

s:\projects\windsor windows and doors\fb-c-17-0810 windsor windows and doors - fb-c-submittal- (111619, 111619) dwgs\casement\impact\wwd016.dwg 9/18/2017 8:20 PM

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH BASED ON QUANTITIES IN DP CHARTS NOT TO EXCEED THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. **THROUGH FRAME:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. **THROUGH FRAME:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 1/4" DIAMETER ITW TAPCONS, ELCO ULTRACONS, ELCO CRETE-FLEX OR HILTI KWIK-CON II OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4" MINIMUM EMBEDMENT.
7. **THROUGH FRAME:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10 GR. 5 SELF TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
8. CLIPS SHALL BE FASTENED TO THE WINDOW FRAME WITH (2) #8 X 5/8" SCREWS. CLIPS ARE 20 GAUGE (0.063" THICKNESS) F'y=33 KSI MIN STEEL WITH OVERALL DIMENSIONS OF 1.5" WIDE, 7.813" ALONG THE LONG LEG, AND 1.942" ALONG THE SHORT LEG.
9. **CLIP ANCHOR:** FOR INSTALLATION INTO WOOD FRAMING USE (2) #8 WOOD SCREWS PER CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
10. **CLIP ANCHOR:** FOR INSTALLATION INTO METAL STUD USE (2) #8 GR. 5 SELF-TAPPING SCREWS PER CLIP OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND THE METAL STRUCTURE.
11. 1.5" X 1.5" X 0.060" 6063-T5 ALUMINUM NAIL FIN SHALL BE FASTENED TO THE WINDOW FRAME WITH #8 X 1/2" SCREWS, 8" MAX. ON CENTER AND 4" MAX. FROM CORNERS, AND 3M VHB TAPE.
12. **NAIL FIN:** FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OR USE 10D COMMON NAIL OR 11 GAUGE ROOFING NAIL PER LOCATION OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
13. **NAIL FIN:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #8 GR. 5 SELF TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
14. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
15. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
16. FOR GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
17. 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 BY THE ANCHOR MANUFACTURER.

WINDSOR WINDOWS & DOORS

PINNACLE CLAD CASEMENT WINDOW

IMPACT RATED

CONTINUED INSTALLATION NOTES:

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

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

E. ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8" (0.125").

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

AAMA/WDMA/CSA 101/I.S.2/A440-11

ASTM E 1886-05

ASTM E 1996-06/12
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 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 ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 3 OR LESS
6. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 4 OR MORE
7. WINDOW FRAME MATERIAL: WOOD
WINDOW CLADDING MATERIAL: ALUMINUM 6063-T5
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAILS.

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	INSTALLATION & GENERAL NOTES
2	-	ELEVATIONS, ANCHOR LAYOUTS & GLAZING DETAILS
3	-	NAIL FIN INSTALLATION SECTIONS
4	-	THROUGH FRAME INSTALLATION SECTIONS
5	-	CLIP INSTALLATION SECTIONS

DESIGN PRESSURE TABLE						
TYP. OVERALL SIZE		DESIGN PRESSURE	CONFIGURATION	INSTALLATION METHOD	IMPACT RATING	WIND ZONE RATING
WIDTH	HEIGHT					
30"	72"	+65/-65 PSF	"X"	CLIP, THROUGH FRAME OR NAIL FIN	LMI AND SMI	WZ4
36"	72"	+50/-50 PSF	"X"	CLIP, THROUGH FRAME OR NAIL FIN	LMI AND SMI	WZ3



WINDSOR WINDOWS & DOORS
900 S. 19TH STREET.
WEST DES MOINES, IA 50265
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD CASEMENT (IMPACT)

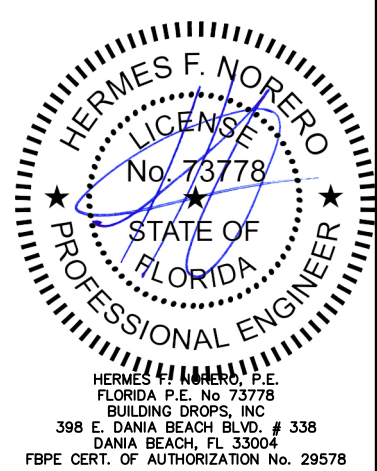
INSTALLATION AND GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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FL #:

FL11619

DATE:

08.30.17

DWG. BY:

RV

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

WWD016

SHEET:

1

OF 5



WINDSOR WINDOWS
& DOORS

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WEST DES MOINES, IA 50265
PH: (515)223-6660 FAX: (515)224-1938

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(IMPACT)

ELEVATIONS, ANCHOR LAYOUT
& GLAZING DETAIL

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BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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HERMES F. NORERO

