

ECO GLASS LLC

SERIES S-3775 SINGLE HUNG WINDOW

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1.

THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO AAMA/WDMA/CSA 101/I.S.2/A440-11 & 17 DOCUMENTED IN TEST REPORT NO. NCTL-210-4193-1 BY NCTL.
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3.

1X BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4.

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF THE INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS THIS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED OR REGISTERED DESIGN PROFESSIONAL.
5.

IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL BE REQUIRED:
6.

MATERIALS:

6.1. FRAME: RIGID VINYL
7.

GLAZING:

7.1. INSULATING GLASS UNIT 19 MM (0.75") O.A. THICKNESS

7.1.1. SASH AND FIXED GLAZING

7.1.1.1. GLASS THICKNESS 3MM (1/8") ANNEALED

7.1.1.2. AIR GAP 12.7MM (0.50")

7.1.2. OVERALL (O.A.) THICKNESS AND AIR GAP CAN VARY BASED ON SPACER USED AND WILL NOT AFFECT GLAZING STRENGTH.

7.2. FOR PRODUCTS SMALLER THAN THE TESTED SPECIMEN, GLAZING IS PERMITTED TO BE THINNER AND/OR WEAKER THAN THAT SHOWN IN GENERAL NOTE 7.1 IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440-17, SECTION 10.2.3.3.1.

7.3. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.

8.

PANEL OPERABILITY DESIGNATIONS: X = OPERABLE AND O = FIXED

9.

PERIMETER AND JOINT SEALANT BY OTHERS TO BE DETAILED IN ACCORDANCE WITH THE FBC, RESIDENTIAL AND BUILDING VOLUMES AND WITH FMA/AAMA/WDMA PROTOCOLS. PERIMETER AND JOINT SEALANT IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND IS NOT PART OF THIS PRODUCT APPROVAL DOCUMENT.

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INSTALLATION NOTES:

1.

INSTALL ONE (1) ANCHOR AS INDICATED IN THE SECTION DETAILS ON SHEETS 4 THROUGH 7 AT EACH LOCATION SHOWN IN THE ELEVATION ON SHEET 2.

1.1. LOCATION TOLERANCE IS +/- 1/2".

1.2. FOR WINDOWS SMALLER THAN THAT SHOWN IN SHEET 2 ELEVATION, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING THE ANCHOR SPACING AND EDGE DISTANCE SHOWN.
2.

SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
3.

SEE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET FOR ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE REQUIREMENTS.

3.1. INSTALLATION ANCHORS SHALL BE CORROSION RESISTANT OR HAVE CORROSION RESISTANT COATING.

3.2. SEE INSTALLATION NOTE 4 FOR MINIMUM SUBSTRATE PROPERTIES.
4.

INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

4.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).

4.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

4.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

4.4. STEEL STUD - STRENGTH CONFORMING TO MIN. Fu = 33 KSI AND Ft = 45 KSI. MINIMUM THICKNESS 20 GA.

PERFORMANCE RATING		
MAXIMUM WINDOW SIZE (IN)	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
52 x 72	40	NONE

INSTALLATION ANCHORAGE SCHEDULE			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED. (IN)	MIN. EDGE DIST. (IN)
WOOD (SG = 0.42 MIN.)	NO. 10 PAN HEAD WOOD SCREW, GR. 2 STRENGTH	1 3/8	3/4
CONCRETE (2.5 KSI MIN.)	3/16" HH ITW TAPCON	1 1/2	1 1/8
MASONRY (ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF)	3/16" HH ITW TAPCON	1	2
STEEL STUD, 20 GA OR GREATER THICKNESS, MIN. Fu = 33 ksi AND Ft = 45 ksi	NO. 10 SELF-DRILLING SHEET METAL SCREW	FULL THICKNESS OF MEMBER PLUS 3 FULL THREAD LENGTHS PAST INTERIOR	1/2

PROJECT NO. ACE-2021-001				BY
				DATE
				DESCRIPTION
				REV

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3775 SINGLE HUNG WINDOW INSTALLATION AND GENERAL NOTES	DRAWN BY: RJA	DATE: 2/28/21	DRAWING NO: EOCGLASS012	SHEET: 1 OF 9
		SCALE: N.T.S.			
		REV: ---			
		ECO GLASS ADVANCED FLORIDA WINDOW SOLUTION 321-207-0507 info@vk-ecoglass.com			

Robert J. Amoruso, P.E.
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PROFESSIONAL ENGINEER

