

120MD / 130MD / 140MD ALUMINUM SLIDING GLASS DOOR (IMPACT)

NOTES:

- 1. Installations depicted satisfy the requirements of the Florida Building Code, Building 8th Edition (2023) for design wind pressures and overall sizes noted.
- 2. Wood bucks, wood framing, steel stud framing, concrete and concrete masonry are by others and shall be designed by the architect or engineer of record to resist the loads imparted to them.
- 3. Wood buck strips and wood frames are assumed Spruce-Pine-Fir (G=0.42) or denser. Bucks shall be properly secured to the building substrate to resist the loads imposed to them. Buck width shall be greater than the frame width. Tapered or partial width buck strips are not allowed. For buck strips less than 1-1/2" thick, fasten through the buck strip and anchor to building substrate with approved anchor.
- 4. Concrete/masonry installations are assumed at least ASTM C90 normal weight grout-filled masonry units with a 1-1/4" wall thickness or normal weight concrete with a minimum compressive strength of f'c = 2,500 psi.
- 5. Metal stud frames are assumed to be a minimum 18 gauge 33 KSI steel or 0.053" minimum thickness aluminum (6063-T5).
- 6. Wood screws shall be corrosion resistant and meet the requirements of ANSI/ASME B18.6.1
- 7. DeWalt/Elco Ultracon SS4 concrete/masonry anchors shall have a minimum embedment of 1-3/4" . They shall also have a minimum of 2-1/2" edge distance (1-1/2" edge distance at pocket door hook strip).

Other approved concrete/masonry anchors and installation requirements:
1/4" Tapcon 1-3/4" Embedment, 2-1/2" Edge Distance, 4" Anchor Spacing
1/4" Elco Crete Flex SS4 1-3/4" Embedment, 2-1/2" Edge Distance, 3" Anchor Spacing

If anchor spacing is greater than 2-3/4", anchor pairs may need to be slightly offset for two-track doors to achieve the required spacing.

Install concrete/masonry anchors per anchor manufacturer's installation instructions.

- 8. TEKS screws shall be corrosion resistant and shall be ASTM A510 Grade 1018 or equivalent.
- 9. Maximum permitted shim thickness is 1/4". Shims shall be non-compressible and load bearing type. Every through-frame fastener shall have a shim.
- 10. Products are impact resistant and do not require approved protection devices if used in wind-borne debris regions.
- 11. Approved for use in High Velocity Hurricane Zone (HVHZ).
- 12. Doors installed where the Overhang Ratio ≥ 1 are not limited by water test pressure in accordance with FBC §2411.3.2.1.

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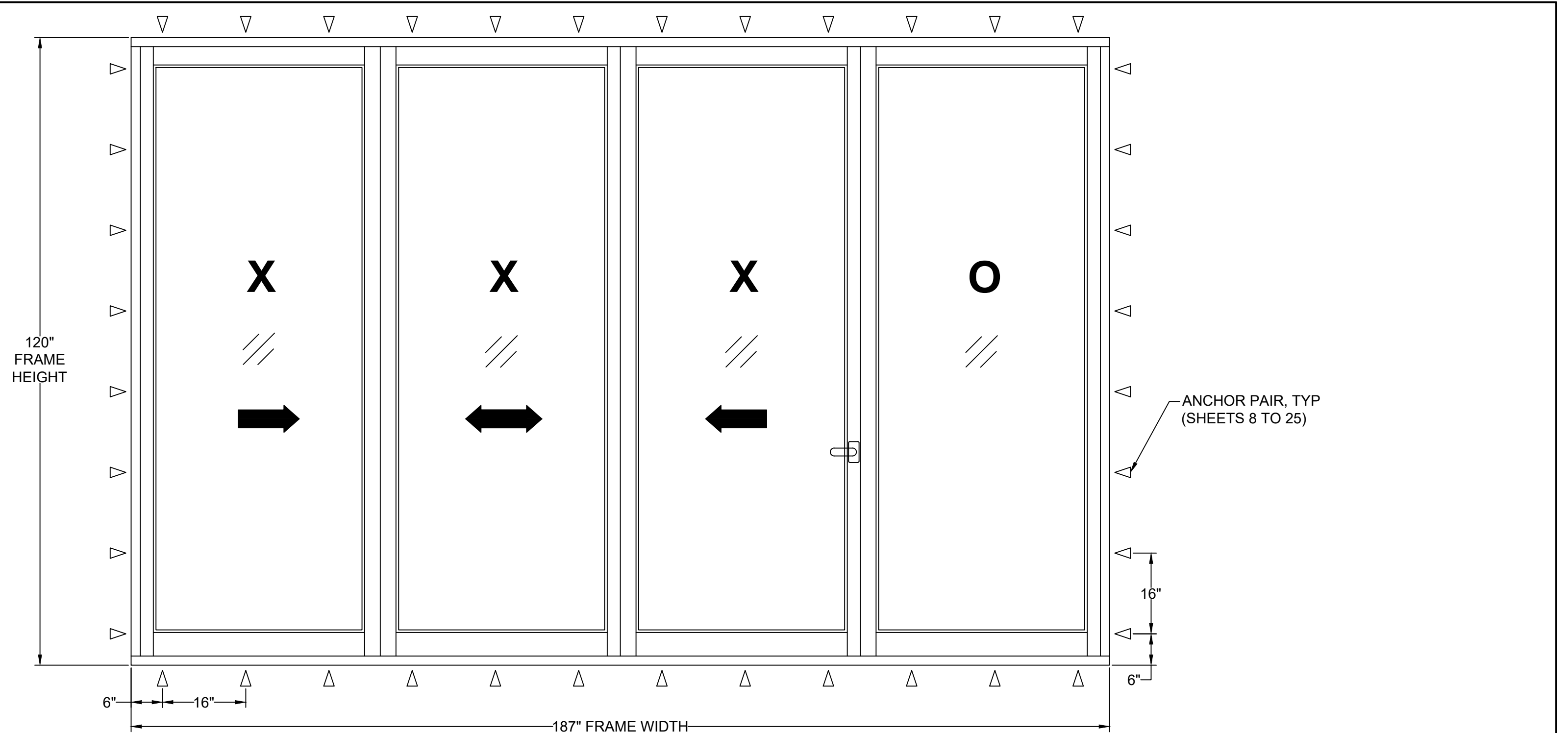
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FL REG 37122
1410 Eden Road
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717-916-6300



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Michael D. Stremmel

120MD/130MD/140MD SGD Notes	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: NTS	Sheet 1 of 30



SERIES 120MD / 130MD / 140MD SLIDING GLASS DOOR (IMPACT)

- NOTES:
- 1. PANEL SIZE: 48-5/8" X 117-1/2"
 - 2. DLO SIZE: 40-5/8" X 109-1/2"
 - 3. QUALIFIED FOR UP TO SIX PANELS OF ANY CONFIGURATION PROVIDED MAXIMUM DLO IS NOT EXCEEDED.
 - 4. FOR APPROVED CONFIGURATIONS SEE SHEET 5 TO 7

DESIGN PRESSURE RATING	IMPACT RATING
+/- 55 PSF	LARGE MISSILE

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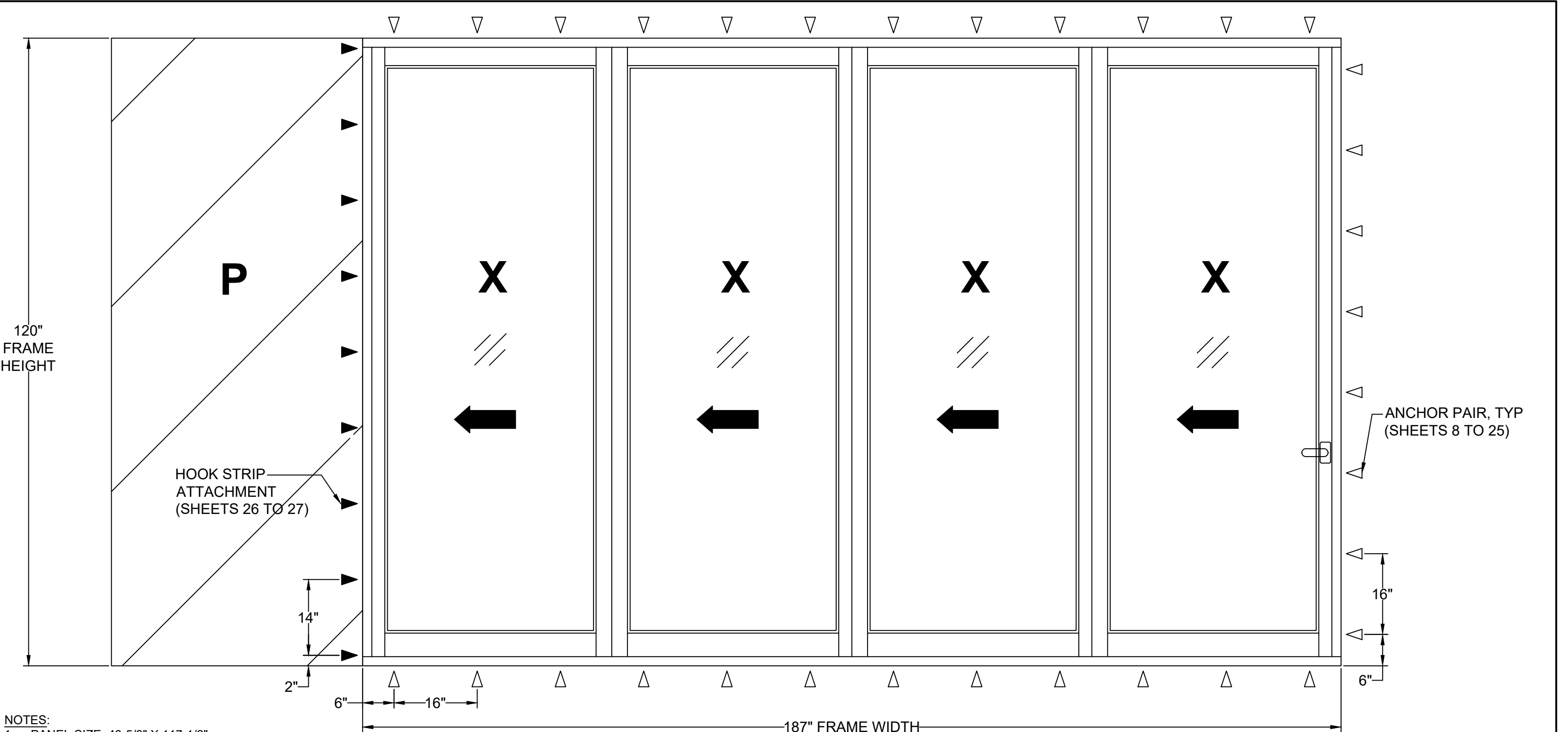
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120MD/130MD/140MD SGD
Elevations and Notes

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Gratz, PA 17030

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 - 4. FOR APPROVED CONFIGURATIONS SEE SHEET 5 TO 7
 - 5. POCKET PANEL (P) NOT COVERED BY THIS PRODUCT APPROVAL

**SERIES 120MD / 130MD / 140MD SLIDING GLASS DOOR (IMPACT)
WITH POCKET**

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OPTIONAL SIZES AND DESIGN PRESSURE RATINGS PROVEN BY COMPARATIVE ANALYSIS IN ACCORDANCE WITH FLORIDA BUILDING CODE §2411.3.2.4

Doors Installed with 3-1/2" Sill Extender						
Panel Height (in)	Design Pressure (psf) for Panel Width (inch)					
	24	30	36	42	48	54
80	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
84	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
90	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
96	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
102	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
108	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	-
114	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	-
118	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	-
120	+/- 55	+/- 55	+/- 55	+/- 55	+/- 53.1	-
126	+/- 55	+/- 55	+/- 55	+/- 51.4	-	-
132	+/- 55	+/- 55	+/- 51.5	+/- 44.6	-	-
138	+/- 55	+/- 53.5	+/- 44.9	-	-	-
144	+/- 55	+/- 47.0	+/- 39.4	-	-	-

Doors Installed Under Overhang In Accordance with FBC §2411.3.2.1						
Panel Height (in)	Design Pressure (psf) for Panel Width (inch)					
	24	30	36	42	48	54
80	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
84	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
90	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
96	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
102	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55
108	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	-
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118	+/- 55	+/- 55	+/- 55	+/- 55	+/- 55	-
120	+/- 55	+/- 55	+/- 55	+/- 55	+/- 53.1	-
126	+/- 55	+/- 55	+/- 55	+/- 51.4	-	-
132	+/- 55	+/- 55	+/- 51.5	+/- 44.6	-	-
138	+/- 55	+/- 53.5	+/- 44.9	-	-	-
144	+/- 55	+/- 47.0	+/- 39.4	-	-	-

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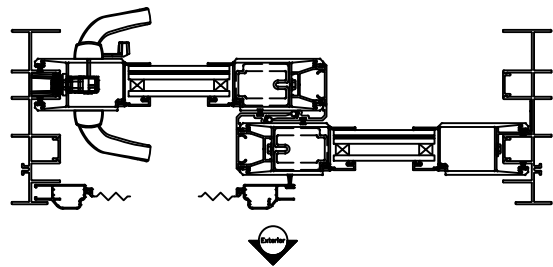
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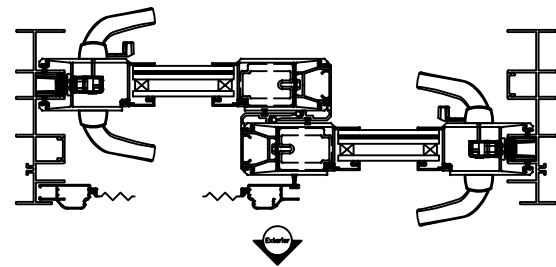
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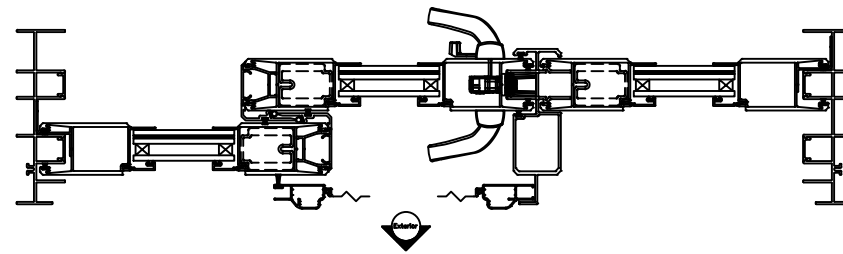
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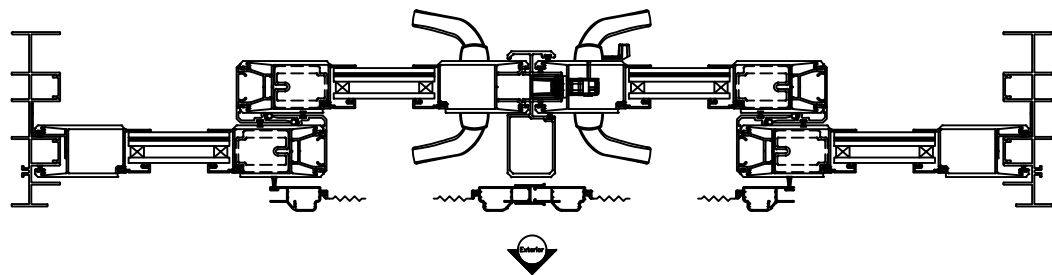
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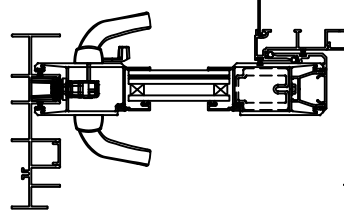
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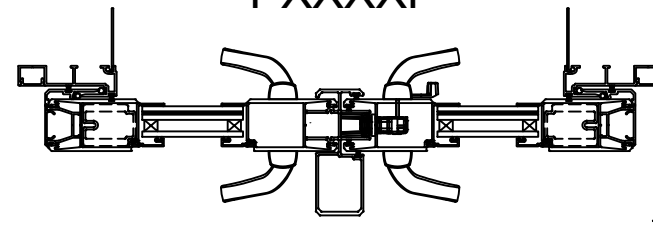
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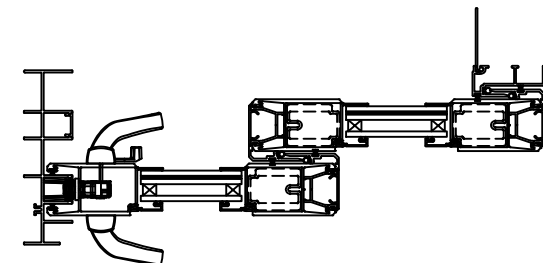
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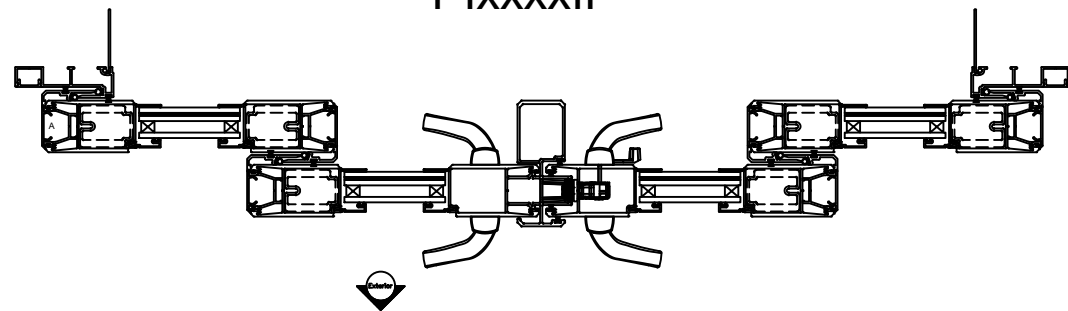
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**120MD/130MD/140MD SGD
2-TRACK CONFIGURATIONS**

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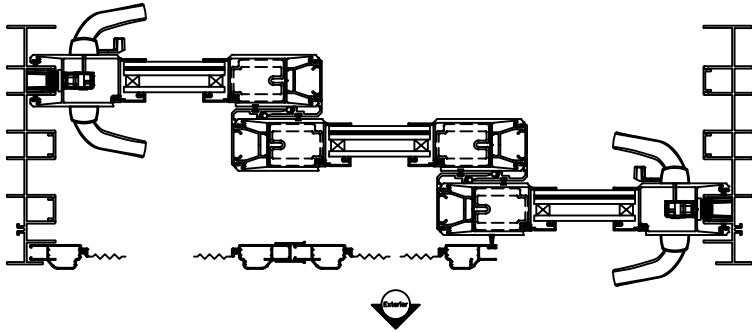
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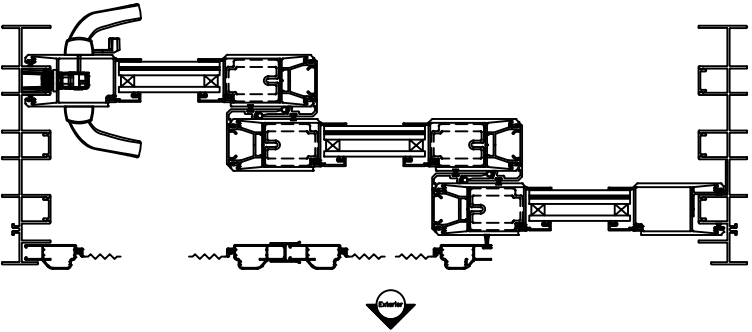
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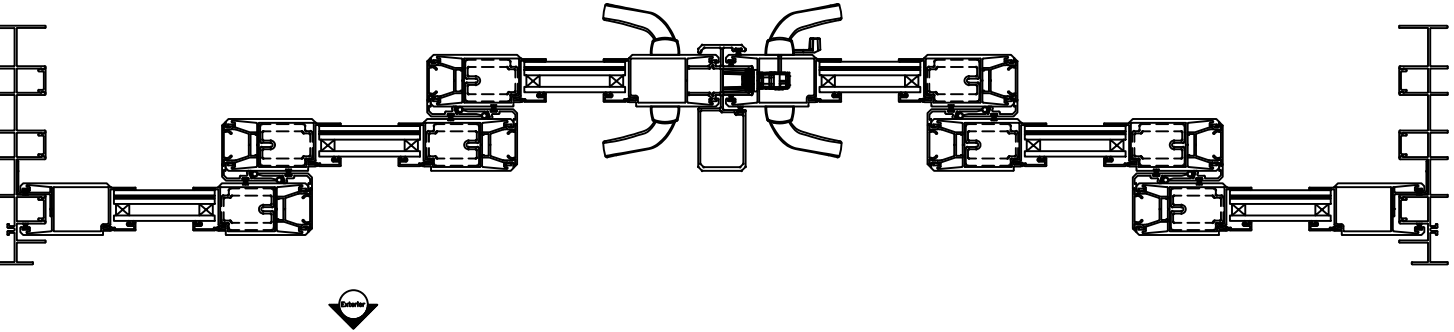
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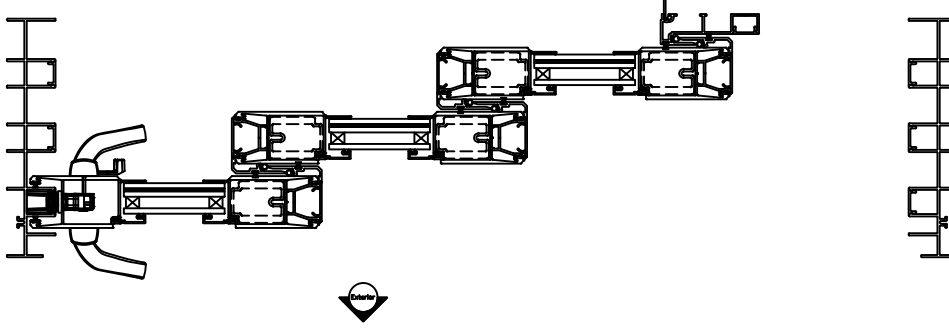
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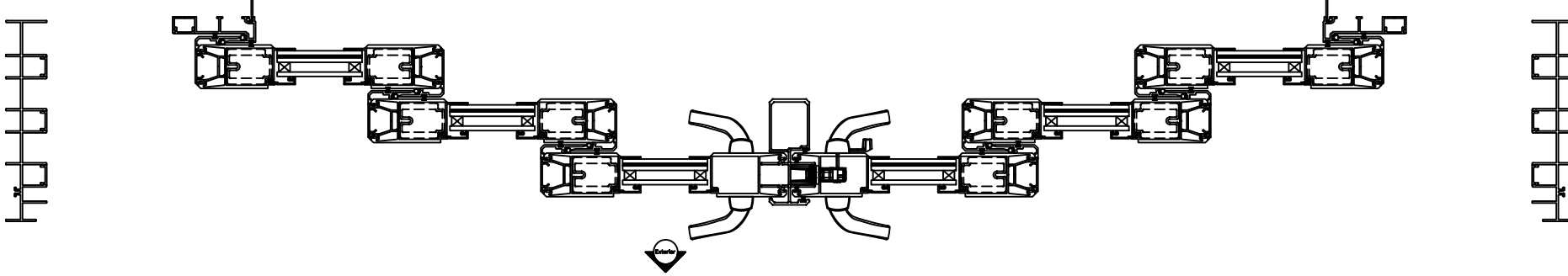
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PIIXX / XXIIP



