



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.	12
U-Value (ranges based on multiple Low-E/Argon combinations)	0.39-0.59
SHGC (ranges based on multiple Low-E/Argon combinations)	0.12-0.58
CR (ranges based on multiple Low-E/Argon combinations)	33-63

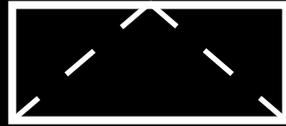
Due to periodic re-certification requirements, result shown may vary.

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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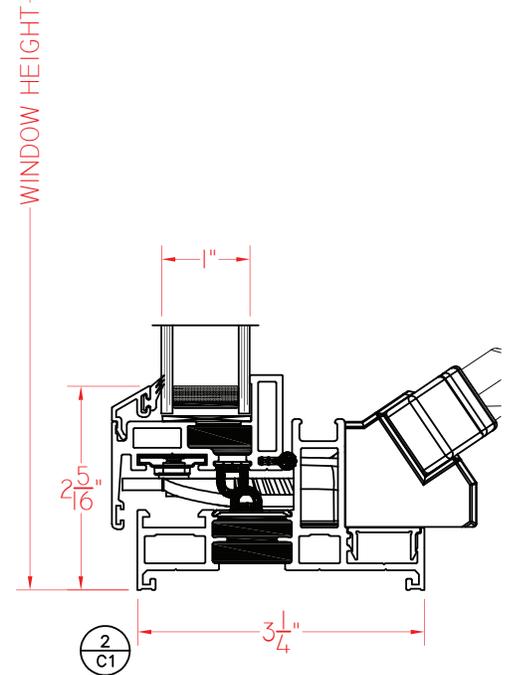
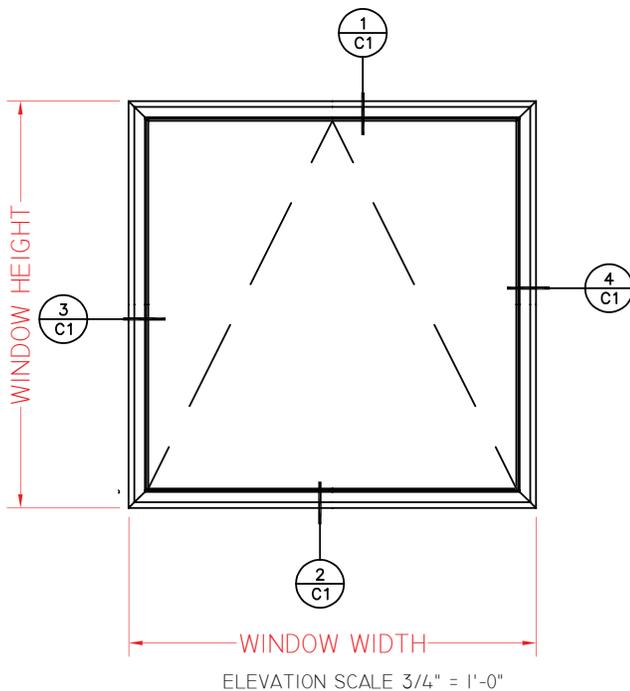
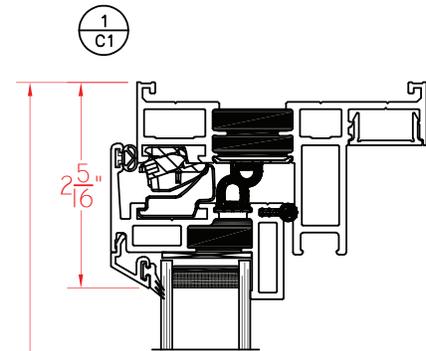
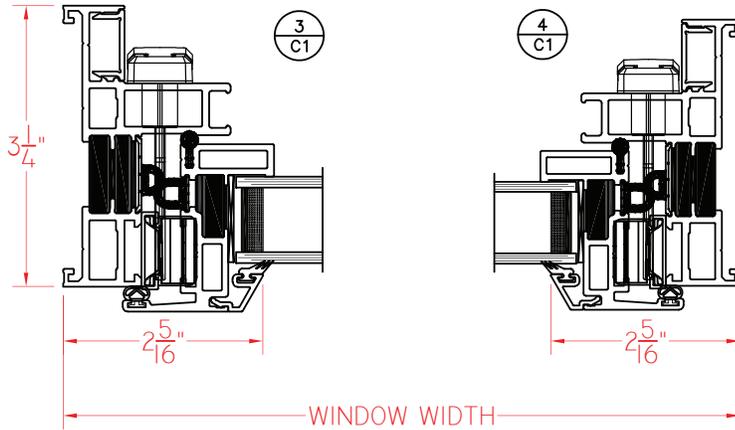


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out (Crank-Out)