STATE OF FLORIDA

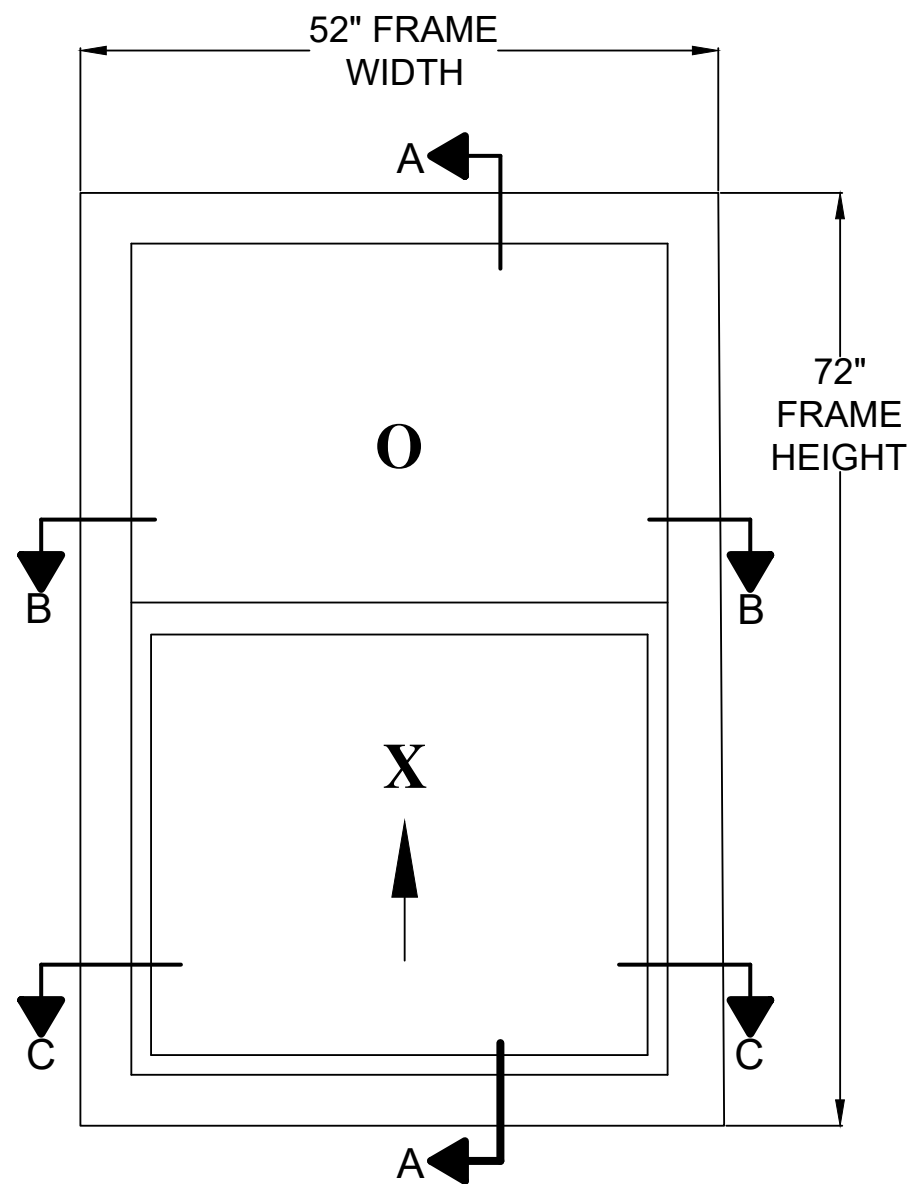
NO 49752

ROBERT JAMES AMORUSO

Digitally signed by Robert J Amoruso

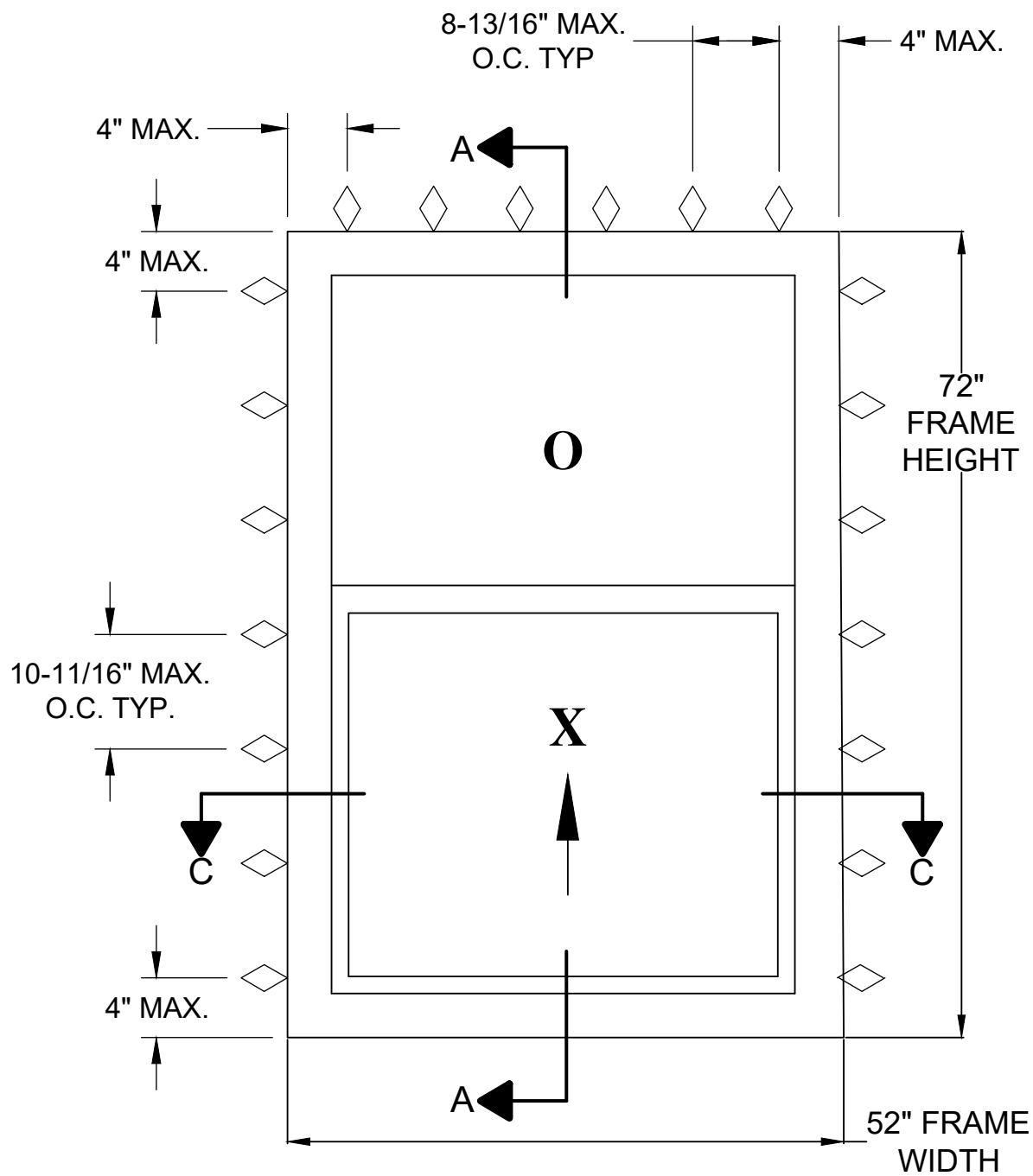
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MAXIMUM SIZES	
FRAME	52" X 72"
SASH	49.25" X 35.75"
DLO - SASH	45.75" X 32.325"
DLO - FIXED	44.625" X 31.75"

**SERIES S-3775 SINGLE
HUNG WINDOW**
EXTERIOR VIEW



**BLOCK/EQUAL LEG THROUGH
FRAME AND CLIP INSTALLATION**
EXTERIOR VIEW

◇ ANCHOR/FASTENER

PROJECT NO. ACE-2021-001

DATE

BY

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE:
SERIES S-3775 SINGLE HUNG WINDOW
EXTERIOR ELEVATION AND ANCHORAGE

DRAWN BY:
RJA

SCALE:
N.T.S.

REV:

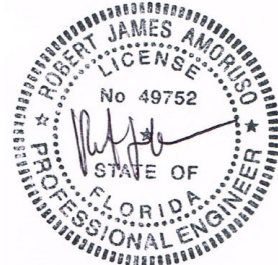
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2/28/21

