



H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out

Features

- ◇ **Material**
 - Extruded Aluminum
- ◇ **Commercial Framing System**
 - 3 1/4" main frame
 - Historically-correct bevel frame exterior
 - Steel Replica appearance
 - Minimum of 0.080" wall thickness
 - Dual Euro Groove System
 - Available with or without integral nailing fin
- ◇ **Thermally Enhanced Design**
 - Thermally-broken main frame and vent rails
 - Azon pour and debridge thermal break technology
- ◇ **Glazing**
 - 1" insulating glass
- ◇ **Hardware**
 - Maxim LP Locking System, 4-Bar Hinge and Roto Hardware on Crank-Out/Roto model
 - Maxim LP Locking System, 4-Bar Hinge and Cam Turn Hardware on Push-Out model
- ◇ **Screen**
 - Easily removable FlexScreen on some operating models

Benefits

- ◇ Historically accurate profiles to help your project meet Historic Preservation codes
- ◇ The capacity to match exterior colors for unique project facades
- ◇ The ability to facilitate large sizes for taller and wider window openings

Performance

- ◇ Structural & Thermal (test reports or thermal simulations available upon request)

Model	H450 Project-Out
Test Size:	60" x 36"
NAFS Rating	Up to CW-90
Air Infiltration (cfm/ft ²)	<0.30
Water (No Penetration) P.S.F.	Up to 15
U-Value (ranges based on multiple Low-E/Argon combinations)	0.24-0.40
SHGC (ranges based on multiple Low-E/Argon combinations)	0.12-0.45
CR (ranges based on multiple Low-E/Argon combinations)	39-68

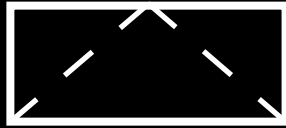
Due to periodic re-certification requirements, result shown may vary.

Options

- ◇ **Available Configurations**
 - Project-Out
 - Push Out or Roto
 - Continuous frame capabilities
 - Fixed
- ◇ **Floating Operator Available Configurations**
 - Multiple configurations of Fixed and Operating units with up to 5 units wide or 5 units tall, all within a continuous frame (*limitations apply*)
- ◇ **Muntin Choices**
 - Internal or simulated divided lites available
- ◇ **Hardware**
 - Limit Travel Accessories
- ◇ **Screen**
 - Wicket Screen (for Push-out model only)
- ◇ **Glazing**
 - Multiple Low-E and argon glazing choices
 - Capillary tubes
 - Wide variety of glazing, tinting and thickness options
- ◇ **Panning & Trim Choices**
 - Wide variety of panning, receptor and trim available
- ◇ **Mulling**
 - Wide variety of structural mulls

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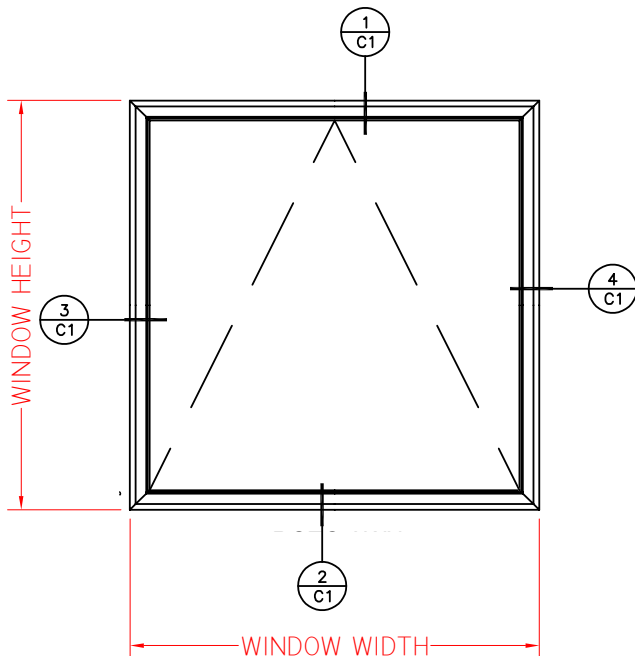
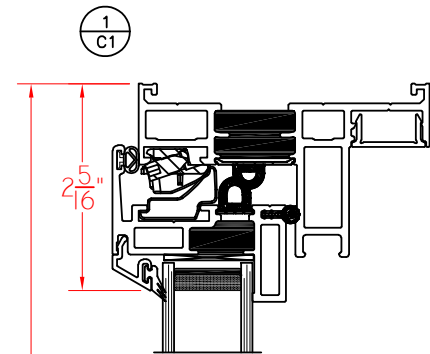
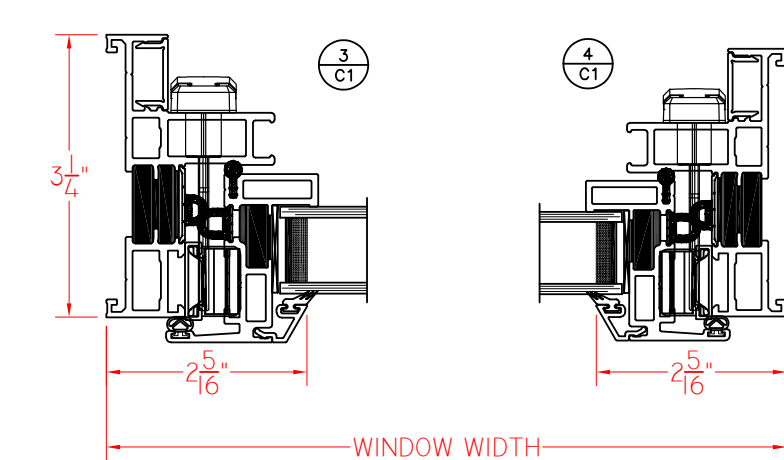


