

IMPACT 360 SERIES

WOOD GLAZED OR OPAQUE

NARROW STILE & RAIL

DOUBLE DOOR w/ TRANSOM

INSWING/OUTSWING

"IMPACT"

GENERAL NOTES:

1.

This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2.

Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4.

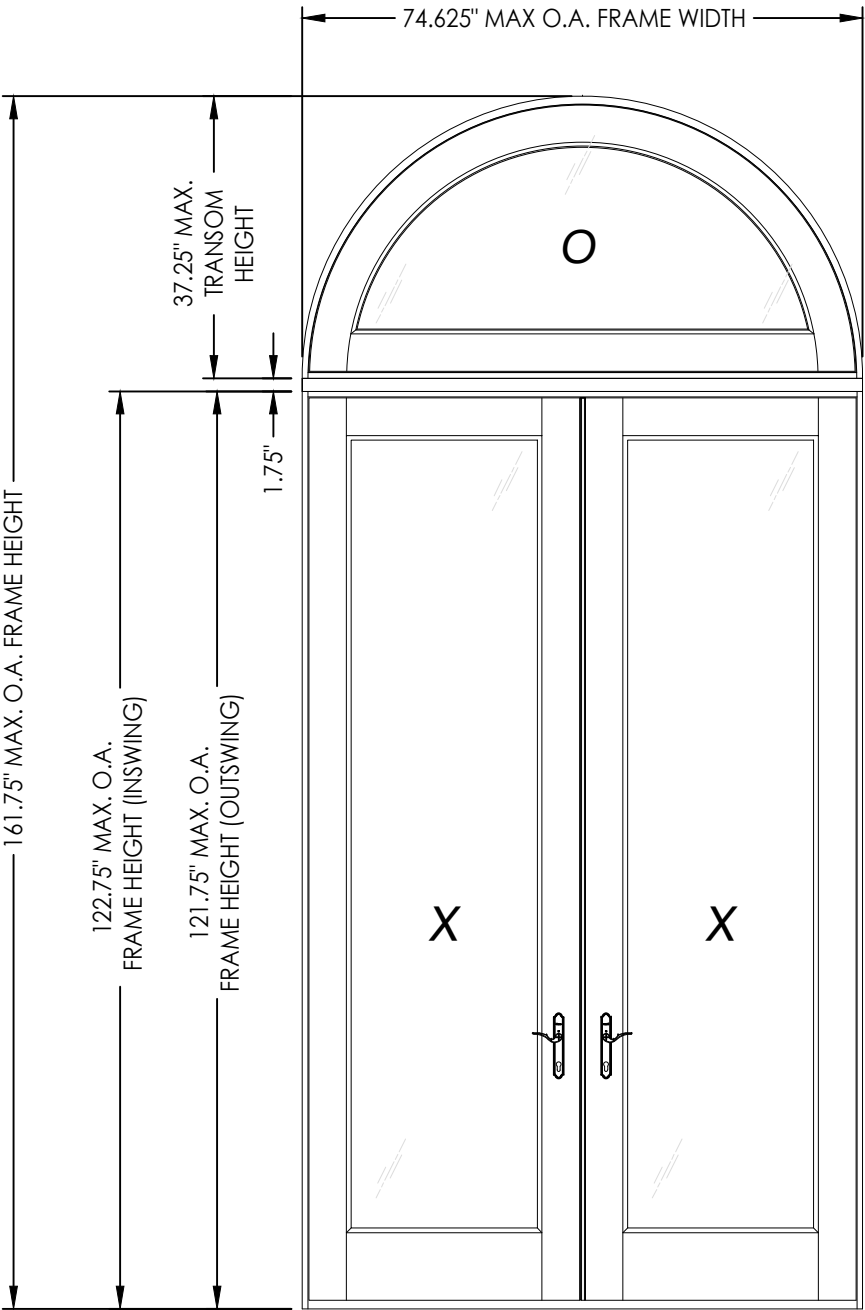
For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5.

Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6.

Outswing configurations meet water infiltration requirements for "HVHZ".
7.

Inswing configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

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7	Horizontal & Vertical Cross Sections (1X Buck)
8	Vertical Cross Sections (Thresholds)
9	Buck Anchoring
10	Frame Anchoring
11	Hardware Details
12	Bill of Materials & Components



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING (WATER INFILTRATION REQUIRED)		DESIGN PRESSURE (PSF) OUTSWING (WATER INFILTRATION NOT REQUIRED)	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
O XX	+60.0	-60.0	+60.0	-65.0	+65.0	-65.0

27

L. F. SCHMIDT

LICENSE

No. 43409

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Digitally signed by Lyndon F Schmidt
Date: 2025.10.16 14:26:37 -04'00'

This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS

NO.	DATE	BY

DATE: 10/01/25

SCALE: N.T.S.