PIIXXXXIIP



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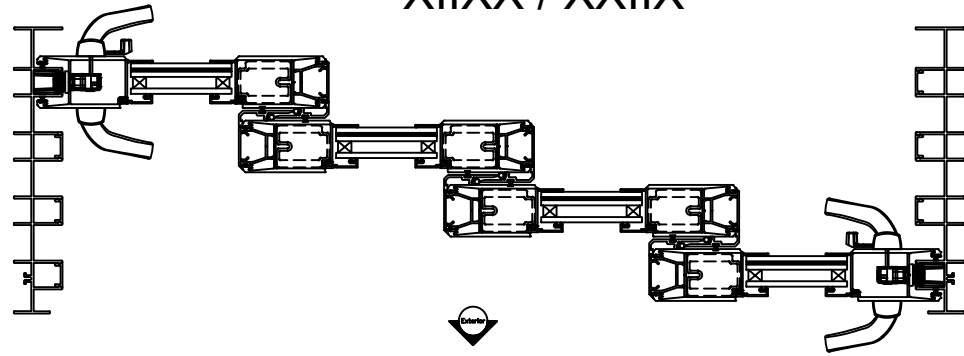


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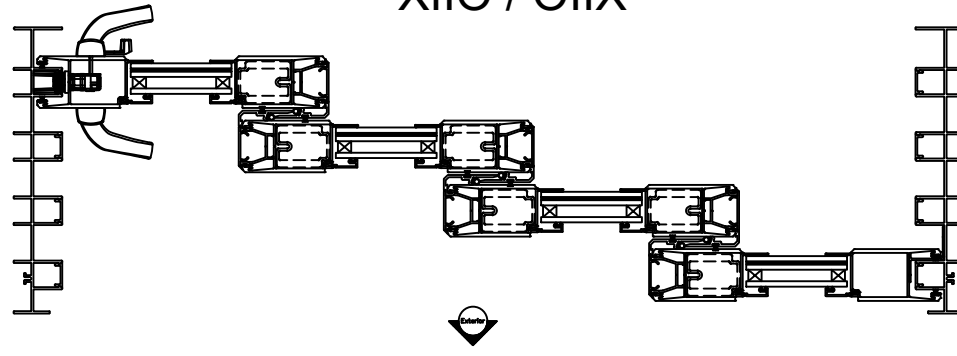
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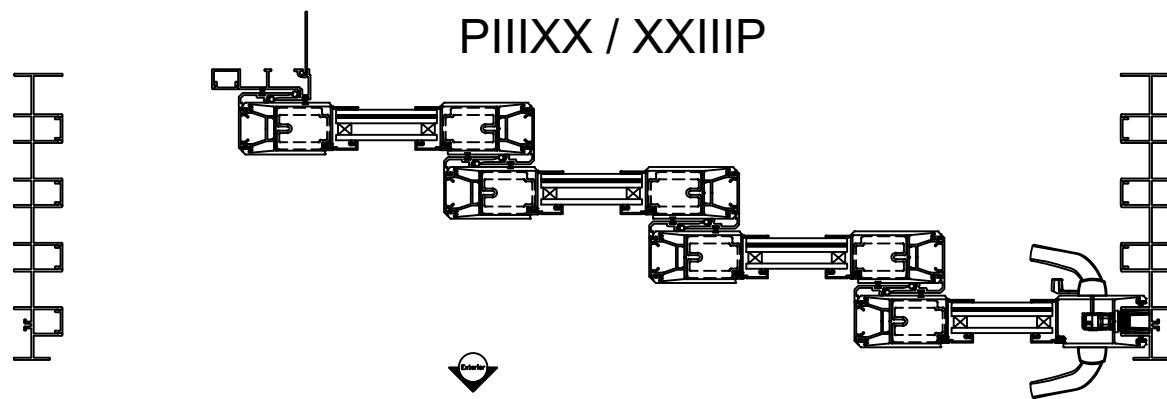
XIIXX / XXIIX



XIIIO / OIIIX



PIIIXX / XXIIP



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**120MD/130MD/140MD SGD
4-TRACK CONFIGURATIONS**

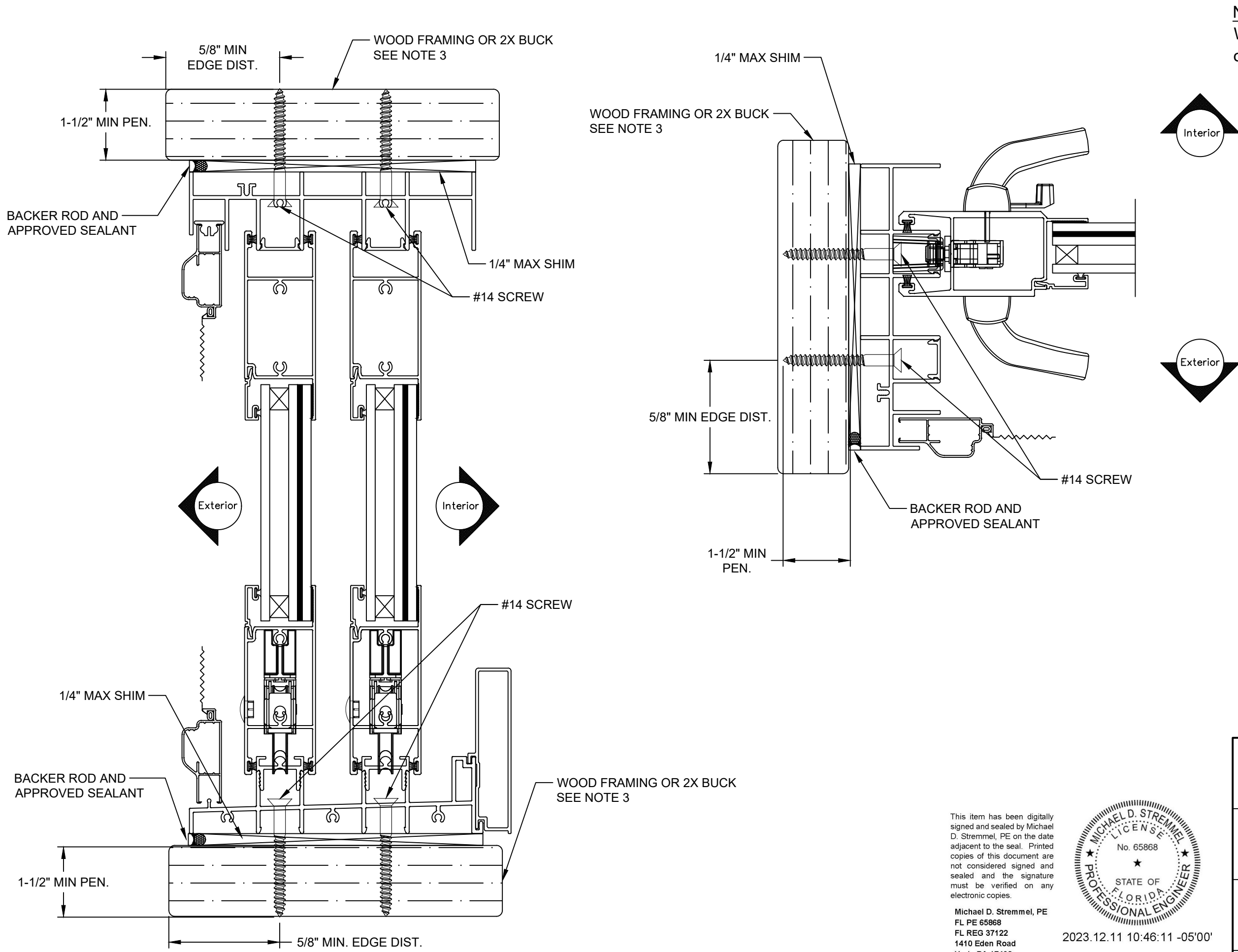
MI Windows and Doors

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Gratz, PA 17030

Drawing No.: 27488.03-1002B
Project No.: 27488.03-107-16
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Sheet 7 of 30



Note:
Waterproofing and interior finishes by others. Not shown for clarity.



