



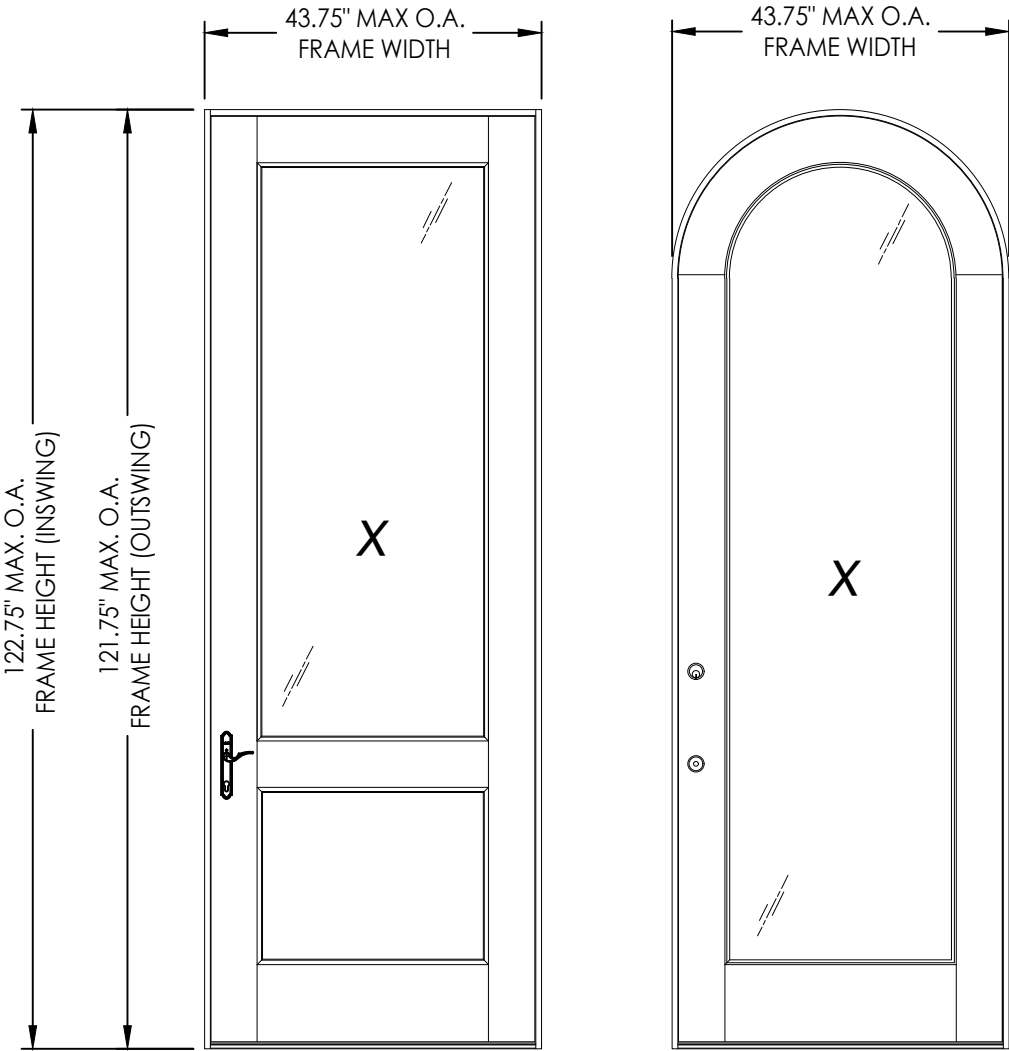
All Phase Custom Mill Shop
7471 Sawyer Circle
Port Charlotte, Florida 33981

"COASTAL IMPACT DOORS"
WOOD GLAZED OR OPAQUE
SINGLE DOOR
INSWING/OUTSWING
"IMPACT"

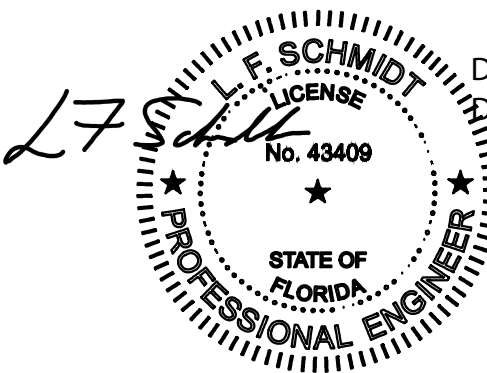
GENERAL NOTES:

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	Door Panel Details
5	Glazing & Panel Infil Details
6	Elevations
7	Horizontal & Vertical Cross Sections (2X Buck)
8	Horizontal & Vertical Cross Sections (1X Buck)
9	Vertical Cross Sections (Thresholds)
10	Buck & 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
X (Arch Top)	+60.0	-70.0	+60.0	-60.0	+60.0	-60.0
X (Rectangular)	+60.0	-70.0	+60.0	-85.0	+75.0	-85.0



Digitally signed by Lyndon F Schmidt
Date: 2023.09.27 10:30:26 -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

ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PRODUCT:

Part or Assembly:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

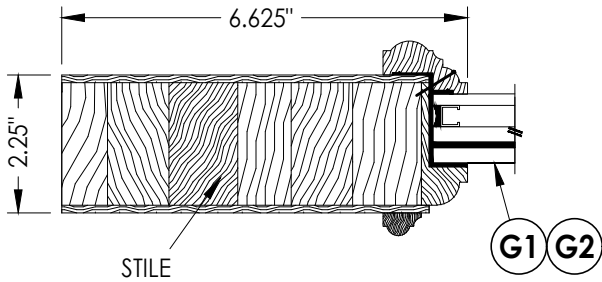
CHK. BY: LFS

DRAWING NO.: FL-22393.6

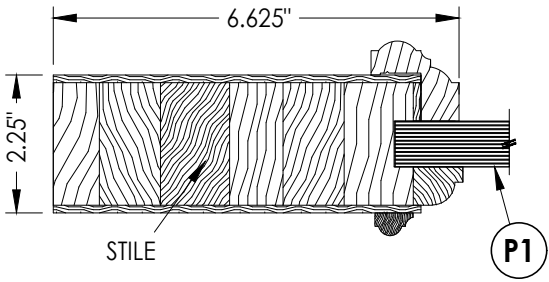
SHEET 1 OF 12

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

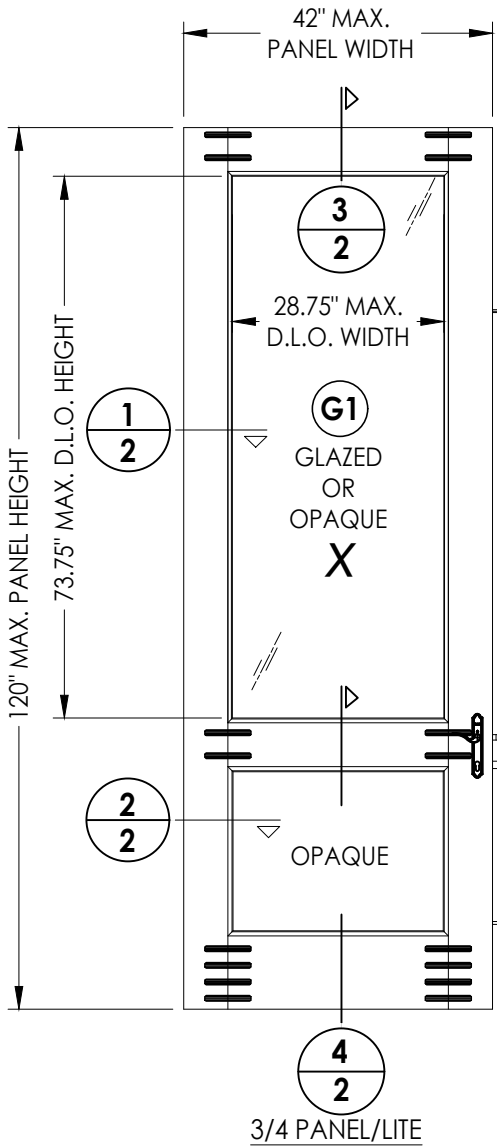
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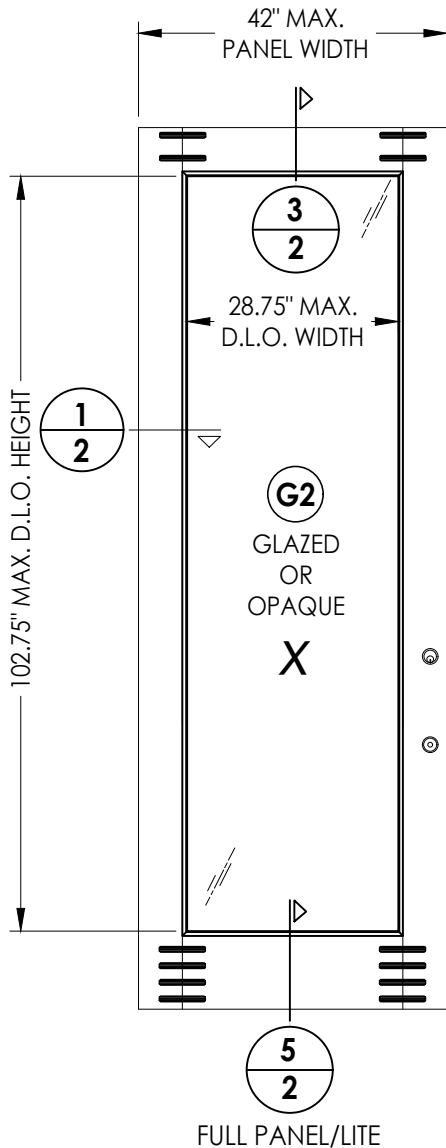
1
2 HORIZONTAL CROSS SECTION



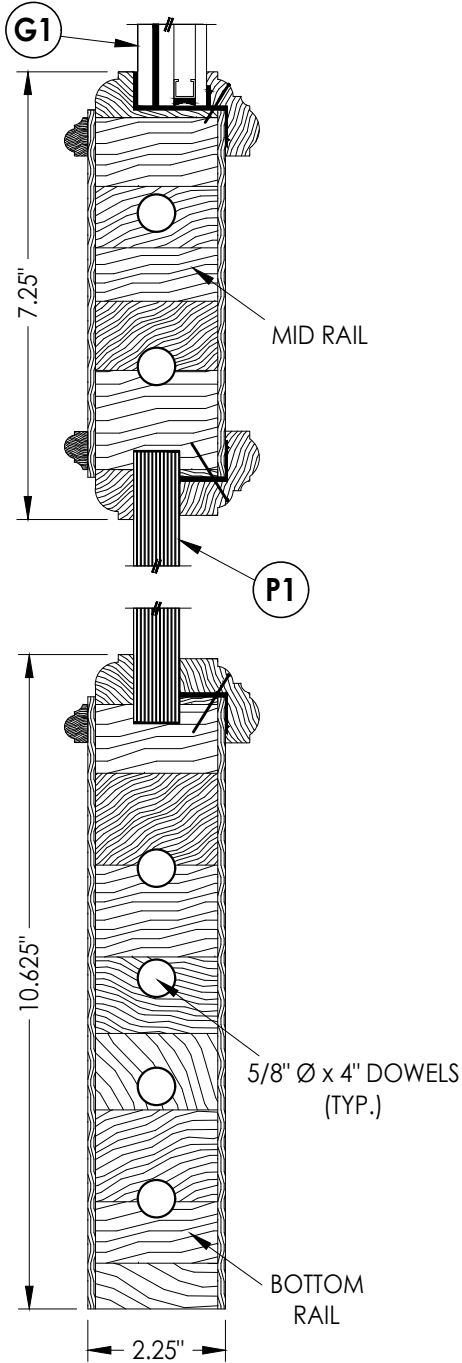
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2 HORIZONTAL CROSS SECTION



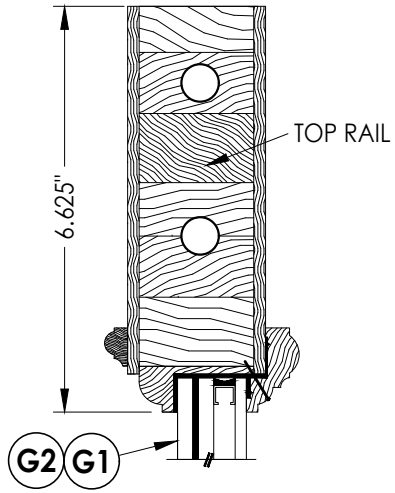
40 WOOD DOOR PANEL (3'-6")
Glazed or Opaque



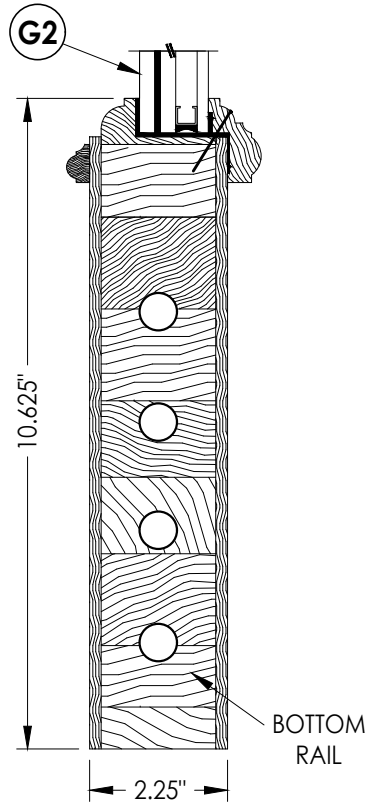
WOOD DOOR COMPONENTS:
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)
VENEER/EDGES: CYPRESS (G = 0.42)
NOTE: VENEER/EDGE MAY INCLUDE OAK, CHERRY, WALNUT OR
OTHER OPTIONAL HARDWOOD SPECIES w/ G >= 0.42.



