

CUSTOM MILLWORKS
SERIES WOOD FRENCH DOUBLE ENTRY DOOR
FULL LITE & 3/4" LITE
IMPACT RATED

REVISIONS			
REV	DESCRIPTION	DATE	BY
A	CORRECT ITEM NO. 5 AND 6 SECTION VIEWS	1/24/23	RJA

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, ASTM E1886-13a, ASTM E1996-14a AS DOCUMENTED IN TEST REPORT NO. NCTL-210-4161-01A.
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. ALL SETTING BLOCKS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.
6. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL NOT BE REQ'D. THIS PRODUCT MEETS WIND ZONE 4, MISSILE LEVEL D REQUIREMENTS ONLY.
7. MATERIALS:

7.1. FRAME: WOOD WITH SPECIFIC GRAVITY = 0.50.

7.2. CLADDING: ALUMINUM 6063-T5.

7.3. MISC.COMPONENTS: ALUMINUM 6063-T5.

7.4. SILL: ALUMINUM 6060-T66 / COMPOSITE BUMPER BY AFCO IND.
8. GLAZING AND OPAQUE INFILLS:

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

8.2. SEE GLAZING AND INFILL DETAILS ON SHEET 4 OF 8.

8.3. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
9. HARDWARE:

9.1. HOPPE HLS 9000 SERIES MULTI-POINT LOCK SYSTEM AND SHOOT BOLT.

9.2. AFCO INDUSTRY O.S. BUMP SILL.

10. PANEL OPERABILITY DESIGNATIONS:

10.1. DOOR IS A OPERABLE PANEL (X).

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2-3	ELEVATION AND ANCHOR LAYOUT
4	VERTICAL, HORIZONTAL SECTIONS & GLAZING DETAIL
5-6	ANCHOR DETAILS
7	PANEL OPTIONS AND HARDWARE
