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SHWINCO ARCHITECTURAL PRODUCTS, LLC

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- 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.
- FOR FIN INSTALLATION INTO WOOD FRAMING USE 5d ROOFING NAIL FIN THROUGH FIN WITH SUFFICIENT LENGTH TO ACHIEVE 2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE OR #8 PAN HEAD WOOD SCREWS THROUGH FIN WITH SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR FIN INSTALLATION INTO METAL SUBSTRATE, USE #8 TEK SCREW OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 3 THREADS PENETRATION BEYOND METAL WALL.
- FOR FLANGE AND CLIP INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREW INSTALLATION THROUGH CLIP WITH SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR FLANGE AND CLIP INSTALLATION INTO METAL SUBSTRATE, USE #10 TEK SCREW OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 3 THREADS PENETRATION BEYOND METAL WALL.
- FOR FLANGE AND CLIP INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND 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.
- 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.

- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - 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.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 47.8 MILS. (18 GAUGE)
 - ALUMINUM - ALLOY SHALL BE 6063-T5 OR EQUIVALENT. MINIMUM (0.090") WALL THICKNESS

GENERAL NOTES:

- 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/A440-17
 - ASTM E 1886-19
 - ASTM E 1996-20
- 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.
- 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4 OR LESS.
- WINDOW FRAME MATERIAL: VINYL (PVC)
- GLASS MEETS ASTM E 1300 GLASS CHART REQUIREMENTS. SEE SHEET 1 FOR GLAZING DETAIL.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL

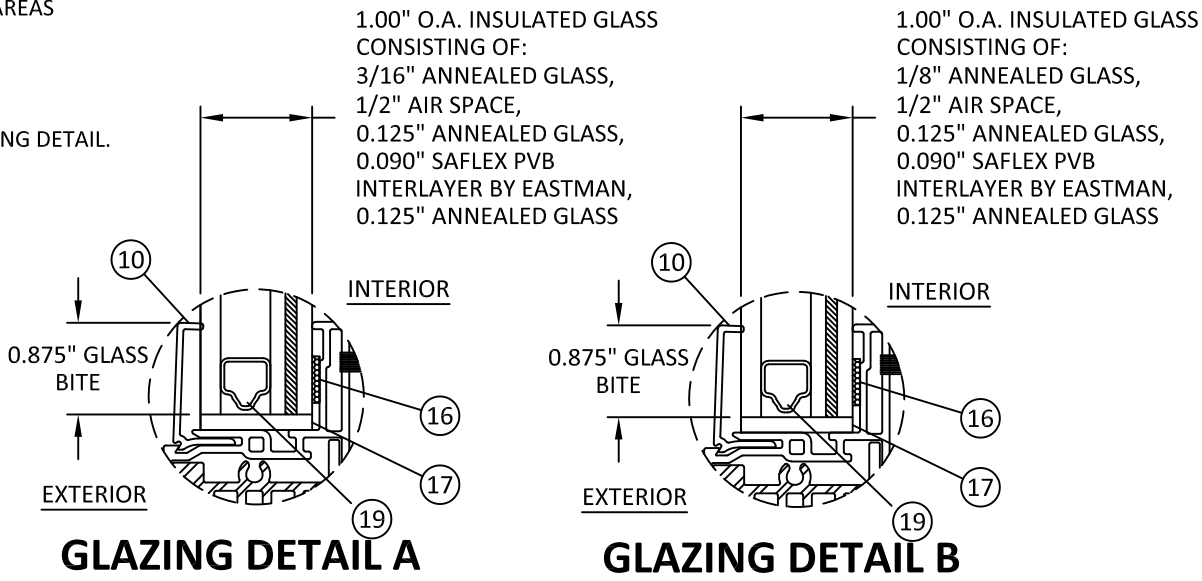
NOTE:

- ALL GLAZING MEETS SAFETY GLAZING REQUIREMENTS AS PER CH 24 OF THE FBC.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
- TEMPERED GLASS ON SACRIFICIAL LITE SHALL BE USED ON APPLICATIONS 30 FEET ABOVE GROUND.

SERIES 9000 SINGLE HUNG WINDOW (NON-HVHZ)(IMPACT)

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SHEET	SHEET DESCRIPTION
1	INSTALLATION, GENERAL NOTES & GLAZING DETAIL
2	ELEVATION & ANCHOR LAYOUT
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4	VERTICAL & HORIZONTAL SECTIONS - NAIL FIN
5	VERTICAL & HORIZONTAL SECTIONS - CLIP
6	VERTICAL & HORIZONTAL SECTIONS - THROUGH FRAME
7	COMPONENTS & BILL OF MATERIALS

DESIGN PRESSURE RATINGS					
SIZE	DESIGN PRESSURE	GLAZING	MISSILE IMPACT RATING	SILL RISER	JAMB CAP
53" X 74"	+70/-110 PSF	A	WIND ZONE 4 MISSILE LEVEL D	1.5"	W/
53" x 74"	+100/-100 PSF	A		2.31"	W/
53" X 96"	+60/-70 PSF	B		1.5"	W/
53" X 96"	+50/-50 PSF	A		1.5"	W/
53" X 96"	+60/-60 PSF	B		1.5"	W/O
53" X 74"	+70/-70 PSF	A		1.5"	W/O
53" X 74"	+80/-80 PSF	A		2.31"	W/O



171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE: SERIES 9000 SINGLE HUNG WINDOW

(NON-HVHZ)(IMPACT)
INSTALLATION, GENERAL
NOTES & GLAZING DETAIL

PREPARED BY:

BUILDING DROPS, INC.

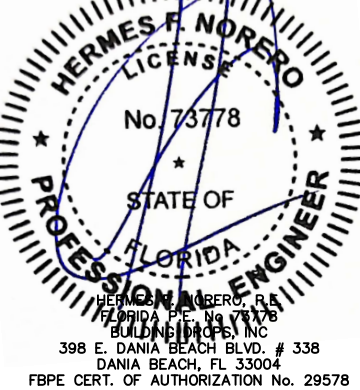
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
NEW TESTING	LL	3/21
REVISION TO REINF.	LL	7/21
2023 FBC UPDATE	MS	10/11/23

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.11.29 20:11:45 -05'00'



FL #:

FL8153

DATE: 09.26.2020

DWG. BY:
NUS

CHK. BY:
HFN

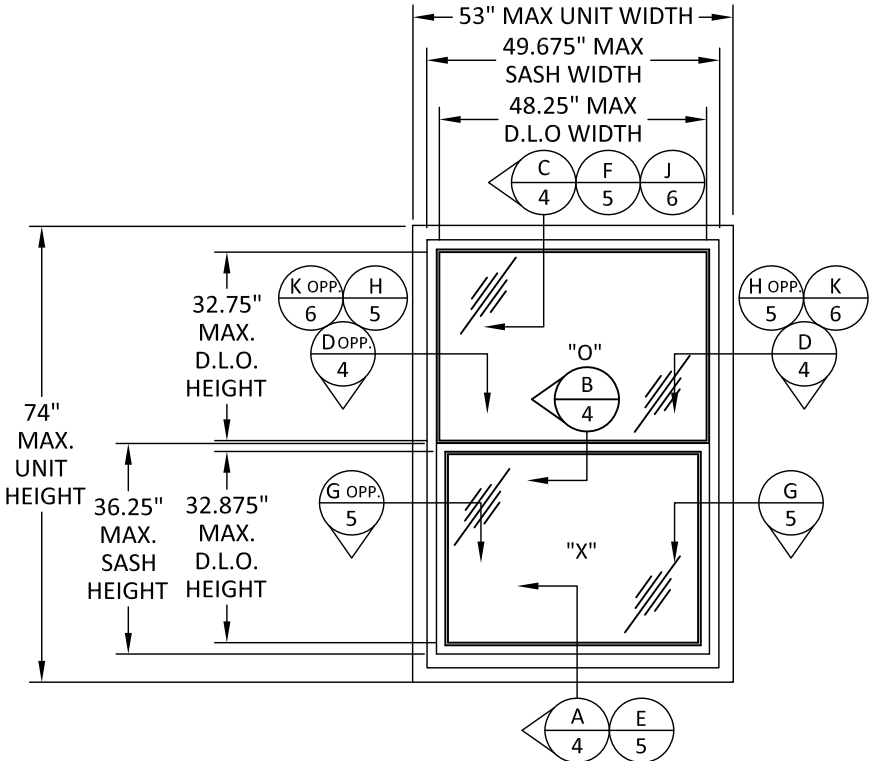
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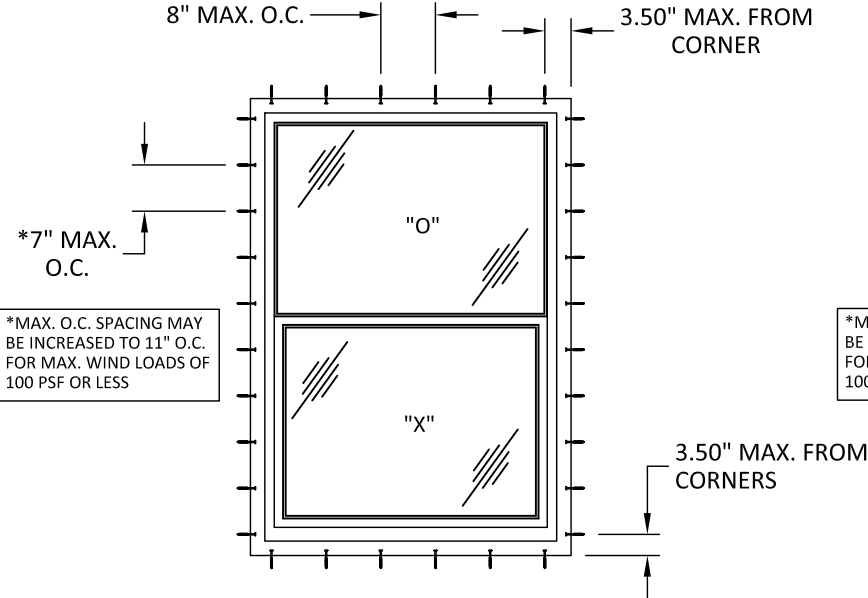
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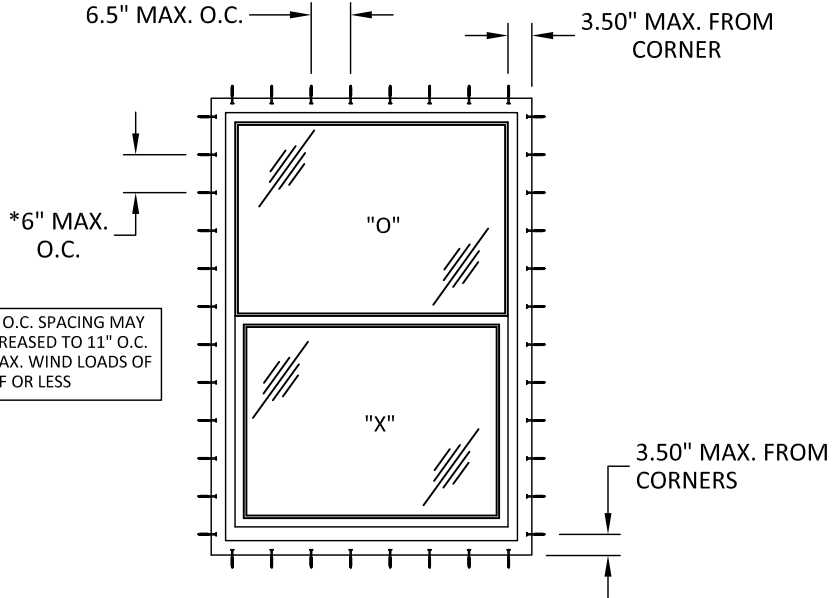
ELEVATION

