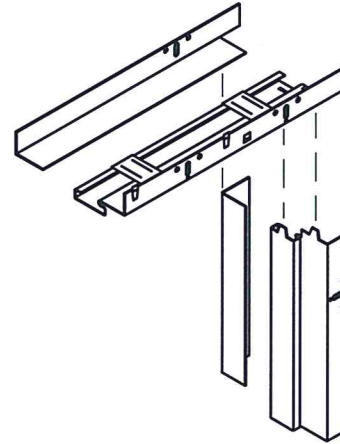




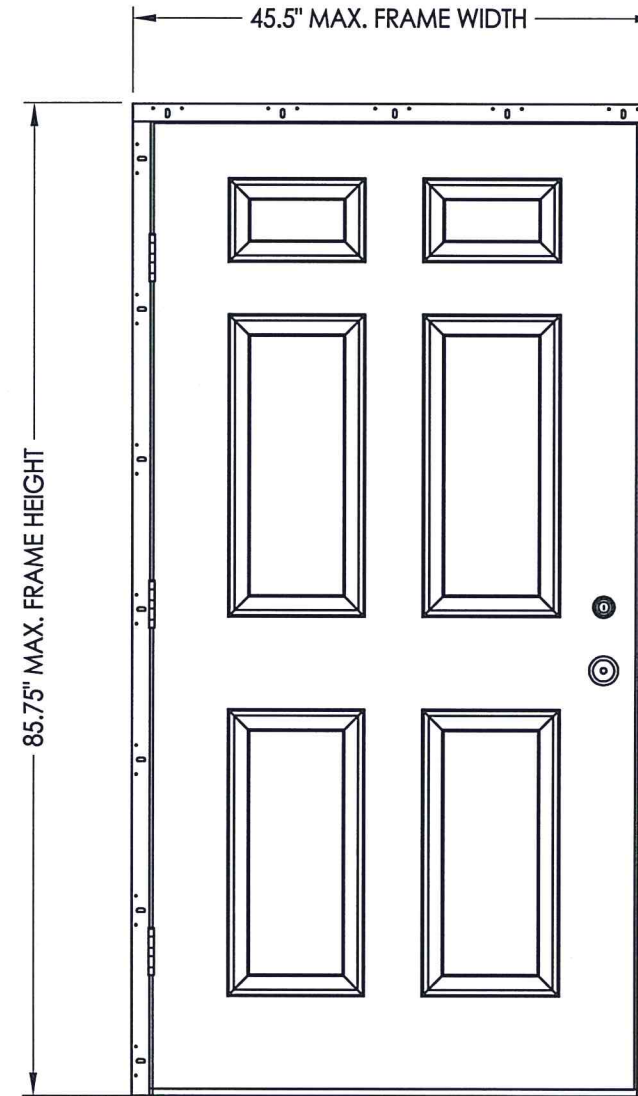
AMERICA'S DOORMAKER
631 N. FIRST ST. WEST BRANCH, MI 48661

TAYLOR OPAQUE STEEL EDGE DOOR UTILIZING ADJUSTABLE STEEL DOOR FRAME

IN SWING / OUT SWING
"IMPACT"



ADJUSTABLE FRAME
REDIFLEX®



OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
45.5" X 85.75"	+ 60.0	- 60.0

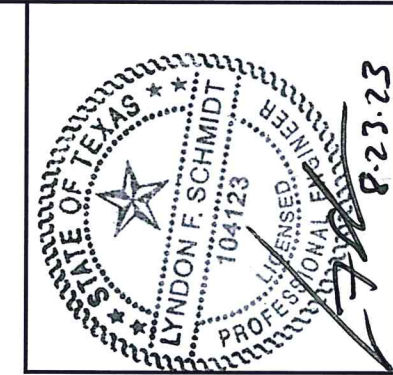
EVALUATED FOR USE IN THE STATE OF TEXAS

The Steel Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. This product meets missile level "D" as defined in ASTM E 1996.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

TABLE OF CONTENTS

SHEET#	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Steel Frame Details
4	Horizontal Cross Sections
5	Vertical Cross Sections
6	Buck & Frame Anchoring
7	Bill of Materials & Components



Documents Prepared By: Lyndon F. Schmidt, P.E.
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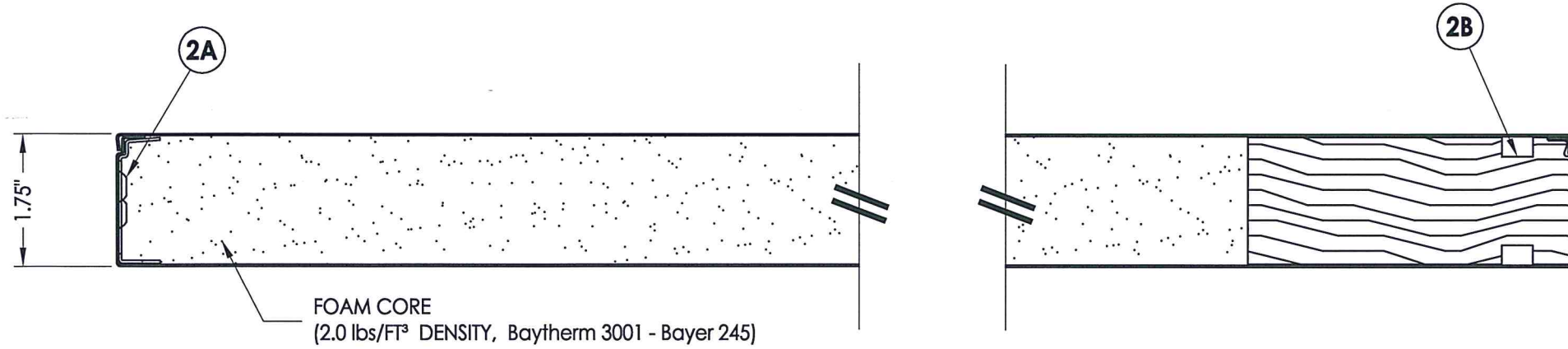
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

