



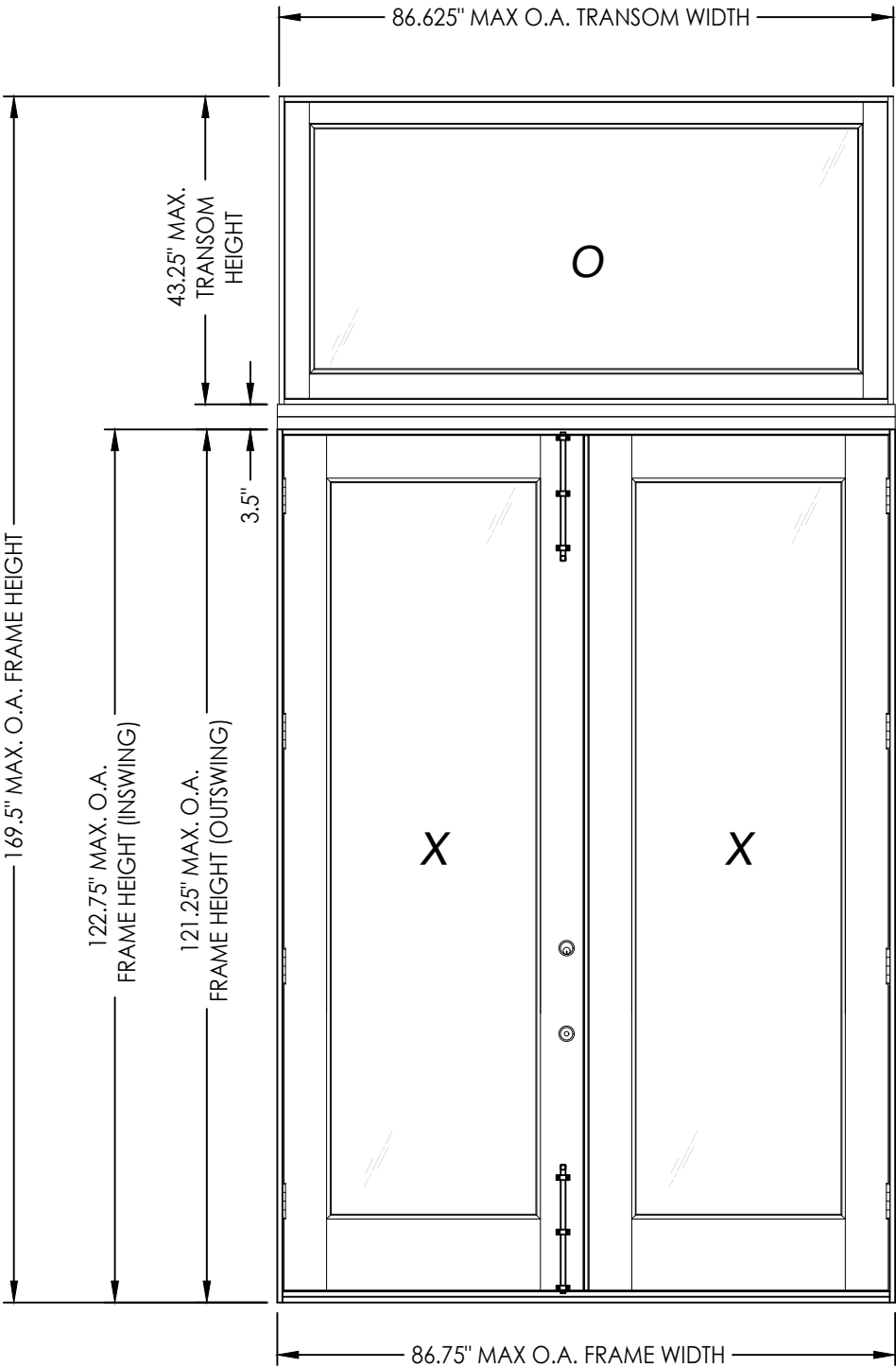
All Phase Custom Mill Shop
7471 Sawyer Circle
Port Charlotte, Florida 33981

"COASTAL IMPACT DOORS"
WOOD GLAZED OR OPAQUE
DOUBLE DOOR w/ TRANSOM
INSWING/OUTSWING
"IMPACT"

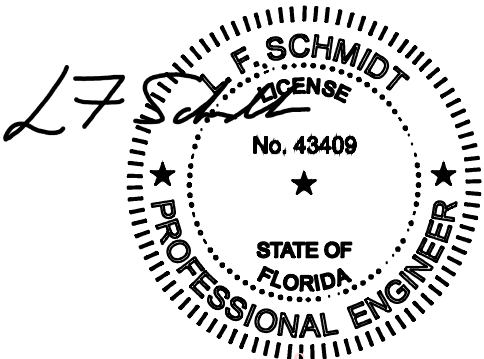
GENERAL NOTES:

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.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Transom Panel Details
4	Elevations
5	Glazing & Panel Infil Details
6	Horizontal & Vertical Cross Sections (2X Buck)
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	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
O XX	+60.0	-70.0	+60.0	-60.0



Digitally signed by Lyndon F Schmidt
Date: 2023.09.27 10:34:20 -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

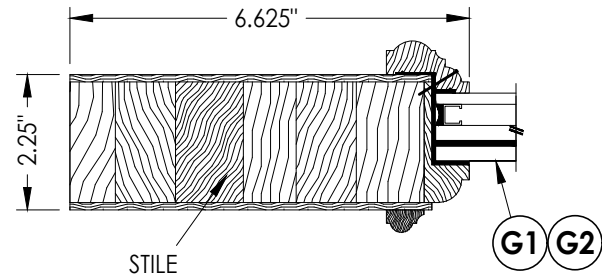
DRAWING NO.: FL-22393.11

SHEET 1 OF 12

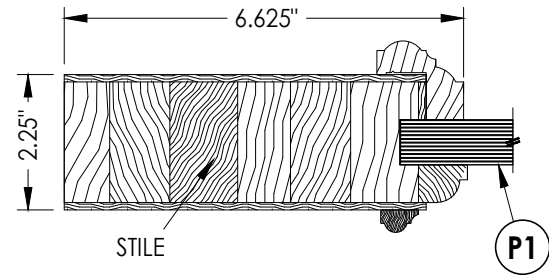
Building Consultants, Inc.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

© 2017 R.W. BUILDING CONSULTANTS INC.

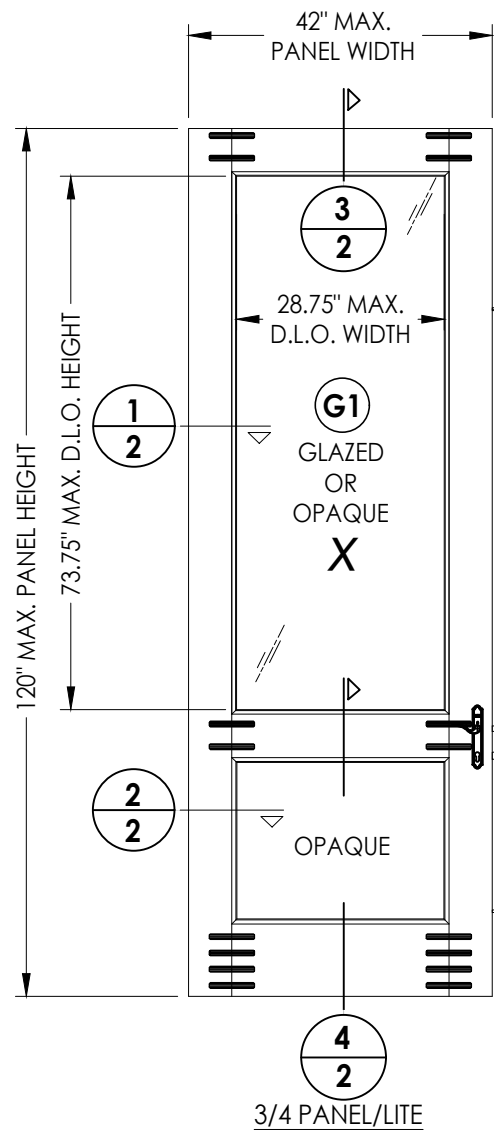
Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg



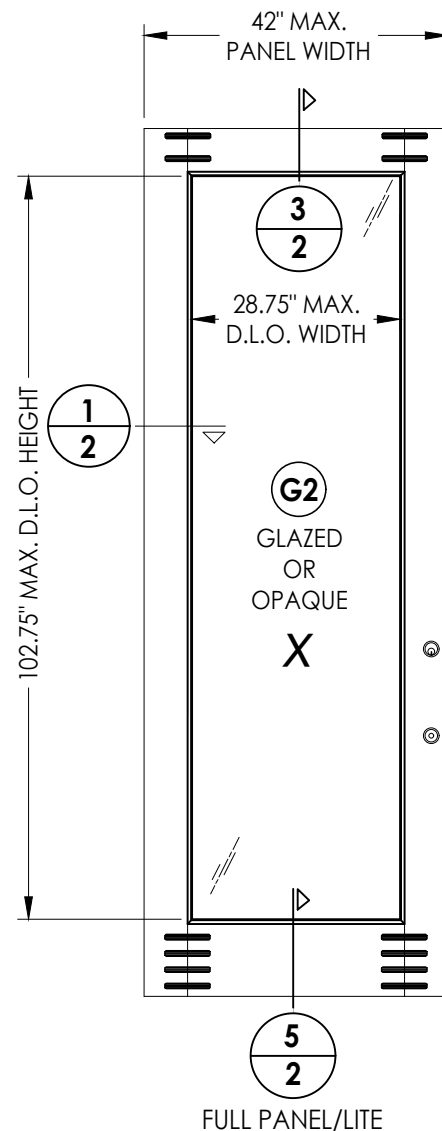
1
2 HORIZONTAL CROSS SECTION



2
2 HORIZONTAL CROSS SECTION



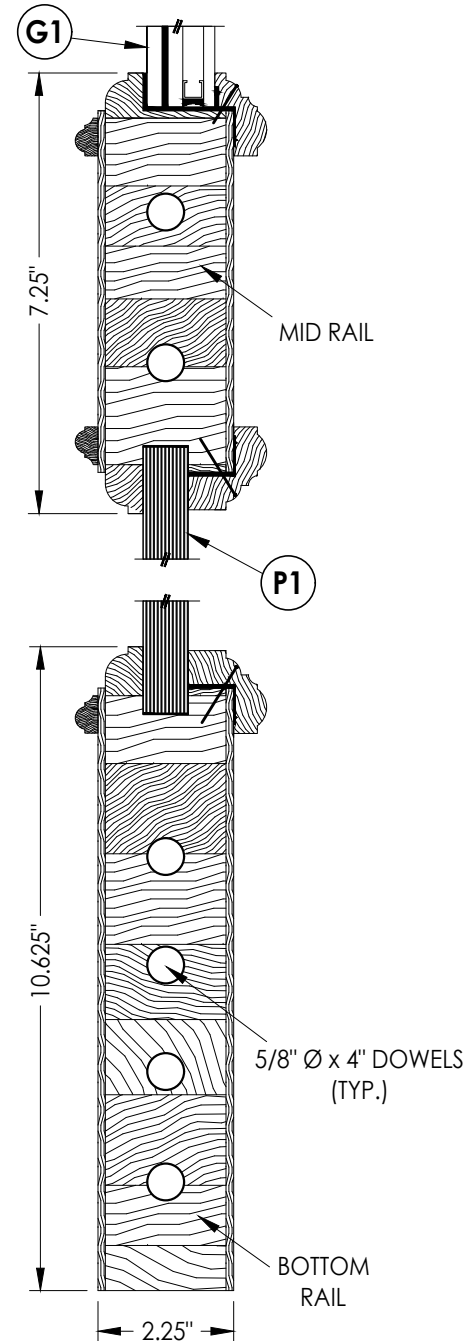
3/4 PANEL/LITE



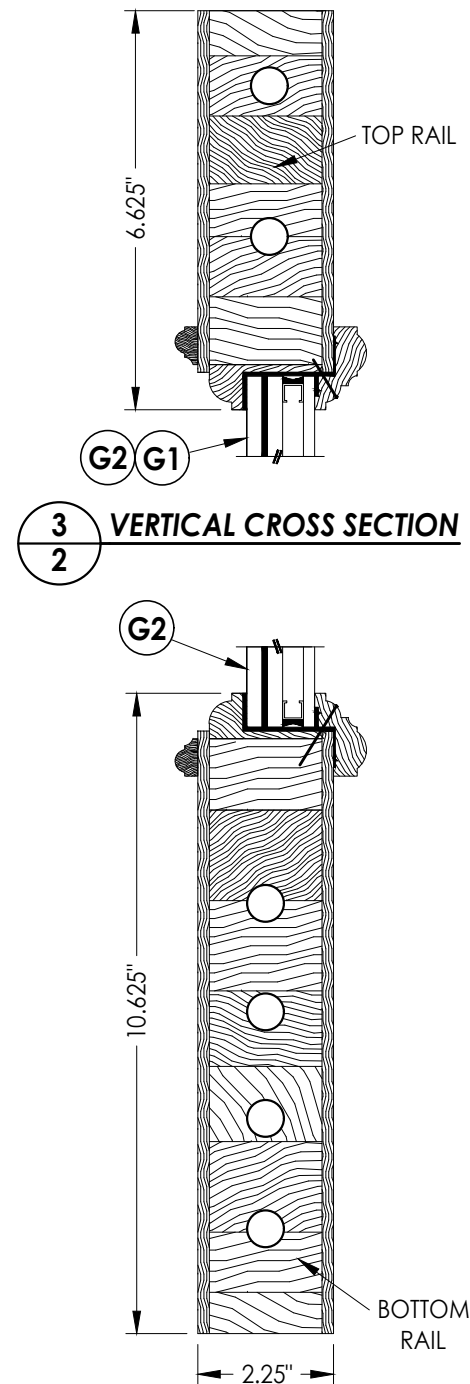
FULL PANEL/LITE

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



5
2 VERTICAL CROSS SECTION

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

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

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

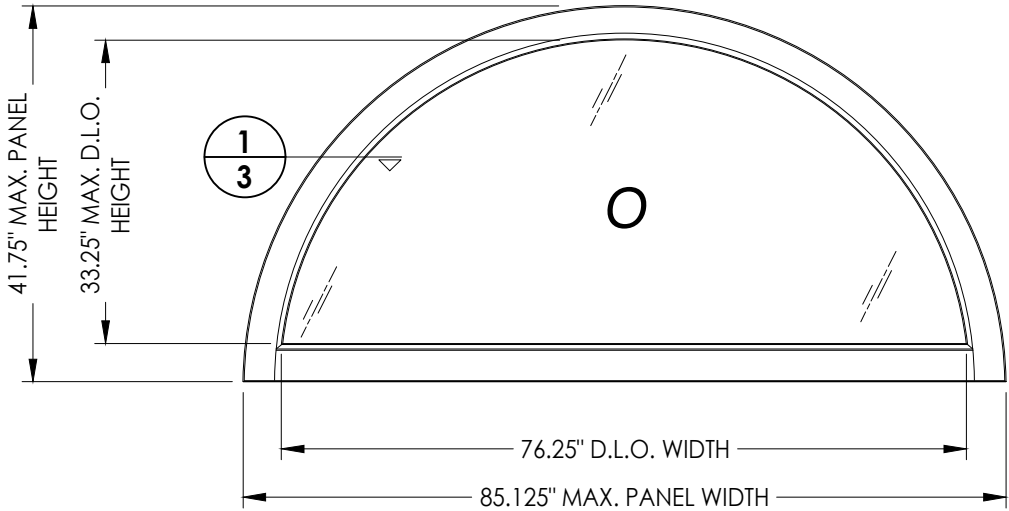
PART OR ASSEMBLY:
DOOR PANEL
DETAILS

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

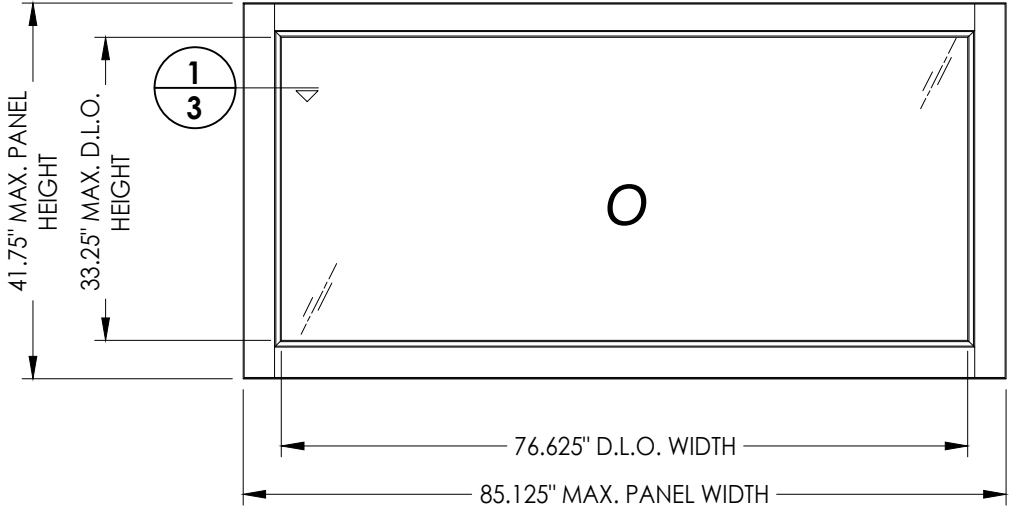
DATE:	6/5/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-22393.11
SHEET	2 OF 12

Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg

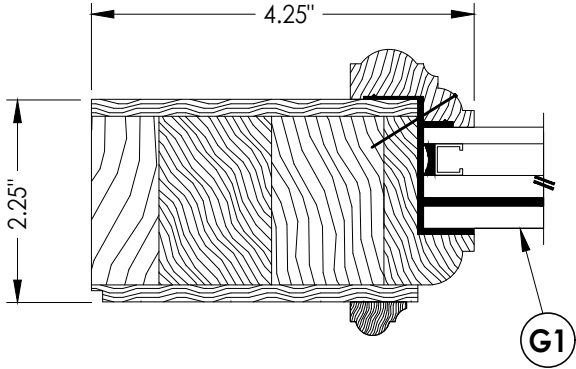
NOTE:
1. ALL FRAME CORNERS SECURED WITH (1) 1/4" X 6" LAG SCREW.



70 WOOD TRANSOM PANEL



70 WOOD TRANSOM PANEL



1/3 HORIZONTAL CROSS SECTION

DATE: 6/5/17	
SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.: FL-22393.11	
SHEET	3 OF 12