+70/-110 PSF, +70/-70 PSF +80/-80 PSF OR
+100/-100 PSF



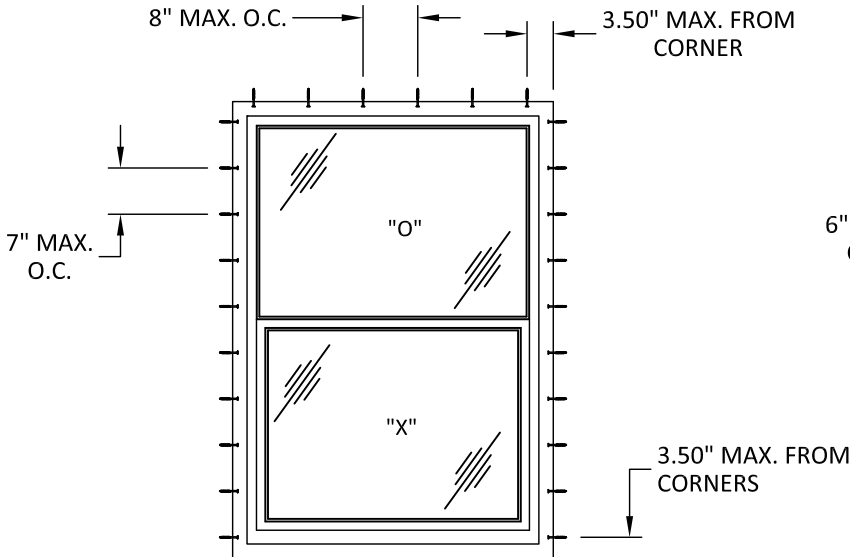
ANCHOR LAYOUT

CLIP OR FLANGE/THROUGH FRAME
+70/-110 PSF OR +100/-100 PSF
WOOD AND METAL SUBSTRATES



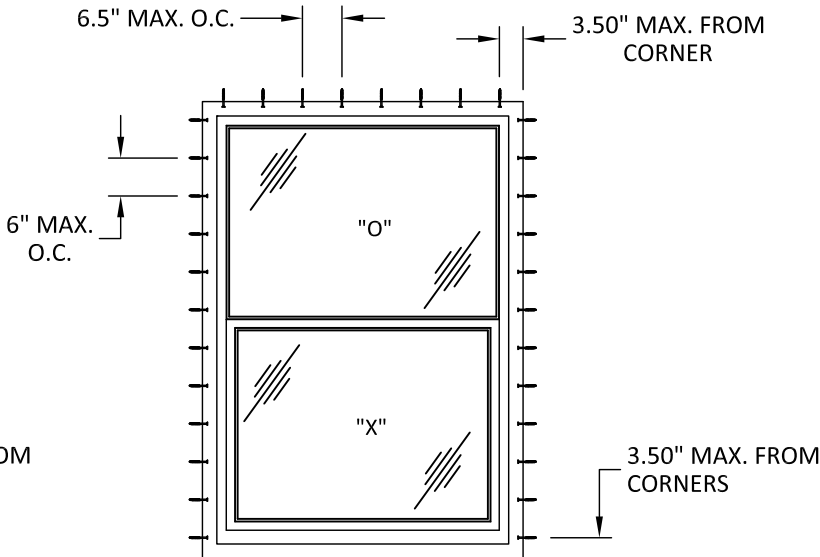
ANCHOR LAYOUT

CLIP OR FLANGE/THROUGH FRAME
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CONCRETE AND MASONRY SUBSTRATES



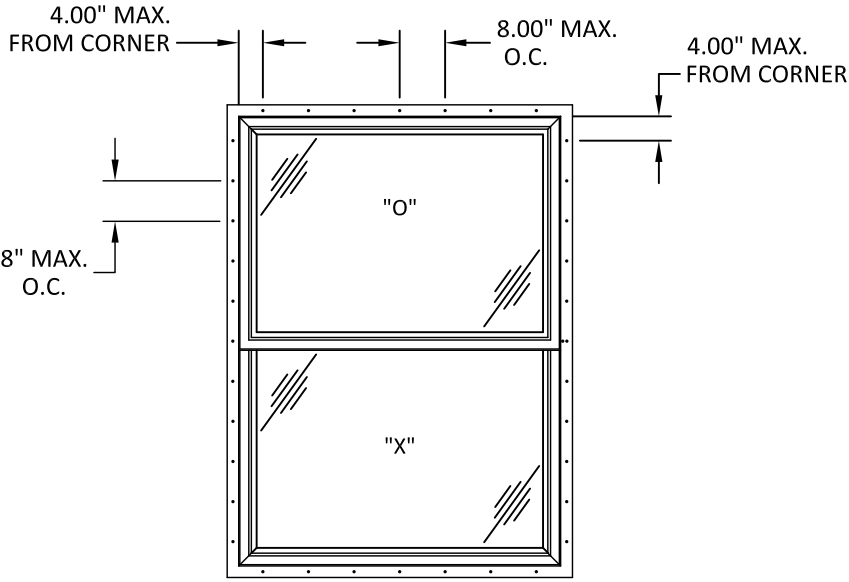
ANCHOR LAYOUT

CLIP OR FLANGE/THROUGH FRAME
+70/-70 PSF OR +80/-80 PSF
WOOD AND METAL SUBSTRATES



ANCHOR LAYOUT

CLIP OR FLANGE/THROUGH FRAME
+70/-70 PSF OR +80/-80 PSF
CONCRETE AND MASONRY SUBSTRATES



ANCHOR LAYOUT

NAIL FIN
+70/-110 PSF, +70/-70 PSF, +80/-80 PSF OR +100/-100 PSF
WOOD AND METAL SUBSTRATES



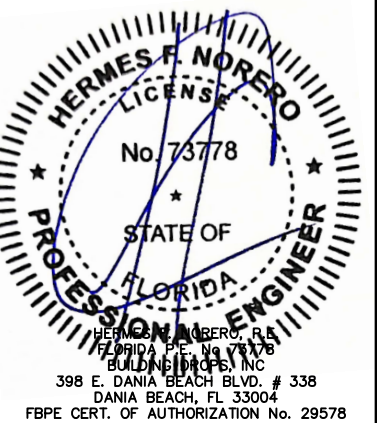
171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE: SERIES 9000 SINGLE HUNG WINDOW (NON-HVHZ)(IMPACT)
ELEVATION & ANCHOR LAYOUT