4
2 VERTICAL CROSS SECTION



3
2 VERTICAL CROSS SECTION



5
2 VERTICAL CROSS SECTION

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

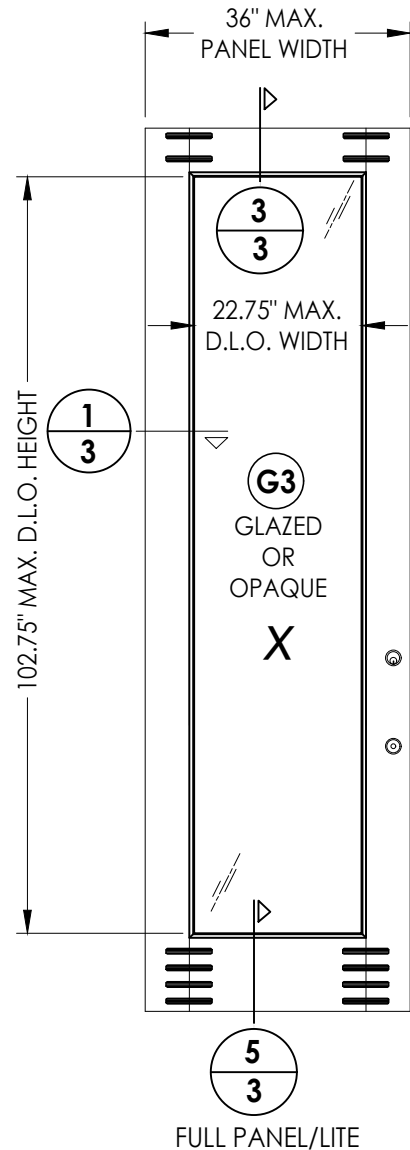
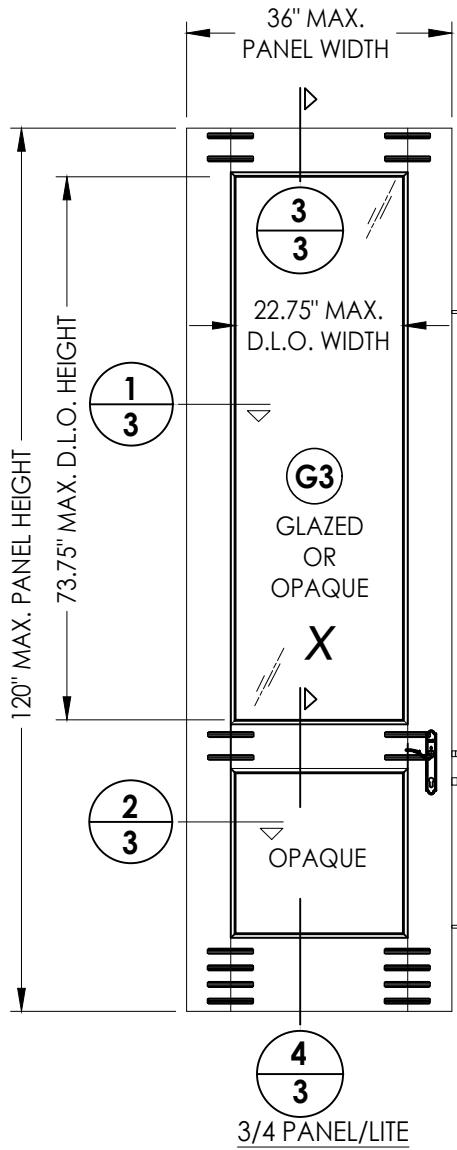
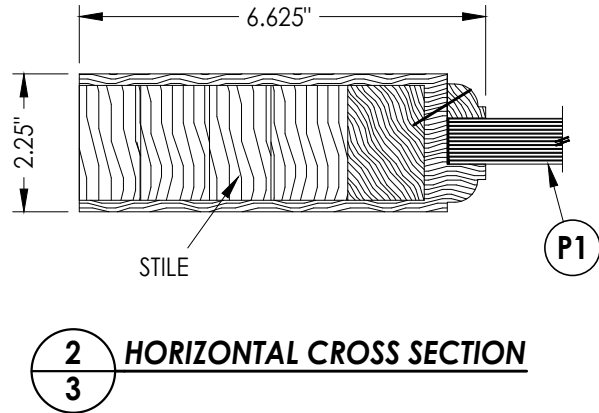
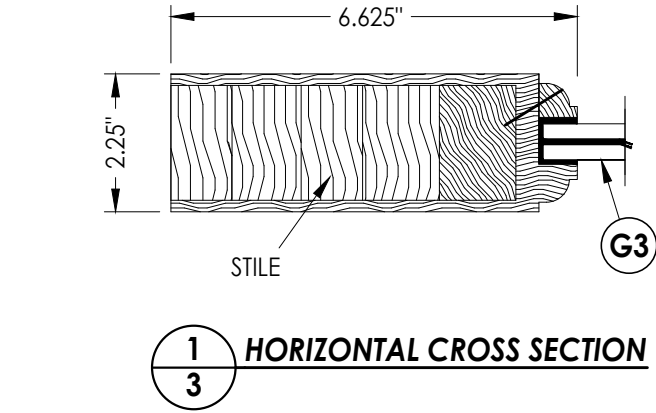
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
DOOR PANEL
DETAILS

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK
DATE:	6/5/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-22393.6	
SHEET	2	OF 12

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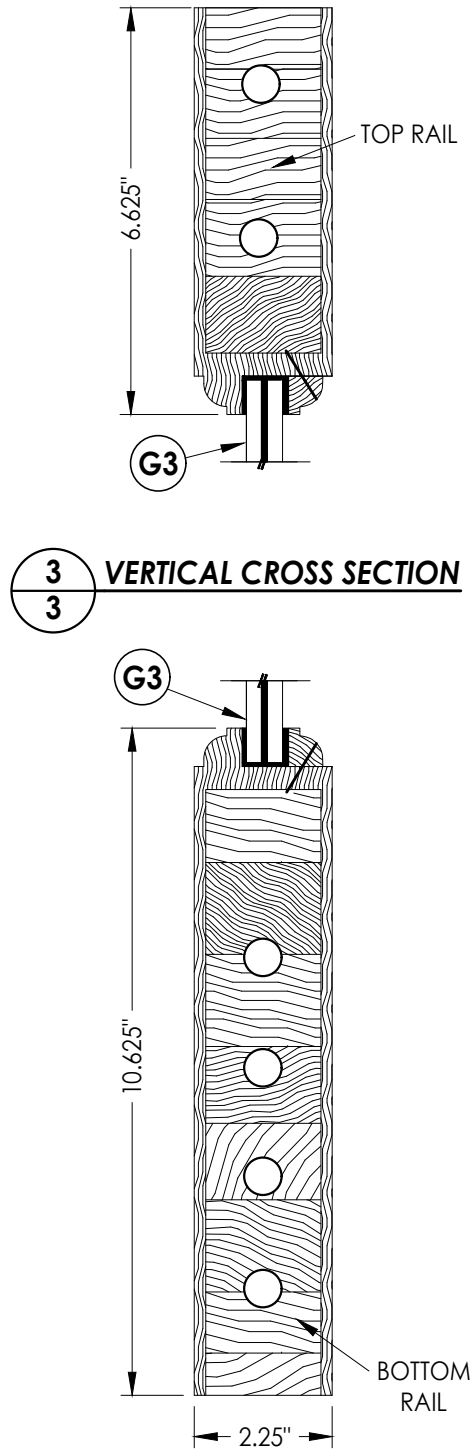
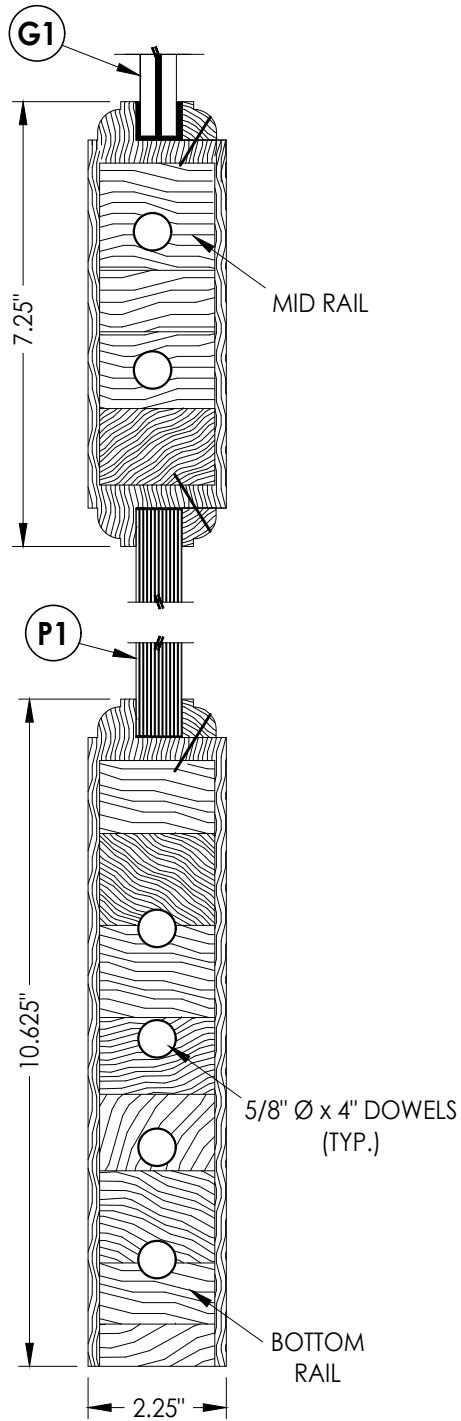
41 WOOD DOOR PANEL (3'-0")
Glazed or Opaque

WOOD DOOR COMPONENTS:

ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)

VENEER/EDGES: CYPRESS (G = 0.42)

NOTE: VENEER/EDGE MAY INCLUDE OAK, CHERRY, WALNUT OR
OTHER OPTIONAL HARDWOOD SPECIES w/ G >= 0.42.



