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YKK AP America, Inc.

YVS 410 TU SINGLE HUNG WINDOW (NON-HVHZ) (NON-IMPACT)



YKK AP America, Inc.
1229 HWY 441 BYPASS
DUBLIN, GA 31021
PH: (478)277-1955 FAX: (678)838-6001

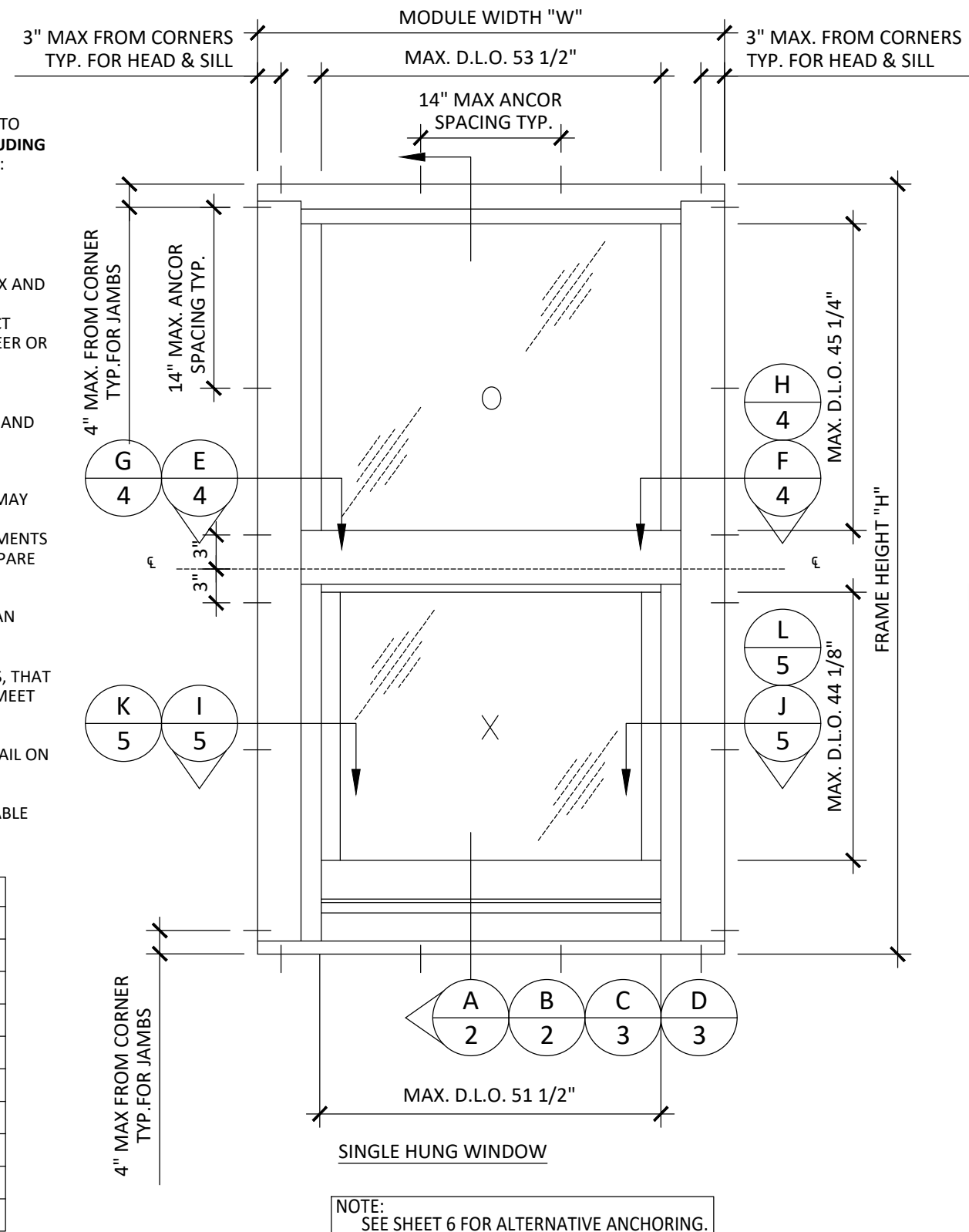
INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION THROUGH WOOD BUCK USE #14 WOOD SCREWS WITH EMBEDMENT AS SHOWN.
- FOR INSTALLATION ON MASONRY , USE 1/4" DIAMETER ITW TAPCON SCREWS WITH EMBEDMENT AS SHOWN.
- FOR INSTALLATION ON STEEL STUDS , USE 1/4" SELF-DRILLING, GR. 5 SCREWS WITH EMBEDMENT AS SHOWN.
- FOR INSTALLATION THROUGH APPROVED ALUMINUM MULLIONS, USE 1/4" SELF-DRILLING, GR. 5 SCREWS WITH EMBEDMENT AS SHOWN.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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 3000 PSI COMPRESSIVE STRENGTH
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS.
 - ALUMINUM - MINIMUM 0.067 INCH THICK, 6063-T5 ALUMINUM.

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 E283-19
 - ASTM E330-14
 - ASTM E331-00(16)
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD 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.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE 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 CONDITION 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 AREAS REQUIRING IMPACT RESISTANCE IT IS REQUIRED TO ADD AN IMPACT RESISTANT SYSTEM SUCH AS SHUTTERS FOR PROTECTION.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- GLASS SHALL MEET ASTM E1300 REQUIREMENTS, SEE GLAZING DETAIL ON SHEET 7.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING: X: OPERABLE PANEL O: FIXED PANEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL, INSTALLATION NOTES & ELEVATION
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4	HORIZONTAL SECTION FIXED JAMB
5	HORIZONTAL SECTION VENT JAMB
6	ALTERNATIVE ANCHOR OPTIONS
7	GLAZING DETAIL & PRESSURE CHART
8	COMPONENTS & BILL OF MATERIALS
9	COMPONENTS



TITLE: YVS 410 TU SINGLE HUNG WINDOW (NON-HVHZ) (NON-IMPACT)

INSTALLATION, GENERAL NOTES & ELEVATION

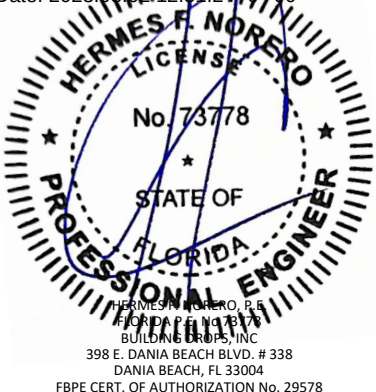
PREPARED BY: BUILDING DROPS, INC.

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
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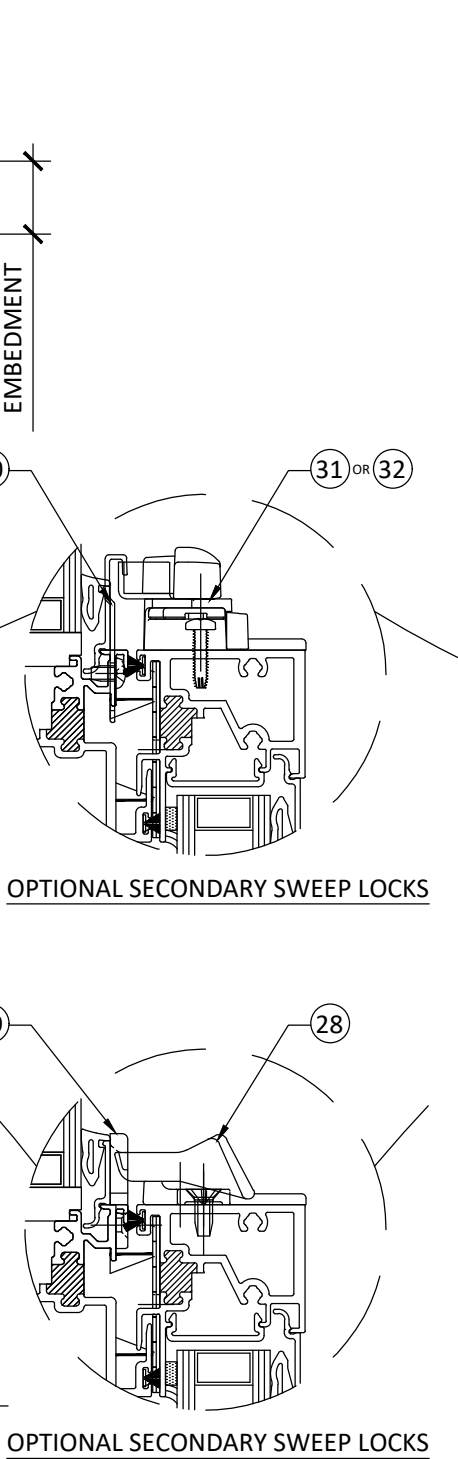
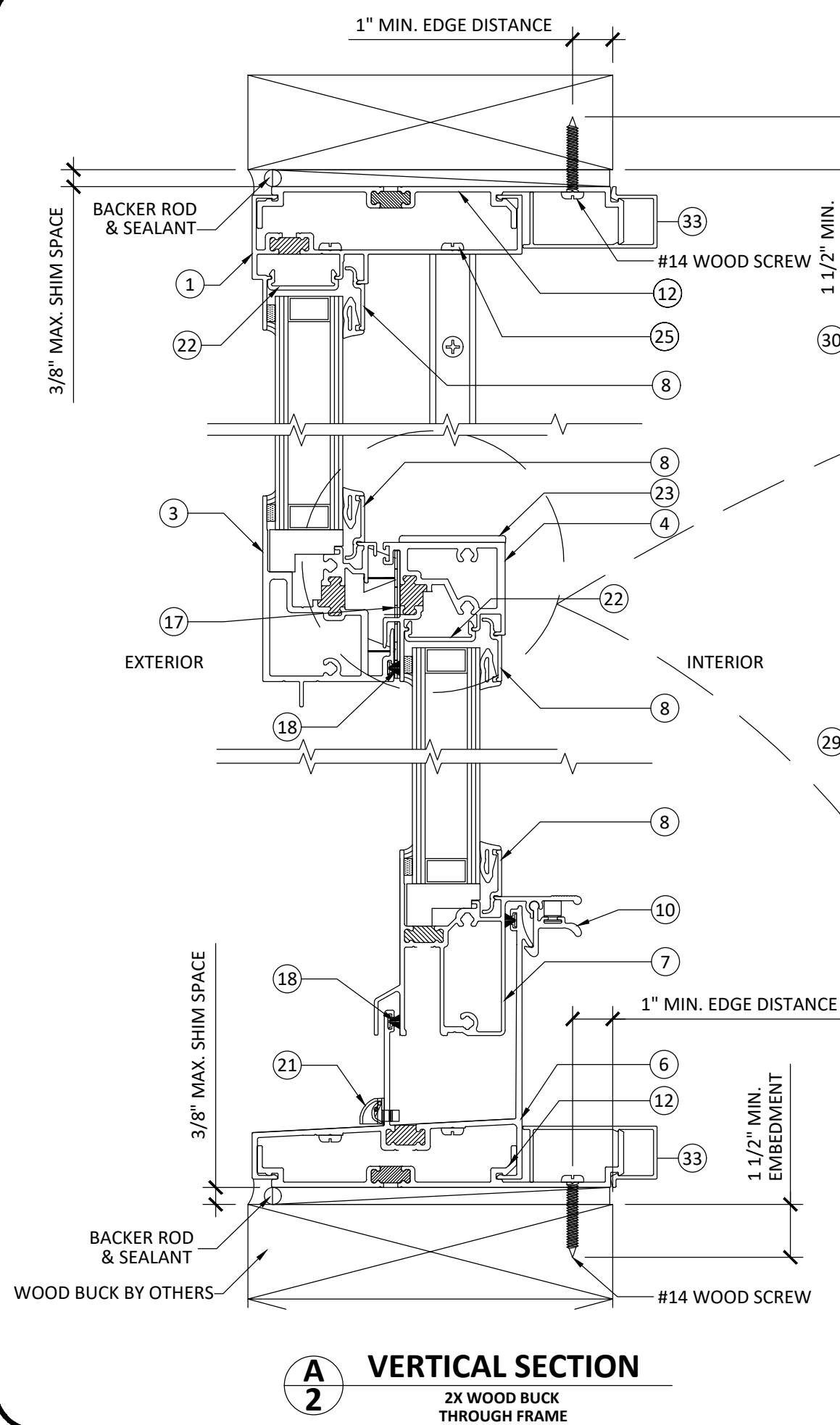
Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.06.11 12:41:24 -0400



