

Z:\2023 FBC Drawings\Millwork\360\FL-21891 R5\FL-21891.14-16.dwg

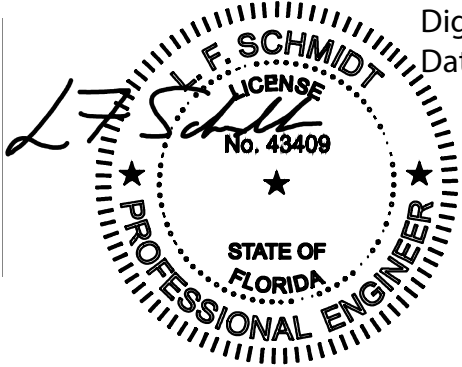


IMPACT 360 SERIES
WOOD GLAZED OR OPAQUE
NARROW STILE & RAIL
SINGLE DOOR
INSWING/OUTSWING
"IMPACT"

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.

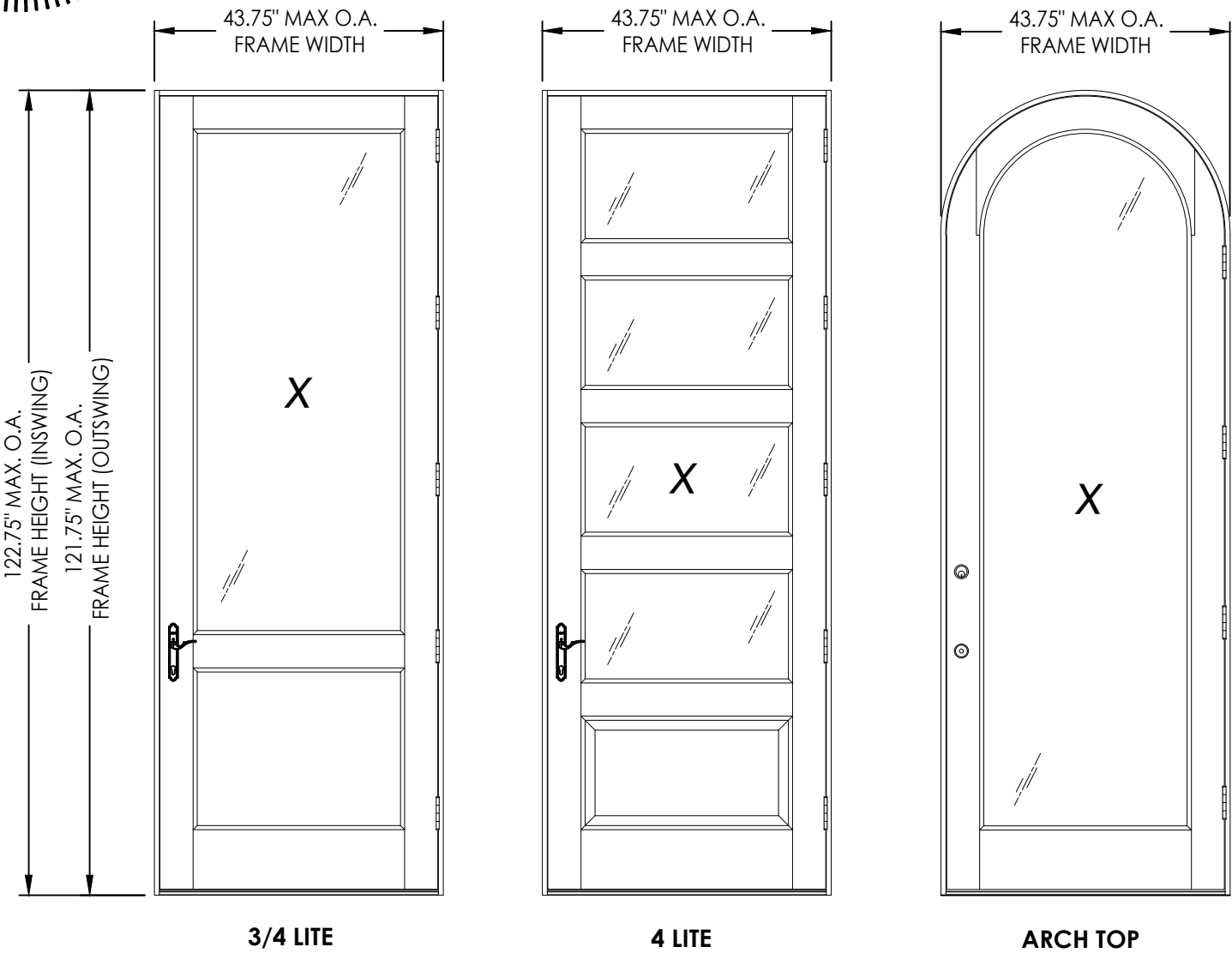
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Door Panel Details
4	Glazing & Panel Infil Details
5	Elevations
6	Horizontal & Vertical Cross Sections (2X Buck)
7	Horizontal & Vertical Cross Sections (1X Buck)
8	Vertical Cross Sections (Thresholds)
9	Buck & Frame Anchoring
10	Hardware Details
11	Bill of Materials & Components



Digitally signed by Lyndon F Schmidt
Date: 2025.10.16 14:24:49 -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



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
X (ARCH TOP)	+60.0	-70.0	+60.0	-60.0	+60.0	-60.0
X (4 LITE)	+60.0	-70.0	+60.0	-70.0	+70.0	-70.0
X (3/4 LITE, OPAQUE)	+60.0	-70.0	+60.0	-85.0	+75.0	-85.0

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

PRODUCT:
MILLWORK 360
WOOD DOOR

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

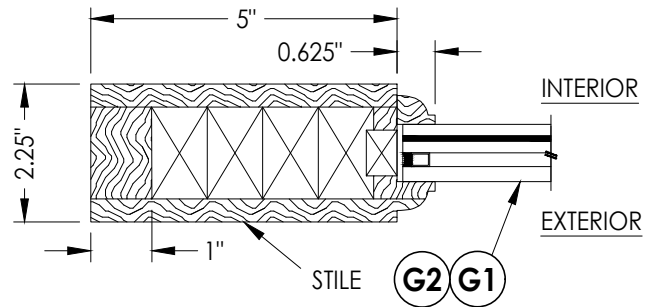
REVISIONS

DATE: 10/01/25
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-21891.14
SHEET 1 OF 11

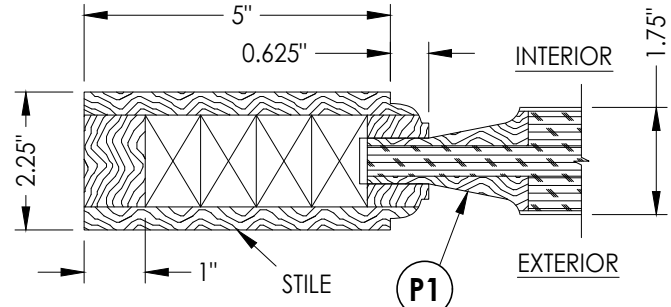
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

© 2025 R.W. BUILDING CONSULTANTS INC.

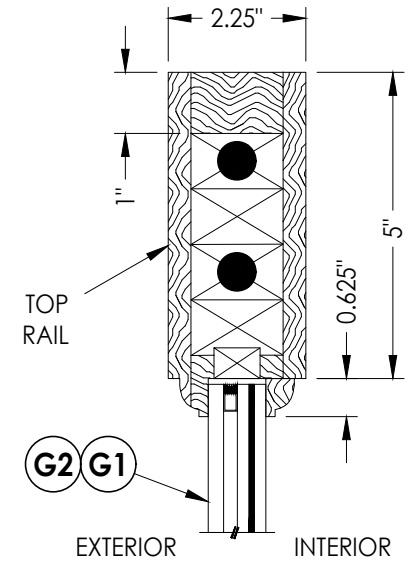
Z:\2023 FBC Drawings\Millwork\360\FL-21891 R5\FL-21891.14-16.dwg