DWG. BY: LFS

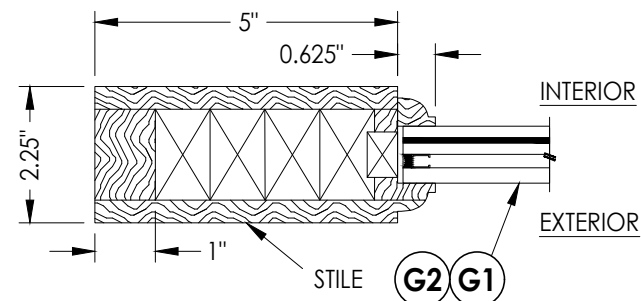
CHK. BY: RW

DRAWING NO.: FL-21891.18

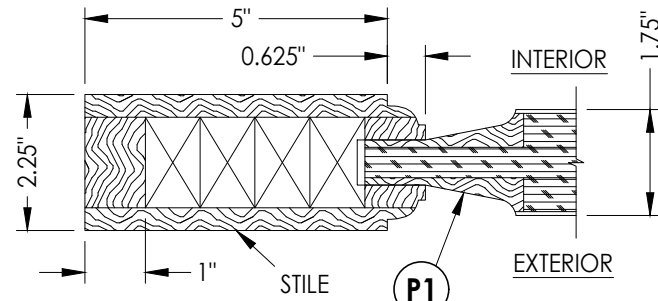
SHEET 1 OF 12

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

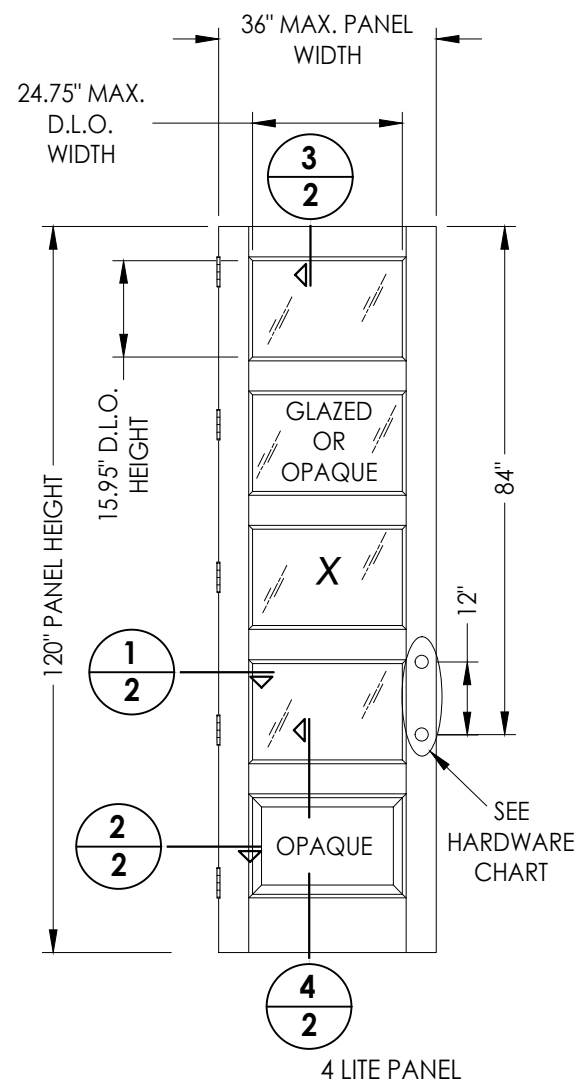
© 2025 R.W. BUILDING CONSULTANTS INC.



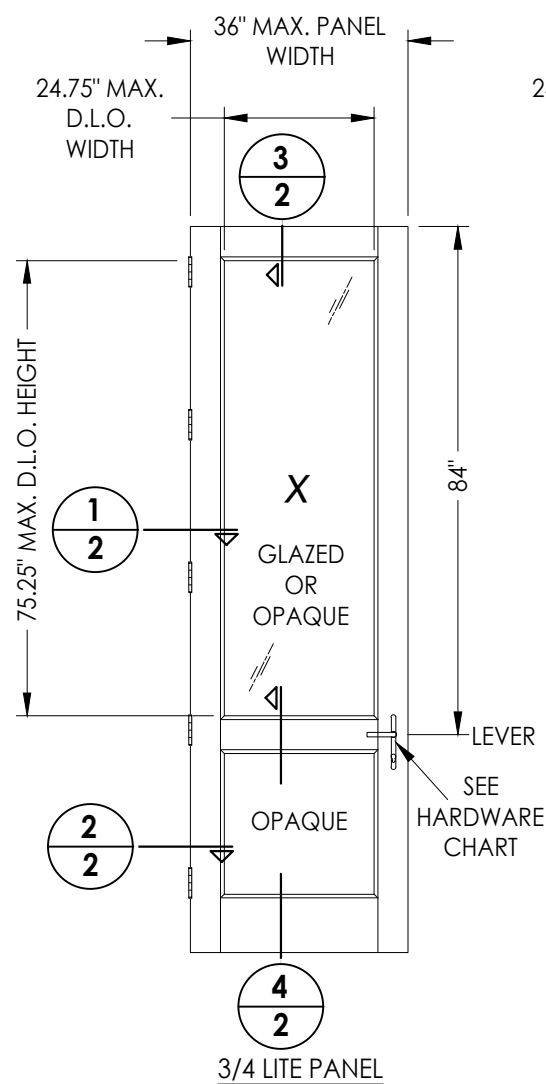
1 HORIZONTAL CROSS SECTION



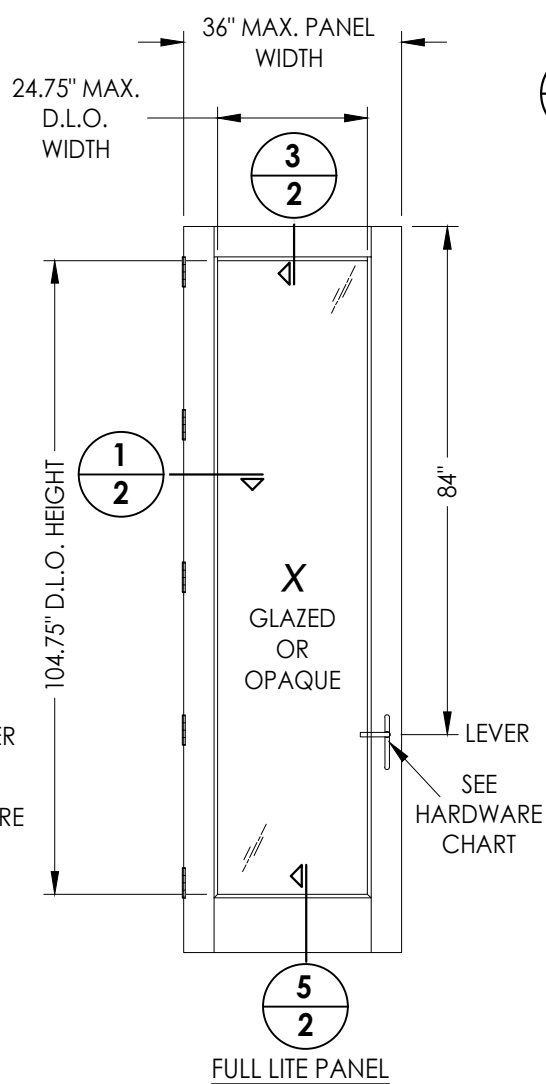
2 HORIZONTAL CROSS SECTION



4 LITE PANEL



3/4 LITE PANEL

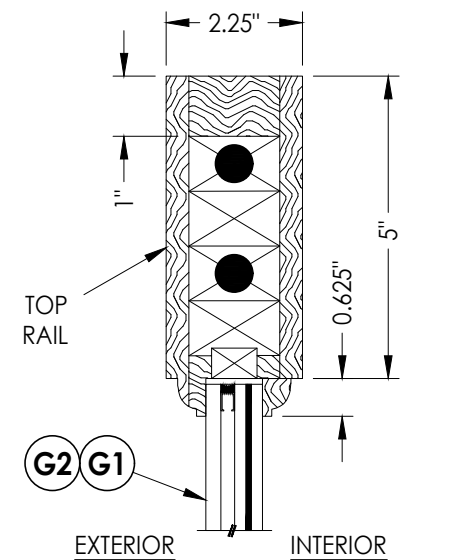


FULL LITE PANEL

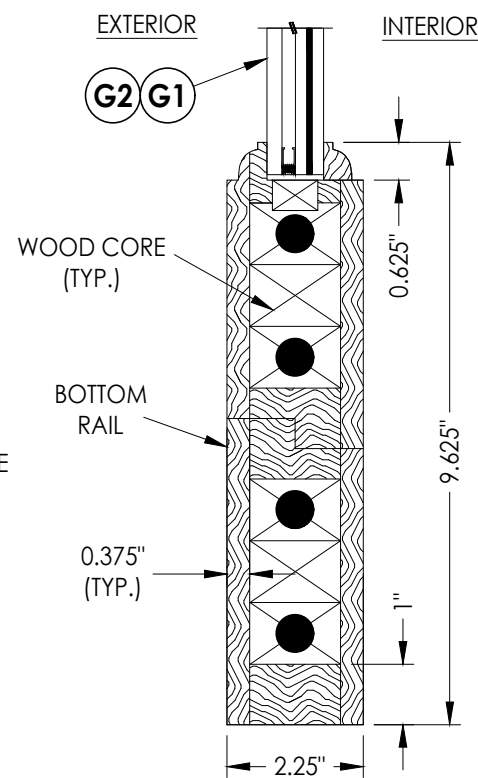
40 WOOD DOOR PANELS

Glazed or Opaque (MILLWORK 360)