LICENSEE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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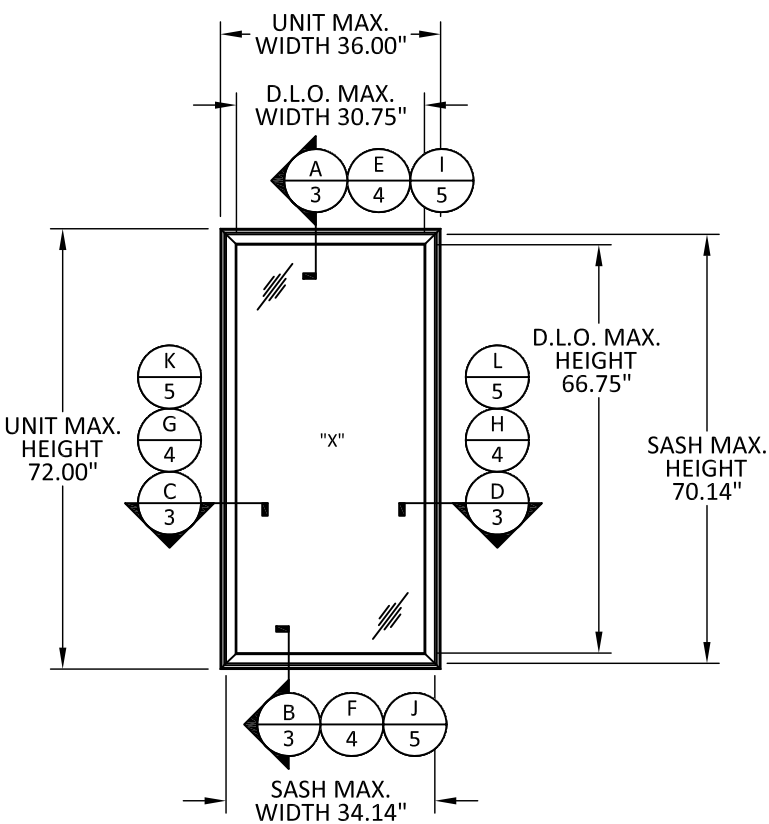
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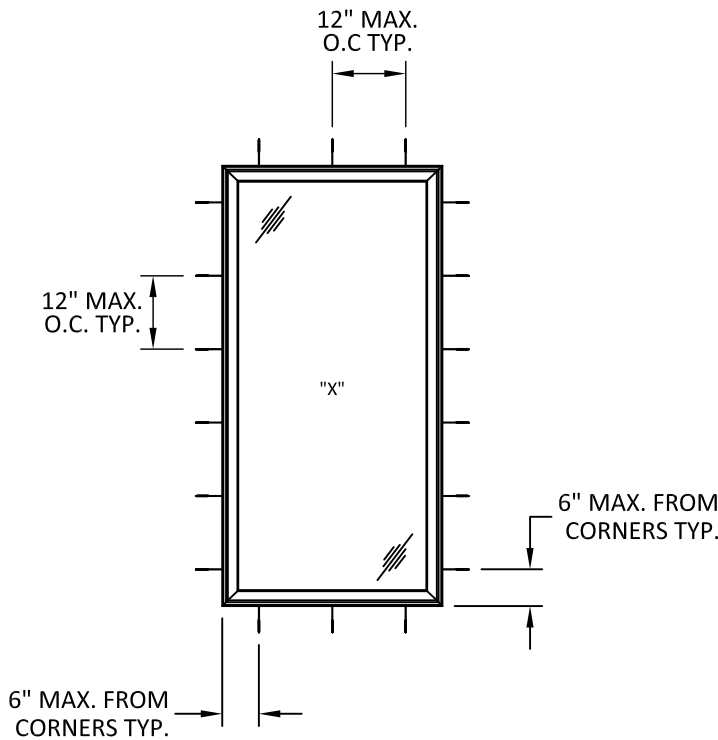
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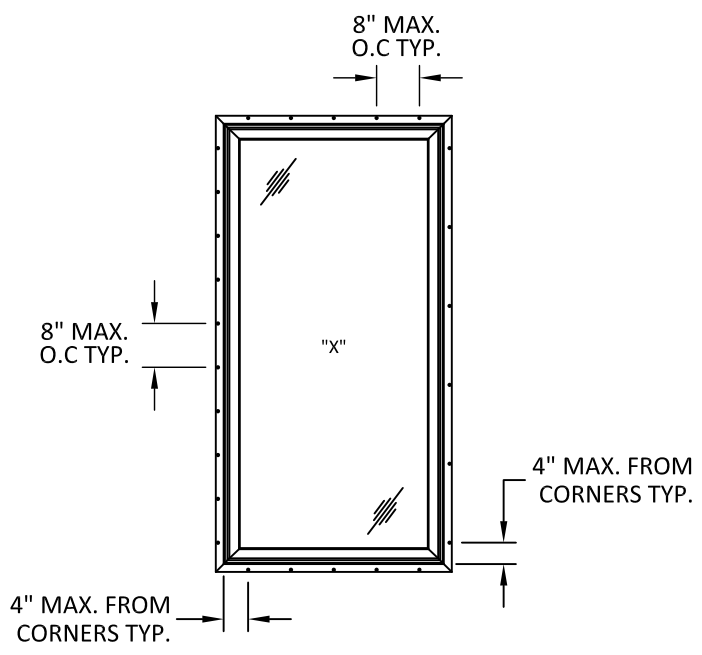
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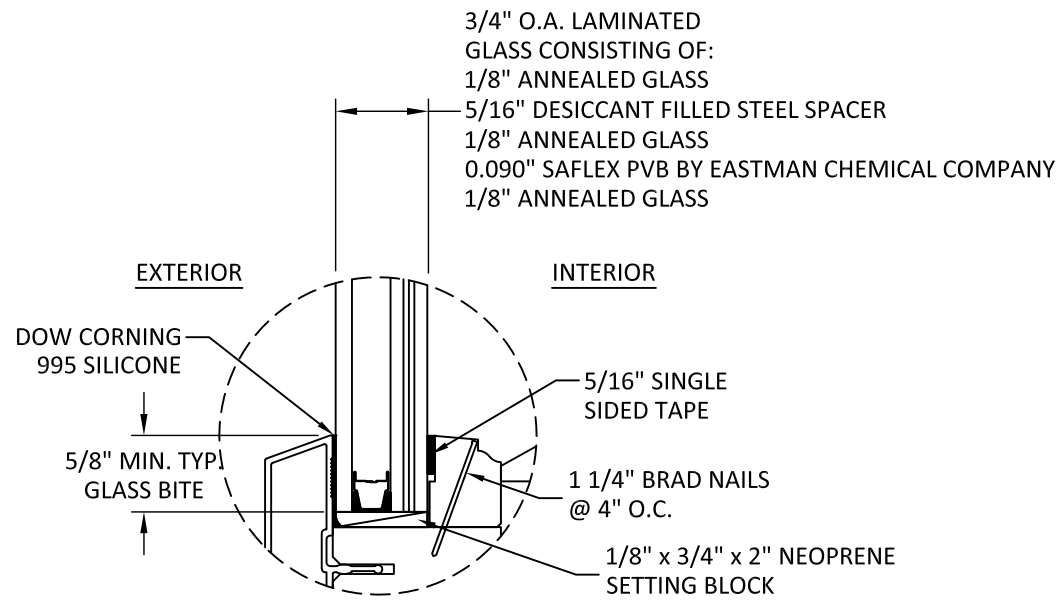
TYPICAL ELEVATION
CASEMENT



ANCHOR LAYOUT
CLIP OR THROUGH FRAME INSTALLATION



ANCHOR LAYOUT
NAIL FIN INSTALLATION



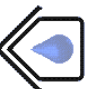
GLAZING DETAIL

NOTE:
INSTALLATIONS HIGHER THAN 30'
ABOVE GRADE SHALL BE SAFETY
GLAZED IN ACCORDANCE WITH FBC
REQUIREMENTS.

TITLE: PINNACLE CLAD CASEMENT
(IMPACT)

