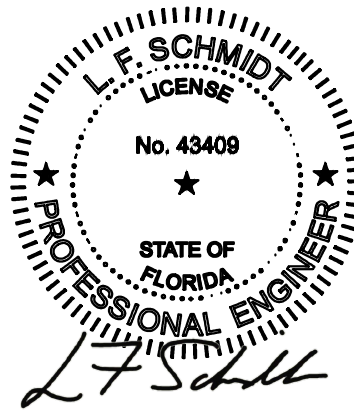


400 Zenway Blvd. Unit #1
Woodbridge, ON L4H 0S7

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



Digitally signed by
Lyndon F Schmidt
Date: 2026.08.17
14:07:43 -04'00'

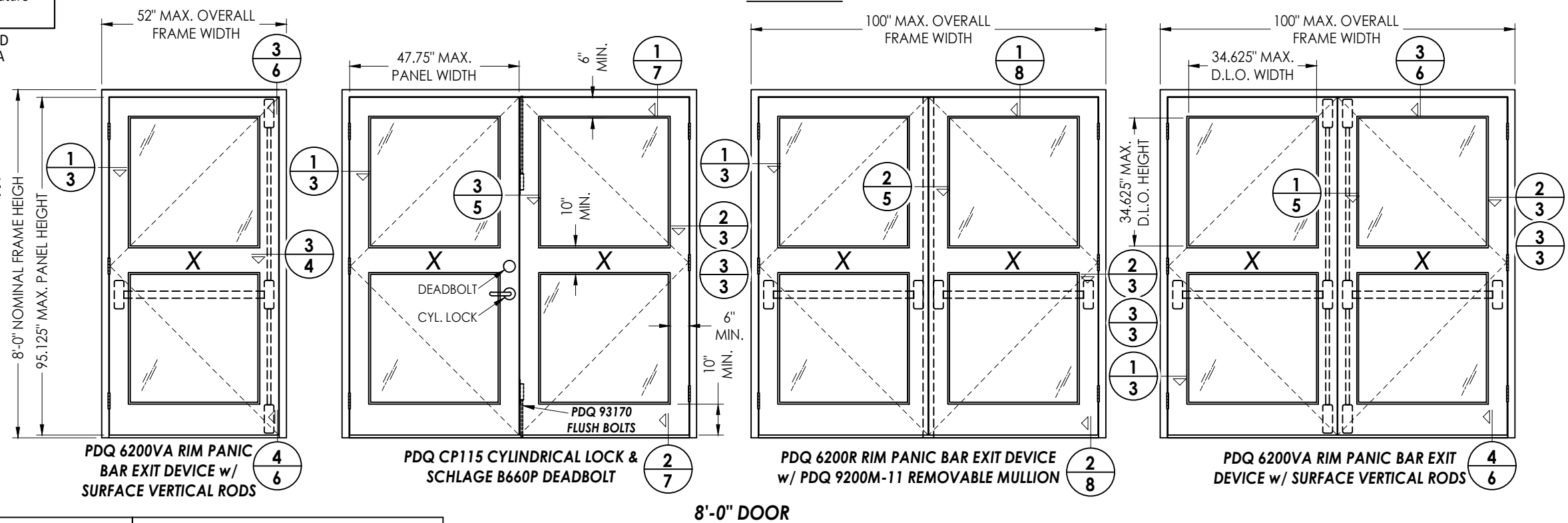
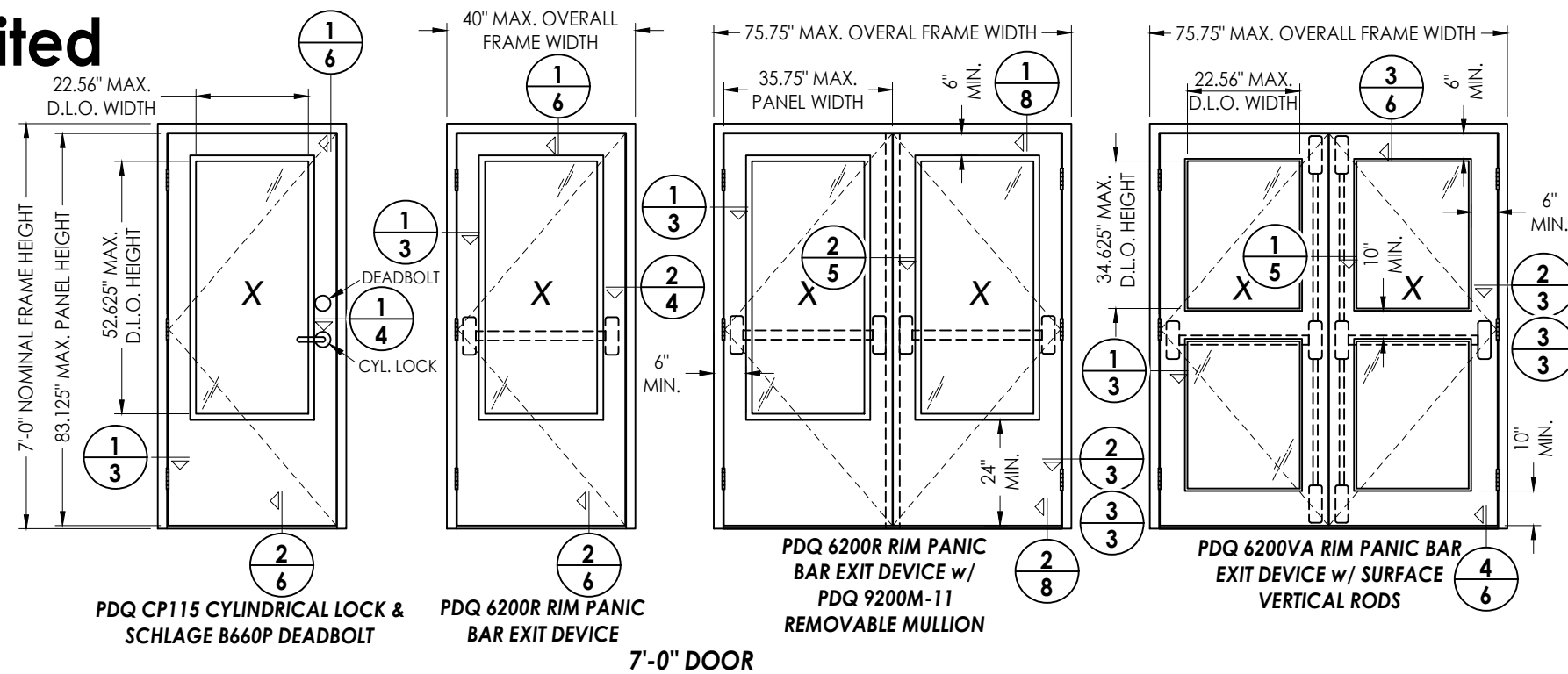


TABLE OF CONTENTS		TABLE OF CONTENTS	
SHEET #	DESCRIPTION	SHEET #	DESCRIPTION
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2	General notes & glazed door panel details	10	Frame anchoring: XX (7'-0" Door)
3	Horizontal cross sections	11	Frame anchoring: X (8'-0" Door)
4	Horizontal cross sections	12	Frame anchoring: XX (8'-0" Door)
5	Horizontal cross sections	13	Hardware details
6	Vertical cross sections	14	Components
7	Vertical cross sections	15	Bill of materials & components
8	Vertical cross sections		

CONFIG.	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
X	52.0" x 97.75"	+65.0	-65.0
XX	100.0" x 97.75"	+65.0	-65.0

