

# Greenhouse Shop Drawings for the Rasch Residence

46899 Bill's Drive, Bell Center, WI 54631

Manufacturer/Installer:  
**WISCONSIN SOLAR DESIGN**  
 6349 Briarcliff Ln., Middleton, WI 53562

Architect:  
 Osterhaus McCarthy, LLC  
 53 W. Jackson Blvd, Ste. 1356  
 Chicago, IL 60604

Project:  
 Rasch Greenhouse  
 46899 Bill's Drive  
 Bell Center, WI 54631

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 Issued:  
 7/25/11

DESCRIPTION:

1. 14'-6" x 8'-0" greenhouse built to a 4:12 slope with one side wall and two 8'-0" end walls on a knee wall & slab by owner.
2. Insulated glass consisting of: 1/4" clear tempered outer lite over 1/4" clear tempered inner lite, low-E #3 coating, and argon gas filled; overall thickness of 1".
3. Extruded aluminum framework and flashings w/ dark bronze anodized finish.
4. (1) 2'-0" x 14'-6" ridge ventilation system, hardware and screens, automatic with motor and thermostat. 110V electrical power connections to the motor and thermostat are by owner.
5. (2) operable casement thermally-broken windows, commercial quality, stainless steel operating hardware and screens.
6. (1) 3'-0" x 7'-0" insulated glass and aluminum commercial entrance door with closer, mortise lockset and thumbturn, push bar and pull handle, weatherseal, sweep and threshold, finish to match.
7. 2 year no cost service guarantee, 5 year full warranty against glass seal failure.
8. Design Data:  $\Delta \max = \frac{L}{180} = 0.40"$ , SL=40psf, DL=15psf, WL=20psf. See page 7 of 8 for framing member structural and physical characteristics.
9. Glazing Sealant: Dow Corning 795 Silicone.

NOTES to OWNER:

1. Provide blocking adjacent to the greenhouse per details submitted 6/17/11 to receive framework and jamb flashing. See pages 5 & 6 of 8 for the drawings submitted earlier.
2. Provide 2x nailer at sill locations and caulk/seal to concrete as necessary to provide continuous, weathertight curb for greenhouse installation. Sill plates/nailers to be added for a tight closure as shown on diagram on sheet 2. Bolts in nailers shall not protrude above surface.
3. Owner to provide counterflashing between concrete blocks and stone at ridge of greenhouse. See detail (H) on sheet 6.

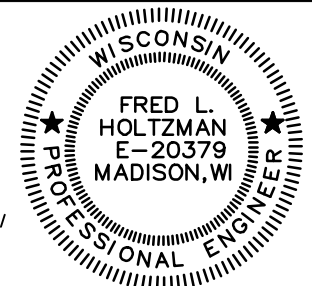
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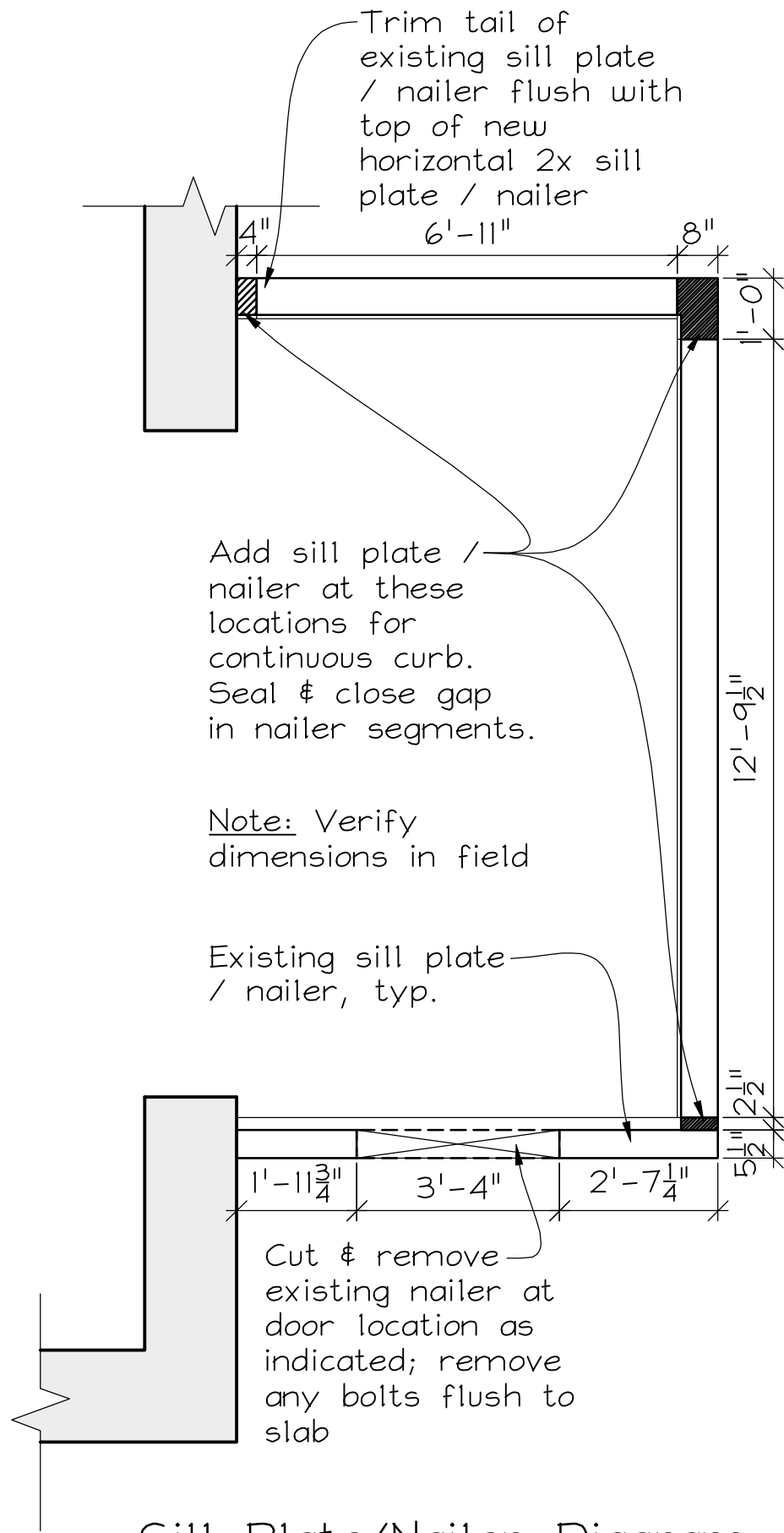
- 1- Title Page
- 2- Greenhouse Plan & Sill Plate Diagram
- 3- South/East/West Elevations
- 4- Sections & Attachment Elevation
- 5- Details
- 6- Details
- 7- Details, Wiring Diagram, & Rafter Properties
- 8- Details

DRAWING APPROVAL: We have reviewed these drawings and approve their use for construction of the greenhouse. Any comments or suggestions have been added to the drawings.

Acceptance:  
 Owners: David Rasch & Mickie Rasch  
 name -----date-----  
 name -----date-----  
 Architect: Osterhaus McCarthy, LLC  
 name -----date-----

