

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

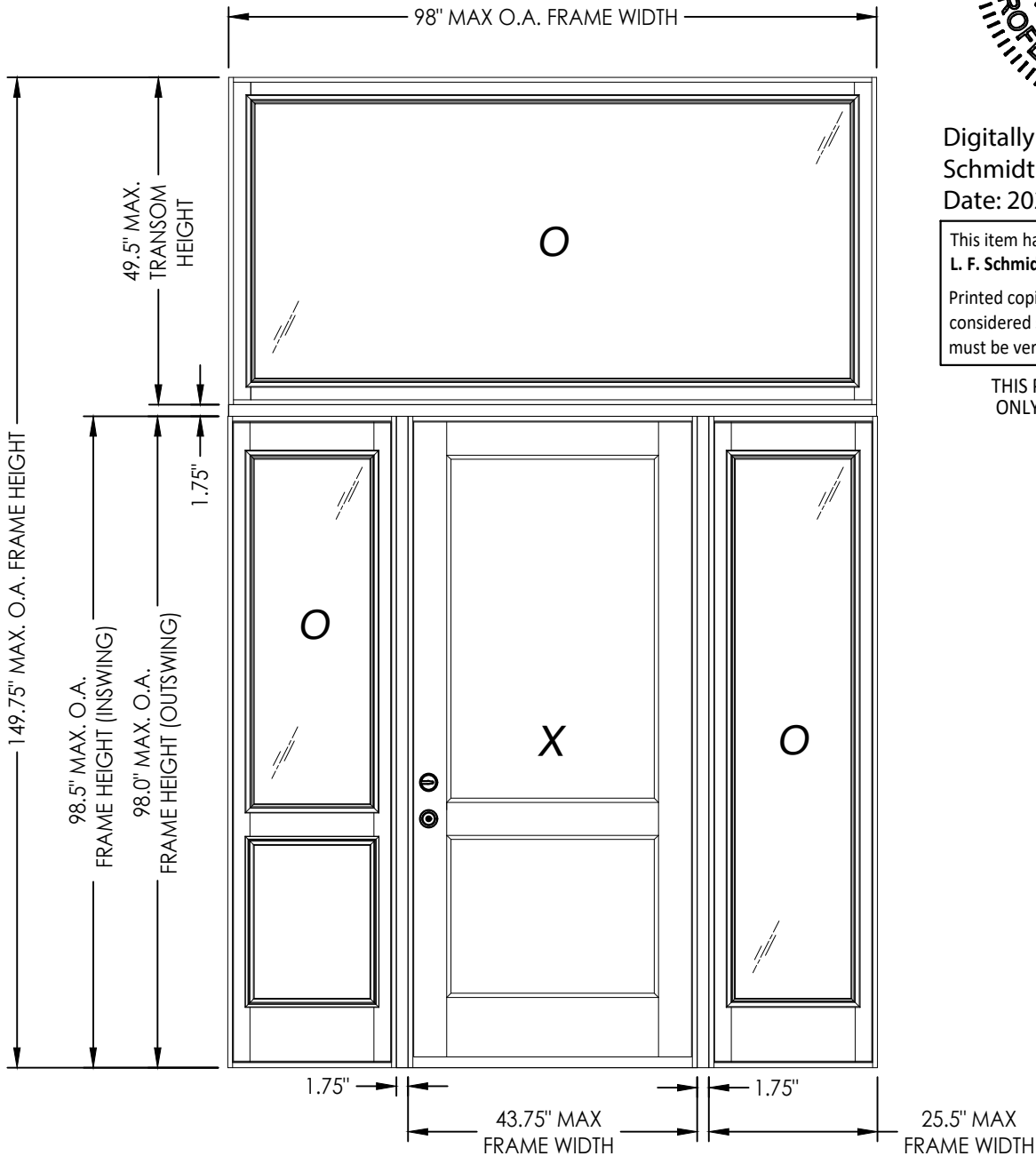
COASTAL IMPACT DOORS

"COASTAL IMPACT DOORS" WOOD GLAZED OR OPAQUE SINGLE DOOR w/ TRANSOM w/ or w/out SIDELITE(S) INSWING/OUTSWING "IMPACT"

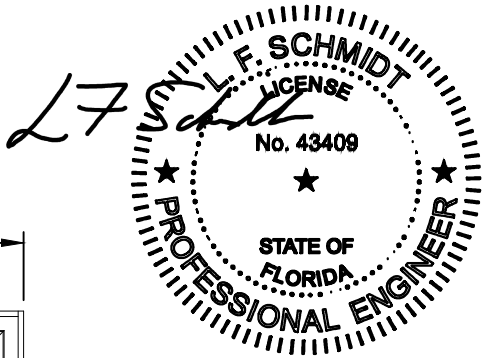
GENERAL NOTES

- This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in areas requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
O, OX, XO, OXO	+50.0	-50.0	+50.0	-50.0



Digitally signed by Lyndon F Schmidt
Date: 2023.09.27 10:29:56 -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

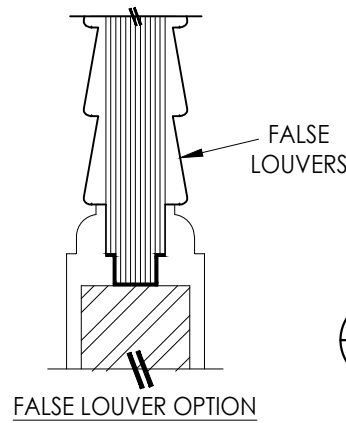
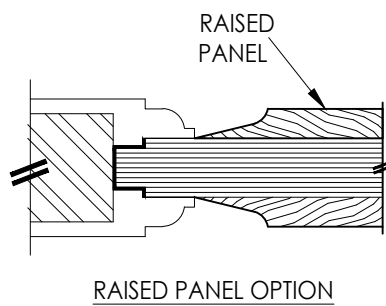
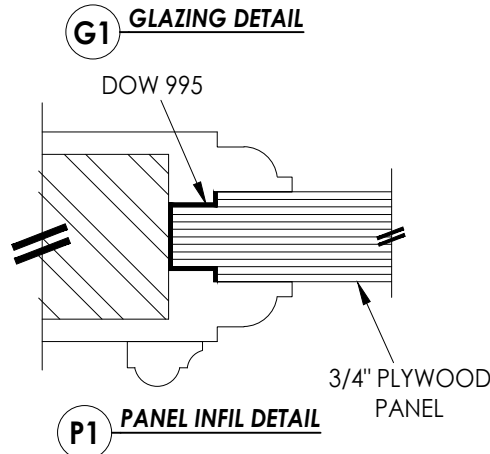
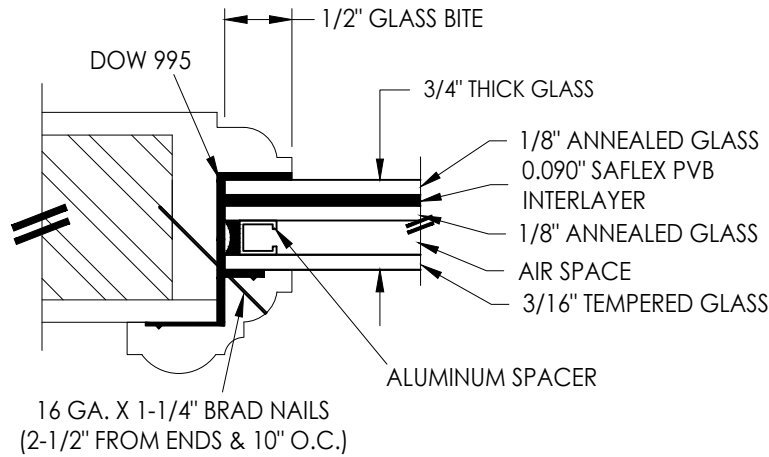
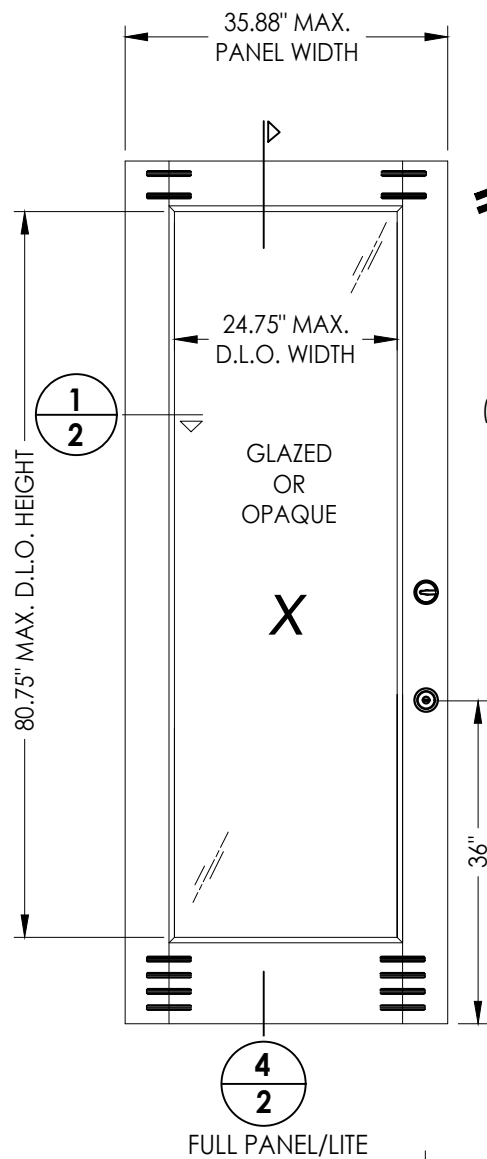
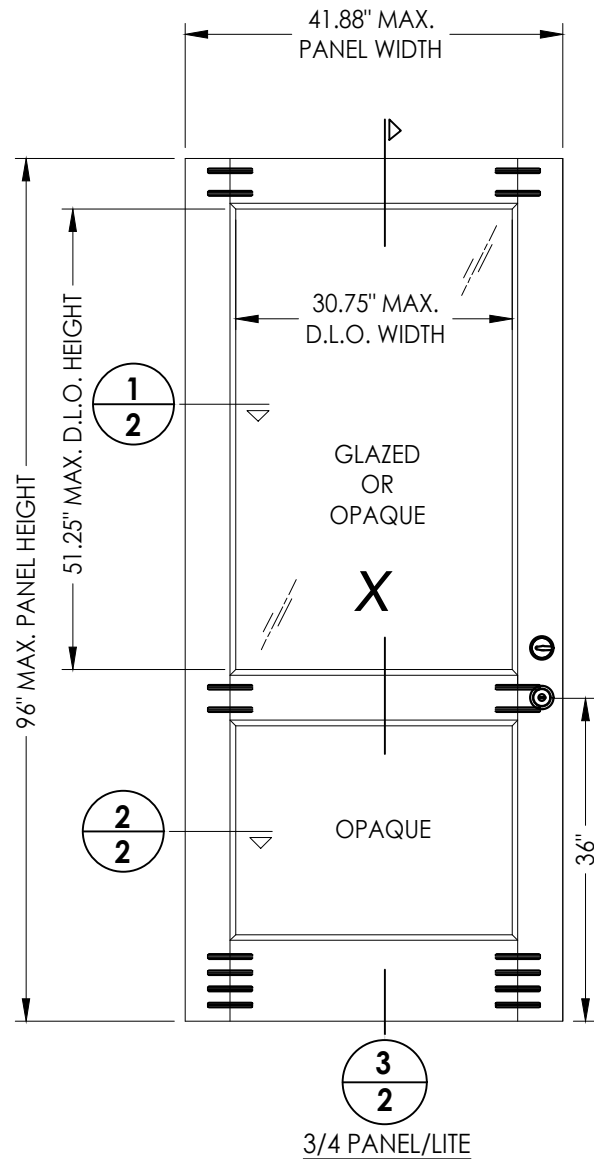
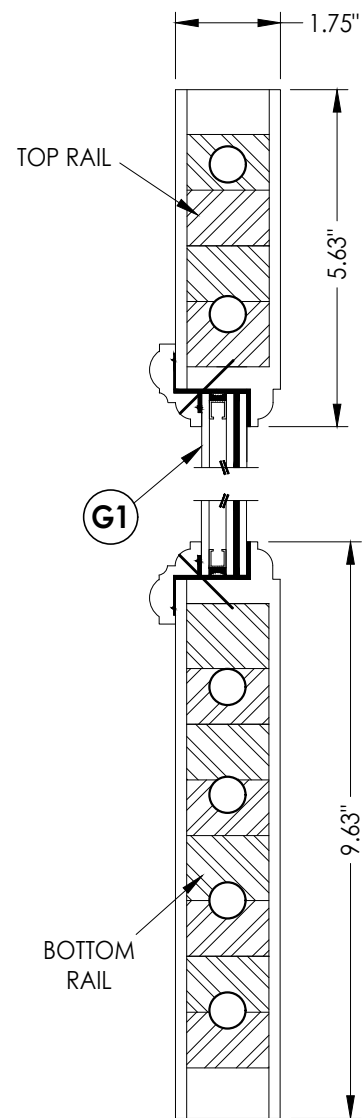
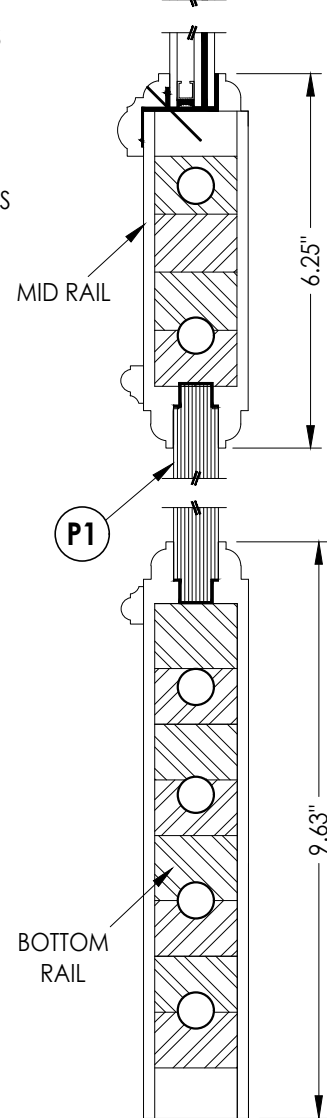
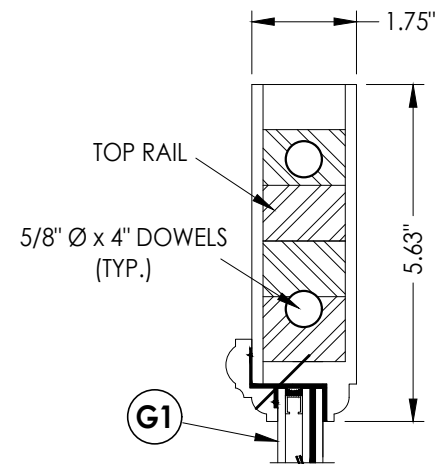
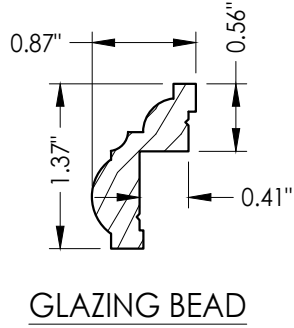
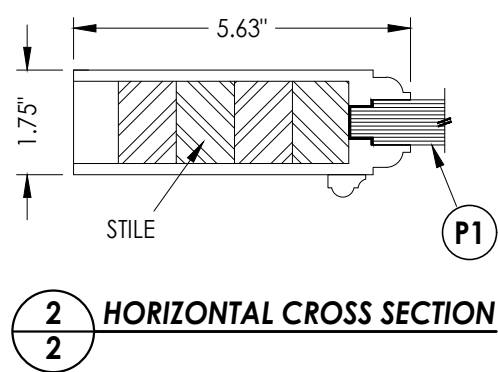
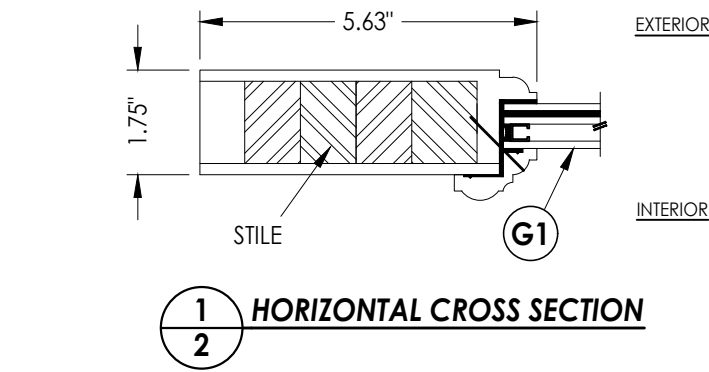
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS		
		DATE	BY	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-22393.3
SHEET 1 OF 14

Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.1-3.dwg



WOOD DOOR COMPONENTS:
VENEER/EDGES: CYPRESS (G = 0.42)
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)

40 **WOOD DOOR PANEL**
Glazed or Opaque

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

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

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
		BY

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

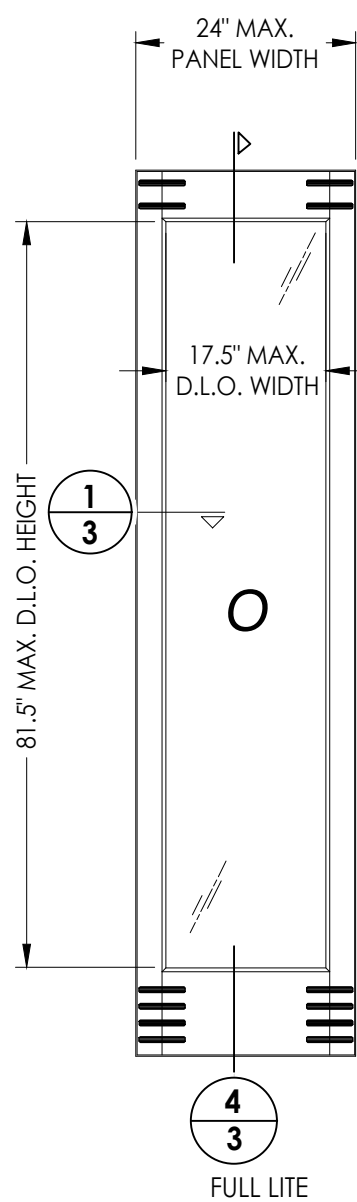
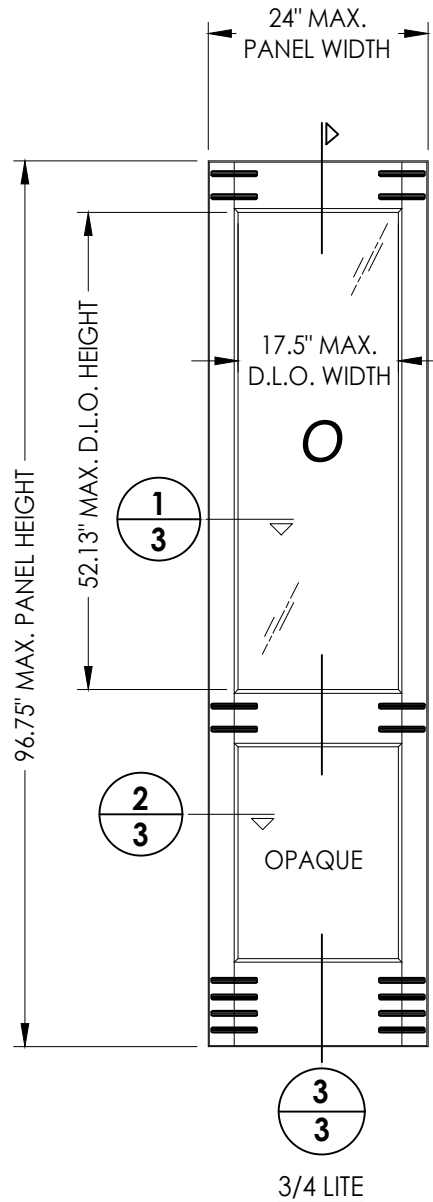
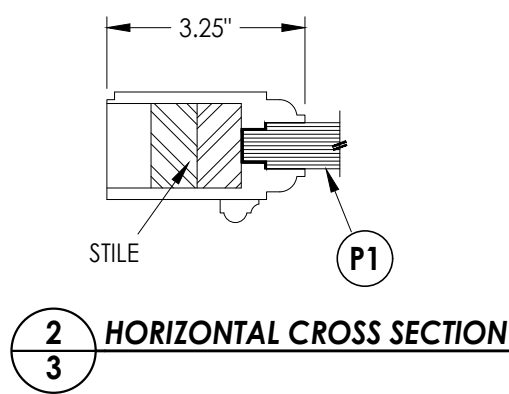
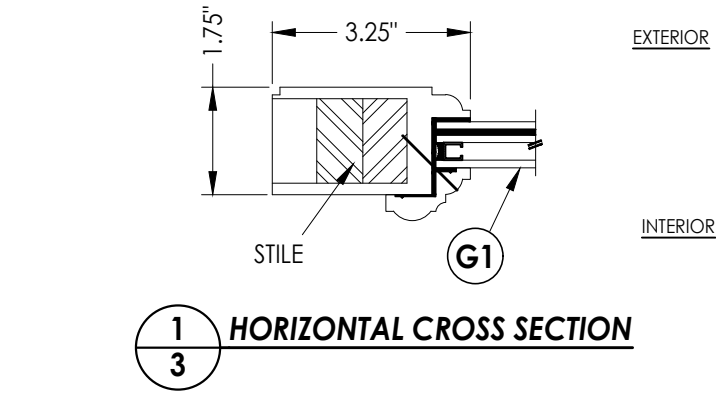
FL-22393.3

SHEET 2 OF 14

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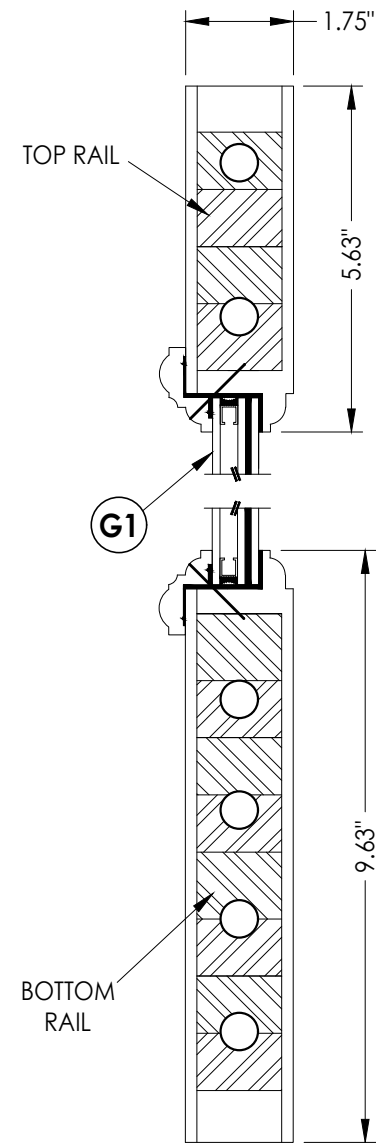
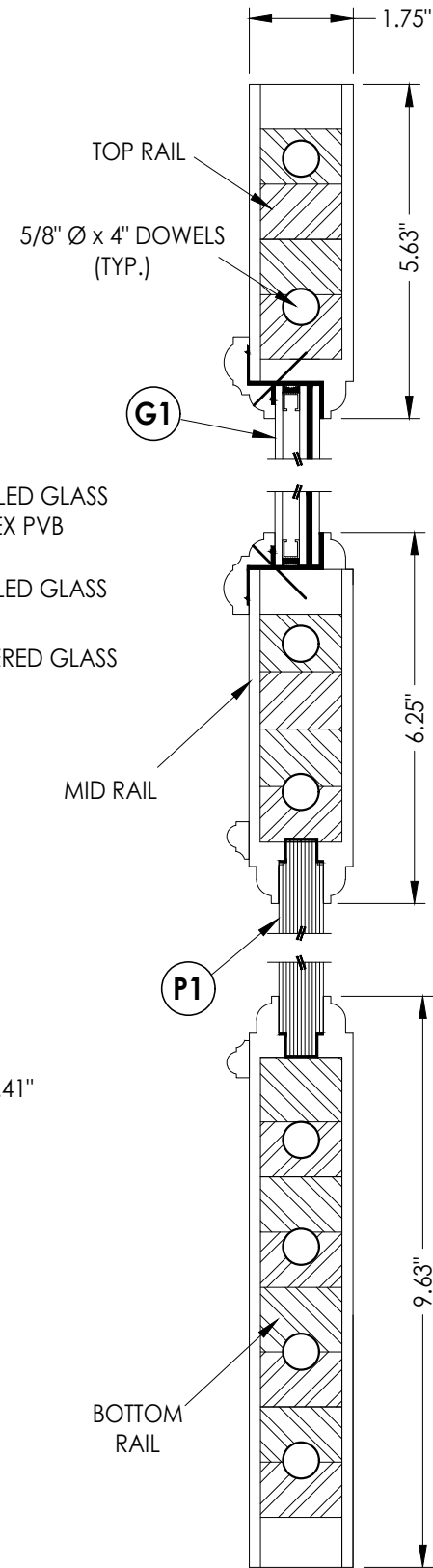
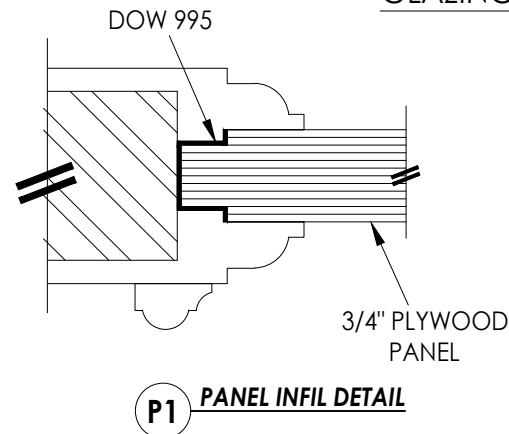
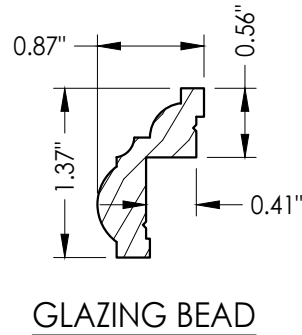
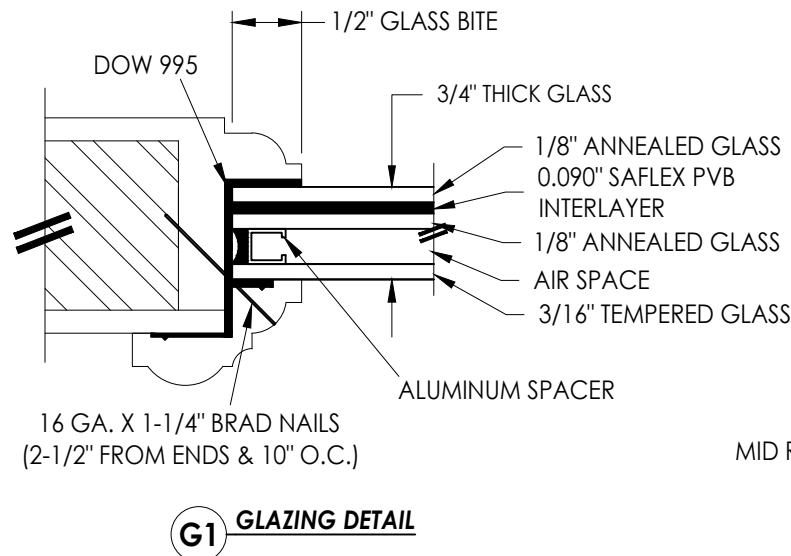
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50 **WOOD SIDELITE PANEL**