8	BILL OF MATERIALS AND COMPONENTS

INSTALLATION NOTES:

1. 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".
2. FOR ANCHORING THROUGH FRAME OR ANCHOR CLIP INTO MASONRY/CONCRETE USE 1/4" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING:

2.1. CONCRETE: 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/2" MINIMUM EDGE DISTANCE.

2.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
3. ANCHORING INTO WOOD SHALL BE AS FOLLOWS:

3.1. FOR ANCHORING THROUGH FRAME OR ANCHOR CLIP INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS PER (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE.
4. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

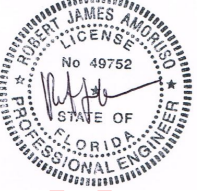
4.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).

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).

CUSTOM MILLWORKS 7882 COUNTY ROAD 24 FAIRHOPE, AL 36532			
WOOD FRENCH ENTRY DOOR IMPACT RATED GENERAL NOTES			
DRAWN: JRM	DWG NO. NL-0133	REV A	
SCALE SCALE	DATE 08-21-21	SHEET 1_OF_8	

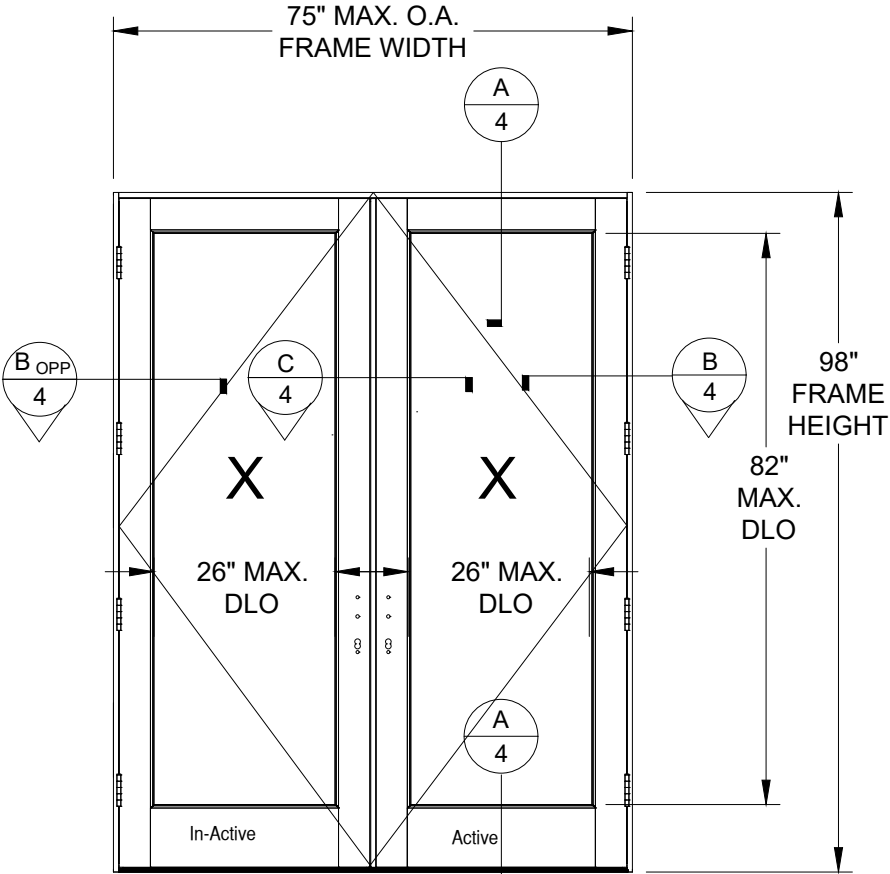
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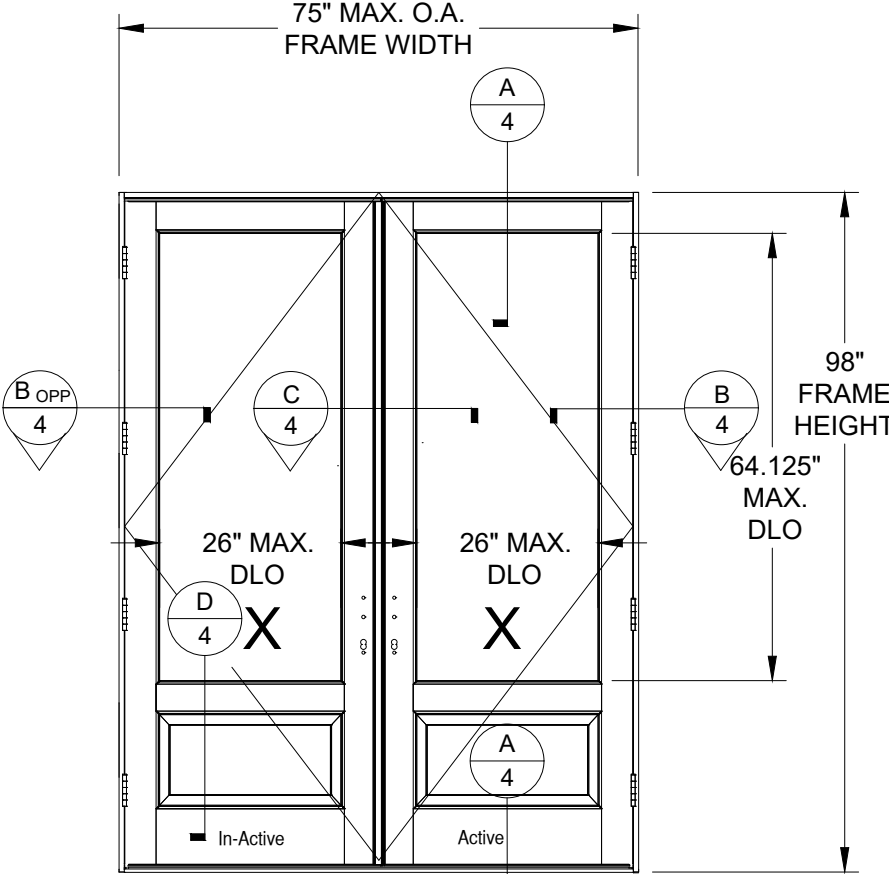
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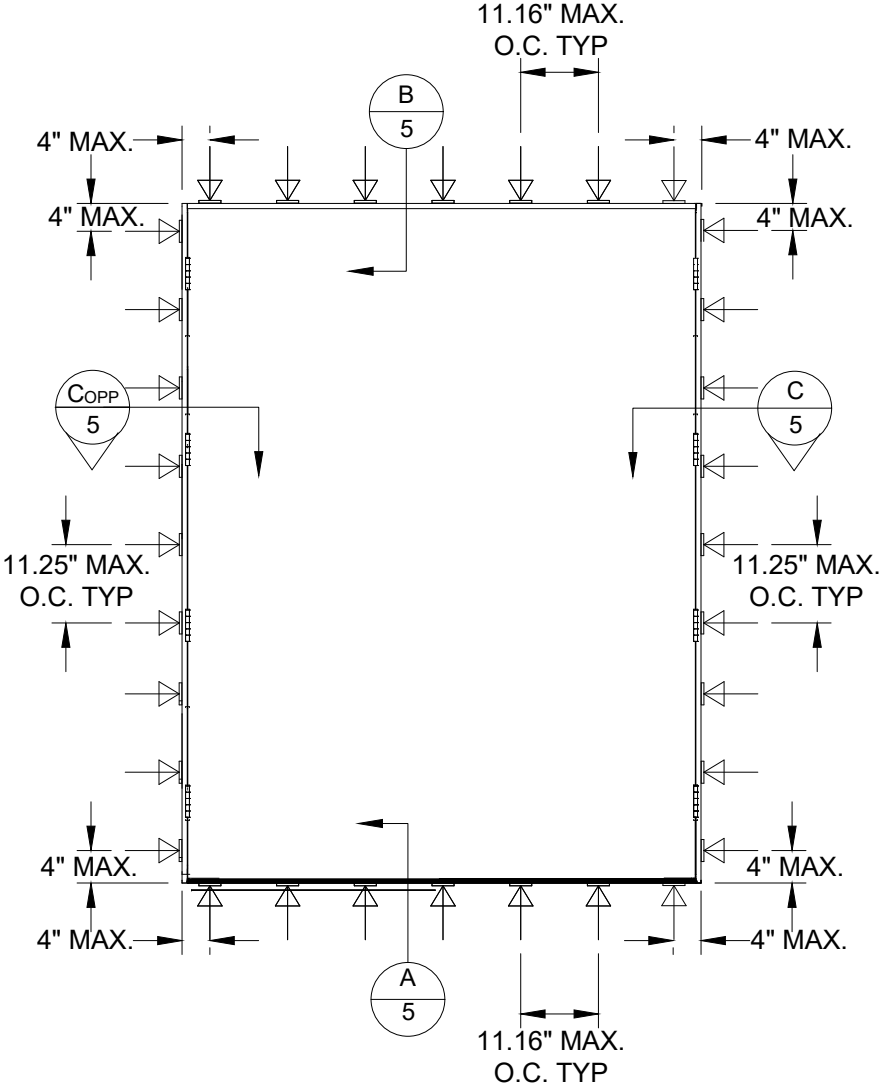
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ELEVATION LAYOUT
DOUBL ENTRY DOOR (XX)
FRENCH LITES



