

RENAISSANCE WINDOWS AND DOORS

SERIES 8500 VINYL FIXED WINDOW NON-HVHZ, NON-IMPACT INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON TEST REPORT NO. 2616T0008, DATED 5/16/24 AND ASSOCIATED LABORATORY DRAWING BY PRI CONSTRUCTION MATERIALS TECHNOLOGIES LLC IN COMPLIANCE WITH THE 9TH EDITION (2026) FLORIDA BUILDING CODE. PERFORMANCE STANDARDS USED IN TESTING ARE:
1.1. AAMA/WDMA/CSA 101/I.S.2/A440-17
2. THIS PRODUCT CANNOT BE USED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
4. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
5. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST,THIS PRODUCT REQUIRES OPENING PROTECTION IN ACCORDANCE WITH THE 9th EDITION (2026) FLORIDA BUILDING CODE USING AN APPROVED IMPACT PROTECTION DEVICE.
6. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. WINDOW FRAME MATERIAL: VINYL (PVC).
8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-24.
9. DESIGNATION "O" STANDS FOR FIXED LITE.
10. THESE DRAWINGS CERTIFY THE FENESTRATION ANCHORAGE INSTALLATION ONLY. WATER-RESISTIVE BARRIER DETAILING OF THE WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. DETAILS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. WATER-RESISTIVE BARRIER DETAILING SHALL BE THE RESPONSIBILITY OF THE INSTALLER. REFER TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SECTION 1405.4 AND FLORIDA RESIDENTIAL CODE SECTION R703.4 FOR RECOMMENDATIONS. PER FBC SECTION 1405.4.1.4 AND FRC SECTION R703.4, FMA/AAMA 100-12 AND FMA/AAMA 200-12 CAN BE USED FOR GUIDANCE. ADDITIONALLY, ASTM E2112 CAN BE USED FOR GUIDANCE.

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4	48" X 72" ELEVATION & EQUAL LEG THROUGH FRAME ANCHORING LAYOUT
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INSTALLATION NOTES:

1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.

2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.

2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEETS 5 THROUGH 7 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
5. ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE

5.1. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH ELEVATIONS ON SHEETS 3 AND 4.

5.2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE ELEVATIONS ON SHEETS 3 AND 4 ARE ACCEPTABLE.

5.3. FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.

5.4. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.

5.5. SEE EMBEDMENT AND EDGE DISTANCE DESCRIPTION ON SHEET 2.
6. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
7. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 2.
9. ALL FASTENERS TO BE CORROSION RESISTANT, AND/OR HAVE A CORROSION RESISTANT COATING, OR WHEN EXPOSED TO SALTWATER ENVIRONMENTS WITHIN 3,000 FEET OF A SALTWATER COASTLINE MEET THE REQUIREMENTS OF SECTION 1711, 9TH EDITION (2026) FBC AND SECTION R332, 9TH EDITION (2026) FRC WHEN APPLICABLE.

PERFORMANCE RATING				
MAXIMUM WINDOW SIZE	ELEVATION	GLAZING DETAIL (SEE SHEET 8)	DESIGN PRESSURE (PSF)	IMPACT RATING
87" X 96"	SHEET 3 & 4	A	+/- 50	NONE SEE NOTE 5

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SERIES 8500 VINYL FIXED WINDOW INSTALLATION ANCHORAGE DETAILS	DATE			
	BY	RIA		
	REVISION DESCRIPTION	UPDATE TO 9TH EDITION (2026) FBC		
	NO.	A		

DATE: 06/05/2024	DWN BY: RIA	CHK BY: n/a	SCALE: NONE
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SIGNED/SEALED: 8/4/26
PROJECT#: ACE-2024-121
DWG/REV: RWD0030, Rev A
SHT: 1 of 8

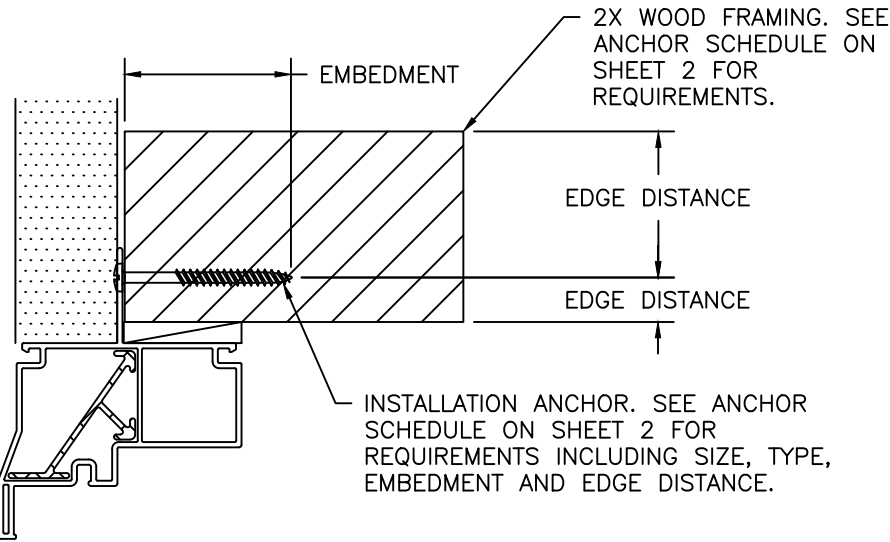
INSTALLATION ANCHOR SCHEDULE									
INSTALLATION TYPE	SECTION VIEW	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN) BETWEEN FRAME ANCHORS	ANCHOR CAPACITIES BASED ON
THROUGH FRAME ANCHOR	SECTION A, B & C (SHEETS 7)	HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1	1-1/8	3	MIN. 2500 PSI CONCRETE
				MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
		PAN HEAD	No. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT	1-3/8	3/4	2 1/2	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (2) GRADE 2 EQUIVALENT				
SNAP-ON FLANGE WITH THROUGH FRAME ANCHOR	SECTION A, B & C (SHEETS 6)	HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1	1-1/8	3	MIN. 2500 PSI CONCRETE
				MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1	2	3	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
		PAN HEAD	No. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) GRADE 2 EQUIVALENT	1-3/8	3/4	2 1/2	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (2) GRADE 2 EQUIVALENT				
NAILING FIN ANCHOR	SECTION A, B & C (SHEETS 5)	PAN HEAD	No. 8	WOOD	ANSI B18.6.1 (WOOD SCREW) (3) GRADE 2 EQUIVALENT	1-5/8	1/4	1	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.
					ASME B18.6.4 (TAPPING SCREW) (3) GRADE 2 EQUIVALENT				

NOTES:

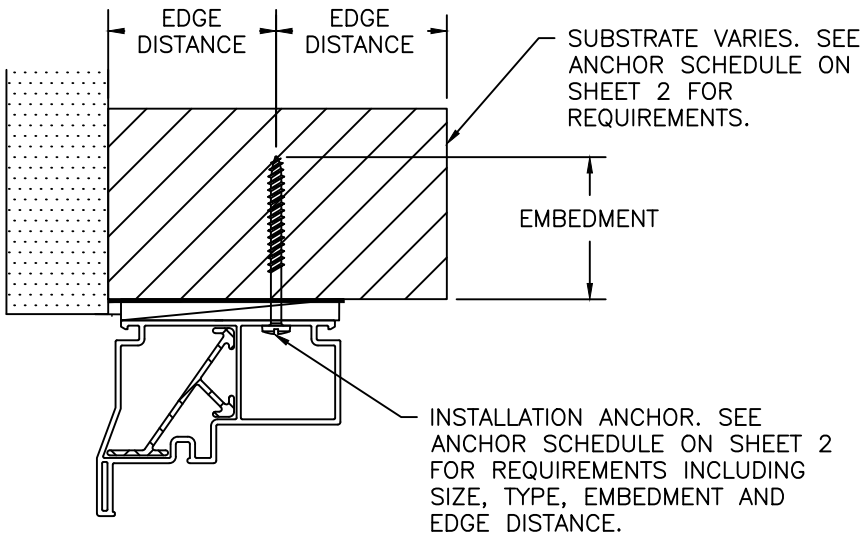
1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

2) FOR WOOD SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.090" PILOT HOLE (DRILL SIZE 43). FOR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.121" PILOT HOLE (DRILL SIZE 31).

