carolyn McLain - Trustee	<b>PHONE #</b> (775) 883-1600		
<b>MAILING ADDRESS, CITY, STATE, ZIP</b> ATTN: Bruce Scott 340 N. Minnesota Street, Carson City, NV 89703			
<b>EMAIL ADDRESS</b> bruce@rci-nv.com			
<b>APPLICANT'S AGENT</b> Chris Nelson	<b>PHONE #</b> (775) 224-7292		
<b>MAILING ADDRESS, CITY, STATE, ZIP</b> 50 Artisan Means Way Suite B, Reno, NV 89511			
<b>EMAIL ADDRESS</b> Chris.nelson@us.belfor.com			
Project's Assessor Parcel Number(s):  003-192-21	Street Address  340 N. Minnesota Street, Carson City, NV 89703		
Describe in detail the work to be performed requiring Historic Resources Commission review and approval. If necessary, attach additional sheets.			
This project entails rebuilding the fire ravaged Lee Residence. Previously this historic residence had been converted to an office building.			
It is this occupancy we will be reconstructing. The structure's form and finishes will be recreated to match the original; the existing			
foundation will remain, as will the existing main level floor and porch deck framing. The original north side fireplace and chimney will remain			
as well. From there the existing wall heights, door and window locations, roof slopes and overhangs will match the original. The roof will be			
framed in the original "cut and stack" style of the original residence using modern lumber. The original eave and verge detailing, cornices			
and frieze will be replicated using materials salvaged from the fire as templates. The most recent paint colors (body and trim) will be used,			
along with the asphalt shingle roofing, as these match the remainder of the campus and was the current palette. Please see the attached			
for additional response.			
Will the project involve demolition or relocation of any structure within or into the Historic District? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    If Yes, please describe:			
Owner's Signature  _____ Jeremy Drew, Principal / Partner		Applicant's/Agent's Signature  _____ Applicant's/Agent's Printed Name	
Owner's Printed Name			

In reconstructing the structure, the following items will be integrated delicately. These are requirements of the building code and the ADA to bring the overall structure into as close of compliance as possible.

- The porch walking surface will be raised 2.5" to allow for the .5" maximum threshold height. This also corrects the top step of the stair not meeting the building code requirements.

- To meet current code for required height for commercial guardrails for decks greater than 30" above finished grade, the porch railing should be raised from 35" to 42". The building owners would prefer leaving the railing at 35" to remain consistent with the historic appearance of the building.

- Handrails of the correct height will be added at the stairs with extensions wrapped around the newel posts to create the required 12" extension.

- A wheelchair lift is being added in the southwest corner of the building from a new series of walkways on-site. The lift is in a location where it cannot be viewed from the street and is in the best position to meet the ADA standard for access to ingrees points of the structure from the required accessible path.

- The site is being modified with the addition of a ramp from the parking lot and a path from the north sidewalk. Both of these connect to the wheelchair lift noted above. This creates the accessible path on site for ADA compliance.



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Carson City, NV

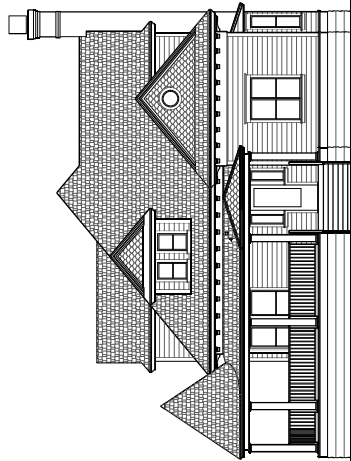
340 N Minnesota Street  
A.P.N.: 003-192-21

Brandt T. Kennedy, P.E.  
Jared A. Krupa, P.E.

Revisions	Date	06/29/2023
△	Drawn	K2
△	Checked	IAK
△	Project No.	22-386

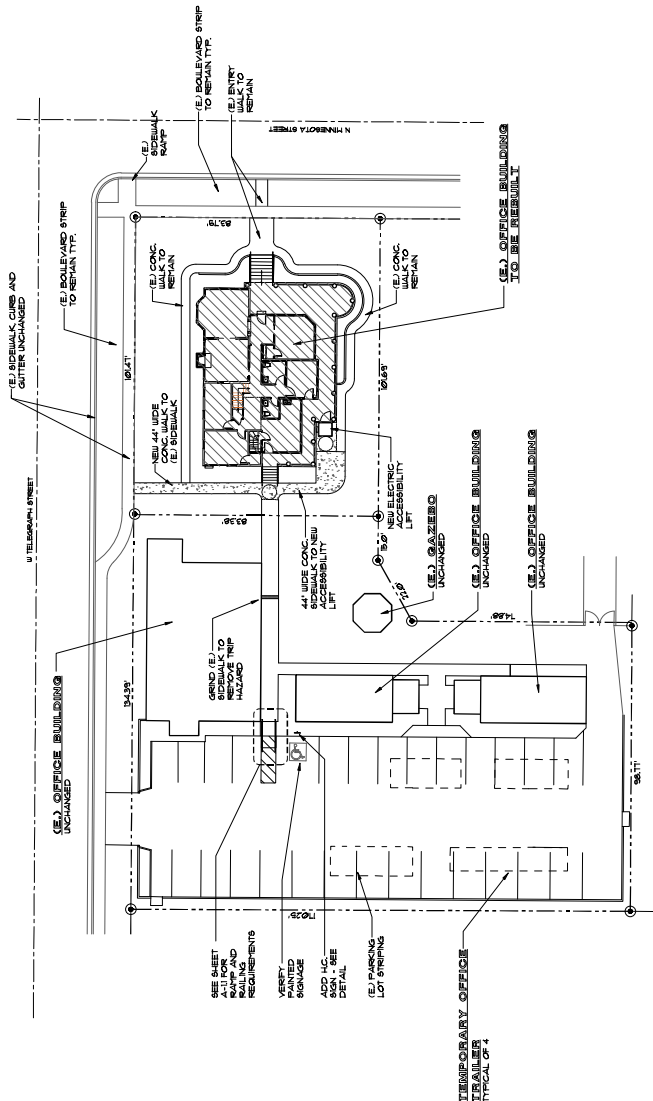
Cover Sheet

A-0

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**Grading Note:**  
SITE DISTURBANCE LESS THAN 50 CUBIC YARDS, NO GRADING REQUIRED.



**SITE PLAN**  
SCALE: 1" = 20'-0"





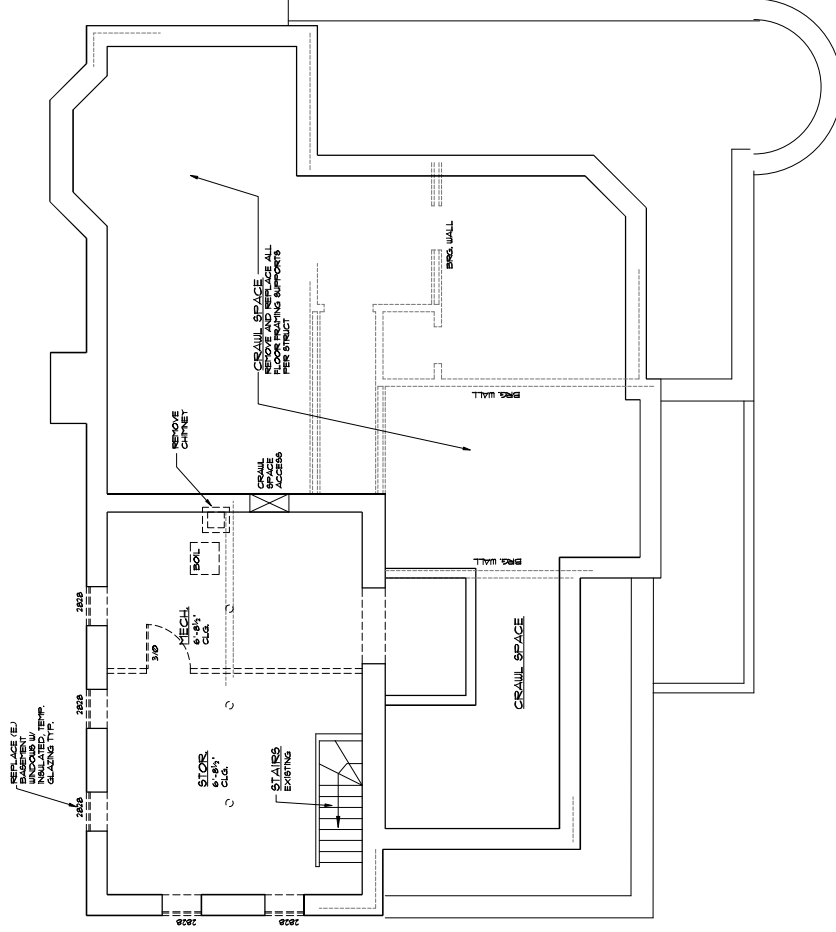
Brandt T. Kennedy, P.E.  
Jared A. Krupa, P.E.

Revisions	
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Δ	
Δ	

Date	06/29/2023
Drawn	K2
Checked	IAK
Project No.	22-386

## Basement Demolition Plan

A-2



**BASEMENT DEMO PLAN**  
SCALE 3/4" = 1'-0"

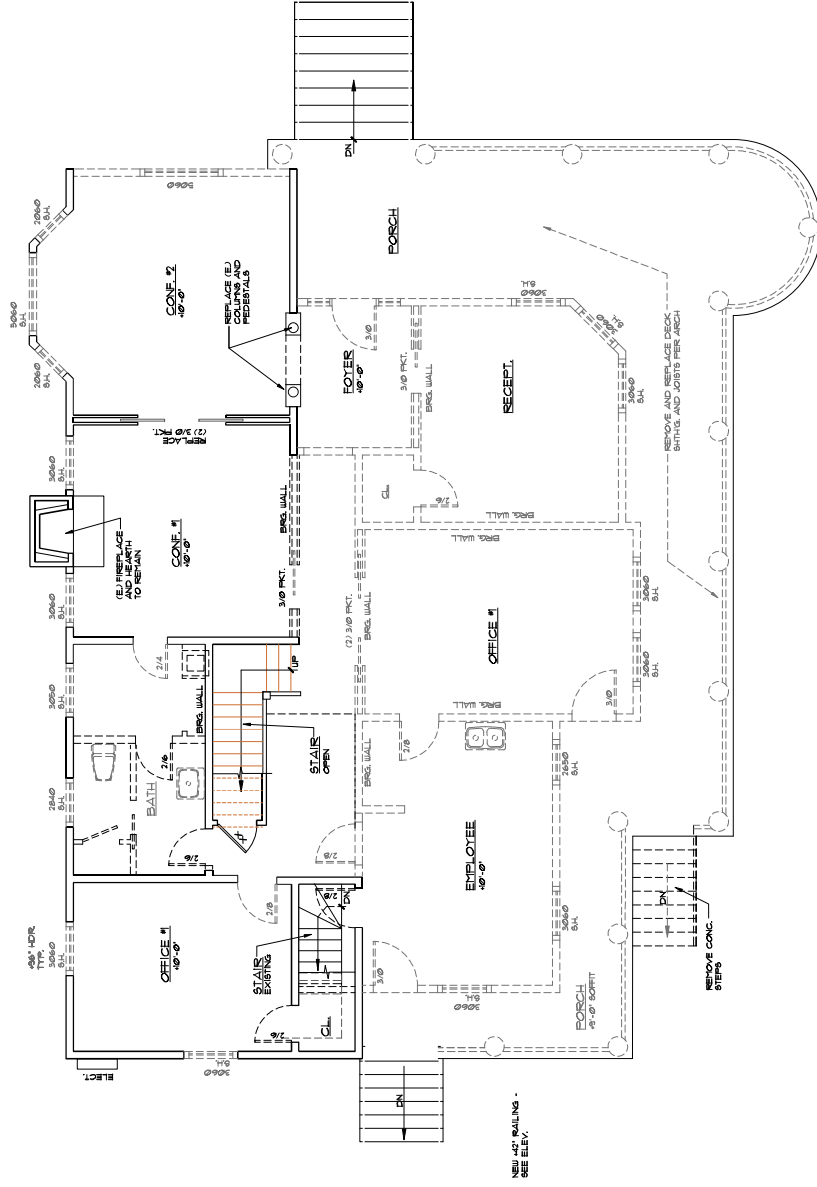


Brandt T. Kennedy, P.E.  
Jared A. Krupa, P.E.

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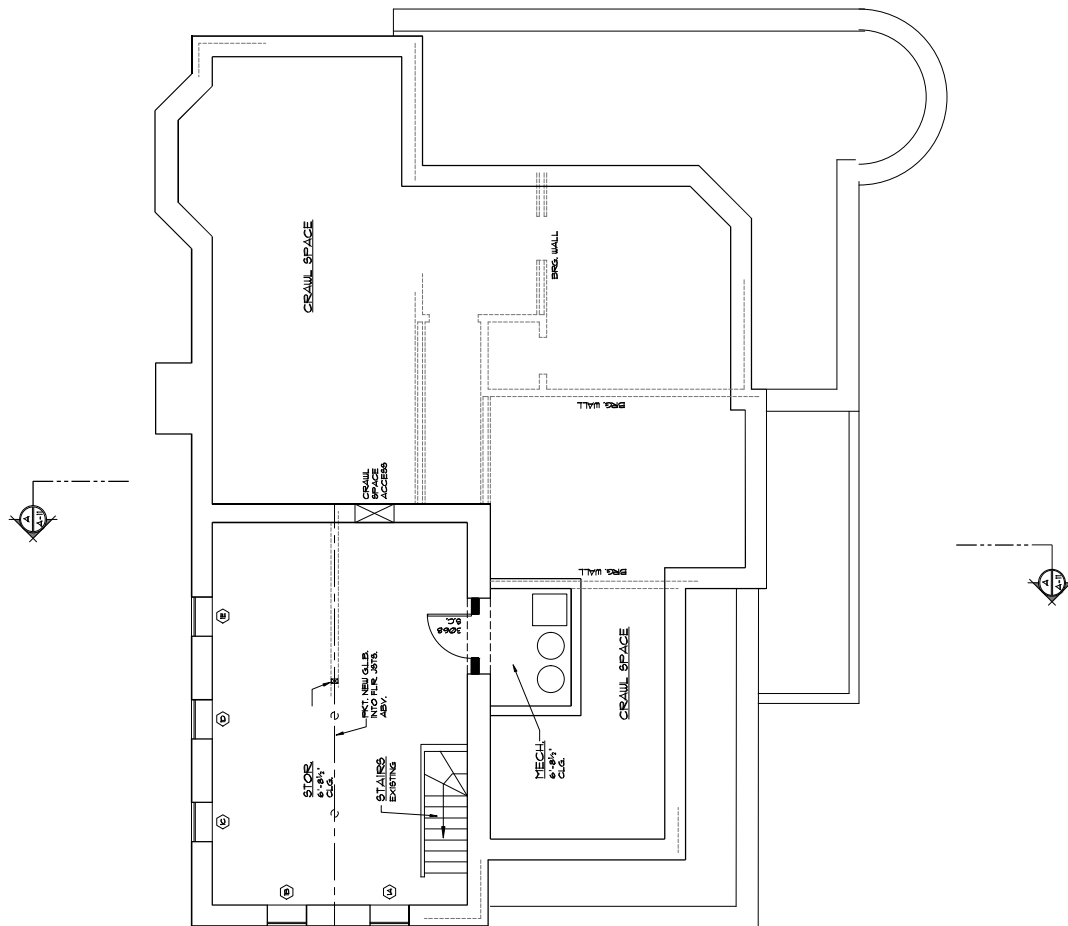
## Main Level Demolition Plan

A-3



MAIN LEVEL DEMO PLAN  
SCALE 1/4" = 1'-0"

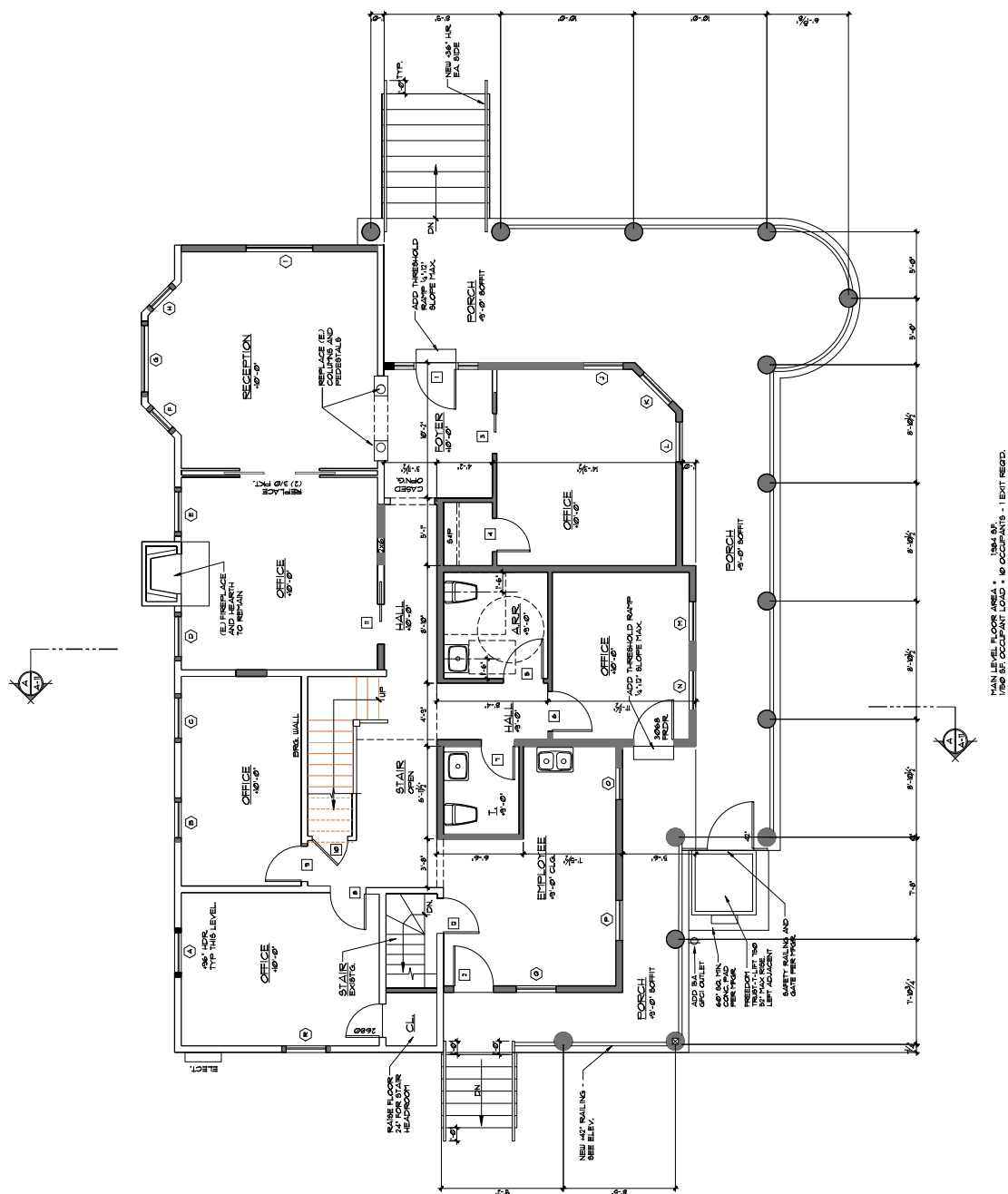
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Date 06/29/2023	
Drawn	K2
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Project No.	22-386



**BASEMENT FLOOR PLAN**  
SCALE: 1"=6'

MECH AREA = 501 SF.

Revisions	
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Date	06/29/2023
Drawn	K2
Checked	JAK
Project No.	22-386

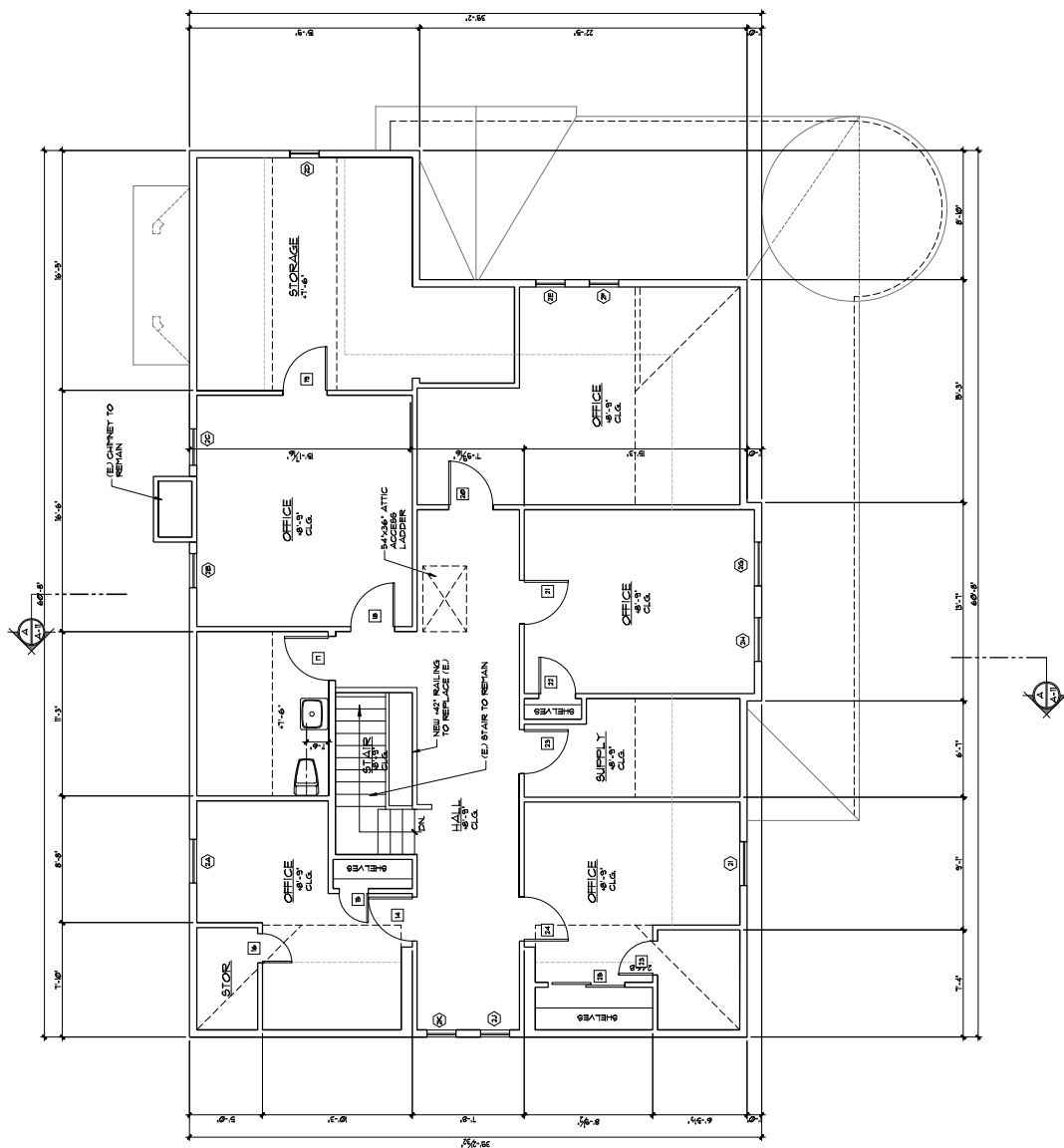


# MAIN LEVEL FLOOR PLAN

MAIN LEVEL FLOOR AREA =	1984 SF.
UPPER LEVEL FLOOR AREA =	1915 SF.
TOTAL FLOOR AREA =	3899 SF.

MAIN LEVEL FLOOR AREA = 1984 S.F.  
NO. OF OCCUPANT LOAD = 10 OCCUPANTS - 1 EXIT REQD.

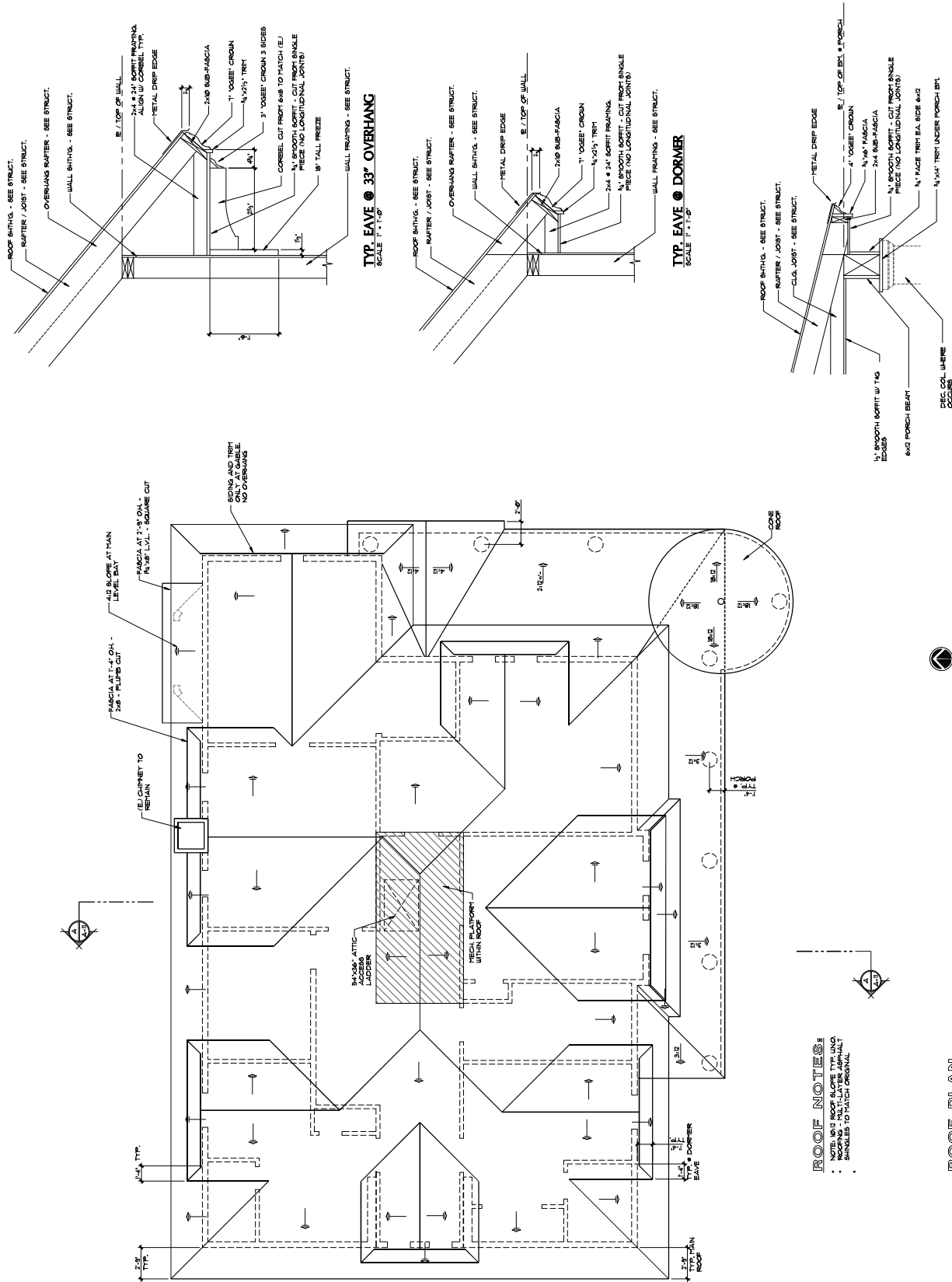
Revisions		
Δ	Date	06/29/2023
Δ	Drawn	K2
Δ	Checked	IAK
Δ	Project No.	22-386



UPPER LEVEL FLOOR PLAN  
SCALE 1/4" = 1'-0"

UPPER LEVEL FLOOR AREA = 1935 SF.  
FLOOR AREA GREATER THAN 1'-0" TALL = 1428 SF.  
1/150 SF. OCCUPANT LOAD = 10 OCCUPANTS - 1 EXIT REQ'D.



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

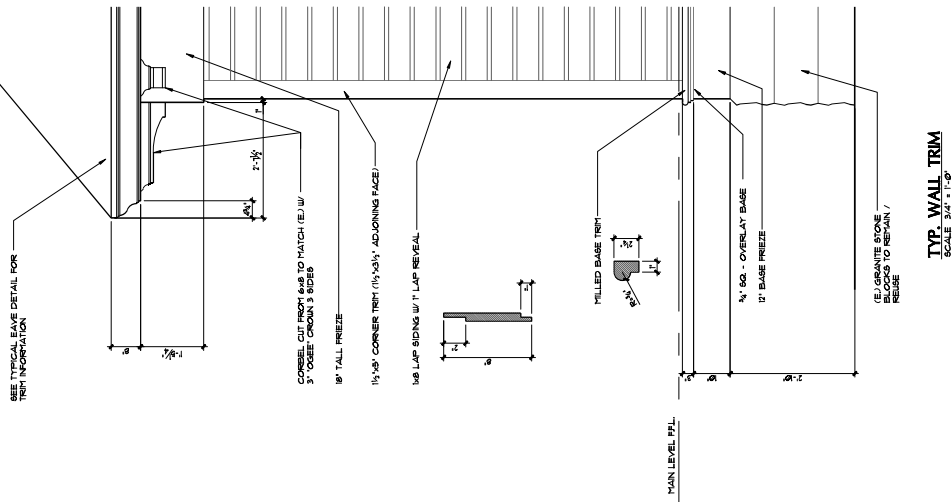
**ROOF NOTES:**

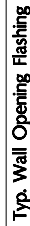
- NOTE: 10:12 ROOF SLOPE TYP. UNO.
- ROOFING - MULTI-LAYER ASPHALT SHINGLES TO MATCH ORIGINAL

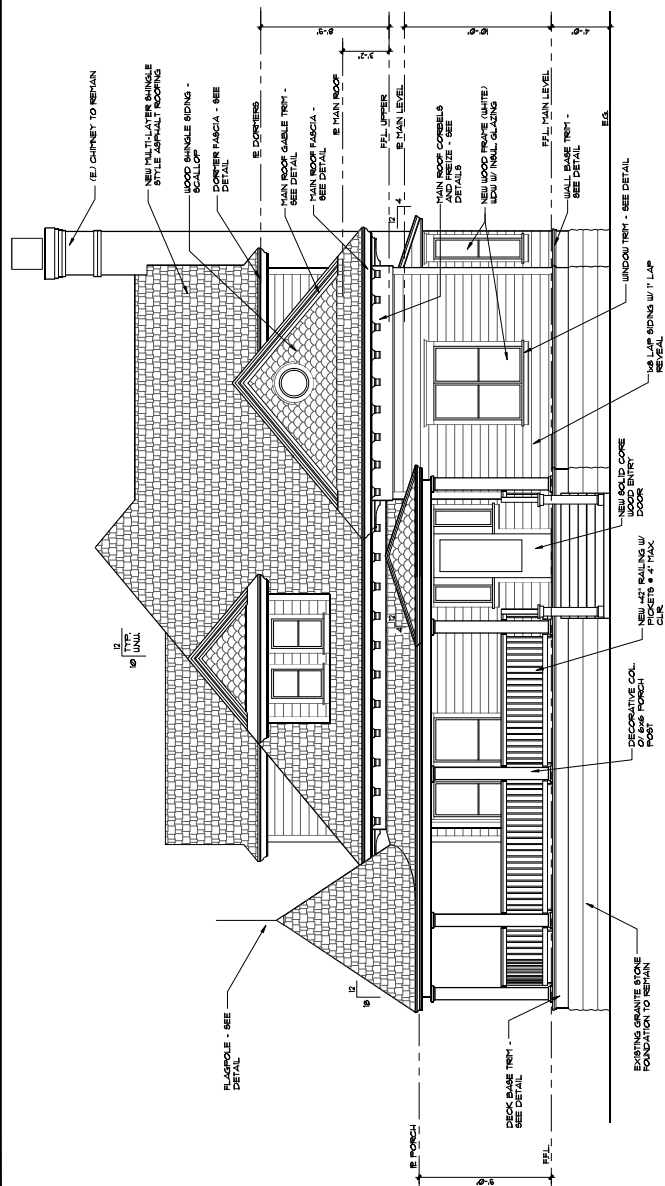
**DOOR SCHEDULE**

MAN LEVEL - EXTERIOR				MAN LEVEL - INTERIOR		MAN LEVEL - POB / PAINTED	
1	2	3	4	5	6	7	8
SIZE	TYPE	1/2 LITE	1/2 LITE	3/4 LITE	3/4 LITE	POB	PAINTED
1	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
2	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
3	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
4	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
5	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
6	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
7	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
8	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
9	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
10	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
11	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
12	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
13	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
14	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
15	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
16	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
17	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
18	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
19	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
20	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
21	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
22	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
23	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
24	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
25	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
26	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
27	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
28	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
29	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD
30	30x60	HINGE	HINGE	HINGE	HINGE	WOOD	WOOD

