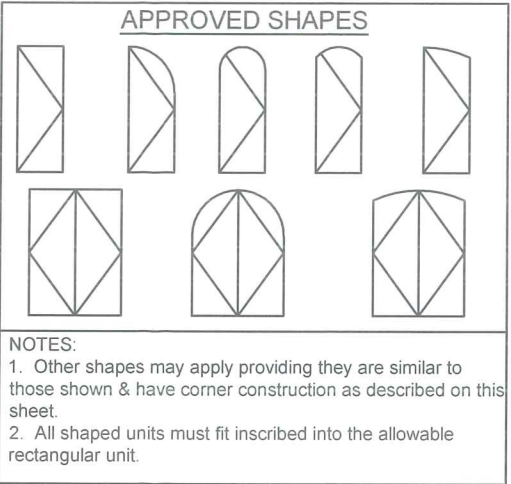


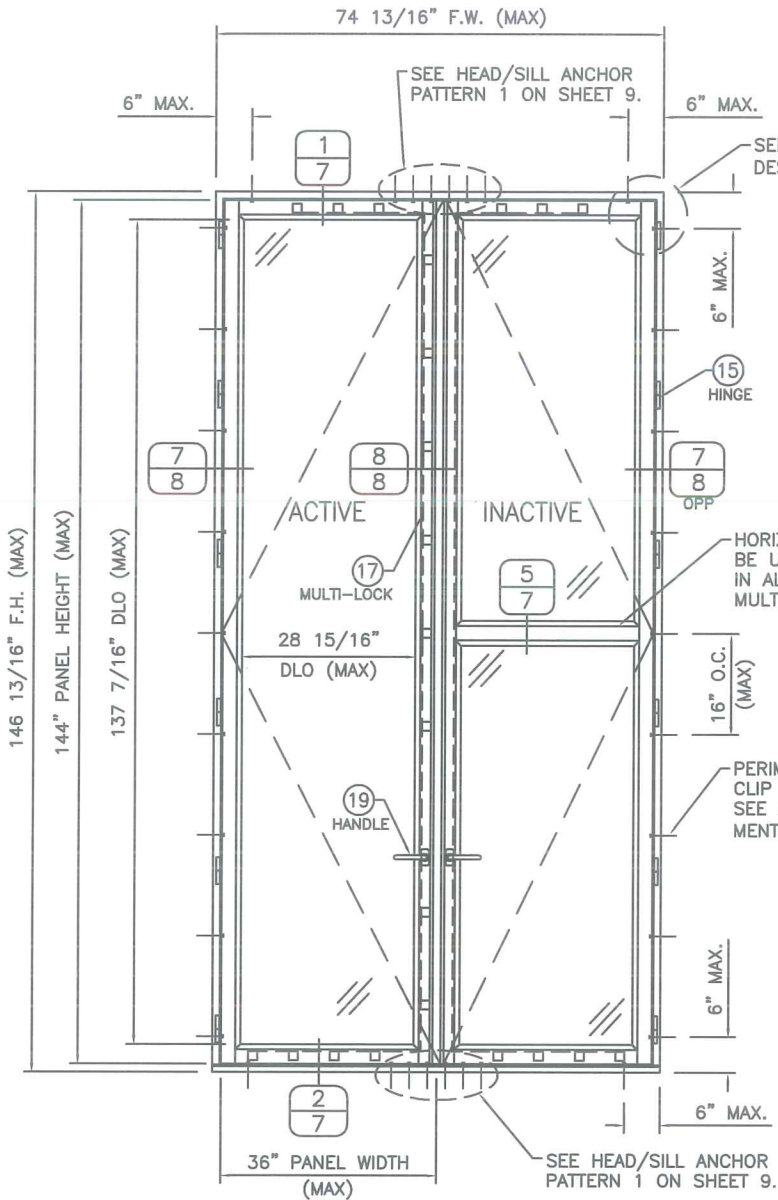
GENERAL NOTES:

1. ALLOWABLE DESIGN PRESSURE: +65/-70 PSF
2. ALL RAISED PANELS AND/OR GLAZING AS SHOWN IN GLAZING DETAILS ON SHEET 5, AND ALL HARDWARE TYPES IN THE IN THE HARDWARE NOTES BELOW MAY BE USED IN ANY DOOR CONFIGURATION.
3. THESE DOORS HAVE BEEN DESIGNED AND TESTED TO TAS 201, 202, AND 203 PROTOCOLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) INCLUDING THE HVHZ PROVISIONS.
4. THIS PRODUCT AS SHOWN HEREIN IS LARGE AND SMALL MISSILE IMPACT RATED, SHUTTERS ARE NOT REQUIRED.
5. WOOD OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED TO TRANSFER LOADS TO THE STRUCTURE.
6. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS INDICATED IN THIS APPROVAL. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.
7. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.
9. A WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
10. THE MERBAU DOORS LISTED IN THIS APPROVAL ARE CONSTRUCTED OF A NATURALLY DURABLE SPECIES (S.G.=0.68, $E=2.6 \times 10^6$ PSI) IN COMPLIANCE WITH FBC CHAPTER 23. OTHER NATURALLY DURABLE WOOD SPECIES OF EQUAL OR GREATER STRENGTH MAY BE SUBSTITUTED FOR ALL WOOD COMPONENTS.
11. MEMBERS NOTCHED AS NEEDED TO FIT HARDWARE.



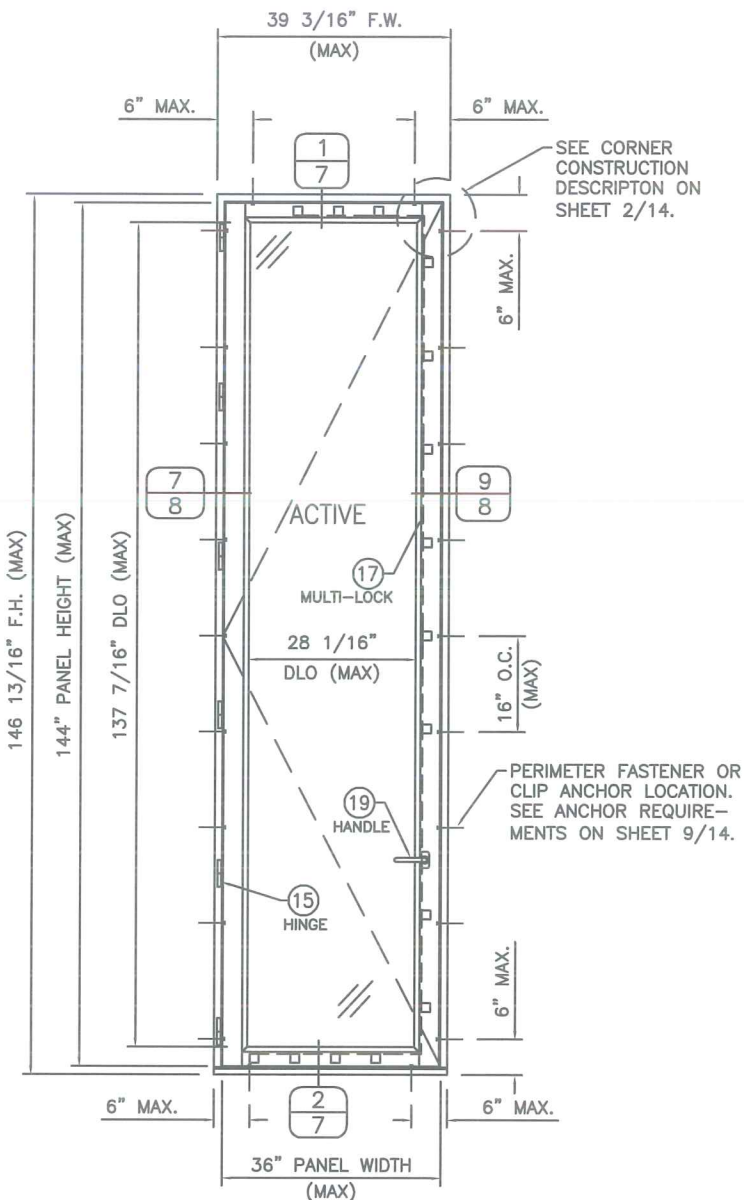
HARDWARE NOTES:

- HINGES - (#15) G-U HARDWARE 5020-SM OR (#16) SIMONSWERK BAKA C2-20WF, LOCATED 6" (MAX) FROM CORNERS OR SPRINGLINE, AND 26.4" O.C. (MAX).
- LOCKS - (#17) SIEGENIA NO. 3/4M5 MULTI-POINT LOCKS WITH LOCKING POINTS AT THE FOLLOWING LOCATIONS:
- HEAD - (1) LOCKING POINT FOR PANEL WIDTHS < 20"
(2) LOCKING POINTS FOR PANEL WIDTHS < 33", AND PANEL HEIGHTS < 120 1/16"
(3) LOCKING POINTS FOR PANEL WIDTHS UP TO 36",
- SILL - (1) LOCKING POINT FOR PANEL WIDTHS < 20"
(3) LOCKING POINTS FOR PANEL WIDTHS < 33", AND PANEL HEIGHTS < 120 1/16"
(4) LOCKING POINTS FOR PANEL WIDTHS UP TO 36"
- JAMBS - (5) LOCKING POINTS FOR PANEL HEIGHTS < 96"
(6) LOCKING POINTS FOR PANEL HEIGHTS < 108",
(7) LOCKING POINTS FOR PANEL HEIGHTS < 126",
(8) LOCKING POINTS FOR PANEL HEIGHTS UP TO 144".



DOUBLE RECTANGULAR DOOR
(EXTERIOR VIEW)

DESIGN PRESSURE
+65/-70 PSF



SINGLE RECTANGULAR DOOR
(EXTERIOR VIEW)

ALTERNATE HARDWARE:

THIS HARDWARE MAY BE USED ON SQUARE DOOR PANELS WITH SIZES UP TO 35 7/16" x 135 3/16".

- HINGES - (#35) LA FLORIDA-INOX, LOCATED 4 1/2" (MAX) FROM CORNERS AND 21" O.C. (MAX).
- LOCKS - (#36) SIEGENIA STRIKE PLATES AND (#37) AGB MULTI-POINT WITH LOCKING POINTS AT THE FOLLOWING LOCATIONS:
- HEAD - (1) LOCKING POINTS FOR PANEL WIDTHS < 20"
(3) LOCKING POINTS FOR PANEL WIDTHS < 33",
(4) LOCKING POINTS FOR PANEL WIDTHS UP TO 35 7/16".
- SILL - (1) LOCKING POINTS FOR PANEL WIDTHS < 20"
(3) LOCKING POINTS FOR PANEL WIDTHS < 33",
(4) LOCKING POINTS FOR PANEL WIDTHS UP TO 35 7/16".
- JAMBS - SAME LOCATIONS AS STANDARD HARDWARE

DATE		5/2/14	
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12/15/17	UPDATED TO 2017 FBC	2	

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WINDOWS + DOORS

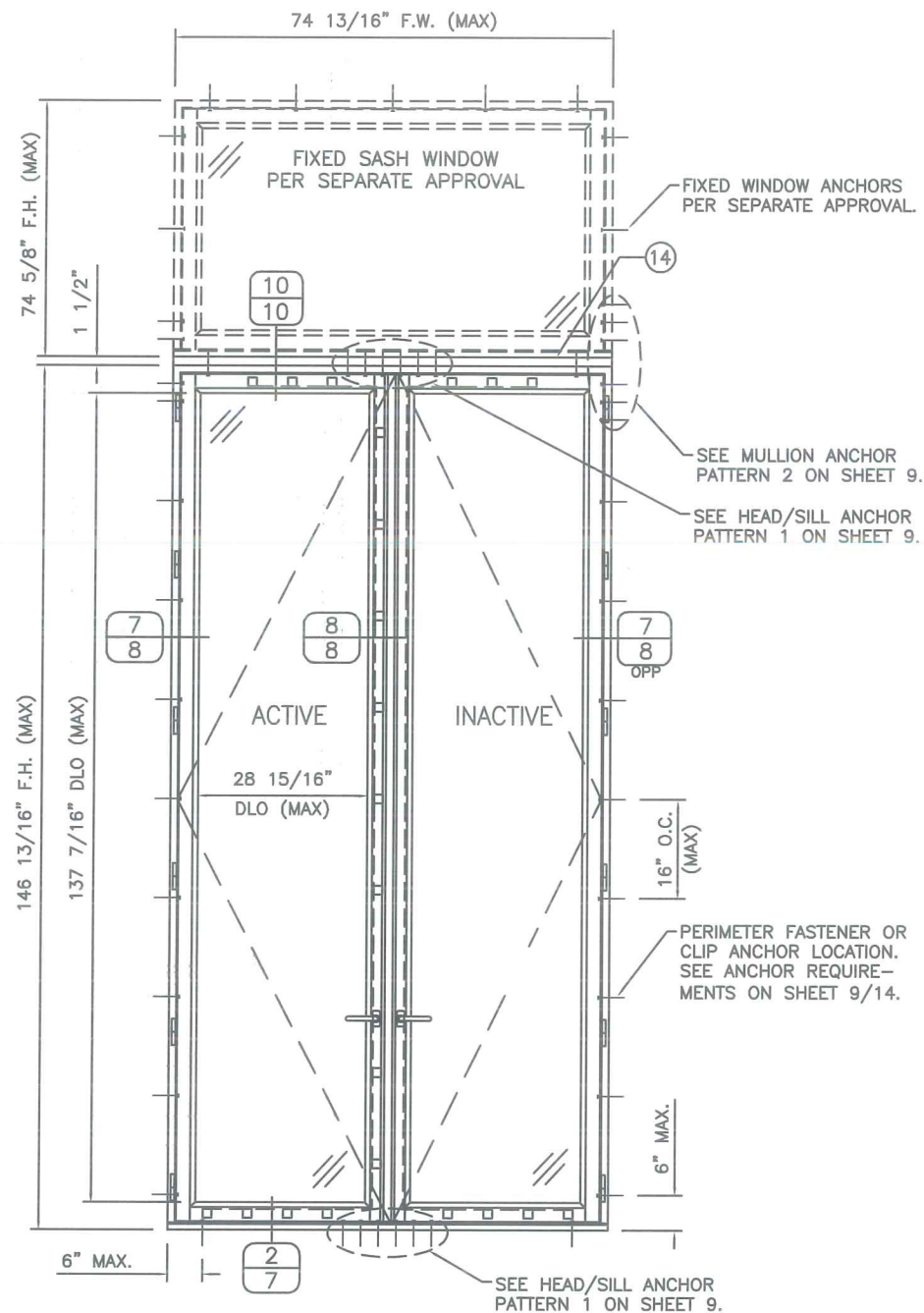
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FL PE# 62354

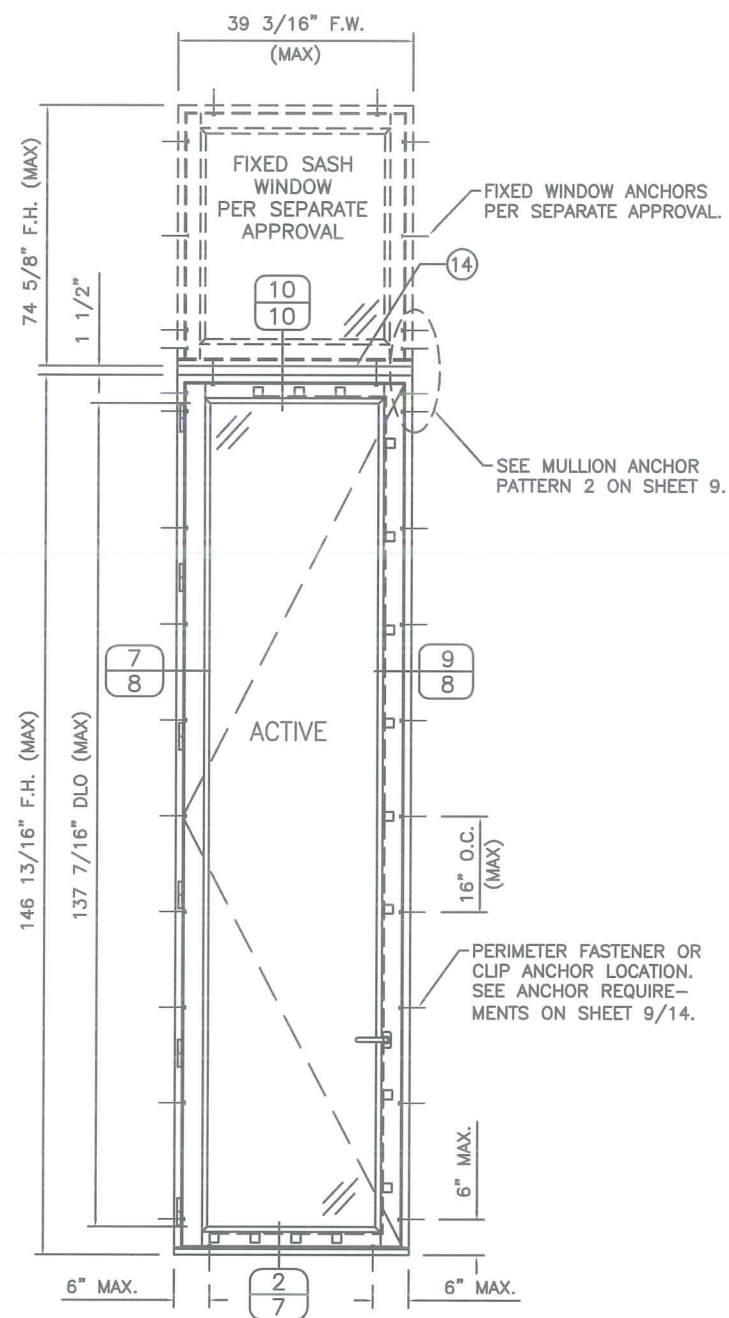
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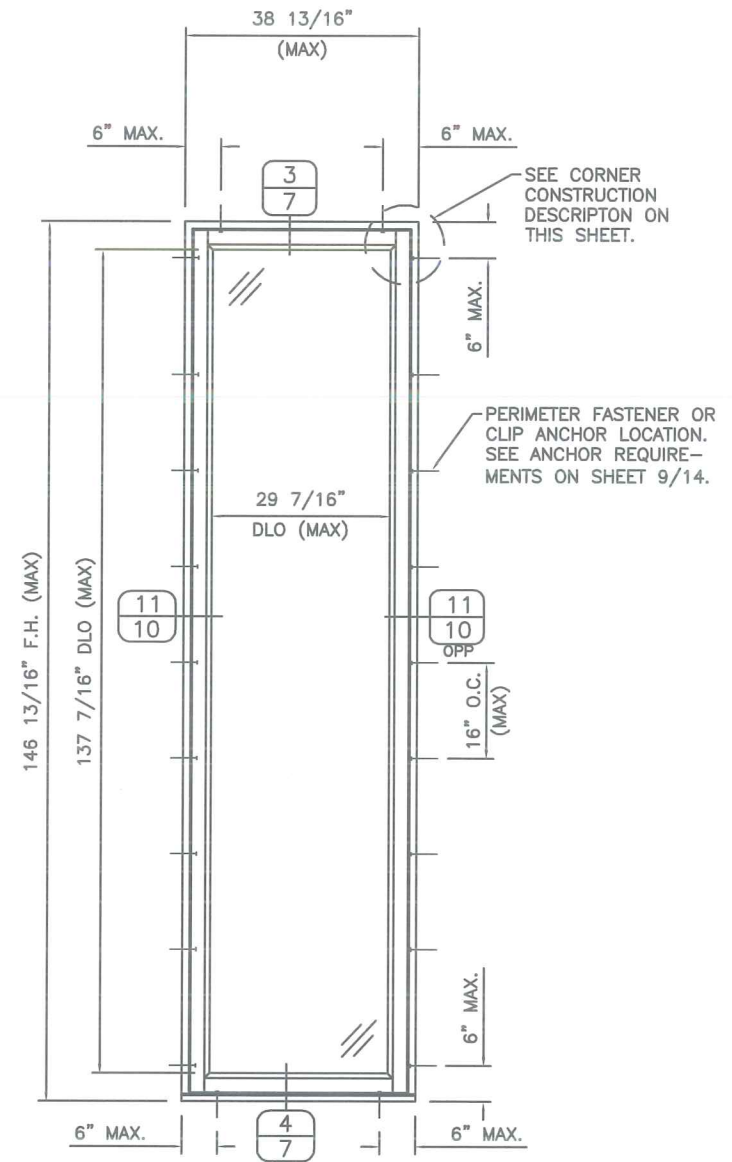
SHEET NO.
1 OF 14