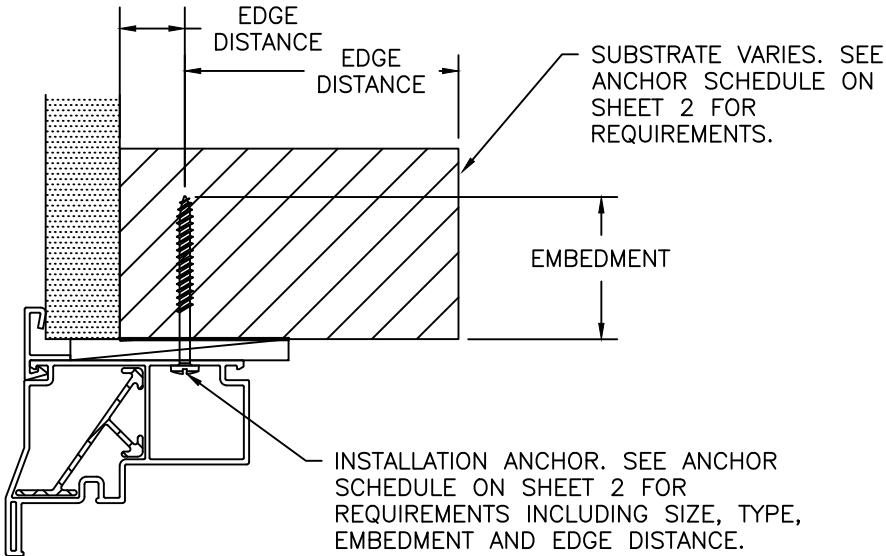
3) FOR WOOD OR TAPPING SCREW INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.082" PILOT HOLE (DRILL SIZE 45).



EMBEDMENT AND EDGE DISTANCE
NAILING FIN FRAME INSTALLATION



EMBEDMENT AND EDGE DISTANCE
THROUGH-FRAME INSTALLATION



EMBEDMENT AND EDGE DISTANCE
SNAP-ON FLANGE THROUGH-FRAME INSTALLATION

BOM ITEM NO. 8, SILL CLIP AT SILL NOT SHOWN. EDGE DISTANCE AND EMBEDMENT SAME MANNER AS THROUGH-FRAME WITH AND W/O SNAP-ON FLANGE AT HEAD.

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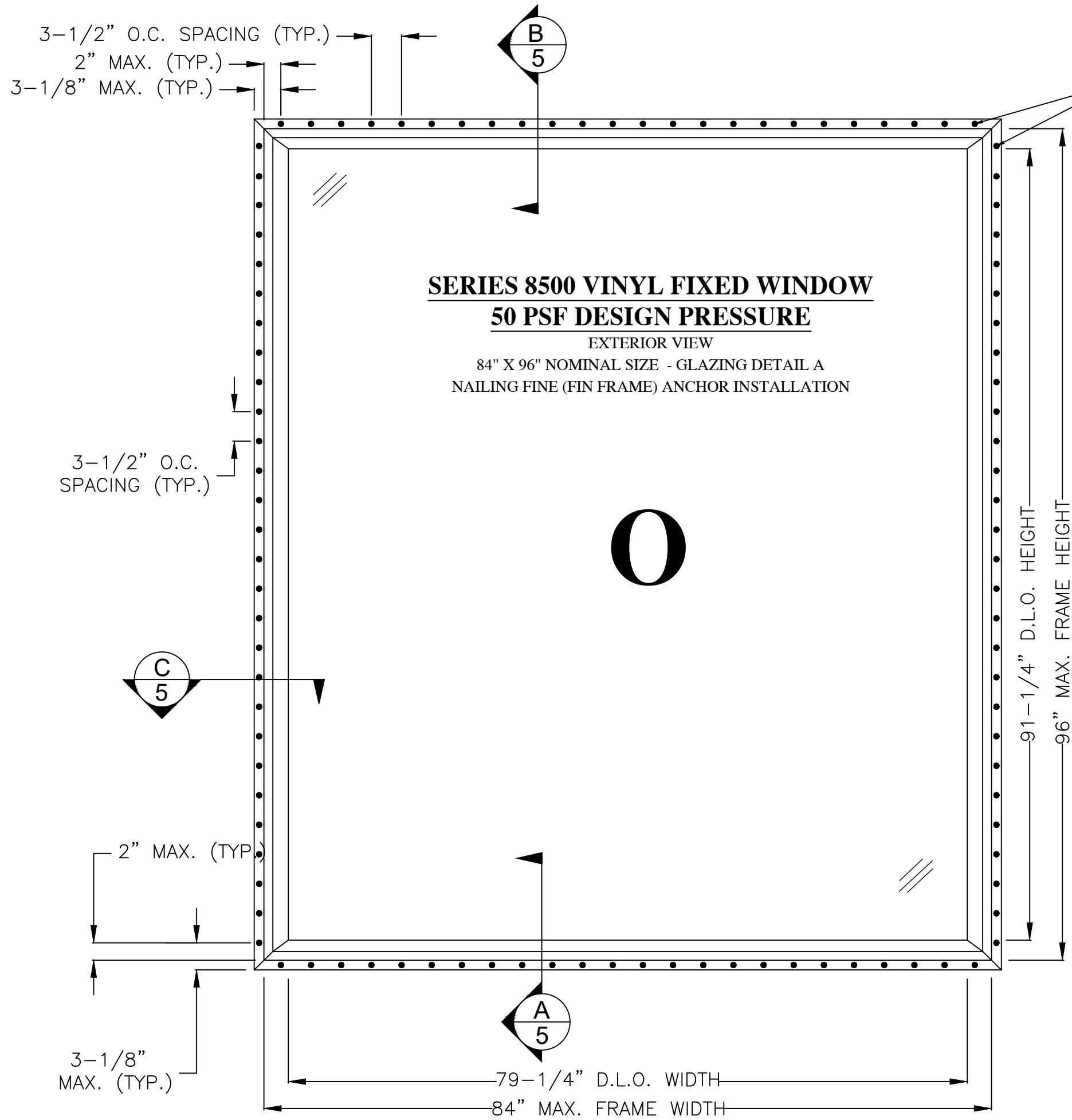
REVISION DESCRIPTION	DATE	8/4/26			
	BY	RJA			
	NO.	A	UPDATE TO 9TH EDITION (2026) FBC		

DATE: 06/05/2024	DWN BY: RJA	CHK BY: n/a	SCALE: NONE
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NAILING FIN
INSTALLATION ANCHOR
SHOWN. SEE ANCHOR
SCHEDULE ON SHEET
2.