ELEVATION LAYOUT
DOUBL ENTRY DOOR (XX)
3/4" LITES



ANCHOR LAYOUT
ANCHOR CLIP
INSTALLATION
Strap Anchor Locations

DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	IMPACT RATING
75" X 98"	+/- 50 PSF	XX	WINDOW ZONE 4 MISSILE LEVEL D
SEE GLAZING DETAIL 1 ON SHEET 4			

MAXIMUM SIZES (IN)	
FRAME	75 X 98
PANEL	36 X 96
D.L.O	26 X 82
D.L.O	26 X 64.125

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7882 COUNTY ROAD 24
FAIRHOPE, AL 36532

WOOD FRENCH ENTRY DOOR
IMPACT RATED
ELEVATION AND ANCHOR CLIP LAYOUT

DRAWN: JRM

DWG NO. NL-0133

REV A

SCALE SCALE

DATE 08-21-21

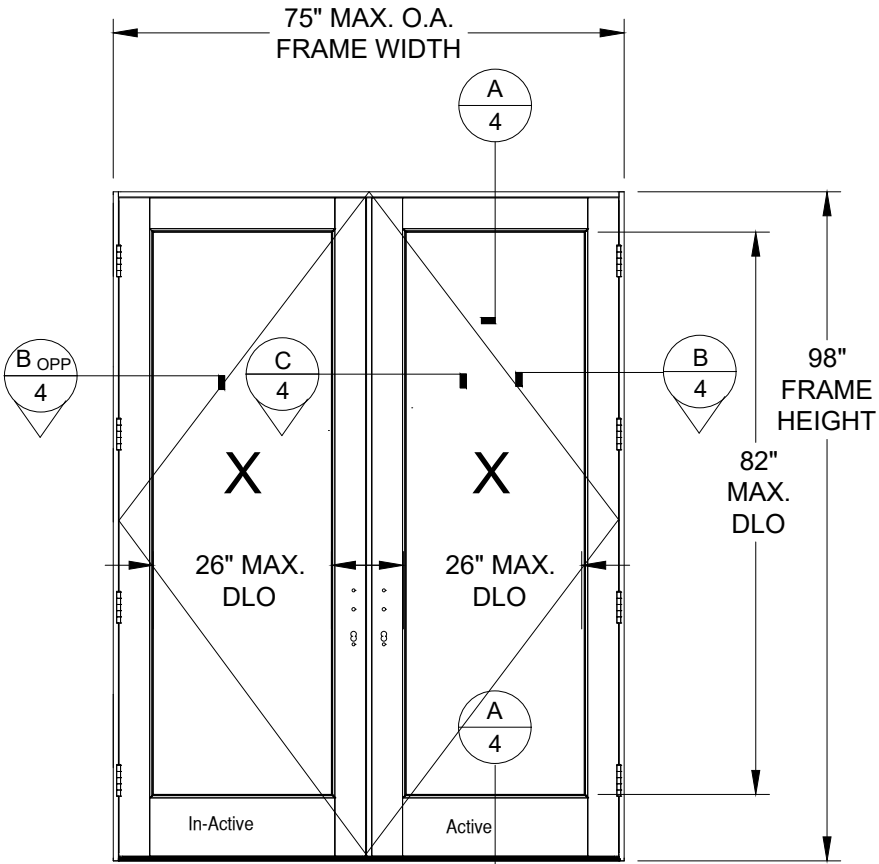
SHEET 2_OF_8

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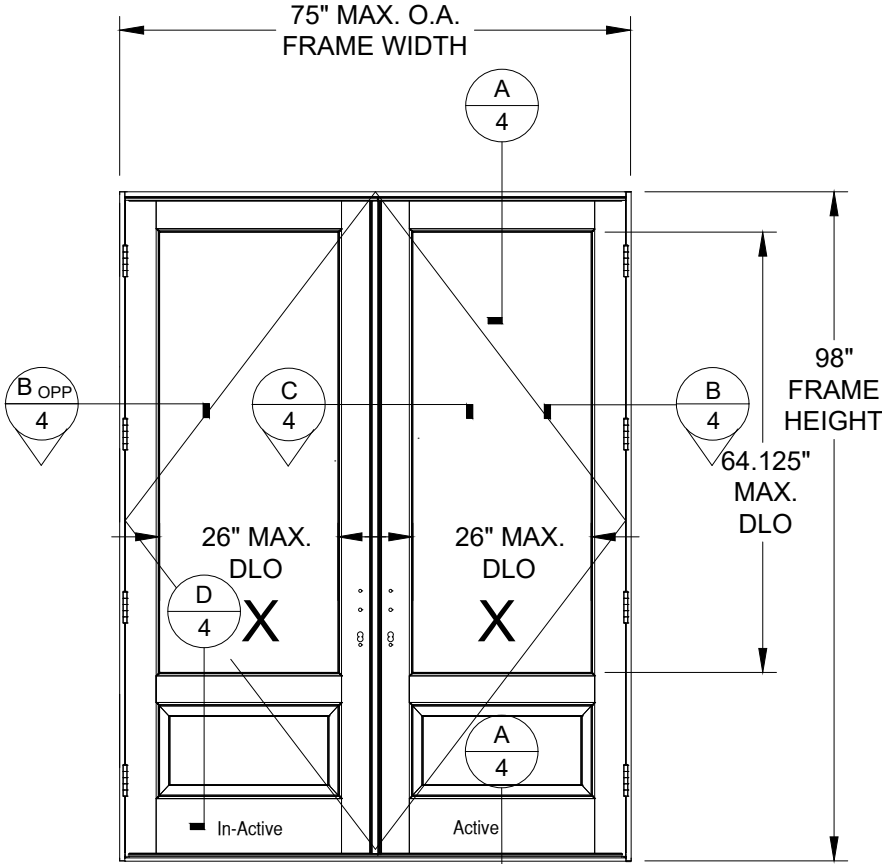
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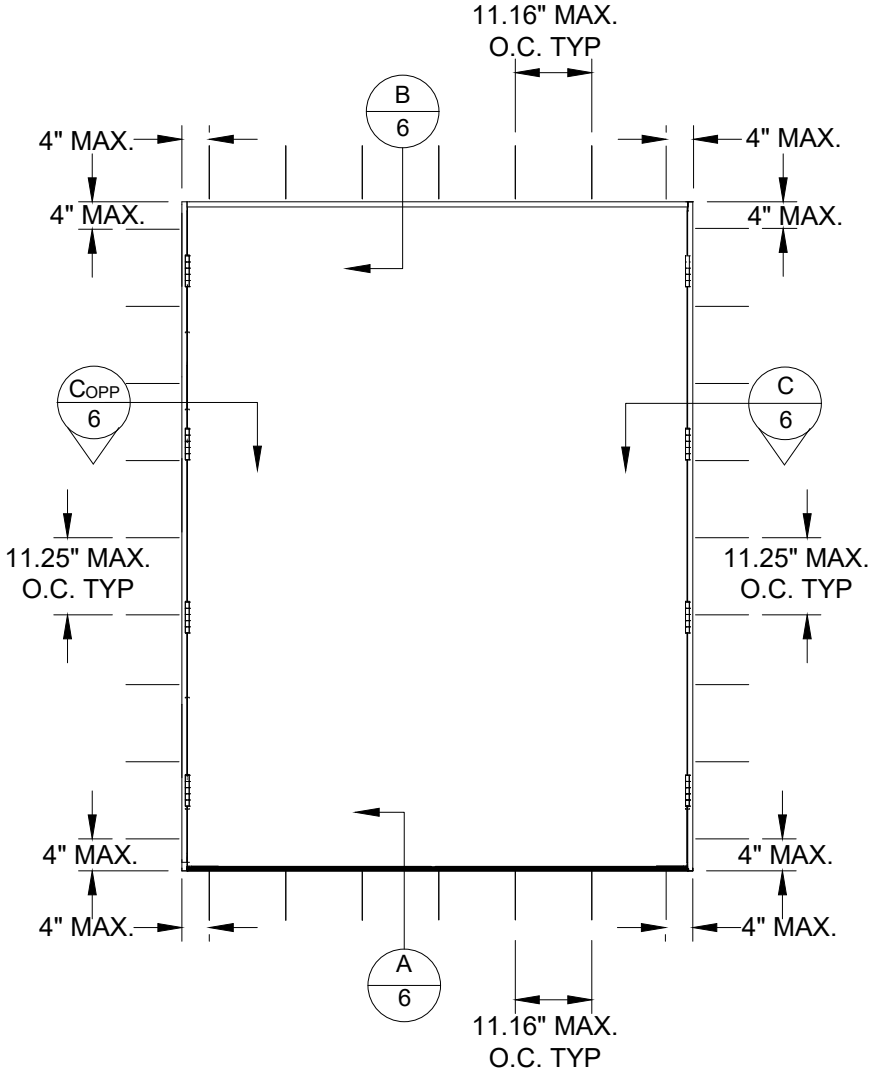
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ELEVATION LAYOUT
DOUBL ENTRY DOOR (XX)
FRENCH LITES



ELEVATION LAYOUT
DOUBL ENTRY DOOR (XX)
3/4" LITES



ANCHOR LAYOUT
THROUGH FRAME
INSTALLATION

DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	IMPACT RATING
75" X 98"	+/- 50 PSF	XX	WINDOW ZONE 4 MISSILE LEVEL D
SEE GLAZING DETAIL 1 ON SHEET 4			

MAXIMUM SIZES (IN)	
FRAME	75 X 98
PANEL	36 X 96
D.L.O	26 X 82
D.L.O	26 X 64.125

CUSTOM MILLWORKS 7882 COUNTY ROAD 24 FAIRHOPE, AL 36532		
WOOD FRENCH ENTRY DOOR IMPACT RATED ELEVATION AND THROUGH FRAME ANCHOR LAYOUT		
DRAWN: JRM	DWG NO. NL-0133	REV A
SCALE SCALE	DATE 08-21-21	SHEET 3_OF_7