**DOUBLE RECTANGULAR DOOR
WITH TRANSOM
(EXTERIOR VIEW)**



**SINGLE RECTANGULAR DOOR
WITH TRANSOM
(EXTERIOR VIEW)**



**OPTIONAL SINGLE FIXED PANEL
(EXTERIOR VIEW)**

CORNER CONSTRUCTION

FRAME CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2" DIA. x 3 5/16" LONG MERBAU WOOD DOWELS.

PANEL CORNERS (HEIGHT > 120 1/16"): HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (4) 1/2" DIA. x 3 7/16" AND (3) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

PANEL CORNERS (HEIGHT ≤ 120 1/16"): HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (2) 1/2" DIA. x 3 7/16" AND (1) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

LIMITATIONS:

1. LOWER DESIGN PRESSURE (DP) FROM TRANSOM OR DOORS SHALL CONTROL FOR ENTIRE ASSEMBLY.
2. (4) OR (6) ANCHORS TO BE PROVIDED AT HORIZONTAL MULLION END. (SEE MULLION PATTERN 2 ON SHEET 6.)

FIXED PANEL NOTES:

1. ALL APPROVED SINGLE DOOR SHAPES CAN BE INSTALLED AS A FIXED PANEL.

DATE: 5/2/14

DATE	6/12/15
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NO.	1

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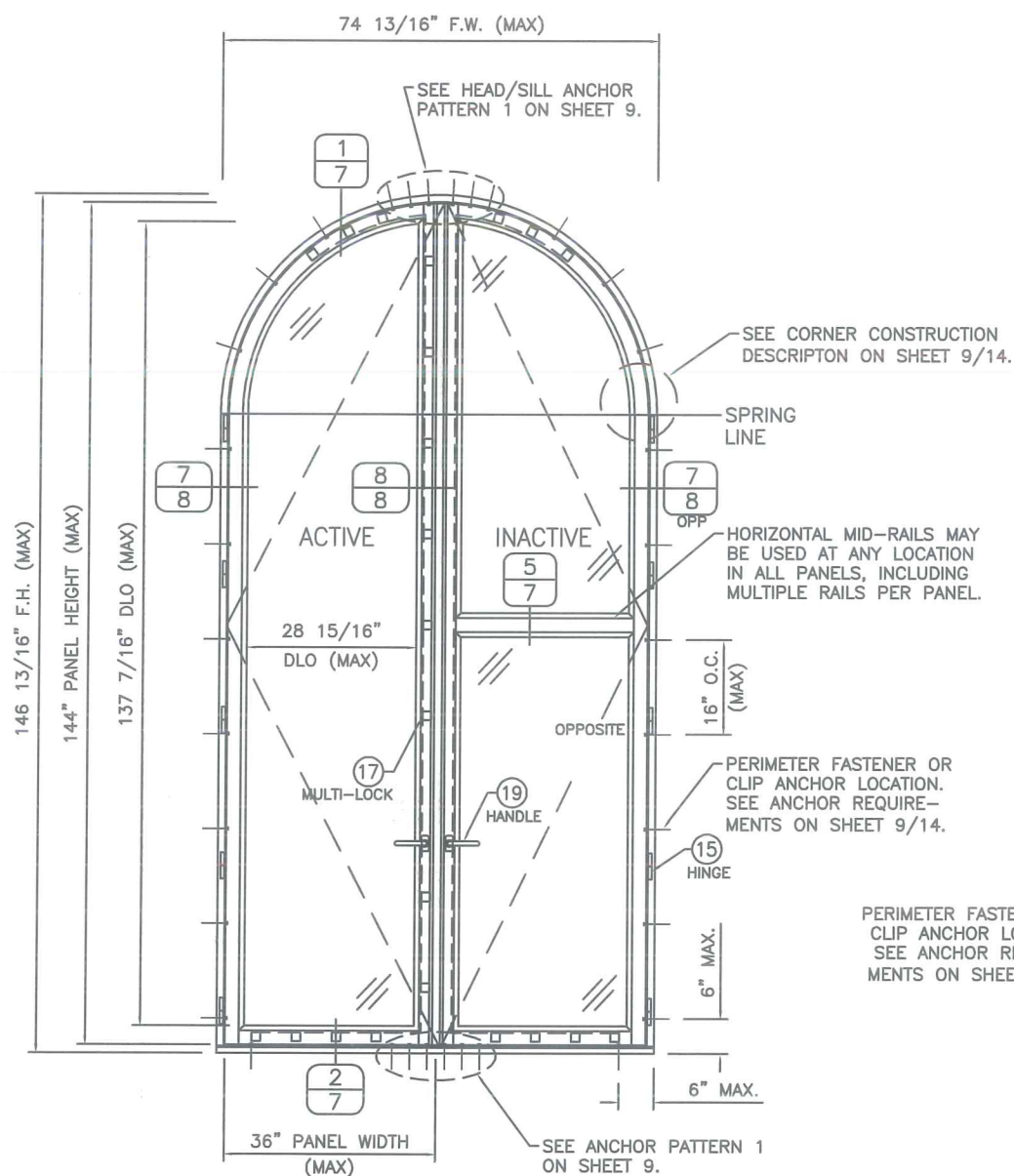
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FL PE# 62354

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(COAR# 27194)
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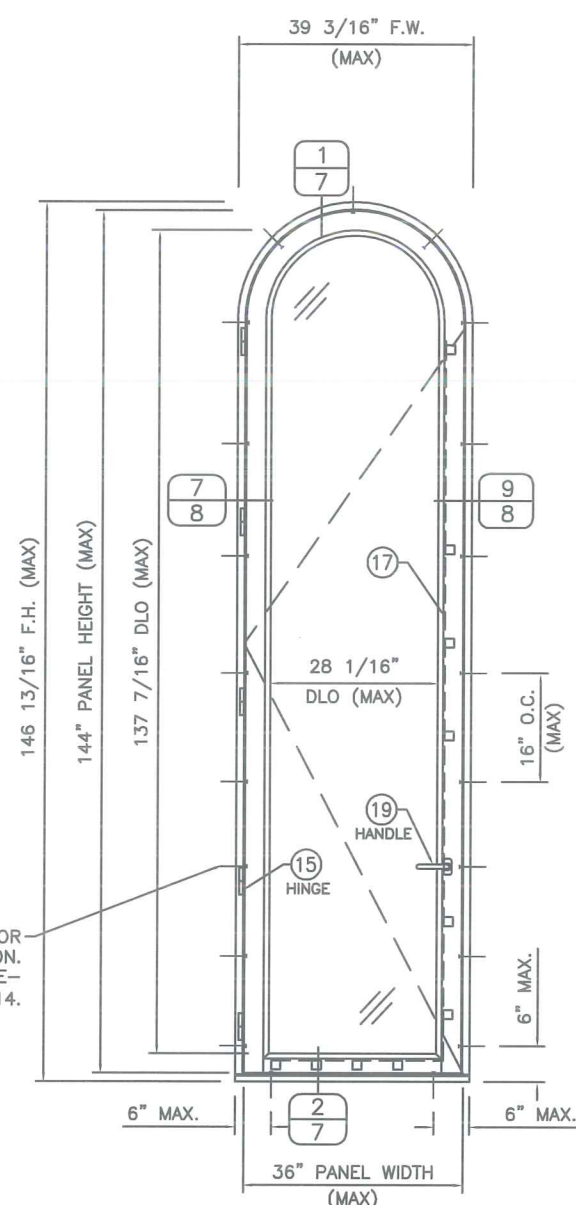
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EURO DOOR

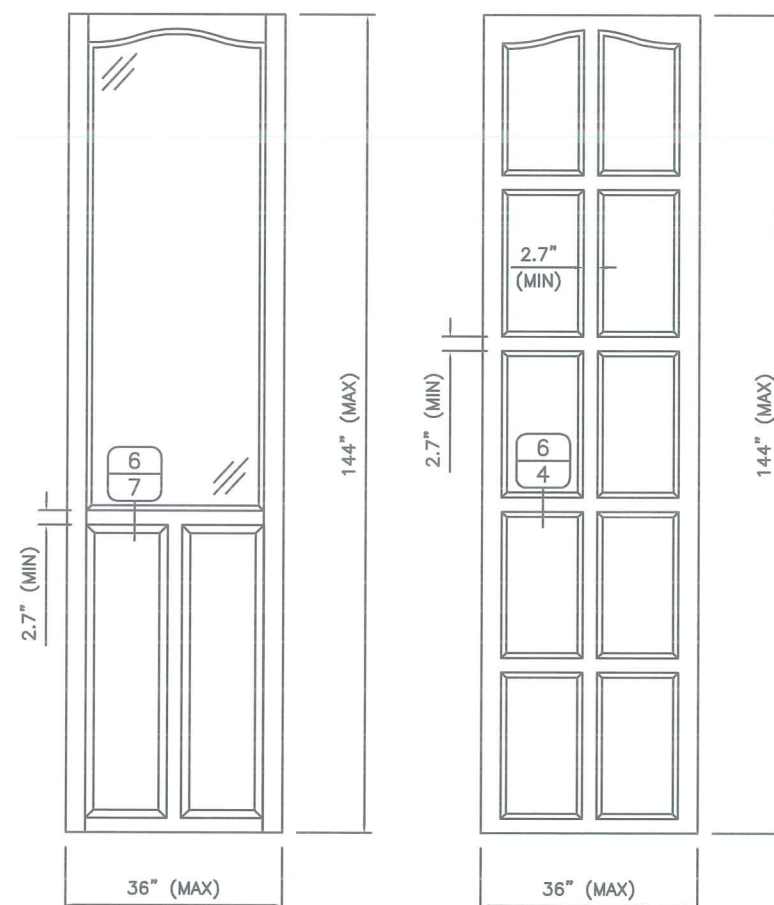
SHEET NO.
2 OF 14



DOUBLE HALF ROUND DOOR
(EXTERIOR VIEW)



SINGLE HALF ROUND DOOR
(EXTERIOR VIEW)



PARTIAL RAISED PANELS WITH
STANDARD MID-RAILS
(EXTERIOR VIEW)

CORNER CONSTRUCTION

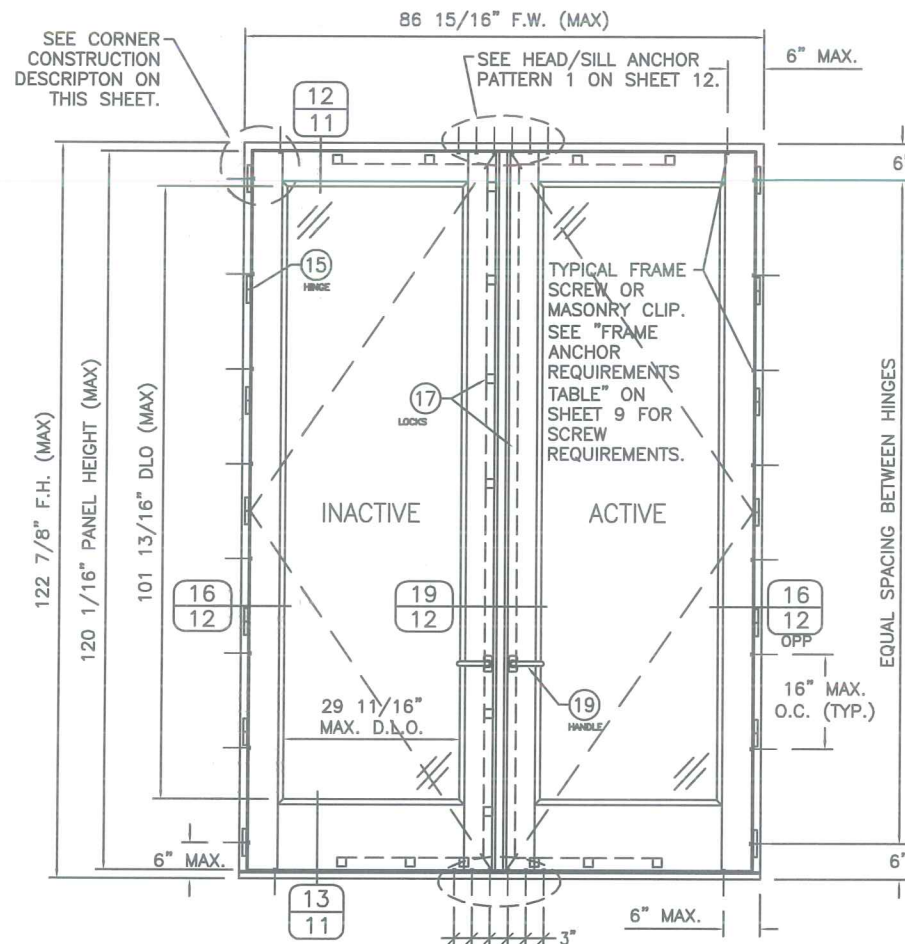
FRAME CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2" DIA. x 3 5/16" LONG MERBAU WOOD DOWELS.

PANEL CORNERS (HEIGHT > 120 1/16"): HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (4) 1/2" DIA. x 3 7/16" AND (3) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

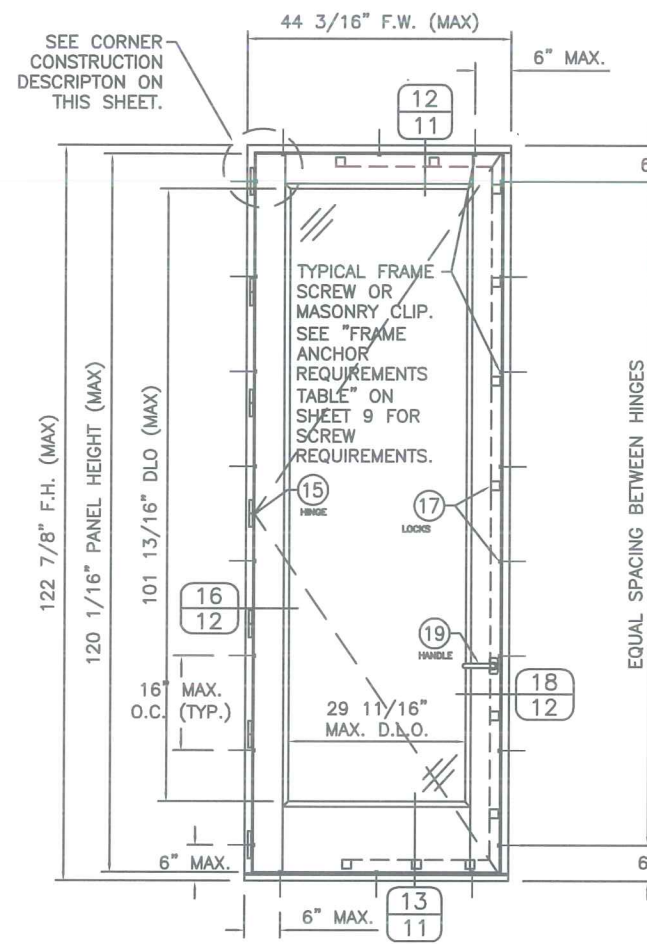
PANEL CORNERS (HEIGHT ≤ 120 1/16"): HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (2) 1/2" DIA. x 3 7/16" AND (1) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

1. TOP & MID RAILS MAY BE OF ANY CONFIGURATION PROVIDING THE SMALLEST CROSS SECTION OF RAILS IS EQUAL TO OR LARGER THAN THAT DETAILED IN DRAWINGS.
2. MULTIPLE MID RAIL (BOTH HORIZONTAL & VERTICAL) MAY BE USED WITH THESE PANELS.
3. STANDARD PARTIAL PANEL CONDITION IS SHOWN ABOVE. OTHER PARTIAL PANEL CONFIGURATIONS ARE ALSO PART OF THIS APPROVAL, PROVIDING THEY ARE SIMILAR IN CONSTRUCTION TO THAT SHOWN ABOVE.
4. PARTIAL AND FULL PANELS ARE APPROVED FOR ALL DOOR SHAPES.