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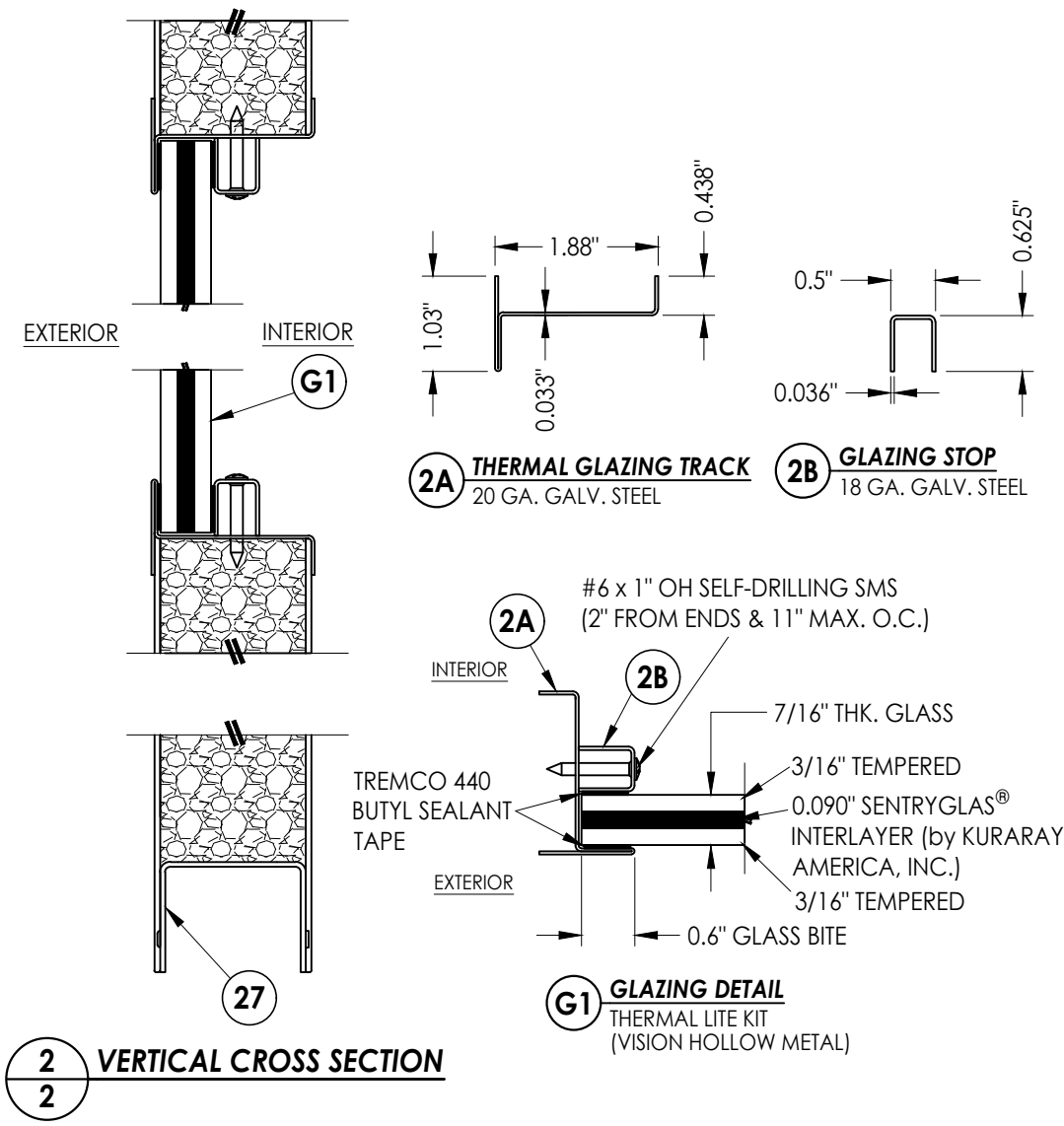
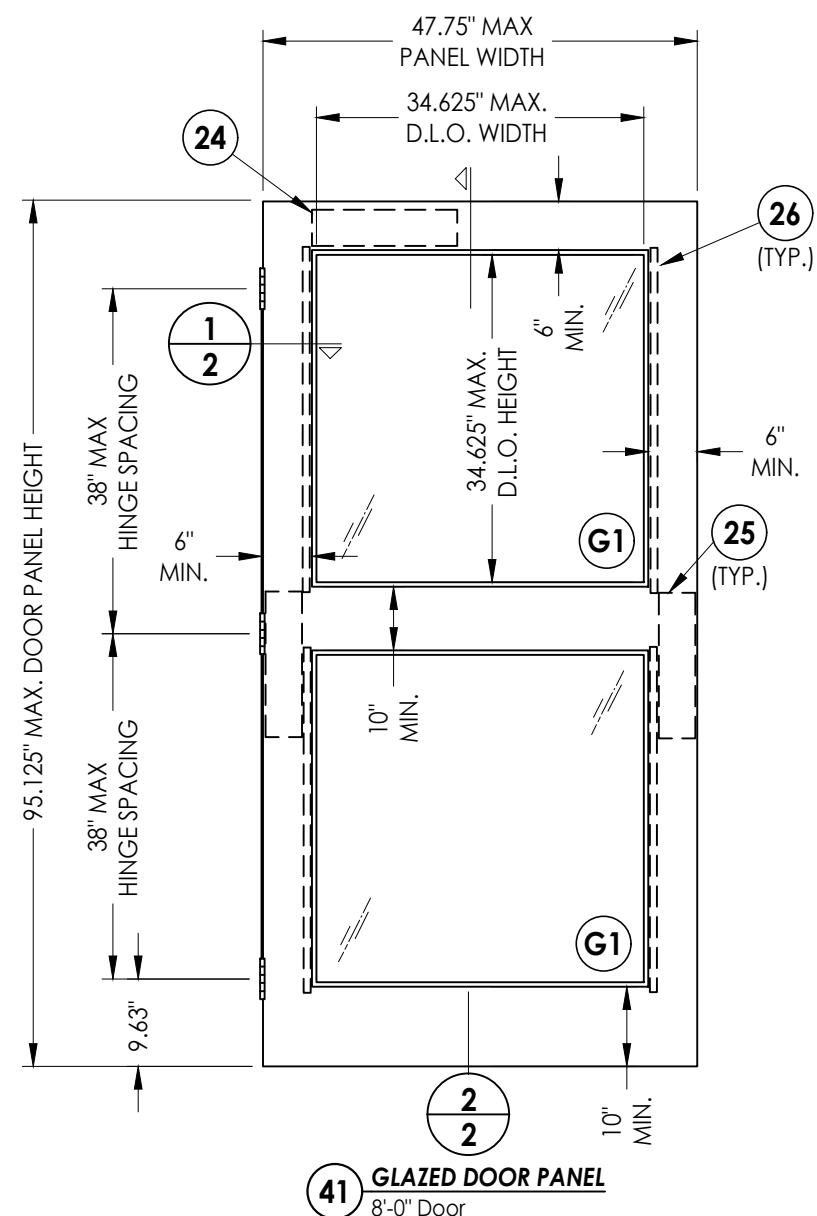
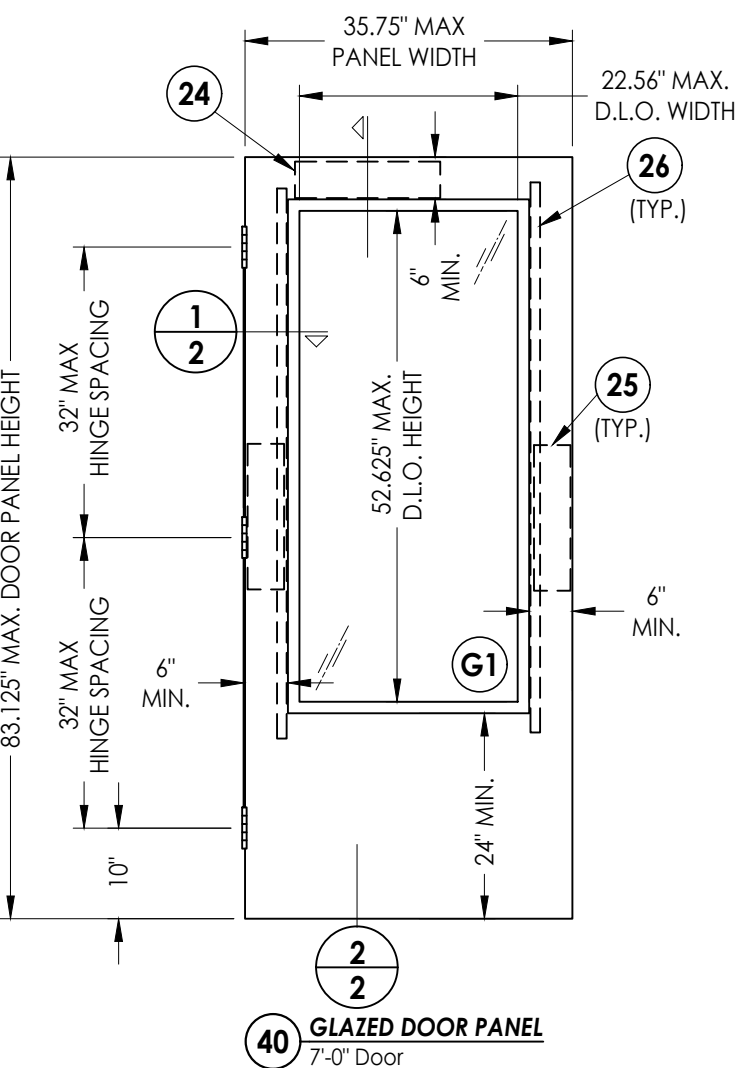
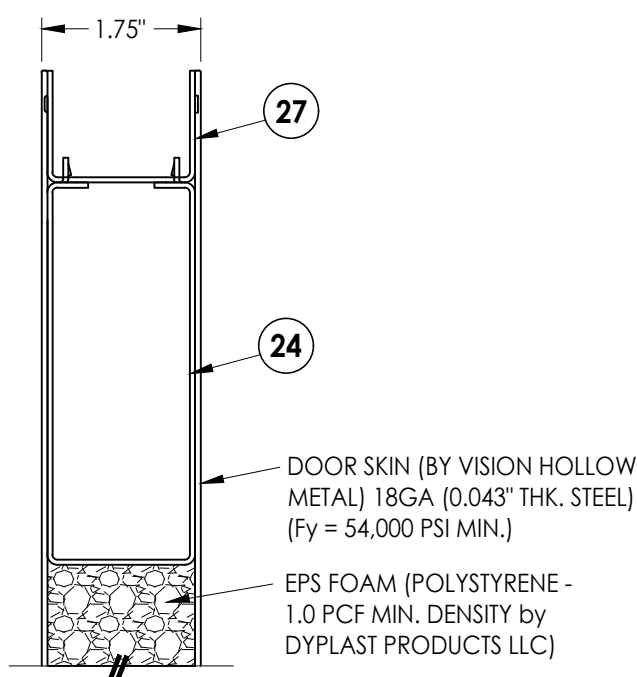
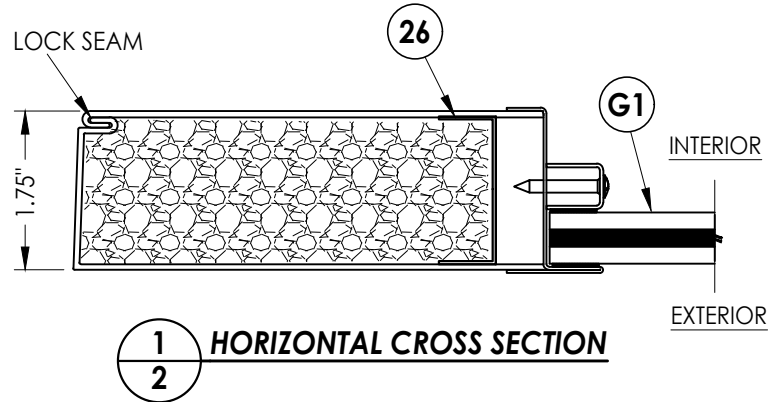
Documents Prepared By:
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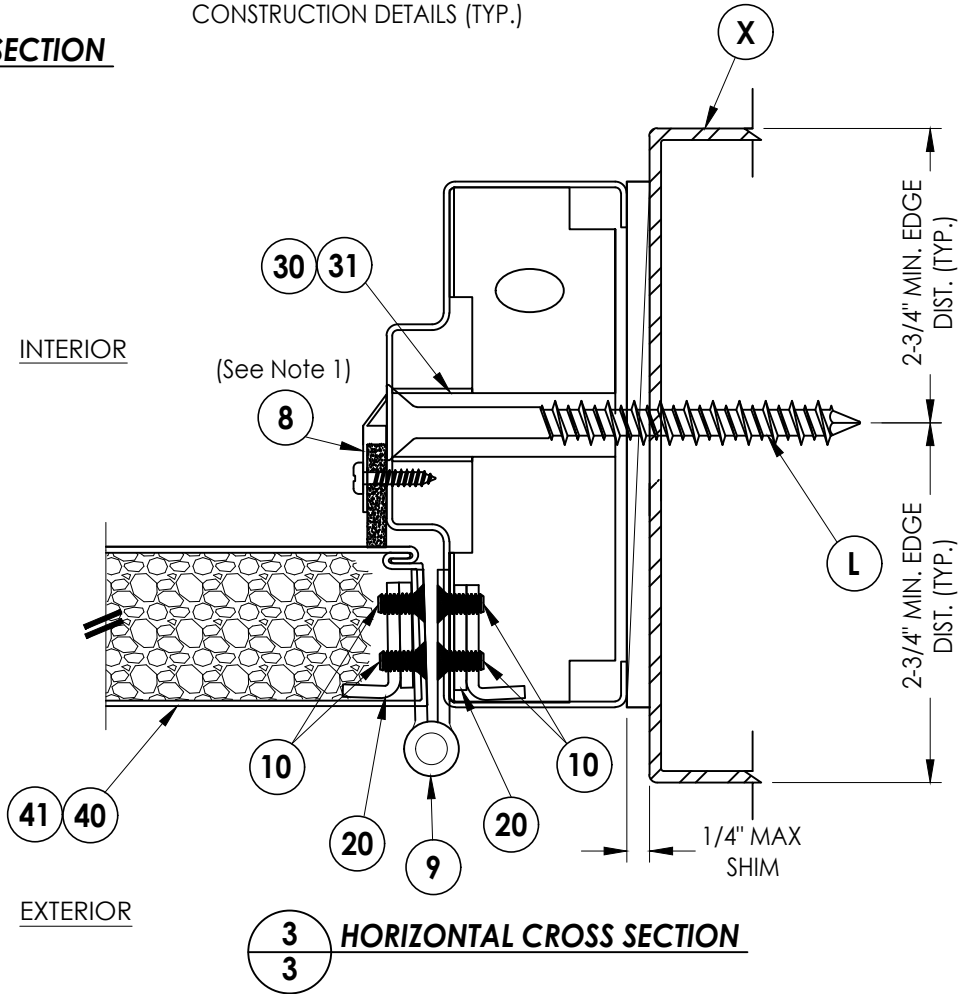
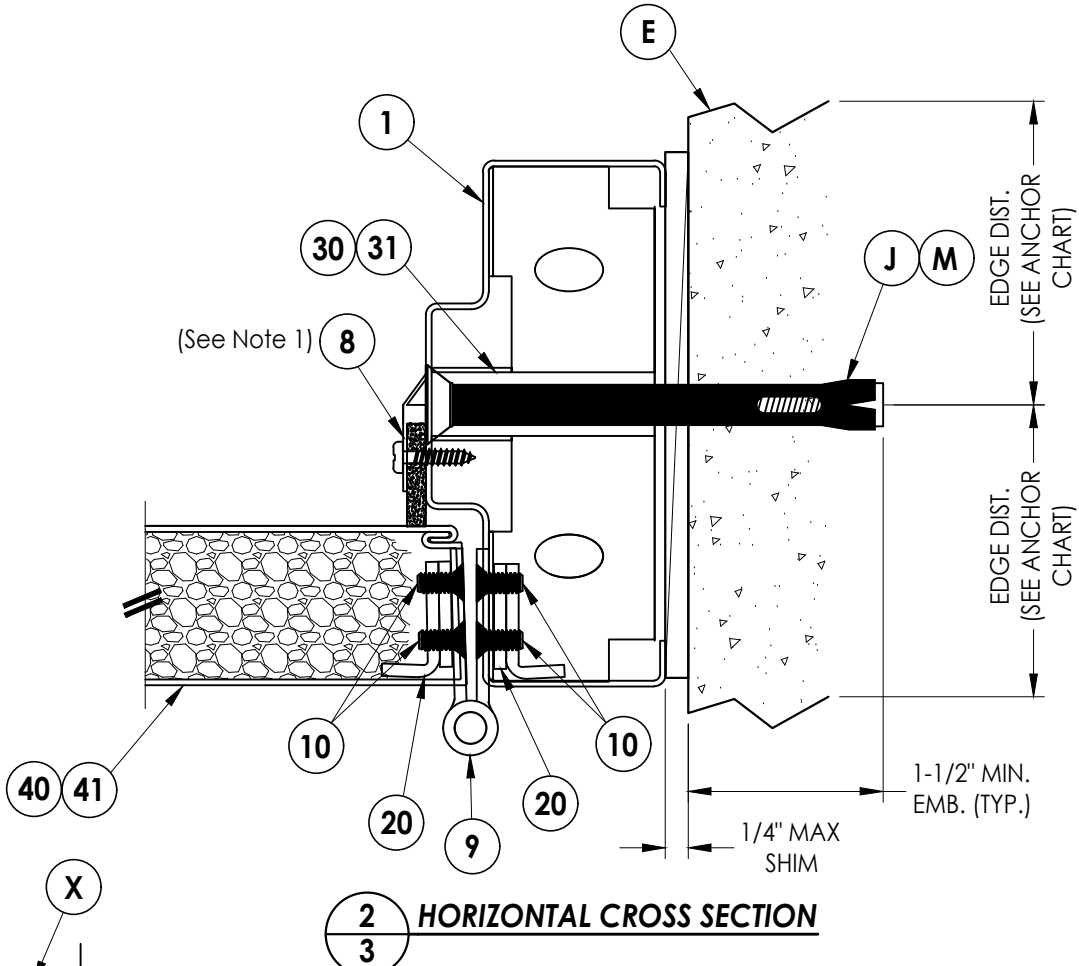
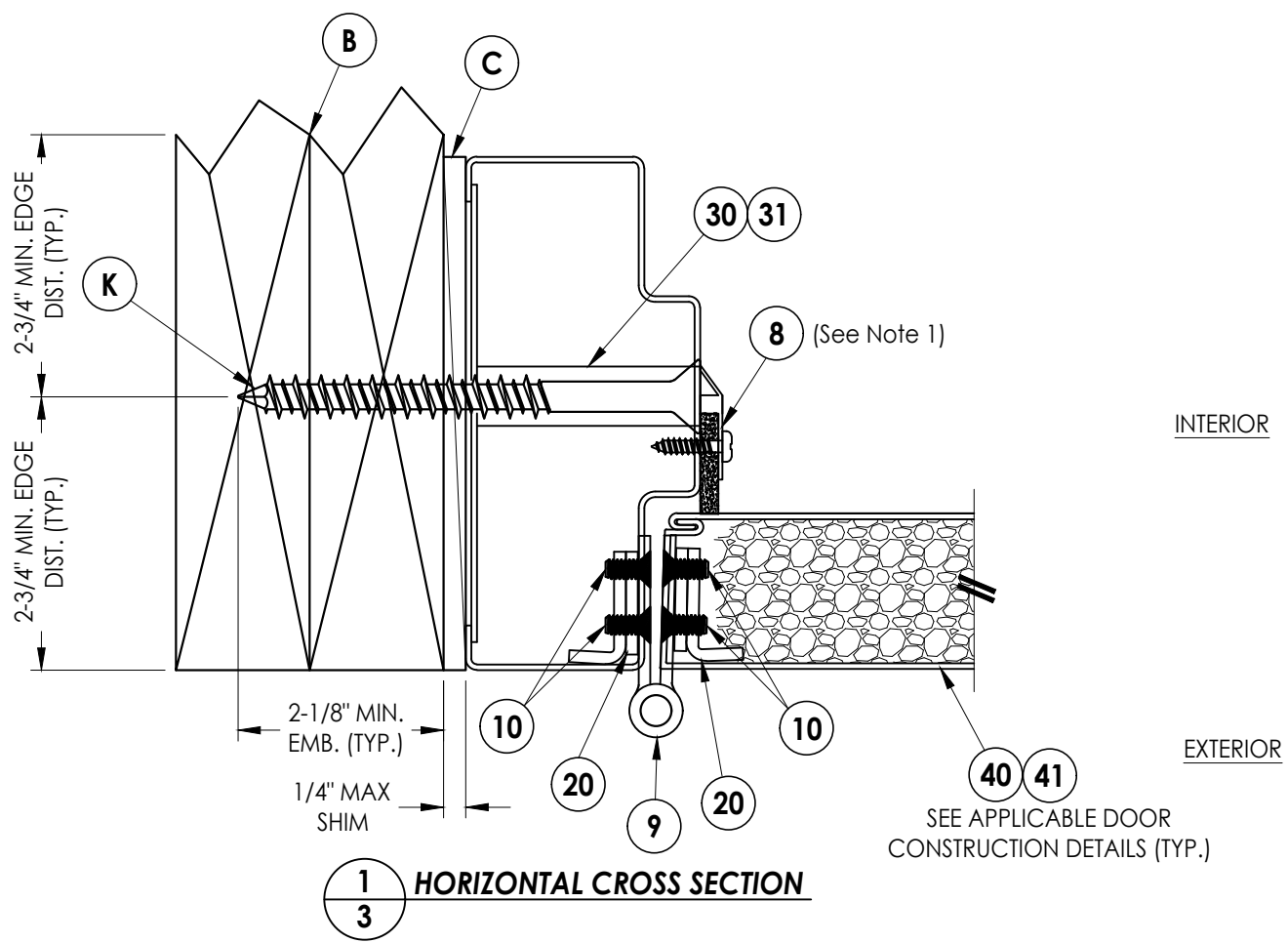
GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements for 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 FBC and does not require an impact resistant covering.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. This product meets water infiltration requirements for the "HVHZ".
6. All steel shall be protected as specified in Section 2222.6 of the FBC.