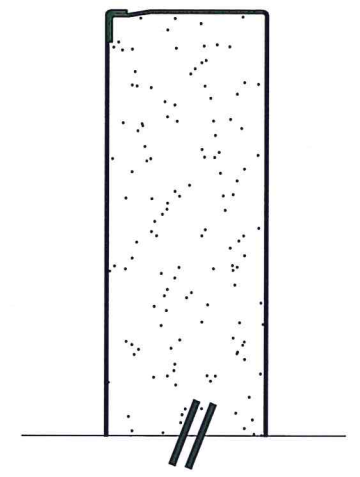
PRODUCT: TAYLOR STEEL DOOR
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURE & GENERAL NOTES

NO.	DATE	REVISIONS
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		LFS
		BY

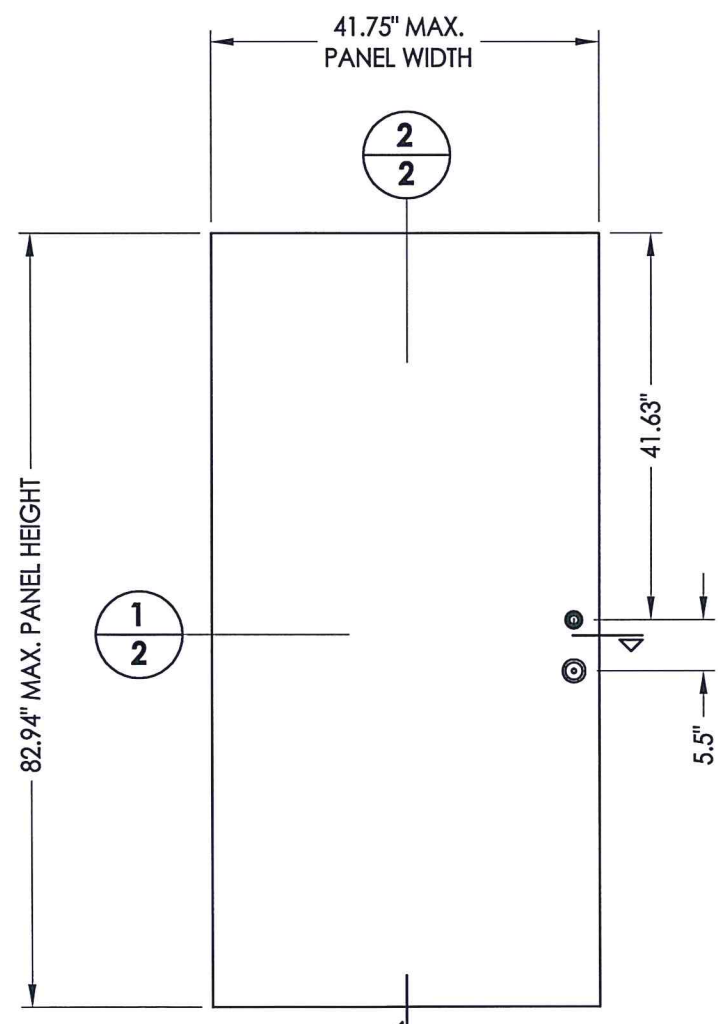
DATE: 3/08/18
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4784
SHEET 1 OF 7