DRAWING NO:
ECOGLOSS012

SHEET:
2 OF 9



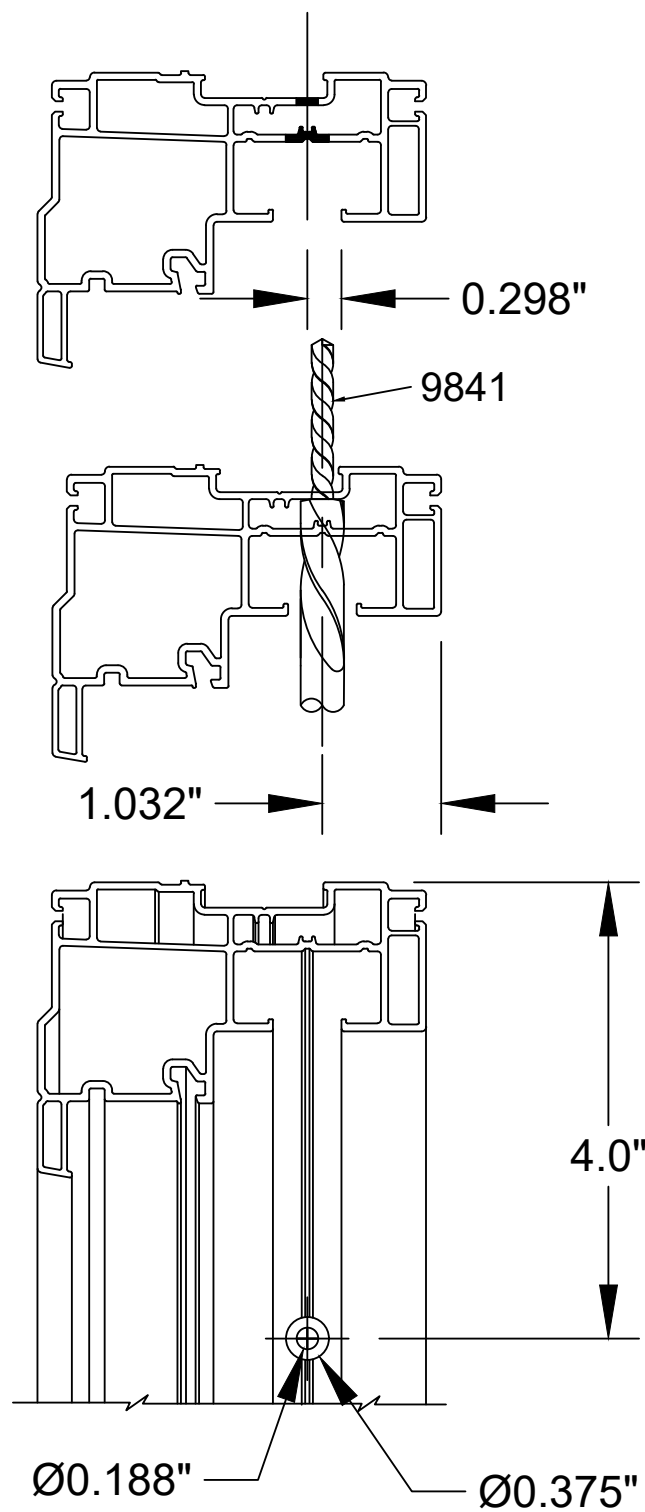
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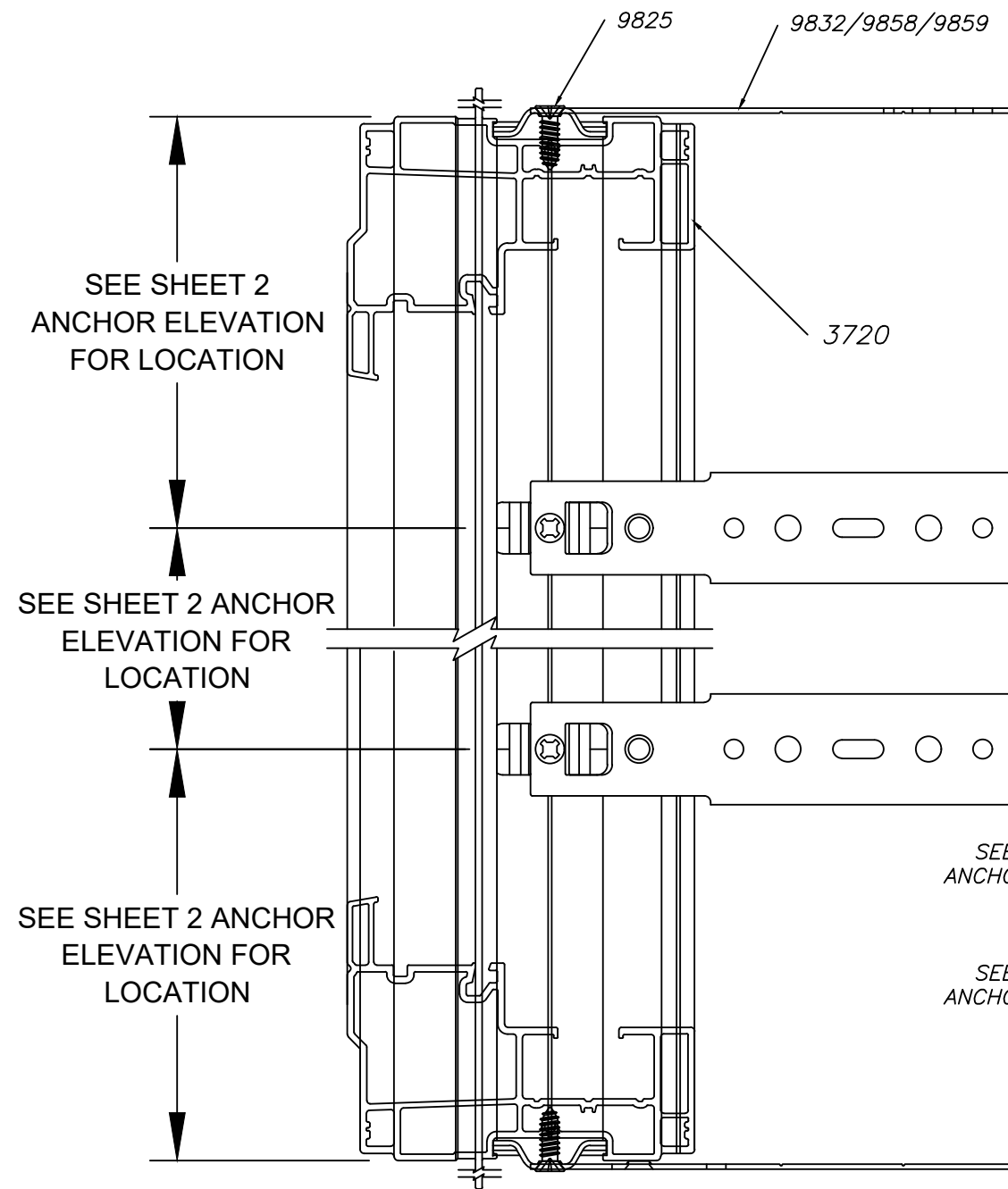
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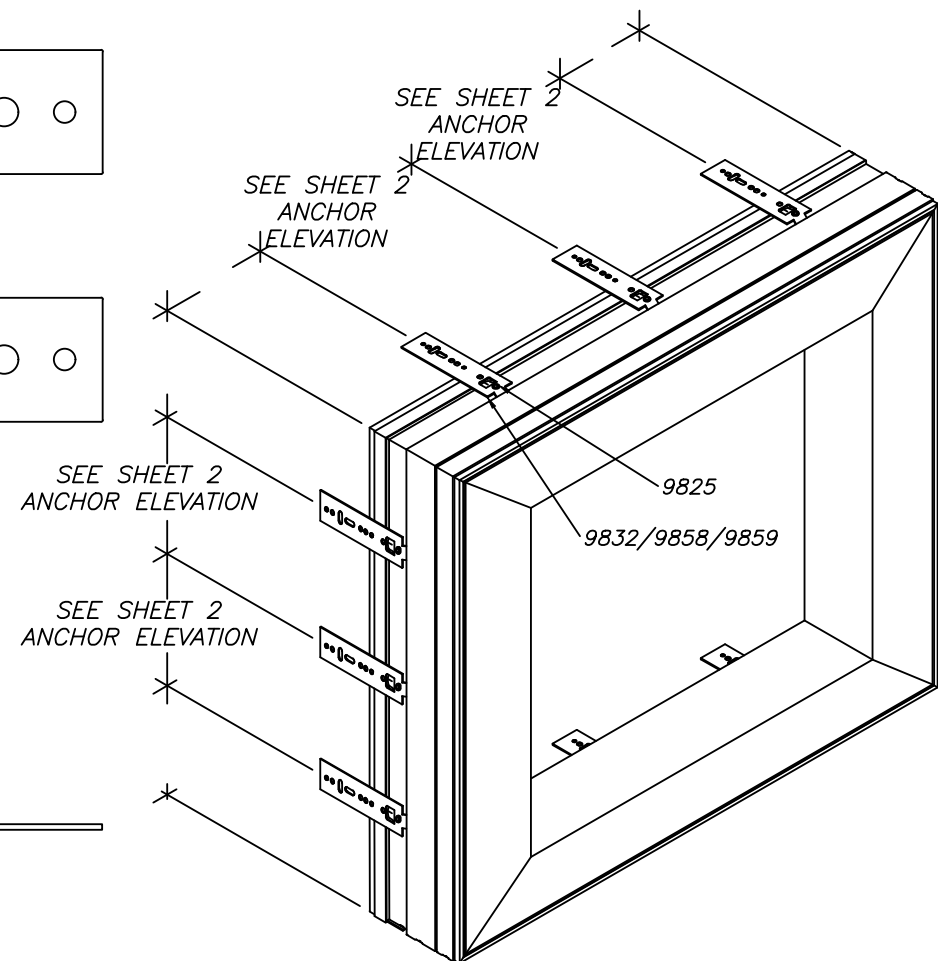
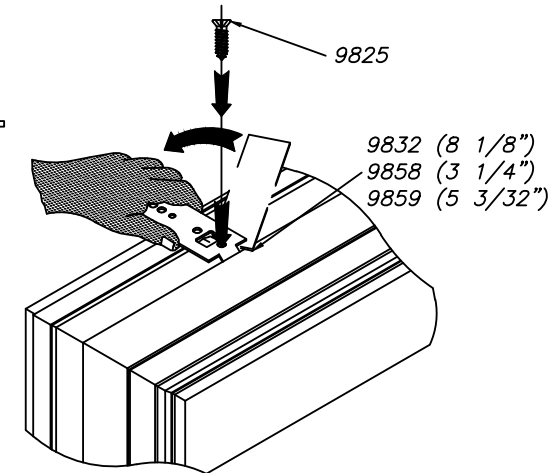
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**THROUGH-FRAME
INSTALLATION DETAIL A**



