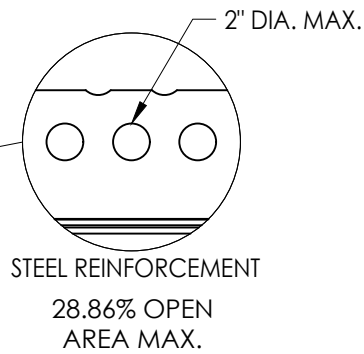


See Sheet 4 for Hardware Specifications

Diagram illustrating the cross-section of a composite beam. The total height is 1.71". The top flange width is 0.5". The bottom flange width is 0.7". The components are labeled: COMPOSITE CAP, HINGE STILE (ENGINEERED WOOD), and STEEL REINFORCEMENT (0.023" THK.).



The diagram illustrates the horizontal cross-section of the door assembly, showing the hinge stile on the left and the lock stile on the right. Key dimensions and components are labeled:

- Dimensions:**
 - 0.406" (width of hinge stile cap)
 - 0.7" (width of hinge stile)
 - 1.71" (height of hinge stile)
 - 3.6" (width of lock stile)
 - 0.406" (width of lock stile cap)
- Components:**
 - COMPOSITE CAP** (hinge stile)
 - HINGE STILE (ENGINEERED WOOD)**
 - STEEL REINFORCEMENT (0.023" THK.)**
 - LOCK STILE (ENGINEERED WOOD)**
 - COMPOSITE CAP** (lock stile)
- Labels:**
 - G1 EXTERIOR** (pointing to the hinge stile)
 - INTERIOR** (pointing to the lock stile)

Diagram illustrating the dimensions and components of a door panel:

- 36.0" MAX. DOOR PANEL WIDTH**: Dimension across the top of the panel.
- 79.25" MAX. DOOR PANEL HEIGHT**: Dimension along the left side of the panel.
- 1** and **2** (circled): Labels indicating the upper and lower sections of the panel.
- 3** and **2** (circled): Labels indicating the upper and lower sections of the panel, specifically pointing to the top edge.
- X**: A large letter 'X' marking the center of the panel.
- * * ***: Symbols indicating specific points or features along the edges.
- ⊕** and **⊙**: Symbols indicating specific points or features along the right edge.

Diagram illustrating the dimensions and components of a door panel:

- 35.813" MAX. DOOR PANEL WIDTH**: Dimension across the top of the panel.
- 79.25" MAX. DOOR PANEL HEIGHT**: Dimension along the left side of the panel.
- Callout 3/2**: Located at the top center of the panel.
- Callout 2/2**: Located on the left side of the panel.
- Callout X**: Located in the center of the panel.
- Callout ***: Located at the top-left, top-right, bottom-left, and bottom-right corners of the panel.
- Callout ***: Located on the right side of the panel, near the bottom.

Technical drawing of a door panel. The overall dimensions are 35.813" MAX. DOOR PANEL WIDTH and 79.06" MAX. DOOR PANEL HEIGHT. The drawing includes a central rectangular panel with a large 'X' inside. Callouts include a circle with '4' over '2' pointing to the top edge, a circle with '2' over '2' pointing to the left edge, and a circle with '2' over '2' pointing to the right edge. A dimension of 5.5" is shown on the right side. The drawing also includes a small 'X' symbol and a small circle with a dot inside.

The diagrams illustrate the cross-section of a composite railing system. The top two diagrams show the railing profile (G1 and G2) with a top rail, foam core, and bottom rail. The bottom two diagrams show the railing profile (G1 and G2) with a steel reinforcement, fiberglass skin, and bottom rail. The dimensions are as follows:

- Top Rail (Composite/Engineered Wood): 0.89" thick
- Foam Core (Polyurethane - 1.9 PCF MIN.): 0.89" thick
- Steel Reinforcement (0.023" THK.): 0.82" thick
- Fiberglass Skin (0.073" THK.): 0.82" thick
- Bottom Rail (Comp.): 1.71" wide

4 **VERTICAL CROSS SECTION**
2

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FBPE Registry No. 9813

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1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC JK
			BY

DATE: 08/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

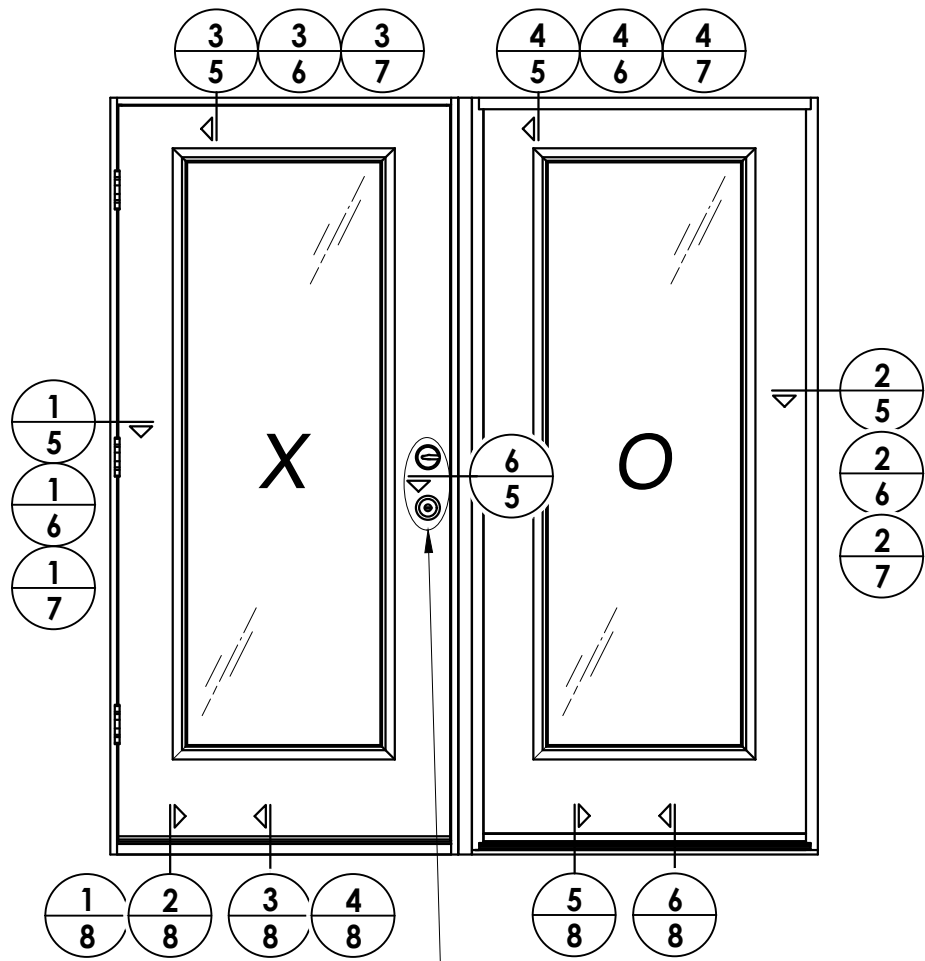
DRAWING NO.:

FL-20470.8

SHEET 2 OF 14

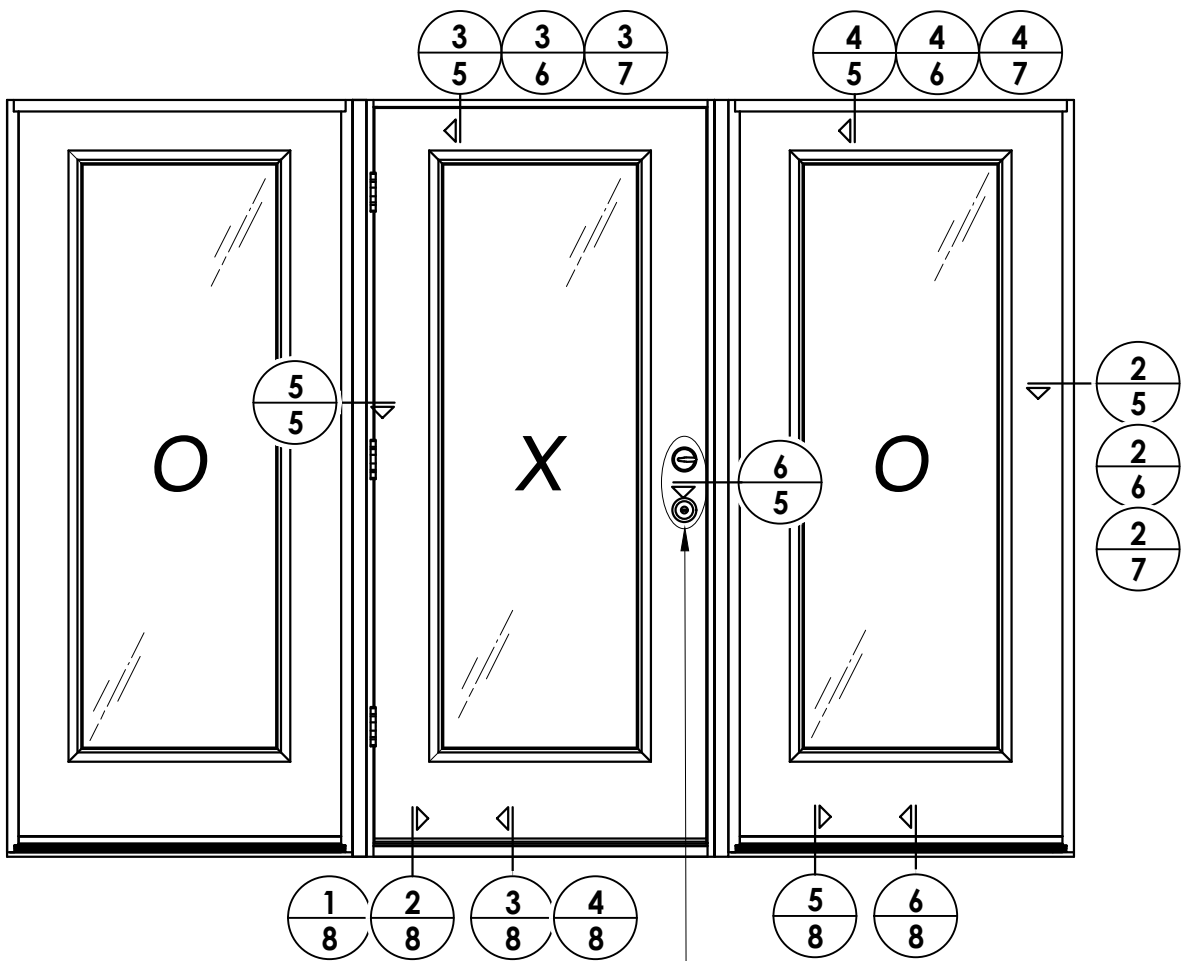
© 2016 R.W. BUILDING CONSULTANTS INC.