DATE: 5/2/14	
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DRAWING NO. EURO DOOR	
SHEET NO. 3 OF 14	

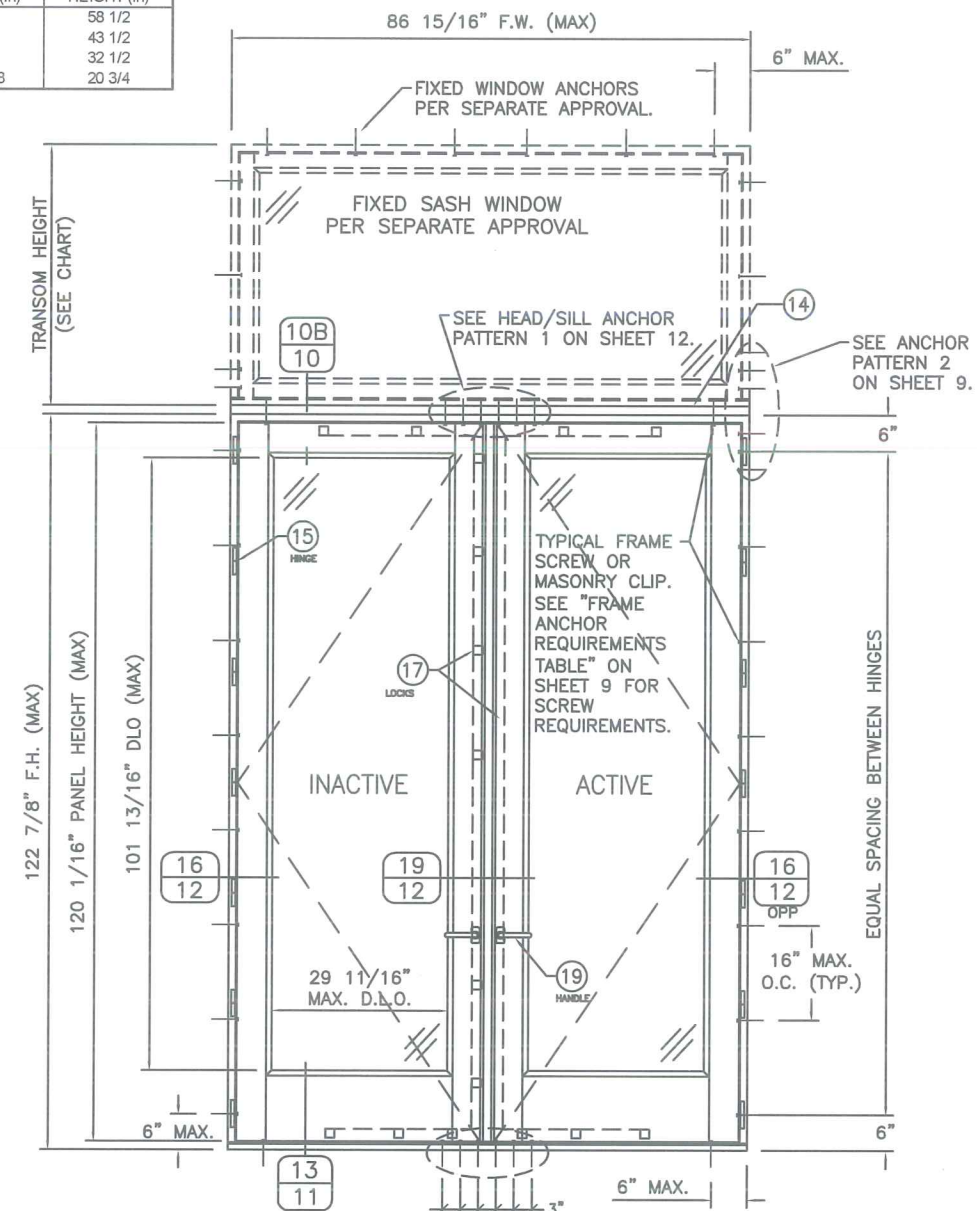


**DOUBLE RECTANGULAR DOOR
(EXTERIOR VIEW)**



**SINGLE RECTANGULAR DOOR
(EXTERIOR VIEW)**

DOOR FRAME HEIGHT (in)	MAX TRANSOM HEIGHT (in)
84	58 1/2
96	43 1/2
108	32 1/2
122 7/8	20 3/4



**DOUBLE RECTANGULAR DOOR
WITH TRANSOM
(EXTERIOR VIEW)**

CORNER CONSTRUCTION

FRAME CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2\" DIA. x 3 5/16\" LONG MERBAU WOOD DOWELS.

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LIMITATIONS:

1. LOWER DESIGN PRESSURE (DP) FROM TRANSOM OR DOORS SHALL CONTROL FOR ENTIRE ASSEMBLY.
2. (4) OR (6) ANCHORS TO BE PROVIDED AT HORIZONTAL MULLION END. (SEE MULLION PATTERN 2 ON SHEET 6.)

DATE: 5/2/14

DATE: 6/12/15

REVISION DESCRIPTION

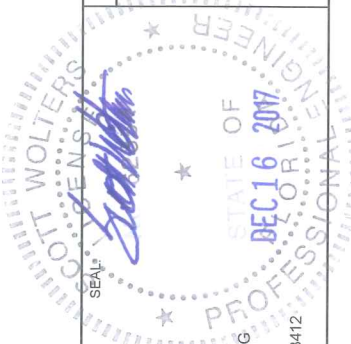
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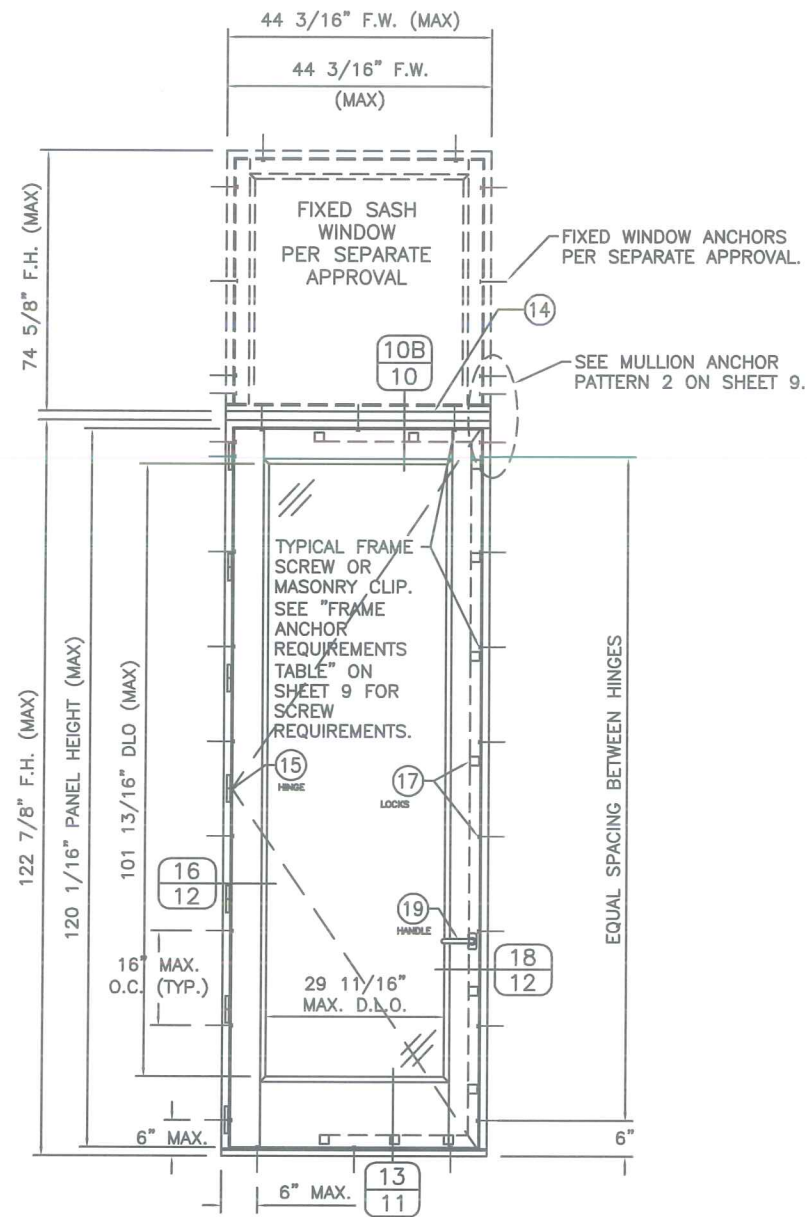
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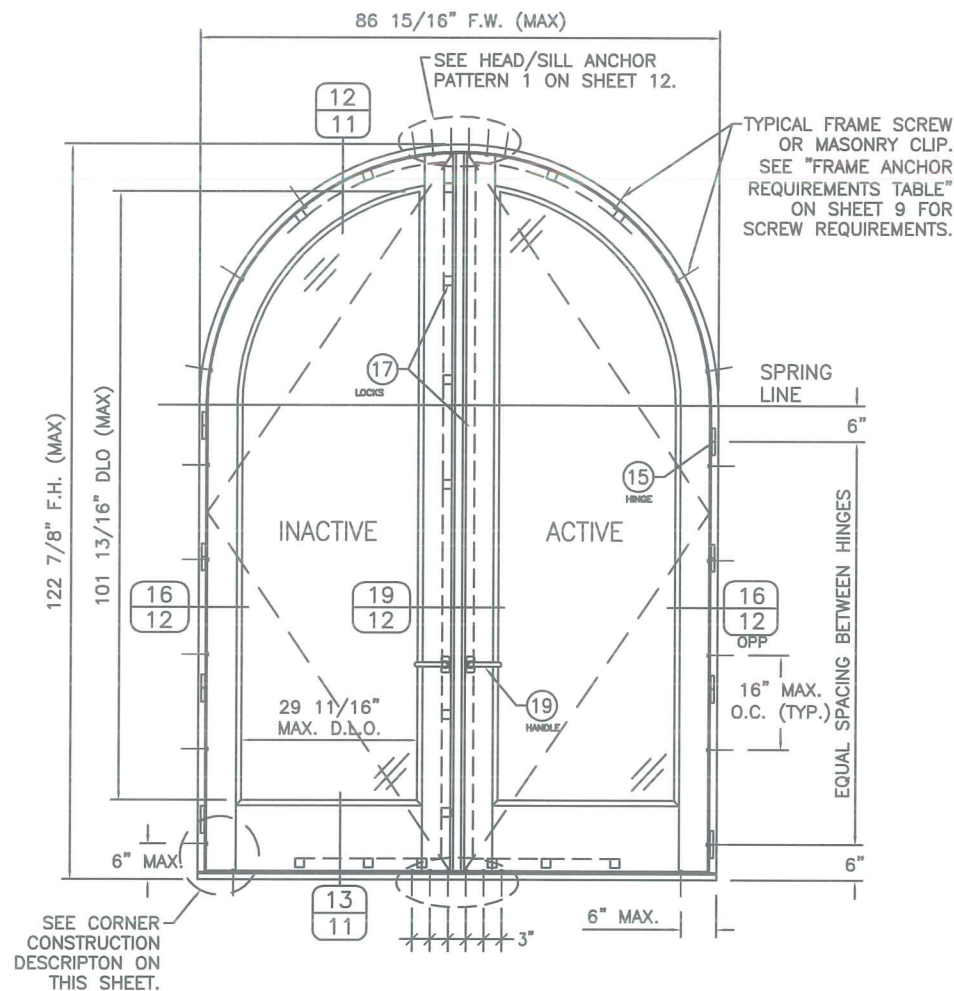
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DRAWING NO.
EURO DOOR

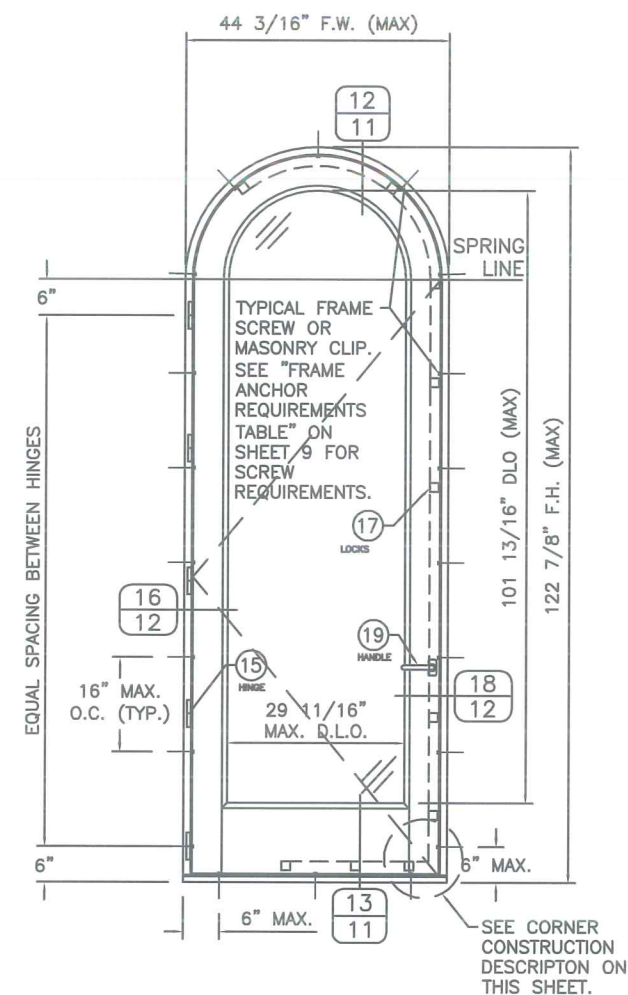
SHEET NO.
4 OF 14



**SINGLE RECTANGULAR DOOR
WITH TRANSOM
(EXTERIOR VIEW)**



**DOUBLE HALF ROUND DOOR
(EXTERIOR VIEW)**



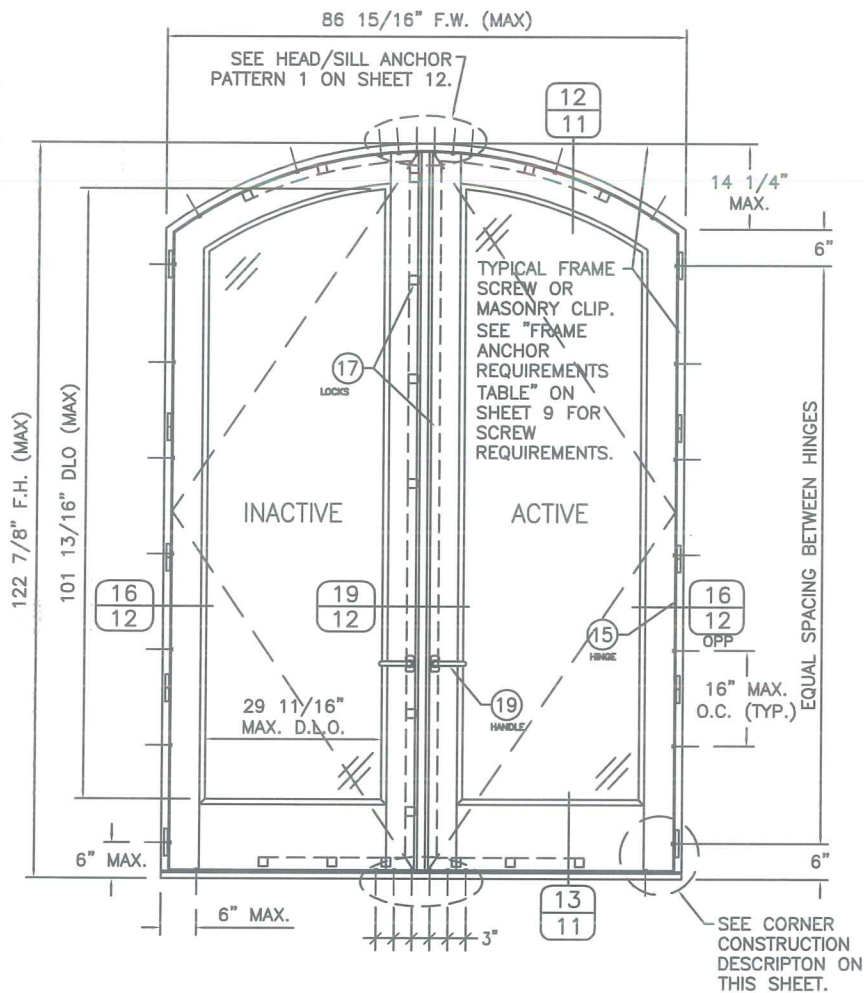
**SINGLE HALF ROUND DOOR
(EXTERIOR VIEW)**

CORNER CONSTRUCTION

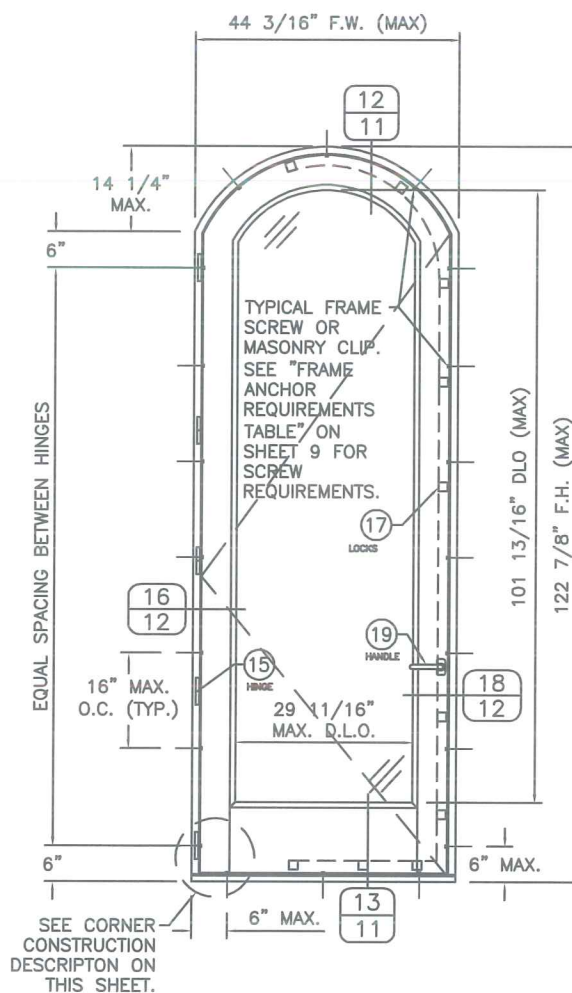
FRAME CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2" DIA. x 3 5/16" LONG MERBAU WOOD DOWELS.