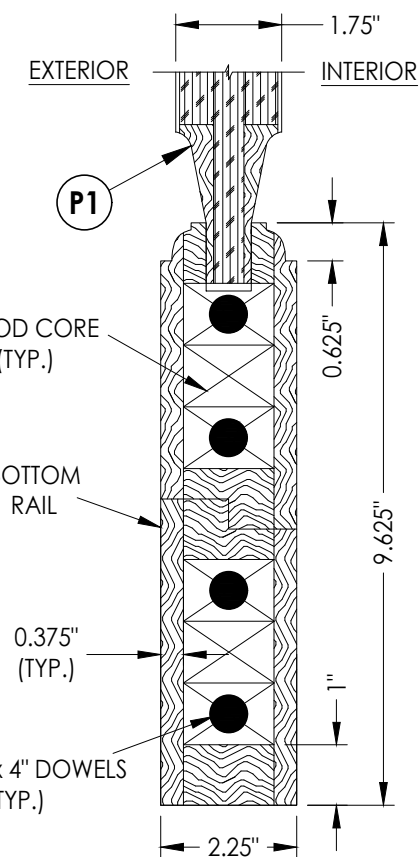
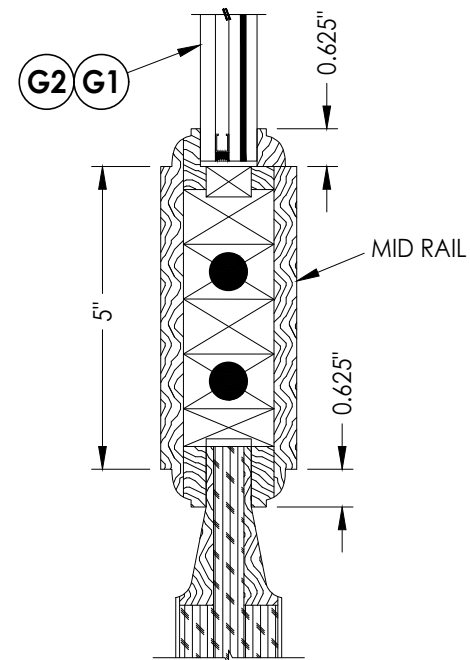
WOOD DOOR COMPONENTS:
VENEER/EDGES: MAHOGANY (G = 0.55)
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)



3 **VERTICAL CROSS SECTION**
2



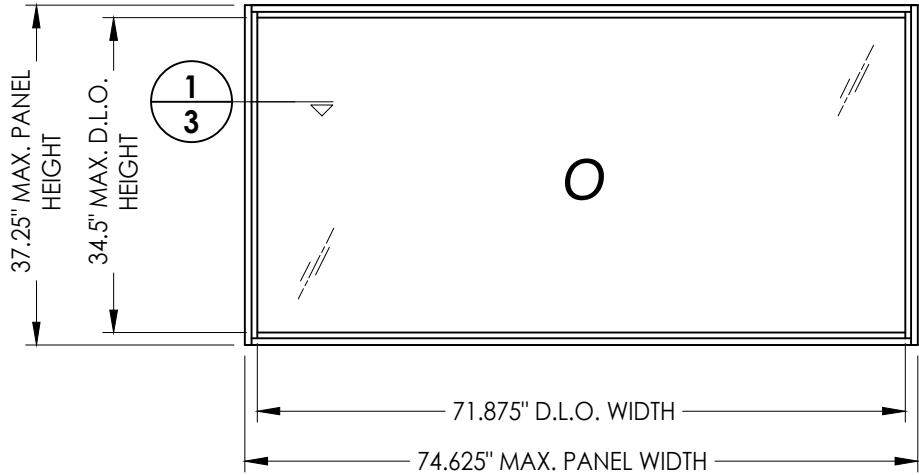
5 2 VERTICAL CROSS SECTION



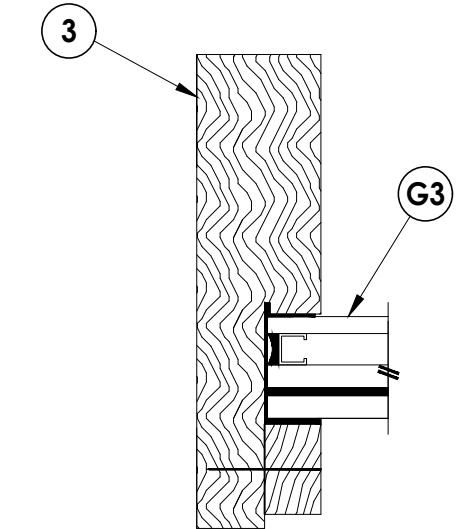
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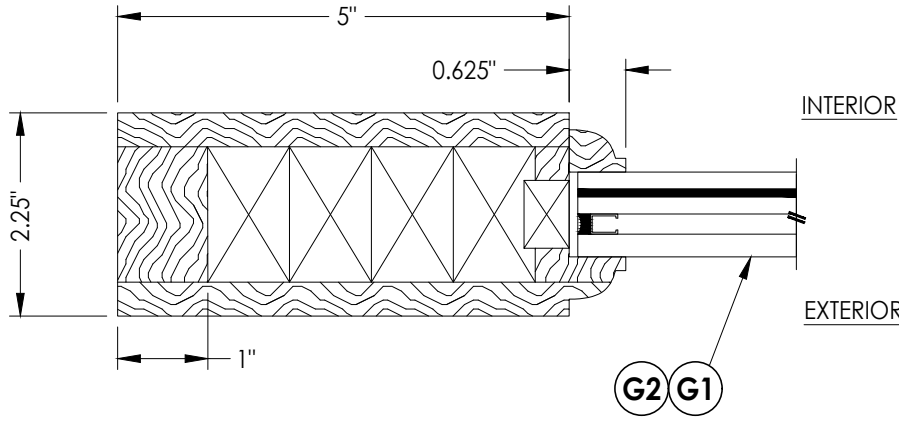
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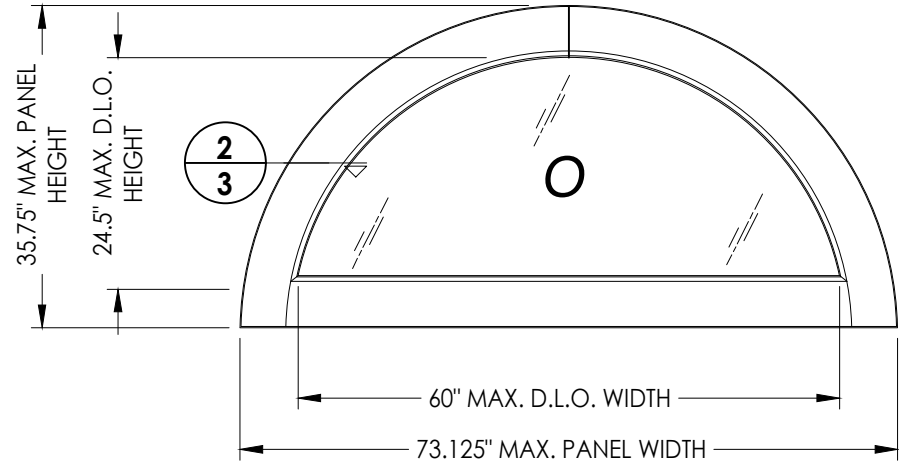
70 WOOD TRANSOM PANEL
DIRECT SET