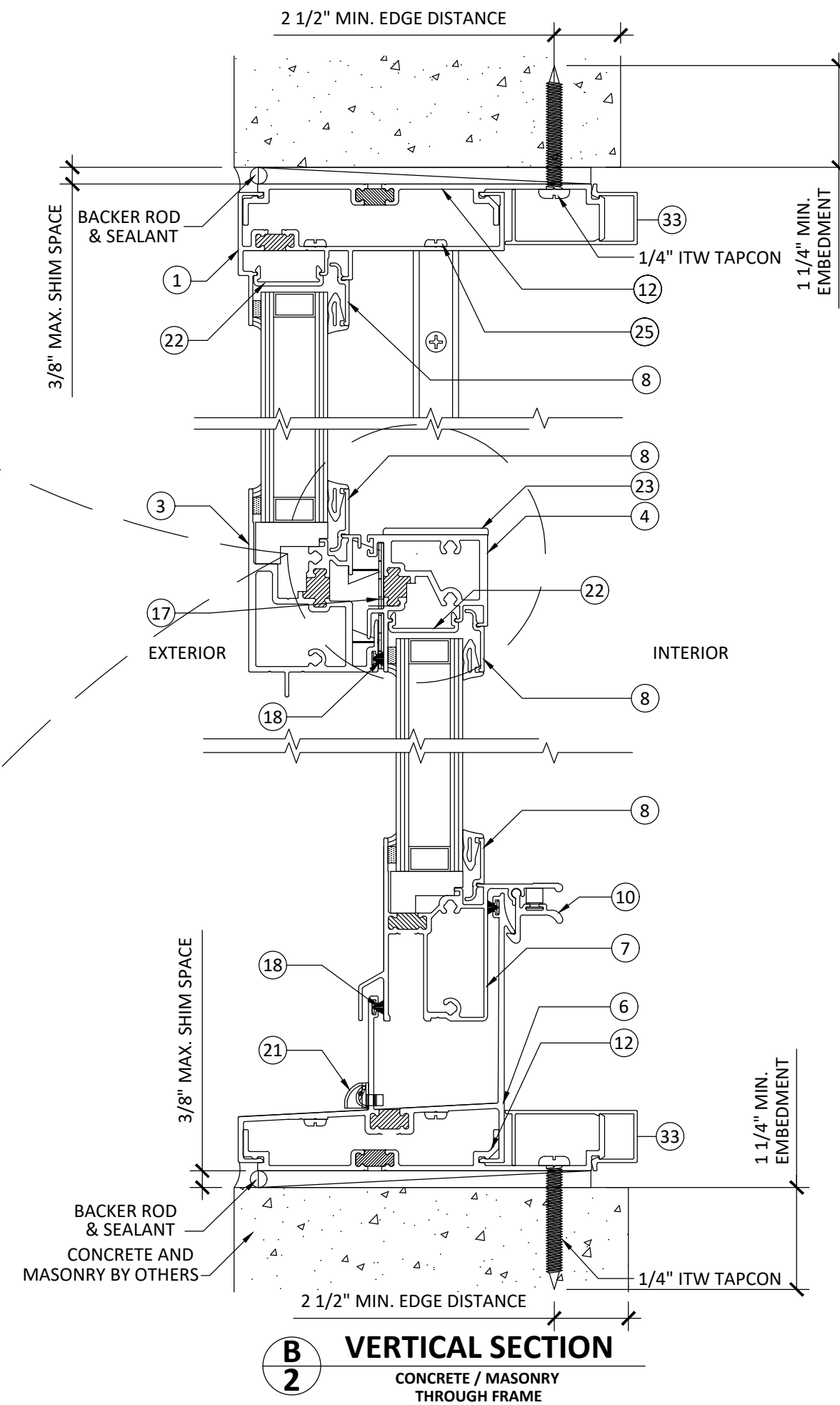
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SHEET: 1 OF 9