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PRODUCT:	LS18 STEEL DOOR	PART OR ASSEMBLY:	GENERAL NOTES & GLAZED DOOR PANEL DETAILS
		DATE	NO.
		8/17/26	1
		UPDATE TO 9TH ED. (2026) FBC	LFS
		BY	BY
		REVISIONS	
DATE: 4/29/26		SCALE: N.T.S.	
DWG. BY: LFS		CHK. BY: RW	
DRAWING NO.: FL-48188.1		SHEET 2 OF 15	

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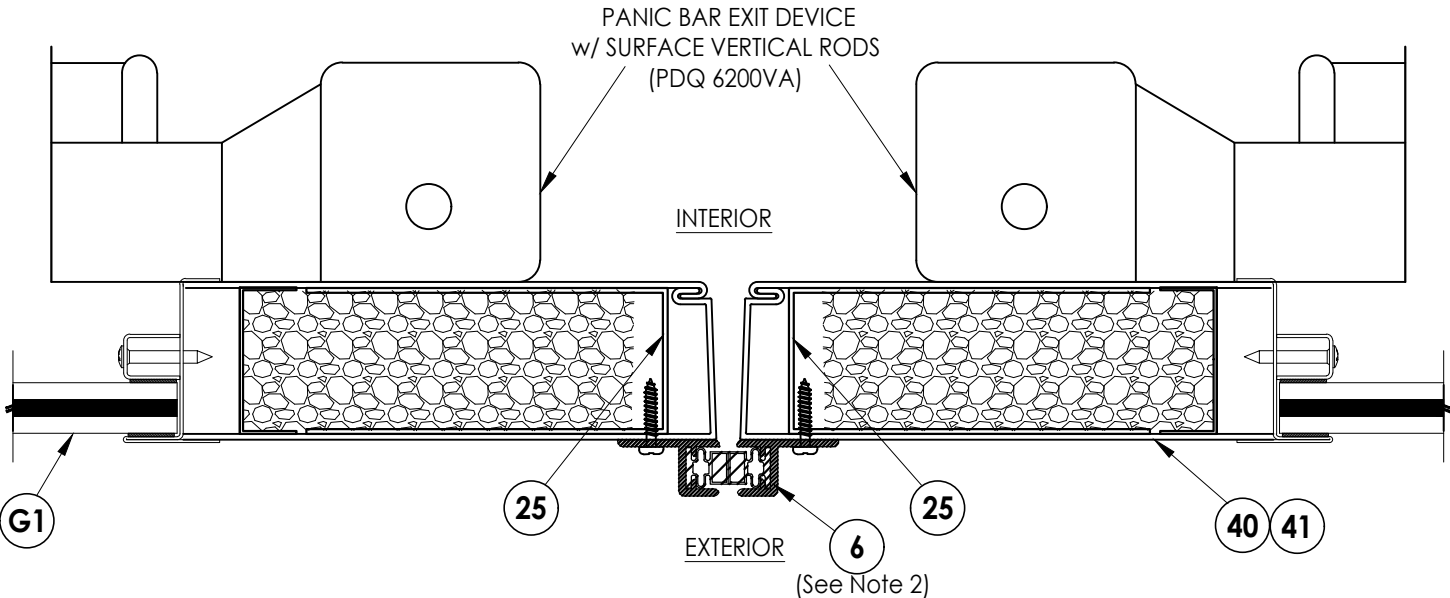
Note:
1. Frame weatherstrip attached w/ #6 X 5/8" PH SMS located 2" from ends & 8" max. o.c. thereafter.

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 License No. 9813			
PRODUCT: LS18 STEEL DOOR				PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS			
				REVISIONS			
DATE: 4/29/26							
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-48188.1							
SHEET 3 OF 15							

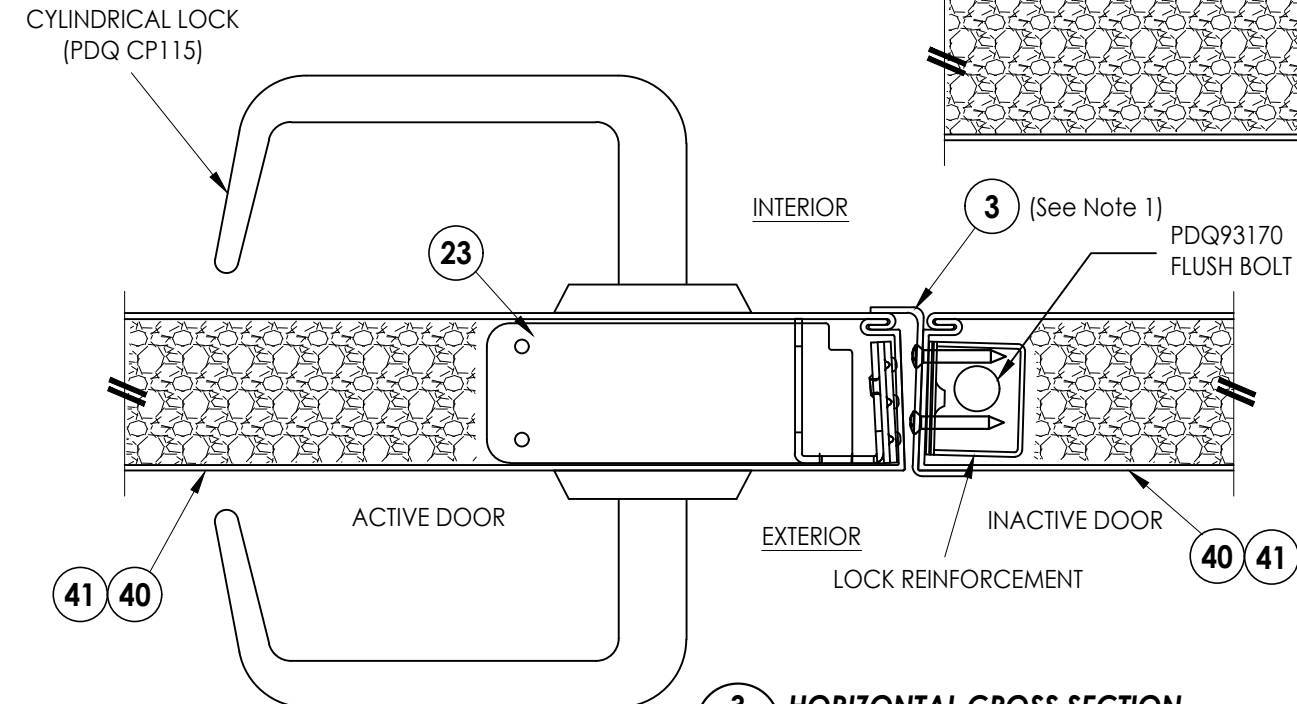
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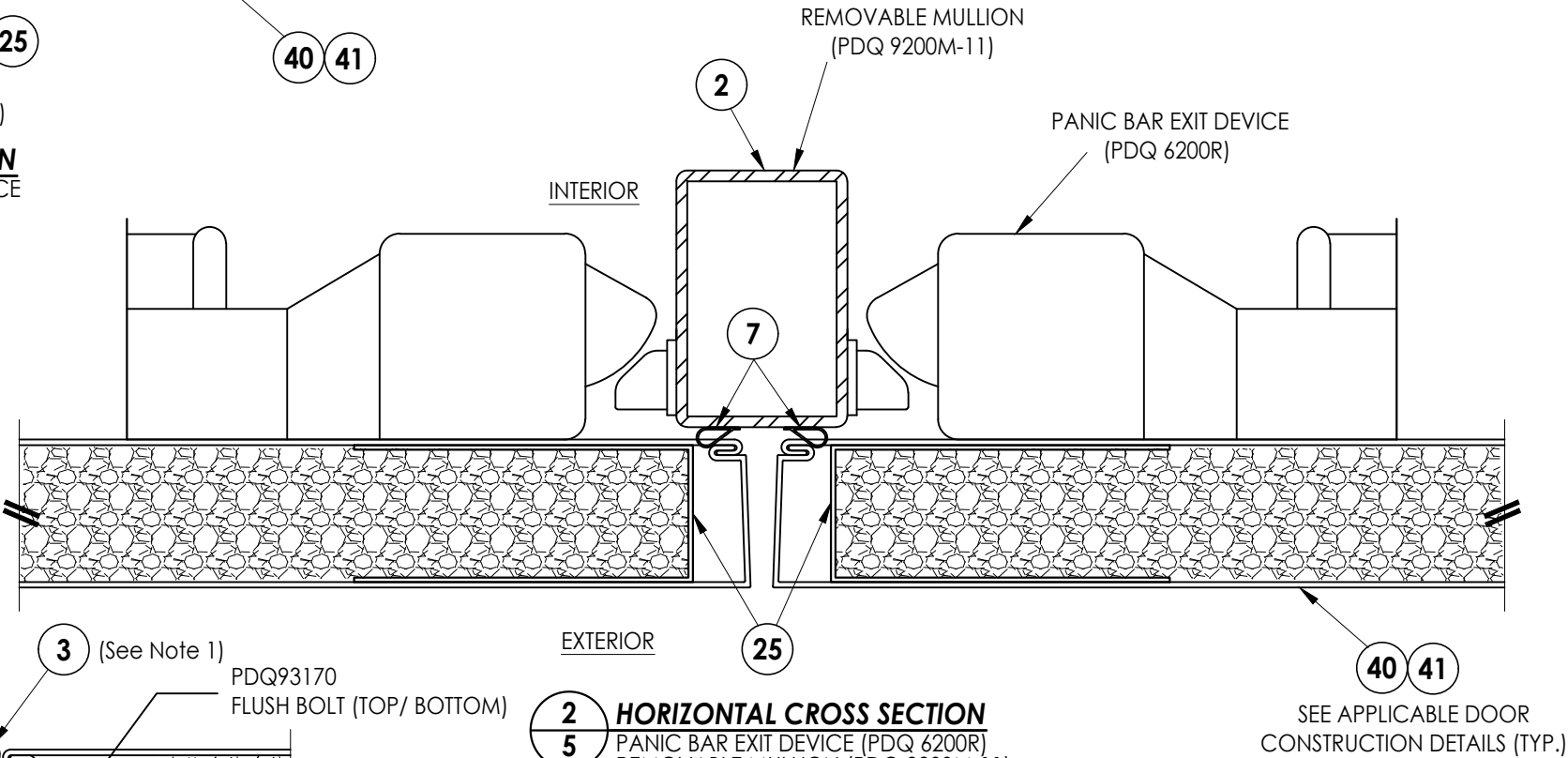
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1
5 **HORIZONTAL CROSS SECTION**
PANIC BAR EXIT DEVICE w/ SURFACE
VERTICAL RODS (PDQ 6200VA)