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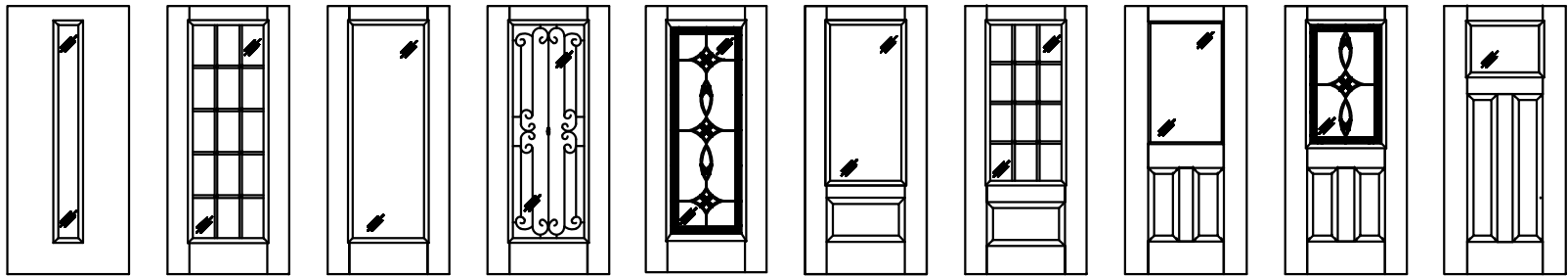
SEE HARDWARE CHART

ELEVATION
XO



SEE HARDWARE CHART

ELEVATION
OXO



Fiber-Classic/Smooth-Star Door Panel Options

Panel options shown are for illustration and are representative only
(similar glazed panel configurations are allowed)

HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART	
	(3 pt. Manual Tongue)	

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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

		REVISIONS			
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	2	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS
	1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK

DATE: 08/02/16

SCALE: N.T.S.

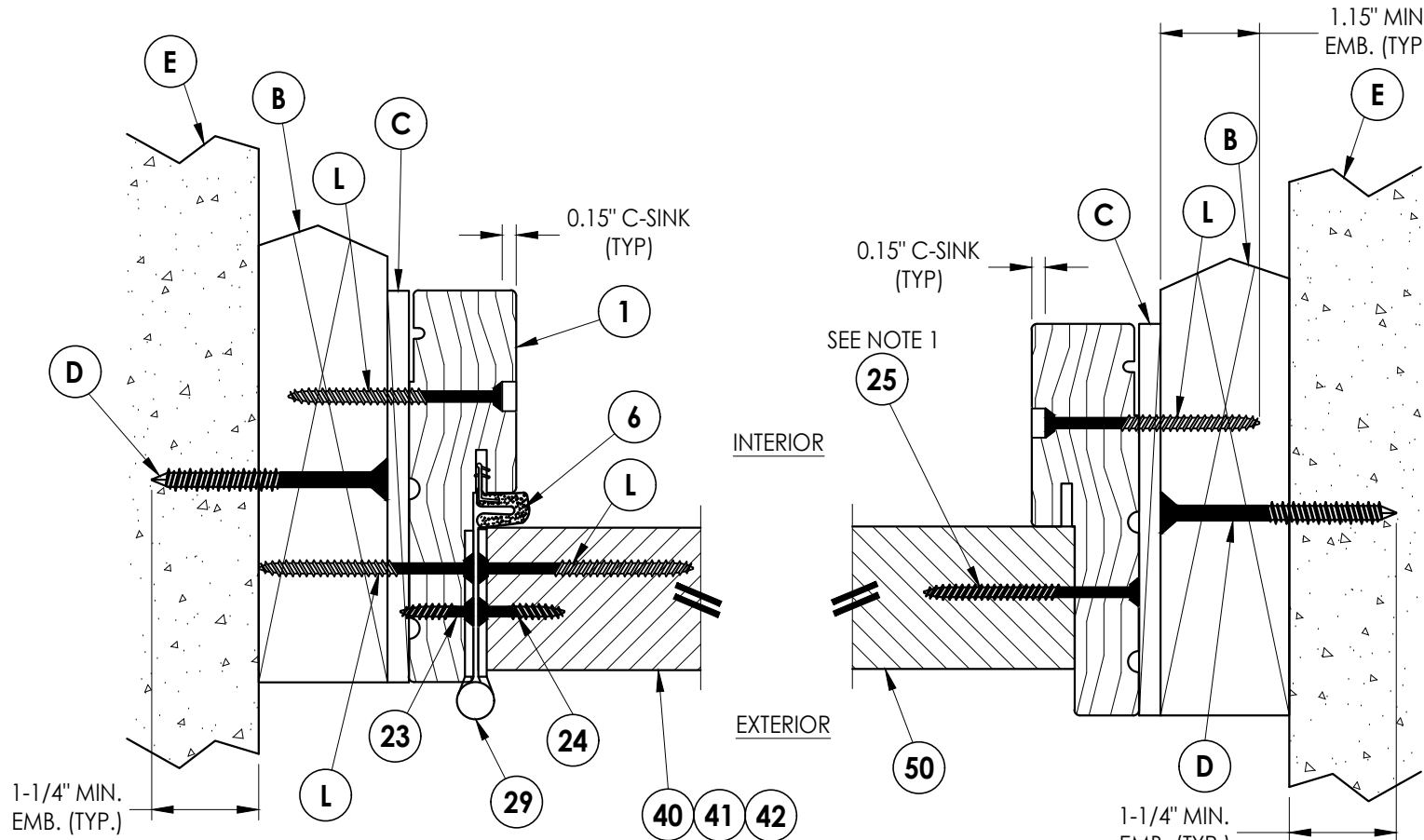
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CHK. BY: LFS