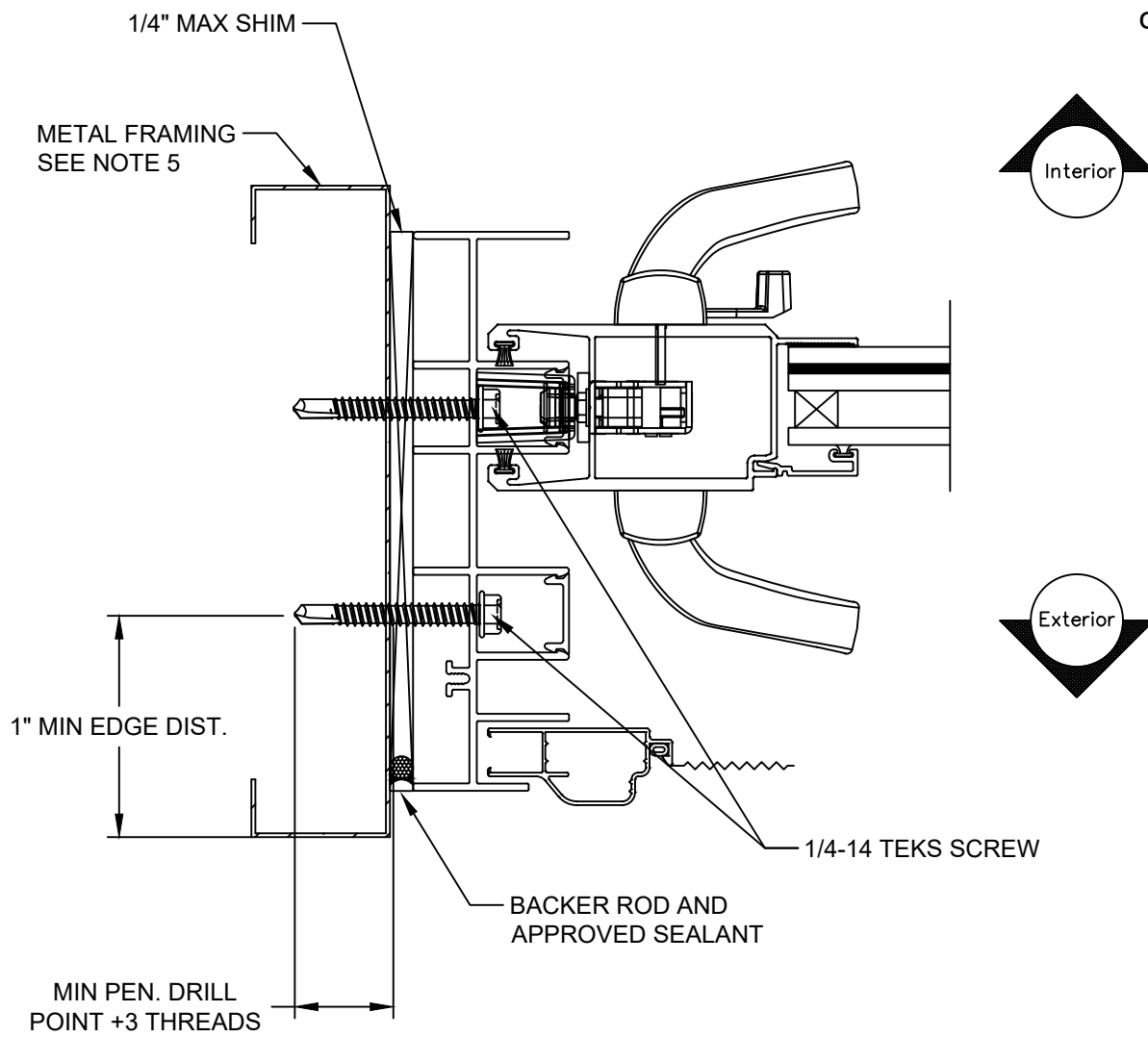
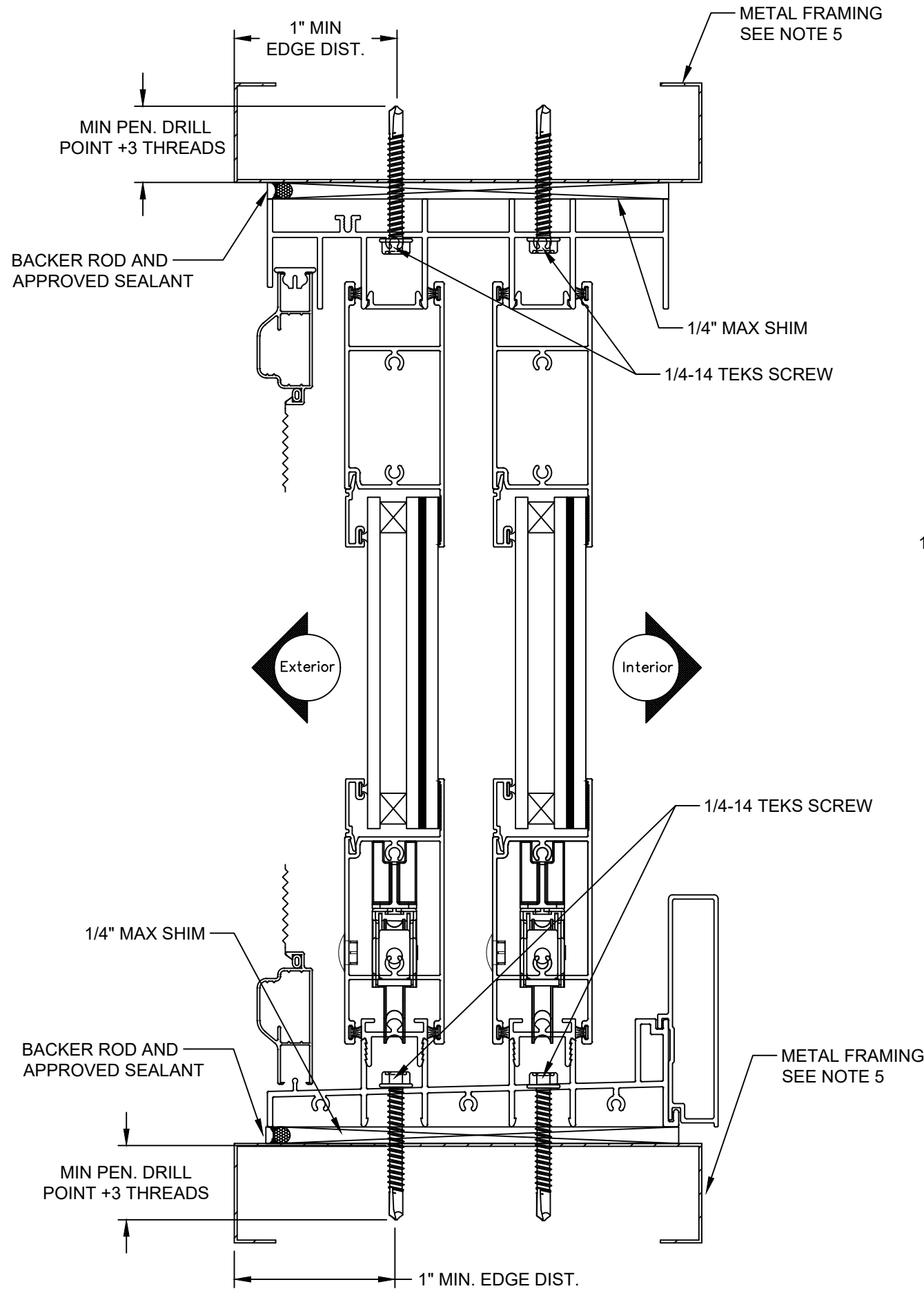
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120MD/130MD/140MD SGD 2-TRACK FINLESS - WOOD	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
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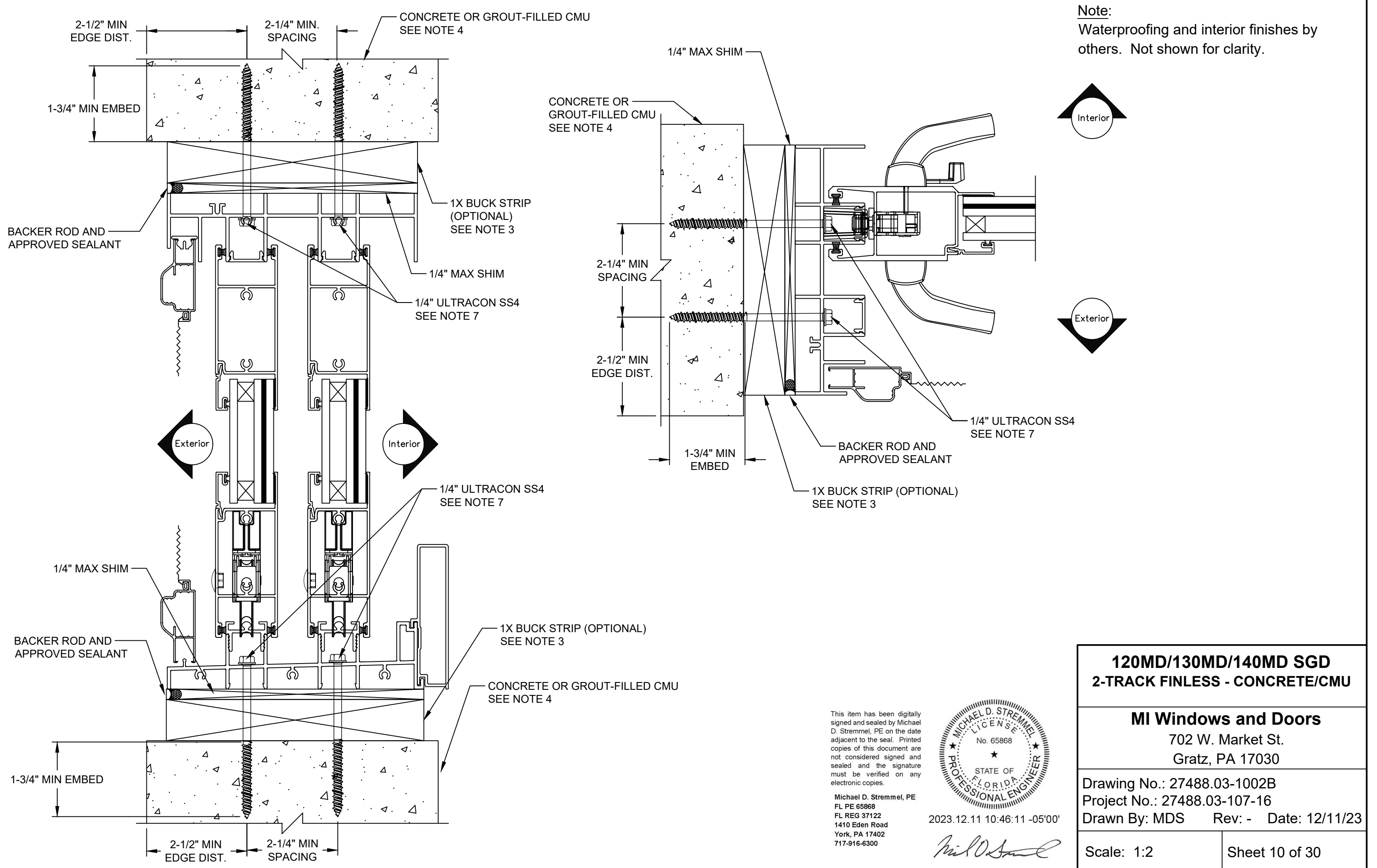
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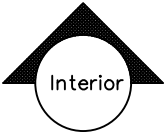
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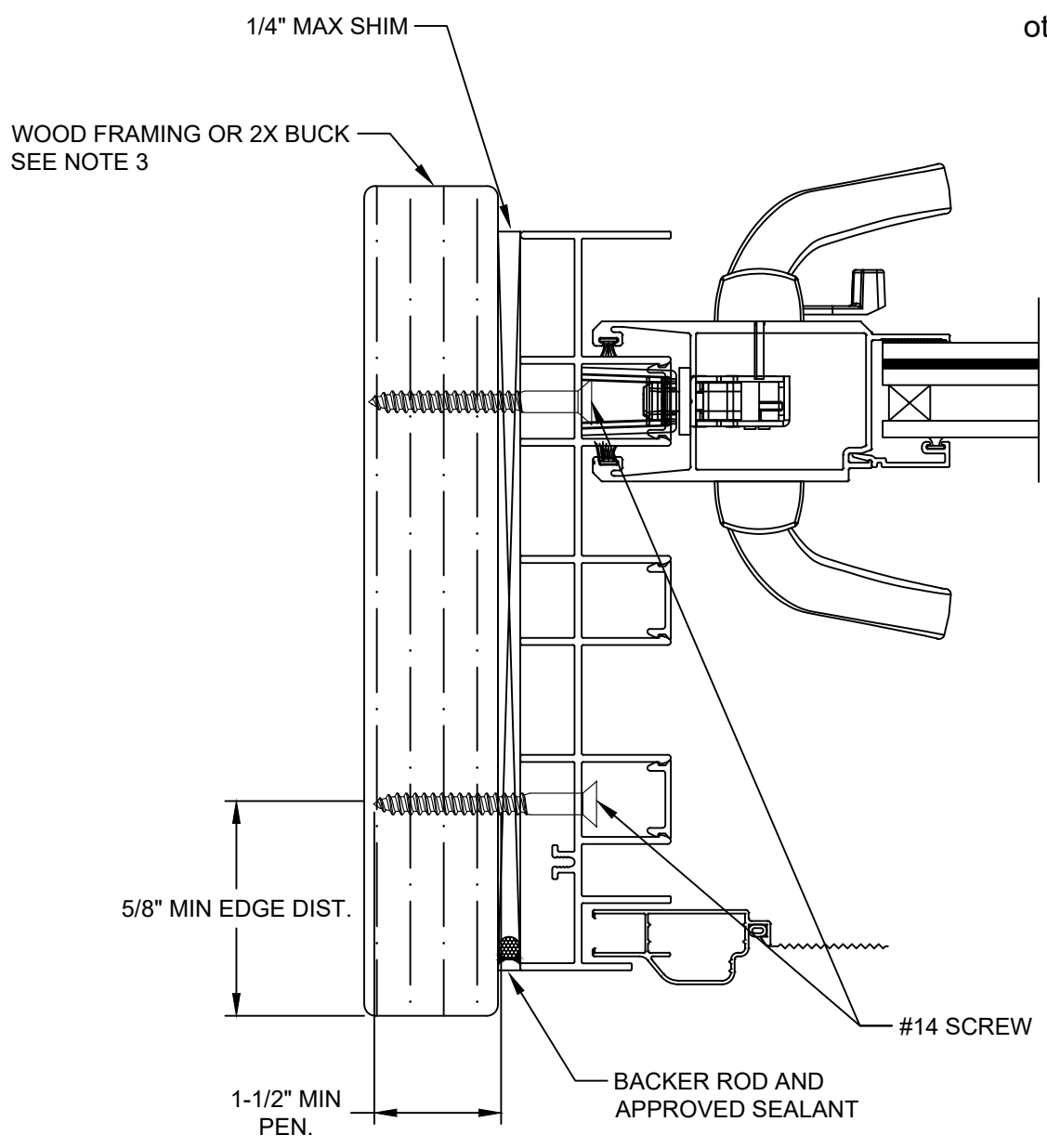
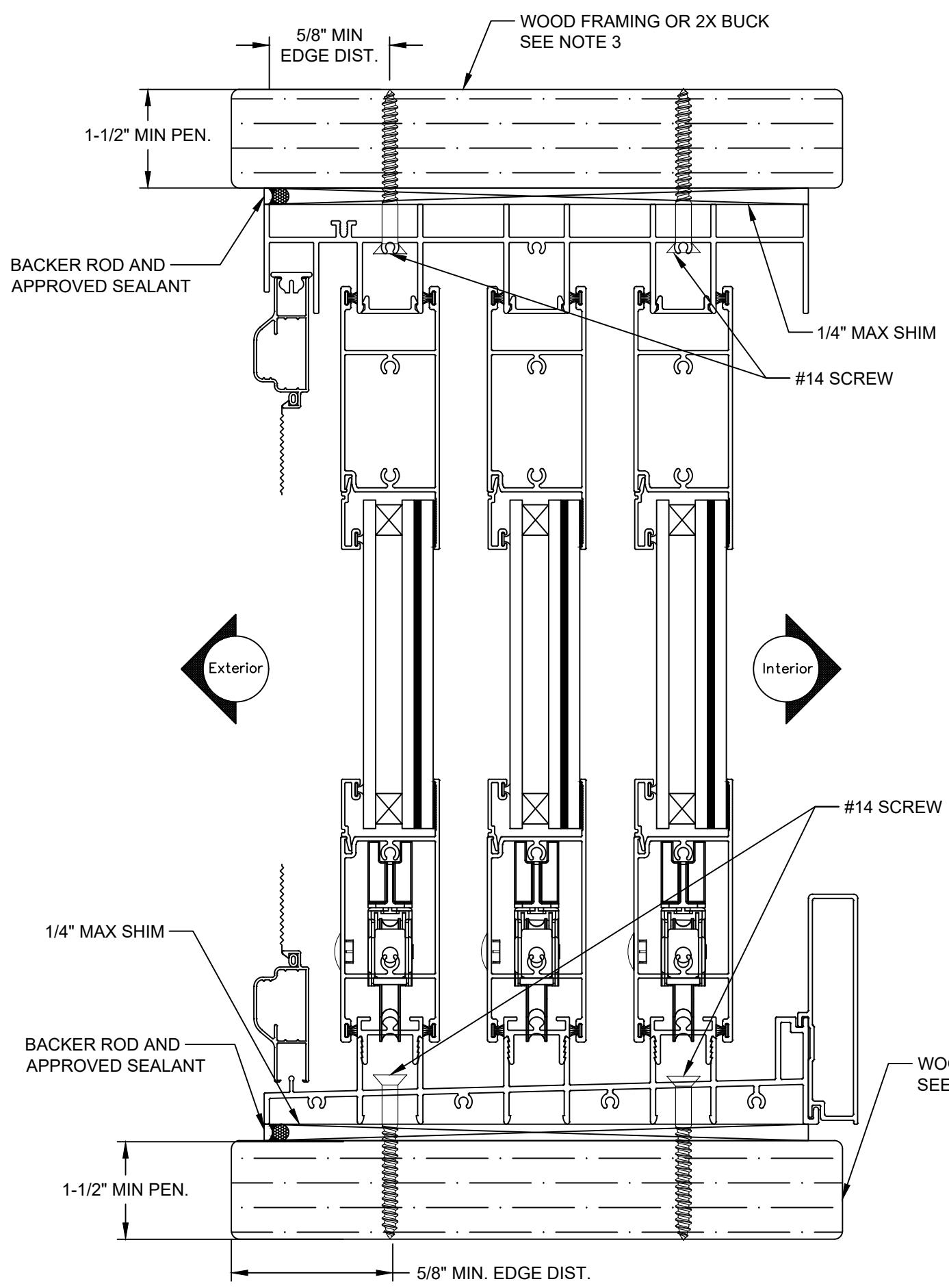
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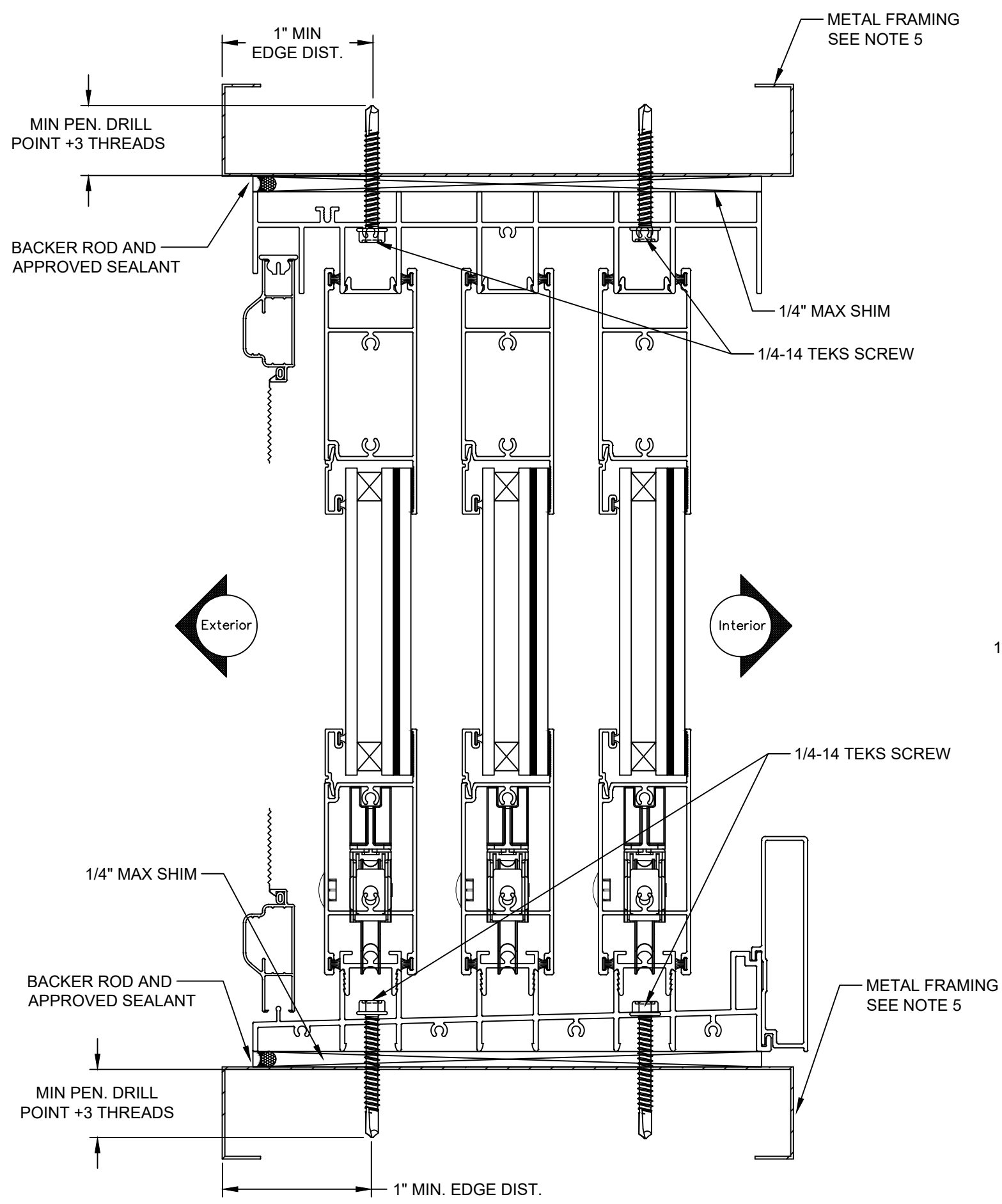
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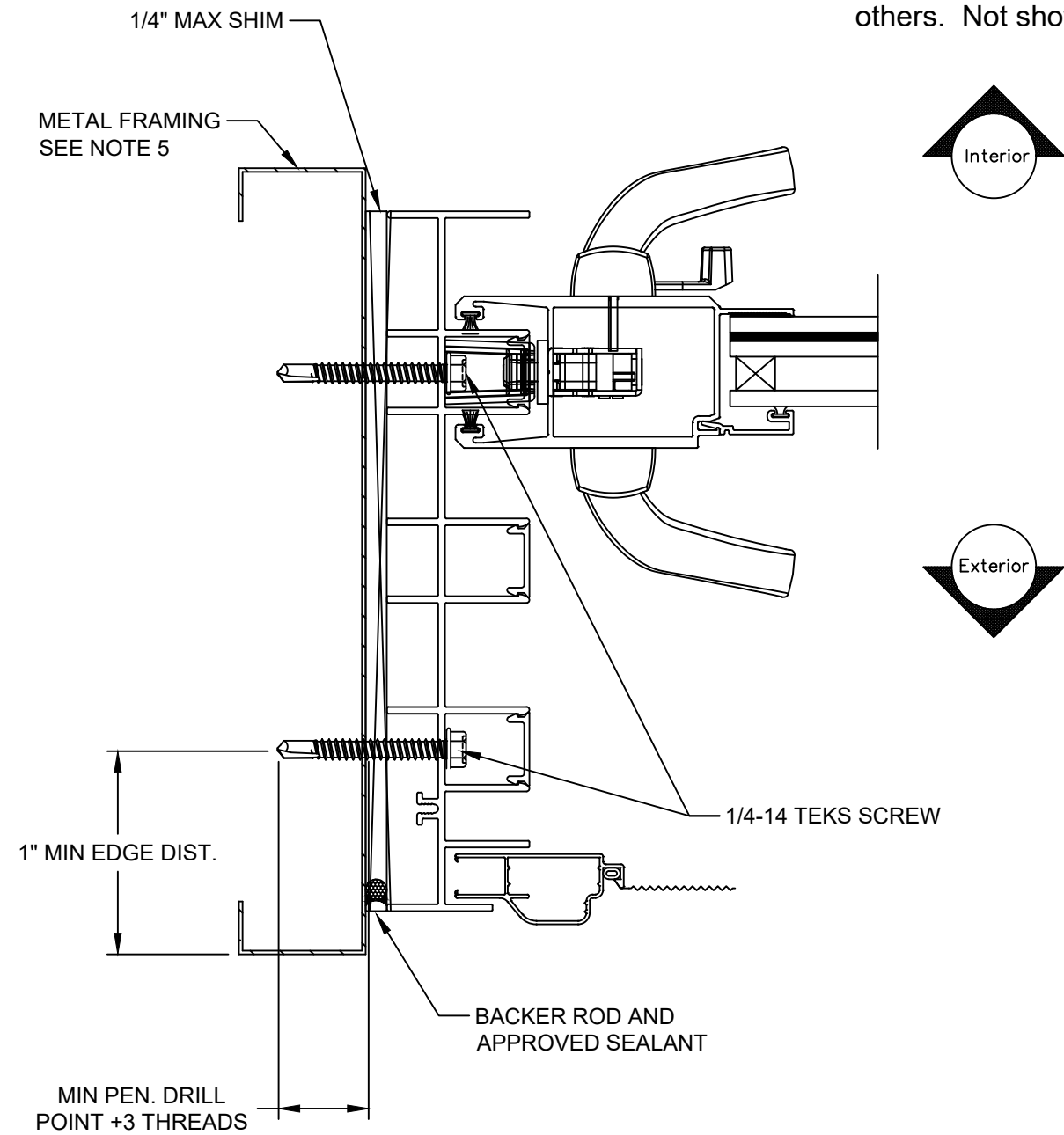
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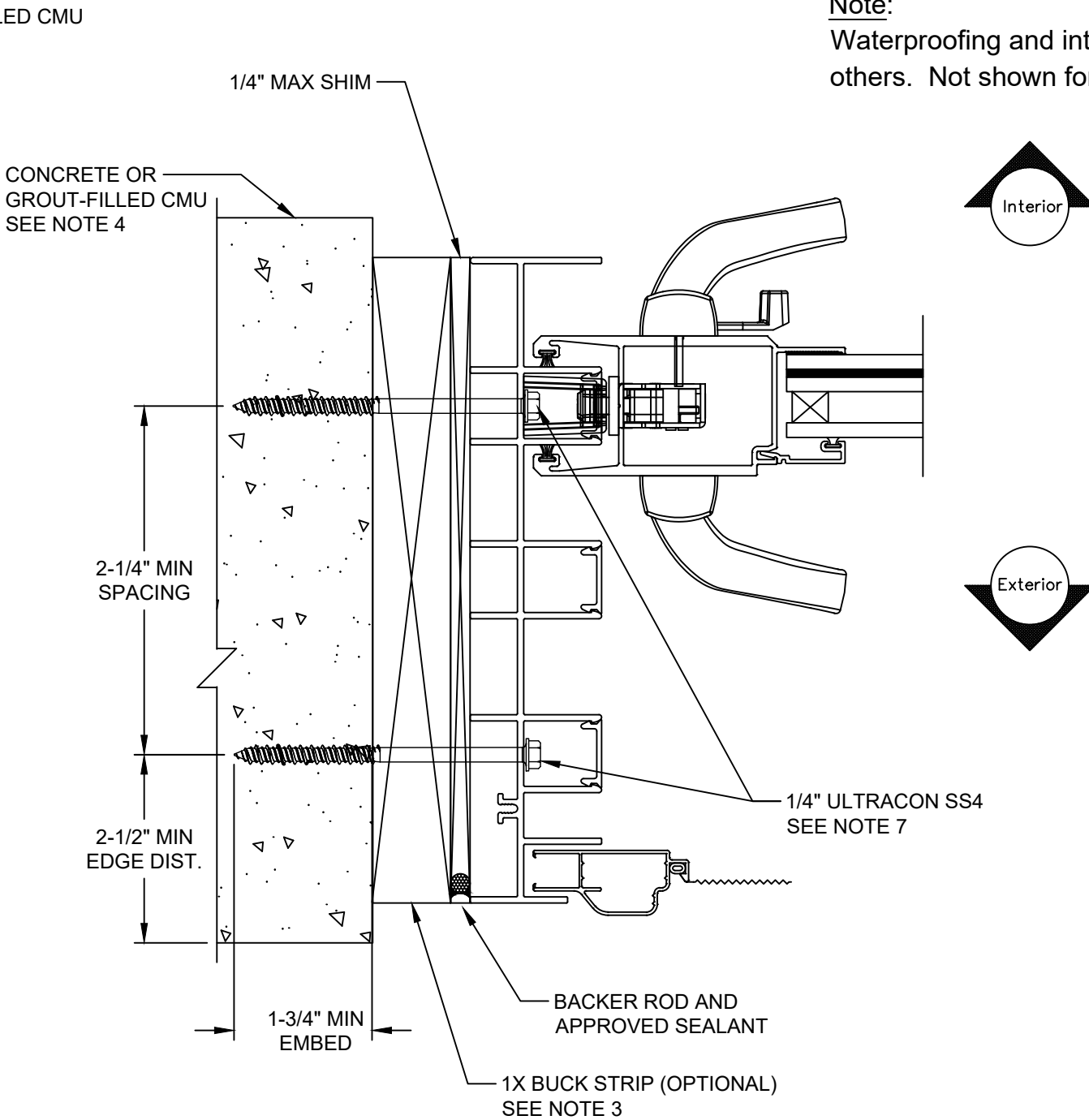
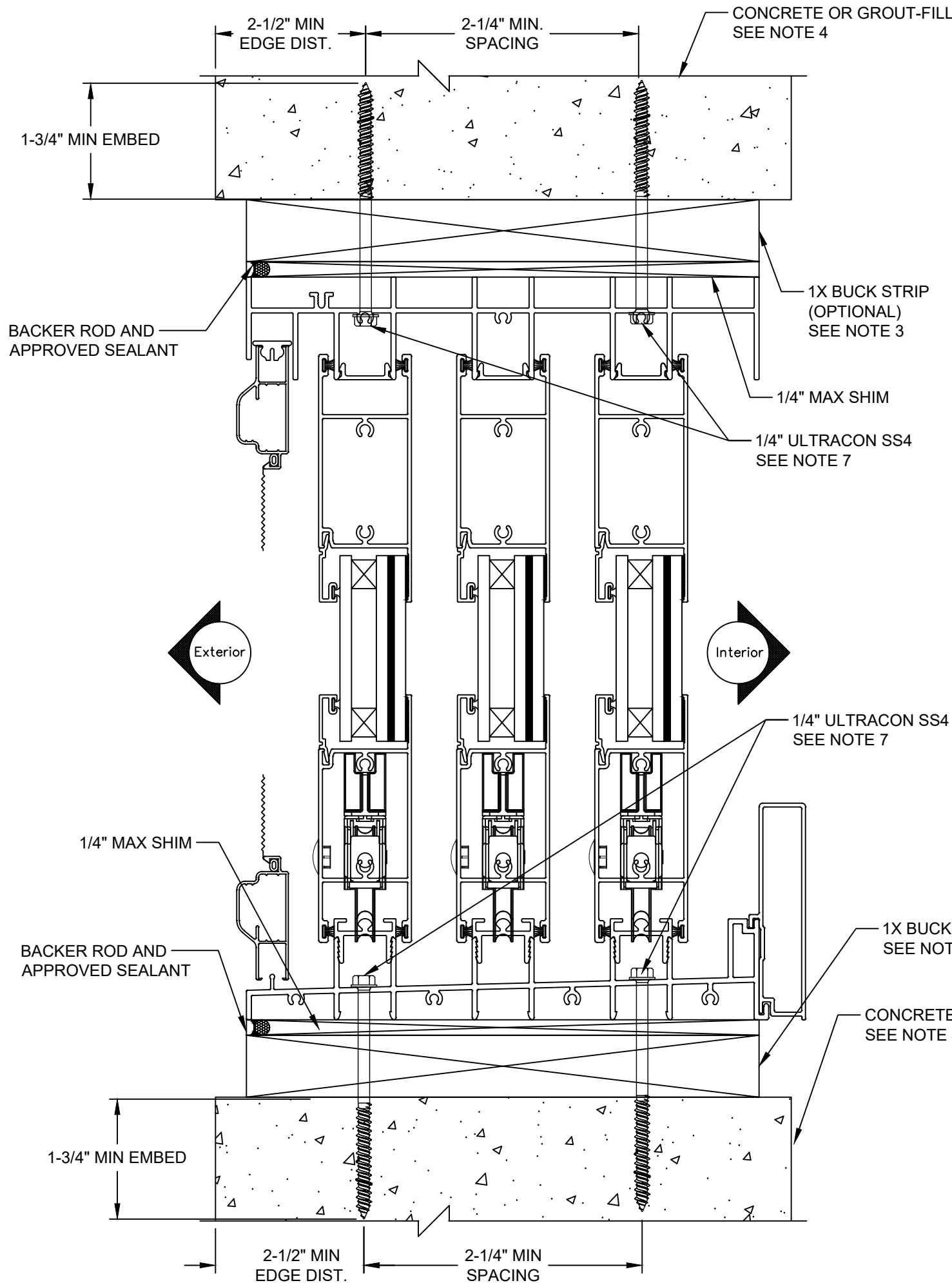
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**120MD/130MD/140MD SGD
3-TRACK FINLESS - METAL**