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

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

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

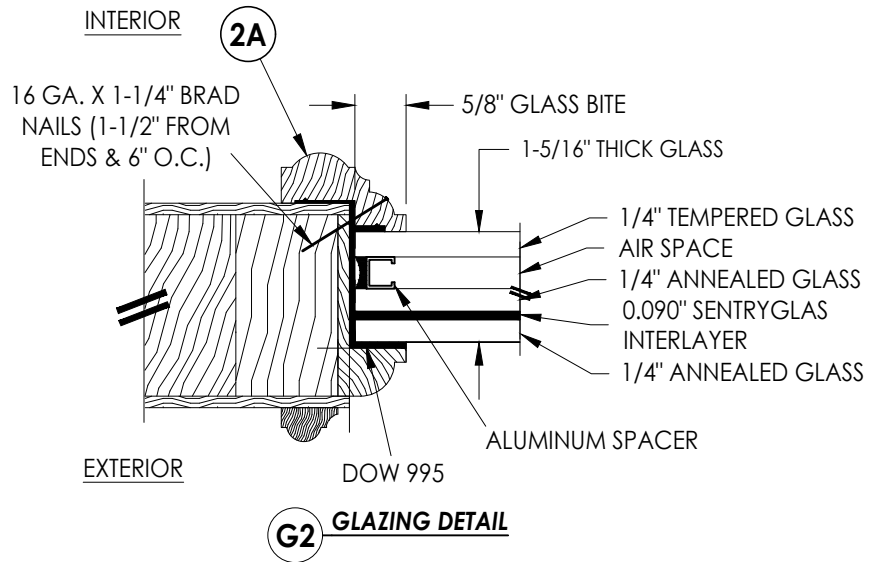
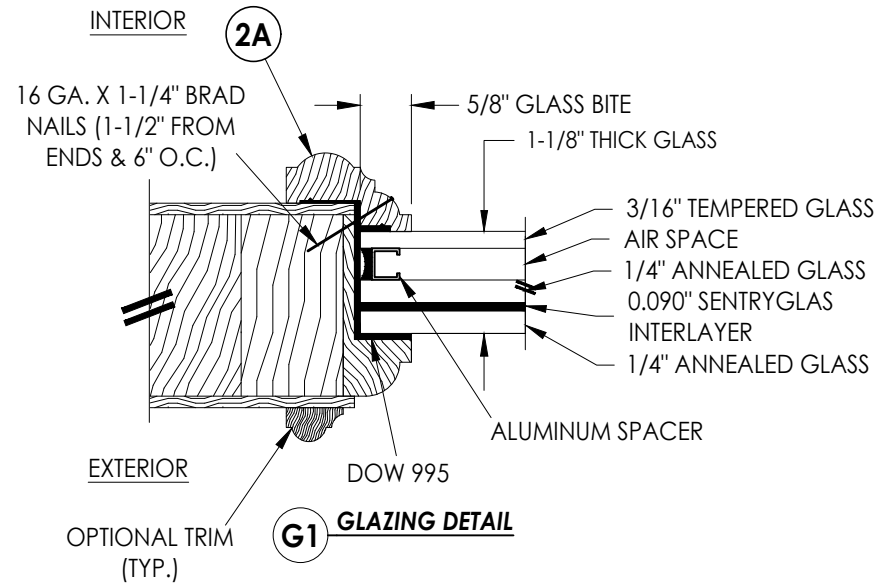


R^W BUILDING CONSULTANTS, INC.

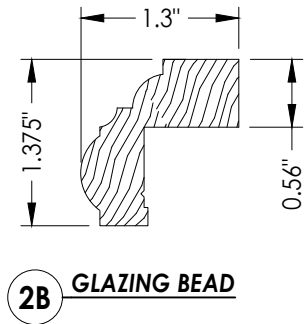
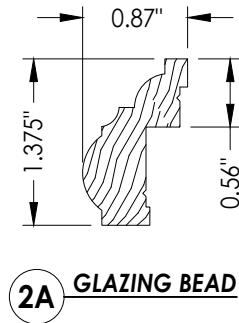
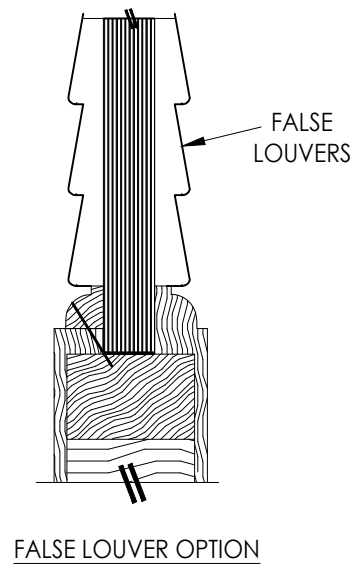
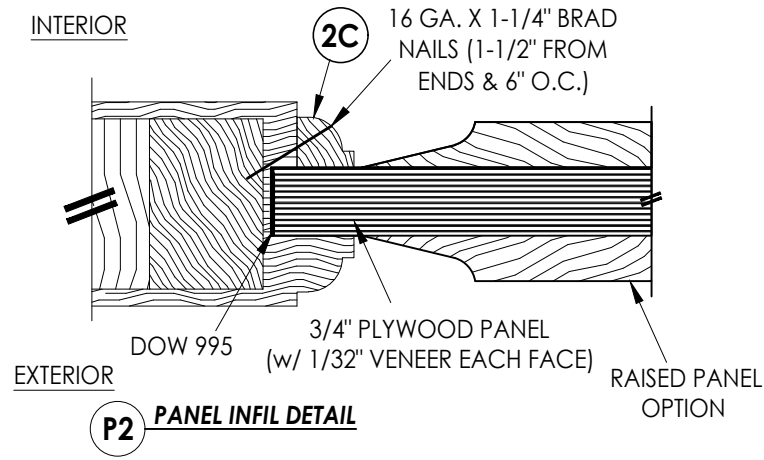
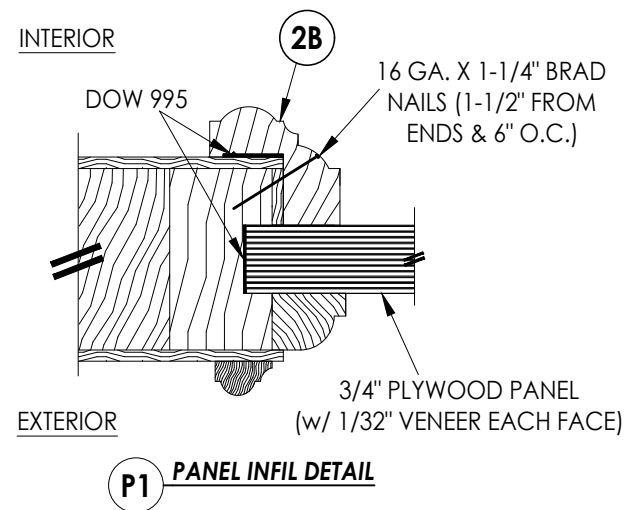
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813



NOTE: GLAZING > 36" WIDE REQUIRES TWO (2) SETTING
BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1

[illegible]

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

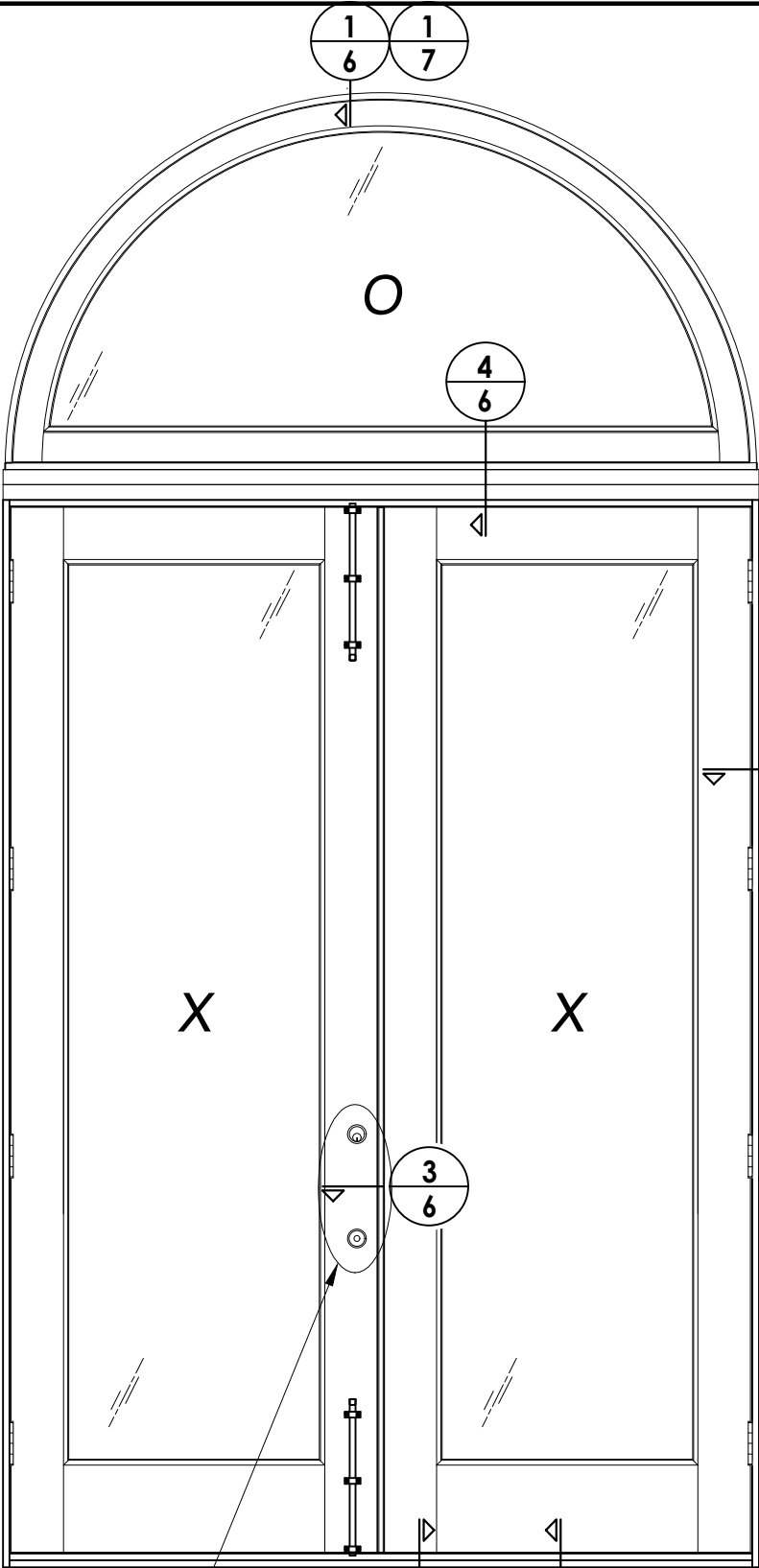
PRODUCT: ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