DRAWING NO.:
FL-20470.8

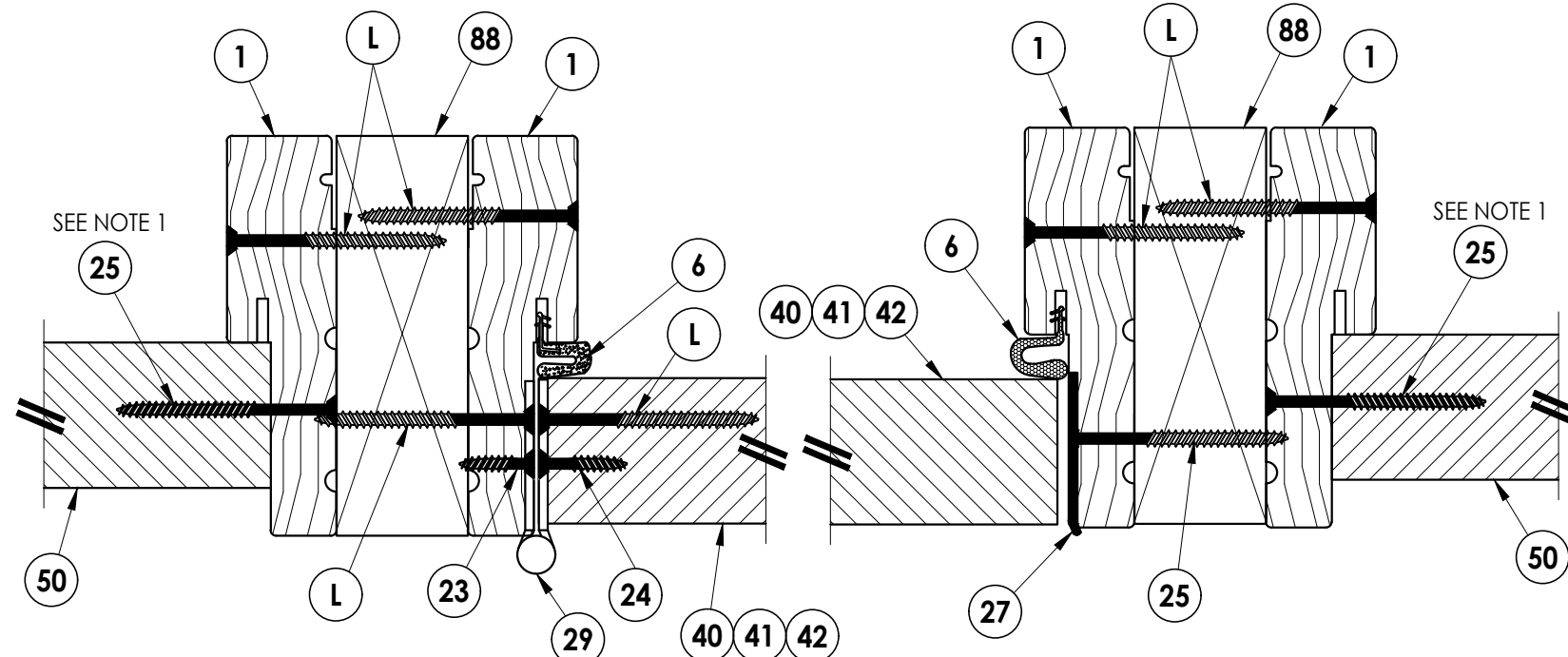
SHEET 4 OF 14

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

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

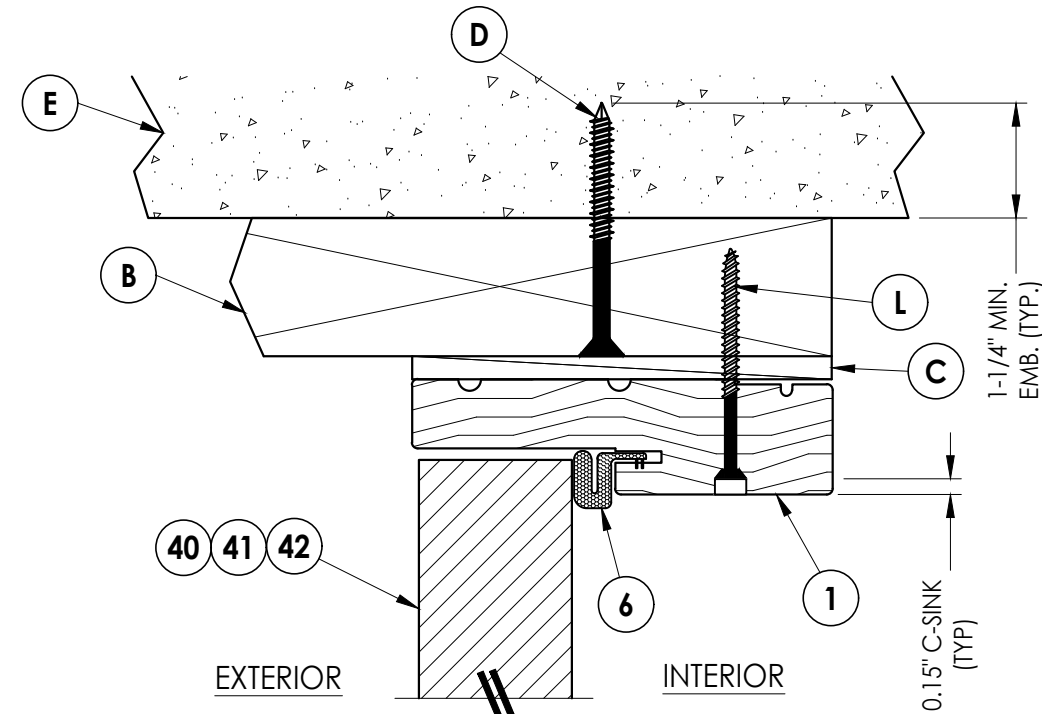


5
5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)

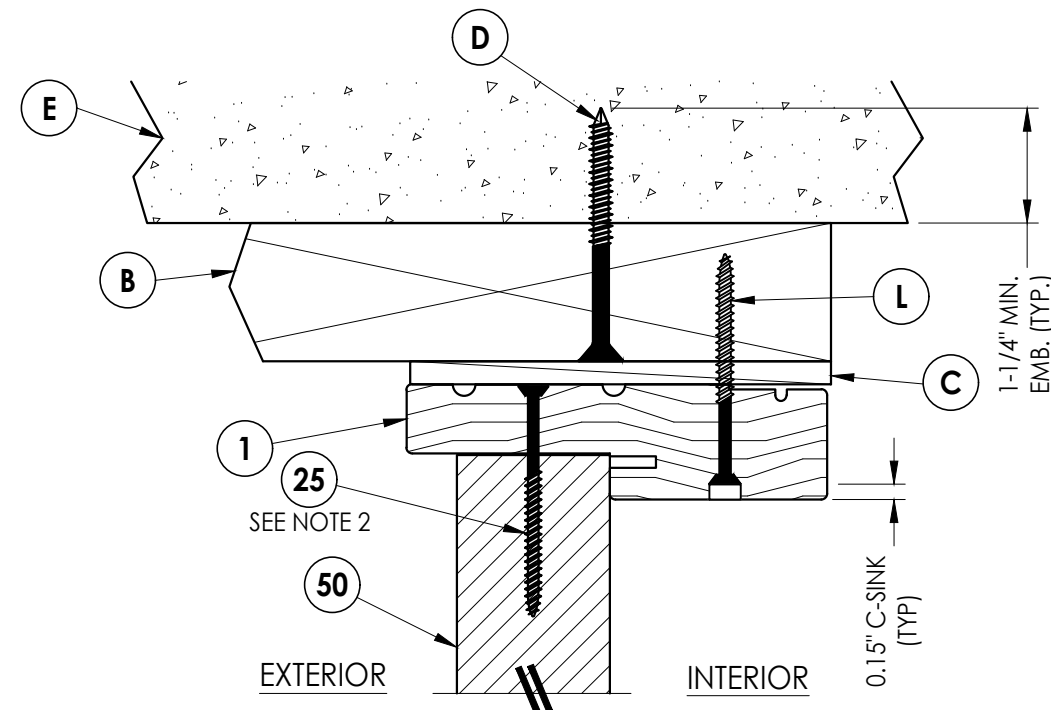
6
5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)

Notes:

1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



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



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

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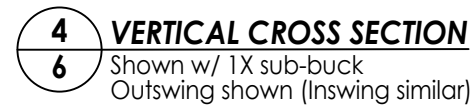
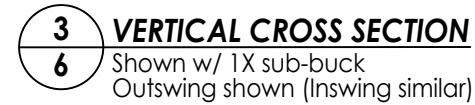
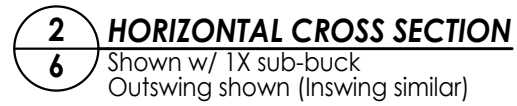
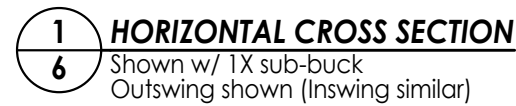
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/22/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE:	08/02/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20470.8
SHEET	5 OF 14

1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).

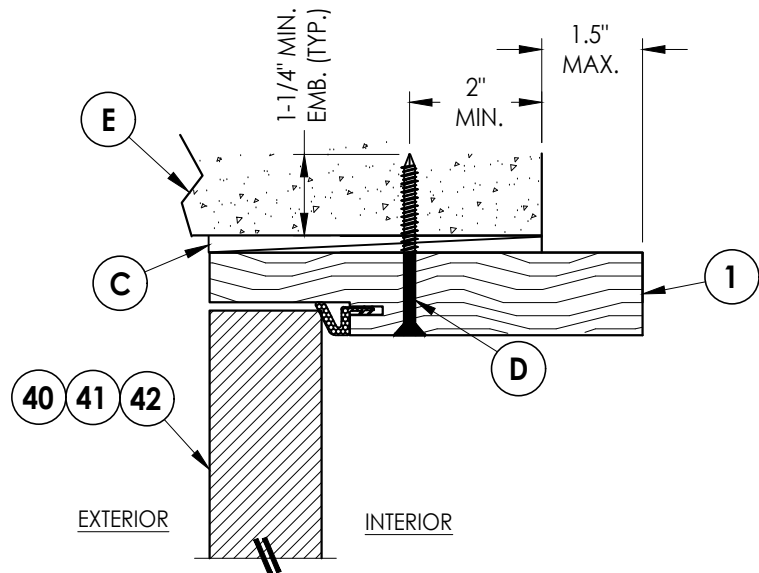


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			3	7/25/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS	
			2	7/22/20	UPDATE TO 7th ED	(2020)	FBC	LFS	
			1	7/14/17	UPDATE TO 6TH ED.	(2017)	FBC	JK	
			NO.	DATE				BY	
									REVISIONS
DATE: 08/02/16									
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-20470.8									
SHEET 6 OF 14									

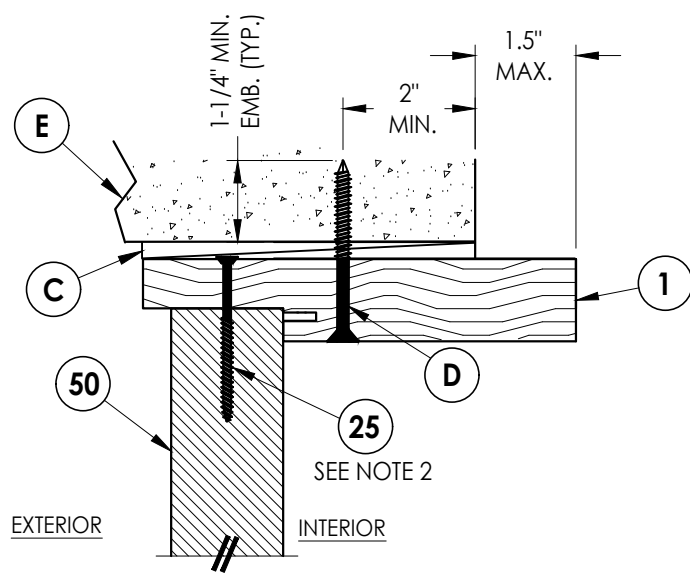
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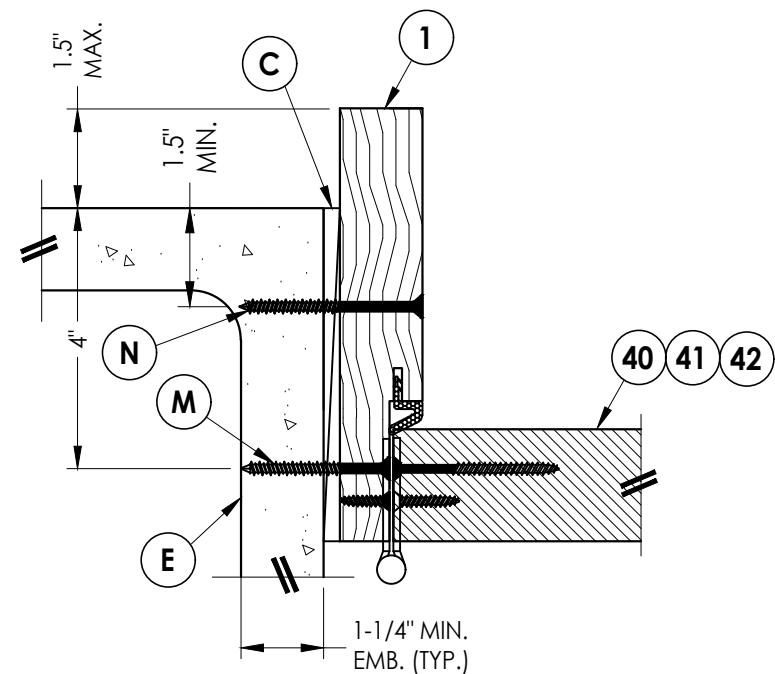
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7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