● DENOTES FIN FRAME
ANCHOR LOCATION

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SCALE: NONE

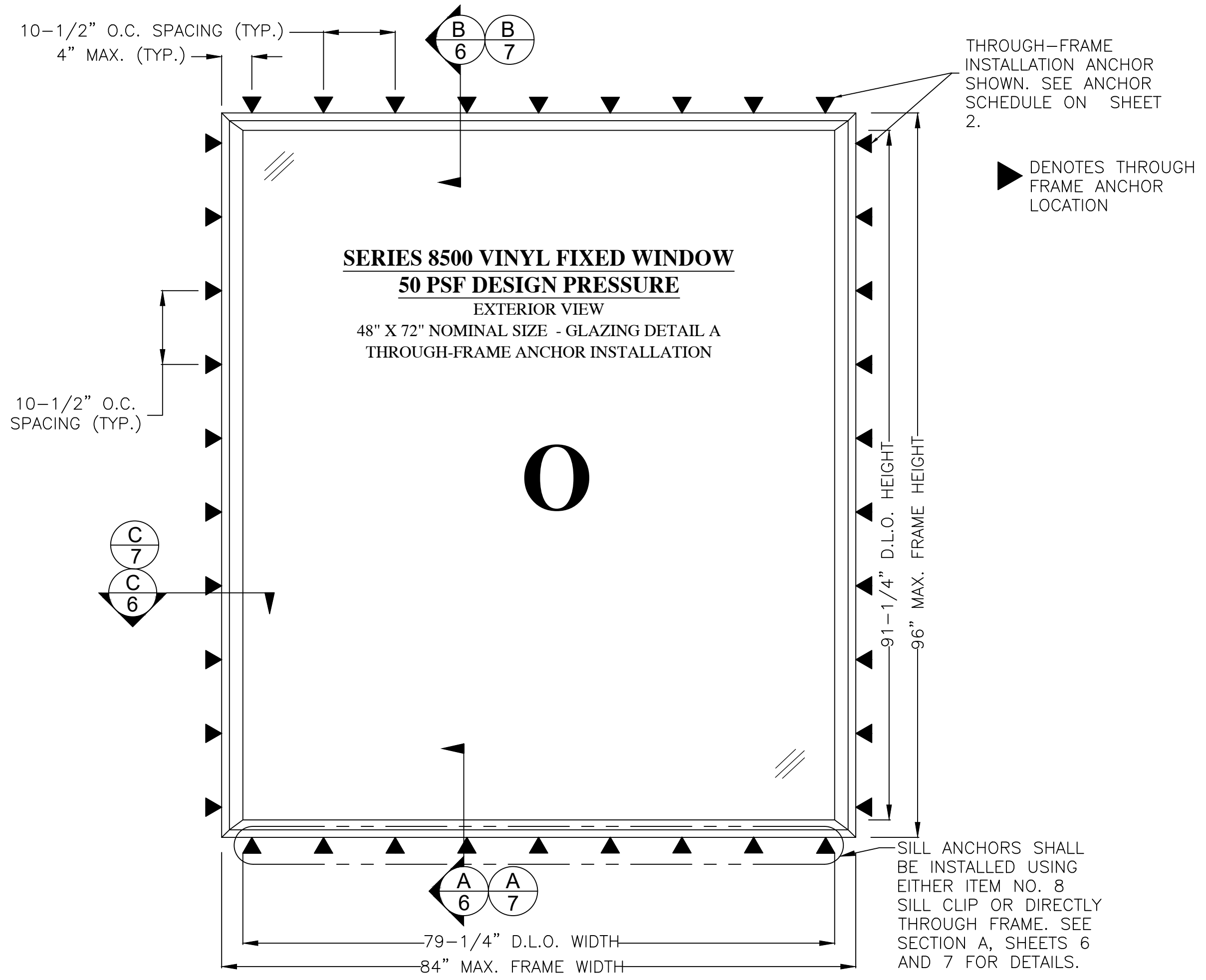
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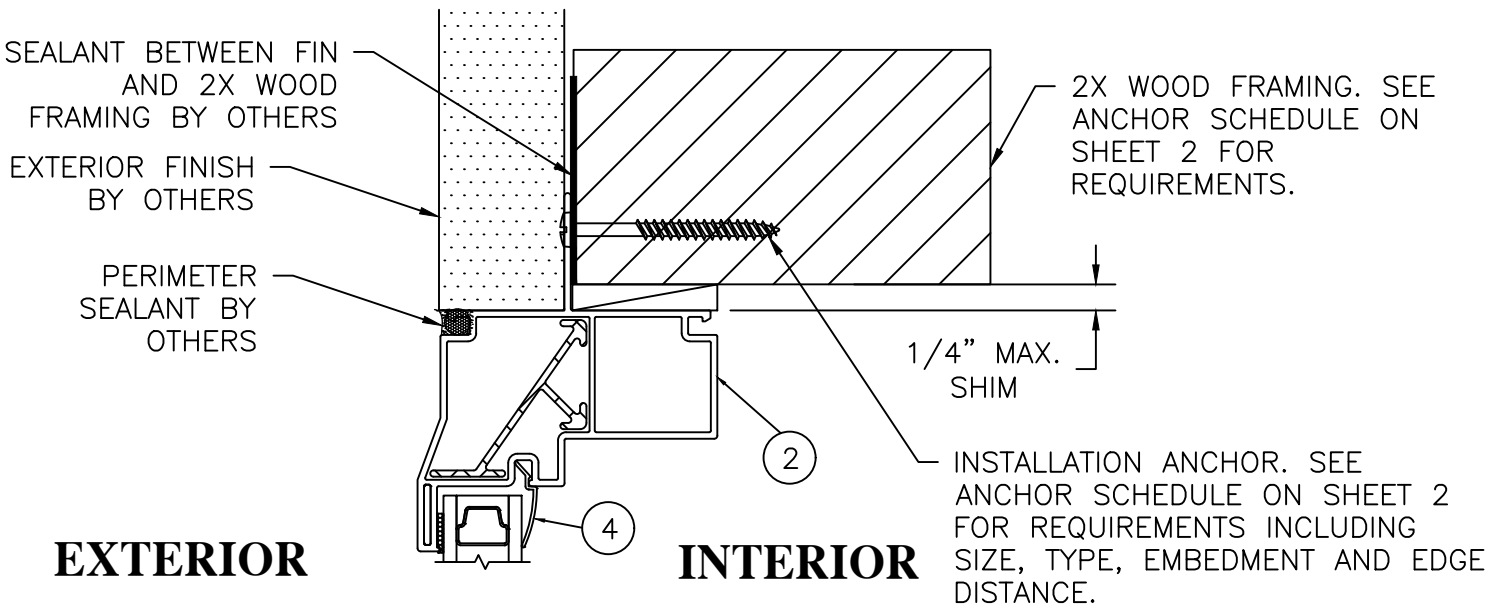
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE
No. 49752
ROBERT JAMES AMORUSO