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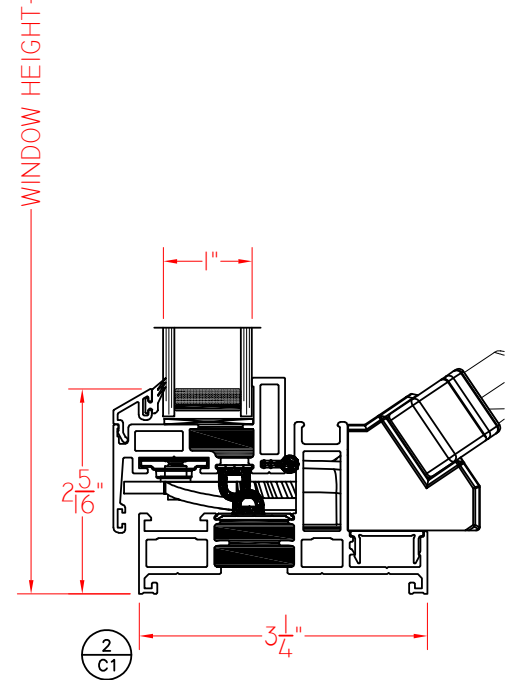
H450 Series Project-Out (Crank-Out)

With Roto Hardware and
Without Nailing Fin

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ELEVATION SCALE 3/4" = 1'-0"



SHEET C1
SCALE 1:2

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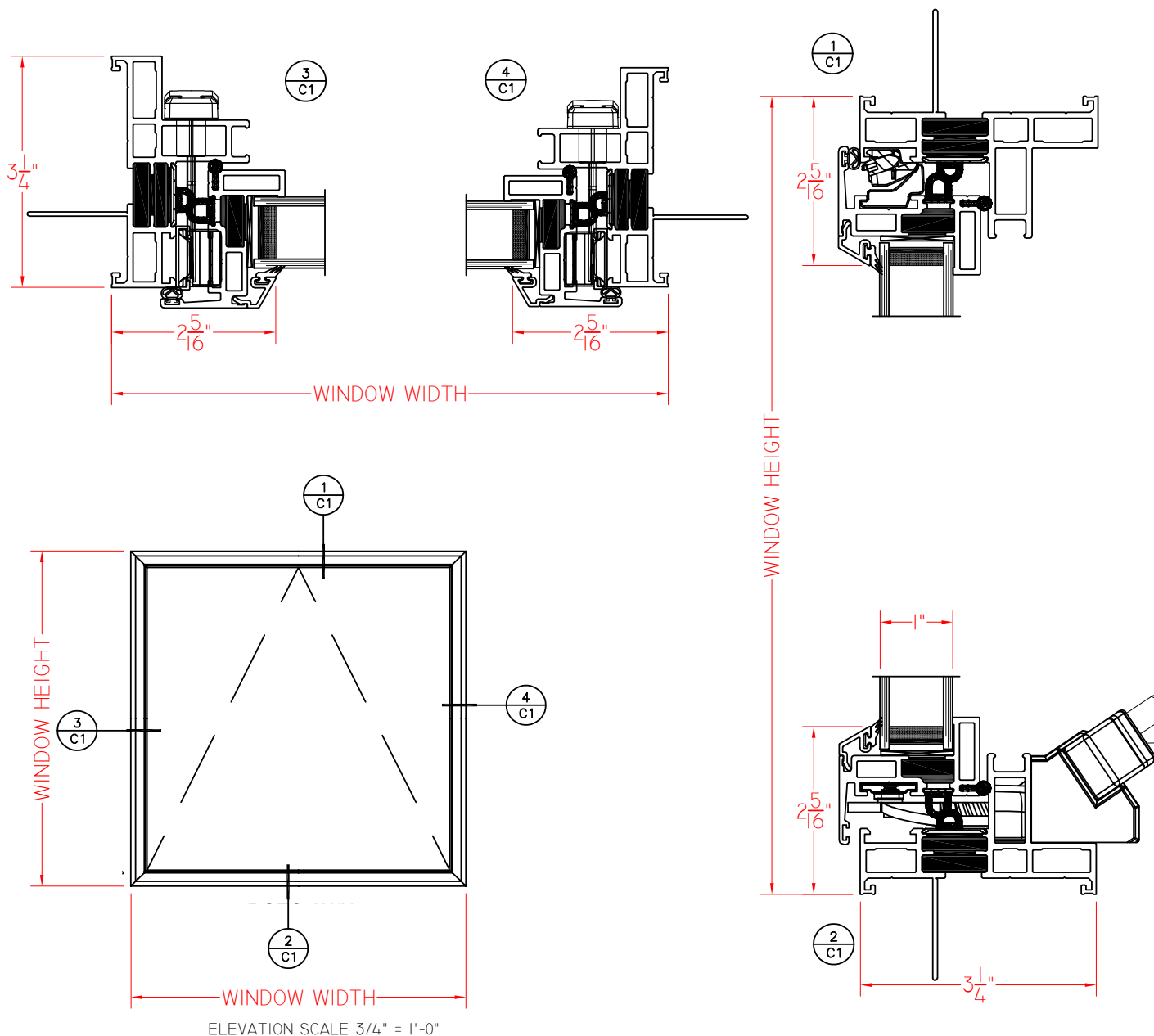