OR ASSEMBLY:
GLAZING & PANEL INFIL
DETAILS

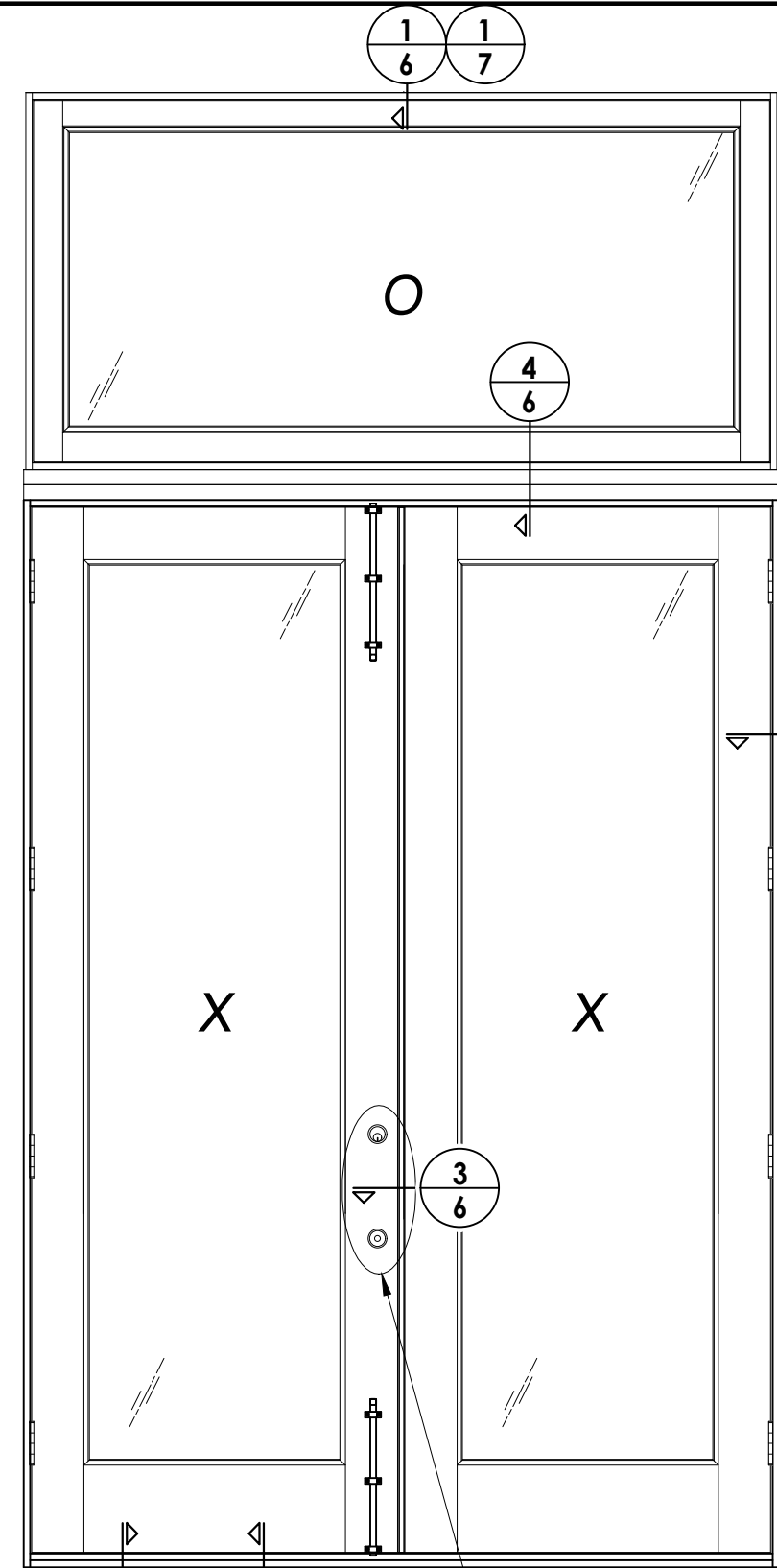
1

© 2017 R.W. BUILDING CONSULTANTS INC.

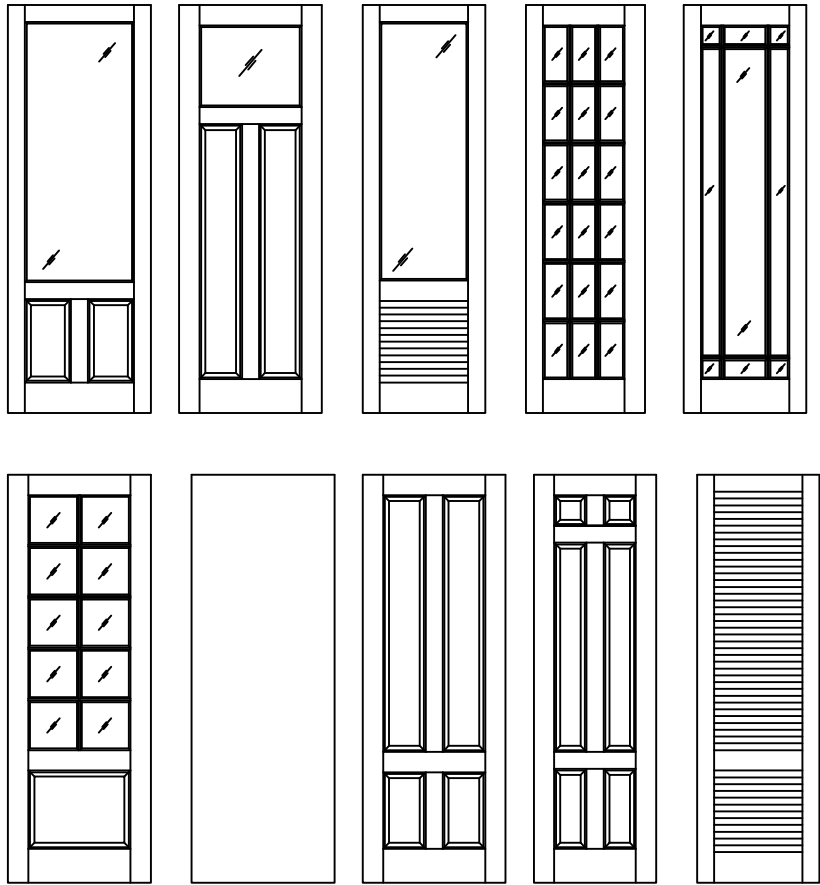
Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg



SEE HARDWARE
CHART



SEE HARDWARE
CHART



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.

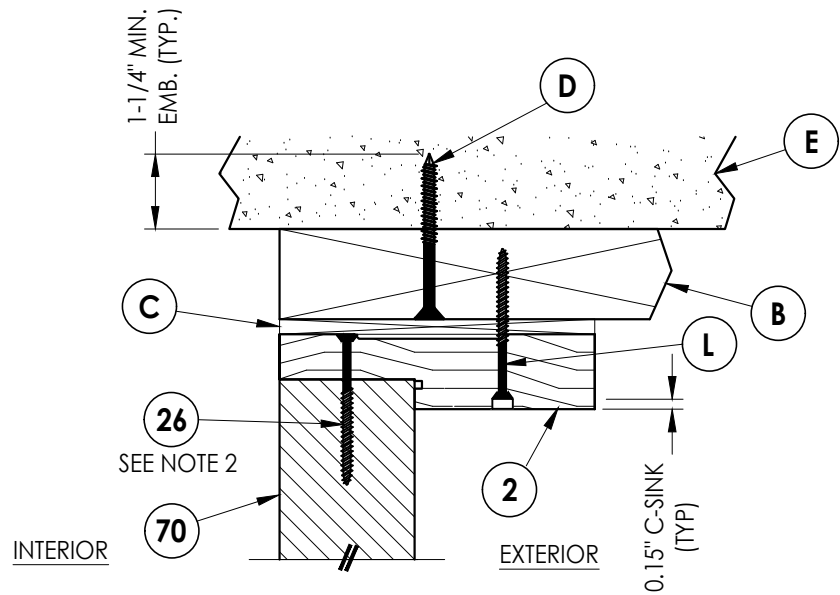
HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)

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-22393.11	
SHEET		5	OF 12

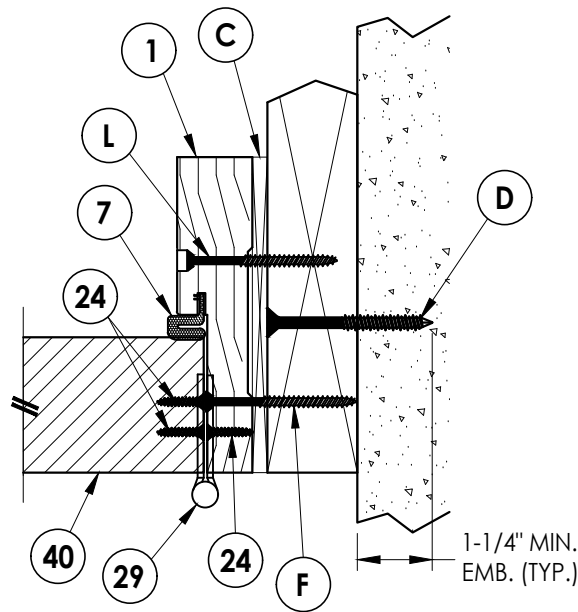
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

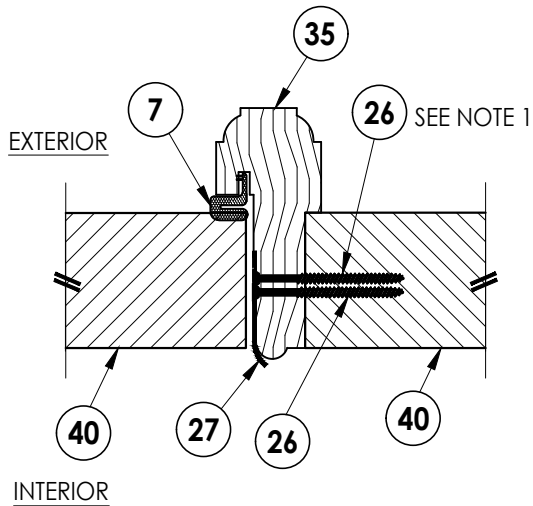
Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg



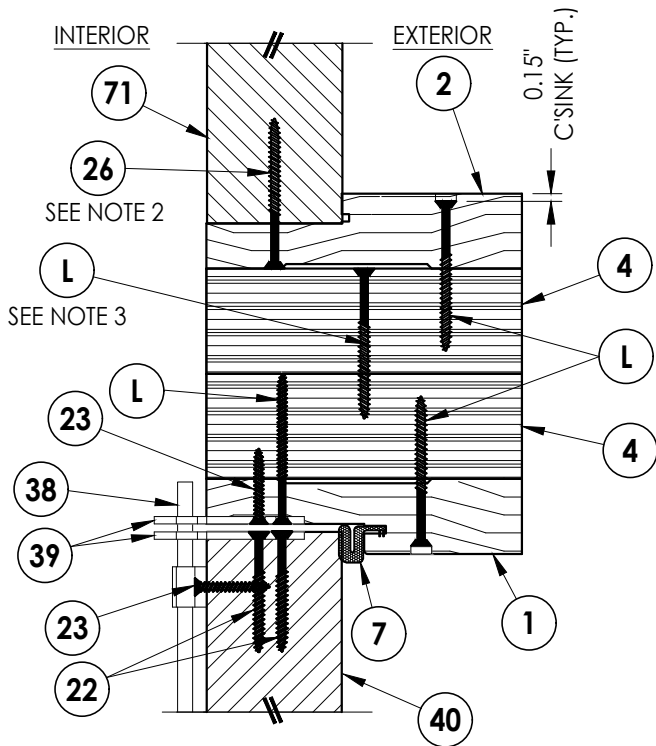
1
6 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



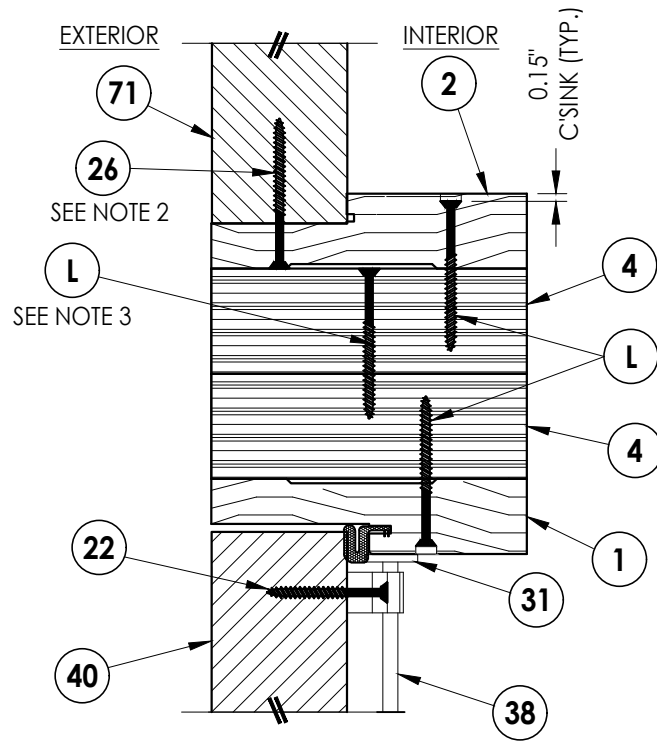
2
6 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown (Outswing similar)



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



5
6 **VERTICAL CROSS SECTION**
Inswing Shown



6
6 **VERTICAL CROSS SECTION**
Outswing Shown

NOTES:

- Item #26 located 4" from each end & 9 more equally spaced (11 total).
- Item #26 located 4" from each end & 1 at the center line (3 total).
- Item #L located 24" from each end & 1 more at the center line (3 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 (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

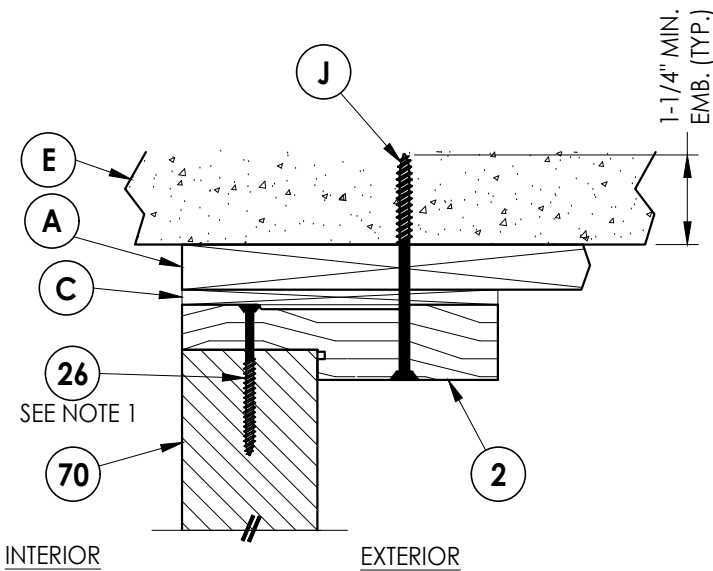
DRAWING NO.:

FL-22393.11

SHEET 6 OF 12

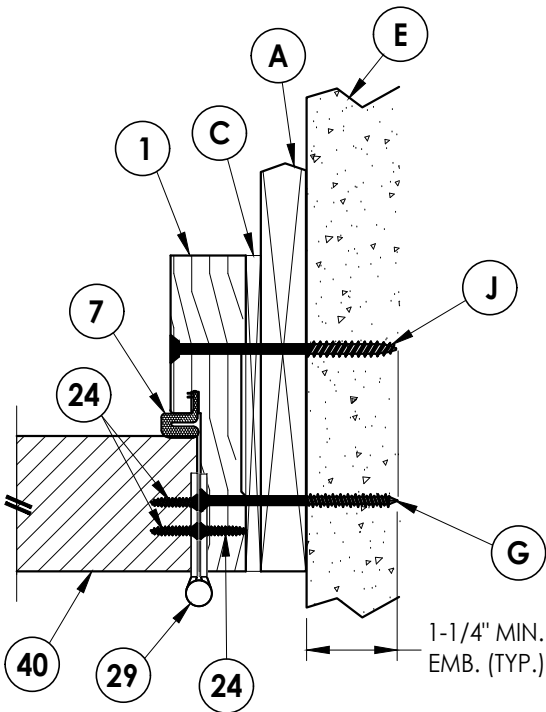
NOTES:

1. Item #26 located 4" from each end & 1 at the center line (3 total).



1 VERTICAL CROSS SECTION

7 Shown w/ 1X Buck
Inswing shown (Outswing similar)

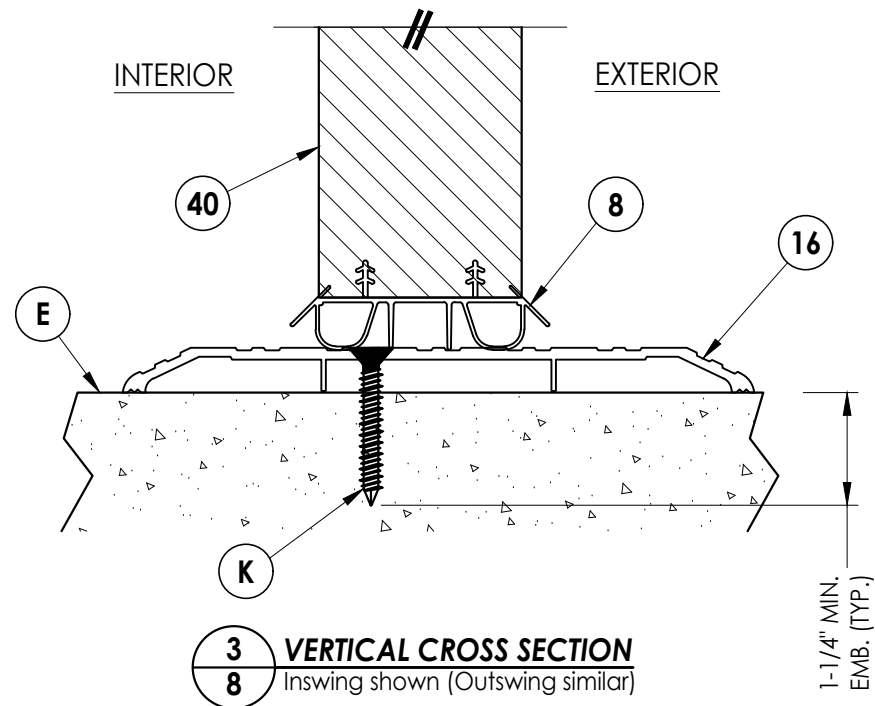
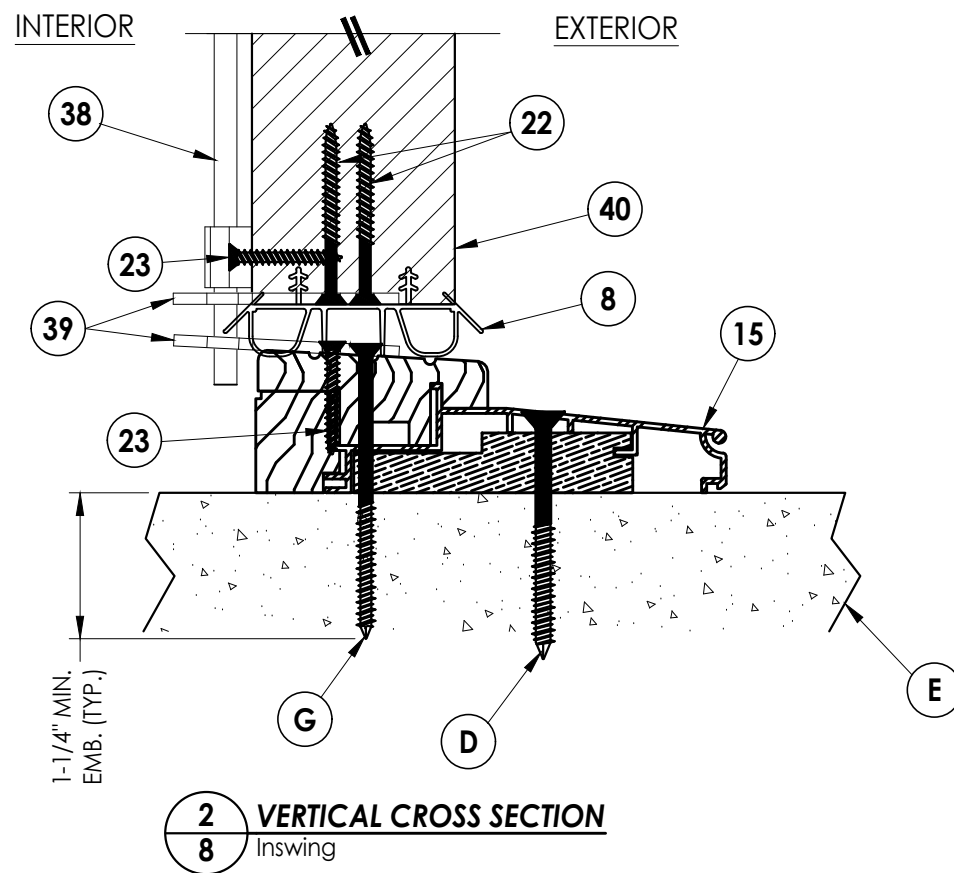