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NOTE: SEE SHEET 6
FOR ALTERNATIVE
ANCHOR OPTION



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VERTICAL SECTIONS

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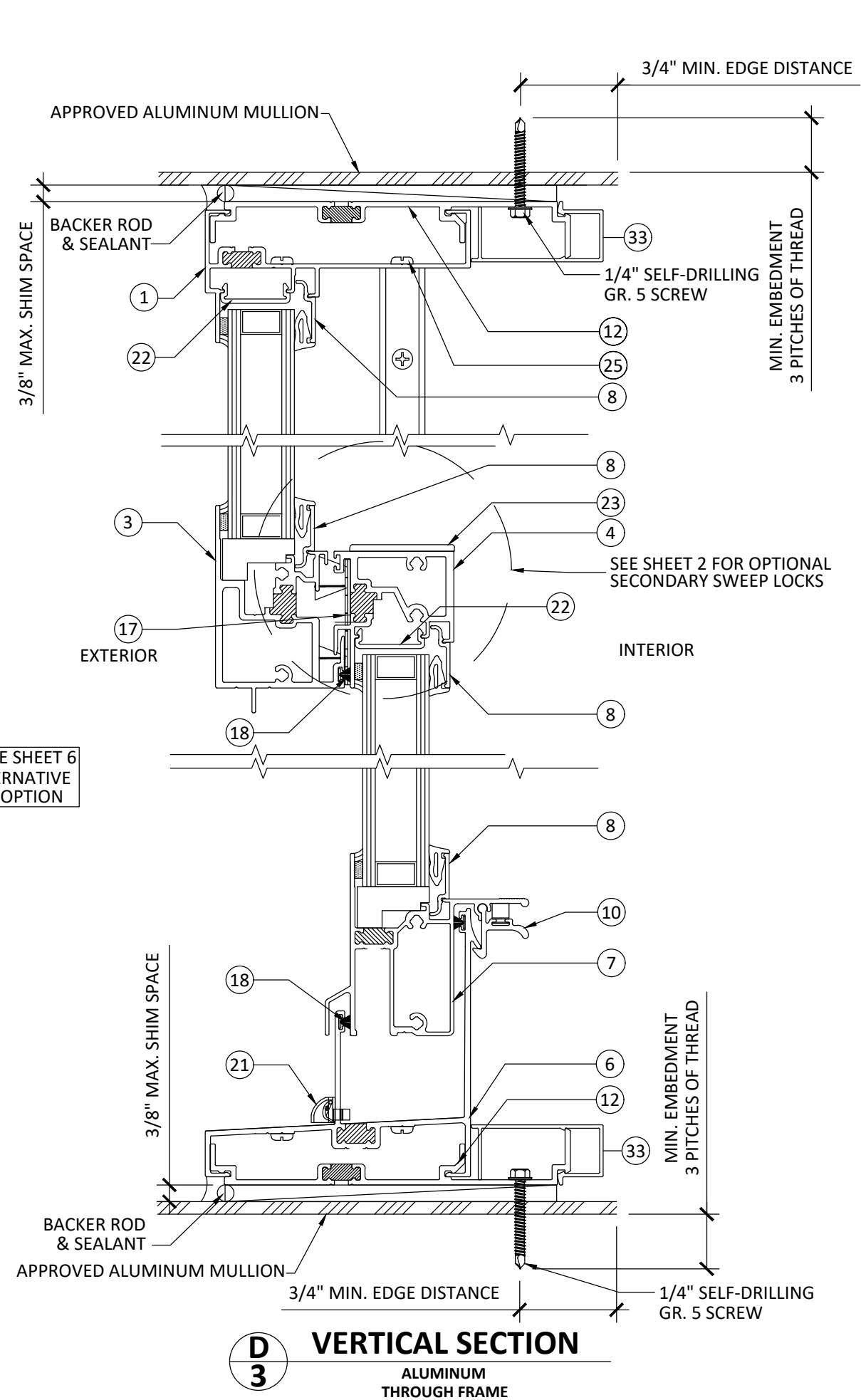
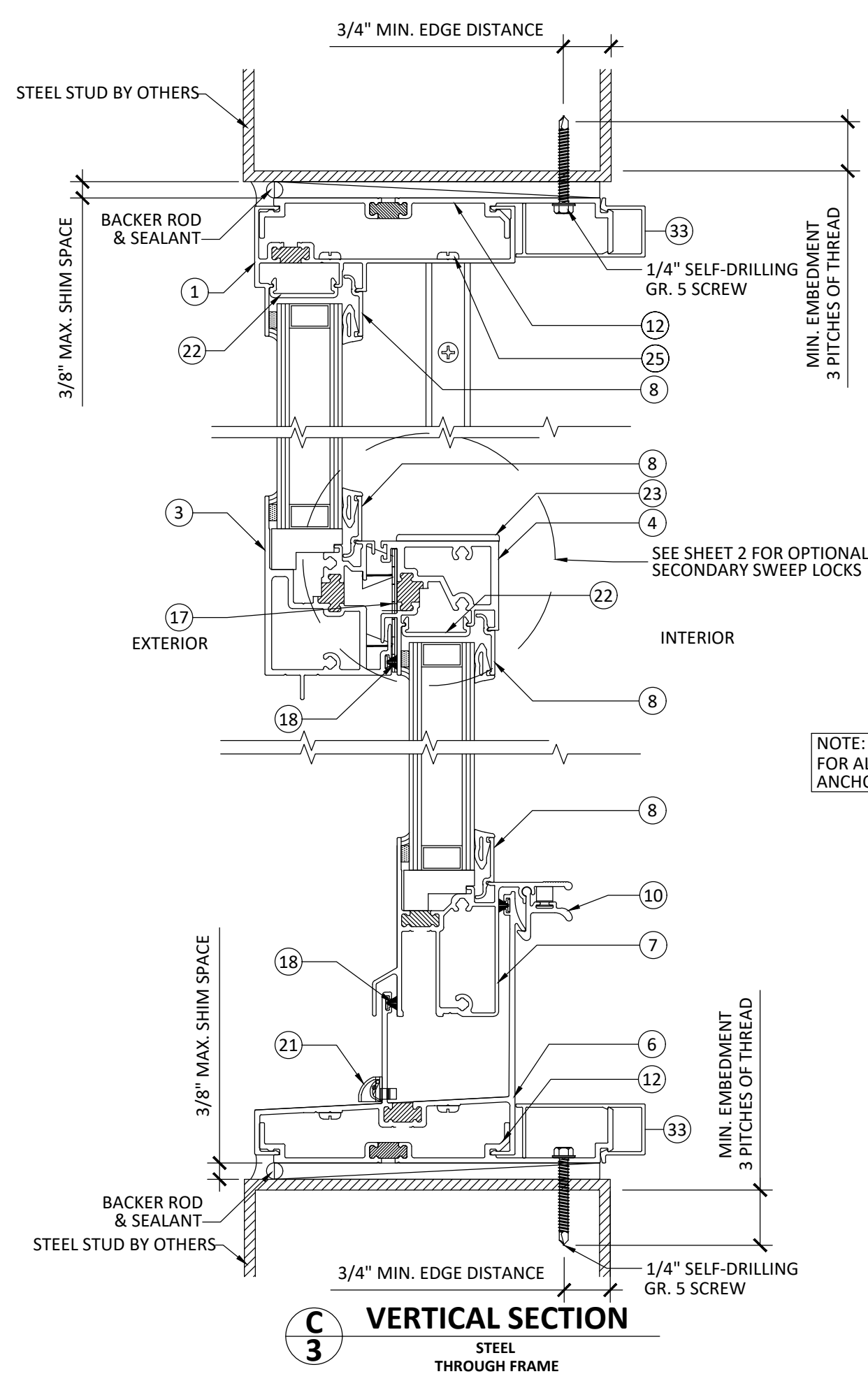
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BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
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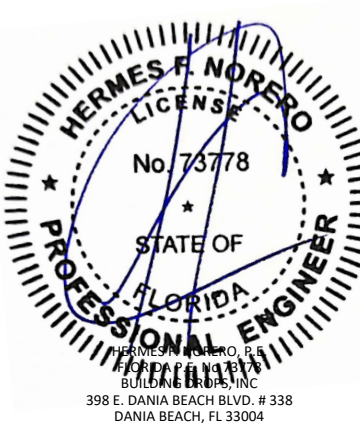
VERTICAL SECTIONS CONT'D