PREPARED BY:
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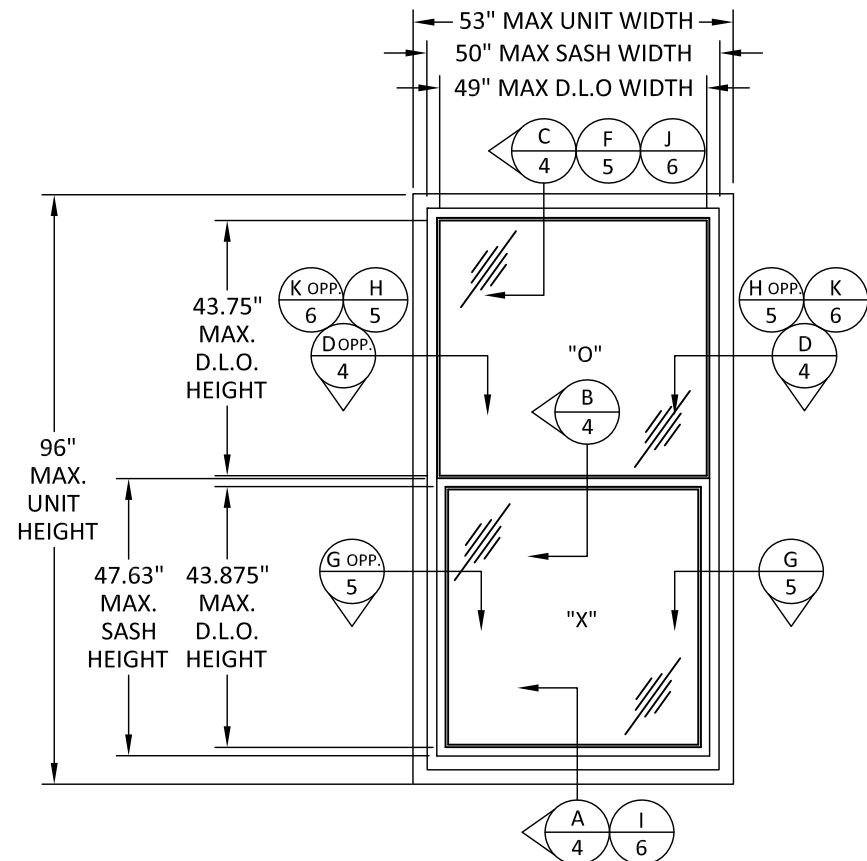
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SHEET	2

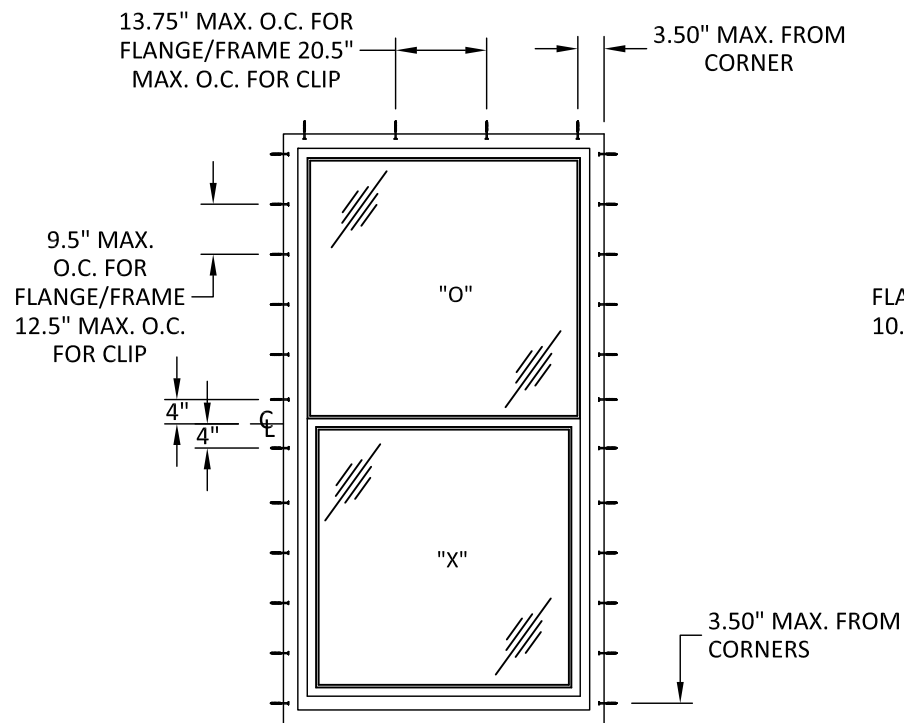
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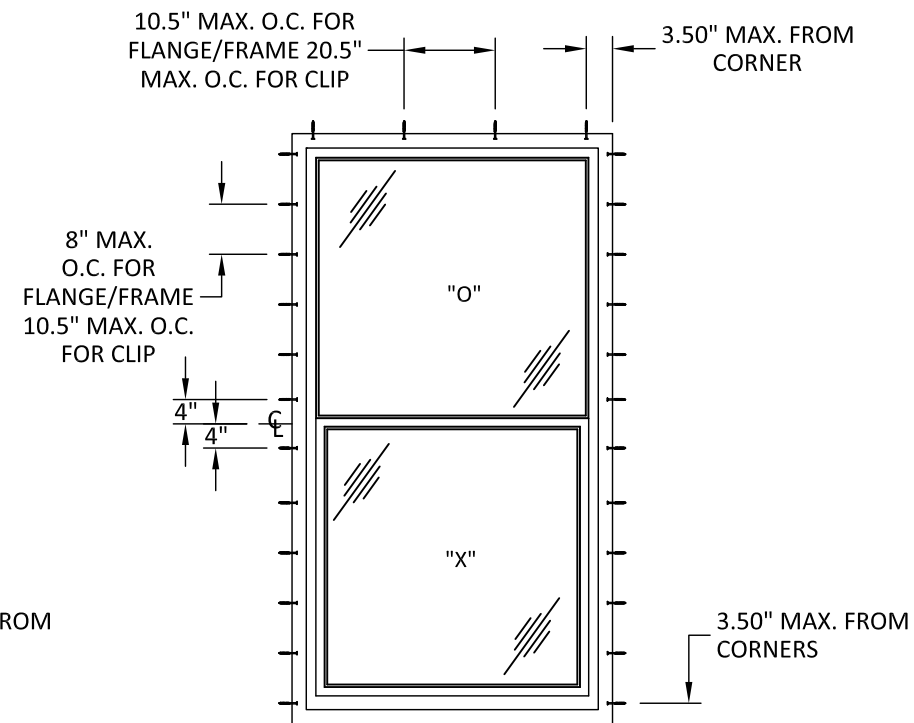
ELEVATION

+50/-50 PSF, +60/-60 PSF OR +60/-70 PSF



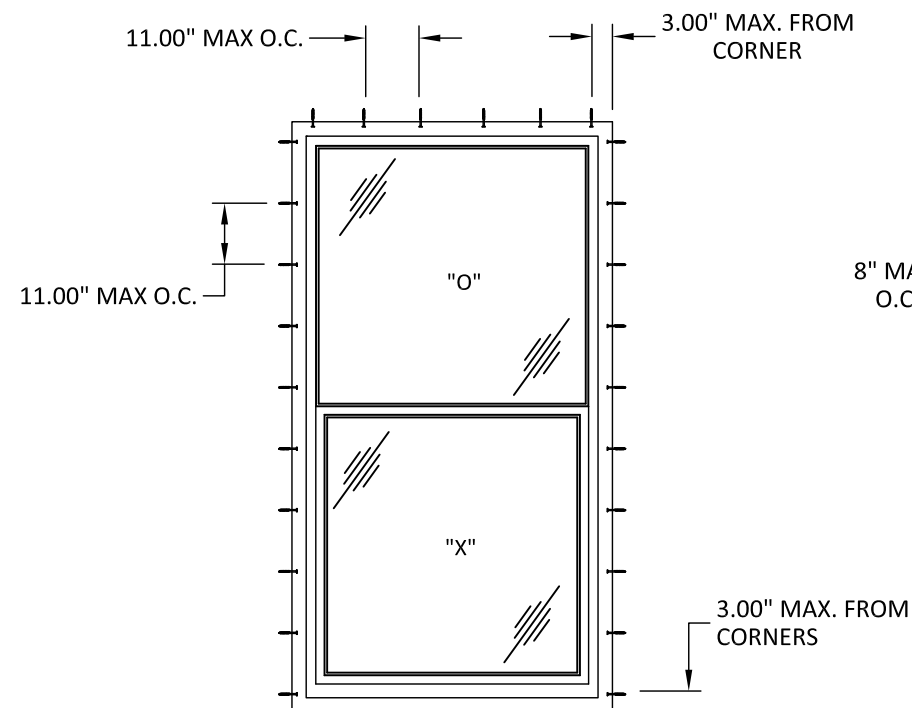
ANCHOR LAYOUT

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+50/-50 PSF OR +60/-70 PSF
WOOD AND METAL SUBSTRATES