1
2 HORIZONTAL CROSS SECTION

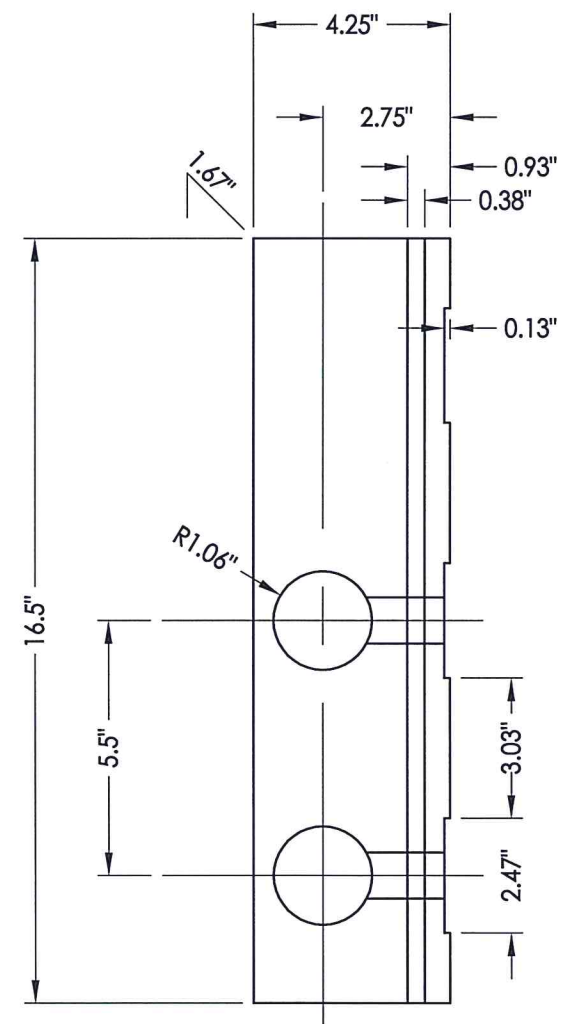


2
2 VERTICAL CROSS SECTION

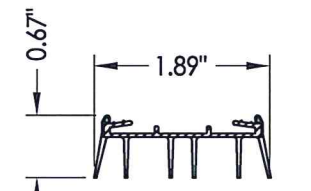


40 DOOR PANEL
Steel (Taylor)

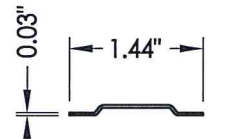
STEEL DOOR SKIN: MIN. 0.020" THK.
GALVANIZED STEEL (Fy = 33,000 PSI MIN.)



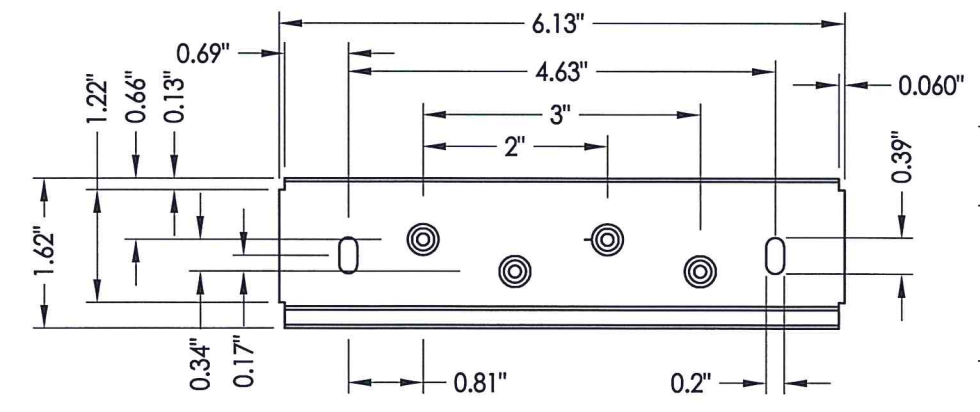
2B LOCK BLOCK
Wood



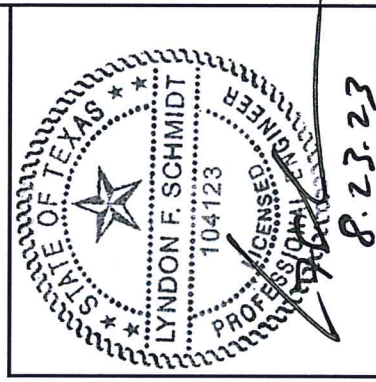
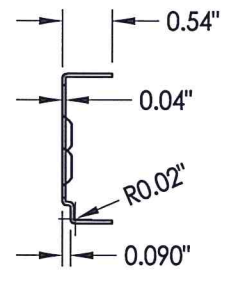
2D DOOR SWEEP
Vinyl