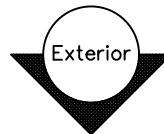
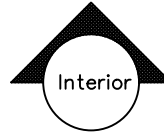
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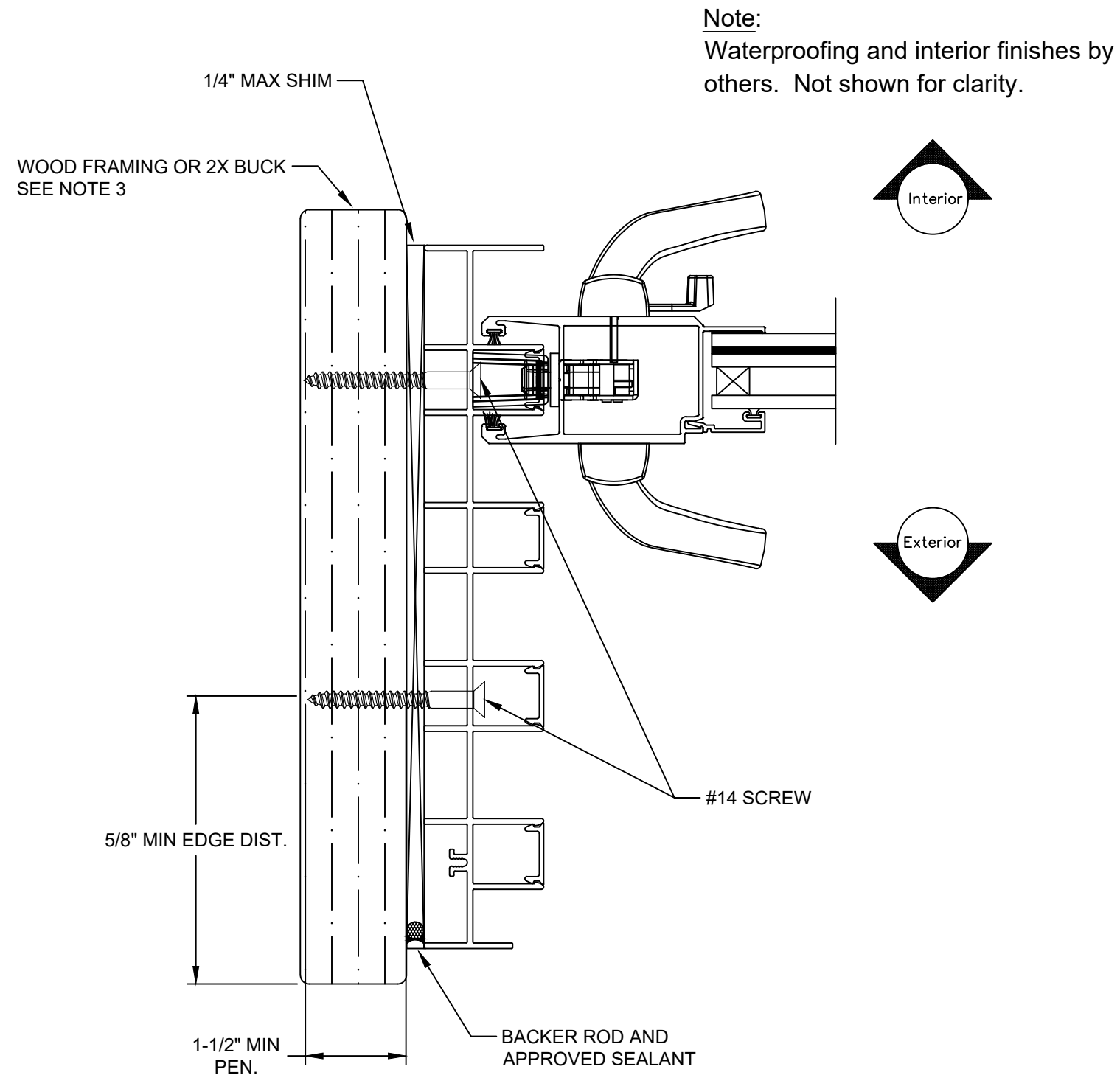
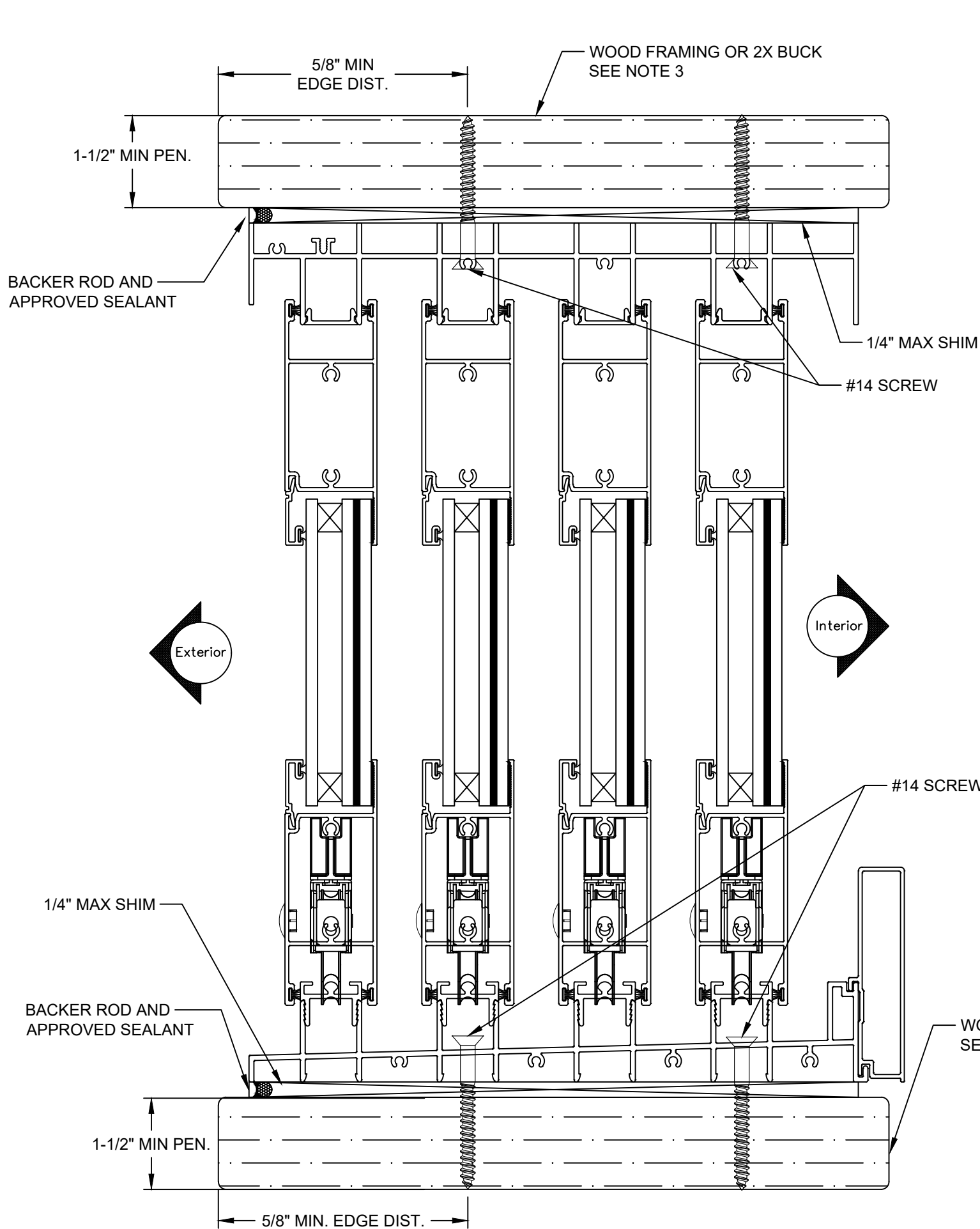
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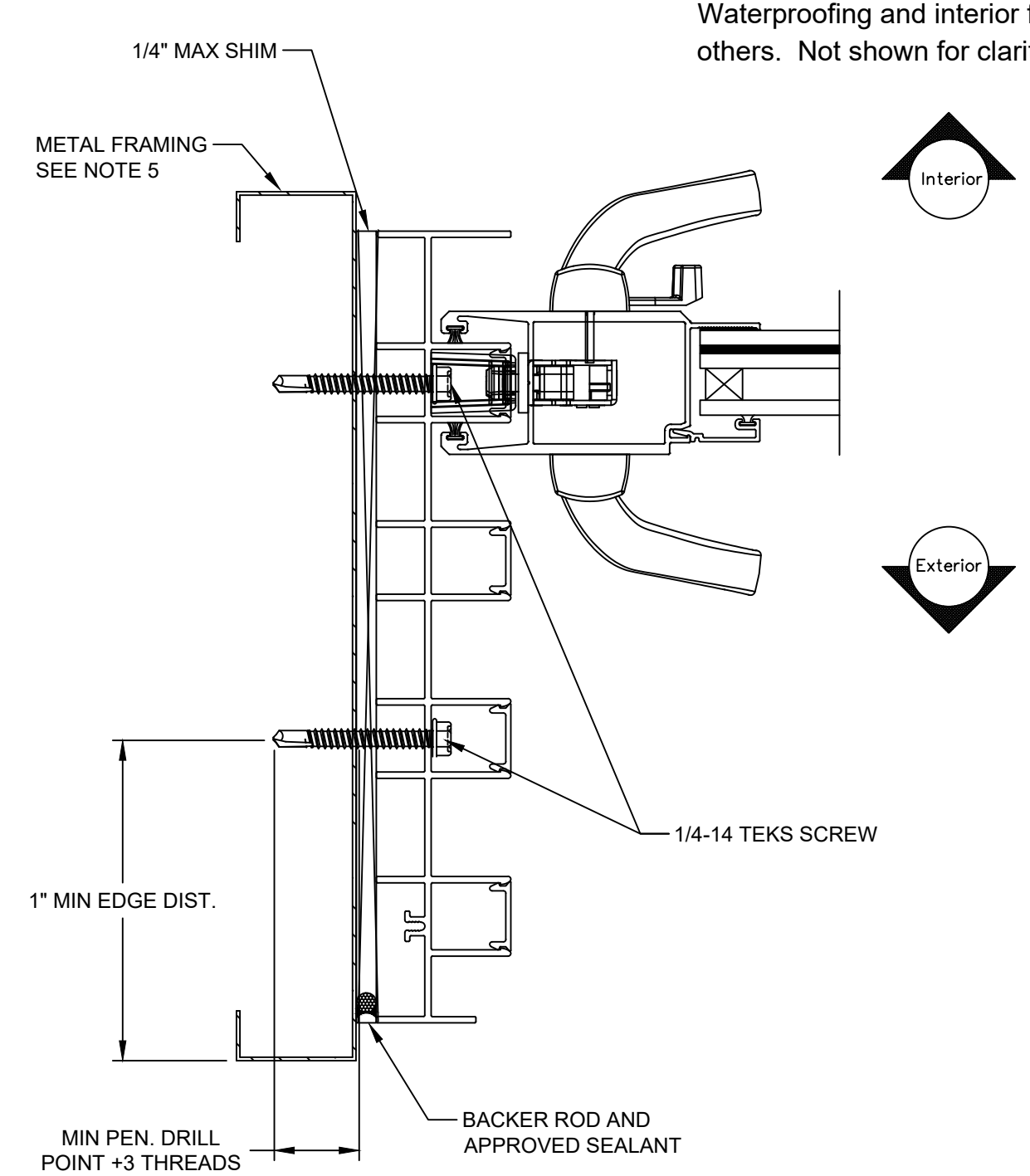
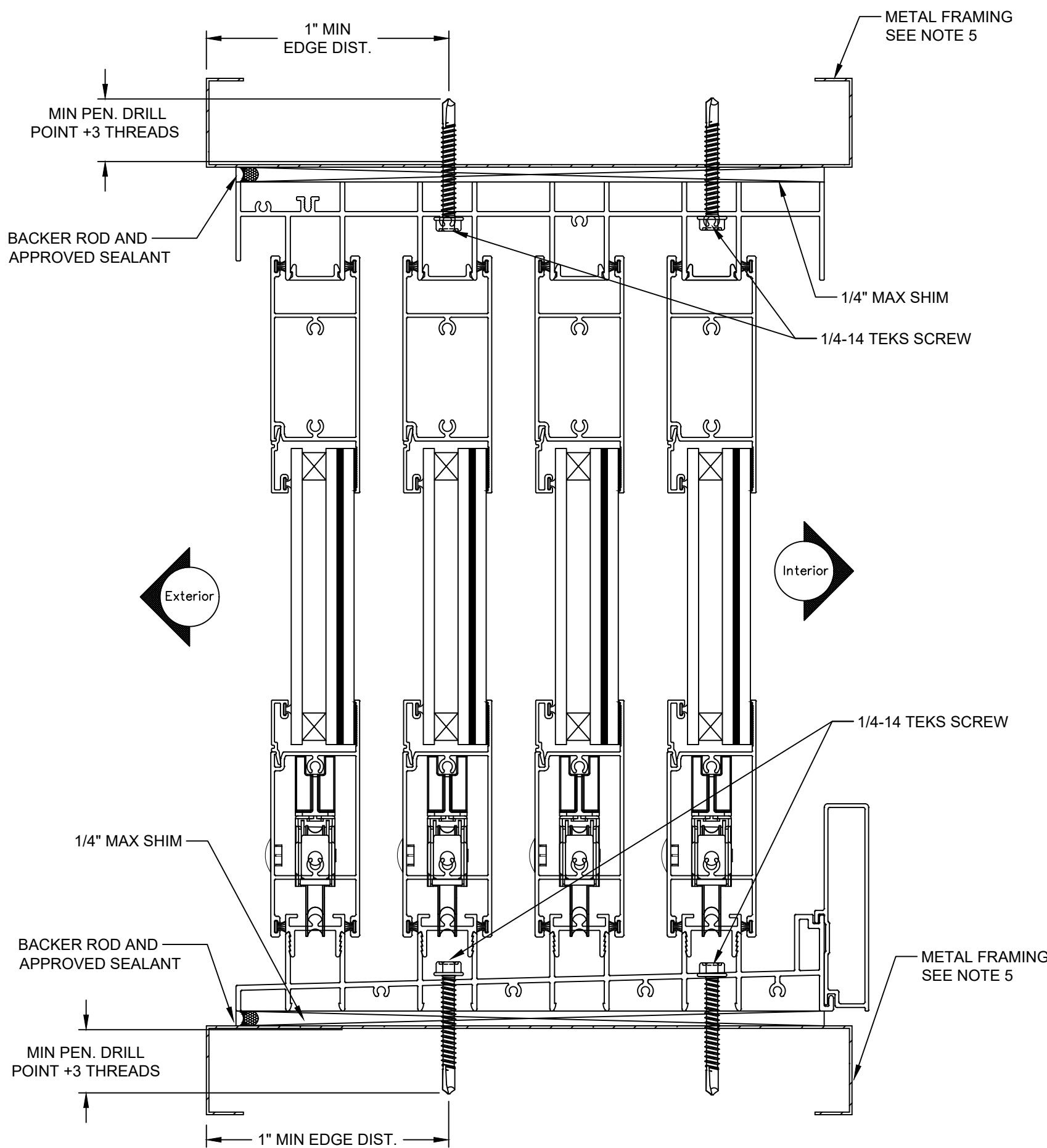
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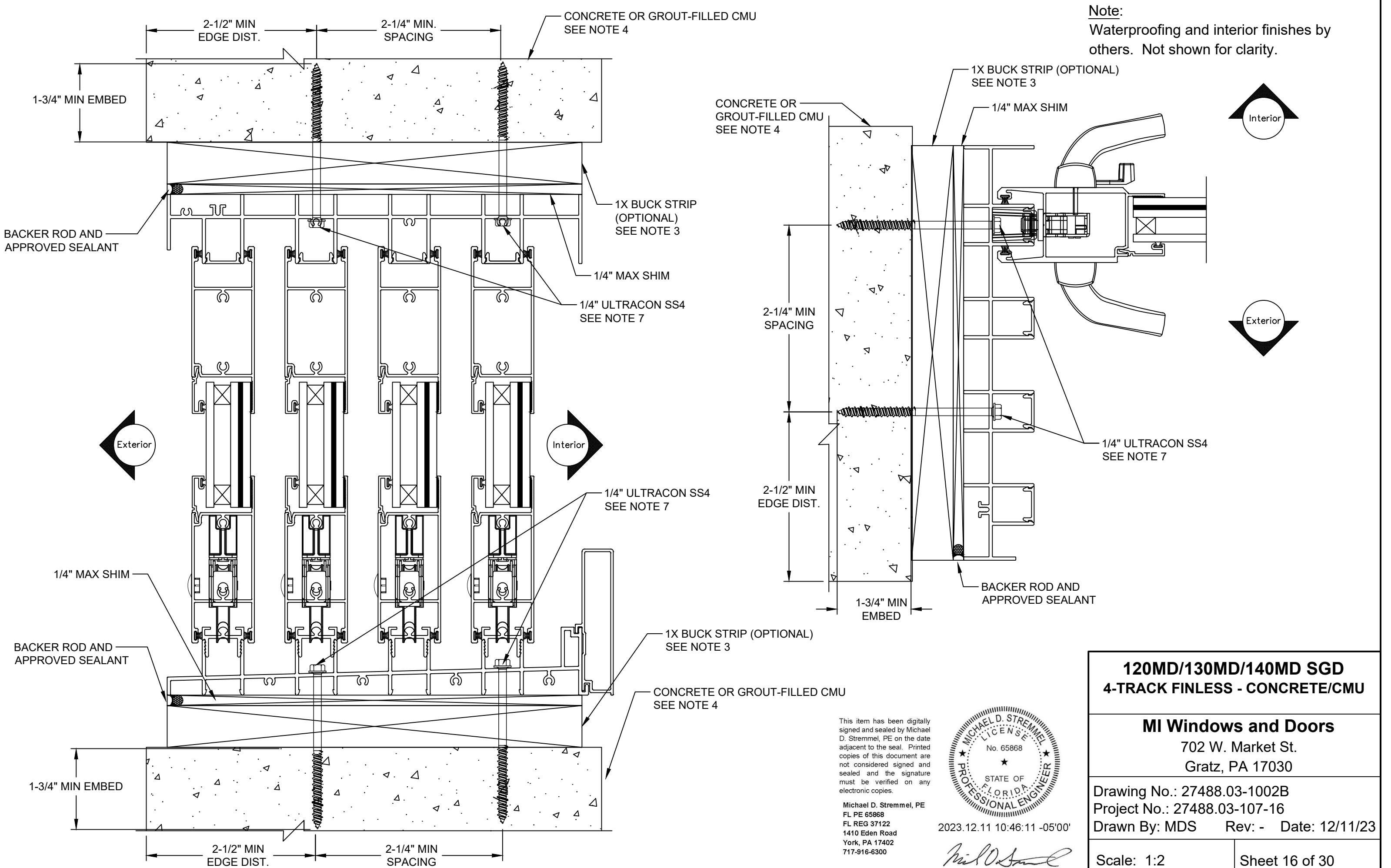
Michael D. Stremmel, PE
FL PE 65868
FL REG 37122
1410 Eden Road
York, PA 17402
717-916-6300



2023.12.11 10:46:11 -05'00'

Michael D. Stremmel

120MD/130MD/140MD SGD 4-TRACK FINLESS - METAL	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 15 of 30



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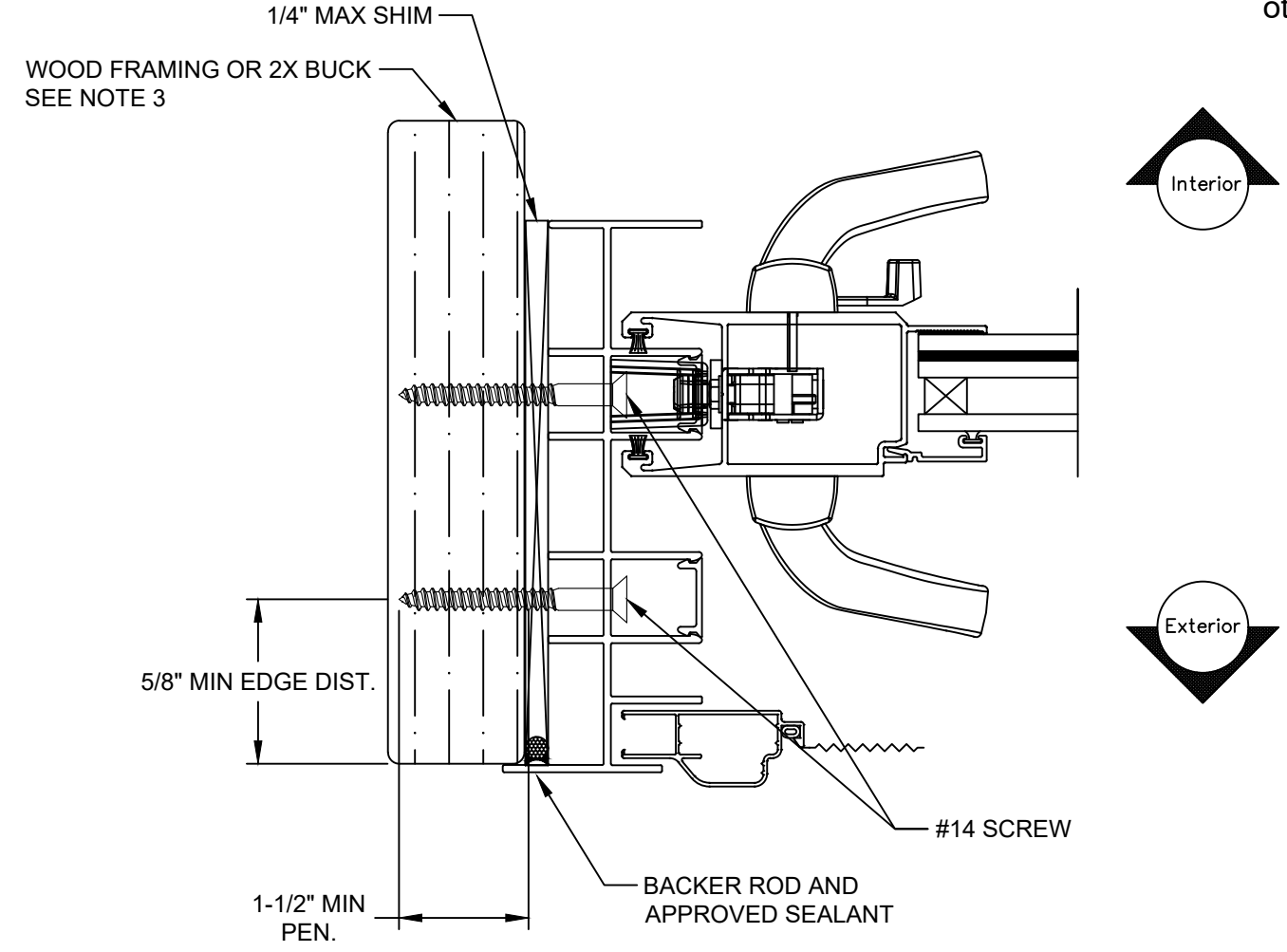
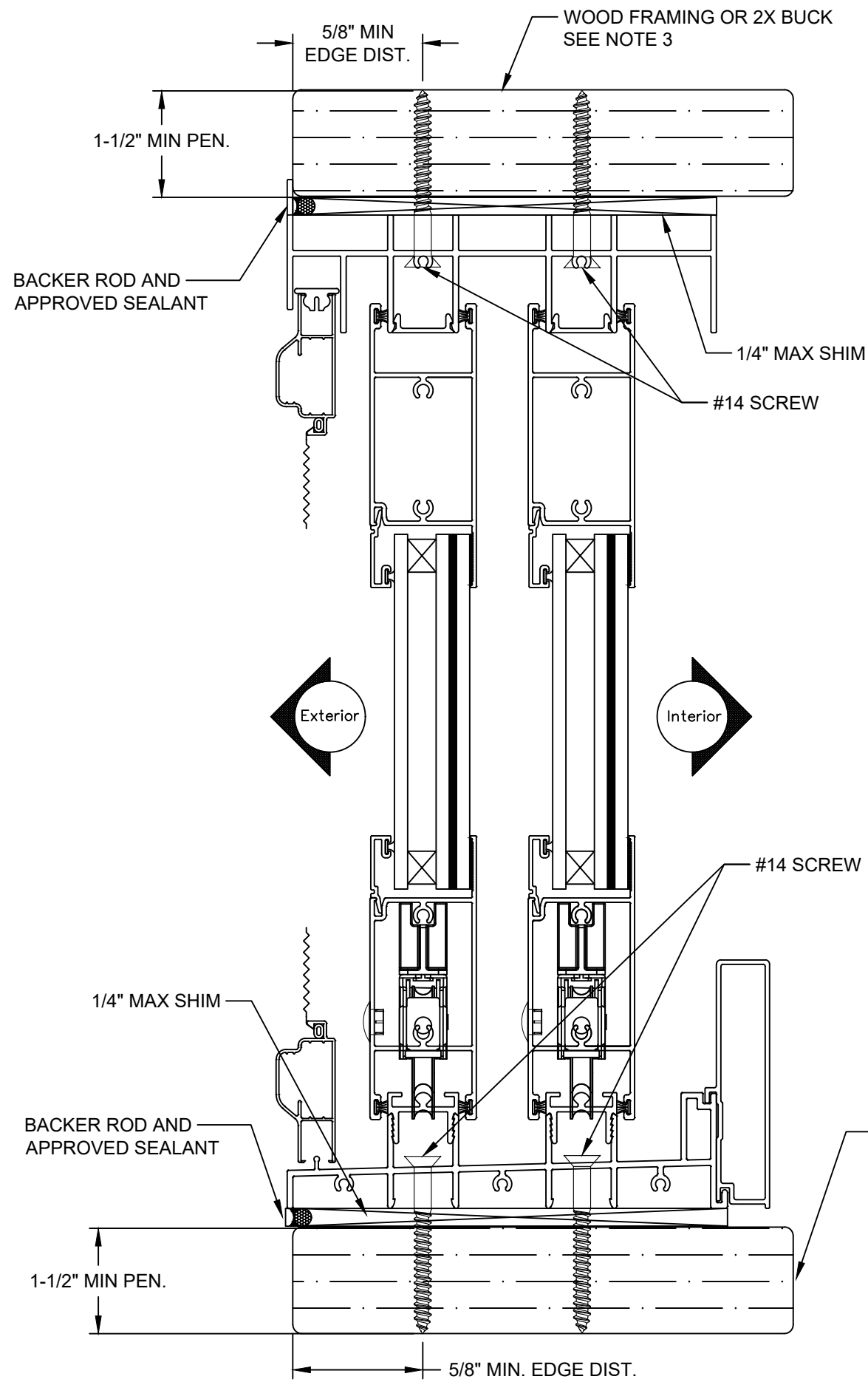


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Michael D. Stremmel

120MD/130MD/140MD SGD 4-TRACK FINLESS - CONCRETE/CMU	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 16 of 30