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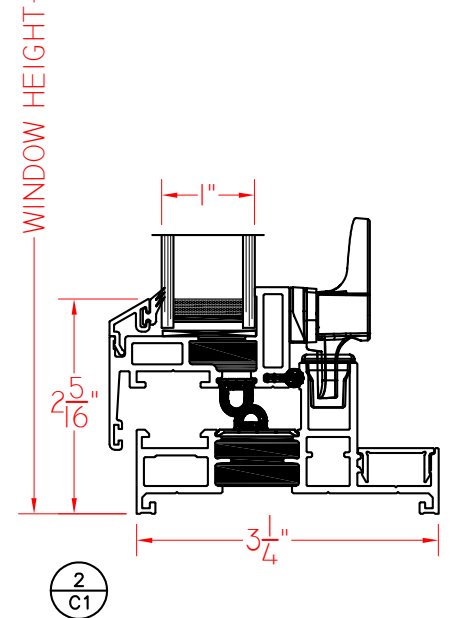
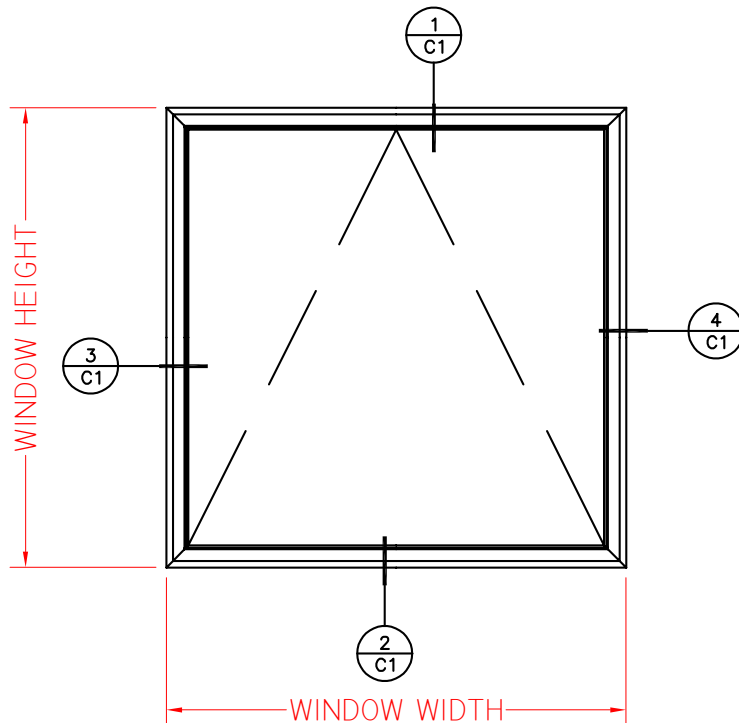
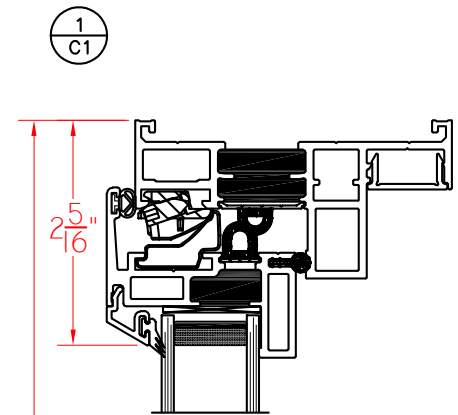
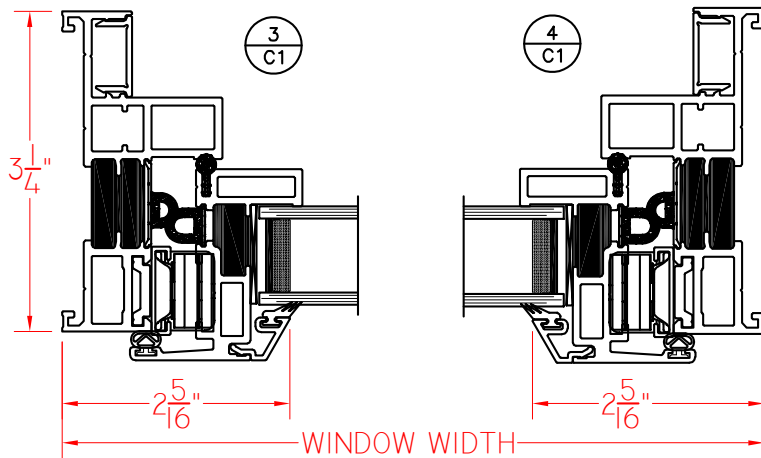