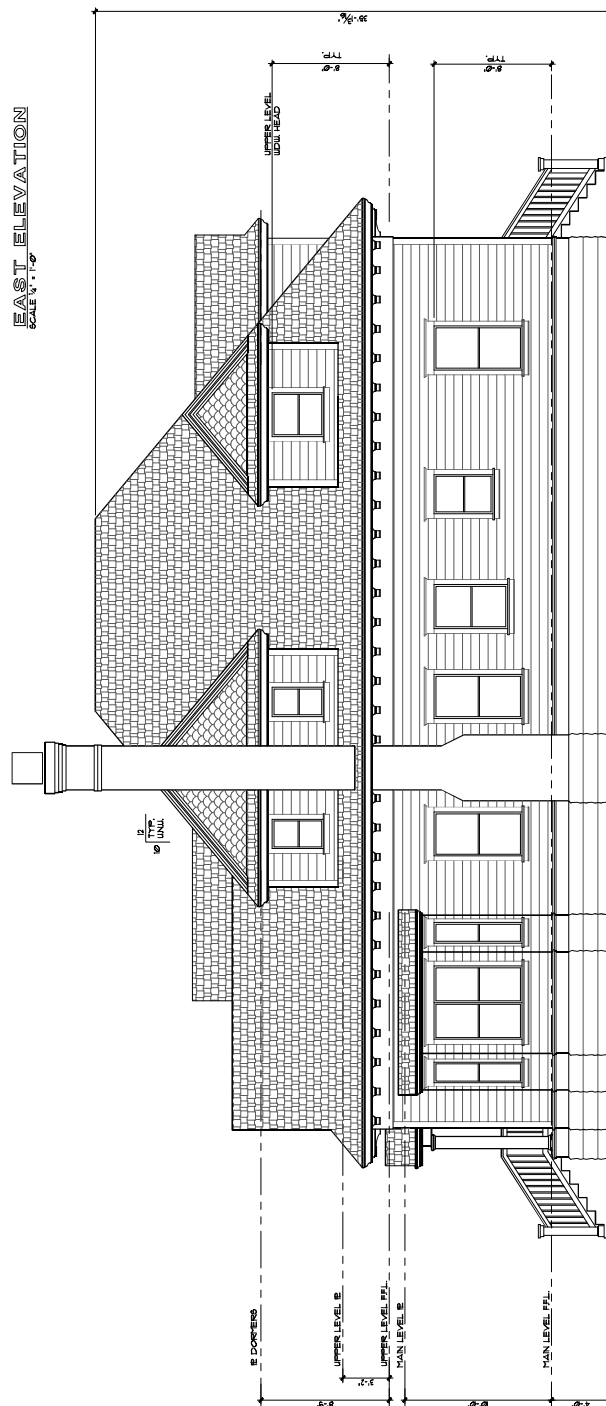
## WINDOW SCHEDULE

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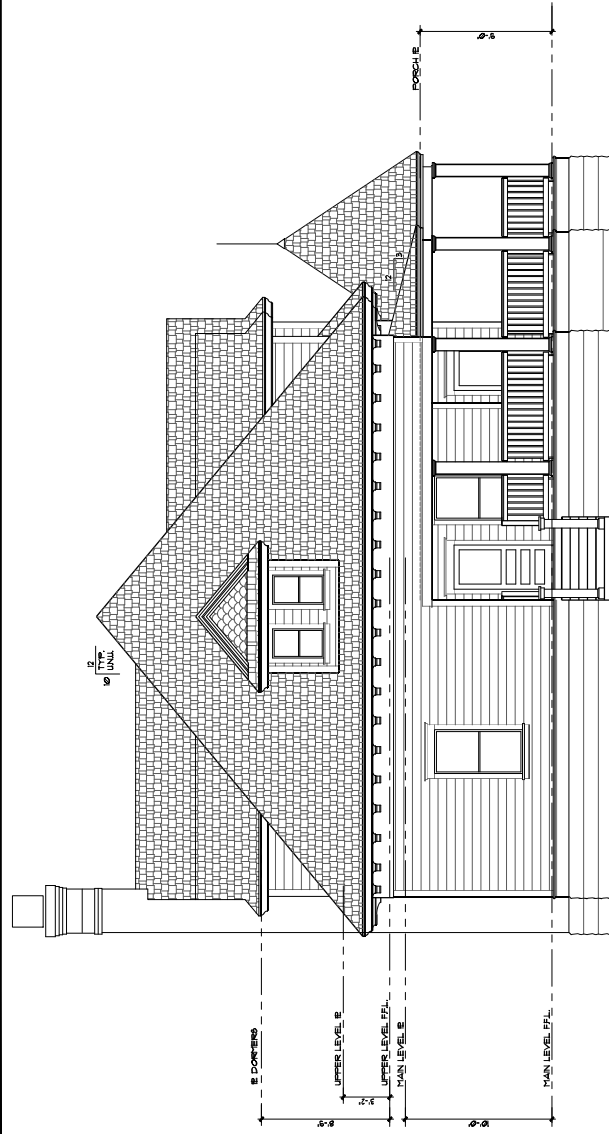
**EAST ELEVATION**  
SCALE 1/4" = 1'-0"



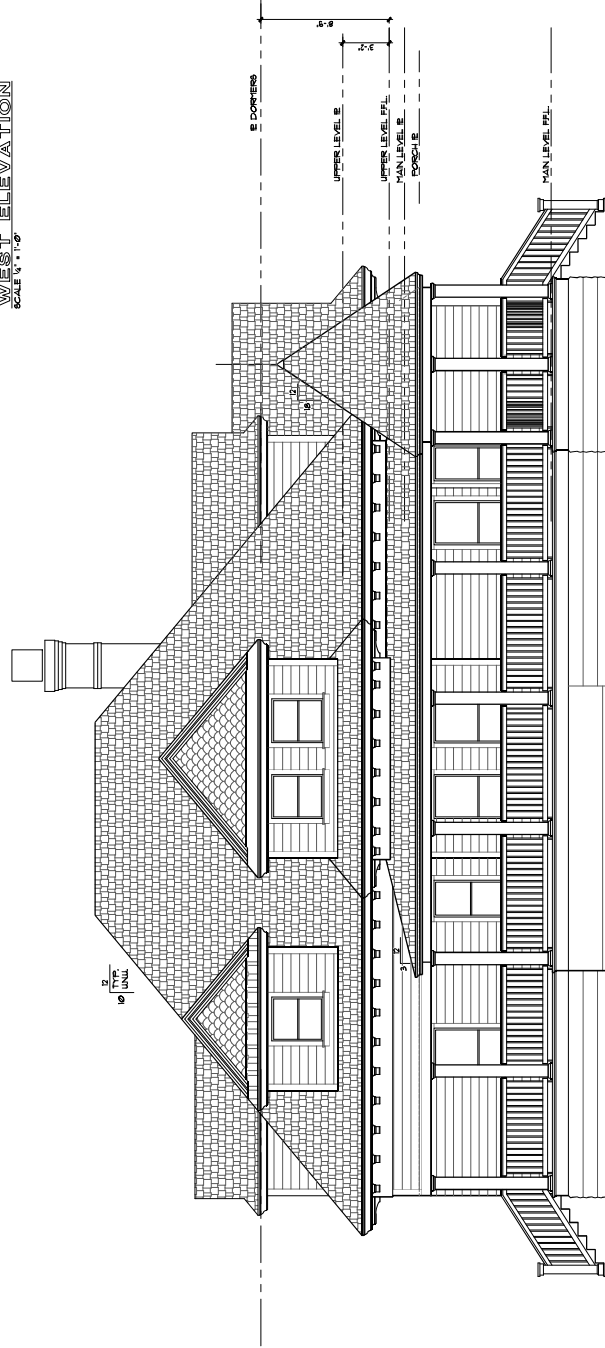
**NORTH ELEVATION**  
SCALE 1/4" = 1'-0"

Revisions	
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Date	06/29/2023
Drawn	K2
Checked	IAK
Project No.	22-386



**WEST ELEVATION**  
SCALE 1/4" = 1'-0"

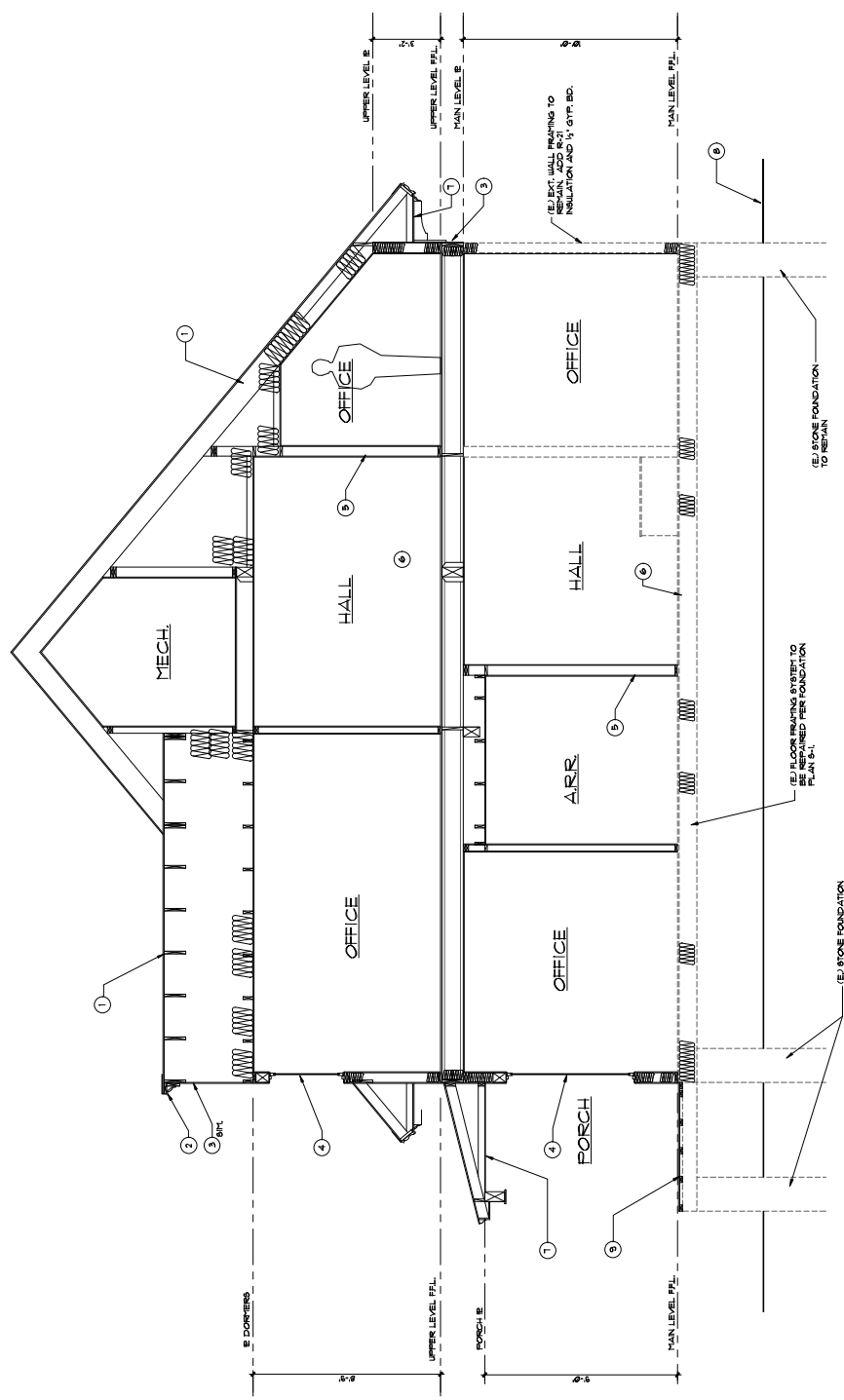


**SOUTH ELEVATION**  
SCALE 1/4" = 1'-0"

Revisions	
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Date	06/29/2023
Drawn	K2
Checked	JAK
Project No.	22-386

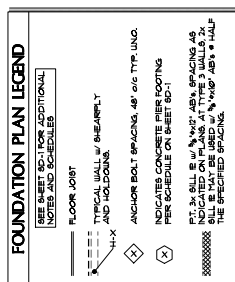
**SECTION NOTES:**

1. TYPICAL PORCH/CEILING
  - ROOFING MATERIAL - SEE ELEVATIONS
  - 2 LAYERS 5/8 PLY
  - 1" INSUL JOINTS - SEE DETAIL
  - RAFTERS - SEE ROOF TRAINING PLAN
  - 2" INSUL JOINTS + 2" OC - SEE STRUCT.
  - 1" GYP. BD.
2. TYPICAL FASCIA / BARGE
  - SEE DETAILS - A-1
3. TYPICAL EXTERIOR WALL
  - LEATHER RESISTIVE BARRIER EQ TO (2)
  - 1" INSUL JOINTS - SEE DETAIL
  - PLAT. BRICK - SEE STRUCT.
  - 7/8" x 8" OC STUCCO
  - 1" GYP. BD.
  - 1/2" BATT INSUL
  - 1" GYP. BD.
4. WINDOW W/ INSULATED GLAZING
5. TYPICAL INTERIOR WALL
  - 1" GYP. BD.
  - 1" OC (W/ BATT INSUL
  - AT TURNING WALLS + 2" BRICK
  - 1" GYP. BD.
  - 1" GYP. BD.
6. TYPICAL FLOOR
  - FINISHING - SEE STRUCT.
  - SLABING - SEE STRUCT.
  - FLOOR JOINTS - SEE STRUCT.
7. TYPICAL ALL LEAVES / SCREENS
  - SMOOTH JACK OR PANELS - SEE DETAILS
  - BRUSHING PER STRUCT.
8. EXISTING GRADE
  - SLOPE A MINIMUM OF 5% AWAY FROM BUILDING
  - AT ALL EXTERIOR CORNERS
9. EXTERIOR PORCH
  - 1" GYP. BD.
  - 1" GYP. BD.
  - 2" SUBSTRATE PER MFR
  - 1/2" ALUMINUM TRAINING



SECTION "A-A"

Revisions	Date	06/29/2023
△	Drawn	K2
△	Checked	IAK
△	Project No.	22-386



## CONCRETE NOTES

SOILS ENGINEER SHALL EXAMINE SITE AFTER EXCAVATION 4  
PRIOR TO SETTING ANY CONC. FORMS. SOIL ENGINEER'S  
RECOMMENDATIONS CONCERNING OVER EXCAVATION,  
COMPACTION, ETC. SHALL BE FOLLOWED.

CONC. FOOTINGS 16" x 10" w/ 2-#4 REBAR CONT. TYP. UNO. STEP FOOTINGS AS REQD. TO BEAR ON NATIVE GRADE OR AS DIRECTED BY SOILS ENGINEER. FOOTING SHALL BE A MIN. OF 10" BEI ON FINISHED GRADE.

3' CONC. FOUNDATION WALL @ 1'-4" TOP & ¾" VERT. @ 32" O.C.  
TYP. W.O. PROVIDE ¾" x 10" ABS @ 48" O.C. TO 2x6 P.T. SILL  
W.O. IN SHEAR WALL PLAN. PROVIDE 2x6 P.T. SOLE PLATE @

ALL SLABS TO BE 4" THICK CONCRETE w/ #3 BARS @ 18" O/C  
W/ 11 OR 6x6 10/10 WELDED WIRE FABRIC REINFORCING AND  
SHALL BE PLACED OVER 4" TYPE-II BASE COMPACTED TO

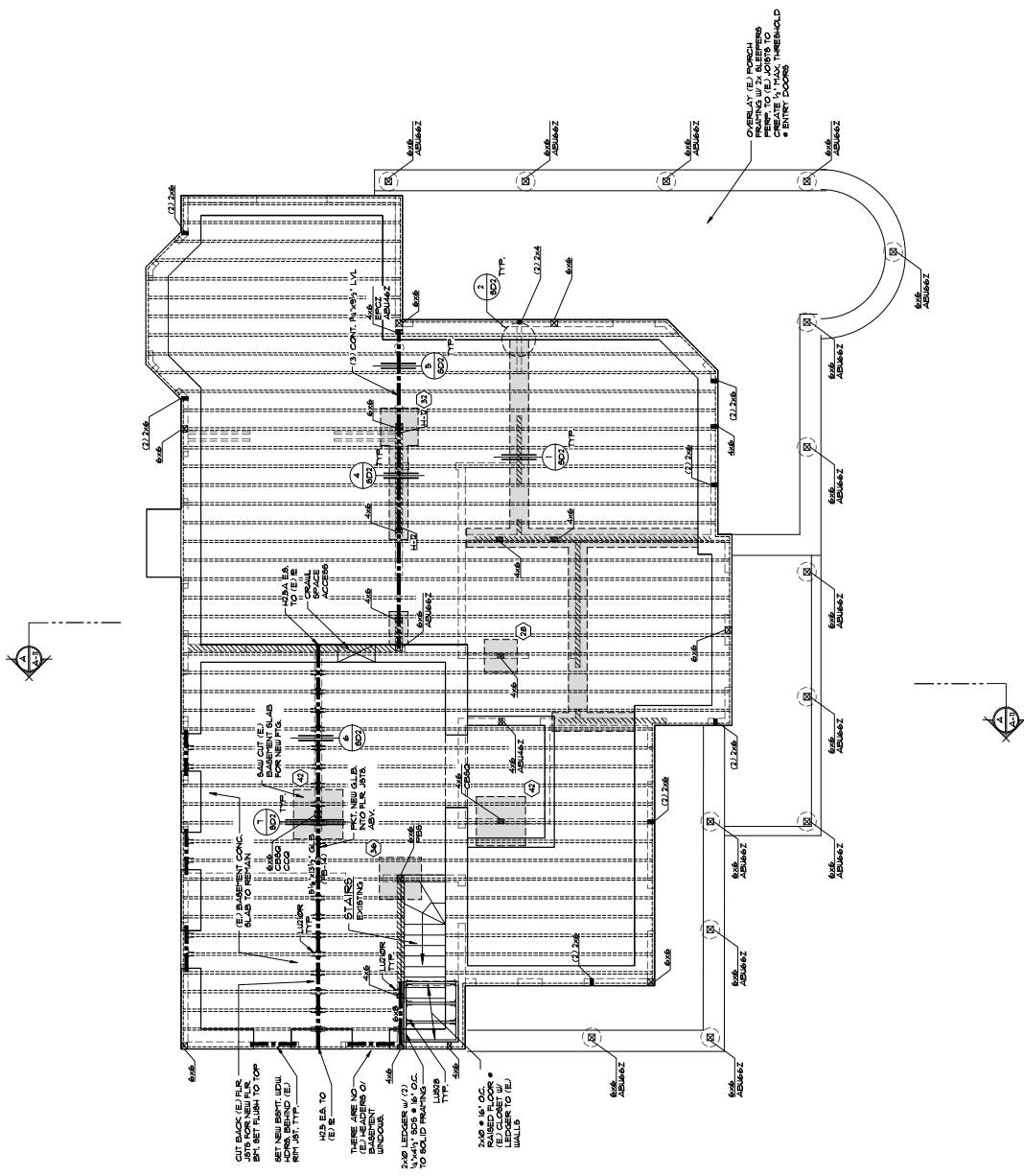
OR 2x SILL PLATE, USE  $\frac{3}{4}$ " x 10' A.B. FOR 3x OR DOUBLE SILL PLATE, USE  $\frac{3}{4}$ " x 12' A.B. EXTEND SILL BOLTS 1' INTO FOUNDATION MINIMUM, MAXIMUM SPACING SHALL BE 4'-0" O.C.

WITH MINIMUM (2) BOLTS IN EACH SILL BOARD. BOLTS SHALL BE LOCATED NOT MORE THAN (12) NOR LESS THAN (7) BOLT DIAMETERS FROM EACH END OF SILL PIECE. MINIMUM 3"x3 1/2" THICK PLATE WASHERS SHALL BE INSTALLED ON EACH SILL BOLT.

WILL PLATE; USE FOUNDATION GRADE REDWOOD OR  
TIMBERSTRAND LVL TREATED w/ ZINC BORATE OR PRESURURE  
TREATED DOUGLAS FIR MUDBILL. SEE SHEARWALL SCHEDULE  
FOR IMPORTANT INFORMATION REGARDING ALL DETAILS FOR

FOR ALL SHEAR WALLS, EXCEPT TYPE "B," 4' REQUIRE FOUNDATION  
RECEIVING EDGE  
ALL FRAMING MEMBERS  
BE NOT LESS THAN A

RAILING SHALL BE STAGGERED IN ALL CASES, SINGLE 3" NOMINAL MEMBERS, PLTWOOD JOINTS & BILL PLATE

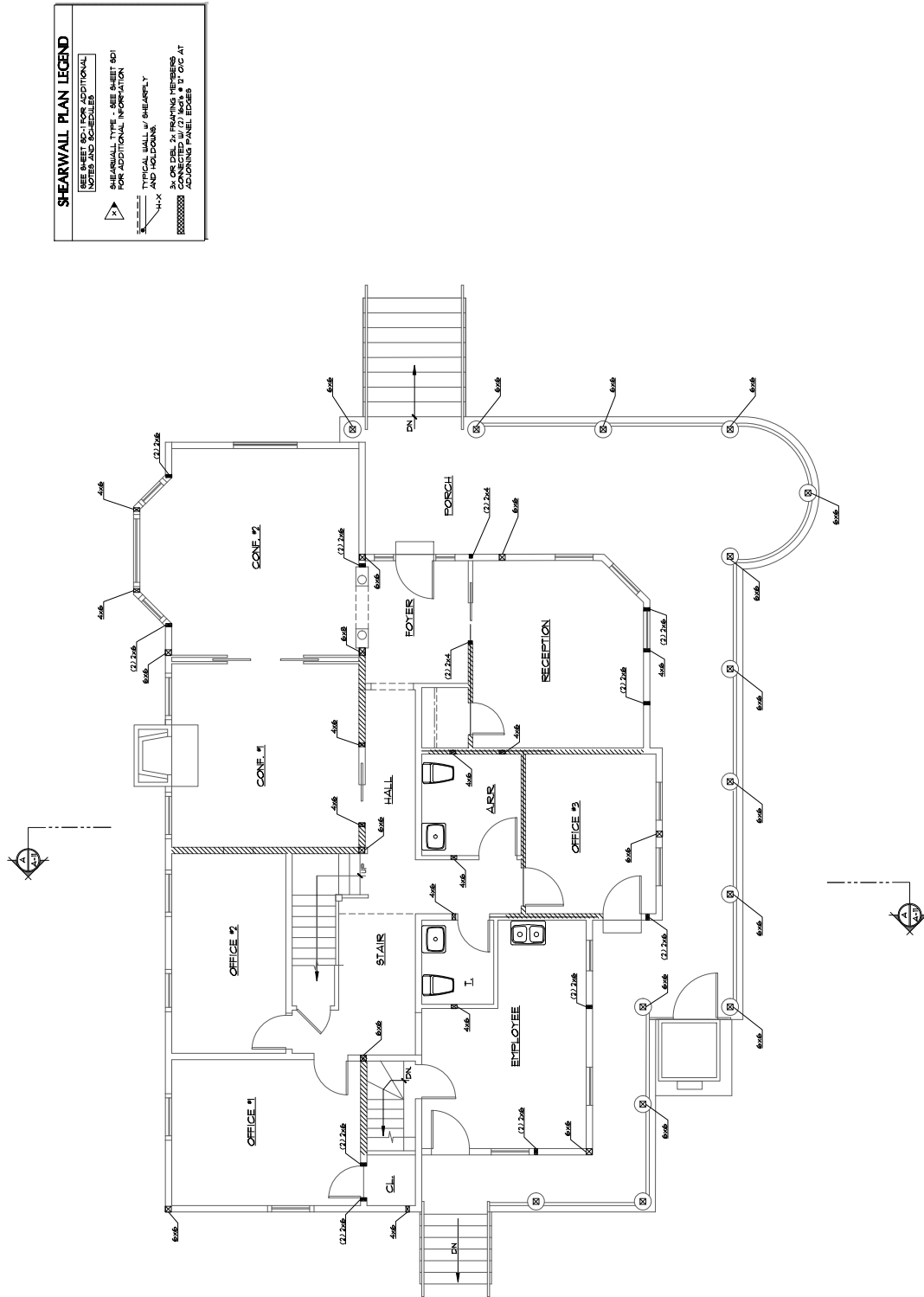


FOUNDATION PLAN  
SCALE 1/4" = 1'-0"

Revisions	Date	06/29/2023
△	Drawn	K2
△	Checked	IAK
△	Project No.	22-386

Main Level  
Shearwall  
Plan

S-2



MAIN LEVEL SHEARWALL PLAN  
SCALE: 1/8" = 1'-0"



### FLOOR FRAMING PLAN LEGEND

**SEE SHEET 10-1 FOR ADDITIONAL NOTES AND SCHEDULES**

FLOOR JOIST

WOOD HEADER/BEAM

TYPICAL WALL w/ SHEARPLY AND HOLD-DOWNS

ANCHOR BOLT: SPACING: 48" o/c 1/2" TYP. W/ 6"

INDICATES CONCRETE PIER FOOTING PER SCHEDULE ON SHEET 10-1

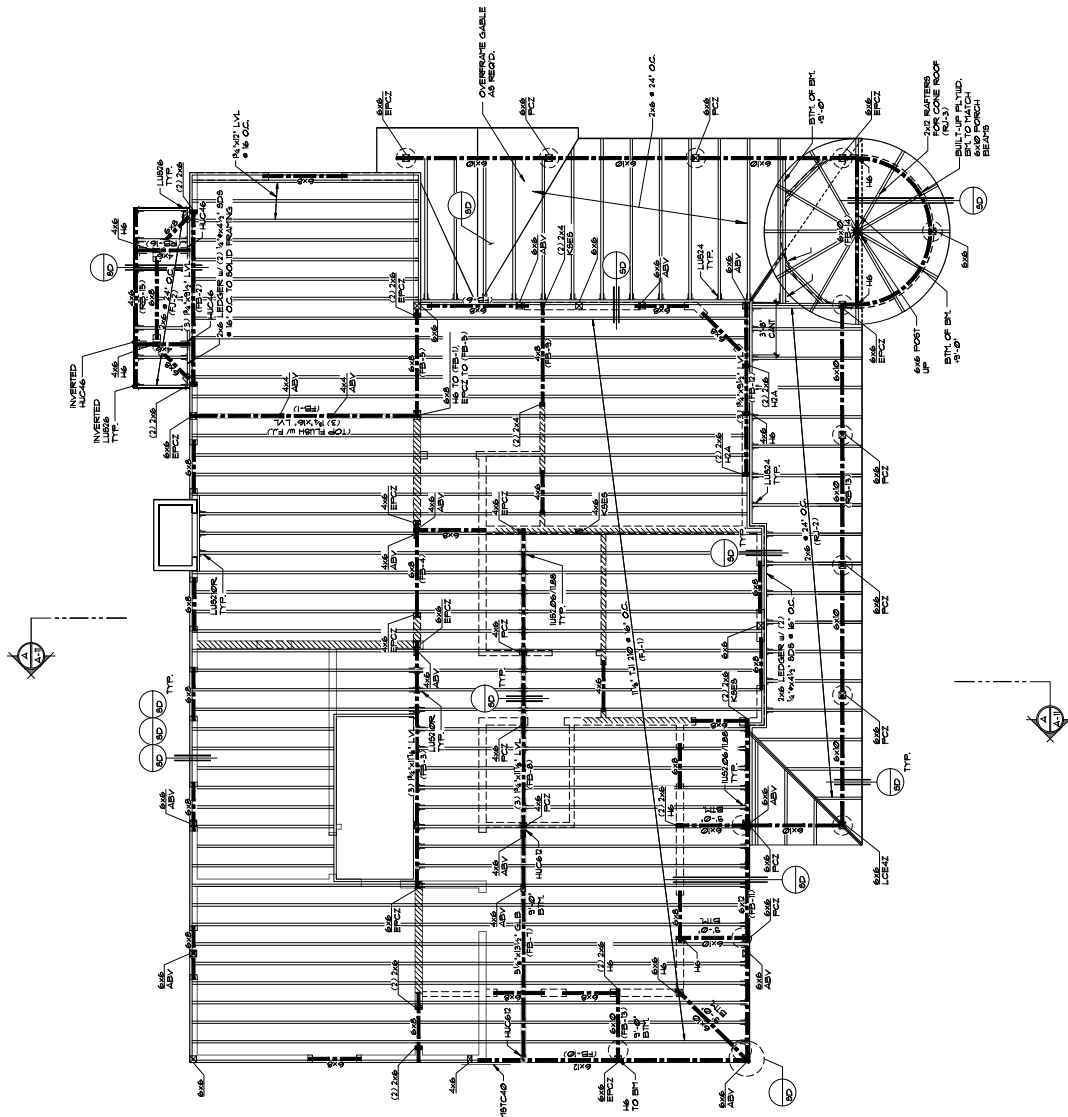
PT. 30 SILL: 1/2" x 6" x 8" SPS. SPACING: 48" o/c

INDICATED ON PLAN: AT TYPE 3 WALLS, 2" x 6" SILL MAY BE USED w/ 1/2" x 6" x 8" SPS. AS NOTED ON THE SPECIFIED SPACING

## FLOOR FRAMING NOTES

[illegible]

## ROOF FRAMING NOTES

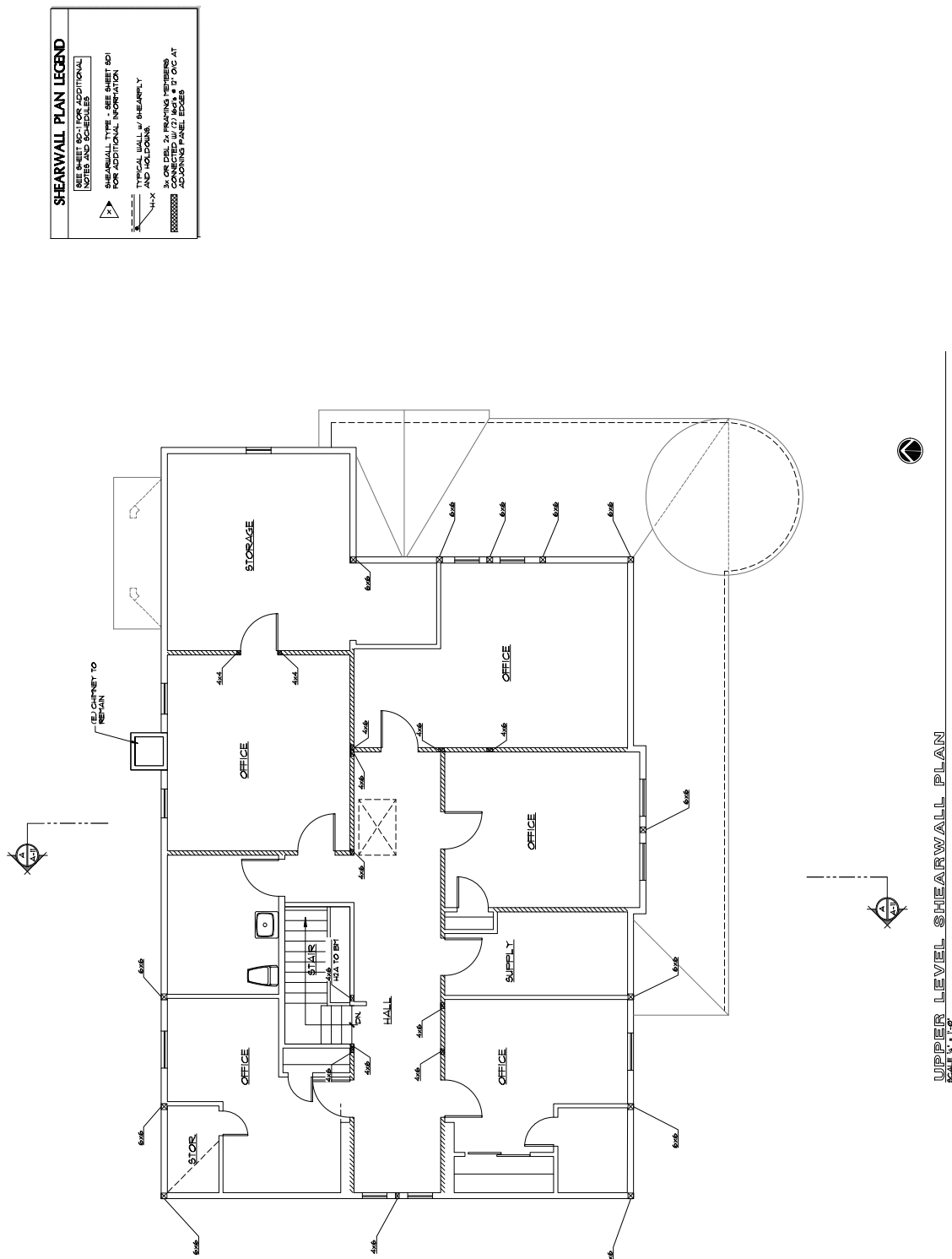
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UPPER LEVEL FLOOR FRAMING PLAN

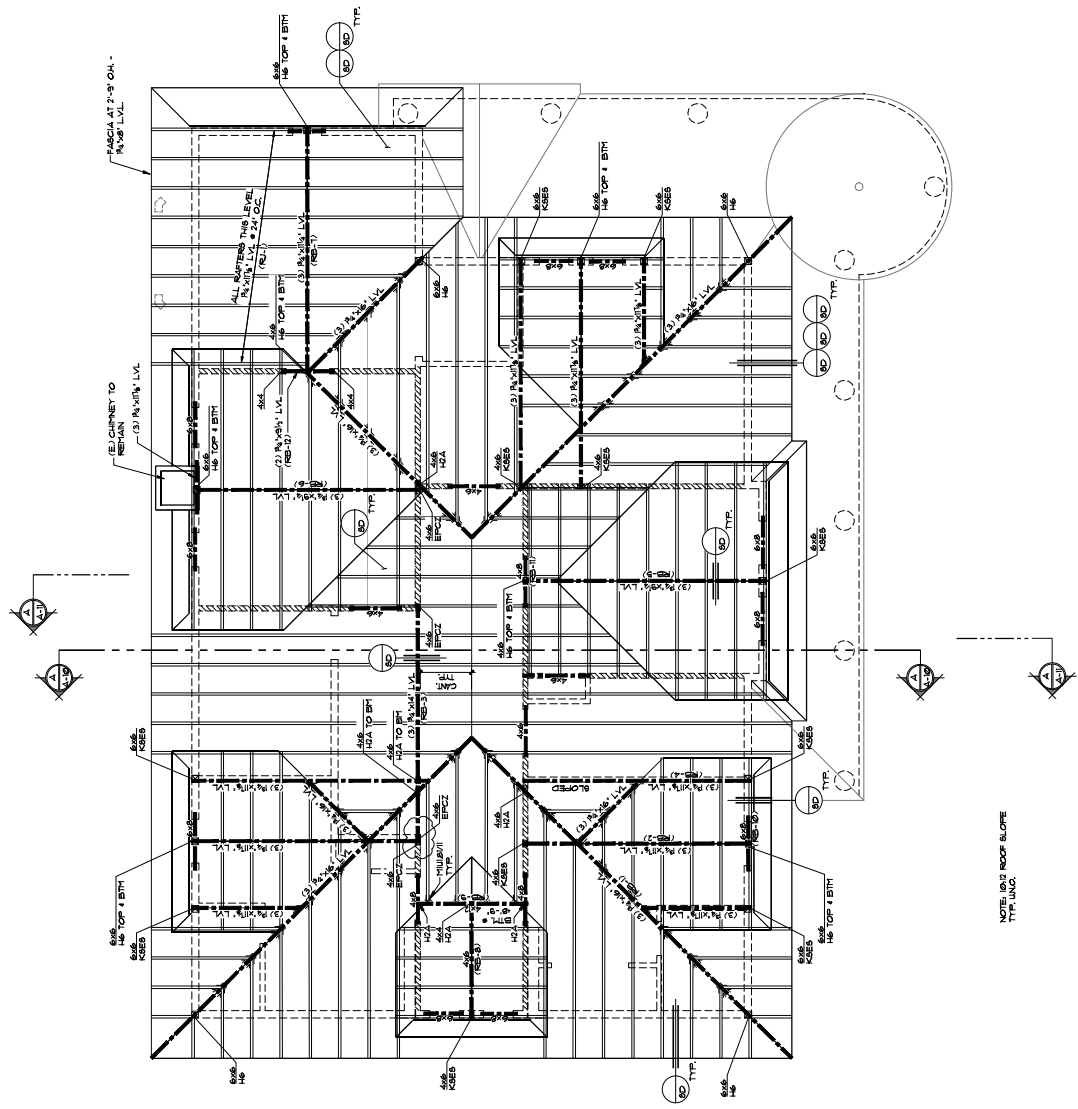
Revisions

Upper Level  
Shearwall  
Plan

S-4



REVISIONS	
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ROOF FRAMING PLAN  
SCALE 1/4\"/>

**ROOF FRAMING PLAN LEGEND**

SEE SHEET S-1 FOR ADDITIONAL  
NOTES AND SCHEDULES

WOOD HEADER/BEAM

ROOF RAFTERS

INTERIOR BEARING WALL

3x RAFTING AT ADJOINING PANEL EDGES

1x PT. 3x GILL & 1x 2x12 ADJ. BRACKS

WALLS 2x ALL & 1x 2x12 BE USED IN 1x12

ABX & HALF THE SPECIFIED BRACKS

**ROOF FRAMING NOTES**

ROOF LOWER LIVE 21 SQ. FT. DEAD 36 SQ. FT.