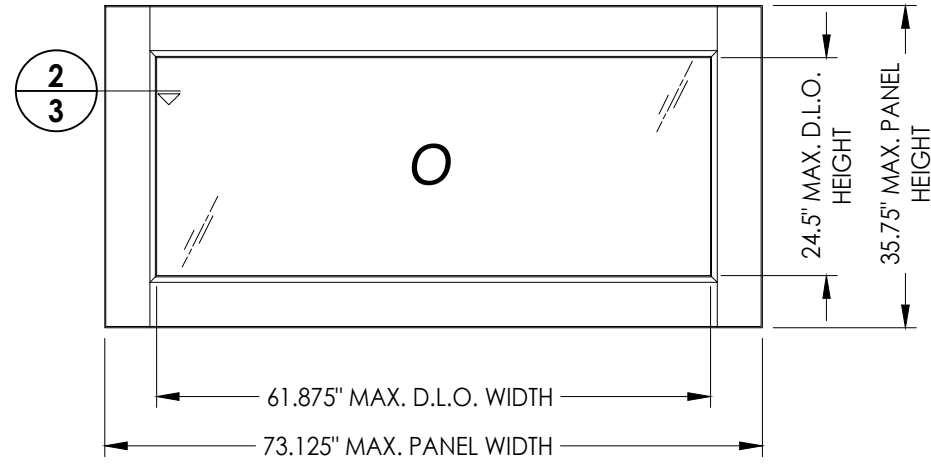
1/3 HORIZONTAL CROSS SECTION



2/3 HORIZONTAL CROSS SECTION



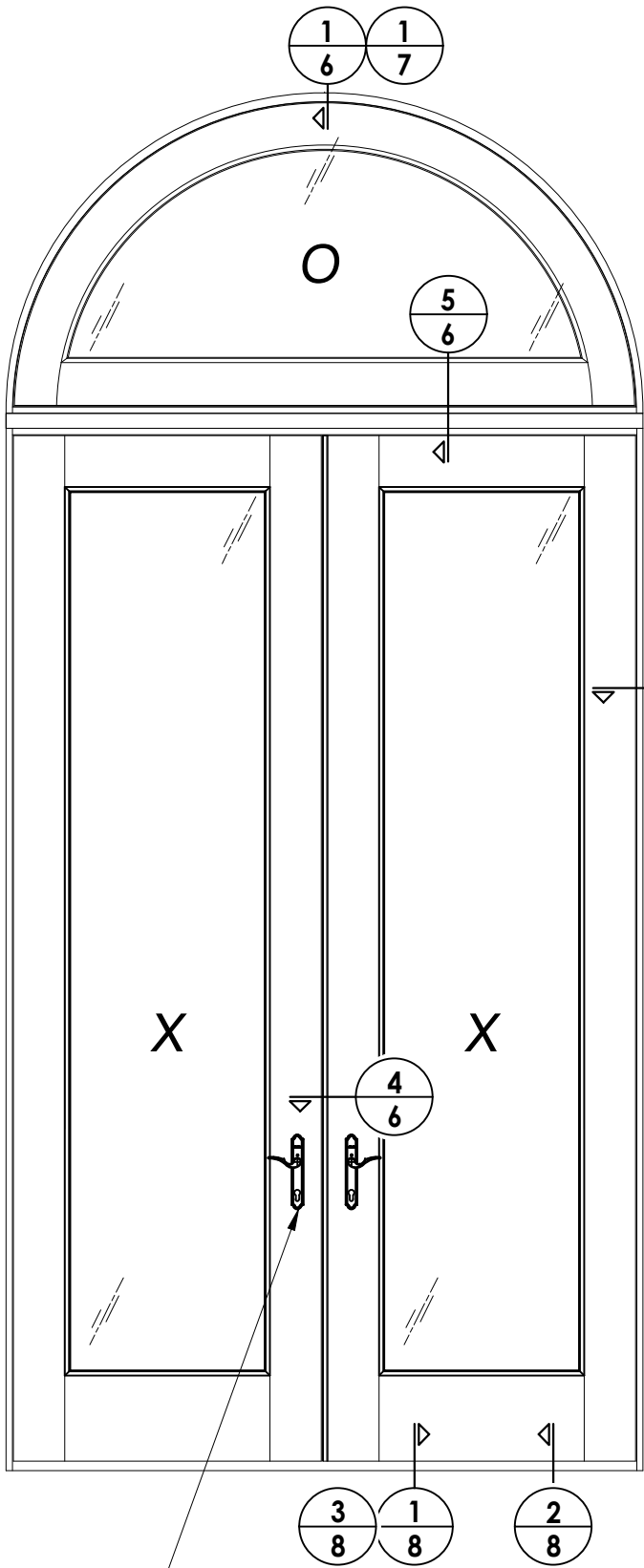
71 WOOD TRANSOM PANEL



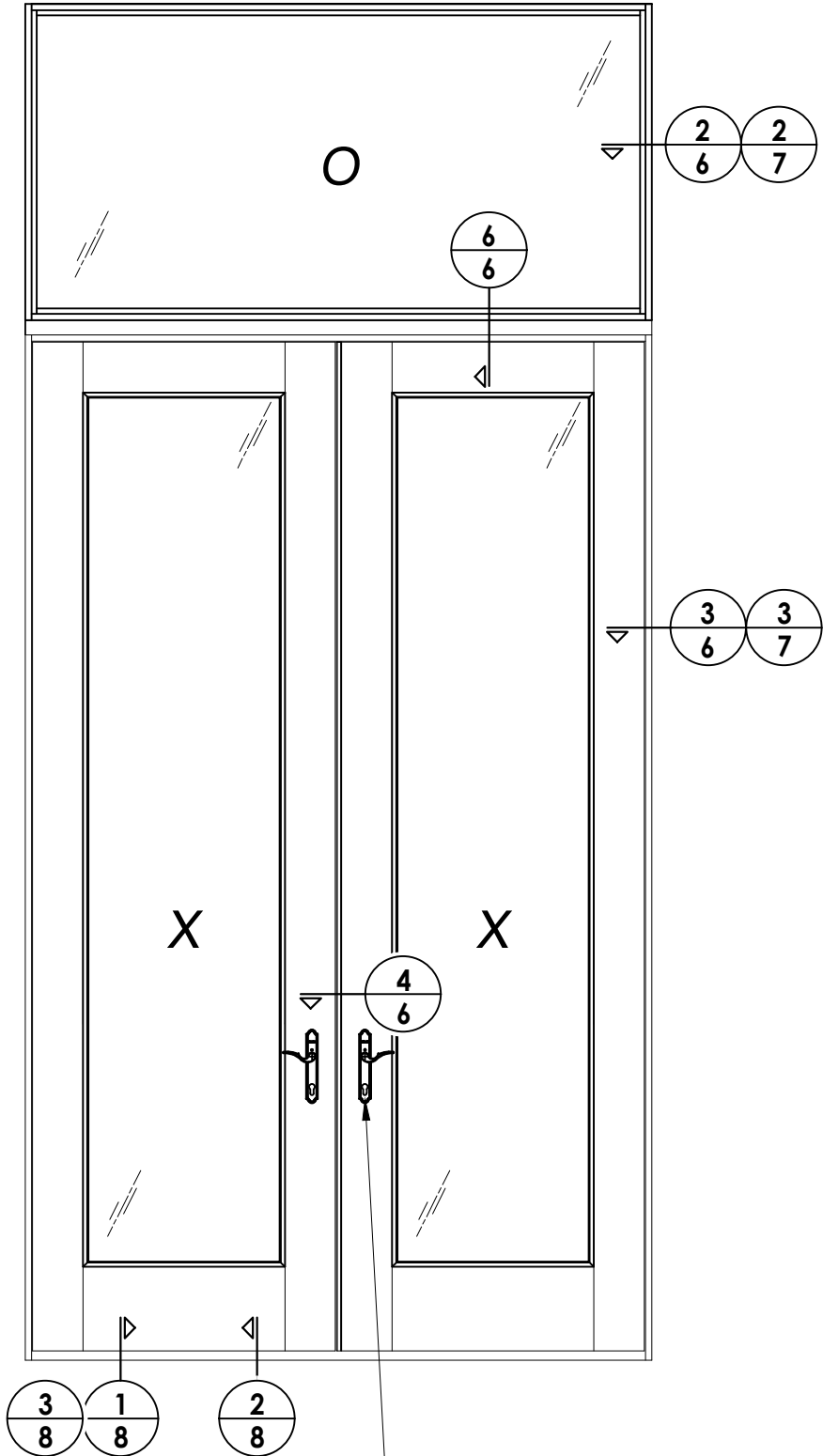
NOTE:
1. ALL FRAME CORNERS SECURED WITH (1) 1/4" X 6" LAG SCREW.