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out (Push-Out)

With Push-Out Hardware
and Without Nailing Fin

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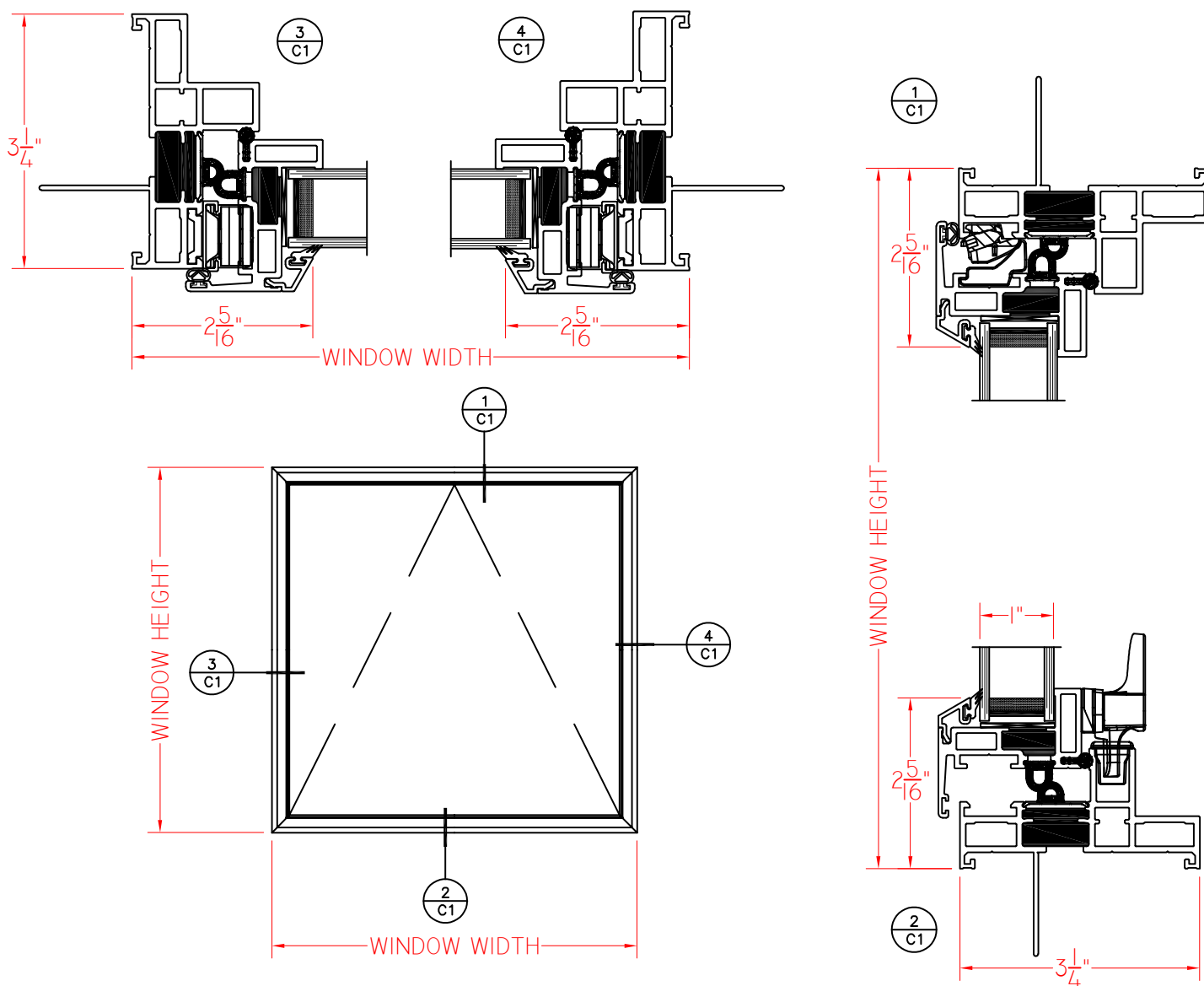


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H450 Series Project-Out (Push-Out)

