### Proposed Lot Coverage

<table>
<thead>
<tr>
<th>Description</th>
<th>Area (sf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Lot Area</td>
<td>6,250</td>
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<tr>
<td>Area within setbacks</td>
<td>3,861</td>
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<tr>
<td>Total Lot Coverage</td>
<td>1,129</td>
</tr>
<tr>
<td>House footprint</td>
<td>1,064</td>
</tr>
<tr>
<td>Porches</td>
<td>65</td>
</tr>
</tbody>
</table>

### Existing Structures Not in Scope

- Duplex: 1,430 sf

### Proposed Gross SQ Footage

<table>
<thead>
<tr>
<th>Description</th>
<th>Area (sf)</th>
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<tbody>
<tr>
<td>Conditioned</td>
<td>3,482</td>
</tr>
<tr>
<td>(E) Basement</td>
<td>1,064</td>
</tr>
<tr>
<td>(E) Main Floor</td>
<td>1,064</td>
</tr>
<tr>
<td>(E) Second Floor</td>
<td>1,064</td>
</tr>
<tr>
<td>Attic</td>
<td>290</td>
</tr>
<tr>
<td>Unconditioned</td>
<td>65</td>
</tr>
<tr>
<td>North Porch</td>
<td>20</td>
</tr>
<tr>
<td>Entry Porch</td>
<td>26</td>
</tr>
<tr>
<td>East Porch</td>
<td>19</td>
</tr>
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</table>

### Tables

- **Existing Structures Not in Scope:**
  - Duplex: 1,430 sf

- **Proposed Gross SQ Footage:**
  - Conditioned: 3,482 sf
  - (E) Basement: 1,064 sf
  - (E) Main Floor: 1,064 sf
  - (E) Second Floor: 1,064 sf
  - Attic: 290 sf
  - Unconditioned: 65 sf
  - North Porch: 20 sf
  - Entry Porch: 26 sf
  - East Porch: 19 sf

### Diagrams

- **Site Plan:**
  - Shows the layout of the proposed structures with dimensions and setbacks.

- **Proposed Site Plan:**
  - Additional detailed view of the site plan showing the placement of existing and proposed structures.
Drawing and Specification sheets and prints are the property of the Architect. They are not to be used on extensions of the project, or other projects, except by agreement in writing and appropriate compensation to the Architect.

The General Contractor is responsible for confirming and correlating dimensions at the job site. The Architect will not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the project.
1. External corridor to surface 2. Salvage any existing bricks from demo 3. Protect existing items and finishes to remain aligned during construction.
**EXTERIOR WINDOW AND DOOR SCHEDULE**

<table>
<thead>
<tr>
<th>ID</th>
<th>EXTERIOR VIEW</th>
<th>TYPE</th>
<th>RENOVATION</th>
<th>W</th>
<th>H</th>
<th>EGRESS</th>
<th>TEMP</th>
<th>QTY.</th>
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<tbody>
<tr>
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<td></td>
<td>SINGLE HUNG New</td>
<td>6'-2&quot; 6'-8&quot;</td>
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<td>No</td>
<td>1</td>
<td></td>
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<tr>
<td>02</td>
<td></td>
<td>SWING WITH TRANSOM New</td>
<td>3'-15 2'-0&quot;</td>
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<td>Yes</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>03</td>
<td></td>
<td>SINGLE HUNG New</td>
<td>2'-11&quot; 7'-0&quot;</td>
<td>No</td>
<td>Yes</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>04</td>
<td></td>
<td>SINGLE HUNG New</td>
<td>3'-0&quot; 6'-1&quot; 1/2&quot;</td>
<td>No</td>
<td>No</td>
<td>1</td>
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<tr>
<td>05</td>
<td></td>
<td>SINGLE HUNG New</td>
<td>6'-2&quot; 6'-0&quot;</td>
<td>No</td>
<td>No</td>
<td>1</td>
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<tr>
<td>06</td>
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<td>SWING WITH TRANSOM New</td>
<td>3'-3 1/2&quot; 9'-1 1/4&quot;</td>
<td>No</td>
<td>Yes</td>
<td>1</td>
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<tr>
<td>07</td>
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<td>SINGLE HUNG New</td>
<td>6'-1 1/2&quot; 6'-8&quot;</td>
<td>No</td>
<td>Yes</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>SINGLE HUNG New</td>
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<td>No</td>
<td>1</td>
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<tr>
<td>12</td>
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<td>SINGLE HUNG New</td>
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<td>No</td>
<td>1</td>
<td></td>
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<tr>
<td>13</td>
<td></td>
<td>SWING WITH TRANSOM Exisitng</td>
<td>2'-1&quot; 8'-2&quot;</td>
<td>No</td>
<td>No</td>
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<td>14</td>
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<td>No</td>
<td>1</td>
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<tr>
<td>15</td>
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<tr>
<td>16</td>
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<td>1</td>
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<tr>
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<td>1</td>
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<td>18</td>
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<td>SWING WITH TRANSOM Exisitng</td>
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<td>1</td>
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<tr>
<td>19</td>
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<tr>
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<td>No</td>
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<tr>
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<td>No</td>
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<tr>
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<td>1</td>
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</table>

**B-2**  FIXED  New  3'-0"  2'-0"  No  Yes  1

**B-3**  FIXED  New  1'-0"  2'-0"  No  Yes  1

**B-4**  MEDIUM SHOC  New  3'-0"  2'-0"  Yes  Yes  1

**B-5**  SWING  New  3'-0"  6'-6"  No  No  1

**D-1**  SWING DOOR New  SIZES TO BE DETERMINED  2'-10"  6'-0"  Yes  Yes  1

---

**INTERIOR DOOR SCHEDULE**

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<thead>
<tr>
<th>ID</th>
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<tr>
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<td></td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>28</td>
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<td>2'-8&quot; 6'-8&quot;</td>
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</table>
Night Light Under Surface Mount

SINGLE FAMILY
817 29th ST
DENVER, CO 80205

9535 29th ST
JOSEPH, OR 97445

817 29th SINGLE FAMILY
817 29th ST DENVER, CO 80205

E100

ELECTRICAL LEGEND

LIGHTING LEGEND

LIGHTING NOTES

1. Review all lighting locations with architect and owner prior to installation.

2. Review all switches, locations, with architect and owner prior to installation.

3. All switches to be mounted up off grade.

4. At 40 TMPS LIGHT UNDER CABINET LIGHTS. CONFIRM LOCATION OF TRANSFORMER WITH ARCHITECT PRIOR TO INSTALLATION.

5. LANDSCAPE LIGHTING BY OTHER, ALL.

6. ALL SMART SWITCHES AND OUTLETS TO BE REVIEWED BY OWNER PRIOR TO INSTALLATION.
Customer must check this estimate for accuracy. This estimate is valid for 90 days from the date above. After this estimate converts into an invoice, customer must agree to The Door Store Terms & Conditions. A 50% deposit of total sale is required to process the order. Nothing is included that is not specifically listed. Special order items cannot be cancelled or returned after 48 hours from the order date. The Door Store has the rights to adjust price on all special orders. There are no returns on measures. All wooden doors have different grain patterns and doors cannot be rejected because of the variations. Stain color must be specified on customer invoice.
Customer Name & Address  |  Customer Phone  |  Customer E-mail
-------------------------|------------------|---------------------
Burke, Jessica            |                  |                     

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install Exterior Door 36x ...</td>
<td>Installation of Single 3'-0&quot; x 8'-0&quot; Exterior Door, Exterior Jam Brickmold and Interior Casing, Install Hardware Purchased Through The Door Store And Charged On A Separate Line. Haul Away Old Door and Trash</td>
<td>3</td>
<td>795.00</td>
<td>2,385.00</td>
</tr>
<tr>
<td>Douglas Fir Door</td>
<td>Douglas Fir Door 3/1 x 6/8 1 3/4&quot; Simpson 7118 Modified 3 Panel Raised Plus1 Above Glass Panel Raised Ovolo Sticking With 1/2 Lite Clear Glass Insulated</td>
<td>2</td>
<td>2,412.00</td>
<td>4,824.00T</td>
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<td>Douglas Fir Door 3/3 x 6/8 1 3/4&quot; Simpson 7118 Modified 3 Panel Raised Plus1 Above Glass Panel Raised Ovolo Sticking With 1/2 Lite Clear Glass Insulated</td>
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<td>2,439.00</td>
<td>2,439.00T</td>
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<td>Transom</td>
<td>Build and Install Transom 8&quot; Frame</td>
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<td>675.00</td>
<td>2,025.00</td>
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<tr>
<td>Pre-Hang Single Door</td>
<td>Pre-Hang Single Door in a 8&quot; Paint Grade Jamb with Bronze Threshold, Q-Lon, &amp; Double Bore Rough Opening 39 1/2&quot; x 109/108</td>
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<td>825.00</td>
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<td>Install Hardware-Exterior</td>
<td>Install Exterior Hardware Provided by Customer</td>
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<td>3</td>
<td>675.00</td>
<td>2,025.00</td>
</tr>
<tr>
<td>Install Exterior Door 36x ...</td>
<td>Installation of Single 3'-0&quot; x 8'-0&quot; Exterior Door, Exterior Jam Brickmold and Interior Casing, Install Hardware Purchased Through The Door Store And Charged On A Separate Line. Haul Away Old Door and Trash</td>
<td>3</td>
<td>795.00</td>
<td>2,385.00</td>
</tr>
</tbody>
</table>

Customer must check this estimate for accuracy. This estimate is valid for 90 days from the date above. After this estimate converts into an invoice, customer must agree to The Door Store Terms & Conditions. A 50% deposit of total sale is required to process the order. Nothing is included that is not specifically listed. Special order items cannot be cancelled or returned after 48 hours from the order date. The Door Store has the rights to adjust price on all special orders. There are no returns on measures. All wooden doors have different grain patterns and doors cannot be rejected because of the variations. Stain color must be specified on customer invoice.