SIGNED/SEALED: 8/4/26

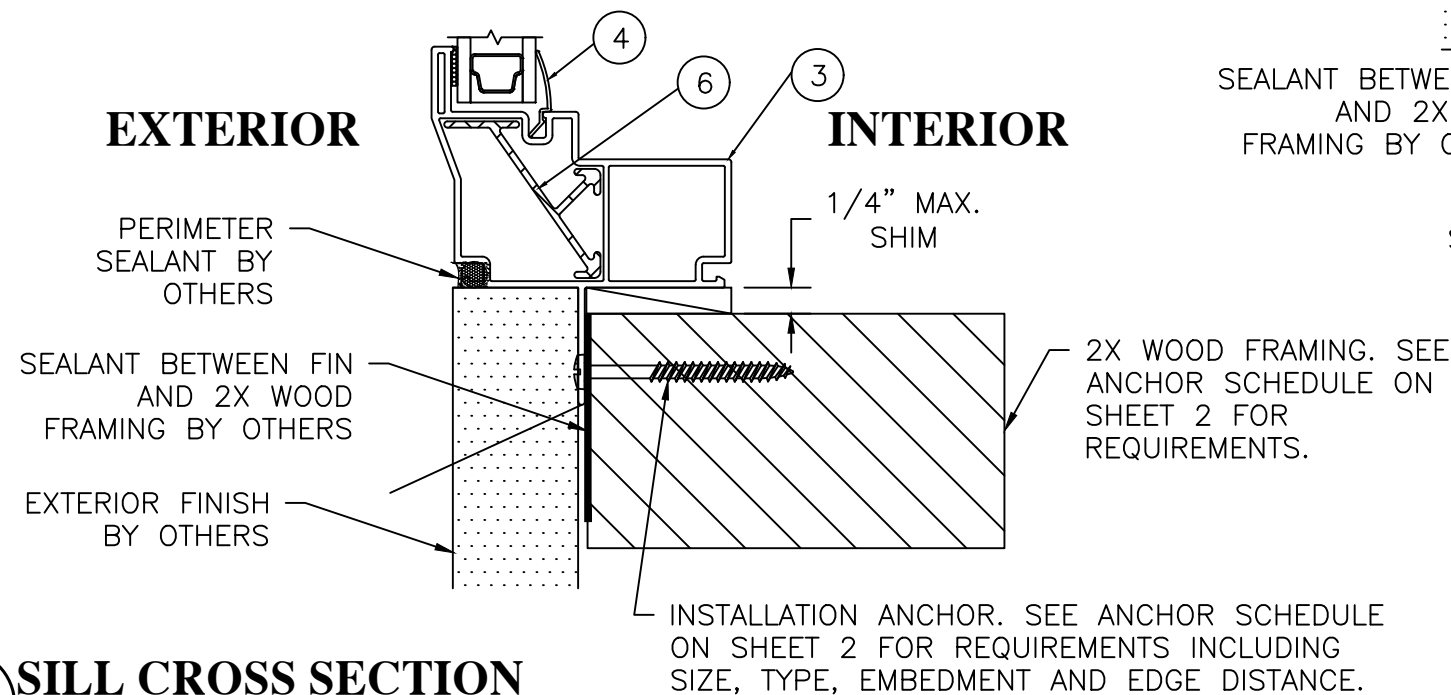
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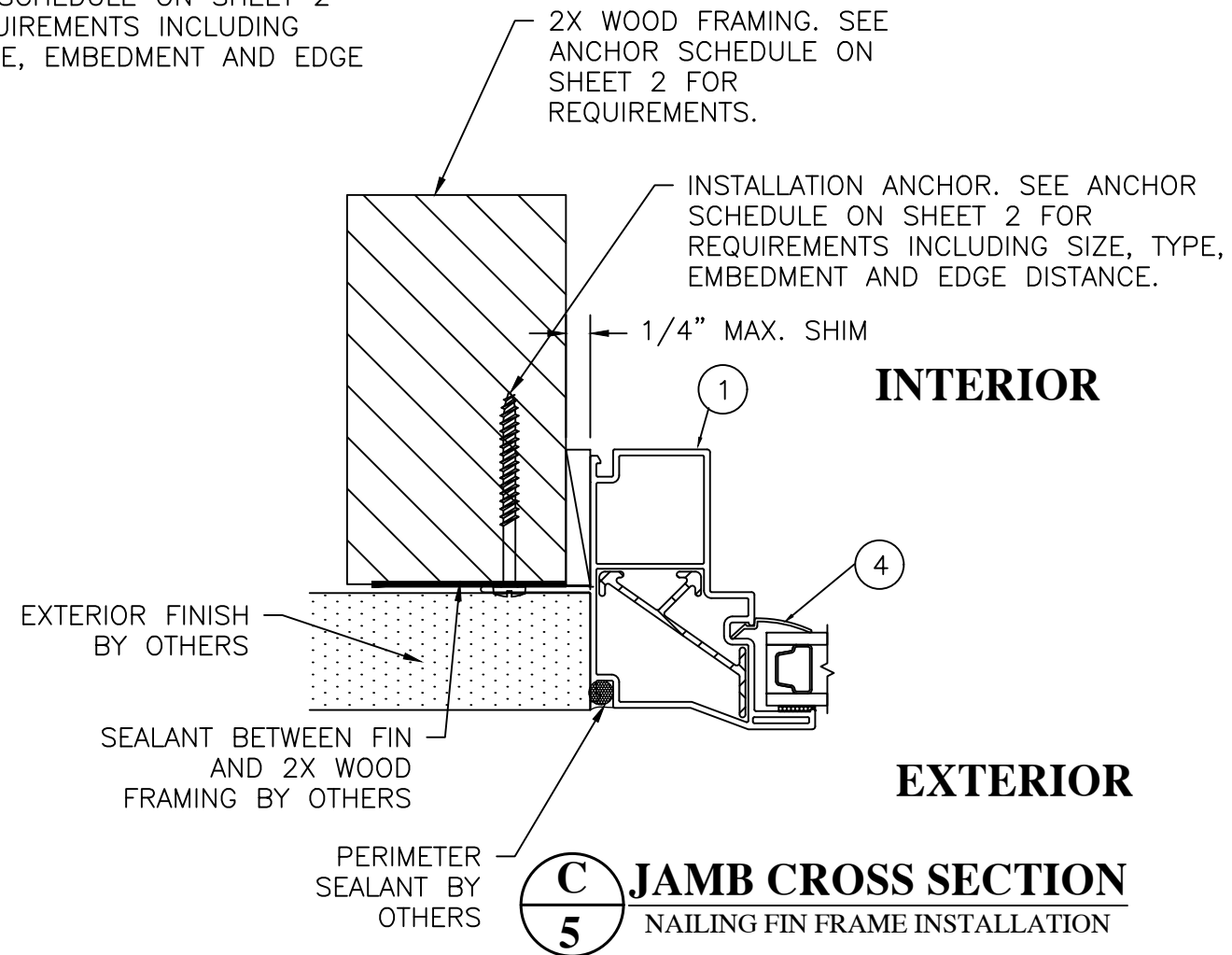
SHT: 4 of 8