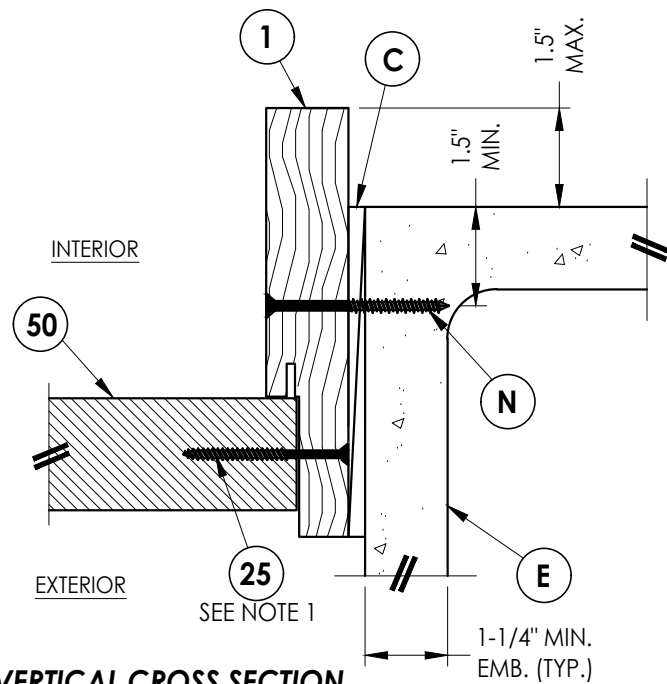
4
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Notes:

1. Sidelite assembly screws located 6" from each end plus 5 more equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



1
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



2
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS	BY
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC	LFS
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	7/22/20	UPDATE TO 7th ED (2020) FBC	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 8/02/16

SCALE: N.T.S.

DWG. BY: JK

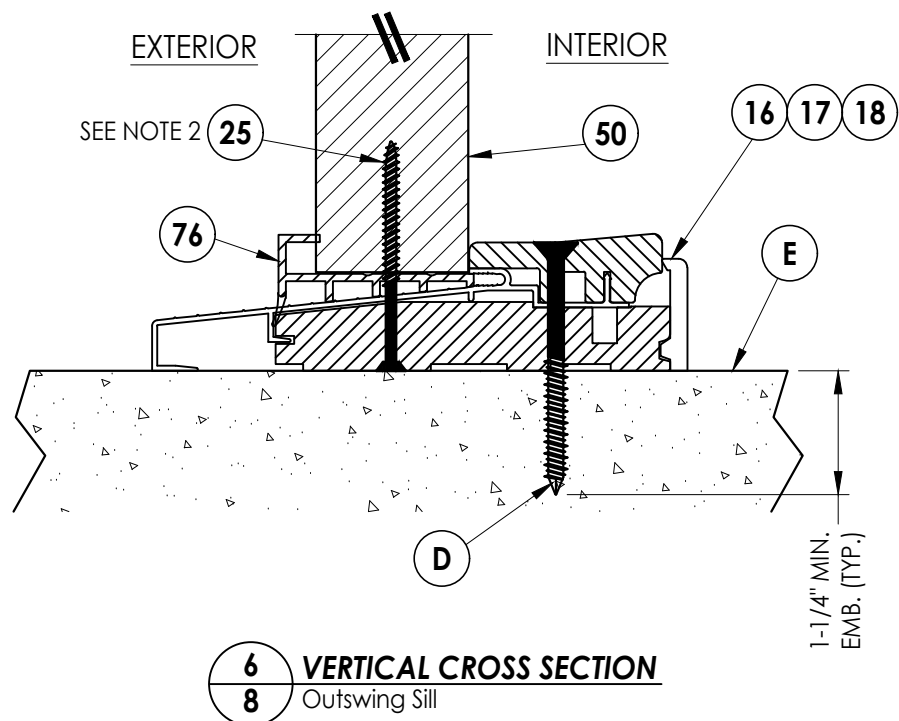
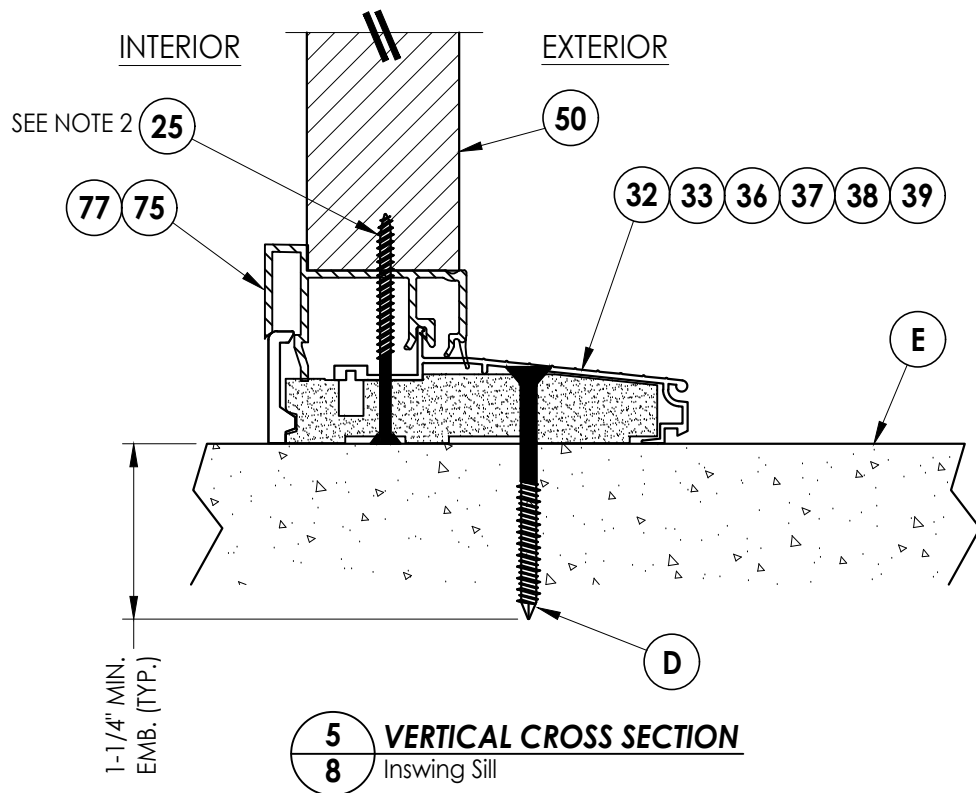
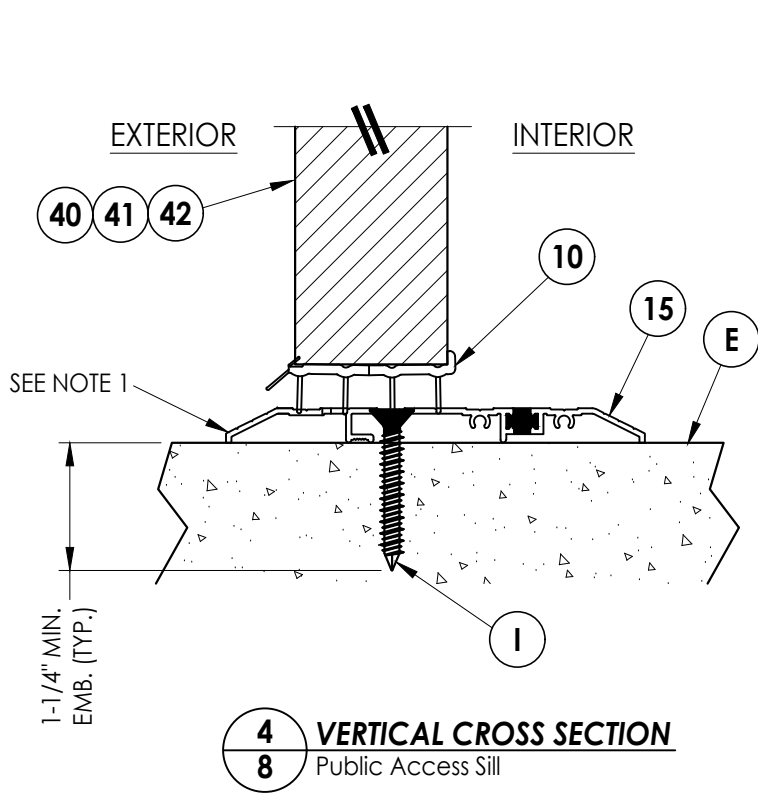
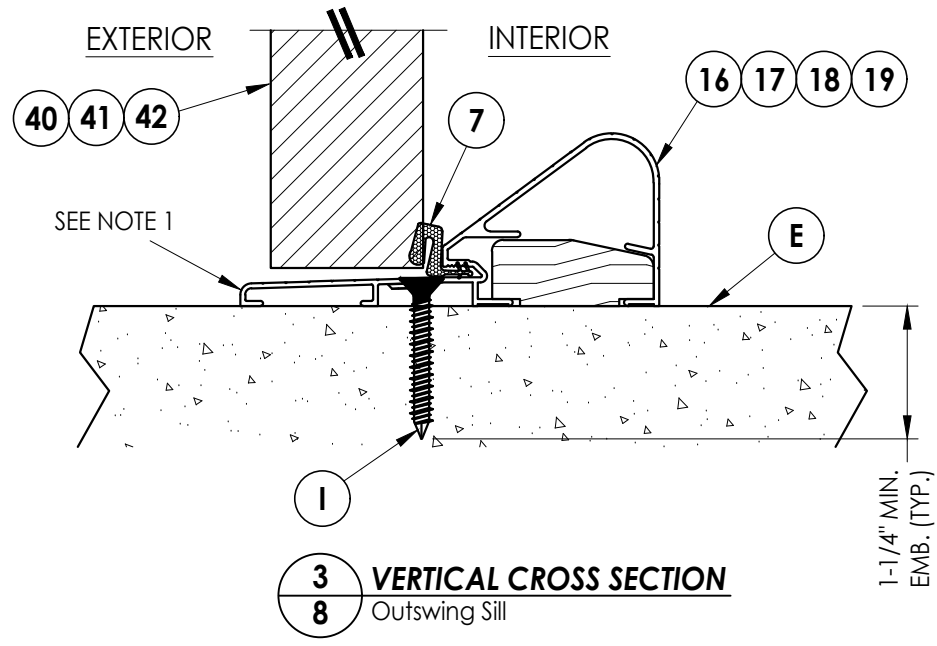
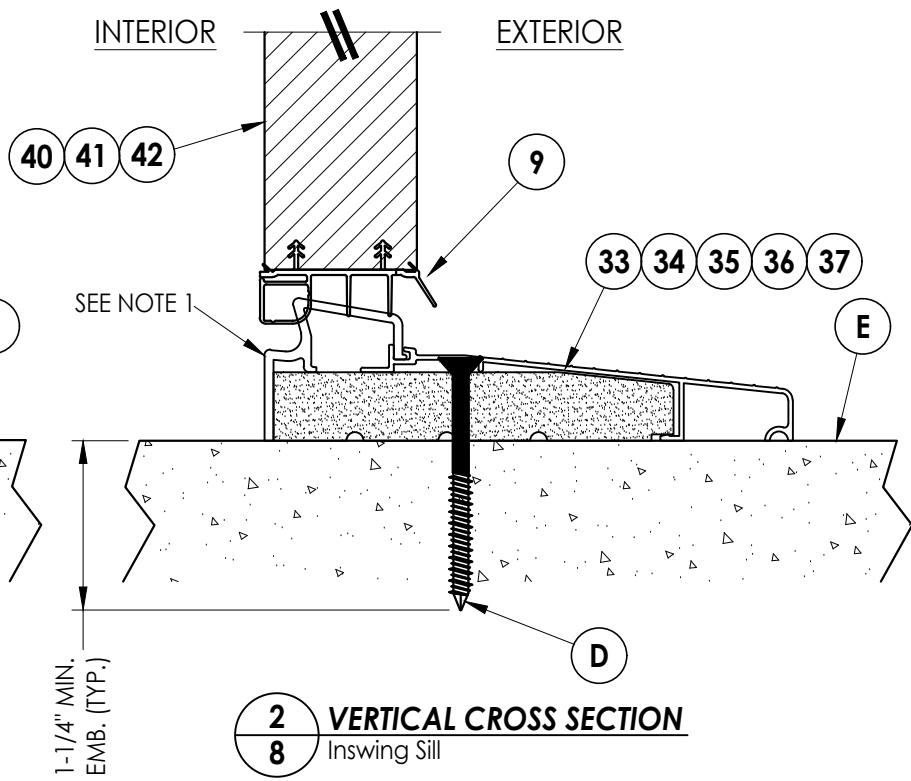
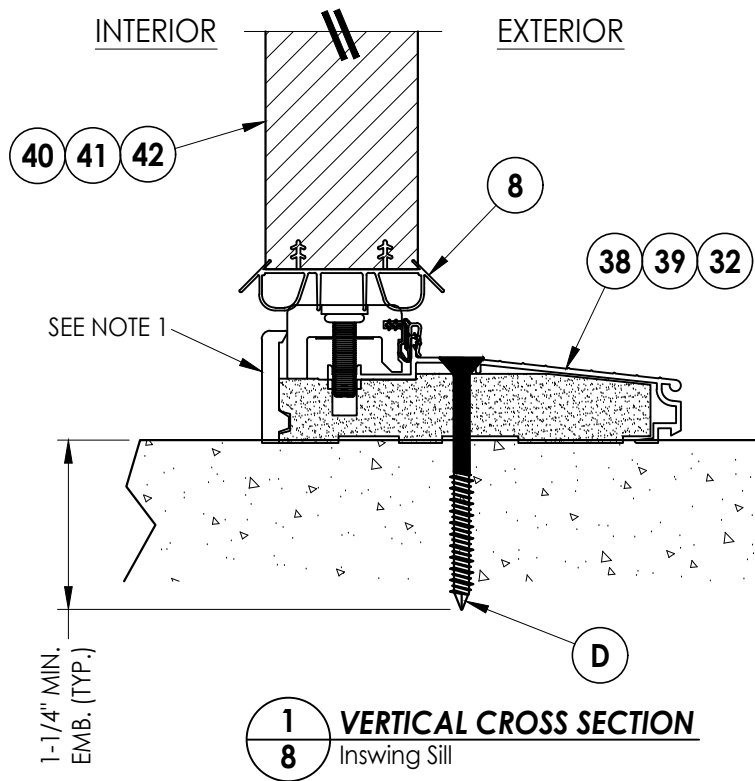
CHK. BY: LFS