2 **HORIZONTAL CROSS SECTION**
7 Shown w/ 1X Buck
 Inswing shown (Outswing similar)

DATE: 6/5/17		PRODUCT: ALL PHASE CUSTOM MILL SHOP "Impact" Wood Doors
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: FL-22393.11		
SHEET 7 OF 12		
		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)
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		

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

[illegible]

DATE: 6/5/17

SCALE: *N.T.S.*

DWG. BY: JK

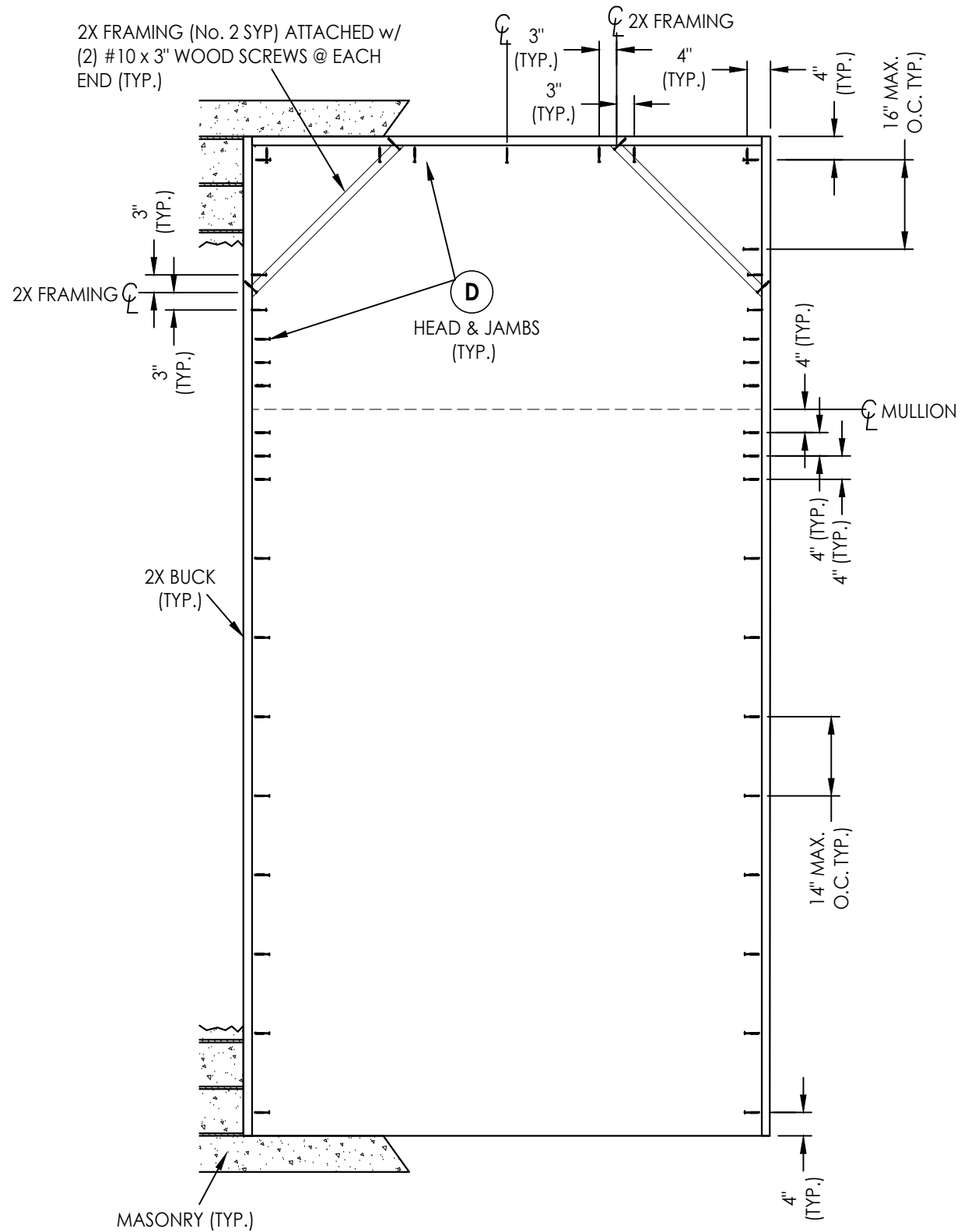
CHK. BY: *LFS*

DRAWING NO.:
FL-22393.11

SHEET 8 OF 12

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

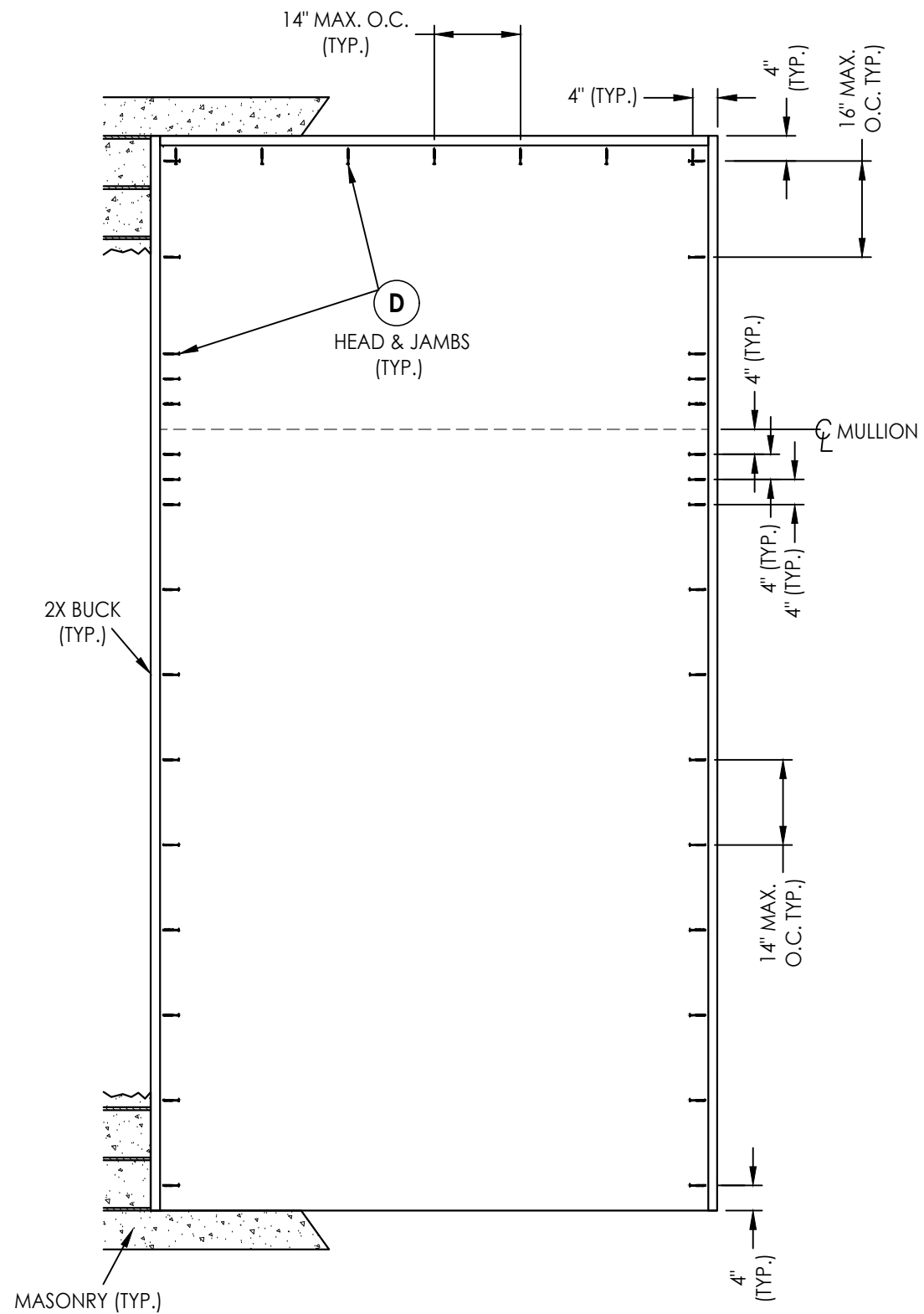
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



2X BUCK ANCHORING
O/XX (Arch Top Transom)

NOTE:

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



2X BUCK ANCHORING
O/XX

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				
		REVISIONS			

DATE: 6/5/17

SCALE: *N.T.S.*

DWG. BY: JK

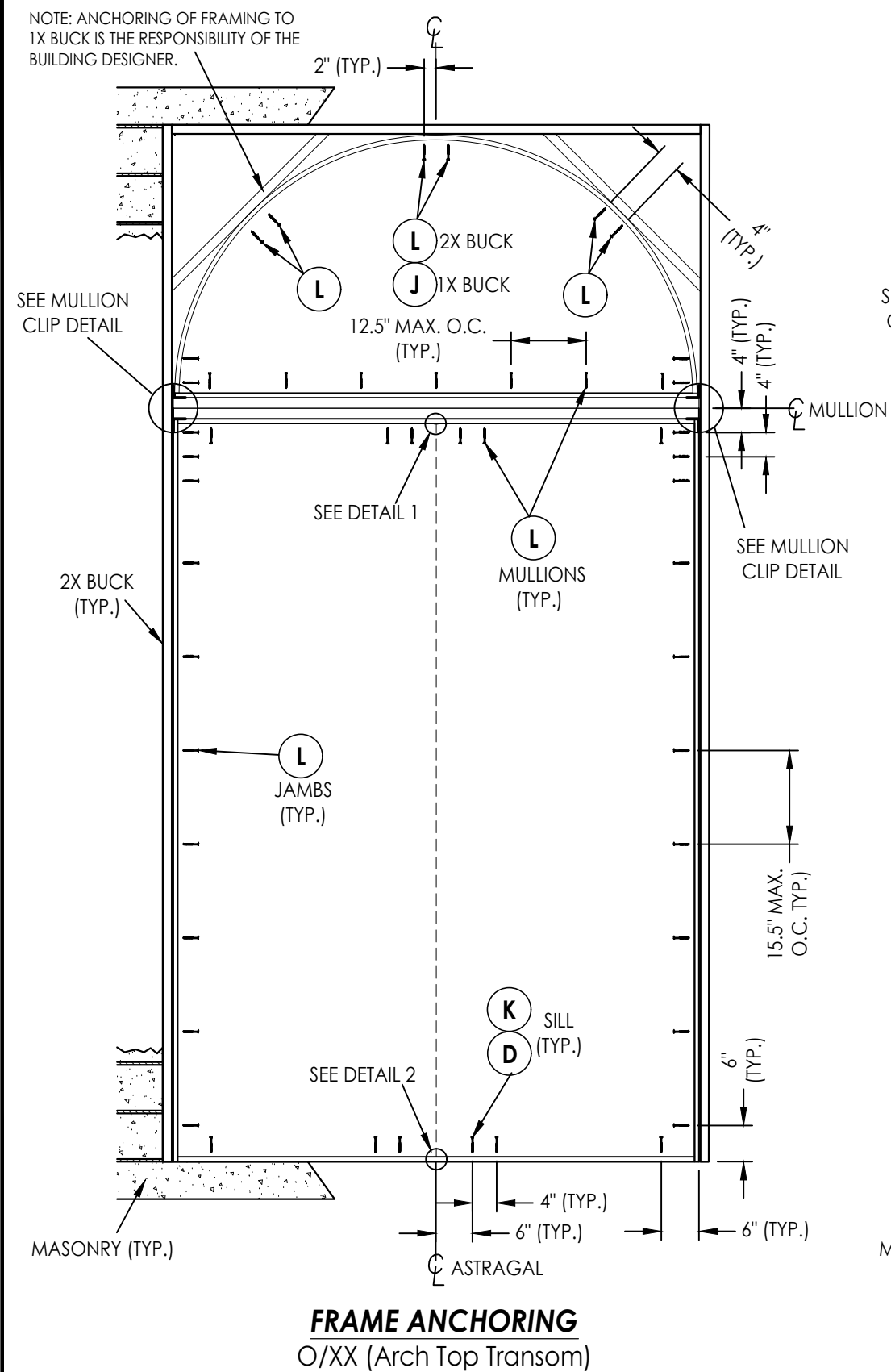
CHK. BY: LFS

DRAWING NO.:
FI-22.39.3.11

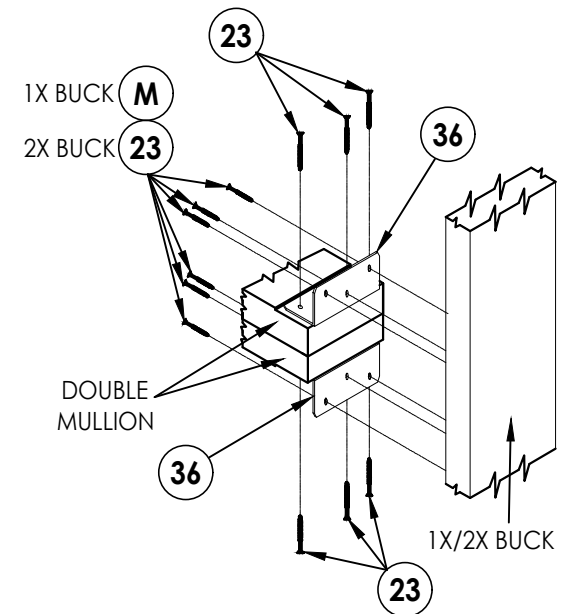
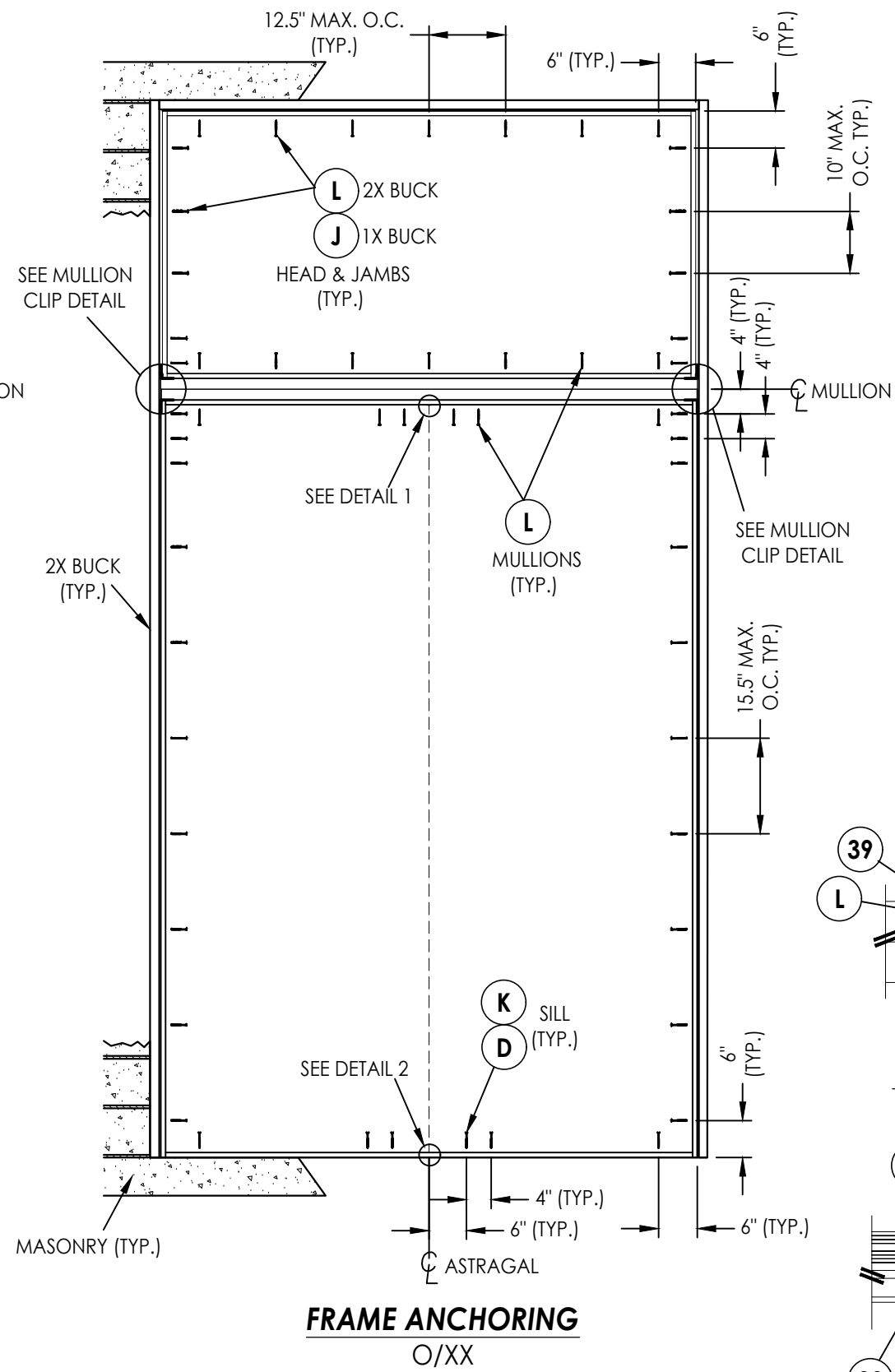
SHEET 9 OF 12

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

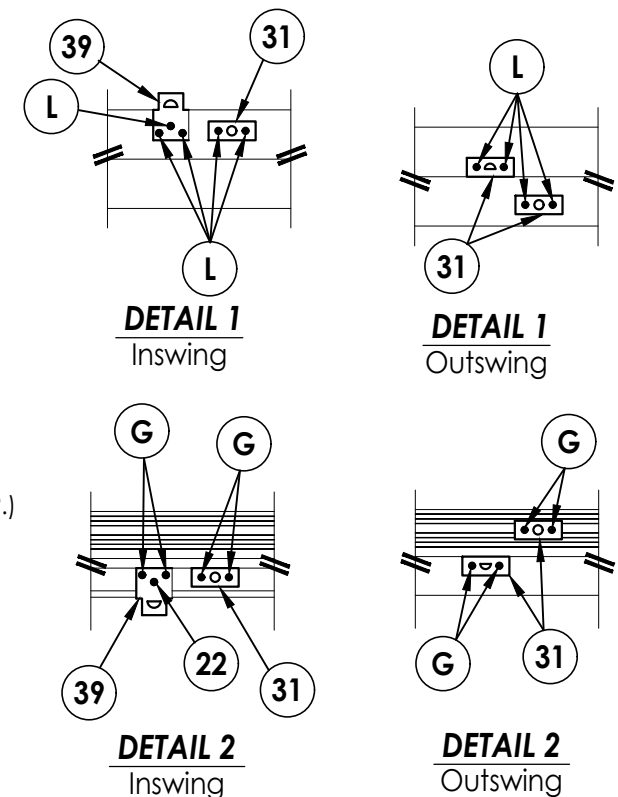
R^qW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