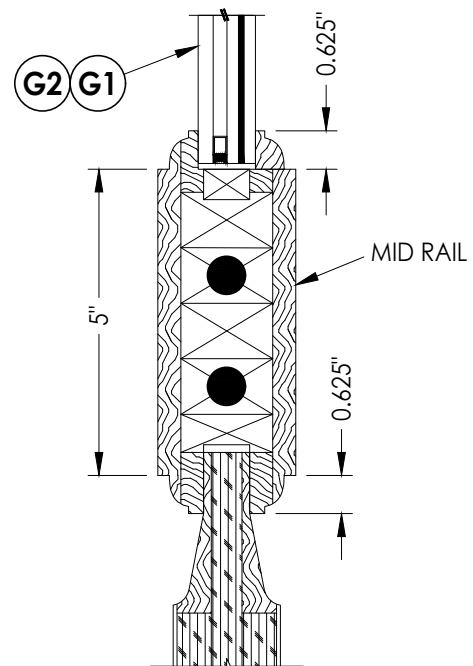
1 HORIZONTAL CROSS SECTION
2



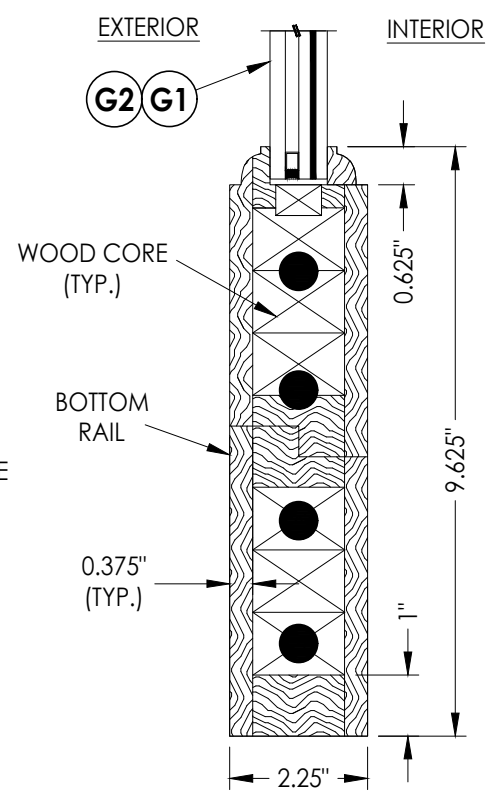
2 HORIZONTAL CROSS SECTION
2



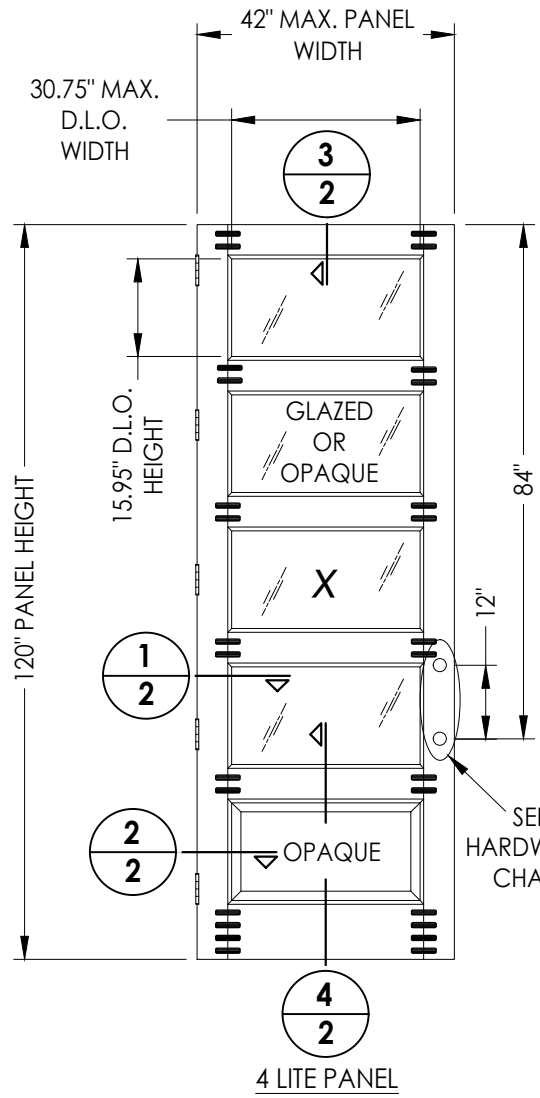
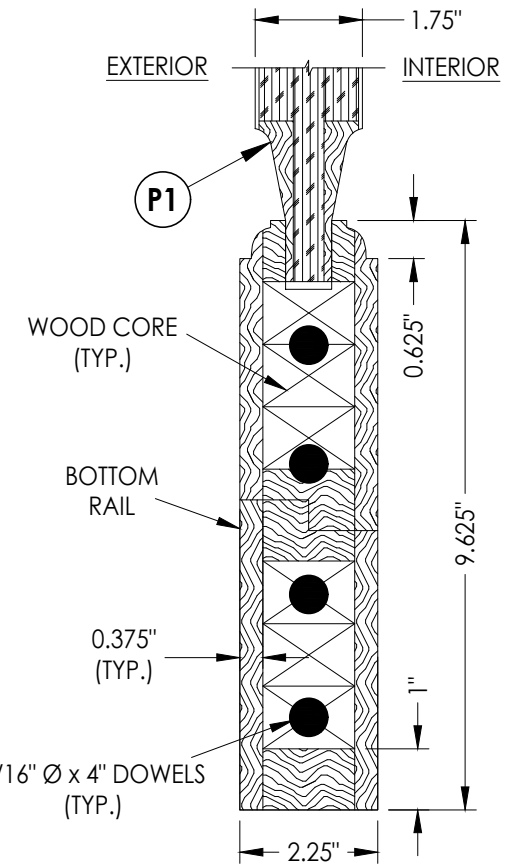
3 VERTICAL CROSS SECTION
2



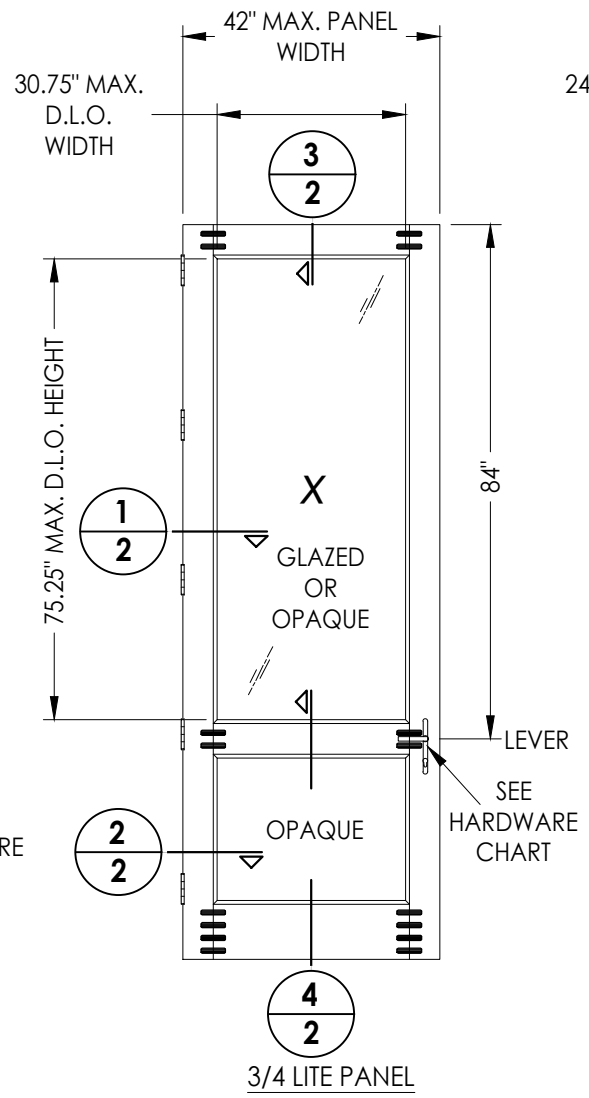
4 VERTICAL CROSS SECTION
2



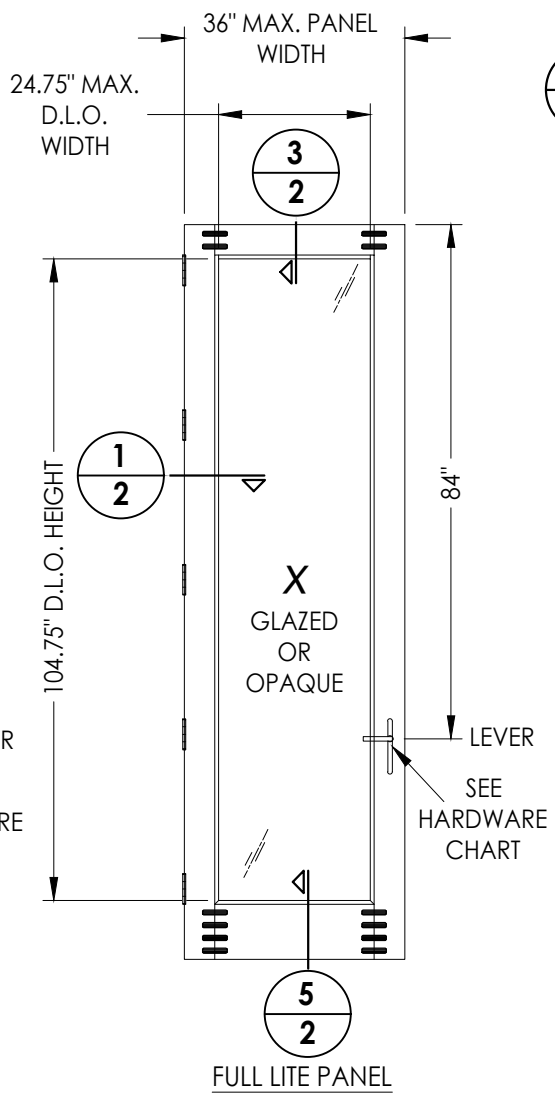
5 VERTICAL CROSS SECTION
2



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)