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: MILLWORK 360 WOOD DOOR				PART OR ASSEMBLY: TRANSOM PANEL DETAILS			
						NO.	DATE
						BY	
DATE: 2/14/17				REVISIONS			
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-21891.18							
SHEET 3 OF 12							

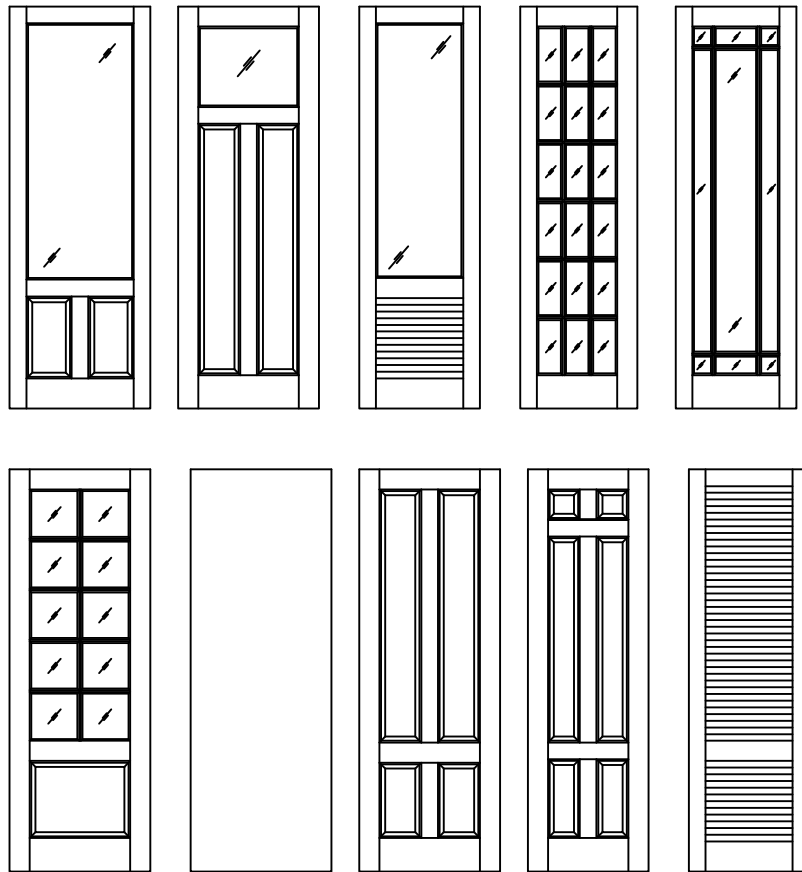
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SEE HARDWARE
CHART



SEE HARDWARE
CHART



Millwork 360 Door Panel Options

Panel options shown are for illustration and are representative only.
Surface applied muntins are used for simulated divided lites shown.

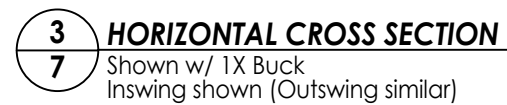
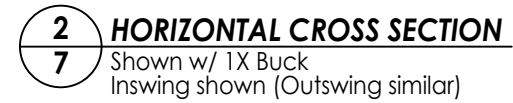
HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE	MULTIPOINT HARDWARE: HLS 9000 SERIES MULTIPOINT LOCK ACTIVE: ROUNDBOLT/SHOOTBOLT (5-PT.) INACTIVE: SHOOTBOLT (2-PT.)

PRODUCT: MILLWORK 360 WOOD DOOR		PART OR ASSEMBLY: ELEVATIONS	
		NO.	DATE
		BY	
REVISIONS			
DATE: 010/01/25			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-21891.18			
SHEET 5 OF 12			

Documents Prepared By:
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P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

1. Item #22 located 4" from each end & 1 at the center line (3 total).

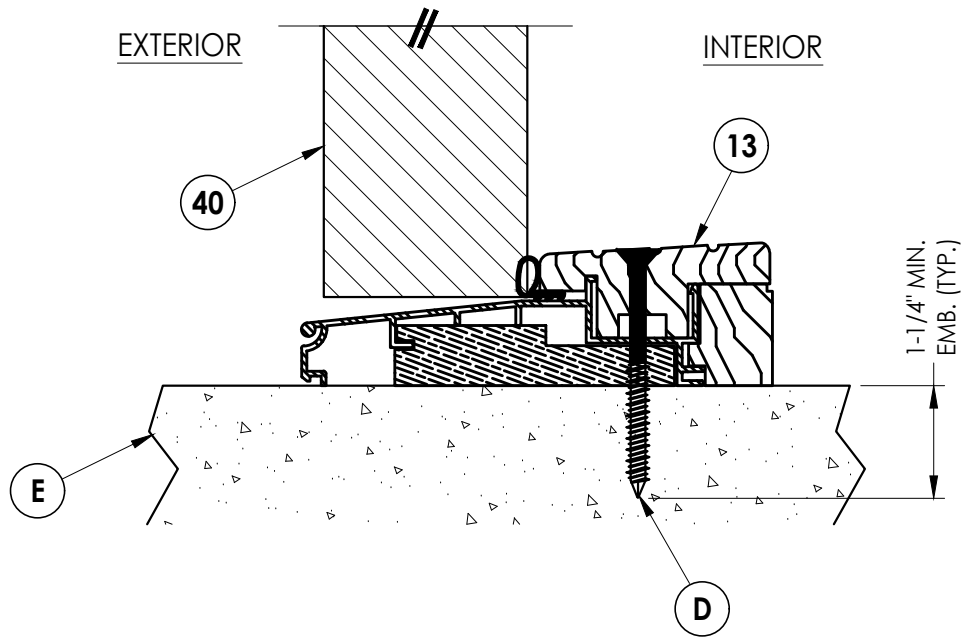


DATE:	10/01/25
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-21891.18
SHEET	7 OF 12