**4
3**

VERTICAL CROSS SECTION

**5
3**

VERTICAL CROSS SECTION

NO.	DATE	REVISIONS	BY
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC	LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

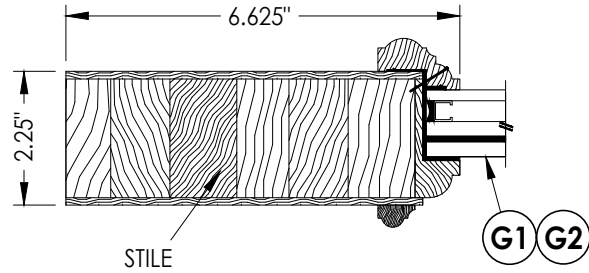
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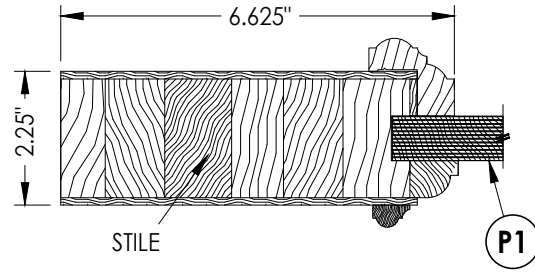
SHEET 3 OF 12

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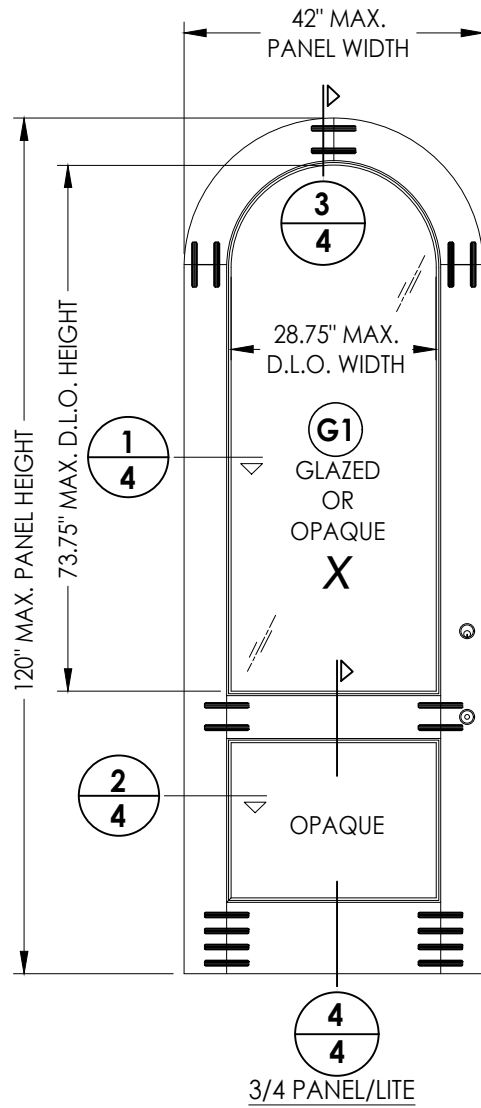
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



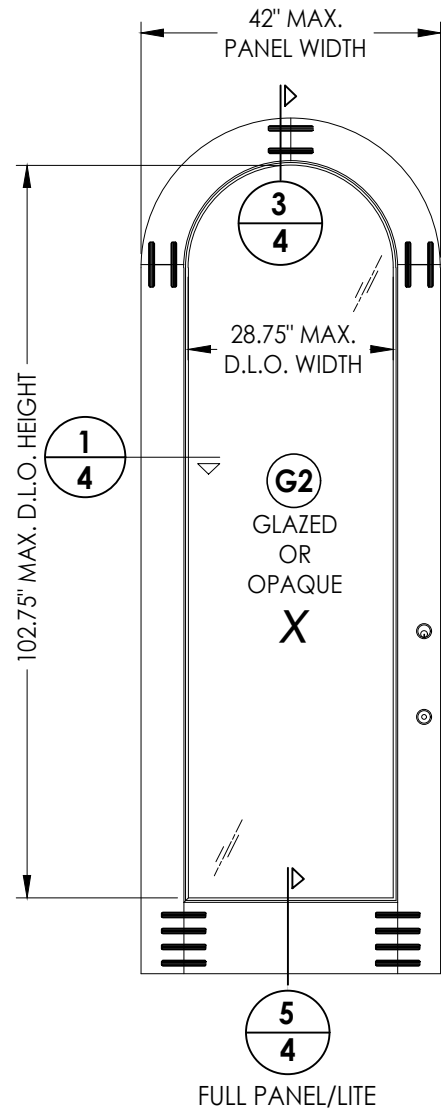
1 **HORIZONTAL CROSS SECTION**
4



2 **HORIZONTAL CROSS SECTION**



42 **WOOD DOOR PANEL (3'-6")**
Glazed or Opaque (Arch Top)



FULL PANEL/LITE

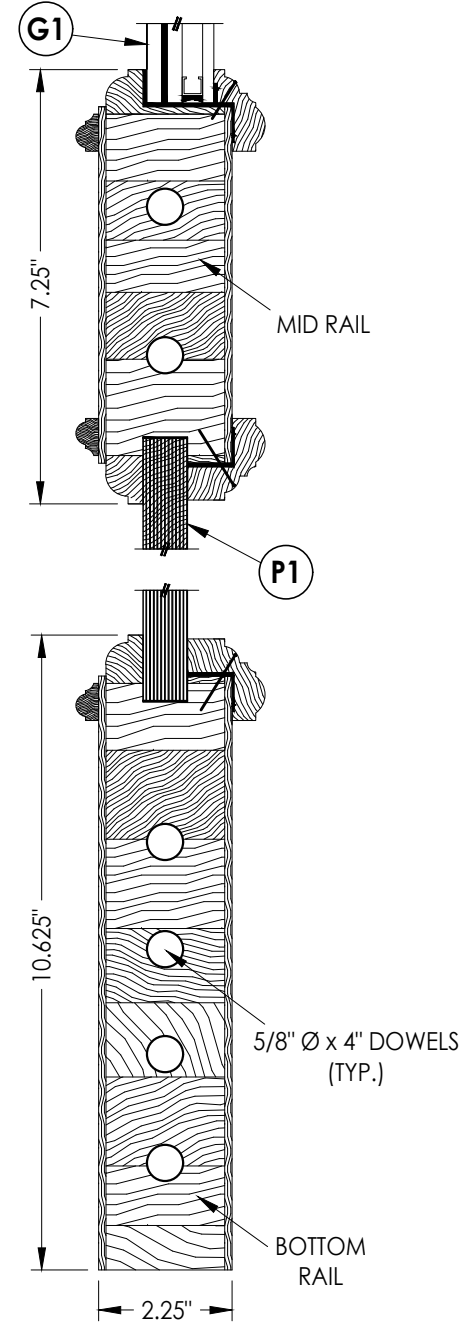
WOOD DOOR COMPONENTS:

ENGINEERED STAVE CORE: SIPO (UTILE) ($G = 0.53$)

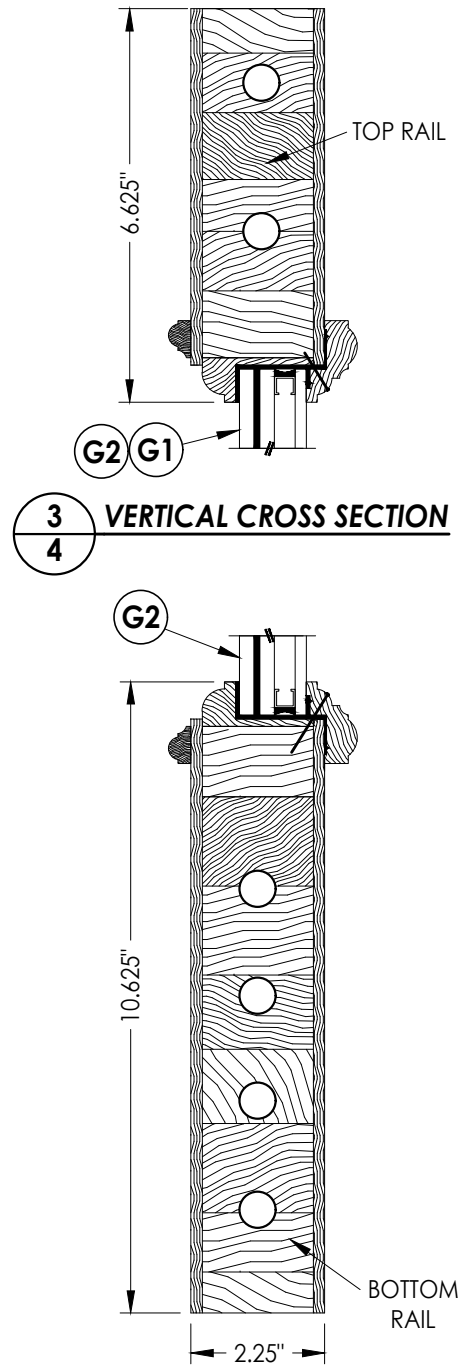
VENEER/EDGES: CYPRESS (G = 0.42)

NOTE: VENEER/EDGE MAY INCLUDE OAK, CHERRY, WALNUT OR

OTHER OPTIONAL HARDWOOD SPECIES w/ $G \geq 0.42$.