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

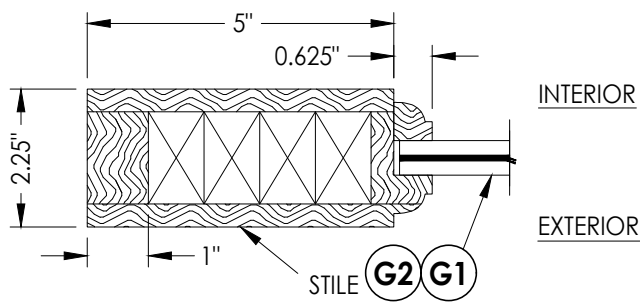
PRODUCT:
MILLWORK 360
WOOD DOOR

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

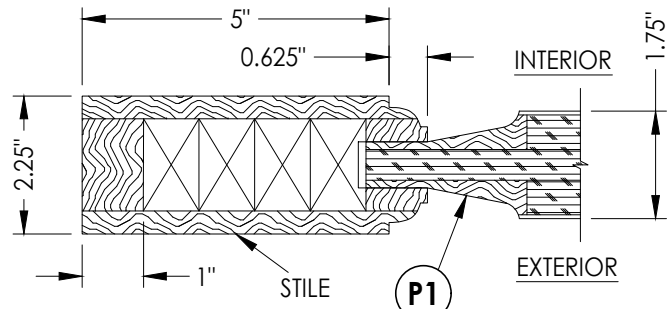
PART OR ASSEMBLY:
DOOR PANEL
DETAILS

REVISIONS		BY
NO.	DATE	

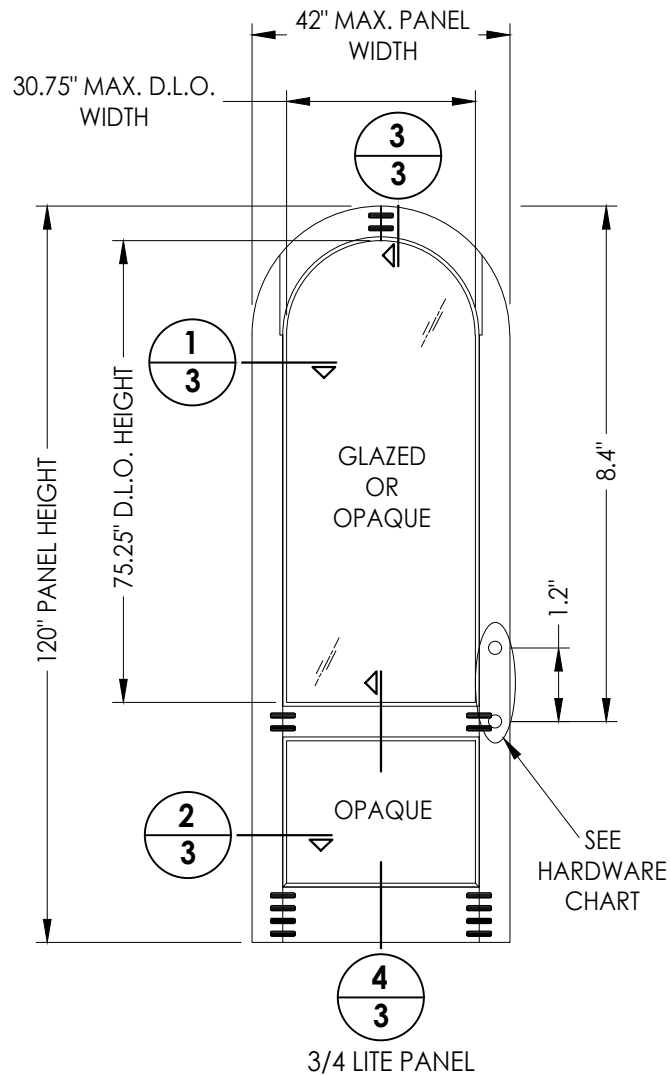
DATE: 10/01/25
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-21891.14
SHEET 2 OF 11



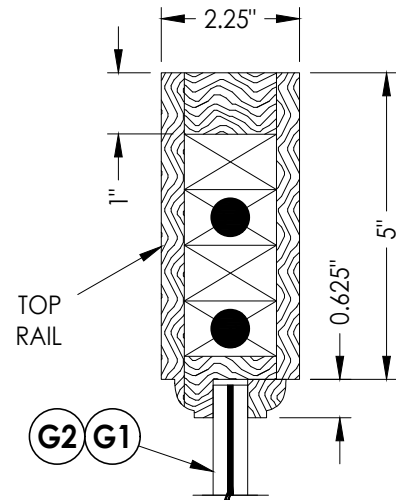
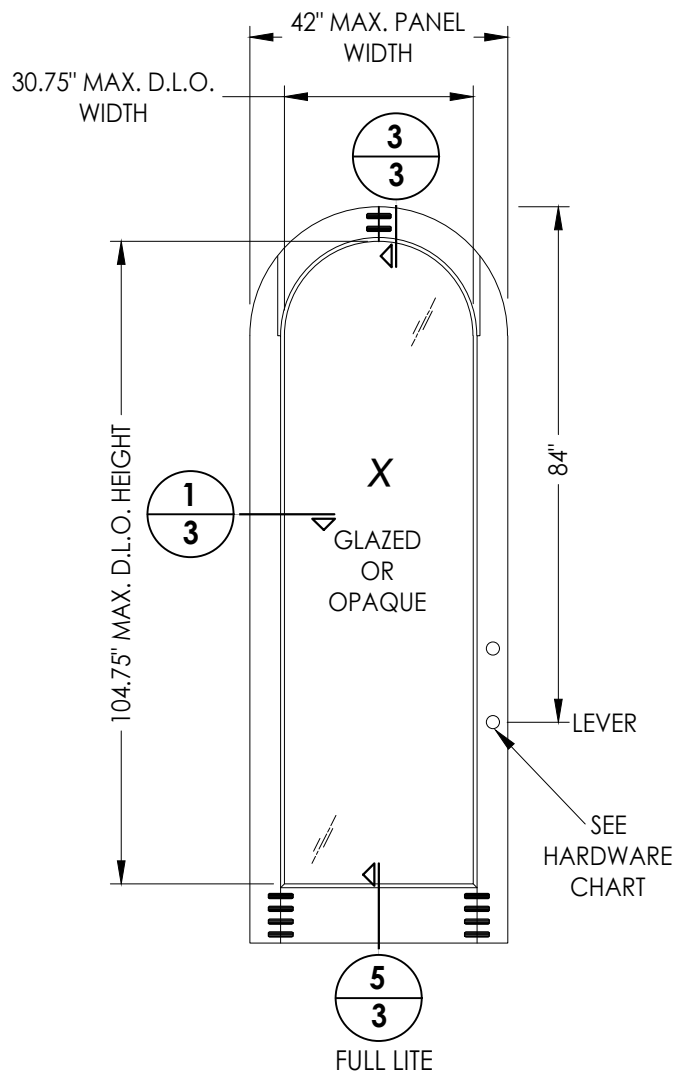
1
3 HORIZONTAL CROSS SECTION



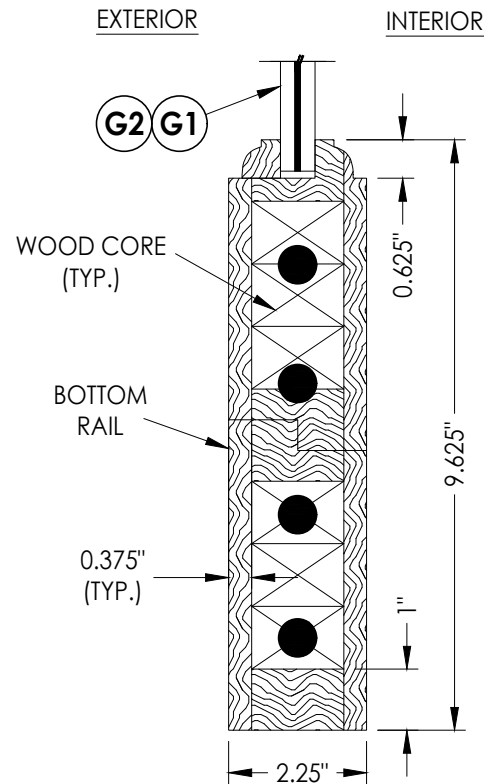
2
3 HORIZONTAL CROSS SECTION



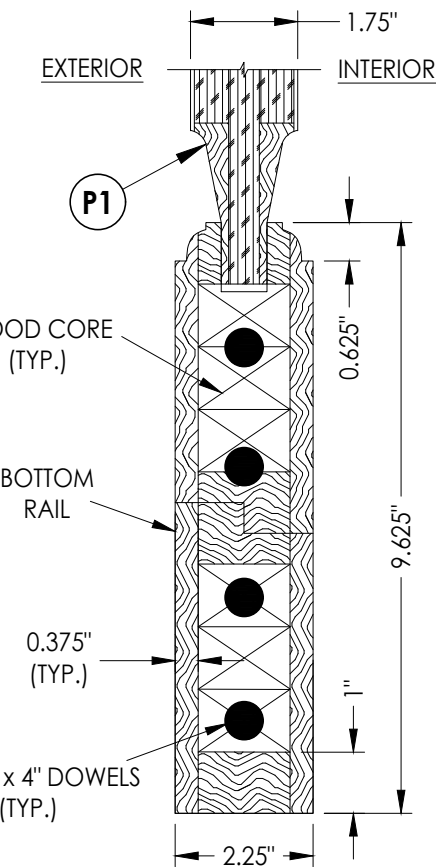
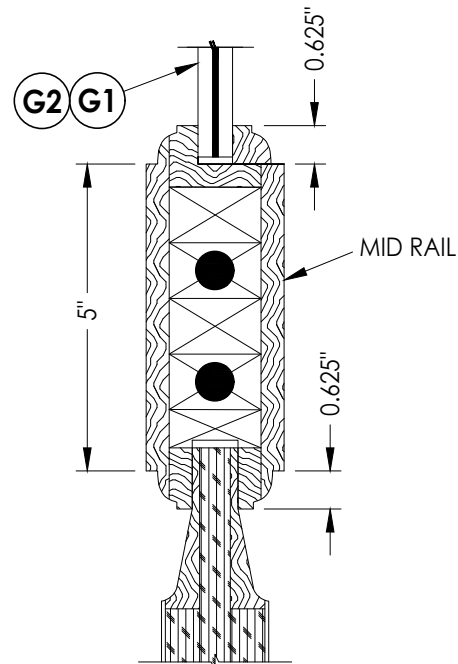
41 WOOD DOOR PANEL
Glazed or Opaque (MILLWORK 360)