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

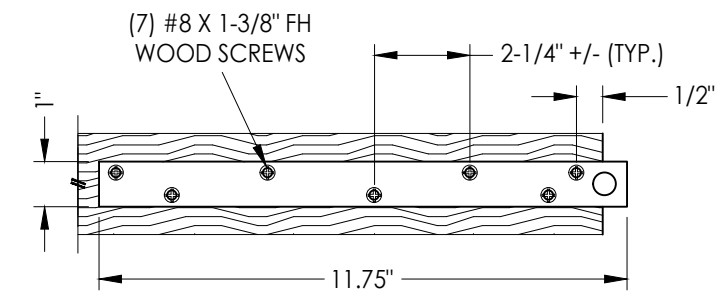


DOUBLE MULLION CLIP DETAIL

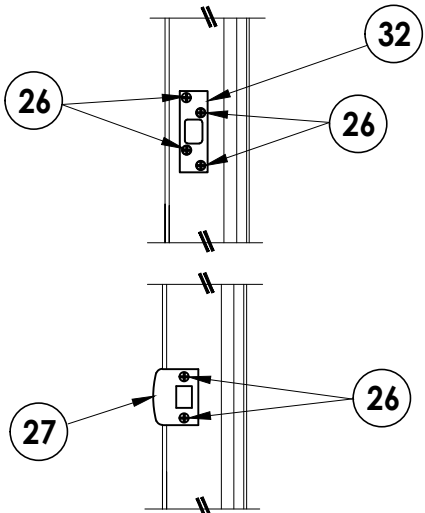


DATE:		6/5/17		R^W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
SCALE:		N.T.S.			
DWG. BY:		JK			
CHK. BY:		LFS			
DRAWING NO.:		FL-22393.11			
SHEET		10		OF 12	

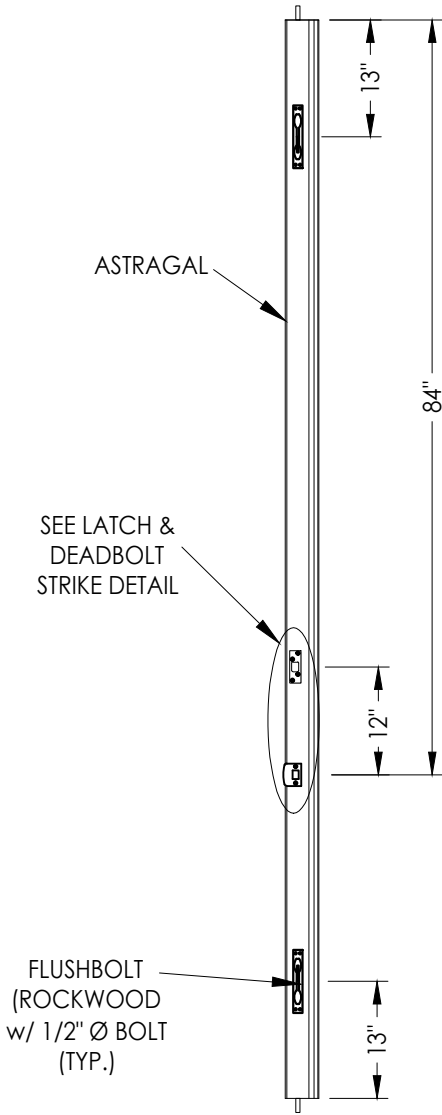
Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg



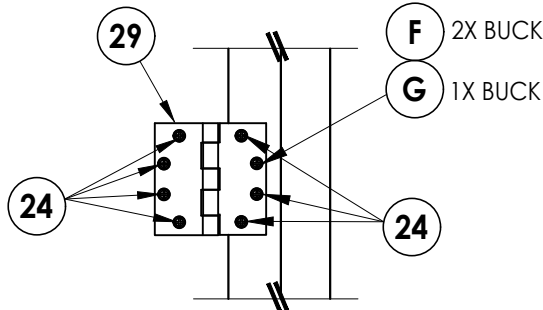
FLUSHBOLT REINFORCEMENT
AT TOP & BOTTOM OF DOOR PANEL
(3/16" THICK STEEL)



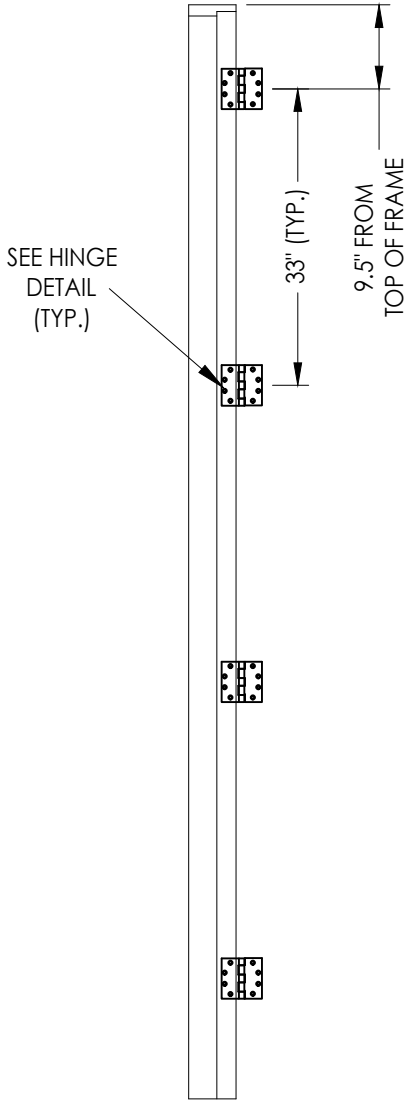
LATCH & DEADBOLT STRIKE DETAIL



LATCH & DEADBOLT DETAILS



HINGE DETAIL



HINGE JAMB

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:
ALL PHASE CUSTOM MILL SHOP
"Impact" Wood Doors

PART OR ASSEMBLY:
HARDWARE DETAILS

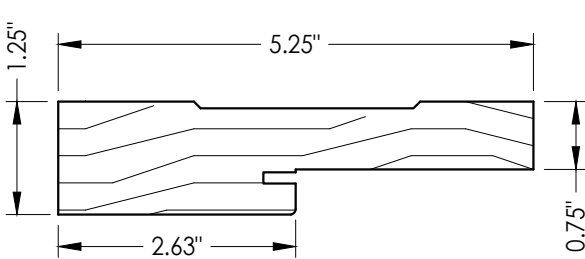
NO.	DATE	REVISIONS
3	9/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/02/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/12/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 6/5/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-22393.11
SHEET 11 OF 12

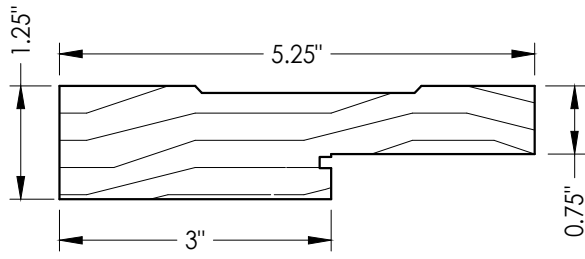
Z:\2023 FBC Drawings\All Phase Custom Mill Shop\FL-22393 R3\FL-22393.9-11.dwg

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
M	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
1	JAMB (DOOR)	WOOD
2	JAMB (SIDELITE)	WOOD
4	MULLION	LVL
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
14	OUTSWING THRESHOLD	ALUM/WOOD/COMP
15	INSWING THRESHOLD	ALUM/WOOD/COMP
22	#8 X 1-1/4" PFH WOOD SCREW	STEEL
23	#10 X 1-1/2" 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
31	SHOOTBOLT STRIKE PLATE	STEEL
32	DEADBOLT SECURITY STRIKE PLATE	STEEL
35	ASTRAGAL	WOOD
36	MULLION ANGLE CLIP (USP ML24-TZ)	STEEL
38	SURFACE BOLT (EMTEK 8513 - 18" LONG)	STEEL
39	SURFACE BOLT STRIKE PLATE (INSWING)	STEEL
40	DOOR PANEL	WOOD
41	DOOR PANEL	WOOD
50	SIDELITE PANEL	WOOD
51	SIDELITE PANEL (DIRECT SET)	WOOD
70	TRANSOM PANEL	WOOD

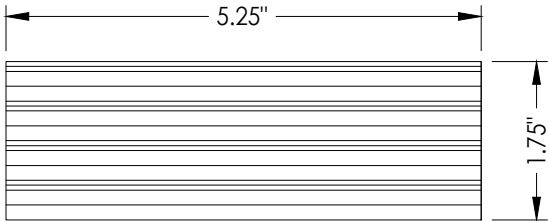
WOOD FRAME COMPONENTS: SIPO (UTILE) (G = 0.53)



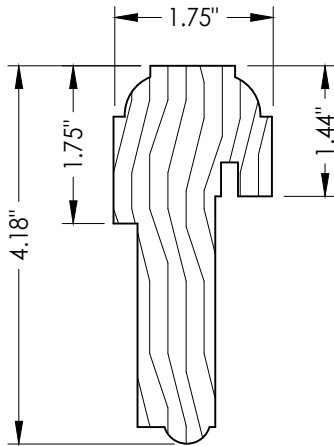
1 WOOD JAMB (DOOR)



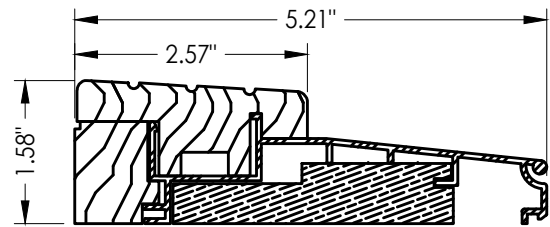
2 WOOD JAMB (SIDELITE)



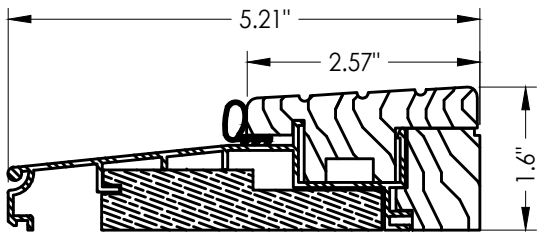
4 MULLION VERSA-LAM® 3100 Fb-2.0E



35 ASTRAGAL



15 INSWING THRESHOLD WORLDWIDE



14 OUTSWING THRESHOLD WORLDWIDE

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"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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:
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:
BILL OF MATERIALS
& COMPONENTS

NO	DATE	REVISIONS			
		DATE	BY	CHK	APP
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-22393.11

SHEET 12 OF 12