3
5 **HORIZONTAL CROSS SECTION**
CYLINDRICAL LOCK (PDQ G115) w/
DEADBOLT (SCHLAGE B660P)



2
5 **HORIZONTAL CROSS SECTION**
PANIC BAR EXIT DEVICE (PDQ 6200R)
REMOVABLE MULLION (PDQ 9200M-11)

- Notes:
1. "Z" Astragal attached to the inactive door w/ 2 rows of #6 x 1" OH Self-Drilling SMS located @ 2-1/2", 21-1/2", 33-1/2", 52-5/8", 64-5/8", 79-5/8" & 92-5/8" from bottom.
 2. Frame weatherstrip attached w/ #6 X 5/8" PH SMS located 2" from ends & 8" max. o.c. thereafter.

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P.E. No. 43409

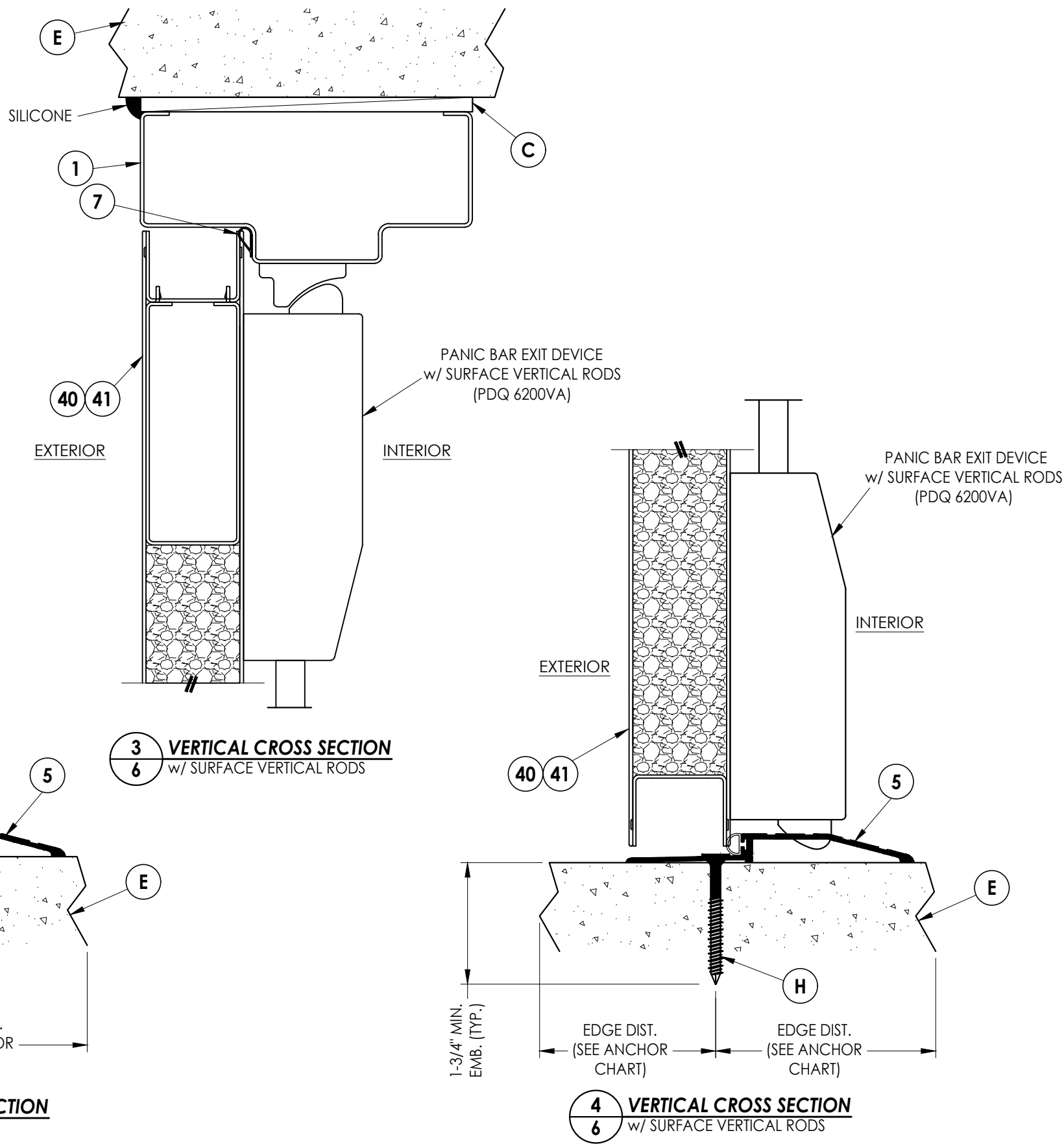
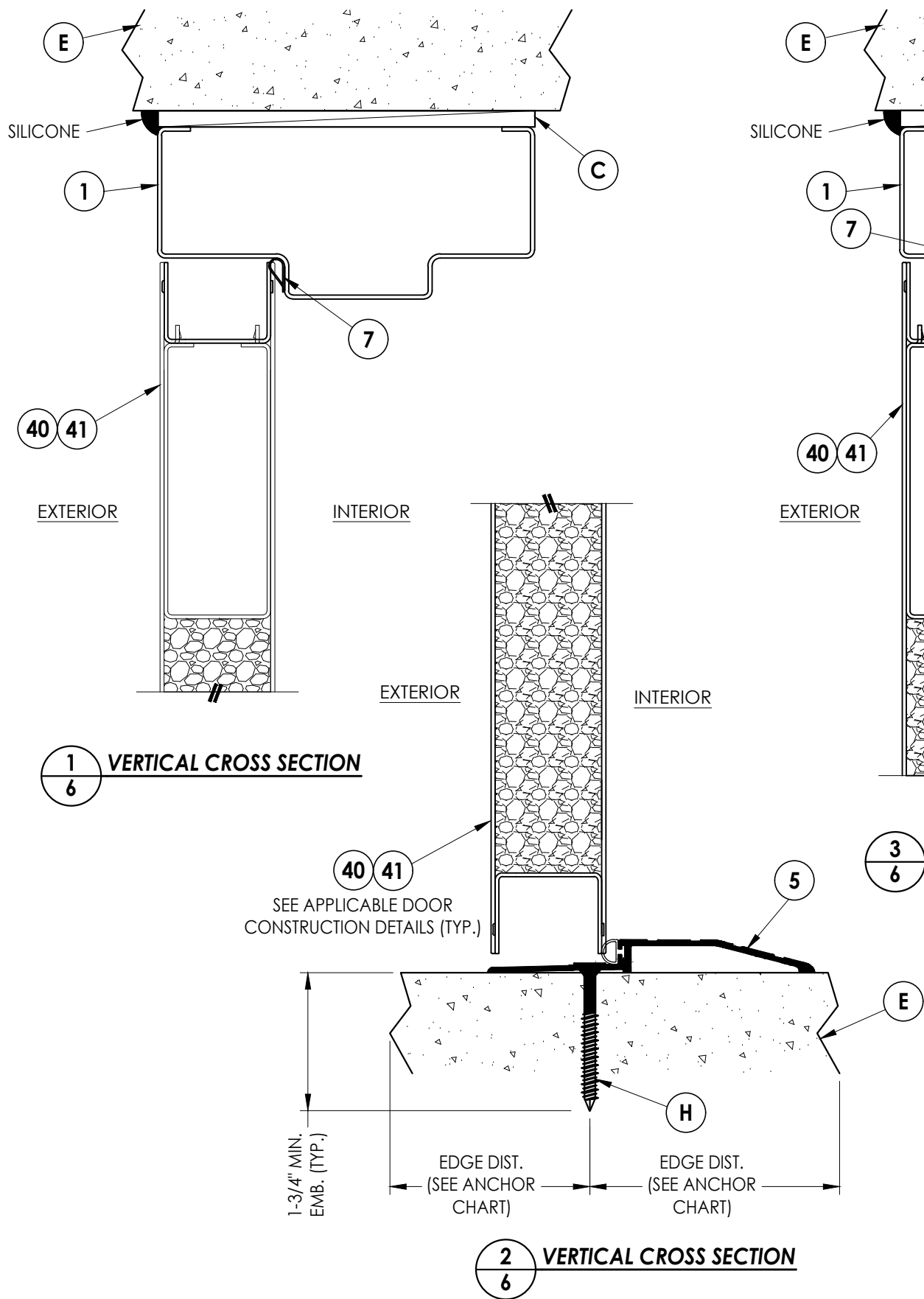
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PRODUCT:	LS18 STEEL DOOR	
	PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

NO.	DATE	BY	LFS
1	8/17/26	UPDATE TO 9TH ED. (2026)	FBC

DATE:	4/29/26
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-48188.1
SHEET	5 OF 15

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PRODUCT:
LS18 STEEL DOOR

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
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		LFS
		BY

DATE: 4/29/26

SCALE: N.T.S.