3
3 VERTICAL CROSS SECTION



5
3 VERTICAL CROSS SECTION



4
3 VERTICAL CROSS SECTION

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

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

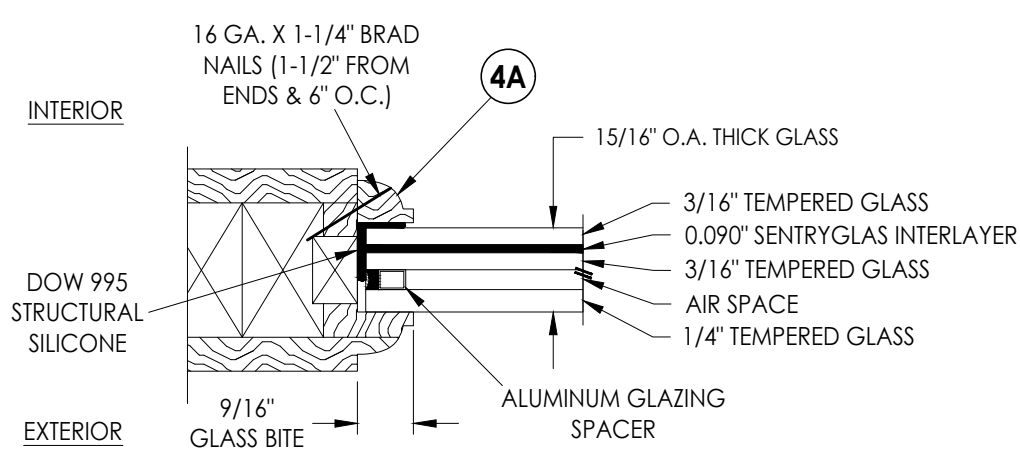
PRODUCT:
MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
DOOR PANEL
DETAILS

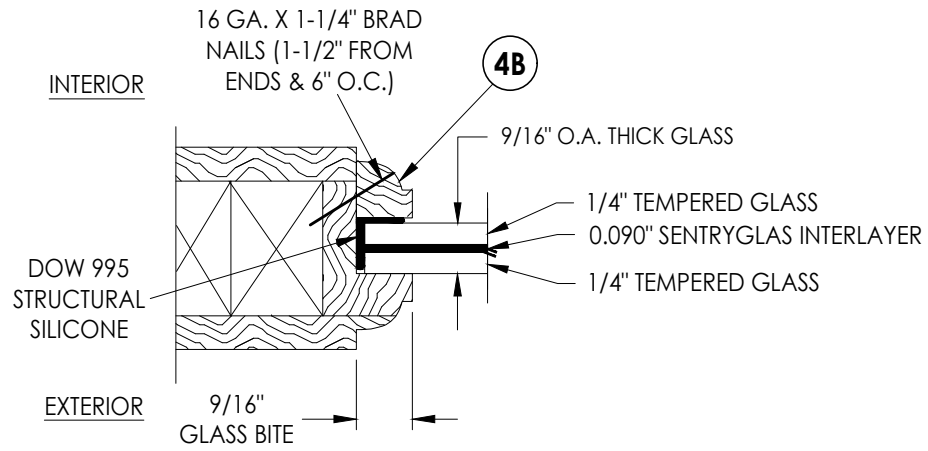
DATE: 3/09/17
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-21891.14
SHEET 3 OF 11

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

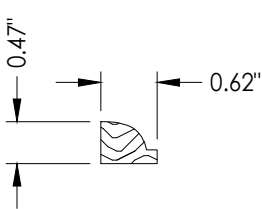
Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.14-16.dwg



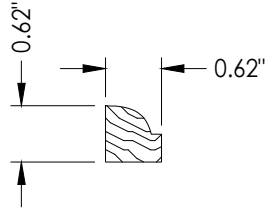
G1 GLAZING DETAIL



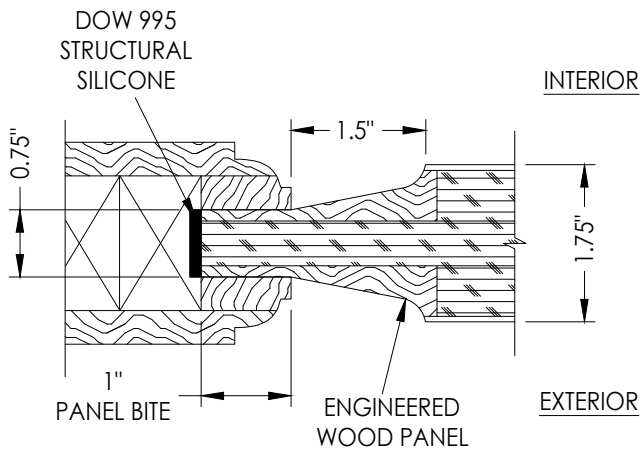
G2 GLAZING DETAIL



4A GLAZING BEAD



4B GLAZING BEAD



P1 PANEL INFIL DETAIL

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

RW 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:

GLAZING & PANEL INFIL
DETAILS

DATE: 10/01/25

SCALE: N.T.S.

DWG. BY: LFS

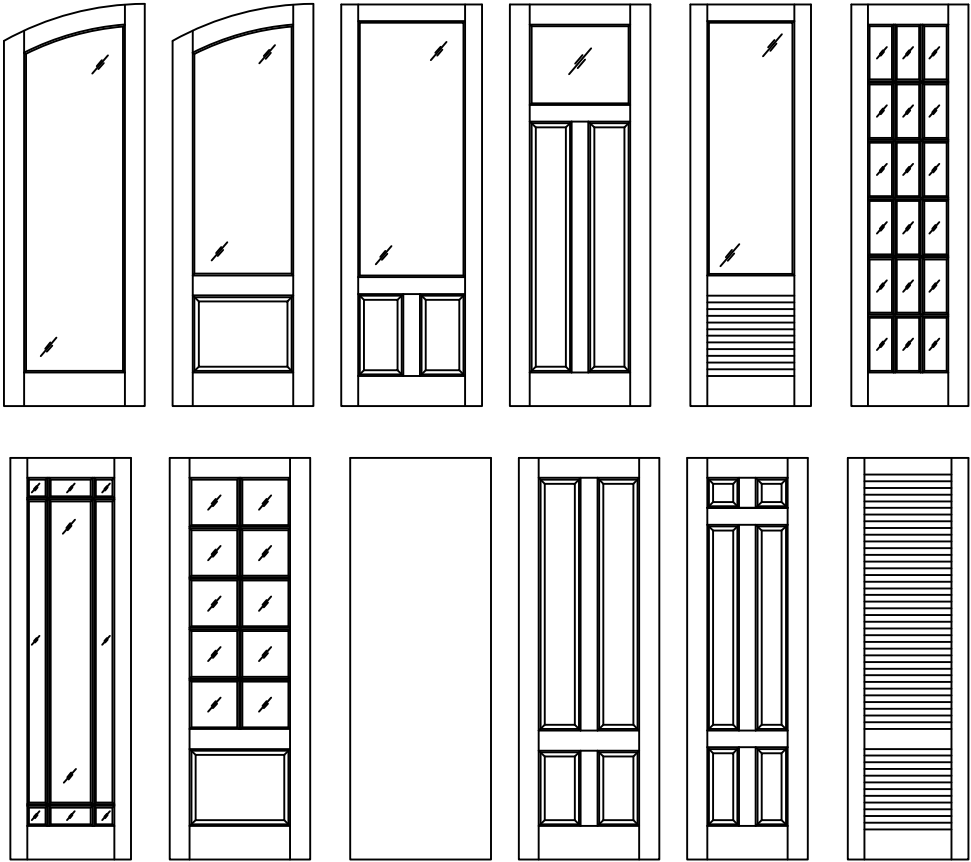
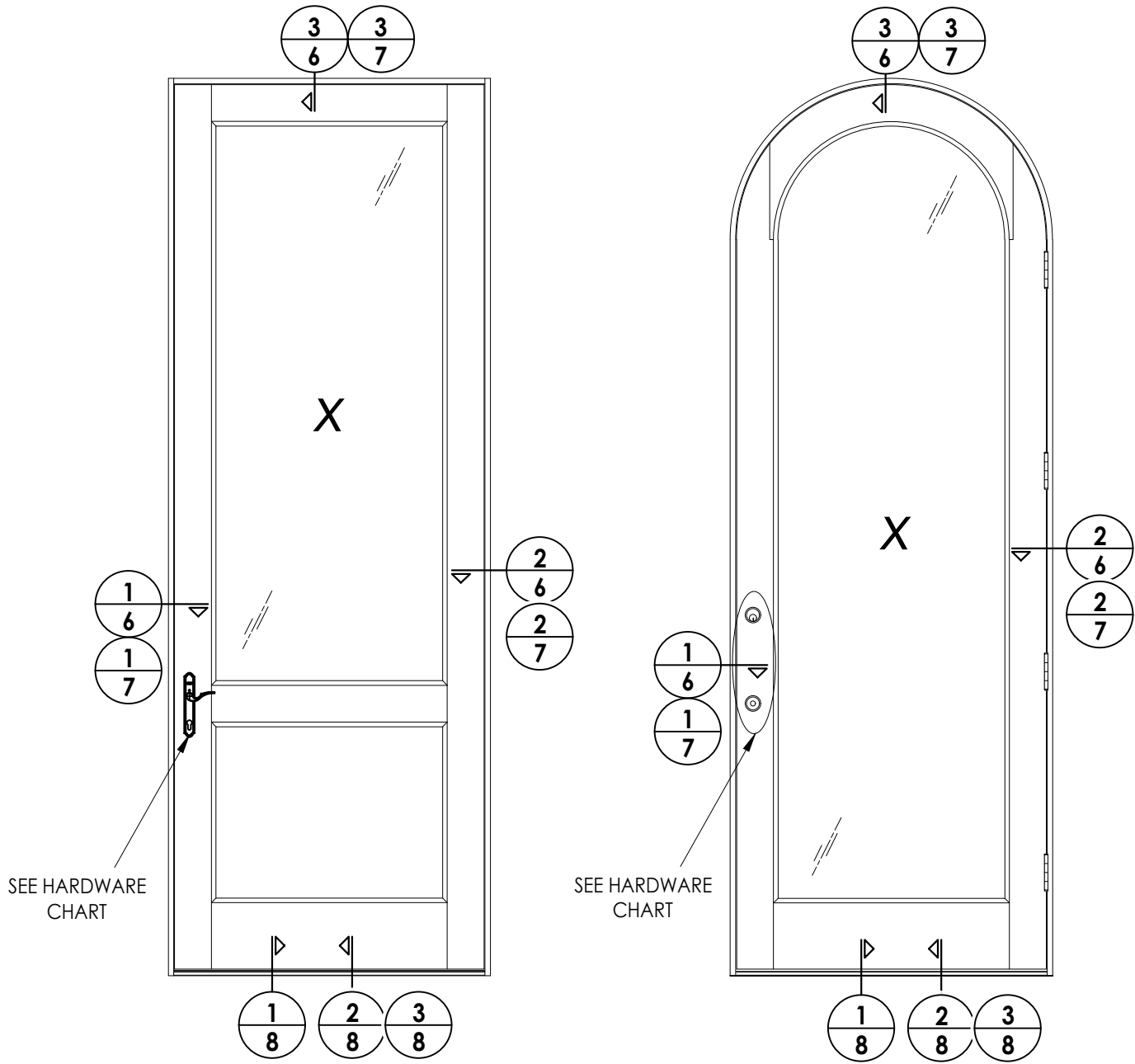
CHK. BY: RW