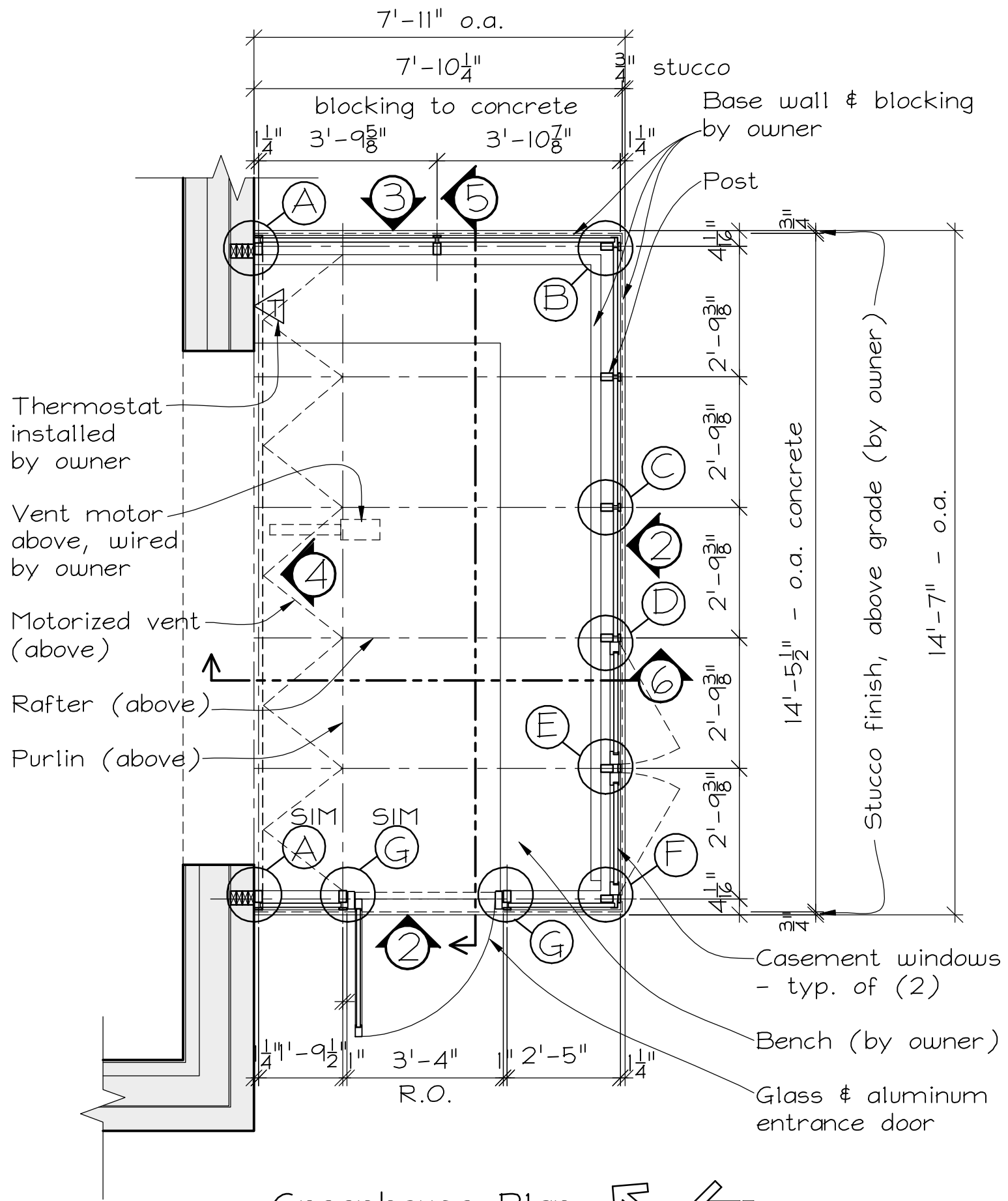
Drawings by: James Thomack,  
 Wisconsin Solar Design





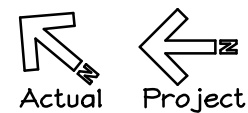
Sill Plate/Nailer Diagram

Scale: 3/8" = 1'-0"



Greenhouse Plan

Scale: 3/8" = 1'-0"

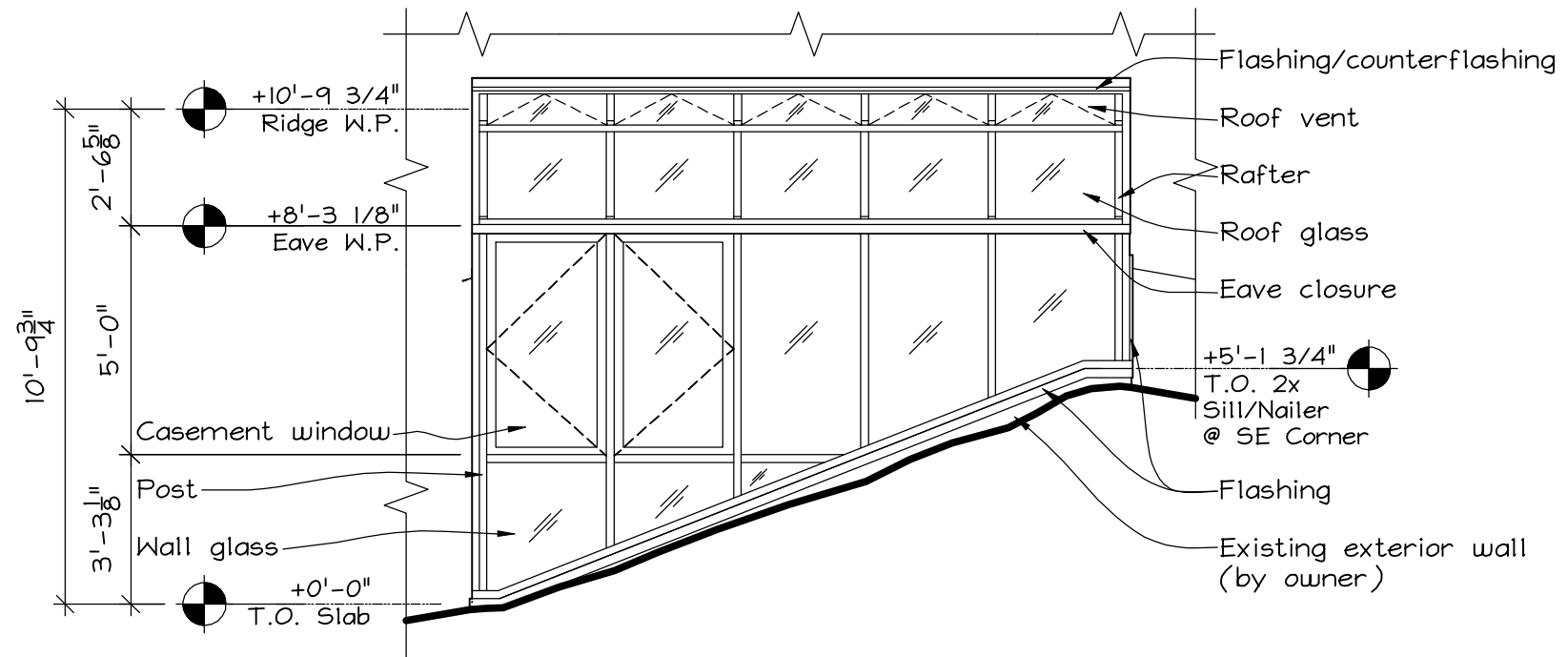


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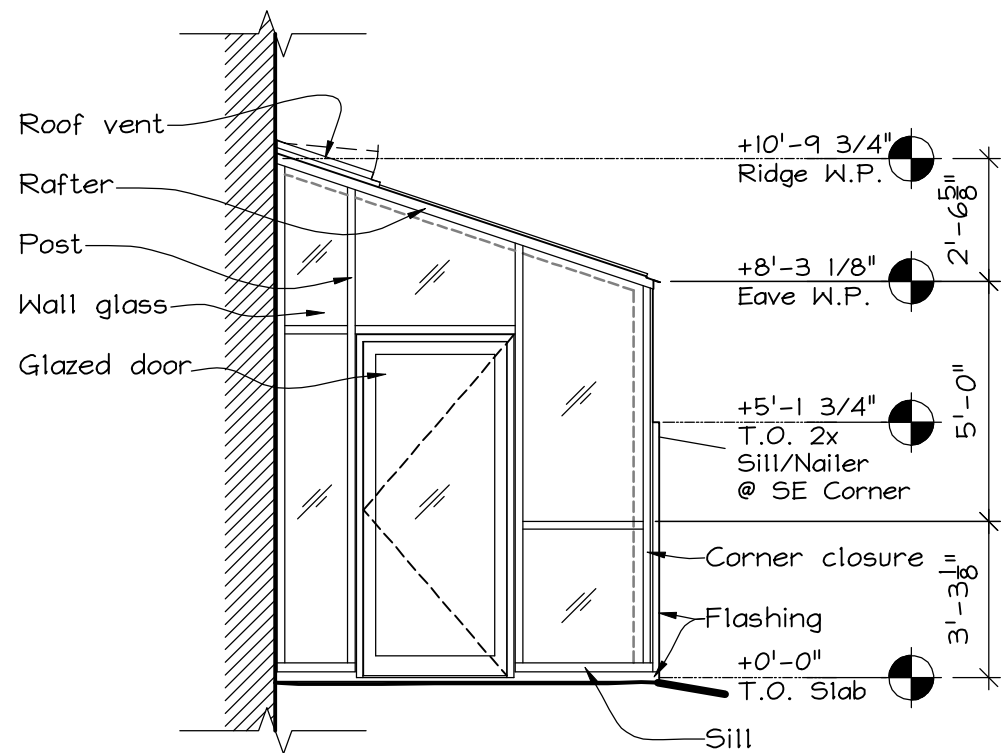
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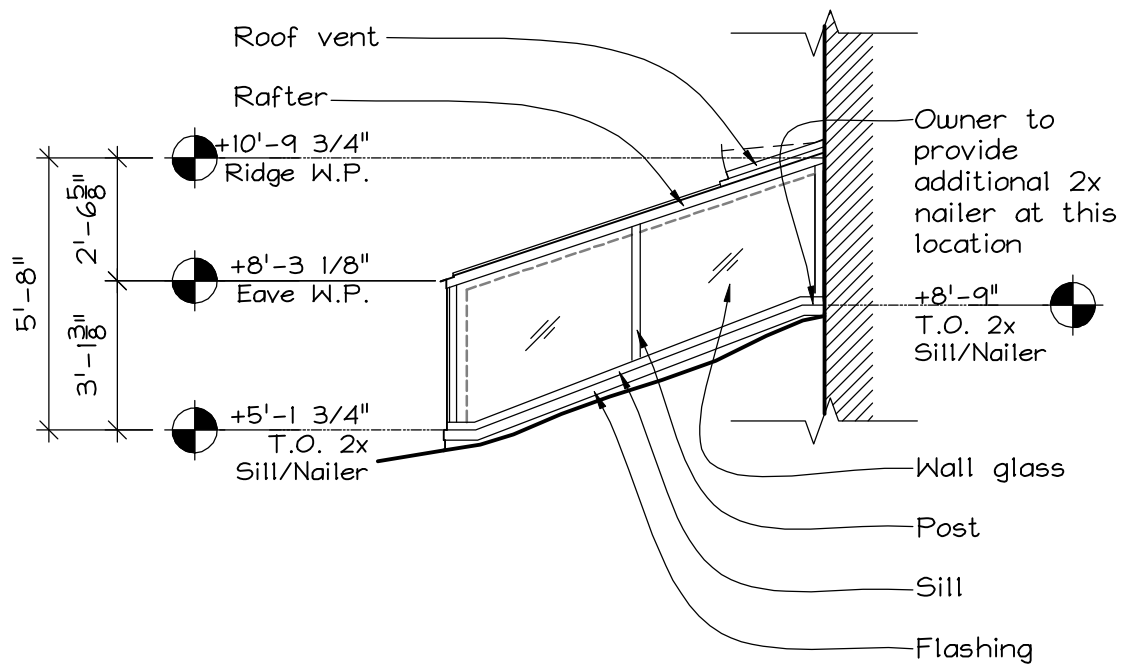
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① South Elevation  
Scale:  $\frac{1}{4}'' = 1'-0''$