With Roto Hardware and
Without Nailing Fin

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SHEET C1
SCALE 1:2

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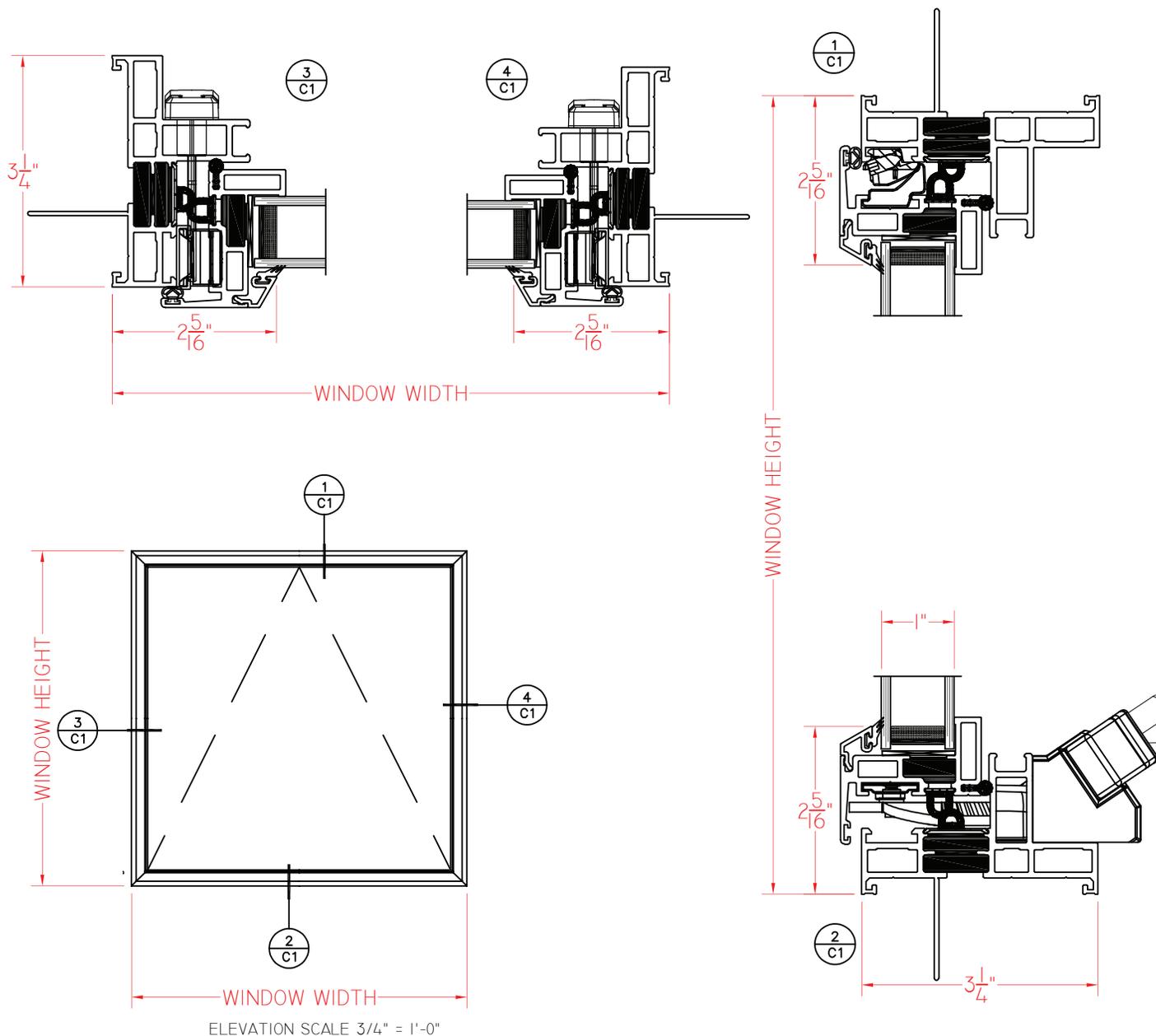


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out (Crank-Out)