DRAWING NO.: FL-20470.8

SHEET 7 OF 14

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- Notes:
- Sill Item #'s 16, 32, 33, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
 - Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



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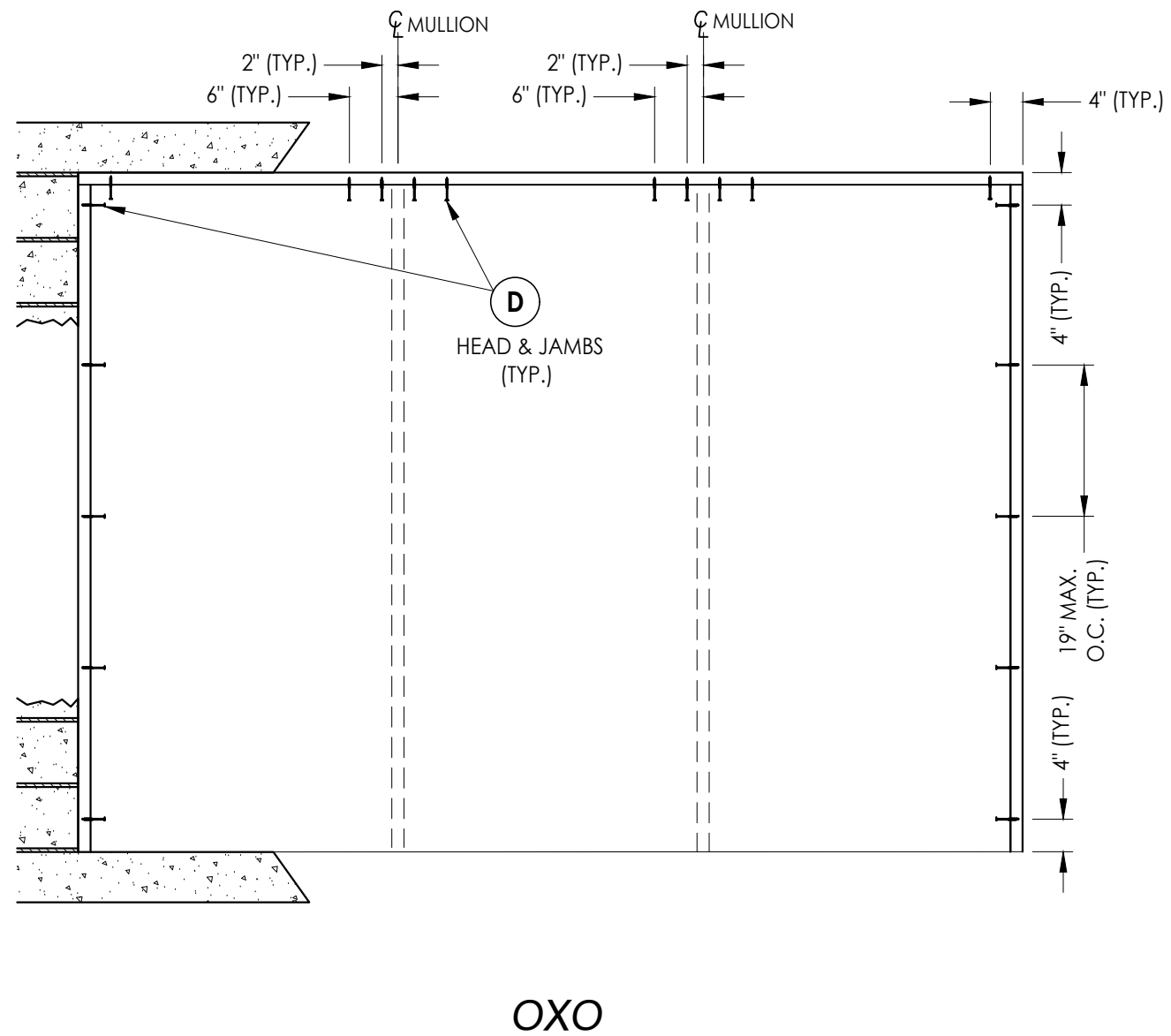
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS			
		BY	JK	LFS	LFS
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC		
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC		
2	7/22/20	UPDATE TO 7th ED. (2020)	FBC		
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC		
DATE: 08/02/16					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-20470.8					
SHEET 8 OF 14					

XO/OX

2X BUCK ANCHORING



OXO

4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS		
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
2	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS		
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK		
NO.	DATE			BY		
				REVISIONS		