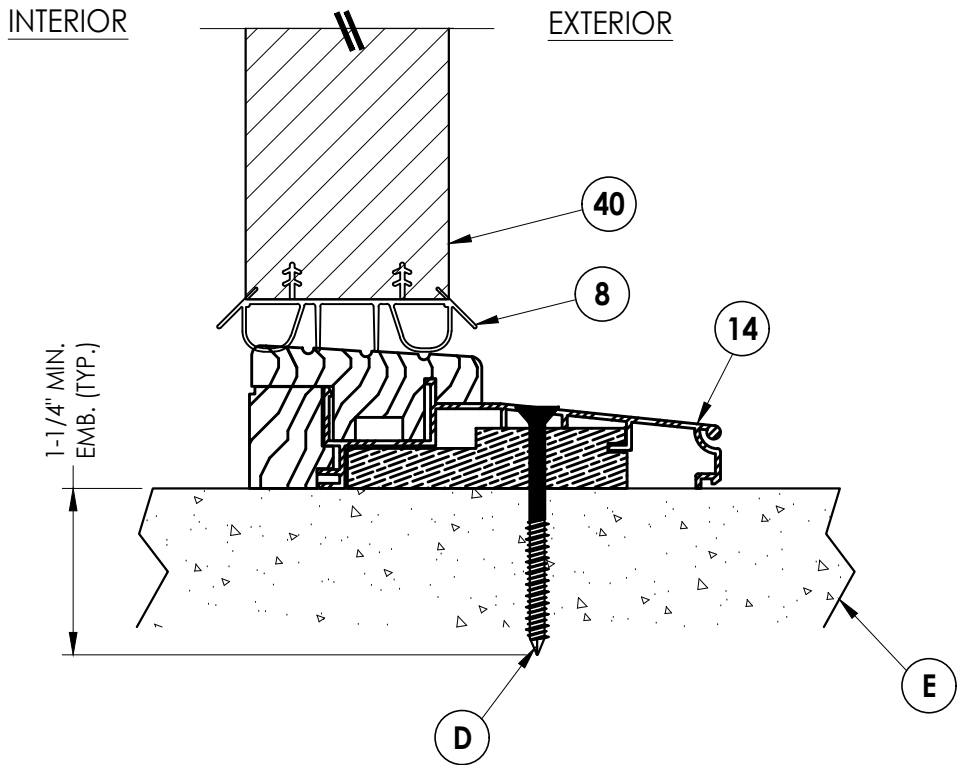
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

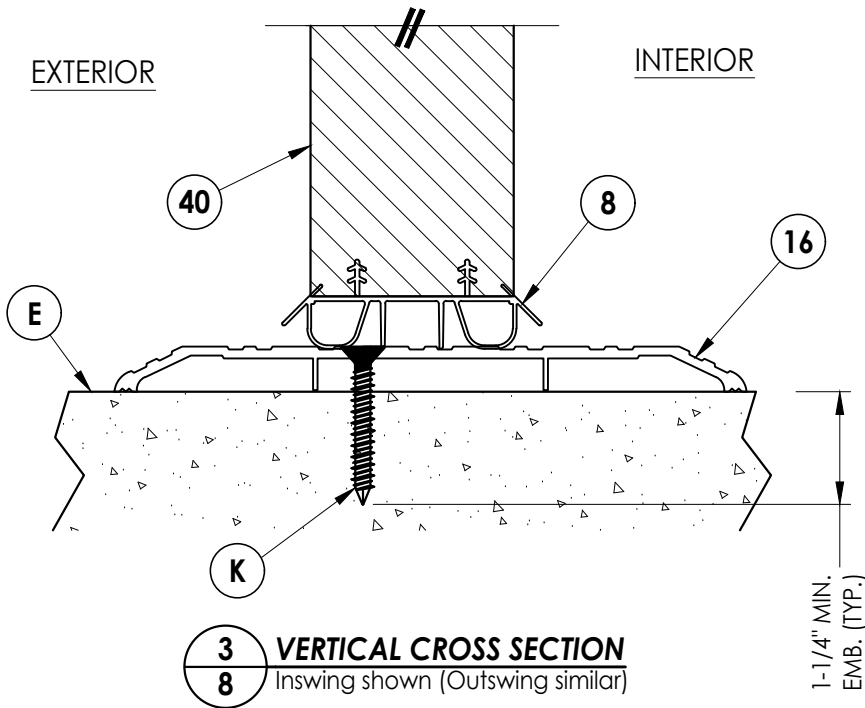
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1
8 VERTICAL CROSS SECTION
Outswing



2
8 VERTICAL CROSS SECTION
Inswing



3
8 VERTICAL CROSS SECTION
Inswing shown (Outswing similar)

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FBPE Registry No. 9813

PRODUCT:	MILLWORK 360 WOOD DOOR		
	PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLD)		

NO.	DATE	REVISIONS	
		BY	

DATE: 10/01/25

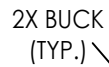
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DWG. BY: LFS

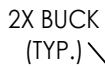
CHK. BY: RW

DRAWING NO.:
FL-21891.18

SHEET 8 OF 12



NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH
DEEP THREAD WOOD SCREWS.