WOOD SIDELITE COMPONENTS:
VENEER/EDGES: CYPRESS (G = 0.42)
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)



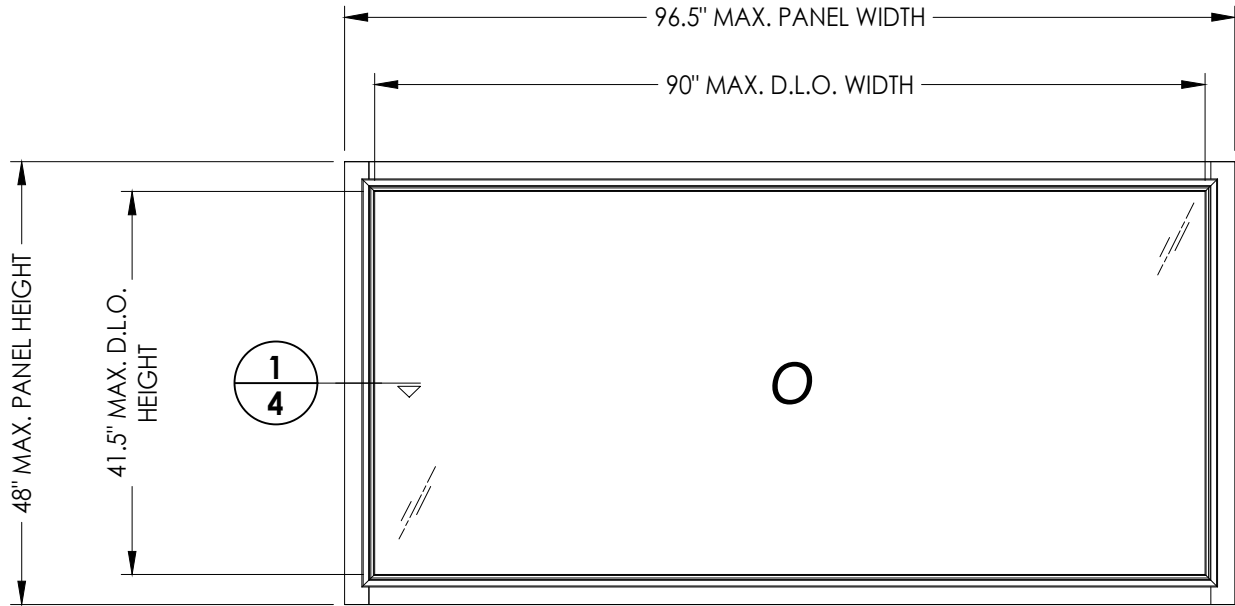
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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

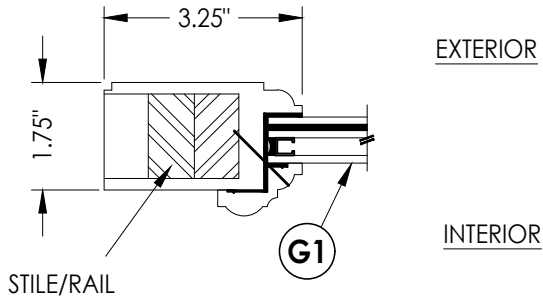
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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WOOD TRANSOM COMPONENTS:
VENEER/EDGES: CYPRESS (G = 0.42)
ENGINEERED STAVE CORE: SIPO (UTILE) (G = 0.53)



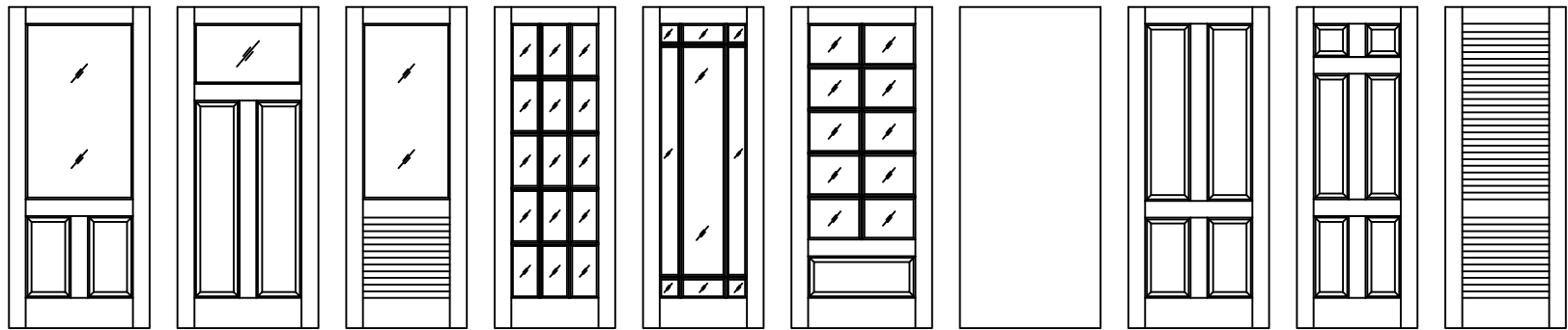
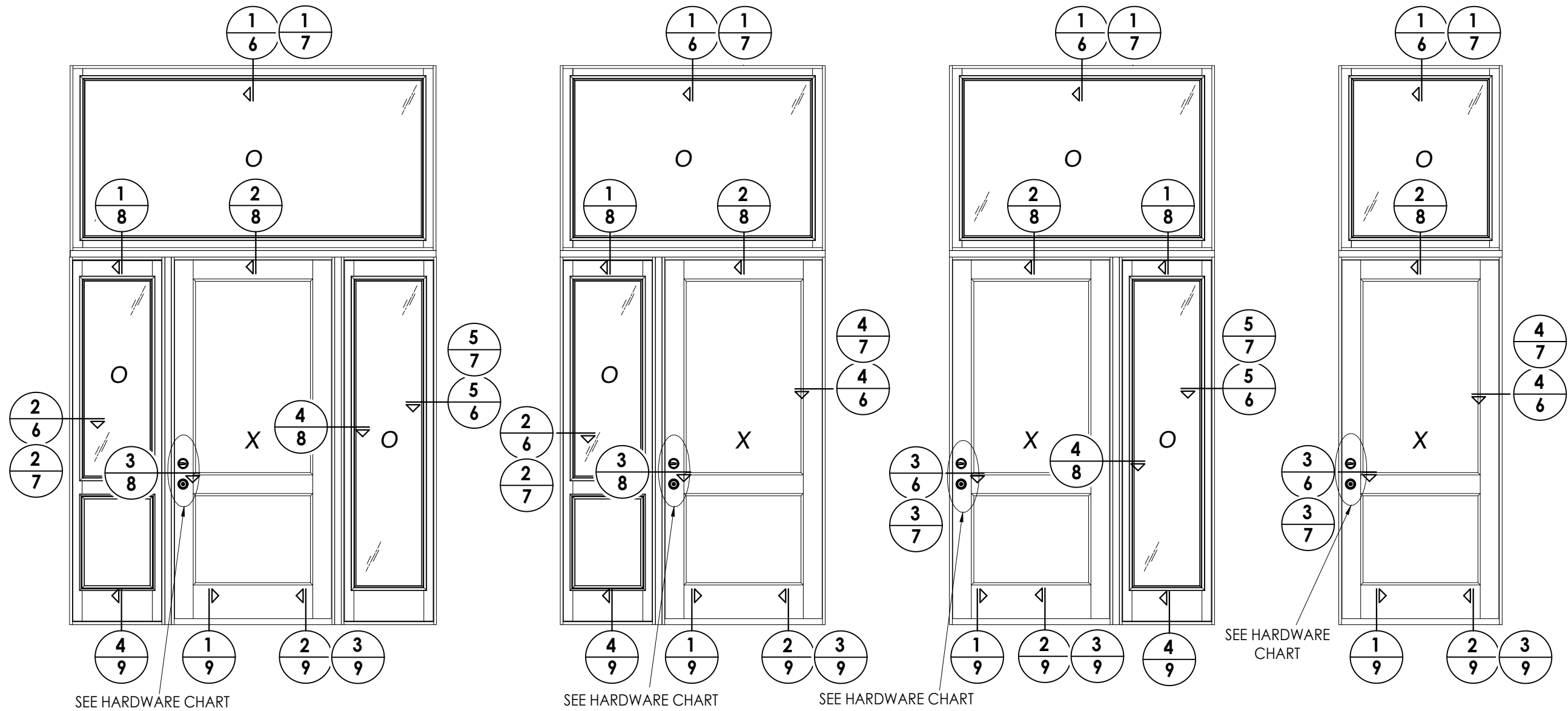
70 WOOD TRANSOM PANEL



1 4 HORIZONTAL CROSS SECTION

DATE: 6/5/17				Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409			
SCALE: N.T.S.				PRODUCT: ALL PHASE CUSTOM MILL SHOP "Impact" Wood Doors			
DWG. BY: JK				PART OR ASSEMBLY: TRANSOM DETAILS			
CHK. BY: LFS				REVISING ENGINEER: R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
DRAWING NO.: FL-22393.3							
SHEET 4 OF 14							

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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
EMTEK	Mortise: 3545 Entry Set
SCHLAGE	KNOB: F51 DEADBOLT: B60N
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)

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

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

PART OR ASSEMBLY:
ELEVATIONS

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
NO.	DATE			BY

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-22393.3

SHEET 5 OF 14

RW

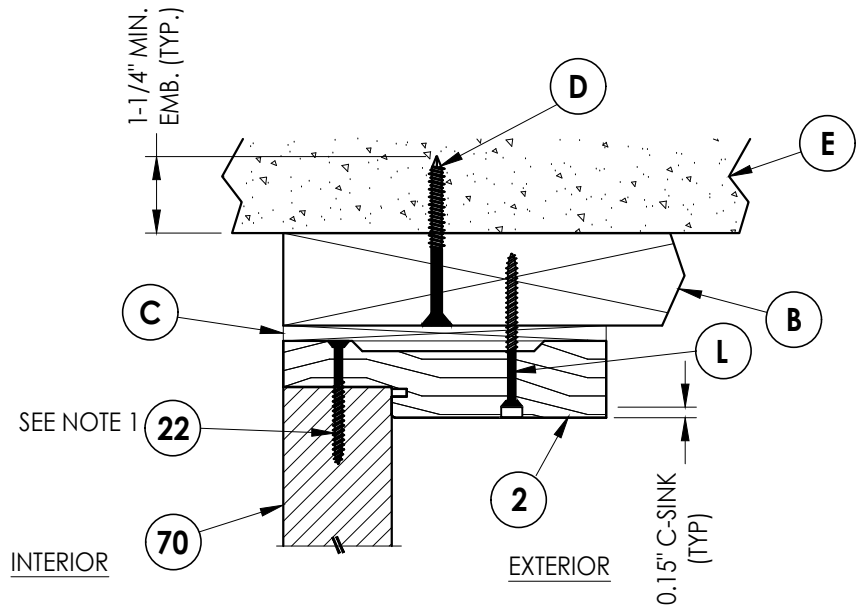
BUILDING CONSULTANTS, INC.

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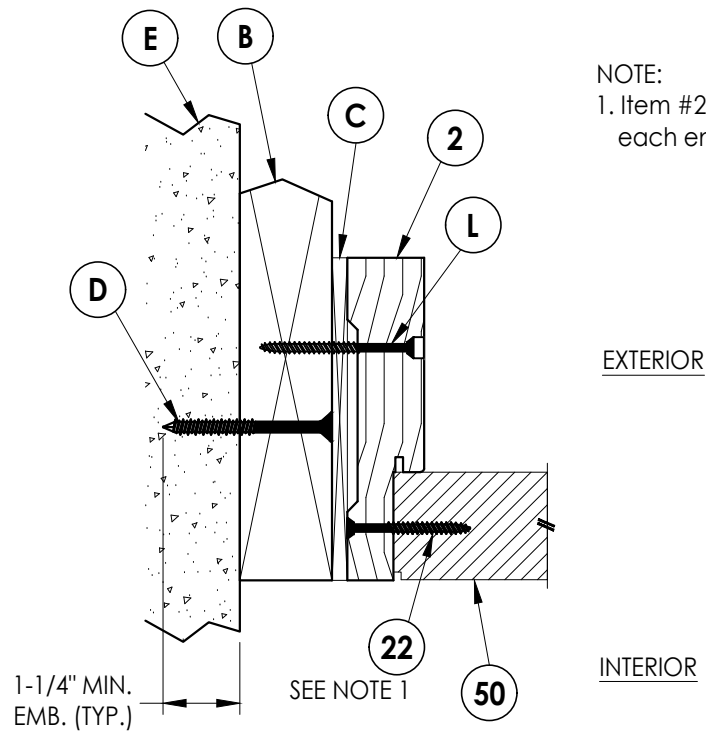
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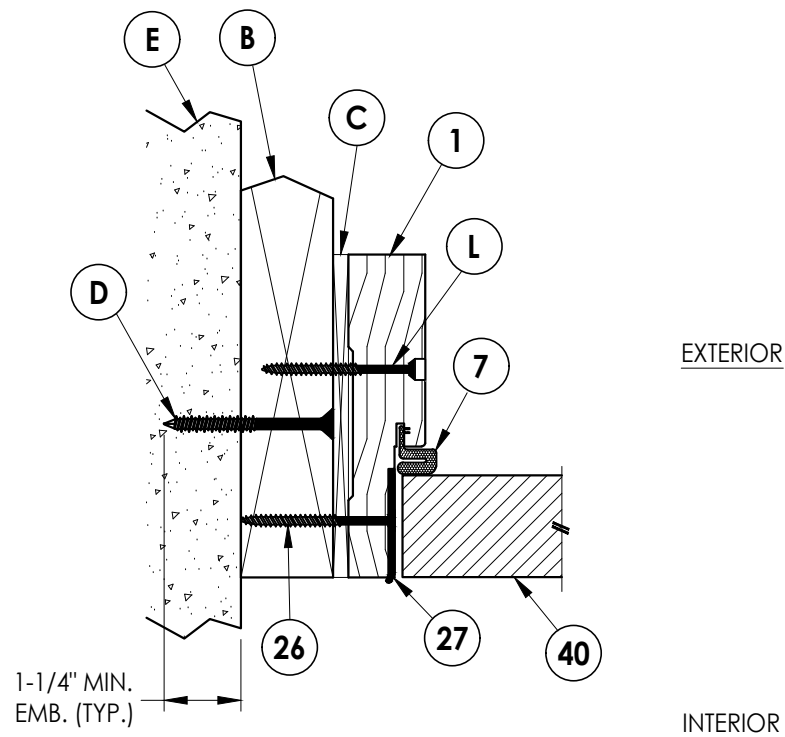