With Roto Hardware and Nailing Fin

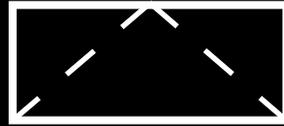
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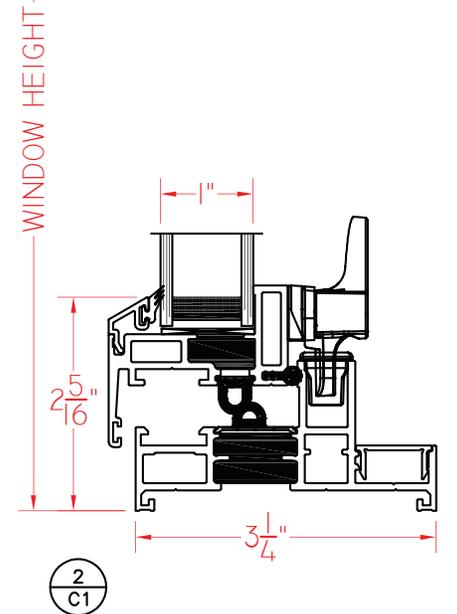
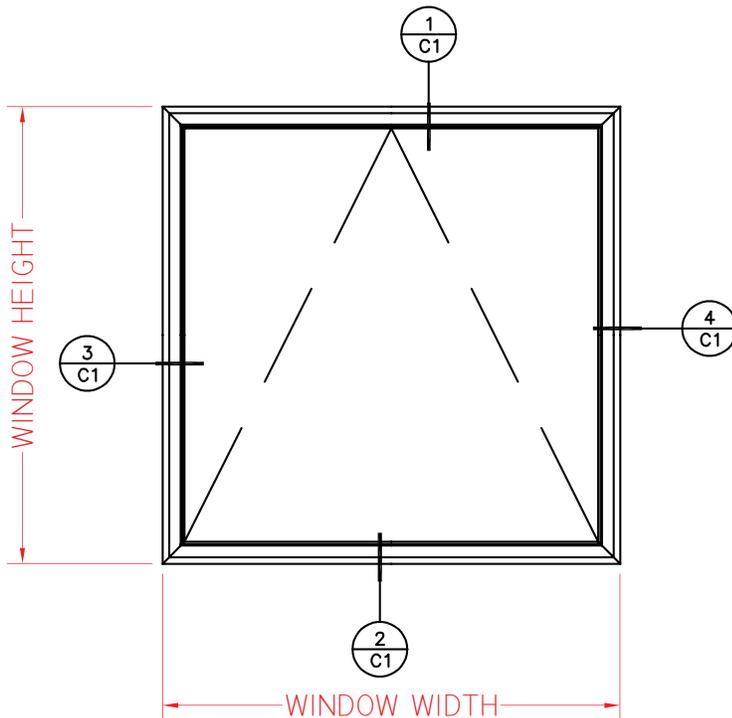
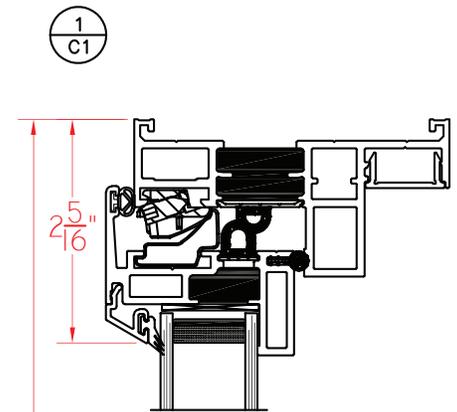
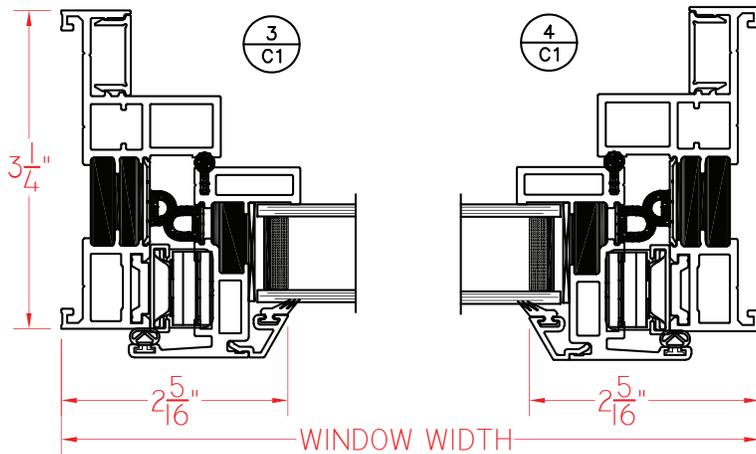


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out (Push-Out)

With Push-Out Hardware
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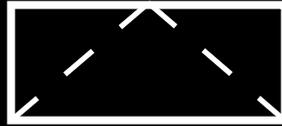


ELEVATION SCALE 3/4" = 1'-0"