DRAWING NO.:

FL-21891.14

SHEET 4 OF 11

Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.14-16.dwg



Millwork 360 Narrow Stile & Rail 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	MAX. DESIGN PRESSURE
HOPPE	MULTIPOINT HARDWARE: HLS 9000 SERIES MULTIPOINT LOCK ROUNDBOLT/SHOOTBOLT (5-PT.)	+75/-85 PSF
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)	+60/-70 PSF

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

PRODUCT: MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
ELEVATIONS

DATE: 10/01/25

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-21891.14

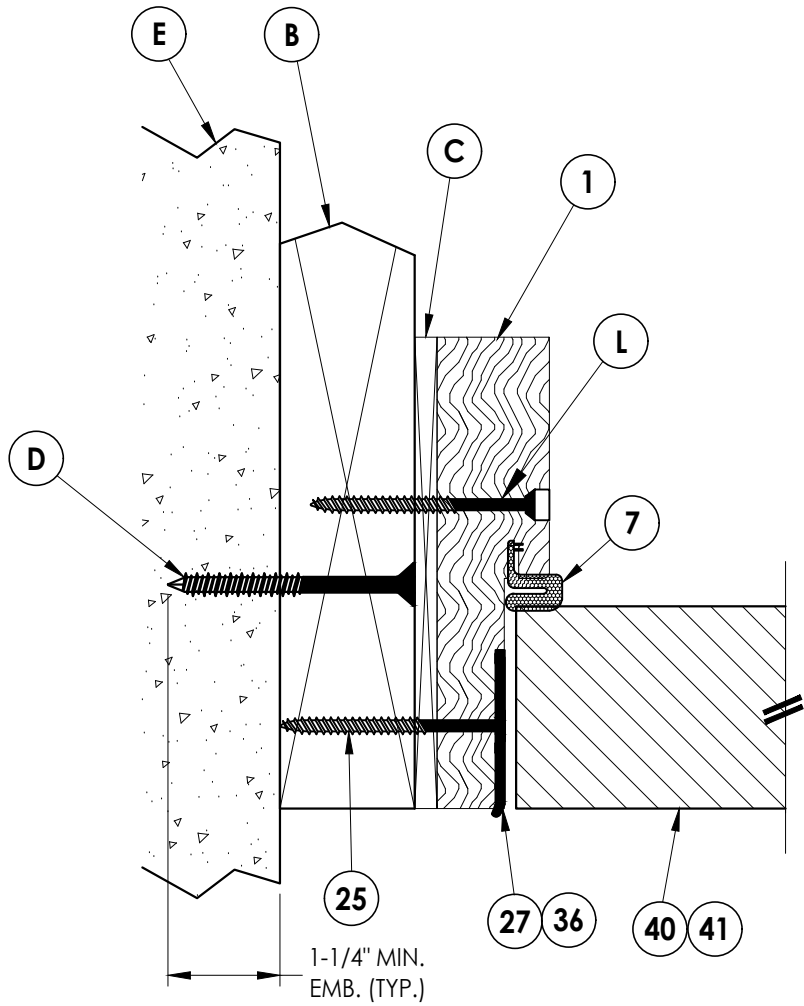
SHEET 5 OF 11

REVISIONS

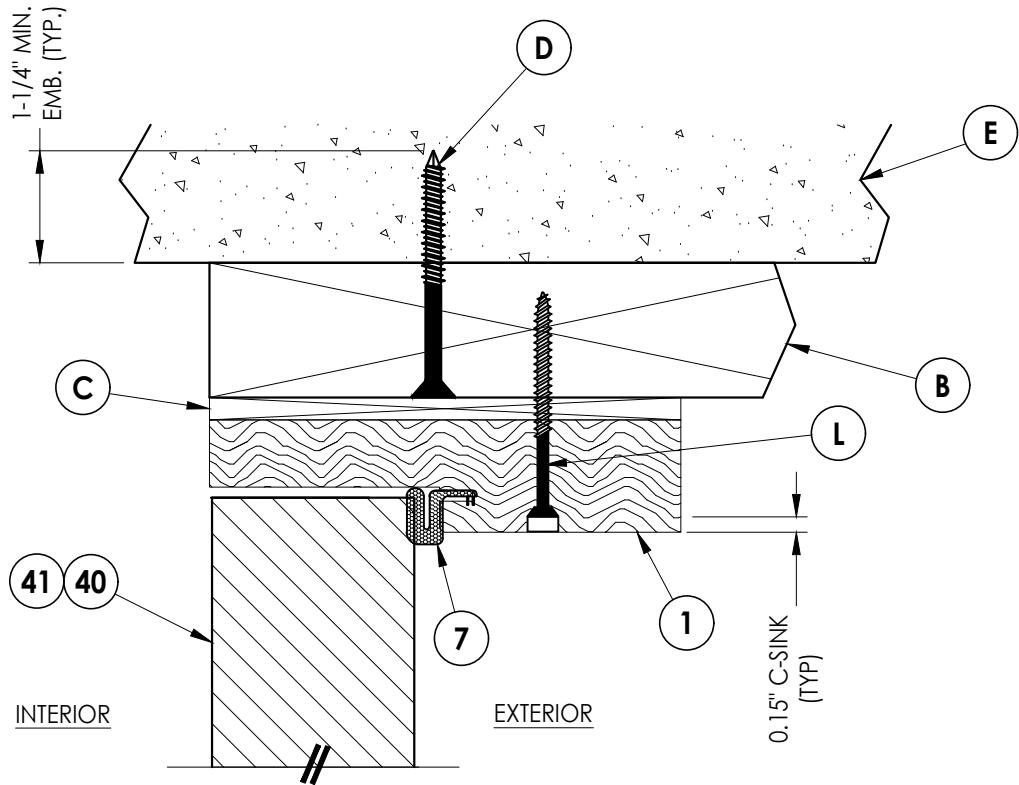
NO. DATE BY

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 98113

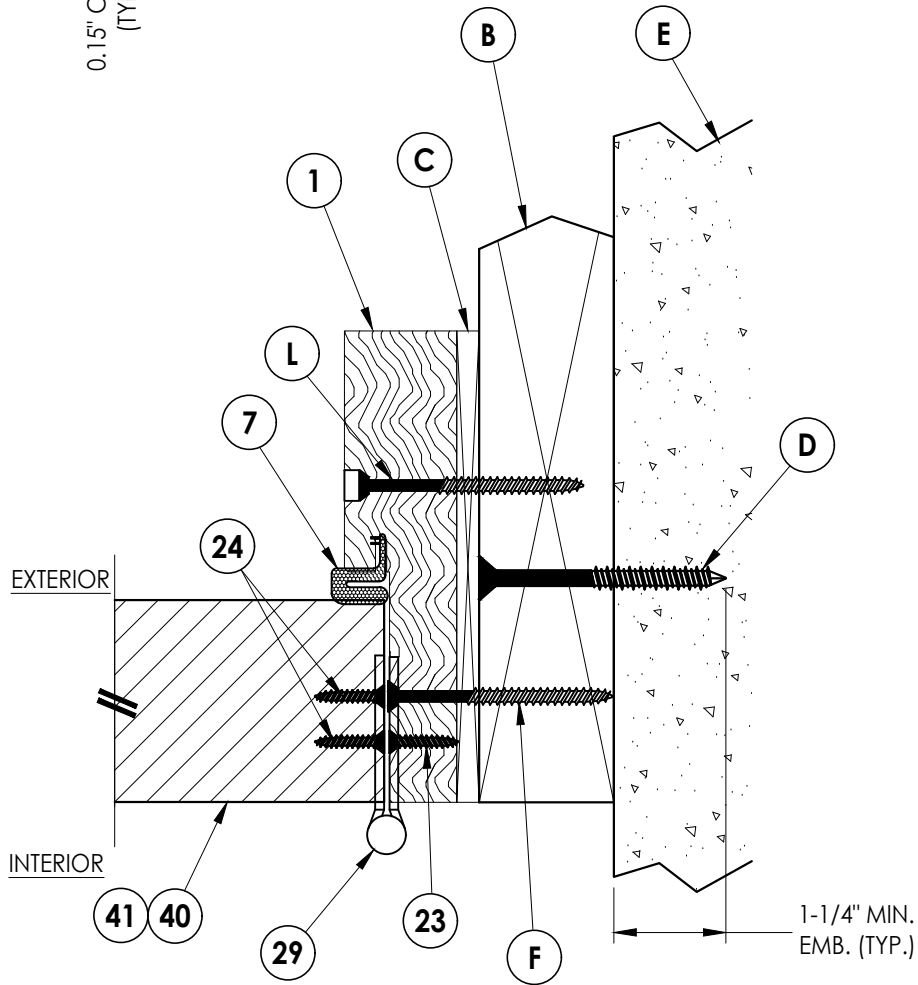
Z:\2023 FBC Drawings\Millwork\360\FL-21891 R5\FL-21891.14-16.dwg



1 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck
Inswing shown (Outswing similar)



3 VERTICAL CROSS SECTION
Shown w/ 2X Buck
Inswing shown (Outswing similar)

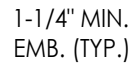