PANEL CORNERS: HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (2) 1/2" DIA. x 3 7/16" AND (1) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

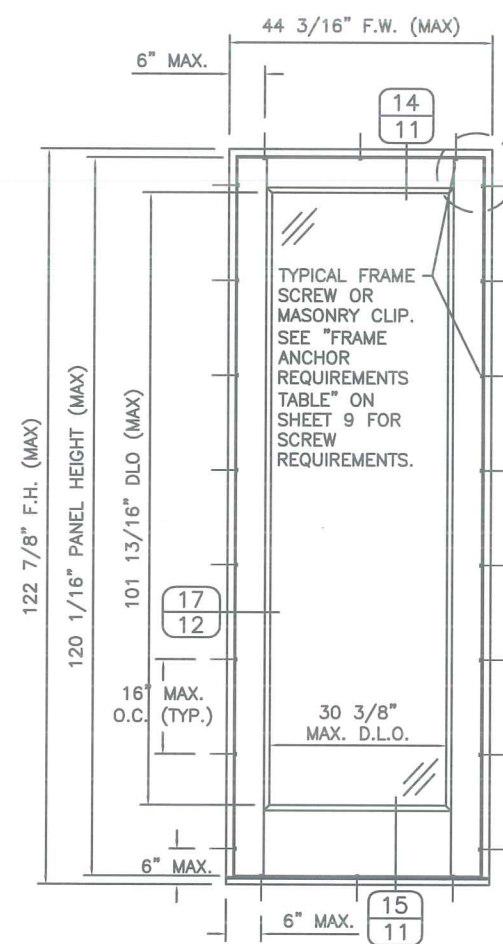
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NO.	1
REVISION DESCRIPTION	UPDATED TO 2014 FBC
DATE	6/12/15
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SHEET NO.	5 OF 14



**DOUBLE ARCH TOP DOOR
(EXTERIOR VIEW)**



**SINGLE ARCH TOP DOOR
(EXTERIOR VIEW)**



**OPTIONAL SINGLE FIXED PANEL
(EXTERIOR VIEW)**

CORNER CONSTRUCTION

FRAME CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2" DIA. x 3 5/16" LONG MERBAU WOOD DOWELS.

PANEL CORNERS: HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (2) 1/2" DIA. x 3 7/16" AND (1) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

FIXED PANEL NOTES:

1. ALL APPROVED SINGLE DOOR SHAPES CAN BE INSTALLED AS A FIXED PANEL.

DATE: 5/2/14

NO.	REVISION DESCRIPTION	DATE
1	UPDATED TO 2014 FBC	6/12/15

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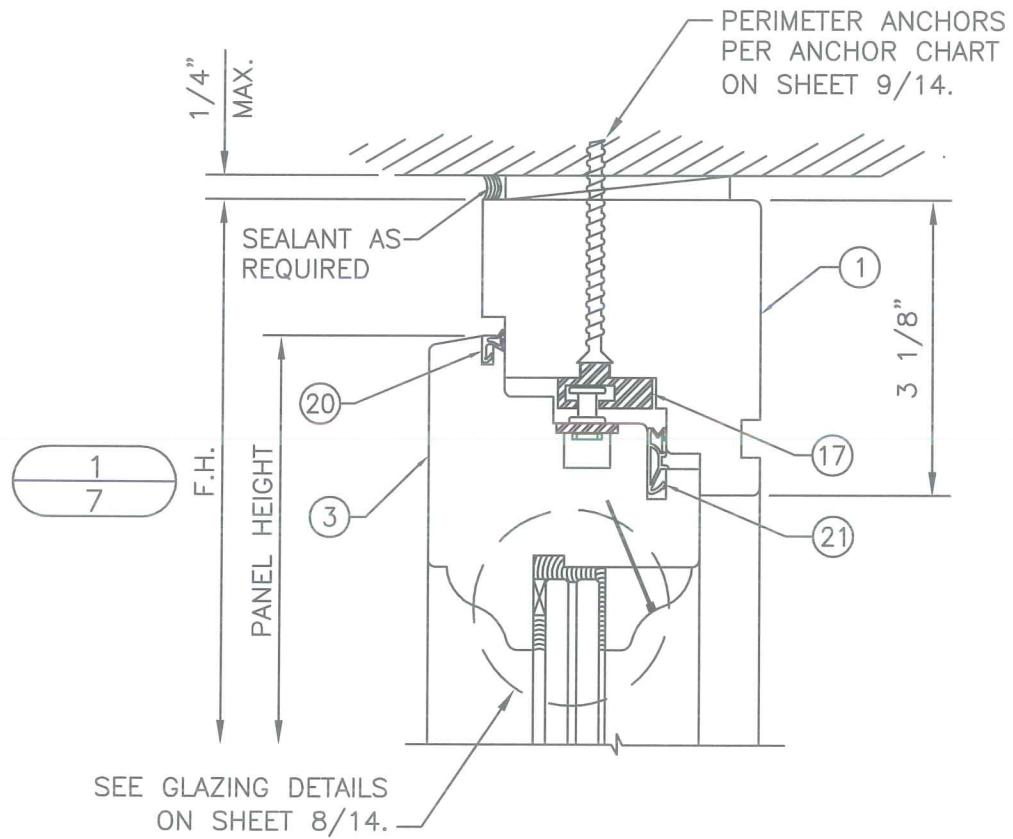


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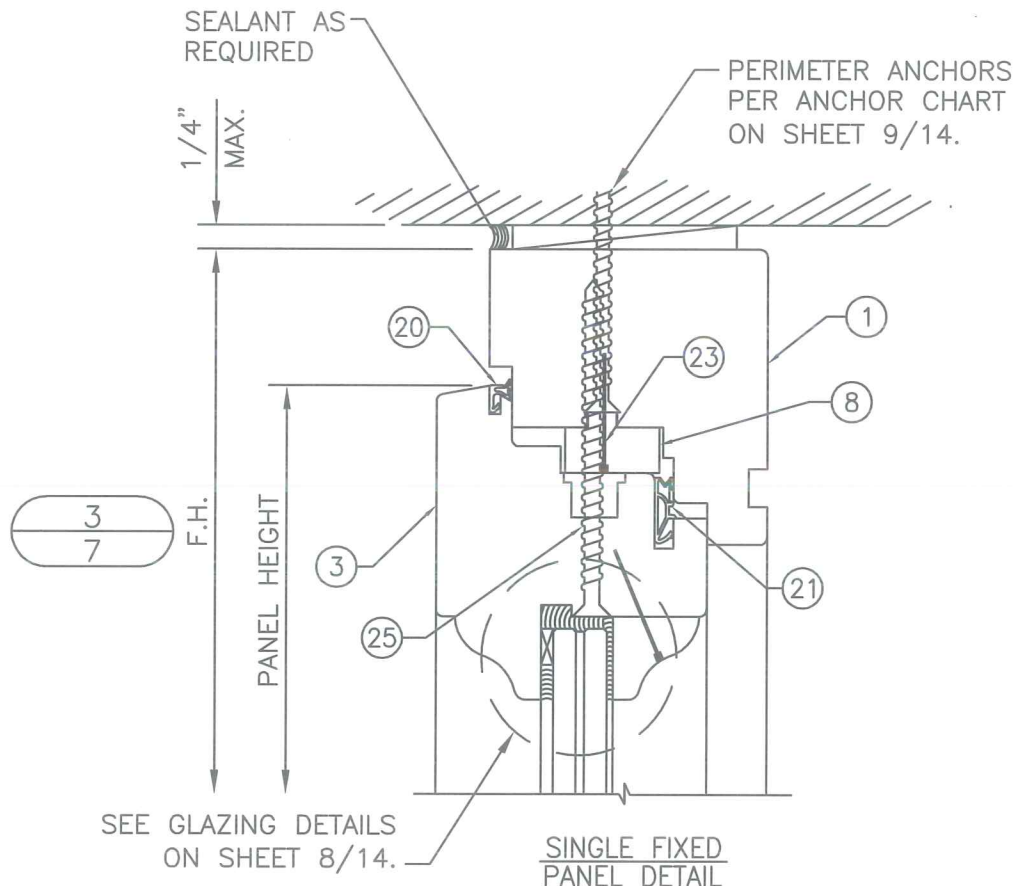
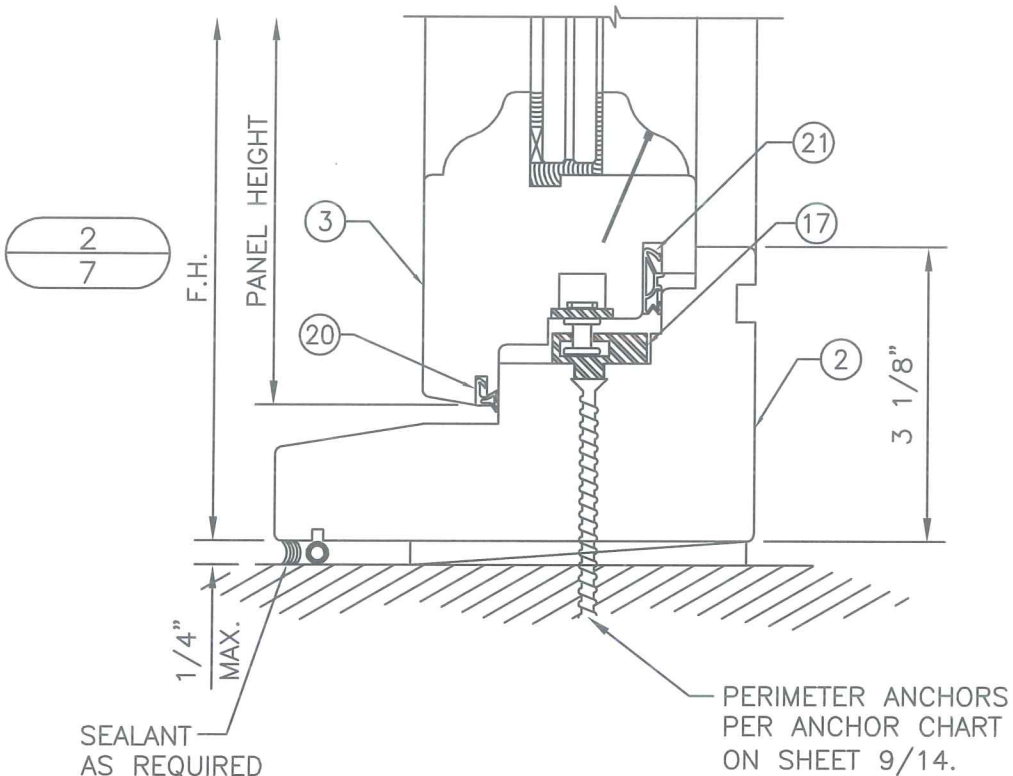
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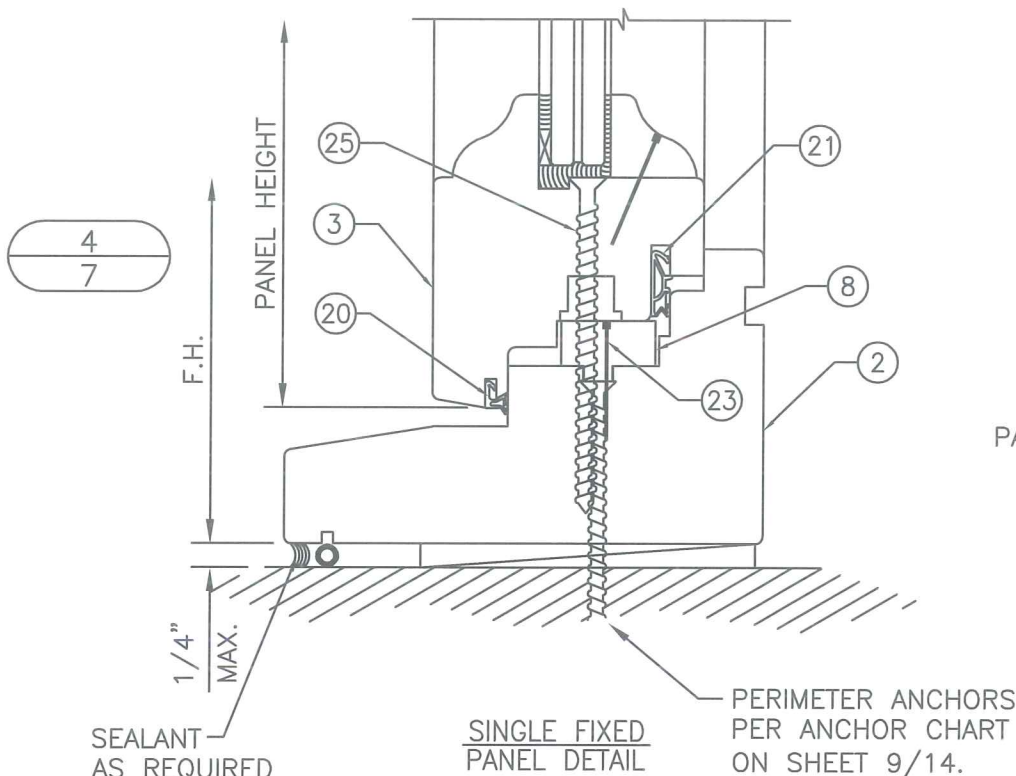
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EXTERIOR



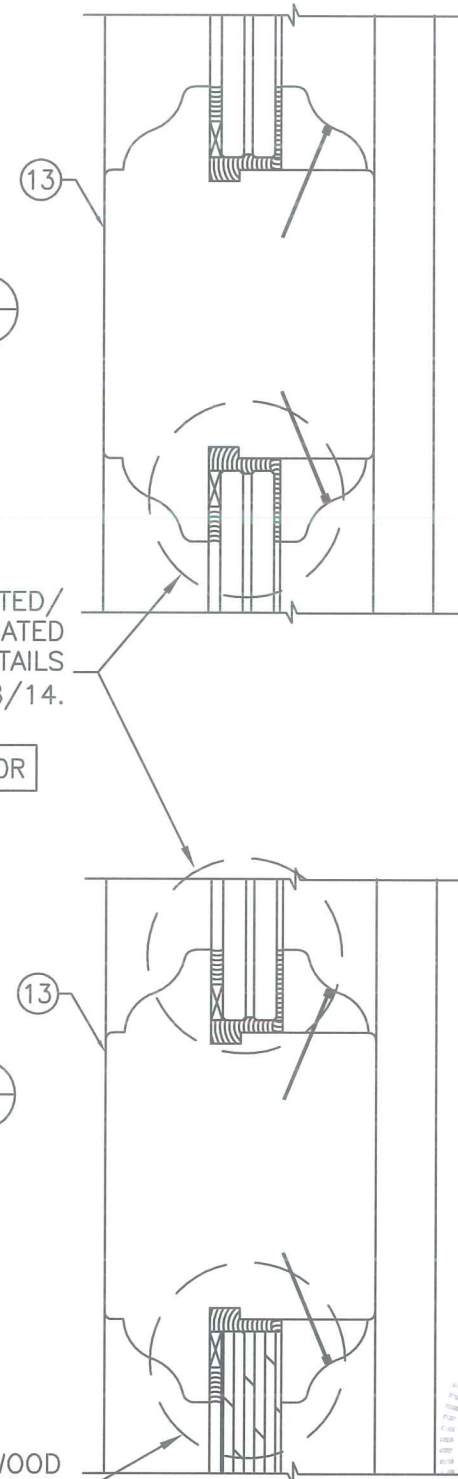
EXTERIOR



SEE LAMINATED/
INSULATED LAMINATED
GLAZING DETAILS
ON SHEET 8/14.

EXTERIOR

SEE PARTIAL WOOD
PANEL GLAZING DETAILS
ON SHEET 8/14.