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SCALE 1:2

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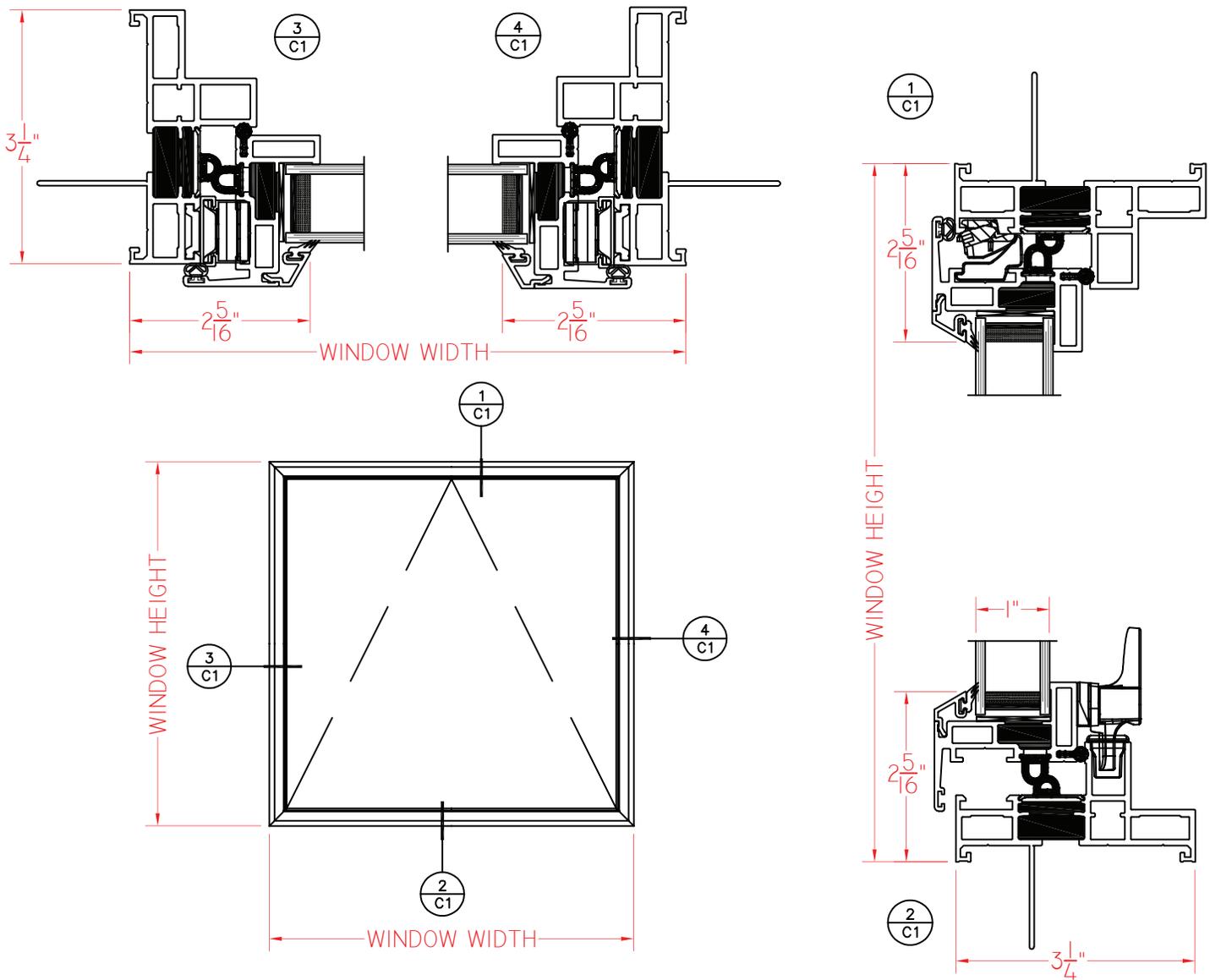


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out (Push-Out)

With Push-Out Hardware
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WINDOW WIDTH