4 VERTICAL CROSS SECTION



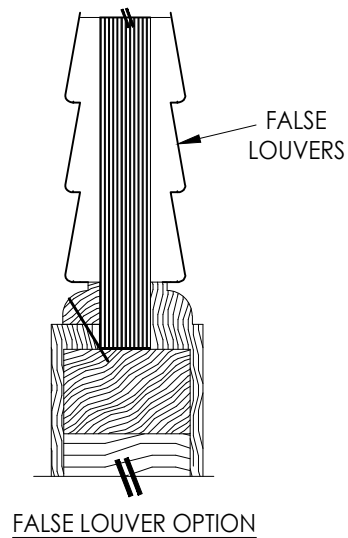
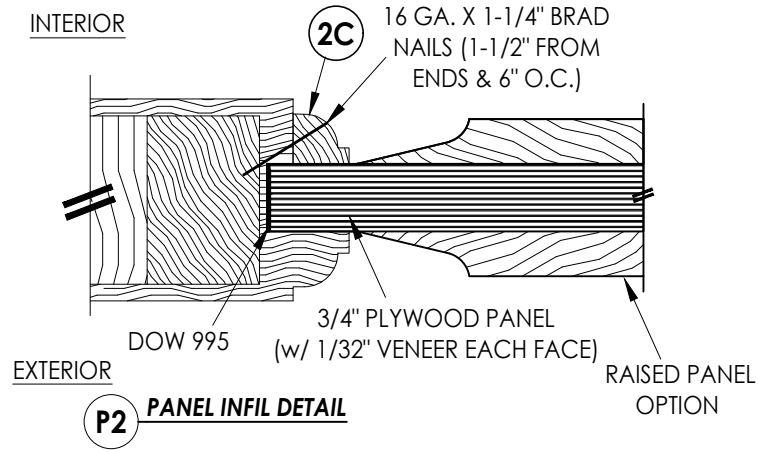
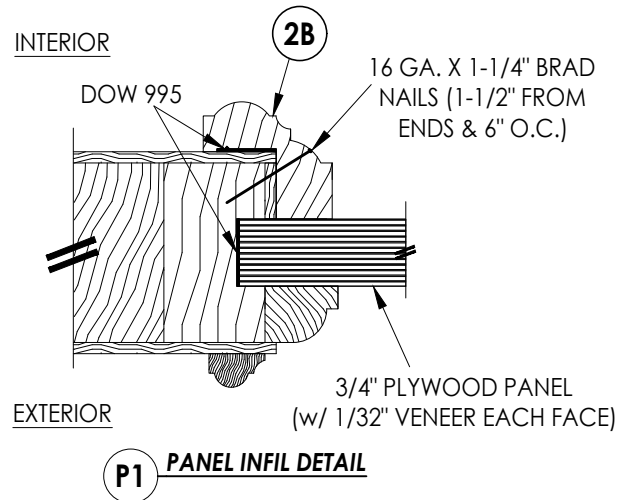
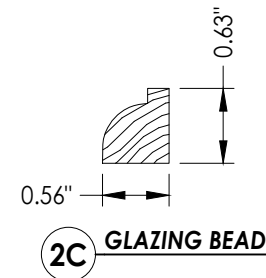
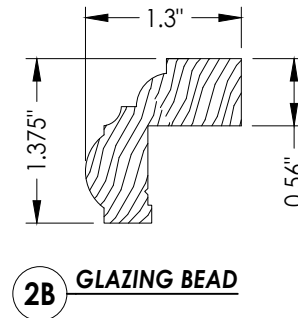
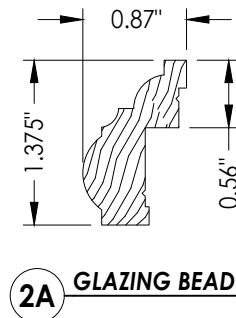
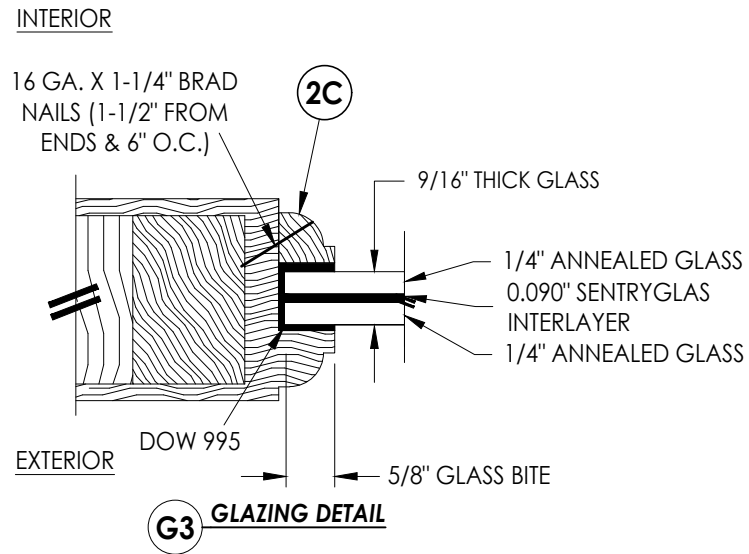
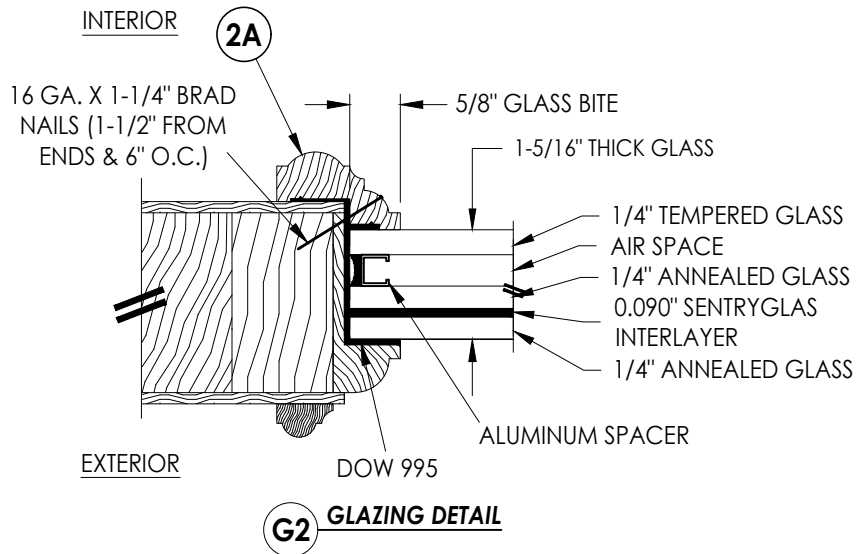
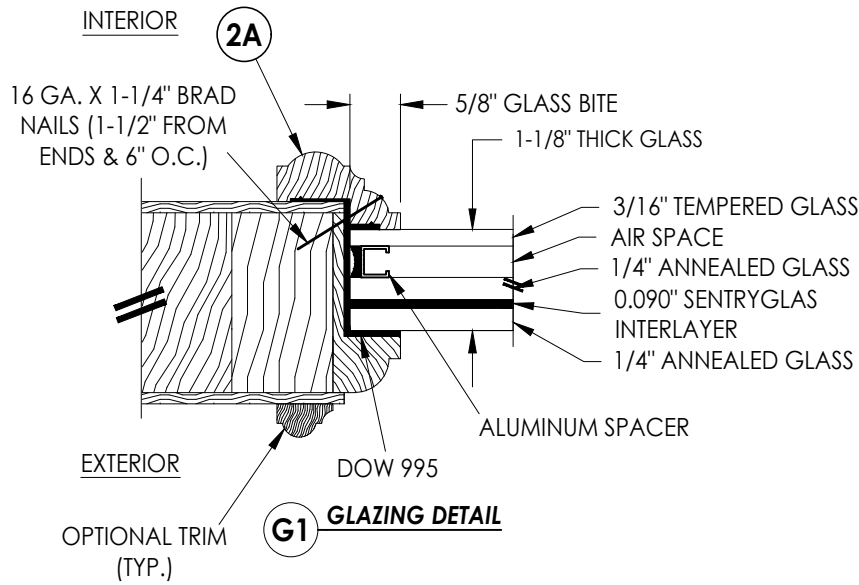
5 VERTICAL CROSS SECTION
4

[illegible]

Documents Prepared By:
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FBPE Registry No. 9813

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

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
GLAZING & PANEL INFIL
DETAILS

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/5/17

SCALE: N.T.S.

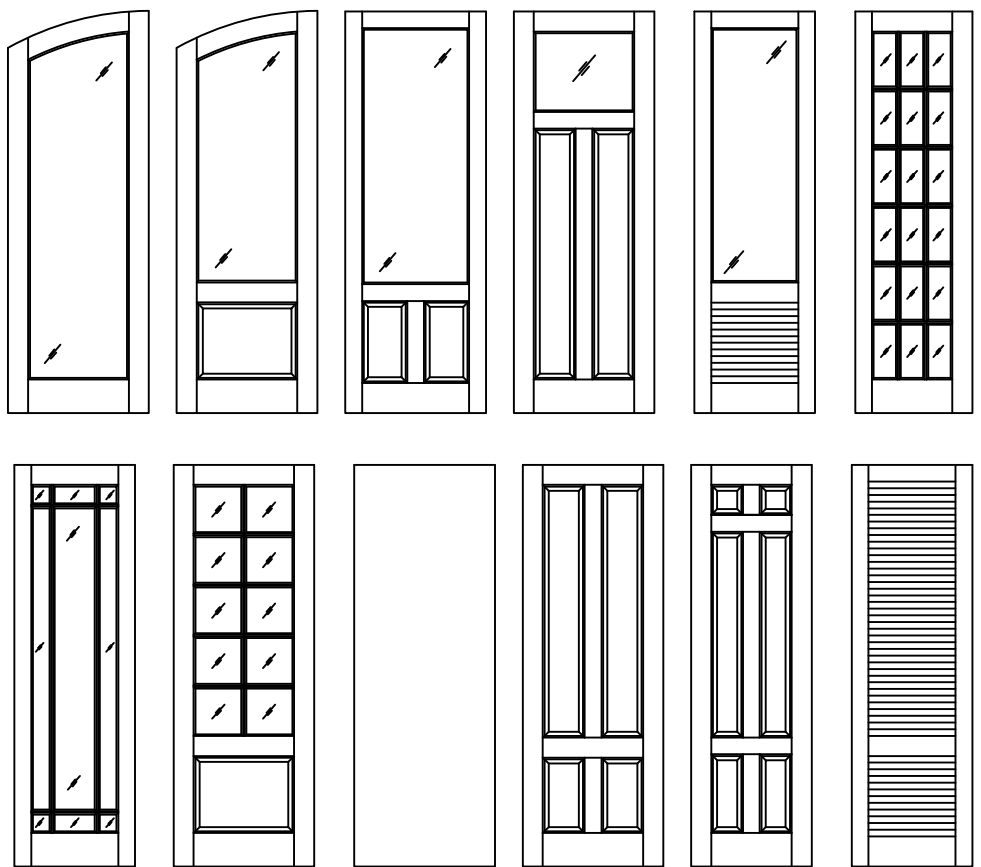
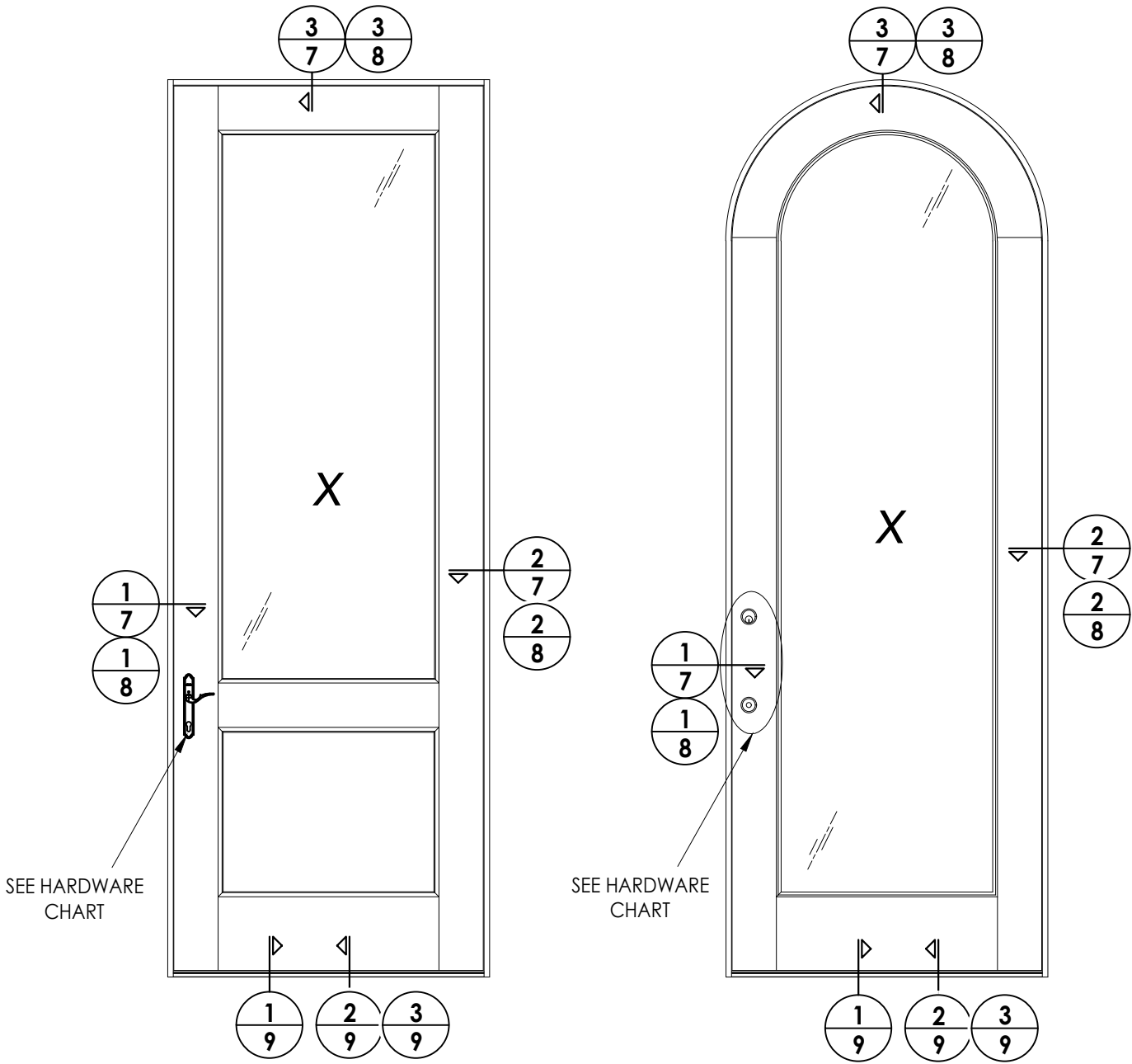
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22393.6

SHEET 5 OF 12

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ALL PHASE CUSTOM MILL SHOP 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

ALL PHASE CUSTOM MILL SHOP
Impact Wood Doors

PART OR ASSEMBLY:
ELEVATIONS

REVISIONS

NO.	DATE	BY
3	9/27/23	UPDATE TO 8TH ED. (2023)
2	9/02/20	UPDATE TO 7TH ED. (2020)
1	10/12/17	UPDATE TO 6TH ED. (2017)

DATE: 6/5/17

SCALE: N.T.S.