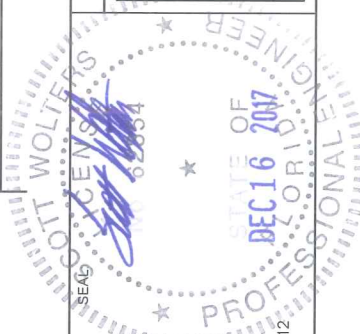
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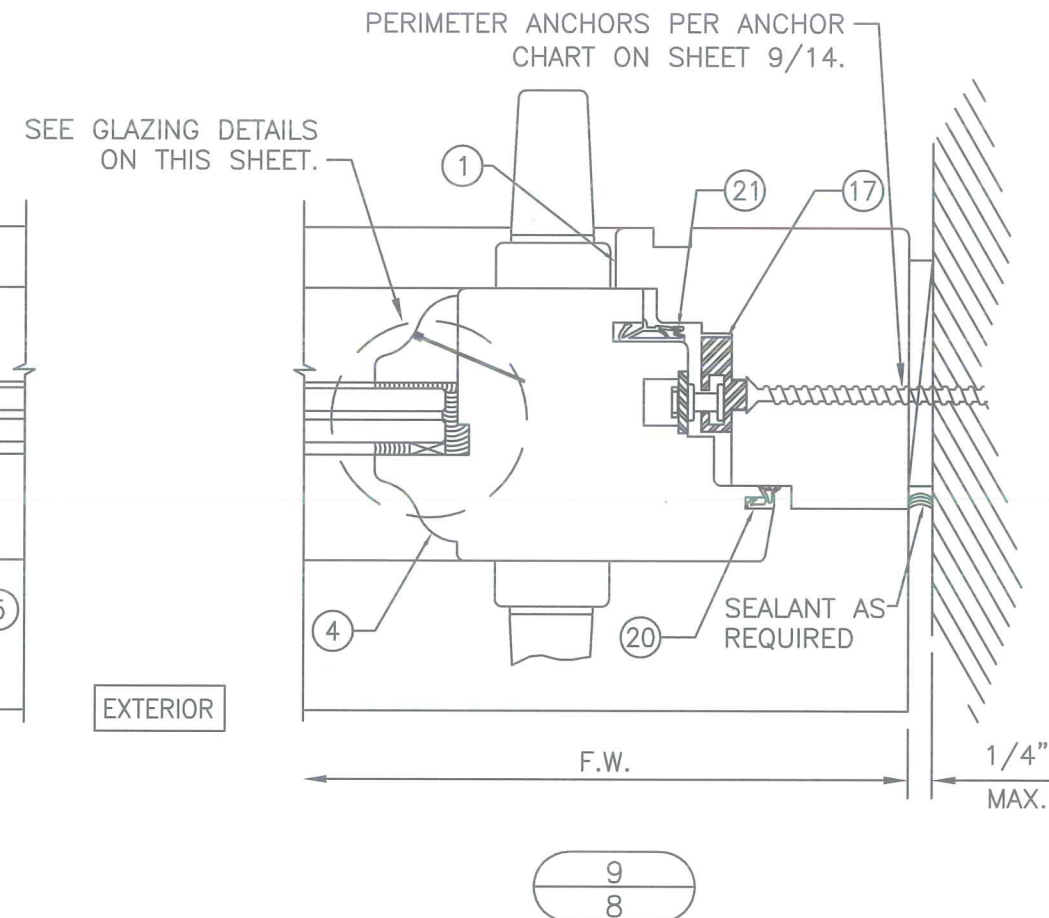
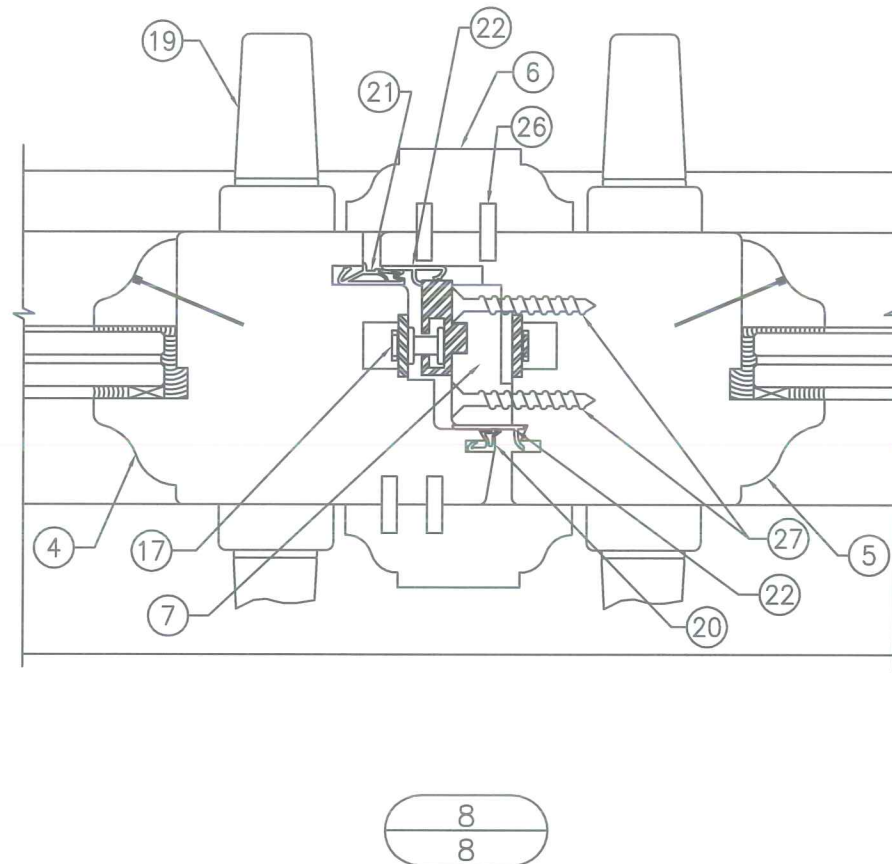
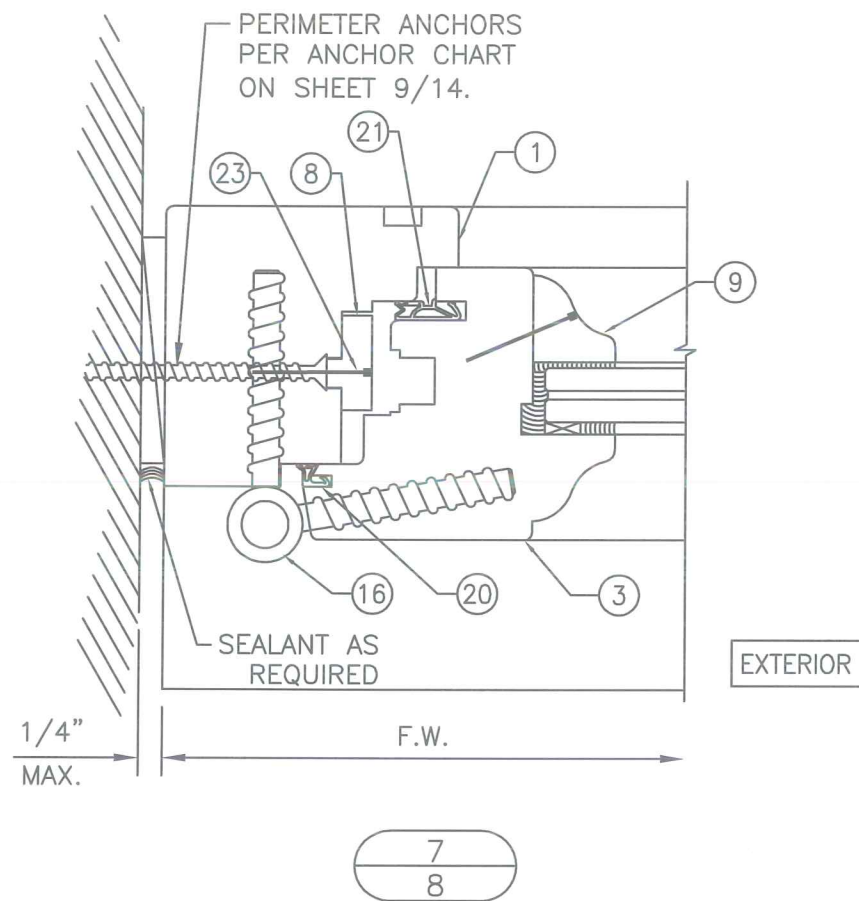


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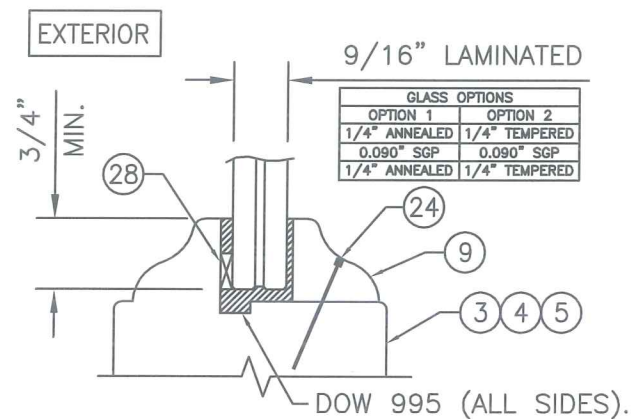
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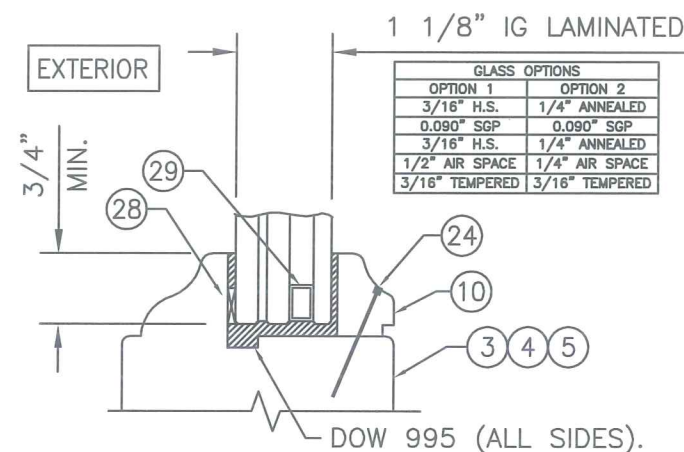
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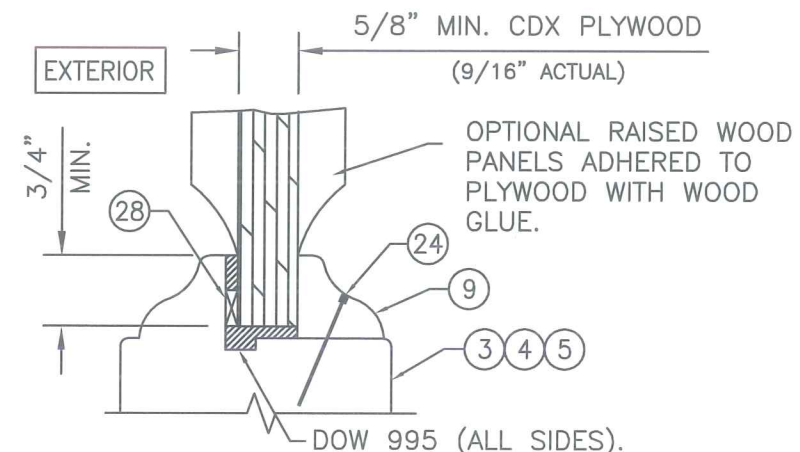
GLAZING DETAILS



9/16" LAMINATED GLASS
TYPE A



1 1/8" INSULATED LAMINATED GLASS
TYPE B



PARTIAL WOOD PANEL
TYPE C

DATE: 5/2/14

DATE	REVISION DESCRIPTION	NO.
6/12/15	UPDATED TO 2014 FBC	1

WOOD EUROPEAN SERIES GLAZED OUTSWING FRENCH DOORS (MERBAU)

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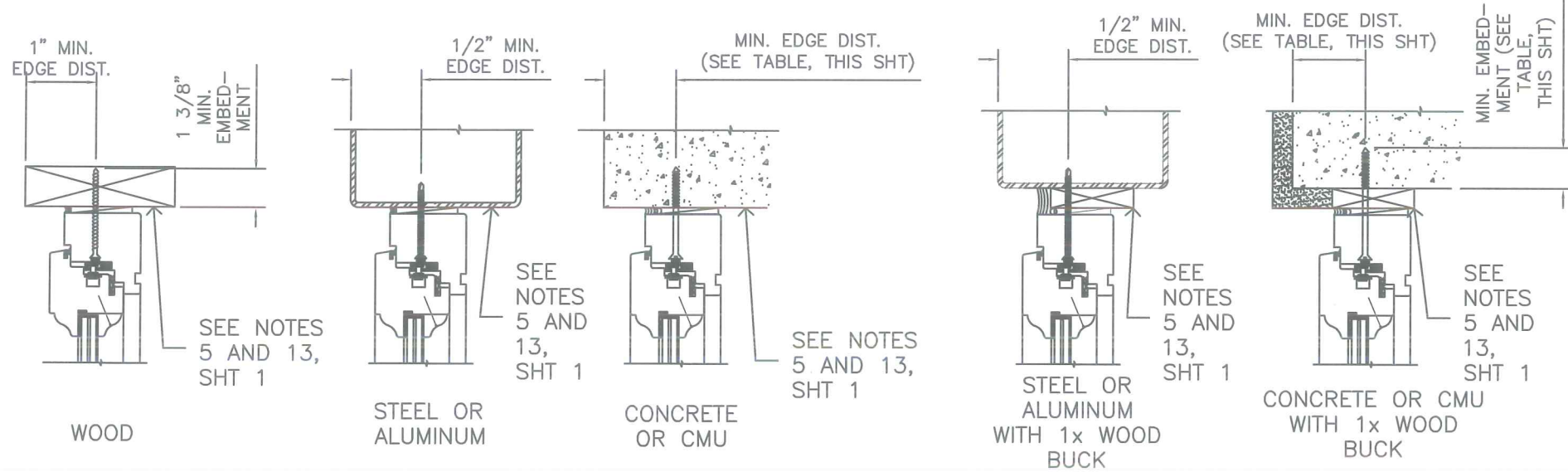
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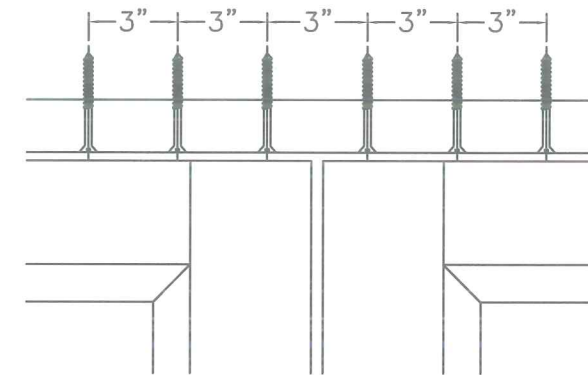


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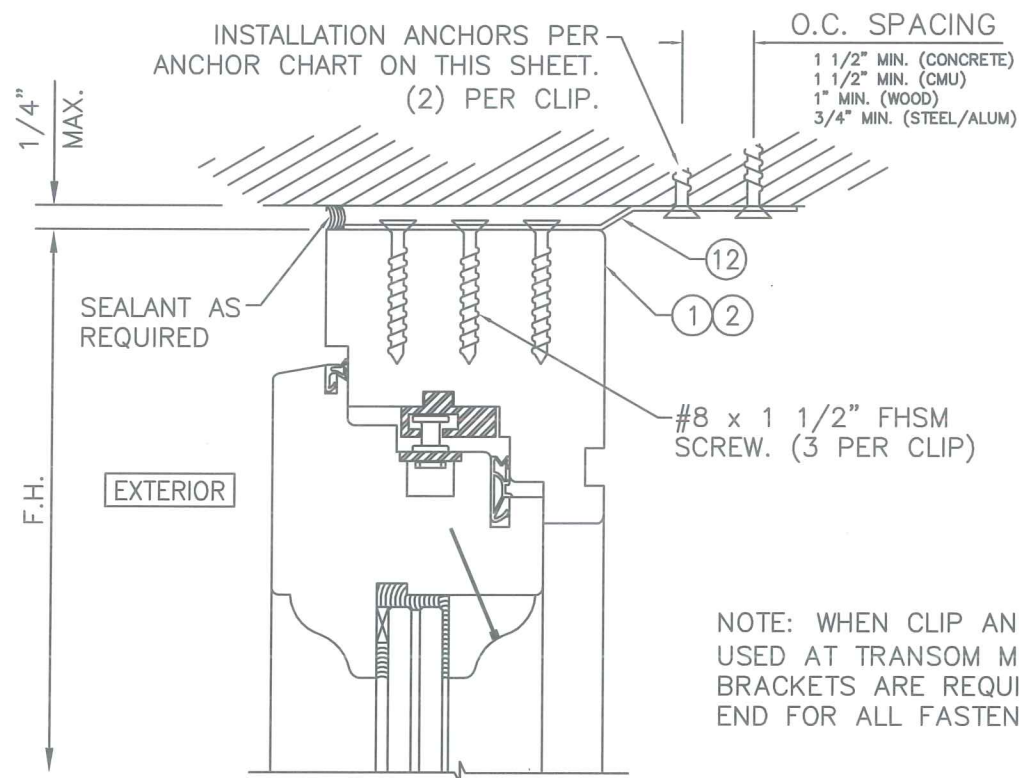
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TYPICAL ANCHOR CONDITIONS