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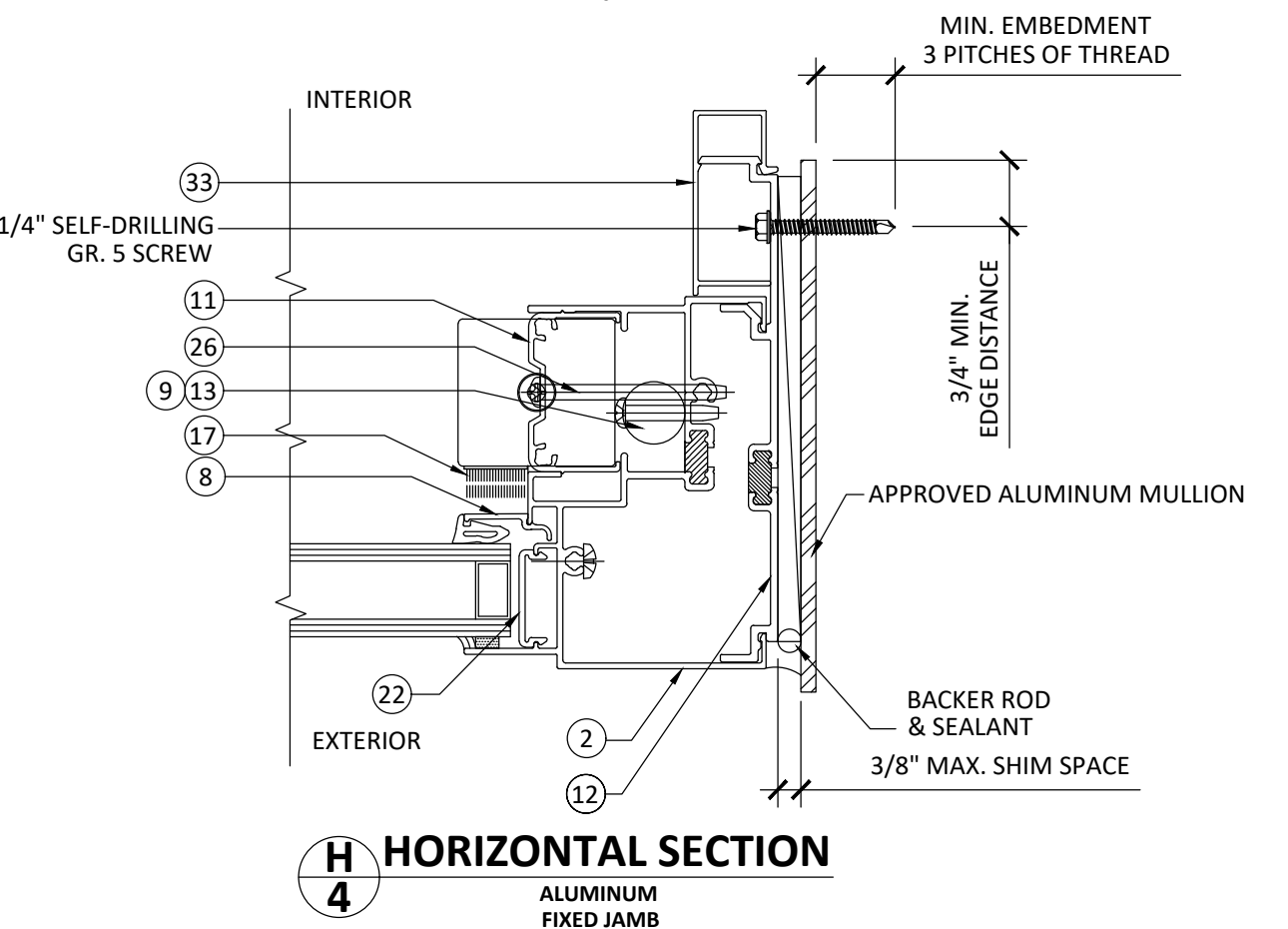
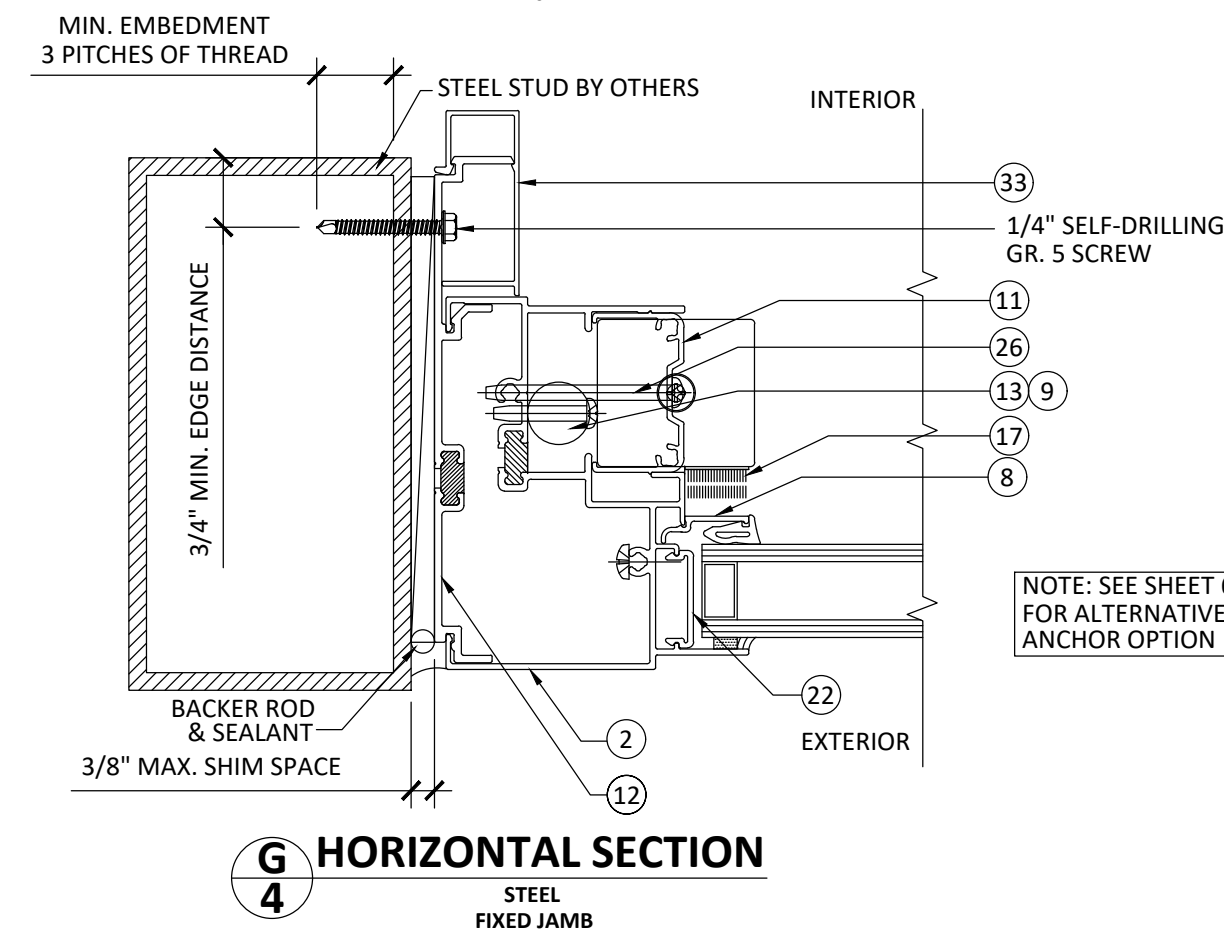
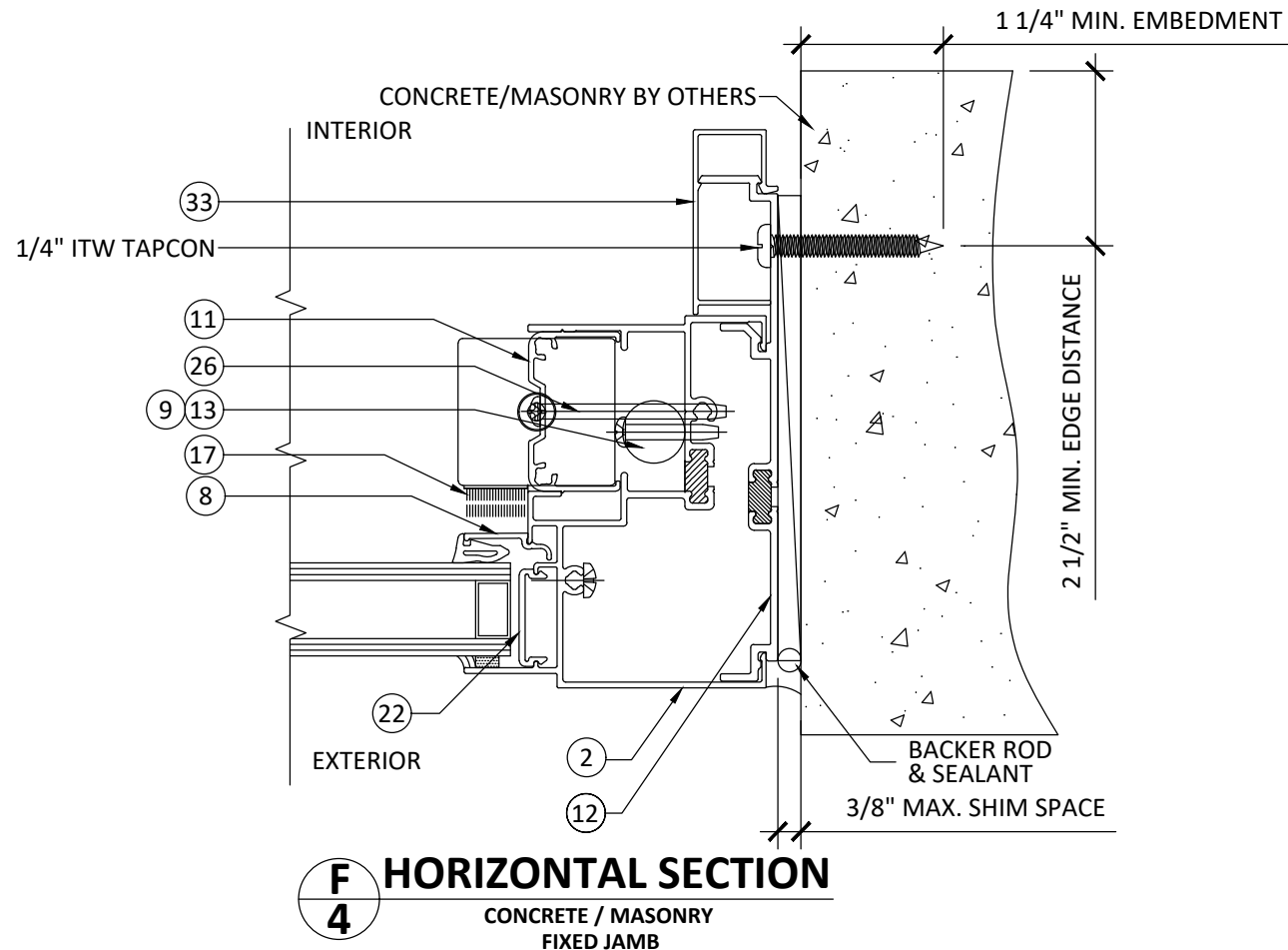
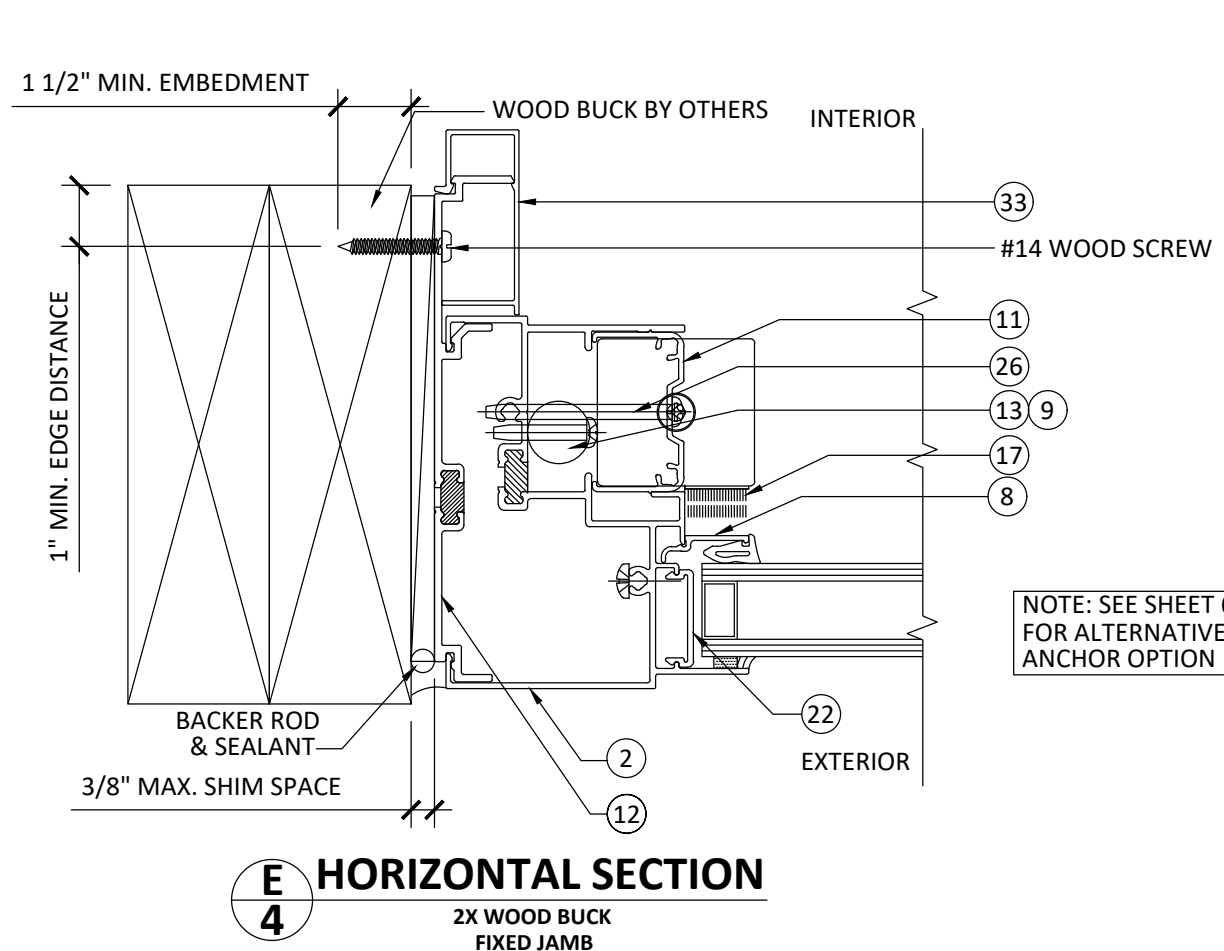