USE (1) LATER 1x12 @ 7'0\"/>

PERMANENTLY TO SUPPORT FRAMING STAGGER PANELS & PROVIDE 1x12 DOUBLE STUDS BELOW ALL (1) & (2) RLY. GIRDER STUDS & 1x12 TRIMMING UNDO. CONNECT UNDER TRIMMING TO PORT w/ SHIPMENT 1x12 UNDO.

ALL GLU-LAM BEAMS SHALL BE DOUBLE 2x8-1/4 UNDO.

TYP. HEADERS UNDO. USE 6x8 DA. 1

USE 2x12 BETWEEN TOP PLATE BRICES TYP. UNDO.

USE 2x8 PLAT w/ 2x6 STRONGBACK & 4x8 OC & GABLE END FRAMING

PROVIDE G.I. FLASHING & ALL VALLEYS & ROOF-TO-WALL CONNECTIONS. PROVIDE 1x12 TRIMMING UNDO. CONNECT UNDER TRIMMING TO PORT w/ SHIPMENT 1x12 UNDO. 1x12 TRIMMING UNDO. CONNECT UNDER TRIMMING TO PORT w/ SHIPMENT 1x12 UNDO.

USE BOUNDARY NAILING & ALL DRUG TRAMERS UNDO.

ASB & 4x8 TRUS BACK TO TOP PLATE TYP. UNDO.

WALLS & BEAMS SHALL BE 1x12 @ 16\"/>

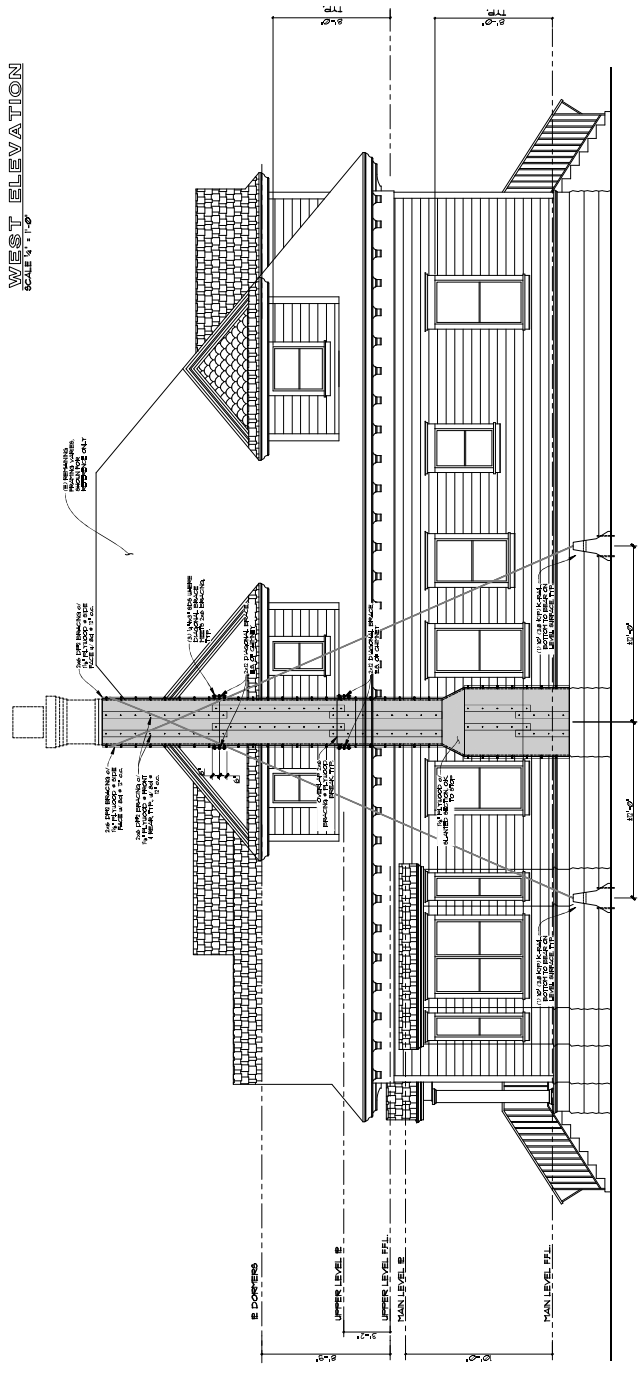
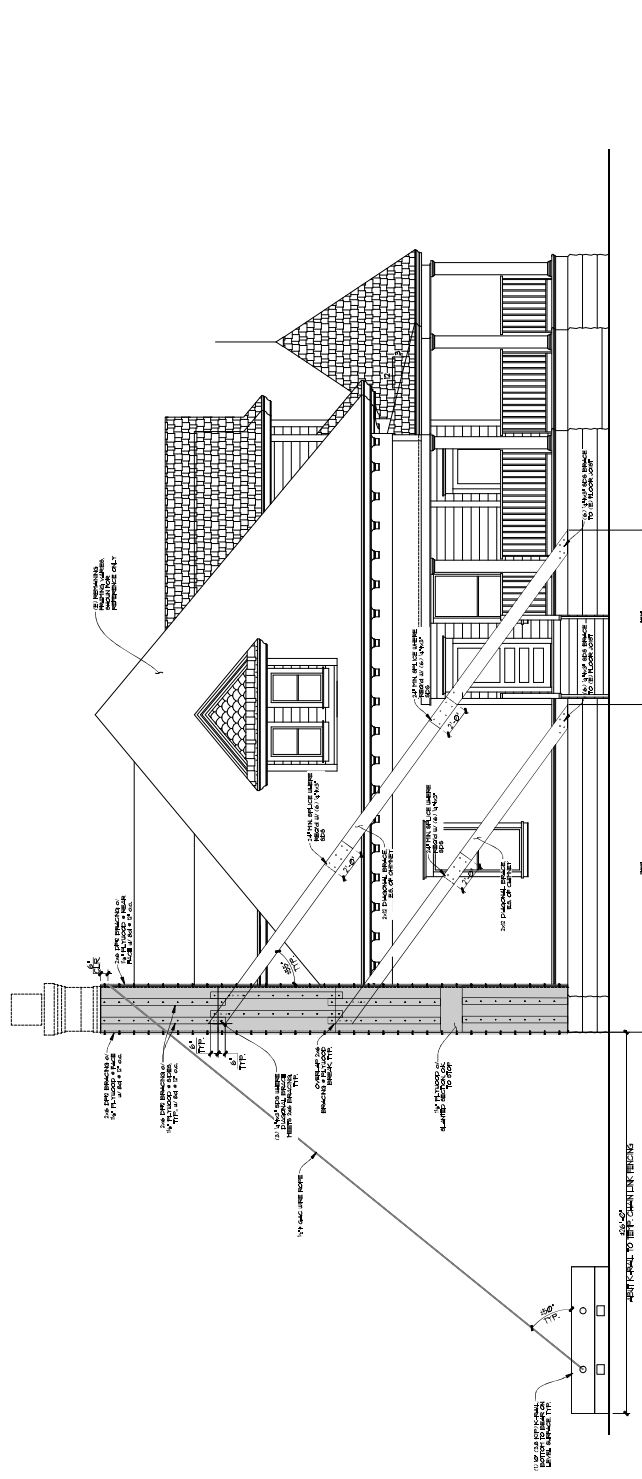
PROVIDE ATTIC ACCESS (21x24) PER INC. SECTION 180071

PROVIDE ROOF VENTILATION PER INC. SECTION 180071

PROVIDE BLOOMS & ALL RIDGES, HIPPS & VALLEYS TYP

PROVIDE CONT ROOF FLY UNDER ALL ROOF OVER FRAMING

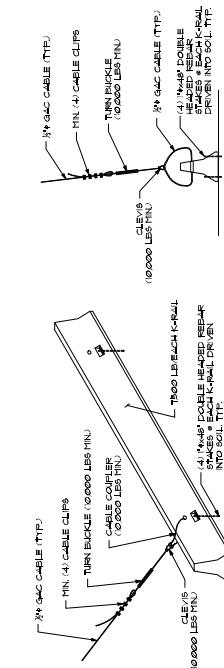
Revisions	
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Project No.	22-589



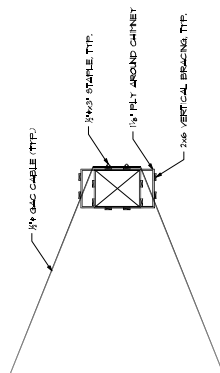
Revisions

### Bracing At Main Floor

SD-4

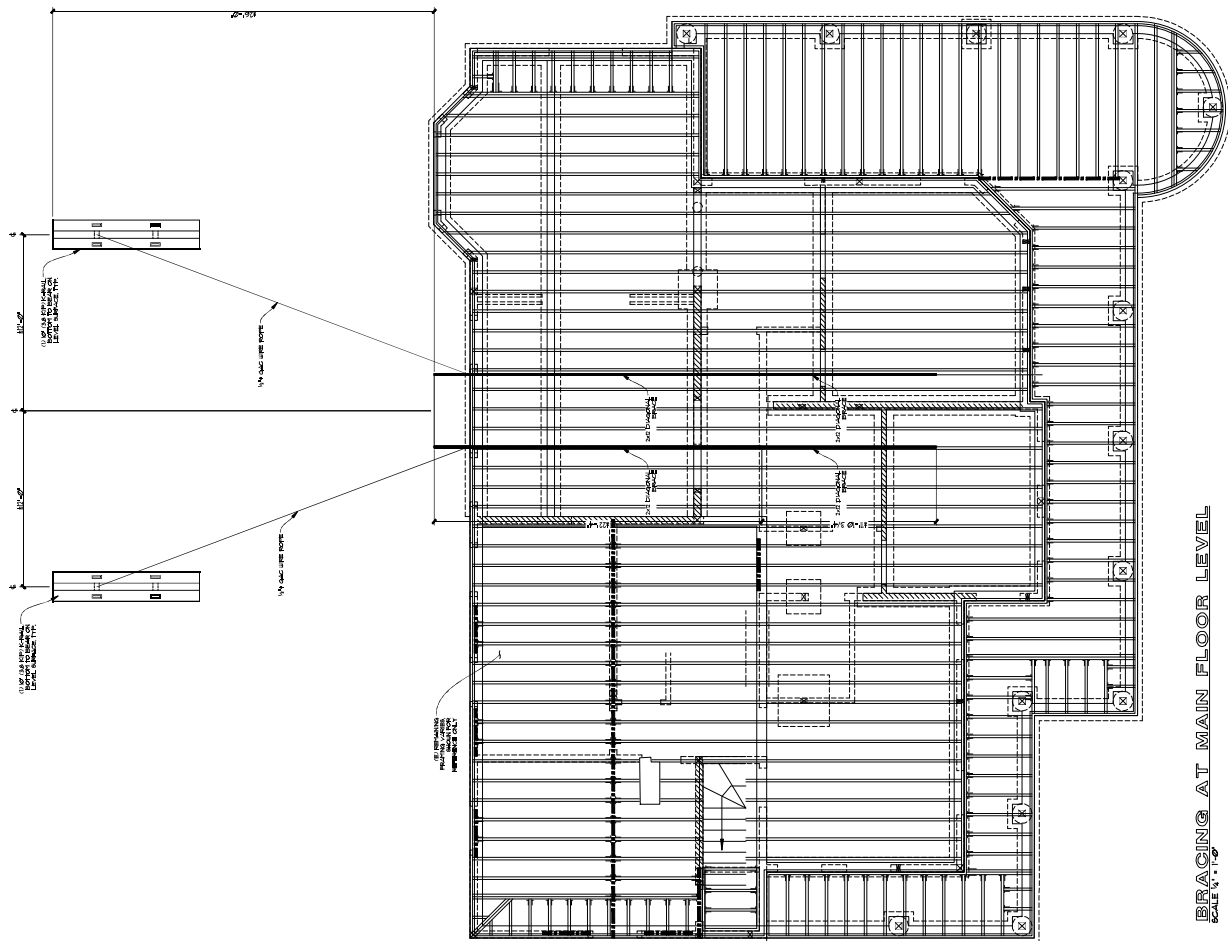


## K-RAIL ANCHOR



# WIRE ROPE AT UPPER CHIMNEY

SCALE: NTS



BRACING AT MAIN FLOOR LEVEL

BRACIL  
CALEW - 110

# Endura-Stone® COLUMN SPECIFICATIONS

## MATERIALS:

Endura-Stone and DuraStone column shafts are manufactured of one-piece rotocast fiberglass reinforced polymer (FRP) with marble dust. Our proprietary method of manufacturing our column shafts is patented, with patents applied for on the DuraStone pre-colored, textured column process and materials. This one-piece construction, combined with the inherent strength of FRP (pound for pound, FRP is stronger than concrete, steel, or aluminum), provides an exceptionally high load-bearing capacity, and a column that is impervious to rot, decay and insect damage. Unlike wood columns, the non-porous, waterproof shafts can be used as channels for downspouts, wiring, and plumbing.

Pacific Columns FRP and DuraStone columns include Flame Guard™, and were the first in the industry to pass the ASTM E 84-01 Class 1 Flame-Spread Classification tests, achieving a Flame Spread index of 15, and Smoke Developed Index of 335, well below the allowable SDI index of 450.



Six-inch through twelve-inch diameter (up to twelve foot in height) standard FRP shafts are factory sanded. Larger shafts (and square shafts) may require field-sanding prior to installation. All shafts are shipped unfinished, and we recommend finishing with a high quality 100% acrylic latex primer and paint.

DuraStone pre-colored columns do not require finishing. The shaft material is colored throughout, utilizing UV inhibitors that will minimize color fading. The surfaces of DuraStone columns, caps and bases are textured to imitate rough-hewn stone. (Bases for 18" and larger DuraStone columns are split in half and will require reassembly at time of installation.)

## ROUND COLUMN SIZES:

Round tapered and non-tapered shafts are available fluted and unfluted in a wide range of sizes. Flutes in most 8", 10" and 12" diameter tapered shafts are molded right into the shaft, providing consistent Ionic fluting. All sizes can also be custom-fluted for specific opening heights, and adjusted for the cap and base chosen. When shafts are custom fluted, typically the flutes end 1" above the base. (See our Endura-Glass specifications for information on 30" diameter columns.)

Tapered shafts have a modified architectural entasis, with a Tuscan style astragal for authentic styling. Since these are molded products, some sizes may vary from the 1/3 straight to 2/3 tapered ratio. Please see the tables on the following pages for exact information on the shaft tapers, and top and bottom net diameters, fluting, etc. Non-tapered shafts have no astragal, providing a more contemporary look.

Column Bottom Diameter*	Tapered Round Shafts											
	5'	6'	8'	9'	10'	12'	14'	16'	18'	20'	22'	24'
6"	✓	✓	✓									
8"	✓	✓	✓ •	✓ •	✓ •							
10"	✓	✓	✓ •	✓ •	✓ •	✓ •						
12"	✓	✓	✓ •	✓ •	✓ •	✓ •	✓	✓ •				
14"			✓	✓	✓	✓	✓	✓	✓	✓		
16"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
18"			✓		✓	✓	✓	✓	✓	✓	✓	✓
20"		✓	✓		✓	✓	✓	✓	✓	✓		
24"			✓		✓	✓	✓	✓	✓	✓	✓	✓

\*Actual shaft net diameter is 3/8" to 5/8" smaller than nominal size shown.

✓ Available unfluted; • Available with standard flutes.

Column Bottom Diameter*	Non-tapered Round Shafts						
	8'	10'	11'	12'	14'	15'	
8"	✓	✓					
10"	✓	✓					
12"	✓	✓		✓			
14"	✓	✓		✓	✓		
16"	✓	✓					
18"	✓	✓	✓				
20"	✓	✓	✓				
24"	✓	✓		✓	✓	✓	

## SQUARE FRP COLUMN SIZES:

Square non-tapered shafts are available unfluted, fluted, with a double raised panel, or recessed panels. In addition, custom fluting is available. The astragal is molded into the shaft for consistent spacing and simplified installation. (See our DuraGlass specification pages for information on square tapered and non-tapered light-weight columns.)

Column Bottom Width*	Non-tapered Square Shafts					
	8'	9'	10'	12'	14'	16'
6"	✓		✓			
8"	✓ • Δ ■	✓ • Δ ■	✓ • Δ ■			
10"	✓ ■	✓ ■	✓ ■	✓		
12"	✓	✓	✓	✓	✓	✓
14"	✓	✓	✓	✓	✓	✓

\* Net shaft width is 1/8" less than nominal size shown.

✓ Available unfluted. • Available with standard flutes.

Δ Available paneled. ■ Available with recessed panels.

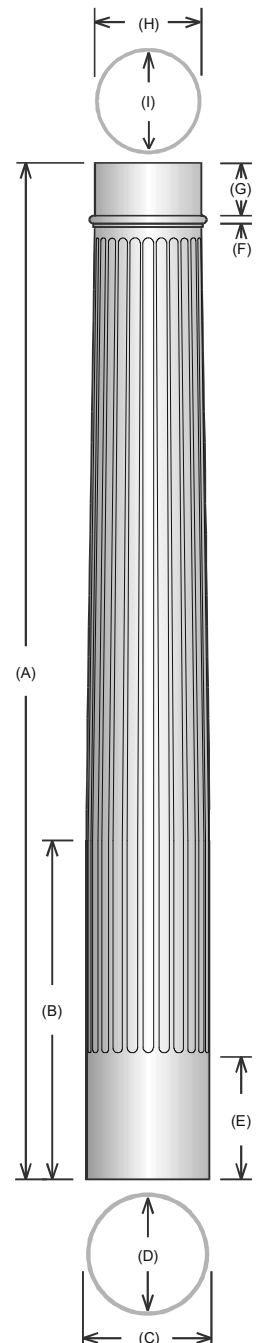
# Endura-Stone ROUND SHAFT SPECIFICATIONS

## ROUND TAPERED SHAFTS:

Standard FRP column shafts are the same height as the listed size. Tuscan and Roman Doric caps and bases, and Attic bases go around the shaft, and do not affect the overall height. Ornamental capitals are set on top of the shaft (after the shaft is trimmed to the astragal), and do affect the overall height: see the *Ornamental Capitals for Round Columns* specifications for more information. On custom fluted shafts, the flutes start 1" from the astragal, and typically end 1" from the base. Fluting can be adjusted for the customer's requirements.

Since the Tuscan caps for DuraStone columns install on TOP of the shaft, rather than around it, the shaft itself is reduced in overall height by the height of the Tuscan cap. The height of the shaft plus the height of the cap will achieve the overall stated column height.

Column Nominal Diameter	Shaft Height	Shaft Bottom*		Shaft Top*		Space Available Inside Shaft:		Shaft Neck		Flute Width (24 ea.)	Straight Portion of Shaft (unfluted columns)	Straight Portion of Shaft (fluted columns)	Smooth shaft before flutes
		Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	For Round Post	For Square Post	Neck Height†	Astragal Ring‡		(B)	(B)	(E)
		(C)	(D)	(H)	(I)			(G)	(F)		(B)	(B)	(E)
6"	5'									1/2"	23 1/16"	n/a	n/a
	6'	5 11/16"	4 3/4"	4 13/16"	3 3/4"	3 3/8"	2 1/2"	3"	1/2"		35 1/16"	n/a	n/a
	8'										59 1/16"	n/a	n/a
8"	5'									11/16"	14 1/16"	n/a	n/a
	6'										26 1/16"	n/a	n/a
	8'	7 5/8"	6 3/4"	6 19/32"	5 1/2"	5 1/8"	3 1/2"	4 1/4"	1/2"		50 1/16"	50"	10 1/2"
	9'										62 1/16"	54"	10 1/2"
	10'										72 1/16"	65"	10 1/2"
10"	4'									7/8"	0"	n/a	n/a
	5'										0"	n/a	n/a
	6'										10 11/16"	n/a	n/a
	8'	9 11/16"	8 3/8"	8 9/16"	7 3/4"	7 3/8"	4 15/16"	5 1/8"	3/4"		34 11/16"	39"	11"
	9'										46 11/16"	56"	11"
	10'										58 11/16"	65"	11 1/4"
	12'										82 11/16"	89"	11 1/4"
12"	5'									1"	0"	n/a	n/a
	6'										8 3/4"	n/a	n/a
	8'										32 3/4"	42 3/4"	12"
	9'	11 5/8"	10 3/4"	10 1/16"	9 1/4"	8 7/8"	6"	4 3/4"	3/4"		44 3/4"	49"	12"
	10'										56 3/4"	53"	12"
	12'										80 3/4"	60"	12 1/8"
	14'										62"	n/a	n/a
14"	16'										86"	87"	12 1/8"
	8'									1 1/4"	33 1/4"		
	9'										45 1/4"		
	10'										57 1/4"		
	12'	13 1/2"	11 1/2"	11 9/16"	10 1/2"	10 1/8"	6 3/8"	6 3/4"	1"		81 1/4"		
	14'										57 1/4"		
	16'										81 1/4"		
	18'										105 1/4"		
16"	20'										129 1/4"		
	5'										16 1/4"		
	6'										28 1/4"		
	8'										18 1/2"		
	9'										30 1/2"		
	10'	15 7/16"	13 1/2"	13 1/8"	12"	11 5/8"	7 7/16"	7 3/8"	1"	1 7/16"	42 1/2"		
	12'										66 1/2"		
	14'										27 1/4"		
	16'										51 1/4"		
	18'										75 1/4"		
	20'										99 11/4"		



\* Diameters may vary  $\pm 1/8"$

† Neck Height is the distance from the top of the shaft to the top of the astragal ring,  $\pm 1/8"$ .

‡ Astragal ring is only the ring portion, and does not include the fillet and cove.

# Endura-Stone ROUND SHAFT SPECIFICATIONS

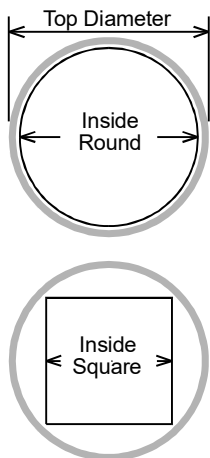
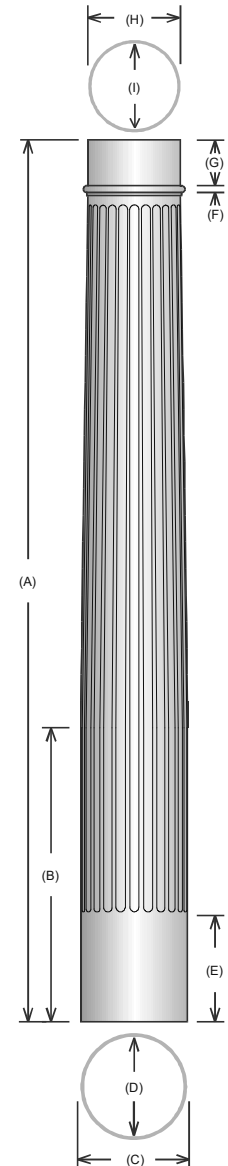
## ROUND TAPERED SHAFTS (CONT'D):

Column Nominal Diameter	Shaft Height	Shaft Bottom*		Shaft Top*		Space Available Inside Shaft:		Shaft Neck		Flute Width (24 ea.)	Straight Portion of Shaft
		Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	For Round Post	For Square Post	Neck Height†	Astragal Ring‡		
	(A)	(C)	(D)	(H)	(I)			(G)	(F)		(B)
18"	8'	17 3/8"	15"	14 5/16"	12 3/4"	12 3/8"	8 5/16"	7 7/8"	1"	1 1/2"	13 3/8"
	9'										25 3/8"
	10'										37 3/8"
	12'										61 3/8"
	14'										85 3/8"
	16'										26 1/8"
	18'										50 1/8"
	20'										74 1/8"
	22'										98 1/8"
	24'										122 1/8"
20"	6'	19 3/8"	18"	16 5/16"	14 7/8"	14 1/2"	10"	9 3/16"	1 3/8"	1 11/16"	0"
	8'										22 1/4"
	10'										46 1/4"
	12'										70 1/4"
	14'										40 3/8"
	16'										64 3/8"
	18'										88 3/8"
	20'										112 3/8"
24"	8'	23 3/8"	22"	19 5/16"	18"	17 5/8"	12 3/16"	12"	1 5/8"	2 1/8"	8"
	10'										32"
	12'										56"
	14'										24 13/16"
	16'										48 13/16"
	18'										72 13/16"
	20'										96 13/16"
	22'										120 13/16"
	24'										144 13/16"

\* Diameters may vary  $\pm 1/8"$

† Neck Height is the distance from the top of the shaft to the top of the astragal ring,  $\pm 1/8"$ .

‡ Astragal ring is only the ring portion, and does not include the fillet and cove.



The "Space Available Inside Shaft" measurements are calculated at the top inside diameter (with  $\pm 3/8"$  tolerance), when using Tuscan or Roman Doric caps. (Fluted columns may have reduced tolerances.)

When structural or composite Ornamental Capitals are used, the neck sleeve or plug will reduce the inside available space significantly. If the column will not be required to carry a load, it may be possible for the installer to modify or remove the neck sleeve or plug to allow more interior space. Please contact Turncraft Customer Service for more information.

These measurements are provided to assist in determining the correct column diameter to go around a load bearing post or lally column, or for clearance for water downspouts, conduits, etc. If a larger diameter is required, it may be possible to specify the Non-tapered Round columns instead.

## LOAD CAPACITIES:

### Round Tapered Column Shafts

Column Diameter	Concentric Load	Eccentric Load*
6"	6,000 lb.	6,000 lb.
8"	10,000 lb.	6,600 lb.
10"	14,000 lb.	10,720 lb.
12"	18,000 lb.	13,200 lb.
14"	20,000 lb.	11,520 lb.
16"	20,000 lb.	13,200 lb.
18"	20,000 lb.	9,040 lb.
20"	20,000 lb.	18,960 lb.
24"	20,000 lb.	13,200 lb.

\*See testing documentation for full information on eccentric loading values.



# Endura-Stone ROUND SHAFT SPECIFICATIONS

## ROUND NON-TAPERED SHAFTS:

Standard FRP column shafts are the same height as the listed size. Tuscan caps and bases, and Attic bases go around the shaft, and do not affect the overall height. Ornamental capitals are not typically available for non-tapered round shafts.

Column Nominal Diameter	Shaft Height	Shaft Diameters*		Space Available Inside Shaft:		Flute Width (24 ea.)
		Outside Diameter	Inside Diameter	For Round Post	For Square Post	
8"	8'	7 5/8"	6 3/4"	6 3/8"	4 1/2"	11/16"
	10'					
10"	8'	9 11/16"	8 3/8"	8"	5 5/8"	7/8"
	10'					
12"	8'	11 5/8"	10 3/4"	10 3/8"	7 5/16"	1"
	10'					
	12'					
14"	8'	13 1/2"	11 1/2"	11 1/8"	7 7/8"	1 5/16"
	10'					
	12'					
	14'					
16"	8'	15 7/16"	13 1/2"	13 1/8"	9 1/4"	1 1/2"
	10'					
18"	8'	17 3/8"	15"	14 5/8"	10 3/8"	1 11/16"
	10'					
	11'					
20"	8'	19 3/8"	18"	17 5/8"	12 1/2"	1 7/8"
	10'					
	11'					
24"	8'	23 3/8"	21 1/4" (top ID)	20 7/8"	14 3/4"	2 5/16"
	10'					
	12'					
	14'					
	15'					

\* Diameters may vary  $\pm 1/8"$

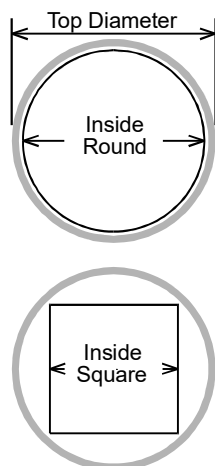
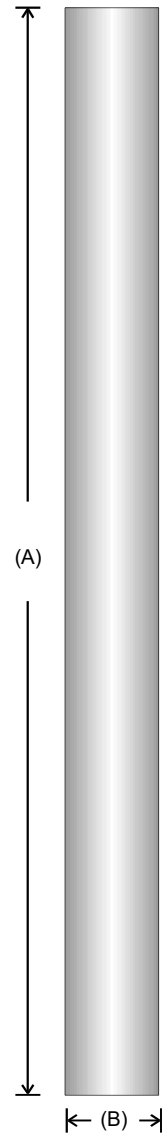
† Neck Height is the distance from the top of the shaft to the top of the astragal,  $\pm 1/8"$ .

‡ Astragal height is only the ring portion, and does not include the fillet and cove.

Since the Tuscan caps for Dura-Stone columns install on TOP of the shaft, rather than around it, the shaft itself is reduced in overall height by the height of the Tuscan cap. The height of the shaft plus the height of the cap will achieve the overall stated column height.

While all sizes of the non-tapered shafts are considered straight, there may be a small amount of residual taper on the larger columns. Rather than creating new molds for the manufacturing process, the 16" and larger diameter columns are made using the straight portion of our tapered molds. (If the shaft is installed with the residual taper at the bottom, the base will almost completely cover that taper.)