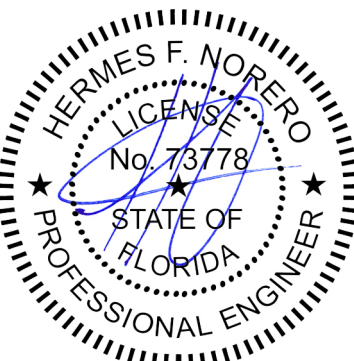
NAIL FIN INSTALLATION
SECTIONS

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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
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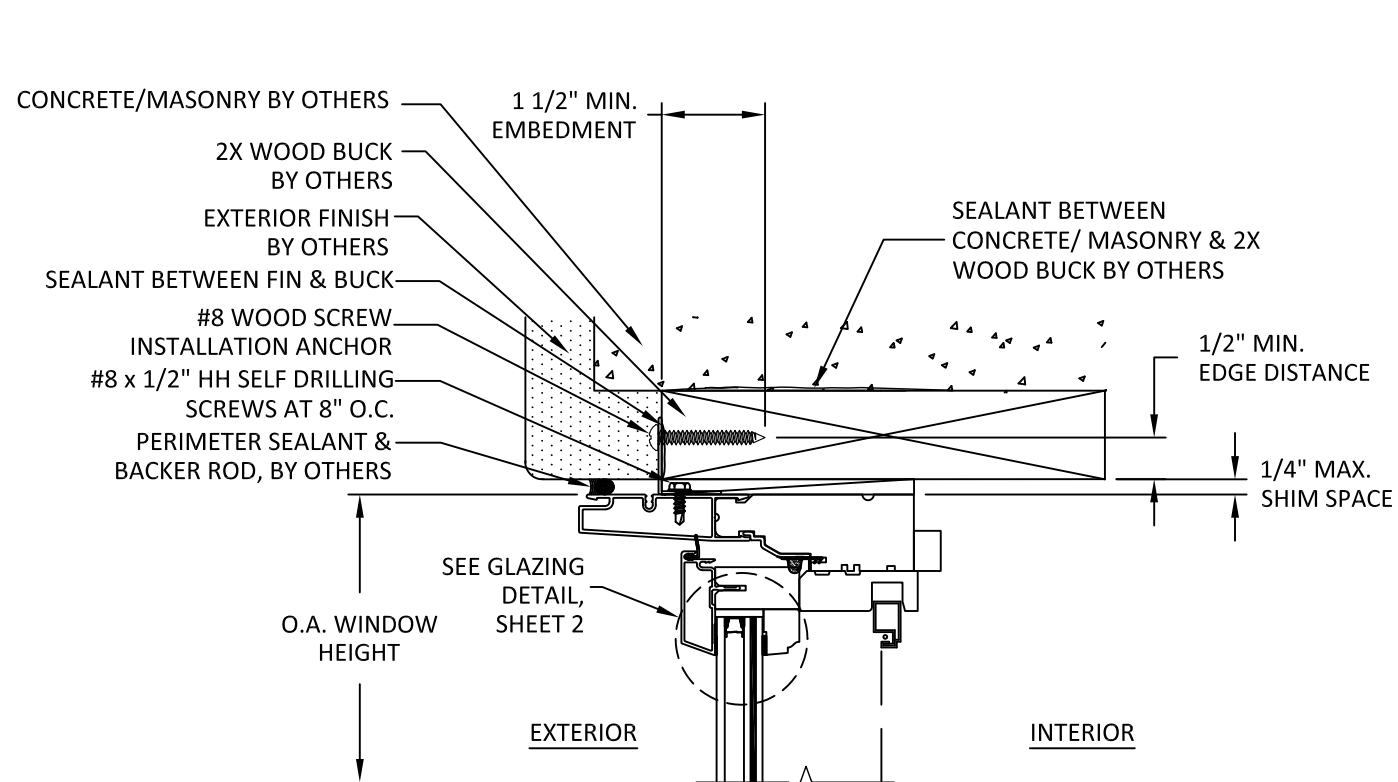