② West Elevation  
Scale:  $\frac{1}{4}'' = 1'-0''$



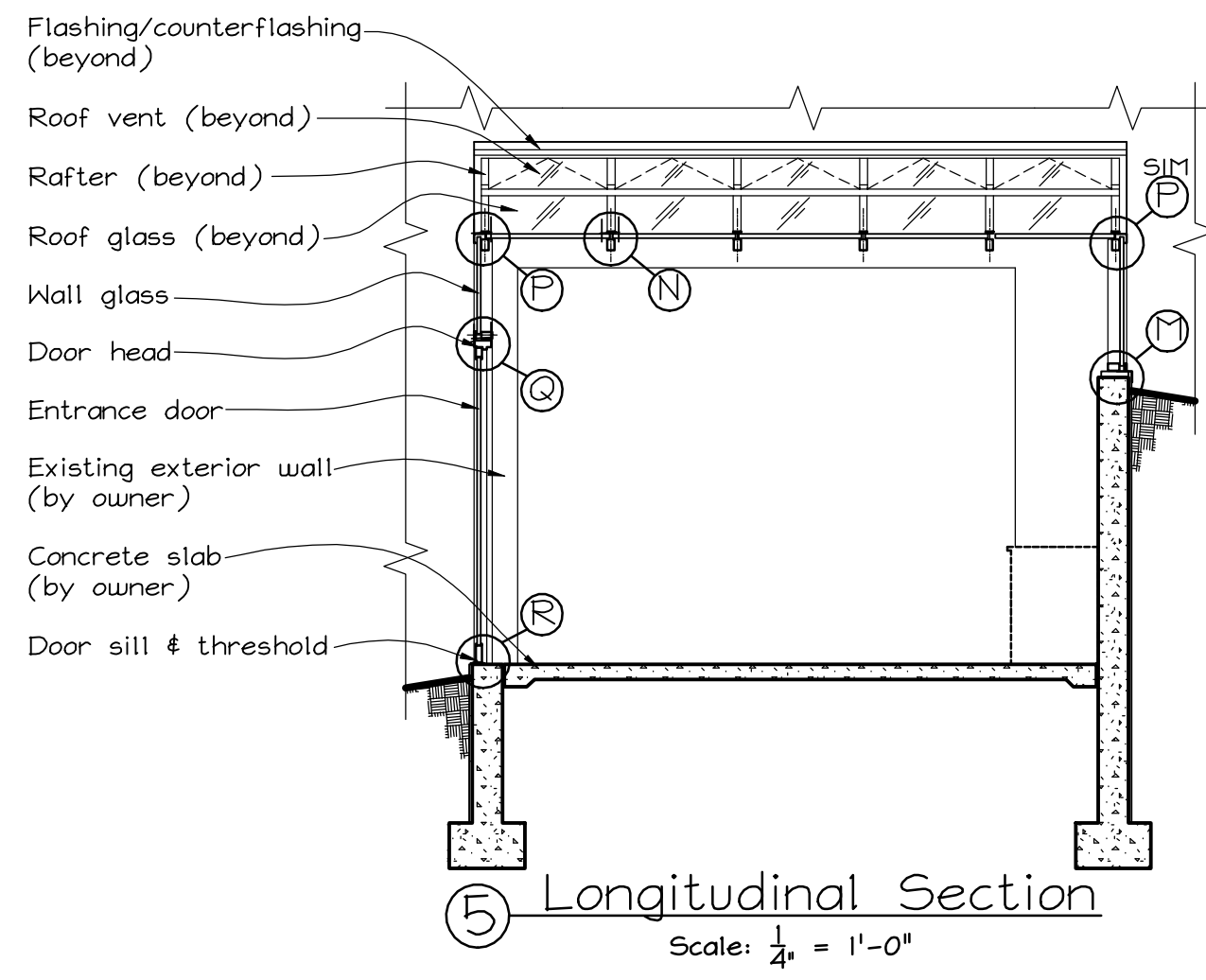
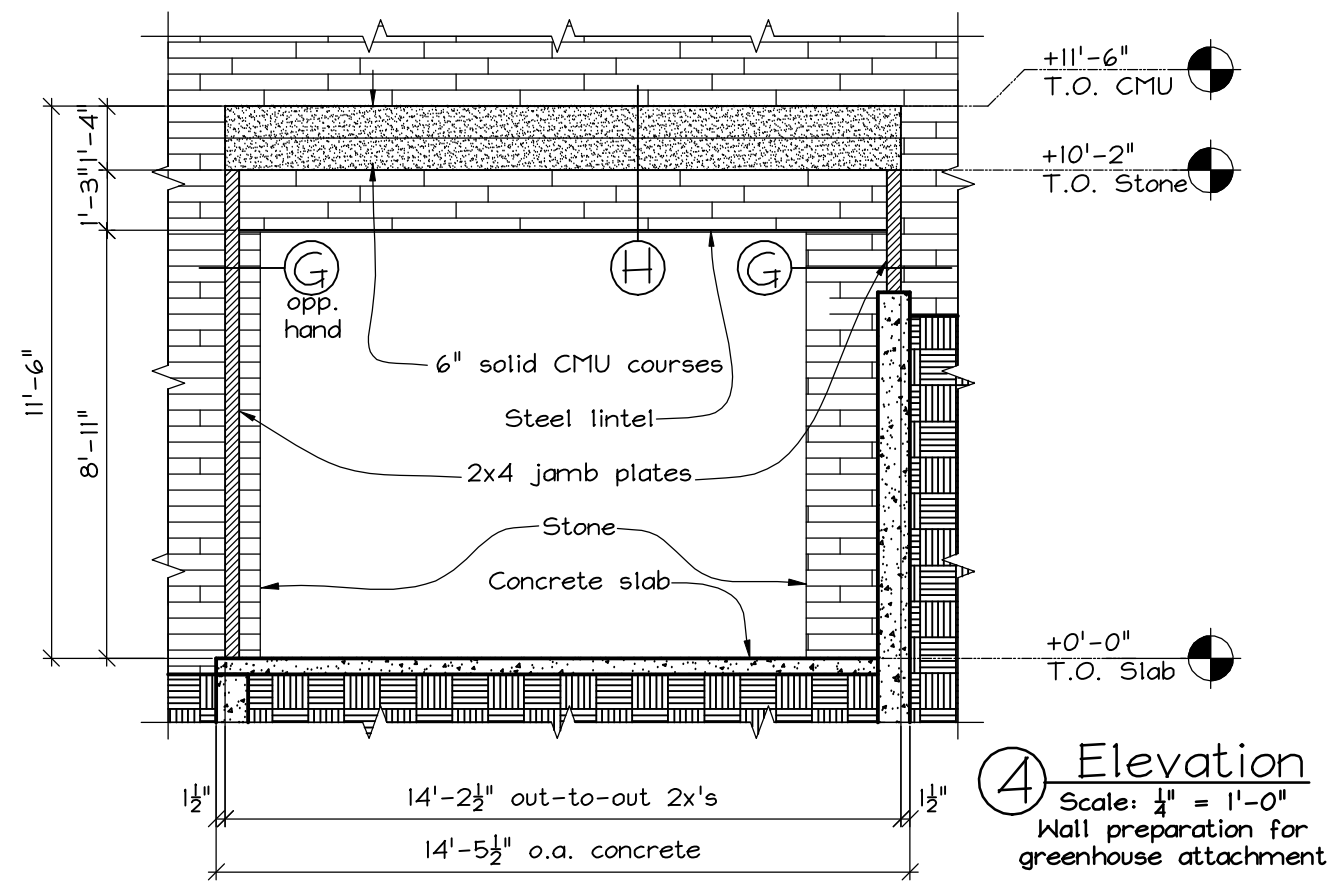
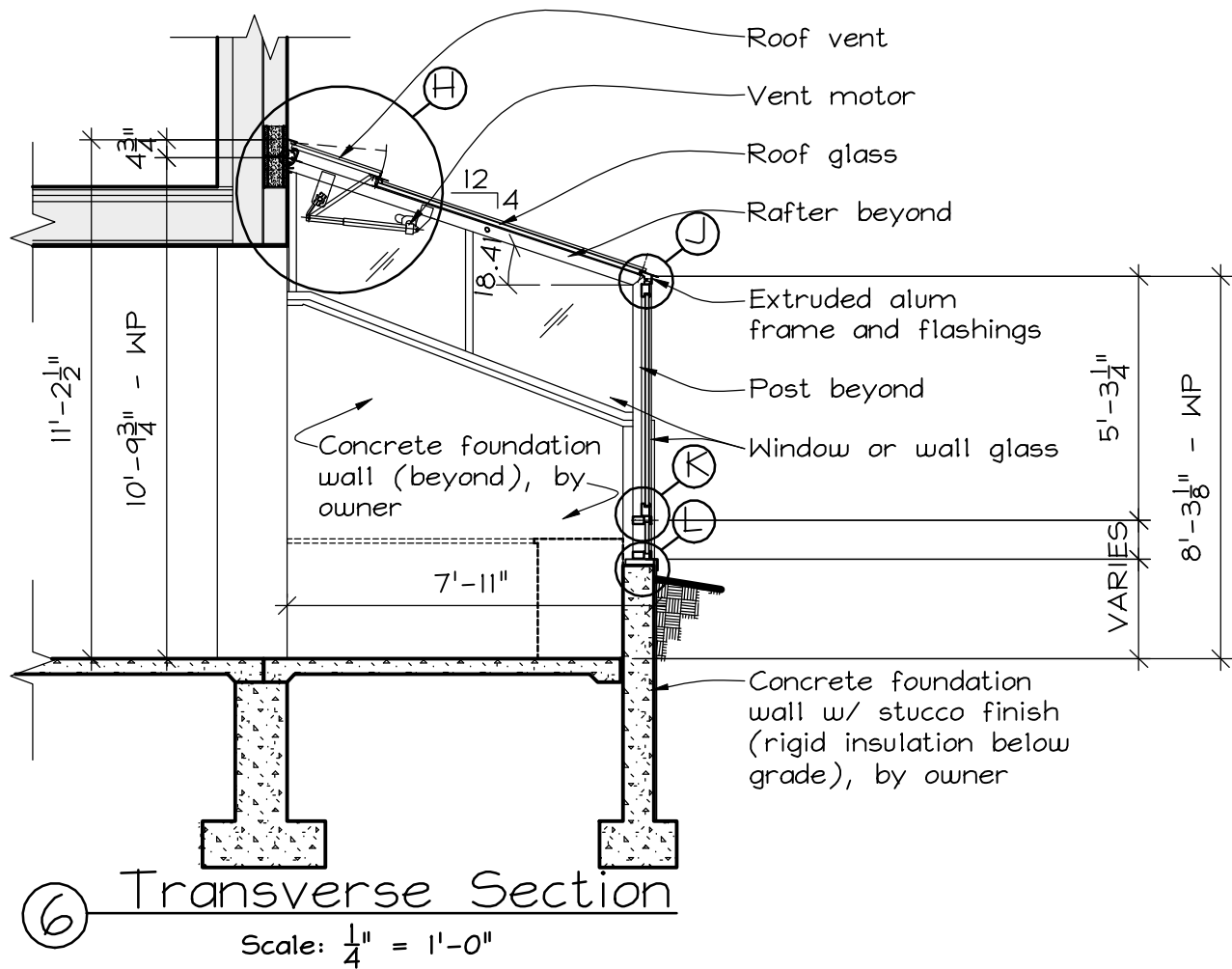
③ East Elevation  
Scale:  $\frac{1}{4}'' = 1'-0''$