All non-tapered shafts may be ordered fluted. Flutes typically end 1" from the cap and 1" from the base. Fluting can be adjusted for the customers requirements.



The "Space Available Inside Shaft" measurements are calculated at the top inside diameter (with  $\pm 3/8"$  tolerance), when using Tuscan or Roman Doric caps. (Inside diameters may be reduced for fluted columns.)

These measurements are provided to assist in determining the correct column diameter to go around a load bearing post or lally column, or for clearance for water downspouts, conduits, etc.

## LOAD CAPACITIES:

### Round Non-tapered Column Shafts

Column Diameter	Concentric Load	Eccentric Load*
8"	10,000 lb.	6,600 lb.
10"	14,000 lb.	10,720 lb.
12"	18,000 lb.	13,200 lb.
14"	20,000 lb.	11,520 lb.
16"	20,000 lb.	13,200 lb.
18"	20,000 lb.	9,040 lb.
20"	20,000 lb.	18,960 lb.
24"	20,000 lb.	13,200 lb.

\*See testing documentation for full information on eccentric loading values.

# Endura-Stone SQUARE SHAFT SPECIFICATIONS

## SQUARE NON-TAPERED SHAFTS :

Standard FRP column shafts are the same height as the listed size. Tuscan caps and bases, and the pedestal base go around the shaft, and do not affect the overall height. Ornamental capitals are set on top of the shaft (after the shaft is trimmed to the astragal), and will affect the overall height: see the *Ornamental Capitals for Square Columns* specifications for more information.

Since the Tuscan caps for DuraStone columns install on TOP of the shaft, rather than around it, the shaft itself is reduced in overall height by the height of the Tuscan cap. The height of the shaft plus the height of the cap will achieve the overall stated column height.

All square non-tapered shafts may be ordered custom fluted. Flutes typically end 1" from the cap and 1" from the base. Fluting can be adjusted for the customers requirements.

Column Nominal Width	Column Shaft		Shaft Neck		Flute Width (20 each)	Space Available Inside Shaft* (Round or Square Post)
	Outside Width	Inside Width*	Neck Height†	Astragal Ring‡		
	(B)	(C)	(E)	(D)		
6"	5 7/8"	4 3/4"	3 5/8"	3/4"	1/2"	4 1/2"
8"	7 7/8"	5 3/4"	4 1/2"	3/4"	11/16"	5 1/2"
10"	9 7/8"	8 3/4"	5 1/16"	3/4"	7/8"	8 1/2"
12"	11 7/8"	10 3/4"	4 1/2"	3/4"	1"	10 1/2"
14"	13 7/8"	12 3/4"	7"	1"	1 1/4"	12 1/2"

\* For 8" size, stock fluted shaft value is shown. Paneled and plain shafts are typically 1/2" to 1" greater.

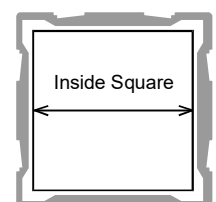
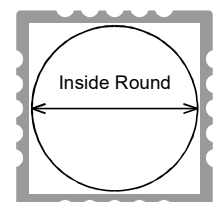
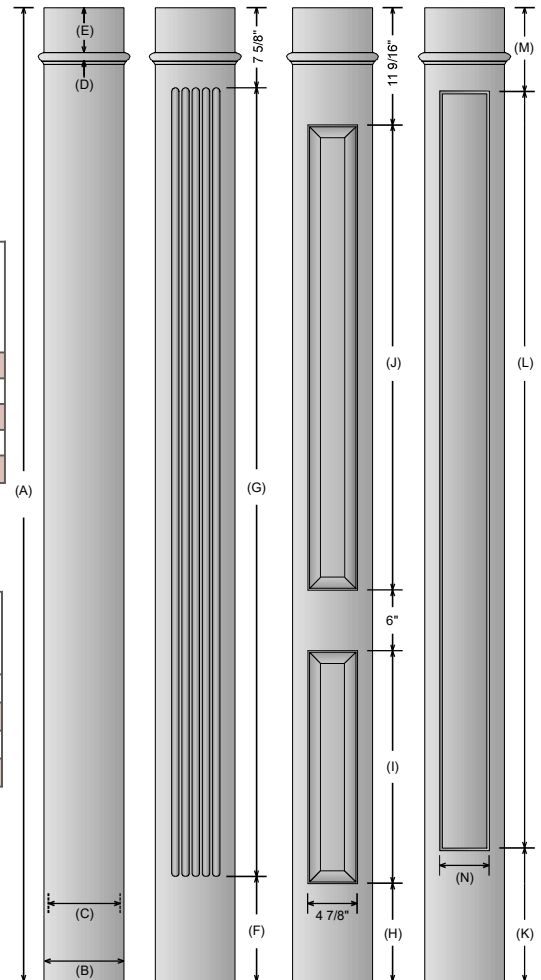
† Neck Height is the distance from the top of the shaft to the top of the astragal ring, ± 1/8".

‡ Astragal ring is only the ring portion, and does not include the fillet and cove.

8" Fluted Columns (Stock)	Bottom of Shaft Before Flutes	Flute Length
	(F)	(G)
8'	10 15/16"	77 13/16"
9'	10 15/16"	89 13/16"
10'	22 15/16"	89 13/16"

8" Raised Panel Columns	Bottom of Shaft Before Panel	Bottom Panel Height	Top Panel Height
	(H)	(I)	(J)
8'	9 5/8"	22 15/16"	45 7/8"
9'	9 5/8"	26 15/16"	53 7/8"
10'	21 5/8"	26 15/16"	53 7/8"

Recessed Panel Columns	Bottom of Shaft Before Panel	Panel Height	Top of Panel to Top of Column	Panel Width
	(K)	(L)	(M)	(N)
8" x 8'	12"	76 3/4"	7 5/8"	4 7/8"
8" x 9'	12"	88 3/4"	7 5/8"	4 7/8"
8" x 10'	12"	100 3/4"	7 5/8"	4 7/8"
10" x 8'	14 1/2"	73 11/16"	8 3/16"	6 7/8"
10" x 9'	14 1/2"	85 11/16"	8 3/16"	6 7/8"
10" x 10'	14 1/2"	97 11/16"	8 3/16"	6 7/8"



## LOAD CAPACITIES:

Square Non-tapered Column Shafts

Column Diameter	Concentric Load	Eccentric Load*
6"	6,000 lb.	6,000 lb.
8"	10,000 lb.	6,600 lb.
10"	12,800 lb.	10,720 lb.
12"	18,000 lb.	17,320 lb.
14"	20,000 lb.	17,320 lb.

\*See testing documentation for full information on eccentric loading values.

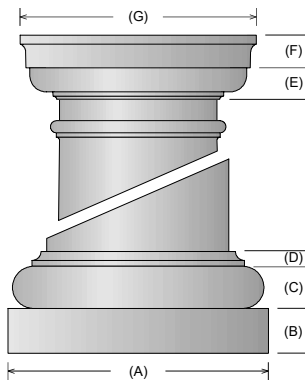
The "Space Available Inside Shaft" measurements are calculated at the top inside width (with ± 1/4" tolerance). Inside widths may vary. Ornamental capitals will reduce the inside widths.

These measurements are provided to assist in determining the correct column diameter to go around a load bearing post or lally column, or for clearance for water downspouts, conduits, etc.

# Endura-Stone CAP AND BASE SPECIFICATIONS

All caps, bases and ornamental capitals are manufactured of low-maintenance materials. Materials for caps and bases will vary based on size and style. Standard Tuscan cap and base for our 8", 10" and 12" diameter round tapered columns are our new TimeSaver™ ABS (recycled ABS with fiberglass reinforcement). Since these are molded products, specifications shown are ±1/8", and subject to change without notice.

## TUSCAN CAP AND BASE FOR ROUND TAPERED COLUMNS:



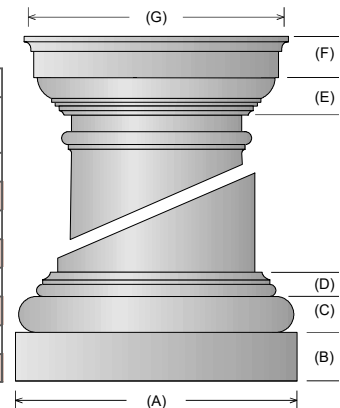
Column Diameter	Tuscan Base						Tuscan Cap					
	Plinth		Torus		Total Height	Materials Available†	Echinus	Abacus		Total Height	Materials Available†	
	(A)	(B)	(C)	(D)	(B-D)		(E)	(F)	(G)	(E-F)		
6"	8"	1 1/2"	1 1/4"	1/2"	3 1/4"	F, D	1"	1 1/16"	7 1/2"	2 1/16"	P, D	
8"	10 7/8"	1 7/8"	1 3/4"	5/8"	4 1/4"	A, F, D, P, FF	1 5/16"	1 3/8"	9 7/8"	2 11/16"	A, F, D, P, FF	
10"	13 1/2"	2 3/8"	2 1/8"	3/4"	5 1/4"	A, F, D, P, FF	1 13/16"	1 3/4"	12 1/8"	3 9/16"	A, F, D, P, FF	
12"	16 1/4"	2 3/4"	2 3/8"	7/8"	6"	A, F, D, P, FF	1 7/8"	2"	14 5/8"	3 7/8"	A, F, D, P, FF	
14"	18 5/8"	3 5/16"	3"	1"	7 5/16"	F, D	2 1/2"	2 5/16"	17"	4 15/16"	P, D	
16"	21 5/16"	3 7/8"	3 3/8"	1 1/8"	8 5/16"	F, D	2 3/4"	2 11/16"	19 1/8"	5 7/16"	P, D	
18"	24"	4 3/16"	4"	1 3/8"	9 9/16"	F, D	3"	2 15/16"	21 5/16"	5 15/16"	P, D	
20"	27"	4 3/4"	4 1/16"	1 3/4"	10 9/16"	F, D	3 1/8"	3 7/16"	24 1/4"	6 9/16"	P, D	
24"	32 1/2"	5 3/4"	5 1/4"	2 1/4"	13 1/4"	F, D	3 5/16"	4 1/8"	28 3/4"	7 7/16"	P, D	

† A—ABS, F—FRP, D—DuraStone, P—Polyurethane, FF—Foam-Filled Polystyrene; standard material is highlighted in boldface.

## ROMAN DORIC CAP AND BASE FOR ROUND TAPERED COLUMNS:

Column Diameter	Roman Doric Base†					Roman Doric Cap†			
	Plinth		Torus		Total Height	Echinus	Abacus		Total Height
	(A)	(B)	(C)	(D)	(B-D)	(E)	(F)	(G)	(E-F)
6"	8"	1 1/2"	1"	3/4"	3 1/4"	1"	1 1/4"	7 3/4"	2 1/4"
8"	10 7/8"	1 7/8"	1 7/16"	15/16"	4 1/4"	1 7/16"	1 1/2"	9 7/8"	2 15/16"
10"	13 1/2"	2 3/8"	1 3/4"	1 1/4"	5 3/8"	1 7/8"	1 3/4"	13"	3 5/8"
12"	16 1/4"	2 3/4"	2 1/16"	1 3/8"	6 3/16"	2 1/8"	2 3/8"	15 1/8"	4 1/2"
14"	18 5/8"	3 3/8"	2 3/8"	1 5/8"	7 3/8"	2 11/16"	2 3/4"	17 13/16"	5 9/16"
16"	21 5/16"	3 7/8"	2 7/8"	2"	8 3/4"	3 3/16"	3 1/8"	20 1/4"	6 5/16"
18"	24"	4 1/4"	3 1/4"	2 3/8"	9 7/8"	3 7/16"	3 1/2"	22 1/4"	6 15/16"

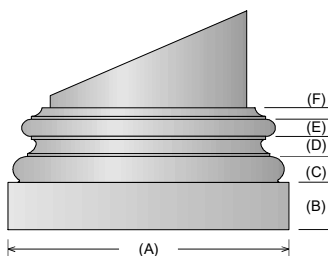
† Bases are FRP, caps are polyurethane. Only the bases are available in DuraStone—not the caps.



## ATTIC BASE FOR ROUND COLUMNS:

Column Diameter	Attic Base†						
	Plinth		Torus				Total Height
	(A)	(B)	(C)	(D)	(E)	(F)	(B-F)
6"	8"	1 1/2"	3/4"	3/4"	1/2"	1/2"	3 1/2"
8"	10 7/8"	1 7/8"	1 1/8"	7/8"	3/4"	1/2"	5 1/8"
10"	13 1/2"	2 3/8"	1 1/4"	1 1/8"	7/8"	5/8"	6 1/4"
12"	16 1/8"	2 3/4"	1 1/2"	1 3/8"	1"	5/8"	7 1/4"
14"	18 1/2"	3 5/16"	1 3/4"	1 5/8"	1 1/4"	11/16"	8 5/8"
16"	21 3/16"	3 3/4"	2 1/8"	1 7/8"	1 1/2"	13/16"	10 1/8"
18"	23 15/16"	4 1/4"	2 5/16"	2 1/8"	1 7/16"	1 1/8"	11 1/4"
20"	27 1/16"	4 3/4"	2 11/16"	2 3/8"	1 3/4"	1 7/16"	13"
24"	32 1/2"	5 3/4"	3 5/16"	2 13/16"	2 1/8"	1 3/4"	15 3/4"

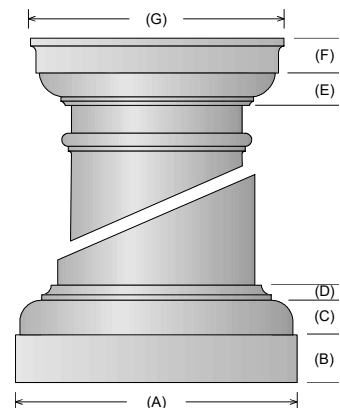
† Attic bases are FRP. Also available in DuraStone.



## BUILDERS SERIES CAP AND BASE FOR ROUND TAPERED COLUMNS:

Column Diameter	Builders Series Base†				Builders Series Cap†				
	Plinth		Torus		Total Height	Echinus	Abacus		Total Height
	(A)	(B)	(C)	(D)	(B-D)	(E)	(F)	(G)	(E-F)
8"	10 7/8"	1 7/8"	1 1/4"	5/8"	3 3/4"	1 1/4"	1 1/4"	9 7/16"	2 1/2"
10"	13 1/2"	2 3/8"	1 5/8"	9/16"	4 9/16"	1 13/16"	1 3/4"	12 3/16"	3 9/16"
12"	16 1/4"	2 3/4"	2"	7/8"	5 5/8"	1 7/8"	2"	14 5/8"	3 7/8"

† Cap and base are polystyrene (with foam core). Not available in DuraStone.



# Endura-Stone CAP AND BASE SPECIFICATIONS

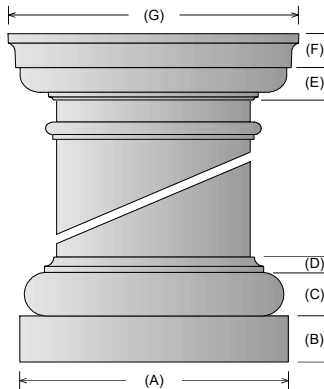
All caps and bases are manufactured of low-maintenance materials. Materials for caps and bases will vary based on size and style. Since these are molded products, specifications shown are  $\pm 1/8"$ , and subject to change without notice.

Roman Doric base and Attic base specifications are the same as for the round tapered shafts. Roman Doric caps and Ornamental capitals are not available for non-tapered round shafts.

## TUSCAN CAP AND BASE FOR ROUND NON-TAPERED COLUMNS:

Column Diameter	Tuscan Base						Tuscan Cap				
	Plinth		Torus		Total Height	Materials Available†	Echinus	Abacus		Total Height	Materials Available†
	(A)	(B)	(C)	(D)	(B-D)		(E)	(F)	(G)	(E-F)	
8"	10 7/8"	1 7/8"	1 3/4"	5/8"	4 1/4"	A, F, D	1 13/16"	1 3/4"	12 1/8"	3 9/16"	P, D
10"	13 1/2"	2 3/8"	2 1/8"	3/4"	5 1/4"	A, F, D	1 7/8"	2"	14 5/8"	3 7/8"	P, D
12"	16 1/4"	2 3/4"	2 3/8"	7/8"	6"	A, F, D	2 1/2"	2 5/16"	17"	4 13/16"	P, D
14"	18 5/8"	3 5/16"	3"	1"	7 5/16"	F, D	2 3/4"	2 11/16"	19 1/8"	5 7/16"	P, D
16"	21 5/16"	3 7/8"	3 3/8"	1 1/8"	8 5/16"	F, D	3"	2 15/16"	21 5/16"	5 15/16"	P, D
18"	24"	4 3/16"	4"	1 3/8"	9 9/16"	F, D	3 1/8"	3 7/16"	24 1/4"	6 9/16"	P, D
20"	27"	4 3/4"	4 1/16"	1 3/4"	10 9/16"	F, D	3 3/16"	4 1/8"	28 3/4"	7 5/16"	P, D
24"	32 1/2"	5 3/4"	5 1/4"	2 1/4"	13 1/4"	F, D	3 5/16"	4 1/8"	32 1/2"	7 7/16"	P, D

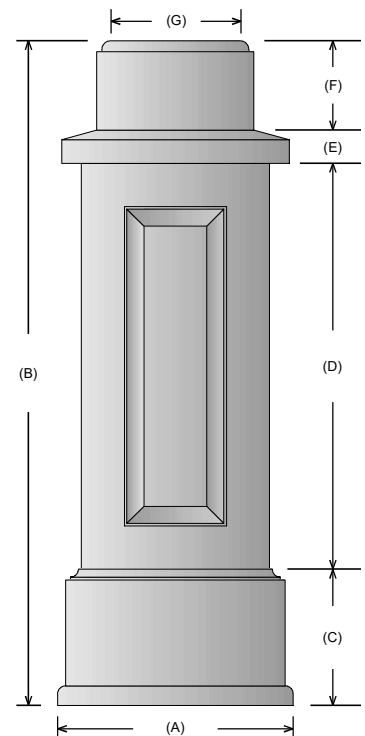
† A—ABS TimeSaver™, F—FRP, D—DuraStone, P—Polyurethane; standard material is highlighted in boldface.



## TUSCAN CAP AND BASE FOR SQUARE NON-TAPERED COLUMNS:

Column Width	Tuscan Base†					Tuscan Cap†			
	Plinth		Torus		Total Height	Echinus		Abacus	Total Height
	(A)	(B)	(C)	(D)	(B-D)	(E)	(F)	(G)	(E-F)
6"	8"	1 1/2"	1 1/4"	1/2"	3 1/4"	1"	1 1/16"	8 7/16"	2 1/16"
8"	11 3/8"	1 7/8"	1 3/4"	5/8"	4 1/4"	1 5/16"	1 7/16"	11 1/4"	2 3/4"
10"	13 1/2"	2 3/8"	2 1/8"	3/4"	5 1/4"	1 13/16"	1 3/4"	13 1/4"	3 9/16"
12"	17"	2 3/4"	2 3/8"	7/8"	6"	1 7/8"	2"	17 1/4"	3 7/8"
14"	18 13/16"	3 3/8"	2 15/16"	1 1/16"	7 3/8"	2 1/2"	2 5/16"	18 11/16"	4 13/16"

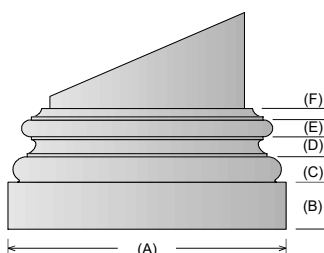
† Square caps and 6" to 12" bases are polyurethane; 14" base is FRP. FRP bases are available as special order. Also available in DuraStone.



## PEDESTAL BASE FOR SQUARE NT COLUMNS (AT RIGHT):

Column Width	Pedestal Base†						
	Bottom Width	Total Height	Bottom	Center	Platform	Top	Top Width
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
8"	15"	42 3/8"	8 11/16"	25 7/8"	2 1/8"	5 11/16"	8 1/4"

† Pedestal bases are FRP. Also available in DuraStone. Use with Tuscan cap (above) or Ornamental Capitals.



## ATTIC BASE FOR SQUARE COLUMNS:

Column Diameter	Attic Base†						
	Plinth		Torus				Total Height
	(A)	(B)	(C)	(D)	(E)	(F)	(B-F)
6"	8"	1 1/2"	3/4"	3/4"	1/2"	1/2"	3 1/2"
8"	11 3/8"	1 7/8"	1 1/8"	7/8"	3/4"	1/2"	5 1/8"
10"	13 1/2"	2 3/8"	1 1/4"	1 1/8"	7/8"	5/8"	6 1/4"
12"	17"	2 3/4"	1 1/2"	1 3/8"	1"	5/8"	7 1/4"
14"	18 13/16"	3 5/16"	1 3/4"	1 5/8"	1 1/4"	11/16"	8 5/8"

† Attic bases are FRP. Also available in DuraStone.

# Endura-Stone ORNAMENTAL CAPITALS

## “QUICK-FIT” CAPITALS FOR ROUND TAPERED FRP SHAFTS

The most visually impressive implementations of columns are those with decorative Ornamental Capitals. Designed with crisp, true architectural detail, Ornamental Capitals artfully capture natural themes and images. For example, the volute scrolls of the Ionic, Eretheum, Scamozzi and Empire styles imitate the helix cross-section of the Nautilus shell. The Acanthus leaves on the Temple of Winds and Roman Corinthian capitals echo the flowering crown of a tree. These Ornamental Capitals are specifically for Endura-Stone *tapered* column shafts only. Each style is proportionally scaled for the diameter of the shaft.

Our specially designed Quick-Fit capitals simplify or eliminate the need to trim the column shaft before installation! Trimming the shaft at the neck ring or at the fillet below the neck ring is a difficult task in the field. Since the Quick-Fit capitals slide over the column neck and set on the neck ring, it is no longer necessary to attempt to trim at the neck ring or fillet. For capitals that are taller than the column shaft neck, no trimming is necessary at all, since the capital is load-bearing. For those capitals which are shorter than the column shaft neck, the shaft will still need to be trimmed, but the point where it needs to be cut is much more easily accomplished since the astragal is not in the way. (The shaft will need to be trimmed to leave the neck 1/8" taller than the capital, since the shorter capitals are not load-bearing. The extra 1/8" shaft neck provides load-bearing support through the capital, and prevents the capital from being compressed by the load.)

Because of the Quick-Fit easier installation method, Turncraft will normally ship the Quick-Fit capitals, unless a preference is indicated for the standard Poly/Resin (see next page). For example, it would be best not to mix Quick-Fit and standard capitals when different size or style columns are used on one jobsite (i.e., if using 12" Scamozzi and 20" Scamozzi capitals, the astragal would be different for Quick-Fit than for standard capitals.)

Quick-Fit capitals are available in paint-grade materials (see table) or DuraStone pre-colored FRP (Ivory, Sand or Slate) to match our DuraStone column line. More sizes will be added to the Quick-Fit line as we are able to create molds.



### GREEK ERECTHEUM

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust	Material
6"	3 1/4"	6 9/16"	8 3/8"	+ 3/8"	FRP, DuraStone



### ROMAN CORINTHIAN

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust	Material
6"	8 11/16"	11"	N/A	+ 5 11/16"	FRP, DuraStone
8"	11 5/16"	14 5/16"	N/A	+ 7 1/16"	FRP, DuraStone
10"	14 3/16"	18 1/8"	N/A	+ 9 1/16"	FRP, DuraStone
12"	17"	21 3/4"	N/A	+ 12 1/4"	FRP, DuraStone



### ROMAN IONIC

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust	Material
6"	2 3/16"	6"	8"	- 11/16"	Poly, DuraStone



### SCAMOZZI

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust	Material
6"	2 7/16"	8 5/8"	8 1/2"	- 7 3/16"	Poly, DuraStone
8"	3"	11"	10 13/16"	- 1 1/8"	Poly, DuraStone
10"	4 1/8"	14 1/2"	14 3/8"	- 7/8"	Poly, DuraStone
12"	4 13/16"	17"	16 3/4"	+ 1/16"	Poly, DuraStone

# Endura-Stone ORNAMENTAL CAPITALS

## CAPITALS FOR ROUND TAPERED COLUMNS

Designed with crisp, true architectural detail, Ornamental Capitals artfully capture natural themes and images. These paint-grade Ornamental Capitals are specifically for Endura-Stone *tapered* column shafts only. Each style is proportionally scaled for the diameter of the shaft. For best fit and correct style, the column shafts are to be trimmed at the architecturally correct location for the selected capital—see the note in each table. The “Height Adjust” value in the tables below indicate how the column trimming and capital height affect the overall maximum height of the column when installed. Capitals from 6” to 24” diameters are all load-bearing poly/resin materials. (Capitals shown as 30” are for DuraGlass resin-infused fiberglass columns. These 30” capitals are composite plaster and are *not* load-bearing. The column will ship with a load bearing solution as needed.)



### EMPIRE (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	3 1/8"	9"	8 3/4"	- 3/8"
8"	3 3/4"	10"	9"	-1"
10"	5 1/2"	16"	13 1/2"	- 3/8"
12"	6 1/4"	18"	17"	+ 3/4"
14"	7 1/4"	20 1/4"	19 1/2"	- 1/2"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	8 3/4"	23"	19 1/2"	+ 3/8"
18"	10"	32"	26 1/4"	+ 1 1/8"
20"	11 1/4"	34"	28"	+ 11/16"
24"	12 3/4"	35 1/2"	35"	- 7/8"
30"	N/A			



### EMPIRE WITH NECKING (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	6 7/8"	9"	8 3/4"	+ 3 7/8"
8"	7 3/4"	10"	9"	+ 3 1/2"
10"	10"	13 1/2"	12 1/4"	+ 4 7/8"
12"	11"	18"	17"	+ 6 1/4"
14"	14 1/2"	20 1/2"	19 1/2"	+ 7 3/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	17"	23"	19 1/2"	+ 9 5/8"
18"	15"	32"	26 1/4"	+ 7 1/8"
20"	17 1/4"	34"	28"	+ 8 1/16"
24"	19"	35 1/2"	35"	+ 7"
30"	N/A			



### GREEK ANGULAR IONIC (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	3 5/8"	9 1/4"	9"	+ 1/8"
8"	3 3/4"	9 1/2"	9"	- 1"
10"	5 3/8"	14 1/4"	13 1/4"	- 1/2"
2"	6"	17 1/4"	17"	+ 1/2"
14"	7 1/4"	20 3/4"	19 1/4"	- 1/2"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	8 3/8"	20 1/2"	19 1/2"	0"
18"	9 3/4"	24 1/4"	19 3/4"	+ 7/8"
20"	11"	29 3/4"	28"	+ 7/16"
24"	12 3/4"	35"	34 1/2"	- 7/8"
30"	N/A			



### GREEK ERETHEUM (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6" *	3 1/4"	6 3/4"	8 1/2"	- 1/4"
8"	3 3/4"	7 3/4"	11 3/4"	- 1"
10"	5 1/2"	12"	17 1/2"	- 3/8"
12"	6 1/4"	14 1/2"	21"	+ 3/4"
14"	7"	15"	21"	- 3/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	9"	17 1/2"	26"	+ 5/8"
18"	10 1/2"	22"	29"	+ 1 5/8"
20"	11"	26"	36"	+ 7/16"
24"	13"	30 1/2"	43"	- 5/8"
30"	15"	31"	45 1/2"	



### GREEK ERETHEUM WITH NECKING (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	5 3/4"	7 3/4"	11 3/4"	+ 2 3/4"
8"	7 1/2"	10 1/2"	15"	+ 3 1/4"
10"	8 1/2"	12"	17 1/4"	+ 3 3/8"
12"	9 1/2"	14 1/2"	21"	+ 4 3/4"
14"	11 1/4"	15"	21"	+ 4 1/2"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	13 1/2"	17 1/2"	26"	+ 6 1/8"
18"	15"	22 1/2"	29"	+ 7 1/8"
20"	17"	26"	36"	+ 7 13/16"
24"	19"	30 1/2"	43"	+ 7"
30"	24 3/4"	31"	45 1/2"	

\*Special order—normally this size capital would be our Quick-Fit model, listed after next page.



## Endura-Stone ORNAMENTAL CAPITALS (CONT'D)



Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	7"	8"	N/A	+ 4"
8"	8 1/2"	10 3/4"	N/A	+ 4 1/4"
10"	12 1/4"	16 1/2"	N/A	+ 7 1/8"
12"	14 1/2"	19"	N/A	+ 9 3/4"
14"	17"	20"	N/A	+ 10 1/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	N/A			
18"	22 1/2"	25"	N/A	+ 14 5/8"
20"	22 1/2"	25"	N/A	+ 13 5/16"
24"	N/A			
30"	N/A			



### ROMAN CORINTHIAN (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6" *	7"	9 1/2"	N/A	4"
8" *	10 1/4"	13 3/4"	N/A	6"
10" *	13 7/8"	17 3/4"	N/A	8 3/4"
12" *	15 1/4"	18 1/2"	N/A	9 1/2"
14"	17"	22"	N/A	10 1/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	20"	27"	N/A	+ 12 5/8"
18"	23"	32 1/2"	N/A	+ 15 1/8"
20"	25 1/2"	39"	N/A	+ 16 5/16"
24"	28 1/2"	42"	N/A	+ 16 1/2"
30"	37 1/2"	16 1/2"	N/A	



### ROMAN DORIC ORNAMENTAL (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	4"	8 3/4"	N/A	+ 1/2"
8"	6"	13 1/8"	N/A	+ 1 1/4"
10"	7"	16 1/4"	N/A	+ 1 1/8"
12"	7"	16 1/4"	N/A	+ 1 1/2"
14"	9"	21"	N/A	+ 1 1/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	10 1/2"	24"	N/A	+ 2 1/8"
18"	12 1/2"	28"	N/A	+ 3 5/8"
20"	12 1/2"	28"	N/A	+ 1 15/16"
24"	N/A			
30"	N/A			



### ROMAN IONIC (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6" *	2 1/4"	6 1/8"	8 1/16"	- 1 1/4"
8"	3"	8 1/4"	10 1/2"	- 1 3/4"
10"	3 5/8"	11"	13 5/8"	- 2 1/4"
12"	4 1/2"	12 1/2"	16 1/2"	- 1"
14"	5 1/2"	17 1/2"	23"	- 2 1/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	6 1/8"	17 1/2"	22"	- 2 1/4"
18"	6 1/2"	20"	24 1/4"	- 2 3/8"
20"	8 3/4"	25"	31 3/4"	- 1 13/16"
24"	9"	25 1/4"	33"	- 4 5/8"
30"	12 1/2"	32"	40 1/2"	



### SCAMOZZI (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6" *	2 5/8"	7 3/4"	6 1/4"	- 7/8"
8" *	3"	10 1/4"	9"	- 1 3/4"
10" *	3 7/8"	14 1/2"	12 1/2"	- 2"
12" *	4 7/8"	16 3/4"	14"	- 5/8"
14"	5 1/2"	19"	16 3/4"	- 2 1/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	6 1/4"	22 1/4"	18 1/2"	- 2 1/8"
18"	7"	23 1/2"	23"	- 1 7/8"
20"	8 3/4"	26"	21 1/2"	- 1 13/16"
24"	10 1/4"	34 1/4"	29 1/2"	- 3 3/8"
30"	12 3/4"	39"	33"	



### TEMPLE OF WINDS (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	7"	8"	N/A	4"
8"	8"	12"	N/A	3 3/4"
10"	11 1/8"	15 1/4"	N/A	6"
12"	13 3/4"	17"	N/A	9"
14"	14"	21 1/4"	N/A	7 1/4"

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
16"	16"	23"	N/A	8 5/8"
18"	18 1/8"	26 3/4"	N/A	10 1/4"
20"	21 1/4"	28"	N/A	12 1/16"
24"	23 1/4"	34 1/4"	N/A	11 1/4"
30"	30"	39"	N/A	

\*Special order—normally this size capital would be our Quick-Fit model. See following page.

# Endura-Stone SQUARE ORNAMENTAL CAPITALS

Designed with crisp, true architectural detail, Ornamental Capitals artfully capture natural themes and images. Capitals for square non-tapered Endura-Stone columns are crafted from poly/resin, and are load bearing and waterproof. Each style is proportionally scaled for the width of the shaft when the shaft is trimmed at the astragal for easy installation. Since the shafts will need to be trimmed, the over-all height of the finished column will need to be adjusted by the "Height Adjust" value in the following tables. If an architecturally correct installation will be required, the shaft should be trimmed at the top fillet for Greek Erectheum, Roman Ionic and Scamozzi capitals, and the overall height will be further reduced by the height of the neck ring (see shaft specifications for the astragal neck ring height).