1
6 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)

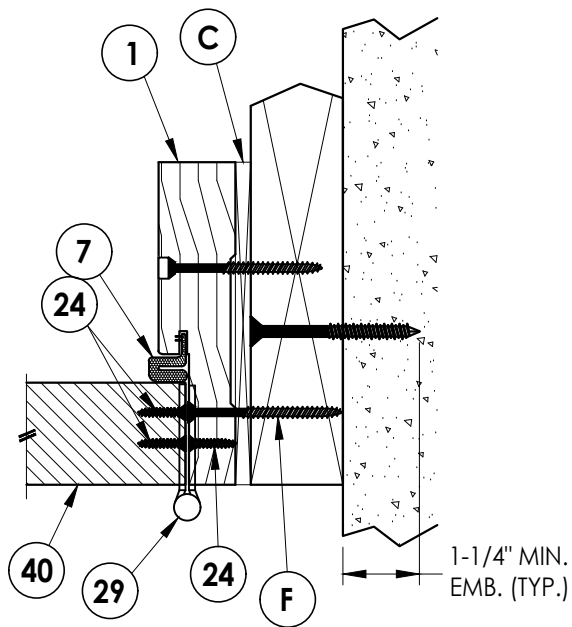


NOTE:
1. Item #22 located 4" from
each end then 7 more (9 total).

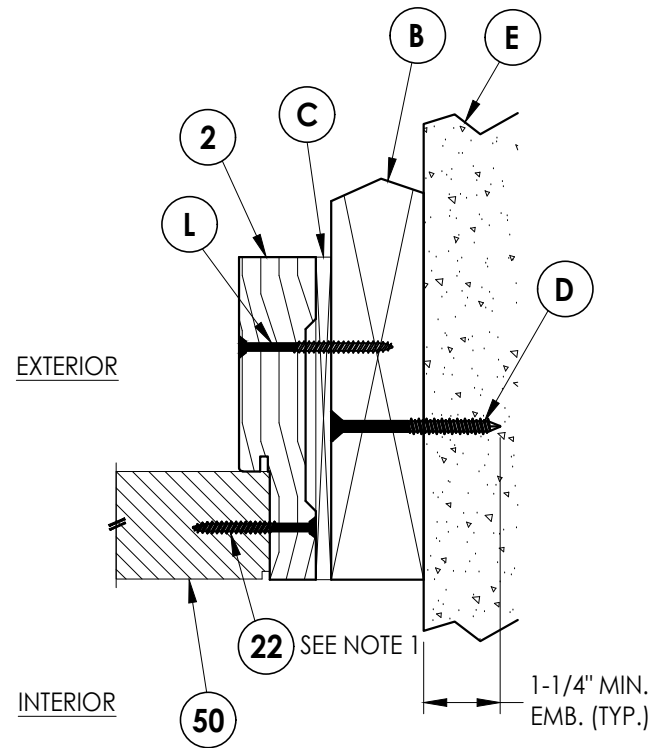
2
6 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



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



4
6 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



5
6 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)

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

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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
		BY

DATE: 6/5/17

SCALE: N.T.S.

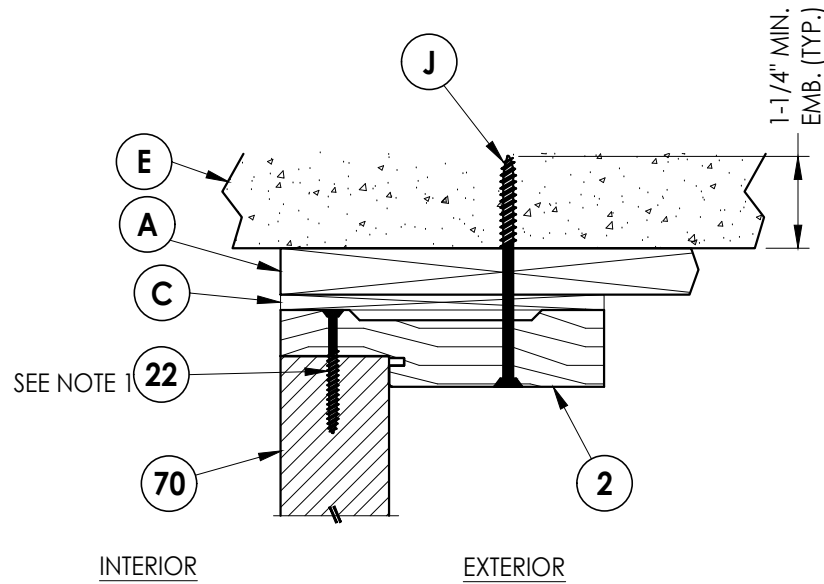
DWG. BY: JK

CHK. BY: LFS

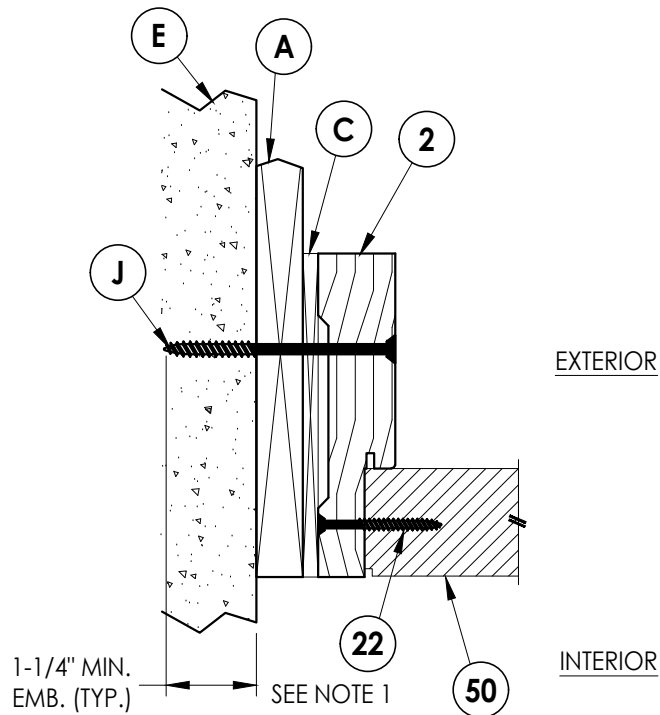
DRAWING NO.:
FL-22393.3

SHEET 6 OF 14

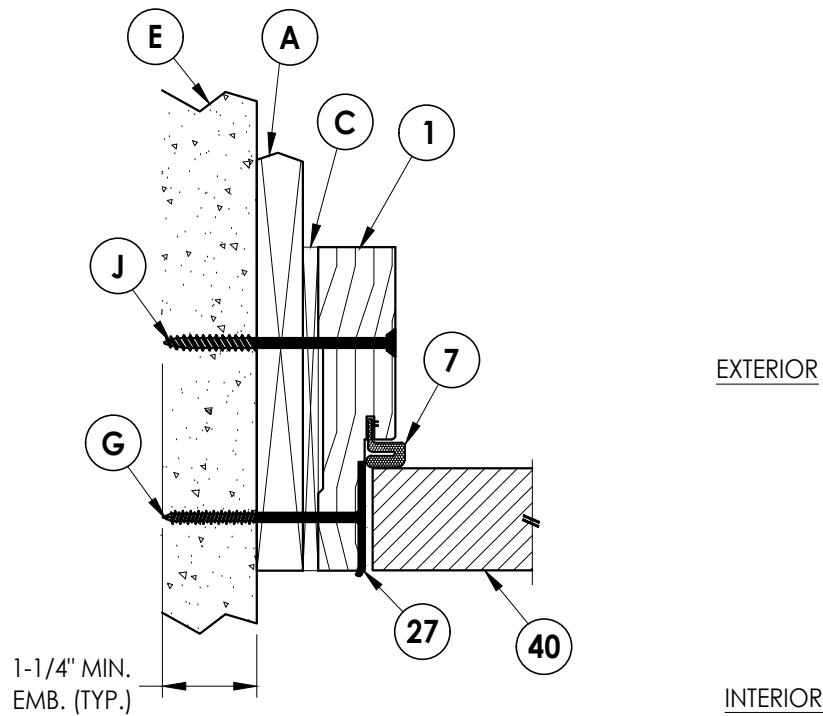
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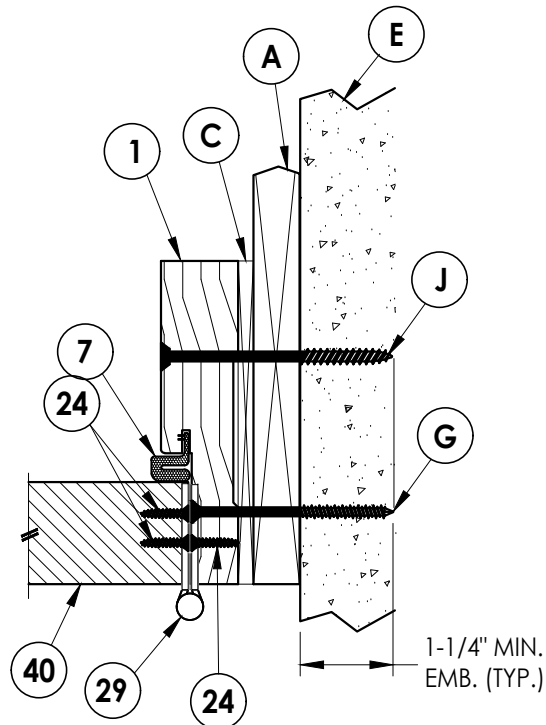
1
7 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



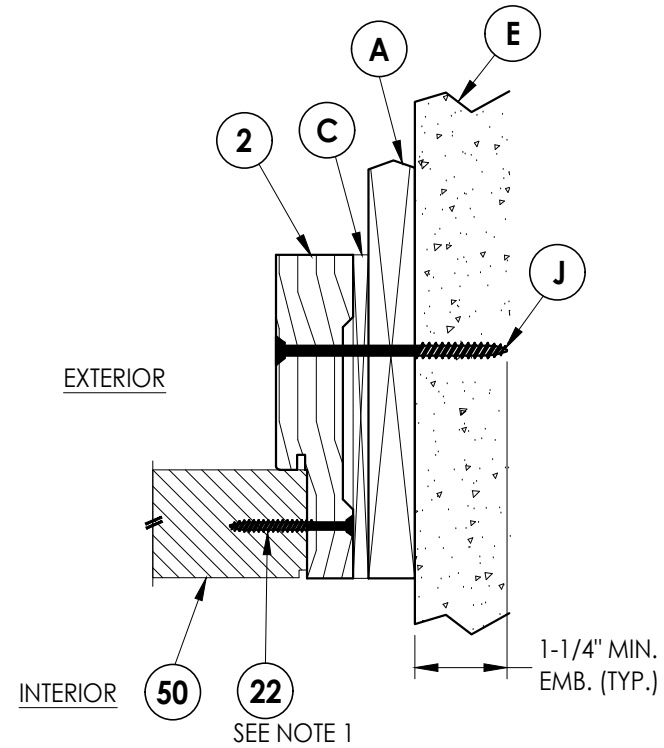
2
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



3
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



4
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)



5
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Inswing shown (Outswing similar)

NOTE:
1. Item #22 located 4" from
each end then 7 more (9 total).
2. Item #22 located 6" from
each end (2 total).

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:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

		REVISIONS			
		NO.	DATE	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.