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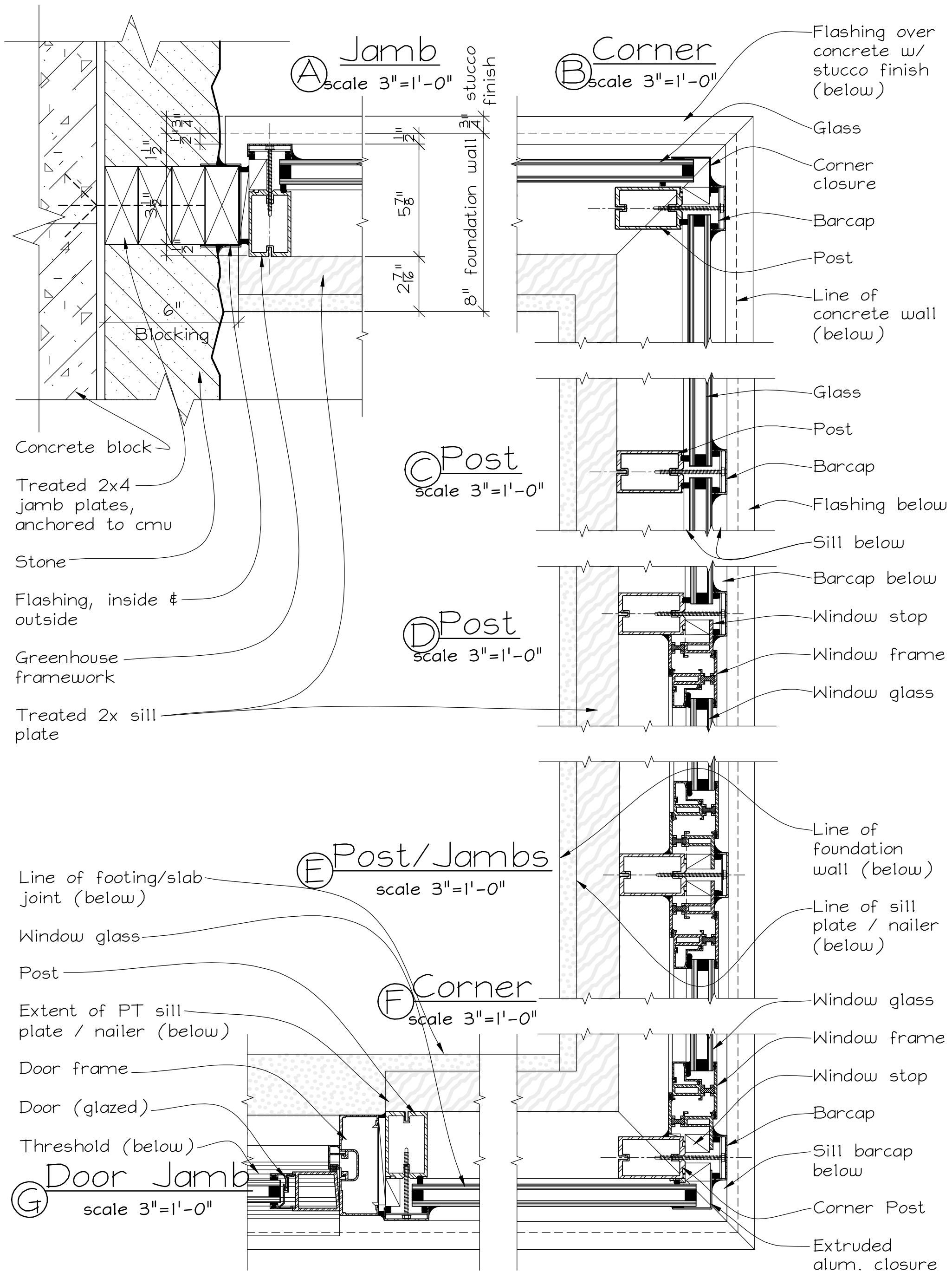