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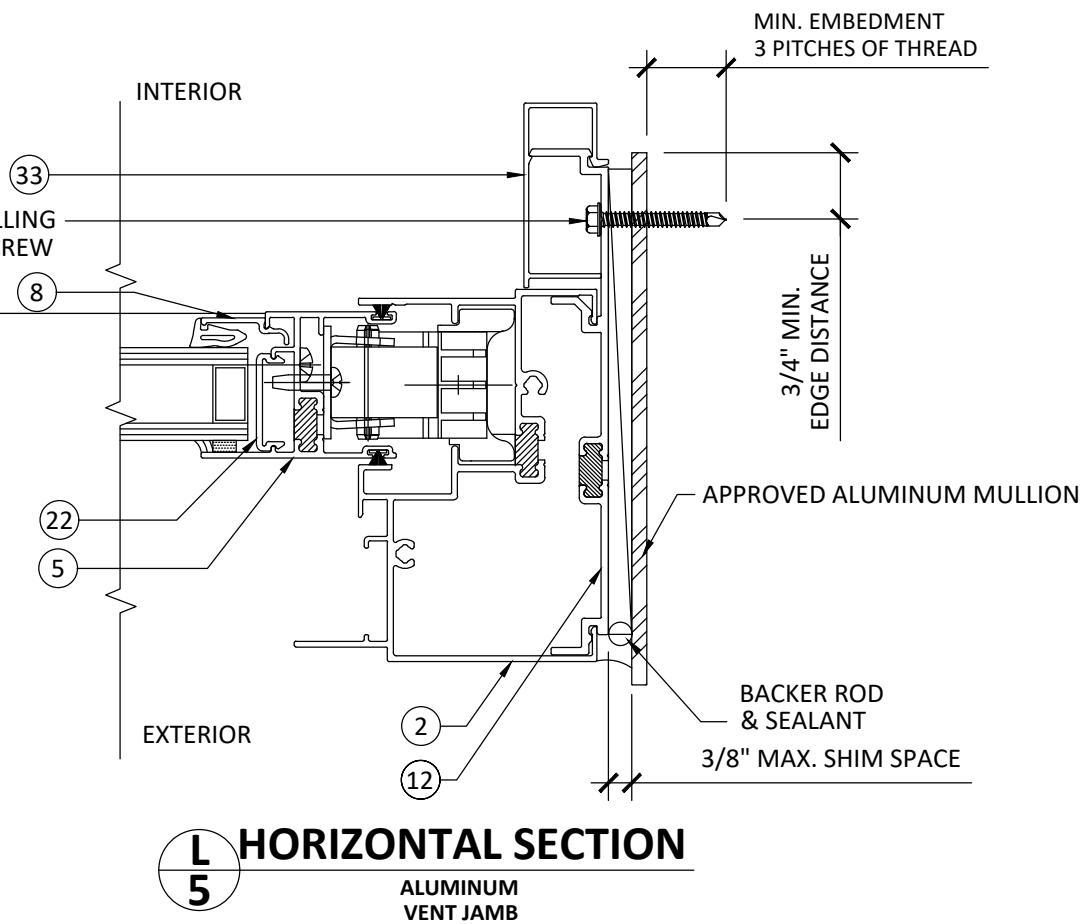
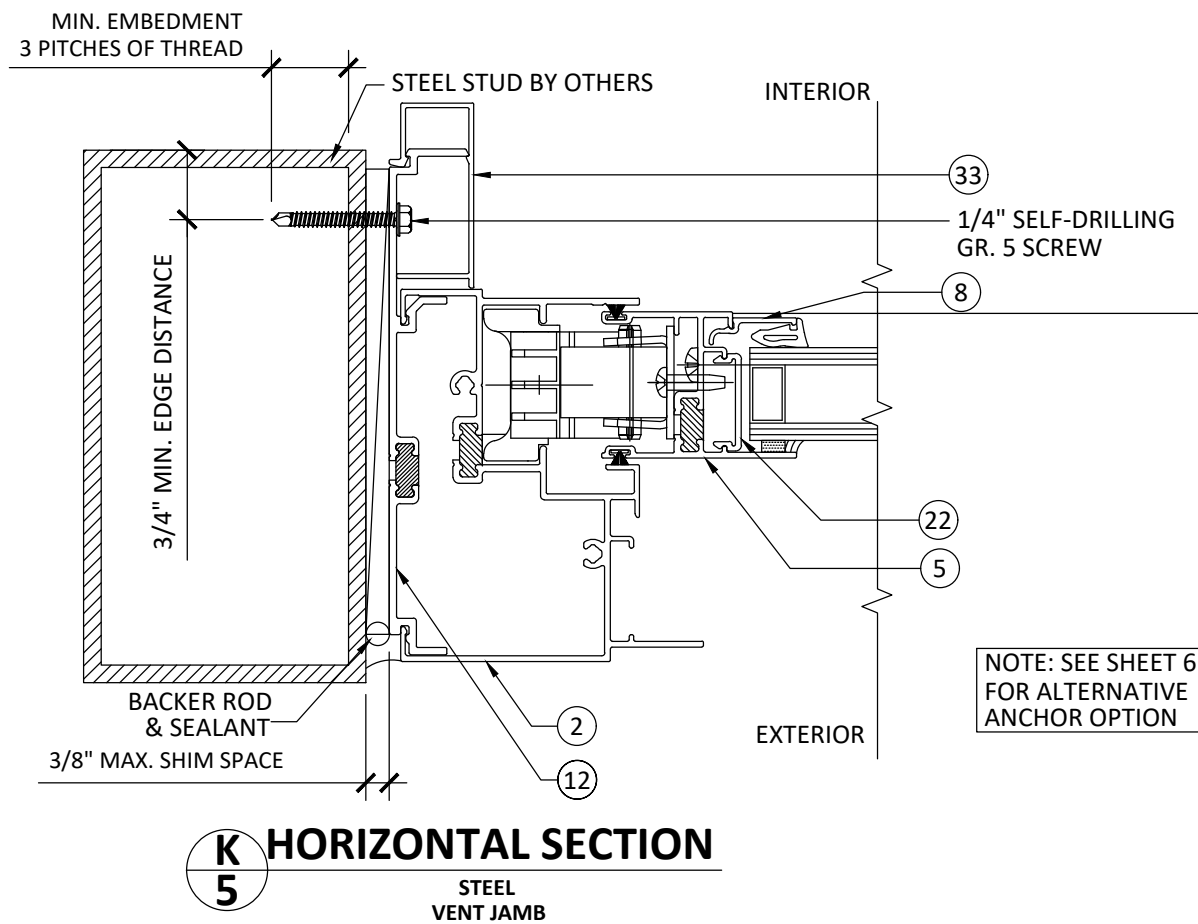
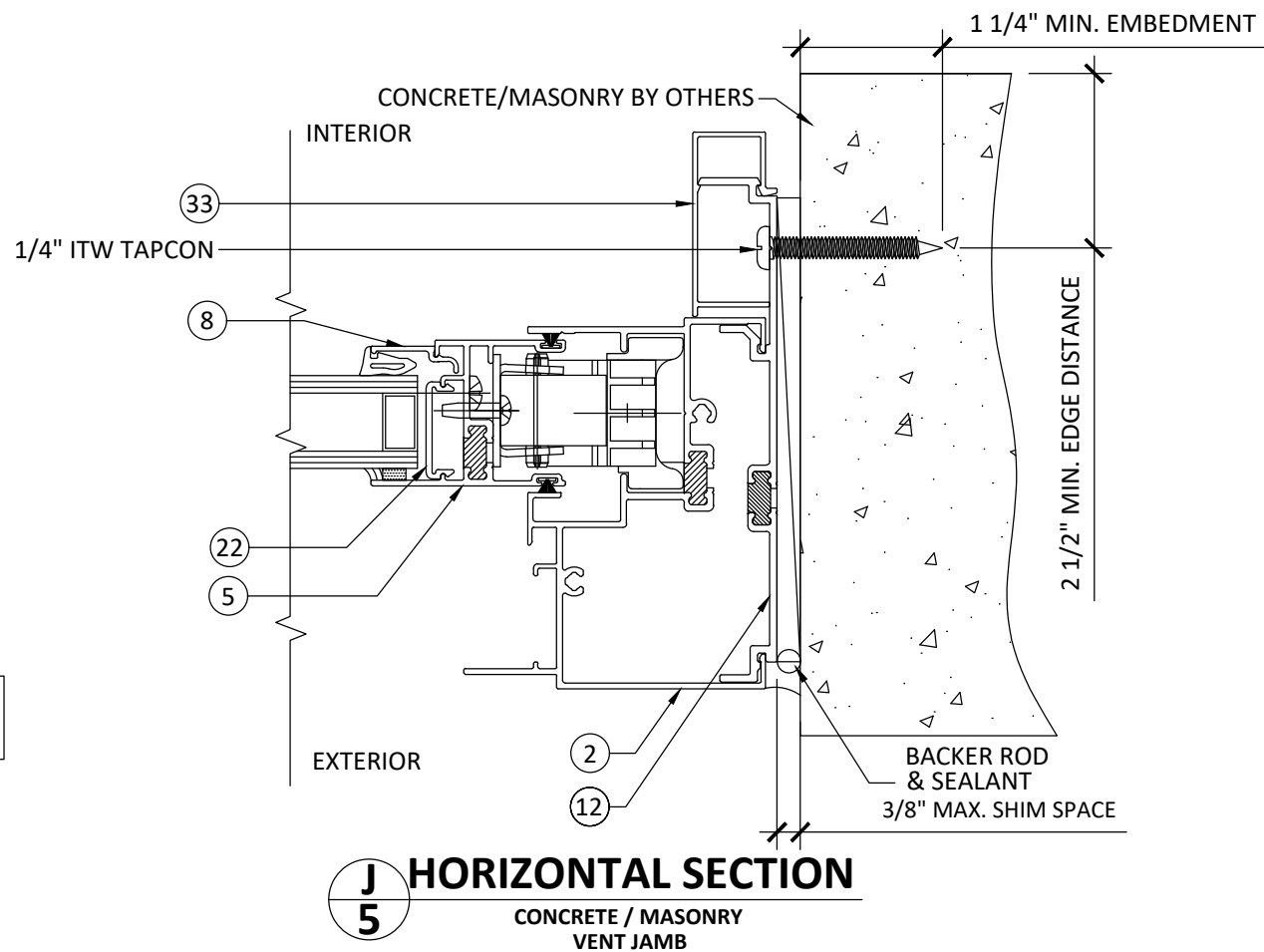
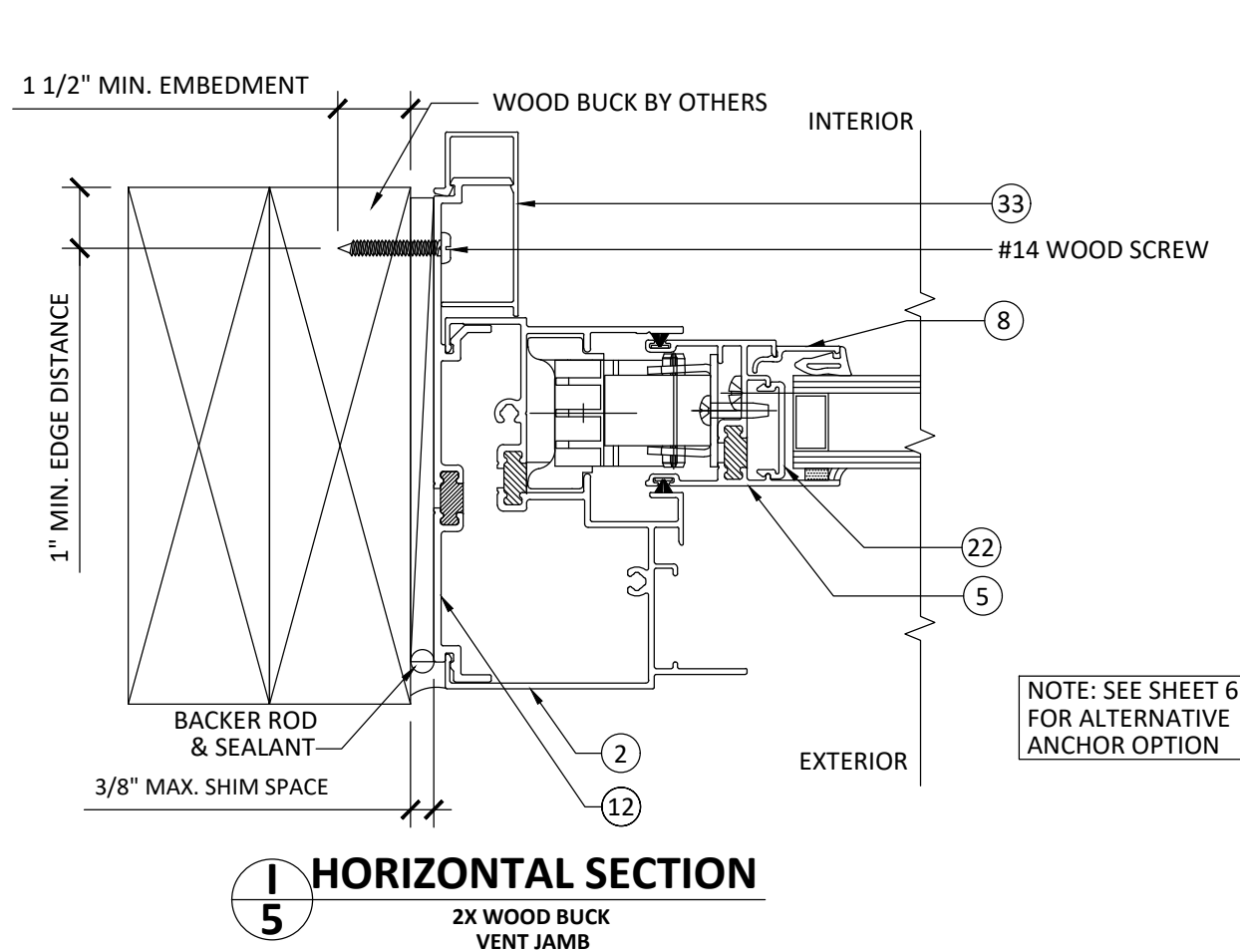