WINDOW HEIGHT

WINDOW WIDTH

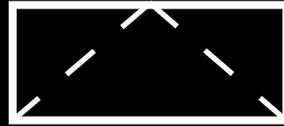
WINDOW HEIGHT

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

SHEET C1
SCALE 1:2

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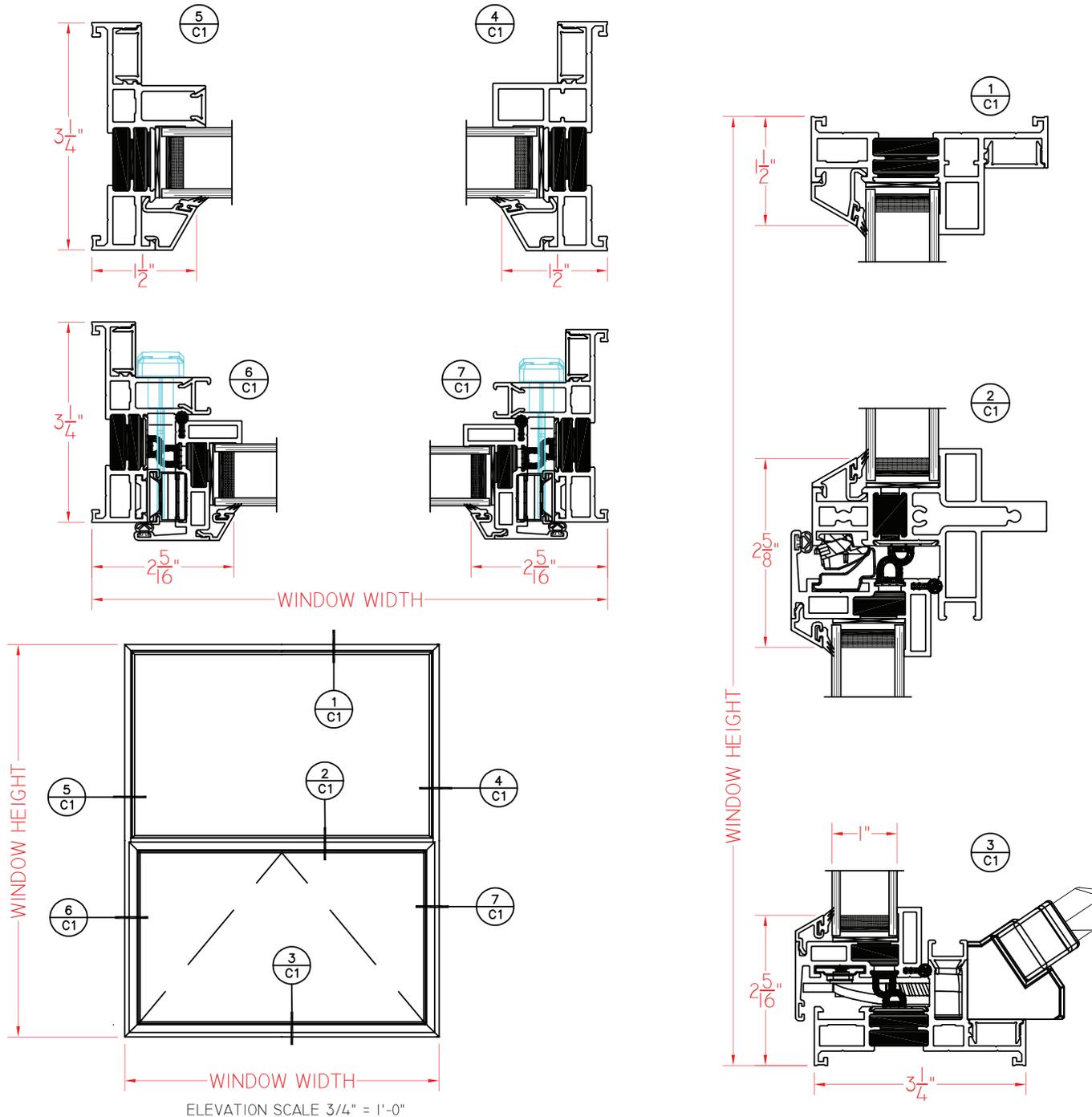