With Push-Out Hardware
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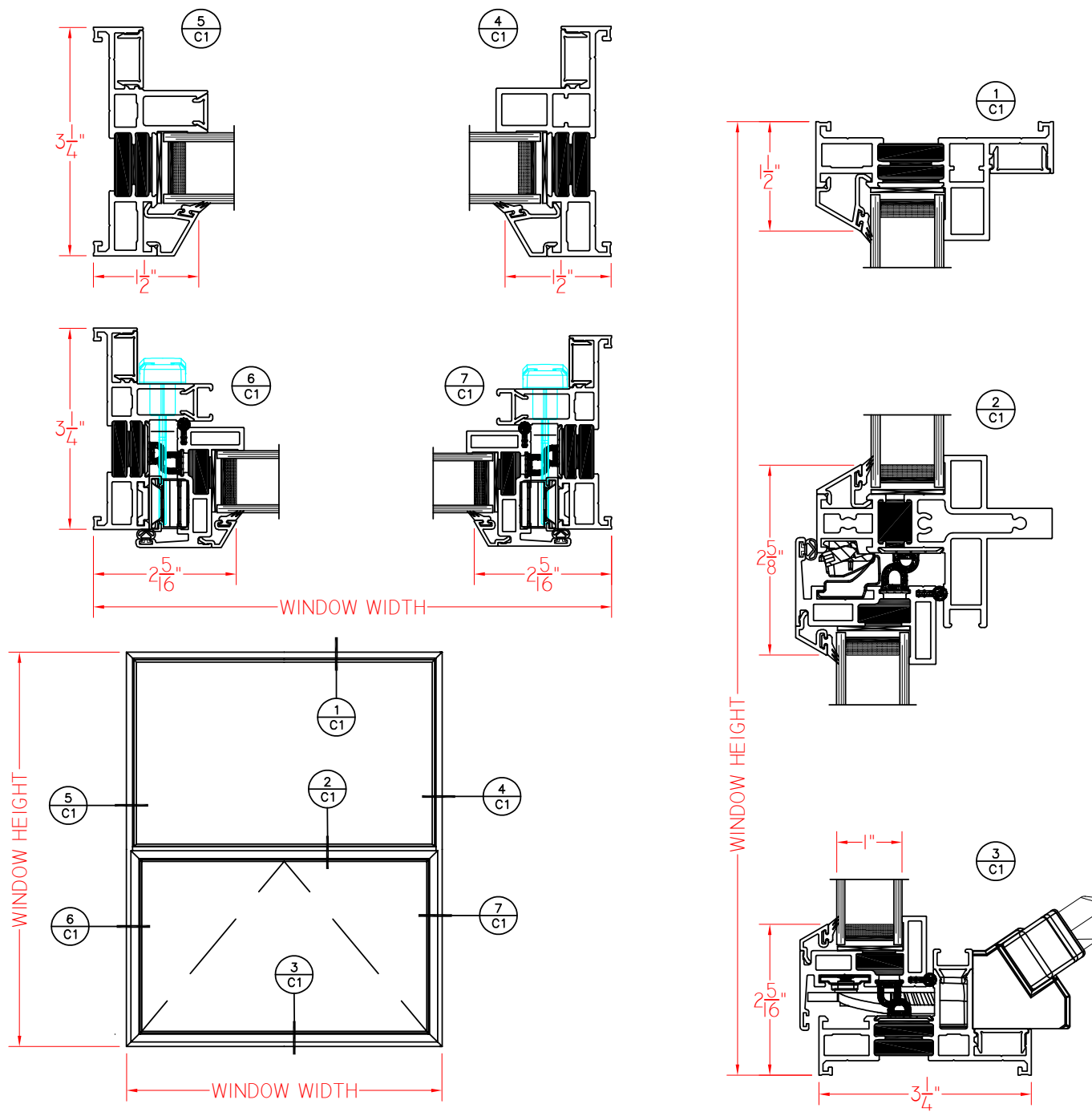