**EMPIRE** (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
8"	5 1/4"	13 1/2"	12 1/4"	+ 3/8"
10"	6 1/4"	18"	17"	+ 1 3/4"
12"	7 1/4"	20 1/4"	19 1/2"	+ 3/4"
14"	8 3/4"	23"	19 1/2"	+ 1 3/4"
16"	10"	32"	26 1/4"	+ 1 5/16"



**EMPIRE WITH NECKING** (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	7 3/4"	10"	9"	+ 4 1/8"
8"	10"	13 1/2"	12 1/4"	+ 5 1/2"
10"	11"	18"	17"	+ 5 15/16"
12"	14 1/2"	20 1/2"	19 1/2"	+ 9 3/4"
14"	17"	23"	19 1/2"	+ 10"
16"	17 1/4"	34"	28"	+ 9 5/8"



**GREEK ANGULAR IONIC** (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
8"	5 1/8"	14 1/4"	13 3/4"	- 3/16"
10"	6"	17 1/4"	17"	+ 1/8"
12"	7 1/4"	20 3/4"	19 1/4"	+ 1 3/4"
14"	8 3/8"	20 1/2"	19 1/2"	+ 3/8"



**GREEK ERECTHEUM** (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	3 3/4"	7 3/4"	11 3/4"	- 11/16"
8"	5 1/4"	10 1/2"	15"	- 1/16"
10"	6 1/4"	14 1/2"	21"	+ 3/8"
12"	7"	15"	21"	+ 2 1/2"
14"	9"	17 1/2"	26"	+ 1"
16"	10"	22 1/2"	29"	+ 1 5/16"



**GREEK ERECTHEUM WITH NECKING** (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	5 3/4"	7 3/4"	11 3/4"	+ 2 1/8"
8"	7 1/2"	10 1/2"	15"	+ 3"
10"	9 1/2"	14 1/2"	21"	+ 4 7/16"
12"	11 1/4"	15"	21"	+ 6 3/4"
14"	13 1/2"	17 1/2"	26"	+ 6 1/2"
16"	17"	26"	36"	+ 9 3/8"



## Endura-Stone SQUARE ORNAMENTAL CAPITALS (CONT'D)



### MODERN COMPOSITE (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Height Adjust
6"	8 1/2"	10 3/4"	+ 4 7/8"
8"	11 1/2"	16 1/2"	+ 7"
10"	14 1/2"	19"	+ 9 7/16"
12"	17"	20"	+ 12 1/2"
14"	22 1/2"	25"	+ 15 1/2"
16"	22 1/2"	25"	+ 14 7/8"



### ROMAN CORINTHIAN (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Height Adjust
6"	8 1/2"	12"	+ 4 7/8"
8"	11 1/2"	15"	+ 7"
10"	14 1/2"	18 1/2"	+ 9 7/16"
12"	17"	22"	+ 12 1/2"
14"	20"	27"	+ 13"
16"	23"	32 1/2"	+ 15 3/8"



### ROMAN DORIC ORNAMENTAL (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Height Adjust
6"	4 1/2"	10 1/2"	+ 1/16"
8"	6"	14 1/4"	+ 11/16"
12"	9"	21"	+ 3 1/2"
14"	10 1/2"	24"	+ 2 1/2"



### ROMAN IONIC (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	3"	8 1/4"	10 1/2"	- 1 7/16"
8"	3 5/8"	10 1/2"	13 1/2"	-1 11/16"
10"	4 1/2"	12 1/2"	16 1/2"	- 1 3/8"
12"	5 1/2"	17 1/2"	23"	0"



### SCAMOZZI (TRIM COLUMN SHAFT TO TOP OF FILLET)

Column Size	Capital Height	Abacus Width	Scroll Width	Height Adjust
6"	3"	10 1/4"	9"	-7/8"
8"	3 7/8"	14 1/2"	12 1/2"	-5/8"
10"	4 7/8"	16 3/4"	14"	-7/8"
12"	5 1/2"	19"	16 3/4"	-1/4"
14"	6 1/4"	22 1/4"	18 1/2"	-1 1/2"



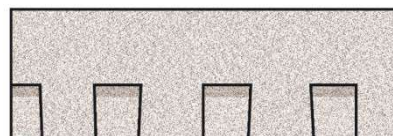
### TEMPLE OF WINDS (TRIM COLUMN SHAFT TO TOP OF NECK RING)

Column Size	Capital Height	Abacus Width	Height Adjust
6"	7 1/2"	10 1/2"	+ 3 7/8"
8"	10"	13 7/8"	+ 5 1/2"
10"	11 5/8"	16 7/8"	+ 6 9/16"
12"	14"	21 1/4"	+ 9 1/2"
14"	16"	23"	+ 9"
16"	18 1/8"	16 3/4"	+ 10 1/2"

## Landmark®, Landmark® Premium, Landmark® Pro Shingles, Landmark® Pro/Architect 80 (NW Region Only) Shingles

### PRODUCT INFORMATION

Landmark shingles reflect the same high manufacturing standards and superior warranty protection as the rest of CertainTeed's line of roofing products. Landmark Premium (and Algae Resistant-AR), Landmark PRO (and AR) and Landmark (and AR) are built with the industry's toughest fiber glass mat base, and their strict dimensional tolerance assures consistency. Complex granule color blends and subtle shadow lines produce a distinctive color selection. Landmark is produced with the unique NailTrak® nailing feature. **Please see the installation instruction section below for important information regarding NailTrak.**



In the Northwest Region Landmark PRO (AR) is double-branded as Landmark PRO/Architect 80 (AR).

Landmark algae-resistant (AR) shingles are algae-resistant and help protect against dark or black discoloration, sometimes called staining or streaking, caused by blue-green algae. AR shingles are not available in all regions.

**Colors:** Please refer to the product brochure or CertainTeed website for the colors available in your region.

**Limitations:** Use on roofs with slopes greater than 2" per foot. Low-slope applications (2:12 to < 4:12) require additional underlayment. In areas where icing along eaves can cause the back-up of water, apply CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

**Product Composition:** Landmark Series shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special, tough asphaltic cement. All Landmark shingles have self-sealing adhesive strips.

### Applicable Standards

ASTM D3018 Type I

ASTM D3462

ASTM E108 Class A Fire Resistance

ASTM D3161 Class F Wind Resistance

ASTM D7158 Class H Wind Resistance

UL 790 Class A Fire Resistance

ICC-ES ESR-1389 and ESR-3537

CSA Standard A123.5 (Regional)

Miami-Dade Product Control Approved

Florida Product Approval # FL5444

Meets TDI Windstorm Requirements

### Technical Data:

	<b>Landmark (and AR)</b>	<b>Landmark PRO* (and AR)</b>	<b>Landmark Premium (and AR)</b>
Weight/Square (approx.)	219 to 238 lb **	240 to 267 lb **	300 lb
Dimensions (overall)	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"
Shingles/Square (approx.)	66	66	66
Weather Exposure	5 5/8"	5 5/8"	5 5/8"

\*Includes Landmark PRO AR/Architect 80

\*\*Dependent on manufacturing location

## **INSTALLATION**

Detailed installation instructions are supplied on each bundle of Landmark shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

**Hips and Ridges:** For capping hip and ridge apply CertainTeed Shadow Ridge®, Cedar Crest® or Mountain Ridge® shingles of a like color.

## **MAINTENANCE**

These shingles do not require maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

## **WARRANTY**

Landmark Premium (and AR), Landmark PRO/Architect 80 AR, Landmark PRO (and AR), and Landmark (and AR) shingles carry a lifetime limited, transferable warranty to the consumer against manufacturing defects when applied to stated CertainTeed application instructions for this product. In addition, Landmark Premium (and AR), Landmark PRO (and AR), Landmark PRO/Architect 80 AR, and Landmark (and AR) carry 10-years of SureStart™ Protection. Landmark AR shingles carry a 10-year algae resistance warranty. Landmark Premium AR, Landmark PRO AR, and Landmark PRO/Architect 80 AR shingles carry a 15-year algae resistance warranty. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at [www.certainteed.com](http://www.certainteed.com)).

## **FOR MORE INFORMATION**

Sales Support Group: 800-233-8990

Web site: [www.certainteed.com](http://www.certainteed.com)

See us at our on-line specification writing tool, CertaSpec®, at [www.certainteed.com/certaspec](http://www.certainteed.com/certaspec).

### **CertainTeed**

20 Moores Road  
Malvern, PA 19355

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## Document Navigation Tips:

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Bookmarks are also included in this PDF document and are available as an additional navigation option.

## Supporting documents for this product:

Test Reports:

[https://media.pella.com/professional/adm/CertificationReports/Test\\_Reports\\_AS-Clad.pdf](https://media.pella.com/professional/adm/CertificationReports/Test_Reports_AS-Clad.pdf)

CSI Specs (readable using Microsoft Word or other text editing application):

[https://media.pella.com/professional/adm/Wood-CSI\\_Specs/Masterspec/085200\\_fl.doc](https://media.pella.com/professional/adm/Wood-CSI_Specs/Masterspec/085200_fl.doc)

Detailed Product Description (readable using Microsoft Word or other text editing application):

<https://media.pella.com/professional/adm/Clad-Wood/AST-CM-C.rtf>

Size Tables (requires appropriate CAD software to read and use):

[https://media.pella.com/professional/adm/Clad-Wood/ASCCMEV\\_D.dwg](https://media.pella.com/professional/adm/Clad-Wood/ASCCMEV_D.dwg)

CAD cross sections (requires appropriate CAD software to read and use):

[https://media.pella.com/professional/adm/Clad-Wood/AST-CM-Detail\\_D.dwg](https://media.pella.com/professional/adm/Clad-Wood/AST-CM-Detail_D.dwg)

3D & BIM / REVIT (requires appropriate software to read and use):

[https://media.pella.com/professional/adm/RevitFiles/AS-Revit/Window-Casement-Pella-Architect\\_Series.zip](https://media.pella.com/professional/adm/RevitFiles/AS-Revit/Window-Casement-Pella-Architect_Series.zip)

Sketchup (requires appropriate software to read and use):

[https://media.pella.com/professional/adm/Clad-Wood/PellaSKP\\_ArchitectSeries\\_Traditional\\_Casement.zip](https://media.pella.com/professional/adm/Clad-Wood/PellaSKP_ArchitectSeries_Traditional_Casement.zip)

Combination Recommendations:

[https://media.pella.com/professional/adm/Clad-Wood/D\\_Combinations.pdf](https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf)

Installation Details:

[https://media.pella.com/professional/adm/Clad-Wood/F\\_InstallationDetails.pdf](https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf)

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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.

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# Architect Series® Traditional Casement Window

## Size and Performance Data

	Clad	Wood
<b>Sizes</b>		
Standard vent/fixed sizes	●	●
Standard fixed companion sizes	●	●
Egress sizes	●	●
Special sizes available	●	●
<b>Performance<sub>1</sub></b>		
Meets or Exceeds AAMA/WDMA Ratings	CW30 - CW50 Hallmark Certified	LC30 - LC50 Hallmark Certified
Air Infiltration (cfm/ft <sup>2</sup> of frame @ 1.57 psf wind pressure)	0.05	0.05
Water Resistance	7.5 psf	4.6 - 7.5 psf
Design Pressure	30 - 50 psf	30 - 50 psf
Products with Impact-Resistant Glass	LC +/-60 - LC +75/-85 Hallmark Certified	—
<b>Other Performance Criteria</b>		
Forced Entry Resistance Level (Minimum Security Grade) <sub>2</sub>	10	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) <sub>3</sub>	15/6	15/6

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

Product	Frame Size Tested <sub>3</sub>	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
Standard Clad Window	Vent without Grilles						
	23" x 59"	11/16"	2.5mm	2.5mm	–	28	25
	23" x 59"	11/16"	3mm	5mm	–	33	27
	23" x 59"	11/16"	3mm	6.0mm PVB	–	33	28
	Fixed without Grilles						
	47" x 59"	11/16"	3mm	3mm	–	29	24
	47" x 59"	11/16"	3mm	5mm	–	32	27
	47" x 59"	11/16"	3mm	6.0mm PVB	–	32	28
Clad Window with Impact-Resistant Glass	Vent without Grilles						
	29" x 53"	11/16"	3mm	7.6mm PVB	–	35	30
	29" x 53"	1"	5mm	10.1mm SGP	–	35	31
	Fixed without Grilles						
	47" x 59"	11/16"	3mm	7.6mm PVB	–	33	29
	53" x 53"	1"	5mm	10.1mm SGP	–	35	30

(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. Values shown are for standard and special sizes; Custom shapes and sizes may not have the same values. Contact your local sales representative for complete information.

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

(3) Glazing configurations may result in higher operational forces

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

**NOTE:** Performance with additional options may not be the same as Standard and Special size units. Please contact your local Pella representative for complete information.



# Architect Series® Traditional Casement Window

## Features and Options

Standard	Options / Upgrades
<b>Glazing</b>	
<b>Glazing Type</b>	
Dual-Pane Insulating Glass	Triple-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>
	Low-E Tinted Glass (Bronze, Gray and Green)
	Non-Impact Laminated Dual-Pane Insulating Glass
	Impact-Resistant Laminated Dual-Pane 11/16" Insulating Glass
<b>Gas Fill/High Altitude</b>	
Argon	High altitude
	High Altitude with Argon <sup>2</sup>
<b>Wood Types</b>	
Pine	—
<b>Exterior</b>	
<b>Exterior Sash Profile</b>	
Ogee - clad	Putty Glaze - clad or wood
<b>Exterior Finish</b>	
EnduraClad® protective finish	EnduraClad Plus protective finish
	Factory Primed Pine wood exterior
<b>Cladding Colors<sup>1</sup></b>	
Standard colors	Feature Colors, Custom colors
<b>Interior</b>	
<b>Interior Sash Profile</b>	
Ogee	—
<b>Interior Finish</b>	
Unfinished Wood	Factory primed <sup>3</sup> , Factory prefinished paint <sup>3</sup> , Factory prefinished stain
<b>Hardware</b>	
<b>Hardware Type</b>	
Wash hinge Hardware	Side Pivot
<b>Hardware Style</b>	
Standard Fold-Away crank	Antiek Fold-Away crank
<b>Hardware Finishes</b>	
Champagne, White, Brown or Matte Black	Satin Nickel, Oil-Rubbed Bronze, Distressed Bronze, Distressed Nickel <sup>4</sup>
<b>Sash Locks</b>	
SureLock® System, Unison Lock System <sup>5</sup>	—
<b>Grilles</b>	
<b>Integral Light Technology® Grilles</b>	
—	Traditional, Prairie, Top Row, Cross, New England, Victorian, Simulated French, Custom
<b>Grilles-Between-the-Glass</b>	
—	Traditional, Prairie, Top Row <sup>1</sup> , Cross or Custom-Equally Divided
<b>Screens</b>	
—	InView™ screens, Rolscreen® Retractable screens

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

(2) Available with Low-E argon-insulated glass only.

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

(4) Distressed Bronze, and Distressed Nickel are only available with Antiek Fold-Away Crank.

(5) Unit height determines availability.



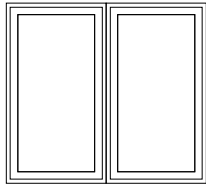
## Architect Series® Traditional Casement Window

### Combinations

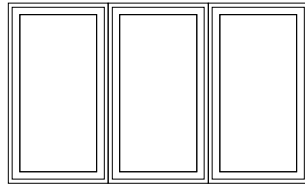
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are some examples of factory-assembled combinations. See the Combinations Recommendations document for typical mullions, requirements and limitations.

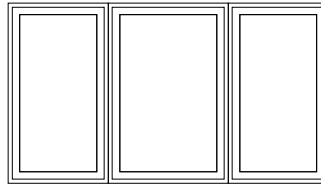
Contact your local Pella sales representative for more information.



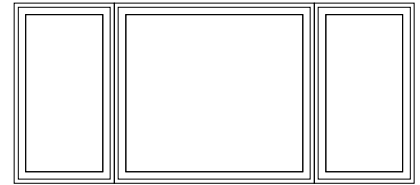
Two-Wide



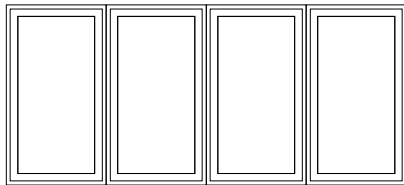
Three-Wide Equal



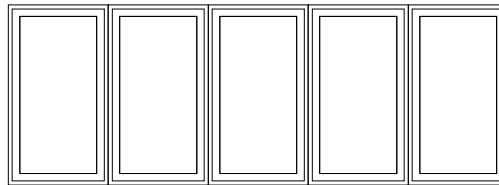
Three-Wide Unequal



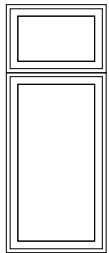
Center Fixed with Flankers



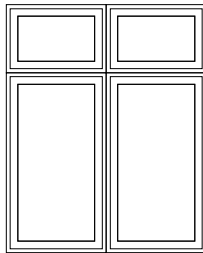
Four-Wide



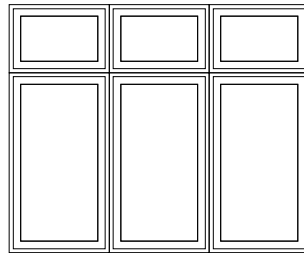
Five-Wide



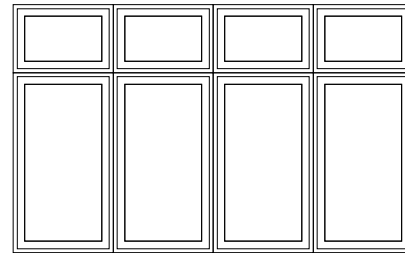
Transom over  
Single



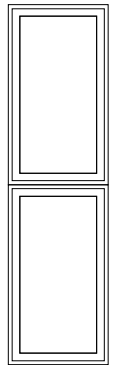
Two-Wide Transom  
over Two-Wide



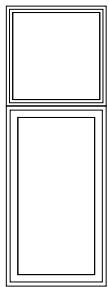
Three-Wide Transom over  
Three-Wide



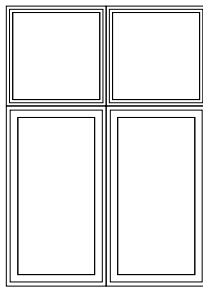
Four-Wide Transom over  
Four-Wide



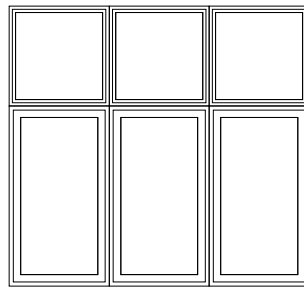
Two-High



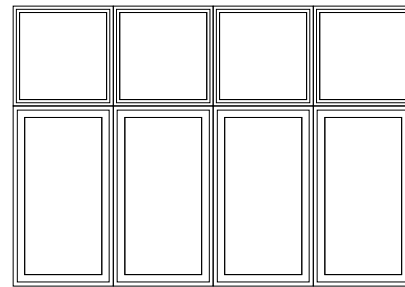
Clad Frame over  
Single



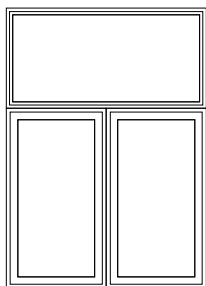
Two-Wide Clad Frame over  
Two-Wide



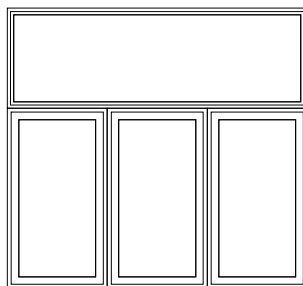
Three-Wide Clad Frame over  
Three-Wide



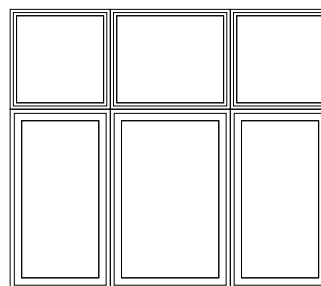
Four-Wide Clad Frame over  
Four-Wide



Single Clad Frame over  
Two-Wide



Single Clad Frame over  
Three-Wide



Three-Wide Clad Frame over  
Three-Wide Unequal



# Architect Series® Traditional Casement Window

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>	
										Zone				ER	Zone
Vent Dual-Pane Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA	
11/16"	Clear IG	PEL-N-11-21566-00001	3	3	Air	0.44	0.53	0.56	44						
	with grilles-between-the-glass	PEL-N-11-21757-00001				0.44	0.49	0.51	44						
	with integral grilles	PEL-N-11-21764-00001				0.44	0.49	0.51	44						
11/16"	Advanced Low-E IG	PEL-N-11-21561-00002	3	3	Argon	0.28	0.26	0.48	62		NC				
	with grilles-between-the-glass	PEL-N-11-21749-00002				0.28	0.24	0.43	61		NC	SC	S		
	with integral grilles	PEL-N-11-21752-00002				0.29	0.24	0.43	62		NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-11-21562-00002	3	3	Argon	0.28	0.19	0.44	62		NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21750-00002				0.28	0.18	0.40	62		NC	SC	S		
	with integral grilles	PEL-N-11-21753-00002				0.28	0.18	0.40	62		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-11-21565-00001	3	3	Argon	0.25	0.25	0.47	48	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21756-00001				0.25	0.23	0.42	48	N	NC	SC	S		
	with integral grilles	PEL-N-11-21763-00001				0.27	0.23	0.42	48	N	NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-11-21563-00002	3	3	Argon	0.29	0.47	0.54	61	N					
	with grilles-between-the-glass	PEL-N-11-21751-00002				0.29	0.43	0.49	61	N					
	with integral grilles	PEL-N-11-21754-00002				0.29	0.43	0.49	61	N					
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-11-21603-00001	5	3	Argon	0.29	0.23	0.31	60		NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21833-00001				0.30	0.21	0.28	60		NC	SC	S		
	with integral grilles	PEL-N-11-21839-00001				0.30	0.21	0.28	60		NC	SC	S		
11/16"	Gray Advanced Low-E IG	PEL-N-11-21604-00001	5	3	Argon	0.29	0.21	0.26	60		NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21834-00001				0.30	0.19	0.24	60		NC	SC	S		
	with integral grilles	PEL-N-11-21840-00001				0.30	0.19	0.24	60		NC	SC	S		
11/16"	Green Advanced Low-E IG	PEL-N-11-21605-00001	5	3	Argon	0.29	0.26	0.42	60		NC				
	with grilles-between-the-glass	PEL-N-11-21835-00001				0.30	0.24	0.38	60		NC	SC	S		
	with integral grilles	PEL-N-11-21841-00001				0.30	0.24	0.38	60		NC	SC	S		
High Altitude Glazing															
11/16"	Advanced Low-E IG	PEL-N-11-21567-00001	3	3	Air	0.31	0.26	0.48	57						
	with grilles-between-the-glass	PEL-N-11-21758-00001				0.32	0.24	0.43	57				S		
	with integral grilles	PEL-N-11-21765-00001				0.32	0.24	0.43	57				S		
11/16"	SunDefense Low-E IG	PEL-N-11-21568-00001	3	3	Air	0.31	0.20	0.44	58				S		
	with grilles-between-the-glass	PEL-N-11-21759-00001				0.32	0.18	0.40	58				S		
	with integral grilles	PEL-N-11-21766-00001				0.32	0.18	0.40	58				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-11-21570-00001	3	3	Air	0.27	0.25	0.47	44	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21761-00001				0.28	0.23	0.42	44		NC	SC	S		
	with integral grilles	PEL-N-11-21768-00001				0.29	0.23	0.42	44		NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-11-21569-00001	3	3	Air	0.32	0.47	0.54	57						
	with grilles-between-the-glass	PEL-N-11-21760-00001				0.33	0.43	0.49	57						
	with integral grilles	PEL-N-11-21767-00001				0.33	0.43	0.49	57						

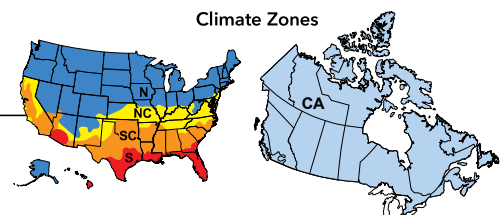
R-Value = 1/U-Factor  
 SHGC = Solar Heat Gain Coefficient  
 VLT % = Visible Light Transmission  
 CR = Condensation Resistance  
 ER = Canadian Energy Rating

(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.

Based on unit size, some products will use 2.5 mm glass that will have equivalent or improved performance from what is shown.

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







# Architect Series® Traditional Casement 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
Fixed Dual-Pane Glazing - Aluminum-Clad Exterior										N	NC	SC	S	CA	
11/16"	Clear IG	PEL-N-1-53572-00001	3	3	Air	0.45	0.62	0.65	44						
	with grilles-between-the-glass	PEL-N-1-53763-00001				0.46	0.56	0.58	44						
	with integral grilles	PEL-N-1-53770-00001				0.46	0.56	0.58	44						
11/16"	Advanced Low-E IG	PEL-N-1-53567-00002	3	3	Argon	0.27	0.30	0.55	62	N	NC				
	with grilles-between-the-glass	PEL-N-1-53755-00002				0.28	0.27	0.50	62		NC				
	with integral grilles	PEL-N-1-53758-00002				0.28	0.27	0.50	62		NC				
11/16"	SunDefense™ Low-E IG	PEL-N-1-53568-00002	3	3	Argon	0.26	0.22	0.51	62	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-1-53756-00002				0.27	0.20	0.46	62	N	NC	SC	S		
	with integral grilles	PEL-N-1-53759-00002				0.27	0.20	0.46	62	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-1-53571-00001	3	3	Argon	0.23	0.29	0.54	48	N	NC				
	with grilles-between-the-glass	PEL-N-1-53762-00001				0.24	0.26	0.48	48	N	NC				
	with integral grilles	PEL-N-1-53769-00001				0.25	0.26	0.48	48	N	NC				
11/16"	NaturalSun Low-E IG	PEL-N-1-53569-00002	3	3	Argon	0.28	0.55	0.63	61	N				37	CA
	with grilles-between-the-glass	PEL-N-1-53757-00002				0.28	0.49	0.56	61	N					
	with integral grilles	PEL-N-1-53760-00002				0.29	0.49	0.56	61	N					
Tinted Glazing															
11/16"	Bronze Advanced Low-E	PEL-N-1-53609-00001	5	3	Argon	0.28	0.26	0.36	59		NC				
	with grilles-between-the-glass	PEL-N-1-53839-00001				0.29	0.24	0.32	59		NC	SC	S		
	with integral grilles	PEL-N-1-53845-00001				0.29	0.24	0.32	59		NC	SC	S		
11/16"	Gray Advanced Low-E IG	PEL-N-1-53610-00001	5	3	Argon	0.28	0.24	0.31	59		NC	SC	S		
	with grilles-between-the-glass	PEL-N-1-53840-00001				0.29	0.22	0.27	59		NC	SC	S		
	with integral grilles	PEL-N-1-53846-00001				0.29	0.22	0.27	59		NC	SC	S		
11/16"	Green Advanced Low-E IG	PEL-N-1-53611-00001	5	3	Argon	0.28	0.30	0.49	59		NC				
	with grilles-between-the-glass	PEL-N-1-53841-00001				0.29	0.27	0.43	59		NC				
	with integral grilles	PEL-N-1-53847-00001				0.29	0.27	0.43	59		NC				
High Altitude Glazing															
11/16"	Advanced Low-E IG	PEL-N-1-53573-00001	3	3	Air	0.31	0.30	0.55	57						
	with grilles-between-the-glass	PEL-N-1-53764-00001				0.32	0.27	0.50	57						
	with integral grilles	PEL-N-1-53771-00001				0.32	0.27	0.50	57						
11/16"	SunDefense Low-E IG	PEL-N-1-53574-00001	3	3	Air	0.30	0.22	0.51	57		NC	SC	S		
	with grilles-between-the-glass	PEL-N-1-53765-00001				0.31	0.20	0.46	57				S		
	with integral grilles	PEL-N-1-53772-00001				0.32	0.20	0.46	57				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-1-53576-00001	3	3	Air	0.26	0.29	0.54	44	N	NC				
	with grilles-between-the-glass	PEL-N-1-53767-00001				0.27	0.26	0.48	44	N	NC				
	with integral grilles	PEL-N-1-53774-00001				0.28	0.26	0.48	44		NC				
11/16"	NaturalSun Low-E IG	PEL-N-1-53575-00001	3	3	Air	0.32	0.54	0.63	56						
	with grilles-between-the-glass	PEL-N-1-53766-00001				0.33	0.49	0.56	56						
	with integral grilles	PEL-N-1-53773-00001				0.33	0.49	0.56	56						

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

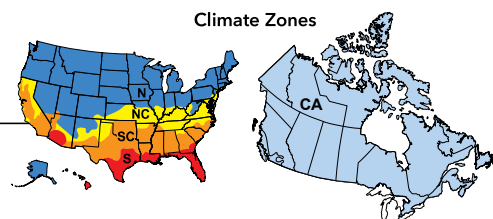
ER = Canadian Energy Rating

(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.