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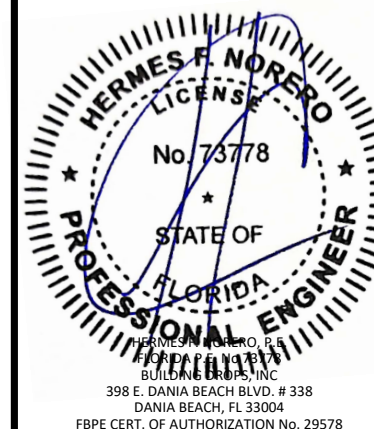
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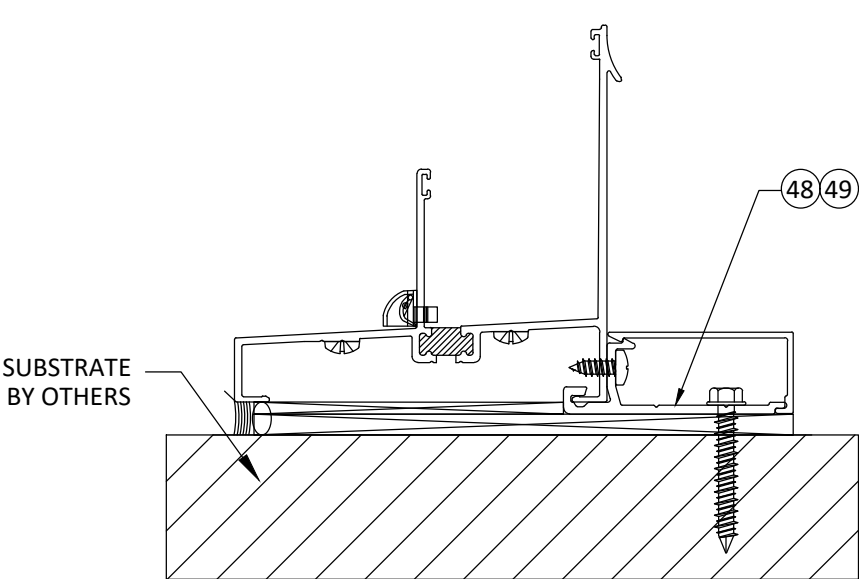
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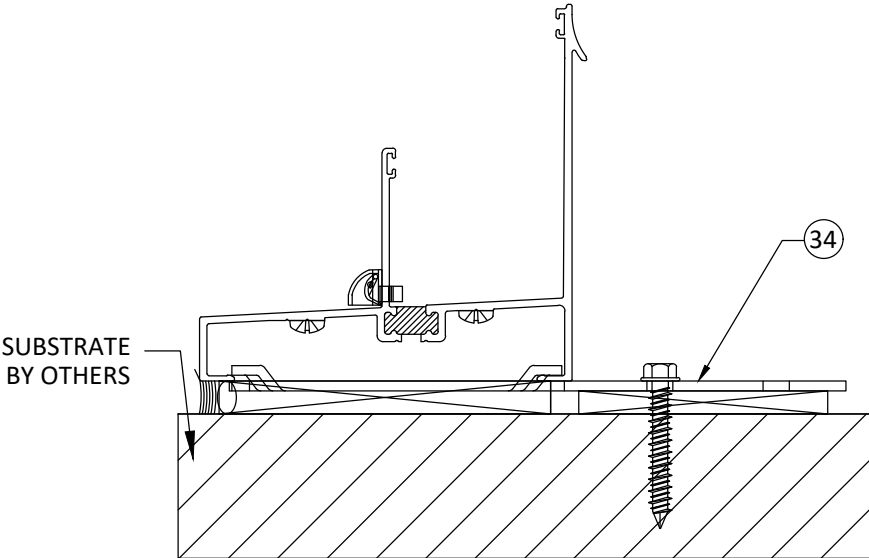
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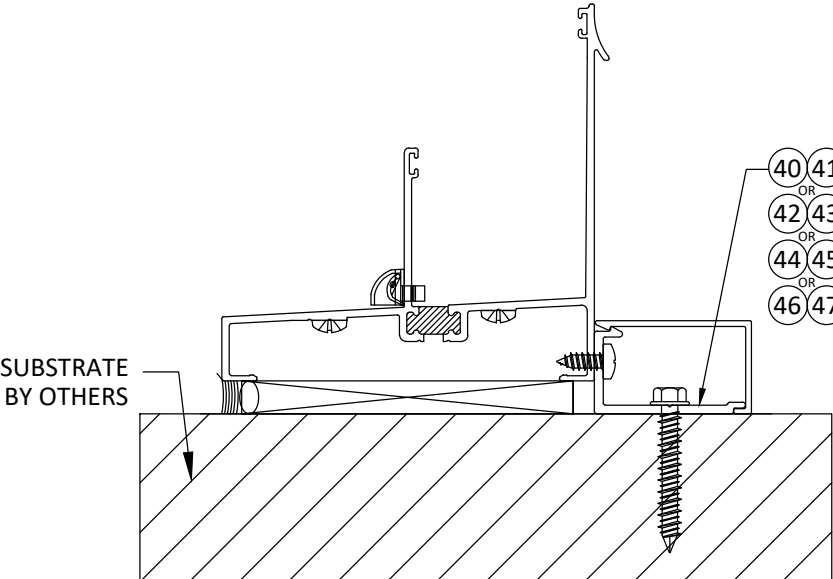
ALTERNATIVE ANCHOR OPTIONS