Note:
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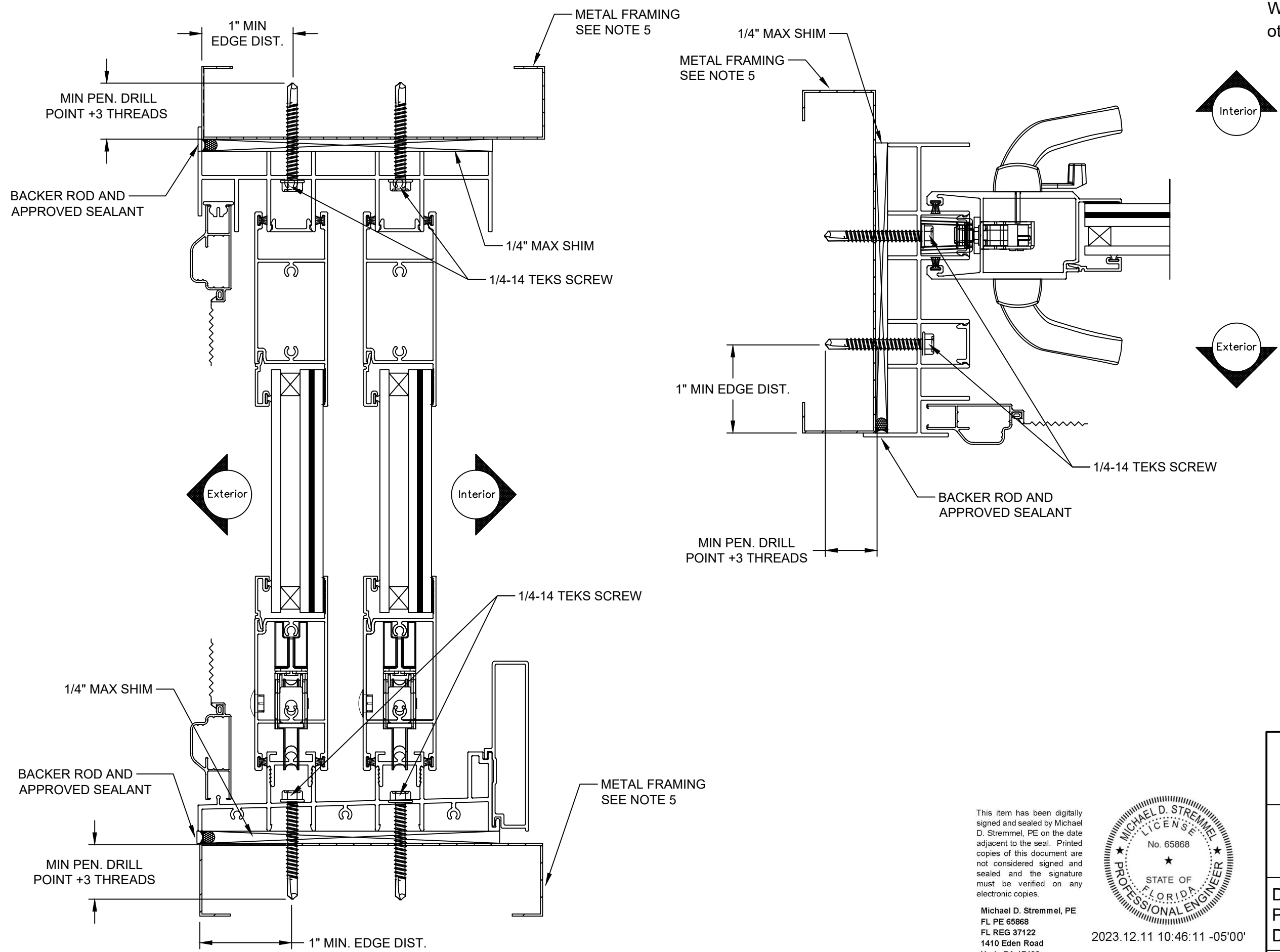


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Michael D. Stremmel

120MD/130MD/140MD SGD 2-TRACK FLANGE - WOOD	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 17 of 30

Note:
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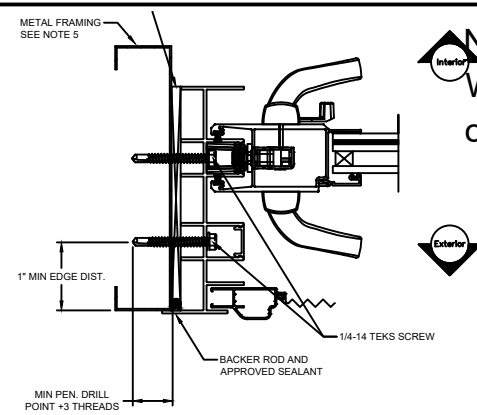
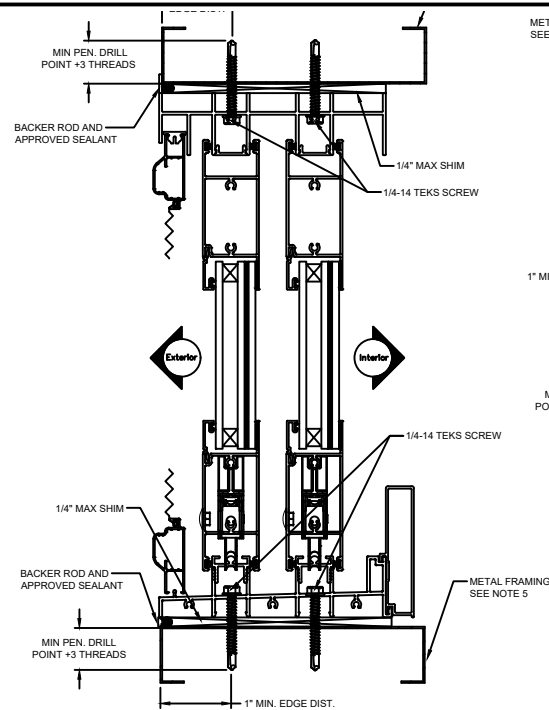
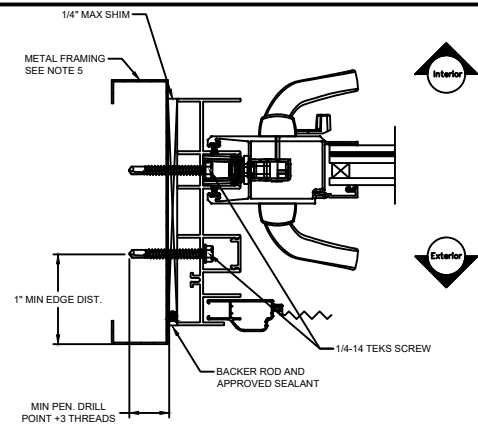
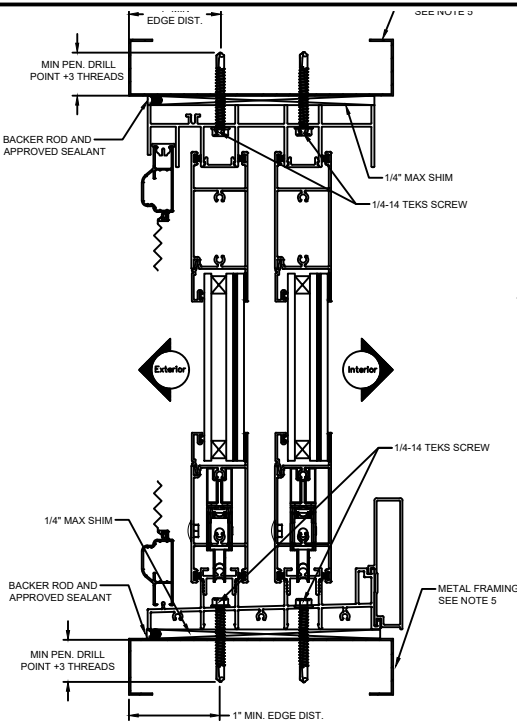
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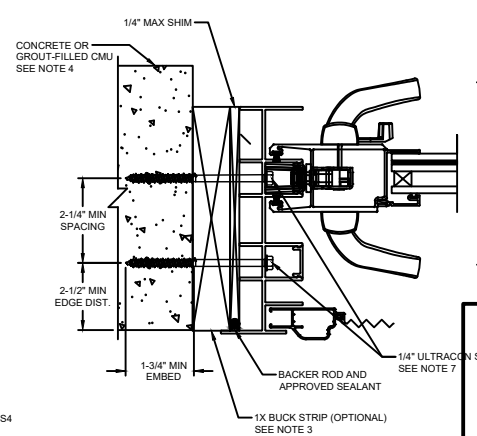
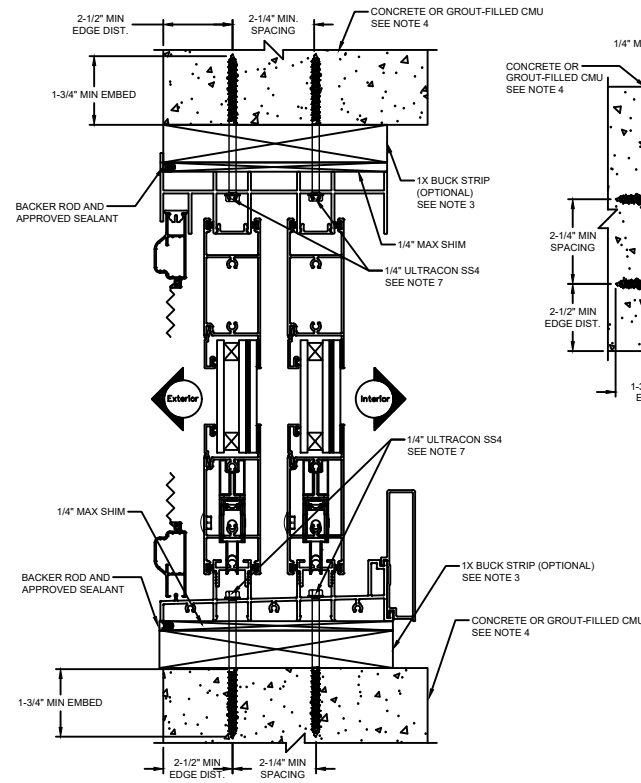
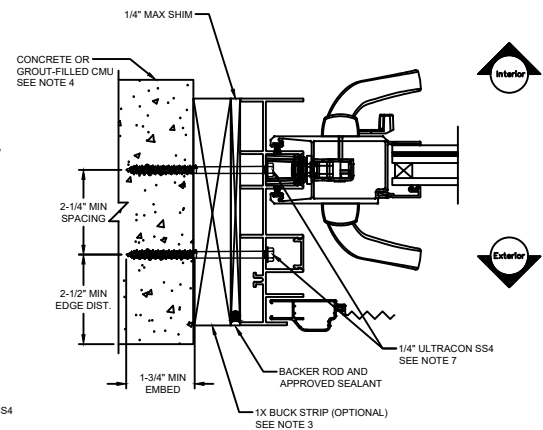
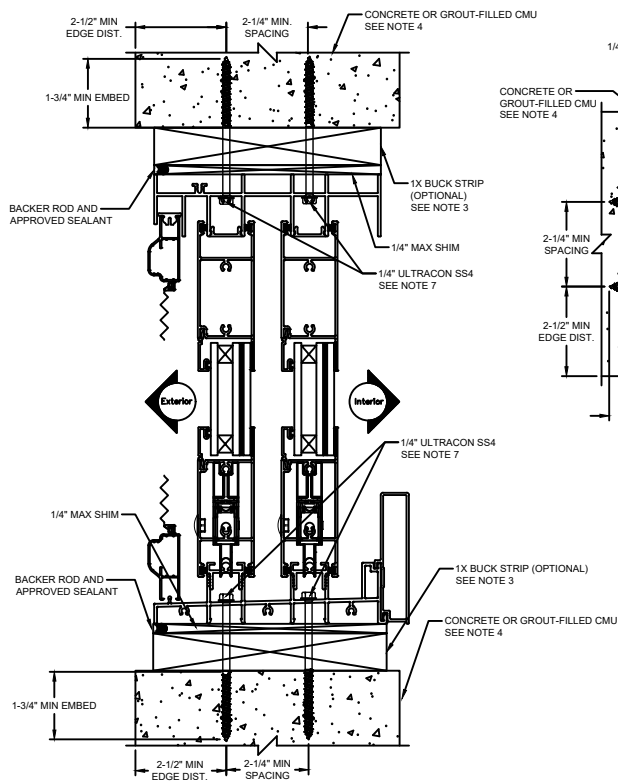
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Michael D. Stremmel

120MD/130MD/140MD SGD 2-TRACK FLANGE - METAL	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 18 of 30



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120MD/130MD/140MD SGD 2-TRACK FLANGE - CONCRETE/CMU

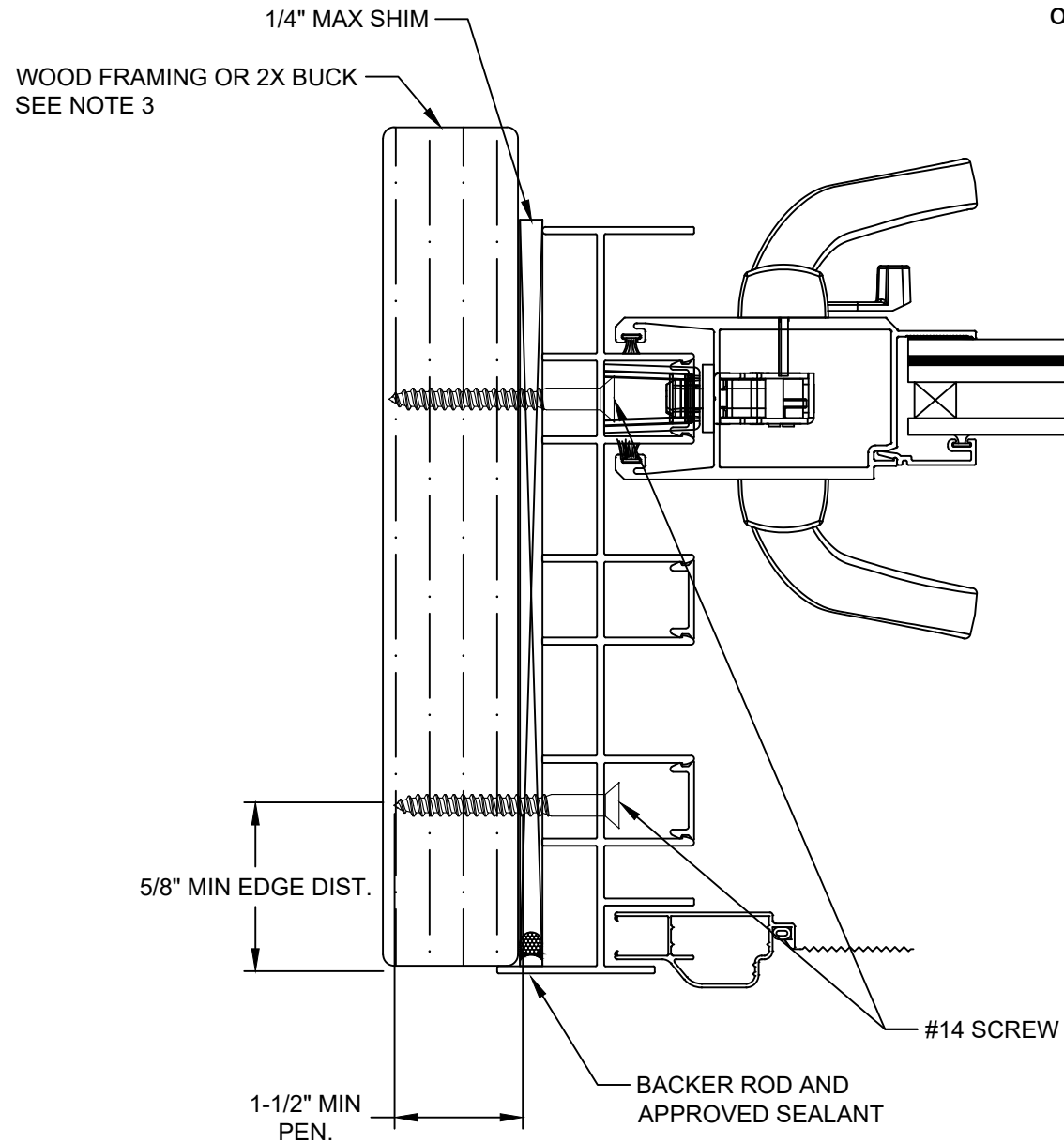
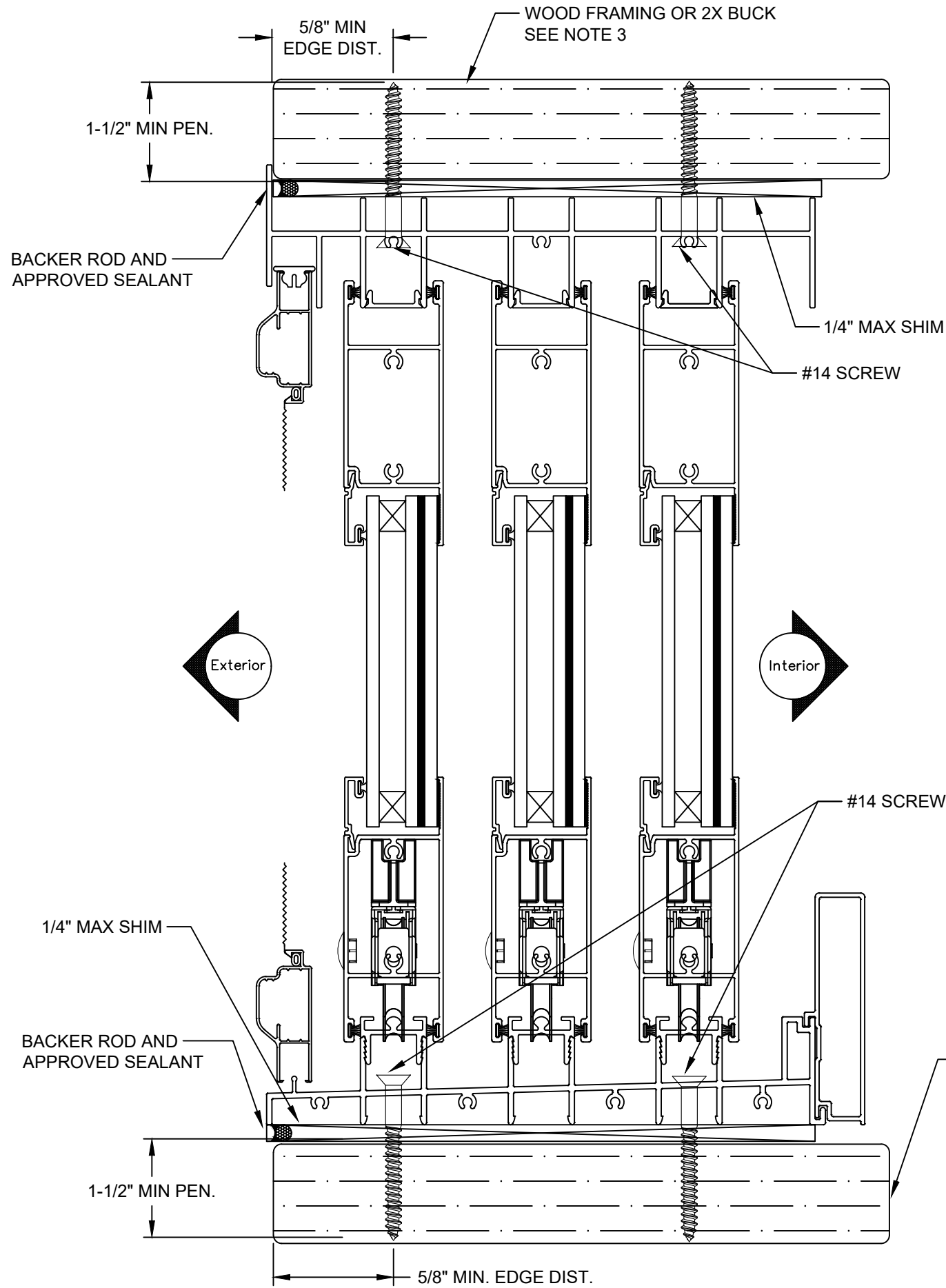
MI Windows and Doors
702 W. Market St.
Gratz, PA 17030

Drawing No.: 27488.03-1002B
Project No.: 27488.03-107-16
Drawn By: MDS Rev: - Date: 12/11/23

Scale: 1:2

Sheet 19 of 30

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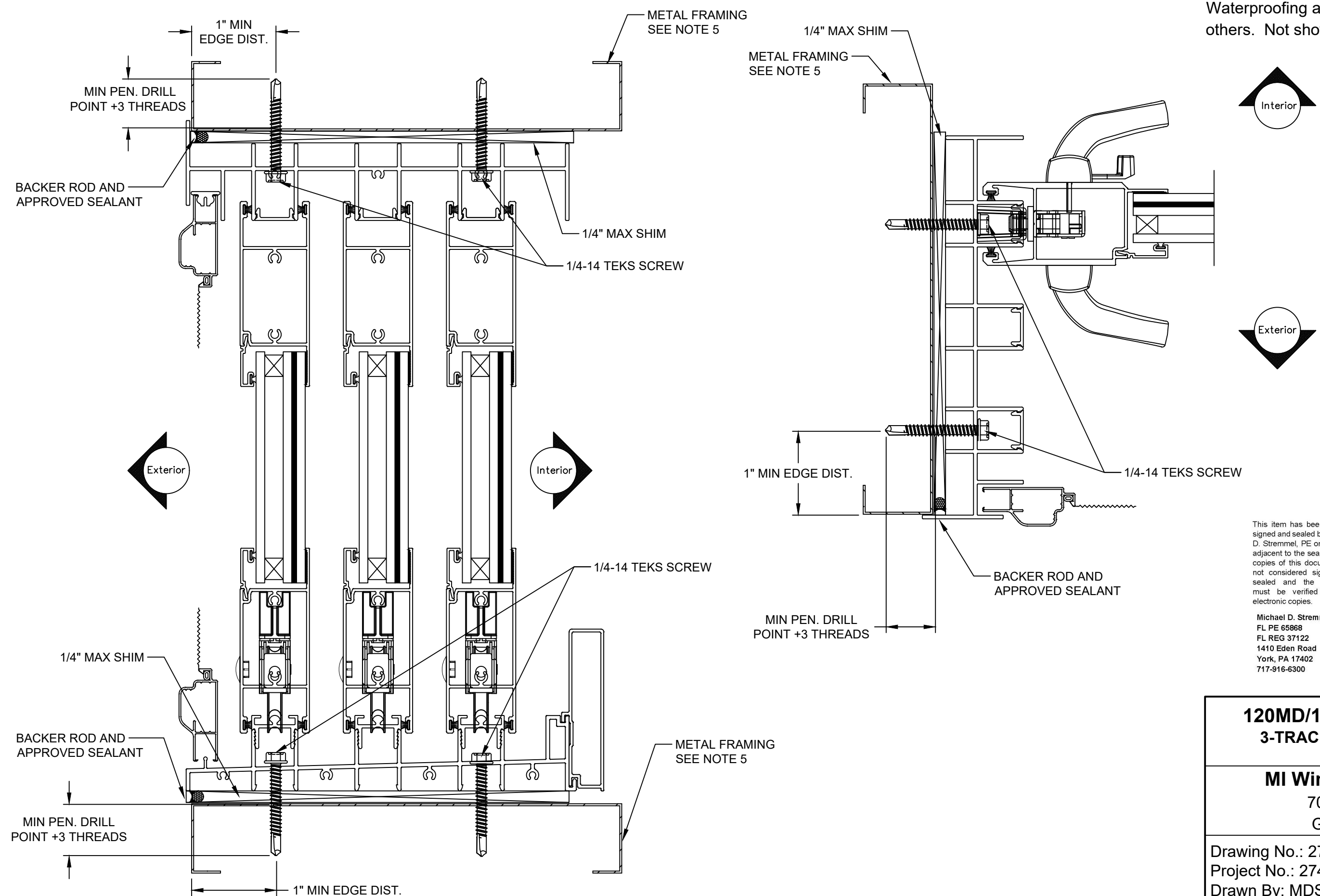