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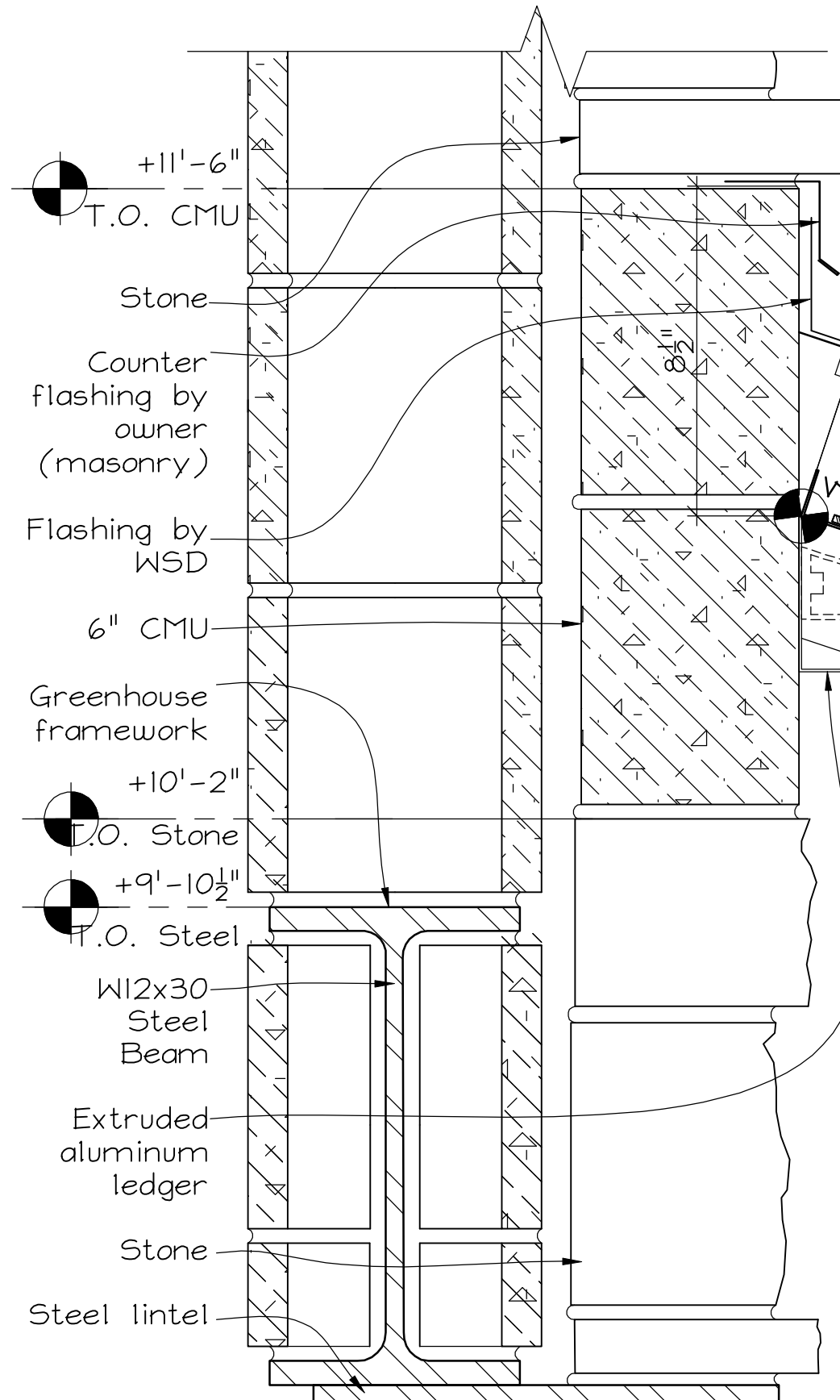



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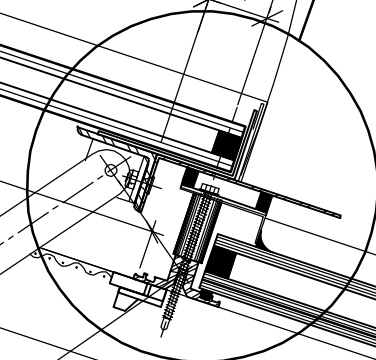
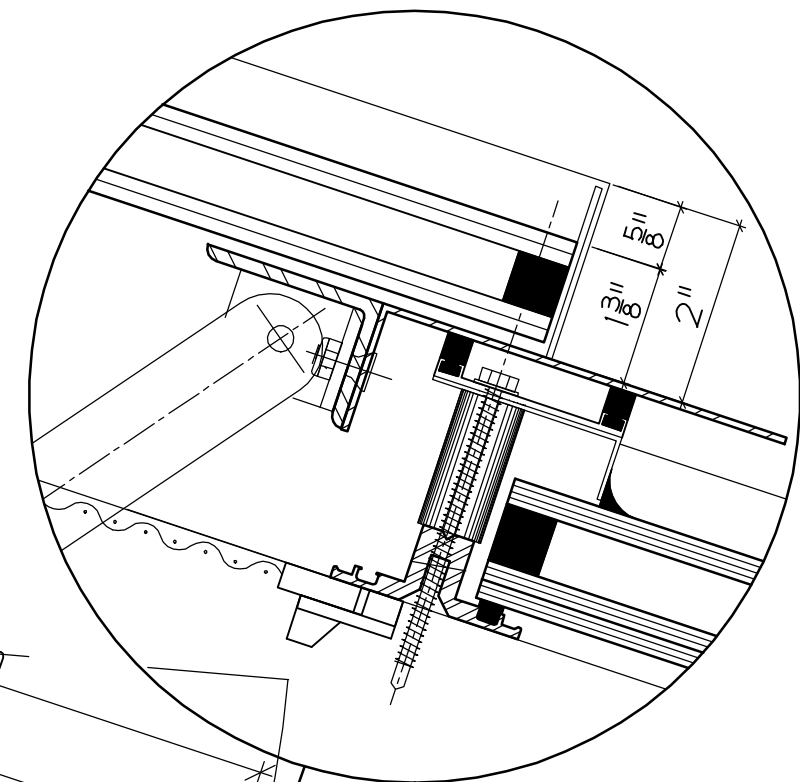
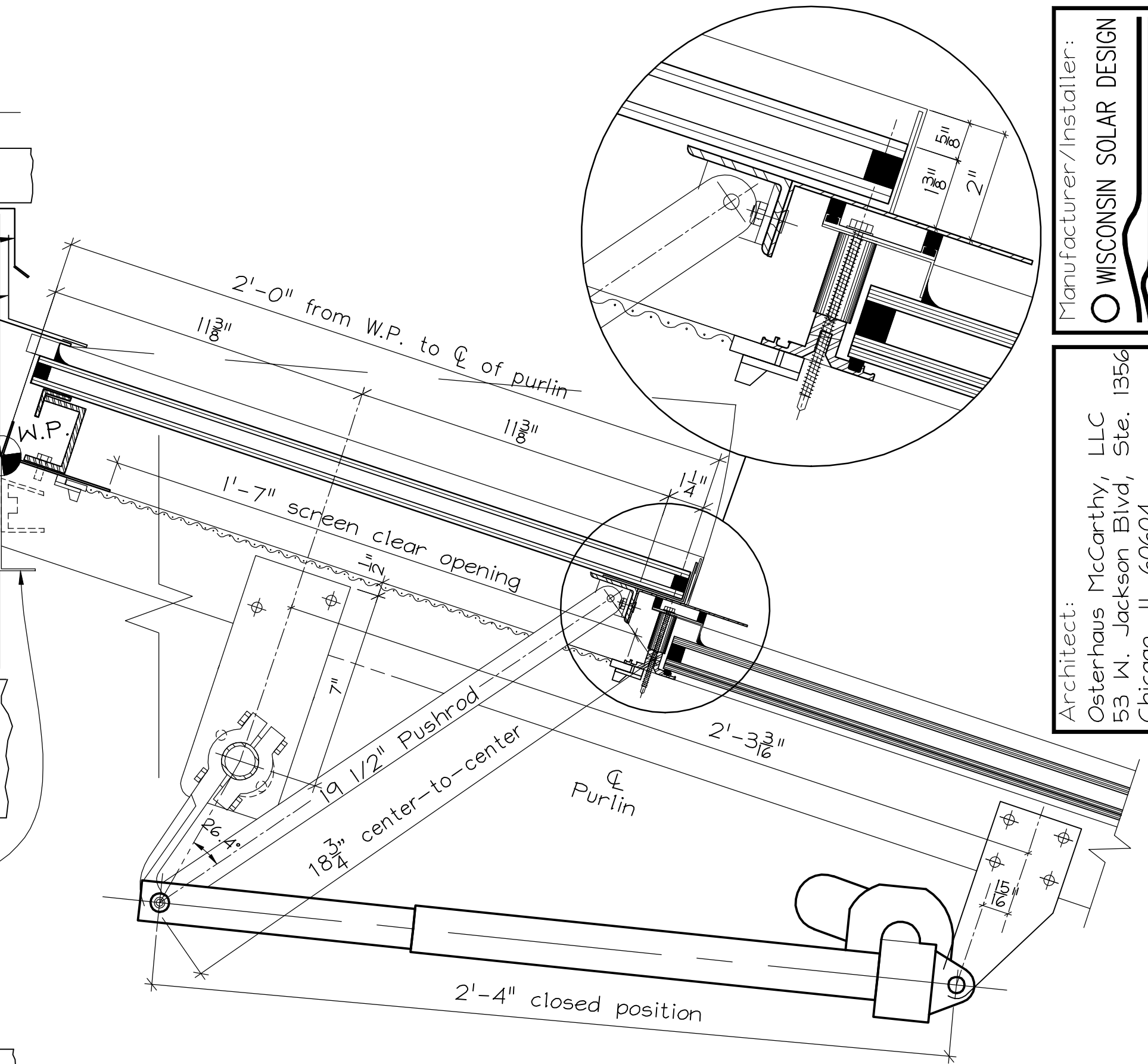
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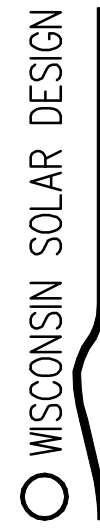
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 Ridge  
 scale 3"=1'-0"