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out/Fixed

With Roto Hardware and
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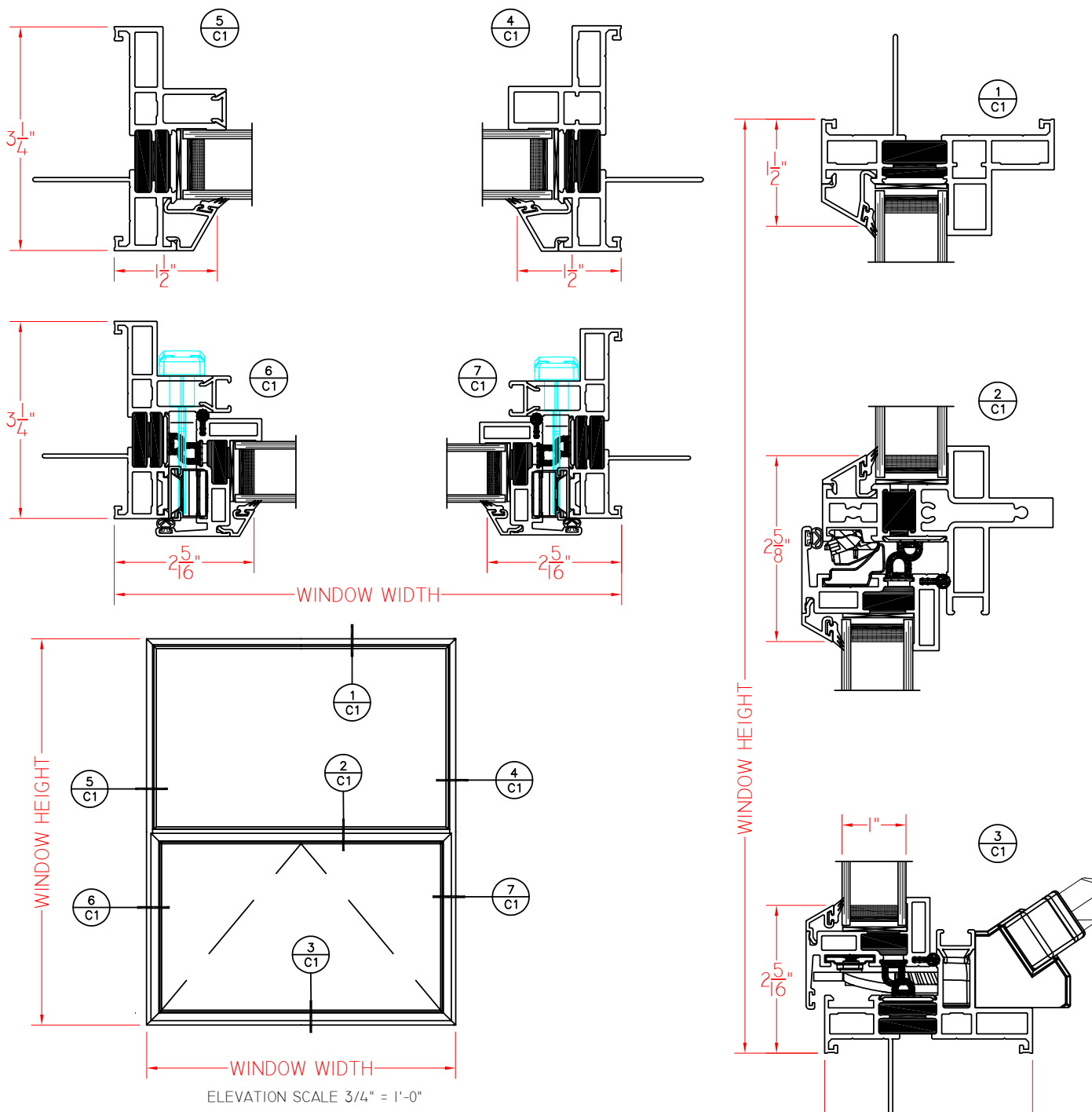


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out/Fixed

With Roto Hardware and
Nailing Fin

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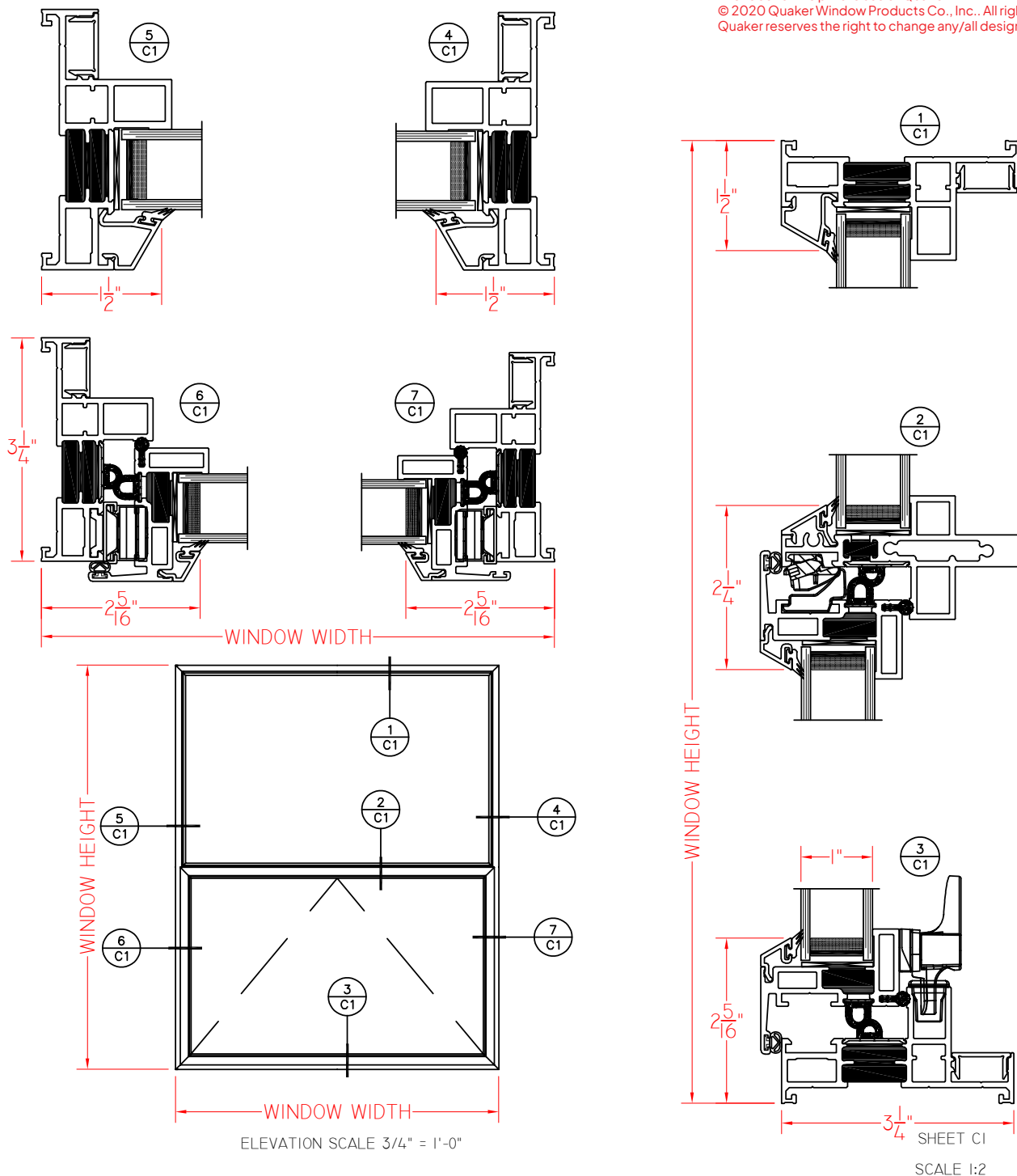