Subtotal                        | $34,279.28 |
Sales Tax (8.81%)                | $1,915.21  |
Total                            | $36,194.49 |

www.DenverDoorStore.com
Page 2
QUOTE #: P5015051-100-1
QUOTE VALID THROUGH: 5/15/2024

7118 Thermal Sash

SERIES: Exterior French & Sash Doors
DOOR DESIGN: 7118
QUANTITY: 2

DOOR SPECIFICATIONS

SPECIES: Fir
WOOD GRADE: Select
WIDTH: 3-1 1/2"
HEIGHT: 6-8"
THICKNESS: 1 3/4"
PROFILE: Ovolo Sticking
GLASS: Clear / Clear
PANEL: 1-7/16" Innerbond DHRP
ADDITIONAL OPTIONS:
UltraBlock® Technology
Cartoned
***PYD***
CERTIFIED DOOR QUOTE
P - Burke, J
tom Boutin
The Door Store - Denver, CO

QUOTE #: P5015051-200-1
QUOTE VALID THROUGH: 5/15/2024

7118 Thermal Sash

SERIES: Exterior French & Sash Doors
DOOR DESIGN: 7118
QUANTITY: 1

DOOR SPECIFICATIONS

SPECIES: Fir
WOOD GRADE: Select
WIDTH: 3-3 1/2"
HEIGHT: 6-8"
THICKNESS: 1 3/4"
PROFILE: Ovolo Sticking
GLASS: Clear / Clear
PANEL: 1-7/16" Innerbond DHRP
ADDITIONAL OPTIONS:
UltraBlock® Technology
Cartoned
***PYD***

Approved

Date
CERTIFIED DOOR QUOTE

P - Burke, J

tom Boutin
The Door Store - Denver, CO

QUOTE #: P5015051-300-1
QUOTE VALID THROUGH: 5/15/2024

7044 Thermal Sash

SERIES: Exterior French & Sash Doors
DOOR DESIGN: 7044
QUANTITY: 3

DOOR SPECIFICATIONS

SPECIES: Fir
WOOD GRADE: Select
WIDTH: 2-11"
HEIGHT: 6-8"
THICKNESS: 1 3/4"
STILE WIDTH: 5-1/2"
PROFILE: Ovolo Sticking
GLASS: Clear / Clear
PANEL: 1-7/16" Innerbond DHRP
ADDITIONAL OPTIONS:
UltraBlock® Technology
Cartoned

2-3 2-7 2-8

Approved __________________________________________

Date __________________________________________
# CERTIFIED DOOR QUOTE SUMMARY

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
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<td>3</td>
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</tbody>
</table>

Approved

Date
817 Window Comparison:
Listed numbers for each window reference measurements defined below
Sierra Pacific Monument Double Hung Aluminium Clad wood window

<table>
<thead>
<tr>
<th>Frame and Sash Comparison - Single and Double Hung Windows</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructions: To compare the replacement windows to the original, it is important to understand the compatibility between the original and the replacement. Please fill in each value, in inches. Feel free to omit any other measurements that you feel is important to the replacement discussion.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Existing Frame and Sash Exterior Material</th>
<th>Proposed Frame and Sash Exterior Material</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Upper Sash Measurement from exterior façade to glass (Shadow Profile)
2. Lower Sash Measurement from exterior façade to glass (Shadow Profile)
3. Side trim Measurement
4. Top/bottom Measurement
5. Stile Measurement
6. Rail Measurement
7. Meeting Rail Measurement
8. Mullin Measurement
9. Glass Height upper
10. Glass Width lower
11. Glass Height lower
12. Glass Width lower
13. Overall Sash height
14. Overall Sash width
Main Floor x 3 Living

Window Identification:
1) 1-1
2) 1-7
3) 1-9

Existing Frame and Sash Exterior Material: wood

Proposed Frame and Sash Exterior Material: aluminum clad wood

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Upper Sash</td>
<td>8.5</td>
<td>8</td>
</tr>
<tr>
<td>2. Lower Sash</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>3. Side Trim</td>
<td>3</td>
<td>2.75</td>
</tr>
<tr>
<td>4. Top/Bottom</td>
<td>1.5</td>
<td>2.75</td>
</tr>
<tr>
<td>5. Stile</td>
<td>1.5</td>
<td>1.75</td>
</tr>
<tr>
<td>6. Rail</td>
<td>3</td>
<td>3.75</td>
</tr>
<tr>
<td>7. Meeting Rail</td>
<td>1.25</td>
<td>1.75</td>
</tr>
<tr>
<td>8. Muntin</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>9. Glass Height upper</td>
<td>32</td>
<td>35.31</td>
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<td>10. Glass Width upper</td>
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<td>43.94</td>
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<td>11. Glass height lower</td>
<td>36</td>
<td>35.31</td>
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<tr>
<td>12. Glass width lower</td>
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<td>43.94</td>
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<td>75.5</td>
<td>76.375</td>
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<tr>
<td>14. Overall sash width</td>
<td>46</td>
<td>46.375</td>
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Referenced doc for size dimensions above:
Main Floor x 2 Dining Kitchen

Window Identification:
1) 1-4
2) 1-6

<table>
<thead>
<tr>
<th>QUOTE #</th>
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<th>QUOTE NAME</th>
<th>PROJECT</th>
<th>JOB NAME</th>
<th>CUSTOMER P.O.</th>
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<tr>
<td></td>
<td></td>
<td>Existing Window/Door</td>
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<th>LINE #</th>
<th>LINE TYPE</th>
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<tr>
<td>1/59-1</td>
<td>Window/Door</td>
<td>Monument Windows Single Hung</td>
<td>35.5 x 81.5</td>
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Complete Unit, CoreGuard Plus
Frame = Hartford Green 006, Clad/Finish = AAMA 2004, Primed Interior, White, Pine Interior
Sash = Hartford Green 006, Panel/Finish = AAMA 2604, Primed Interior, White, Sash Panel/Weatherstrip Color = Black, Top Sash Attached by 1-Breacket
Low-E 366 W/D, Traditional Bead, Cap Tube, No Argon Gas, Black Warm Edge Spacer
Applied Hinge, Standard Lock, Hinge = Oil Rubbed Forever Bronze, 1-Lock, Finger Lift Handles = Stopped Separately, Oil Rubbed Forever Bronze
Half Screen Applied, FlexScreen, View Clear Mesh
No Nail Fix
Jamb = Custom

Rough Opening: 36.25” x 82.5”
Room Location: 1-4, 1-6

Existing Frame and Sash Exterior Material: wood
Proposed Frame and Sash Exterior Material: aluminum clad wood

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Upper Sash</td>
<td>8.5</td>
<td>8</td>
</tr>
<tr>
<td>2. Lower Sash</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>3. Side Trim</td>
<td>2.5</td>
<td>2.75</td>
</tr>
<tr>
<td>4. Top/Bottom</td>
<td>1.5</td>
<td>2.75</td>
</tr>
<tr>
<td>5. Stile</td>
<td>2</td>
<td>1.75</td>
</tr>
<tr>
<td>6. Rail</td>
<td>3</td>
<td>3.75</td>
</tr>
<tr>
<td>7. Meeting Rail</td>
<td>1</td>
<td>2.75</td>
</tr>
<tr>
<td>8. Muntin</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>9. Glass Height upper</td>
<td>36</td>
<td>36.44</td>
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<tr>
<td>10. Glass Width upper</td>
<td>27.5</td>
<td>30.19</td>
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<td>11. Glass height lower</td>
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<td>12. Glass width lower</td>
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<td>13. Overall sash height</td>
<td>77</td>
<td>78.75</td>
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<tr>
<td>14. Overall sash width</td>
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<td>32.63</td>
</tr>
</tbody>
</table>

Referenced doc for size dimensions above:
817 Window Comparison Document Pg3

Stair Window

Window Identification:
1) 1-3

Existing Frame and Sash Exterior Material: wood
Proposed Frame and Sash Exterior Material: aluminum clad wood