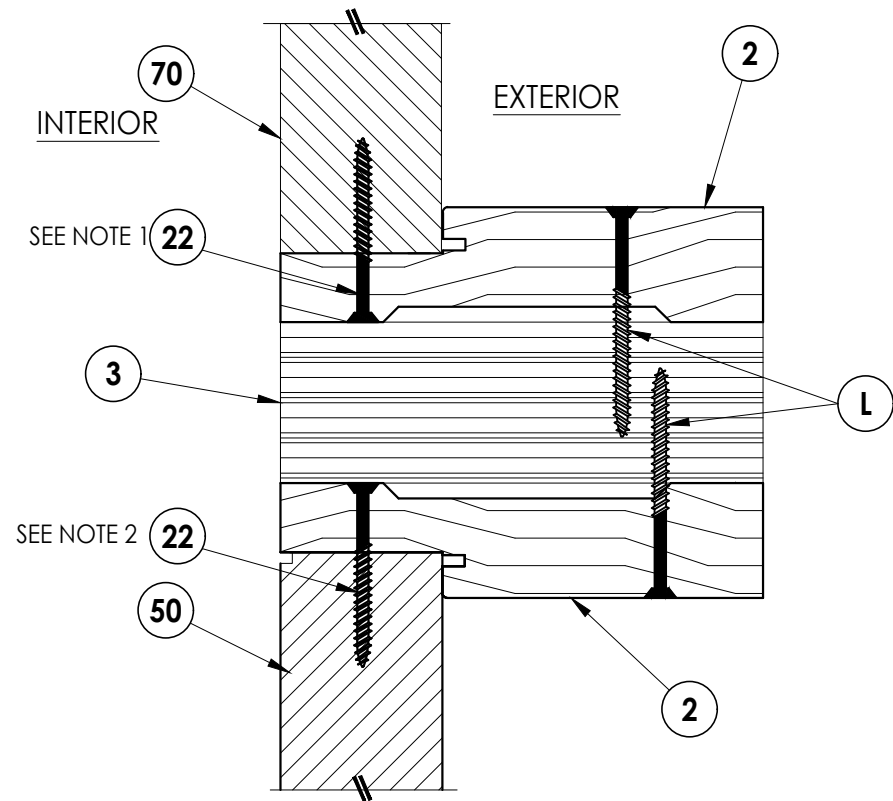
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CHK. BY: LFS

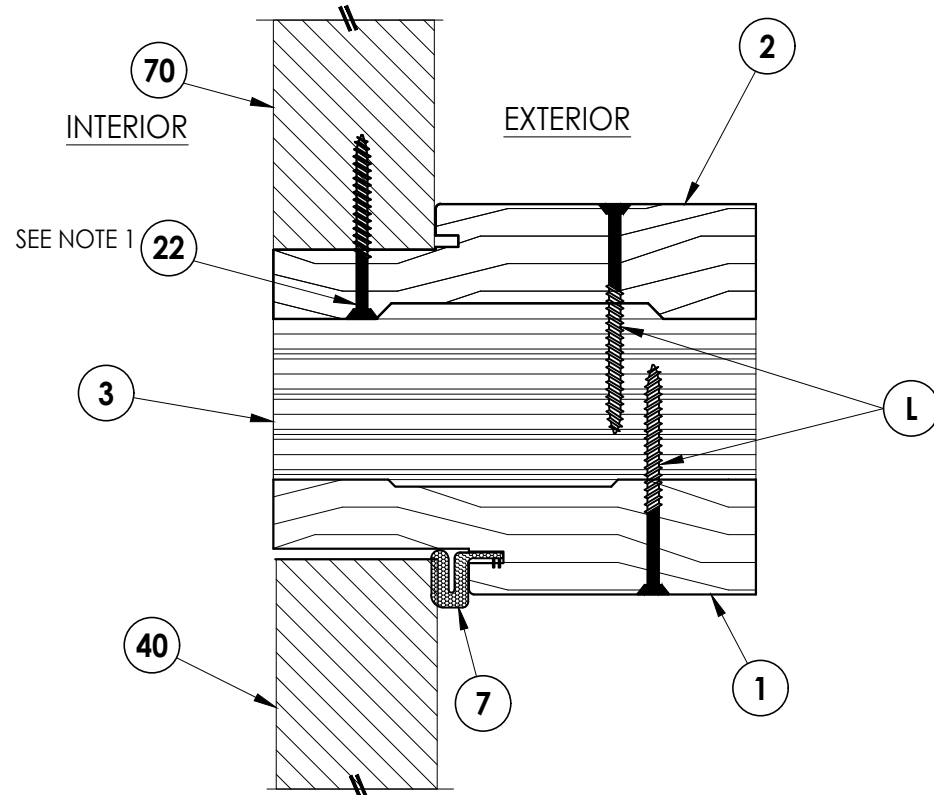
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FL-22393.3

SHEET 7 OF 14

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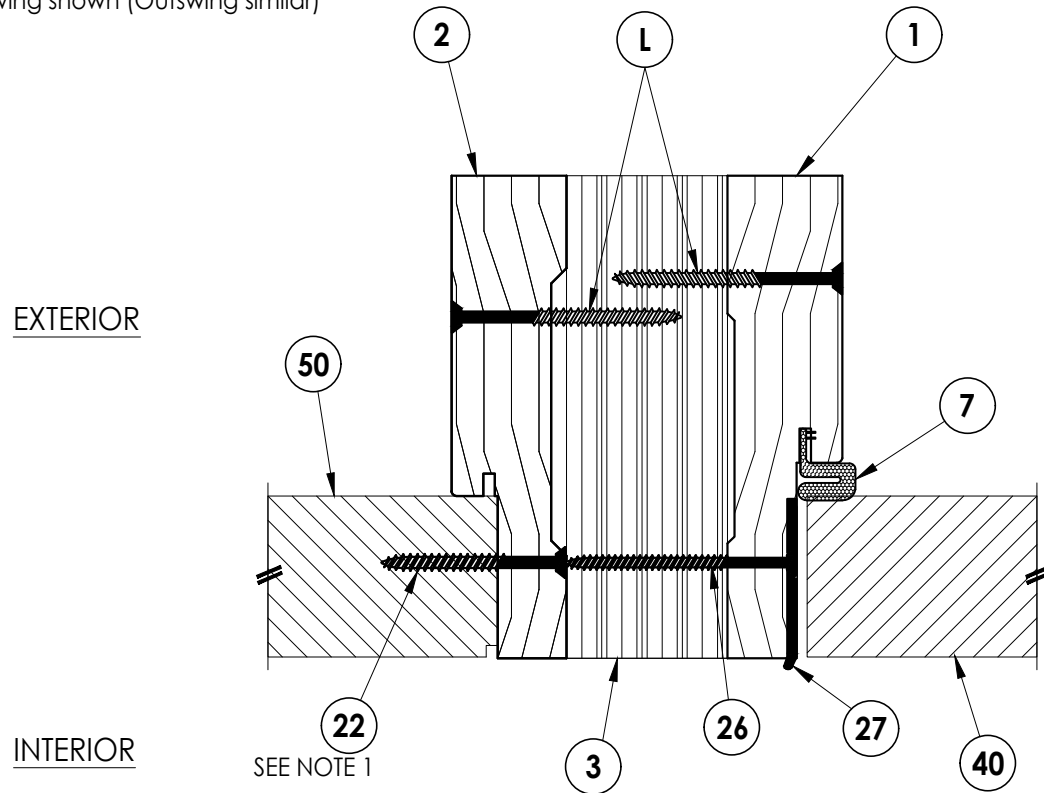


1
8 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)

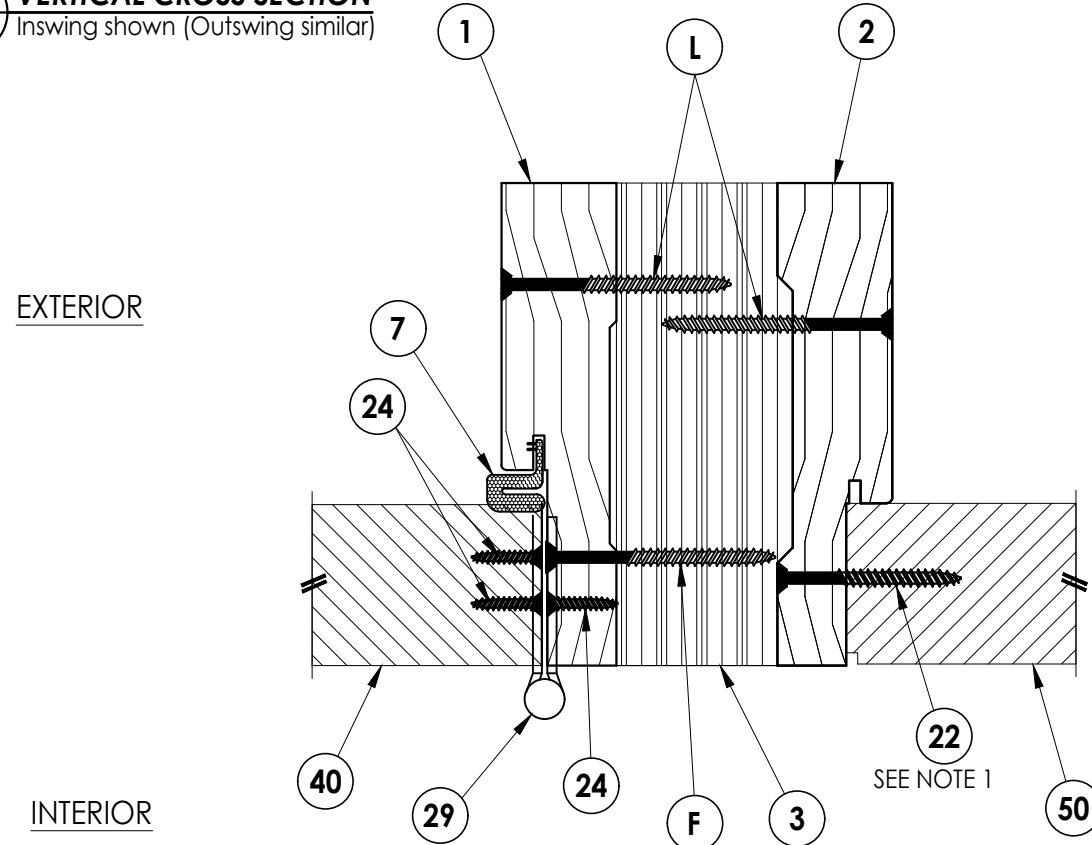


2
8 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)

NOTE:
1. Item #22 located 4" from
each end then 7 more (9 total).
2. Item #22 located 6" from
each end (2 total).