B
5 **HEAD CROSS SECTION**
NAILING FIN FRAME INSTALLATION



A
5 **SILL CROSS SECTION**
NAILING FIN FRAME INSTALLATION



C
5 **JAMB CROSS SECTION**
NAILING FIN FRAME INSTALLATION

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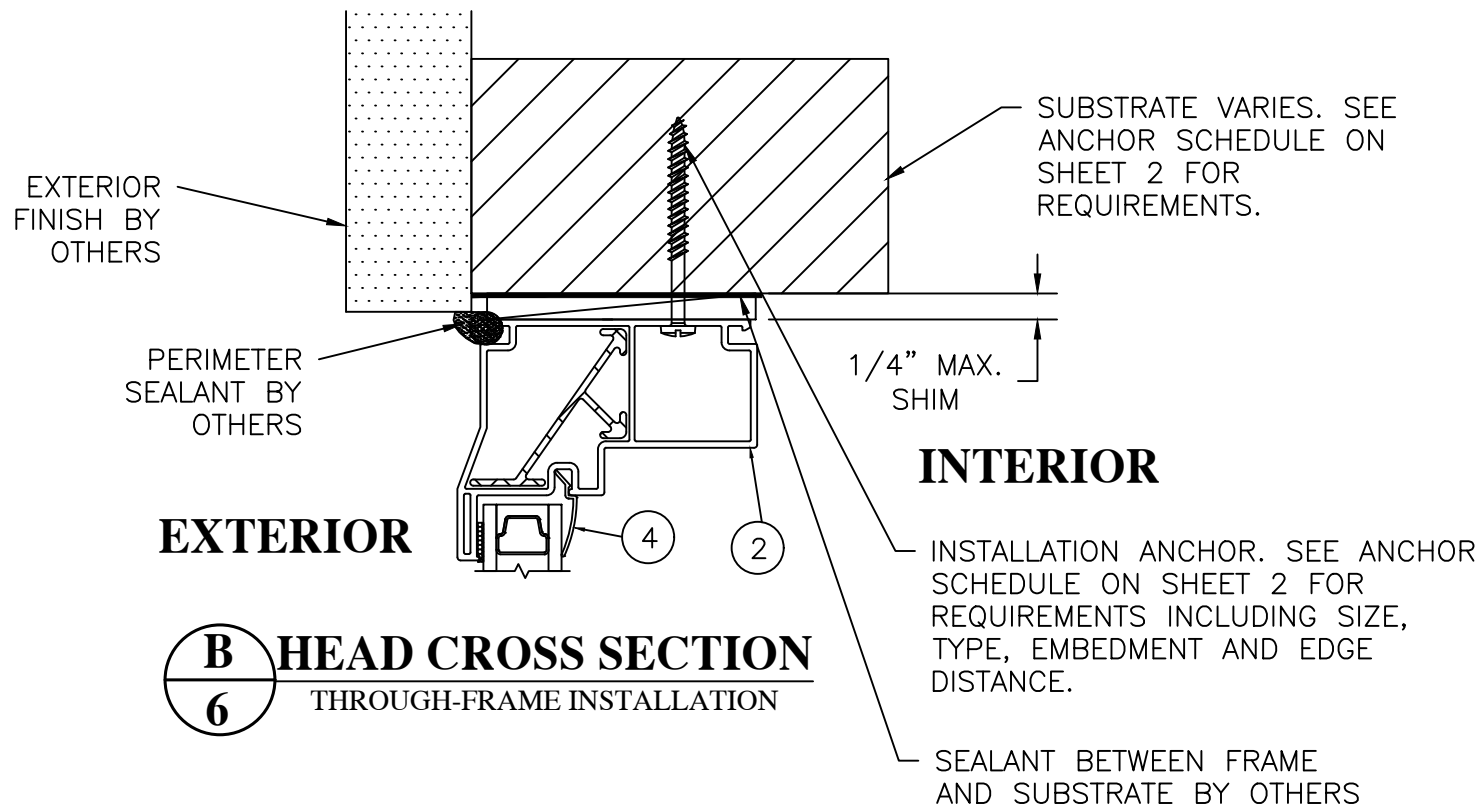