2C RETAINER
Door sweep



2A HINGE REINFORCEMENT



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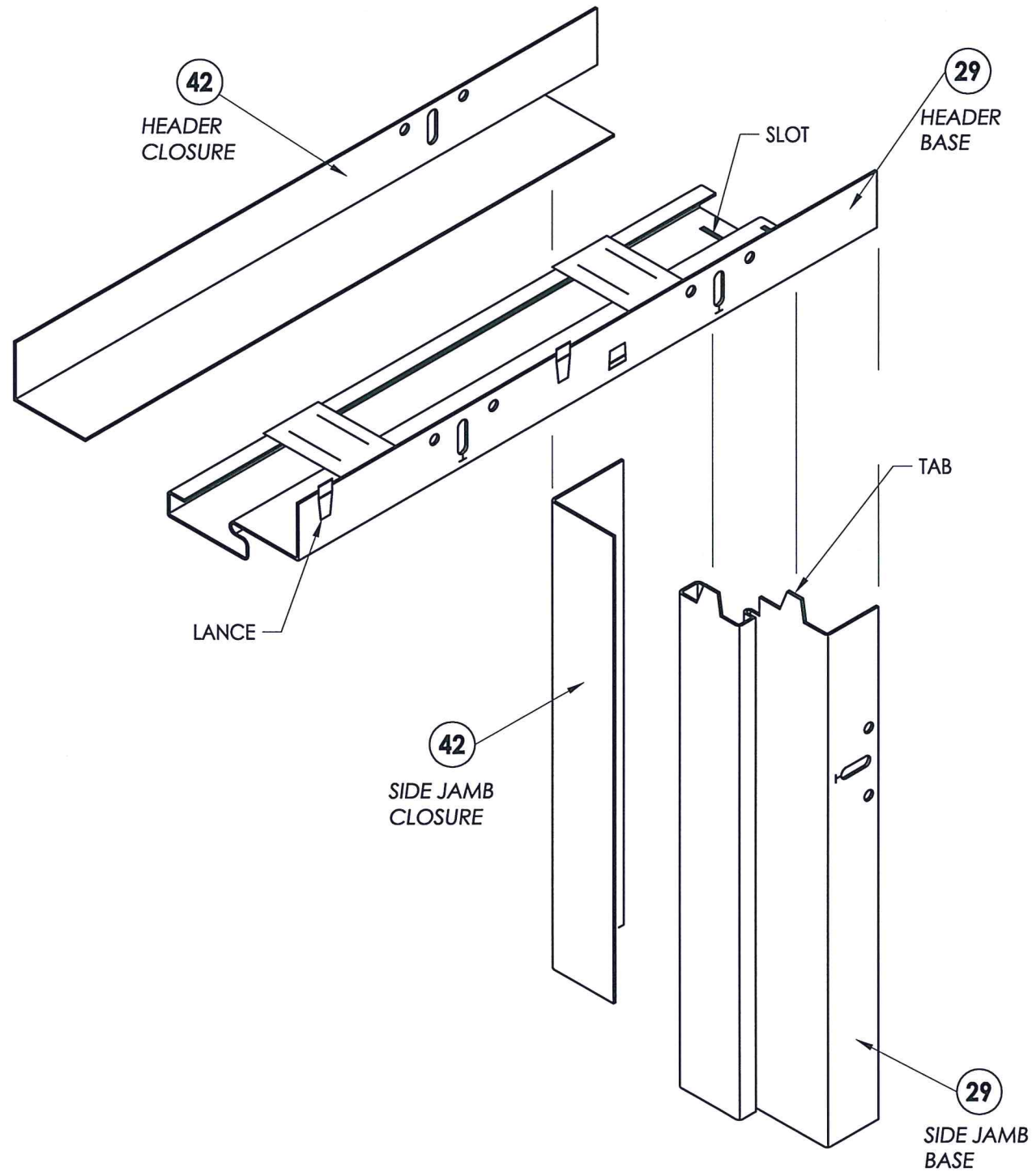
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	TAYLOR STEEL DOOR
PART OR ASSEMBLY:	DOOR PANEL DETAILS

NO.	DATE	REVISIONS
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		LFS
		BY

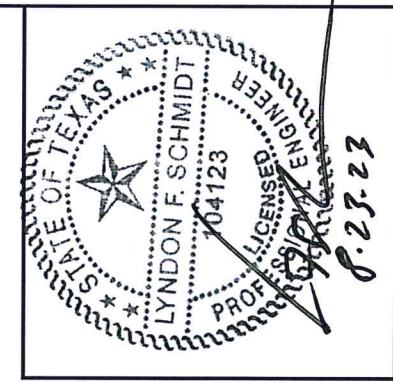
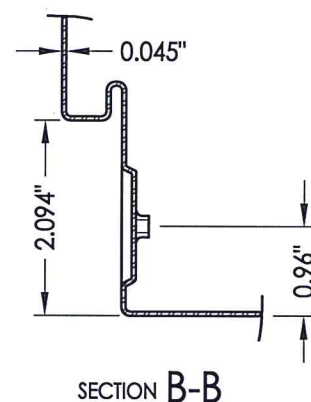
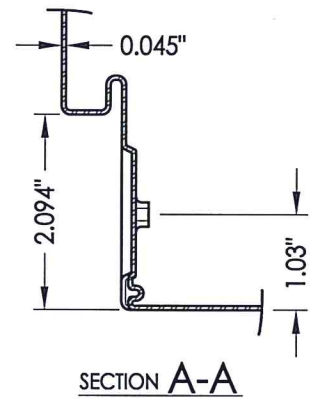
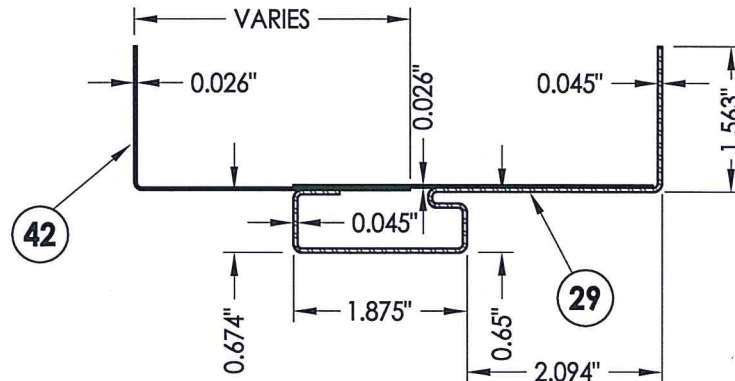
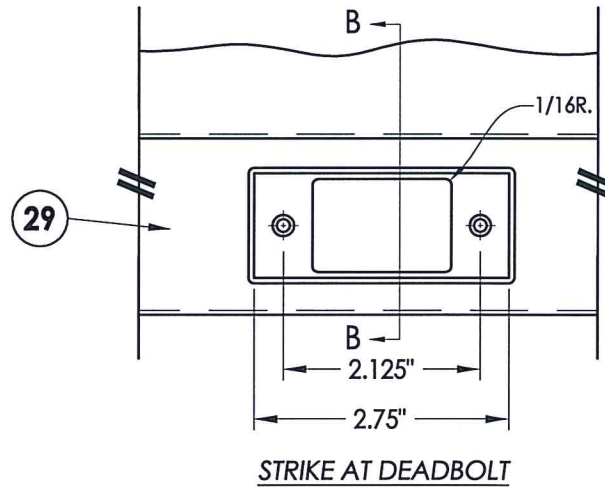
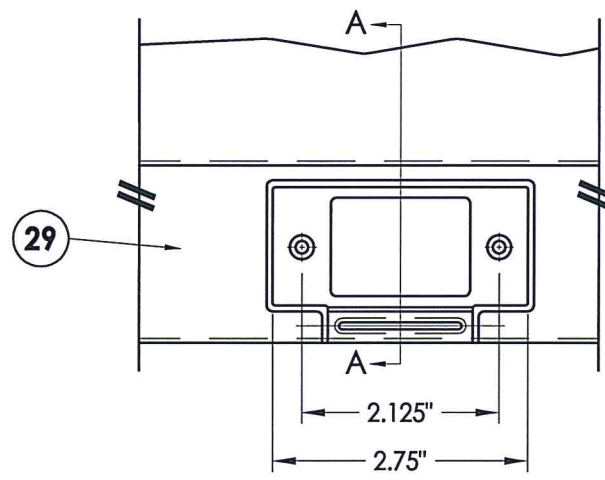
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4784
SHEET	2 OF 7