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



4
8 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

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

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS

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
		BY

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

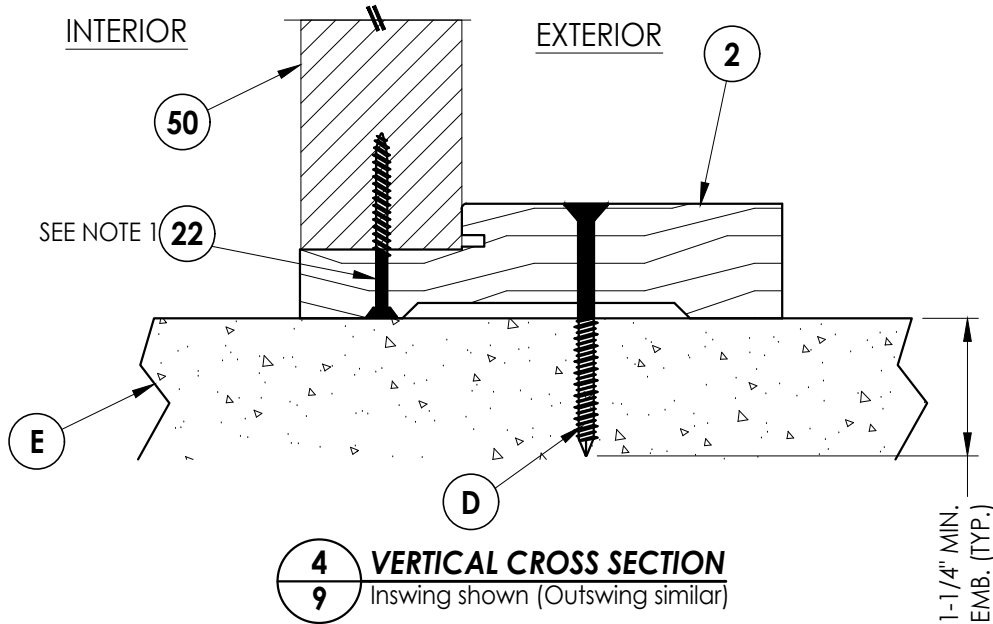
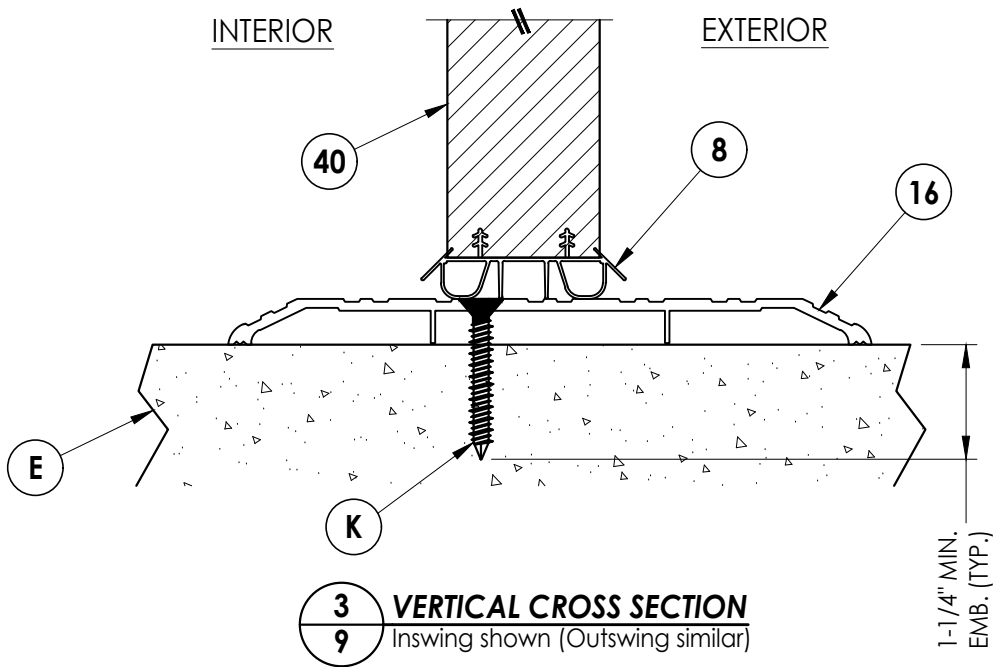
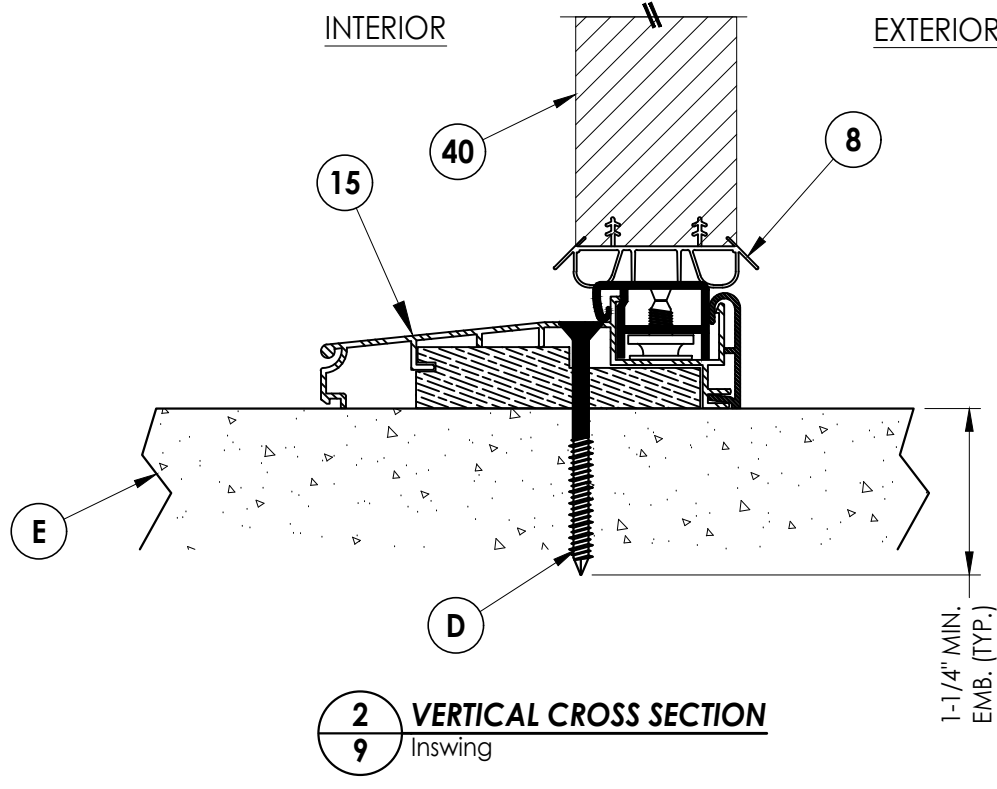
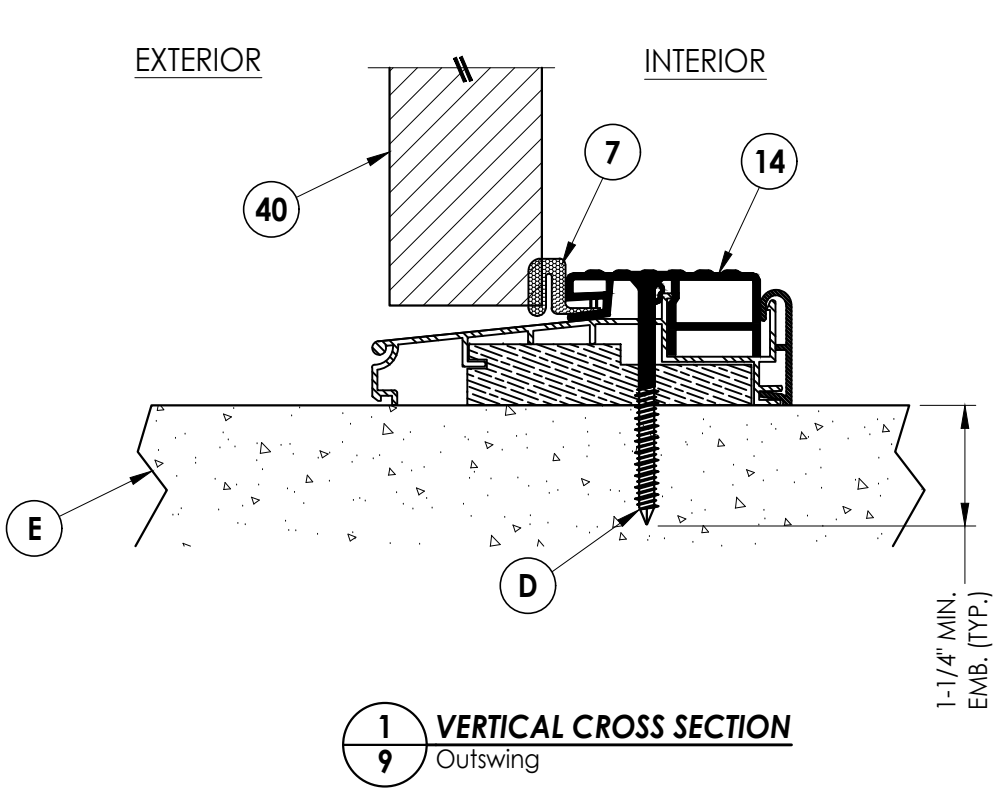
DRAWING NO.:

FL-22393.3

SHEET 8 OF 14

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NOTE:
1. Item #22 located 6" from
each end (2 total).



Documents Prepared By:
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P.E. No. 43409

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FBPE Registry No. 9813

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

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLD)

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.

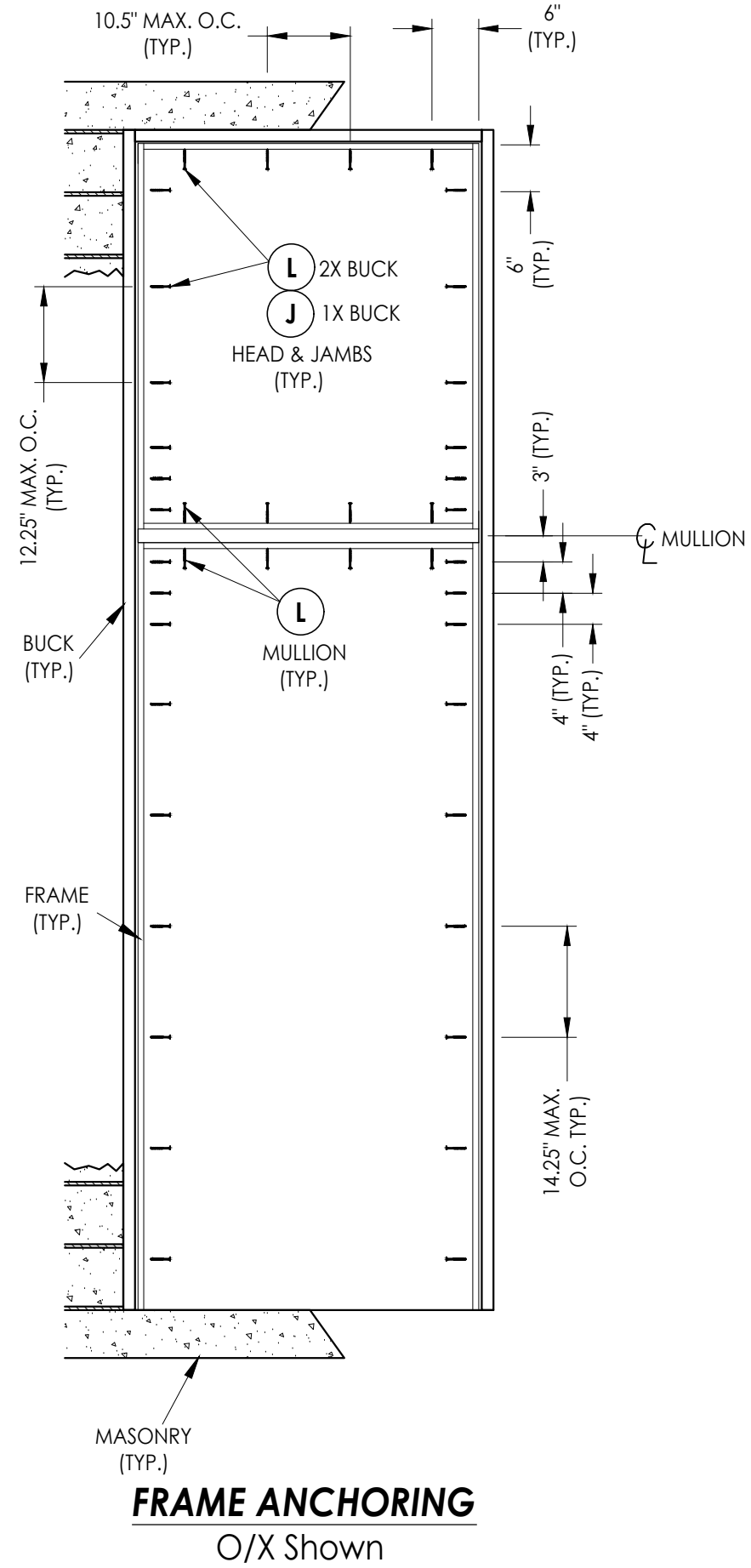
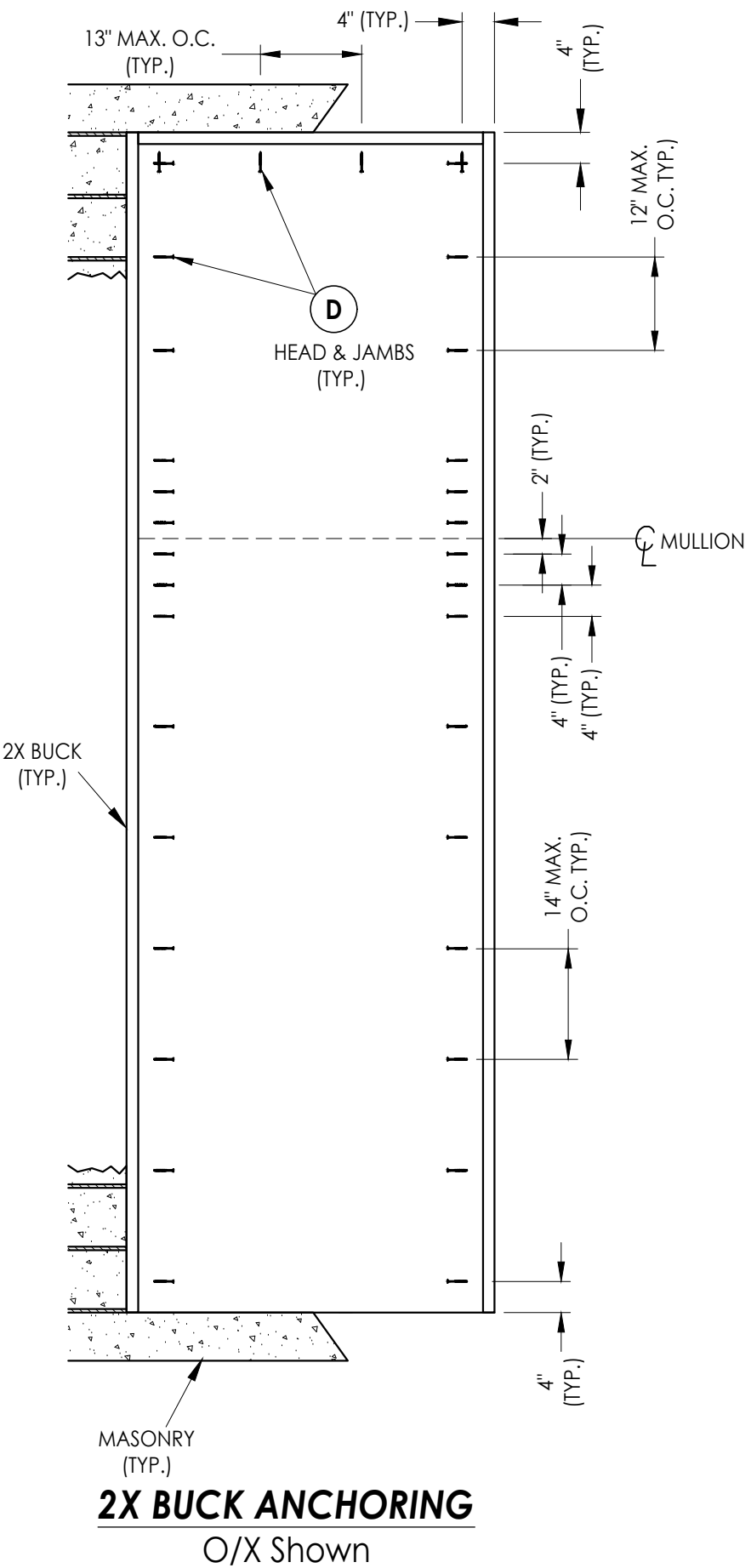
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CHK. BY: LFS

DRAWING NO.:

FL-22393.3

SHEET 9 OF 14



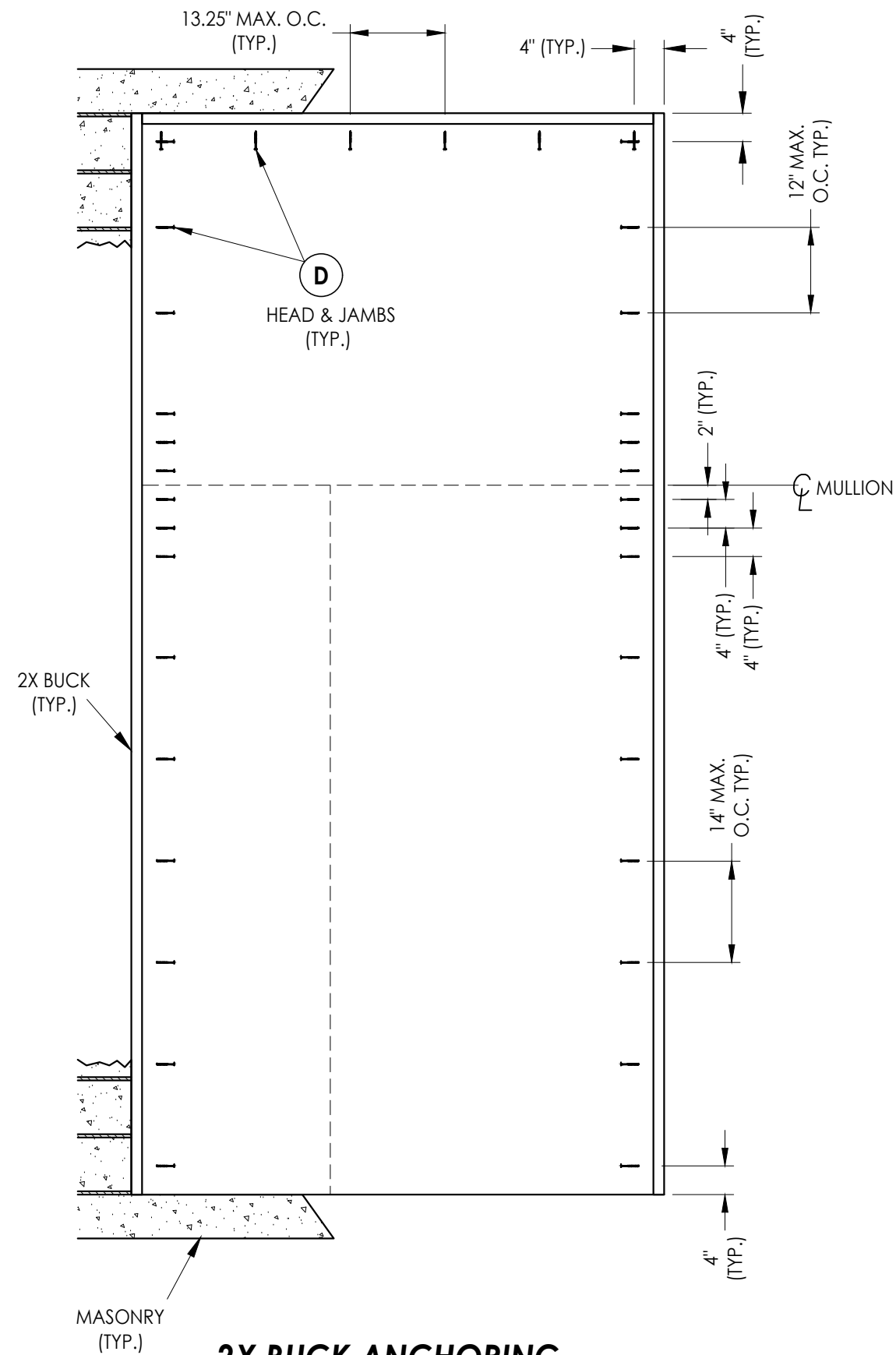
NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD WOOD SCREWS.

[illegible]

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

PART OR ASSEMBLY:
BUCK & FRAME, ANCHORING
(O/X)

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FBPE Registry No. 9813

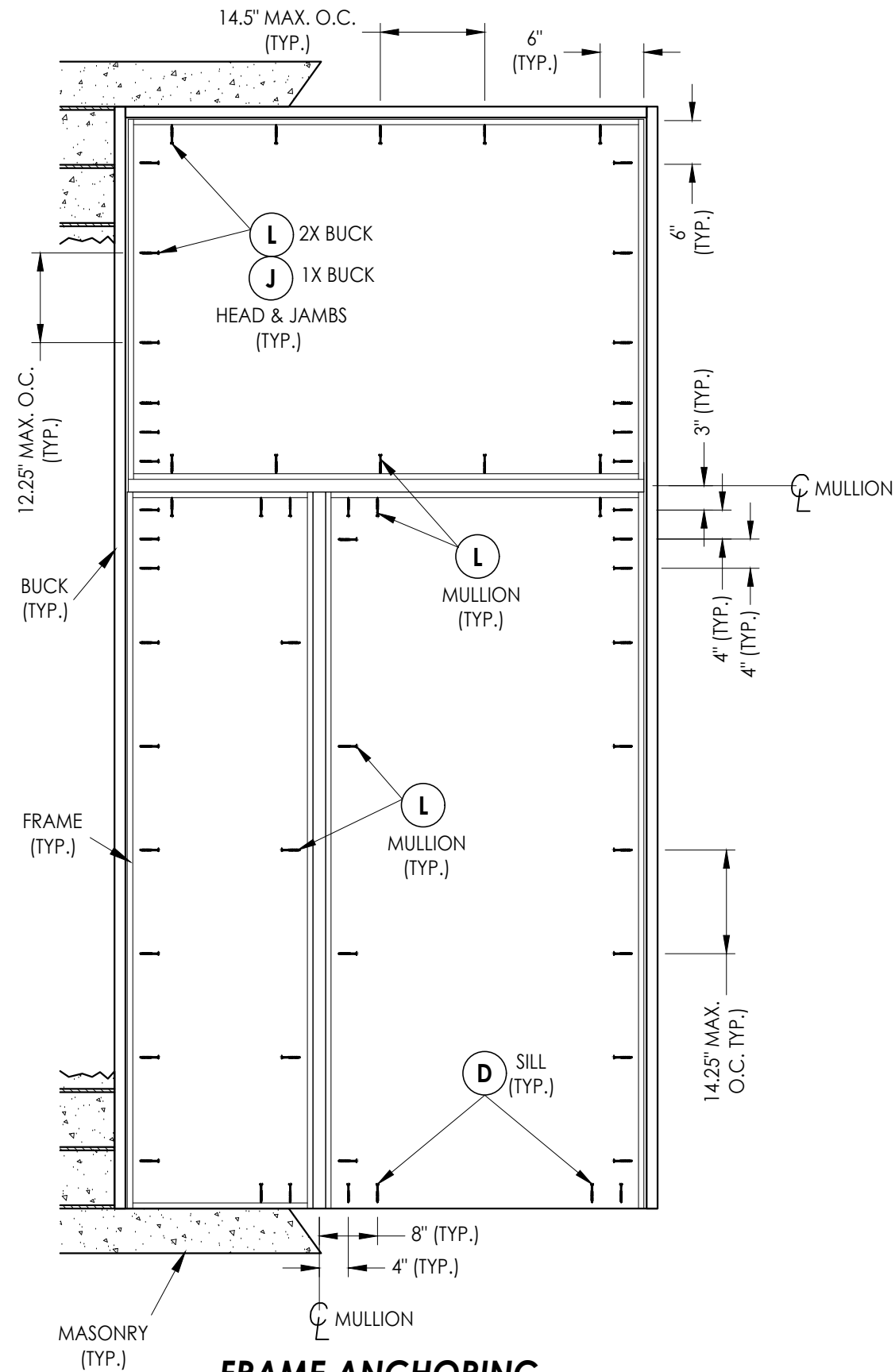


2X BUCK ANCHORING

O/OX Shown (O/XO - Similar)

NOTE:

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



FRAME ANCHORING

O/OX Shown (O/XO - Similar)

[illegible]

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

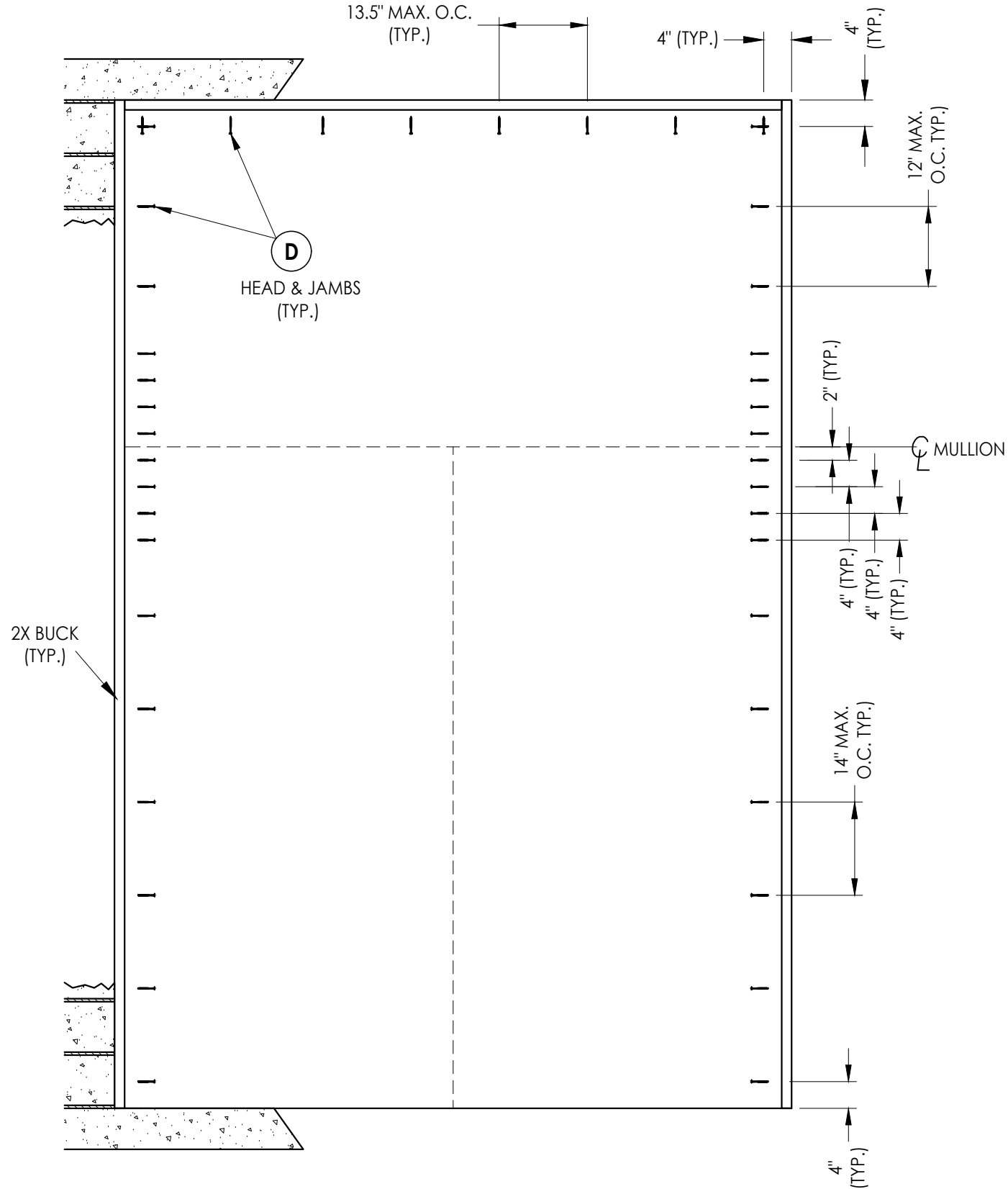
PISTON OR ASSEMBLY:
BUCK & FRAME ANCHORING
(0/OX)

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

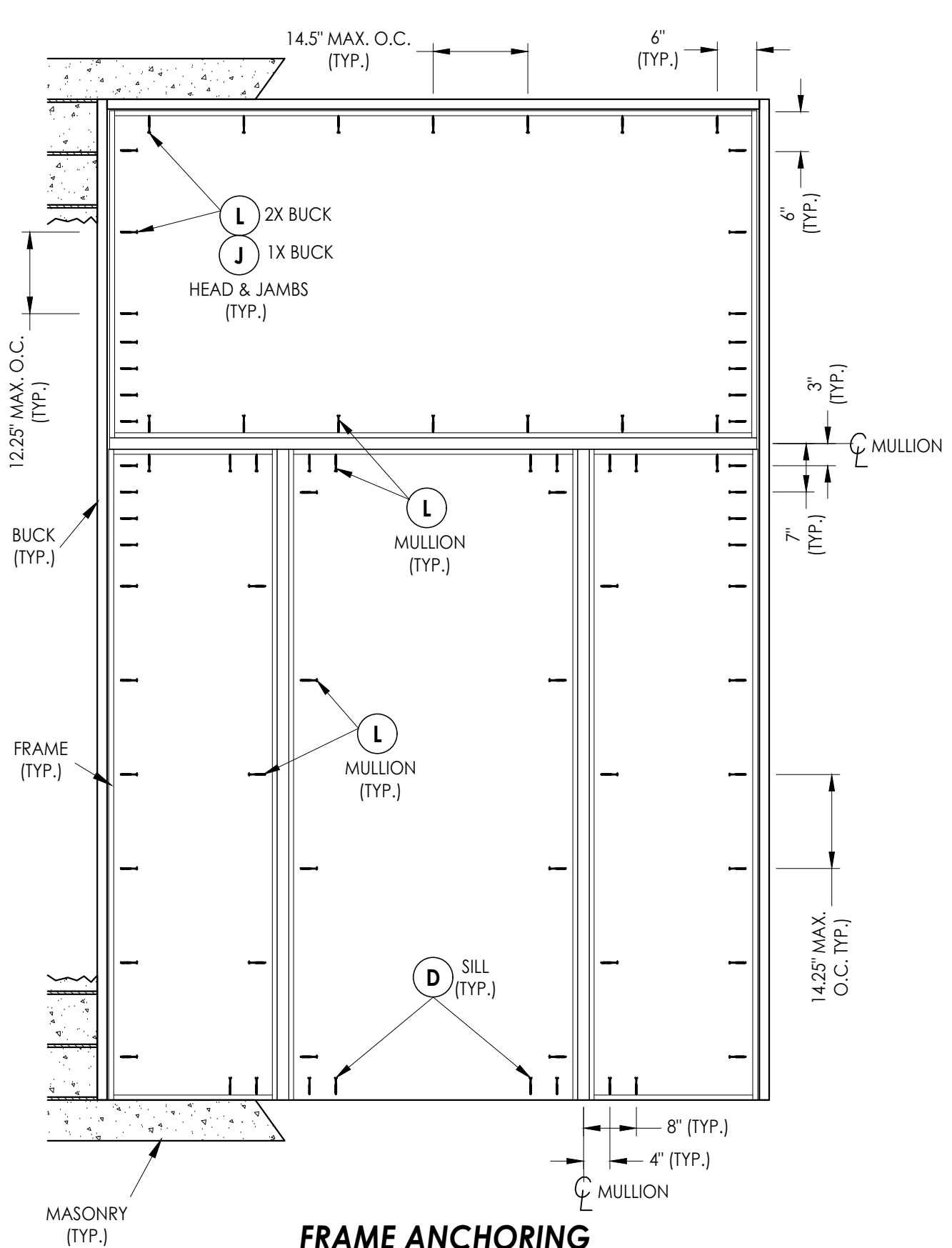
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

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



2X BUCK ANCHORING
O/OXO



FRAME ANCHORING
O/OXO

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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:
BUCK & FRAME ANCHORING
(O/OXO)

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
NO.	DATE	BY

DATE: 6/5/17

SCALE: N.T.S.