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Michael D. Stremmel

120MD/130MD/140MD SGD 3-TRACK FLANGE - WOOD	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 20 of 30

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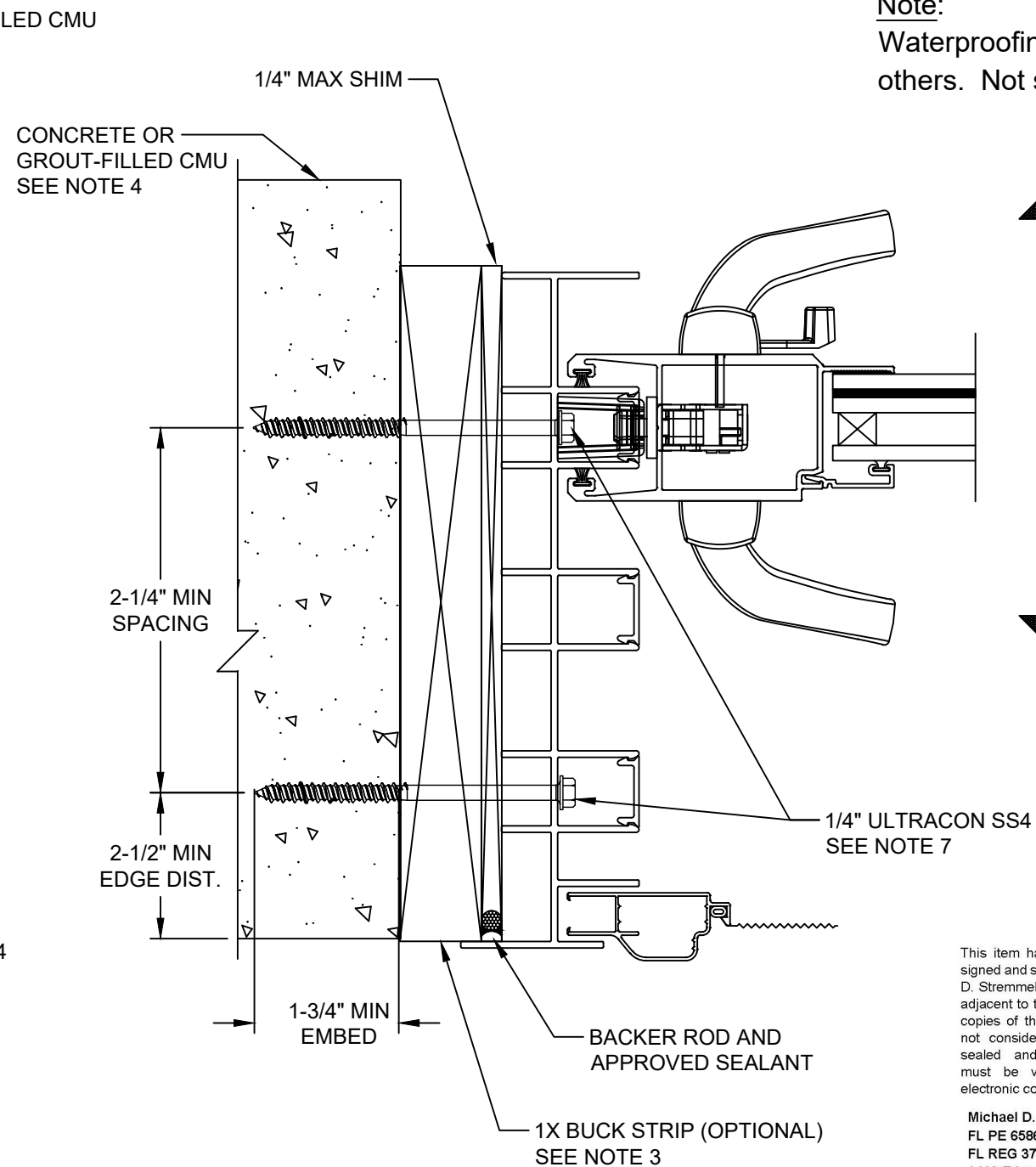
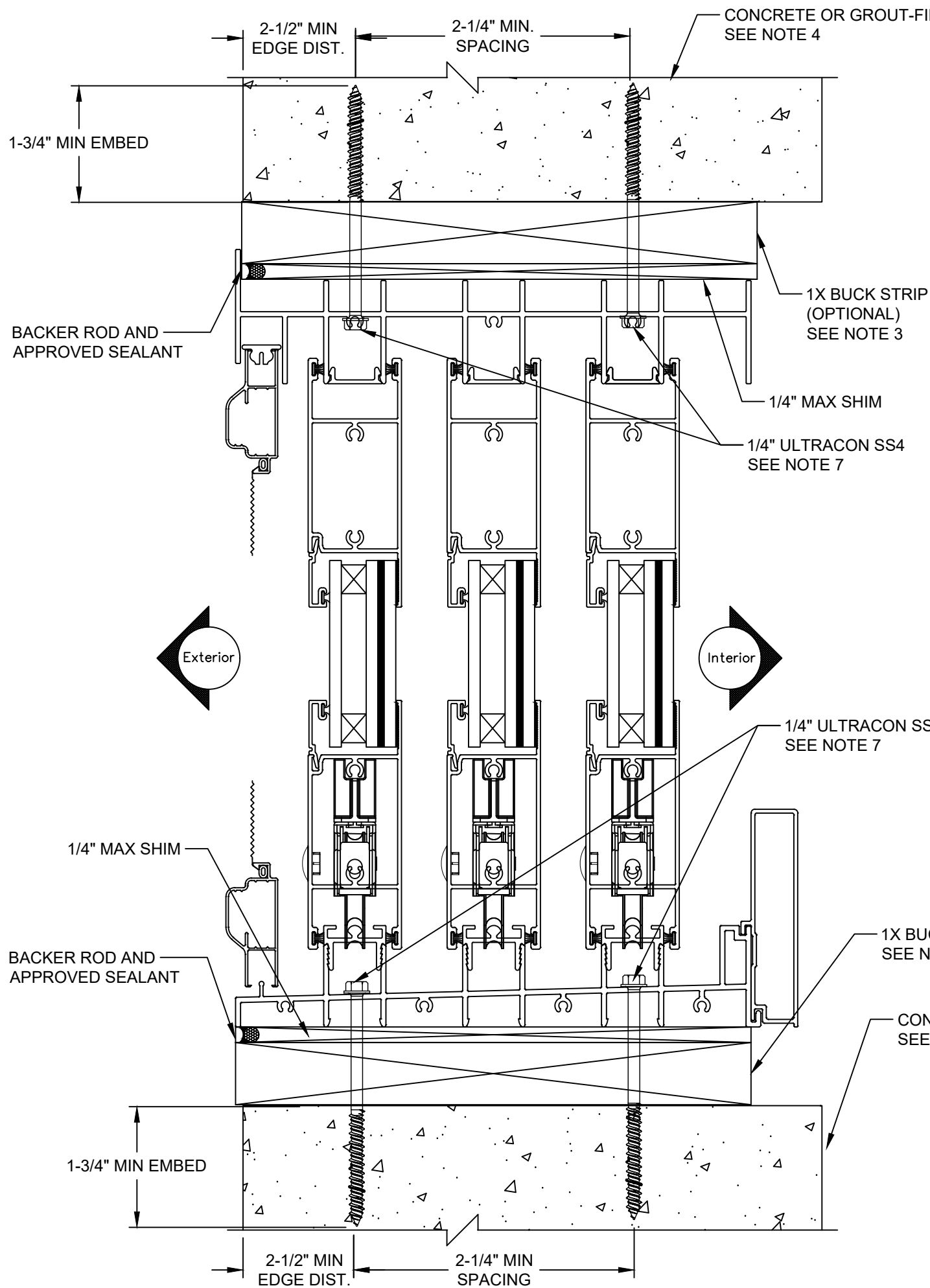
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717-916-6300



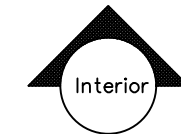
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Michael D. Stremmel

120MD/130MD/140MD SGD 3-TRACK FLANGE - METAL	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 21 of 30



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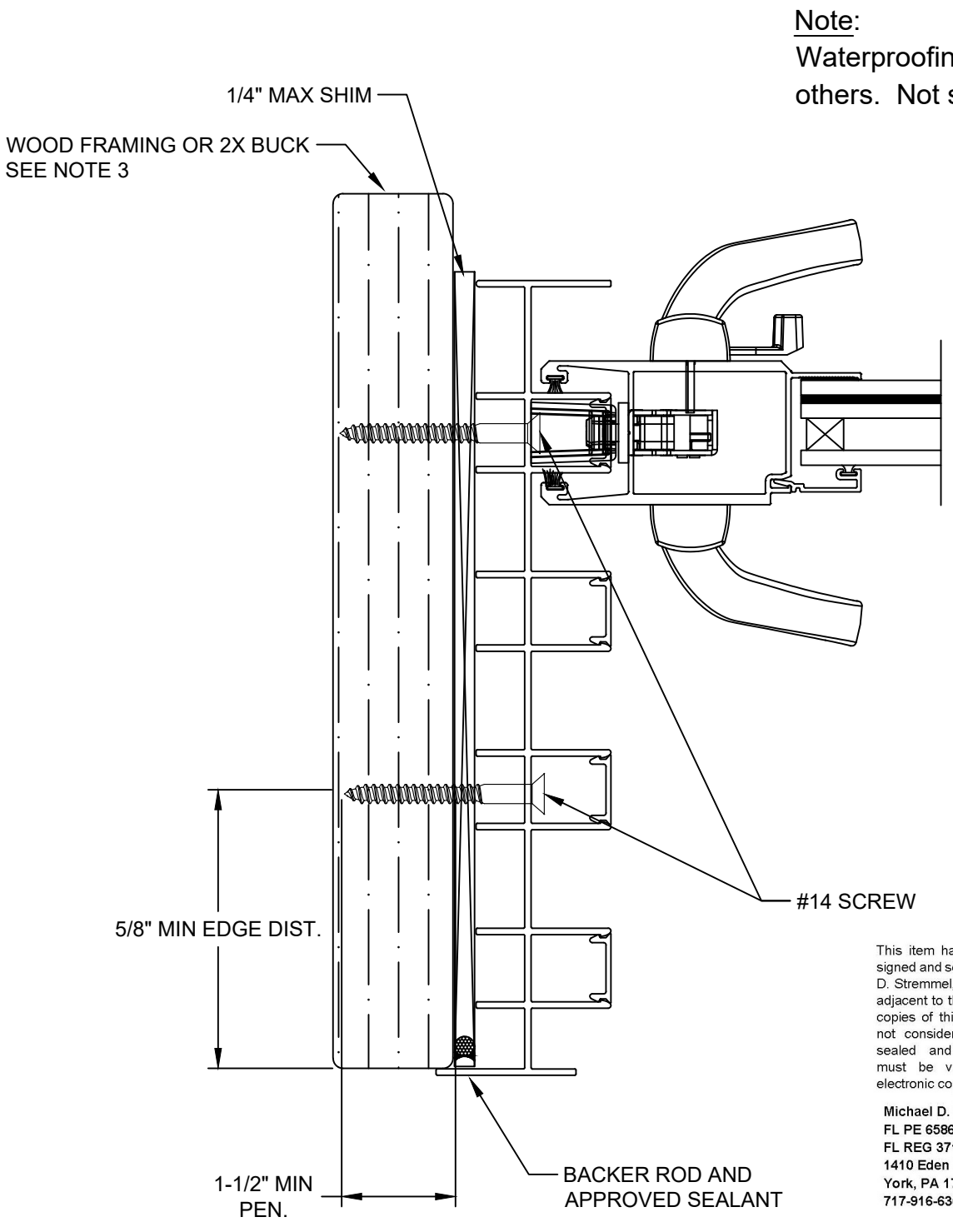
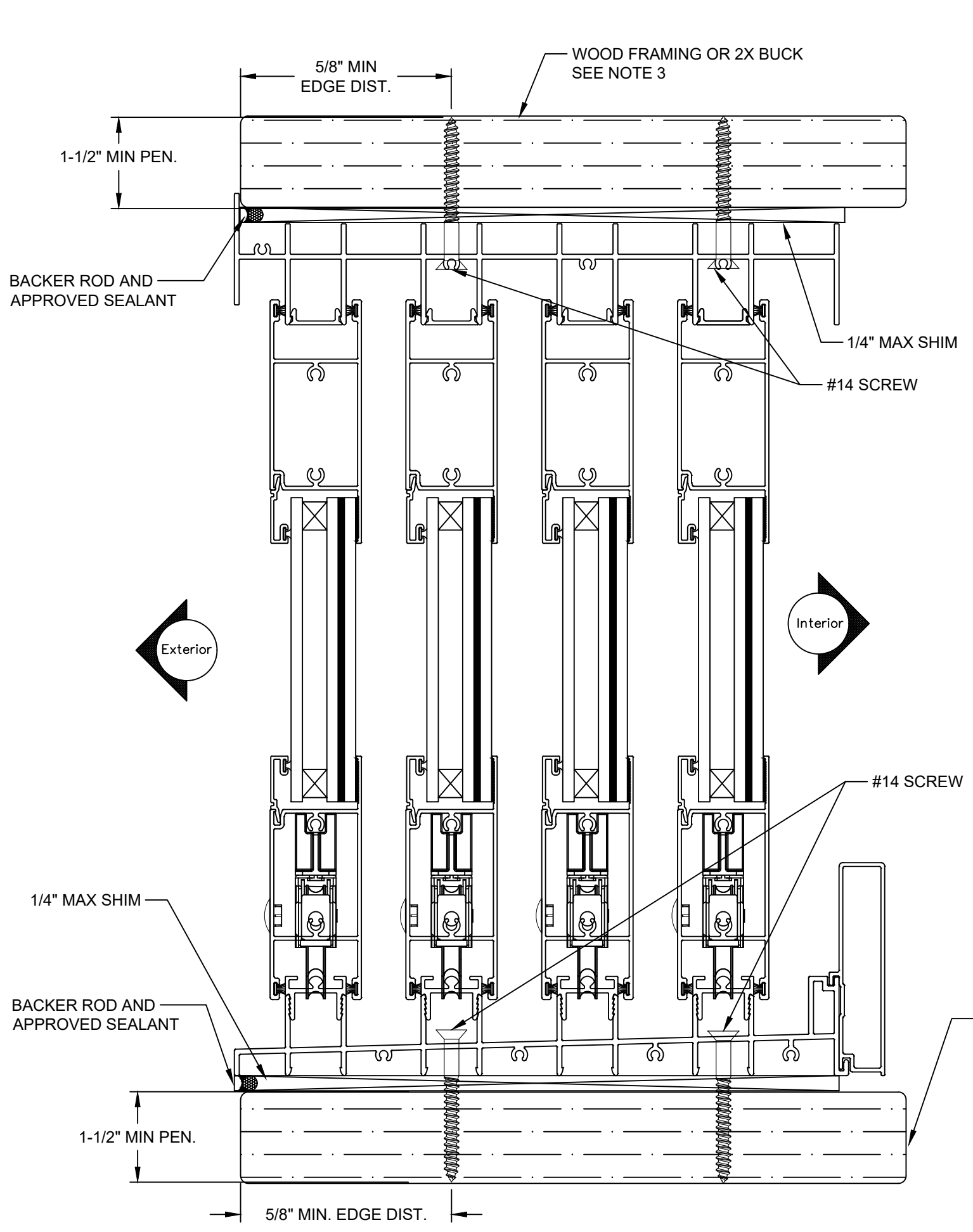
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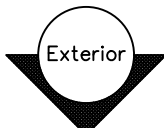
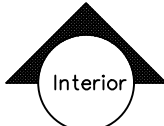
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120MD/130MD/140MD SGD 3-TRACK FLANGE - CONCRETE/CMU	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 22 of 30



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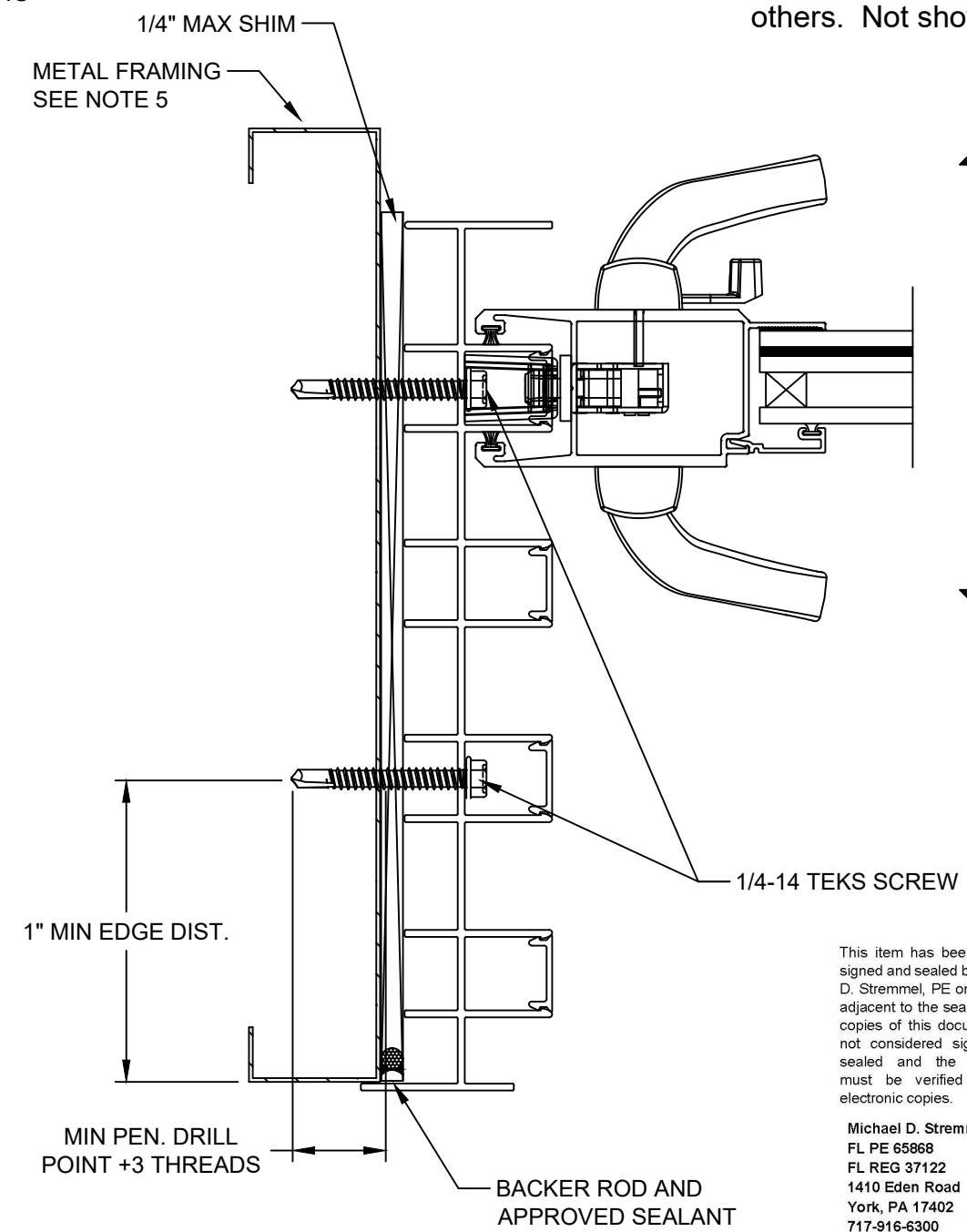
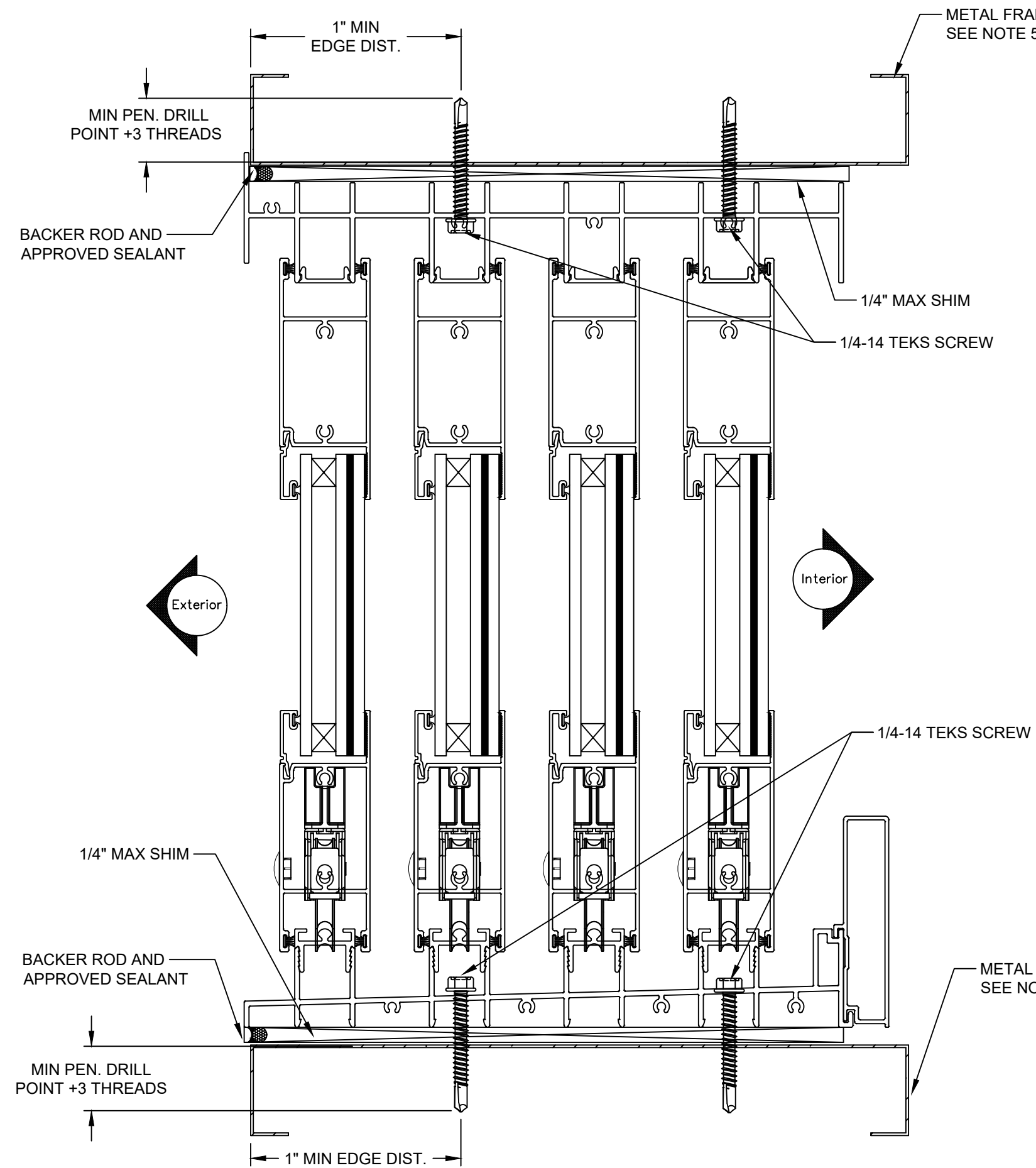