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out/Fixed

With Roto Hardware and
Without Nailing Fin

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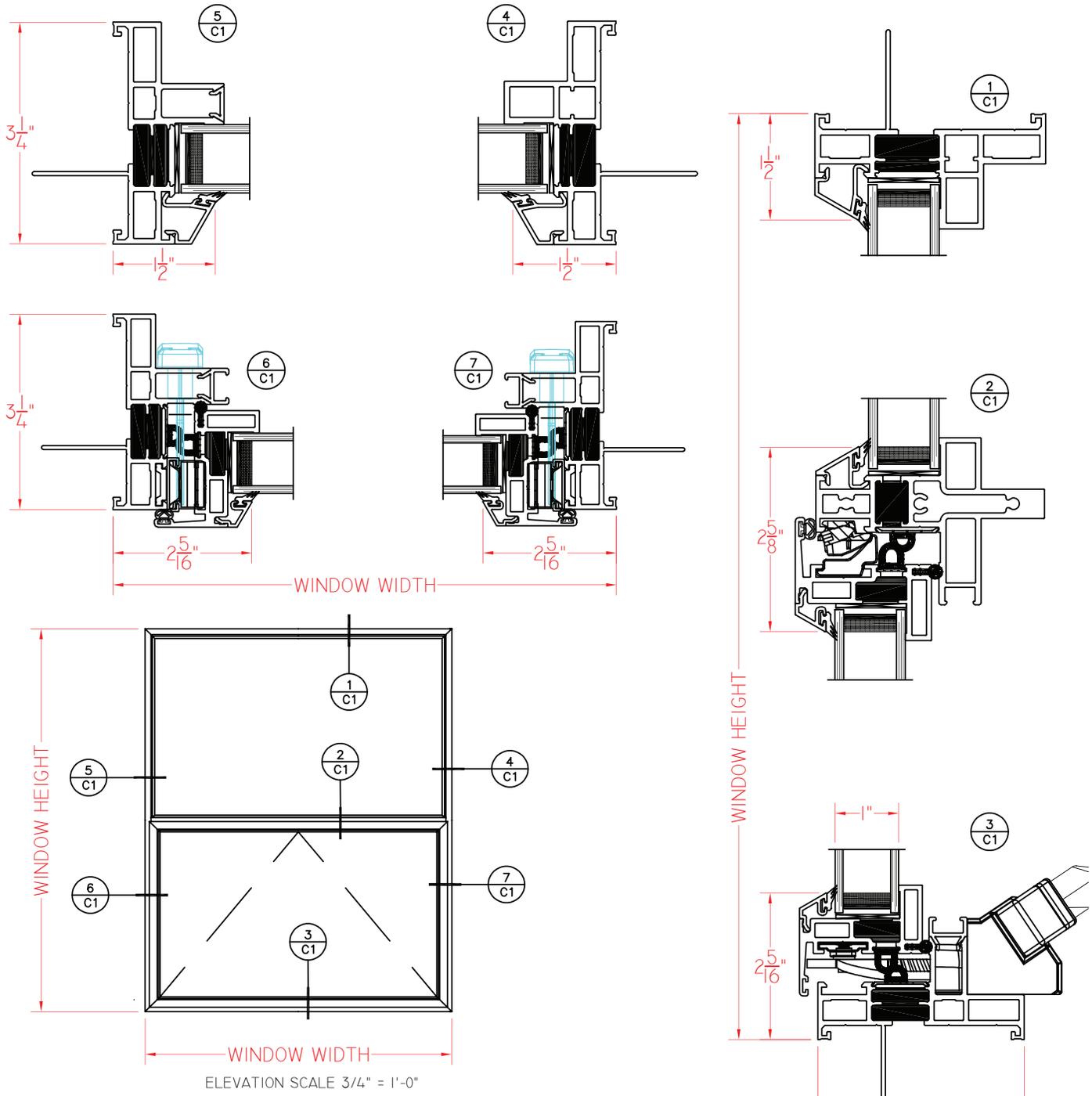


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out/Fixed

With Roto Hardware and Nailing Fin

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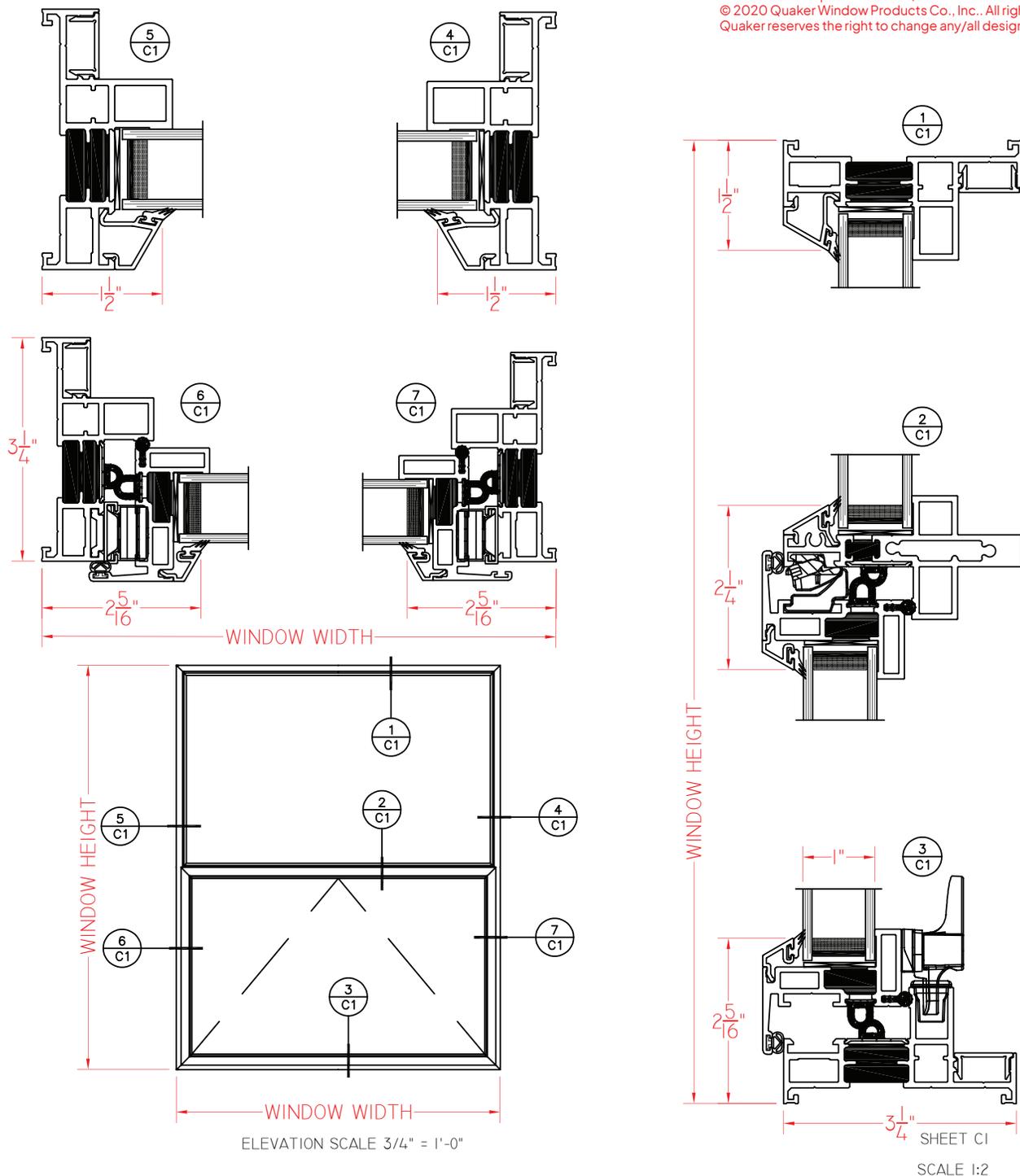