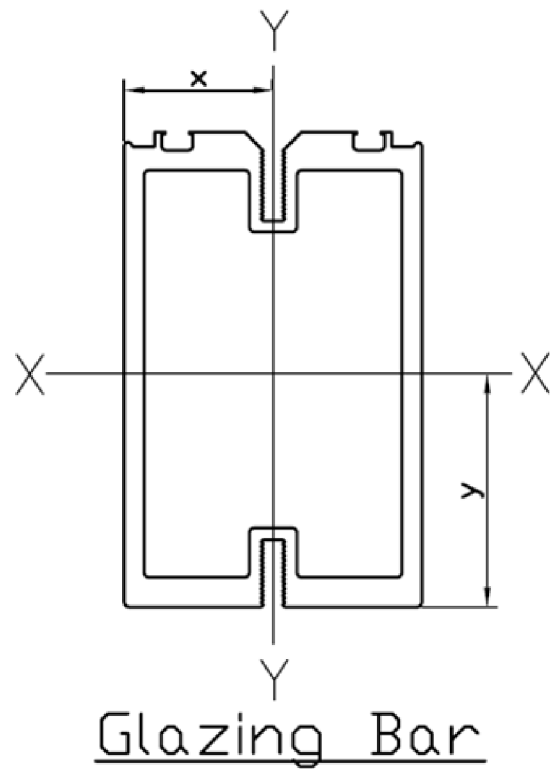
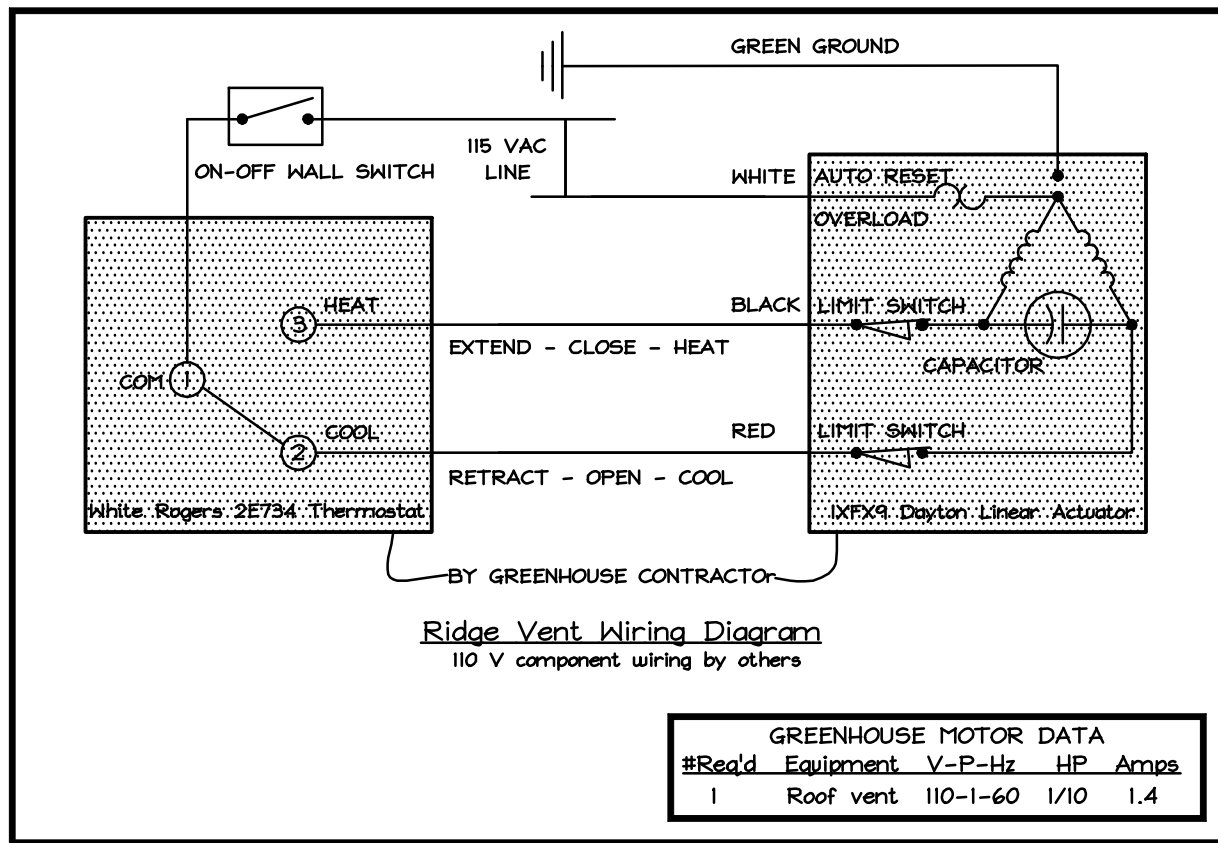