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NOTES:

1. HEADER AND SIDE BASE JAMB (29) MINIMUM 18 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAME DO NOT MEET AIR AND WATER CRITERIA.



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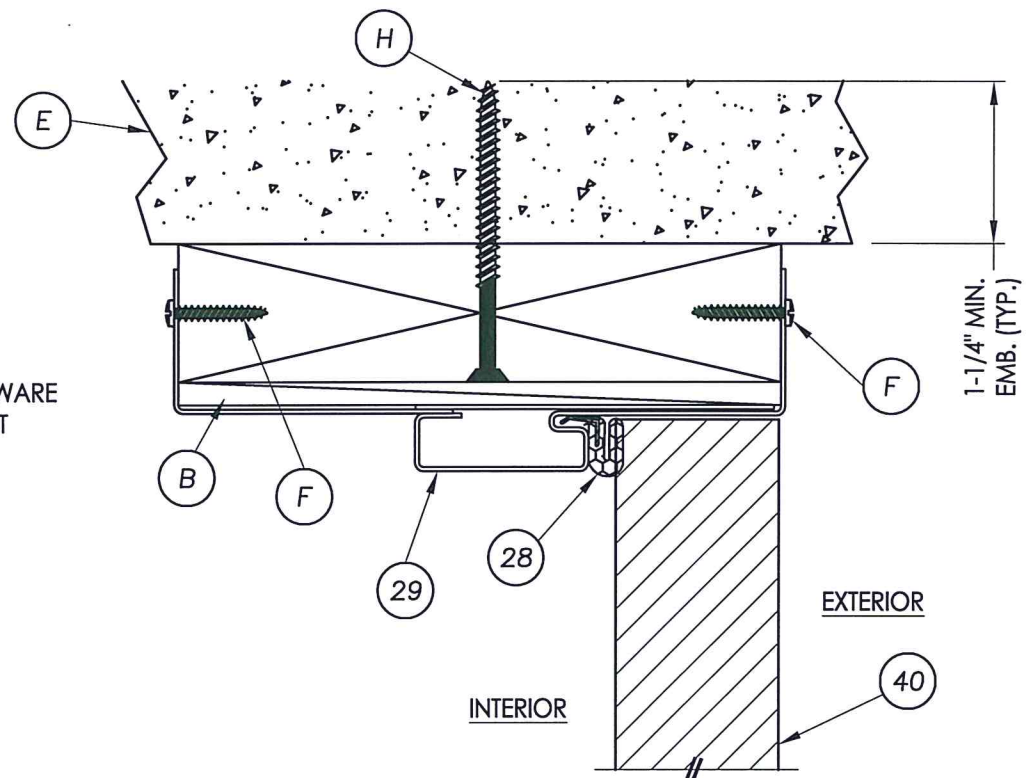
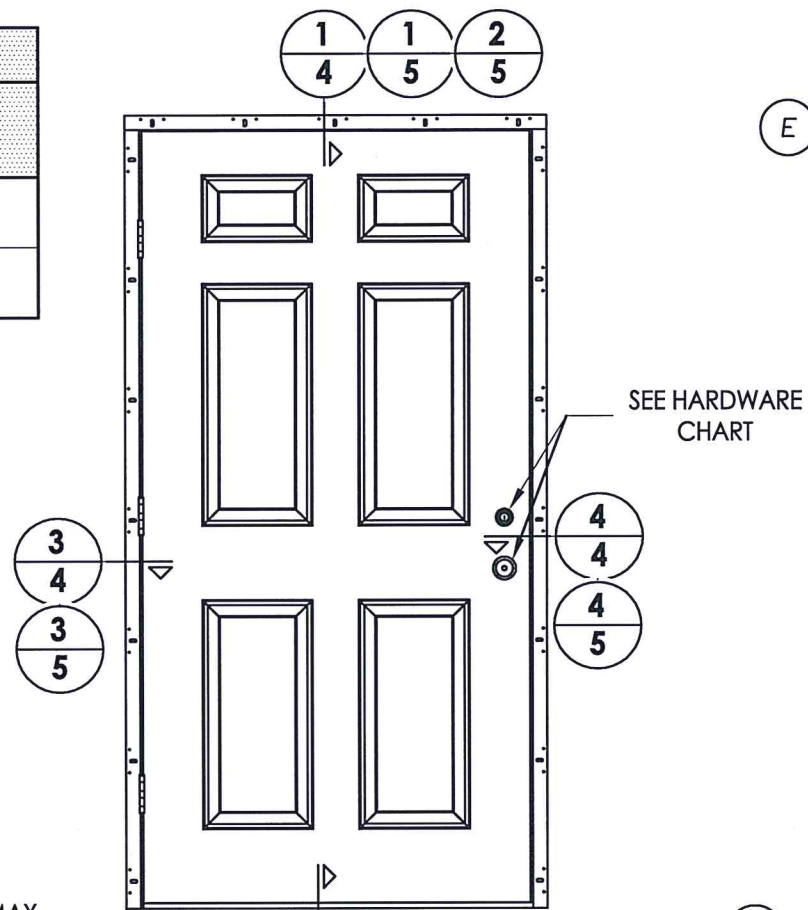