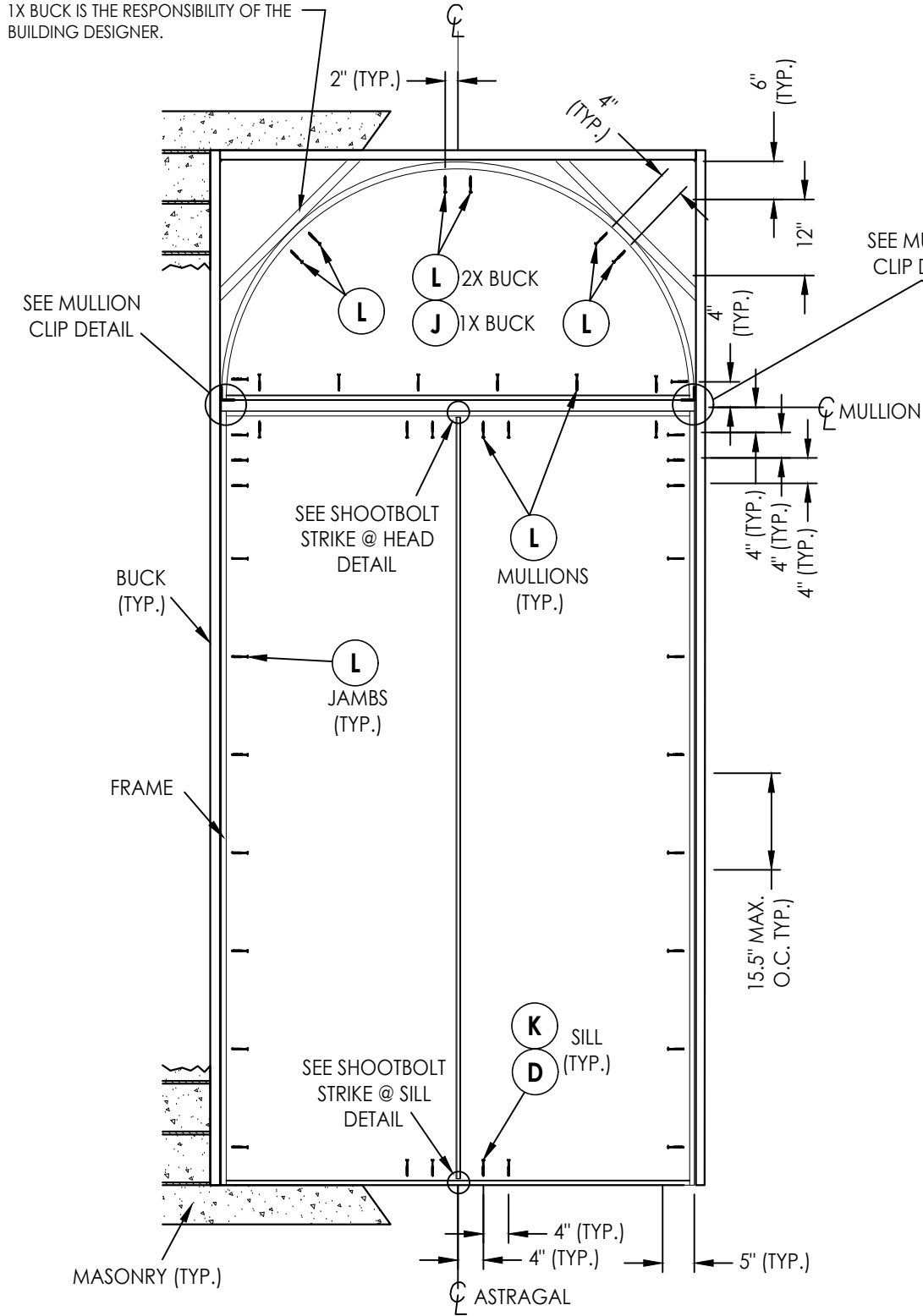
Documents Prepared By:
Lyndon F. Schmidt
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 10/01/25		REVISIONS		
SCALE: N.T.S.				
DWG. BY: LFS				
CHK. BY: RW				
DRAWING NO.: FL-21891.18				
SHEET 9 OF 12				
		NO.	DATE	BY
PRODUCT: MILLWORK 360 WOOD DOOR		PART OR ASSEMBLY: BUCK ANCHORING		

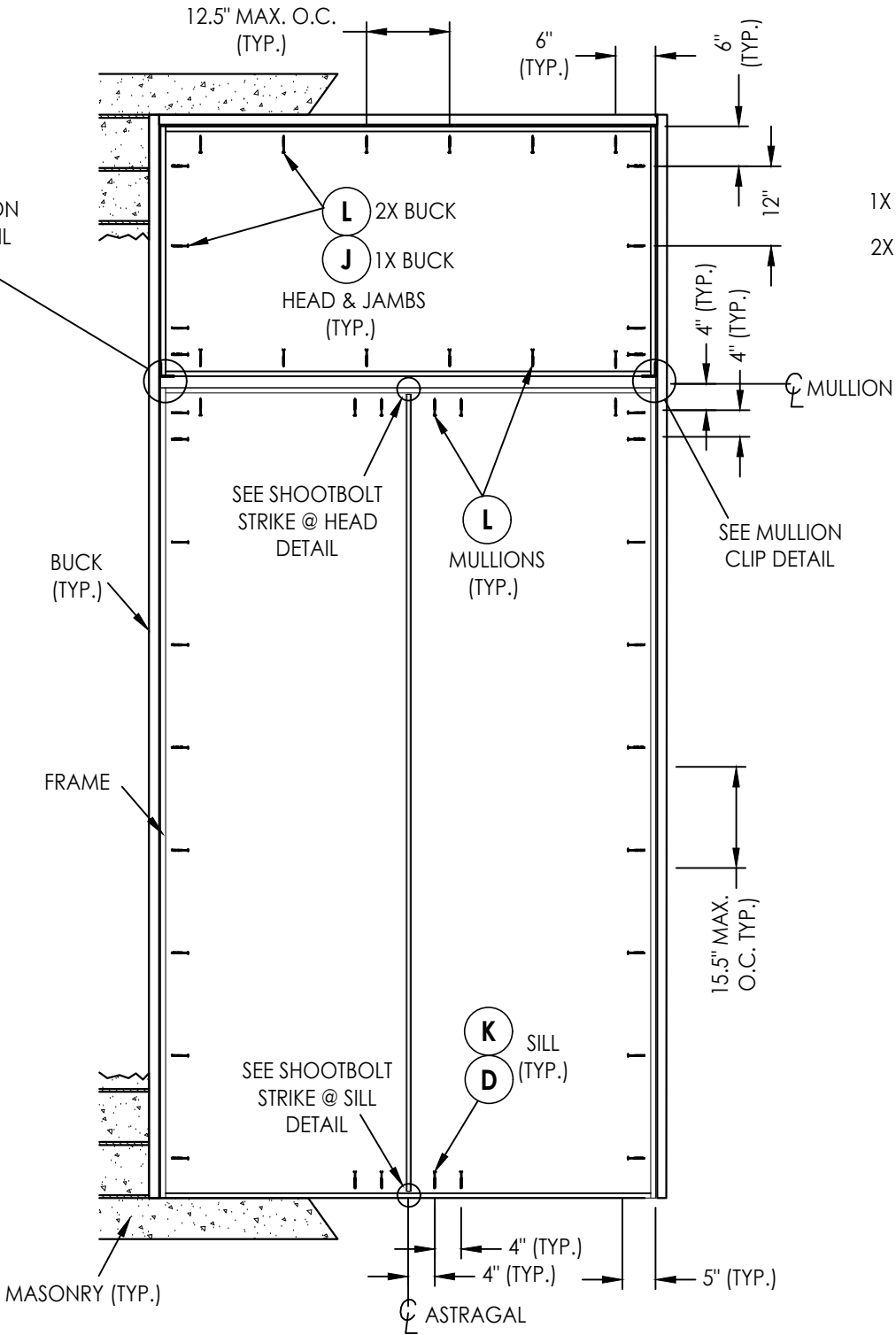
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NOTE: ANCHORING OF FRAMING TO 1X BUCK IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

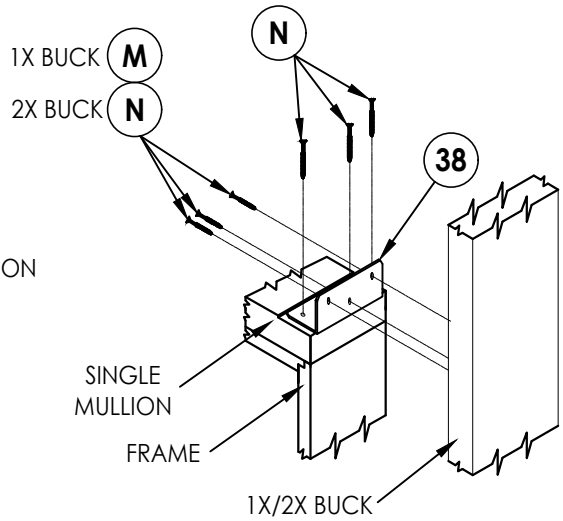


FRAME ANCHORING
O/XX (Arch Top Transom)

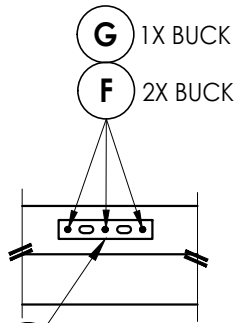
NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD WOOD SCREWS.