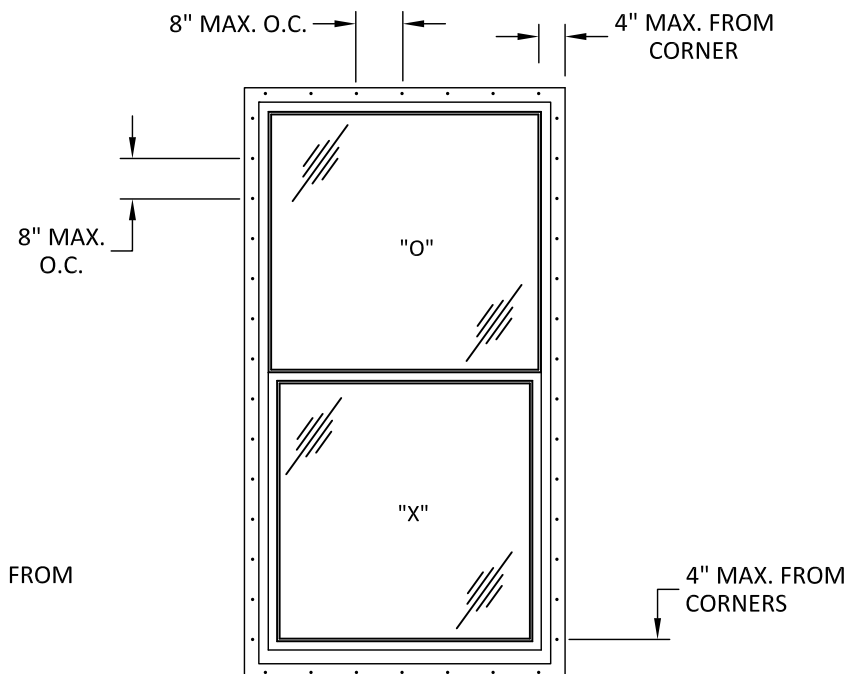
ANCHOR LAYOUT

CLIP OR FLANGE/THROUGH FRAME
+50/-50 PSF OR +60/-70 PSF
CONCRETE AND MASONRY SUBSTRATES



ANCHOR LAYOUT

CLIP OR FLANGE/THROUGH FRAME
+60/-60 PSF
WOOD, CONCRETE, MASONRY AND METAL SUBSTRATES



ANCHOR LAYOUT

NAIL FIN
+50/-50 PSF OR +60/-60 PSF
WOOD AND METAL SUBSTRATES



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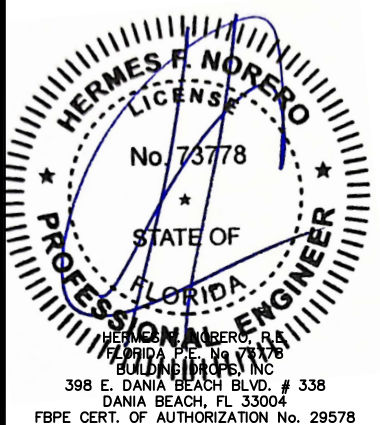
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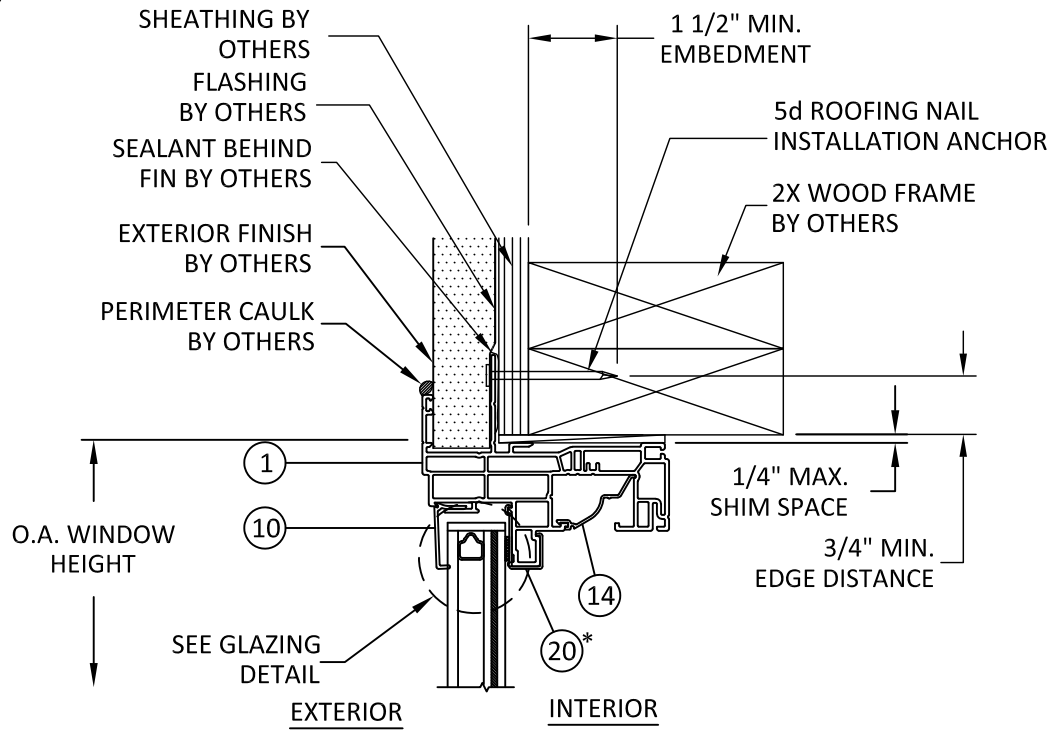


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SHEET	

3

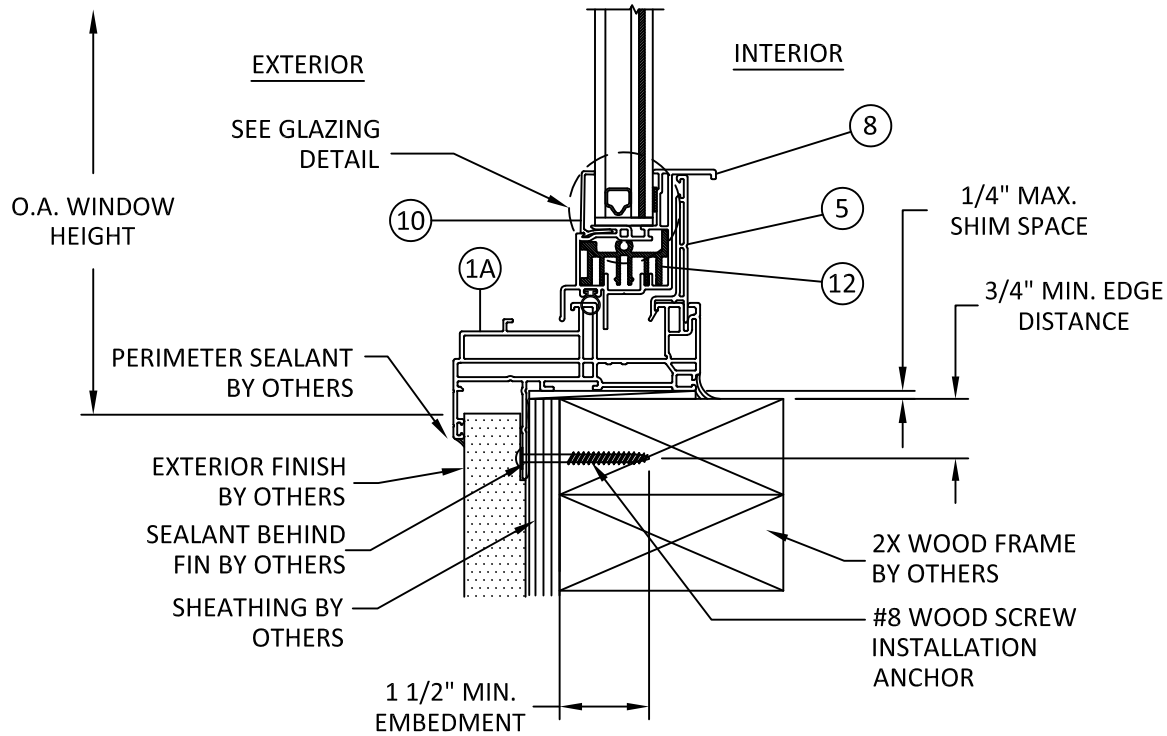
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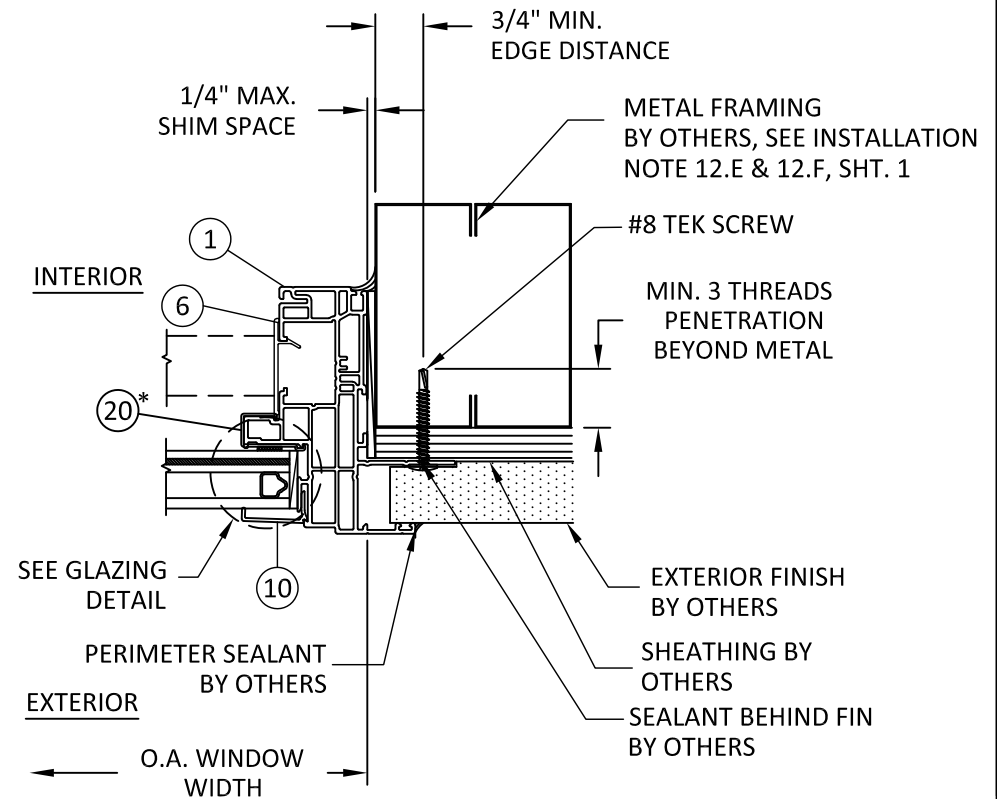