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Upper Sash</td>
<td>8.5</td>
</tr>
<tr>
<td>2.</td>
<td>Lower Sash</td>
<td>11</td>
</tr>
<tr>
<td>3.</td>
<td>Side Trim</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>Top/Bottom</td>
<td>1.5</td>
</tr>
<tr>
<td>5.</td>
<td>Stile</td>
<td>1.5</td>
</tr>
<tr>
<td>6.</td>
<td>Rail</td>
<td>3</td>
</tr>
<tr>
<td>7.</td>
<td>Meeting Rail</td>
<td>1.25</td>
</tr>
<tr>
<td>8.</td>
<td>Muntin</td>
<td>n/a</td>
</tr>
<tr>
<td>9.</td>
<td>Glass Height upper</td>
<td>39</td>
</tr>
<tr>
<td>10.</td>
<td>Glass Width upper</td>
<td>26</td>
</tr>
<tr>
<td>11.</td>
<td>Glass height lower</td>
<td>39.5</td>
</tr>
<tr>
<td>12.</td>
<td>Glass width lower</td>
<td>25.5</td>
</tr>
<tr>
<td>13.</td>
<td>Overall sash height</td>
<td>85</td>
</tr>
<tr>
<td>14.</td>
<td>Overall sash width</td>
<td>28.5</td>
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</tbody>
</table>

Stair Window

Window Identification:
1) 1-3
### Existing Frame and Sash Exterior Material: wood

### Proposed Frame and Sash Exterior Material: aluminum clad wood

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Upper Sash</td>
<td>8.5</td>
<td>8</td>
</tr>
<tr>
<td>2. Lower Sash</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>3. Side Trim</td>
<td>3</td>
<td>2.75</td>
</tr>
<tr>
<td>4. Top/Bottom</td>
<td>1.5</td>
<td>2.75</td>
</tr>
<tr>
<td>5. Stile</td>
<td>1.5</td>
<td>1.75</td>
</tr>
<tr>
<td>6. Rail</td>
<td>3</td>
<td>3.75</td>
</tr>
<tr>
<td>7. Meeting Rail</td>
<td>1.5</td>
<td>2.75</td>
</tr>
<tr>
<td>8. Muntin</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>9. Glass Height upper</td>
<td>31.5</td>
<td>31.9375</td>
</tr>
<tr>
<td>10. Glass Width upper</td>
<td>29.5</td>
<td>31.9375</td>
</tr>
<tr>
<td>11. Glass height lower</td>
<td>31</td>
<td>31.9375</td>
</tr>
<tr>
<td>12. Glass width lower</td>
<td>29.5</td>
<td>31.9375</td>
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<td>13. Overall sash height</td>
<td>68</td>
<td>69.625</td>
</tr>
<tr>
<td>14. Overall sash width</td>
<td>33</td>
<td>34.375</td>
</tr>
</tbody>
</table>
817 Window Comparison Document Pg5

Upstairs Bathroom x2

Window Identification:
1) 2-4

Existing Frame and Sash Exterior Material: wood
Proposed Frame and Sash Exterior Material: aluminum clad wood

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Upper Sash</td>
<td>8.5</td>
<td>8</td>
</tr>
<tr>
<td>2. Lower Sash</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>3. Side Trim</td>
<td>3</td>
<td>2.75</td>
</tr>
<tr>
<td>4. Top/Bottom</td>
<td>1.5</td>
<td>2.75</td>
</tr>
<tr>
<td>5. Stile</td>
<td>1.5</td>
<td>1.75</td>
</tr>
<tr>
<td>6. Rail</td>
<td>3</td>
<td>3.75</td>
</tr>
<tr>
<td>7. Meeting Rail</td>
<td>1.25</td>
<td>2.75</td>
</tr>
<tr>
<td>8. Muntin</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>9. Glass Height upper</td>
<td>24</td>
<td>26.4375</td>
</tr>
<tr>
<td>10. Glass Width upper</td>
<td>32</td>
<td>34.1875</td>
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<tr>
<td>11. Glass Height lower</td>
<td>26</td>
<td>26.4375</td>
</tr>
<tr>
<td>12. Glass width lower</td>
<td>33</td>
<td>34.1875</td>
</tr>
<tr>
<td>13. Overall sash height</td>
<td>56</td>
<td>58.625</td>
</tr>
<tr>
<td>14. Overall sash width</td>
<td>36</td>
<td>36.625</td>
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</table>

QUOTE # | PO # | QUOTE NAME | PROJECT | JOB NAME | CUSTOMER PO # |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>179672</td>
<td></td>
<td>Burke - 817 79th Street</td>
<td>Unassigned</td>
<td></td>
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</table>

Monument Windows Single Hung Operating 39.5 x 61.5
Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior
Sash = Hartford Green 056, Sash-Panel Clad Fixwth = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black, Top Sash Attached by = L-Bracket
Low-E 366 Wi/89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer
Applied Hdw, Standard Lock, Hdw = Oil Rubbed Forever Bronze, 2-Locks, Finger Lift Handles = Shipped Separately, Oil Rubbed Forever Bronze
Half Screen Applied, FlexScreen, View Clear Mesh
No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 40.25" X 62"
Overall Unit: 39.5" X 61.5"
Room Location: 2-4
817 Window Comparison Document Pg6

Upstairs

Window Identification:
1) 2-5

Existing Frame and Sash Exterior Material: wood
Proposed Frame and Sash Exterior Material: aluminum clad wood

<p>| | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>---</td>
<td>-----------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>1. Upper Sash</td>
<td>8.5</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>2. Lower Sash</td>
<td>11</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>3. Side Trim</td>
<td>3</td>
<td>2.75</td>
<td></td>
</tr>
<tr>
<td>4. Top/Bottom</td>
<td>1.5</td>
<td>2.75</td>
<td></td>
</tr>
<tr>
<td>5. Stile</td>
<td>1.5</td>
<td>1.75</td>
<td></td>
</tr>
<tr>
<td>6. Rail</td>
<td>3</td>
<td>3.75</td>
<td></td>
</tr>
<tr>
<td>7. Meeting Rail</td>
<td>1.25</td>
<td>2.75</td>
<td></td>
</tr>
<tr>
<td>8. Muntnin</td>
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<td>n/a</td>
<td></td>
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<tr>
<td>9. Glass Height upper</td>
<td>24</td>
<td>24.4375</td>
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<td>10. Glass Width upper</td>
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<td>11. Glass height lower</td>
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<td>284.4375</td>
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<td>14. Overall sash width</td>
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<td>34.375</td>
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Window Identification:
1) B-1
2) B-2
3) 100
4) B-6
5) B-7

Existing Frame and Sash Exterior Material: wood
Proposed Frame and Sash Exterior Material: aluminum clad wood

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<tr>
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<th>Existing</th>
<th>Proposed</th>
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<tbody>
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<td>18</td>
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<tr>
<td>2. Lower Sash</td>
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<td>n/a</td>
</tr>
<tr>
<td>3. Side Trim</td>
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<td>2.75</td>
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<tr>
<td>4. Top/Bottom</td>
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<td>2.75</td>
</tr>
<tr>
<td>5. Stile</td>
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<td>1.75</td>
</tr>
<tr>
<td>6. Rail</td>
<td>2</td>
<td>3.75</td>
</tr>
<tr>
<td>7. Meeting Rail</td>
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<td>2.75</td>
</tr>
<tr>
<td>8. Muntin</td>
<td>.75</td>
<td></td>
</tr>
<tr>
<td>9. Glass Height left</td>
<td>6.25</td>
<td>n/a</td>
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<td>10. Glass Width left</td>
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<td>11. Glass Height right</td>
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<td>30.3125</td>
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<td>20.625</td>
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<tr>
<td>14. Overall sash width</td>
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<td>32.625</td>
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## 817 Window Comparison Document Pg8

**Basement x1**

Window Identification:
1) B-3

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<th>PO #</th>
<th>QUOTE NAME</th>
<th>PROJECT</th>
<th>JOB NAME</th>
<th>CUSTOMER PO #</th>
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<tbody>
<tr>
<td>179172</td>
<td></td>
<td>Burke - 817 29th Street Single Family</td>
<td>Unassigned</td>
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<tr>
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<th>DESCRIPTION</th>
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<th>UM</th>
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<tr>
<td>700-1</td>
<td>WindowAndDoor</td>
<td>PK-382</td>
<td>1</td>
<td>EA</td>
</tr>
</tbody>
</table>

### Aluminum Clad Wood Windows Averaging Fixed 23.5 x 23.5

Complete Unit, Coreguard Plus
Frame = Hartford Green 090, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior, Standard Frame
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black
Low-E 366 W189, Traditional Bead, Casp Tube, No Argon Gas, Black Warm Edge Spacer

No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

### B-3 Extremity

- **Rough Opening:** 24.25" X 24"
- **Overall Unit:** 23.5" X 23.5"
- **Room Location:** B-3

### Line 1

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<th>LINE #</th>
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<th>DESCRIPTION</th>
<th>QTY</th>
<th>UM</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>WindowAndDoor</td>
<td>PK-382</td>
<td>1</td>
<td>EA</td>
</tr>
</tbody>
</table>