2 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck
Inswing shown (Outswing similar)

PRODUCT:		MILLWORK 360 WOOD DOOR	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
DATE:		10/01/25	
SCALE:		N.T.S.	
DWG. BY:		LFS	
CHK. BY:		RW	
DRAWING NO.:		FL-21891.14	
SHEET		6	OF 11

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

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



1 **HORIZONTAL CROSS SECTION**
7 Shown w/ 1X sub-buck
 Inswing shown (Outswing similar)



3 VERTICAL CROSS SECTION
7 Shown w/ 1X sub-buck
 Inswing shown (Outswing similar)



2 **HORIZONTAL CROSS SECTION**
7 Shown w/ 1X sub-buck
 Inswing shown (Outswing similar)

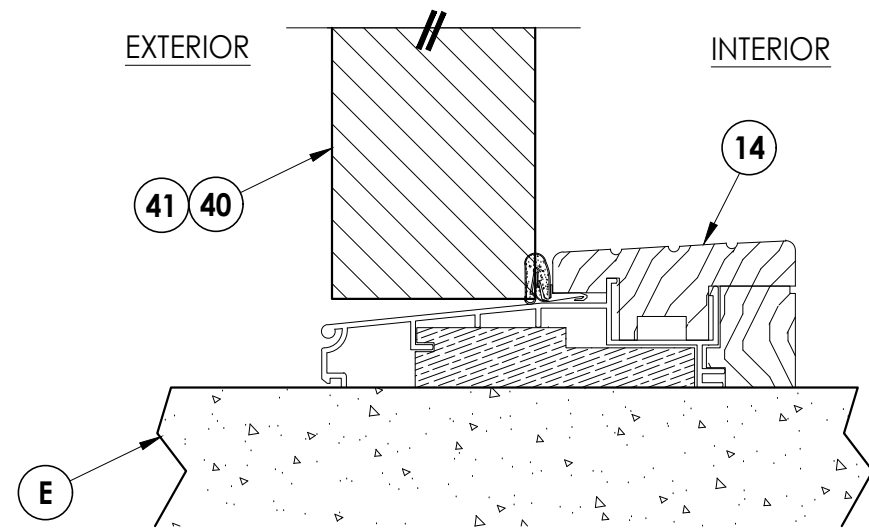
[illegible]

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

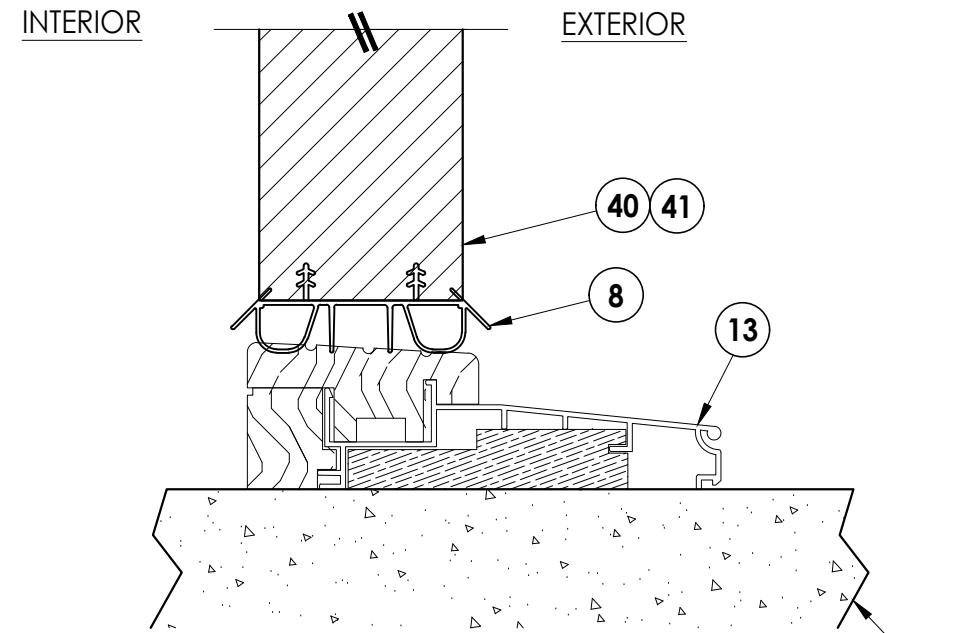
MILLWORK 360
WOOD DOOR

PART OR ASSEMBLY:
**HORIZONTAL &
CROSS SECTIONS**

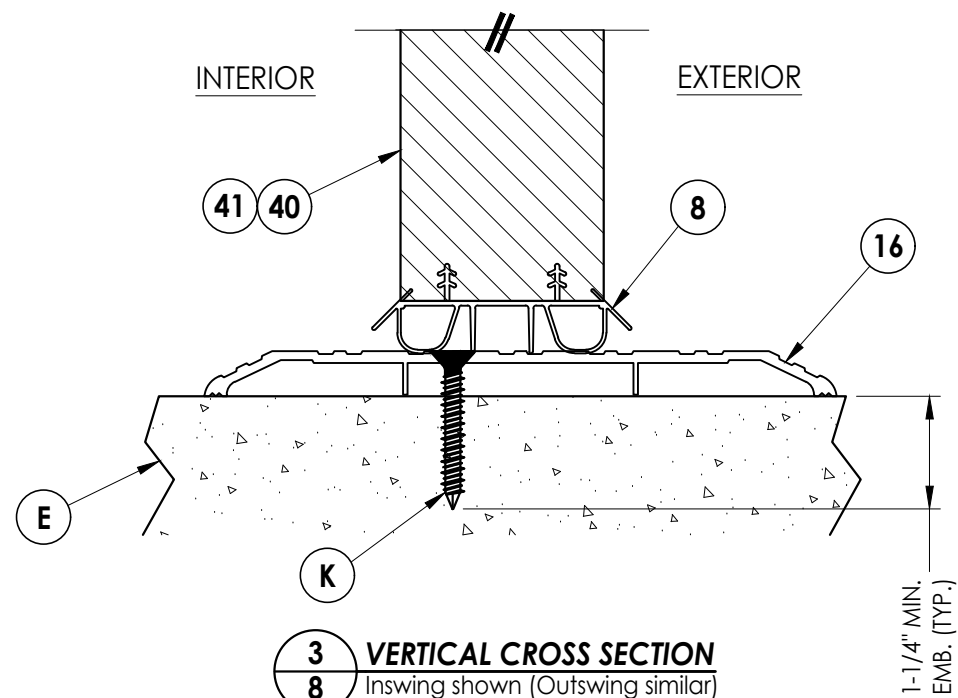
R^qW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



1 8 VERTICAL CROSS SECTION Outswing



2 **VERTICAL CROSS SECTION**
8 Inswing



3 **VERTICAL CROSS SECTION**
8 Inswing shown (Outswing similar)

[illegible]