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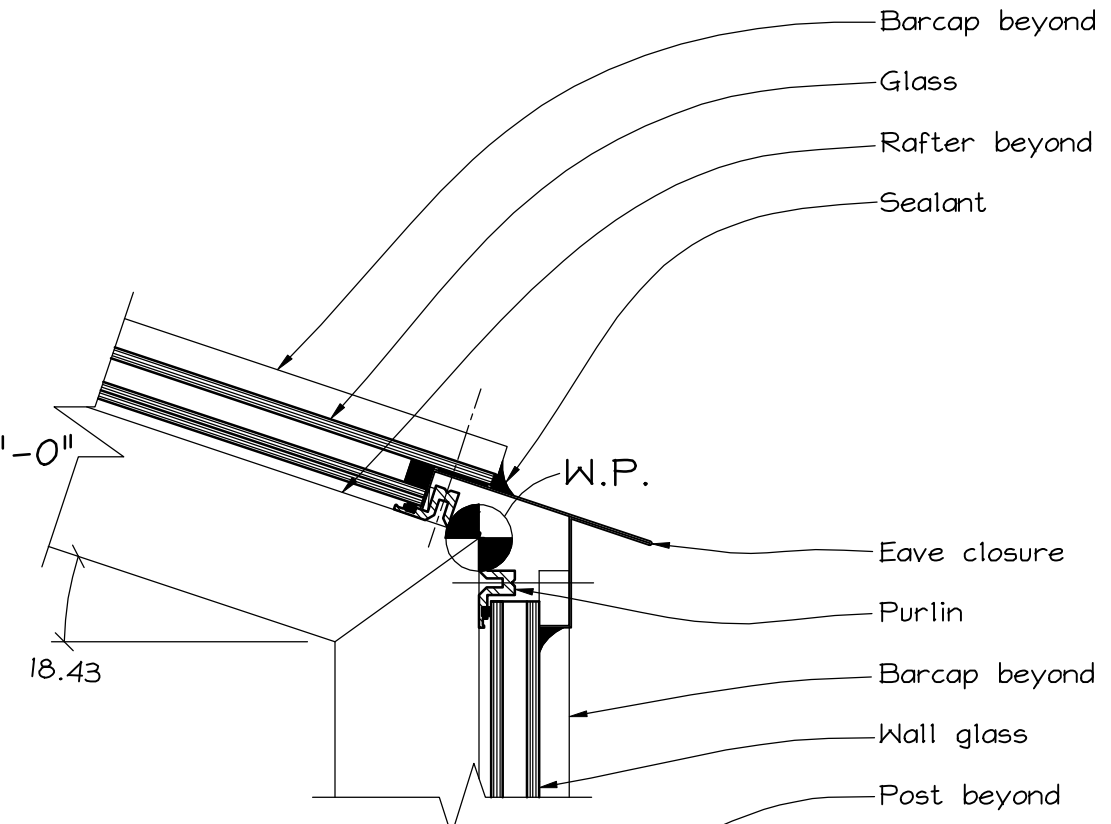
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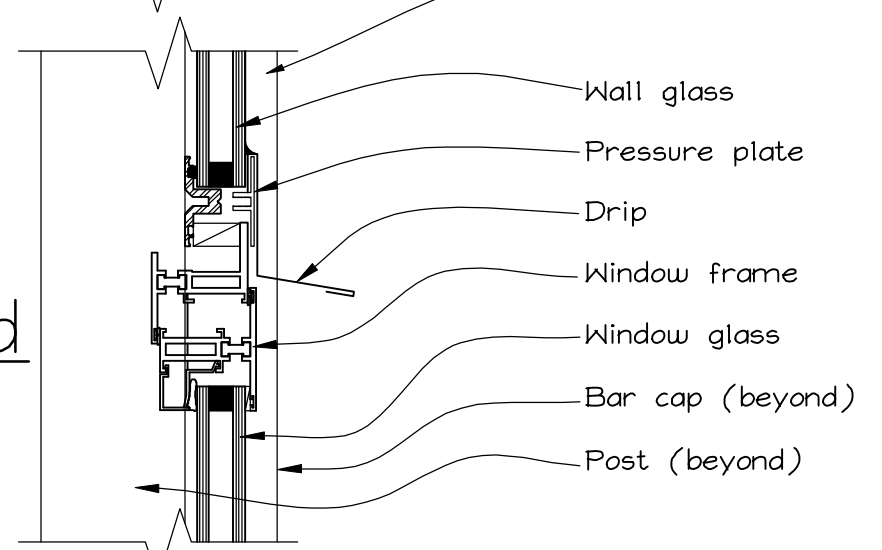


Shape	Weight per foot lb	Area in <sup>2</sup>	Axis X-X				Axis Y-Y			
			I in <sup>4</sup>	S in <sup>3</sup>	r in	y in	I in <sup>4</sup>	S in <sup>3</sup>	r in	x in
Glazing Bar	1.589	1.2728	1.6849	1.1338	1.1506	1.4861	0.5801	0.6188	0.6751	0.9375

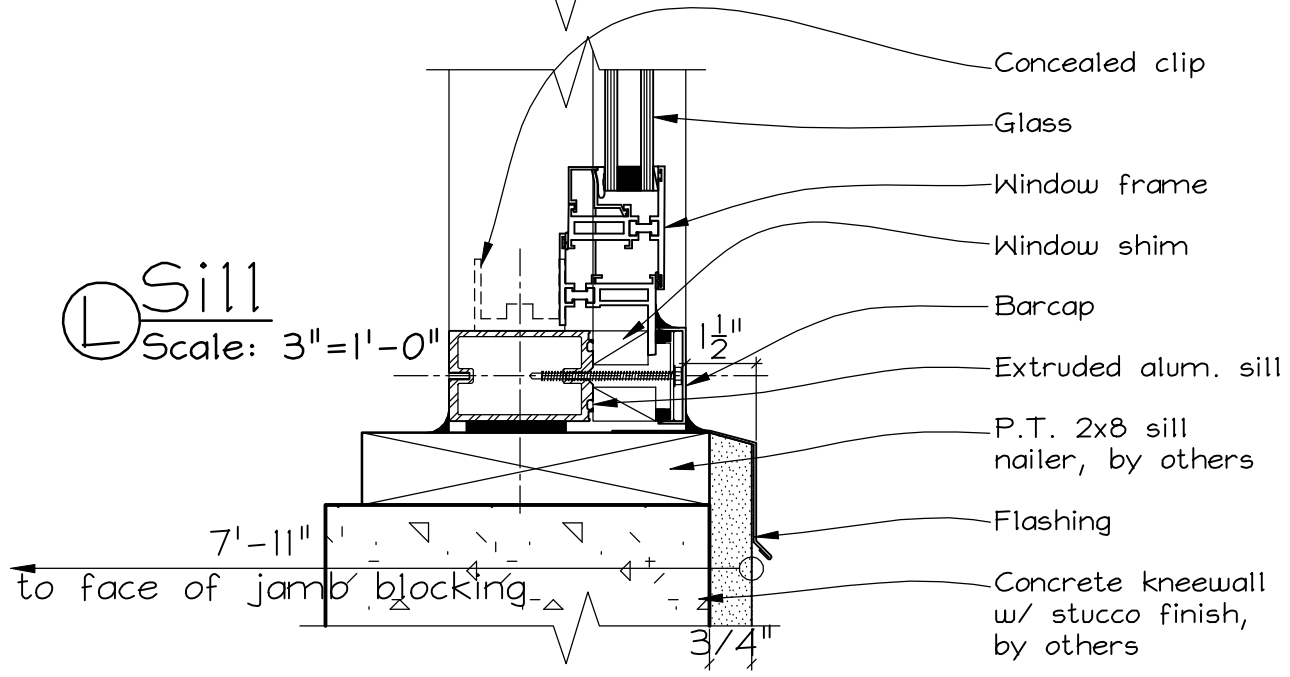
**J Eave**  
Scale: 3" = 1'-0"