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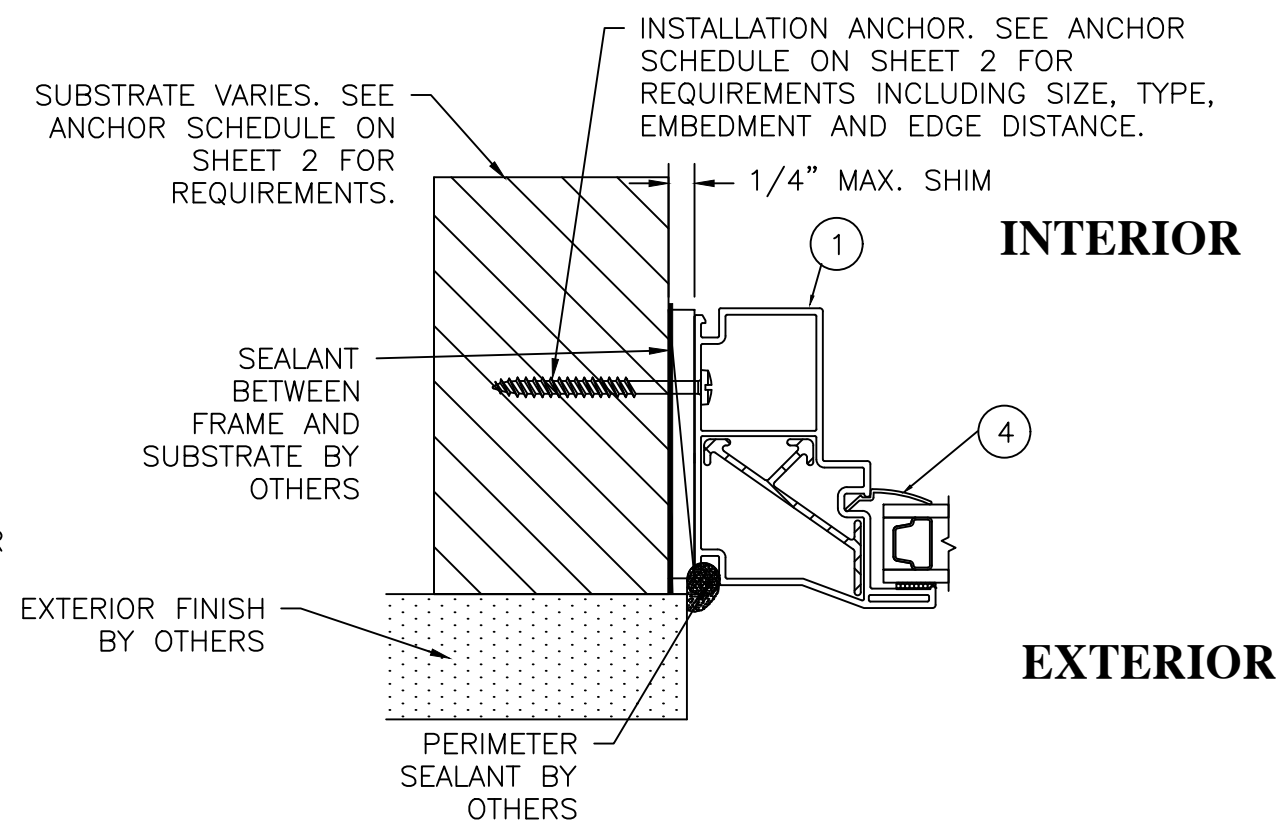
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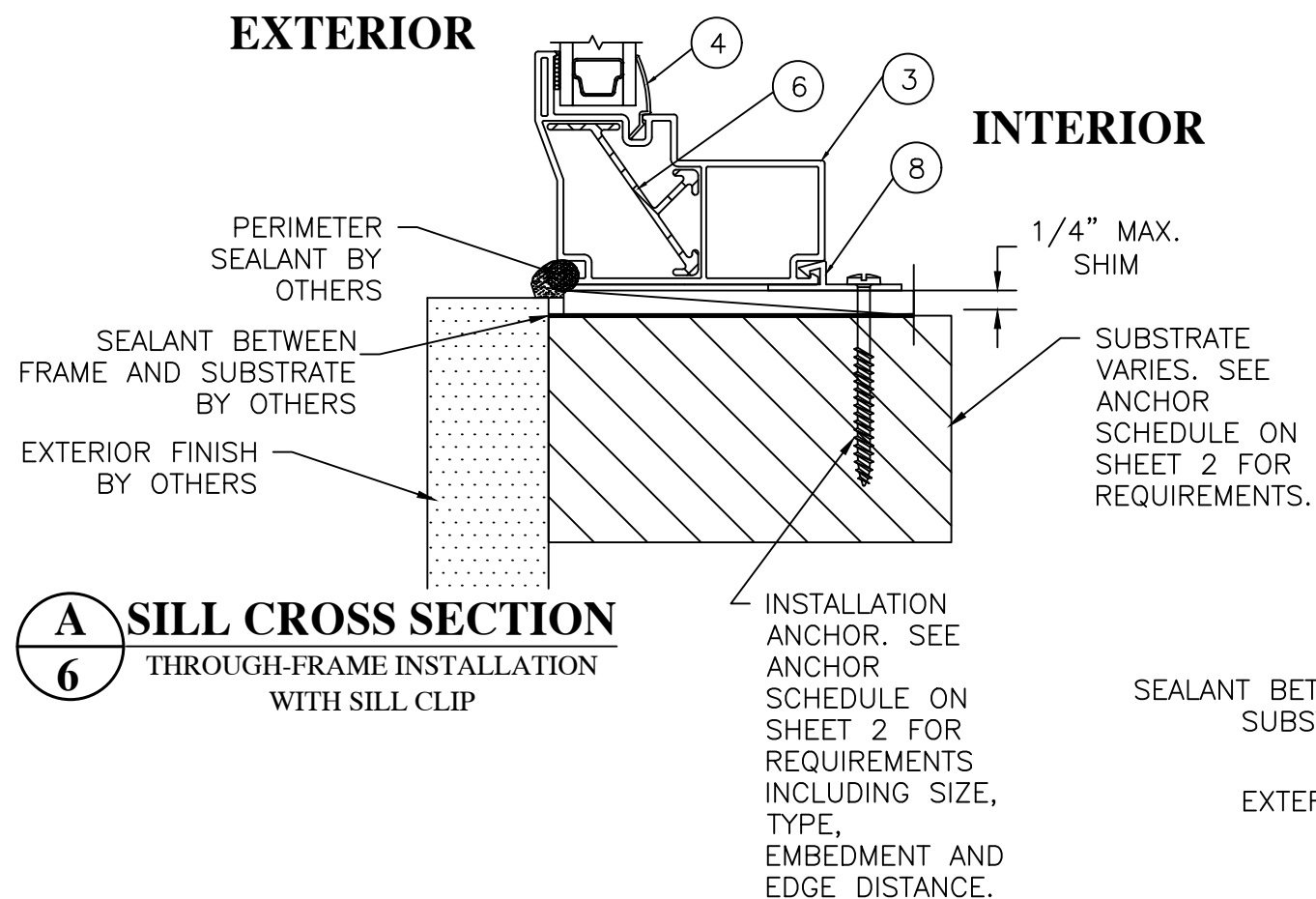
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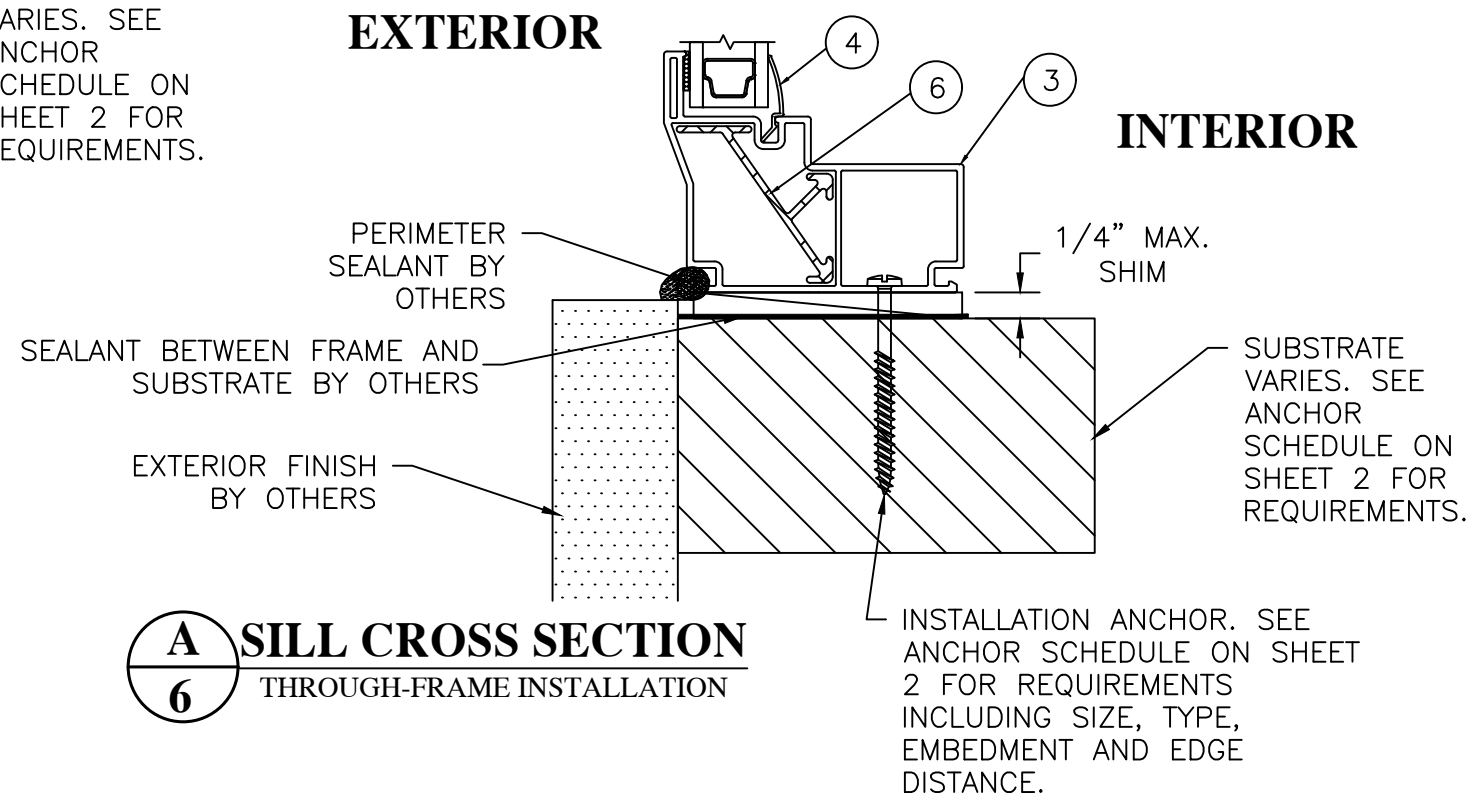
B HEAD CROSS SECTION
6 THROUGH-FRAME INSTALLATION