CLIP INSTALLATION DETAIL B



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144 HOPE STREET
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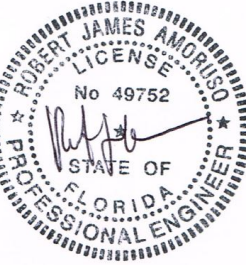
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INSTALLATION DETAILS A & B

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DATE: 2/28/21
SCALE: N.T.S.
REV: ---



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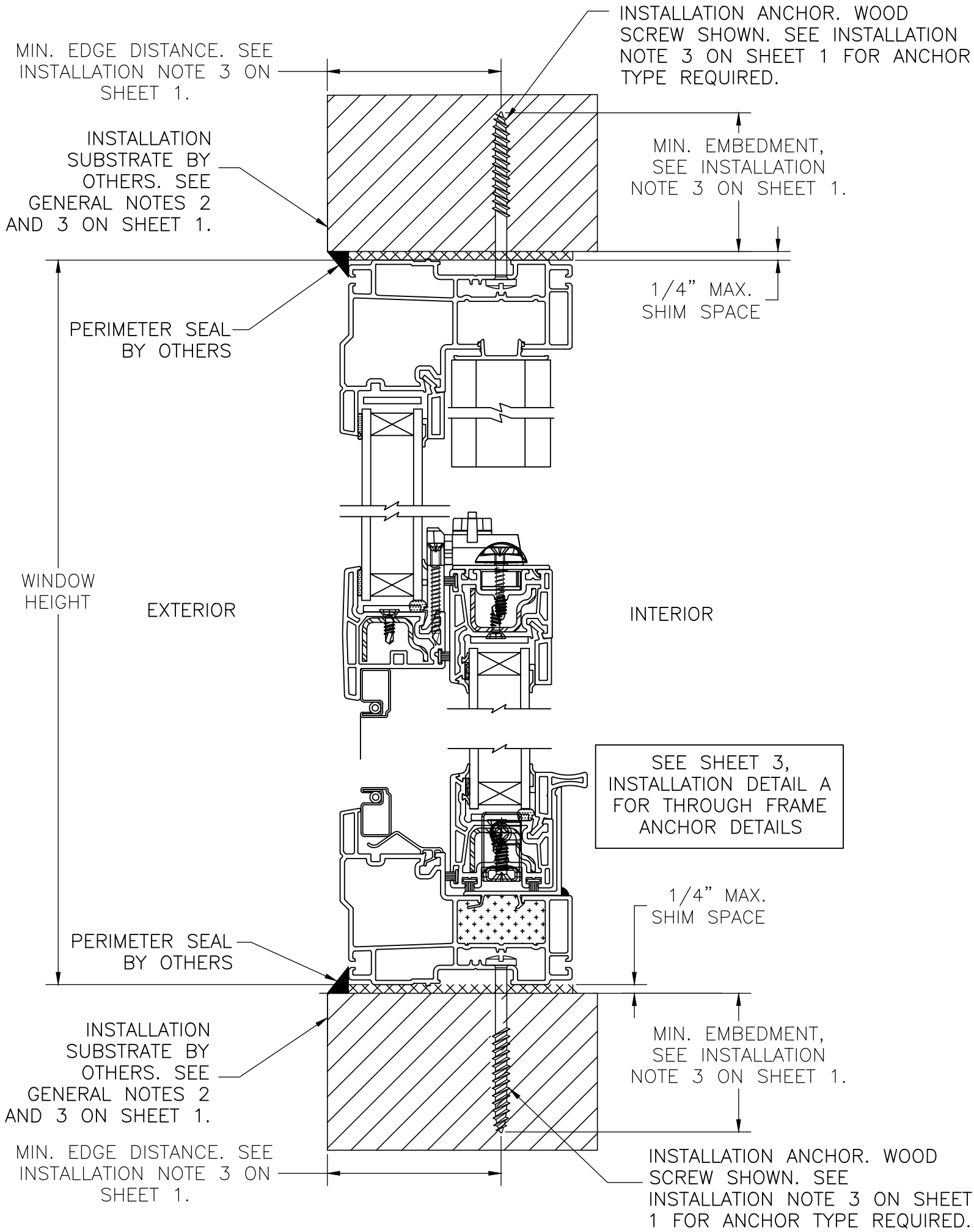
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**VERTICAL CROSS SECTION A-A
THROUGH FRAME INSTALLATION**
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED
(CROSS SECTION B-B INSTALLATION SAME)