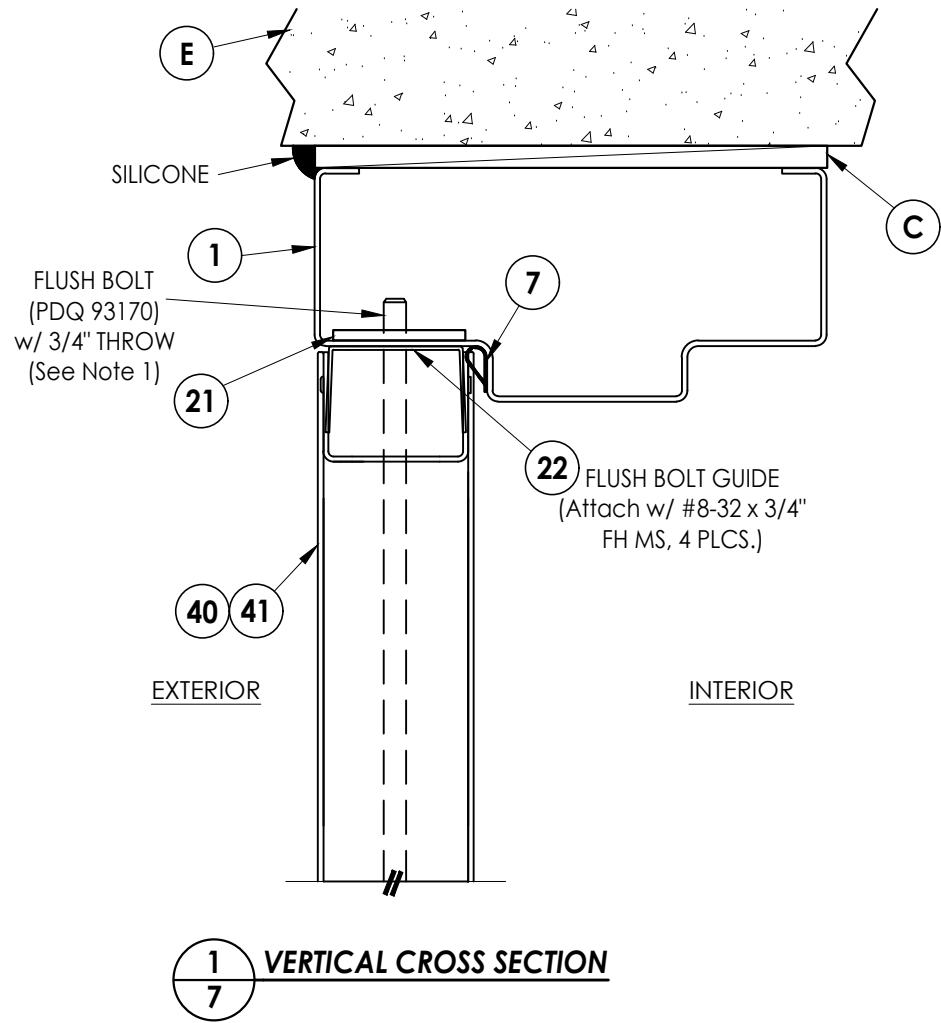
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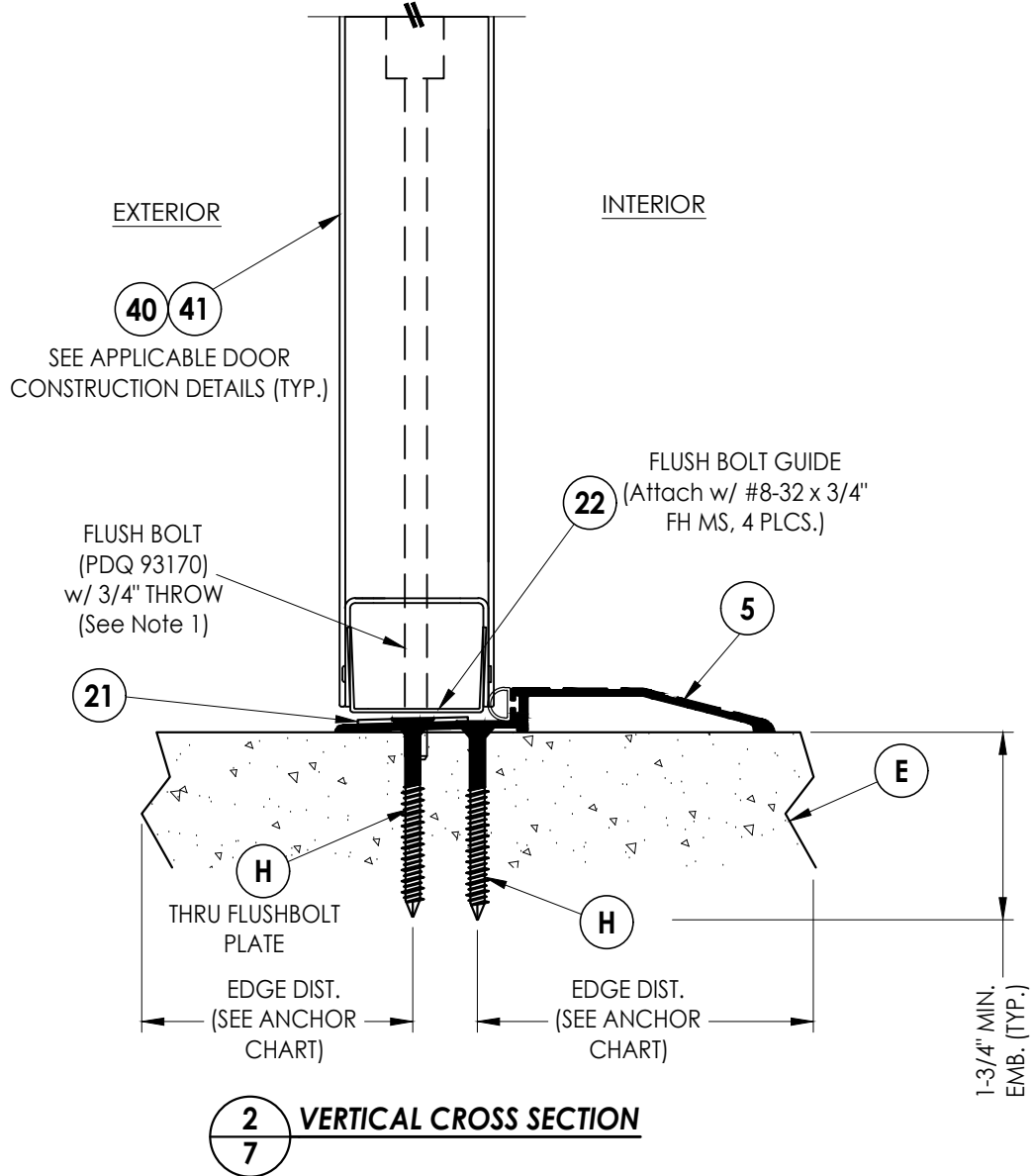
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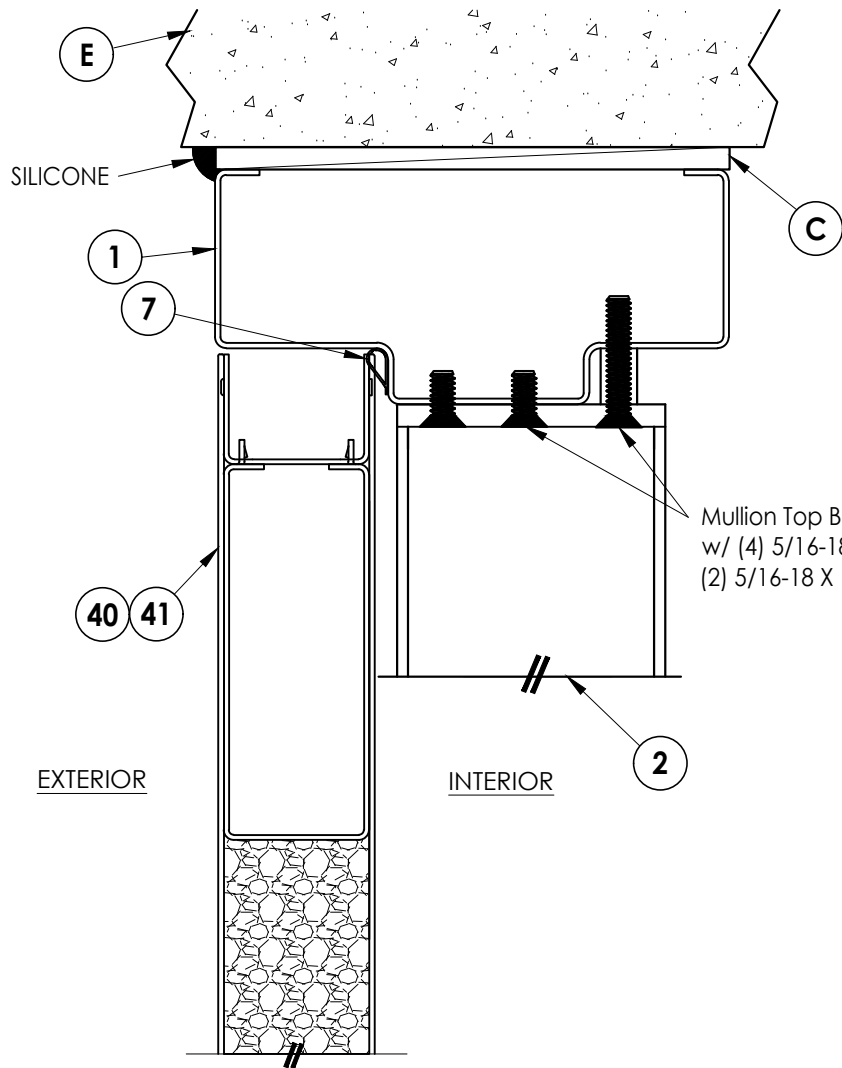
SHEET 6 OF 15



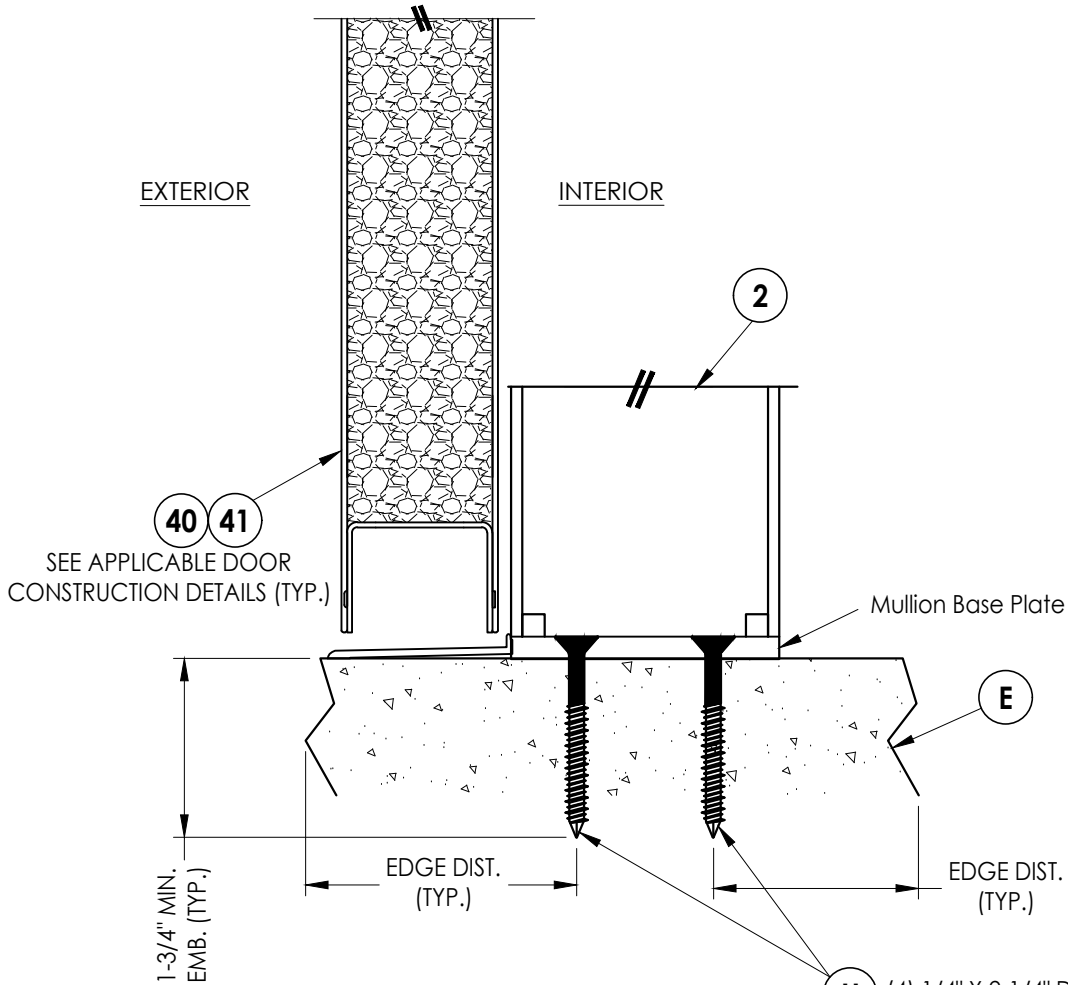
Note:
1. Flush Bolt required w/ Cylindrical Lock & Deadbolt only.

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1
8 **VERTICAL CROSS SECTION**
w/ REMOVABLE MULLION (PDQ 9200M-11)



2
8 **VERTICAL CROSS SECTION**
w/ REMOVABLE MULLION (PDQ 9200M-11)

(NOTE: Outswing threshold not shown for clarity)

H (4) 1/4" X 2-1/4" DeWALT Ultracon+ Concrete Anchors through mullion base plate. Anchors require a 1-3/4" min. embedment, 1-1/2" min. o.c. spacing and 2-1/2" min. edge distance.

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PRODUCT:
LS18 STEEL DOOR

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
1	8/17/26	UPDATE TO 9TH ED. (2026) FBC
		LFS
		BY

DATE: 4/29/26

SCALE: N.T.S.