DATE: 10/01/25

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

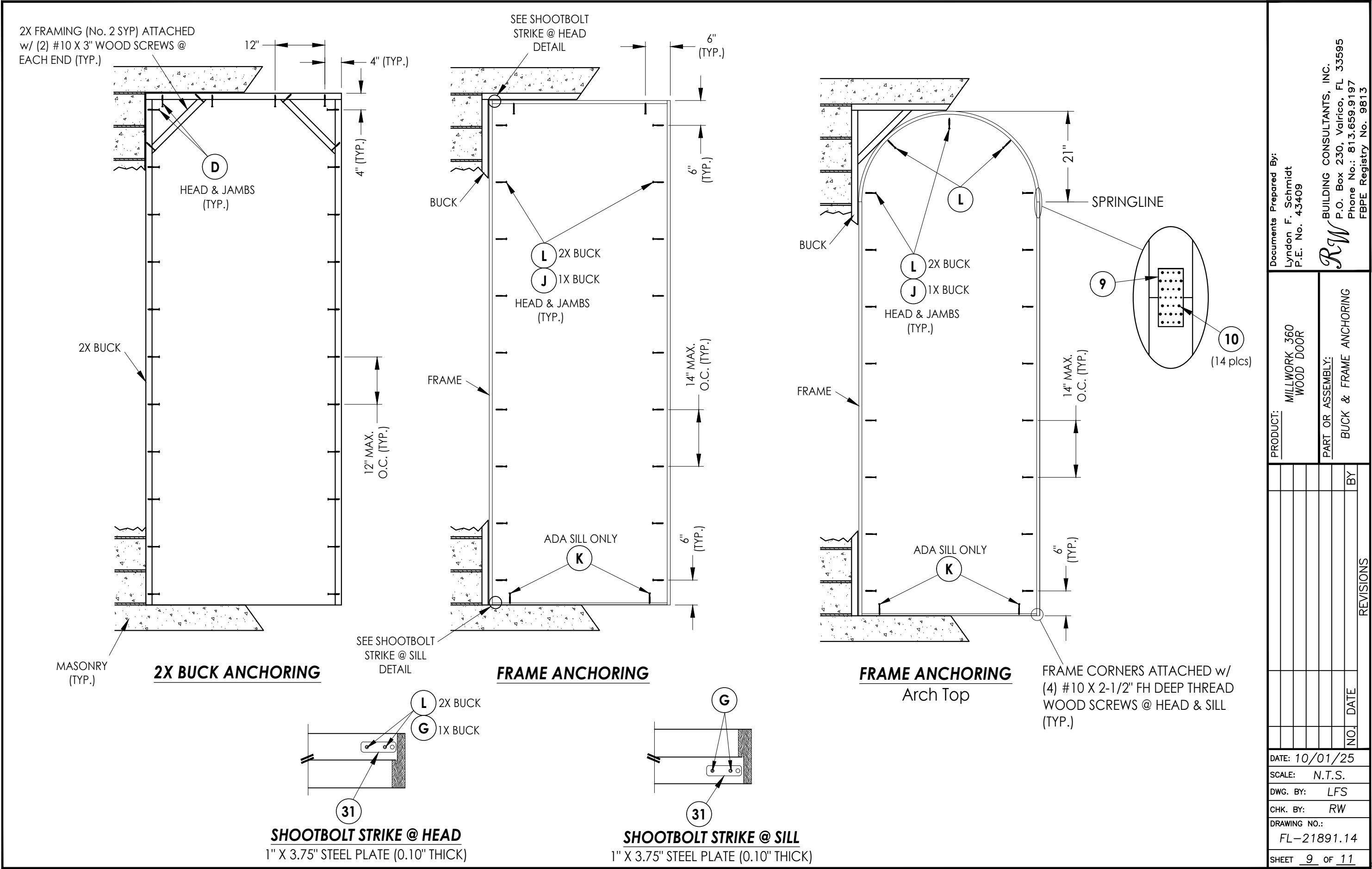
FL-21891.14

SHEET 8 OF 11

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

R^qW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

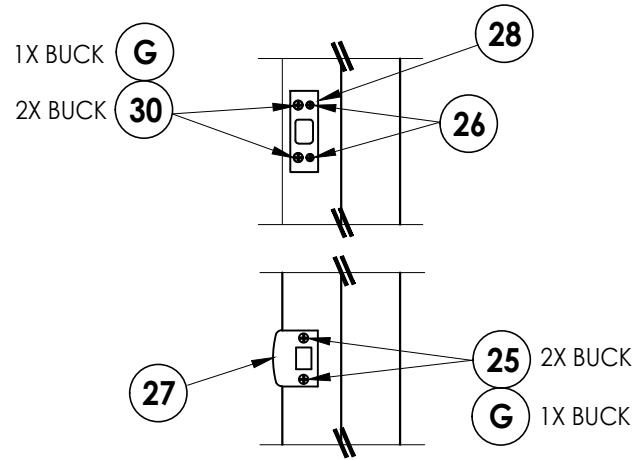
Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.14-16.dwg



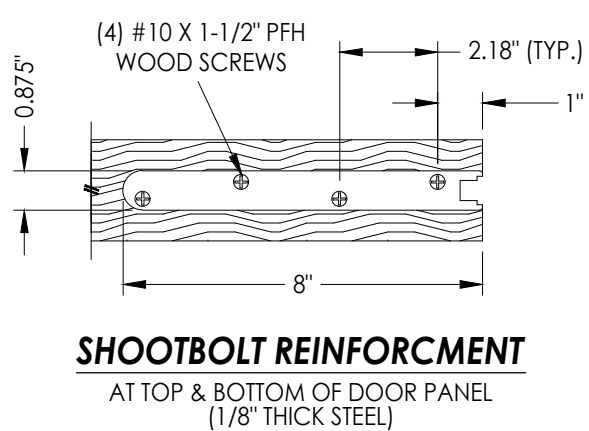
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

REVISIONS

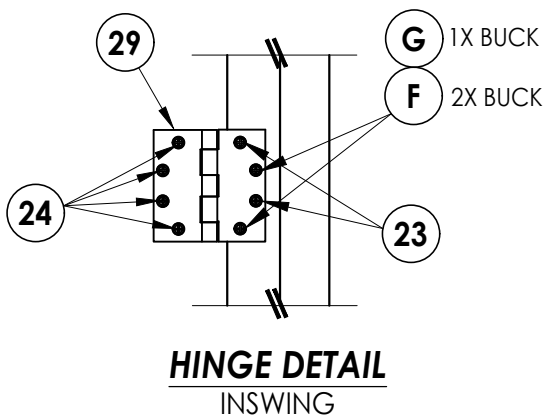
Z:\2023 FBC Drawings\Millwork 360\FL-21891 R5\FL-21891.14-16.dwg



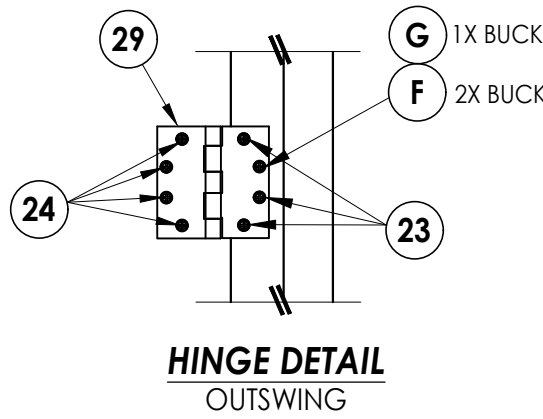
LATCH & DEADBOLT STRIKE DETAIL



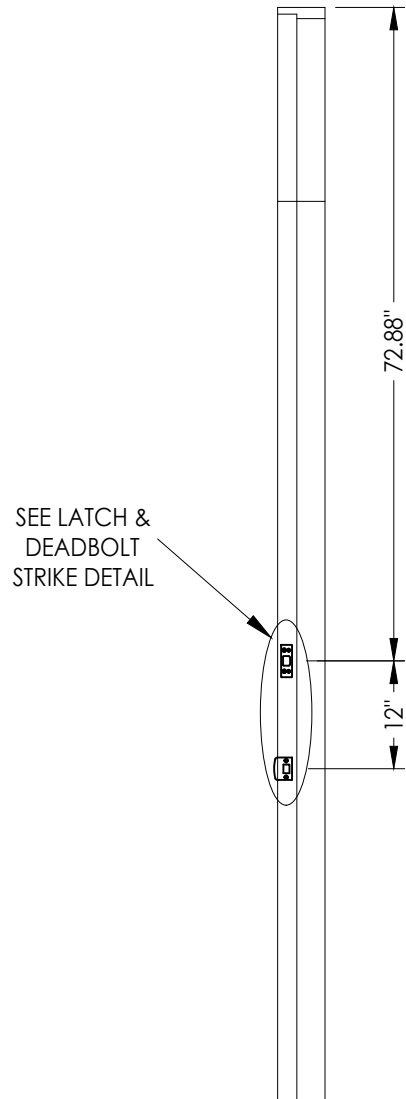
SHOOTBOLT REINFORCMENT
AT TOP & BOTTOM OF DOOR PANEL
(1/8" THICK STEEL)