*NOTE: SEE SHEET 1 FOR JAMB CAP APPLICATION.

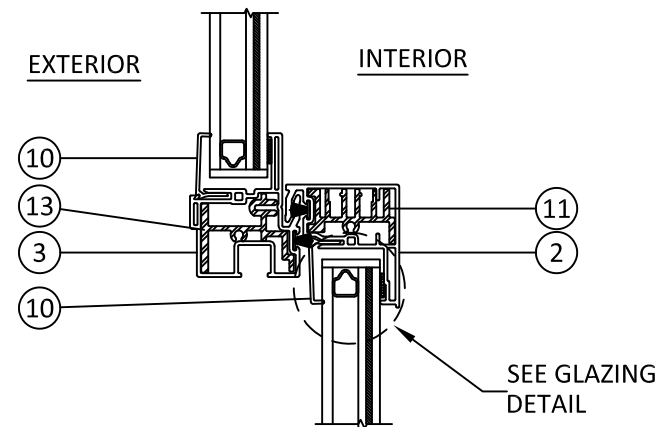
C
4 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME
J-CHANNEL/NAIL FIN



A
4 **VERTICAL SECTION**
SILL - 2X WOOD FRAME
J-CHANNEL/NAIL FIN



D
4 **HORIZONTAL SECTION**
JAMB - METAL STUDS
J-CHANNEL/NAIL FIN



B
3 **VERTICAL SECTION**
MEETING RAIL



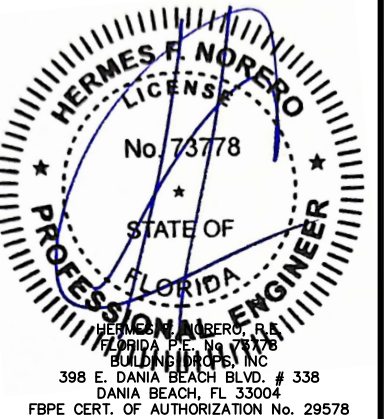
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VERTICAL & HORIZONTAL SECTIONS
NAIL FIN

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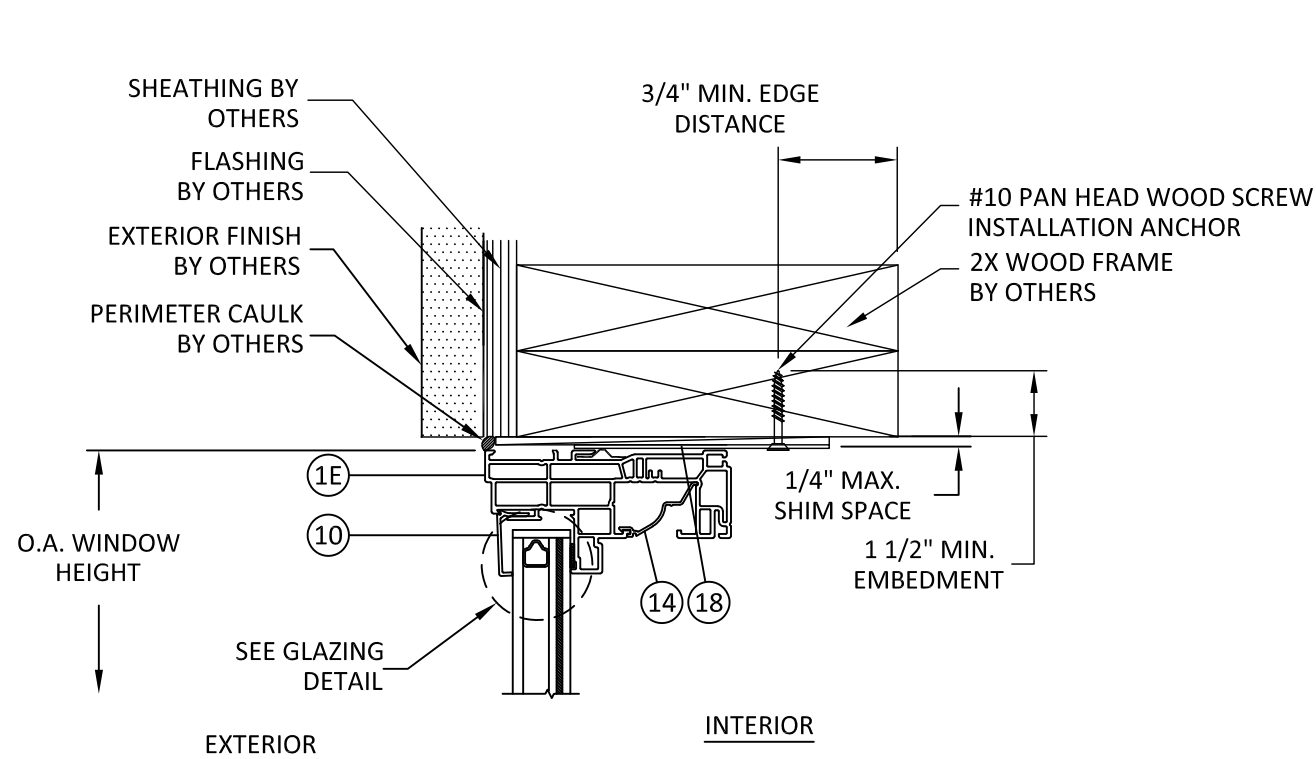
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DWG. #: **SWD054**

SHEET
4

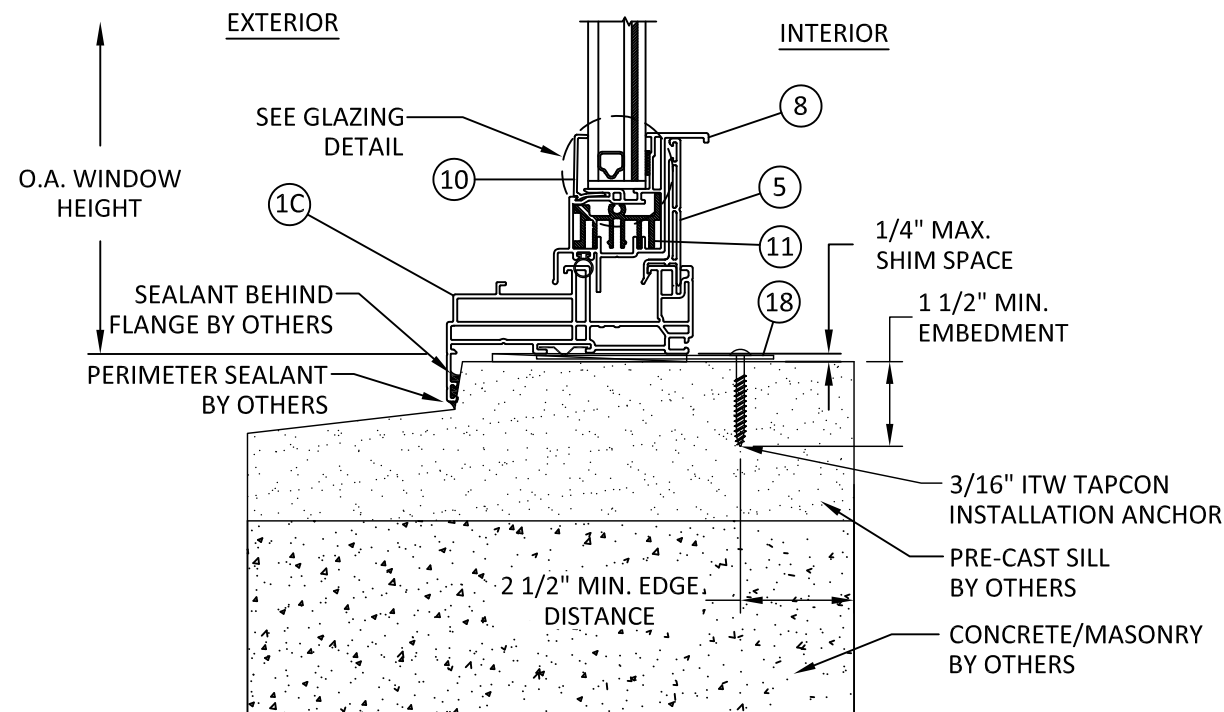
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F
5