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Michael D. Stremmel

120MD/130MD/140MD SGD 4-TRACK FLANGE - WOOD	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 23 of 30

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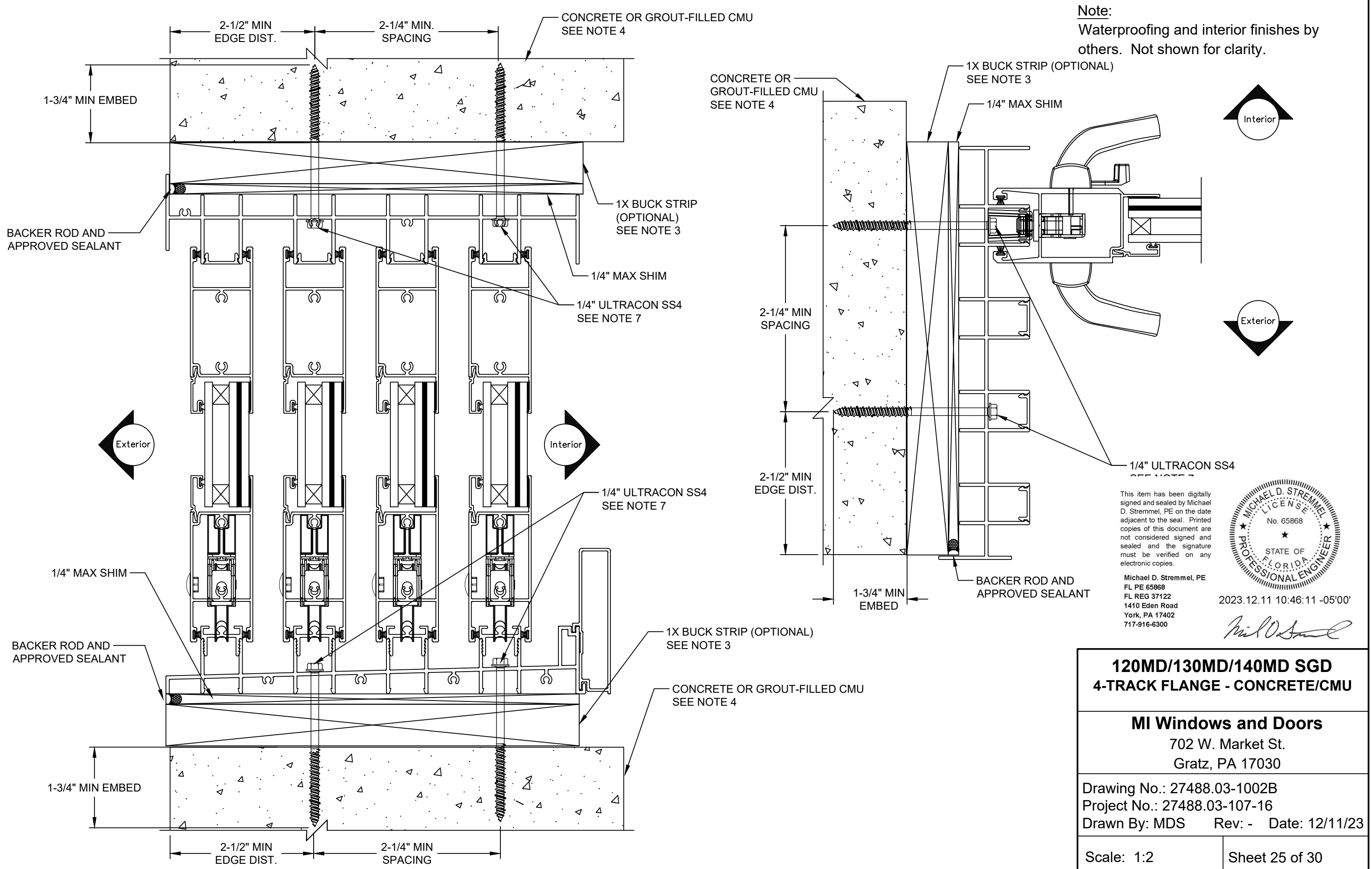
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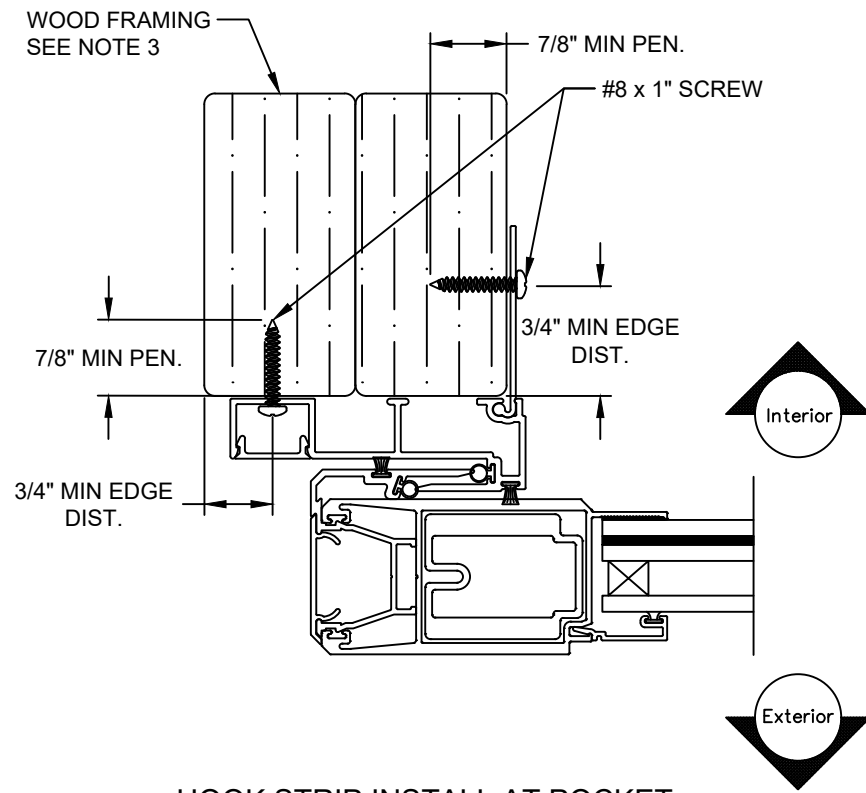


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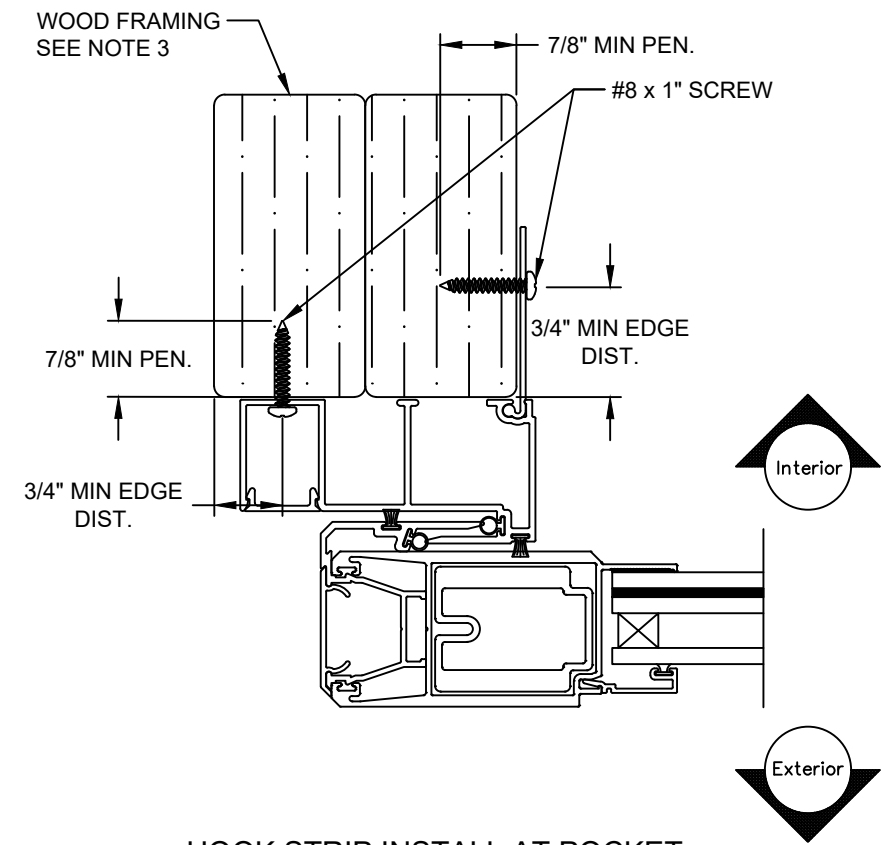
Michael D. Stremmel

120MD/130MD/140MD SGD 4-TRACK FLANGE - METAL	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
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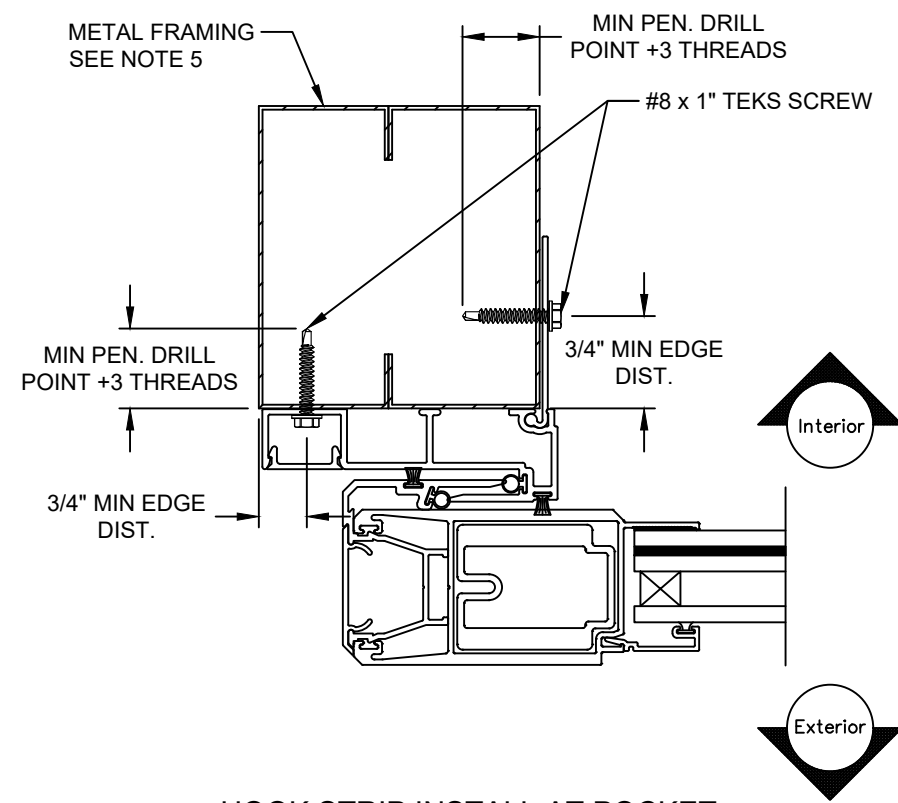




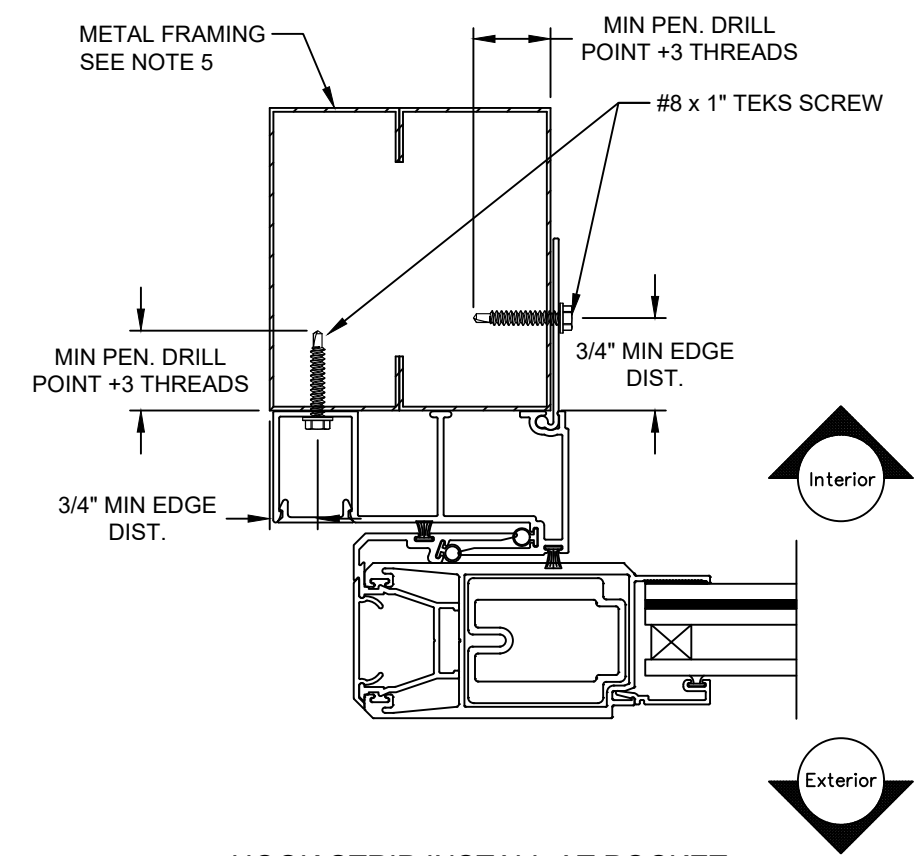
HOOK STRIP INSTALL AT POCKET
2533 HOOK STRIP AND 2535 MOUNTING FIN



HOOK STRIP INSTALL AT POCKET
2534 HOOK STRIP AND 2535 MOUNTING FIN



HOOK STRIP INSTALL AT POCKET
2533 HOOK STRIP AND 2535 MOUNTING FIN



HOOK STRIP INSTALL AT POCKET
2534 HOOK STRIP AND 2535 MOUNTING FIN

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120MD/130MD/140MD SGD HOOK STRIP INSTALL AT POCKET

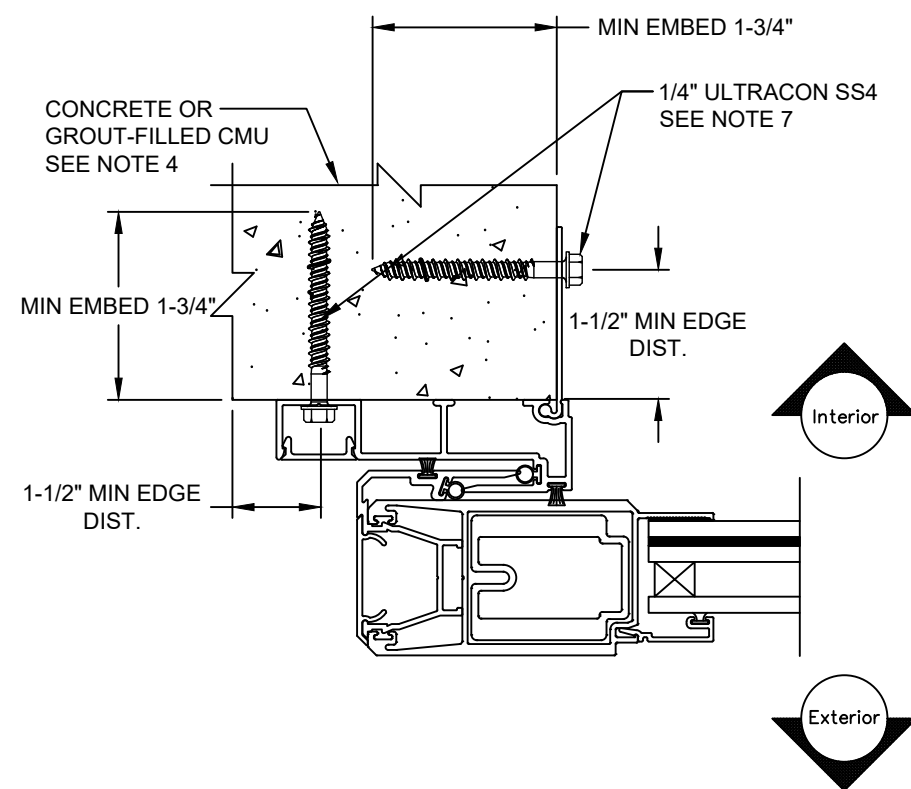
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702 W. Market St.
Gratz, PA 17030

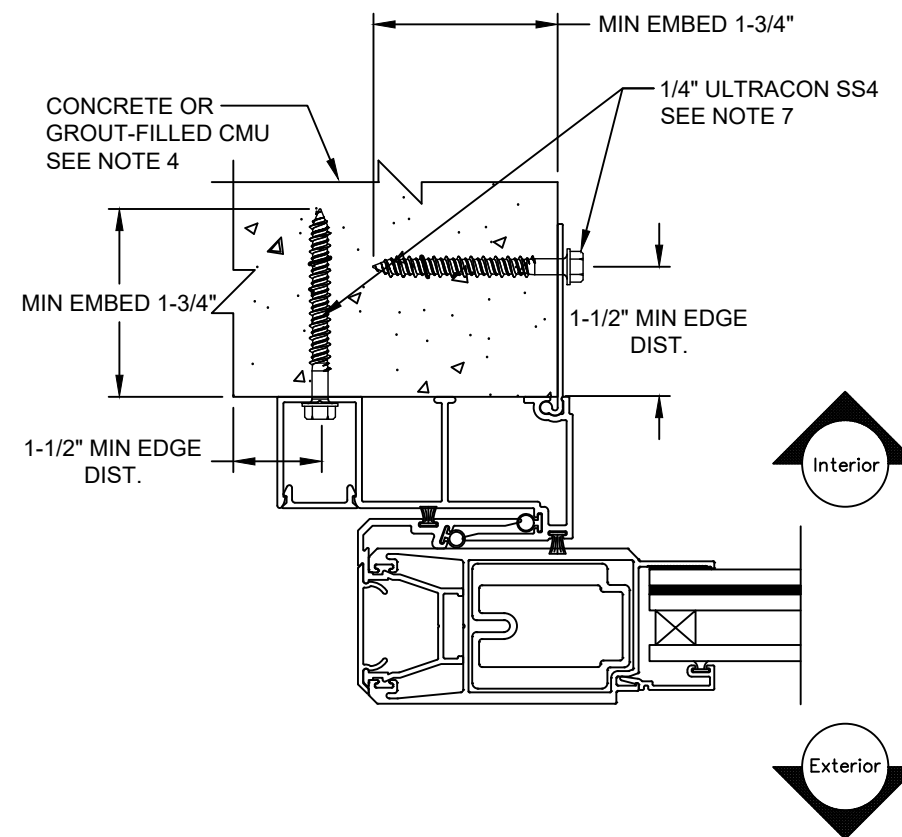
Drawing No.: 27488.03-1002B
Project No.: 27488.03-107-16
Drawn By: MDS Rev: - Date: 12/11/23

Scale: 1:2

Sheet 26 of 30



HOOK STRIP INSTALL AT POCKET
2533 HOOK STRIP AND 2535 MOUNTING FIN



HOOK STRIP INSTALL AT POCKET
2534 HOOK STRIP AND 2535 MOUNTING FIN

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120MD/130MD/140MD SGD
HOOK STRIP INSTALL AT POCKET

MI Windows and Doors

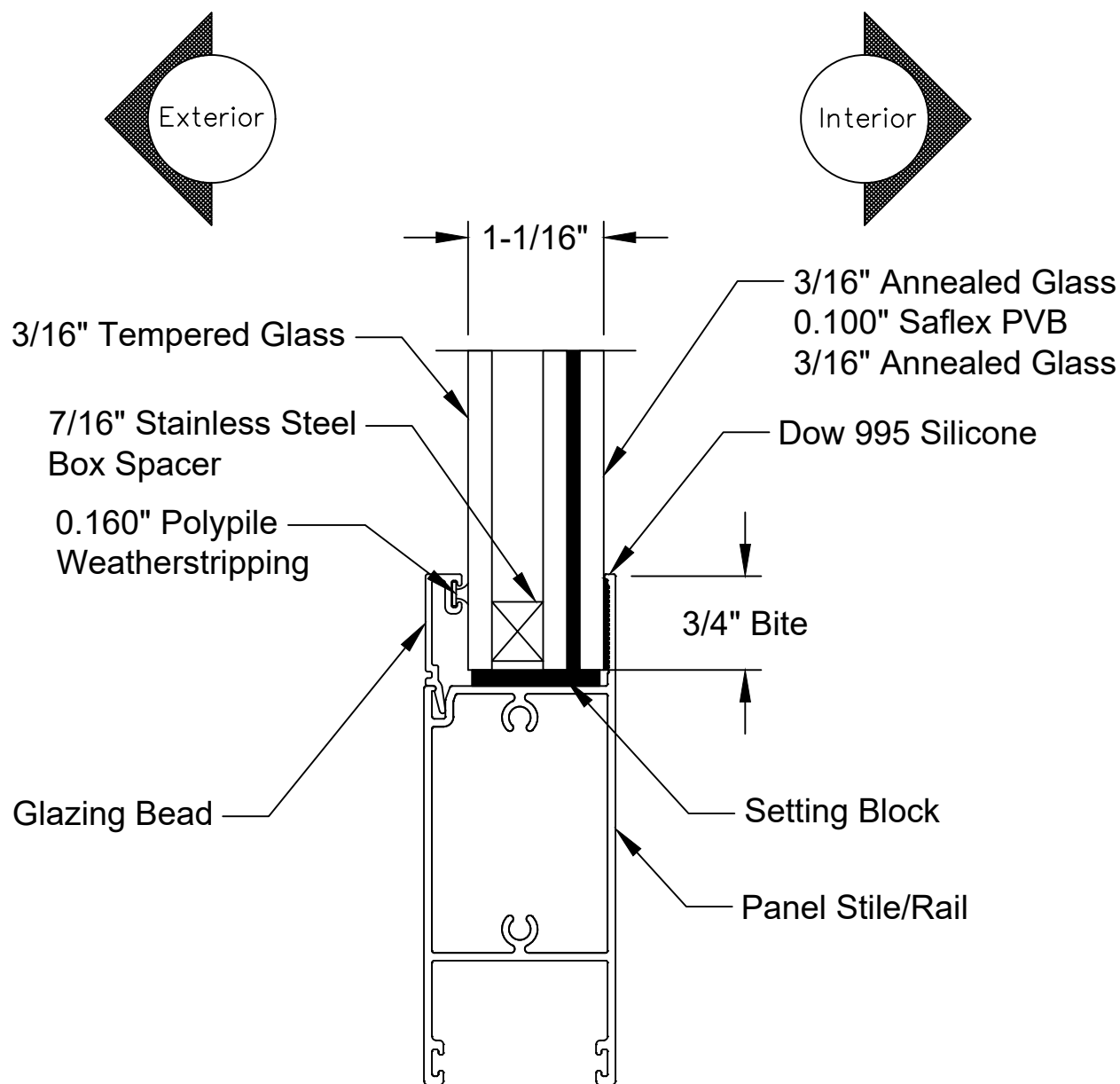
702 W. Market St.
Gratz, PA 17030

Drawing No.: 27488.03-1002B
Project No.: 27488.03-107-16
Drawn By: MDS Rev: - Date: 12/11/23