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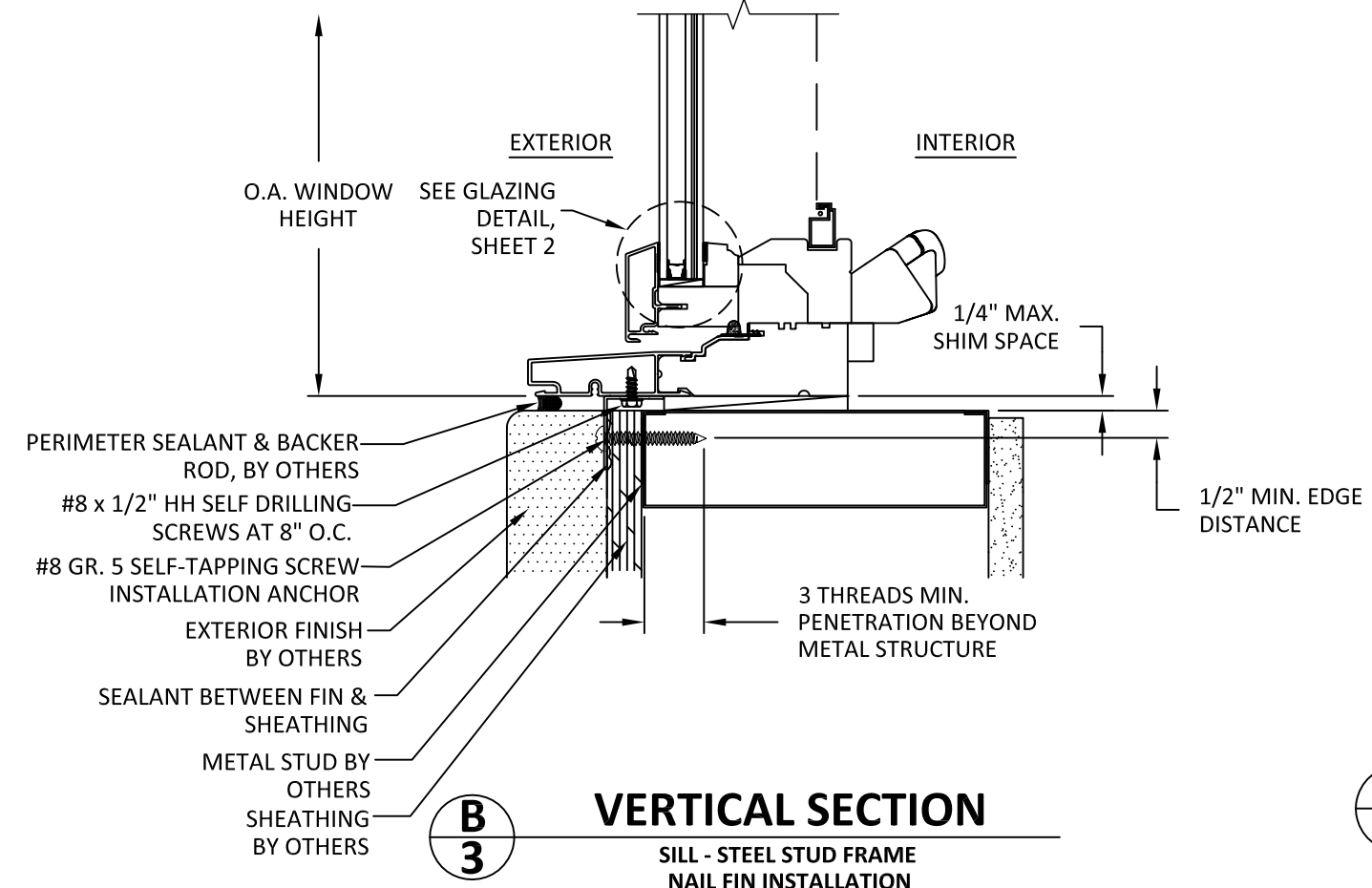
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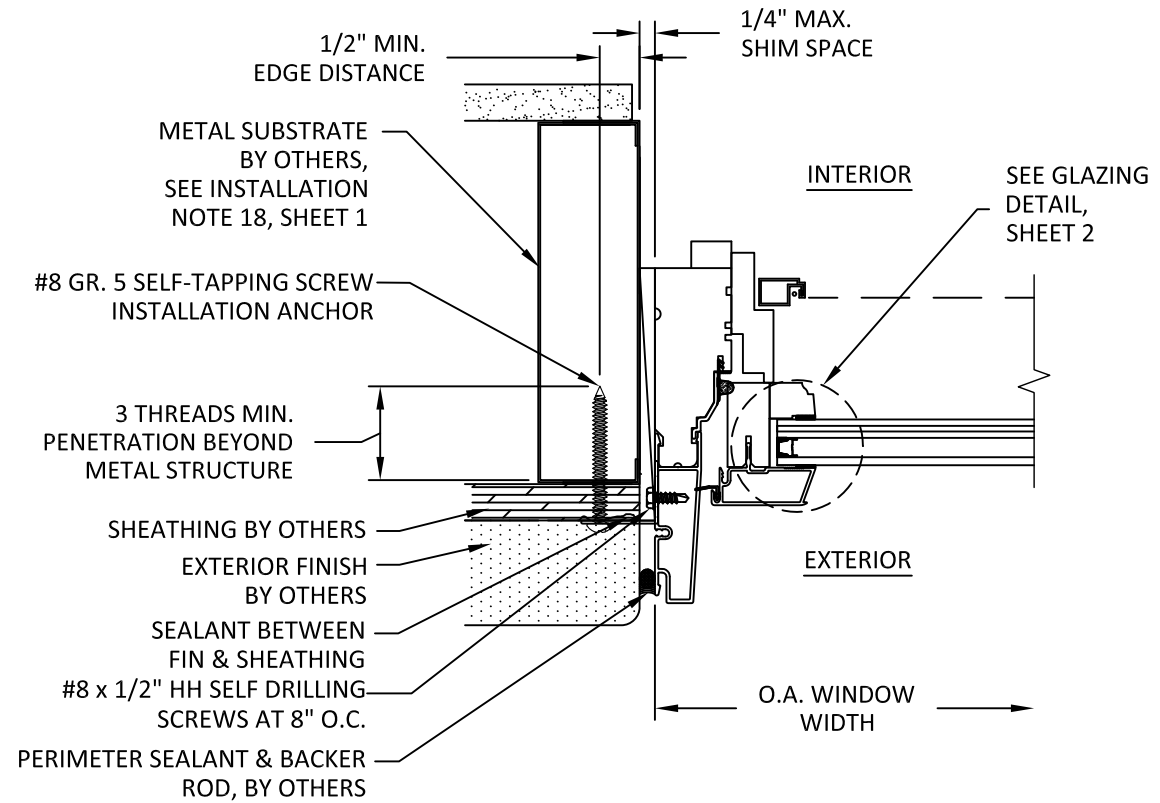
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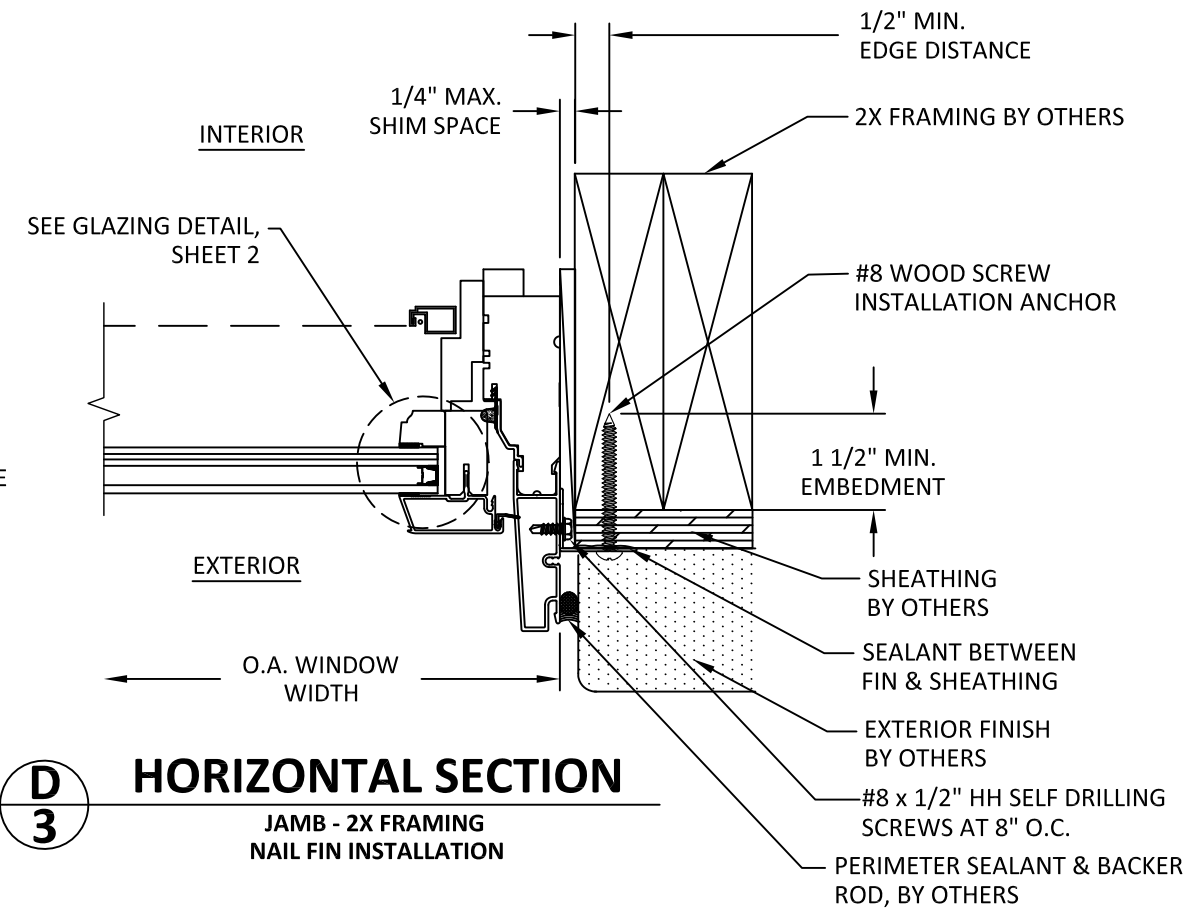
A
3 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
NAIL FIN INSTALLATION