#### Existing Frame and Sash Exterior Material: wood

#### Proposed Frame and Sash Exterior Material: aluminum clad wood

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Upper Sash</td>
<td>18</td>
</tr>
<tr>
<td>2.</td>
<td>Lower Sash</td>
<td>n/a</td>
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<tr>
<td>3.</td>
<td>Side Trim</td>
<td>2.5</td>
</tr>
<tr>
<td>4.</td>
<td>Top/Bottom</td>
<td>2</td>
</tr>
<tr>
<td>5.</td>
<td>Stile</td>
<td>2</td>
</tr>
<tr>
<td>6.</td>
<td>Rail</td>
<td>2</td>
</tr>
<tr>
<td>7.</td>
<td>Meeting Rail</td>
<td>n/a</td>
</tr>
<tr>
<td>8.</td>
<td>Muntin</td>
<td>.75</td>
</tr>
<tr>
<td>9.</td>
<td>Glass Height left</td>
<td>n/a</td>
</tr>
<tr>
<td>10.</td>
<td>Glass Width left</td>
<td>n/a</td>
</tr>
<tr>
<td>11.</td>
<td>Glass height right</td>
<td>19.5</td>
</tr>
<tr>
<td>12.</td>
<td>Glass width right</td>
<td>19.5</td>
</tr>
<tr>
<td>13.</td>
<td>Overall sash height</td>
<td>20.625</td>
</tr>
<tr>
<td>14.</td>
<td>Overall sash width</td>
<td>20.625</td>
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## Window Identification:

1. B-8
2. B-5

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<th>Proposed</th>
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<tbody>
<tr>
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</tr>
<tr>
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</tr>
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</tr>
<tr>
<td>4. Top/Bottom</td>
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</tr>
<tr>
<td>5. Stile</td>
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</tr>
<tr>
<td>6. Rail</td>
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<tr>
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<td>8. Muntin</td>
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<td>9. Glass Height upper</td>
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</tr>
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<td>10. Glass Width upper</td>
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<td>14. Overall sash width</td>
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817 Window Comparison Document Pg10

Basement x1
Window Identification:
1) B-4

Existing Frame and Sash Exterior Material: wood
Proposed Frame and Sash Exterior Material: aluminum clad wood

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<thead>
<tr>
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</tr>
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<td>14. Overall sash width</td>
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Existing Frame and Sash Exterior Material: wood
Proposed Frame and Sash Exterior Material: aluminum clad wood

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<th>LINE TYPE</th>
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<td>900-1</td>
<td>WindowArdDoor</td>
<td>PK. 362 WindowArdDoor, PK. 362, Aluminum Clad Wood Windows Awning Fixed 24.5 x 18</td>
</tr>
</tbody>
</table>

No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 25.25" X 18.5"
Overall Unit: 24.5" X 18"
# 817 Window Comparison Document Pg11

**Attic x1**

**Window Identification:**

1) attic

![](image)

**Existing Frame and Sash Exterior Material:** wood

**Proposed Frame and Sash Exterior Material:** aluminum clad wood

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<thead>
<tr>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Upper Sash</td>
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</tr>
<tr>
<td>2. Lower Sash</td>
<td>n/a</td>
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<td>3. Side Trim</td>
<td>n/a</td>
</tr>
<tr>
<td>4. Top/Bottom</td>
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</tr>
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<td>5. Stile</td>
<td>n/a</td>
</tr>
<tr>
<td>6. Rail</td>
<td>n/a</td>
</tr>
<tr>
<td>7. Meeting Rail</td>
<td>n/a</td>
</tr>
<tr>
<td>8. Muntin</td>
<td>n/a</td>
</tr>
<tr>
<td>9. Glass Height left</td>
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</tr>
<tr>
<td>10. Glass Width left</td>
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<tr>
<td>13. Overall sash height</td>
<td>24 RO</td>
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<tr>
<td>14. Overall sash width</td>
<td>36 RO</td>
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</table>
1-5 INTERIOR

* ON SHEET A200 AFTER PROPOSED, TAGGED AS D1/1-6
1-5 INTERIOR*

* ON SHEET A200 AFTER PROPOSED, TAGGED AS D1/1-6
2-3
EXTERIOR
1-5
EXTERIOR*

* ON SHEET A200 AFTER PROPOSED, TAGGED AS D1/1-6
WINDOW EVALUATION
FOR
817 29TH STREET
DENVER, CO 80205

PREPARED FOR:
JESSICA J. BURKE
801-803 29TH STREET, DENVER, CO 80205
JESSICAJBURKE@GMAIL.COM

PREPARED BY:
PHILLIP BARLOW, HISTORIC PRESERVATION SPECIALIST
BARLOW CULTURAL RESOURCE CONSULTING, LLC
4576 TANGLEWOOD TRAIL, BOULDER, CO 80301

303-746-1602 : BARLOWPL@GMAIL.COM

JANUARY 8, 2024
Project Overview:
Located in the Curtis Park historic district, 817 29th Street was constructed ca. 1887 as a residential home in a reserved Italianate style. Distinctive features include a square form with hipped roof, brick belt course, heavy stone lintels over door and window openings on the first floor, dentiled cornice, and balconies on the 29th Street and courtyard side.

Alterations from the original form include infill of a door on the rear of the second story at location 2-5 where the ghost lines of the opening are visible in the brick. There was likely a rear porch at this location. Multiple sash, but not whole windows, have been replaced at locations 1-7, 2-2, 2-5, 2-6, at 2-9.

Window Numbering and Nomenclature:
The windows in this report are referred to with two numbers. The first number is the level on which the window is found. For example, ground level is 1, 2 is the first story above ground level, 3 is the second level above ground, and so on. The second number is the location of that window on the level. If standing outside the building facing the southwest elevation, the window labeled one should be the furthest right, with subsequent numbers continuing around the level in a counterclockwise manner. Labeled elevations of the building are included for reference.

Common terms found in this report include:

- **One-over-one or 1/1**: This means that the window has one pane of glass in the upper sash and one in the lower with no muntins.
- **Lower Rail**: Refers to the horizontal piece of wood at the bottom of the lower sash. This is one of the most common locations for deterioration
- **Stile**: Stiles are the vertical wood sides of the sash
- **Meeting Rail**: Refers to the lowest horizontal member of the upper sash and highest member of the lower sash that meet when closed
- **Rope and Pulley**: Refers to the counterbalance system that utilizes ropes or chains connected to the sash that go over pulleys set in the jambs and connect to metal weights in the walls
- **Double-Hung**: Indicates that both the upper and the lower sash were designed to move. Similarly, single-hung means that only the lower sash was originally designed to move
- **Casement**: A casement window is a window sash that is hinged on one stile to allow the sash to swing open
- **Muntin**: A muntin is a piece of wood within the window sash that holds the glass
- **Fixed Window**: A fixed window was not originally designed to have any operation
- **Pane, or Lite**: A pane is a single piece of glass. Panes may also be referred to as lites. A window with fifteen pieces of glass divided by muntins could be referred to as a 15-lite window
**Window Types:**
There are five distinct styles of historic windows in the property.

1. (6 windows) wood, one-lite transom window

2. (12 windows) Wood, single-lite double-hung window with weight counterbalances
3. (5 windows) Wood, nine-lite casement or hopper sash. Basement

![Window Image]

4. (1 window) Wood, two-lite casement or hopper sash. Basement

![Window Image]
Explanation of Repair Classes:

**Classes**

All of the historic windows on the building fall into one of three repair classes. The definition for these classes are derived from the National Park Service's "Preservation Brief 9: The Repair of Historic Wooden Windows", which is available online at: [https://www.nps.gov/tps/how-to-preserve/briefs/9-wooden-windows.htm](https://www.nps.gov/tps/how-to-preserve/briefs/9-wooden-windows.htm)

**Class 1**

Indicates that the window needs basic maintenance, much of which can typically be addressed by a qualified painter. The scope for a class 1 window would likely require some or all of the following:

1. Some degree of interior and exterior paint removal (loose and flaking paint)
2. Some degree of exterior caulk removal and replacement
3. Removal and repair of sash (including reglazing where necessary)
4. Repairs to the frame
5. Weatherstripping and Reinstallation of the sash
6. Priming of bare wood and repainting

**Class 2**

Indicates wood decay that will require more specialized repairs, including wood consolidation and treatment with epoxy. Work in this class range requires a qualified historic restoration specialist or a qualified painter who has several historic wood window projects in their portfolio and experience with multiple epoxy systems. The scope for a class 2 window would include everything for Class 1 plus removal of rot and treatment with epoxy.

**Class 3**

Indicates severe deterioration of wood components which require "replacement-in-kind". This does not mean that the window needs to be replaced, but it does mean that the most deteriorated portions will need to be removed and new duplicate components spliced in, otherwise known as a "Dutchmen" repair. This class of repair requires a historic restoration specialist with millwork experience. The scope for a class 3 window would include everything for Class 1 and 2 plus the creation of custom router or shaper cutters to recreate profiles, complete dismantling of the window sash to facilitate replacement, fabrication of new material for Dutchmen repairs, application of the new material, and reconstruction of the sash.
Conditions Assessment:
All of the historic windows exhibit typical conditions associated with their age and deferred maintenance, including peeling paint, failed perimeter caulk, moderate to heavy deterioration of the wood sill, deterioration of the bottom of the exterior wood trim, broken sash cords, and glazing compound failure. The majority of the original windows are painted, caulked, or nailed closed.

All of the historic windows would need to undergo a full class-3 restoration to return them to original operational condition.