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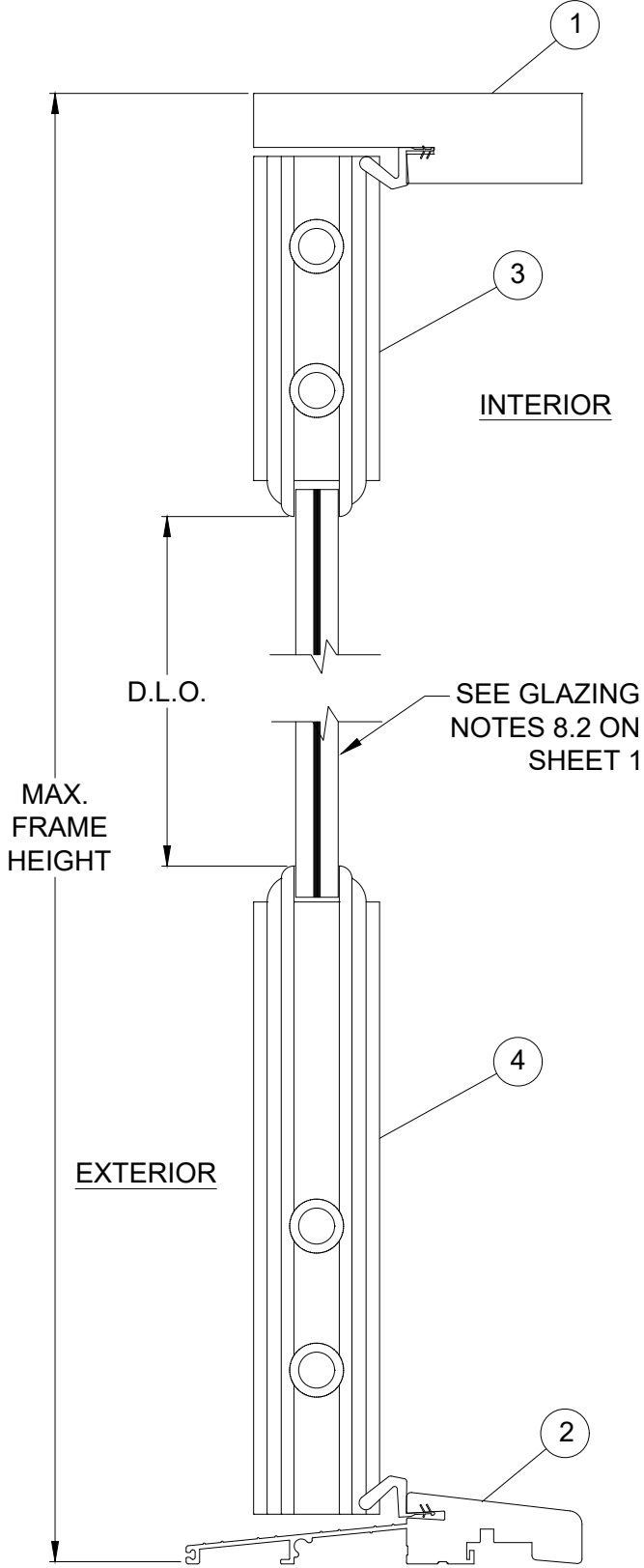
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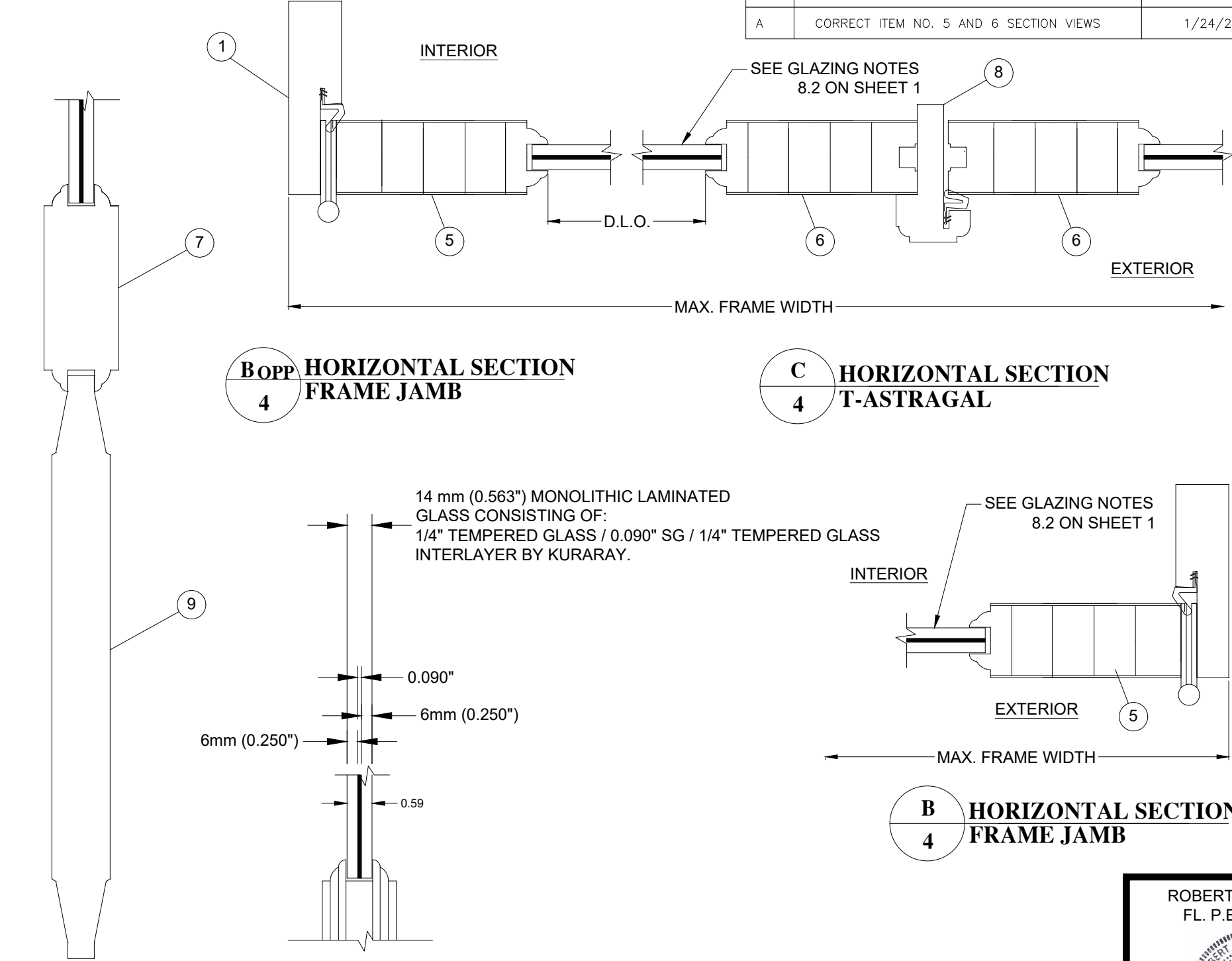
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A
4 **VERTICAL SECTION**