C JAMB CROSS SECTION
6 THROUGH-FRAME INSTALLATION



A SILL CROSS SECTION
6 THROUGH-FRAME INSTALLATION WITH SILL CLIP



A SILL CROSS SECTION
6 THROUGH-FRAME INSTALLATION

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DWG/REV: RWD0030, Rev A

SHT: 6 of 8

SERIES 8500 VINYL FIXED WINDOW INSTALLATION
ANCHORAGE DETAILS

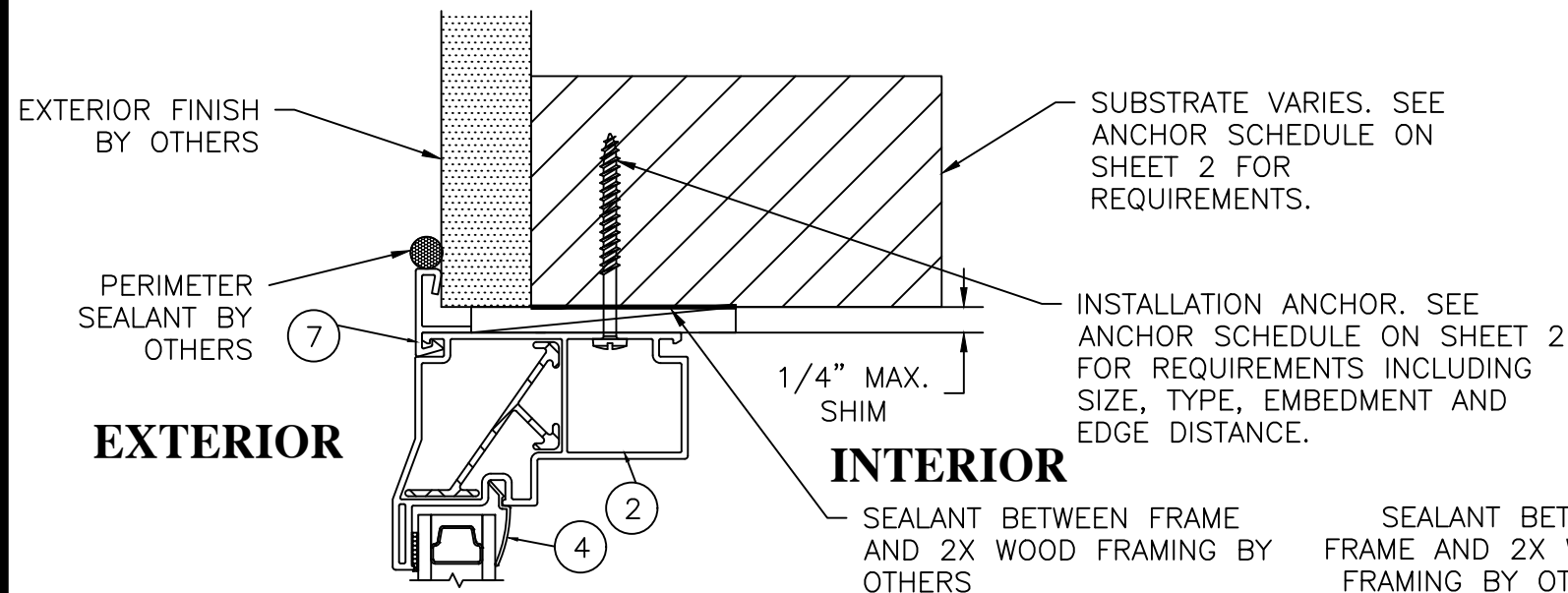
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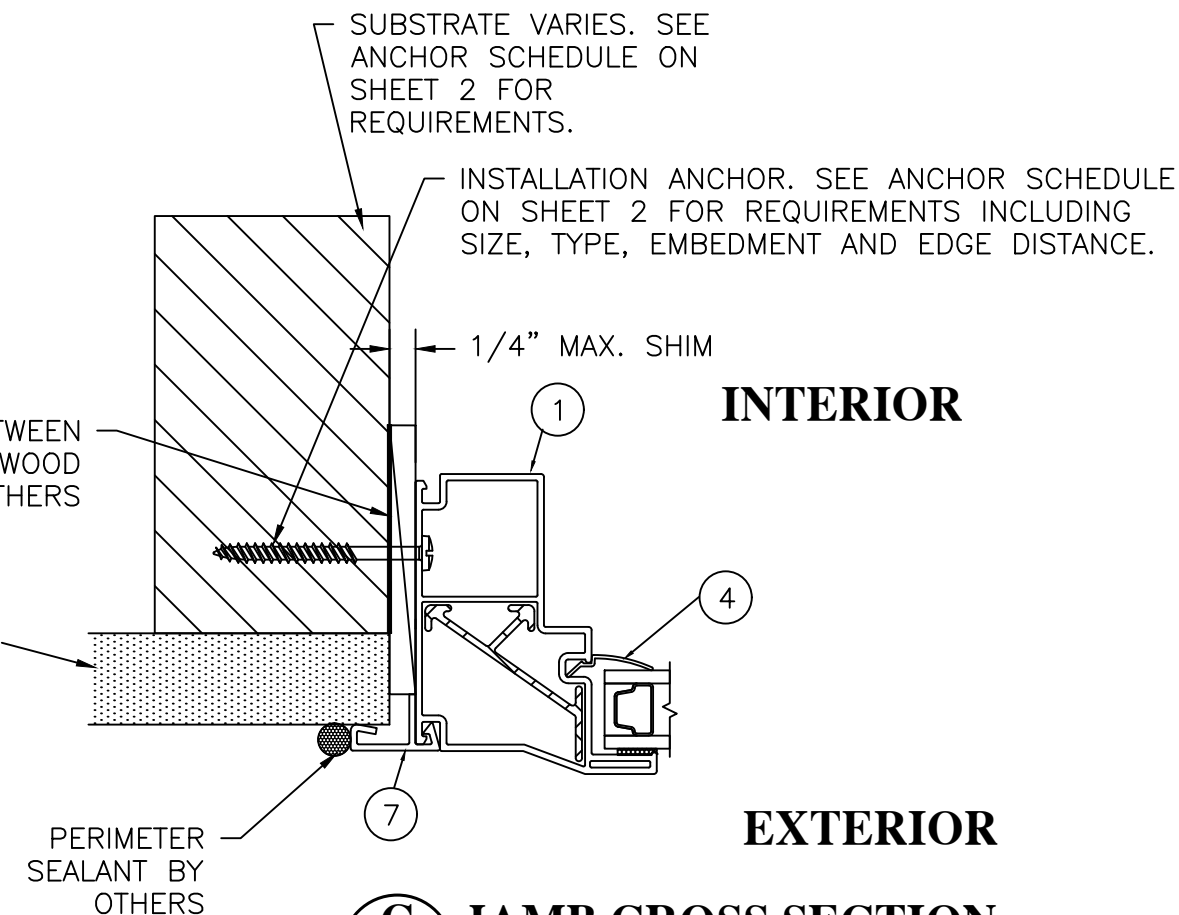
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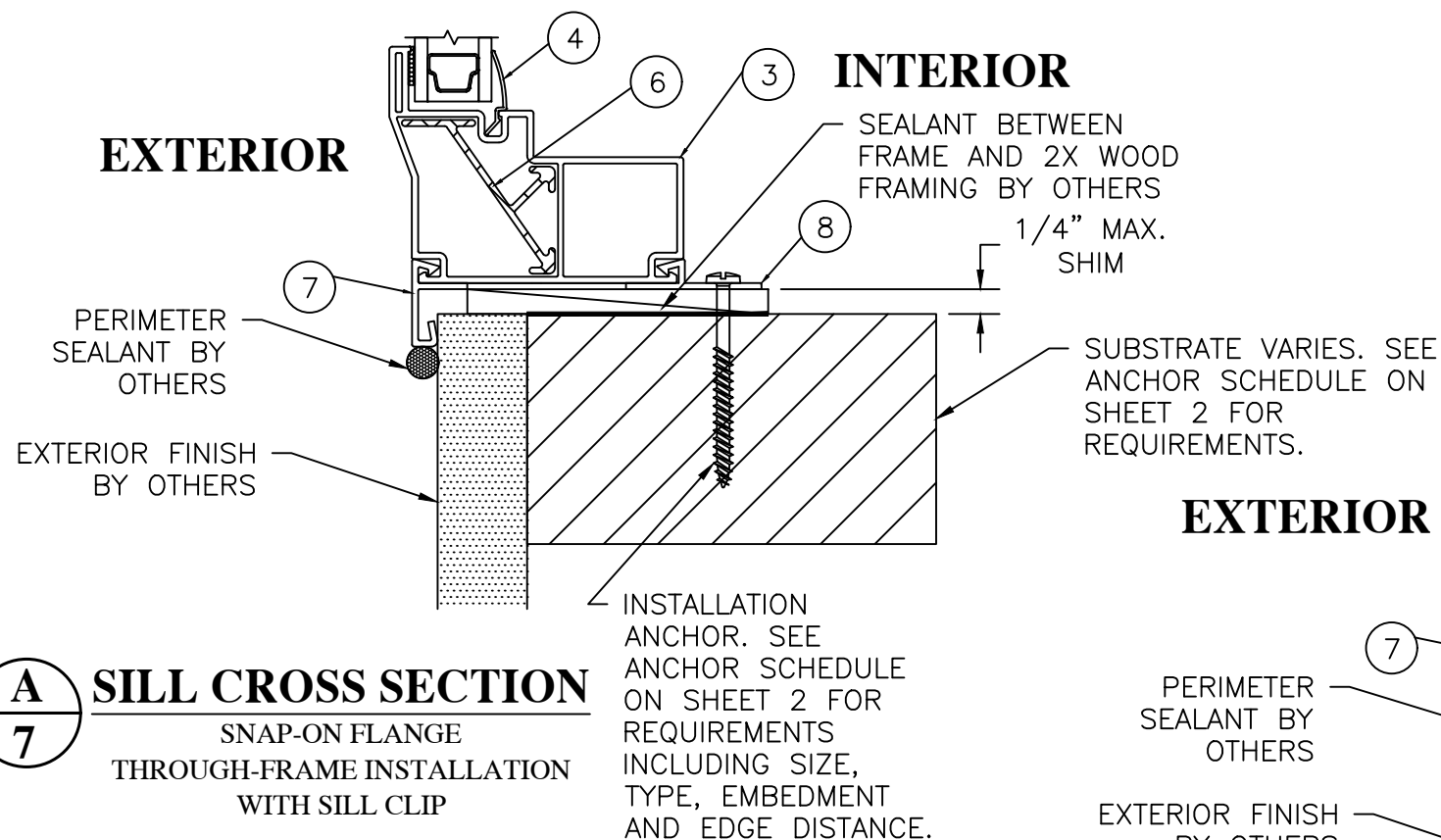
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SHT: 7 of 8