DATE: 08/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20470.8

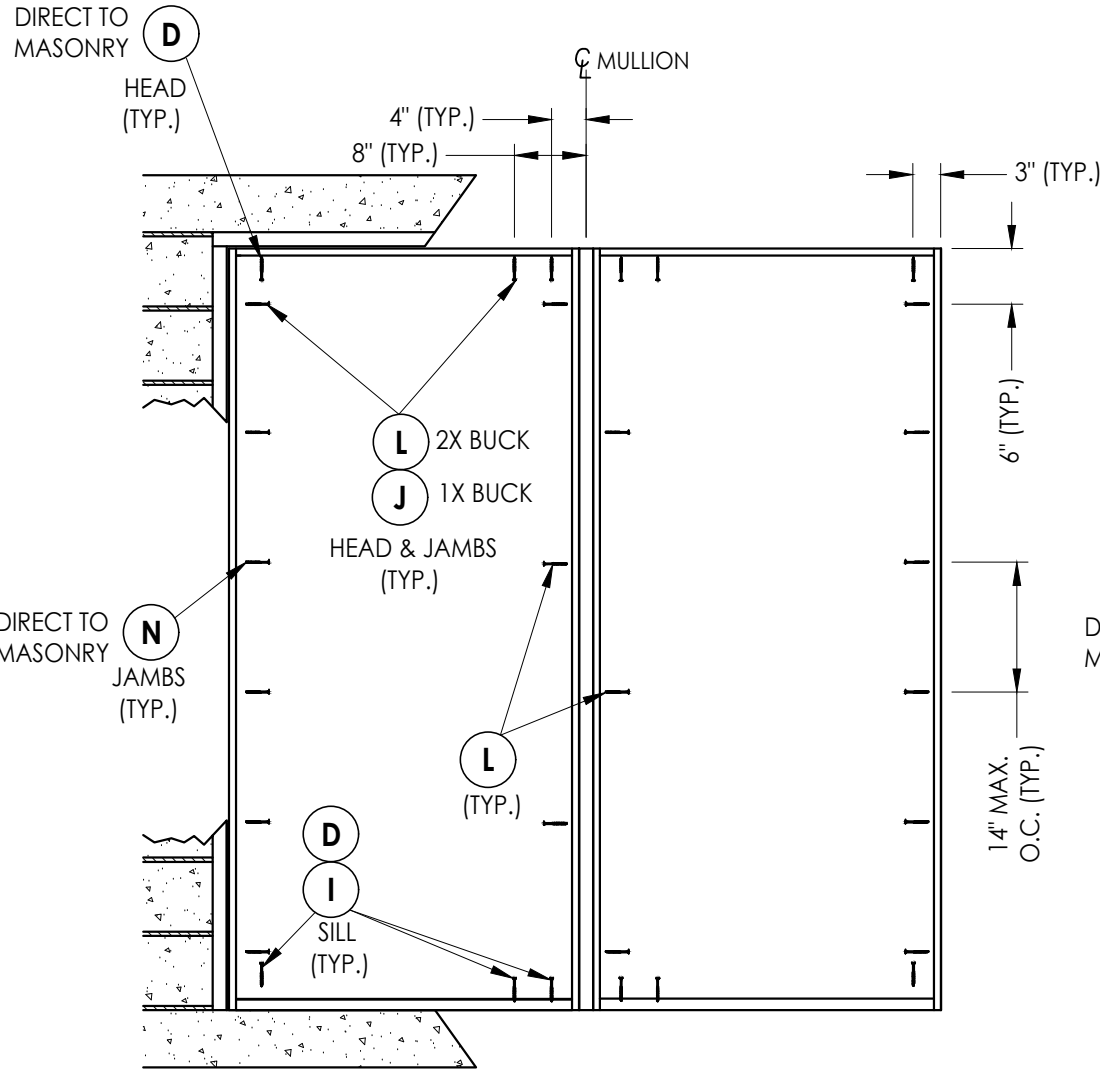
SHEET 9 OF 14

PRODUCT: THERMA-TRU FIBERGLASS DOOR	PART OR ASSEMBLY: BUCK ANCHORING
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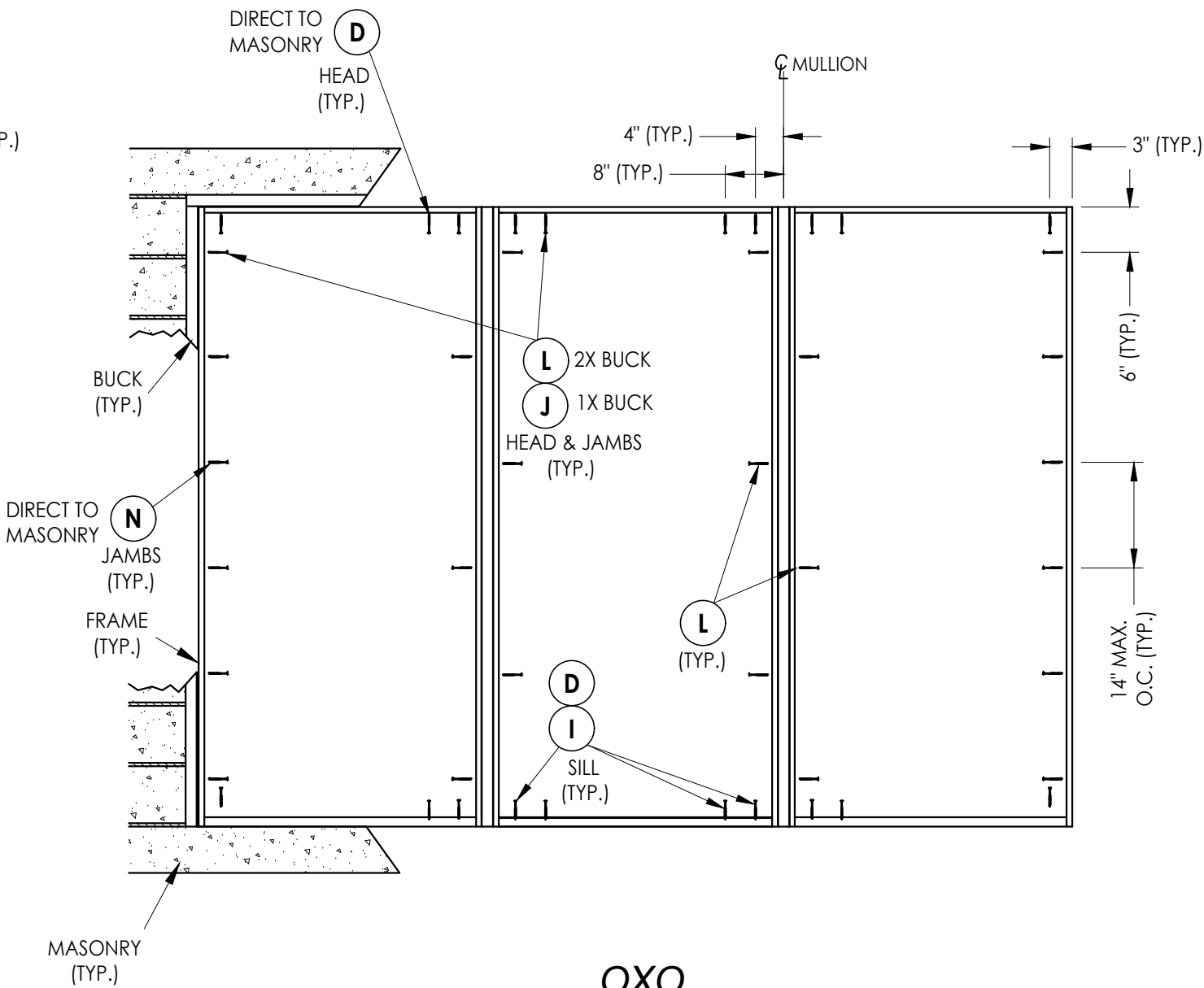
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Phone No.: 813.659.9197
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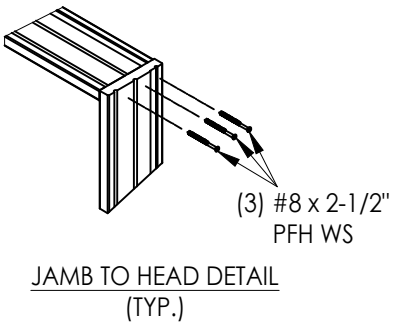


XO/OX



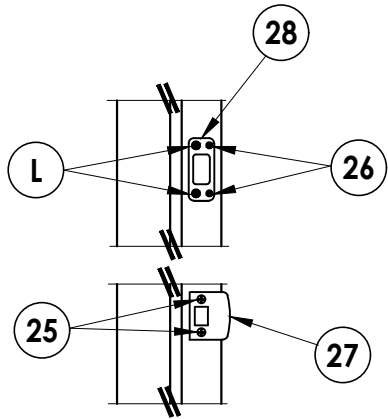
OXO

FRAME ANCHORING

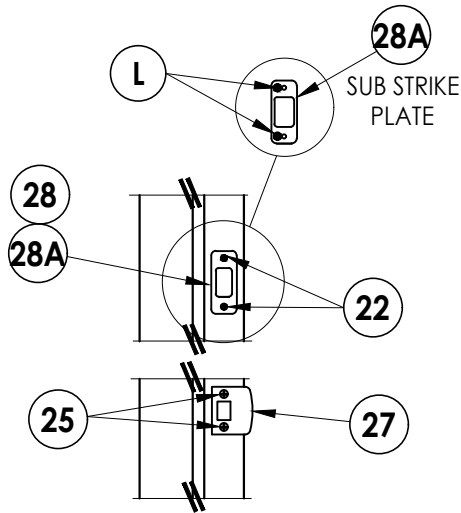


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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: FRAME ANCHORING					
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
2	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS			
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK			
		DATE		BY			
				REVISIONS			
DATE: 08/02/16							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-20470.8							
SHEET 10 OF 14							

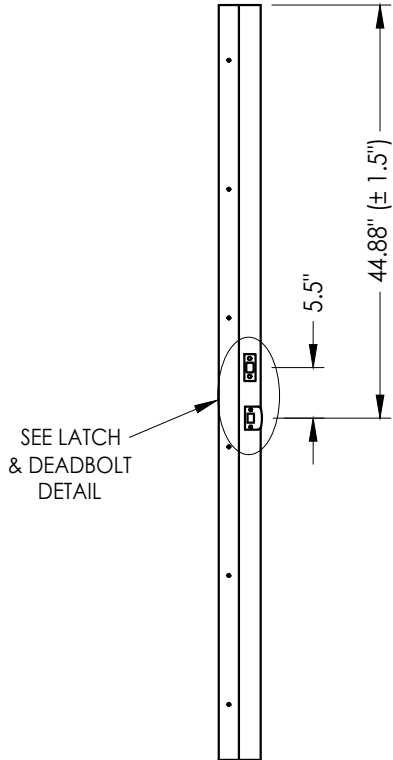
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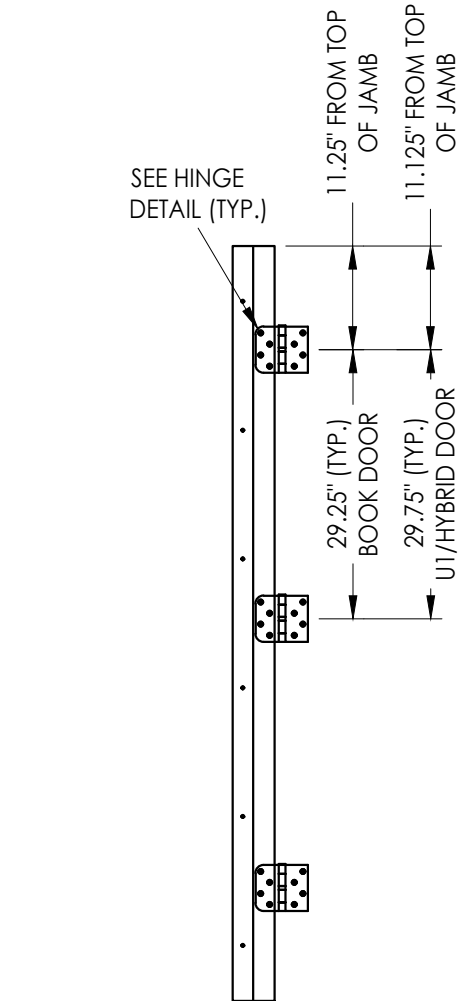
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Kwikset