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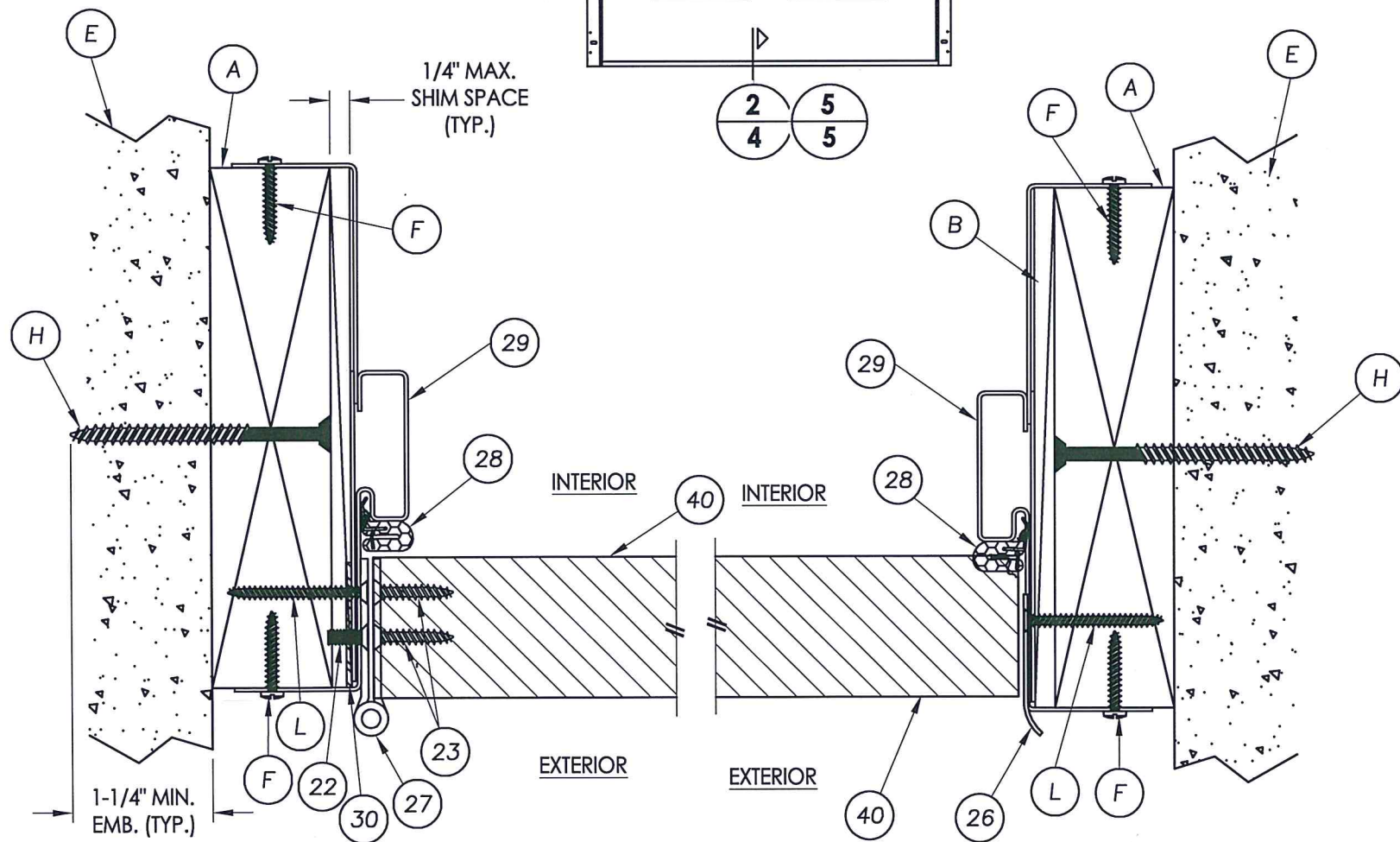
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PART OR ASSEMBLY:		STEEL FRAME DETAILS	
NO.	DATE	REVISIONS	BY
1	8/23/23	UPDATE TO 2018 IBC/IRC CODE	LFS
DATE:		3/08/18	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		TX-4784	
SHEET		3 OF 7	