DWG. BY: LFS

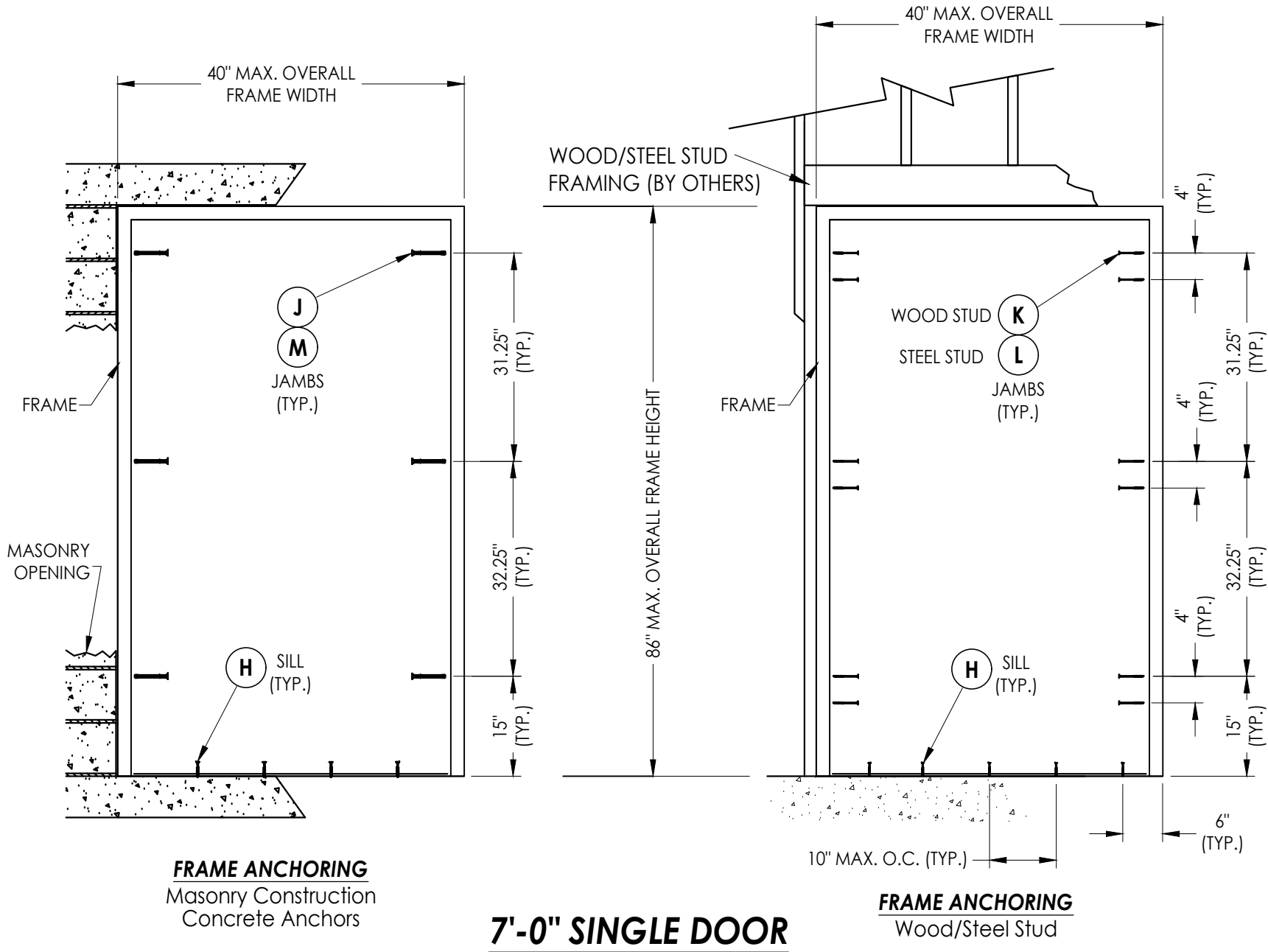
CHK. BY: RW

DRAWING NO.:

FL-48188.1

SHEET 8 OF 15

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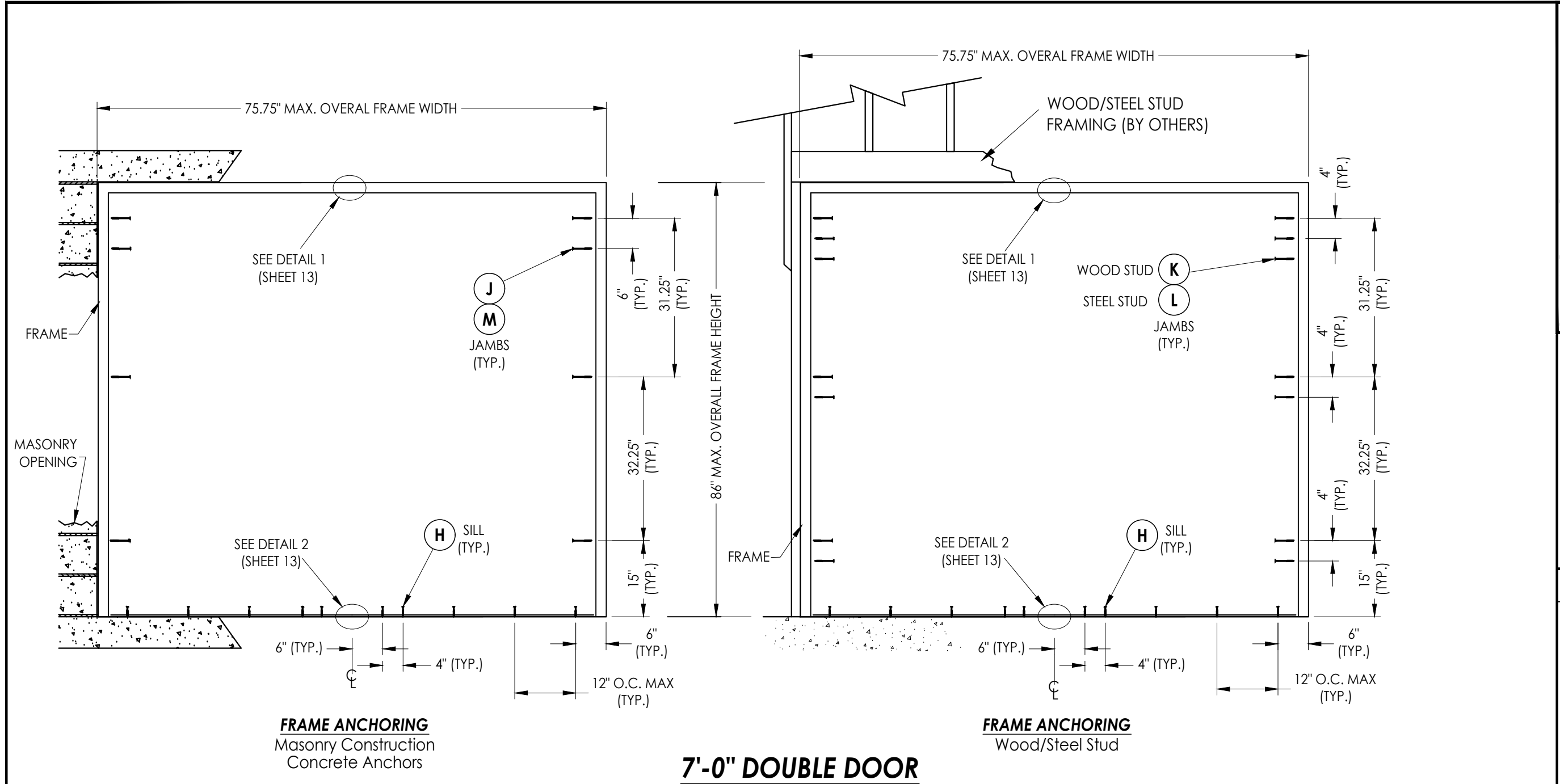
CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

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 License No. 9813	
PRODUCT: LS18 STEEL DOOR		PART OR ASSEMBLY: FRAME ANCHORING X (7'-0" DOOR)	
			LFS
			BY

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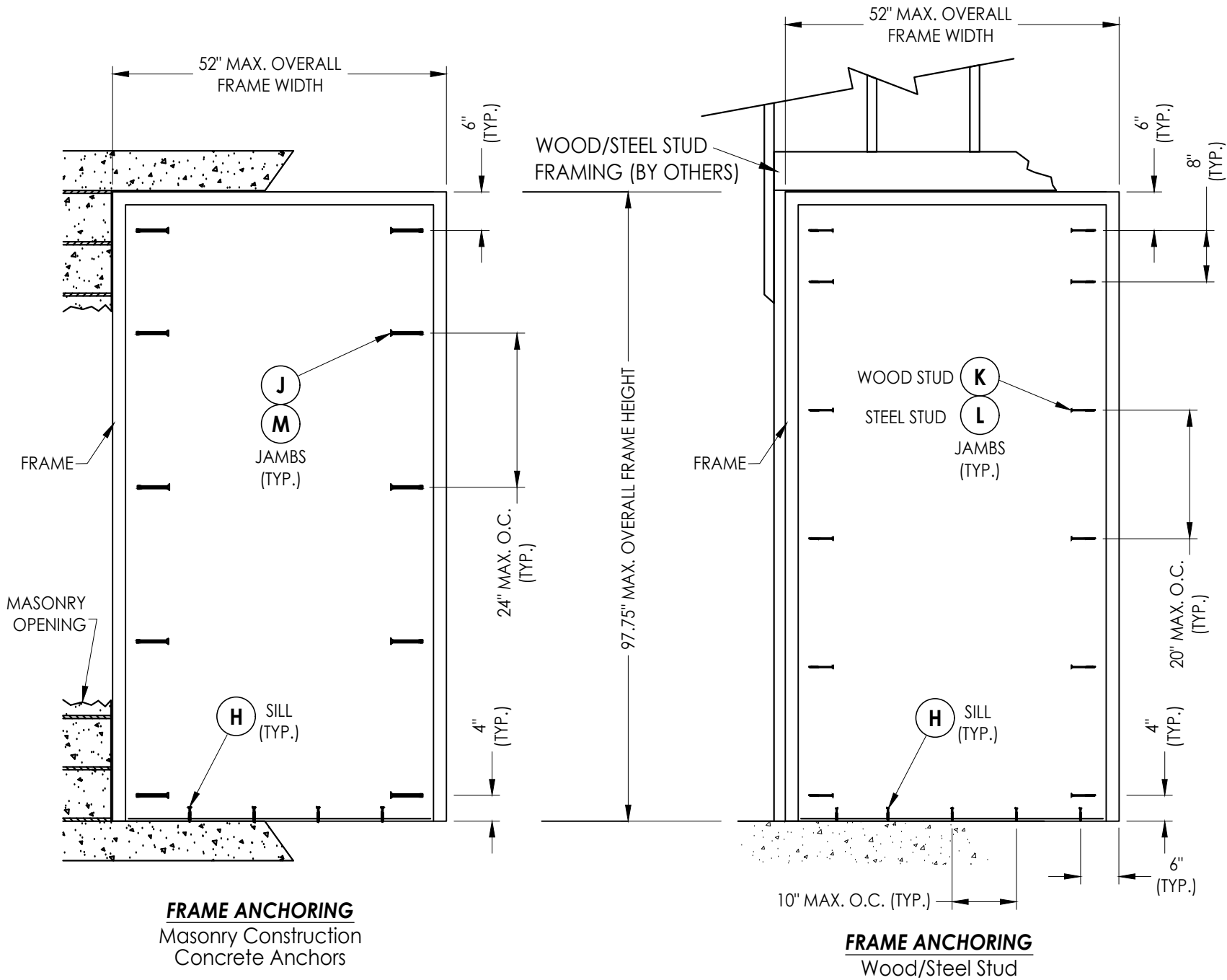
CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

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 License No. 9813	
PRODUCT: LS18 STEEL DOOR		PART OR ASSEMBLY: FRAME ANCHORING XX (7'-0" DOOR)	

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CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

8'-0" SINGLE DOOR

Documents Prepared By:
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P.E. No. 43409

PRODUCT:

LS18 STEEL DOOR

PART OR ASSEMBLY:

FRAME ANCHORING
X (8'-0" DOOR)

DATE

8/17/26

NO.

1

UPDATE TO 9TH ED. (2026) FBC

BY

LFS

DATE

4/29/26

SCALE:

N.T.S.