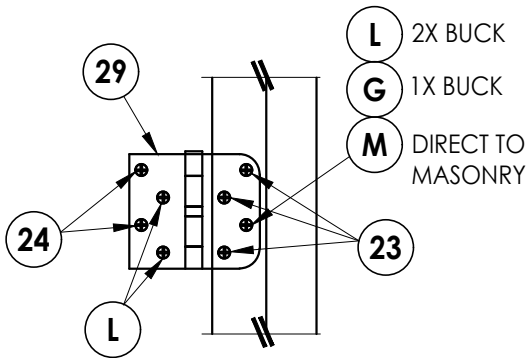
LATCH & DEADBOLT DETAIL
Schlage



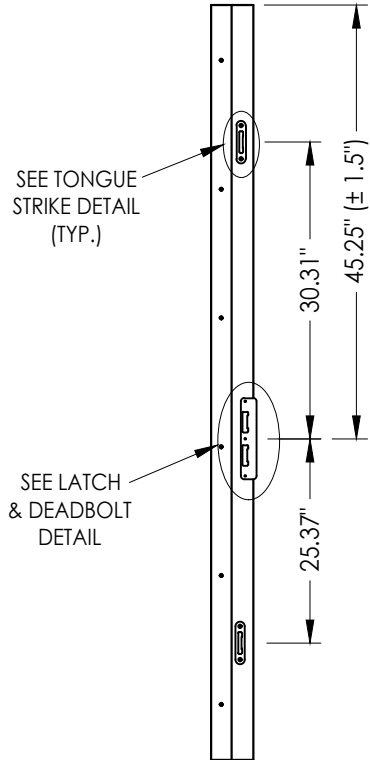
STRIKE JAMB
Latch and Deadbolt



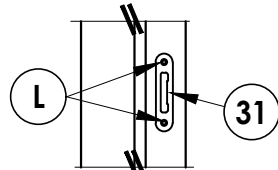
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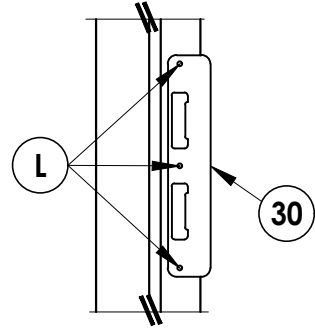
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

LATCH & DEADBOLT STRIKE DETAILS

MULTIPOINT LOCK STRIKE DETAILS

NO.	DATE	REVISIONS			
		BY	JK	LFS	FBC
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3	7/25/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	7/22/20	UPDATE TO 7th ED	(2020)	FBC	LFS
1	7/14/17	UPDATE TO 6TH ED.	(2017)	FBC	JK

DATE: 08/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20470.8

SHEET 11 OF 14

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P.E. No. 43409

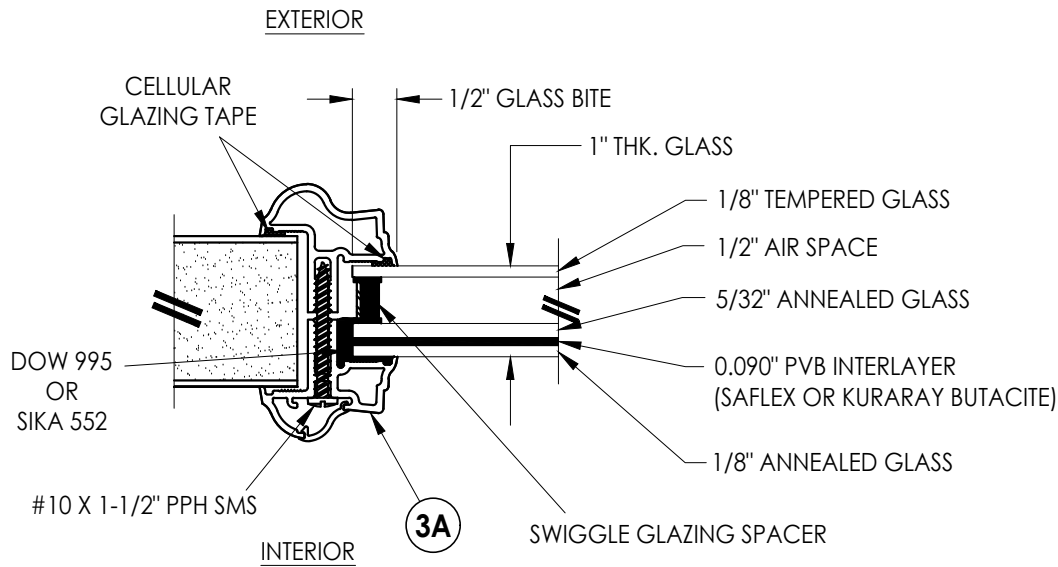
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

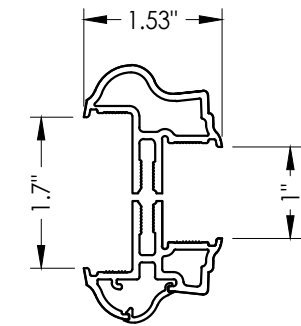
HARDWARE DETAILS

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Phone No.: 813.659.9197
FBPE Registry No. 9813

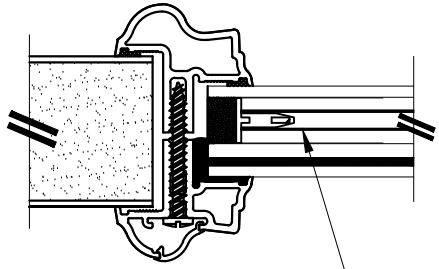
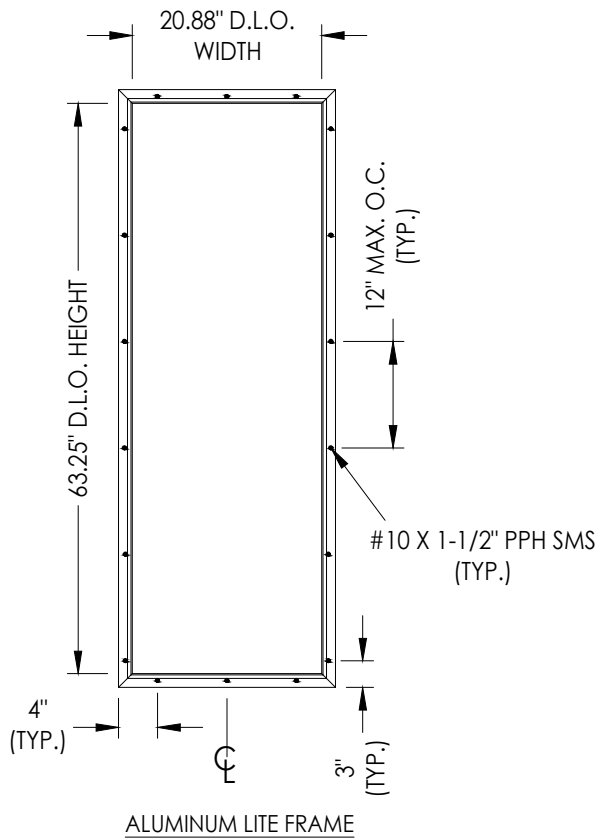
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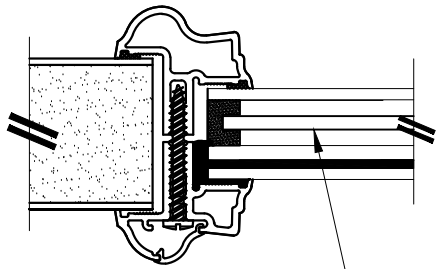
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



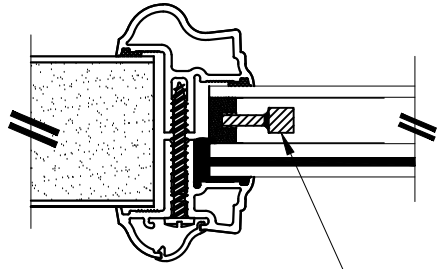
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



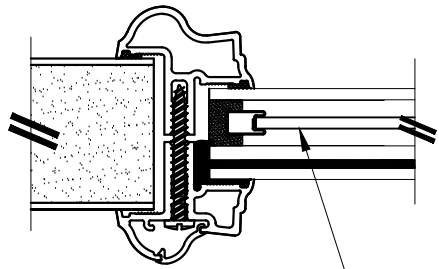
INTERNAL GRID (GBG)



PRIVACY INSERT



WROUGHT IRON INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC
2	7/22/20	UPDATE TO 7TH ED. (2020) FBC
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC
NO.	DATE	BY

DATE: 08/02/16

SCALE: N.T.S.