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## Architect Series® Traditional Casement 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.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sup>2</sup>	
											Zone				ER	Zone
Vent Triple-Pane Glazing - Aluminum-Clad Exterior											N	NC	SC	S		CA
1"	Advanced Low-E IG	PEL-N-11-21640-00001	3	3	3	Argon	0.22	0.23	0.42	71	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21906-00001					0.22	0.21	0.38	71	N	NC	SC	S		
	with integral grilles	PEL-N-11-21915-00001					0.22	0.21	0.38	71	N	NC	SC	S		
1"	SunDefense™ Low-E IG	PEL-N-11-21641-00001	3	3	3	Argon	0.22	0.17	0.39	71	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21907-00001					0.22	0.16	0.35	71	N	NC	SC	S		
	with integral grilles	PEL-N-11-21916-00001					0.22	0.16	0.35	71	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-11-21639-00001	3	3	3	Argon	0.22	0.39	0.47	70	N	NC			35	CA
	with grilles-between-the-glass	PEL-N-11-21905-00001					0.22	0.35	0.43	70	N	NC				
	with integral grilles	PEL-N-11-21914-00001					0.22	0.35	0.43	70	N	NC				
High Altitude Glazing																
1"	Advanced Low-E IG	PEL-N-11-21643-00001	3	3	3	Air	0.25	0.23	0.42	66	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21909-00001					0.25	0.22	0.38	66	N	NC	SC	S		
	with integral grilles	PEL-N-11-21918-00001					0.25	0.22	0.38	66	N	NC	SC	S		
1"	SunDefense Low-E IG	PEL-N-11-21644-00001	3	3	3	Air	0.25	0.18	0.39	66	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-11-21910-00001					0.25	0.16	0.35	66	N	NC	SC	S		
	with integral grilles	PEL-N-11-21919-00001					0.25	0.16	0.35	66	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-11-21642-00001	3	3	3	Air	0.25	0.39	0.47	66	N	NC				
	with grilles-between-the-glass	PEL-N-11-21908-00001					0.26	0.35	0.43	66	N	NC				
	with integral grilles	PEL-N-11-21917-00001					0.26	0.35	0.43	66	N	NC				

R-Value = 1/U-Factor

SHGC = Solar Heat Gain Coefficient

VLT % = Visible Light Transmission

CR = Condensation Resistance

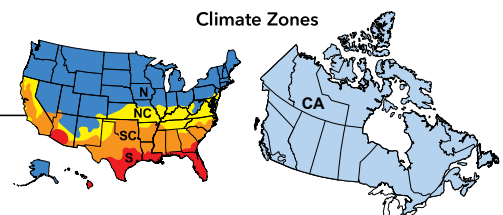
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# Architect Series® Traditional Casement Window

## 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.	Mid.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sup>2</sup>	
											Zone				ER	Zone
Fixed Triple-Pane Glazing - Aluminum-Clad Exterior											N	NC	SC	S		CA
1"	Advanced Low-E IG	PEL-N-1-53646-00001	3	3	3	Argon	0.20	0.27	0.49	71	N	NC			30	CA
	with grilles-between-the-glass	PEL-N-1-53912-00001					0.20	0.24	0.44	71	N	NC	SC	S	29	CA
	with integral grilles	PEL-N-1-53921-00001					0.20	0.24	0.44	71	N	NC	SC	S	29	CA
1"	SunDefense™ Low-E IG	PEL-N-1-53647-00001	3	3	3	Argon	0.20	0.20	0.45	71	N	NC	SC	S	26	CA
	with grilles-between-the-glass	PEL-N-1-53913-00001					0.20	0.18	0.40	71	N	NC	SC	S	25	CA
	with integral grilles	PEL-N-1-53922-00001					0.20	0.18	0.40	71	N	NC	SC	S	25	CA
1"	NaturalSun Low-E IG	PEL-N-1-53645-00001	3	3	3	Argon	0.20	0.45	0.55	71	N				41	CA
	with grilles-between-the-glass	PEL-N-1-53911-00001					0.21	0.40	0.49	71	N	NC			37	CA
	with integral grilles	PEL-N-1-53920-00001					0.21	0.40	0.49	71	N	NC			37	CA
High Altitude Glazing																
1"	Advanced Low-E IG	PEL-N-1-53649-00001	3	3	3	Air	0.24	0.27	0.49	67	N	NC				
	with grilles-between-the-glass	PEL-N-1-53915-00001					0.24	0.24	0.44	67	N	NC	SC	S		
	with integral grilles	PEL-N-1-53924-00001					0.24	0.24	0.44	67	N	NC	SC	S		
1"	SunDefense Low-E IG	PEL-N-1-53650-00001	3	3	3	Air	0.24	0.20	0.45	67	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-1-53916-00001					0.24	0.18	0.40	67	N	NC	SC	S		
	with integral grilles	PEL-N-1-53925-00001					0.24	0.18	0.40	67	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-1-53648-00001	3	3	3	Air	0.24	0.45	0.55	66	N				36	CA
	with grilles-between-the-glass	PEL-N-1-53914-00001					0.25	0.40	0.49	66	N	NC				
	with integral grilles	PEL-N-1-53923-00001					0.24	0.40	0.49	66	N	NC				

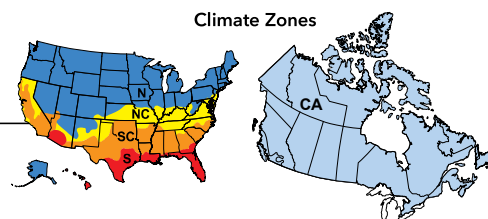
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# Architect Series® Traditional Casement Window

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>	
										Zone				ER	Zone
Vent Dual-Pane Glazing - Wood Exterior										N	NC	SC	S		CA
11/16"	Clear IG	PEL-N-39-18870-00001	3	3	Air	0.42	0.54	0.56	45						
	with integral grilles	PEL-N-39-19068-00001				0.43	0.49	0.51	45						
11/16"	Advanced Low-E IG	PEL-N-39-18865-00002	3	3	Argon	0.27	0.26	0.48	63	N	NC				
	with integral grilles	PEL-N-39-19056-00002				0.27	0.24	0.43	63	N	NC	SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-39-18866-00002	3	3	Argon	0.26	0.19	0.44	63	N	NC	SC	S		
	with integral grilles	PEL-N-39-19057-00002				0.27	0.18	0.40	63	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-39-18869-00001	3	3	Argon	0.23	0.25	0.47	49	N	NC	SC	S		
	with integral grilles	PEL-N-39-19067-00001				0.25	0.23	0.42	49	N	NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-39-18867-00002	3	3	Argon	0.27	0.47	0.54	62	N					
	with integral grilles	PEL-N-39-19058-00002				0.28	0.43	0.49	62	N					
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-39-18907-00001	5	3	Argon	0.28	0.23	0.31	61		NC	SC	S		
	with integral grilles	PEL-N-39-19143-00001				0.29	0.21	0.28	61		NC	SC	S		
11/16"	Gray Advanced Low-E IG	PEL-N-39-18908-00001	5	3	Argon	0.28	0.21	0.27	61		NC	SC	S		
	with integral grilles	PEL-N-39-19144-00001				0.29	0.19	0.24	61		NC	SC	S		
11/16"	Green Advanced Low-E IG	PEL-N-39-18909-00001	5	3	Argon	0.28	0.26	0.42	61		NC				
	with integral grilles	PEL-N-39-19145-00001				0.29	0.24	0.38	61		NC	SC	S		
High Altitude Glazing															
11/16"	Advanced Low-E IG	PEL-N-39-18871-00001	3	3	Air	0.30	0.26	0.48	58		NC				
	with integral grilles	PEL-N-39-19069-00001				0.31	0.24	0.43	58				S		
11/16"	SunDefense Low-E IG	PEL-N-39-18872-00001	3	3	Air	0.30	0.20	0.44	58		NC	SC	S		
	with integral grilles	PEL-N-39-19070-00001				0.31	0.18	0.40	58				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-39-18874-00001	3	3	Air	0.26	0.25	0.47	45	N	NC	SC	S		
	with integral grilles	PEL-N-39-19072-00001				0.28	0.23	0.42	45		NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-39-18873-00001	3	3	Air	0.31	0.47	0.54	57						
	with integral grilles	PEL-N-39-19071-00001				0.32	0.43	0.49	57						

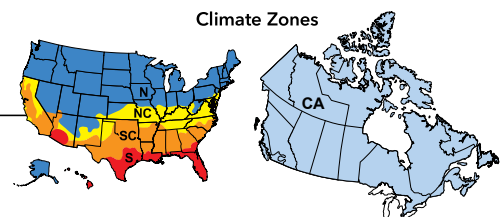
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# Architect Series® Traditional Casement Window

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sub>2</sub>	
										Zone				ER	Zone
Fixed Dual-Pane Glazing - Wood Exterior										N	NC	SC	S	CA	
11/16"	Clear IG	PEL-N-41-37285-00001	3	3	Air	0.44	0.62	0.65	45						
	with integral grilles	PEL-N-41-37483-00001				0.45	0.56	0.58	45						
11/16"	Advanced Low-E IG	PEL-N-41-37280-00002	3	3	Argon	0.26	0.30	0.56	62	N	NC				
	with integral grilles	PEL-N-41-37471-00002				0.27	0.27	0.50	62	N	NC				
11/16"	SunDefense™ Low-E IG	PEL-N-41-37281-00002	3	3	Argon	0.26	0.22	0.51	62	N	NC	SC	S		
	with integral grilles	PEL-N-41-37472-00002				0.26	0.20	0.46	62	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-41-37284-00001	3	3	Argon	0.22	0.29	0.54	49	N	NC				
	with integral grilles	PEL-N-41-37482-00001				0.25	0.26	0.49	49	N	NC				
11/16"	NaturalSun Low-E IG	PEL-N-41-37282-00002	3	3	Argon	0.27	0.55	0.63	61	N				38	CA
	with integral grilles	PEL-N-41-37473-00002				0.28	0.49	0.56	61	N					
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-41-37322-00001	5	3	Argon	0.27	0.26	0.36	60	N	NC				
	with integral grilles	PEL-N-41-37558-00001				0.28	0.24	0.32	60		NC	SC	S		
11/16"	Gray Advanced Low-E IG	PEL-N-41-37323-00001	5	3	Argon	0.27	0.24	0.31	60	N	NC	SC	S		
	with integral grilles	PEL-N-41-37559-00001				0.28	0.22	0.28	60		NC	SC	S		
11/16"	Green Advanced Low-E IG	PEL-N-41-37324-00001	5	3	Argon	0.27	0.30	0.49	60	N	NC				
	with integral grilles	PEL-N-41-37560-00001				0.28	0.27	0.44	60		NC				
High Altitude Glazing															
11/16"	Advanced Low-E IG	PEL-N-41-37286-00001	3	3	Air	0.30	0.30	0.56	57		NC				
	with integral grilles	PEL-N-41-37484-00001				0.31	0.27	0.50	57						
11/16"	SunDefense Low-E IG	PEL-N-41-37287-00001	3	3	Air	0.30	0.22	0.51	58		NC	SC	S		
	with integral grilles	PEL-N-41-37485-00001				0.31	0.20	0.46	58				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-41-37289-00001	3	3	Air	0.25	0.29	0.54	44	N	NC				
	with integral grilles	PEL-N-41-37487-00001				0.28	0.26	0.49	44		NC				
11/16"	NaturalSun Low-E IG	PEL-N-41-37288-00001	3	3	Air	0.31	0.54	0.63	57						
	with integral grilles	PEL-N-41-37486-00001				0.32	0.49	0.56	57						

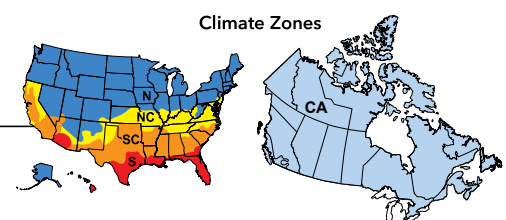
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# Architect Series® Traditional Casement Window

## 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.	Mid	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sup>2</sup>	
											Zone				ER	Zone
Vent Triple-Pane Glazing - Wood Exterior											N	NC	SC	S		CA
1"	Advanced Low-E IG	PEL-N-39-18944-00001	3	3	3	Argon	0.21	0.23	0.42	71	N	NC	SC	S	27	CA
	with grilles-between-the-glass	PEL-N-39-19210-00001					0.21	0.21	0.38	71	N	NC	SC	S	26	CA
	with integral grilles	PEL-N-39-19219-00001					0.21	0.21	0.38	71	N	NC	SC	S	26	CA
1"	SunDefense™ Low-E IG	PEL-N-39-18945-00001	3	3	3	Argon	0.20	0.17	0.39	72	N	NC	SC	S	25	CA
	with grilles-between-the-glass	PEL-N-39-19211-00001					0.21	0.16	0.35	72	N	NC	SC	S		
	with integral grilles	PEL-N-39-19220-00001					0.21	0.16	0.35	72	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-39-18943-00001	3	3	3	Argon	0.21	0.39	0.48	71	N	NC			36	CA
	with grilles-between-the-glass	PEL-N-39-19209-00001					0.21	0.35	0.43	71	N	NC			34	CA
	with integral grilles	PEL-N-39-19218-00001					0.21	0.35	0.43	71	N	NC			34	CA
High Altitude Glazing																
1"	Advanced Low-E IG	PEL-N-39-18947-00001	3	3	3	Air	0.24	0.24	0.42	67	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-39-19213-00001					0.24	0.22	0.38	67	N	NC	SC	S		
	with integral grilles	PEL-N-39-19222-00001					0.24	0.22	0.38	67	N	NC	SC	S		
1"	SunDefense Low-E IG	PEL-N-39-18948-00001	3	3	3	Air	0.24	0.18	0.39	67	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-39-19214-00001					0.24	0.16	0.35	67	N	NC	SC	S		
	with integral grilles	PEL-N-39-19223-00001					0.24	0.16	0.35	67	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-39-18946-00001	3	3	3	Air	0.24	0.39	0.48	67	N	NC				
	with grilles-between-the-glass	PEL-N-39-19212-00001					0.24	0.35	0.43	67	N	NC				
	with integral grilles	PEL-N-39-19221-00001					0.24	0.35	0.43	67	N	NC				

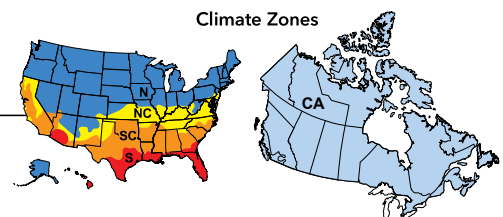
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# Architect Series® Traditional Casement Window

## 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.	Mid	Int.		U-Factor	SHGC	VLT %	CR	U. S.				Canada <sup>2</sup>	
											Zone				ER	Zone
Fixed Triple-Pane Glazing - Wood Exterior											N	NC	SC	S		CA
1"	Advanced Low-E IG	PEL-N-41-37359-00001	3	3	3	Argon	0.19	0.27	0.49	72	N	NC			32	CA
	with grilles-between-the-glass	PEL-N-41-37625-00001					0.20	0.24	0.44	72	N	NC	SC	S	29	CA
	with integral grilles	PEL-N-41-37634-00001					0.20	0.24	0.44	72	N	NC	SC	S	29	CA
1"	SunDefense™ Low-E IG	PEL-N-41-37360-00001	3	3	3	Argon	0.19	0.20	0.45	72	N	NC	SC	S	28	CA
	with grilles-between-the-glass	PEL-N-41-37626-00001					0.19	0.18	0.40	72	N	NC	SC	S	27	CA
	with integral grilles	PEL-N-41-37635-00001					0.19	0.18	0.40	72	N	NC	SC	S	27	CA
1"	NaturalSun Low-E IG	PEL-N-41-37358-00001	3	3	3	Argon	0.20	0.45	0.55	71	N				41	CA
	with grilles-between-the-glass	PEL-N-41-37624-00001					0.20	0.40	0.49	71	N	NC			38	CA
	with integral grilles	PEL-N-41-37633-00001					0.20	0.40	0.49	71	N	NC			38	CA
High Altitude Glazing																
1"	Advanced Low-E IG	PEL-N-41-37362-00001	3	3	3	Air	0.23	0.27	0.49	67	N	NC				
	with grilles-between-the-glass	PEL-N-41-37628-00001					0.23	0.24	0.44	67	N	NC	SC	S		
	with integral grilles	PEL-N-41-37637-00001					0.23	0.24	0.44	67	N	NC	SC	S		
1"	SunDefense Low-E IG	PEL-N-41-37363-00001	3	3	3	Air	0.23	0.20	0.45	67	N	NC	SC	S		
	with grilles-between-the-glass	PEL-N-41-37629-00001					0.23	0.18	0.40	67	N	NC	SC	S		
	with integral grilles	PEL-N-41-37638-00001					0.23	0.18	0.40	67	N	NC	SC	S		
1"	NaturalSun Low-E IG	PEL-N-41-37361-00001	3	3	3	Air	0.23	0.45	0.55	67	N				37	CA
	with grilles-between-the-glass	PEL-N-41-37627-00001					0.24	0.40	0.49	67	N	NC				
	with integral grilles	PEL-N-41-37636-00001					0.24	0.40	0.49	67	N	NC				

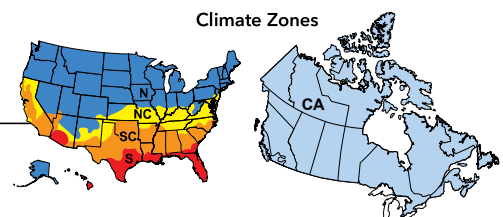
R-Value = 1/U-Factor  
 SHGC = Solar Heat Gain Coefficient  
 VLT % = Visible Light Transmission  
 CR = Condensation Resistance  
 ER = Canadian Energy Rating

(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.

Based on unit size, some products will use 2.5 mm glass that will have equivalent or improved performance from what is shown.

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







## Architect Series® Traditional Casement 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	
11/16"	Clear IG	PEL-N-11-21577-00001	3	8	Air	0.47	0.50	0.55	41							
	with grilles-between-the-glass	PEL-N-11-21775-00001				0.47	0.46	0.50	41							
	with integral grilles	PEL-N-11-21787-00001				0.47	0.46	0.50	41							
11/16"	Advanced Low-E IG	PEL-N-11-21572-00001	3	8	Argon	0.33	0.26	0.47	55							
	with grilles-between-the-glass	PEL-N-11-21770-00001				0.34	0.24	0.42	55				S			
	with integral grilles	PEL-N-11-21782-00001				0.34	0.24	0.42	55				S			
11/16"	SunDefense™ Low-E IG	PEL-N-11-21573-00001	3	8	Argon	0.33	0.20	0.43	55				S			
	with grilles-between-the-glass	PEL-N-11-21771-00001				0.34	0.18	0.39	55				S			
	with integral grilles	PEL-N-11-21783-00001				0.34	0.18	0.39	55				S			
Tinted Laminated Impact-Resistant Glass																
11/16"	Bronze Advanced Low-E IG	PEL-N-11-21574-00001	3	8	Argon	0.33	0.22	0.10	55				S			
	with grilles-between-the-glass	PEL-N-11-21772-00001				0.34	0.21	0.09	55				S			
	with integral grilles	PEL-N-11-21784-00001				0.34	0.21	0.09	55				S			
11/16"	Gray Advanced Low-E IG	PEL-N-11-21575-00001	3	8	Argon	0.33	0.22	0.06	55				S			
	with grilles-between-the-glass	PEL-N-11-21773-00001				0.34	0.20	0.05	55				S			
	with integral grilles	PEL-N-11-21785-00001				0.34	0.20	0.05	55				S			
11/16"	11/16" Green Advanced Low-E IG	PEL-N-11-21576-00001	3	8	Argon	0.33	0.24	0.26	55				S			
	with grilles-between-the-glass	PEL-N-11-21774-00001				0.34	0.22	0.24	55				S			
	with integral grilles	PEL-N-11-21786-00001				0.34	0.22	0.24	55				S			

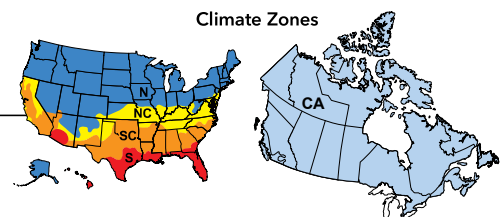
R-Value = 1/U-Factor  
SHGC = Solar Heat Gain Coefficient  
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CR = Condensation Resistance  
ER = Canadian Energy Rating

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# Architect Series® Traditional Casement Window

## Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values <sub>1</sub>				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown						
			Ext.	Int.		U-Factor	SHGC	VLT %	CR	U. S.			Canada <sub>2</sub>			
										Zone			ER	Zone		
Fixed - Laminated Impact-Resistant Glass											N	NC	SC	S		CA
11/16"	Clear IG	PEL-N-1-53583-00001	3	8	Air	0.48	0.58	0.64	41							
	with grilles-between-the-glass	PEL-N-1-53781-00001				0.49	0.52	0.57	41							
	with integral grilles	PEL-N-1-53793-00001				0.49	0.52	0.57	41							
11/16"	Advanced Low-E IG	PEL-N-1-53578-00001	3	8	Argon	0.33	0.30	0.55	55							
	with grilles-between-the-glass	PEL-N-1-53776-00001				0.34	0.27	0.49	55							
	with integral grilles	PEL-N-1-53788-00001				0.34	0.27	0.49	55							
11/16"	SunDefense™ Low-E IG	PEL-N-1-53579-00001	3	8	Argon	0.32	0.23	0.50	55				S			
	with grilles-between-the-glass	PEL-N-1-53777-00001				0.34	0.20	0.45	55				S			
	with integral grilles	PEL-N-1-53789-00001				0.34	0.20	0.45	55				S			
Tinted Laminated Impact-Resistant Glass																
11/16"	Bronze Advanced Low-E IG	PEL-N-1-53580-00001	3	8	Argon	0.33	0.26	0.11	55							
	with grilles-between-the-glass	PEL-N-1-53778-00001				0.34	0.23	0.10	55				S			
	with integral grilles	PEL-N-1-53790-00001				0.34	0.23	0.10	55				S			
11/16"	Gray Advanced Low-E IG	PEL-N-1-53581-00001	3	8	Argon	0.33	0.25	0.07	55				S			
	with grilles-between-the-glass	PEL-N-1-53779-00001				0.34	0.23	0.06	55				S			
	with integral grilles	PEL-N-1-53791-00001				0.34	0.23	0.06	55				S			
11/16"	Green Advanced Low-E IG	PEL-N-1-53582-00001	3	8	Argon	0.33	0.27	0.30	55							
	with grilles-between-the-glass	PEL-N-1-53780-00001				0.34	0.25	0.27	55				S			
	with integral grilles	PEL-N-1-53792-00001				0.34	0.25	0.27	55				S			

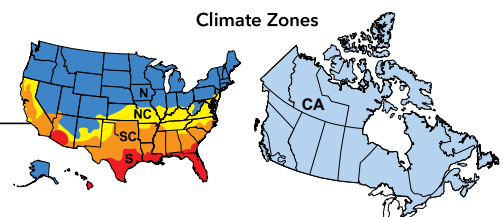
R-Value = 1/U-Factor  
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 VLT % = Visible Light Transmission  
 CR = Condensation Resistance  
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(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

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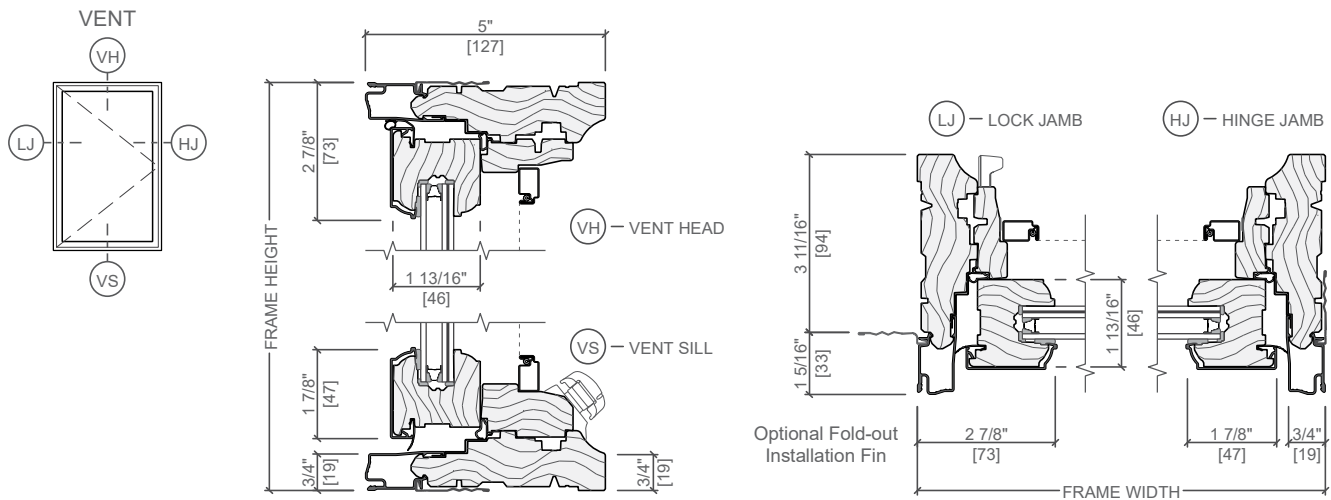




## Architect Series® Traditional Casement Window

Products with Impact-Resistant Glass

Product	Design Pressure Large Missile Rating D		Hallmark Certified	Florida Product Approval System
	Minimum	Maximum		
Vent				
11/16" Insulated Glass PVB	60	75	411-H-1339	FL10015
1" Insulated Glass SGP	75	+75 / -85	411-H-1339	FL10015
Large Fixed				
11/16" Insulated Glass PVB	60	75	411-H-1339	FL10022
1" Insulated Glass SGP	75	+75 / -85	411-H-1339	FL10022



(-) = Not Available

All sizes and glass types are tested for air/water/structural and impact-resistance, and are certified for wind zone 4, large missile rating D.

Florida Product Approval System number not needed if Miami-Dade County approved.

Consult your local building code to ensure products meet all requirements.

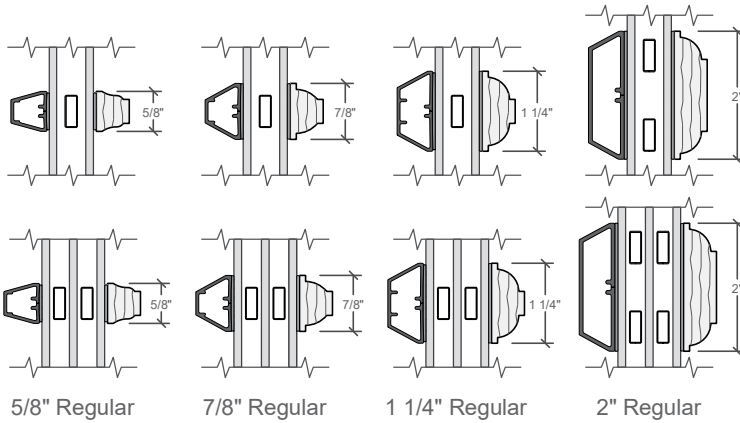


## Architect Series® Traditional Casement Window

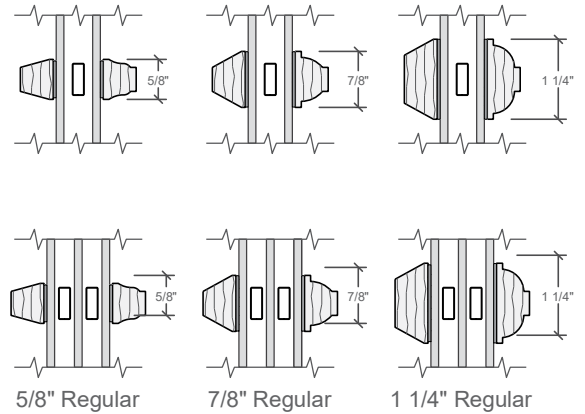
### Grille Profiles

#### Traditional Style Collection - Integral Light Technology®

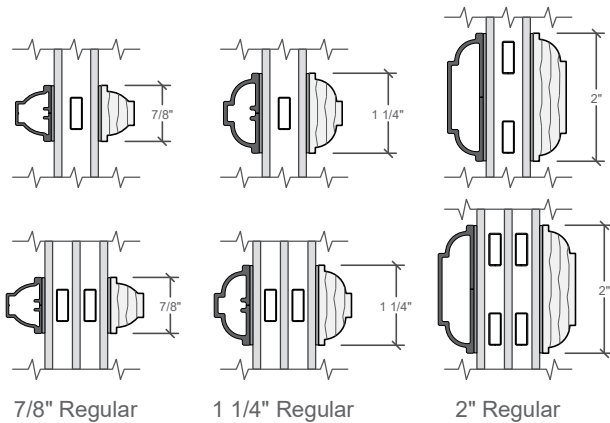
##### Putty Glaze and Ogee Grilles Clad Exterior - Wood Interior



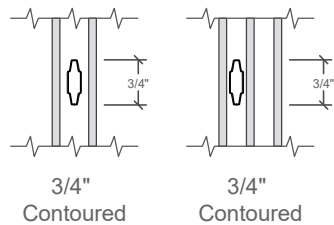
##### Putty Glaze and Ogee Grilles Wood Exterior - Wood Interior



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



##### Grilles-Between-the-Glass



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

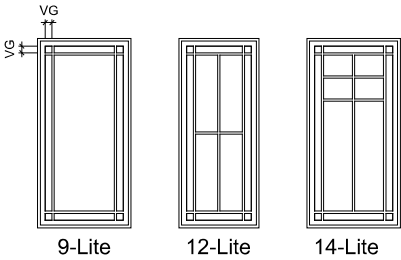
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



Grille Patterns

Integral Light Technology® Grilles

Prairie Lite Patterns



Size range availability is for 3/4", 7/8" and 1-1/4" grille width.  
Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

**9-Lite**

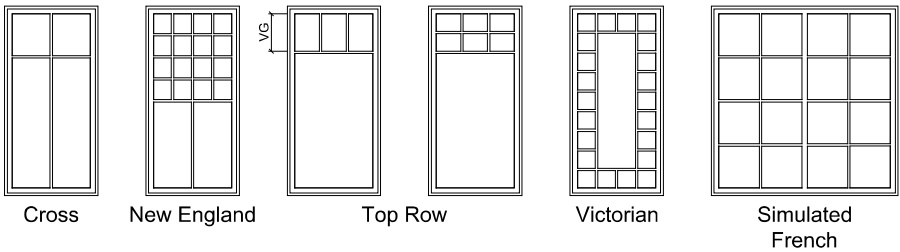
- Available in all standard and special sizes.

**12-Lite**

- Available in units  $\geq 1'9"$  and  $\leq 2'11"$  in width, and  $\geq 1'9"$  in height.

**14-Lite**

- Available in units  $\geq 1'9"$  in width and  $\geq 2'11"$  in height.



**Cross**

- Standard visible glass to separator bar = one-quarter of total visible glass height.

**New England**

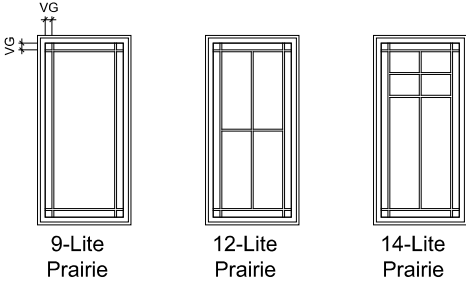
- Standard visible glass to separator bar = half of total visible glass height.

**Top Row**

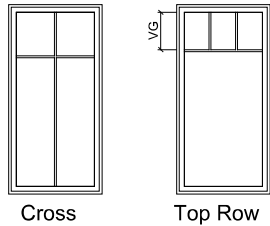
- Standard visible glass to separator bar = 14" or half of total visible glass height, whichever is smaller.

Grilles-Between-the-Glass

Prairie Lite Patterns



Other Available Patterns



**Cross**

- Available for units with frame heights  $\geq 35"$ . Standard visible glass to separator bar = 1/4 of total visible glass height.

**Top Row**

- Standard visible glass to separator bar = 14" for frame heights  $>35"$ . Standard visible glass to separator bar = 21" for 35" frame heights and optional for 41" frame height. Separator bar at 12" or 16" optional for frame heights  $>41"$ .

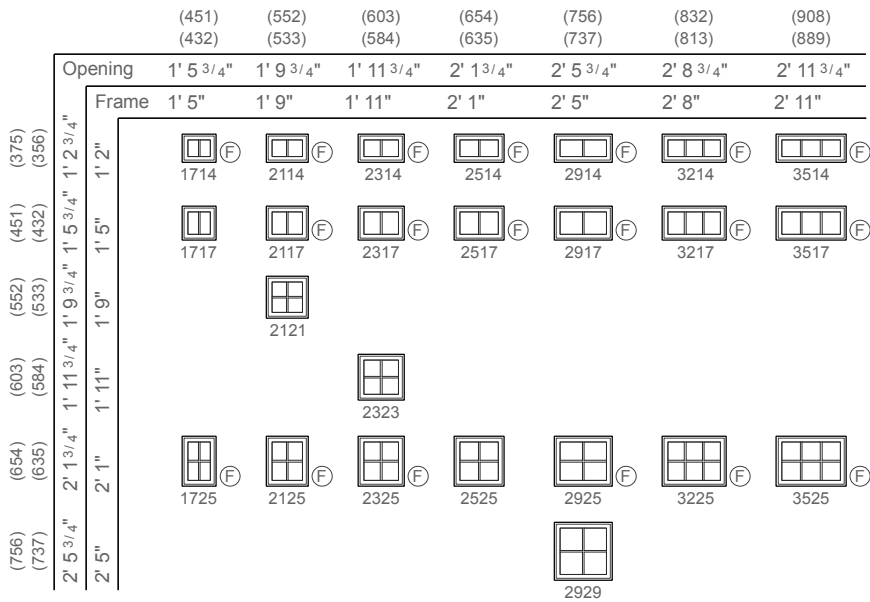
For traditional patterns, see size tables.

VG = Visible Glass  
Lite dimensions noted can vary.  
Custom configurations are also available, for details contact your local Pella sales representative.



Architect Series® Traditional Casement Window

Size Tables



Opening Dimensions

**Clad Exterior Units:** Dimensions shown in 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	
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.

Not to scale.

Ⓢ = Fixed Unit Only

Traditional grille patterns shown. Refer to Clad/Wood Overview Section for additional patterns and profiles.

Venting transoms are available as casements or awnings.



# Architect Series® Traditional Casement Window

## Size Tables

### Vent and Fixed Units

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"
(832) (813)							
(908) (889)							
(1 060) (1 041)							
(1 213) (1 194)							
(1 365) (1 346)							
(1 518) (1 499)							
(1 670) (1 651)							
(1 822) (1 803)							
(1 873) (1 854)							

#### 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 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E3 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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

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

Side pivot hardware reduces Performance class to 'R'.

### Opening Dimensions

**Clad Exterior Units:** Dimensions shown in 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	
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.

Not to scale.

F = Fixed Unit Only

T = Tempered glass due to aspect ratio.



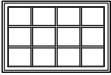
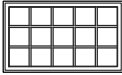


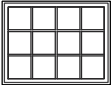
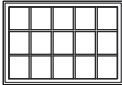


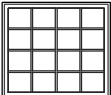
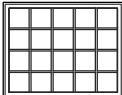
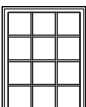
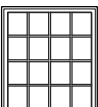
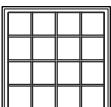
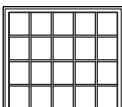
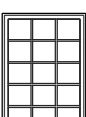
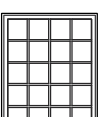
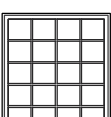
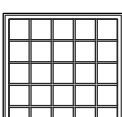
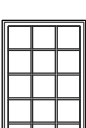
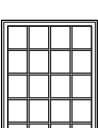
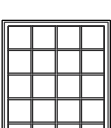
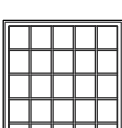
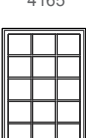
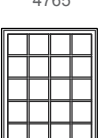
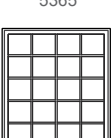
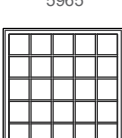
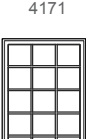
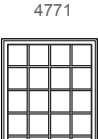
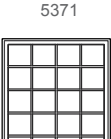
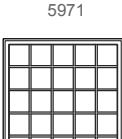
Traditional grille patterns shown. Refer to Clad/Wood Overview Section for additional patterns and profiles.



# Architect Series® Traditional Casement Window

## Size Tables

### Fixed Units

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	3' 5"	3' 11"	4' 5"	4' 11"
(908) (889)	 4135	 4735	 5335	 5935
(1 060) (1 041)	 4141	 4741	 5341	 5941
(1 213) (1 194)	 4147	 4747	 5347	 5947
(1 365) (1 346)	 4153	 4753	 5353	 5953
(1 518) (1 499)	 4159	 4759	 5359	 5959
(1 670) (1 651)	 4165	 4765	 5365	 5965
(1 822) (1 803)	 4171	 4771	 5371	 5971
(1 873) (1 854)	 4173	 4773	 5373	 5973

### Opening Dimensions

**Clad Exterior Units:** Dimensions shown in 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
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 Clad/Wood Overview Section for additional patterns and profiles.



# Architect Series® Traditional Casement Window

## Special Sizes and Dimensions

### Special Size Frame Dimensions\*

	Minimum	Maximum
Vent	1'1-3/4" W x 1'1-3/4" H (13.75" x 13.75") (349 x 349)	3'5" W x 8'0" H (41" x 96") (1041 x 2 438)
Fixed	10" W x 10" H (254 x 254)	12'0" W x 12'0" H (144" x 144") (3 658 x 3 658)

\* Available within size range shown. Standard Performance Option only.