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out/Fixed

With Push-Out Hardware
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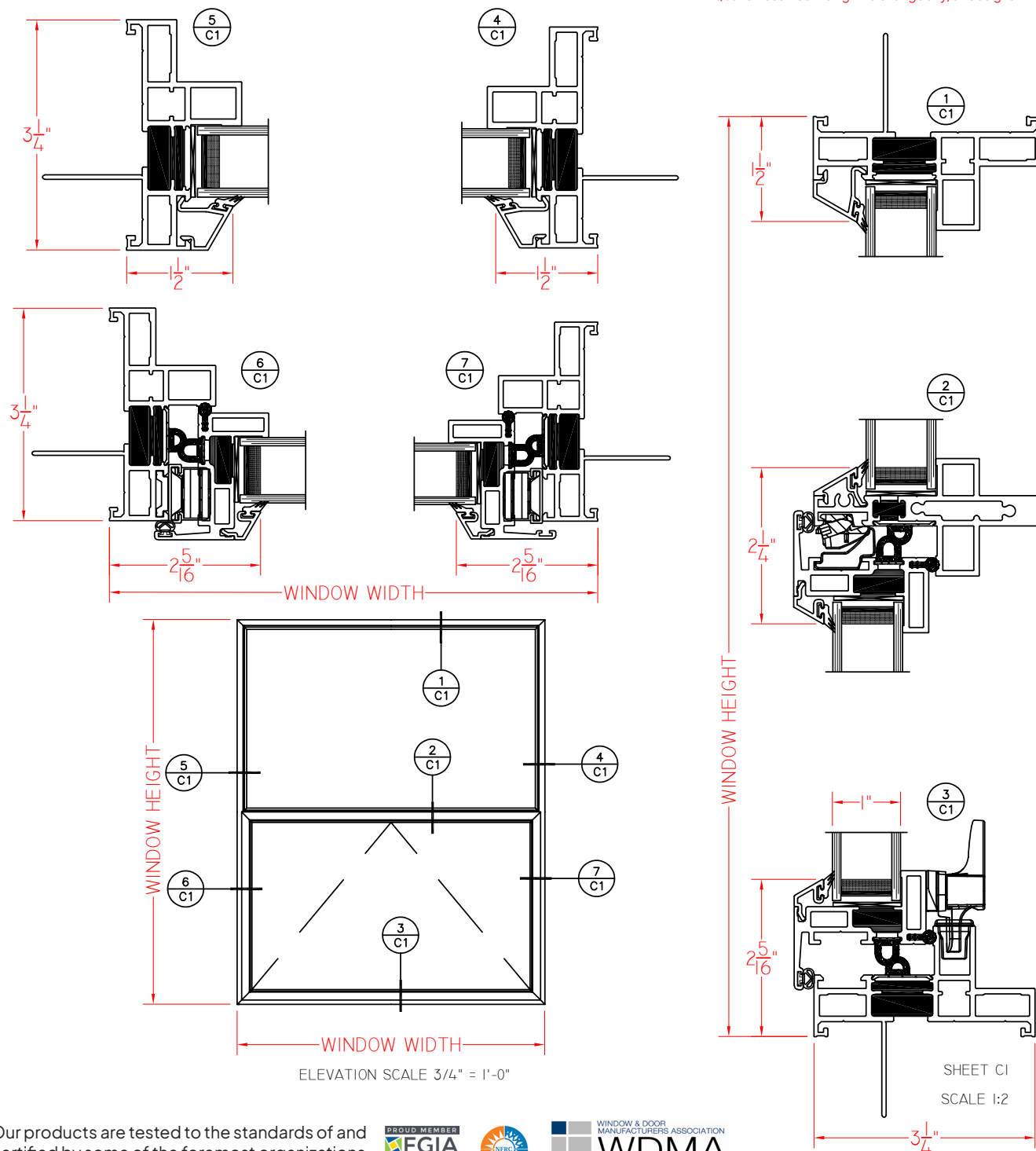