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out/Fixed

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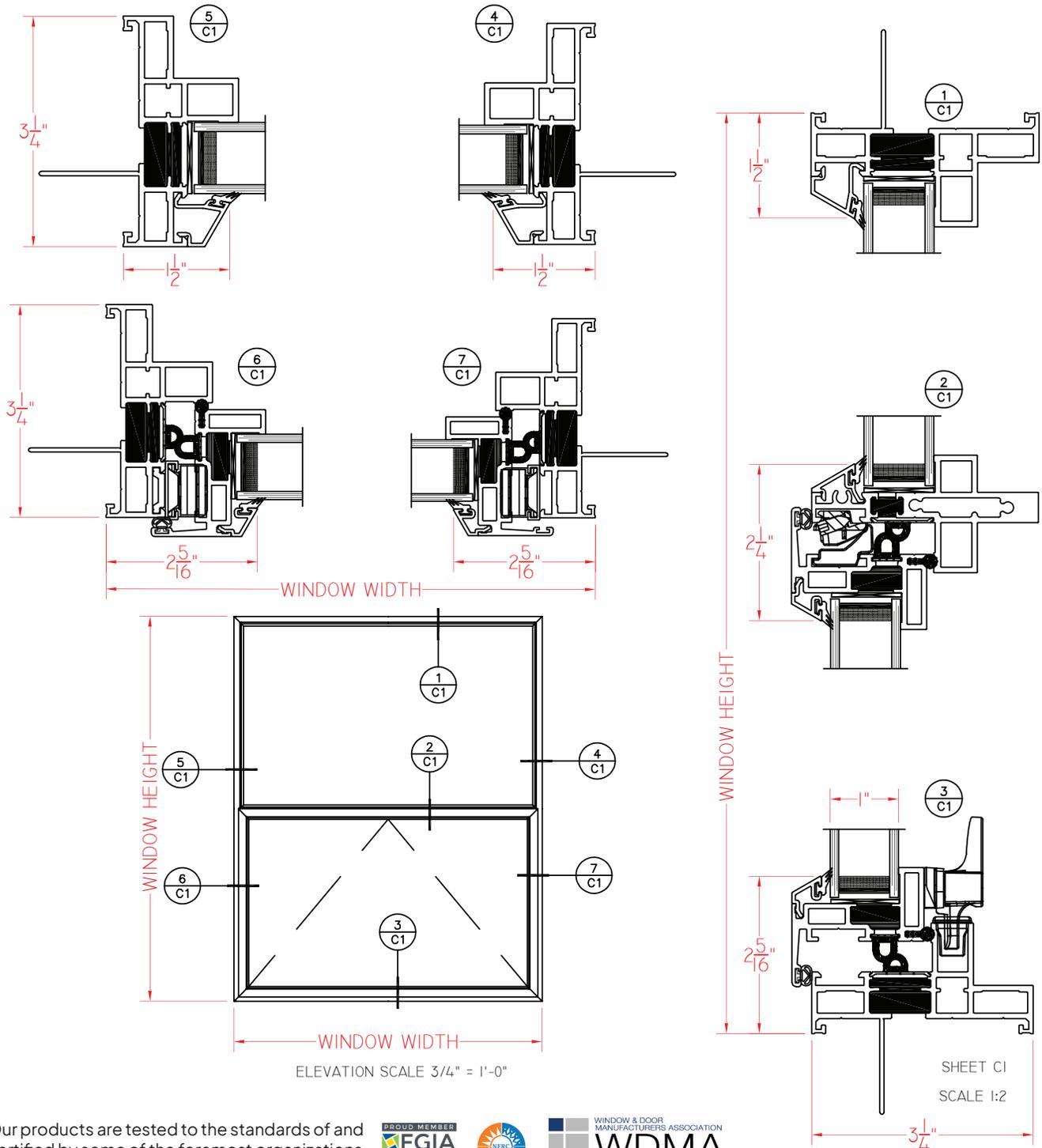