Notable conditions include:

- Heavy damage to interior trim and casing from prying and stapling. Many of the windows were covered with plastic sheeting and show evidence of being pried open with screwdrivers. Anticipate additional fees to fill, sand, and reshape these components during a restoration.
• Many windows are fixed closed. Interior trim is often cut.

Image 3: Window 1-6. Common condition

• Cabling is run through the window sash in multiple locations.

Image 4: Window 1-9. Common condition
Example scope of work for a full restoration, including both class 2 and class 3 repairs:

**Wood Double-Hung, Casement, and Fixed Windows**

**On-Site Method of Procedure**

**Window Sash Removal:**
1.) When required per EPA regulations, place poly-sheeting on the floor at the work area to collect any dust or debris created during the sash removal process. The sheeting will extend 10 feet from the window opening towards the interior of the room and 6 feet on either side of the opening. If these minimum distances cannot be achieved, the sheeting will extend as far as possible into the room as well as side to side in front of the window opening.
2.) Remove the left and right sash from the opening by removing the hinge pins or by unscrewing the hinge from the jamb.
4.) Number each sash for each opening according to the window schedule using a “Sharpie” to write the corresponding number on the unfinished side of the stile of each sash. Where multiple sashes are present in one opening, a dash (-) followed by a sequential numbering system will be used. For example; a window opening designated 236C has 4 total sashes. There are two upper sashes and two lower sashes. As viewed from the interior, if sash removal will begin in the lower left hand corner of the opening: The lower left hand sash will be labeled 236C-1, the upper left hand sash will be labeled 236C-2, the lower right hand sash will be labeled 236C-3, and the upper right hand sash will be labeled 236C-4. This system will be utilized in the same order where transom windows are present. The interior stop will be labeled with 236C and differentiated by an “L,” “C,” or “R” to designate its original location (Left, Center, or Right). The parting stop is not typically labeled or restored as it is most often time damaged beyond repair during the removal process and new parting stop will be fabricated to match the existing for every opening.
5.) When required per EPA regulations, bag or wrap all components; including sash, interior stop, parting stop and trash in heavy duty poly-sheeting or poly-bags to assure containment of any dust or debris during transport.
6.) When required per EPA regulations, cleaning verification will be provided following a thorough cleaning of the area using damp wipes and/or HEPA vacuums; including, but not limited to, all sills, stools, floors, weight pockets, poly-bags and poly-sheeting.

**Installation of Temporary Enclosures:**
1.) The material selected for use as the temporary enclosure, “Verolite” or similar, will be cut to fit inside the existing opening whenever possible. If not specified, plywood or OSB will be utilized. When required, the perimeter of the Verolite, plywood, or OSB will be wrapped in foam tape in an effort to create the most effective weather seal possible. The wood backing for this will be screwed to the existing frame where the interior stop and/or parting stop was located. The screw holes created will be hidden by the interior stop or parting stop upon reinstallation of the restored components and causes little to no damage to the frame. The verolite will then be attached to this backing material utilizing screws.

**Existing Frame Restoration:**
1.) Loose and Flaking or failed paint is removed following the National Park Service Preservation Brief number 10. A “wet method” utilizing chemical strippers, carbide scrapers, or HEPA approved mechanical sanders (or a combination of all three) will ensure that no lead based paint dust is created. Following the paint stripping process, a thorough visual and tactile examination of the existing wood substrate will
be performed.
2.) If there are any pieces or components that have shifted or become loose on the frame, counter-sunk coated screws and/or galvanized brad nails will be utilized to restore the integrity of the components.
3.) If it is determined that the existing substrate is beyond repair through the use of epoxy, the deteriorated wood will be “cut” out of the existing frame and a replacement piece fabricated to replicate the removed component, commonly referred to as a “Dutchman,” will be installed in its place. After all of the Dutchmen have been installed, epoxy will be utilized to make any other repairs that are deemed necessary.
4.) When the epoxy has dried, it will be sanded to shape. A thorough review by our staff will determine if any additional epoxy consolidate is required.
5.) All window frame components will then be primed, and an additional review completed to ensure that we have achieved the acceptable criteria set forth by the “Mock-up Review.” If more consolidation is deemed necessary, the primer at that location will be removed and steps 5-7 will be repeated.
6.) A modified polyurethane sealant will then be applied to any and all areas that require it. The sealant will either be color matched and/or paintable. It will be a low-modulus elastomeric product.
7.) A minimum of two finish coats of paint will then be applied and given ample drying time before the restored sash will be installed.

**Sash Installation:**

1.) The sash will be delivered pre-finished to site and will be installed per the plans and specifications. Depending on the specifications, metal interlocking weather stripping will be utilized in conjunction with compression bulb weatherstripping for casement sash. The sashes are installed in a manner which attempts to balance the ease of operation while still maintaining the best possible seal against air infiltration.
2.) The locking hardware will then be installed.
3.) All necessary caulking and paint touch up will be performed after installation to provide a clean and seamless finished product.
4.) After the owner and architect have reviewed the finished product, all necessary punch-list items will be corrected.

**Off-site Method of Procedure**

**Receiving Sash:**

1.) When the sashes and interior stop arrive at the “Shop” the window designation numbers are “stamped” into the sash at the same location. This is to ensure that the number is not inadvertently removed during the restoration process.

**Glazing Putty, Glass Removal, and Glass Cleaning:**

1.) Steam ovens are utilized to soften the historic glazing putty and all existing putty is removed. This ensures a wet method technique that is non-invasive and is the best method to avoid breakage of the glass during this process.
2.) When the glass has been removed, the corresponding sash number is written on a piece of tape and applied to the surface of the glass.
3.) This number will be removed temporarily when the glass is cleaned, but will be reattached after the cleaning is complete. Typical glass cleaners such as Windex are utilized. All glass that can be reused will be reused. Existing scratches on the glass that were not created during the removal or cleaning process will not dictate replacement of the glass unless directed by the architect and/or owner.
4.) When the sash has completed the restoration process in the shop, the original piece of glass will be installed in the same location from which it came.
**Sash Restoration:**
1.) All sashes, after they have been stripped, are re-squared prior to applying epoxy consolidates. This is achieved by clamping the sash and when 90 degree internal angles are achieved, dowels are utilized to maintain the shape.
2.) Before the glass is set and bedded, and after the sanding of the epoxy is completed, the glazing rabbit is primed.
3.) After sanding the epoxy consolidates, kerfs are cut for future installation of the bulb seal and, when specified, t-rail weather stripping.

**Sash Replication:**
1.) Where window sash are missing the jambs are carefully measured, including the diagonals to allow for adjustments for out-of-square openings and with careful notation of hinge and hardware location.
2.) Lumber is selected to match the existing wood, with care being taken regarding grain direction to prevent warping or twisting.
3.) Using the existing sash as a template, new sash are constructed mimicking the stile and rail dimensions, joinery details, and profiles.
4.) Once constructed, the replica sash join the restored sash at the sanding phase and continue through the same steps in the Glazing and Painting and Staining processes.

**Interior Stop Restoration:**
1.) This process is similar to the Existing Frame Restoration section but may include some new fabrication to replace pieces which were damaged beyond repair during the sash removal process.

**Parting Stop Fabrication:**
1.) All parting stop will be fabricated to match existing and will be prefinished in the shop prior to installation on-site.

**Glazing Process:**
1.) Dap Glazing compound is applied to the glazing rabbit and the glass is installed using push points when traditional glazing putty is utilized. Push points are not used when glass stops (wood or other) are utilized.
2.) The residual Dap compound that “oozes” out is cleaned from the glass and wood sash surfaces.
3.) When the Dap has “set-up” Glazing putty or wood glass stop is applied.
4.) The sash is then placed vertically in a drying rack.
5.) Depending on the type of glazing compound utilized, dry time can range from a little as a few days to as long as 6 weeks.

**Painting and Staining Process:**
1.) The sashes are masked to protect the glass but still allow the finish paint to extend very slightly beyond the glazing bed to create a seal.
2.) They are transferred to painting racks, and the primer and two finish coats are applied with an airless or a HVLP paint sprayer.
3.) When the finish coat is dry, the masking is removed, the bulb seal installed, glass cleaned, and the sash delivered to the site for installation.
Thank you for the opportunity to visit this property. If you have any questions or comments please contact me at 303-746-1602, or barlowpl@gmail.com

Regards,

Phillip Barlow, Owner

Enclosed Materials:
Labeled Elevations
Window Evaluation Matrix
Photo Documentation
Labeled Elevations