D
4 **VERTICAL SECTION**
MID RAIL AND
RAISED PANEL DETAIL

GLAZING DETAIL 1

B
4 **HORIZONTAL SECTION**
FRAME JAMB

C
4 **HORIZONTAL SECTION**
T-ASTRAGAL

B
4 **HORIZONTAL SECTION**
FRAME JAMB

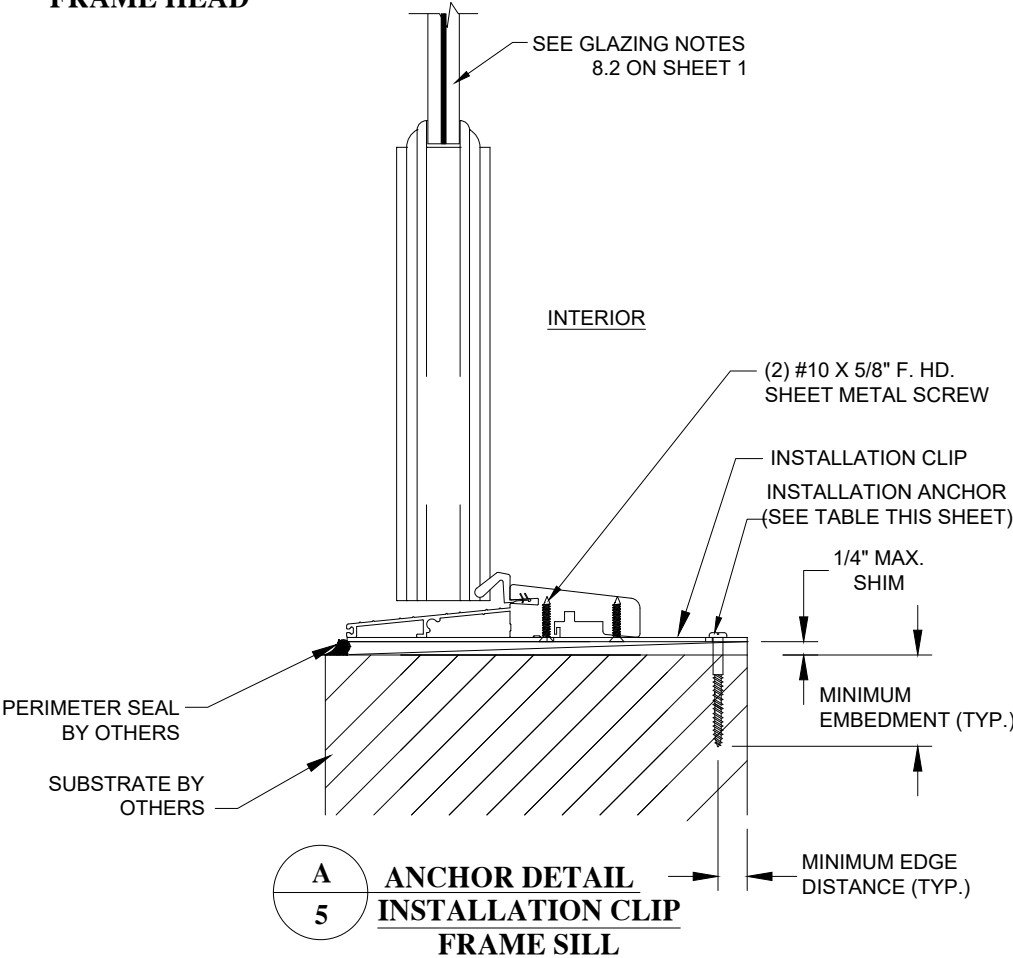
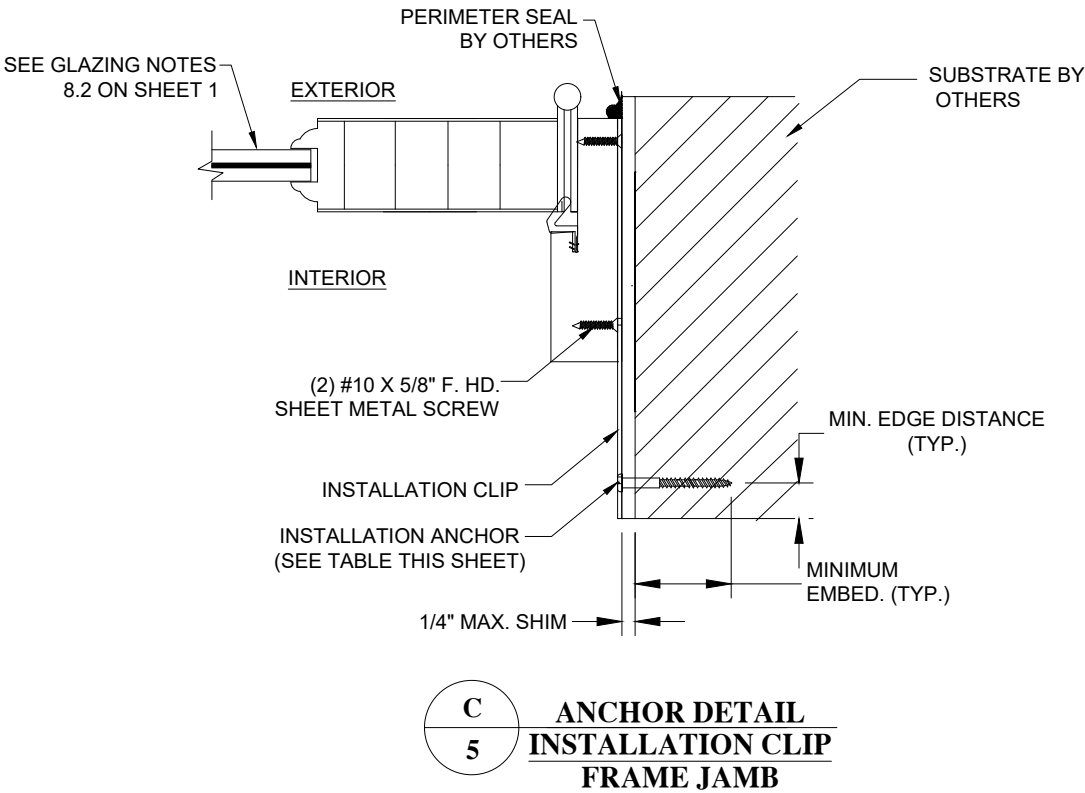
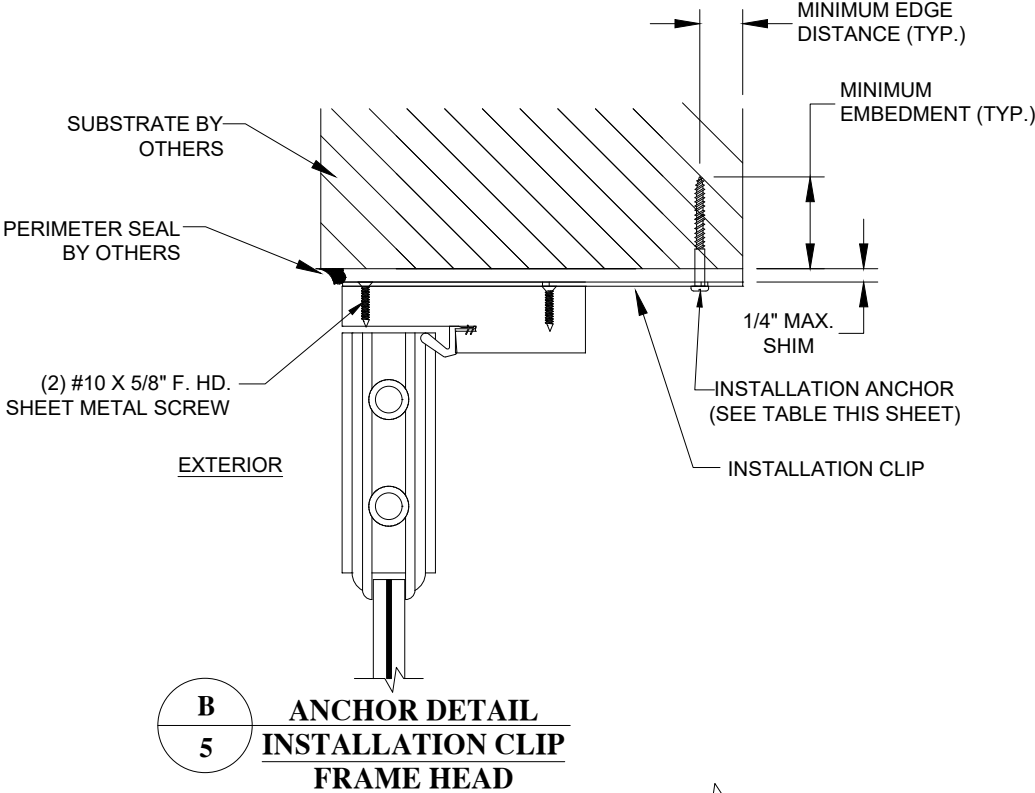
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WOOD FRENCH ENTRY DOOR IMPACT RATED VERTICAL AND HORIZONTAL SECTIONS & GLZG.		
DRAWN: JRM	DWG NO. NL-0133	REV A
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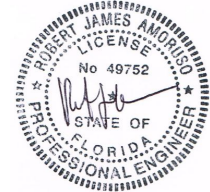
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INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH STRAP	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#14 WOOD SCREW	1-1/2	1"
	CONCRETE	2500 PSI MIN. CONCRETE	1/4 ITW TAPCON	1-1/2	1-1/2
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	1/4 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