PROJECT NO. ACE-2021-001

				BY
				DATE
				DESCRIPTION
				REV

ECO GLASS, LLC
144 HOPE STREET
LONGWOOD, FL 32750

TITLE:
SERIES S-3775 SINGLE HUNG WINDOW
VERTICAL SECTION A - THROUGH FRAME INSTALLATION

DRAWN BY: RJA
DATE: 2/28/21
SCALE: N.T.S.
REV: ---

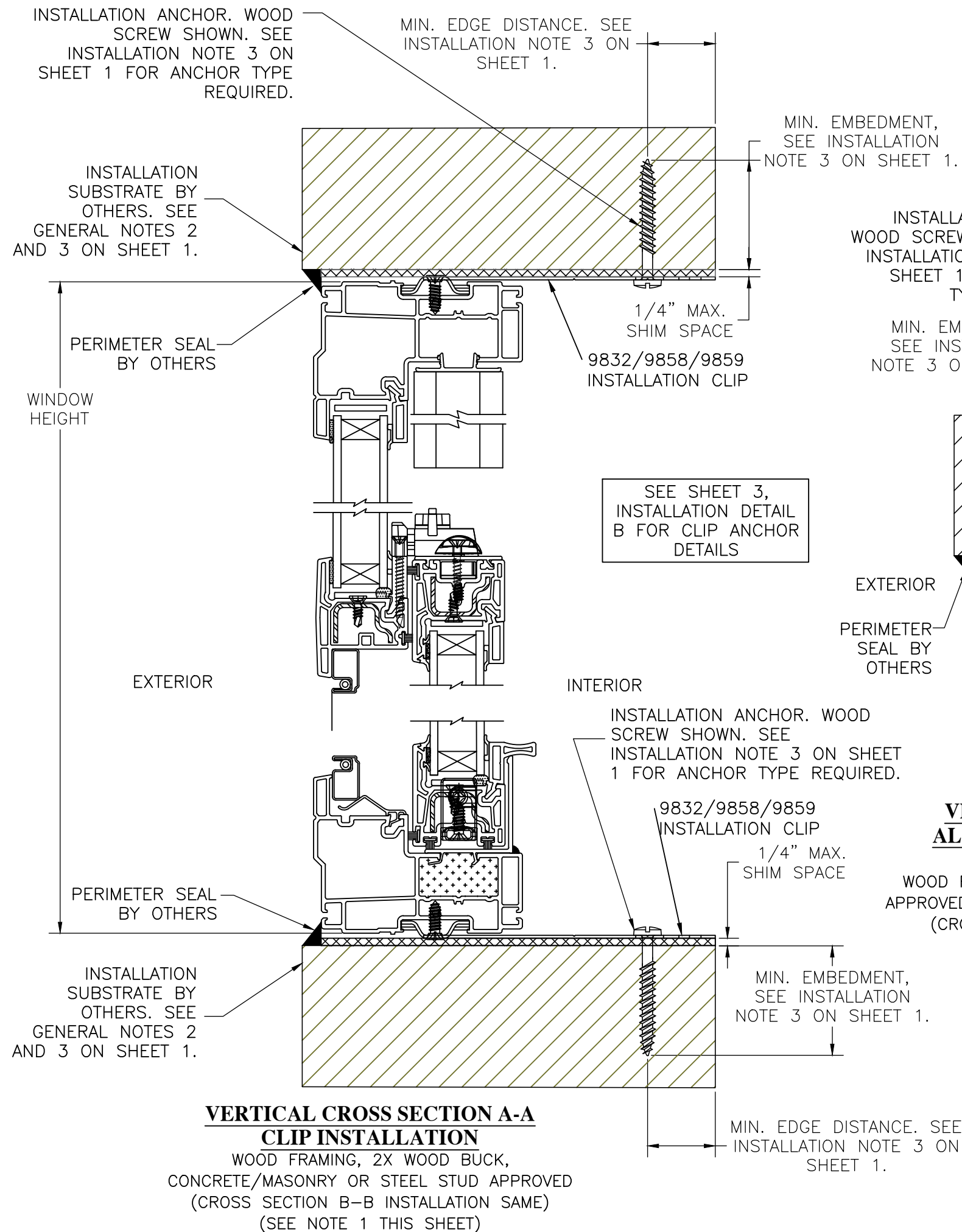
DRAWING NO: ECOGLASS012
SHEET: 4 OF 9

ADVANCED FLORIDA WINDOW SOLUTION
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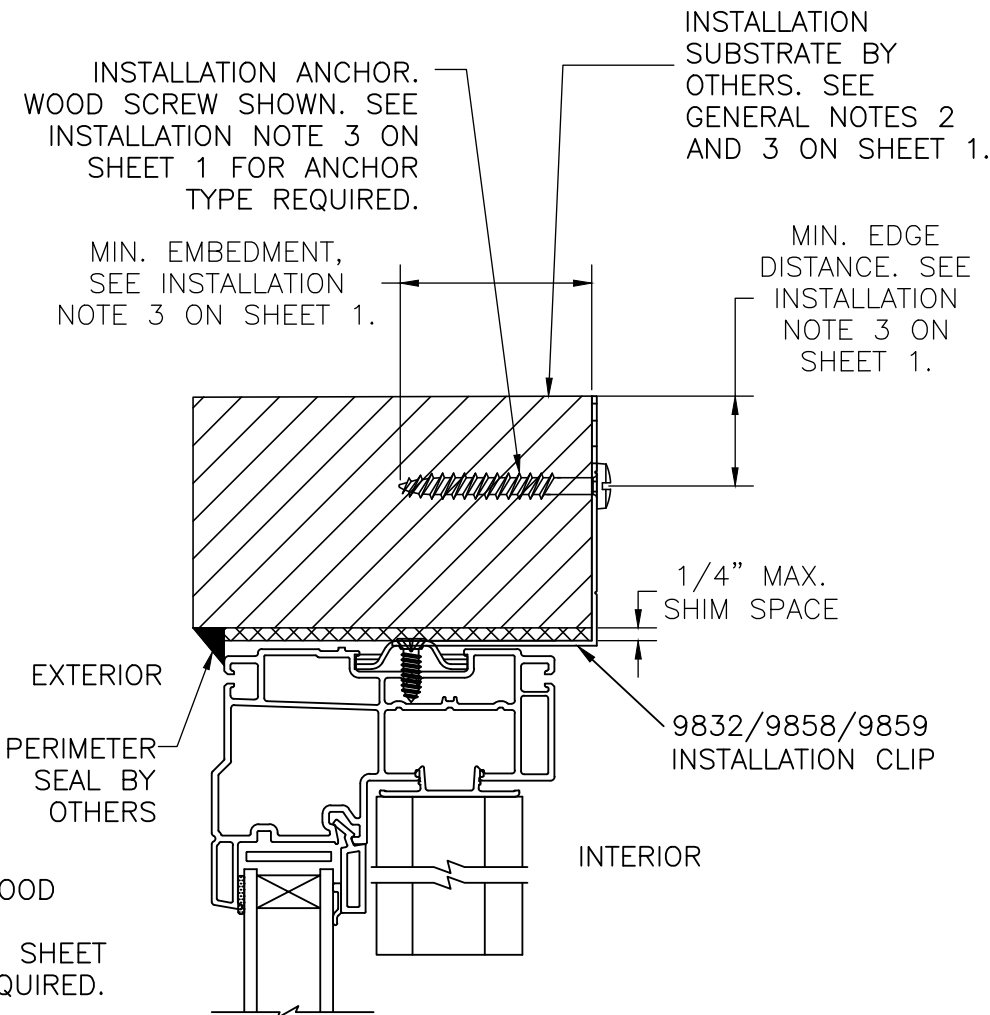
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11:13:36 -05'00'

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NOTE 1: INSTALLATION CLIP MAY BE TRIMMED TO ACCOMMODATE INTERIOR FINISHING.
NOTE 2: INSTALLATION CLIP MAY BE BENT TO ACCOMMODATE INTERIOR FINISHING.



**VERTICAL CROSS SECTION A-A
ALTERNATE CLIP INSTALLATION
(HEAD SHOWN, SILL SAME)**

WOOD FRAMING, 2X WOOD BUCK OR STEEL STUD
APPROVED (CONCRETE/MASONRY NOT RECOMMENDED)
(CROSS SECTION B-B INSTALLATION SAME)
(SEE NOTE 1 & 2 THIS SHEET)

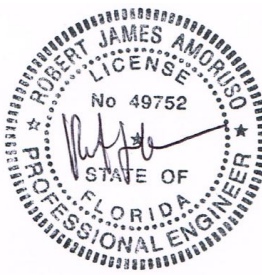
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				DATE
				DESCRIPTION
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		SCALE: N.T.S.			
		REV:			