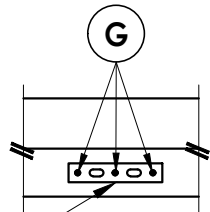
FRAME ANCHORING
O/XX



MULLION CLIP DETAIL



SHOOTBOLT STRIKE @ HEAD



SHOOTBOLT STRIKE @ SILL

Documents Prepared By:
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P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

REVISIONS				BY
NO.	DATE			

DATE: 10/01/25

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-21891.18

SHEET 10 OF 12



DATE:	10/01/25
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-21891.18
SHEET	<u>11</u> OF <u>12</u>

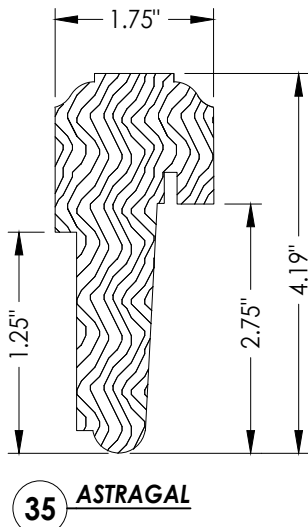
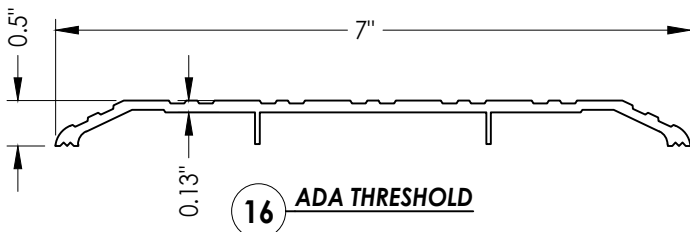
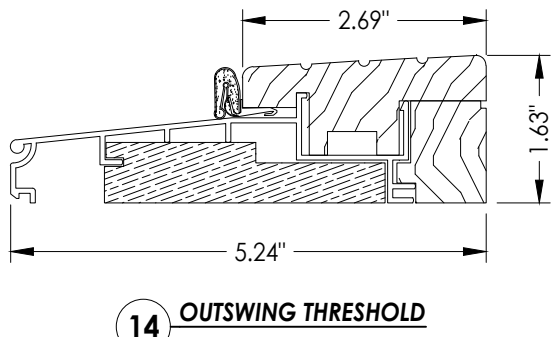
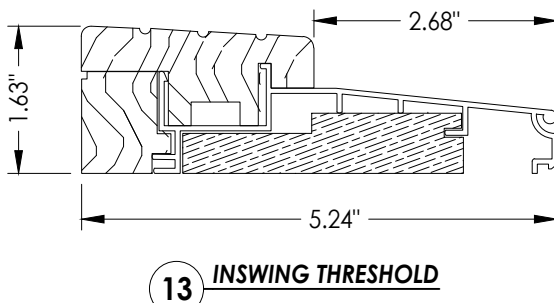
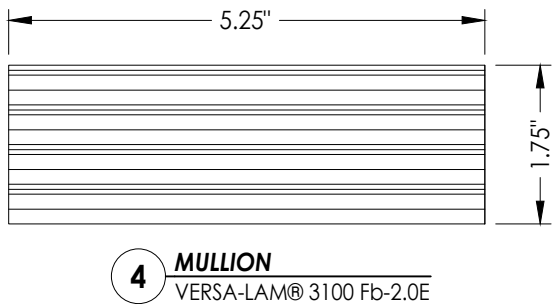
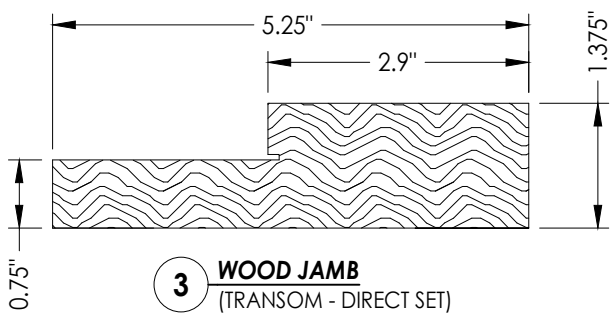
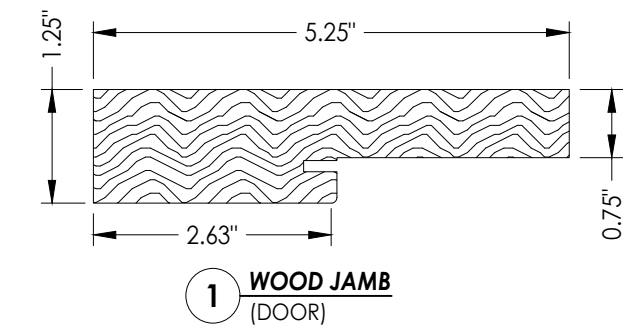
Documents Prepared By:
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#12 X 2-1/2" PFH WOOD SCREW	STEEL
G	3/16" X 3-3/4" PFH DeWALT CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
N	#10 X 1-1/2" PFH WOOD SCREW	STEEL
1	JAMB (DOOR)	WOOD
3	JAMB (TRANSOM - DIRECT SET)	WOOD
4	MULLION	LVL
5	#9 X 2-1/2" PFH SMS	STEEL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
16	ADA THRESHOLD	ALUM
22	#10 X 2" PFH WOOD SCREW	STEEL
23	#12 X 3/4" PFH WOOD SCREW	STEEL
24	#12 X 1-1/4" PFH WOOD SCREW	STEEL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
29	5" X 5" HINGE	STEEL
31	SHOOTBOLT STRIKE PLATE	STEEL
35	WOOD ASTRAGAL	WOOD
36	MULTIPOINT STRIKE PLATE	STEEL
37	MULTIPOINT ROUNDBOLT STRIKE DETAIL	STEEL
38	MULLION ANGLE CLIP (USP ML24-TZ)	STEEL
40	DOOR PANEL	WOOD
70	TRANSOM PANEL	WOOD

WOOD FRAME COMPONENTS: MAHOGANY (G = 0.55)



CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
DeWALT ULTRACON®	3/16"	1-3/4"	2-1/2"	1-1/8"

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

Documents Prepared By:
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P.E. No. 43409

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FBPE Registry No. 9813

PRODUCT:

MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:

BILL OF MATERIALS
& COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 10/01/25

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-21891.18

SHEET 12 OF 12