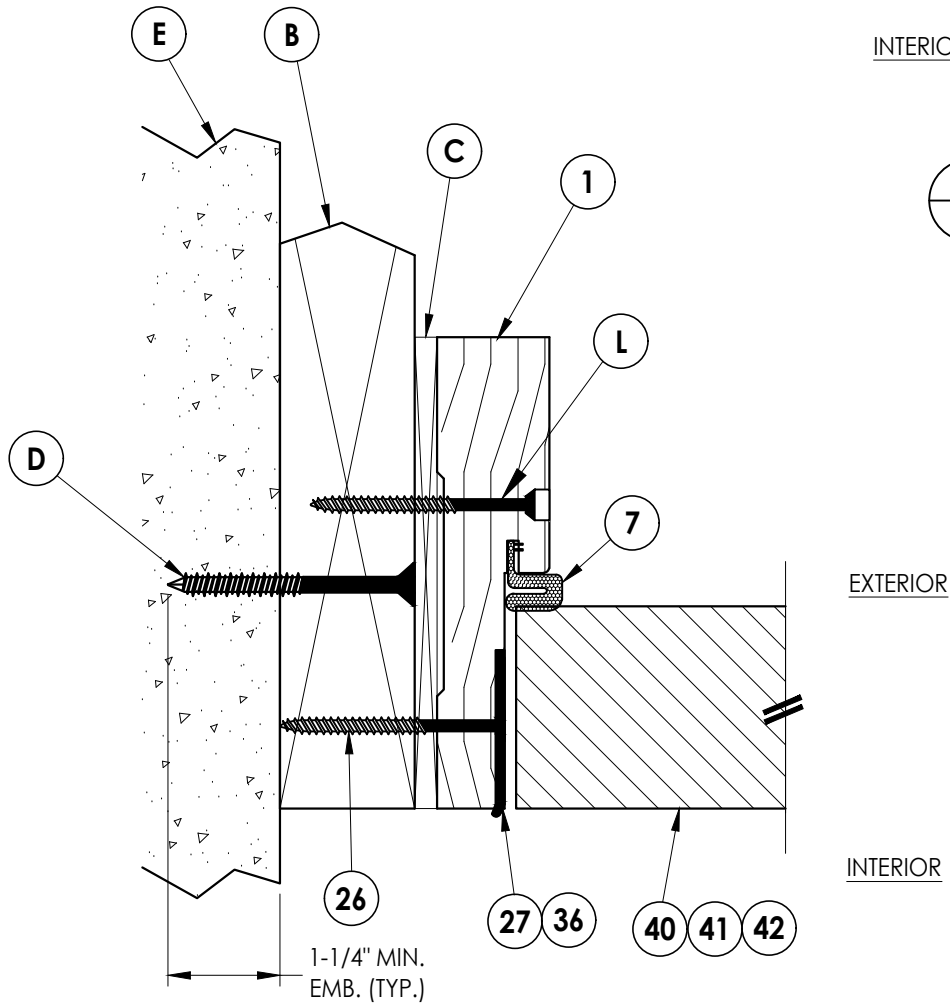
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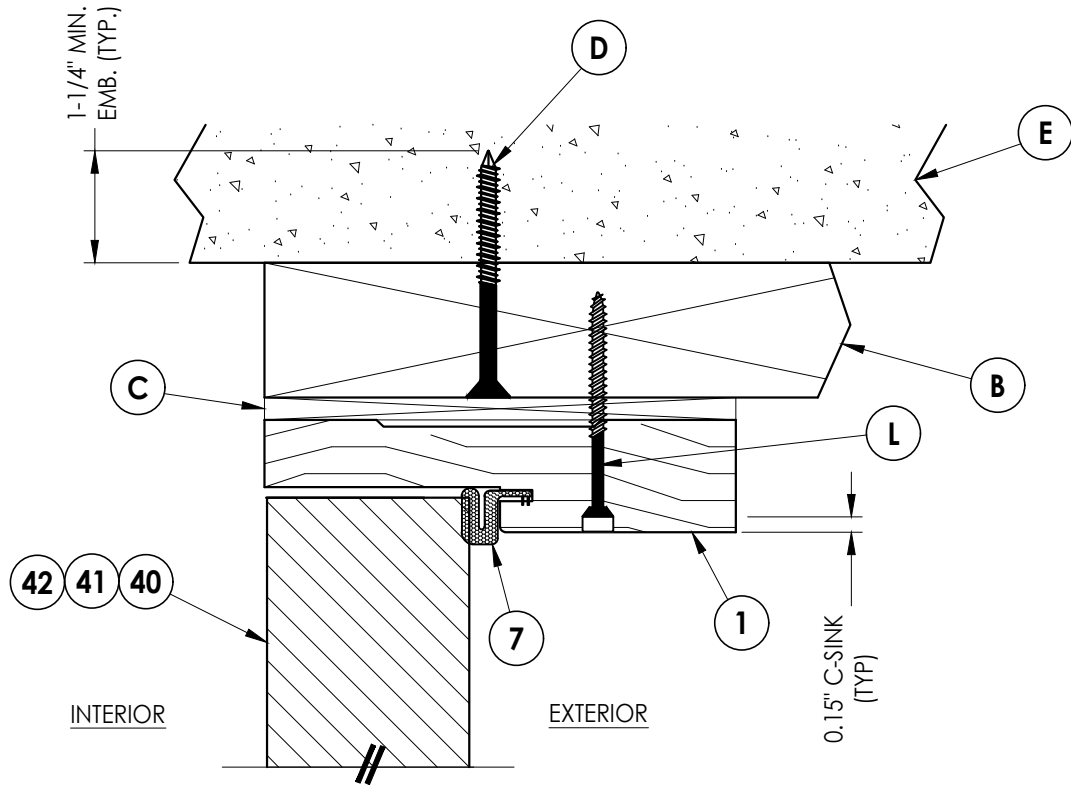
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SHEET 6 OF 12

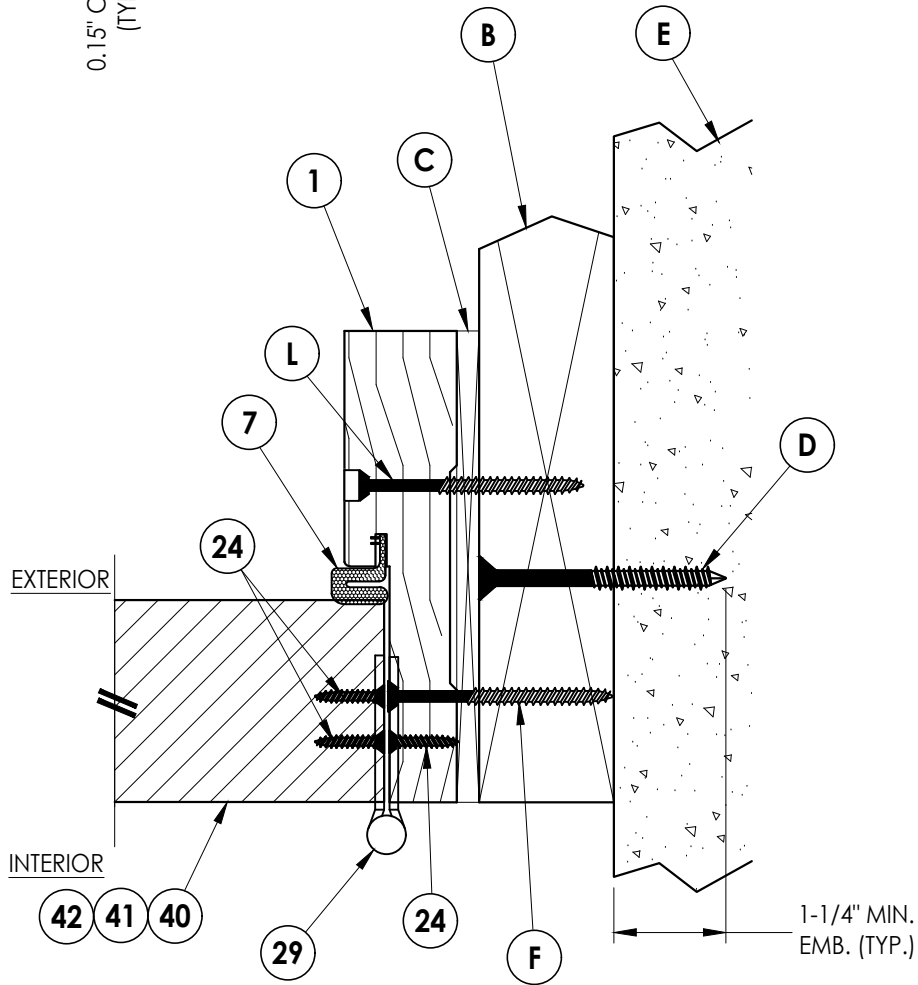
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 98113



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



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



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

PRODUCT:	
ALL PHASE CUSTOM MILL SHOP	
"Impact" Wood Doors	
PART OR ASSEMBLY:	
HORIZONTAL & VERTICAL	
CROSS SECTIONS (2X BUCK)	

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

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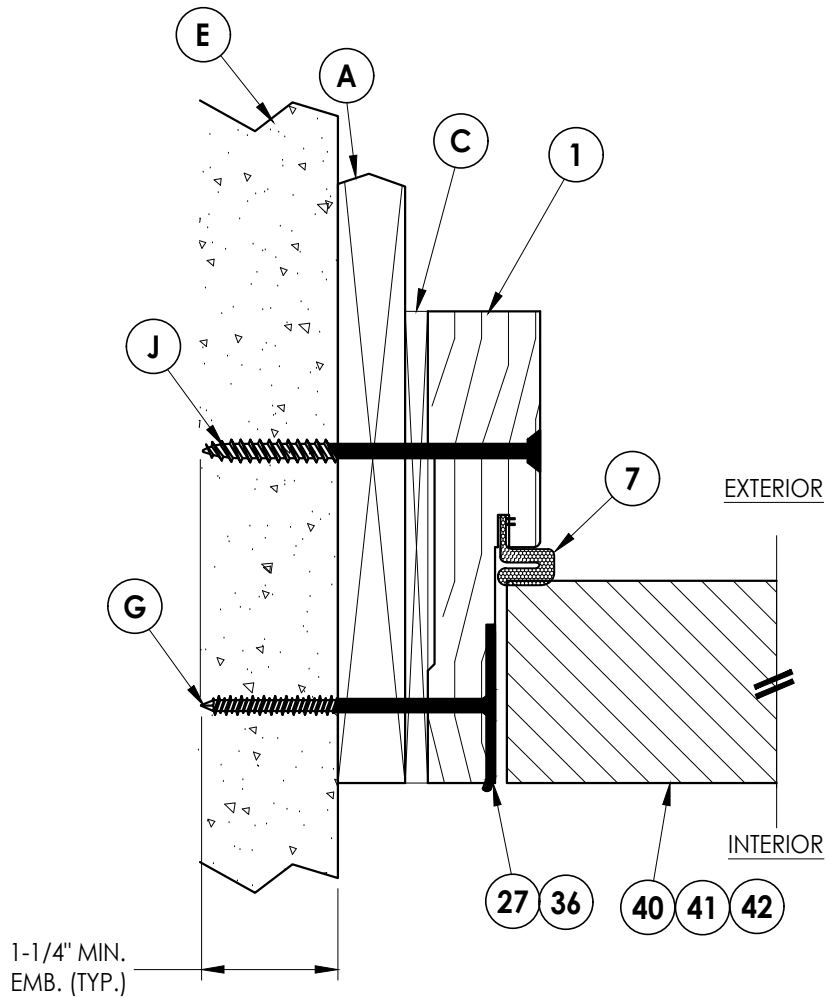
FL-22393.6