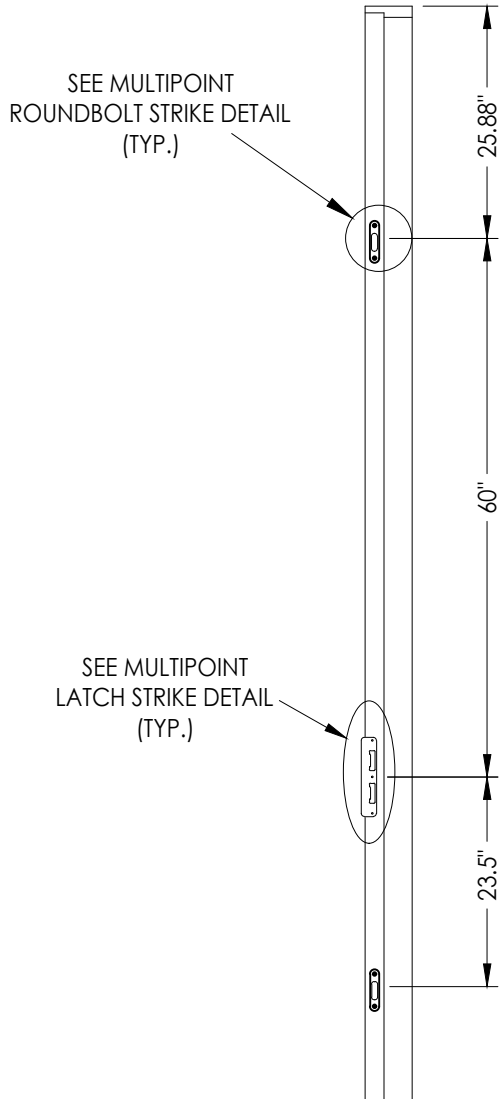
HINGE DETAIL
INSWING



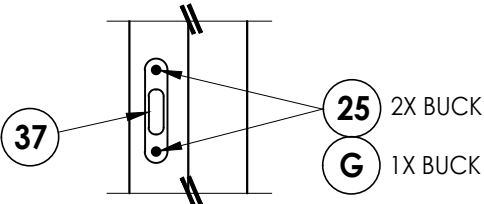
HINGE DETAIL
OUTSWING



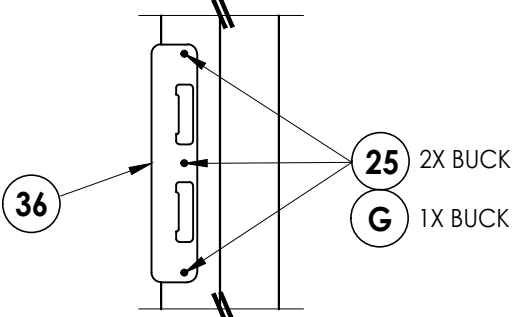
LATCH & DEADBOLT DETAILS



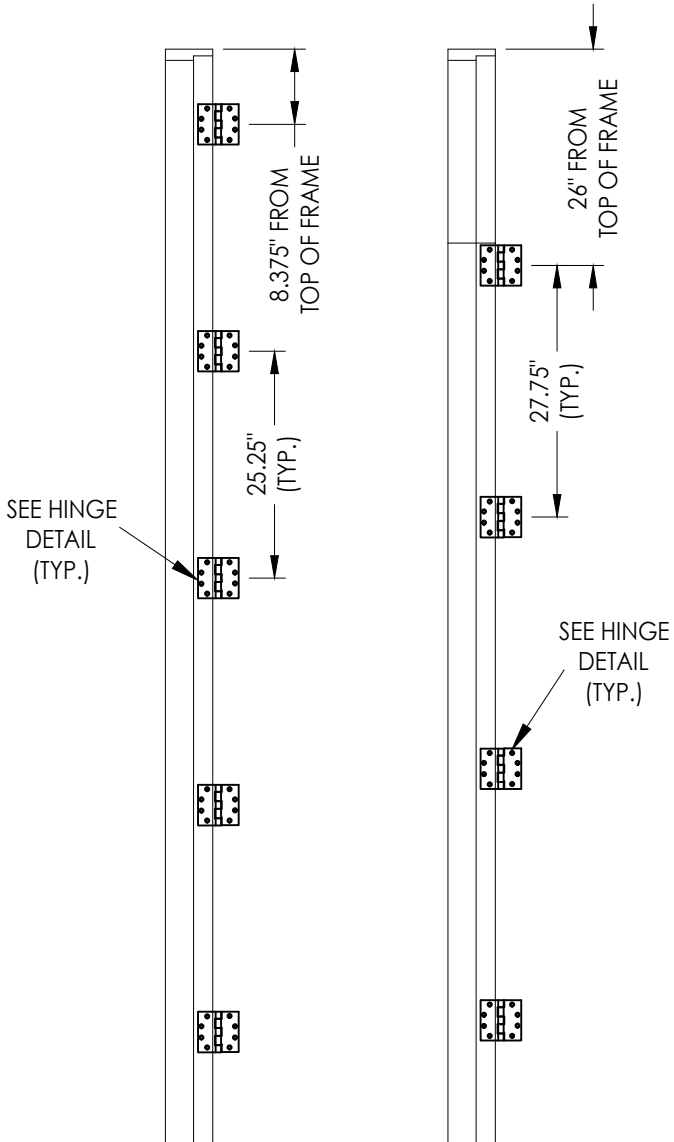
MULTIPOINT LOCK DETAILS



MULTIPOINT ROUND BOLT STRIKE DETAIL



MULTIPOINT STRIKE DETAIL



HINGE JAMB

HINGE JAMB
(Arch Top Door)

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: HARDWARE DETAILS	
		NO.	DATE
		BY	
REVISIONS			
DATE: 10/01/25			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-21891.14			
SHEET 10 OF 11			

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 3-1/4" 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
1	WOOD JAMB	WOOD
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	20 GA. SPLICE PLATE (SIMPSON® Strong-Tie TP37)	STEEL
10	#6 X 1/2" PPH WOOD SCREW	STEEL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
16	ADA THRESHOLD	ALUM
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
26	#8 X 1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	5" X 5" HINGE	STEEL
30	#12 X 2-1/2" PFH WOOD SCREW	STEEL
31	SHOOTBOLT STRIKE PLATE	STEEL
36	MULTIPOINT STRIKE PLATE	STEEL
37	MULTIPOINT ROUND BOLT STRIKE DETAIL	STEEL
40	DOOR PANEL	WOOD
41	DOOR PANEL	WOOD

WOOD FRAME COMPONENTS: MAHOGANY ($G = 0.55$)

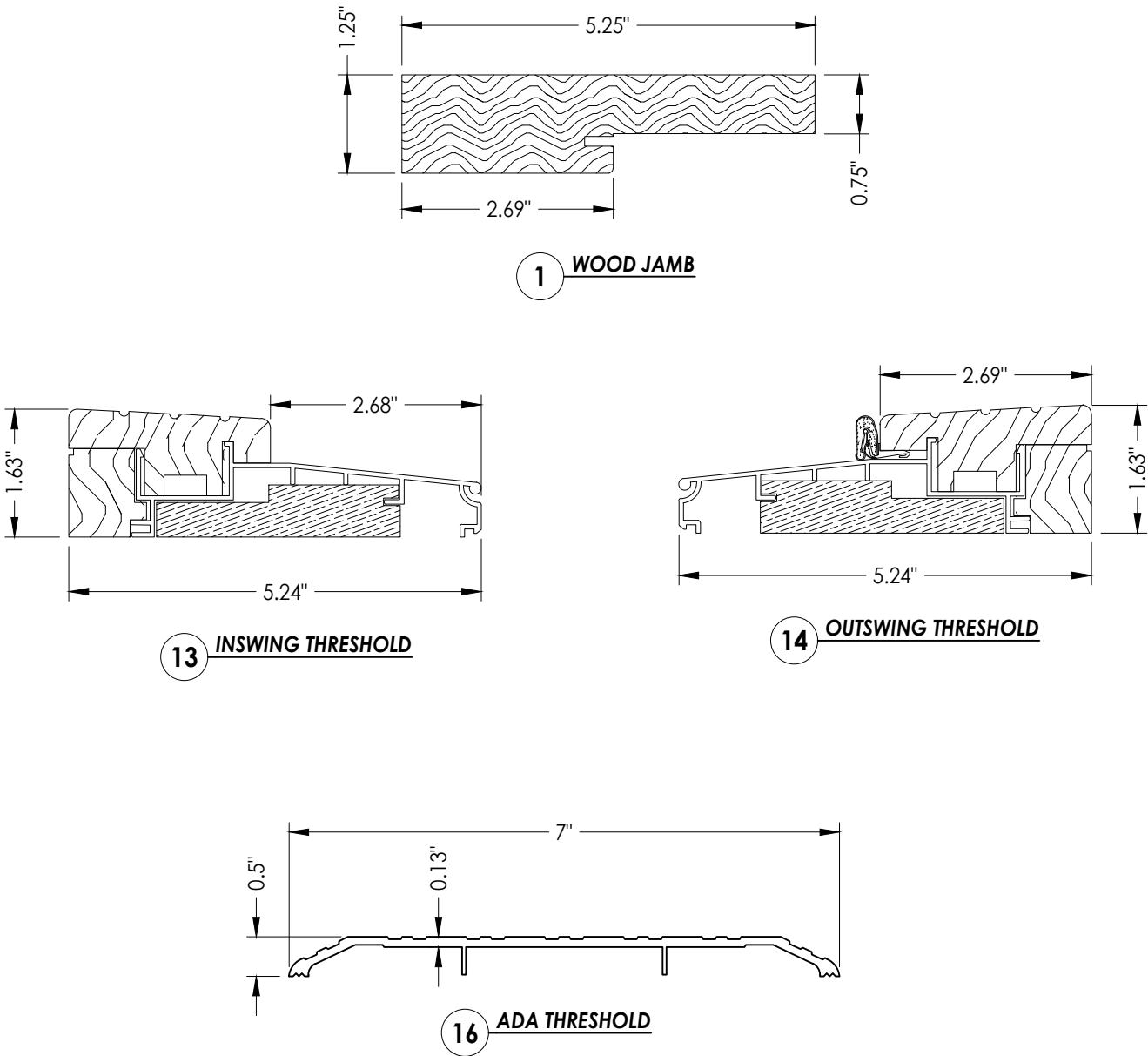
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. 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"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. 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: Lyndon F. Schmidt P.E. No. 43409					
--	--	--	---	--	--