Keep frame dimensions to the nearest 1/8" increment. Frame width cannot exceed frame height on special size vent units.

If Call Height < 32, and Call Width < 32 then Call Width must equal Call Height for standard sizes.

Vent units Max frame area cannot be greater than 19.5 sq ft.

Fixed units Max frame area cannot be greater than 66.25 Sq ft, Max Glass Area cannot be greater than 60 Sq ft.

Contact your Pella representative for the availability of custom sizes smaller or larger than the parameters.

### Miscellaneous Formulas

Visible Glass	Width = Frame - 5-3/4" Height = Frame - 5-3/4"
Actual Glass	Width = Frame - 4-3/8" Height = Frame - 4-3/8"

### Clear Opening Height

Frame Height - 4-1/8"

### Clear Opening Width

Hinge	Frame Width	Formula
Standard	FW ≥ 29" and ≤ 30-1/2"	FW - 9"
Standard	FW > 30-1/2"	FW - 9-3/4"
Side Pivot	FW ≥ 25" and ≤ 35"	FW - 4-3/8"

For units with FW > 35" reference Restricted Opening chart.

### Side Pivot Clear Opening Formulas

Hinge	Frame Width	Frame Height	Clear Opening Width Formula	
			CLAD EXTERIOR	WOOD EXTERIOR
STD	17" to ≤ 29"	17" to ≤ 73"	Unit Width - 4.375	Unit Width - 4.375
	> 29" to ≤ 35"	29" to < 47"	Unit Width - 4.375	Unit Width - 4.375
Heavy Duty*	13.75" to < 17"	13.75" to ≤ 96"	(Unit Width x 0.8) - 2.95	(Unit Width x 0.892) - 4.219
	17" to < 19"	13.75" to ≤ 96"	(Unit Width x 0.9) - 4.65	(Unit Width x 0.9) - 4.35
	19" to < 25"	13.75" to ≤ 96"	(Unit Width x 0.883) - 4.433	(Unit Width x 0.883) - 4.133
	25" to 29"	13.75" to ≤ 96"	Unit Width - 5.55	Unit Width - 5.55
	> 29" to ≤ 35"	13.75" to ≤ 96"	(Unit Width x 0.9) - 4.15	(Unit Width x 0.917) - 4.533

Clear opening height = unit height - 4.125"

\* All units with Impact glass or standard IG glass weighing 56 lbs. or more require heavy duty hinges.

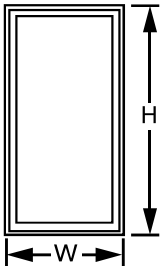
**NOTE:** Performance Class and Grade for a Casement with additional options and Specialty windows may not be the same as Standard and Special size units. Please contact your local Pella representative for complete information.

### Restricted Opening

Frame Width	Approximate Sash Opening Angle
>35	28 degrees
36	26 degrees
37	25 degrees
38	24 degrees
39	23 degrees
40	22 degrees
41	21 degrees

Sash opening will be limited to the angle shown.

Units over 35 inches wide do NOT meet Egress.

Rectangle		Minimum		Maximum		Restrictions	
	Fixed						
	W		10"		144"	Maximum Glass weight is 400 Pounds	
	H		10"		144"	Maximum frame size is 66.25 ft²	
	Vent w/Roto Operator (See standard product for Clear Opening formulas)						
	W		17"		35"		
	H		17"		73"		
	Vent - w/ Roto Operator w/ Side Pivot						
	W		13-3/4"		35"	Maximum frame size is 19.5 ft²	
	H		13-3/4"		96"		
	Vent - w/ Roto Operator w/Side Pivot Restricted Opening						
	W		35"		41"	Units will NOT meet egress requirements. Applies to all vent units with Width (W) > 35"	
H		35"		96"			

**Glass Weight Formula: Actual Glass Width (W) x Actual Glass Height (H) x Actual Glass Thickness ÷ 11**

Glazing weight in pounds, all Glass Width (W), Height (H) and Thickness are in inches.



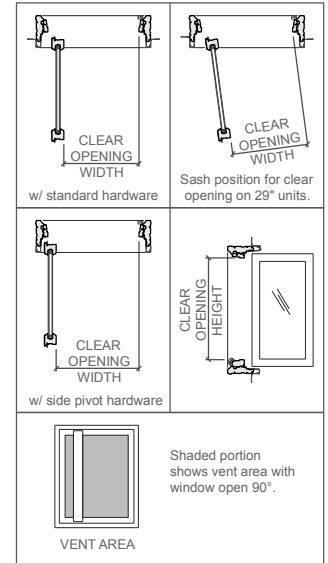


# Architect Series® Traditional Casement Window

## Design Data

### Vent and Fixed, Wood and Aluminum-Clad Exteriors

Unit	Egress		Clear Opening				Visible Glass Ft²	Standard Glass Thickness (mm)			Performance Class & Grade <sup>1</sup>	
	Without Rolscreen	With Rolscreen	Width (Inches)	Height (Inches)	Ft²	Vent Area Ft²		Dual-Pane Glazing		Triple-Pane Glazing Annealed or Tempered	Clad	Wood
								Annealed	Tempered			
1732			7-1/4	27-7/8	1.4	2.0	2.1	2.5	3	3	CW50	LC50
1735			7-1/4	30-7/8	1.6	2.3	2.3	2.5	3	3	CW50	LC50
1741			7-1/4	36-7/8	1.9	2.8	2.8	2.5	3	3	CW50	LC50
1747			7-1/4	42-7/8	2.2	3.2	3.2	2.5	3	3	CW50	LC50
1753			7-1/4	48-7/8	2.5	3.7	3.7	2.5	3	3	CW50	LC50
1759			7-1/4	54-7/8	2.8	4.2	4.2	2.5	3	3	CW50	LC50
1765			7-1/4	60-7/8	3.1	4.7	4.6	2.5	3	3	CW50	LC50
1771T			7-1/4	66-7/8	3.4	5.2	5.1	—	3	3	CW50	LC50
1773T			7-1/4	68-7/8	3.5	5.3	5.3	—	3	3	CW50	LC50
2132			11-1/4	27-7/8	2.2	2.7	2.8	2.5	3	3	CW50	LC50
2135			11-1/4	30-7/8	2.4	3.1	3.1	2.5	3	3	CW50	LC50
2141			11-1/4	36-7/8	2.9	3.7	3.7	2.5	3	3	CW50	LC50
2147			11-1/4	42-7/8	3.3	4.4	4.4	2.5	3	3	CW50	LC50
2153			11-1/4	48-7/8	3.8	5.0	5.0	2.5	3	3	CW50	LC50
2159			11-1/4	54-7/8	4.3	5.7	5.6	2.5	3	3	CW50	LC50
2165			11-1/4	60-7/8	4.8	6.3	6.3	2.5	3	3	CW45/CW50	LC45/LC50
2171			11-1/4	66-7/8	5.2	7.0	6.9	2.5	3	3	CW45/CW50	LC45/LC50
2173			11-1/4	68-7/8	5.4	7.2	7.1	2.5	3	3	CW40/CW50	LC40/LC50
2332			13-1/4	27-7/8	2.6	3.1	3.1	2.5	3	3	CW50	LC50
2335			13-1/4	30-7/8	2.8	3.4	3.5	2.5	3	3	CW50	LC50
2341			13-1/4	36-7/8	3.4	4.2	4.2	2.5	3	3	CW50	LC50
2347			13-1/4	42-7/8	3.9	4.9	4.9	2.5	3	3	CW50	LC50
2353			13-1/4	48-7/8	4.5	5.6	5.7	2.5	3	3	CW50	LC50
2359			13-1/4	54-7/8	5.0	6.4	6.4	2.5	3	3	CW45/CW50	LC45/LC50
2365			13-1/4	60-7/8	5.6	7.1	7.1	2.5	3	3	CW40/CW50	LC40/LC50
2371			13-1/4	66-7/8	6.2	7.9	7.8	2.5	3	3	CW35/CW50	LC35/LC50
2373			13-1/4	68-7/8	6.3	8.1	8.1	2.5	3	3	CW35/CW50	LC35/LC50
2532			15-1/4	27-7/8	3.0	3.4	3.5	2.5	3	3	CW50	LC50
2535			15-1/4	30-7/8	3.3	3.8	3.9	2.5	3	3	CW50	LC50
2541	E <sub>3</sub>		20-5/8	36-7/8	5.3	4.6	4.7	2.5	3	3	CW50	LC50
2547	E <sub>2</sub>		20-5/8	42-7/8	6.1	5.5	5.5	2.5	3	3	CW50	LC50
2553	E <sub>2</sub>		20-5/8	48-7/8	7.0	6.3	6.3	2.5	3	3	CW50	LC50
2559	E <sub>2</sub>		20-5/8	54-7/8	7.9	7.1	7.1	2.5	3	3	CW45/CW50	LC45/LC50
2565	E <sub>2</sub>		20-5/8	60-7/8	8.7	7.9	7.9	2.5	3	3	CW40/CW50	LC40/LC50
2571	E <sub>2</sub>		20-5/8	66-7/8	9.6	8.7	8.7	2.5	3	3	CW35/CW50	LC35/LC50
2573	E <sub>2</sub>		20-5/8	68-7/8	9.9	9.0	9.0	2.5	3	3	CW30/CW50	LC30/LC50
2932			24-5/8	27-7/8	4.8	4.1	4.2	2.5	3	3	CW50	LC50
2935	E <sub>3</sub>		24-5/8	30-7/8	5.3	4.6	4.7	2.5	3	3	CW50	LC50
2941	E <sub>2</sub>	E <sub>2</sub>	24-5/8	36-7/8	6.3	5.6	5.7	2.5	3	3	CW50	LC50
2947	E	E <sub>2</sub>	20	42-7/8	6.0	6.6	6.7	2.5	3	3	CW50	LC50
2953	E	E <sub>2</sub>	20	48-7/8	6.8	7.6	7.6	2.5	3	3	CW50	LC50
2959	E	E <sub>2</sub>	20	54-7/8	7.6	8.6	8.6	2.5	3	3	CW45/CW50	LC45/LC50
2965	E	E <sub>2</sub>	20	60-7/8	8.5	9.5	9.6	2.5	3	3	CW40/CW50	LC40/LC50
2971	E	E <sub>2</sub>	20	66-7/8	9.3	10.5	10.5	3	3	3	CW45/CW50	LC45/LC50
2973	E	E <sub>2</sub>	20	68-7/8	9.6	10.9	10.9	3	3	3	CW45/CW50	LC45/LC50
3232	E <sub>3</sub>		27-5/8	27-7/8	5.3	4.6	4.8	2.5	3	3	CW50	LC50
3235	E <sub>2</sub>		27-5/8	30-7/8	5.9	5.2	5.3	2.5	3	3	CW50	LC50
3241	E <sub>2</sub>	E <sub>1</sub>	27-5/8	36-7/8	7.1	6.3	6.4	2.5	3	3	CW50	LC50
3247	E	E	22-1/4	42-7/8	6.6	7.4	7.5	2.5	3	3	CW50	LC50
3253	E	E	22-1/4	48-7/8	7.6	8.5	8.6	2.5	3	3	CW50	LC50
3259	E	E	22-1/4	54-7/8	8.5	9.6	9.7	2.5	3	3	CW45/CW50	LC45/LC50
3265	E	E	22-1/4	60-7/8	9.4	10.7	10.8	3	3	3	CW50	LC50
3271	E	E	22-1/4	66-7/8	10.3	11.9	11.9	3	3	3	CW45/CW50	LC45/LC50
3273	E	E	22-1/4	68-7/8	10.6	12.2	12.3	3	3	3	CW45/CW50	LC45/LC50
3532F			—	—	—	—	5.3	2.5	3	3	CW50	LC50
3535	E <sub>1</sub>	E <sub>1</sub>	25-1/4	30-7/8	5.4	5.8	5.9	2.5	3	3	CW50	LC50
3541	E	E	25-1/4	36-7/8	6.5	7.0	7.2	2.5	3	3	CW50	LC50
3547	E	E	25-1/4	42-7/8	7.5	8.3	8.4	2.5	3	3	CW50	LC50
3553	E	E	25-1/4	48-7/8	8.6	9.5	9.6	2.5	3	3	CW45/CW50	LC45/LC50
3559	E	E	25-1/4	54-7/8	9.6	10.7	10.8	3	3	3	CW50	LC50
3565	E	E	25-1/4	60-7/8	10.7	12.0	12.0	3	3	3	CW50	LC50
3571	E	E	25-1/4	66-7/8	11.7	13.2	13.3	3	3	3	CW45/CW50	LC45/LC50
3573	E	E	25-1/4	68-7/8	12.1	13.6	13.7	3	3	3	CW45/CW50	LC45/LC50



### 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 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
- E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E3 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

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.

Side pivot hardware reduces Performance class to 'R'.

(-) = Not Applicable

F = Fixed only

T = Tempered required due to aspect ratio.

(1) Maximum performance when glazed with the appropriate glass thickness and using standard hinge hardware. Second value, where shown, requires tempered glass.

To convert area to square meters (m²), multiply square feet by 0.0929.



# Architect Series® Traditional Casement Window

## Design Data

### Fixed, Wood and Aluminum-Clad Exteriors

Unit	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)				Performance Class & Grade <sup>1</sup>	
		Dual-Pane Glazing		Triple-Pane Glazing			
		Annealed	Tempered	Annealed	Tempered	Clad	Wood
4135	7.2	2.5	3	3	3	CW50	LC50
4141	8.6	2.5	3	3	3	CW50	LC50
4147	10.1	3	3	3	3	CW50	LC50
4153	11.6	3	3	3	3	CW50	LC50
4159	13.0	3	3	3	3	CW50	LC50
4165	14.5	3	3	3	3	CW50	LC50
4171	16.0	3	3	3	3	CW45/CW50	LC45/LC50
4173	16.5	3	3	3	3	CW45/CW50	LC45/LC50
4735	8.4	2.5	3	3	3	CW50	LC50
4741	10.1	3	3	3	3	CW50	LC50
4747	11.8	3	3	3	3	CW50	LC50
4753	13.5	3	3	3	3	CW50	LC50
4759	15.3	3	3	3	3	CW50	LC50
4765	17.0	3	3	3	3	CW45/CW50	LC45/LC50
4771	18.7	4	4	4	4	CW50	LC50
4773	19.3	4	4	4	4	CW50	LC50
5335	9.6	2.5	3	3	3	CW45/CW50	LC45/LC50
5341	11.6	3	3	3	3	CW50	LC50
5347	13.5	3	3	3	3	CW50	LC50
5353	15.5	3	4	3	4	CW45/CW50	LC45/LC50
5359	17.5	3	4	3	4	CW40/CW50	LC40/LC50
5365	19.4	4	4	4	4	CW50	LC50
5371	21.4	4	4	4	4	CW50	LC50
5373	22.1	4	4	4	4	CW50	LC50
5935	10.8	3	3	3	3	CW50	LC50
5941	13.0	3	3	3	3	CW50	LC50
5947	15.3	3	3	3	3	CW50	LC50
5953	17.5	3	4	3	4	CW40/CW50	LC40/LC50
5959	19.7	4	4	4	4	CW50	LC50
5965	21.9	4	4	4	4	CW50	LC50
5971	24.1	4	4	4	4	CW45/CW50	LC45/LC50
5973	24.9	4	4	4	4	CW45/CW50	LC45/LC50

### Transoms

Unit	Clear Opening (Inches)			Vent Area Ft <sup>2</sup>	Visible Glass Ft <sup>2</sup>	Standard Glass Thickness (mm)			Performance Class & Grade <sup>1</sup>	
	Width	Height	Ft <sup>2</sup>			Dual-Pane Glazing		Triple- Pane Glazing		
						Annealed	Tempered	Annealed or Tempered	Clad	Wood
1714F	—	—	—	—	0.6	2.5	3	3	CW50	LC50
1717	7 1/4	12 7/8	0.6	0.8	0.9	2.5	3	3	CW50	LC50
1725F	—	—	—	—	1.5	2.5	3	3	CW50	LC50
2114F	—	—	—	—	0.9	2.5	3	3	CW50	LC50
2117F	—	—	—	—	1.2	2.5	3	3	CW50	LC50
2121	11 1/4	16 7/8	1.3	1.5	1.6	2.5	3	3	CW50	LC50
2125F	—	—	—	—	2.0	2.5	3	3	CW50	LC50
2314F	—	—	—	—	1.0	2.5	3	3	CW50	LC50
2317F	—	—	—	—	1.3	2.5	3	3	CW50	LC50
2323	13 1/4	18 7/8	1.7	2.0	2.1	2.5	3	3	CW50	LC50
2325F	—	—	—	—	2.3	2.5	3	3	CW50	LC50
2514F	—	—	—	—	1.1	2.5	3	3	CW50	LC50
2517F	—	—	—	—	1.5	2.5	3	3	CW50	LC50
2525	15 1/4	20 7/8	2.2	2.5	2.6	2.5	3	3	CW50	LC50
2914F	—	—	—	—	1.3	2.5	3	3	CW50	LC50
2917F	—	—	—	—	1.8	2.5	3	3	CW50	LC50
2925F	—	—	—	—	3.1	2.5	3	3	CW50	LC50
2929	20	24 7/8	3.5	3.6	3.8	2.5	3	3	CW50	LC50
3214F	—	—	—	—	1.5	2.5	3	3	CW50	LC50
3217F	—	—	—	—	2.1	2.5	3	3	CW50	LC50
3225F	—	—	—	—	3.5	2.5	3	3	CW50	LC50
3514F	—	—	—	—	1.7	2.5	3	3	CW50	LC50
3517F	—	—	—	—	2.3	2.5	3	3	CW50	LC50
3525F	—	—	—	—	3.9	2.5	3	3	CW50	LC50

(-) = Not Applicable

F = Fixed only

(1) Maximum performance when glazed with the appropriate glass thickness. Second value, where shown, requires tempered glass.

To convert area to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



# Architect Series® Traditional Casement 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 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.
- 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 clear pine.
- Exterior surfaces are clad with aluminum and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is [1-13/16" (46mm) for 11/16"] [2-1/8" (54mm) for 1"] glazing.
- Sash exterior and interior profile is ogee.

### Weatherstripping

- Dual weatherstripping.
  - Flexible santoprene material compressed between frame and sash for positive seal on all four sides.
  - Secondary thermoplastic vulcanizate (TPV) leaf-type weatherstrip between edge of sash and frame on the vertical sides and bottom, and Santoprene® bulb-type weatherstrip on the top.

### Glazing System<sup>1</sup>

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude [with argon] glazing available for 11/16" glazing only.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced Low-E] [SunDefense™ Low-E] [NaturalSun Low-E] [AdvancedComfort Low-E] with argon]] [[bronze] [gray] [green] Advanced Low-E with argon]].
  - or -
- Silicone-glazed 1" triple-pane, dual seal insulating glass [[annealed] [tempered]] [[Advanced Low-E] [SunDefense™] [NaturalSun Low-E] with [argon]].
  - or -
- Impact-Resistant
  - Silicone-glazed 1" dual-seal impact-resistant insulating glass<sup>1</sup> [SGP]. [[tempered] [annealed]] exterior light is [[Advanced Low-E with argon] [clear] [bronze] [gray] [green]]. Laminated clear interior light.
    - or -
  - Silicone-glazed 11/16" dual-seal impact-resistant insulating glass<sup>1</sup> [PVB]. [[tempered] [annealed]] exterior light is [[Advanced Low-E with argon] [clear]]. Laminated [clear] interior light, or [[tempered] [annealed]] exterior light is [[Advanced Low-E with argon] [clear]]. Laminated [[bronze] [gray] [green]] interior light.

### Exterior

- Aluminum-clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
  - Color is [standard] [feature] [custom]<sub>2</sub>.
    - 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] [feature] [custom]<sub>2</sub>.

### Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [paint] [stain]<sub>2</sub>].

### Hardware

- Roto operator assembly
  - Steel worm gear sash operator with hardened gears.
  - Operator base is zinc die cast with painted finish.
  - Operator linkage, hinge slide, and hinge arms are stainless steel.
  - Exposed fasteners are stainless steel.
  - Hardware shall exceed 1,000 hours salt spray exposure per ASTM B 117.
- All vent units are available with left- or right-hand hinging.
- SureLock® System—A single handle locking system operates positive-acting arms that reach out and pull the sash into a locked position: one operating lock installed on units with frame height 29" and less, two unison operating locks installed on units with frame height over 29".
- Style of hardware is [Standard integrated fold-away crank and standard lock handle with [baked enamel] [Champagne] [White] [Brown] [Matte Black]] [Satin Nickel] [Oil-Rubbed Bronze] hardware finish].
  - or -
- [Antiek fold-away crank and Antiek lock handle with [baked enamel] [Champagne] [White] [Brown] [Matte Black]] [Satin Nickel] [Oil-Rubbed Bronze] [distressed bronze] [distressed nickel] hardware finish].

### Optional Products

#### Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid pine. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [factory prefinished [paint] [stain]<sub>2</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] [Cross] [New England] [Victorian] [Simulated French].
  - 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>3</sub>
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass (exterior air-space on triple-pane insulating glass).
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
  - Interior color is [White] [Tan<sub>4</sub>] [Brown<sub>4</sub>] [Putty<sub>4</sub>] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
  - Exterior color<sub>5</sub> is [standard]<sub>2</sub>.

#### Screens

- InView™ Screens
  - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
  - Insect screen frame finish is [baked enamel] [Champagne] [White] [Brown] [Black]].
    - or -
- Rolscreen® Retractable Screen
  - InView™ Screen cloth, self-storing, rolling, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201 mounted behind overhead cover.
  - Cover finish is [factory prefinished paint] [pine veneer wrapped over extruded aluminum with factory prefinished [paint] [stain]<sub>2</sub>].
  - Guides are aluminum extrusion with pine veneer wrapped over extruded aluminum with factory prefinished [paint] [stain]<sub>2</sub>.

#### Hardware

- Optional factory applied limited opening hardware available for vent units in stainless steel; nominal 3" opening.
- 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 F2090-17.

#### Sensors

- Optional factory installed integrated security sensors available in vent units.

(1) Low-E coated insulating glass is argon-filled (except high altitude). All other insulating glass (including high altitude Low-E) is air-filled.

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

(3) Available in clear or Low-E insulating glass with argon, and obscure insulated glass.

(4) 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.

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



# Architect Series® Traditional Casement Window

## Detailed Product Description - Wood 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 clear pine.
- Exterior surfaces are [pine: Factory Primed].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) wall depths, with Pella's standard wood 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 clear pine.
- Exterior surfaces are [Factory Primed] [ready-to-stain].
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is [1-13/16" (46mm) for 11/16"] [2-1/8" (54mm) for 1"] glazing.
- Sash exterior profile is putty glaze, interior profile is ogee.

### Weatherstripping

- Dual weatherstripping.
  - Flexible santoprene material compressed between frame and sash for positive seal on all four sides.
  - Secondary thermoplastic vulcanizate (TPV) leaf-type weatherstrip between edge of sash and frame.

### Glazing System<sup>1</sup>

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude [with argon] glazing available.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced Low-E] [SunDefense™ Low-E] [NaturalSun Low-E] [AdvancedComfort Low-E] with argon]] [[bronze] [gray] [green] Advanced Low-E with argon]].  
– or –
- Silicone-glazed 1" triple-pane insulating glass [[annealed] [tempered]] [[Advanced Low-E] [SunDefense™] [NaturalSun Low-E] with [argon]].

### Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [paint] [stain]]<sub>3</sub>.

### Hardware

- Roto operator assembly
  - Steel worm gear sash operator with hardened gears.
  - Operator base is zinc die cast with painted finish.
  - Operator linkage, hinge slide, and hinge arms are stainless steel.
  - Exposed fasteners are stainless steel.
  - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
- All vent units are available with left- or right-hand hinging.
- SureLock® System—A single handle locking system operates positive-acting arms that reach out and pull the sash into a locked position: one operating lock installed on units with frame height 29" or less, two unison operating locks installed on units with frame height over 29".
- Style of hardware is [Standard integrated fold-away crank and standard lock handle with [baked enamel [Champagne] [White] [Brown] [Matte Black] [Satin Nickel] [Oil-Rubbed Bronze] hardware finish].  
– or –
- [Antiek fold-away crank and Antiek lock handle with [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel] [Oil-Rubbed Bronze] [distressed bronze] [distressed nickel] hardware finish].

### Optional Products

#### Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] ogee profile that are solid pine. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [factory prefinished [paint] [stain]]<sub>3</sub>.
  - Exterior grilles are solid [5/8"] [7/8"] [1-1/4"] putty glaze profile that are pine. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
  - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian] [Simulated French].
  - 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 (exterior air-space on triple-pane insulating glass).
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
  - Interior color is [White] [Tan 4] [Brown 4] [Putty 4] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
  - Exterior color<sup>5</sup> is [standard]<sub>3</sub>.

#### Screens

- InView™ Screens
  - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
  - Insect screen frame finish is [baked enamel [Champagne] [White] [Brown] [Black]].  
– or –
- Rolscreen® Retractable Screen
  - InView™ Screen cloth, self-storing, rolling, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201 mounted behind overhead cover.
  - Cover finish is [factory prefinished paint] [pine veneer wrapped over extruded aluminum with factory prefinished [stain] [paint]]<sub>3</sub>.
  - Guides are aluminum extrusion with [pine veneer wrapped over extruded aluminum with factory prefinished [paint] [stain]]<sub>3</sub>.

#### Hardware

- Optional factory applied limited opening hardware available for vent units in stainless steel; nominal 3" opening.
- 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 F2090-17.

#### Sensors

- Optional factory installed integrated security sensors available in vent units.

(1) Low-E coated insulating glass is argon-filled (except high altitude). All other insulating glass (including high altitude Low-E) is air-filled.

(2) Available in clear or Low-E insulating glass with argon, and obscure insulated glass

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

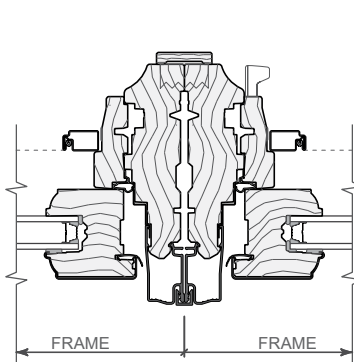
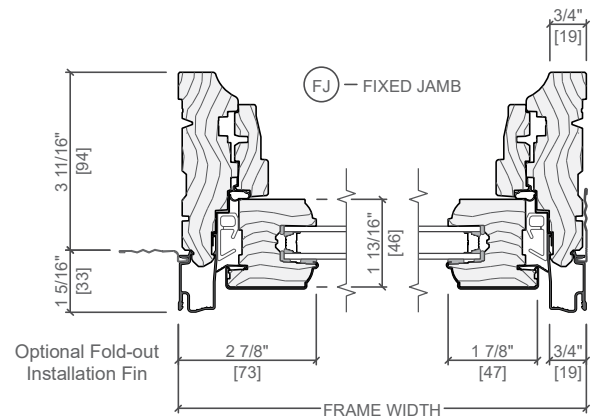
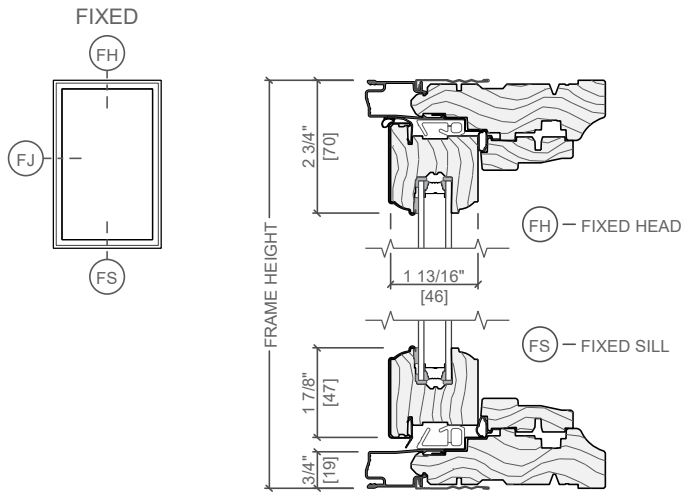
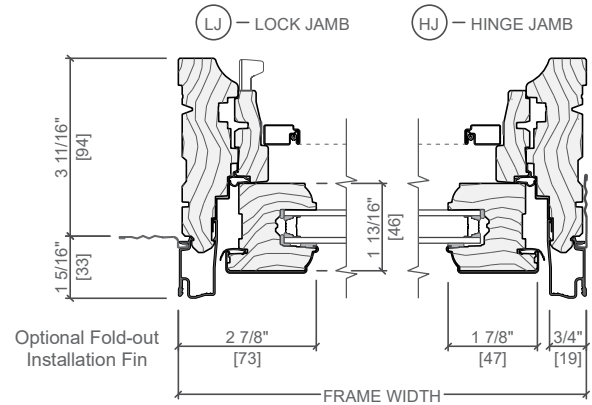
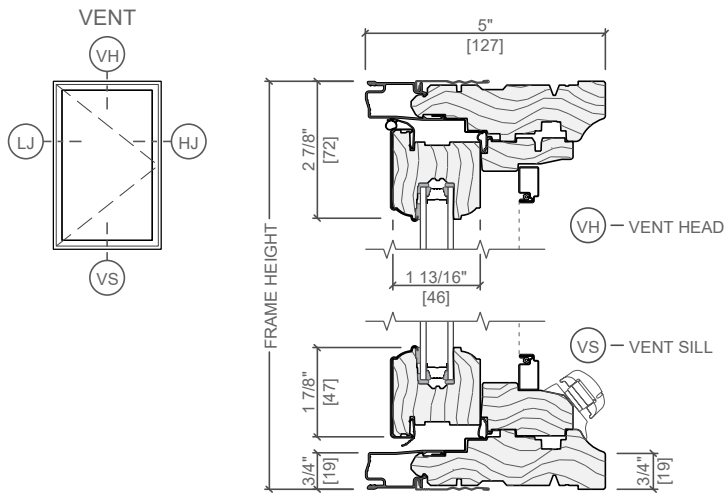
(4) Tan, Brown or Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

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

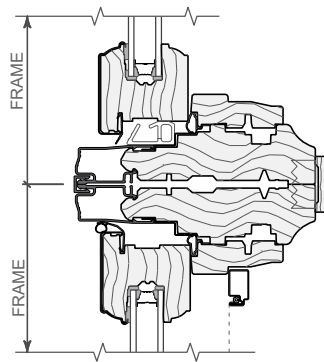


# Architect Series® Traditional Casement Window

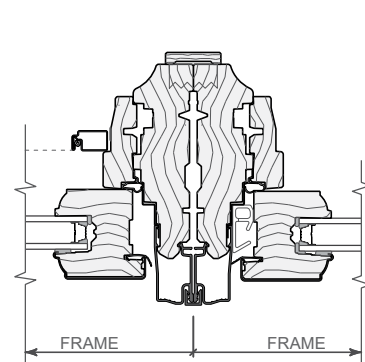
## Unit Sections - Aluminum-Clad Exterior, Ogee Exterior Profile



VERTICAL JOINING MULLION  
VENT / VENT



HORIZONTAL JOINING MULLION  
TRANSOM / VENT



VERTICAL JOINING MULLION  
VENT / FIXED

Scale 3" = 1' 0"

All dimensions are approximate.

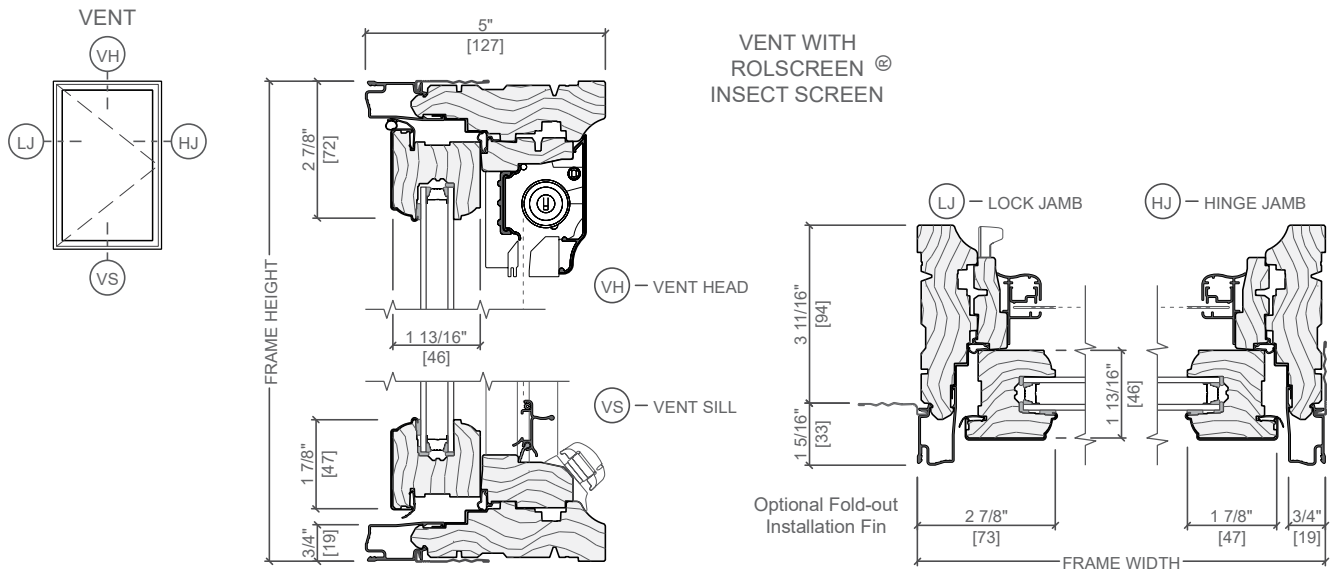
See Combinations Section for mullion limitations and reinforcing requirements.