H450 Series Project-Out/Fixed

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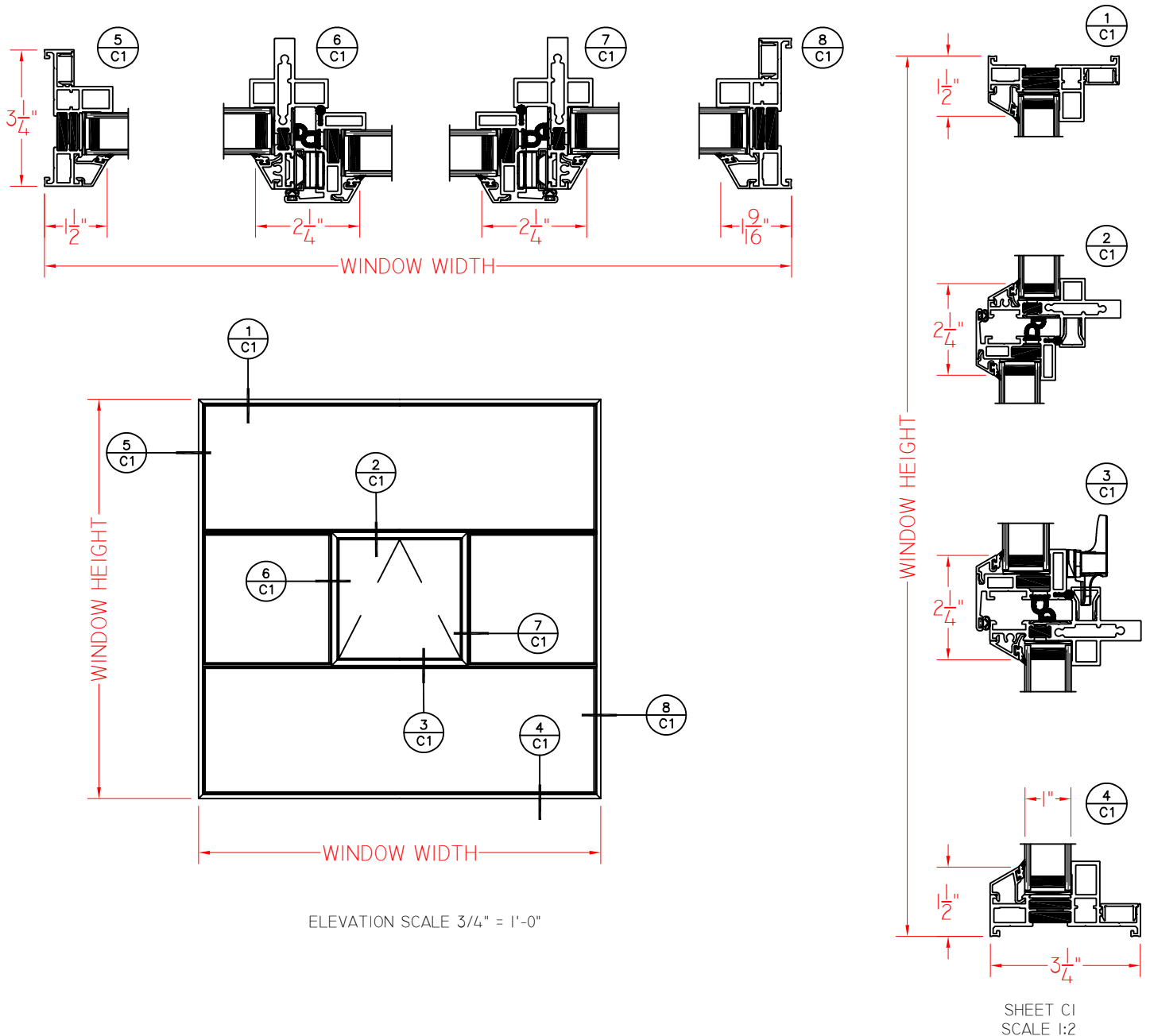




H450 Series 3 1/4" Frame Depth Floating Vent

H450 Series Floating Vent (Project-Out/Fixed)

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