Image 5: 29th Street and Alley Elevations

Image 6: Alley and Rear Elevations
<table>
<thead>
<tr>
<th>Location</th>
<th>Opening Number</th>
<th>Description/Notes</th>
<th>Operation</th>
<th>Material</th>
<th>Sill</th>
<th>Jams</th>
<th>Exterior trim &amp; stops</th>
<th>Stool</th>
<th>Interior trim &amp; stops</th>
<th>Interior wall surfaces</th>
<th>Lowest Rail</th>
<th>Other rails &amp; sashes</th>
<th>Meeting Rails</th>
<th>Muntins and mullions</th>
<th>Operators &amp; handles</th>
<th>Movement Mechanics</th>
<th>Locks</th>
<th>Square</th>
<th>Weatherstripping</th>
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<td>DH W</td>
<td>3 2 3 2 3 2 3 2 1 3 1 2 2 Y N Y</td>
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<tr>
<td>1 2</td>
<td>3' x 2', Transom</td>
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<tr>
<td>1 3</td>
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<td>DH W</td>
<td>3 2 3 2 3 2 3 2 1 3 1 3 2 Y N Y</td>
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<tr>
<td>1 4</td>
<td>2' 7&quot; x 6' 4&quot;, blocked by cabinet</td>
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<td>3 2 3 2 3 2 3 2 1 3 1 3 2 Y N Y</td>
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<tr>
<td>1 5</td>
<td>2'8&quot; x 2', Transom</td>
<td>H W</td>
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<tr>
<td>1 6</td>
<td>2' 6&quot; x 6' 4&quot;</td>
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<tr>
<td>1 7</td>
<td>3' 10&quot; x 6' 4&quot;, lower sash replaced</td>
<td>DH W</td>
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<td>1 9</td>
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<td>DH W</td>
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<td>2 1 2 2 2 2 2 / 3 2 / 3 3 3 3 3 3 Y N Y</td>
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<td>2 1 2 2 2 2 / 3 2 / 3 3 3 3 3 3 Y N Y</td>
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<td>2 3</td>
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<td>H W</td>
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</table>

**KEY**

**FRAME/SASH/FUNCT**
3- Advanc. Deterior.  2- Unstable  1- Maintenance Req.  0- Excellent

**MATERIAL**
S- Steel  W- Wood  A- Aluminum  O- Other  GB- Glass Block

**OPERATION**
SH- Single hung  DH- Double hung  C- Casement  HS- Horizontal Slider  FX- Fixed  P- Pivot  H- Hopper  O- Other

**MISC.**
PS-Painted Shut  UPS-Upper painted shut  N/A- Not Applicable
817 Exterior Lights Proposed

Low profile flush mount light installed above:
1-2 (Front door, south elevation)
1-8 (side porch door, east elevation)
Basement access door, east elevation

Porch mounted lighting installed across from
2-8 (upstairs porch door, east elevation)
2-7 (upstairs porch door, east elevation)

Dark Sky light proposed above:
1-5 (rear door, north elevation)
BILL TO: Jessica Burke  
801 & 803 29th St.  

SHIP TO: Denver, CO

<table>
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<th>QUOTE #</th>
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<td>Burke - 817 29th Street</td>
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<td>WindowAndDoor</td>
<td>PK- 362</td>
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Monument Windows Single Hung Operating 37.25 x 72.5

Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black, Top Sash Attached by = L-Bracket
Low-E 366 Wi89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer
Applied Hdwe, Standard Lock, Hdwe = Oil Rubbed Forever Bronze, 1-Lock, Finger Lift Handles = Shipped Separately, Oil Rubbed Forever Bronze
Half Screen Applied, FlexScreen, View Clear Mesh
No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 38" X 73"
Overall Unit 37.25" X 72.5"
Room Location: 2-2,2-1, 2-9, 2-6

* All drawings are viewed from exterior of window.
Monument Windows Single Hung Operating 37.25 x 57.5

Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black, Top Sash Attached by = L-Bracket
Low-E 366 W/i89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer
Applied Hdwe, Standard Lock, Hdwe = Oil Rubbed Forever Bronze, 1-Lock, Finger Lift Handles = Shipped Separately, Oil Rubbed Forever Bronze
Half Screen Applied, FlexScreen, View Clear Mesh
No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 38" X 58"
Overall Unit: 37.25" X 57.5"
Room Location: 2-5

Monument Windows Single Hung Operating 49.25 x 79.25

Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black, Top Sash Attached by = L-Bracket
Low-E 366 W/i89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer
Applied Hdwe, Standard Lock, Hdwe = Oil Rubbed Forever Bronze, 2-Locks, Finger Lift Handles = Shipped Separately, Oil Rubbed Forever Bronze
Half Screen Applied, FlexScreen, View Clear Mesh
No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 50" X 79.75"
Overall Unit: 49.25" X 79.25"
Room Location: 1-1, 1-9, 1-7

*All drawings are viewed from exterior of window.*
H3 Aluminum Clad Sliding Windows Single Slider Left/Fixed 35.75 x 20

Complete Unit, CoreGuard Plus
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black
Low-E, Argon Gas, Black Warm Edge Spacer, 3/4"

Applied Hdwe, Standard Lock, Hdwe = Oil Rubbed Forever Bronze, 1-Lock, Stainless Steel Rollers
Half Screen Applied, FlexScreen, View Clear Mesh
SDL, Equal, Traditional, 5/8", Exterior = Hartford Green 050, Primed Interior, White, Pine Interior, w/ Shadow Bar, Shadow Bar Color = Dark Bronze Anodized, 2W2H, Grille Type Custom
No Nail Fin

Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 36.25" X 20.5"
Overall Unit: 35.75" X 20"
Room Location: ATTIC

*All drawings are viewed from exterior of window.*
Monument Windows Single Hung Operating 39.5 x 61.5

Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black, Top Sash Attached by L-Bracket
Low-E 366 W/i89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer

Applied Hdwe, Standard Lock, Hdwe = Oil Rubbed Forever Bronze, 2-Locks, Finger Lift Handles = Shipped Separately, Oil Rubbed Forever Bronze
Half Screen Applied, FlexScreen, View Clear Mesh

No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Aluminum Clad Wood Windows Awning Operating 35.5 x 23.5

Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior, Standard Frame
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black
Low-E 366 W/i89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer
With Unit, Hdwe = Oil Rubbed Forever Bronze, 18" Hinge, With Sash Lock
Full Screen Applied, White, View Clear Mesh

No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

* All drawings are viewed from exterior of window.
Aluminum Clad Wood Windows Awning Fixed 23.5 x 23.5

Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior, Standard Frame
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black
Low-E 366 W/i89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer

No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 24.25" X 24"
Overall Unit 23.5" X 23.5"
Room Location: B-3

Monument Windows Single Hung Operating 36 x 60

Complete Unit, CoreGuard Plus
Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior
Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black, Top Sash Attached by = L-Bracket
Low-E 366 W/i89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer

Applied Hdwe, Standard Lock, Hdwe = Oil Rubbed Forever Bronze, 1-Lock, Finger Lift Handles = Shipped Separately, Oil Rubbed Forever Bronze
Half Screen Applied, FlexScreen, View Clear Mesh

No Nail Fin
Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set

Rough Opening: 36.75" X 60.5"
Overall Unit 36" X 60"
Room Location: B-5, B-8

*All drawings are viewed from exterior of window.*
## Line 900-1

**Description:** Aluminum Clad Wood Windows Awning Fixed 24.5 x 18

- **Complete Unit, CoreGuard Plus**
- **Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior, Standard Frame**
- **Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black**
- **Low-E 366, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer**
- **No Nail Fin**
- **Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set**

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**Rough Opening:** 25.25" X 18.5"

**Overall Unit:** 24.5" X 18"

**Room Location:** B-4

## Line 1000-1

**Description:** Monument Windows Single Hung Operating 33.5 x 89.25

- **Complete Unit, CoreGuard Plus**
- **Frame = Hartford Green 050, Clad Finish = AAMA 2604, Primed Interior, White, Pine Interior**
- **Sash = Hartford Green 050, Sash-Panel Clad Finish = AAMA 2604, Primed Interior, White, Sash-Panel Weatherstrip Color = Black, Top Sash Attached by = L-Bracket**
- **Low-E 366 W/i89, Traditional Bead, Capt Tube, No Argon Gas, Black Warm Edge Spacer**
- **Applied Hdwe, Standard Lock, Hdwe = Oil Rubbed Forever Bronze, 1-Lock, Finger Lift Handles = Shipped Separately, Oil Rubbed Forever Bronze**
- **Half Screen Applied, FlexScreen, View Clear Mesh**
- **No Nail Fin**
- **Jamb = Custom, 10, Match Interior Wood = Yes, Pine Jamb, Primed Interior, Jamb Extension Primed Color = White, Applied, Jamb Entire Set**

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**Rough Opening:** 34.25" X 89.75"

**Overall Unit:** 33.5" X 89.25"

**Room Location:** 1-3

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*All drawings are viewed from exterior of window.*
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*All drawings are viewed from exterior of window.*
Unless otherwise noted on the line item, this product is covered under a Sierra Pacific Windows limited warranty. Please see your dealer, the Website WWW.SIERRAPACIFICWINDOWS.COM or our marketing literature for a copy of the applicable limited warranty for specific language, limitations and exclusions.

All prices quoted are typically valid for 30 days. The quoted pricing is not final and is subject to revised price book releases and changes until the order has been submitted. Other exceptions may apply. Shop drawing charges are not included.

Sierra Pacific offers a variety of wood species produced in combinations of solid and veneer-wrapped wood parts that have varying grain patterns. Wood characteristics also vary due to the species of the wood. The combination of these items could result in color variations of the finished stained products. Outswing Doors will have a complementary species of wood threshold.