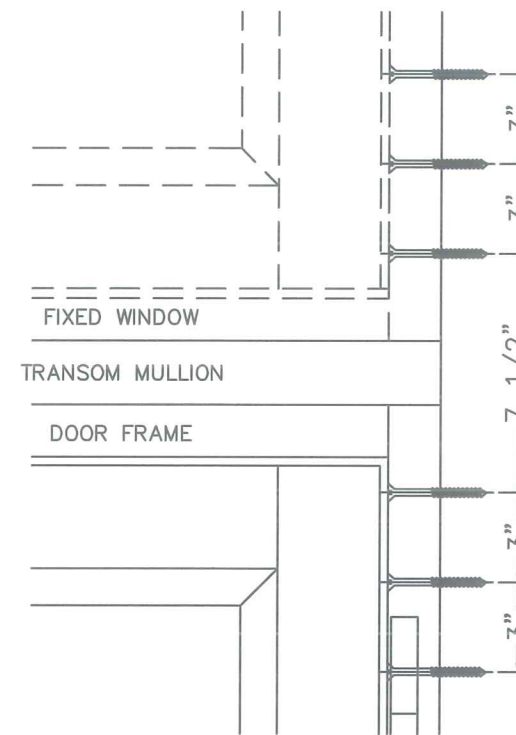


HEAD ANCHOR PATTERN 1
(SILL SIMILAR)

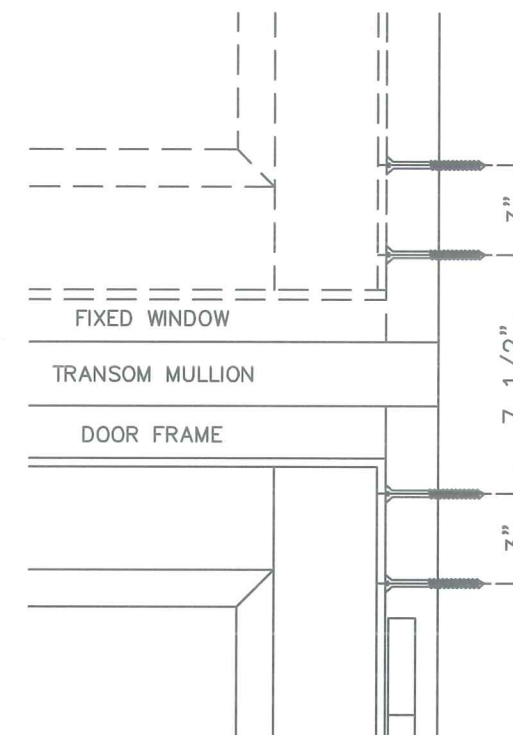


OPTIONAL CLIP ANCHOR DETAIL
(SILL AND JAMBS SIMILAR)

NOTE: WHEN CLIP ANCHORS ARE USED AT TRANSOM MULLIONS, (6) BRACKETS ARE REQUIRED AT EACH END FOR ALL FASTENER TYPES.



HORIZONTAL MULLION
ANCHOR PATTERN 2
(CMU AND WOOD)



HORIZONTAL MULLION
ANCHOR PATTERN 2
(CONCRETE AND METAL)

INSTALLATION ANCHOR REQUIREMENTS TABLE

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	CONCRETE OR GROUT-FILLED CMU (2850 PSI MIN)	1/4" ELCO COATED CARBON STEEL ULTRACON OR AGGRE-GATOR 300S	1 3/4"	2 1/2"
B	CONCRETE OR GROUT-FILLED CMU (2000 PSI MIN)	1/4" ITW COATED CARBON STEEL TAPCON	1 1/2"	3"
C	CONCRETE (3000 PSI MIN)	1/4" ITW 410 STAINLESS TAPCON	1 3/4"	2 1/2"
D	CONCRETE (3000 PSI MIN)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
E	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
F	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	#12 GRADE 5 WOOD SCREW	1 3/8"	1"
G	16 GAUGE (0.060") MIN. STEEL STUD 33 KSI YIELD MIN.	#12-24 ITW TEKS SELF-DRILLING SCREW	FULL	1/2"
H	1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 33 KSI MIN.	#12 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL	1/2"

DATE: 5/2/14

DATE: 6/12/15

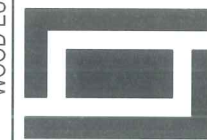
REVISION DESCRIPTION

NO. 1

WOOD EUROPEAN SERIES GLAZED OUTSWING FRENCH DOORS (MERBAU)

LUXBAUM, LLC
WINDOWS + DOORS

2400 CENTREPARK WEST DR, SUITE 150
WEST PALM BEACH, FL 33409
Ph: (561) 684-1500
www.luxbaum.com

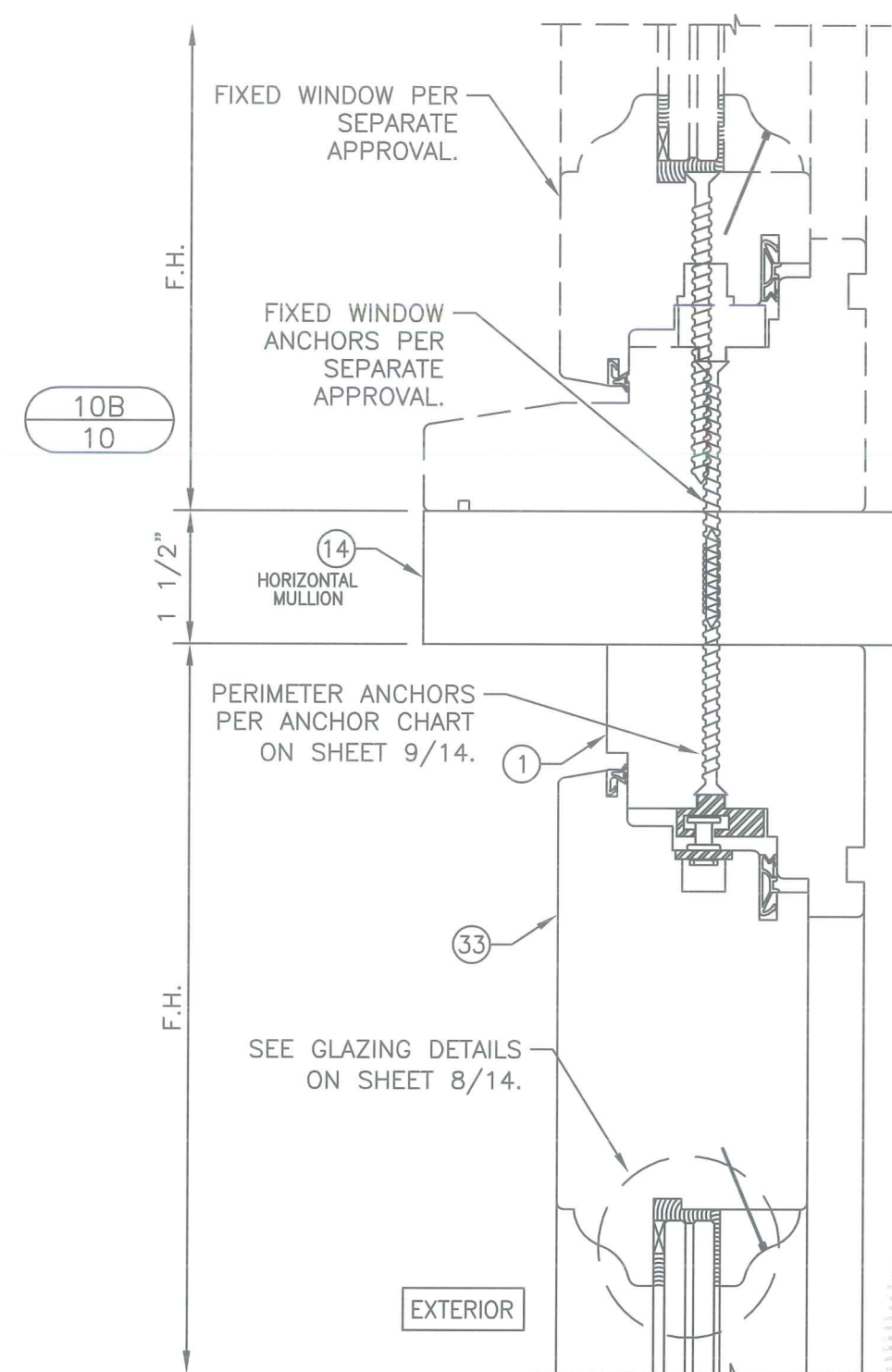
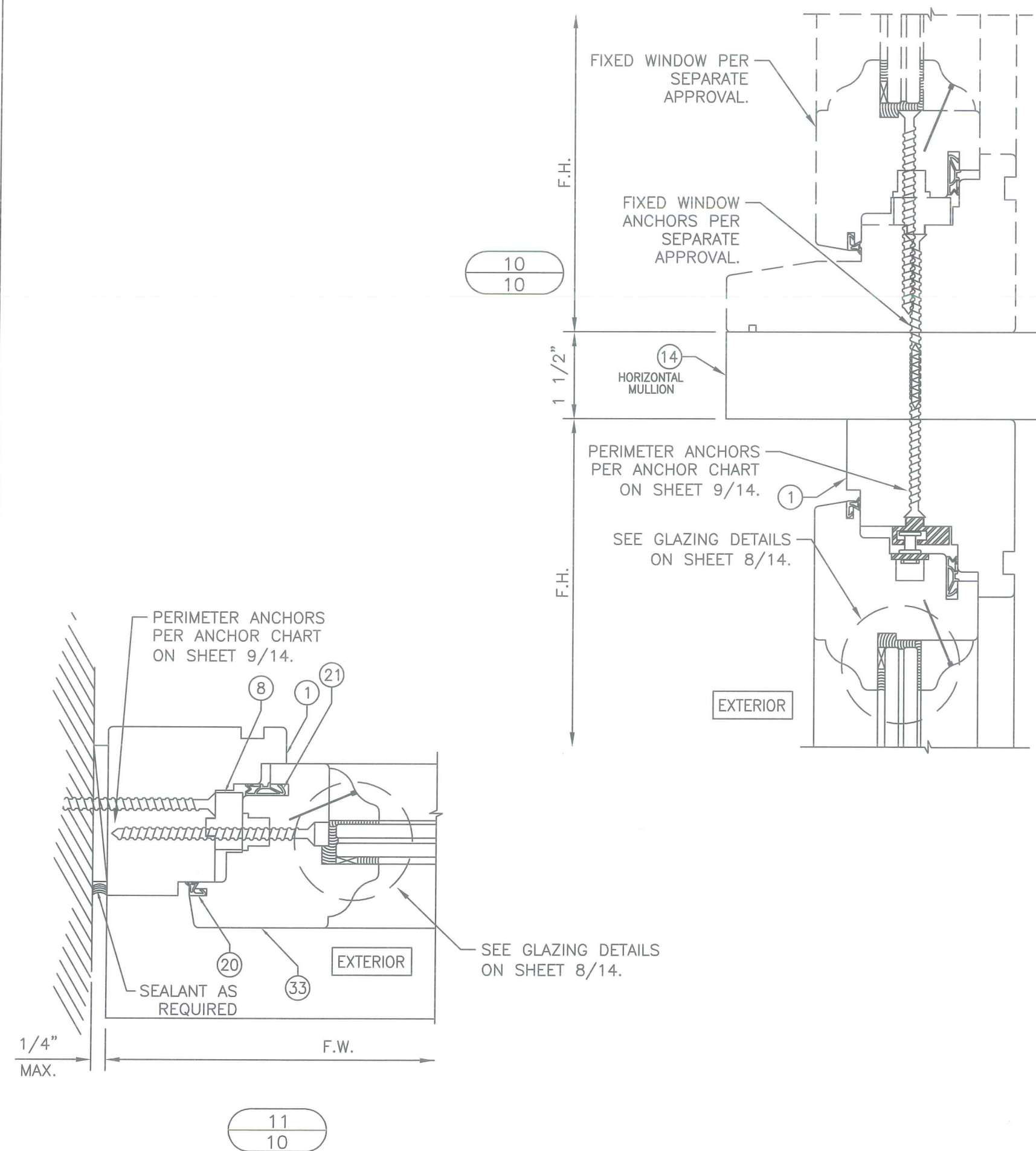


DRAWING NO.

EURO DOOR

SHEET NO.

9 OF 14



DATE: 5/2/14

NO.	REVISION DESCRIPTION	DATE
1	UPDATED TO 2014 FBC	6/12/15

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SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