VERTICAL SECTION

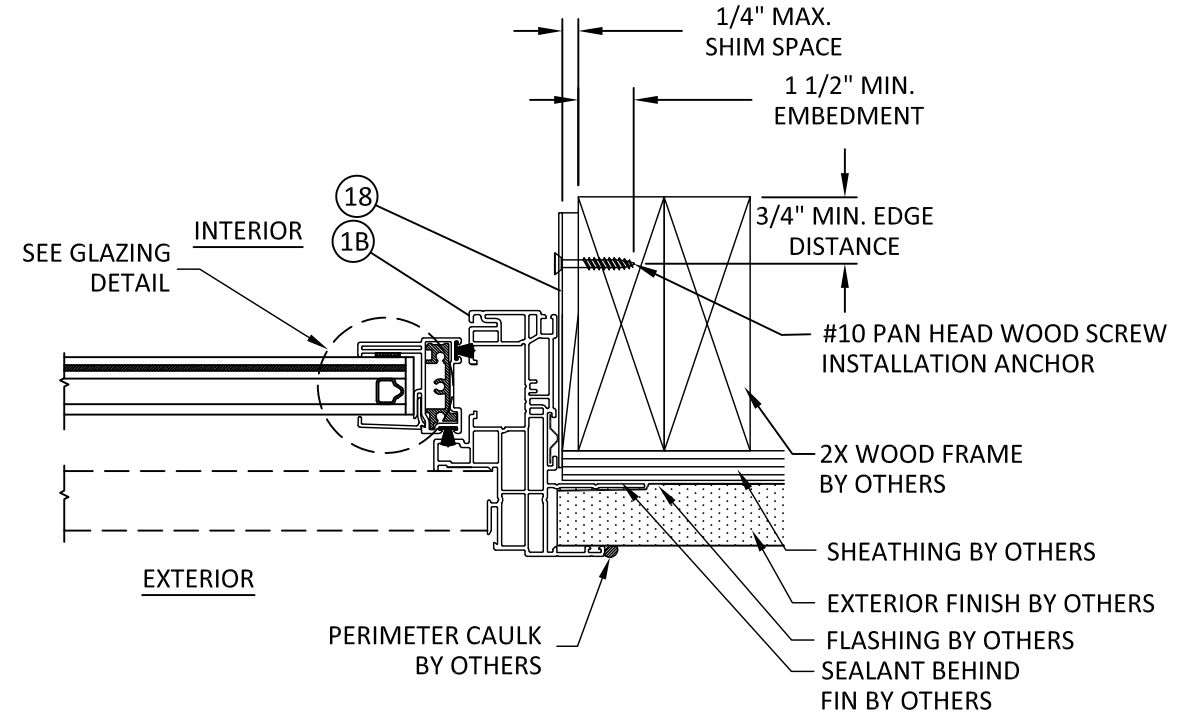
HEAD - 2X WOOD BUCK
REPLACEMENT/INSTALLATION CLIP



E
5

VERTICAL SECTION

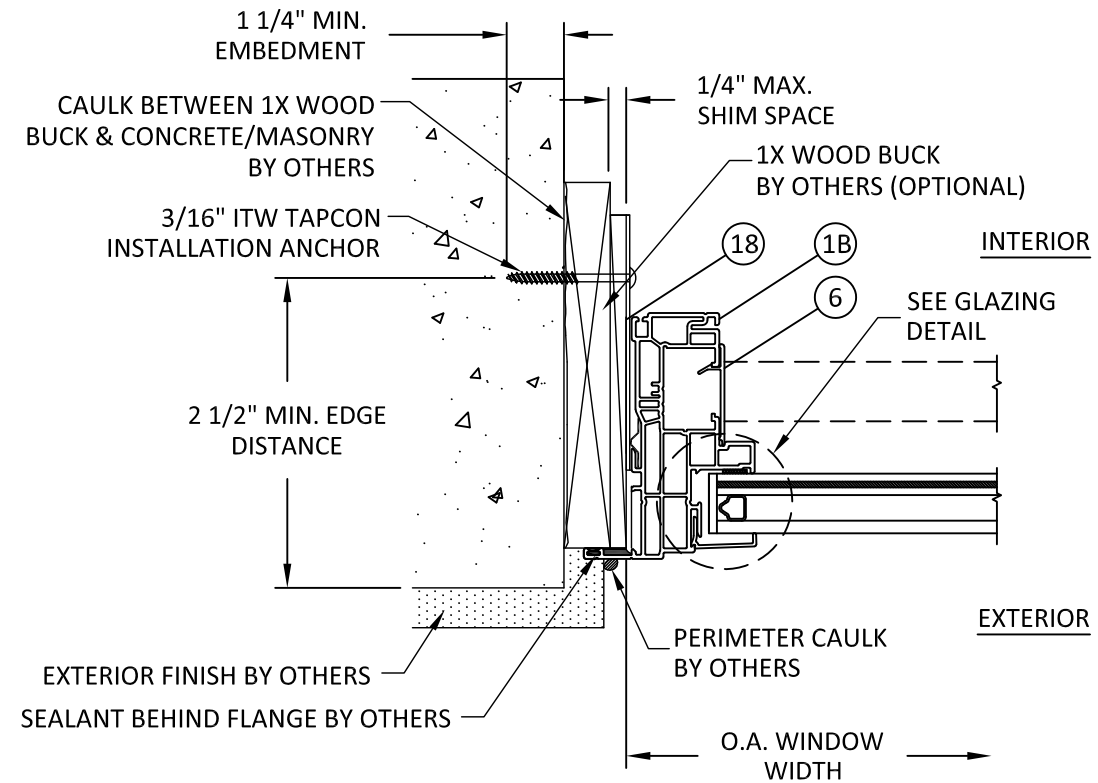
SILL - PRE-CAST SILL
FLANGE/INSTALLATION CLIP



G
5

HORIZONTAL SECTION

JAMB - 2X WOOD FRAME
J-CHANNEL/INSTALLATION CLIP



H
5

HORIZONTAL SECTION

JAMB - CONCRETE/MASONRY
FLANGE/INSTALLATION CLIP



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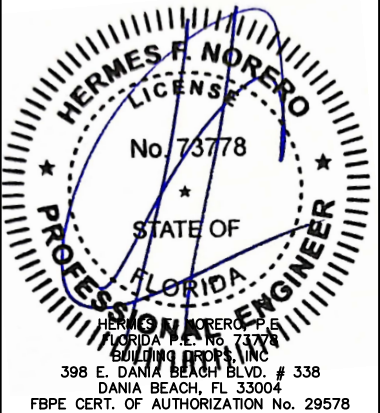
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VERTICAL & HORIZONTAL SECTIONS
CLIP