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HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: "F" SERIES DEADBOLT: "B" SERIES (B60/62)

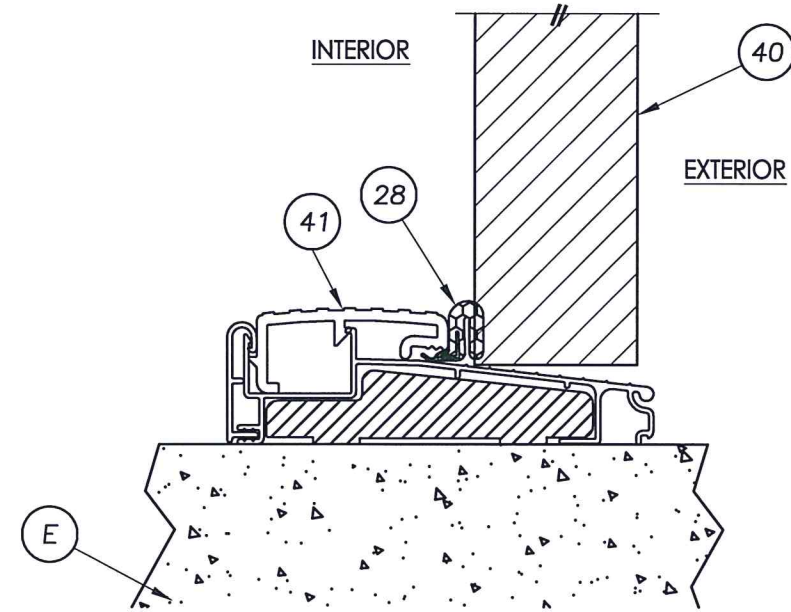


1
4 **VERTICAL CROSS SECTION**
2x Buck Construction



3
4 **HORIZONTAL CROSS SECTION**
2x Buck Construction

4
4 **HORIZONTAL CROSS SECTION**
2x Buck Construction



2
4 **VERTICAL CROSS SECTION**
2x Buck Construction
Outswing Threshold



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TAYLOR STEEL DOOR

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
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LFS		BY

DATE: 3/08/18

SCALE: N.T.S.

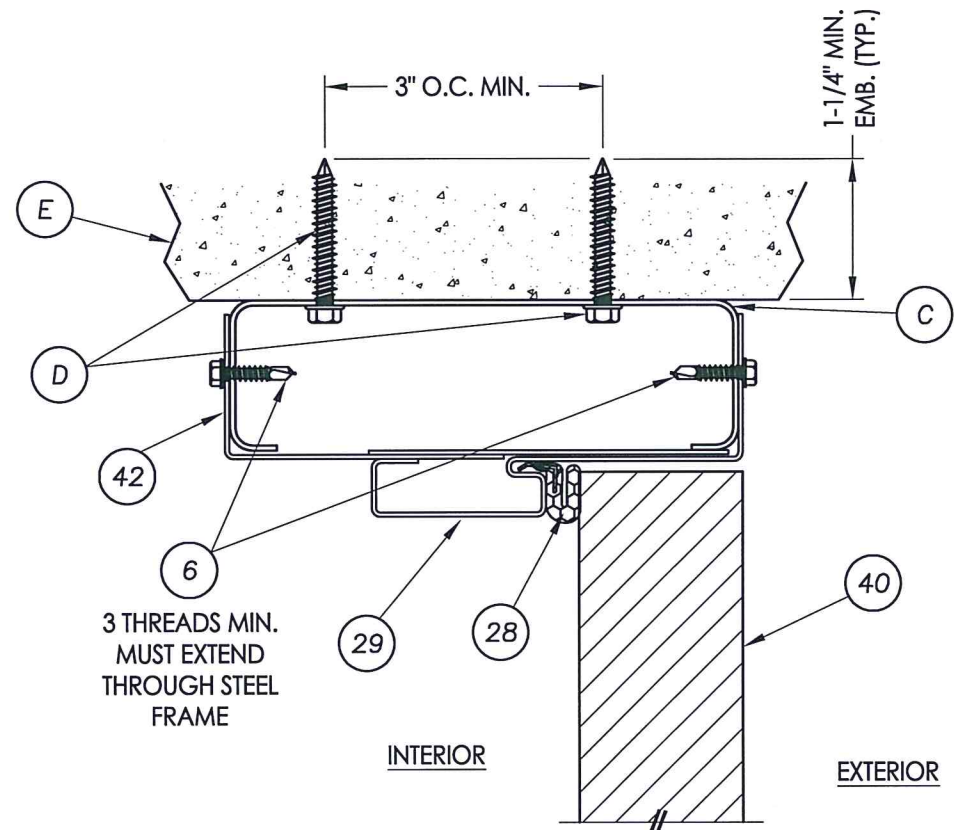
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CHK. BY: LFS