DWG. BY:

LFS

CHK. BY:

RW

DRAWING NO.:

FL-48188.1

SHEET

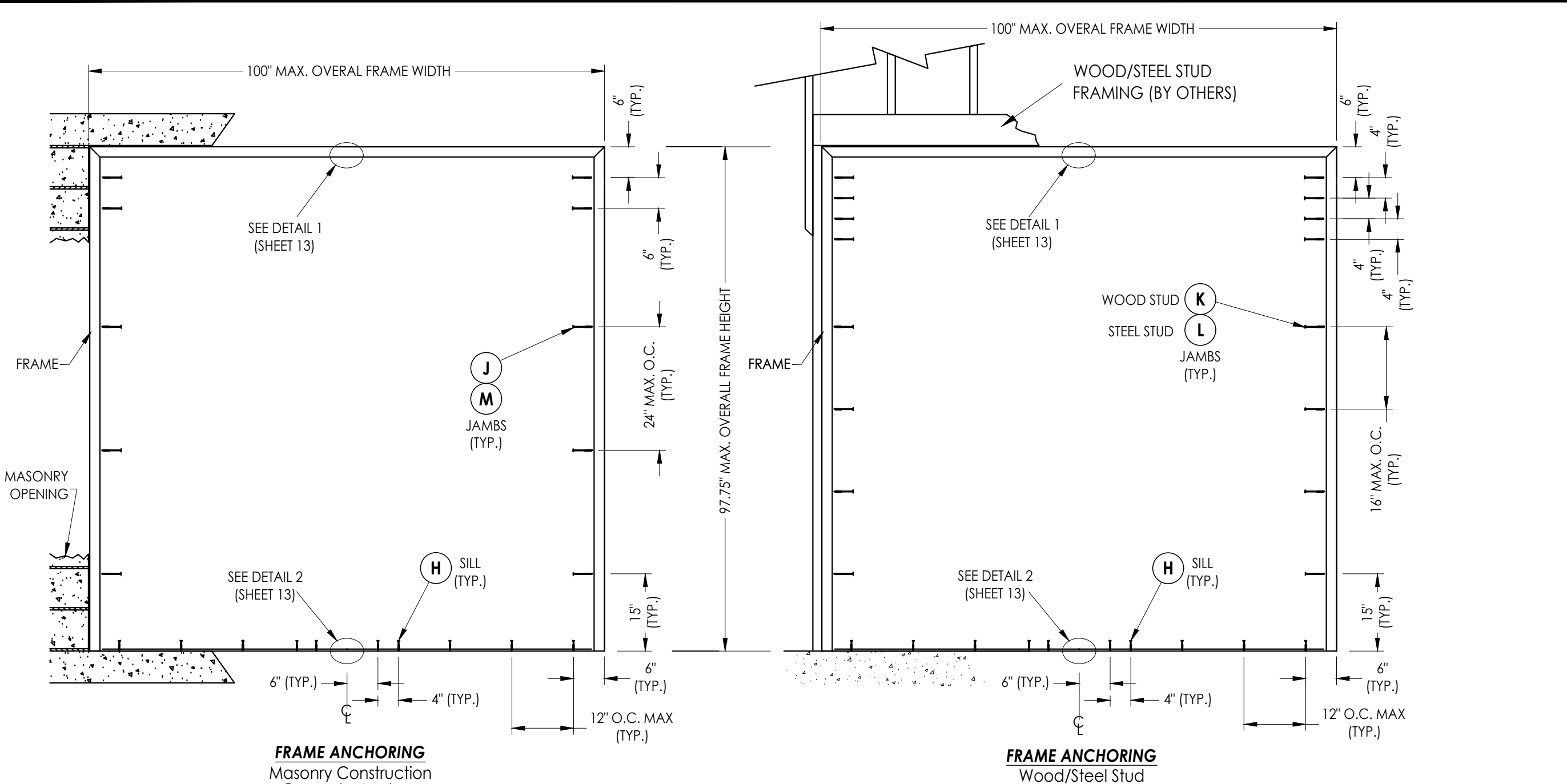
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OF

15

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8'-0" DOUBLE DOOR

CONCRETE ANCHOR NOTES:

- 1. Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- 2. Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	ULTRACON+® (DeWALT)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

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

LS18 STEEL DOOR

DATE: 4/29/26

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-48188.1

SHEET 12 OF 15

Part or Assembly:
FRAME ANCHORING
XX (8'-0" DOOR)

REVISIONS

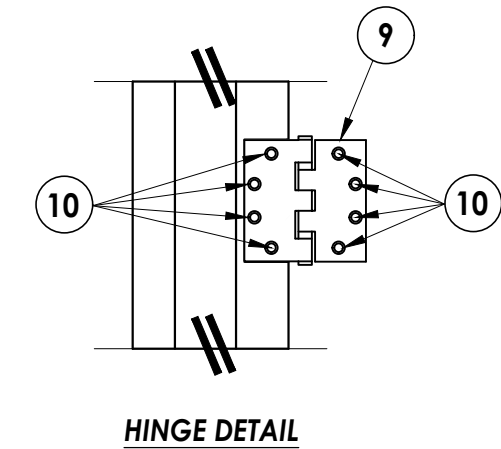
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DATE 8/17/26
UPDATE TO 9TH ED. (2026) FBC

DATE 4/29/26

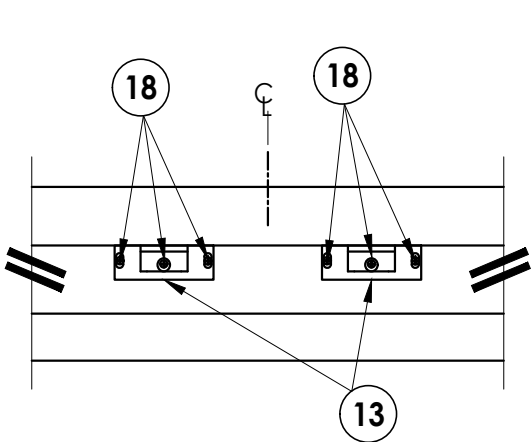
Building Consultants, Inc.
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Phone No.: 813.659.9197
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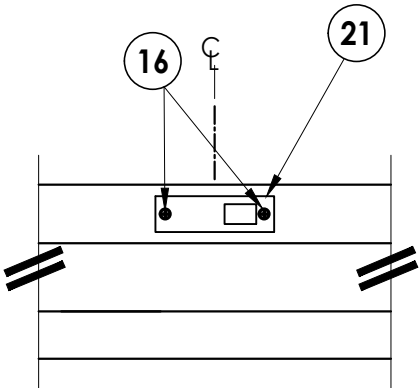
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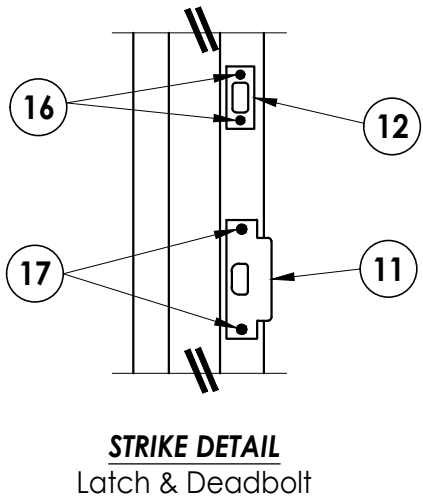
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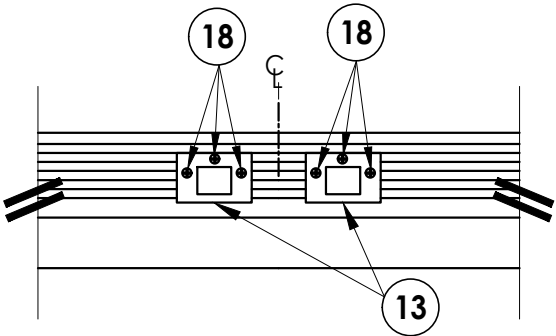
DETAIL 1
Vertical Surface Rod Strike Plate
@ Head



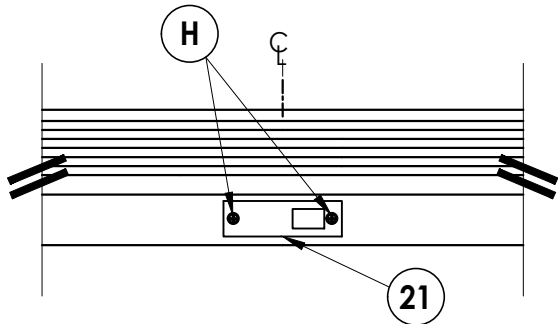
DETAIL 1
Flush Bolt Strike Plate @ Head
(Inactive Door Panel)



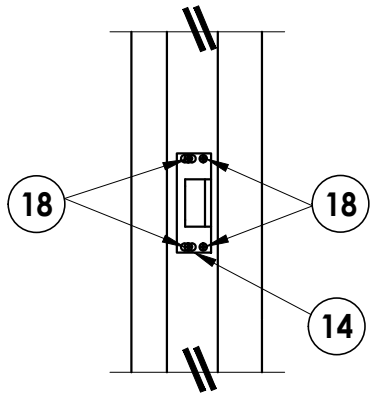
STRIKE DETAIL
Latch & Deadbolt



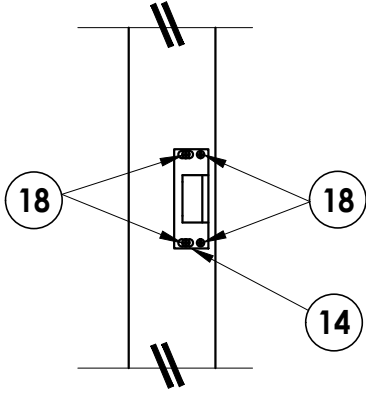
DETAIL 2
Vertical Surface Rod Strike Plate
@ Sill



DETAIL 2
Flush Bolt Strike Plate @ Sill
(Inactive Door Panel)



STRIKE DETAIL @ FRAME
Rim Panic Exit Device



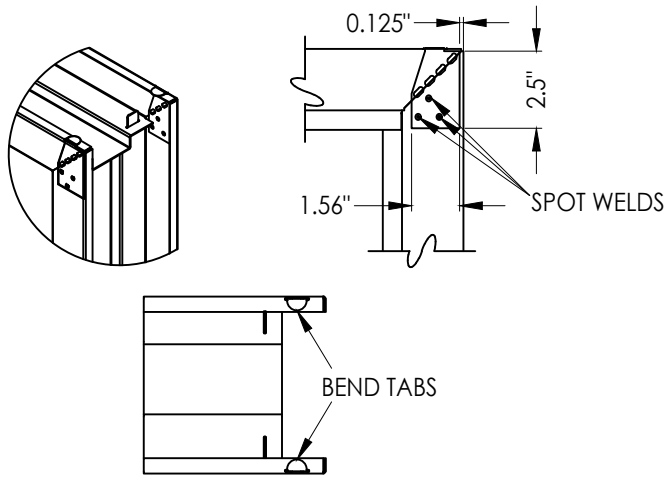
STRIKE DETAIL @ MULLION
Rim Panic Exit Device

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

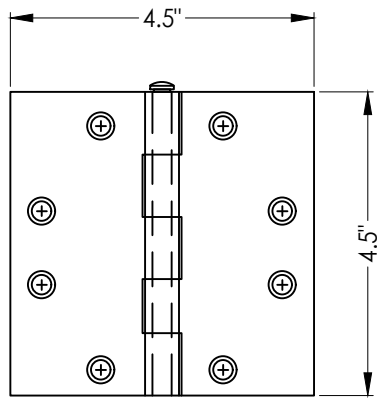
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Phone No.: 813.659.9197
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PRODUCT:		PART OR ASSEMBLY:	
LS18 STEEL DOOR		HARDWARE DETAILS	
NO.	DATE	UPDATE TO	BY
1	8/17/26	9TH ED. (2026)	LFS
REVISIONS			
DATE: 4/29/26			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-48188.1			
SHEET 13 OF 15			

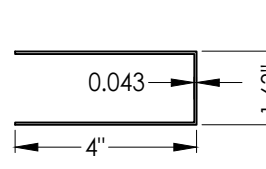
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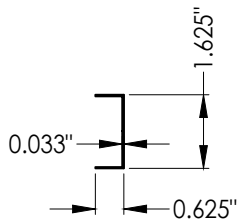
FRAME CORNER DETAILS



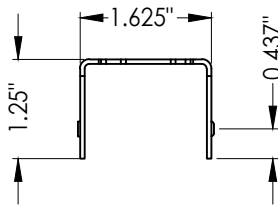
9 STEEL HINGE
0.134" THICK



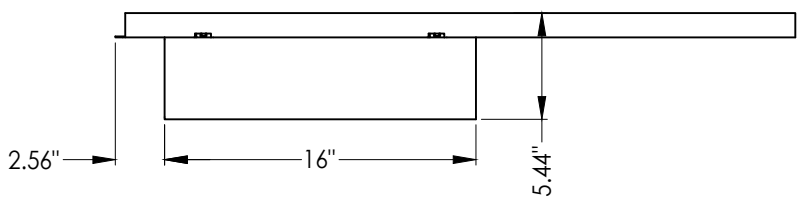
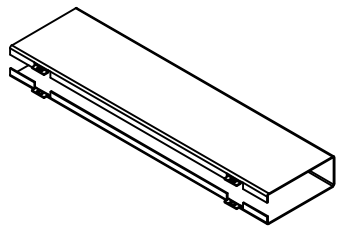
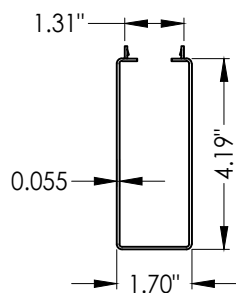
25 RIM PANIC BOX
18 GA. GALV. STEEL