B
3 **VERTICAL SECTION**
SILL - STEEL STUD FRAME
NAIL FIN INSTALLATION



C
3 **HORIZONTAL SECTION**
JAMB - METAL FRAME
NAIL FIN INSTALLATION



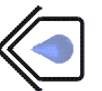
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3 **HORIZONTAL SECTION**
JAMB - 2X FRAMING
NAIL FIN INSTALLATION

TITLE: PINNACLE CLAD CASEMENT
(IMPACT)

THROUGH FRAME
INSTALLATION SECTIONS

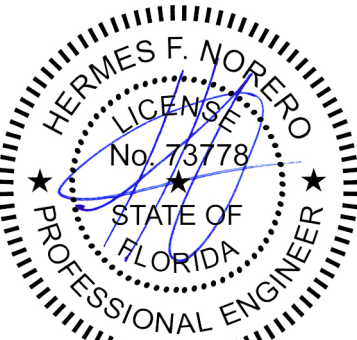
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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
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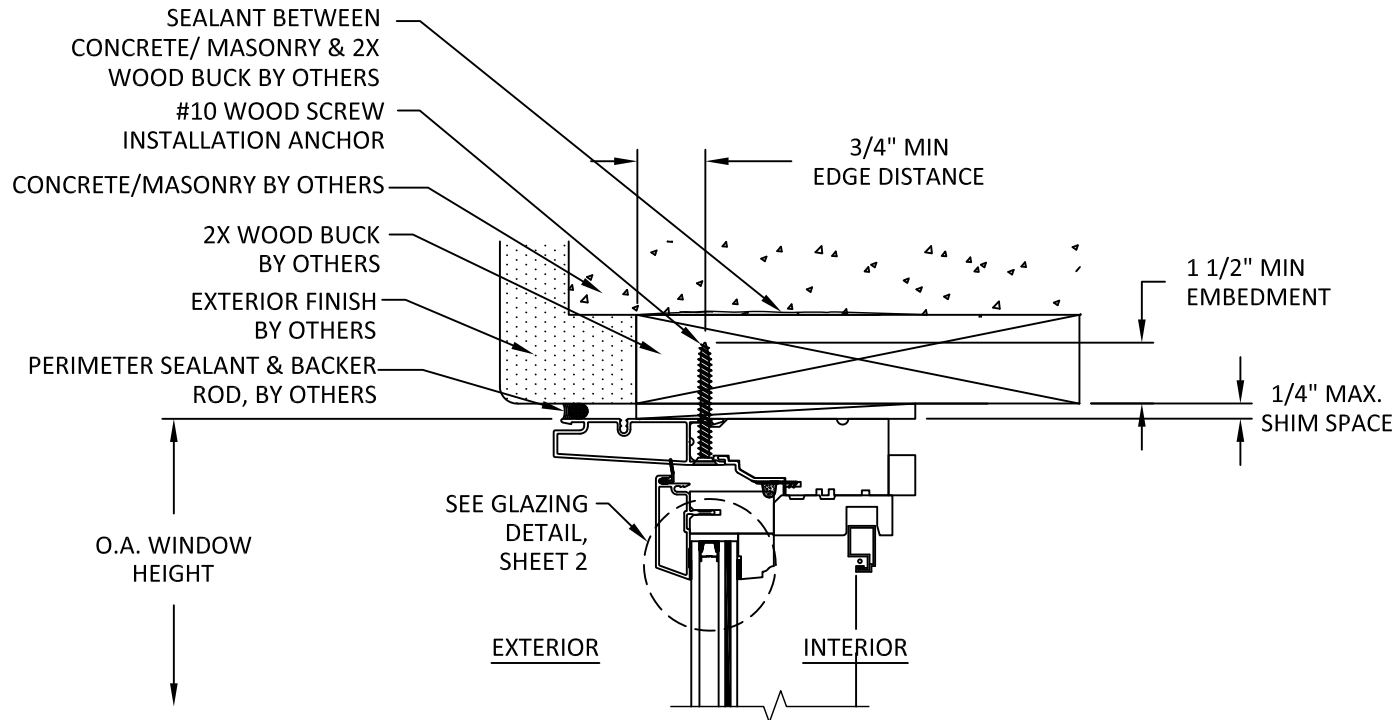
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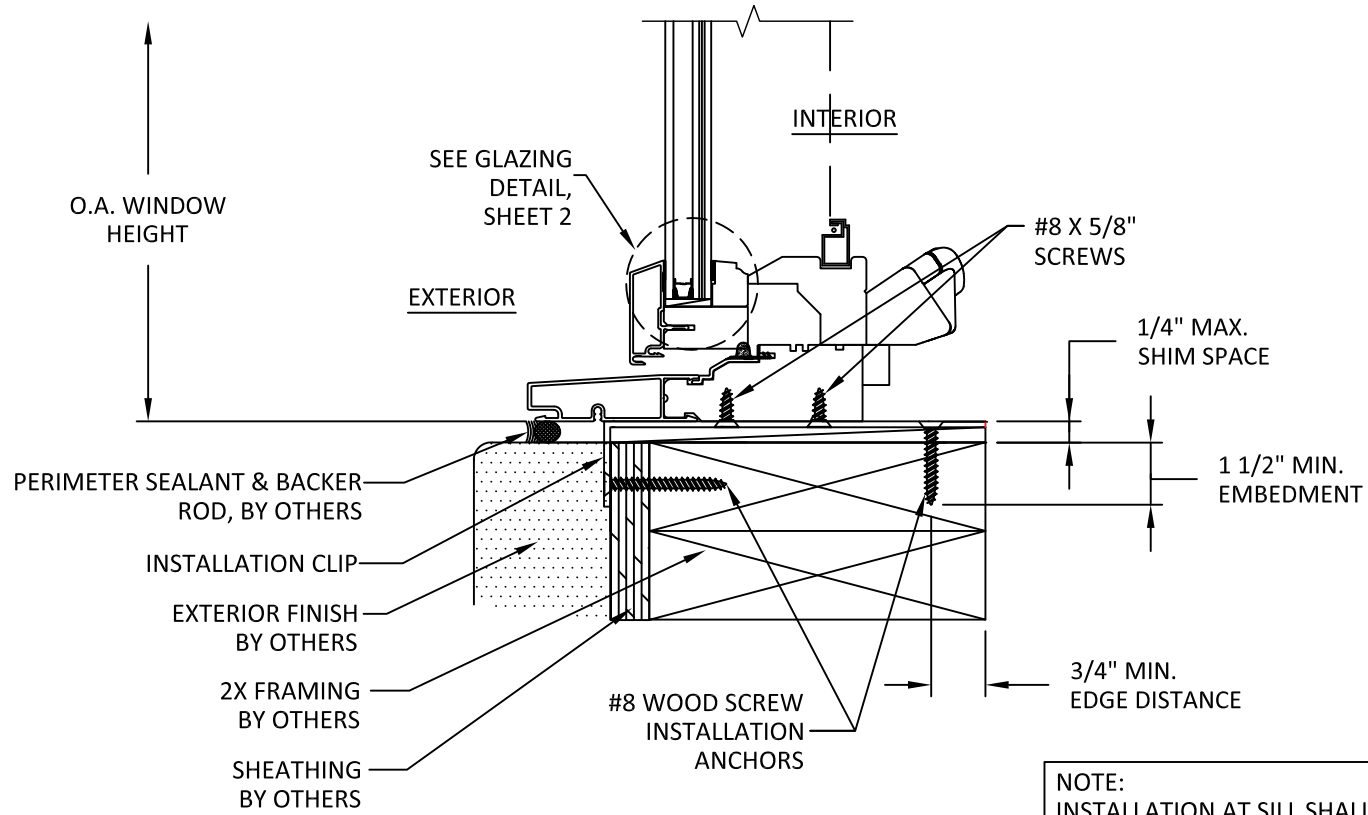
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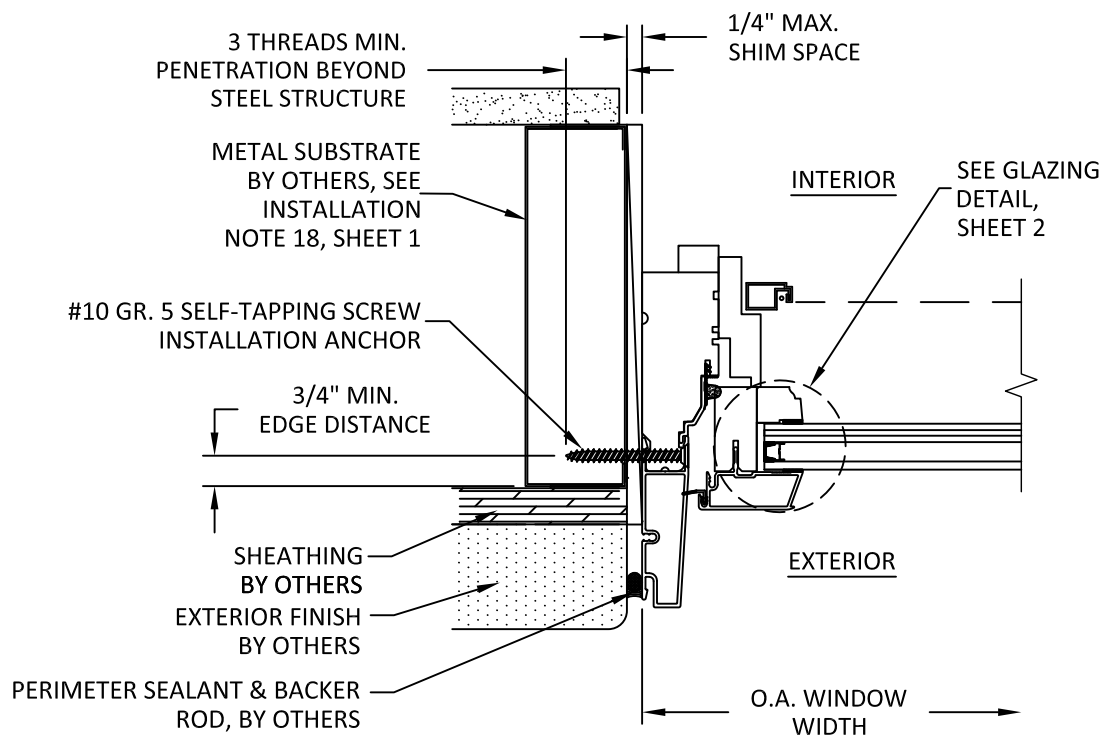