RATINGS
Oversized units and certain mulled/stacked configurations have not been tested and therefore have no performance grade(PG) rating. P.E. approved job-specific comparative analysis may be available for these non-rated units. Please contact your Inside Sales group to determine available options for non-rated product. A complete list of rated products is available at WWW.SIERRAPACIFICWINDOWS.COM

The Vinyl replacement products do not have a PG rating.

If units are being installed in an area requiring specific PG ratings the unit must be installed in the exact manner tested as shown in our certified installation details. These details can be found on the Florida Building Code website at www.floridabuilding.org or can be obtained by contacting Sierra Pacific’s Architectural Services Department at 800-433-4873 ext. 1734.

Recent building code changes require the addition of limiting devices on any operating unit installed where the finished clear opening of the unit is within 24” of the floor and is more than 72” above the finished grade or other surface below the window. Please check with your local building department to determine if this code is a requirement in your jurisdiction and order units accordingly.

No Warranty for panel warpage without Multipoint hardware or Double Bore with Tru-Lock.

THERMAL PERFORMANCE
This quote may contain glazing options that include coating ‘i89’. These glazing options may have an increased risk of room side glass condensation in areas where the winter outdoor temperatures are below freezing (32°F/0°C).

We Appreciate Your Business!
Monument Double Hung

Shown with 2" Aluminum Brick Mould
w/Standard 3/4" Aluminum Sill Nosing

Note: Thru Frame Installation Is Required

Note: Sierra Pacific Windows reserves the right to change specifications without notice.

www.sierrapacificwindows.com
800-824-7744
**BASIC UNIT FRAME HEIGHT = GLASS + 6.875"**

**SASH HEIGHT = BASIC UNIT HEIGHT - 3.875"**

**SASH WIDTH = BASIC UNIT WIDTH - 2.375"**

**ROUGH OPENING WIDTH**

1/4" [6]

**ROUGH OPENING HEIGHT**

1/4" [6]

**JAMB DETAIL**

**MONUMENT CLAD SINGLE & DOUBLE HUNG PICTURE WINDOW**
Monument Aluminum Wood
Single & Double Hung Picture Windows, Fixed
with Ovalo Brick Mould w/ 7/8" SDL

Head, Sill & Jamb Details
Page 1 of 1
Drawn to Full Scale
Printed to 4" = 1' Scale
Monument Aluminum Wood
Single & Double Hung Picture Sash

HEAD DETAIL

JAMB DETAIL

SILL DETAIL

EXTERIOR


2" [52]
Monument Aluminum Wood
Single Hung Windows, Operating

Head, Sill & Jamb Details
Page 1 of 3
Drawn to Full Scale
Printed to 4" = 1' Scale

HEAD DETAIL
MONUMENT CLAD
SINGLE HUNG WINDOW

MEETING RAIL DETAIL
MONUMENT CLAD
SINGLE HUNG WINDOW

SILL DETAIL
MONUMENT CLAD
SINGLE HUNG WINDOW

FACTORY APPLIED
ALUMINUM DRIP NAIL FIN

FACTORY APPLIED
STANDARD NAIL FIN
AT SILL

OPTIONAL SASH FINGERLIFT

EXTERIOR
Head, Sill & Jamb Details

Page 2 of 3

Drawn to Full Scale
Printed to 4" = 1' Scale

Monument Aluminum Wood
Single Hung Windows, Operating

EXTERIOR

4 9/16" [117]
5 11/16" [144]

JAMB

1/4" PLATE MULL DETAIL
MONUMENT CLAD SINGLE HUNG WINDOW
MULLED TO SINGLE HUNG WINDOW

MULL DETAIL
MONUMENT CLAD SINGLE HUNG WINDOW

MULL DETAIL
MONUMENT CLAD SINGLE HUNG WINDOW

JAMB DETAIL
MONUMENT CLAD SINGLE HUNG WINDOW

JAMB DETAIL
MONUMENT CLAD SINGLE HUNG WINDOW
Monument Clad Springline Single Hung

Scale: 4" = 1'

Note: Sierra Pacific Windows reserves the right to change specifications without notice.

www.sierrapacificwindows.com
800-824-7744
Monument Clad Springline Single Hung

Elevation Shown from Exterior

Scale: 4" = 1'

Note: Sierra Pacific Windows reserves the right to change specifications without notice.
Materials

Aluminum Clad Wood
The best of both worlds, combining beautiful wood inside with low maintenance aluminum cladding outside. Wood is select pine, or upgrade to one of eight other species, all protected by CoreGuard Plus® wood preservative. Double thick cladding is finished with a powder coating process that leads the industry in durability and environmental safety.

Five Beautiful Choices, One Exacting Standard.

All-Wood
For a classic, distinctive look, our all-wood windows and patio doors offer timeless elegance with exceptional thermal performance. As with all our wood products, long-term durability is ensured by CoreGuard Plus®, a leading wood treatment against rot and insects.

H3®
Innovative Fusion Technology™ integrates three components (extruded aluminum, vinyl and wood) into one perfect window with greater energy efficiency and performance. Double thick aluminum exteriors are protected by our industry-leading powder coated finishes, while the wood interior is preserved with CoreGuard Plus®.

FeelSafe™
Our hurricane-resistant windows and patio doors feature high strength, laminated glass, plus highly reinforced engineering and construction. They’re built to withstand heavy storm impact as well as determined burglars.

Vinyl
All the benefits of vinyl windows and patio doors with Sierra Pacific DNA, our vinyl new construction and replacement products offer many of the same features and design options as our premium wood products. Choose from a complete lineup of operating styles, sizes and shapes.

Sierra Pacific windows and doors are crafted in four unique manufacturing styles. Each delivers its own design and performance advantages. In other words, there are no bad choices, only good ones.
Wood interior for natural beauty & insulation. Sierra Pacific clad windows and doors feature interiors with industry-leading, extruded aluminum cladding that’s twice as thick as roll-form cladding. All come with rich, wood interiors in a wide selection of species and finishes.

Beautiful Inside, Low Maintenance Outside.

Choose from multiple finishing-edge glazing options. Also available with premium impact-rated glazing.

- Wood interiors in a wide selection of species and finishes.
- Optional stained or painted interior factory-finished options available.
- Dual or triple pane, plus decorative glazing options.
- Exterior is fully encased in weatherproof, low-maintenance, aluminum cladding.
- Unlimited color choices in powder coat for exterior durability. Acid-etched glass also available.
- Our heavy-duty extruded aluminum cladding is at least twice as thick as roll-form cladding.
- Windows and doors offered in pine and Douglas-fir are third-party certified to meet the AAMA testing requirements.

Beautiful Inside, Low Maintenance Outside. Windows and doors crafted from pine and Douglas-fir are third-party certified to meet the AAMA testing requirements.

Windows and doors come with standard or custom grilles and hardware in many finishes. Available in dual-pane, triple-pane, and decorative glass options.

- Designer hardware in many luxurious finishes.
- Large variety of interior trim profiles.
- Unlimited color choices in powder coat for extreme durability.
- Anodized finishes also available.

Sierra Pacific clad windows and doors feature exteriors with industry-leading, extruded aluminum cladding that’s twice as thick as roll-form cladding. All come with rich, wood interiors in a wide selection of species and finishes.

Protected to the very core by our EverGuard Plus™ wood treatment.
The exteriors of our clad windows and doors are fully encased in low-maintenance, heavy-duty, extruded aluminum that’s at least twice as thick as roll-form cladding. What’s more, our finishing process leads the industry in durability and environmental safety. Non-hazardous AAMA 2604 and 2605 powder coatings have the color retention, surface hardness and scratch resistance necessary to withstand even the harshest conditions.

As for colors? Nobody gives you more choices than Sierra Pacific. 75 colors and some sensational textures allow you to add warmth, a splash of cheerfulness or a new statement to your designs. We’ll also custom match any color you choose.

See your local representative for actual cladding samples. Printing limits our ability to show colors precisely.

***Available on select products only. Pricing may vary by collection.***
RICH, LUXURIOUS, THE NATURAL BEAUTY OF WOOD.

The hand-crafted appeal of real wood gives window interiors and trim a finishing touch that adds warmth and authenticity to any room. Yet every room is different, so we offer nine beautiful species of wood to match or complement any design consideration.

Don't see the perfect wood here? No worries. As long as it's workable, we'll make your interiors out of almost any wood in the world.

Wood Species/Trim

- Maple
- Alder
- Mahogany
- Cherry
- Douglas Fir
- Red Oak
- Walnut
- White Oak
- Pine

Shown: H3 Casement with 2" Brickmould Accessory Frame

Rosettes. Available in 2.5" or 3.5" sizes in matching wood species.

Heritage II             Traditional        Contemporary
Colonial                     Regal                   Provincial              Tudor                    Heritage

Prairie                   Tradesman            Tradesman II           Craftsman           Continental
Shown in pine               Shown in oak                 Shown in pine                  Shown in oak              Shown in oak
3-1/2" wide                    3-1/2" wide                     3-1/2" wide                       3-1/2" wide                 3-1/2" wide
Shown in oak                     Shown in pine             Shown in oak                 Shown in pine              Shown in oak
2-3/4" wide                         2-1/4" wide                  2-1/4" wide                    2-1/4" wide                   2-3/4" wide

Choose from multiple widths.