**K Purlin/Head**  
Scale: 3" = 1'-0"



**L Sill**  
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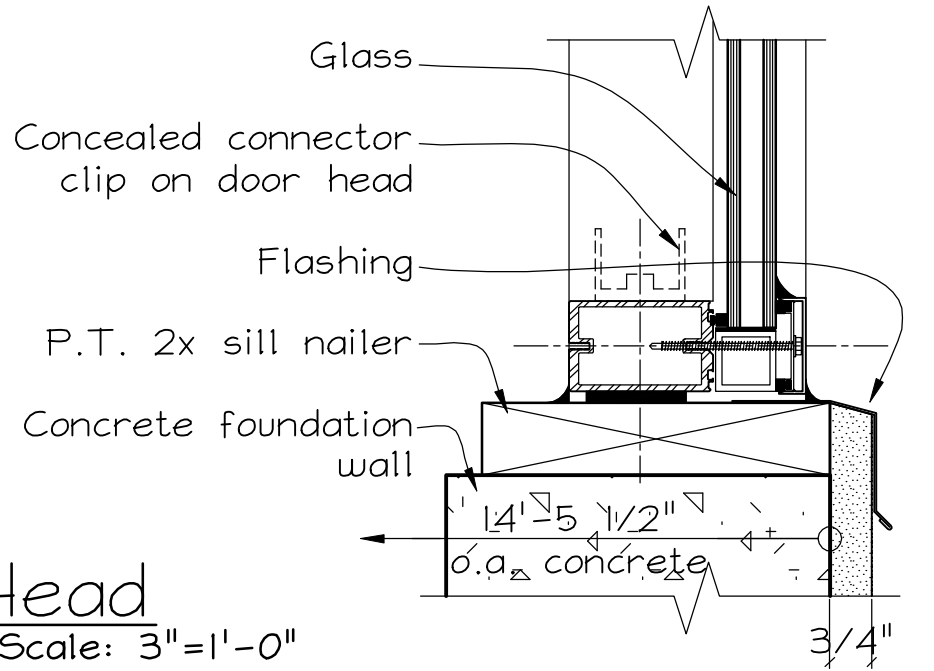
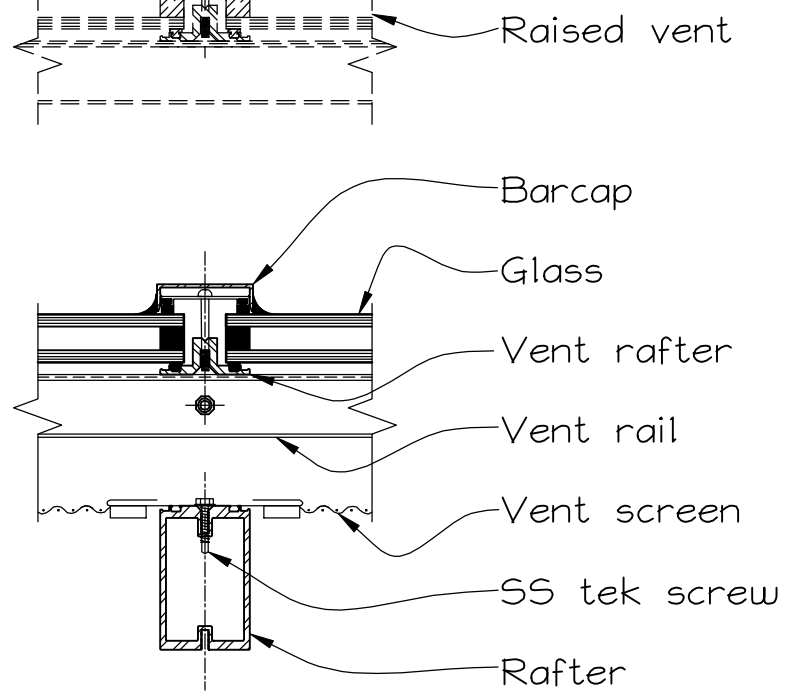
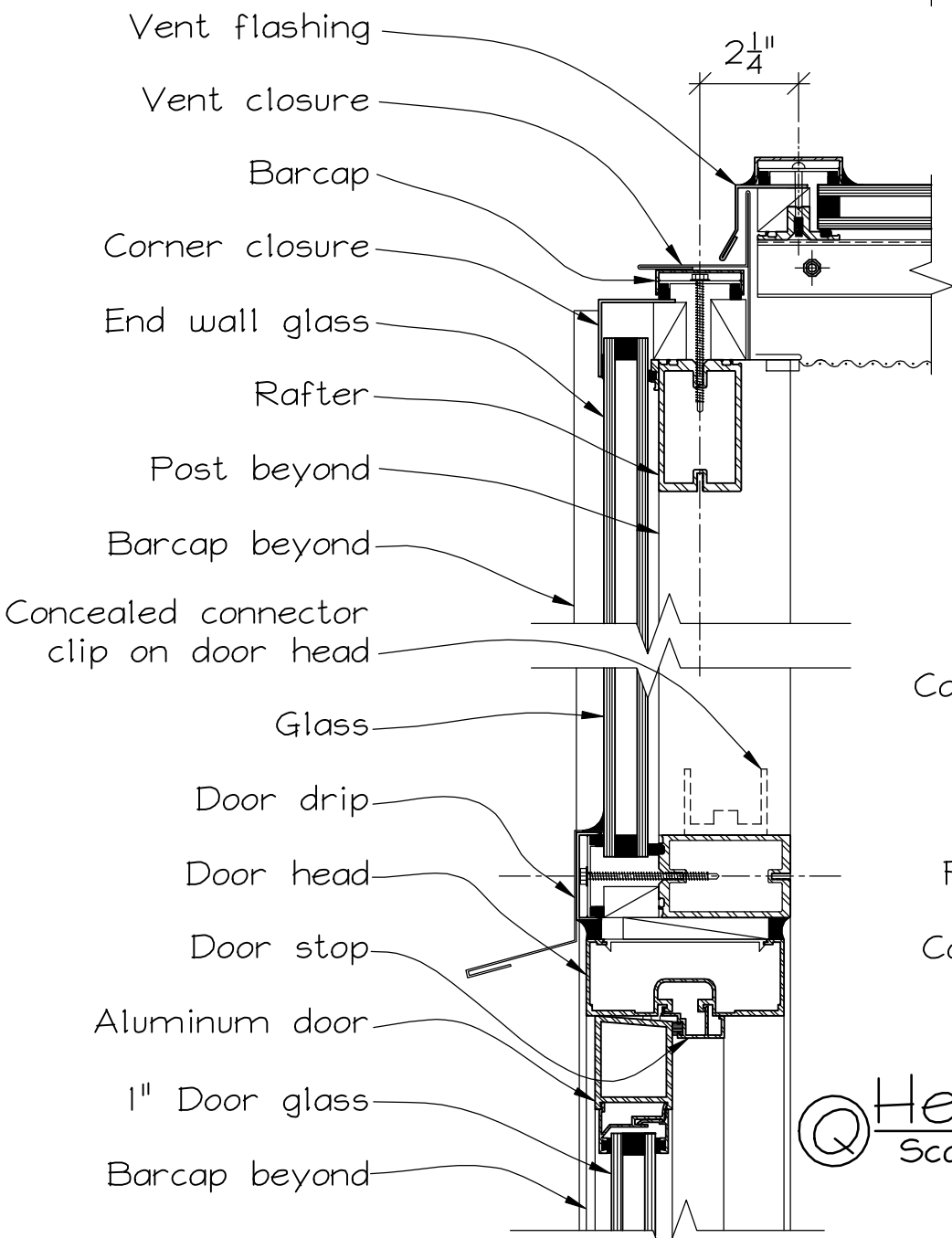
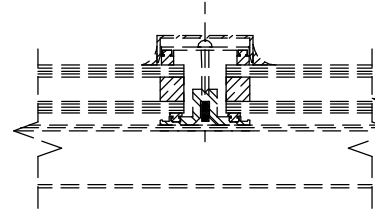
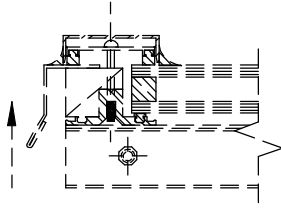
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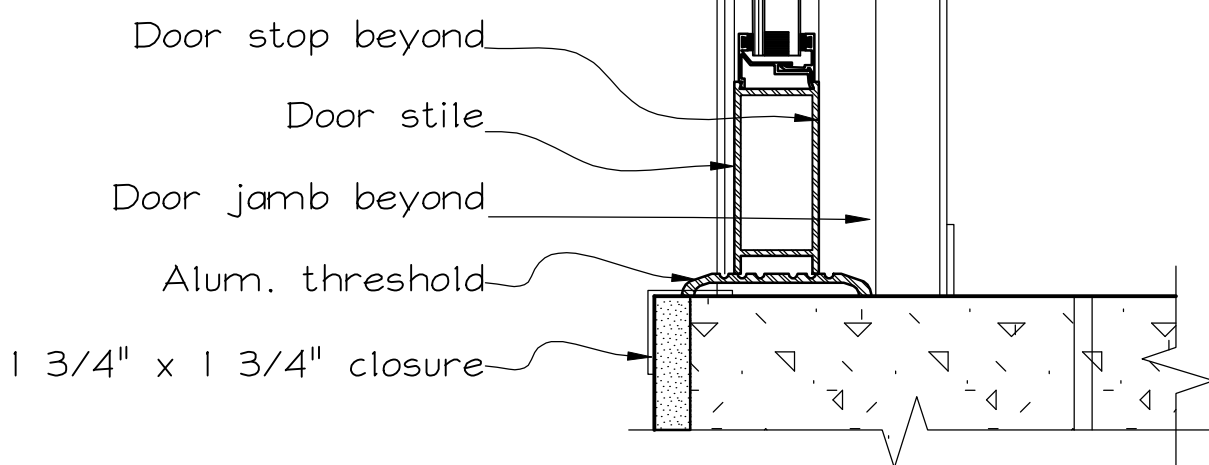
**P Rake**  
Scale: 3"=1'-0"

**N Rafter**  
Scale: 3"=1'-0"



**Q Head**  
Scale: 3"=1'-0"

**M Sill**  
Scale: 3"=1'-0"



**R Sill**  
Scale: 3"=1'-0"

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