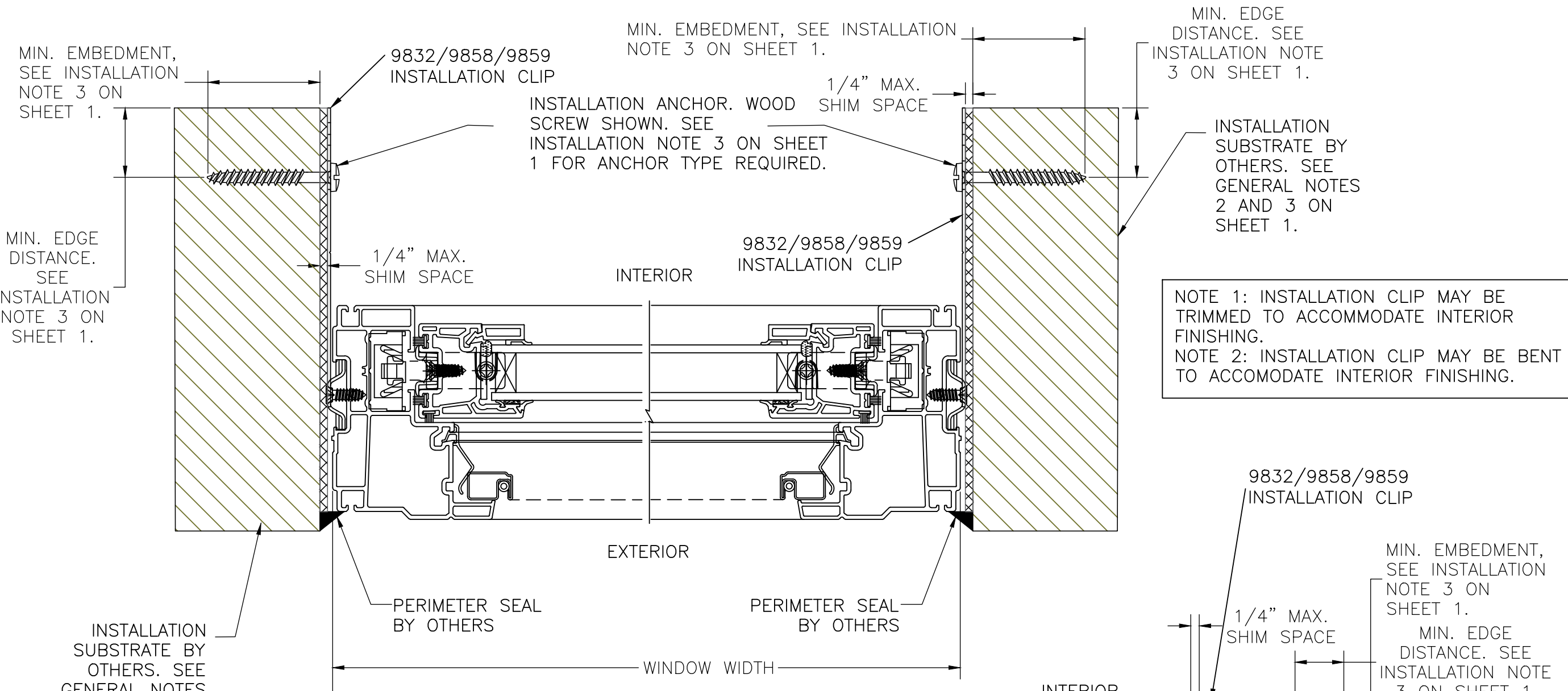
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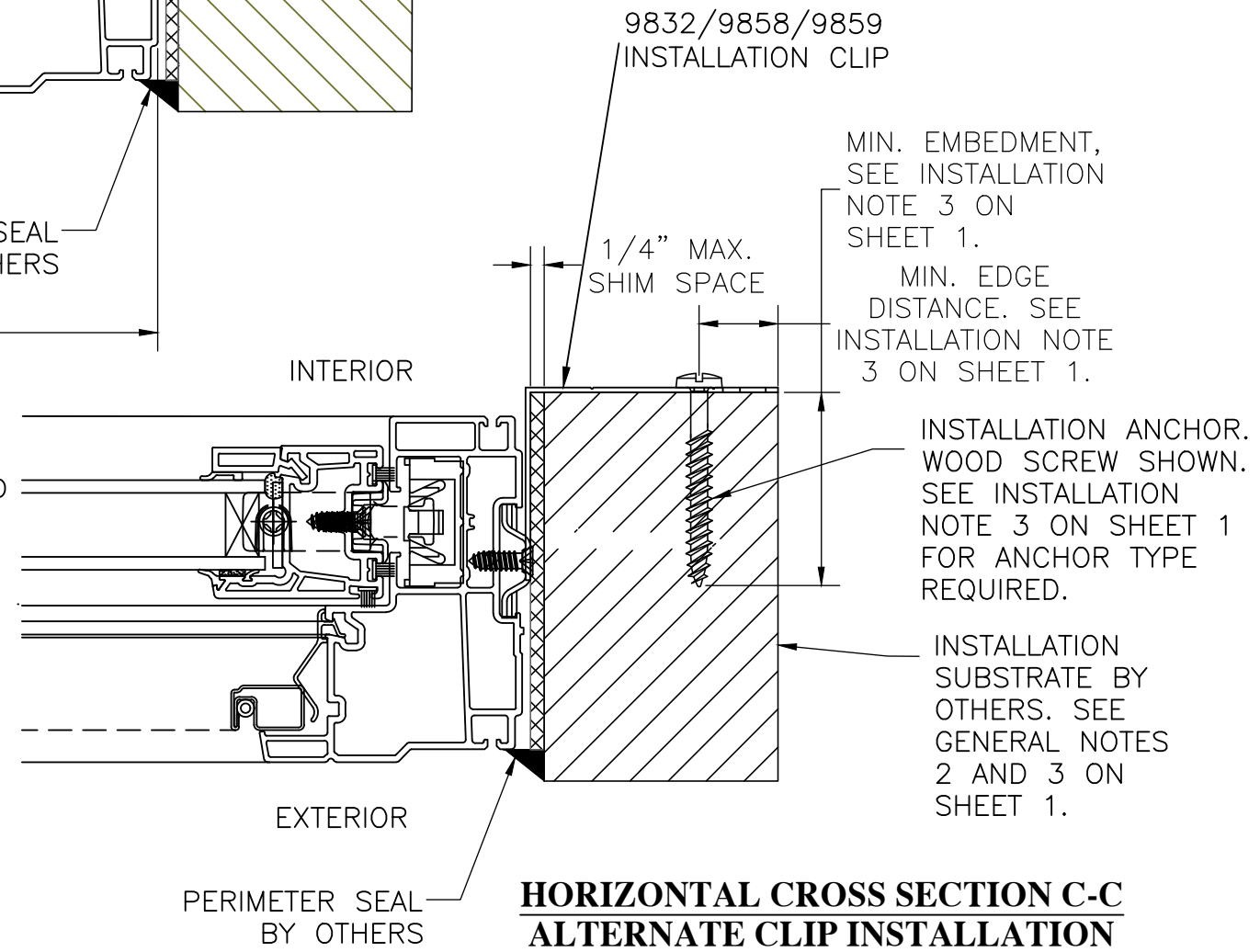


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HORIZONTAL CROSS SECTION C-C
WOOD FRAMING, 2X WOOD BUCK,
CONCRETE/MASONRY OR STEEL STUD APPROVED



**HORIZONTAL CROSS SECTION C-C
ALTERNATE CLIP INSTALLATION
(RIGHT JAMB SHOWN, LEFT JAMB SAME)**
WOOD FRAMING, 2X WOOD BUCK OR STEEL STUD
APPROVED (CONCRETE/MASONRY NOT RECOMMENDED)
(SEE NOTE 1 & 2 THIS SHEET)

NOTE 1: INSTALLATION CLIP MAY BE TRIMMED TO ACCOMMODATE INTERIOR FINISHING.
NOTE 2: INSTALLATION CLIP MAY BE BENT TO ACCOMMODATE INTERIOR FINISHING.

SEE SHEET 3,
INSTALLATION DETAIL
B FOR CLIP ANCHOR
DETAILS

PROJECT NO. ACE-2021-001				BY
				DATE
				DESCRIPTION
				REV

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3775 SINGLE HUNG WINDOW HORIZONTAL SECTION C - CLIP INSTALLATION	DRAWN BY: RJA	DATE: 2/28/21	DRAWING NO: ECOGLOSS012	SHEET: 7 OF 9
		SCALE: N.T.S.			
		REV:			