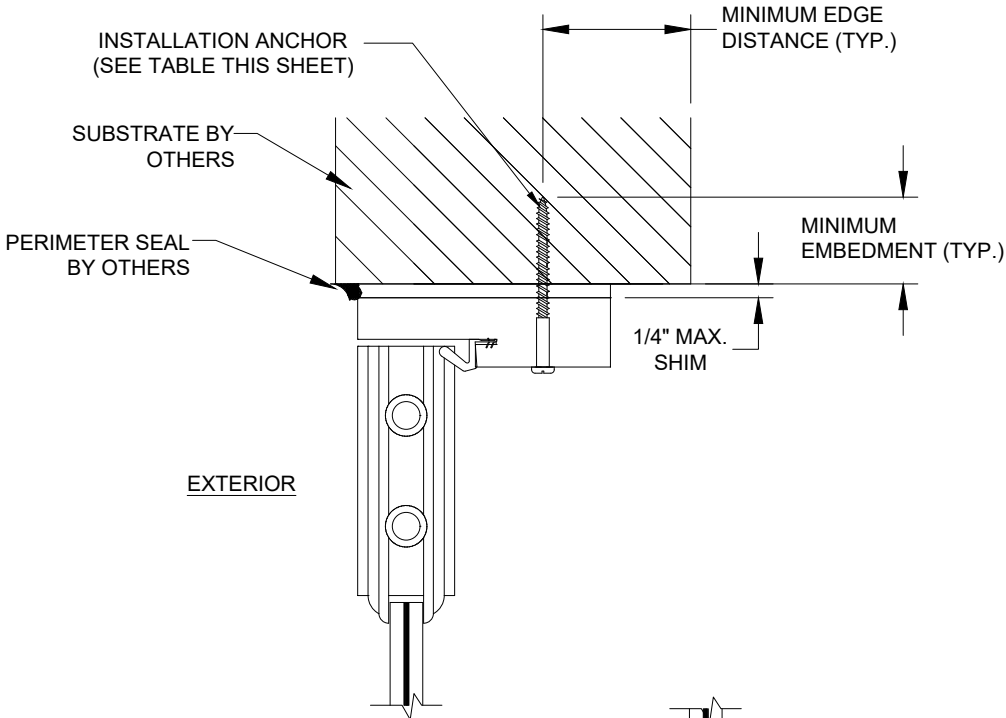
CUSTOM MILLWORKS 7882 COUNTY ROAD 24 FAIRHOPE, AL 36532		
WOOD FRENCH ENTRY DOOR IMPACT RATED ANCHOR DETAILS – INSTALLATION CLIP		
DRAWN: JRM	DWG NO. NL-0133	REV A
SCALE SCALE	DATE 08-21-21	SHEET 5_OF_8

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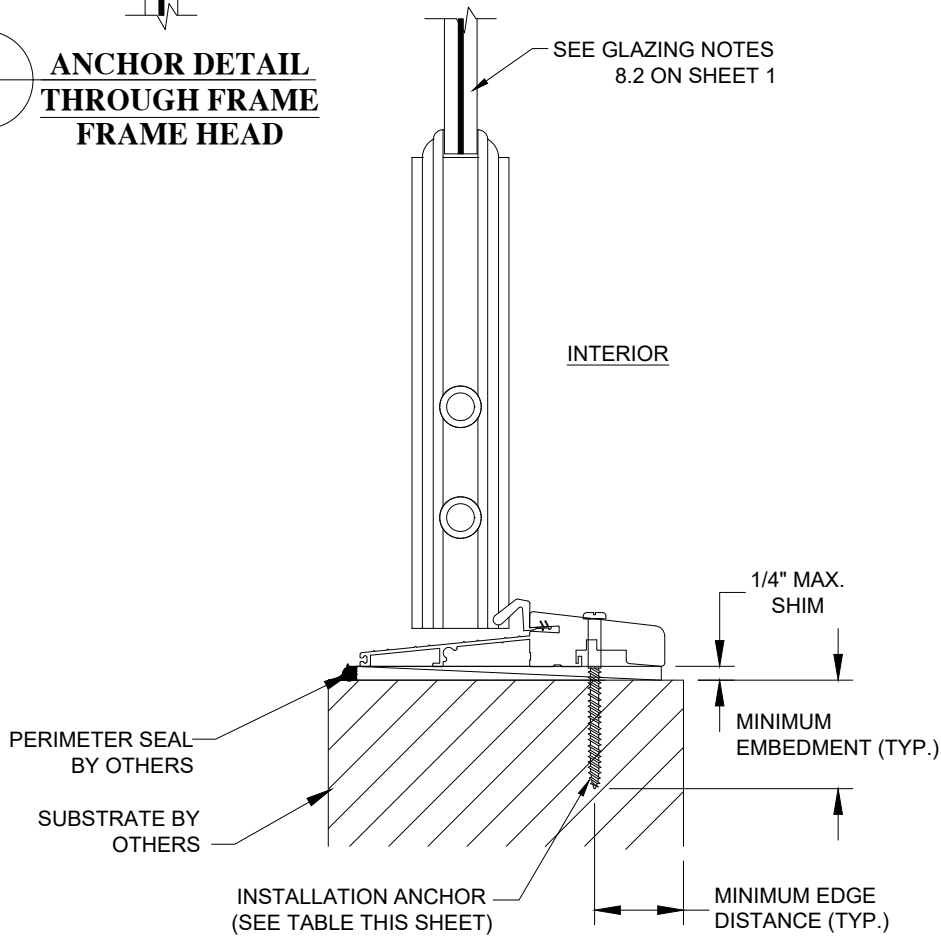