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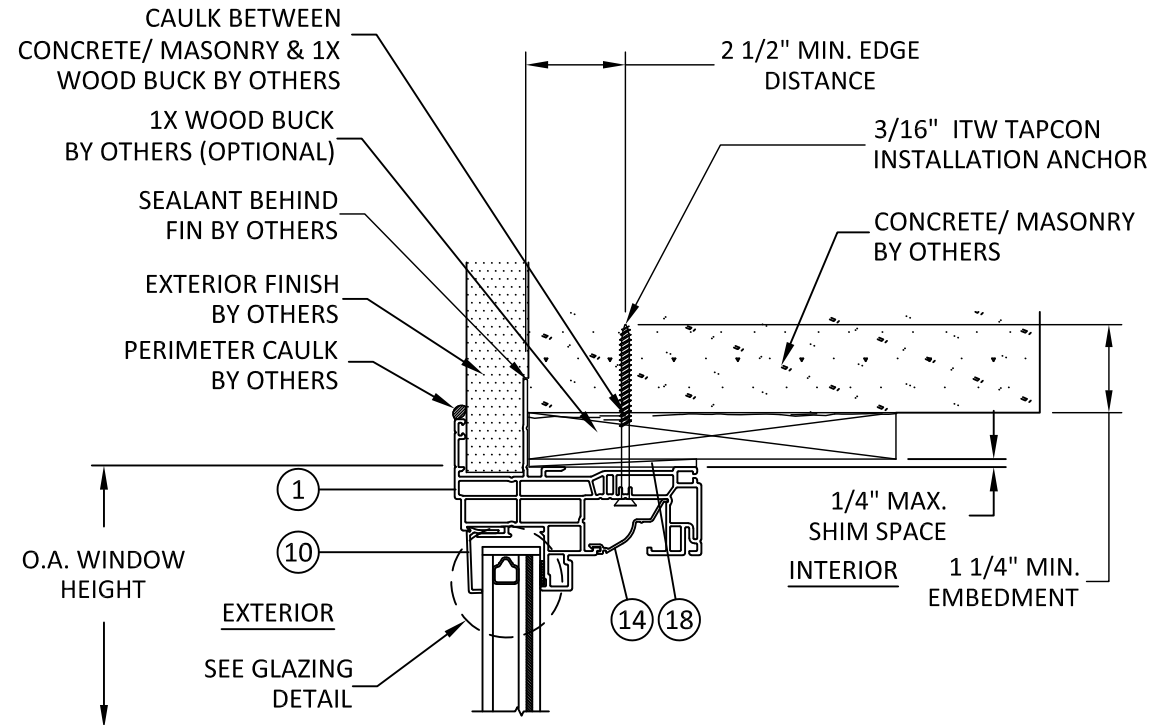
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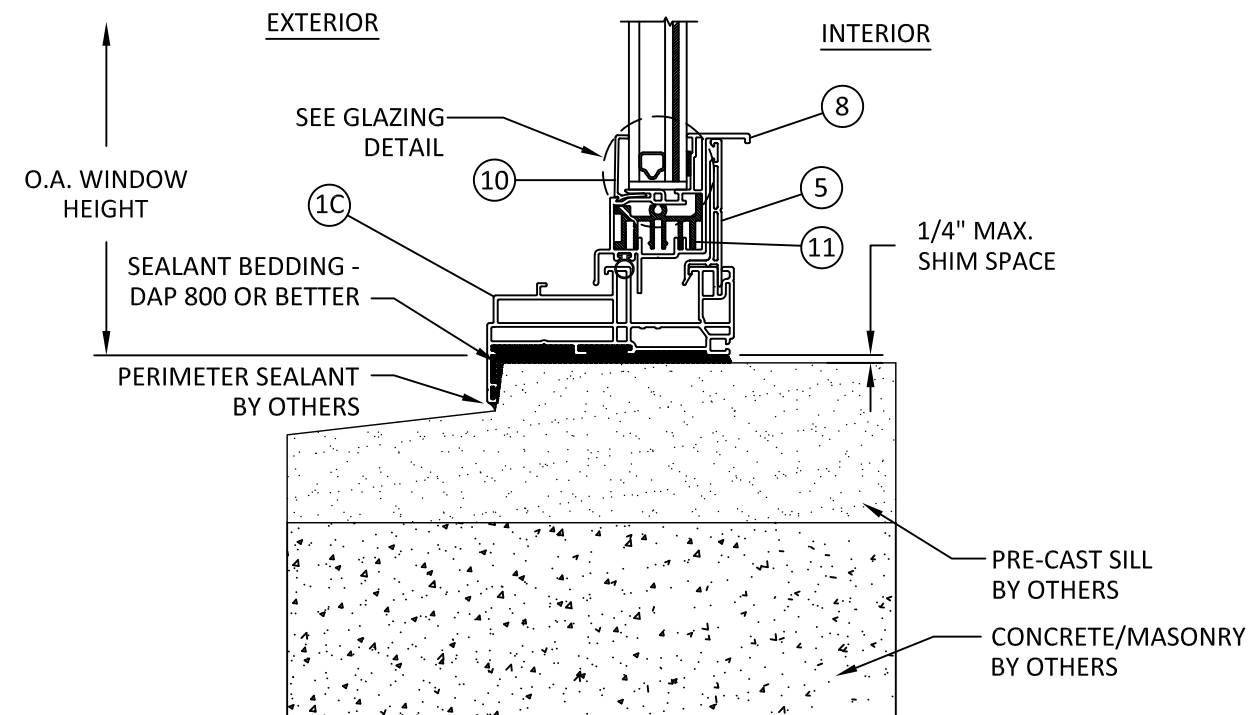
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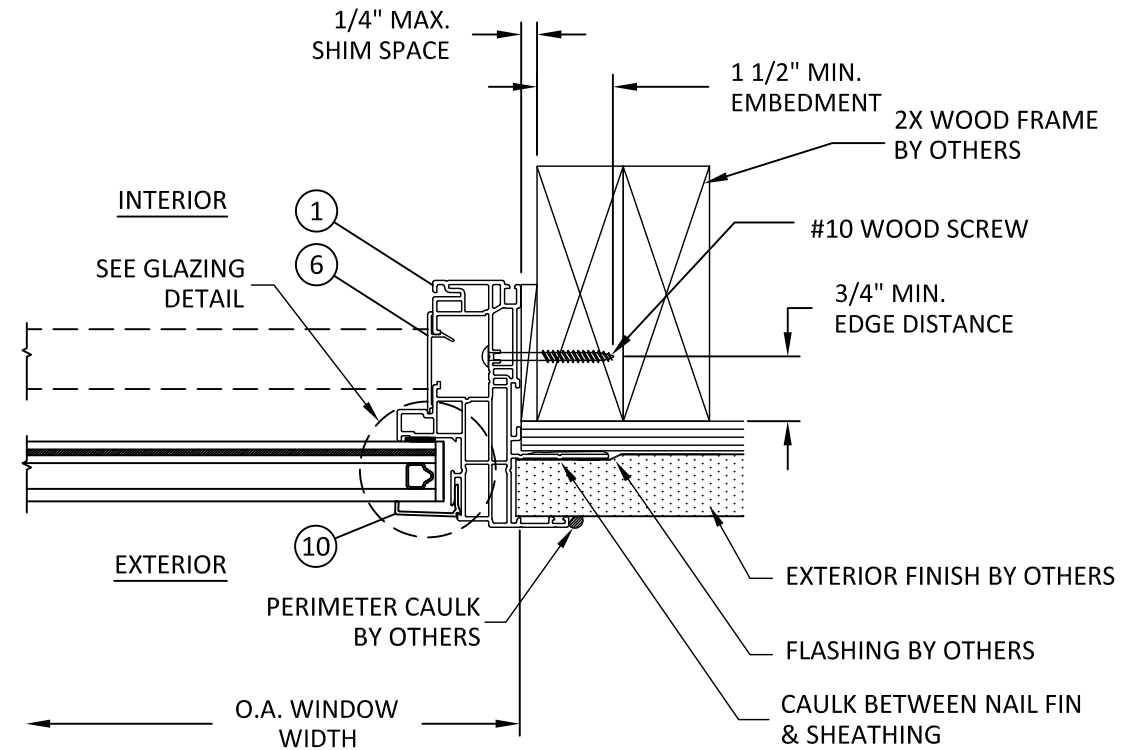
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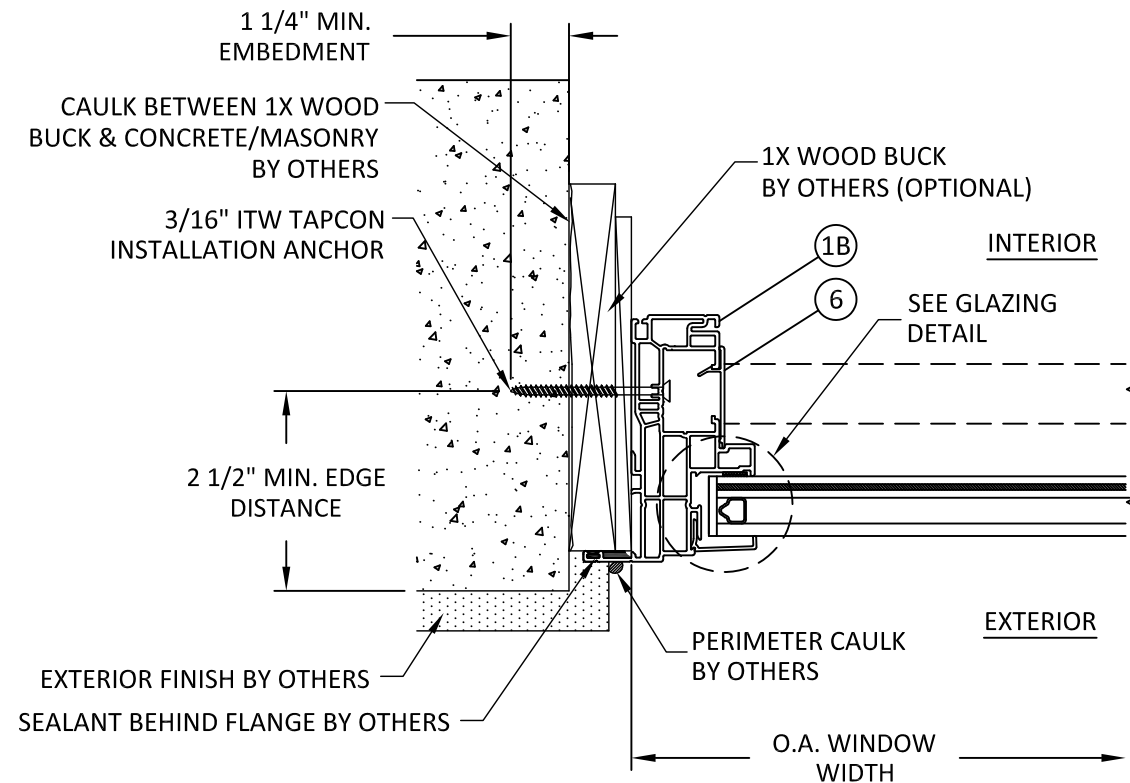
J
6 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY
J-CHANNEL/THROUGH FRAME