SHEET 7 OF 12

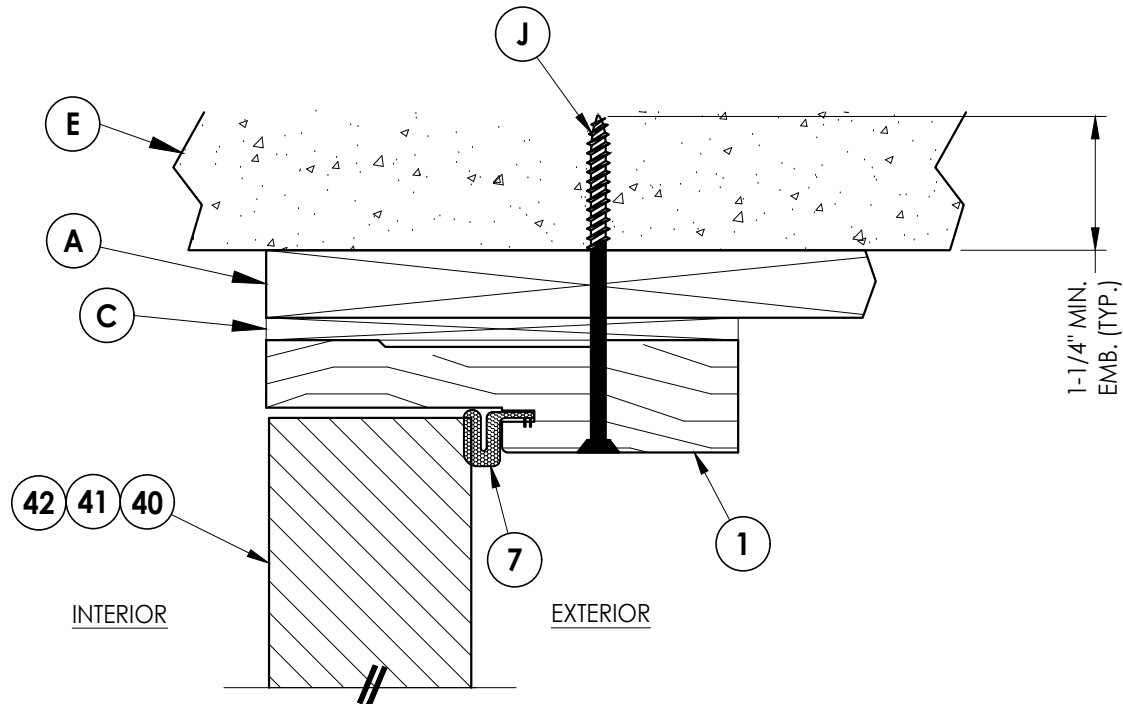
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

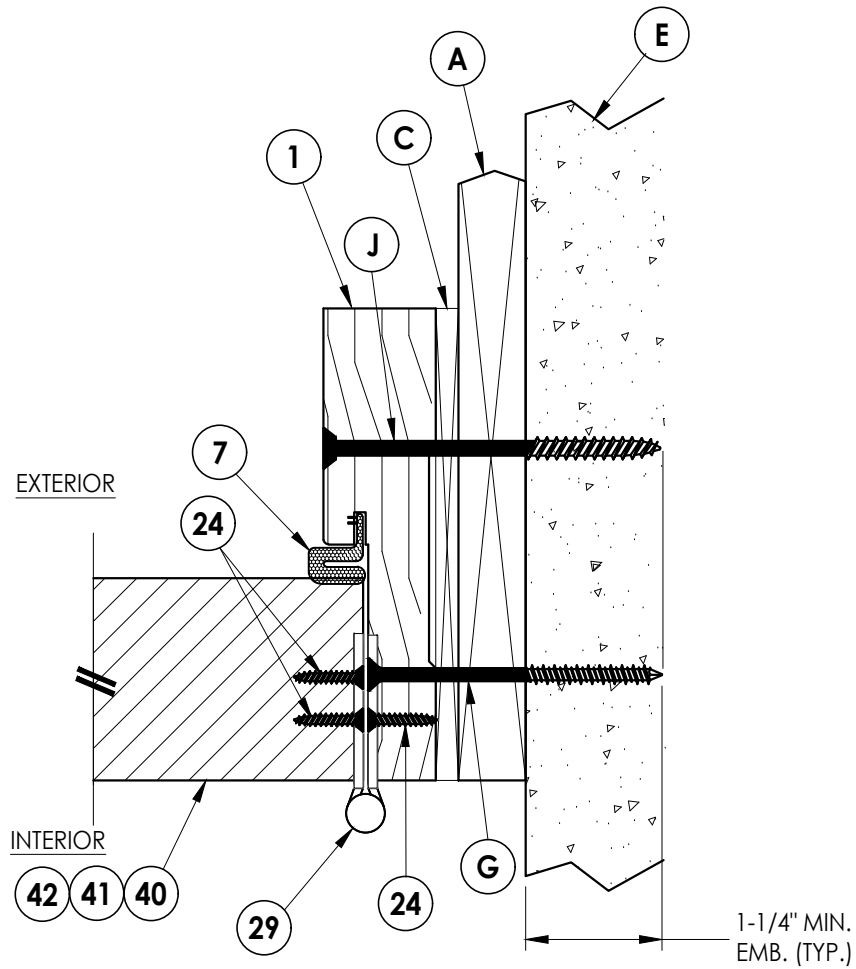
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1
8 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Inswing shown (Outswing similar)



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



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

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-22393.6

SHEET 8 OF 12

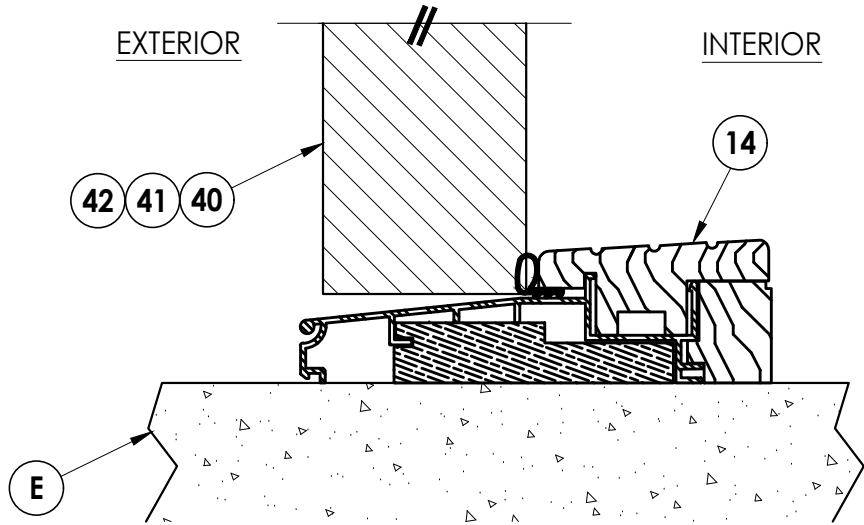
PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

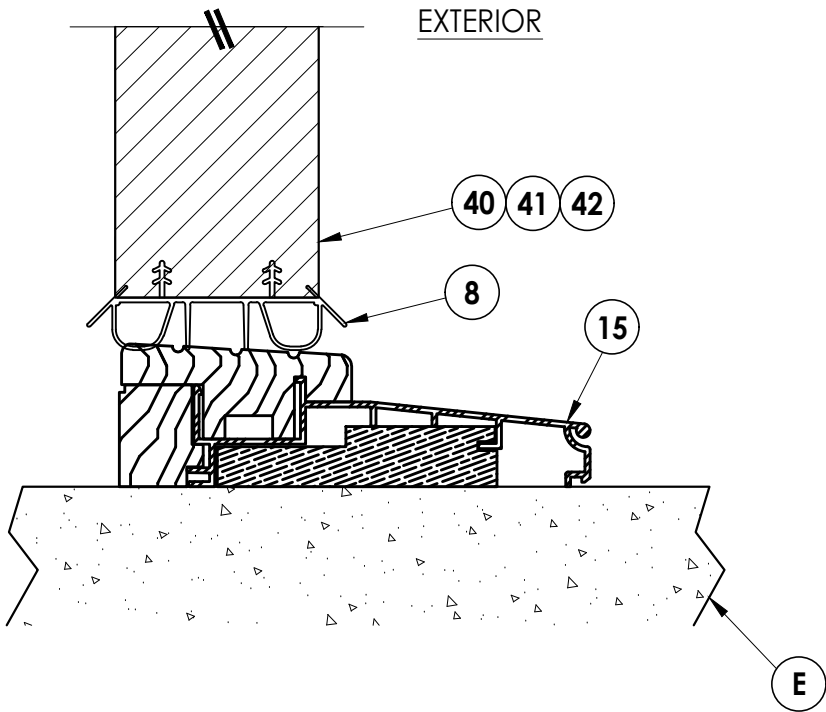
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

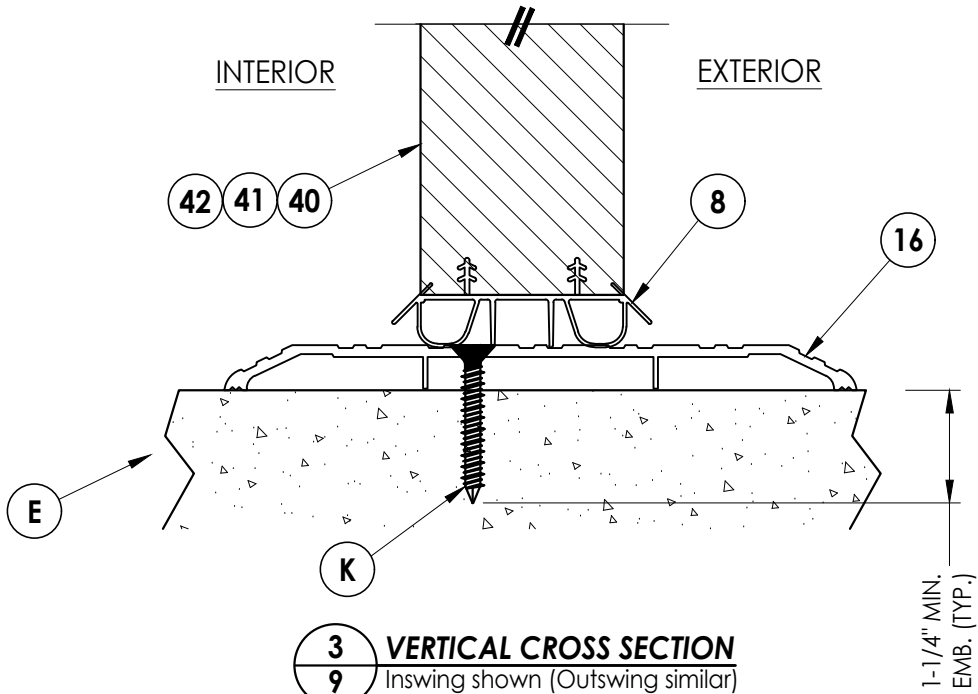
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1 VERTICAL CROSS SECTION
9 Outswing



2 VERTICAL CROSS SECTION
9 Inswing



3 VERTICAL CROSS SECTION
9 Inswing shown (Outswing similar)

PRODUCT:	ALL PHASE CUSTOM MILL SHOP "Impact" Wood Doors
	PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS			
		DATE	BY	JK	LFS
3	9/27/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	9/02/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
1	10/12/17	UPDATE TO 6TH ED. (2017)	FBC	JK	