1.25" Flat Casing (Field Apply)
1.5" Flat Casing (Field Apply)
1.5" Flat Casing (Field Apply)
2.5" Brickmould (Field Apply)
1.25" Flat Casing (Field Apply)
2.5" Brickmould (Field Apply)
2.5" Brickmould (Field Apply)

Available in multiple widths.

Exterior Trim Profiles. See our national showroom vary per product line.

Group A
2.5" Flat Casing (Field Apply)
1.5" Flat Casing (Field Apply)
2.5" Flat Casing (Field Apply)
1.25" Flat Casing (Field Apply)

Group B
1.25" Flat Casing (Field Apply)
1.5" Flat Casing (Field Apply)
1.5" Flat Casing (Field Apply)
2.5" Brickmould (Field Apply)
2.5" Brickmould (Field Apply)
2.5" Brickmould (Field Apply)

See our local representatives for actual wood samples. The rich natural wood beauty is unique and can be enhanced with custom finishing. Woodtone swing may be used on interior components in certain species.

Maple
Alder
Mahogany
Cherry
Douglas Fir
Red Oak
Walnut
White Oak
Pine

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Shown in oak                     Shown in pine             Shown in oak                 Shown in pine              Shown in oak
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1.5" Flat Casing (Field Apply)
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Group A
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1.5" Flat Casing (Field Apply)
2.5" Flat Casing (Field Apply)
1.25" Flat Casing (Field Apply)

Group B
1.25" Flat Casing (Field Apply)
1.5" Flat Casing (Field Apply)
1.5" Flat Casing (Field Apply)
2.5" Brickmould (Field Apply)
2.5" Brickmould (Field Apply)
2.5" Brickmould (Field Apply)

See our local representatives for actual wood samples. The rich natural wood beauty is unique and can be enhanced with custom finishing. Woodtone swing may be used on interior components in certain species.
State-Of-The-Art Factory Finish.

We invest in the finest finishing equipment for one reason—to bring you the best wood stain and paint coatings in the industry. Choose from two premium options: Ultra Stain and Ultra Coat.

Ultra Stain is an advanced, multi-step process that brings out all the beauty of your wood interior. Ultra Coat is a white or black durable interior paint. Both resist scratching and marring while providing advanced protection against moisture.

Ultra Stain

- Clear
- Espresso
- Toffee

Ultra Coat

- White
- Black

Factory finishes available on select products. Ask your sales representative for details.
Glazing Technology
Fine-Tuned For You.

The right glass will make your home more comfortable and potentially improve your energy efficiency. It can capture the sun’s heat, or reflect it. You can also reduce outside noise, block more of the sun’s damaging UV rays, even enhance your privacy.

We offer some of the most advanced glazing options in the industry. With your builder, we’ll help you select the glass that suits you and your environment.

### The Advantage Of No-Metal Spacers

One of the technological advances that makes our glazing perform so well is our patented No-Metal™ Edge spacers. Many window manufacturers use aluminum spacers between the panes of glass. These conduct cold and heat, and that’s not good for thermal performance.

Our non-metal spacers are 100% polymer structural foam, for excellent thermal performance and a superior seal.

![No-Metal™ Edge Spacer](image)

### The Right Glass

The right glass will make your home more comfortable and potentially improve your energy efficiency. It can capture the sun’s heat, or reflect it. You can also reduce outside noise, block more of the sun’s damaging UV rays, even enhance your privacy.

We offer some of the most advanced glazing options in the industry. With your builder, we’ll help you select the glass that suits you and your environment.

### Performance Glass

- **Low-E 366**
  - Cardinal’s triple layer silver product for superior performance. 95% UV protection. Solar heat gain coefficient of 0.27. *Also available with Preserve® protective film or with Preserve and Neat® coating for a naturally cleaner glass when selecting XL Edge or Endur Spacer.*

- **Low-E 340**
  - With i89 coating, also known as surface #4, applied to the interior (room-side surface) of a dual pane IG unit, resulting in improved thermal performance and lower heating costs. Because the coating reflects heat back into the room, the room-side pane of glass will be slightly colder in winter, causing a higher potential for interior condensation.

- **Low-E 180**
  - Cardinal’s newest glazing innovation. It has an amazingly low 0.18* solar heat gain coefficient to keep out the heat even in the blazing sun. Slightly tinted. Blocks 98% of UV rays. Solar heat gain when in the sun, and the best glass control under the sun. *Also available with Preserve® protective film or with Preserve and Neat® coating for a naturally cleaner glass when selecting XL Edge or Endur Spacer.*

- **Dual Pane Low-E**
  - The same superior performance as regular Low-E 366 (above), but with the addition of i89 coating on the interior surface to increase insulating value. Meets even the most extreme requirements in the majority of the Canadian Energy Star zones. *Also available with Preserve® protective film or with Preserve and Neat® coating for a naturally cleaner glass when selecting XL Edge or Endur Spacer.*

- **Triple Pane Low-E**

- **Insulated Glass**
  - Reduces outside noise by as much as 30% while blocking 84% of damaging UV rays. Laminated for shatter resistance. Available insulated or non-insulated.

- **Footsafe™ Insulated Low-E**
  - Protect your home and our sea turtle population. FeelSafe windows and patio doors are engineered inside and out to resist hurricane-force winds, pounding rain, wind-borne debris, and rapid pressure changes that could implode your home or literally blow off the roof. Available in Low-E, Low-E 366 or Low-E 340.

- **Footsafe™ Laminated Low-E**
  - For moderate climates, our non-insulated, shatter-resistant FeelSafe glass provides the utmost security — whether your concern is severe storms or intruders. Also available in Low-E 366 or Low-E 340.

**All values shown are center of glass.**

*Interior surface coatings, also known as surface #4, are applied to the interior (room-side surface) of a dual pane IG unit, resulting in improved thermal performance and lower heating costs. Because the coating reflects heat back into the room, the room-side pane of glass will be slightly colder in winter, causing a higher potential for interior condensation.

*The same superior performance as regular Low-E 180 above, but with the addition of i89 coating on the interior surface to increase insulating value. Meets even the most extreme requirements in the majority of the Canadian Energy Star zones. Also available with Preserve® protective film or with Preserve and Neat® coating for a naturally cleaner glass when selecting XL Edge or Endur Spacer.*

*Cardinal’s newest glazing innovation. It has an amazingly low 0.18* solar heat gain coefficient to keep out the heat even in the blazing sun. Slightly tinted. Blocks 98% of UV rays. Solar heat gain when in the sun, and the best glass control under the sun. Also available with Preserve® protective film or with Preserve and Neat® coating for a naturally cleaner glass when selecting XL Edge or Endur Spacer.*

*For moderate climates, our non-insulated, shatter-resistant FeelSafe glass provides the utmost security — whether your concern is severe storms or intruders. Also available in Low-E 366 or Low-E 340.*

*90% solar heat gain coefficient. Double-surface coating. Also available in Low-E 366.**

*Also available with Preserve® protective film or with Preserve and Neat® coating for a naturally cleaner glass when selecting XL Edge or Endur Spacer.*

*Vehicle noise outside residential buildings due to road traffic noise. 2 Way Sound Control™: Two-way communication between the two glass panes. The interior pane of glass will be slightly colder in winter, causing a higher potential for interior condensation.*

*Cardinal’s triple layer silver product for superior performance. 95% UV protection. Solar heat gain coefficient of 0.27. Also available with Preserve® protective film or with Preserve and Neat® coating for a naturally cleaner glass when selecting XL Edge or Endur Spacer.*
**Historic Accuracy, Stunning Performance.**

Our Monument single & double hung clad exterior windows are designed and built for architectural and light commercial applications. True, they have superior structural performance, but it’s their fine craftsmanship and attention to detail that homeowners appreciate.

With no unsightly jambliners inside or out, Monument single & double hung windows frame your view with the natural beauty of real wood interiors. They’re ideal for historic renovations, but come in a wide assortment of options to fit any home style.

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**Modern Improvements**

Monument classically styled window hardware comes in a variety of beautiful finishes and features single or dual locks to ensure a secure, energy-efficient seal.

**Other Monument styles.**

- Oil Rubbed Bronze
- Forever Bronze
- Nickel Bronze
- Antique Brass
- Burnished Brass
- White
- Matte Black
- Arched Single or Double Hung

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**Convenient Sash Design**

Side load bottom sash removes for easy cleaning.

**Exterior Trim**

Group A on page 17

Shown: 3.5” Brickmould

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**Beautiful Finishes**

- Full Radius Single Hung
- Full Radius Double Hung
- Arch Single Hung
- Arch Double Hung
- Palladian Single Hung
- Palladian Double Hung

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**Exceptional Commercial Design**

Monument windows are available in full radius or arched for a truly dramatic architectural look.
A Warranty As Tough As The Products It Guarantees.

Sierra Pacific Windows and Doors are backed by our fully transferable 30/20 Limited Warranty (20/10 for commercial products). It provides 30 year residential AAMA 2605 clad exterior coating coverage, 20 year insulated glass coverage, 10 year parts coverage, 2 year labor coverage, and 10 year AAMA 2604 clad exterior coating coverage. For warranty specifics, please refer to SierraPacificWindows.com.