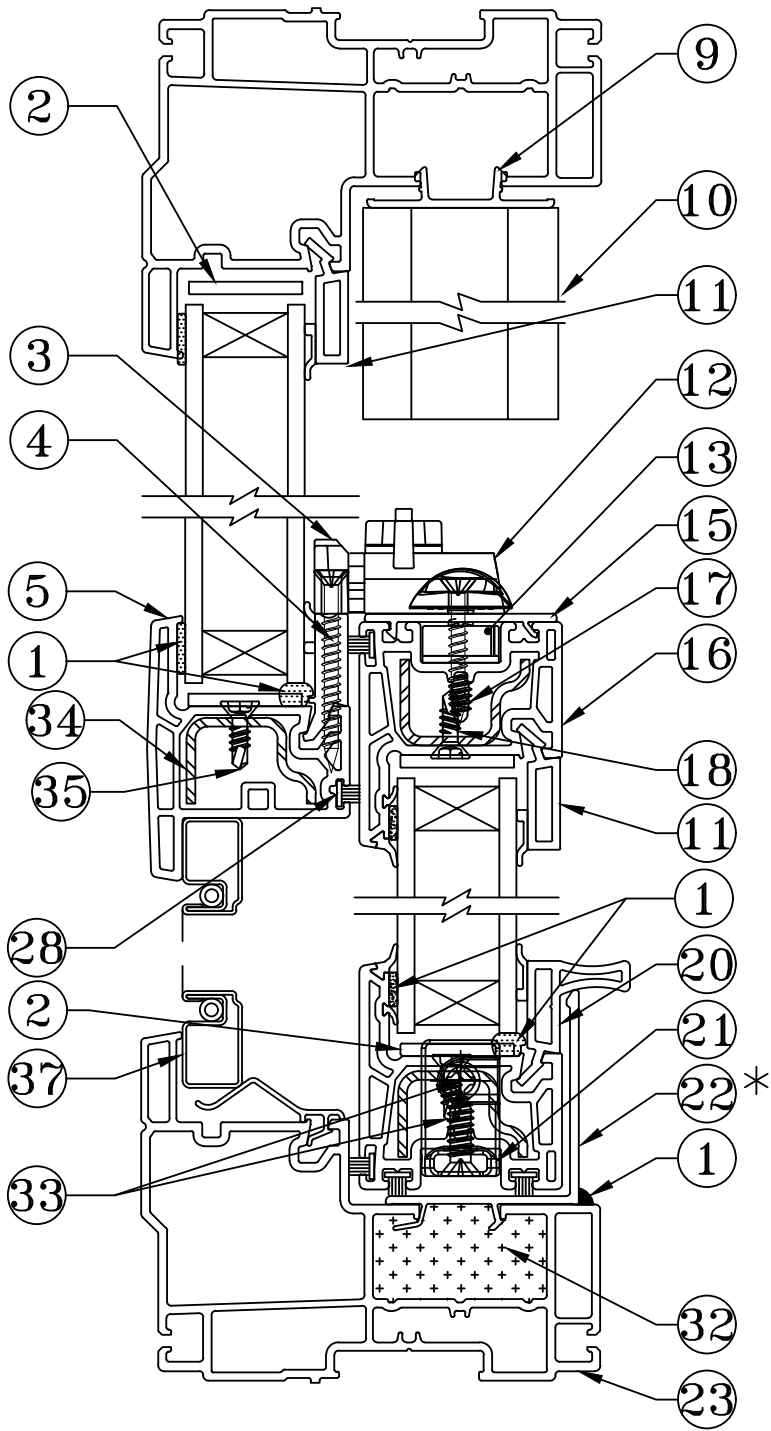
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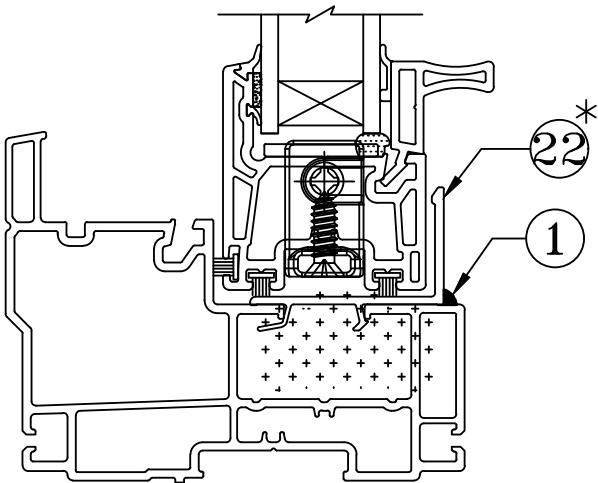
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Item	PART No.	ITEM DESCRIPTION	MANUFACTURERS
1		Sealant	Various
2	9828	Setting block	P.H. Tech
3	45070	Keeper	Truth
4	9752	No. 6 x 1 1/2", flat head, Quadrex screw	P.H. Tech
5	5960	Fixed meeting rail	P.H. Tech
6		Glass	Various
7	9820-L	Anchor (left)	P.H. Tech
8	9820-R	Anchor (Right)	P.H. Tech
9	5832	Covering cap	P.H. Tech
10	5872	Sash stopper	P.H. Tech
11	5800	Glazing bead	P.H. Tech
* 12	17.35.xx.xxx 17.77.xx.xxx	Cam lock	Truth
13	9501-R	Tilt latch assembly (Right)	P.H. Tech
14	9501-L	Tilt latch assembly (Left)	P.H. Tech
15	5826	Meeting rail covering cap	P.H. Tech
16	5751	Sash profile	P.H. Tech
17	9755	No. 8 x 5/8", truss head, Quadrex screw.	P.H. Tech
18	8943	No. 6-15 x 1 1/8", flat head, Quadrex screw	P.H. Tech
19	8868	Weatherstrip	Schlegel # PBAB-8325-187
20	5810	Handle glazing bead	P.H. Tech
* 21	8931,9514	Pivot bar	P.H. Tech
* 22	5825, 5865	Sash retainer (main, high)	P.H. Tech
23	3723	Main frame	P.H. Tech
24	9502	Button	P.H. Tech
25	9756	No. 8-18 x 1", flat head, Quadrex screw	P.H. Tech
26	5828	Balance cover	P.H. Tech
27		Balance	Various
28	9774	Weatherstrip	Schlegel #HF-7625-187 NAP #RPHF018726
29	8932	Pivot shoe	P.H. Tech or Various
30	9738	Sliding shoe	P.H. Tech
31	9854	No. 10-12 x 1/2", special No. 7 flat head, Quadrex screw.	P.H. Tech
32	9873	Corner block	P.H. Tech
33	9825	No. 10-12 x 5/8", special No. 7 flat head, Quadrex screw.	P.H. Tech
34	9536	Sash & Mullion steel reinforcement	P.H. Tech
35	9753	No. 7 x 1/2", Flat Head, Quadrex Screw	P.H. Tech
36	5959	Screen clip	P.H. Tech
37		Screen	Various

* = Options



**VERTICAL CROSS
SECTION A-A**



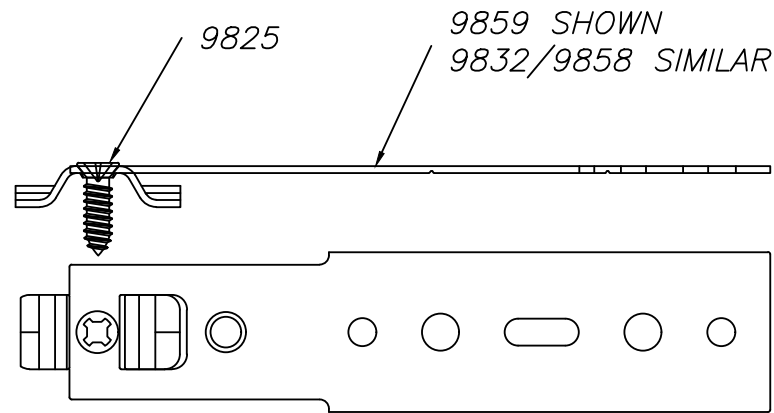
PROJECT NO. ACE-2021-001					BY
					DATE
					DESCRIPTION
					REV