M
6 **VERTICAL SECTION**
CLIP ANCHOR
TYP. HEAD, JAMB & SILL



N
6 **VERTICAL SECTION**
TWIST ANCHOR
TYP. HEAD, JAMB & SILL



O
6 **VERTICAL SECTION**
TRIM CLIP ANCHOR
TYP. HEAD, JAMB & SILL



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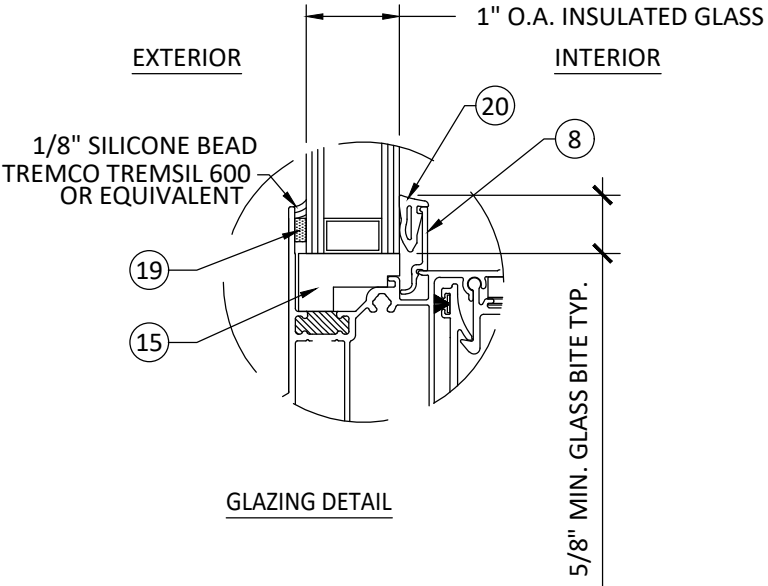
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MAXIMUM ALLOWABLE DESIGN PRESSURE (ASD)			
FRAME WIDTH, W (IN.)	FRAME HEIGHT, H (IN.)	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)
36	36	100.0	100.0
48		100.0	100.0
60		100.0	100.0
72		79.2	79.2
84		49.5	49.5
96		33.0	33.0
108		23.1	23.1
36	48	100.0	100.0
48		100.0	100.0
60		98.5	98.5
72		60.6	60.6
84		37.7	37.7
96		25.0	25.0
108		17.5	17.5
36	60	100.0	100.0
48		95.6	95.6
60		84.0	84.0
72		49.7	49.7
84		30.7	30.7
96		20.3	20.3
36	72	99.7	99.7
48		86.6	86.6
60		75.0	75.0
72		42.8	42.8
82		28.3	28.3
36	84	94.4	94.4
48		77.9	77.9
60		69.2	69.2
70		41.8	41.8
36	96	86.8	86.8
48		70.9	70.9
60		65.6	65.6
36	99	85.4	85.4
48		70.9	70.9
60		65.0	65.0
36	108	81.8	81.8
48		70.2	70.2
55		60.6	60.6

PRESSURE CHART NOTES

1. THE DESIGN PRESSURES IN THESE CHARTS ARE FOR THE WINDOW SHOWN HERE WHEN USED PER INSTALLATION INSTRUCTIONS.
2. DESIGN PRESSURES ARE OBTAINED BY ENGINEERING ANALYSIS CALCULATED IN ACCORDANCE WITH THE CURRENT FBC.
3. SELECT FRAME WIDTH (W) AND HEIGHT (H) IN INCHES AND OBTAIN THE MAXIMUM DESIGN PRESSURE FROM THE CHART.
4. MAX PRESSURES ARE LIMITED TO 100 PSF FOR POSITIVE WIND PRESSURE AND 100 PSF FOR NEGATIVE WIND PRESSURE.
5. GLAZING LOAD RESISTANCE SHALL MEET ASTM E1300 CRITERIA.
6. PRESSURE CHARTS INCLUDE CAPACITY OF ANCHORS FOR ALL SUBSTRATES.



NOTES:

1. GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E 1300 GLASS CHART REQUIREMENTS.
2. ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC.
3. ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH. 24
4. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.

AIR SPACE CONSISTING OF :

- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.



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PRESSURE CHART & GLAZING DETAIL

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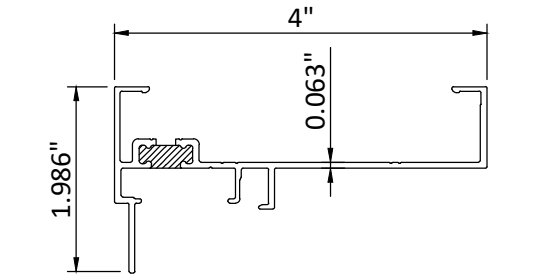
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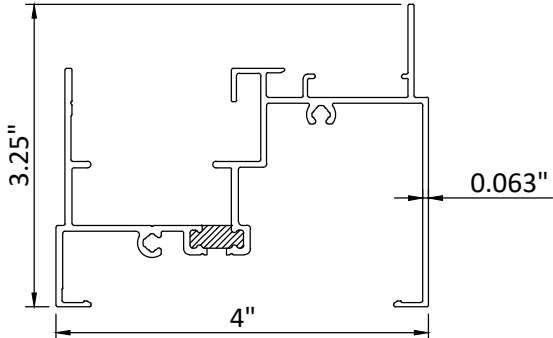
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YVS 410 TU SINGLE HUNG BILL OF MATERIALS			
ITEM #	PART NUMBER	DESCRIPTION	MATERIAL
1	BE9-4701	HORIZONTAL FRAME	6063-T5
2	BE9-4706	JAMB FOR S.H. (ULTRALIFT)	6063-T5
3	BE9-4709	HORIZ MULLION/LOCKING RAIL	6063-T5
4	BE9-4710	LOCKING RAIL (INSIDE)	6063-T5
5	BE9-4712	VERTICAL STILE	6063-T5
6	BE9-4717	SILL	6063-T5
7	BE9-4718	BOTTOM RAIL	6063-T5
8	E9-4713	GLASS STOP	6063-T5
9	E1-1755	ULTRALIFT BALANCE	6063-T5
10	E1-1758	HEAD/SILL LOCK	6063-T5
11	E1-1769	VENT STOPPER FOR TOP	6063-T5
12	BE9-8567	STRAP ANCHOR	GALV. STEEL
13	E1-1941	CARRIER FOR ULTRALIFT	
14	E1-1942	BRACKET	
15	E2-0661	SETTING BLOCK	EPDM
16	E2-0662	SETTING BLOCK	EPDM
17	E2-0666	AIRTIGHT PAD	POLYPROPYLENE
18	E2-0062	WEATHERSEAL	POLYPROPYLENE
19	E2-0670	GLAZING TAPE	POLYURETHANE
20	E2-0671	WEDGE GASKET	EPDM
21	E3-1101	WEEP HOLE COVER	NYLON
22	E3-1111	SIDE BLOCK	PVC (RIGID)
23	E3-1124	CORNER CAP FOR TOP	POLYACETAL
24	PC-1020-SS	#10 X 1-1/4" PHSMS SS TYPE AB	STAINLESS STEEL
25	PC-1016-SS	#10 X 1" PHSMS SS TYPE AB	STAINLESS STEEL
26	PF-0832-SS	#8-32 X 2" PLPHSMS SS TYPE AB	STAINLESS STEEL
27	PC-1010-SS	#10 X 5/8" PHSMS SS TYPE AB	STAINLESS STEEL
28	E1-1761	SWEEP LOCK	WHITE BRONZE
29	E1-1762	KEEPER	WHITE BRONZE
30	E1-1774	KEEPER	STAINLESS SREEL