DWG. BY: JK

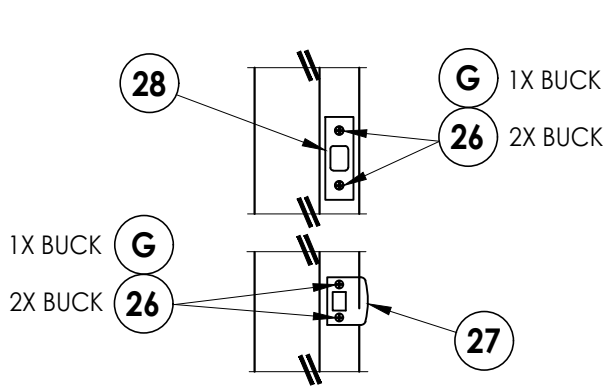
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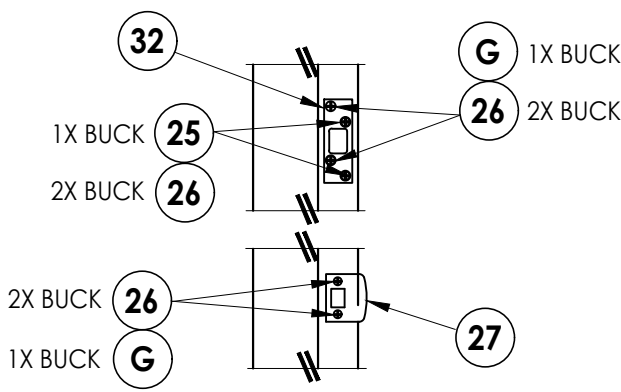
FL-22393.3

SHEET 12 OF 14

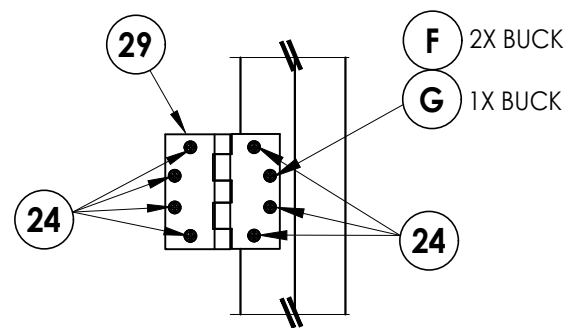
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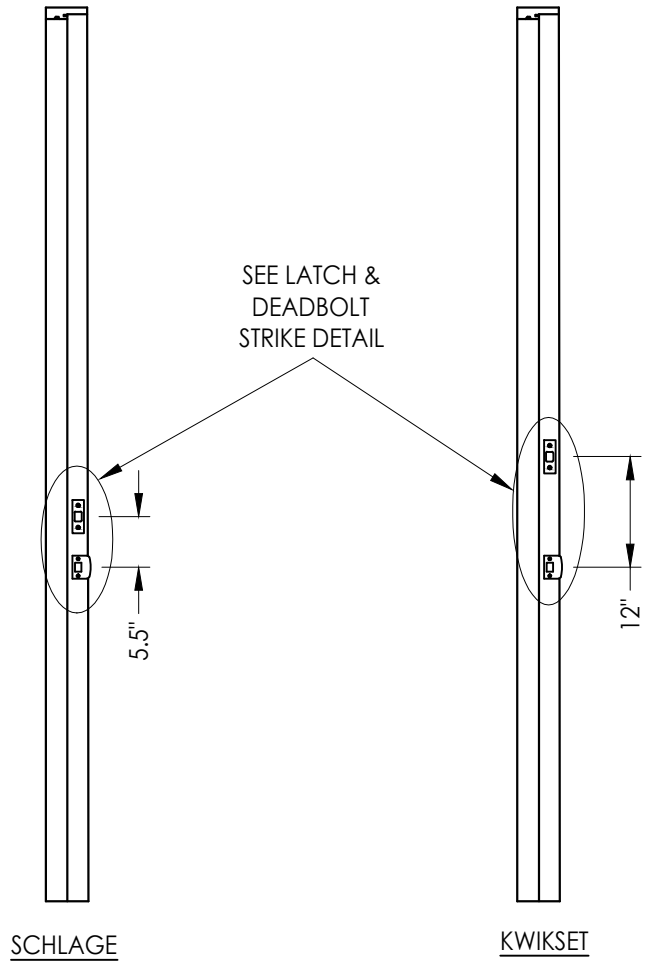
LATCH & DEADBOLT STRIKE DETAIL
SCHLAGE



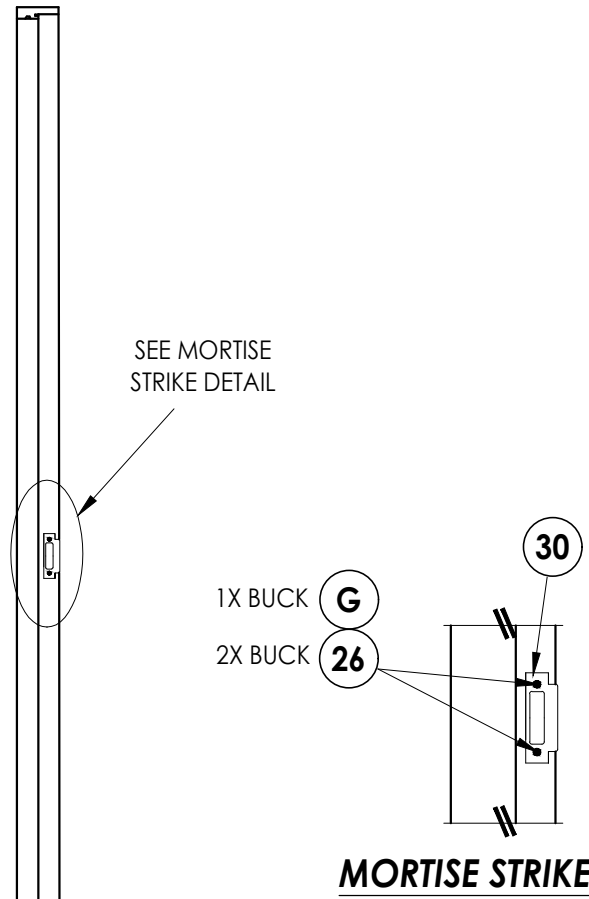
LATCH & DEADBOLT STRIKE DETAIL
KWIKSET



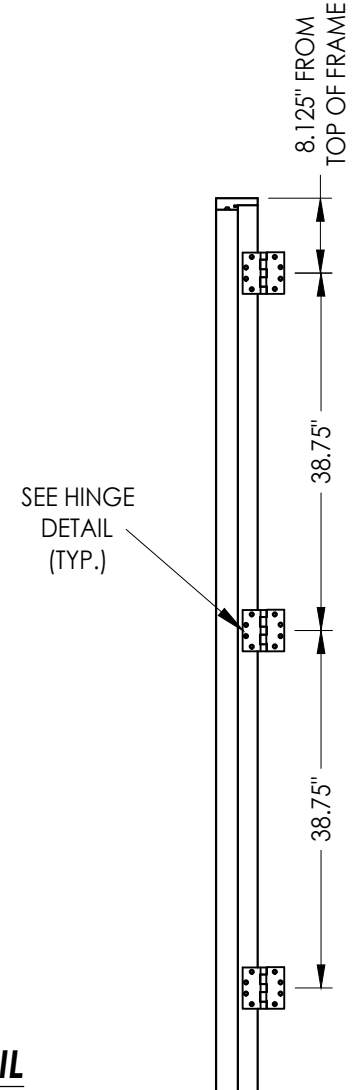
HINGE DETAIL



LATCH & DEADBOLT DETAILS



MORTISE LOCK DETAILS



HINGE JAMB

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		
				BY		

DATE: 6/5/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-22393.3
SHEET 13 OF 14

PRODUCT: ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors
PART OR ASSEMBLY: HARDWARE DETAILS

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

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
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
K	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	JAMB (Door)	WOOD
2	JAMB (Transom and Sidelite)	WOOD
3	MULLION	LSL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
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
28	DEADBOLT STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
30	MORTISE STRIKE PLATE	STEEL
32	DEADBOLT SECURITY STRIKE PLATE	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
70	TRANSOM PANEL	-

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

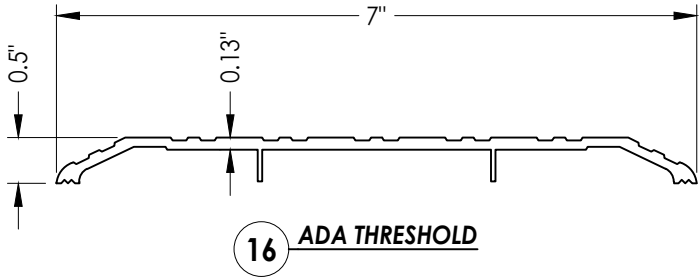
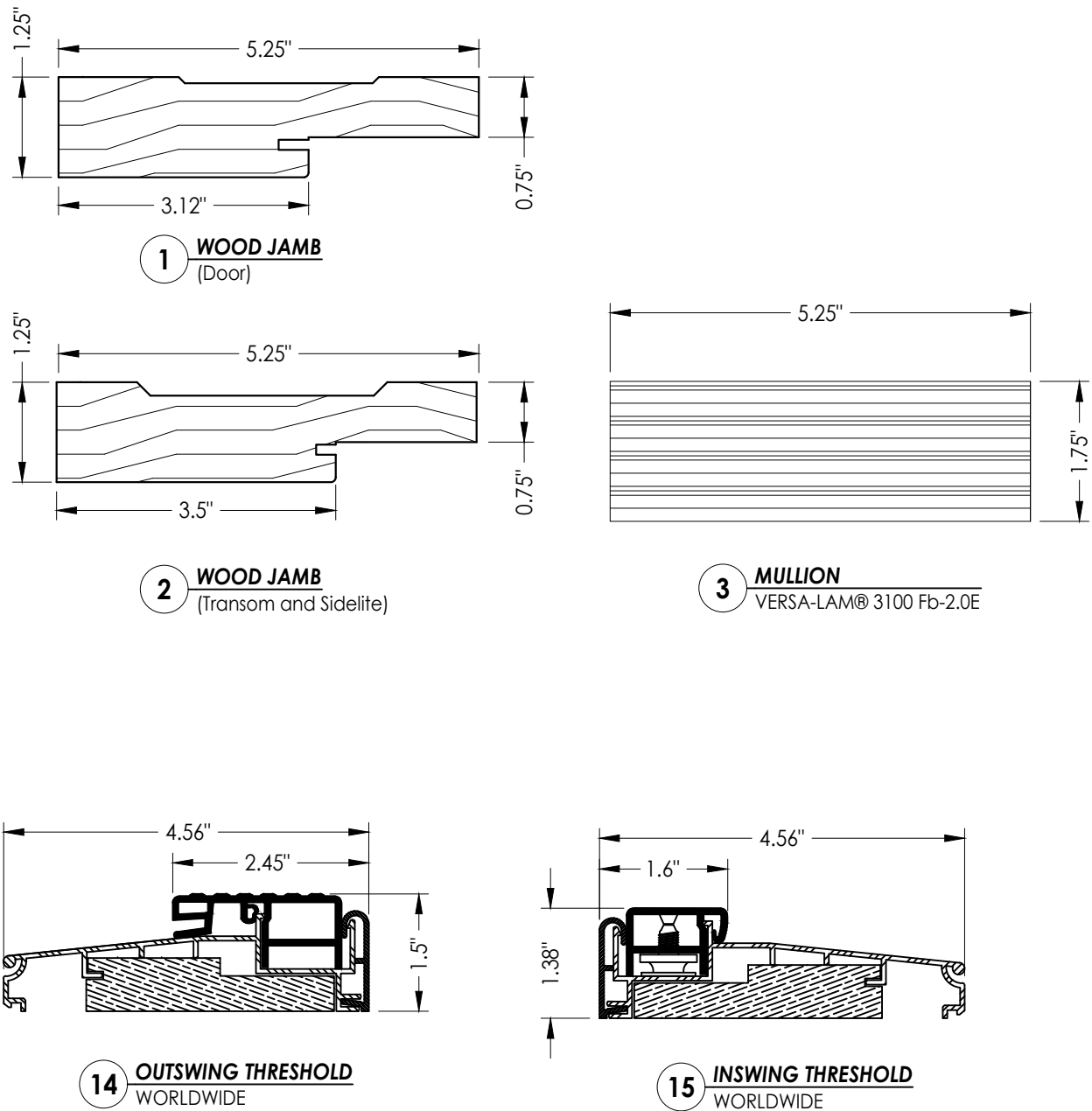
CONCRETE ANCHOR NOTES:

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.



Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		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: BILL OF MATERIALS & COMPONENTS	
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-22393.3			
SHEET 14 OF 14			