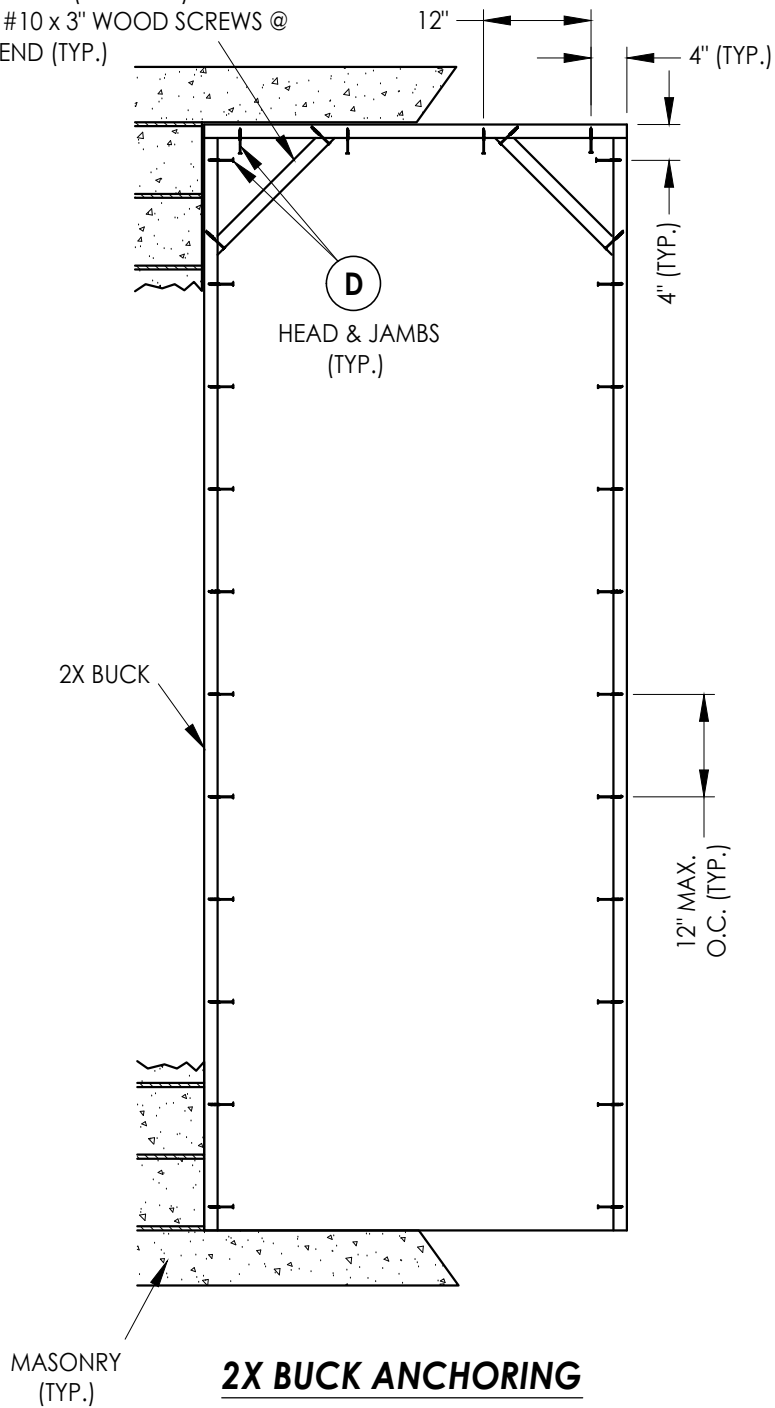
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22393.6
SHEET	9 of 12

Documents Prepared By:
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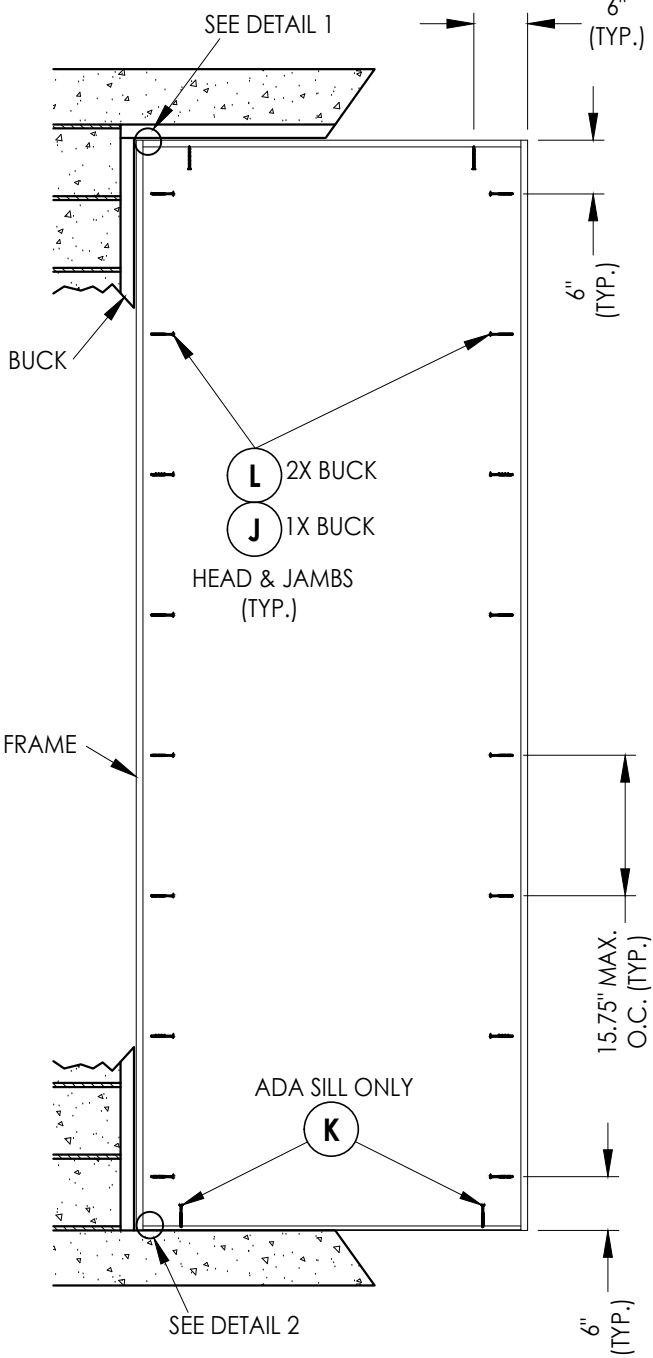
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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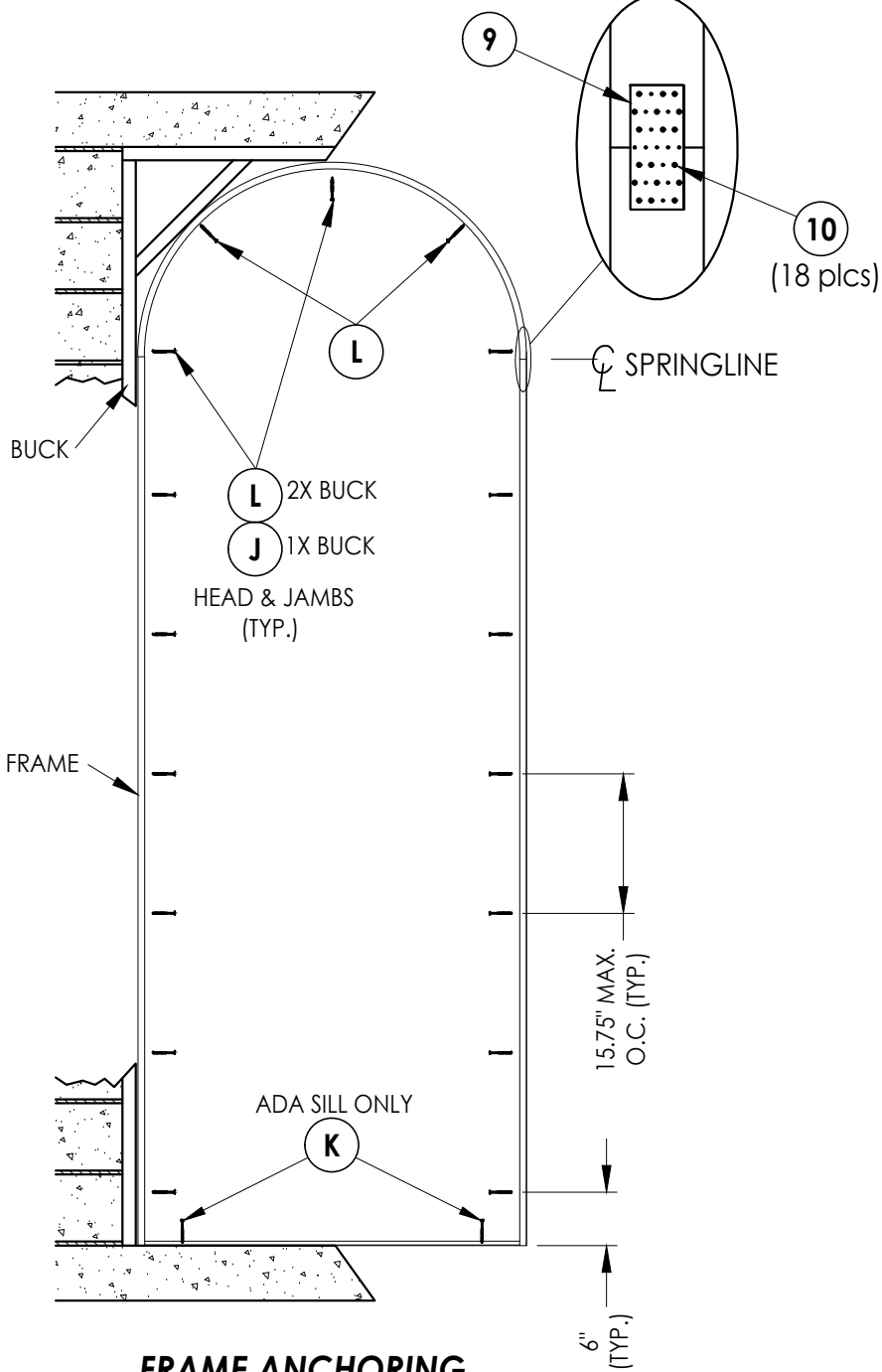
2X FRAMING (No. 2 SYP) ATTACHED
w/ (2) #10 x 3" WOOD SCREWS @
EACH END (TYP.)



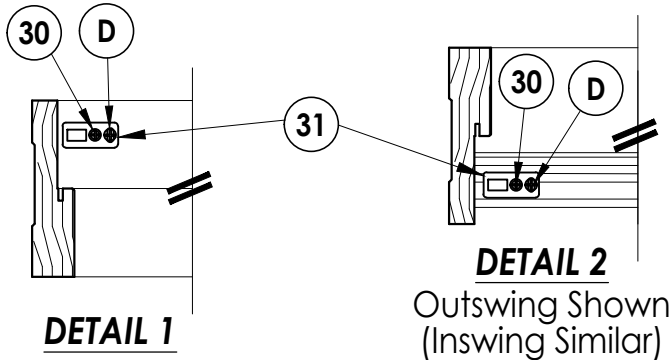
2X BUCK ANCHORING



FRAME ANCHORING



FRAME ANCHORING
Arch Top



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

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

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

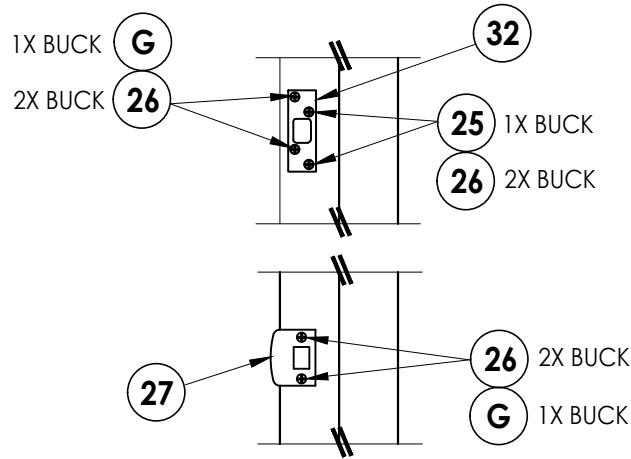
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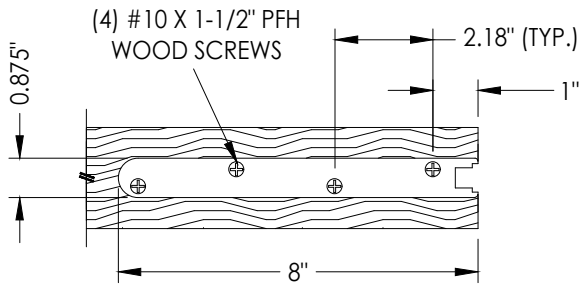
SHEET 10 OF 12