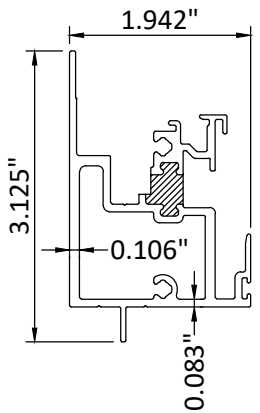
YVS 410 TU SINGLE HUNG BILL OF MATERIALS			
ITEM #	PART NUMBER	DESCRIPTION	MATERIAL
31	5K-18622	SWEEP LOCK-RH	STAINLESS/DIE CAST/PA66
32	5K-18623	SWEEP LOCK-LH	STAINLESS/DIE CAST/PA66
33	E9-8431	ANCHOR COVER	6063-T5
34	E1-1972	TWIST ANCHOR	12 GA. GALVANIZED STEEL
35			
36			
37	E2-0051	GASKET-AIRTIGHT	SANTOPRENE
38	E1-1949	END CAP	0.050 ALUMINUM SHEET
39	E1-1946	END DAM	0.050 ALUMINUM SHEET
40	E9-4556	CLIP - 1" x 1 1/4"	6063-T5
41	E9-4557	TRIM - 1" x 1 1/4"	6063-T5
42	E9-8537	CLIP - 1" x 1 11/16"	6063-T5
43	E9-8538	TRIM - 1" x 1 11/16"	6063-T5
44	E9-4031	CLIP - 1" x 2"	6063-T5
45	E9-4032	TRIM - 1" x 2"	6063-T5
46	E9-8562	CLIP - 1 1/8" x 3 1/2"	6063-T5
47	E9-8563	TRIM - 1 1/8" x 3 1/2"	6063-T5
48	E1-1922	ANCHOR CLIP	6063-T5
49	E9-4035	ANCHOR CLIP TRIM	6063-T5



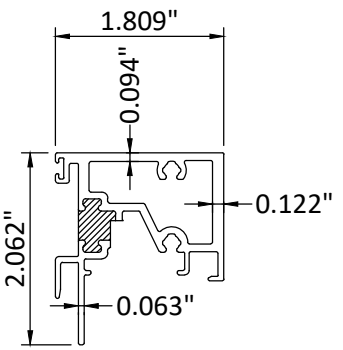
1 HORIZONTAL FRAME



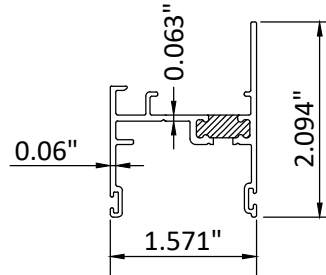
2 JAMB - SINGLE HUNG



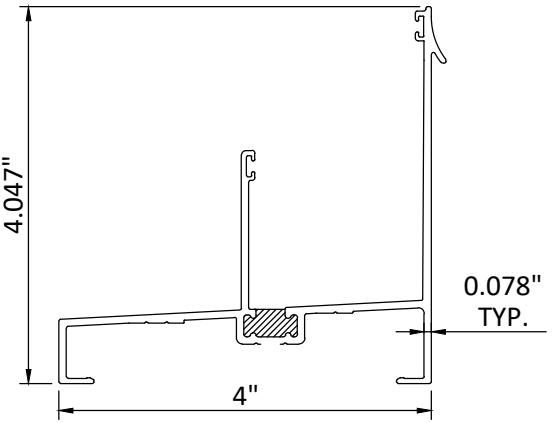
3 HORIZONTAL MULLION/LOCKING RAIL



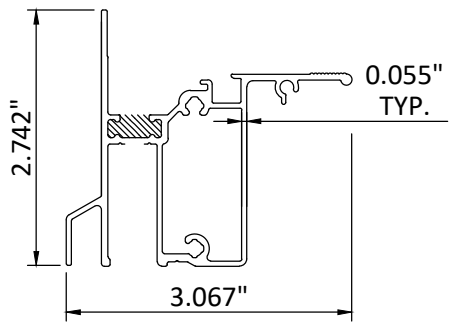
4 LOCKING RAIL (INSIDE)



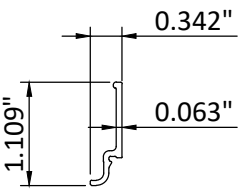
5 VERTICAL STILE



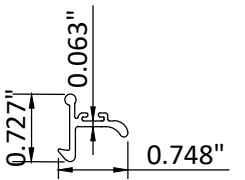
6 SILL



7 BOTTOM RAIL



8 GLASS STOP



10 HEAD/SILL LOCK



YKK AP America, Inc.
1229 HWY 441 BYPASS
DUBLIN, GA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YVS 410 TU SINGLE HUNG WINDOW (NON-HVHZ) (NON-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
8TH FBC CODE CHANGE	OL	6.08.23

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FL #: FL12878

DATE: 06.11.15

DWG. BY: LS
CHK. BY: HFN

SCALE: NTS

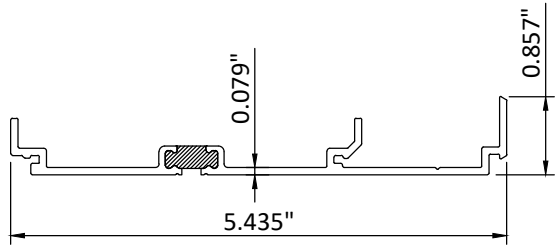
DWG. #: YKK060

SHEET:

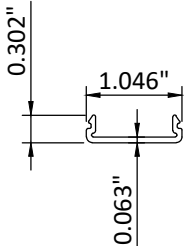
8

OF 9

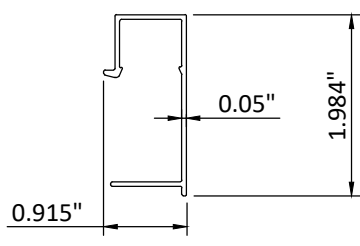
7/20/2023 9:28 AM
z:\projects\ykk ap america, inc\cc-23-0226.1 - fbc 2023 (8th edition) commercial code change.dwg; fl12878\ykk060.dwg



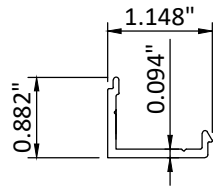
12 STRAP ANCHOR



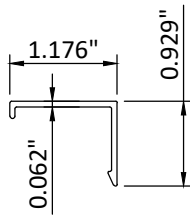
22 SIDE BLOCK



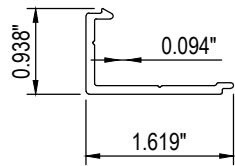
33 ANCHOR COVER



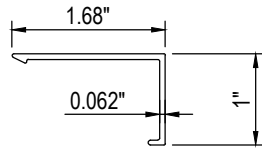
40 CLIP - 1" X 1-1/4"



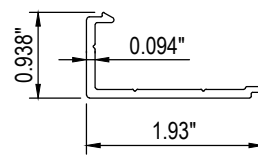
41 TRIM - 1" X 1-1/4"



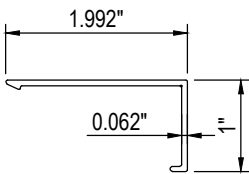
42 CLIP - 1" X 1-11/16"



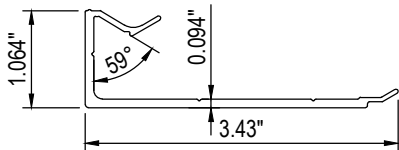
43 TRIM - 1" X 1-11/16"



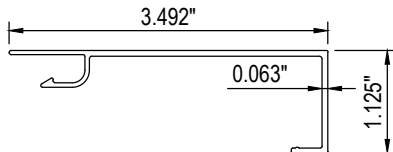
44 CLIP - 1" X 2"



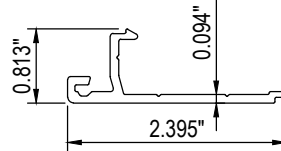
45 TRIM - 1" X 2"



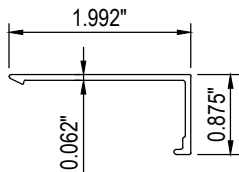
46 CLIP - 1-1/8" X 3-1/2"



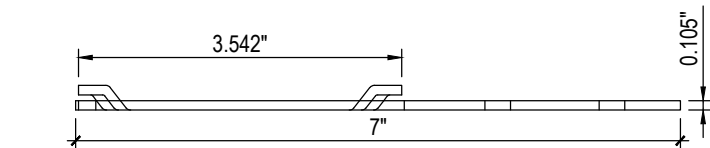
47 TRIM - 1-1/8" X 3-1/2"



48 ANCHOR CLIP



49 ANCHOR CLIP TRIM



34 TWIST ANCHOR



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TITLE:
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(NON-HVHZ) (NON-IMPACT)

COMPONENTS

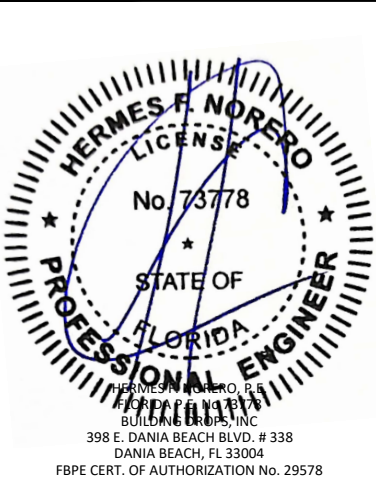
PREPARED BY:
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FL #:	FL12878
DATE:	06.11.15
DWG. BY:	LS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK060
SHEET:	9