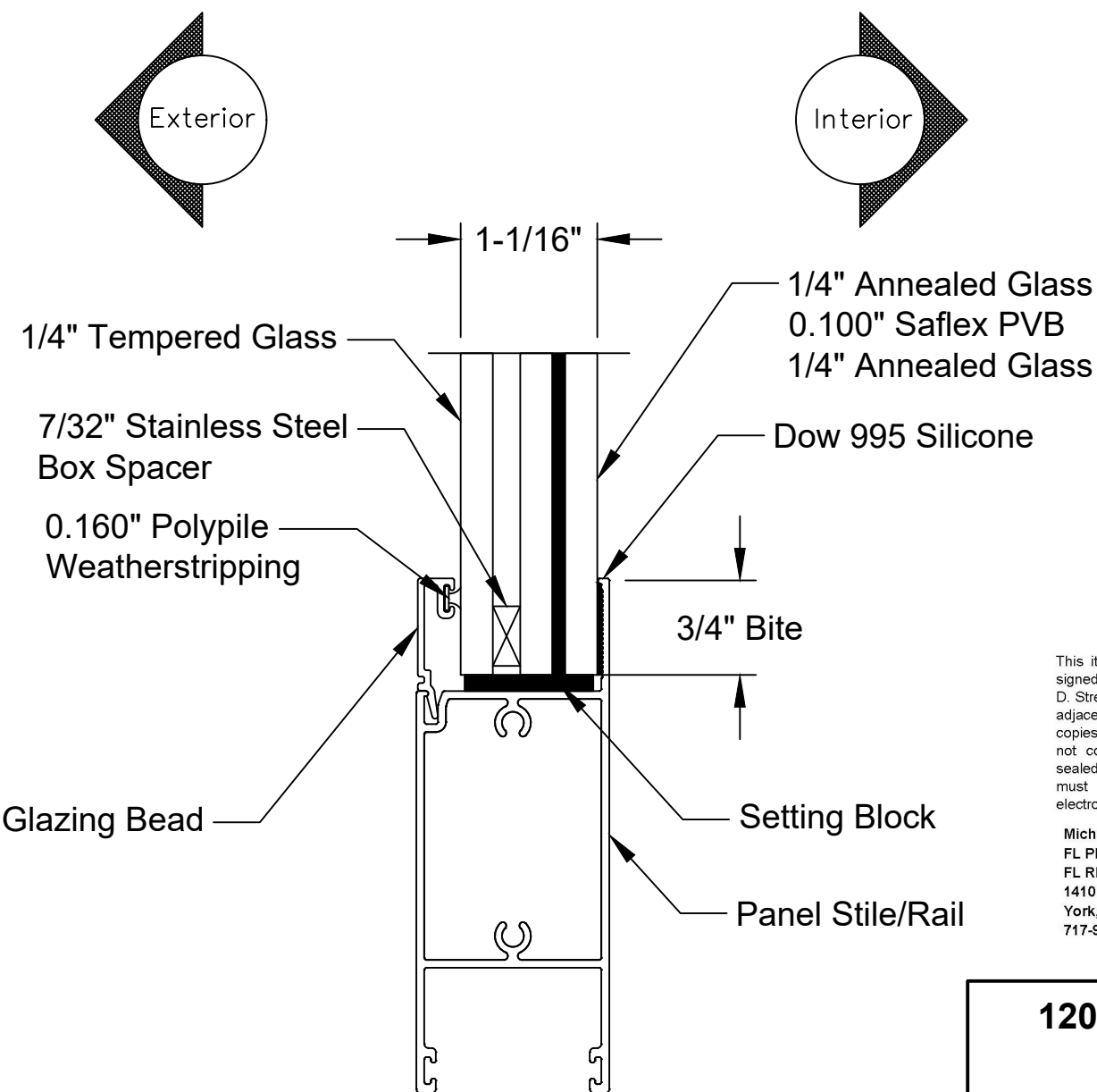
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GLAZING DETAILS



INSULATING GLASS



HEAVY INSULATING GLASS

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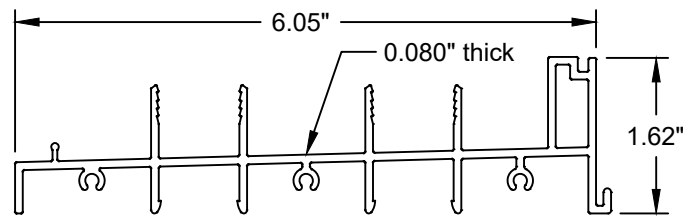
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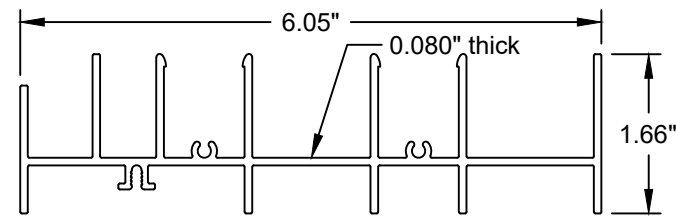
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Michael D. Stremmel

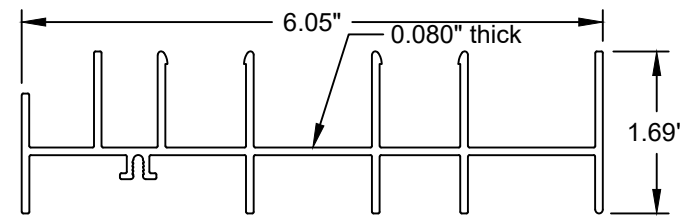
120MD/130MD/140MD SGD Glazing Detail	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:1.5	Sheet 28 of 30



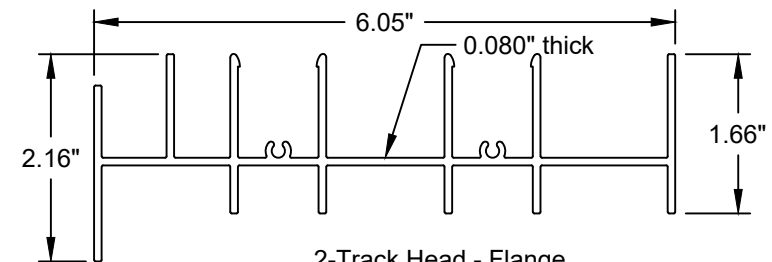
2-Track Sill
Aluminum (6005-T5)



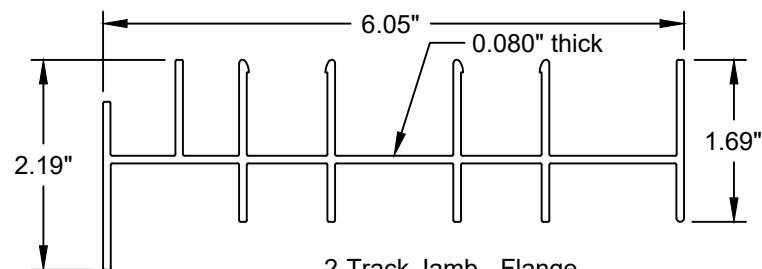
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Aluminum (6005-T5)



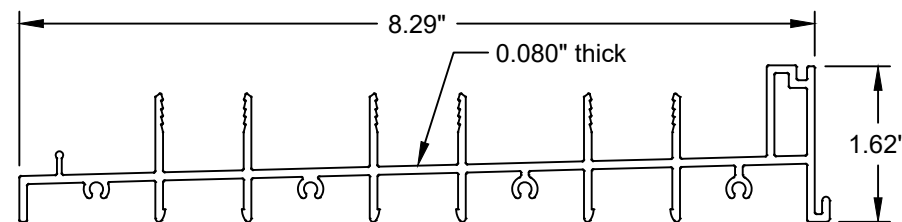
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Aluminum (6005-T5)



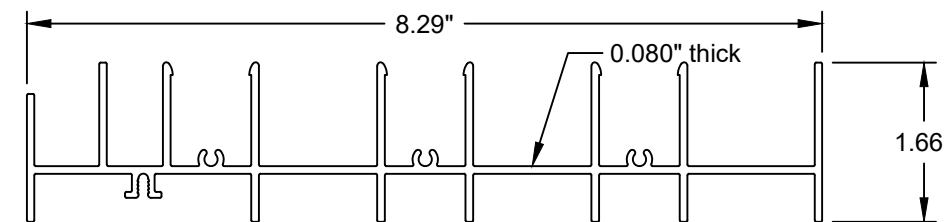
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Aluminum (6005-T5)



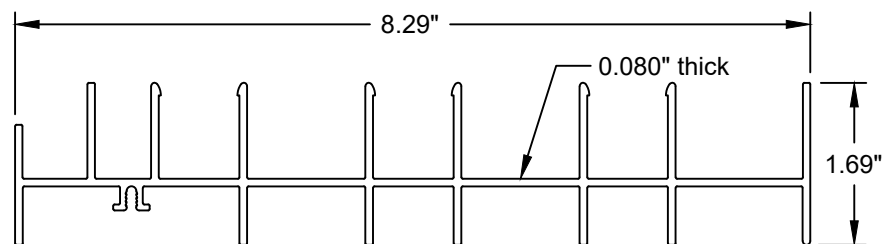
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Aluminum (6005-T5)



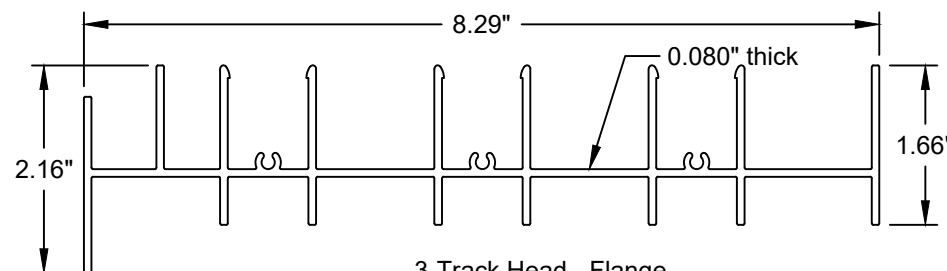
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Aluminum (6005-T5)



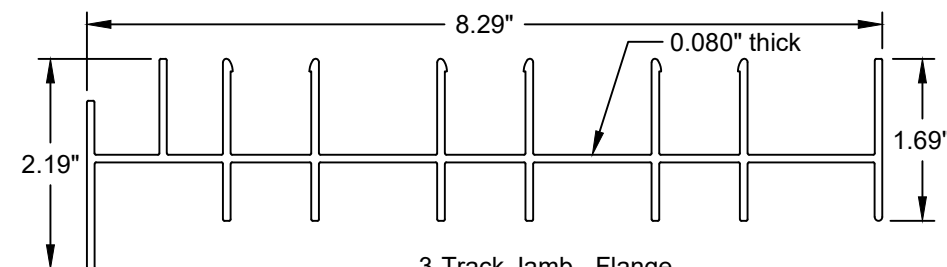
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Aluminum (6005-T5)



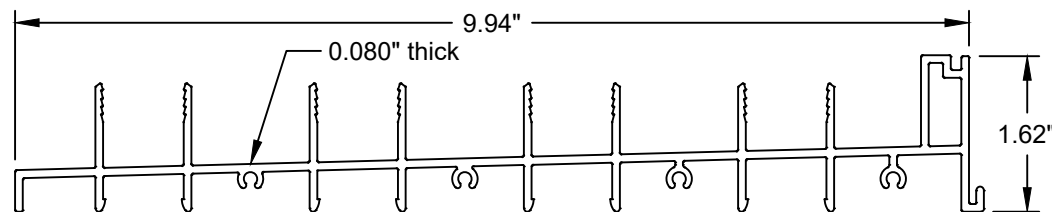
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Aluminum (6005-T5)



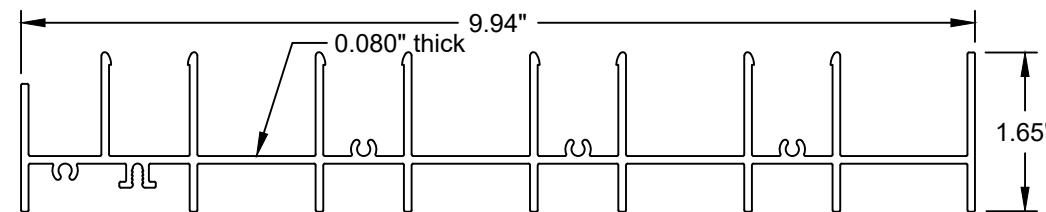
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Aluminum (6005-T5)



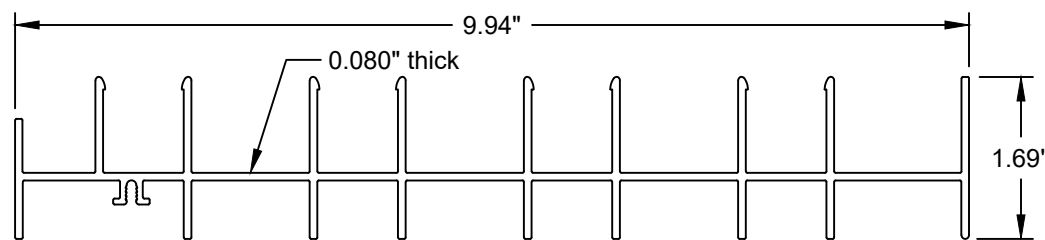
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Aluminum (6005-T5)



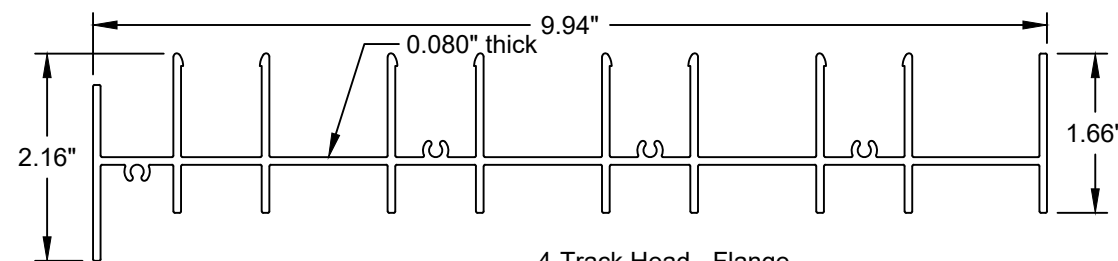
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Aluminum (6005-T5)



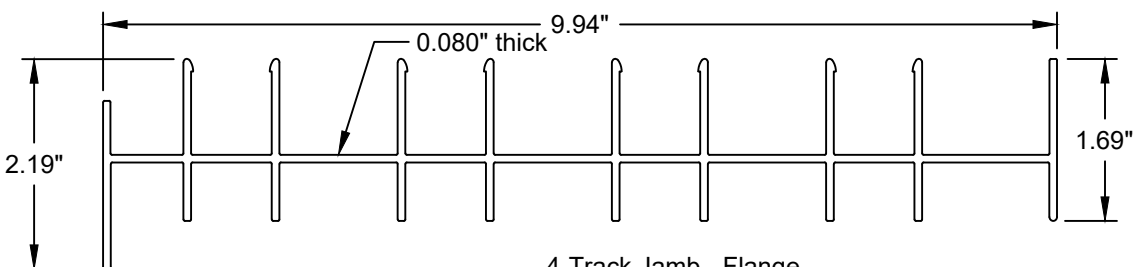
4-Track Head - Finless
Aluminum (6005-T5)



4-Track Jamb - Finless
Aluminum (6005-T5)



4-Track Head - Flange
Aluminum (6005-T5)



4-Track Jamb - Flange
Aluminum (6005-T5)

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120MD/130MD/140MD SGD COMPONENTS

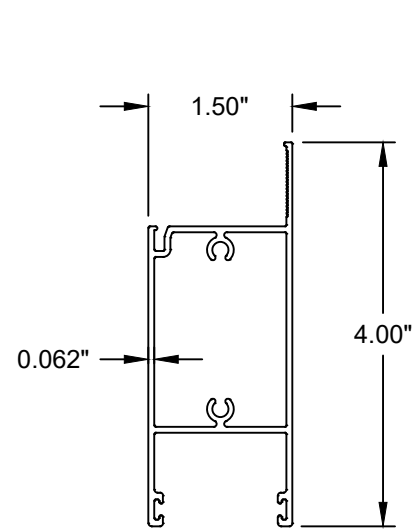
MI Windows and Doors

702 W. Market St.
Gratz, PA 17030

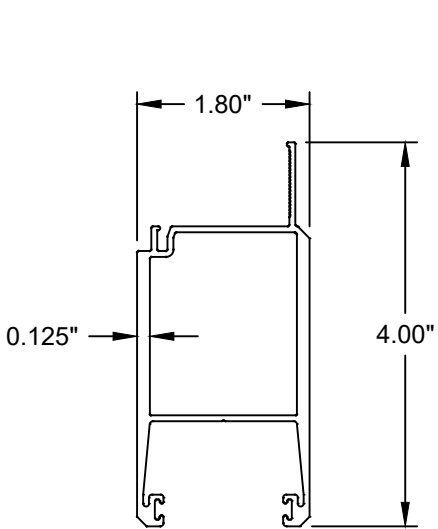
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Project No.: 27488.03-107-16
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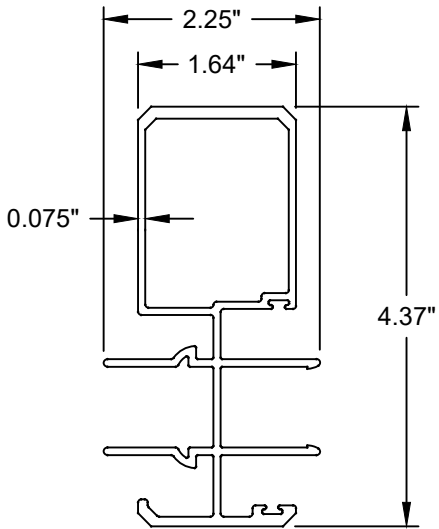
Sheet 29 of 30



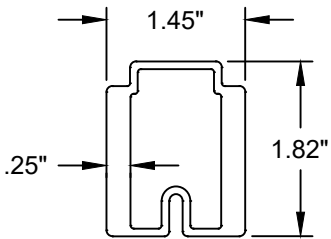
Door Rail
Aluminum (6005-T5)



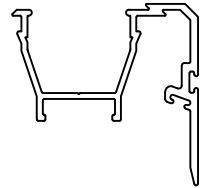
Door Stile
Aluminum (6005-T5)



Astragal
Aluminum (6005-T5)

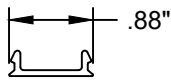


Reinforcement
Aluminum (6005-T5)

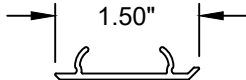


Interlock
Aluminum (6005-T5)

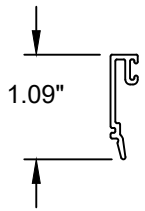
Hardware		
Description	Quantity	Location
Tandem Roller Assembly	2 per Panel	Bottom Rail, 8" from each end
Lock Handle	1	Operable panel lock stile, 39" from bottom



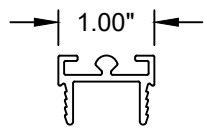
Track Filler
Aluminum (6063-T5)



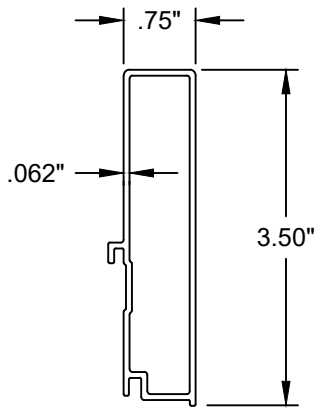
Interlock Cover
Aluminum (6005-T5)



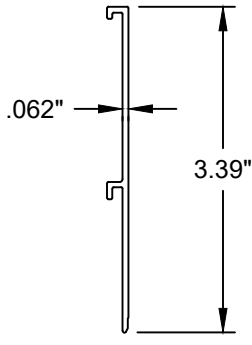
Glazing Bead
Aluminum (6063-T5)



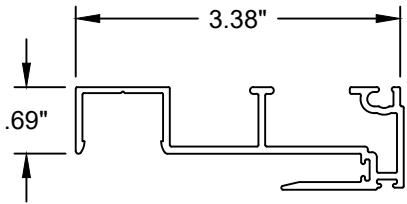
Roller Track
Aluminum (6063-T5)



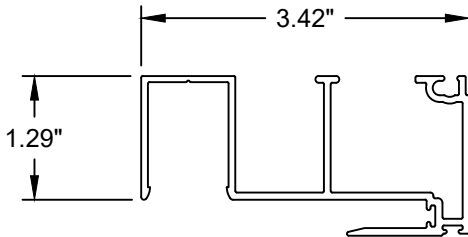
M-2531 3-1/2" Sill Extender
Aluminum (6063-T5)



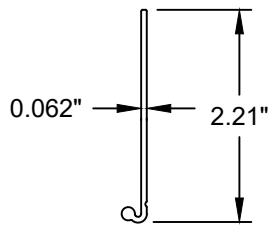
M-2538 3-1/2" Sill Extender
Aluminum (6063-T5)



M-2533 Pocket Hook Strip
Aluminum (6063-T5)



M-2534 Pocket Hook Strip
Aluminum (6063-T5)



M-2535 Mounting Fin
Aluminum (6063-T5)

This item has been digitally signed and sealed by Michael D. Stremmel, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael D. Stremmel, PE
FL PE 65868
FL REG 37122
1410 Eden Road
York, PA 17402
717-916-6300



2023.12.11 10:46:11 -05'00'

Michael D. Stremmel

120MD/130MD/140MD SGD COMPONENTS	
MI Windows and Doors 702 W. Market St. Gratz, PA 17030	
Drawing No.: 27488.03-1002B Project No.: 27488.03-107-16 Drawn By: MDS Rev: - Date: 12/11/23	
Scale: 1:2	Sheet 30 of 30