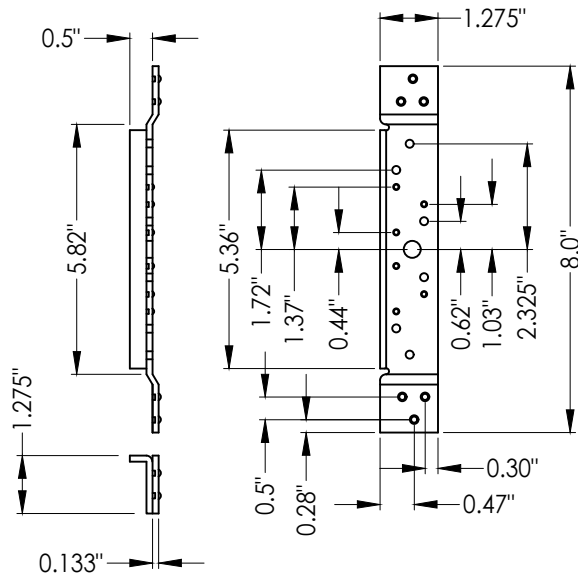
26 PERIMETER GLAZED CHANNEL REINFORCEMENT
20 GA. GALV. STEEL



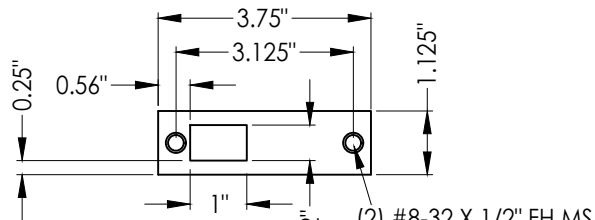
27 END CHANNEL
16 GA STEEL



24 CLOSER BOX
16 GA GALV. STEEL

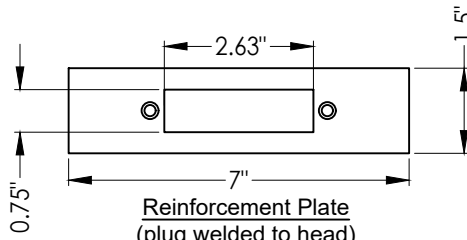


20 HINGE REINFORCEMENT
10 GA STEEL

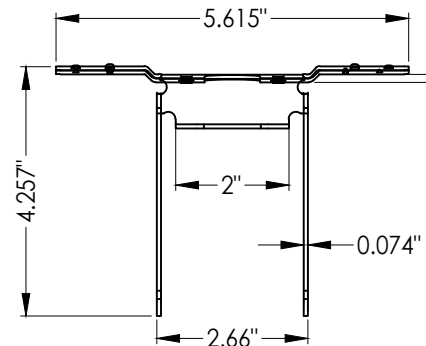
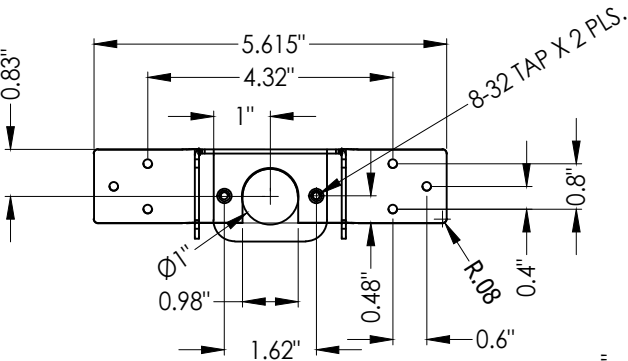


Reversible Flushbolt Plate

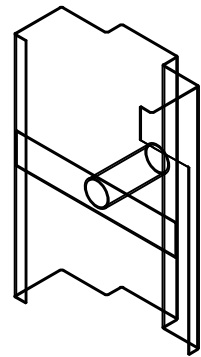
(2) #8-32 X 1/2" FH MS
(@ Head)



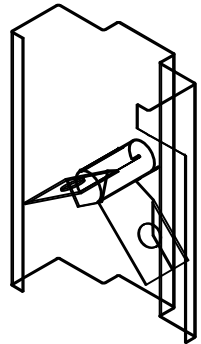
21 FLUSHBOLT FRAME REINFORCEMENT
16 GA STEEL



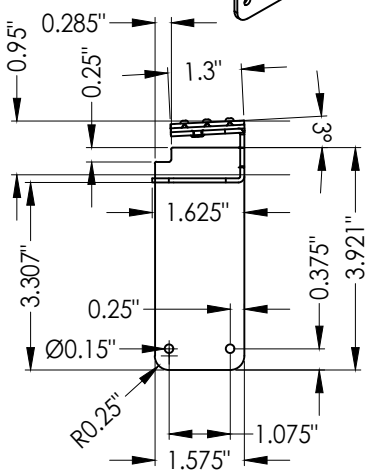
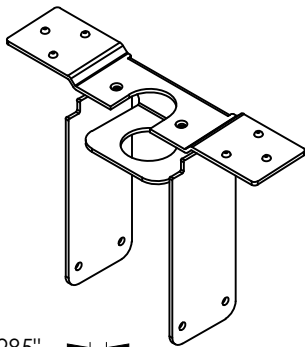
23 CYLINDRICAL LOCK REINFORCEMENT



30 EMA PIPE ANCHOR
18 GA STEEL



31 EMA BUTTERFLY ANCHOR
18 GA STEEL



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 License No. 9813

PRODUCT:
LS18 STEEL DOOR

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	BY	LFS	FBC	REVISIONS
1	8/17/26	DATE	UPDATE TO 9TH ED.	(2026)	

DATE: 4/29/26

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

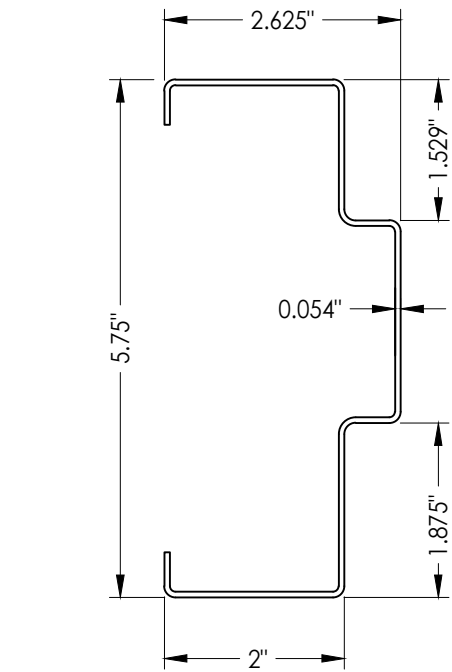
FL-48188.1

SHEET 14 OF 15

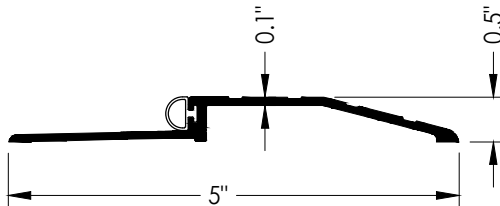
Z:\2023 FBC Drawings\Vision Hollow Metal\FL-48188 R0\FL-48188.1.dwg

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X STUD FRAMING (G>= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,050 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (2000 PSI MIN., GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 2-1/4" PFH DeWALT ULTRACON+ CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" X 5" PFH DYNABOLT SLEEVE ANCHOR (SEE CONCRETE ANCHOR TABLE)	STEEL
K	3/8" X 5" FH LAG SCREW (2-1/8" MIN. EMBEDMENT)	STEEL
L	3/8" Ø DeWALT DRIL-FLEX SMS (MUST PENETRATE MIN. 3 THREADS THRU STEEL STUD)	STEEL
M	3/8" X 5" LDT TAPCON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
X	STEEL STUD (0.125" MIN. THK, Fu = 50 ksi, Fy = 33 ksi)	STEEL
1	HOLLOW METAL FRAME (0.054" MIN. THK GALVANNEAL STEEL, Fy=54,000 PSI MIN.)	-
2	REMOVABLE MULLION (PDQ 9200M-11)	STEEL
2A	THERMAL GLAZING TRACK (VISION HOLLOW METAL)	STEEL
2B	THERMAL GLAZING STOP (VISION HOLLOW METAL)	STEEL
3	"Z" ASTRAGAL (VISION HOLLOW METAL)	STEEL
5	OUTSWING BUMP THRESHOLD (HAGER 477S)	ALUM
6	ASTRAGAL GASKET (HAGER 849S)	-
7	WEATHERSTRIP (HAGER 736 PRESS-ON)	-
8	FRAME WEATHERSTRIP (HAGER 875S)	-
9	STEEL HINGE (4.5" X 4.5") (HAGER)	STEEL
10	#12-24 x 1/2" FH MACHINE SCREW	STEEL
11	LATCH STRIKE PLATE	STEEL
12	DEADBOLT STRIKE PLATE	STEEL
13	VERTICAL SURFACE ROD STRIKE PLATE	STEEL
14	RIM PANIC BAR EXIT DEVICE STRIKE PLATE	STEEL
16	#8 x 3/4" FH SCREWS	STEEL
17	#12 x 13/16" FH SCREWS	STEEL
18	1/4-20 x 3/4" PH THREAD CUTTING MACHINE SCREWS	STEEL
20	HINGE REINFORCEMENT (10 GA.)	STEEL
21	FLUSH BOLT GUIDE (0.050" THK.)	STEEL
22	FLUSH BOLT FRAME REINFORCEMENT (16 GA)	STEEL
23	CYLINDRICAL LOCK REINFORCEMENT	STEEL
24	CLOSER BOX	STEEL
25	RIM PANIC BOX	STEEL
26	PERIMETER CHANNEL REINFORCEMENT	STEEL
27	END CHANNEL	STEEL
30	EMA PIPE ANCHOR (18 GA)	STEEL
31	EMA BUTTERFLY ANCHOR (18 GA)	STEEL
40	GLAZED STEEL DOOR PANEL (7'-0" DOOR)	STEEL
41	GLAZED STEEL DOOR PANEL (8'-0" DOOR)	STEEL

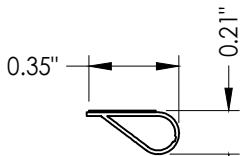
CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a
saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.



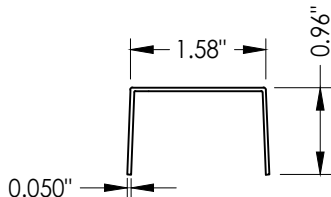
1 HOLLOW METAL FRAME



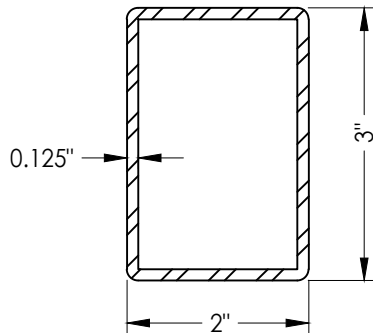
5 OUTSWING BUMP THRESHOLD
HAGER 477S



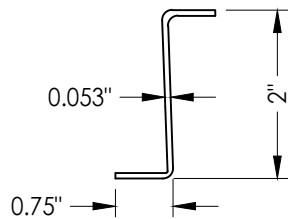
7 WEATHERSTRIP



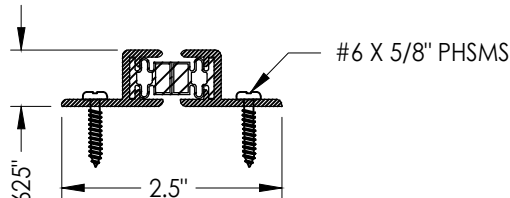
22 FLUSHBOLT GUIDE



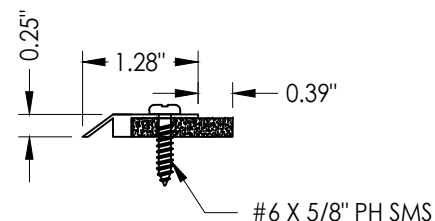
2 MULLION
PDQ 9200M-11 SERIES



3 "Z" ASTRAGAL



6 ASTRAGAL GASKET



8 FRAME WEATHERSTRIP

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DRAWING NO.:

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SHEET 15 OF 15