E
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
THROUGH FRAME INSTALLATION

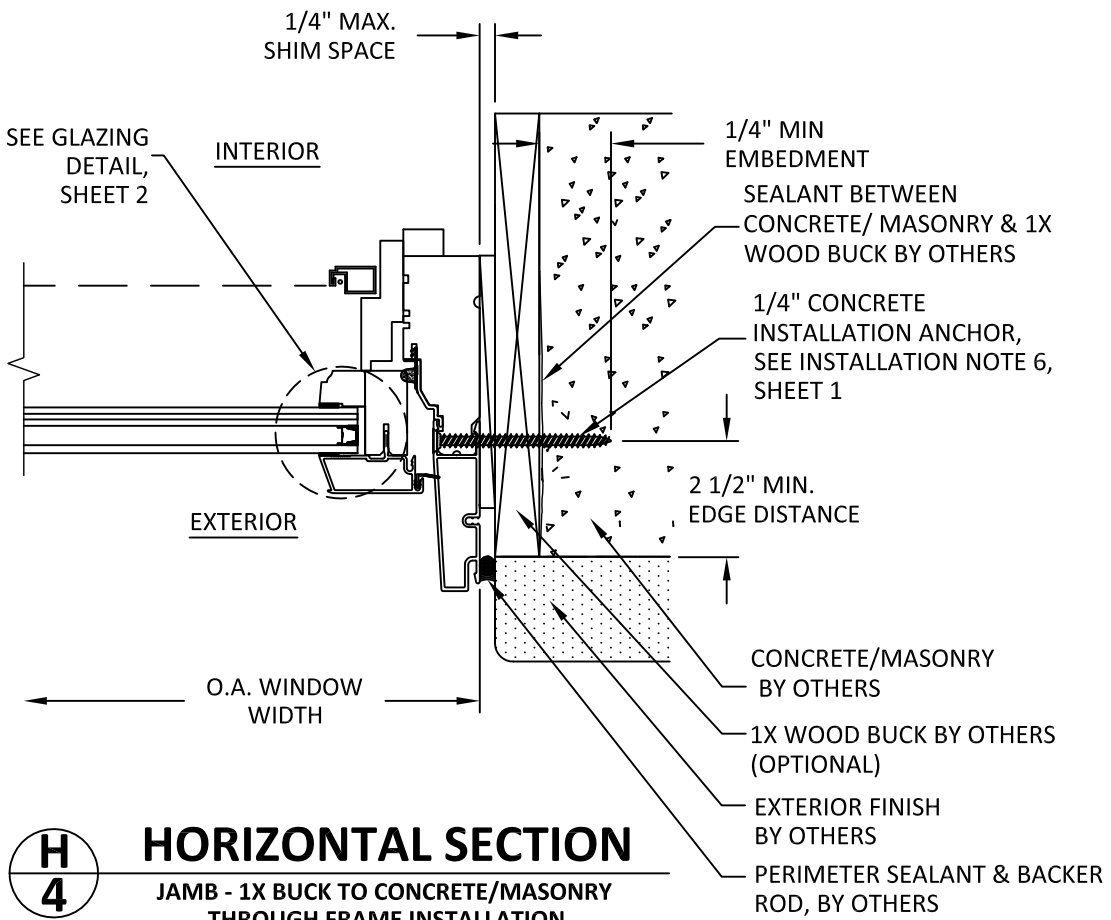


F
4 **VERTICAL SECTION**
SILL - 2X FRAMING
CLIP INSTALLATION

NOTE:
INSTALLATION AT SILL SHALL
USE ONLY USE CLIPS (STANDARD
OR ALTERNATE). THROUGH
FRAME INSTALLATION NOT
PERMITTED.