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		SCALE: N.T.S.		REV: ---	

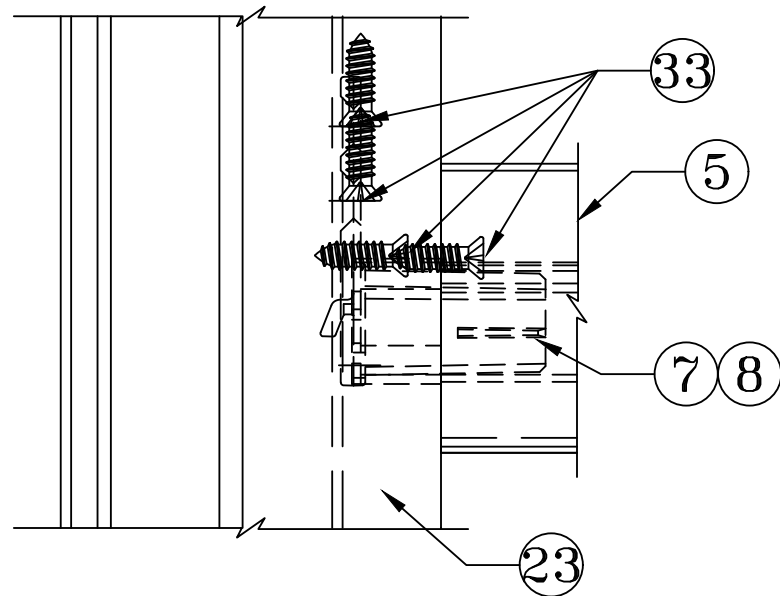
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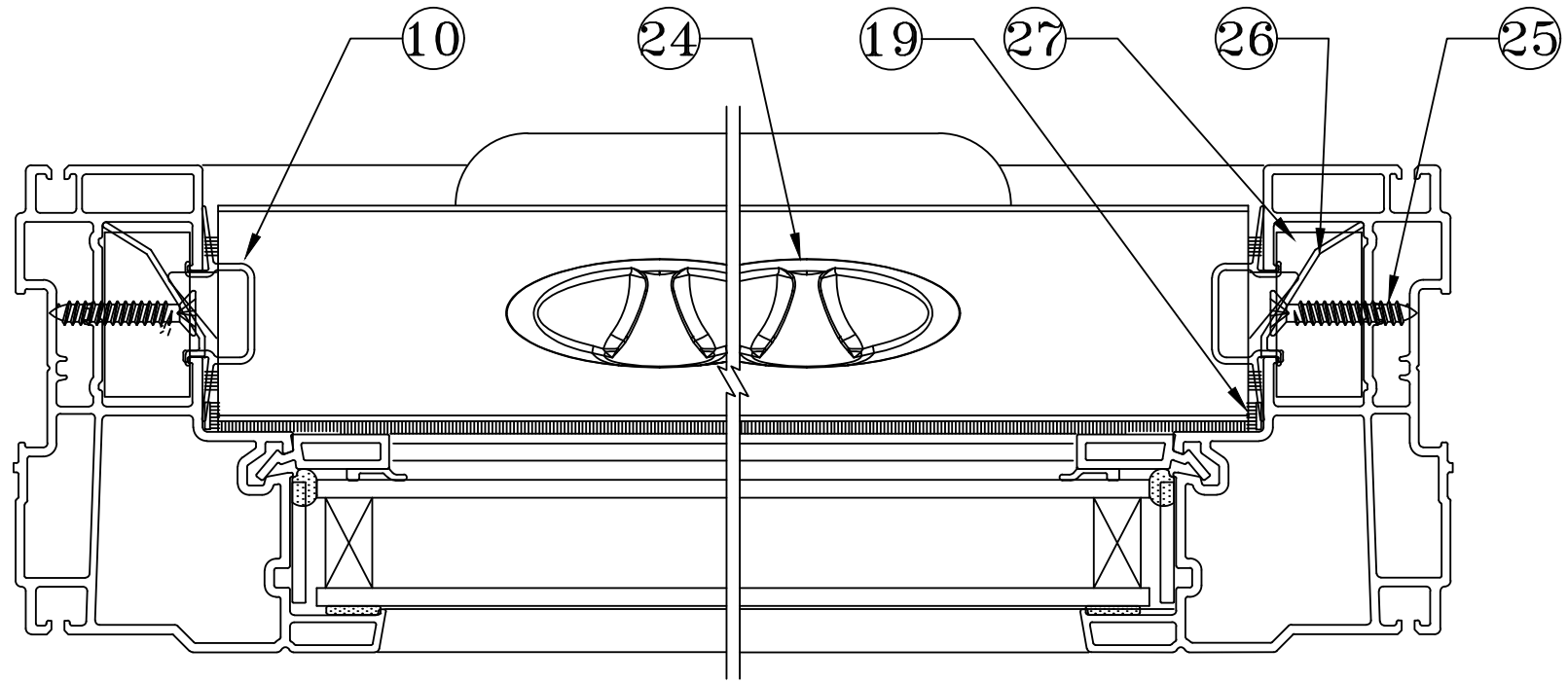
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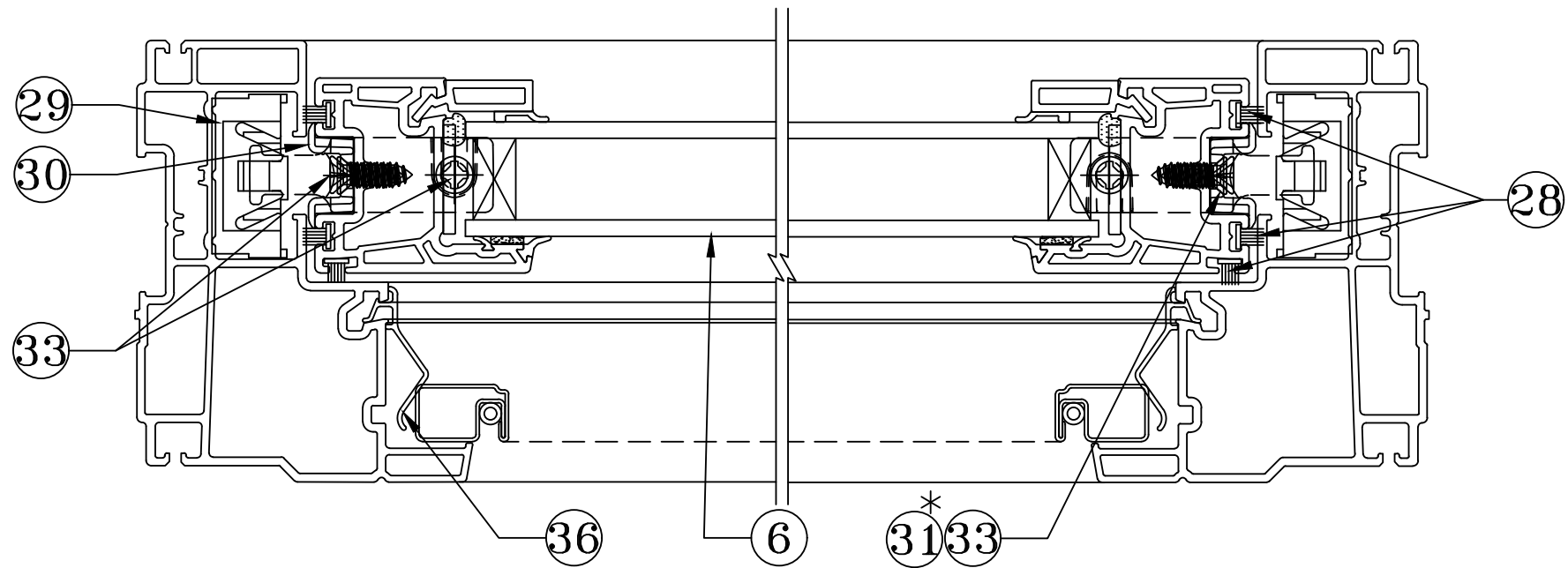
INSTALLATION CLIP
9859 SHOWN
9832 & 9858 SIMILAR
(CLIP LENGTH AND FASTENER HOLE
PATTERN VARIES)



**MEETING RAIL TO
FRAME
ANCHOR DETAIL**



**HORIZONTAL
CROSS SECTION B-B**



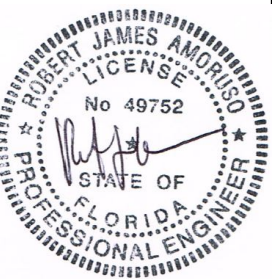
**HORIZONTAL
CROSS SECTION C-C**

PROJECT NO. ACE-2021-001	REV	DESCRIPTION	DATE	BY

ECO GLASS, LLC 144 HOPE STREET LONGWOOD, FL 32750	TITLE: SERIES S-3775 SINGLE HUNG WINDOW HORIZONTAL COMPONENT CROSS-SECTIONS & CLIP	DRAWN BY: RJA	DATE: 2/28/21	DRAWING NO: ECOGLOSS012	SHEET: 9 OF 9
		SCALE: N.T.S.		REV:	



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