H450 Series 3 1/4" Frame Depth Project-Out

H450 Series Project-Out/Fixed

With Push-Out Hardware
and Nailing Fin

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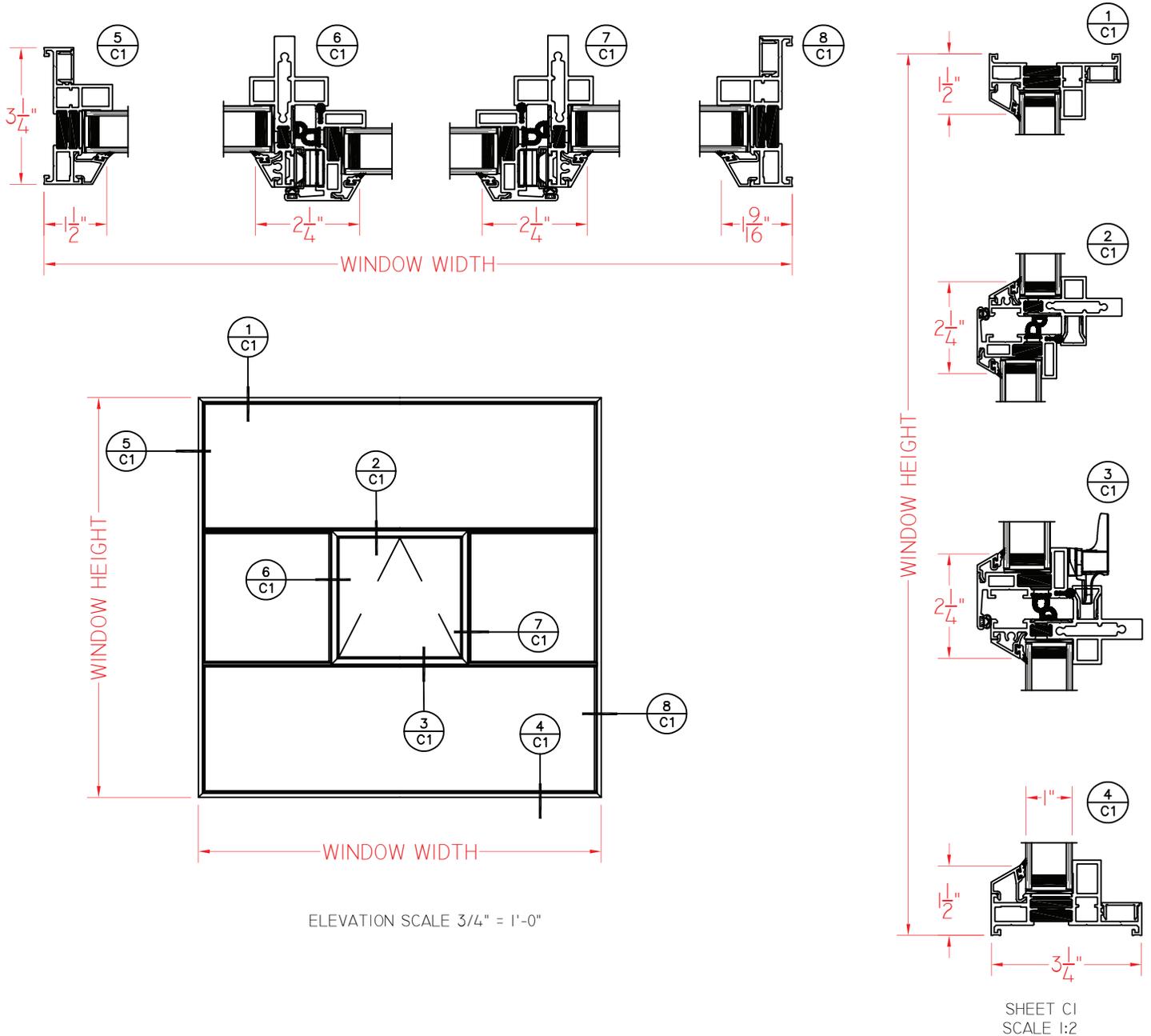
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H450 Series Floating Vent (Project-Out/Fixed)

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