DWG. BY: JK

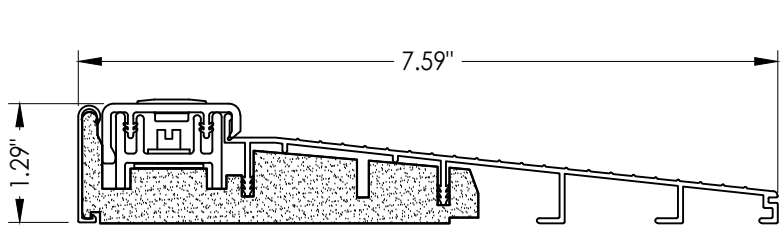
CHK. BY: LFS

DRAWING NO.:

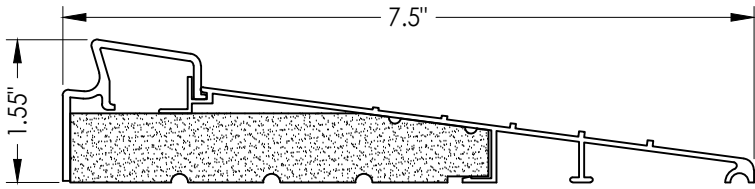
FL-20470.8

SHEET 12 OF 14

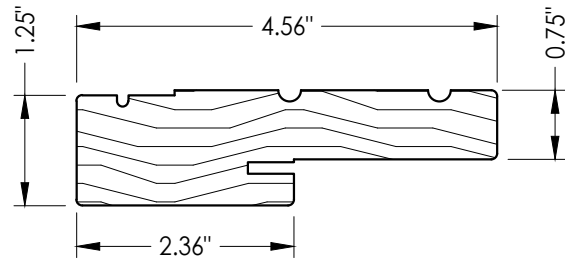
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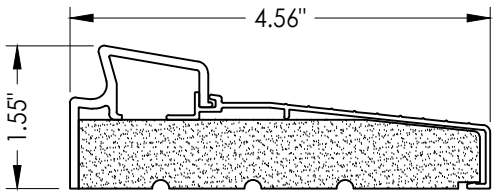
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



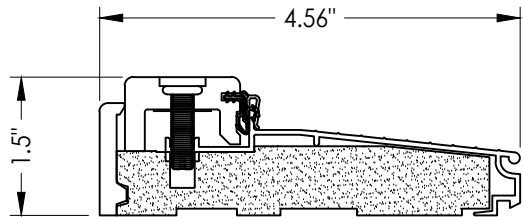
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



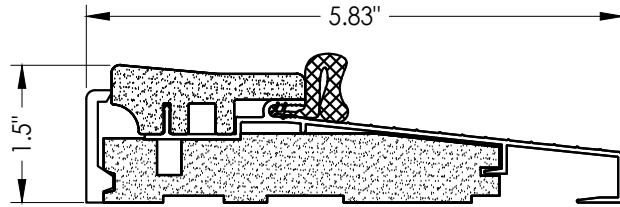
1 WOOD JAMB



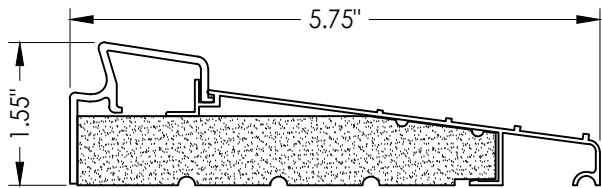
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



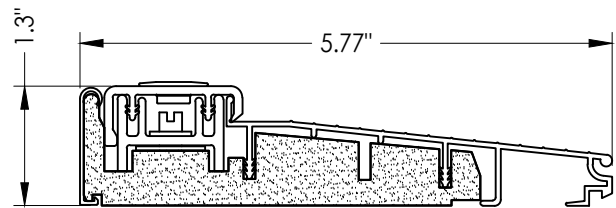
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



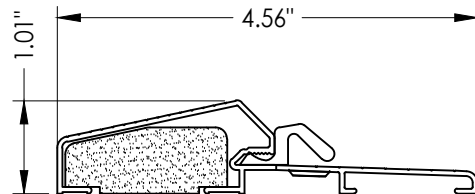
16 OUTSWING THRESHOLD
Composite Sill



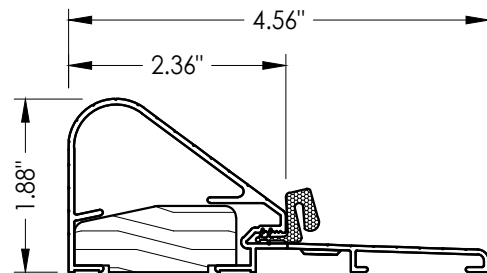
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



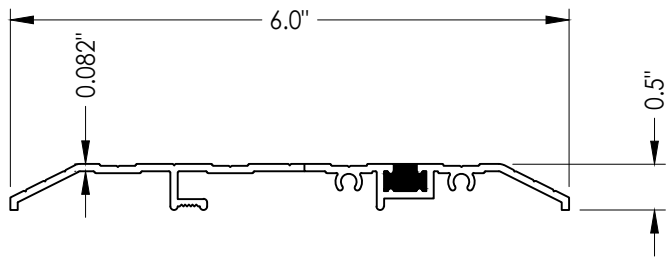
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



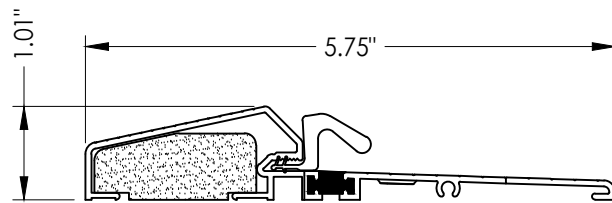
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



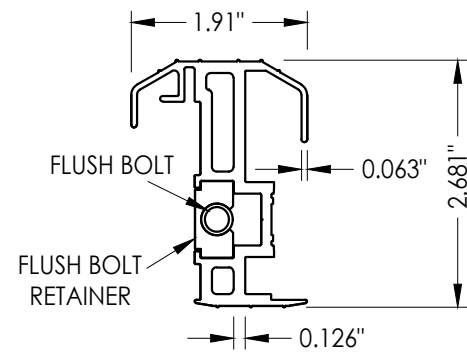
19 COASTAL OUTSWING THRESHOLD
Wood / Aluminum Sill



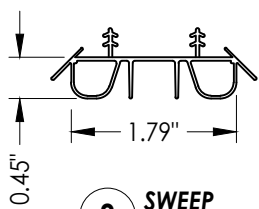
15 PUBLIC ACCESS THRESHOLD



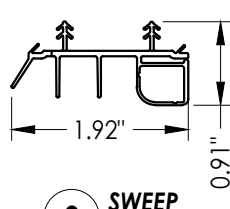
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



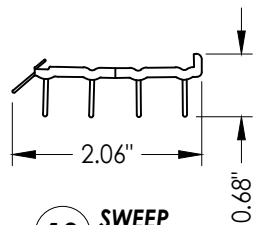
20 COASTAL ALUMINUM ASTRAGAL



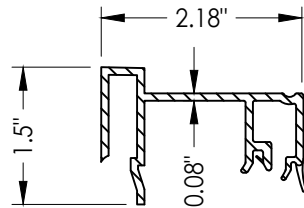
8 SWEEP



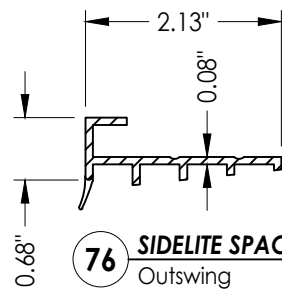
9 SWEEP



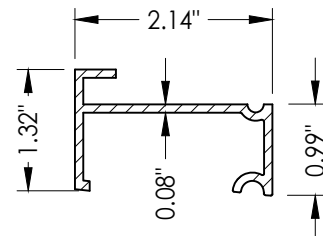
10 SWEEP



75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold

Documents Prepared By:
Lyndon F. Schmidt
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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS			
		BY	JK	LFS	FBC
4	7/02/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
3	7/25/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	7/22/20	UPDATE TO 7th ED	(2020)	FBC	LFS
1	7/14/17	UPDATE TO 6TH ED.	(2017)	FBC	JK

DATE: 08/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20470.8

SHEET 13 OF 14

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			29	4" X 4" HINGE	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	33	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	36	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	37	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	38	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	39	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	40	DOOR PANEL (BOOK)	-
8	SWEEP	VINYL	41	DOOR PANEL (HYBRID)	-
9	SWEEP (USE W/ MODERATE CLIMATE THRESHOLD)	VINYL	42	DOOR PANEL (U1)	-
10	SWEEP (USE W/ PUBLIC ACCESS THRESHOLD)	VINYL	50	SIDELITE	-
15	PUBLIC ACCESS THRESHOLD	ALUM	75	SIDELITE SPACER (INSWING)	PVC
16	OUTSWING THRESHOLD	ALUM/COMP	76	SIDELITE SPACER (OUTSWING)	PVC
17	OUTSWING THRESHOLD	ALUM/COMP	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
18	OUTSWING THRESHOLD	ALUM/COMP	88	2X MULLION (SG >= 0.55)	WOOD
19	COASTAL OUTSWING THRESHOLD	ALUM/WOOD	CORROSION RESISTANCE - SALTWATER ENVIRONMENTS Fasteners & connectors in areas within 3000 ft (914 m) of a		
22	#8 x 3/4" PFH WOOD SCREW	STEEL			
23	#10 x 3/4" PFH WOOD SCREW	STEEL			
24	#10 x 1" PFH WOOD SCREW	STEEL			

CORROSION RESISTANCE - SALTWATER ENVIRONMENTS

Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

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"	AS SHOWN	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.

DATE: 08/02/16		DRAWING NO.: FL-20470.8		CHK. BY: LFS		DWG. BY: JK		SCALE: N.T.S.		DATE: 08/02/16	
SHEET 14 OF 14		BUILDING CONSULTANTS, INC.		P.O. Box 230, Valrico, FL 33595		Phone No.: 813.659.9197		FBPE Registry No. 9813		P.E. No. 43409	
THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: BILL OF MATERIALS		R ^W		Lyndon F. Schmidt		Documents Prepared By:		P.E. No. 43409	
NO. DATE		REVISIONS		BY		JK		LFS		LFS	
1 7/14/17		UPDATE TO 6TH ED. (2017)		FBC		JK		LFS		LFS	
2 7/22/20		UPDATE TO 7th ED (2020)		FBC		LFS		LFS		LFS	
3 7/25/23		UPDATE TO 8TH ED. (2023)		FBC		LFS		LFS		LFS	
4 7/02/26		UPDATE TO 9TH ED. (2026)		FBC		LFS		LFS		LFS	