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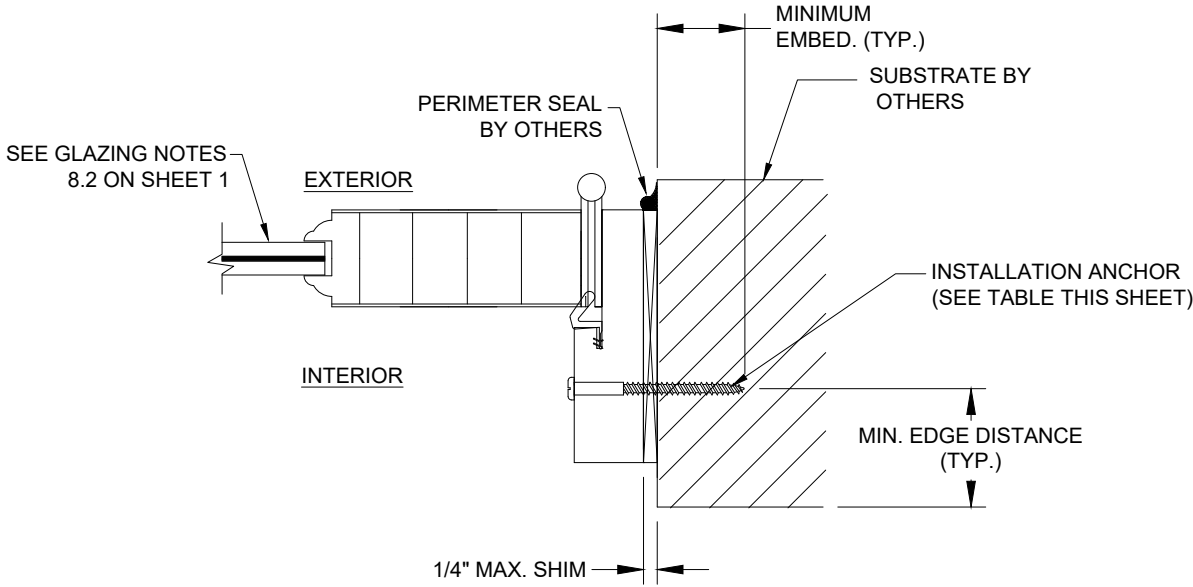
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B
6 **ANCHOR DETAIL
THROUGH FRAME
FRAME HEAD**



A
6 **ANCHOR DETAIL
THROUGH FRAME
FRAME SILL**

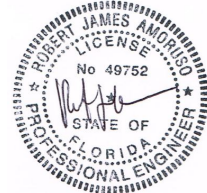


C
6 **ANCHOR DETAIL
THROUGH FRAME
FRAME JAMB**

INSTALLATION ANCHOR REQUIREMENTS TABLE					
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	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

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WOOD FRENCH ENTRY DOOR IMPACT RATED ANCHOR DETAILS-THROUGH FRAME		
DRAWN: JRM	DWG NO. NL-0133	REV A
SCALE SCALE	DATE 08-21-21	SHEET 6_OF_8

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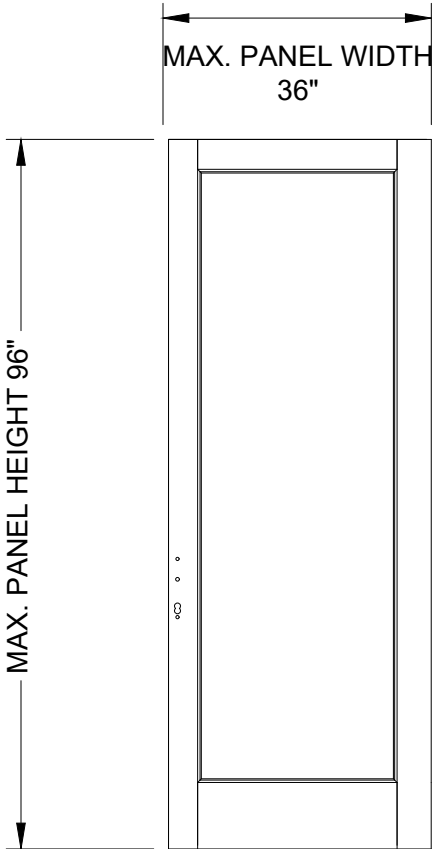


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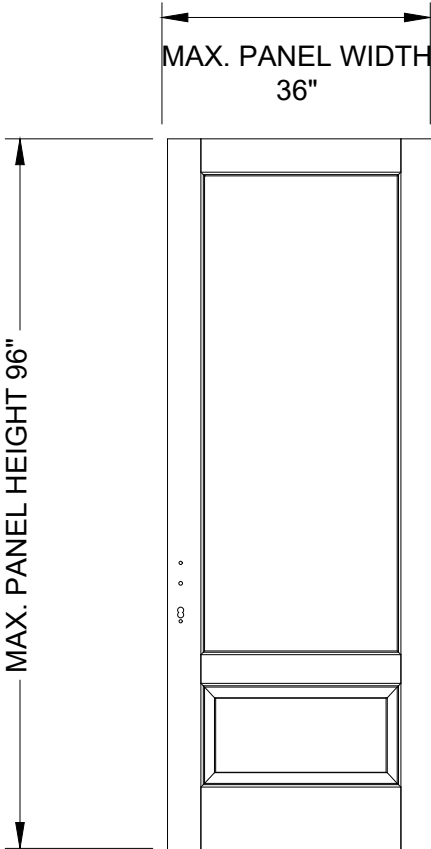
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PANEL OPTIONS



EXTERIOR ELEVATION
ALL GLASS PANEL



EXTERIOR ELEVATION
ALL GLASS PANEL
WITH MIDRAIL
AND OPAQUE INFILL

NOTES:
1. MID-RAIL MAY ONLY BE HORIZONTAL
3. POSITION OF MID-RAIL IS NOT LIMITED.

WOOD PANEL NOTES:
1. WOOD PANELS ARE MADE UP OF 3/4" MARINE PLYWOOD.
2. OTHER WOOD MAY BE ADDED TO THE INTERIOR AND/OR EXTERIOR FACE OF THE PLYWOOD TO CREATE RAISED PANELS, TONGUE AND GROOVE PANELS, LOUVERED PANELS ETC.

HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE	HLS 9000 SERIES MULTI POINT LOCK & SHOOT BOLT
HOPPE	SWING HOOK PLATE
HOPPE	LOCK STRIKE PLATE
HOPPE	SHOOT BOLT PLATE
EMTEK	4.5" BALL BEARING HINGE

CUSTOM MILLWORKS 7882 COUNTY ROAD 24 FAIRHOPE, AL 36532			
WOOD FRENCH ENTRY DOOR IMPACT RATED PANEL OPTIONS & HARDWARE			
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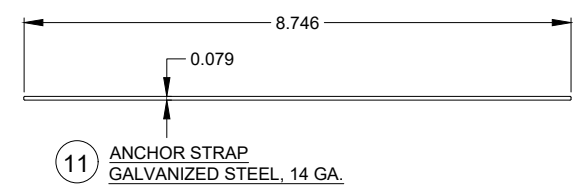
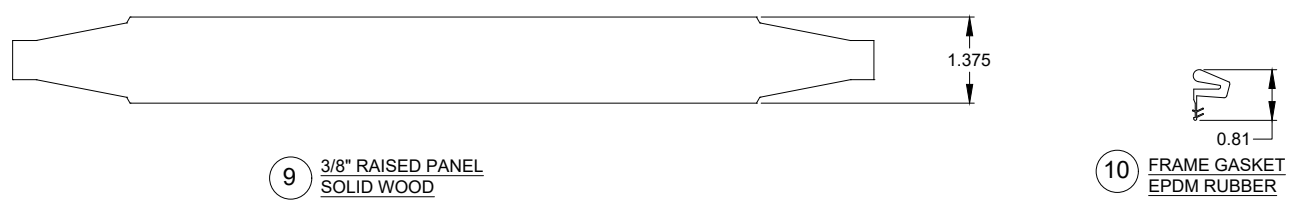
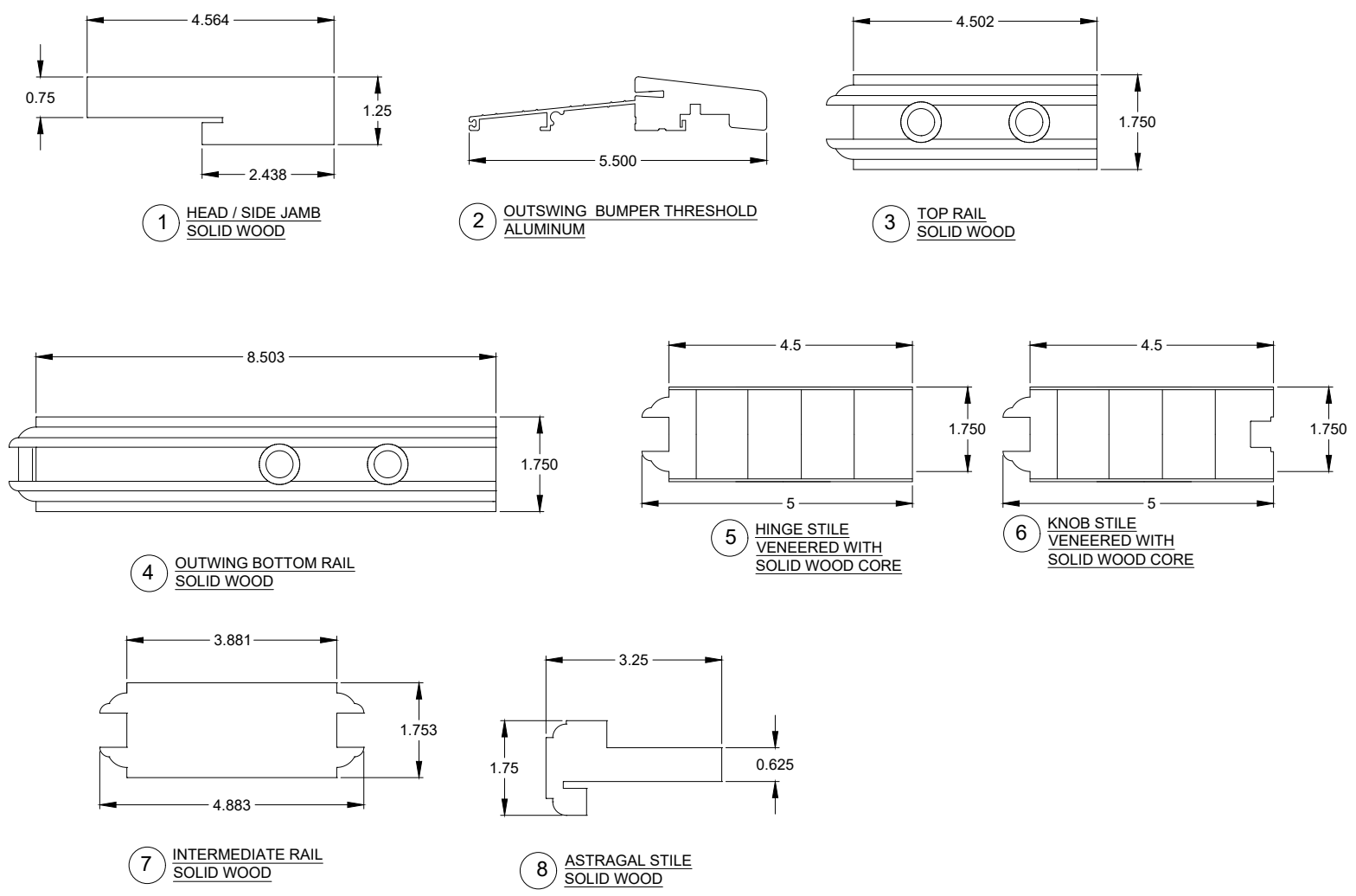


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QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	-----	MAIN FRAME HEAD, JAMB SOLID WOOD	PURCHASE
2	-----	ALUMINUM BUMP SILL	AFCO IND.
3	-----	TOP RAIL, SOLID WOOD	PURCHASE
4	-----	BOTTOM RAIL, SOLID WOOD	PURCHASE
5	-----	ACTIVE / NON-ACTIVE HINGE STILE, LAMINATED WOOD	PURCHASE
6	-----	ACTIVE / NON-ACTIVE KNOB STILE, LAMINATED WOOD	PURCHASE
7	-----	MID RAIL, SOLID WOOD	PURCHASE
8	-----	WOOD T ASTRAGAL	PURCHASE
9	-----	1-3/8" WOOD PANEL	PURCHASE
10	-----	GASKET EPDM RUBBER	PURCHASE
11	-----	ANCHOR STRAP, 14 GA. GALVANIZED STEEL	SIMPSON
12	-----	#10 X 0.625" FH SMS	PURCHASE
13	-----	3/16" DIAM. I.T.W. MASONRY ANCHOR	PURCHASE
14	-----	#10 PH WOOD SCREW	PURCHASE

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BILL OF MATERIAL & COMPONENTS

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