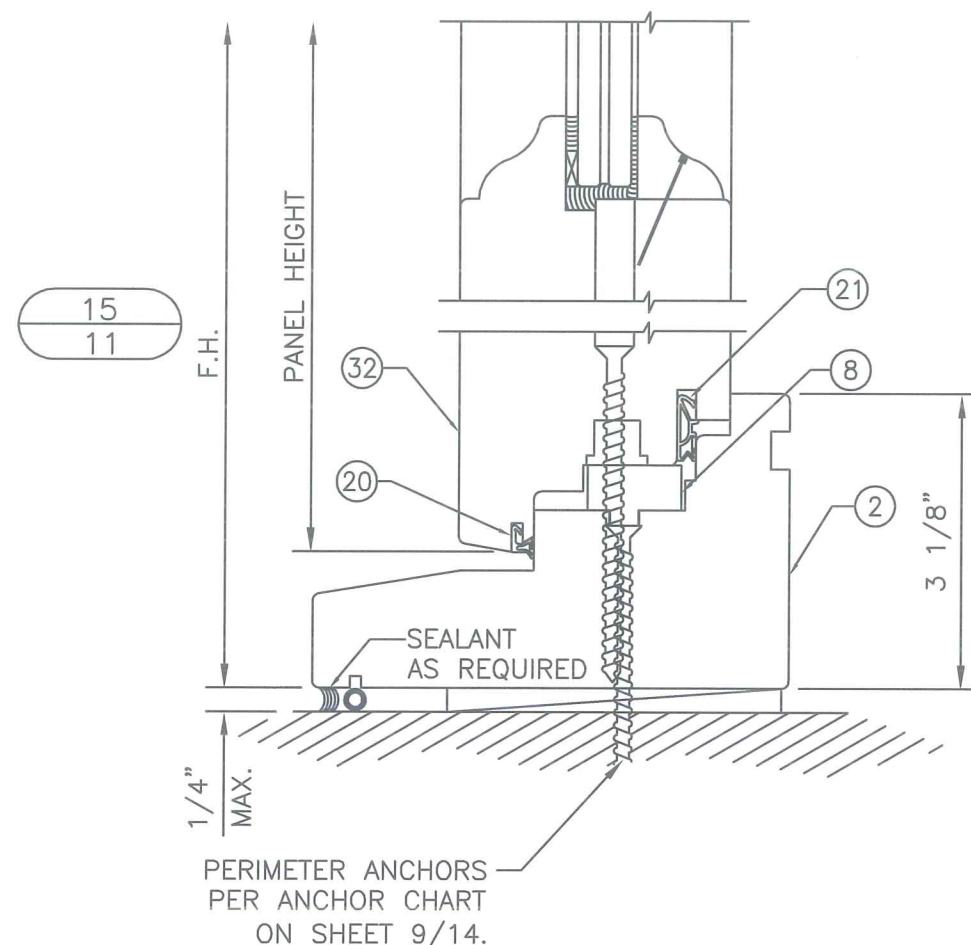
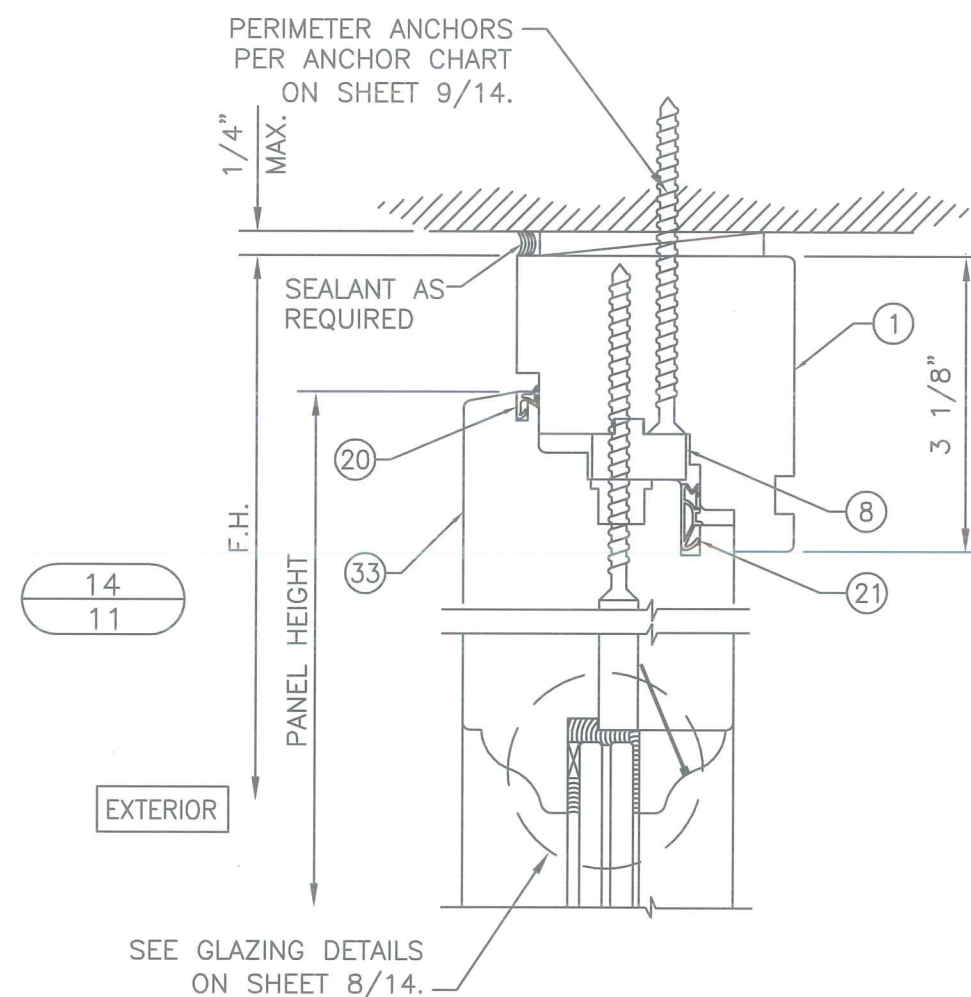
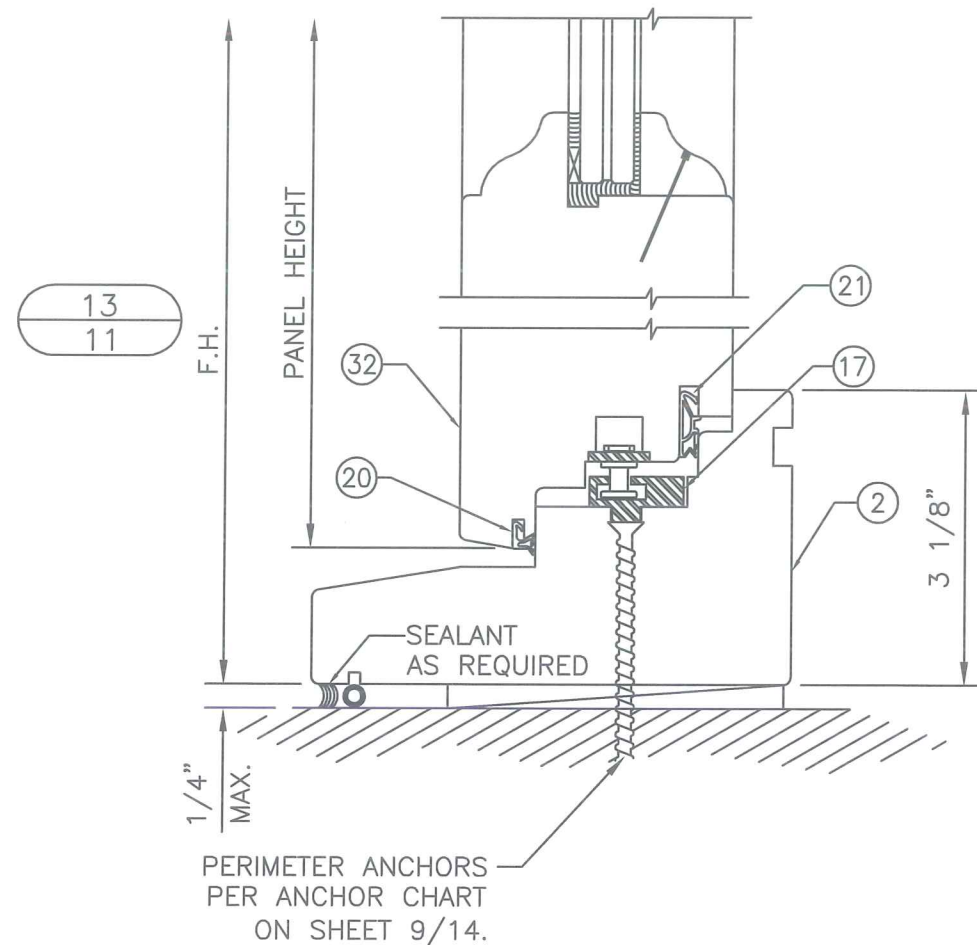
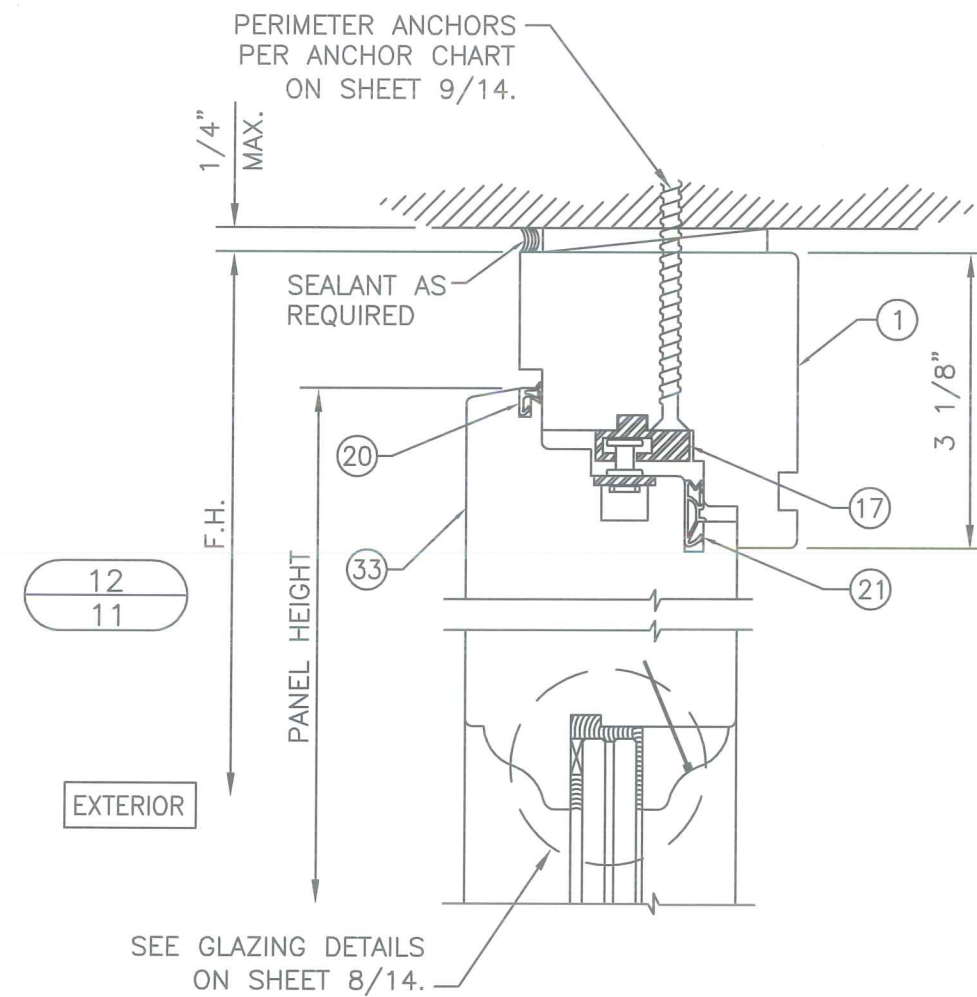
DEC 16 2017

STATE OF FLORIDA

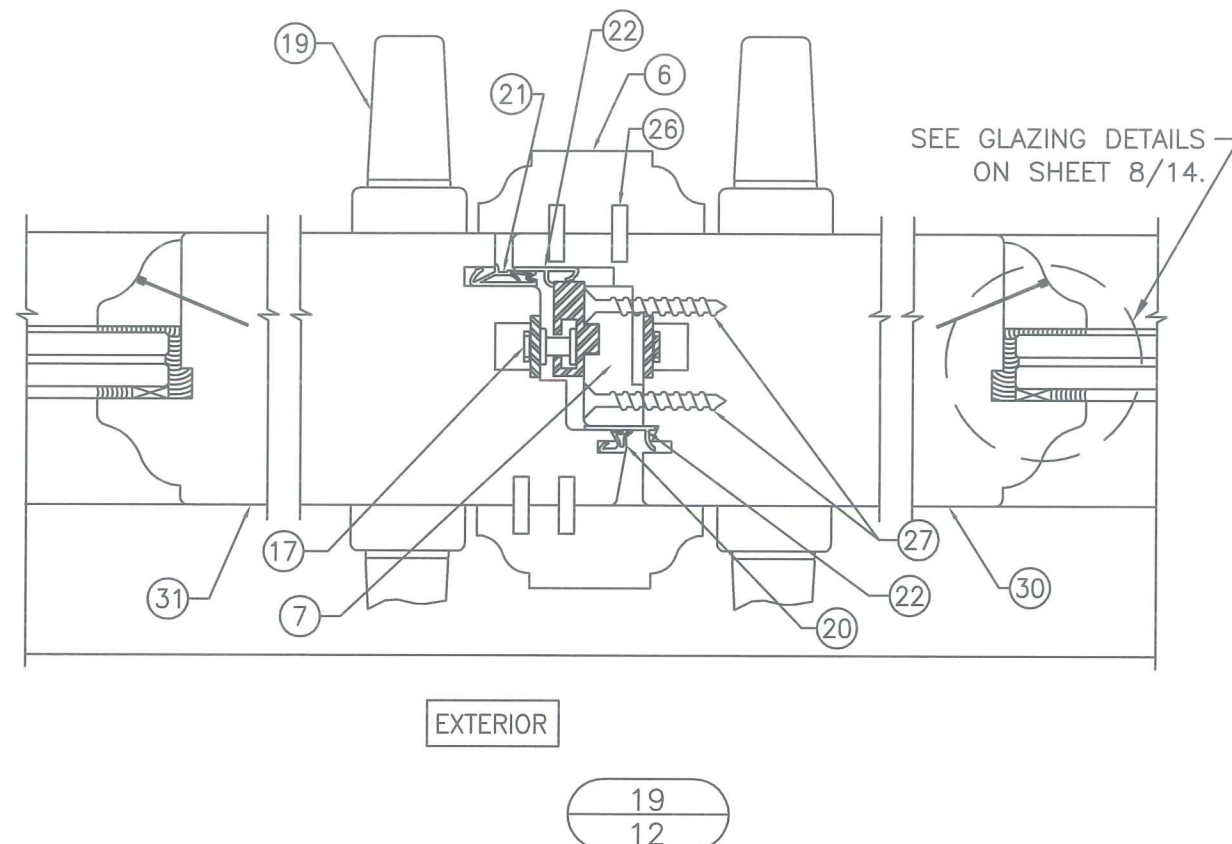
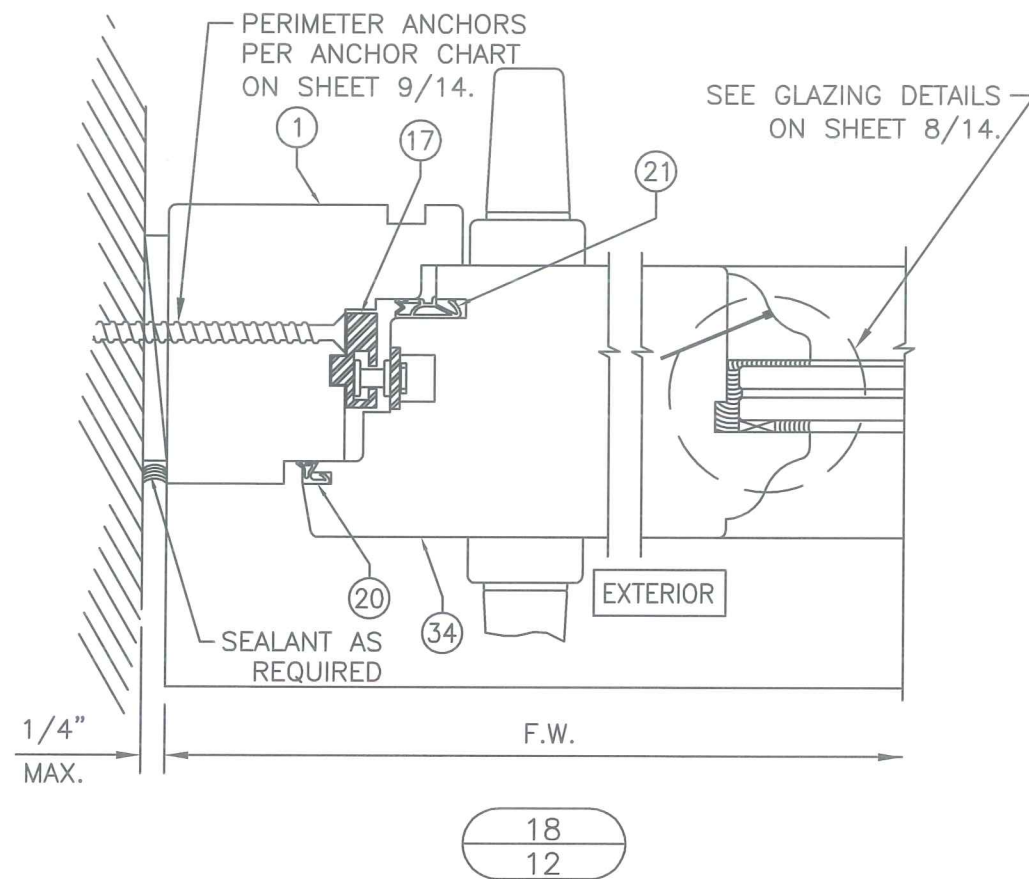
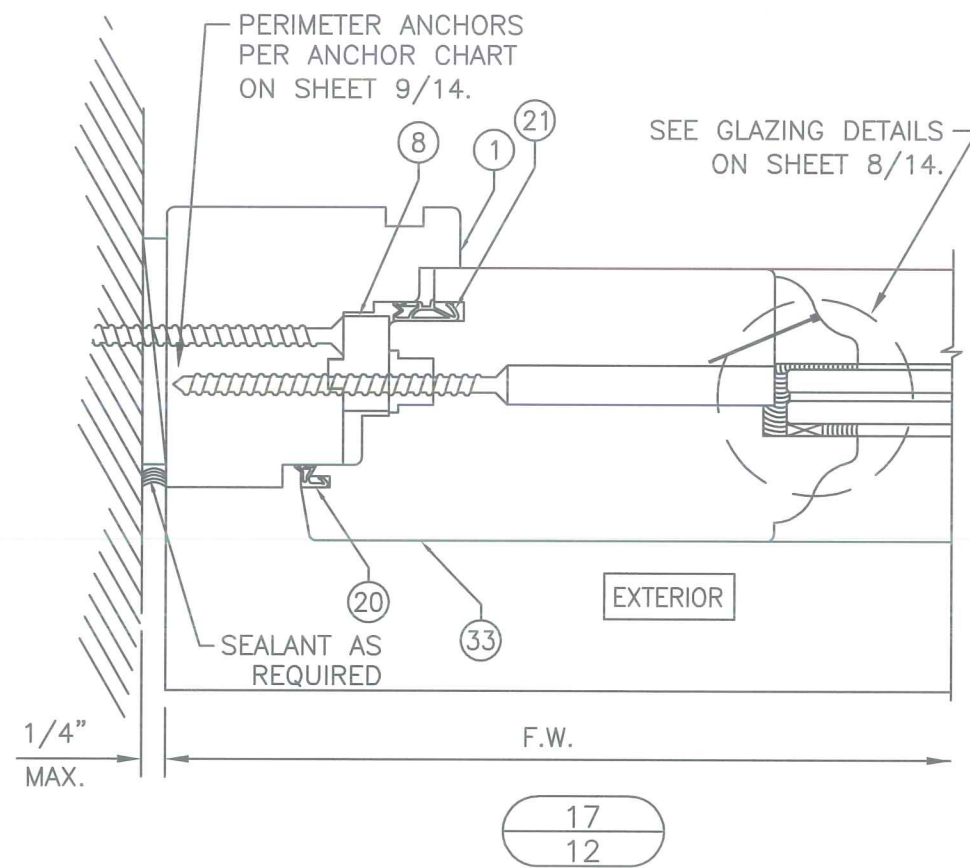
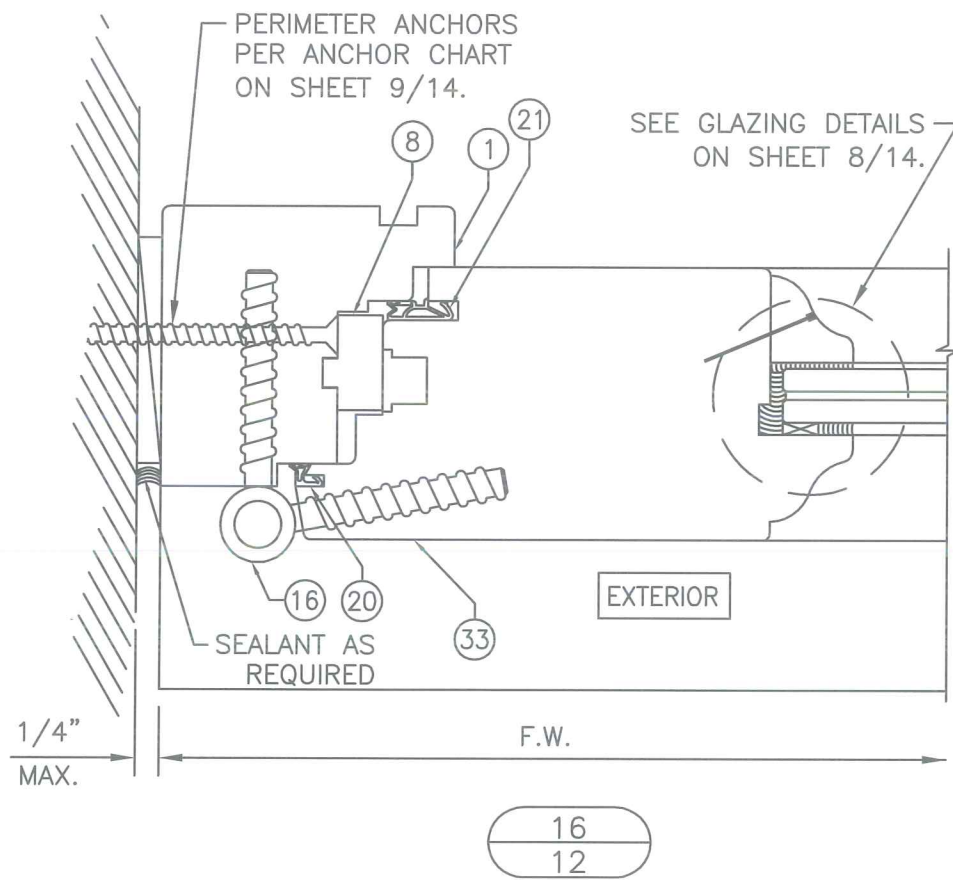
PROFESSIONAL ENGINEER