G
4 **HORIZONTAL SECTION**
JAMB - METAL STUD FRAME
THROUGH FRAME INSTALLATION



H
4 **HORIZONTAL SECTION**
JAMB - 1X BUCK TO CONCRETE/MASONRY
THROUGH FRAME INSTALLATION

TITLE: PINNACLE CLAD CASEMENT
(IMPACT)

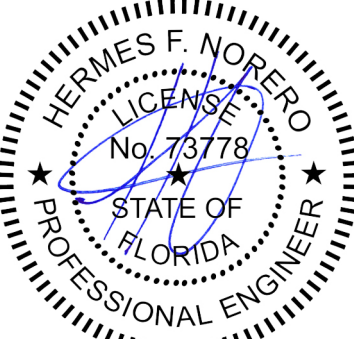
CLIP INSTALLATION SECTIONS

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398 E. DANIA BEACH BLVD., STE. 338
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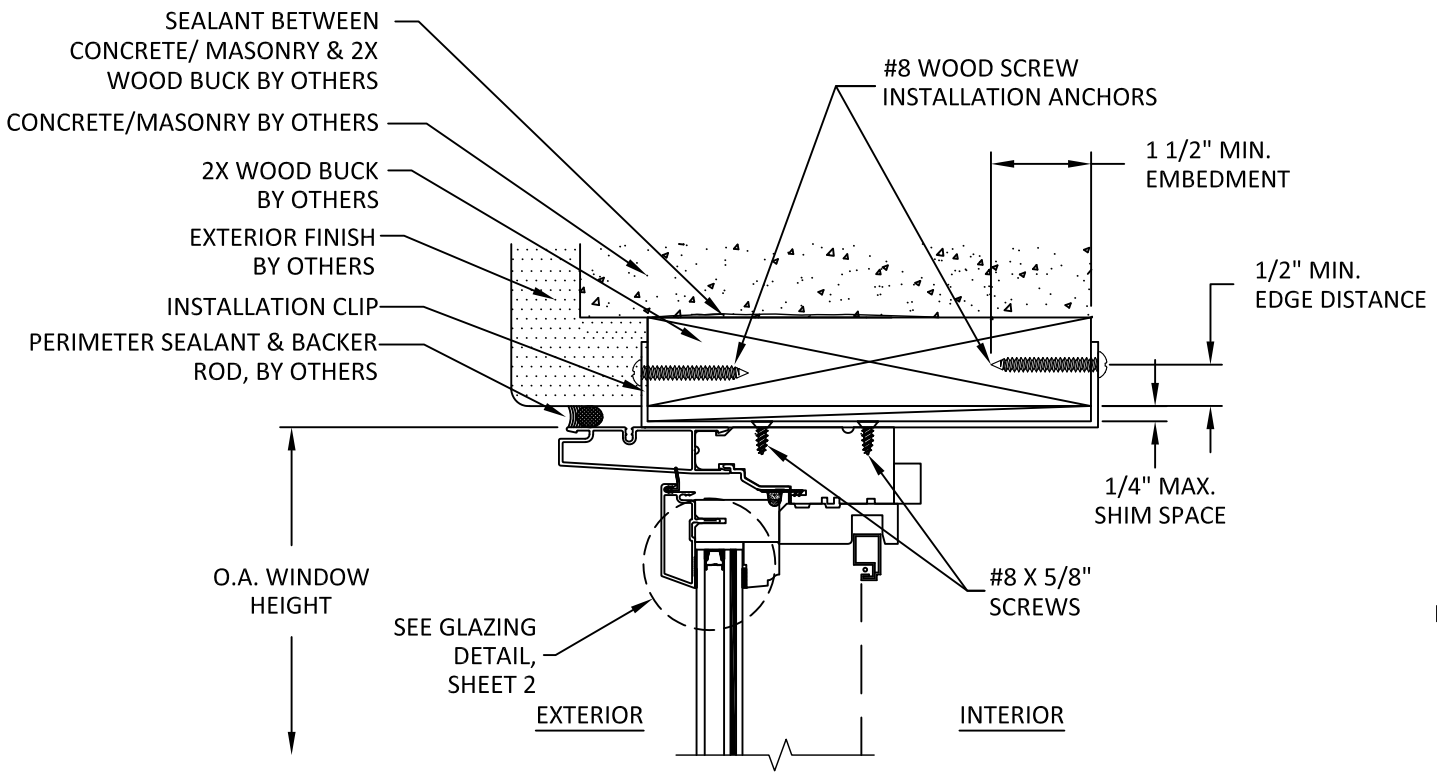
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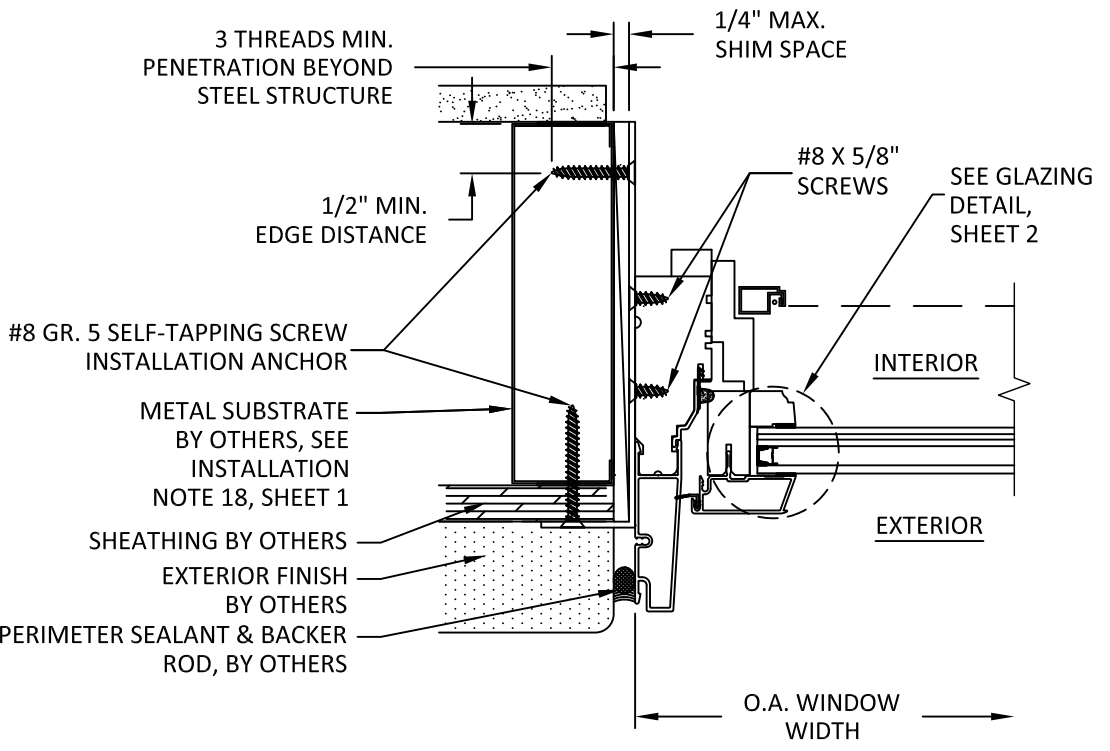