# Architect Series® Traditional Casement Window

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

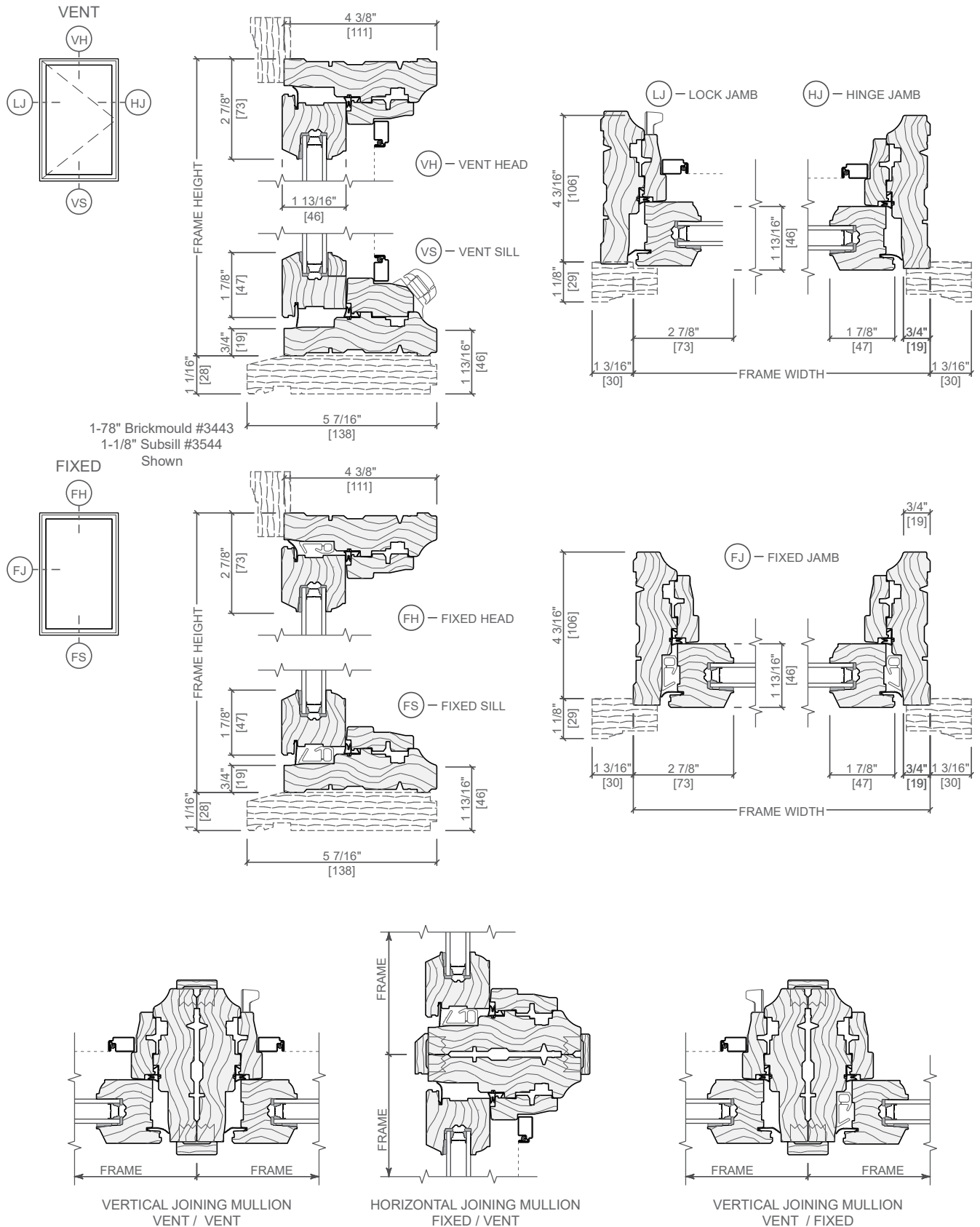


Scale 3" = 1' 0"  
All dimensions are approximate.



# Architect Series® Traditional Casement Window

## Unit Sections - Wood Exterior, Putty Glaze Exterior Profile



Scale 3" = 1' 0"

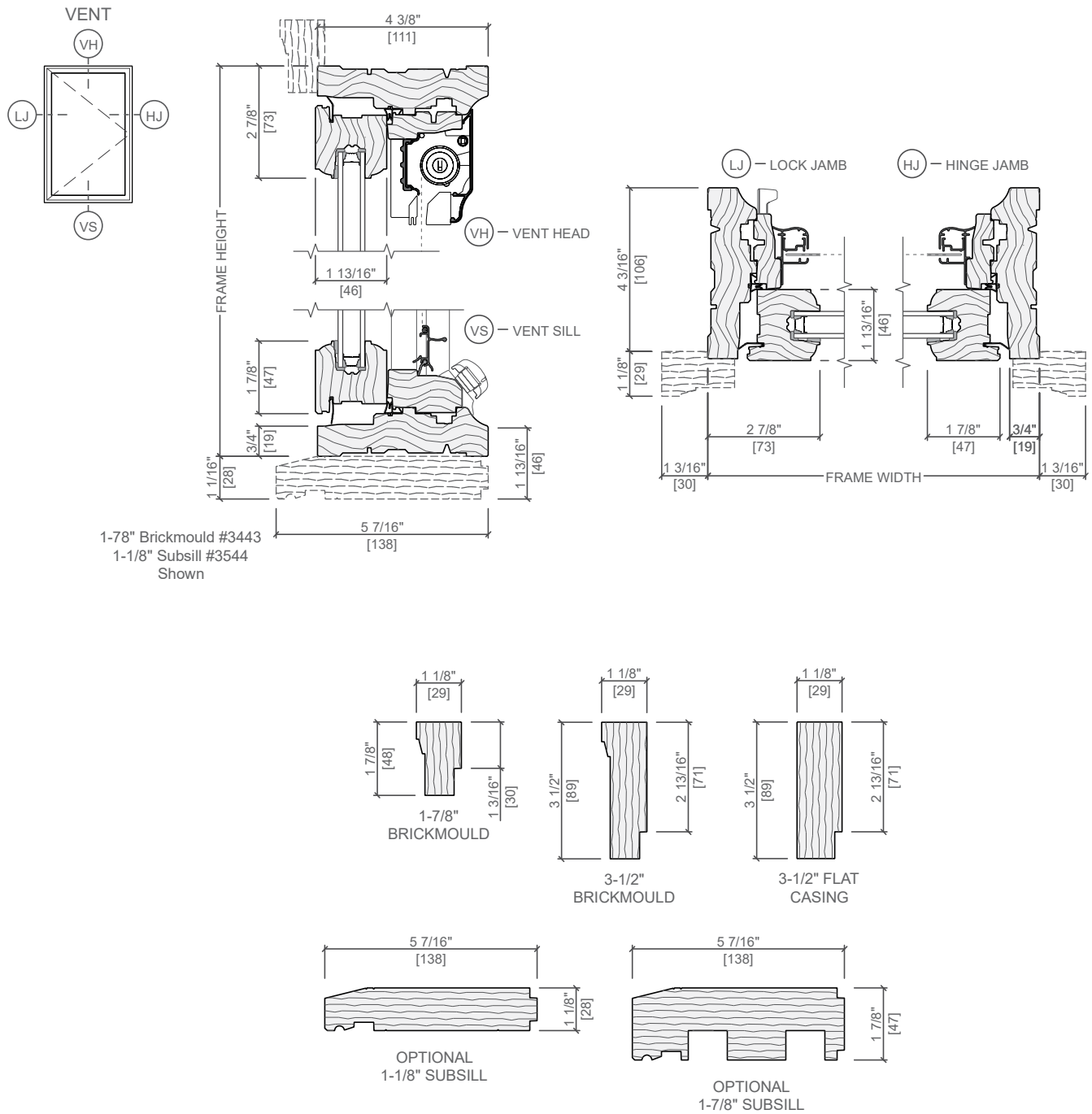
All dimensions are approximate.

See Combinations Section for mullion limitations and reinforcing requirements.



# Architect Series® Traditional Casement Window

## Unit Sections - Wood Exterior, Putty Glaze Exterior Profile

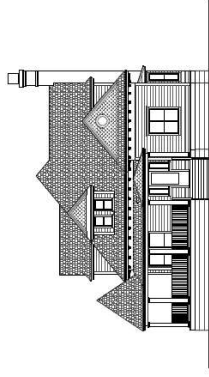


Scale 3" = 1' 0"

All dimensions are approximate.

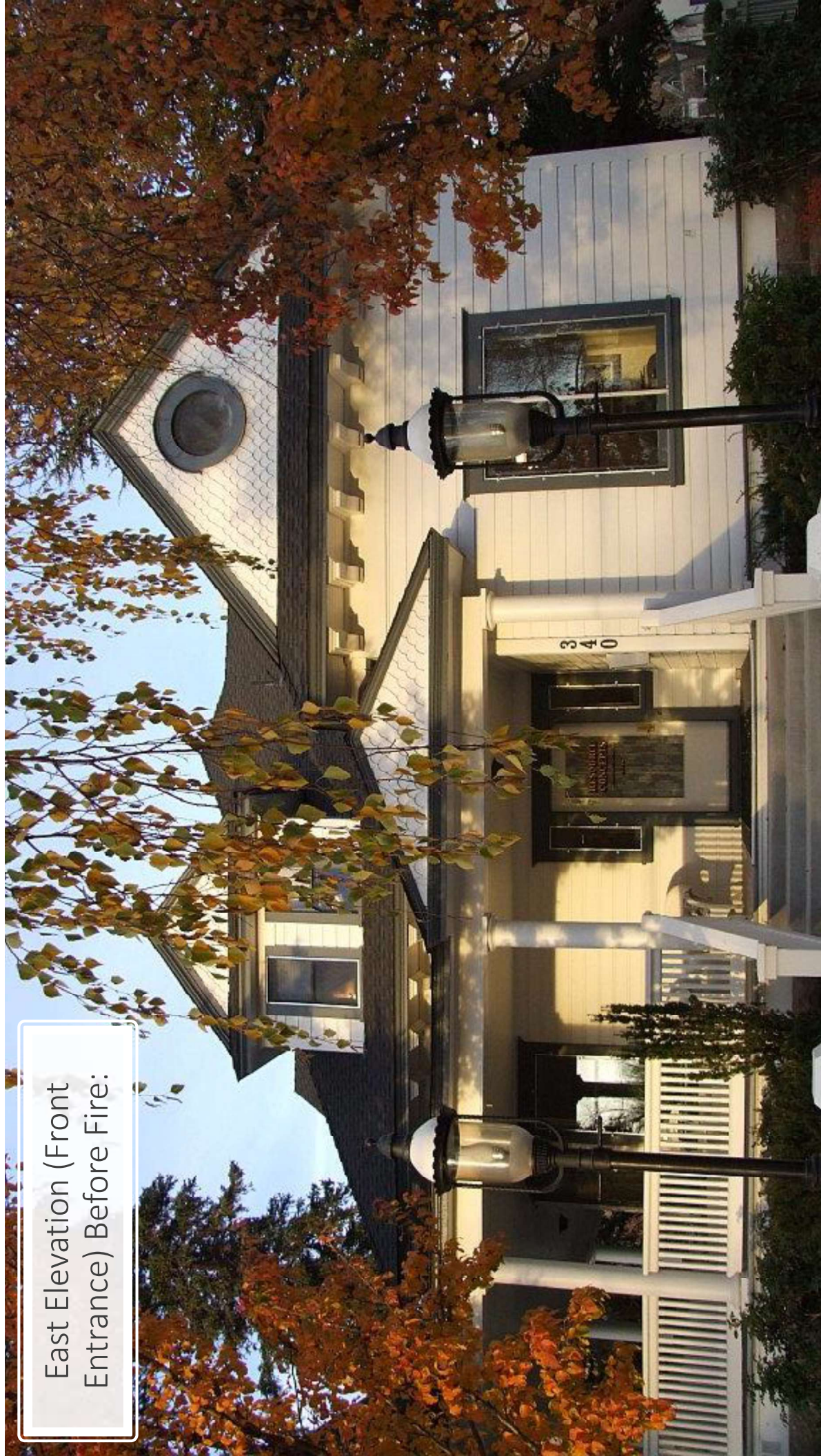


NTMA/RCI Burn Repair



Carson City Planning Division  
Historic Resources Commission Submittal  
Reference Photo  
Supplement

East Elevation (Front  
Entrance) Before Fire:





West Elevation (Rear  
Entrance) Before Fire:





# Items with Specifications:

Exterior Paint to Match Remaining Buildings:  
Sherwin-Williams

Main: Snowbound (SW 7004)

Trim: Grays Harbor (SW 6236)

Shingles: Landmark (Color to Match Previous  
& Remaining Buildings)

See Specification Sheet

Columns: Endura Stone to be Painted

See Specification Sheet

Windows: Pella

See Specification Sheet & Photos



# Items without Specifications:

Stone Footing to Remain

Exterior Doors:

To match previous as close as possible

Corbels, Trim and Siding:

Milled to match previous, see photos

Porch Rail:

See Detail

Scalloping:

Cut, place and paint fire resistant shingles in place of cedar shingles

Fencing:

Original to be Replaced upon Completion of Construction



# New Windows

**Front**



**Side**





# Existing versus New Corbels:

**Front: Existing v. New**

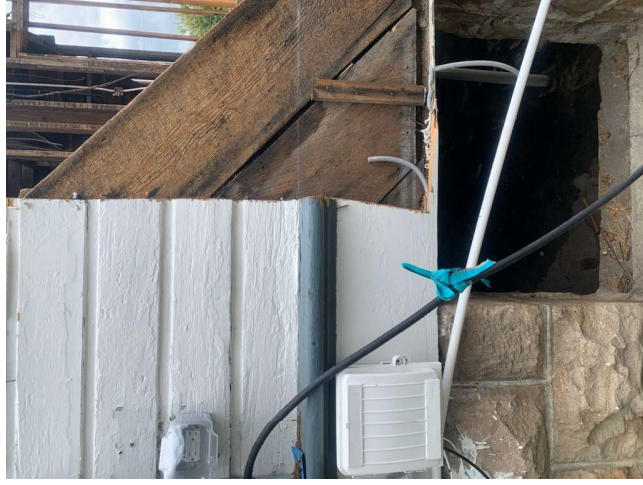


**Side: Existing v. New**



# Siding and Trim:

**Front: Existing**



**Front: New**





# Siding and Trim:

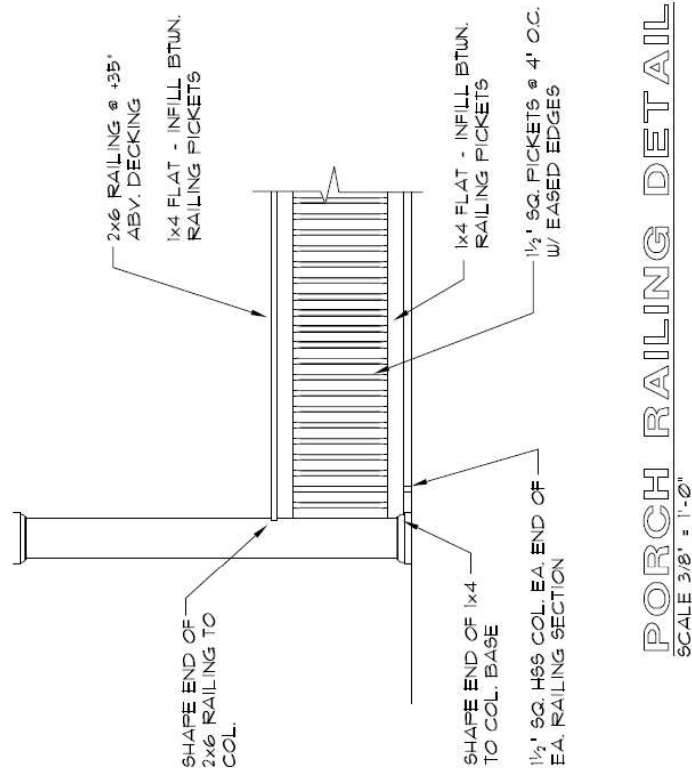
**Side: Existing**



**Side: New**



# Deck Railing Detail:



## KIT CARSON TRAIL INVENTORY

NAME: S. L. LEE HOUSE

ADDRESS: 340 NORTH MINNESOTA STREET.

LOCATION:           .

CONSTRUCTION DATE: 1907.

ARCHITECT: NONE KNOWN.

BUILDER: NONE KNOWN.

### HISTORICAL INFORMATION, INCLUDING HISTORICAL EVENTS & PERSONS CONNECTED WITH THE STRUCTURE.

The house is known as the Dr. Simeon L. Lee home and is also called the Judge Clark J. Guild home. It is on the site of the Central School and was built with lumber from the razed school building in 1907.

The Colonial Revival style home has had only four owners. In 1865 the Carson City School District paid Albert Taylor \$1,000 in gold coin for all of block 36. It was known as the Central School House block until Dr. Simeon L. Lee bought it at public auction for \$42,400 in 1907<sup>1</sup>. Lee, a prominent physician and surgeon in Nevada, and his wife, Lola Montez Watts, lived in the house for the remainder of their lives.

Simeon L. Lee was born in Vandalia, Illinois on September 4, 1844, and in his early twenties became a lieutenant-colonel in the 8th Illinois Infantry under the command of General Grant. After

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<sup>1</sup>. This lot was considered for the proposed new governor's mansion in 1907. The Rickeys donated the lot directly north of their property where the house stands today.

the Civil War he went to Cincinnati, Ohio and for two nonconsecutive years attended the Physio-medical Institute, an irregular school of medicine<sup>2</sup>. Soon after this he went west and arrived in Carson City late in October. After he had practiced in Carson City for two years, he was lured to the then mining camp of Pioche in 1872. He remained there for five years, and then for a few months he practiced in Eureka, Nevada. He returned to Carson City in 1879. He was in charge of the Carson City, Nevada Hospital from 1879 until at least 1901 and was a railroad surgeon for the Virginia and Truckee and Carson & Colorado Railroads for twenty years. He was the first president of the Nevada State Board of Health and at one time was secretary of the Board of Registration and Examination.

One incident of his practice may be related, when Dr. Lee was called upon to travel to Lake Tahoe during a winter blizzard. He had to attend a woman in labor. Dr. Lee went on snowshoes almost all the way. When he arrived at the lake, it was rough and dangerous. Despite warnings that he could not reach the opposite shore, he set out in a boat and after a harrowing experience reached his destination and saved the mother and baby.

Military service was always a part of Dr. Lee's career. In addition to serving in the Civil War in Illinois, he was commissioned in 1877 as a major and inspector general in the Nevada

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<sup>2</sup>. Physio-medical schools were an outgrowth of Thomsonism, which popularized botanical remedies. These schools were established from 1839 to 1850 in Ohio, Georgia, Alabama, Tennessee, Virginia, Massachusetts, and New York by Alva Curtis.

National Guard and later advanced to the rank of colonel. He was the "only surgeon with the Nevada National Guard in [the] war with Indians in what is known in history as the 'White Pine Indian War'."

Dr. Lee married Miss Lola Montez Watts at Flora, Illinois on November 29, 1868. She was a daughter of a distinguished Revolutionary War surgeon. They had three sons and a daughter. Dr. Lee died in Carson City, Nevada on January 12, 1927.

Dr. Lee's hobby was collecting rich specimens of ores, semiprecious stones, rare ceramics, fossils, guns, stamps, coins, Indian baskets, water jugs, arrowheads and various rare artifacts. The collection was presented to the State of Nevada on February 15, 1934, by Lola Lee as a memorial to her husband. Shortly thereafter Mrs. Lee passed away at her home in Carson City on March 20, 1934. The collection was on display in the Nevada State Capitol until 1941, when it was turned over to the newly formed Nevada State Museum. At the time it was valued at \$40,000. This material became a cornerstone in the Nevada State Museum's collection in Carson City. Judge Clark J. Guild, Jr., founder of the Nevada State Museum, bought the Lee house in 1935 and lived in it until his death in 1971. Judge Guild was born and raised in Dayton, Nevada. He performed many marriages in the front parlor of his home until his retirement in 1954. In addition, he granted many divorce decrees, including those of Ida Lupino, Carole Lombard and one of the Roosevelts.

After Judge Guild's death the house was sold to Mr. and Mrs.

Edward Scripps, of the prominent publishing family. They did extensive remodeling, updated the wiring and plumbing, carpeted, wallpapered and painted all of the solid mahogany woodwork white. They lived in the house from 1974 to 1977.

Resource Concepts Inc. purchased the site in 1977.

**SOURCES OF INFORMATION:**

**Nevada Appeal**, Apple Tree, Sunday, July 20, 1980.

**Dr. S.L. Lee Collection** (Carson City: State Printing Office, 1939.)

**Carson City Daily Appeal**, January 12, 1927.

Greasewood Tablettes, "Dr. Simeon L. Lee, an Irregular Doctor,"  
Published by the Department of Pathology. Great Basin History of  
Medicine Division, University of Nevada School of Medicine.

# ILLUSTRATIONS - DR. S.L. LEE HOUSE



Dr. S.L. Lee  
*Harper's*

Cor. Carson and King Sts.  
Carson City, Nev.



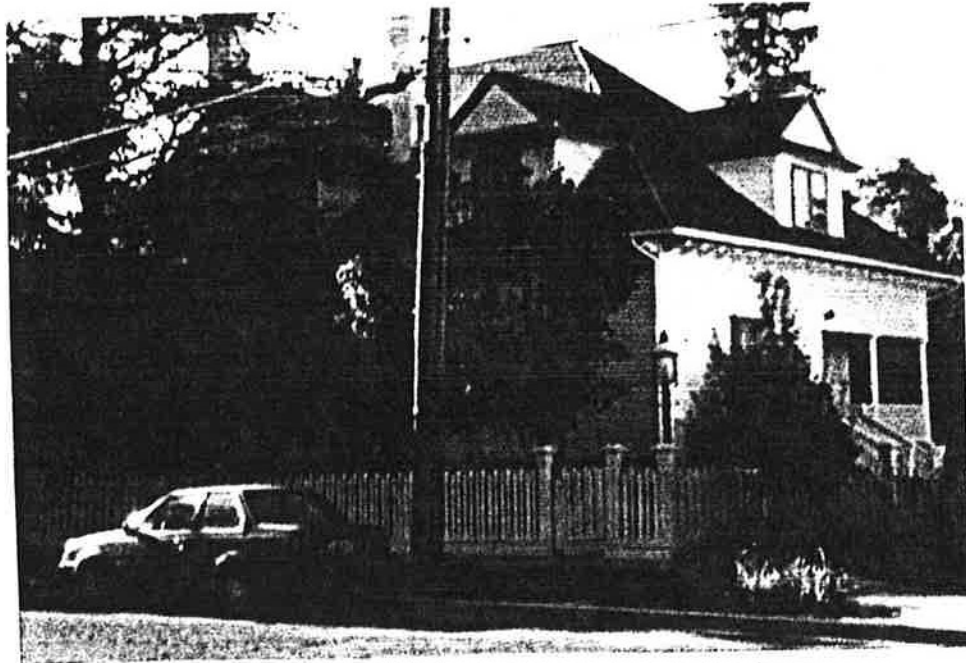
Looking N.W.



Looking N.W.



The Lee home was built on the site of Central School.



Looking S.W. corner of Minnesota and Telegraph.

1993.



CARSON CITY RESOURCES INVENTORY

1988 CC Resources Inventory A-M  
(1980 updated)

IDENTIFICATION:

1. Address: 340 North Minnesota APN 3-192-05
2. Common Name: Resource Concepts Inc. 09 3-192-05
3. Historic Name: Dr. Simeon L. Lee Home MC LAIN, JOHN & C & SCOTT, B & J  
340 N MINNESOTA ST
4. Present Owner: \_\_\_\_\_
5. Address (if not occupant): \_\_\_\_\_ CARSON CITY NV 89703
6. Present Use: offices Original Use: residence

DESCRIPTION, ALTERATIONS, AND RELATED FEATURES:

The structure is one and a half stories in height and combines various forms and elements in a vernacular expression of the Colonial Revival mode. The structure has a foundation of coursed stone and shiplap siding is its exterior surface material, with patterned shingles in the gables. The roof is hipped and gabled with numerous intersecting and projecting gables. The large porch is rounded at the south end, topped by a conical roof, and supported with columns. A circular window pierces the peak of the principal facade gable. A balustrade encircles the porch and flanks the entry stairs.

Some modifications have been made to various windows.

There are several small outbuildings at the rear, some of which are remnants of the former school on this site. An octagonal building served as the girl's rest room. One gabled building served as the barn for horses ridden to school by students. Another gabled structure and the detached garage stand to the west and rear of the main house.

RELATIONSHIP TO SURROUNDINGS:

The structure relates well to its surrounding neighbors, a well integrated element of the area.

Street Furniture: reconstructed two inch by one inch alternating picket fence of appropriate design, sig

Landscaping: ample and well done

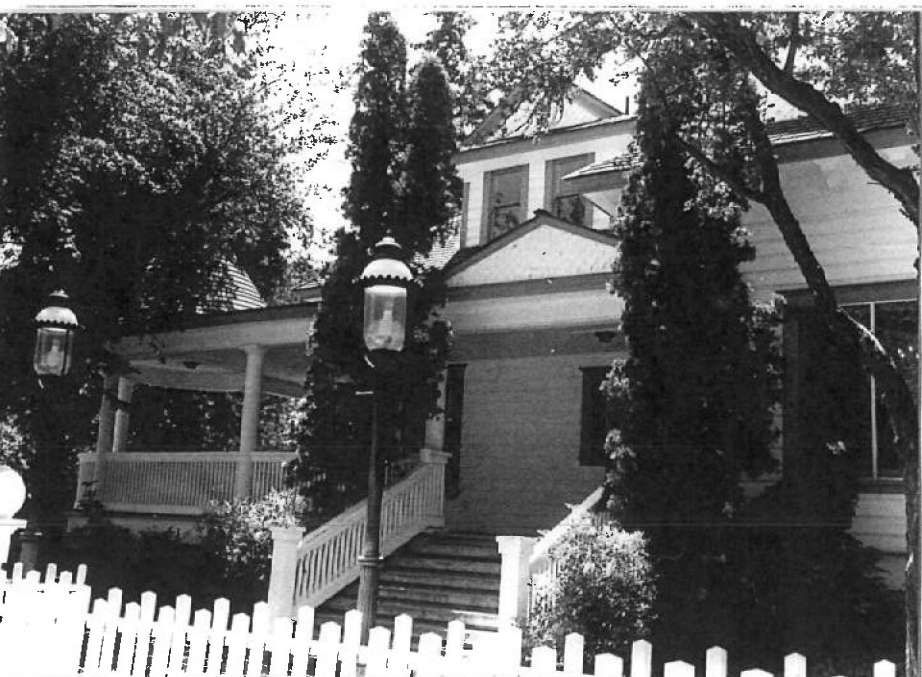
Architectural Evaluation: PS \_\_\_\_\_ NR X

District Designation: PD 2 NR \_\_\_\_\_

HISTORIC ENVIRONMENT CONSULTANTS

2306 J Street, Penthouse  
Sacramento, CA 95816  
(916) 446-2447

Date March 1980



152  
THREATS TO SITE:

None Known ☒ Private Development \_\_\_\_\_  
Zoning RO Public Works Project \_\_\_\_\_  
Vandalism \_\_\_\_\_ Neglect \_\_\_\_\_ Other \_\_\_\_\_

ADJACENT LAND USES:

residential/office/religious

PHYSICAL CONDITION:

Excellent ☒ Good \_\_\_\_\_ Fair \_\_\_\_\_ Deteriorated \_\_\_\_\_

APPROXIMATE SETBACK: 25 feet

HISTORICAL BACKGROUND:

Architect (if known) \_\_\_\_\_

Builder (if known) \_\_\_\_\_

Date of Construction 1906-07 Estimated \_\_\_\_\_ Factual ☒ Source: C.C. Historic Tour

Is Structure on Original Site? ☒ Moved? \_\_\_\_\_ Unknown \_\_\_\_\_

SIGNIFICANCE:

The building is an outstanding representative of the Colonial Revival style, a style which is relatively rare within the city. The design quality of the large structure is excellent, and the combination of multiple forms very skillfully executed. The generous lot with mature and varied plant materials and picket fence add to the presence of the building and enhance the environmental and architectural values of the area.

The Central School occupied this site until the property was purchased by Dr. S.L. Lee in 1906. Lee demolished the building and used the materials to construct this house of 11 rooms and two fifteen foot bathrooms. Philanthropist Judge Clark Guild is said to have occupied the property.

SOURCES:

Carson City Historic Tour  
Noreen Humphreys

SUGGESTED LAND USE AND FACADE MODIFICATIONS, WHERE APPROPRIATE:

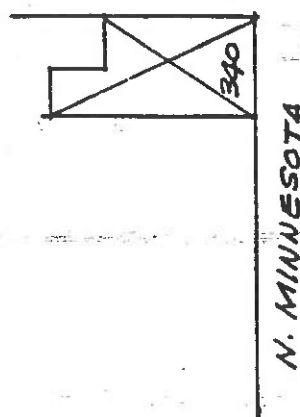
Adaptive Use:

Facade Changes:

Zoning:

TELEGRAPH ST.

SITE MAP



1988 Update by: Ana Koval  
Rainshadow Associates  
P.O. Box 352  
Carson City, NV 89702  
(702) 849-1438

## CARSON CITY RESOURCES INVENTORY

## IDENTIFICATION:

1. Address: 340 North Minnesota APN 3-192-05
2. Common Name: Resource Concepts Inc.
3. Historic Name: Dr. Simeon L. Lee Home
4. Present Owner: Hancock and McLain Scott
5. Address (if not occupant): \_\_\_\_\_
6. Present Use: offices Original Use: residence

## DESCRIPTION, ALTERATIONS, AND RELATED FEATURES:

The structure is one and a half stories in height and combines various forms and elements in a vernacular expression of the Colonial Revival mode. The structure has a foundation of coursed stone and shiplap siding is its exterior surface material, with patterned shingles in the gables. The roof is hipped and gabled with numerous intersecting and projecting gables. The large porch is rounded at the south end, topped by a conical roof, and supported with columns. A circular window pierces the peak of the principal facade gable. A balustrade encircles the porch and flanks the entry stairs.

Some modifications have been made to various windows.

There are several small outbuildings at the rear, some of which are remnants of the former school on this site. An octagonal building served as the girl's rest room. One gabled building served as the barn for horses ridden to school by students. Another gabled structure and the detached garage stand to the west and rear of the main house.

## RELATIONSHIP TO SURROUNDINGS:

The structure relates well to its surrounding neighbors, a well integrated element of the area.



Street Furniture: reconstructed two inch by one inch alternating picket fence of appropriate design, sign

Landscaping: ample and well done

Architectural Evaluation: PS \_\_\_\_\_ NR X

District Designation: PD 2 NR \_\_\_\_\_

HISTORIC ENVIRONMENT CONSULTANTS

2306 J Street, Penthouse

Sacramento, CA 95816

(916) 446-2447

Date March 1980

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THREATS TO SITE:

None Known ☒ Private Development \_\_\_\_\_  
Zoning RD Public Works Project \_\_\_\_\_  
Vandalism \_\_\_\_\_ Neglect \_\_\_\_\_ Other \_\_\_\_\_

ADJACENT LAND USES:

residential/office/religious

PHYSICAL CONDITION:

Excellent ☒ Good \_\_\_\_\_ Fair \_\_\_\_\_ Deteriorated \_\_\_\_\_

APPROXIMATE SETBACK: 25 feet

HISTORICAL BACKGROUND:

Architect (if known) \_\_\_\_\_

Builder (if known) \_\_\_\_\_

Date of Construction 1906-07 Estimated \_\_\_\_\_ Factual ☒ Source: C.C. Historic Tour

Is Structure on Original Site? ☒ Moved? \_\_\_\_\_ Unknown \_\_\_\_\_

SIGNIFICANCE:

The building is an outstanding representative of the Colonial Revival style, a style which is relatively rare within the city. The design quality of the large structure is excellent, and the combination of multiple forms very skillfully executed. The generous lot with mature and varied plant materials and picket fence add to the presence of the building and enhance the environmental and architectural values of the area.

The Central School occupied this site until the property was purchased by Dr. S.L. Lee in 1906. Lee demolished the building and used the materials to construct this house of 11 rooms and two fifteen foot bathrooms. Philanthropist Judge Clark Guilb is said to have occupied the property.

SOURCES:

Carson City Historic Tour  
Noreen Humphreys

SUGGESTED LAND USE AND FACADE MODIFICATIONS, WHERE APPROPRIATE:

Adaptive Use:

Facade Changes:

Zoning:

TELEGRAPH ST.

SITE MAP