DRAWING NO.
EURO DOOR

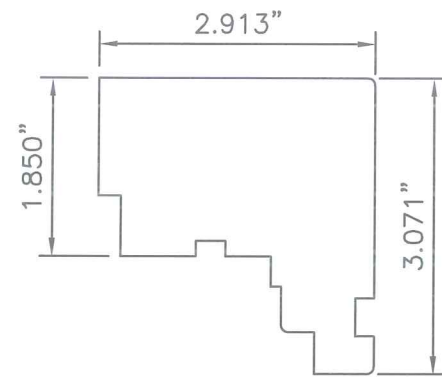
SHEET NO.
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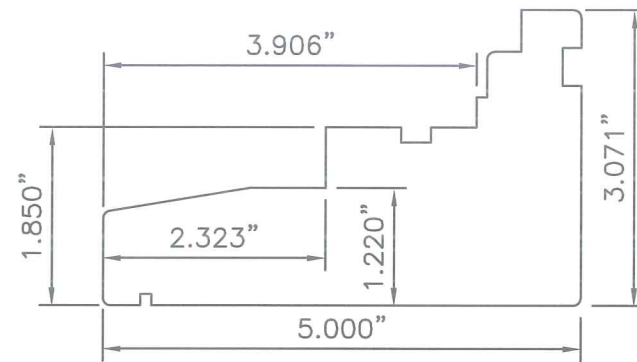
DATE: 5/2/14	
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REVISION DESCRIPTION	UPDATED TO 2014 FBC
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WOOD EUROPEAN SERIES GLAZED OUTSWING FRENCH DOORS (MERBAU)	
LUXBAUM ,LLC WINDOWS + DOORS 2400 CENTREPARK WEST DR, SUITE 150 WEST PALM BEACH, FL 33409 Ph: (561) 684-1500 www.luxbaum.com	
DRAWING NO. EURO DOOR	
SHEET NO. 11 of 14	



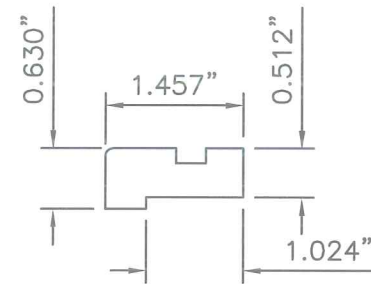
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SCOTT WOLTERS FL PE# 62354	WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412
DRAWING NO.	EURO DOOR
SHEET NO.	12 OF 14



① HEAD & SIDE JAMB



② SILL JAMB

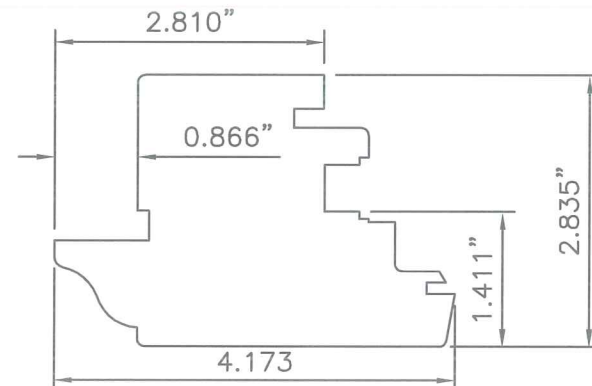


⑦ FILLET (MEETING STILE)

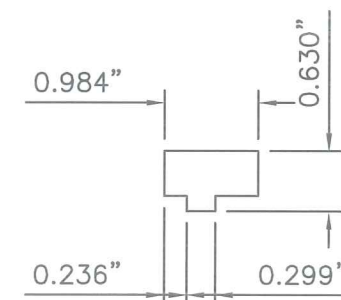
MERBAU WOOD: S.G. = 0.68
E = 2.6 x 10 psi
Sy = 21,300 psi
Fb = 12,780 psi



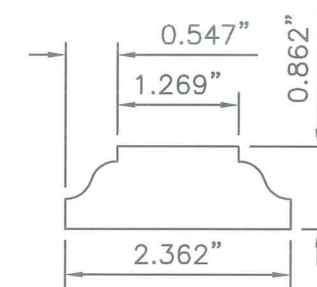
③ RAIL & STILE



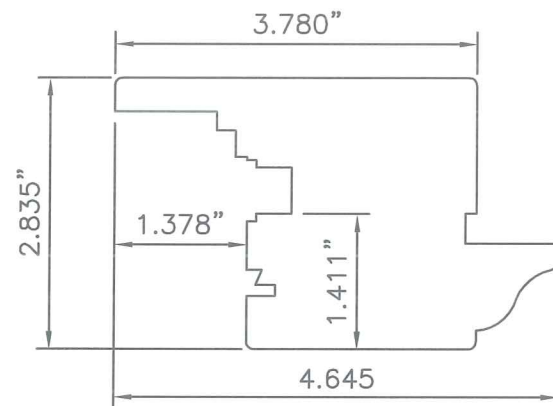
④ ACTIVE MEETING STILE



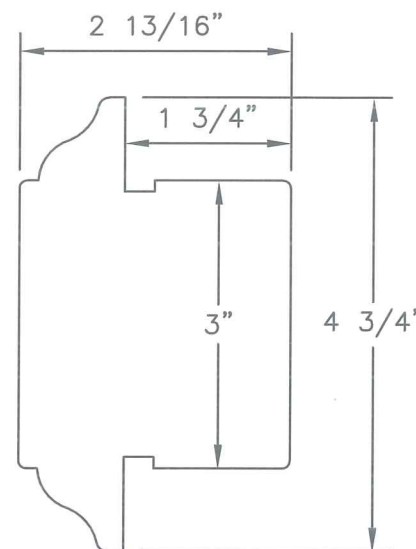
⑧ FILLET



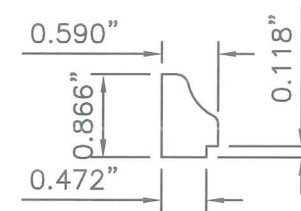
⑥ ASTRAGAL



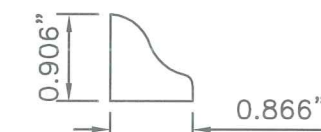
⑤ INACTIVE MEETING STILE



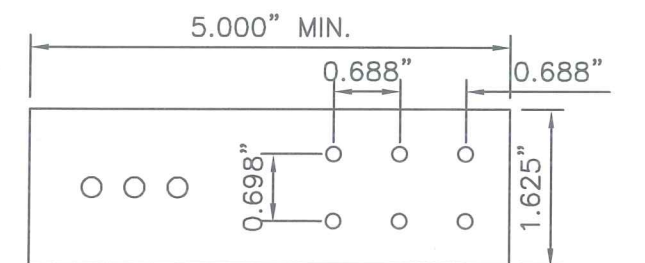
⑬ MID RAIL



⑩ INSULATED GLASS STOP

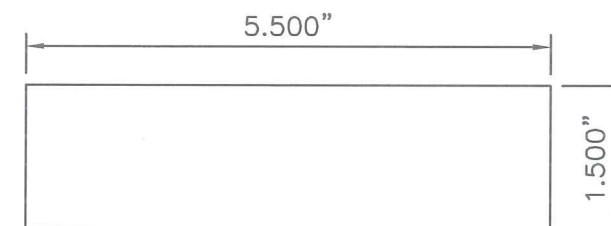


⑨ GLASS/PANEL STOP



⑫ MOUNTING CLIP

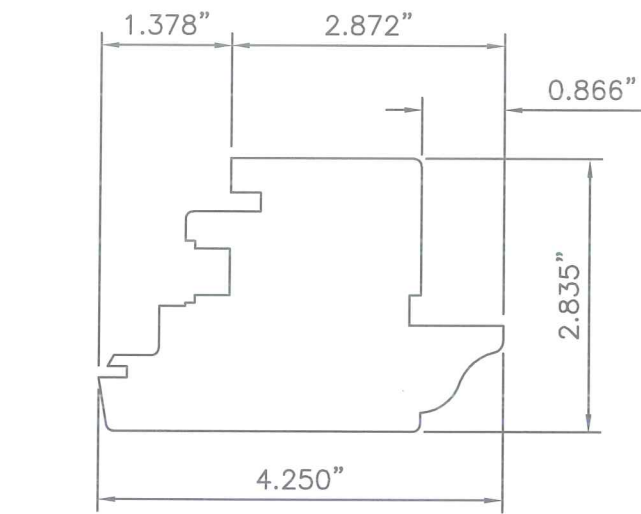
THICKNESS = 0.045"



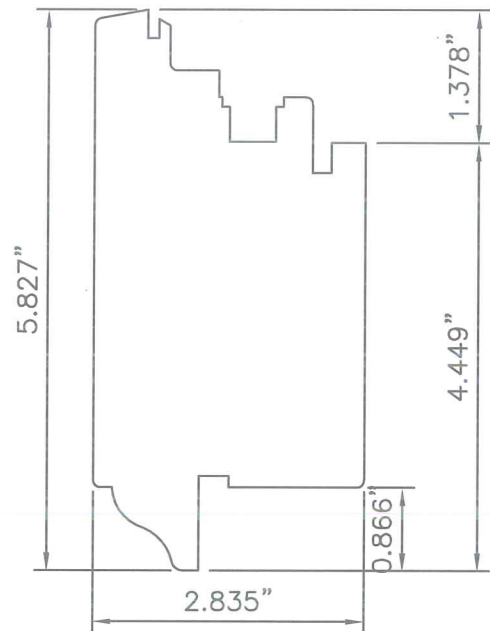
⑭ HORIZONTAL MULLION
(L = TRANSOM F.W.)



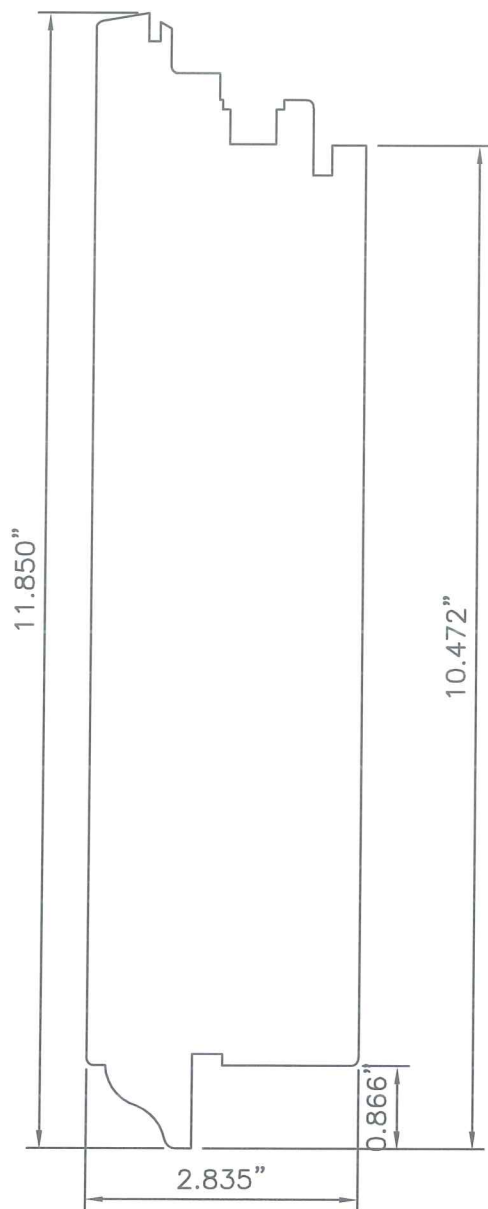
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WINDOWS + DOORS	
2400 CENTREPARK WEST DR, SUITE 150 WEST PALM BEACH, FL 33409	
Ph: (561) 684-1500 www.luxbaum.com	
DRAWING NO. EURO DOOR	
SHEET NO. 13 OF 14	



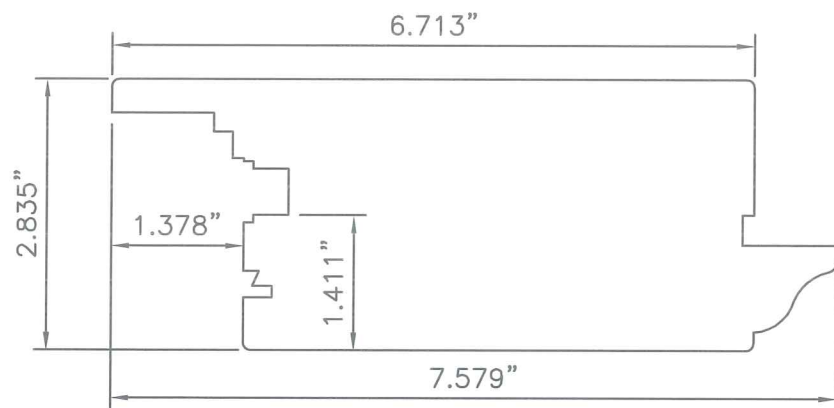
34 BOTTOM STILE



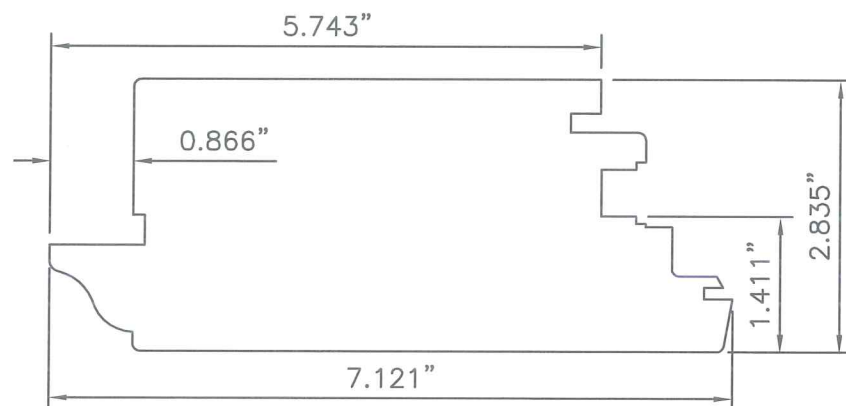
33 BOTTOM STILE



32 BOTTOM STILE



30 INACTIVE MEETING STILE



31 ACTIVE MEETING STILE

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	7478	HEAD & SIDE JAMB	MERBAU
2	78127	SILL JAMB	MERBAU
3	7283	RAIL & STILE	MERBAU
4	72106	ACTIVE MEETING STILE	MERBAU
5	72118	INACTIVE MEETING STILE	MERBAU
6	2260	ASTRAGAL	MERBAU
7	1637	FILLET (MEETING STILE)	MERBAU
8	1625	SPACER/FILLET	MERBAU
9	2223	GLASS/PANEL STOP	MERBAU
10	1522	GLASS STOP (I.G. GLASS)	MERBAU
12	-	MOUNTING CLIP	0.045" 316 STAINLESS STEEL (50 ksi)
13	72105	MID RAIL	MERBAU
14	-	MULLION (5 1/2" X 1 1/2")	MERBAU
30	72193	INACTIVE MEETING STILE	MERBAU
31	72181	ACTIVE MEETING STILE	MERBAU
32	72301	BOTTOM STILE	MERBAU
33	72148	HEAD & JAMB STILE	MERBAU
34	72109	ACTIVE RAIL (HANDLE SIDE)	MERBAU
HARDWARE			
15	-	HINGE	G-U HARDWARE 5020-SM
16	-	HINGE	BAKA C2-20
35	-	HINGE	LA FLORIDA-INOX
17	-	MULTI-POINT LOCK SET	SIEGENIA NO. 3/45M5
19	-	HANDLE	AS REQUIRED TO OPERATE LOCKS
36	-	STRIKE PLATE	SIEGENIA
37	-	MULTI-POINT LOCK SET	AGB MULTI-POINT
SEALS AND SEALANTS			
20	-	COMPRESSION SEAL	DEVENTER SV33
21	-	COMPRESSION SEAL	DEVENTER SV12
22	-	COMPRESSION SEAL	DEVENTER S6544
MISCELLANEOUS FASTENERS			
23	-	23 GAGE BRAD NAIL	4" FROM ENDS & 14" O.C.
24	-	23 GAGE BRAD NAIL	2" FROM CORNERS & 4" O.C.
25	-	NO. 12 X 3 1/2" SMS	4" FROM CORNERS & 12" O.C.
26	-	NO. 0 BISCUIT	4" FROM ENDS & 14" O.C.
27	-	NO. 8 X 1 1/2" SMS	4" FROM ENDS & 14" O.C. (2 ROWS)
28	-	1/16" X 1/4" NEOPRENE SHIM	1" FROM CORNERS & 8" O.C.
29	-	ALUMINUM INS. GLASS SPACER	CARDINAL I.G.

DATE:

5/2/14

DATE

6/12/15

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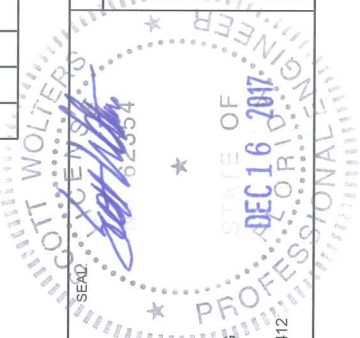
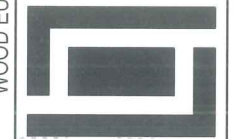
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