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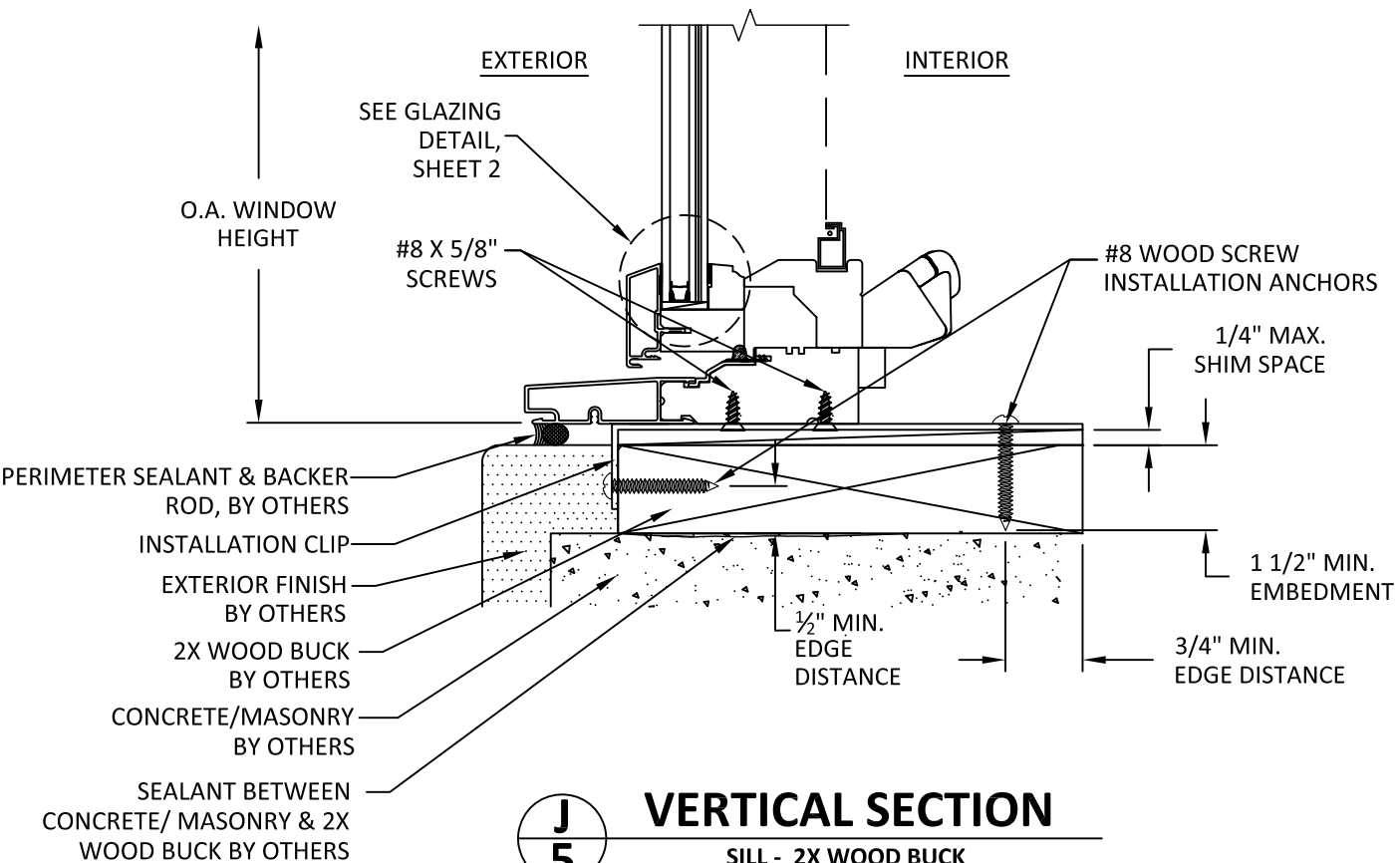
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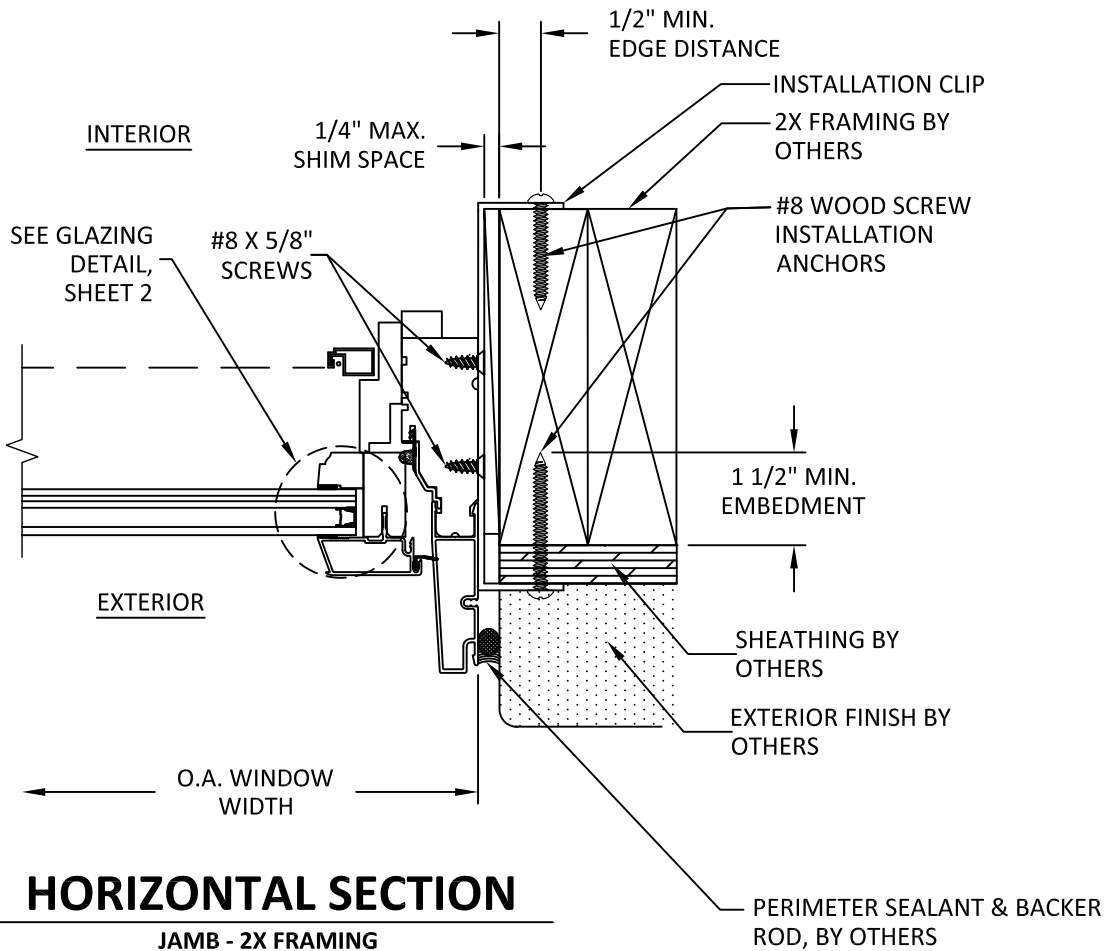
I
5 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
STANDARD CLIP INSTALLATION



K
5 **HORIZONTAL SECTION**
JAMB - METAL SUBSTRATE
ALTERNATE CLIP INSTALLATION



J
5 **VERTICAL SECTION**
SILL - 2X WOOD BUCK
ALTERNATE CLIP INSTALLATION



L
5 **HORIZONTAL SECTION**
JAMB - 2X FRAMING
STANDARD CLIP INSTALLATION