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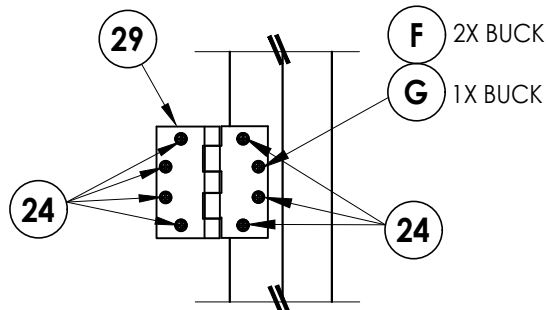
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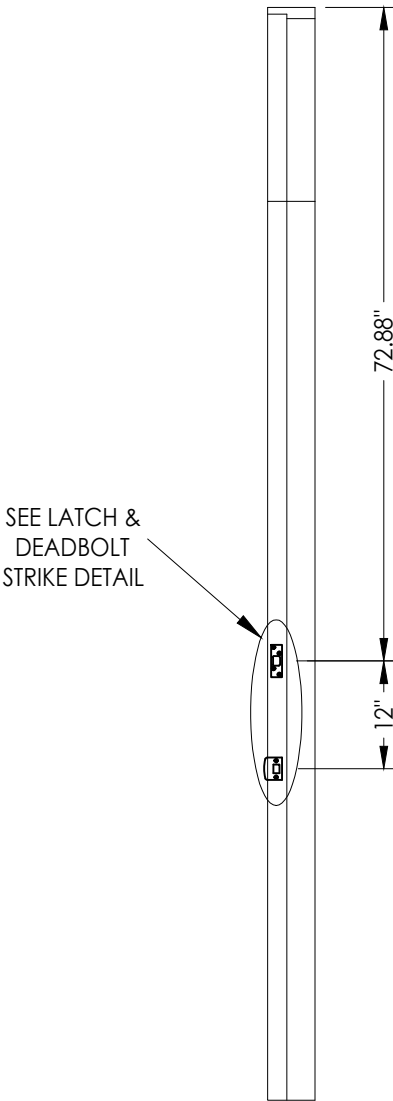
LATCH & DEADBOLT STRIKE DETAIL



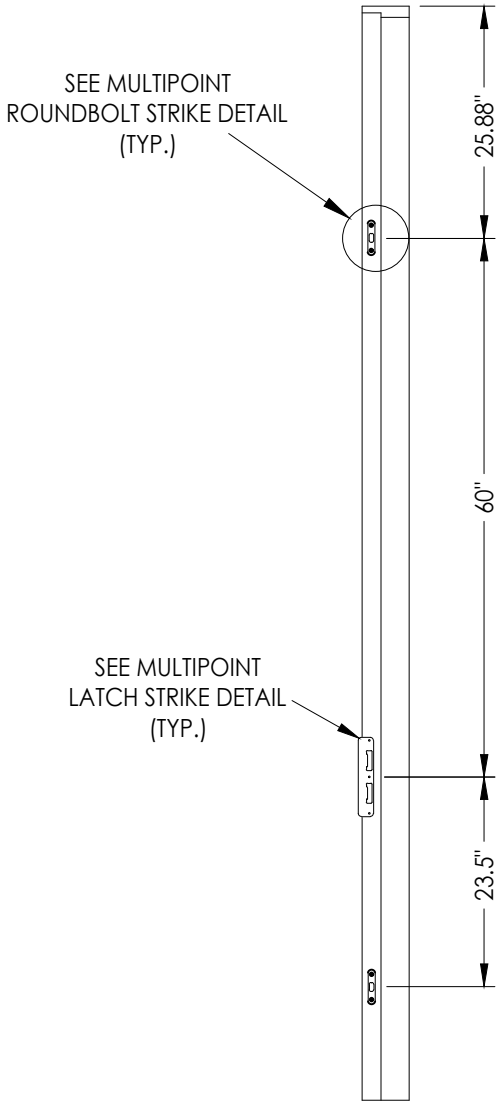
SHOOTBOLT REINFORCEMENT
AT TOP & BOTTOM OF DOOR PANEL
(1/8" THICK STEEL)



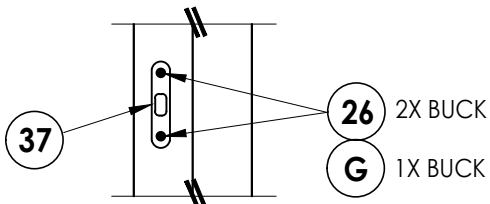
HINGE DETAIL



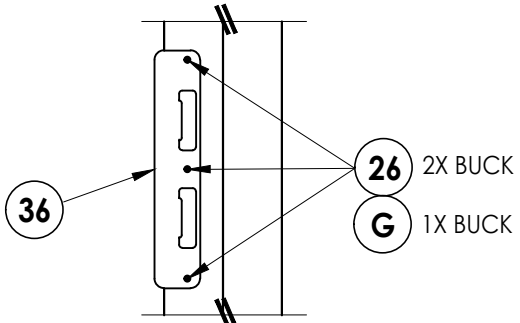
LATCH & DEADBOLT DETAILS



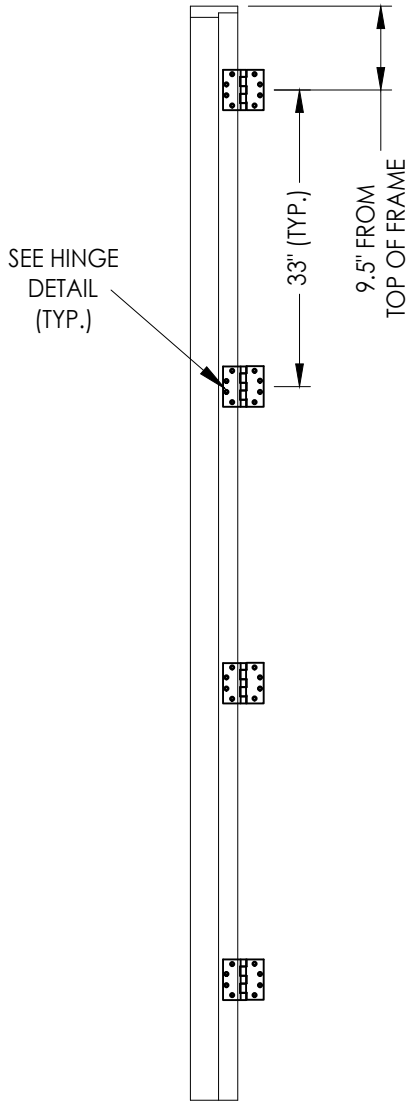
MULTIPOINT LOCK DETAILS



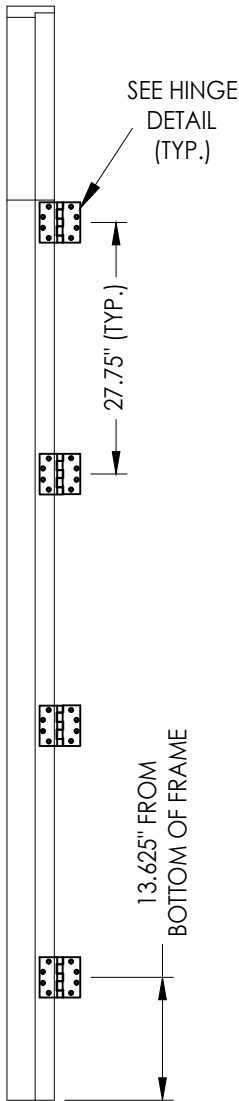
MULTIPOINT ROUNDBOLT STRIKE DETAIL



MULTIPOINT STRIKE DETAIL



HINGE JAMB



HINGE JAMB
(Arch Top Door)

Documents Prepared By:
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PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

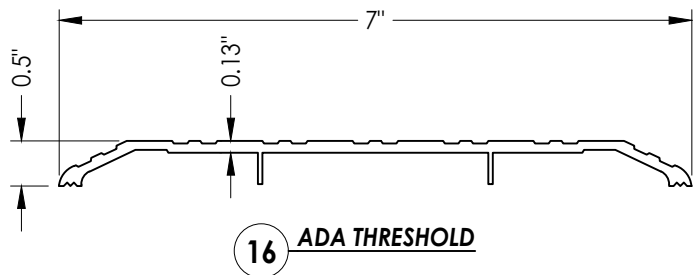
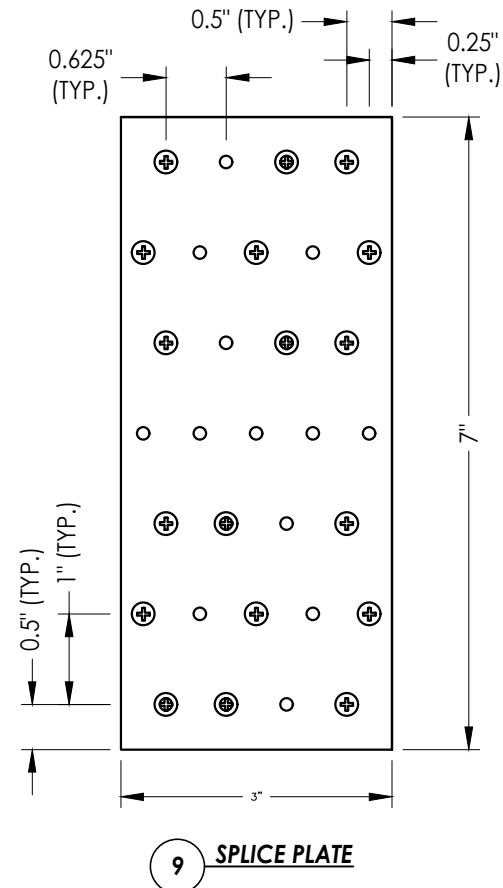
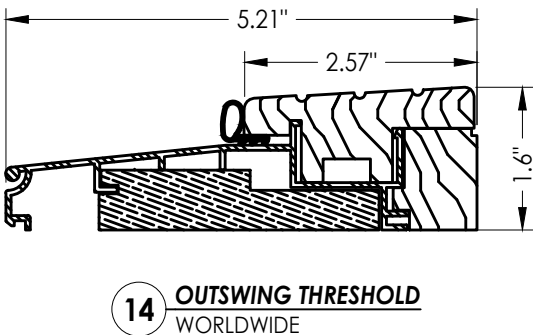
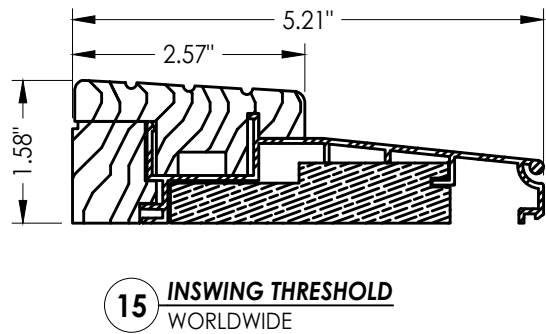
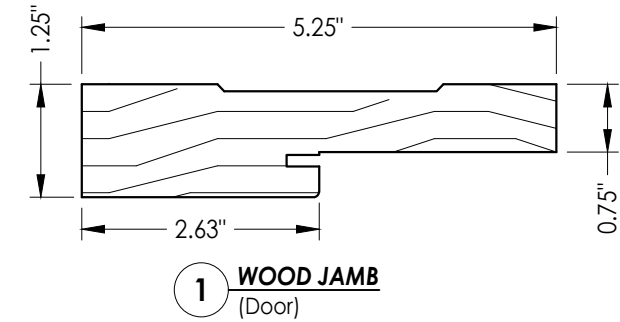
PART OR ASSEMBLY:
HARDWARE DETAILS

NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/5/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-22393.6
SHEET 11 OF 12

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 ITW 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	JAMB (DOOR)	WOOD
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	20 GA. SPLICE PLATE (USP NP37)	STEEL
10	#6 X 1/2" PPH WOOD SCREW	STEEL
14	OUTSWING THRESHOLD	ALUM/COMP
15	INSWING THRESHOLD	ALUM/COMP
16	ADA THRESHOLD	ALUM
22	#10 X 2" PFH WOOD SCREW	STEEL
24	#12 x 1" PFH WOOD SCREW	STEEL
25	#8 x 1-3/4" PFH WOOD SCREW	STEEL
26	#8 x 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
30	#8 x 3/4" FH SMS	STEEL
31	SHOOTBOLT STRIKE PLATE	STEEL
32	DEADBOLT SECURITY STRIKE PLATE	STEEL
36	MULTIPOINT STRIKE PLATE	STEEL
37	MULTIPOINT ROUND BOLT STRIKE DETAIL	STEEL
40	DOOR PANEL	WOOD
41	DOOR PANEL	WOOD
42	DOOR PANEL	WOOD

WOOD FRAME COMPONENTS: SIPO (UTILE) ($G = 0.53$)



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"
ITW TAPCON®	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.

3	9/27/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	9/02/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	10/12/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
NO.	DATE				BY
					REVISIONS

DATE: 6/5/17

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-22393.6

SHEET 12 OF 12

Documents Prepared By:
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PRODUCT: ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:

REVISIONS

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