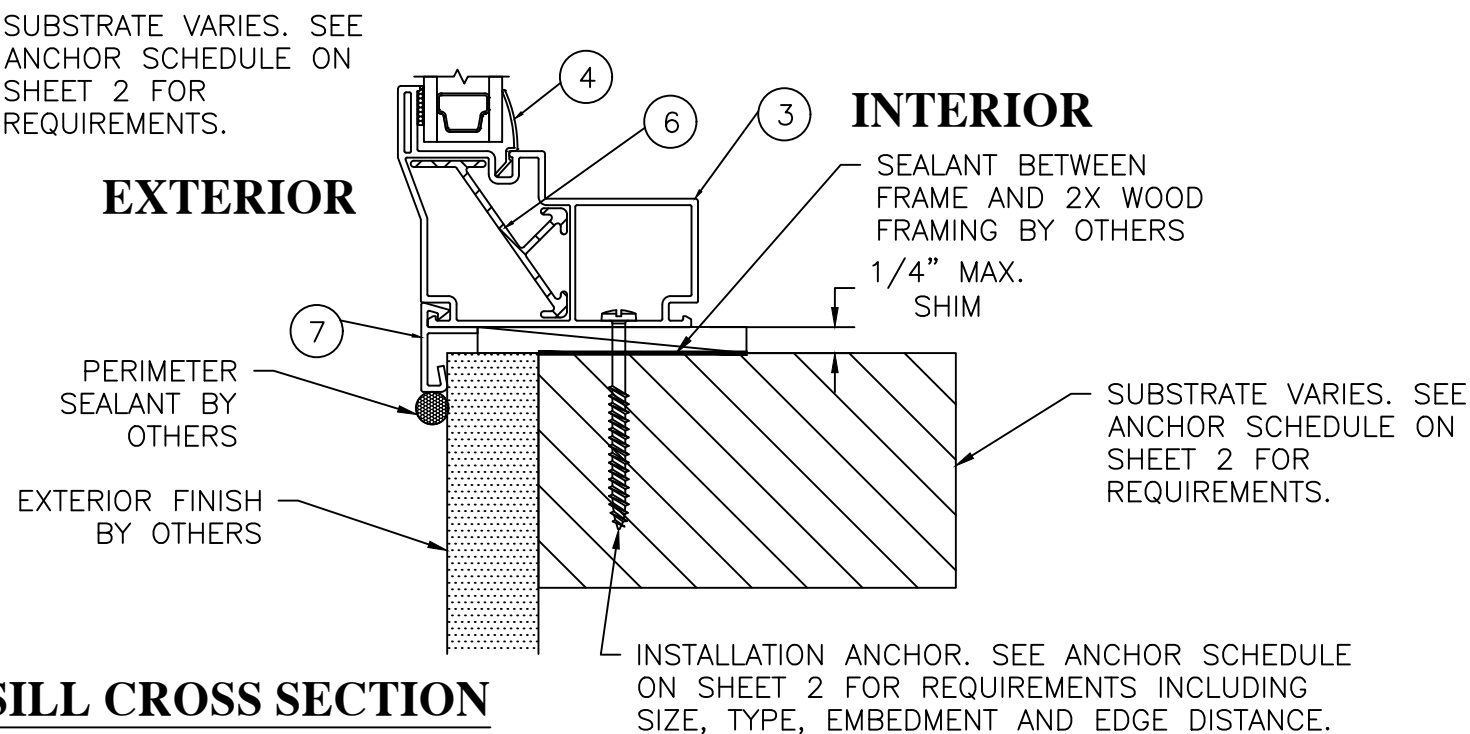
B HEAD CROSS SECTION
SNAP-ON FLANGE
THROUGH-FRAME INSTALLATION



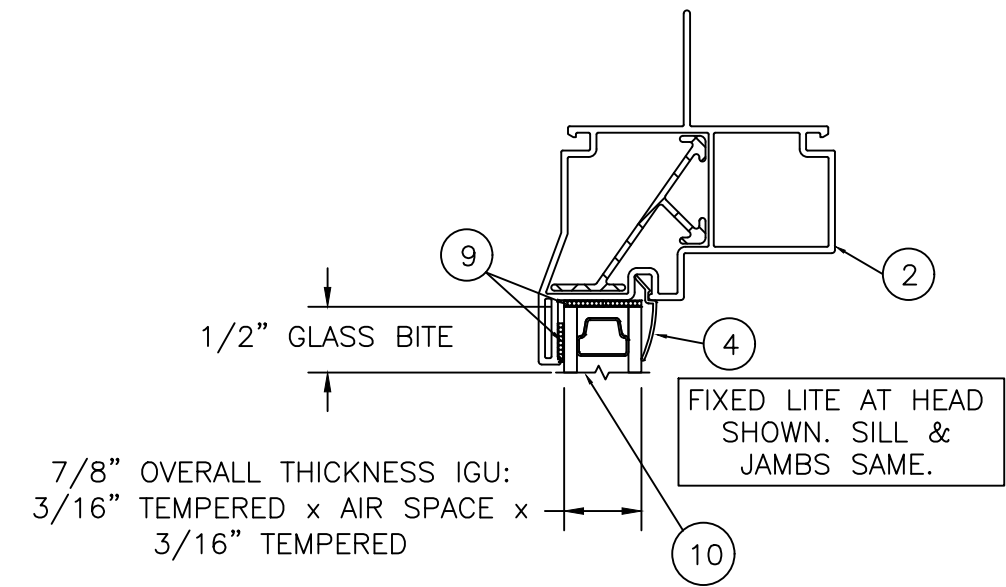
C JAMB CROSS SECTION
SNAP-ON FLANGE
THROUGH-FRAME INSTALLATION



A SILL CROSS SECTION
SNAP-ON FLANGE
THROUGH-FRAME INSTALLATION
WITH SILL CLIP



A SILL CROSS SECTION
SNAP-ON FLANGE
THROUGH-FRAME INSTALLATION



GLAZING DETAIL A

- NOTES:
- 1. A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH.
 - 2. AS-TESTED IGU SYSTEM SHOWN. SEE SHEET 1 FOR DETAILS RELATED TO WINDOW SIZE / GLAZING DETAIL / DESIGN PRESSURE.

BILL OF MATERIALS 8500 SERIES FIXED			
BOM NO.	PART NO.	DESCRIPTION	REMARKS
1	7868/9928	JAMB with fin / JAMB w/o fin	PVC
2	7868/9928	HEAD with fin / HEAD w/o fin	PVC
3	7868/9928	SILL with fin / SILL w/o fin	PVC
4	8764	GLAZING BEAD	PVC
5	--	SETTING BLOCK	NOT SHOWN
6	7868.1	REINFORCEMENT	6063 T5
7	8864	SNAP-ON FLANGE	PVC
8	6384	SILL CLIP	PVC
		GLAZING	
9		SILICONE SEALANT	
10	GLAZING DETAIL A	7/8" OVERALL THICKNESS IGU 3/16" TEMPERED x AIR SPACE x 3/16" TEMPERED	

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