I
6 **VERTICAL SECTION**
SILL - PRE-CAST SILL
FLANGE/NO ANCHOR



L
6 **VERTICAL SECTION**
JAMB - WOOD
J-CHANNEL/THROUGH FRAME



K
6 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
FLANGE/THROUGH FRAME



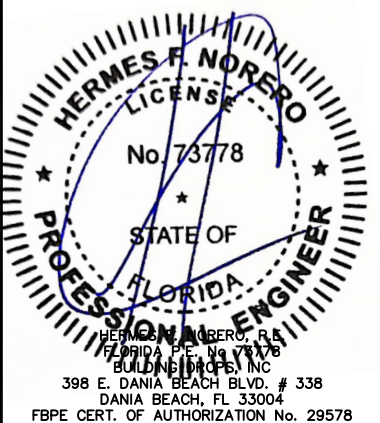
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THROUGH FRAME

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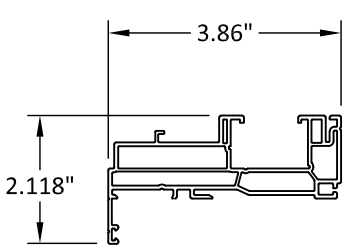
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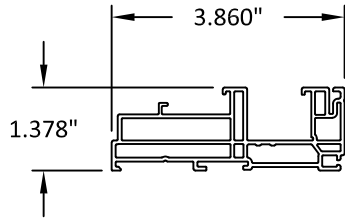
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DWG. BY:	NUS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SWD054
SHEET	6

BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	HEAD, JAMB FRAME (J-CHANNEL)	VINYL	VISION
1A	SILL FRAME (J-CHANNEL)	VINYL	VISION
1B	HEAD, JAMB FRAME (FLANGE)	VINYL	VISION
1C	SILL FRAME (FLANGE)	VINYL	VISION
1D	HEAD, JAMB FRAME (REPLACEMENT)	VINYL	VISION
1E	SILL FRAME (REPLACEMENT)	VINYL	VISION
2	MEETING RAIL	VINYL	VISION
3	FIXED MEETING RAIL	VINYL	VISION
4	HEAD INSERT	VINYL	VISION
5	SILL RISER	VINYL	VISION
6	JAMB COVER	VINYL	VISION
7	SASH HEAD	VINYL	VISION
8	LIFT RAIL	VINYL	VISION
9	STILE	VINYL	VISION
10	GLAZING BEAD	VINYL	VISION
11	SASH HEAD/LIFT RAIL REINFORCEMENT	ALUMINUM 6063-T6	TIFTON/AFCO
12	STILE REINFORCEMENT	ALUMINUM 6063-T6	TIFTON/AFCO
13	MEETING RAIL REINFORCEMENT	ALUMINUM 6063-T6	TIFTON/AFCO
14	BALANCE COVER	VINYL	VISION
15	WEATHERSTRIPING		ULTRA FAB
16	DOW 1199 GLASS BEDDING	SILICONE	DOW CORNING
17	SETTING BLOCK		
18	INSTALLATION CLIP	STEEL	CVDRIVER
19	DURA-SEAL IG SPACER	-	QUANEX
20	JAMB CAP	VINYL	VISION

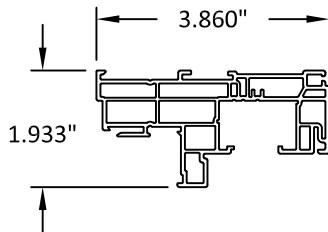
1C SILL FRAME (FLANGE)
VINYL
TYPICAL WALL THICKNESS: .060"



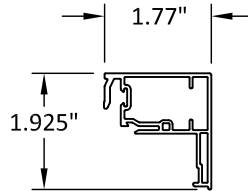
1D SILL FRAME (REPLACEMENT)
VINYL
TYPICAL WALL THICKNESS: .060"



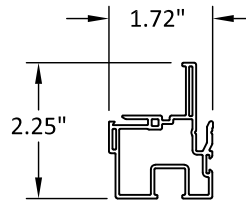
1E HEAD, JAMB FRAME (REPLACEMENT)
VINYL
TYPICAL WALL THICKNESS: .060"



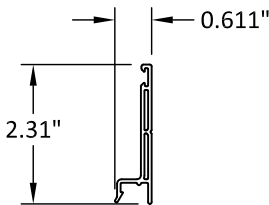
2 MEETING RAIL
VINYL
TYPICAL WALL THICKNESS: .060"



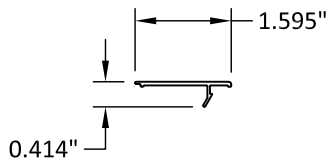
3 FIXED MEETING RAIL
VINYL
TYPICAL WALL THICKNESS: .050"



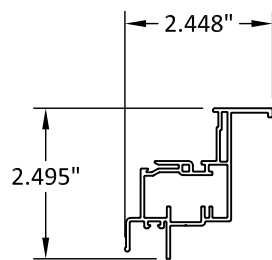
5 SILL RISER
VINYL
TYPICAL WALL THICKNESS: .060"



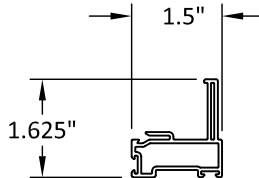
6 JAMB COVER
VINYL
TYPICAL WALL THICKNESS: .060"



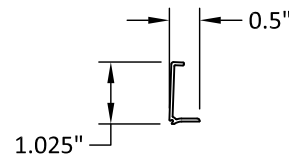
8 LIFT RAIL
VINYL
TYPICAL WALL THICKNESS: .060"



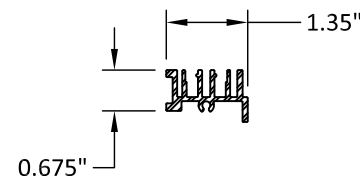
9 STILE
VINYL
TYPICAL WALL THICKNESS: .060"



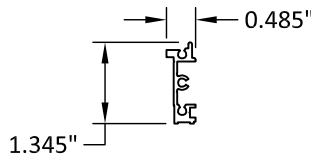
10 GLAZING BEAD
VINYL
TYPICAL WALL THICKNESS: .050"



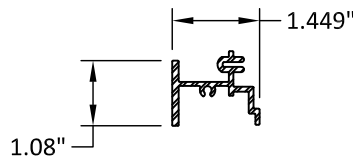
11 SASH HEAD/LIFT RAIL REINF.
ALUMINUM 6063-T6
TYPICAL WALL THICKNESS: .060"



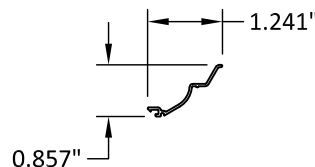
12 STILE REINFORCEMENT
ALUMINUM 6063-T6
TYPICAL WALL THICKNESS: .060"



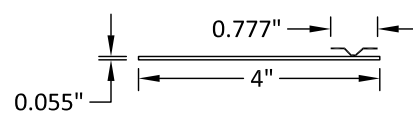
13 MEETING RAIL REINFORCEMENT
ALUMINUM 6063-T6
TYPICAL WALL THICKNESS: .060"



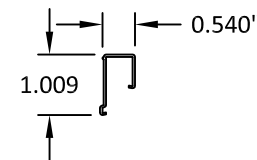
14 BALANCE COVER
VINYL
TYPICAL WALL THICKNESS: .040"



18 INSTALLATION CLIP
STEEL



20 JAMB CAP
VINYL
TYPICAL WALL THICKNESS: .040"



171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE: SERIES 9000 SINGLE HUNG
WINDOW
(NON-HVHZ)(IMPACT)
COMPONENTS & BILL OF MATERIALS

PREPARED BY:

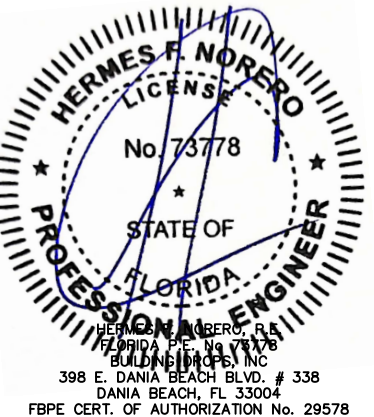
BUILDING DROPS, INC.

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



REMARKS	BY	DATE
NEW TESTING	LL	3/21
REVISION TO REINF.	LL	7/21
2023 FBC UPDATE	MS	10/11/23

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.



FL #:

FL8153

DATE: 09.26.2020

DWG. BY:
NUS

CHK. BY:
HFN

SCALE: NTS

DWG. #: SWD054

SHEET

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