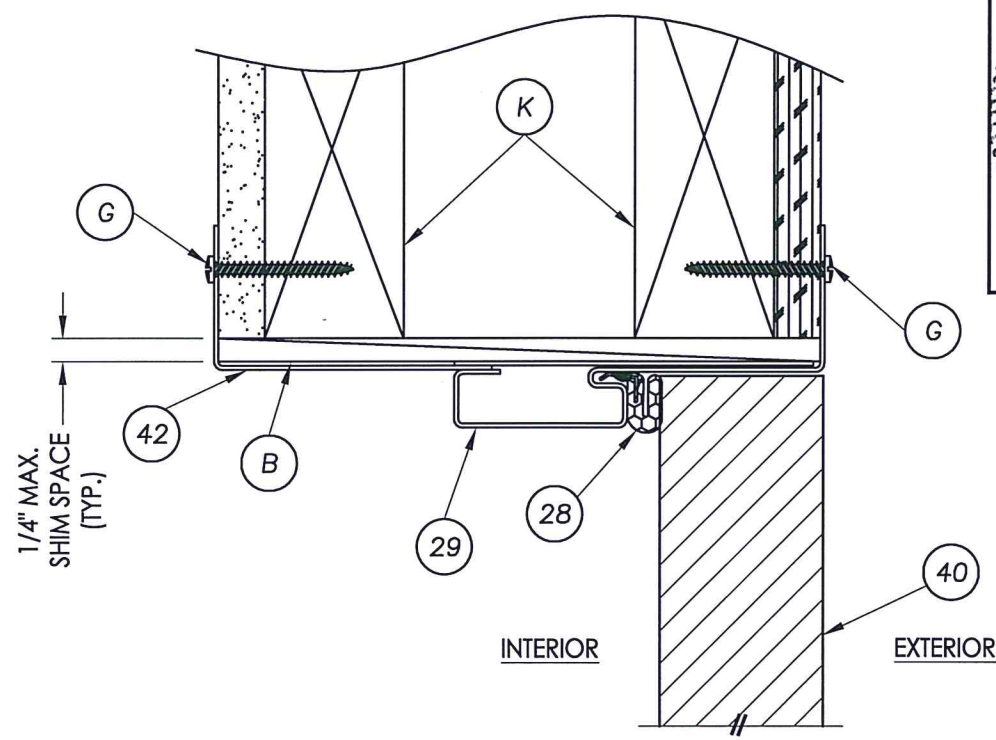
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SHEET 4 OF 7

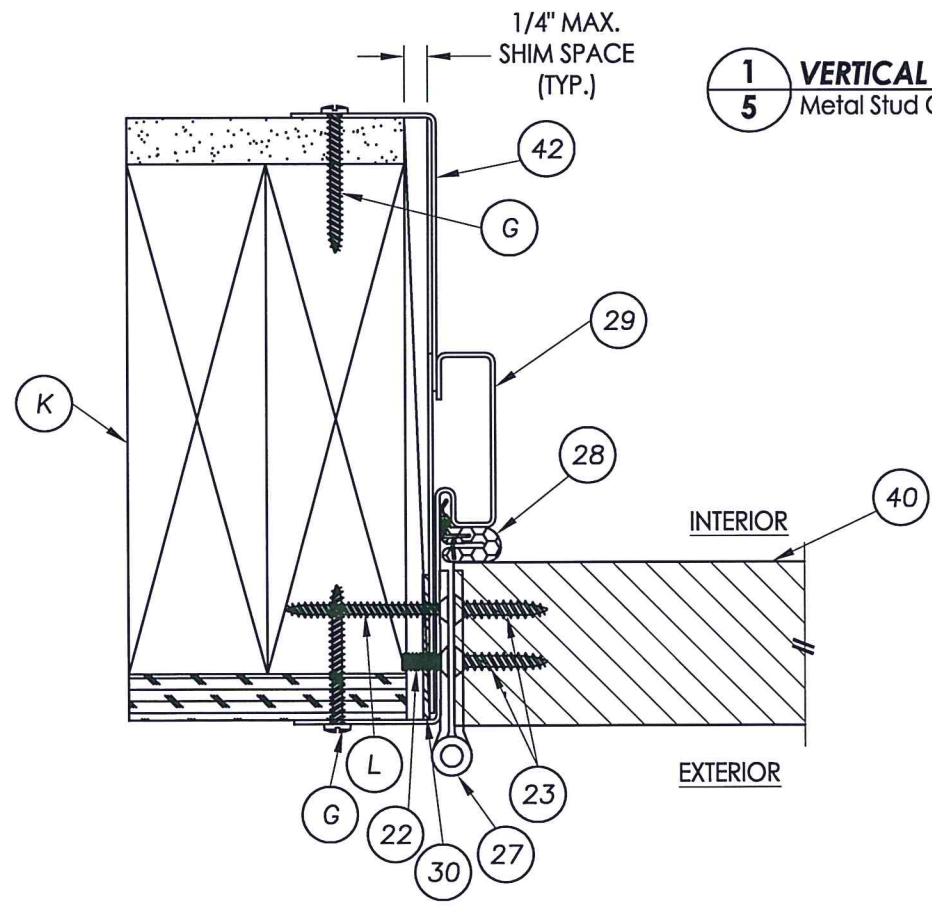
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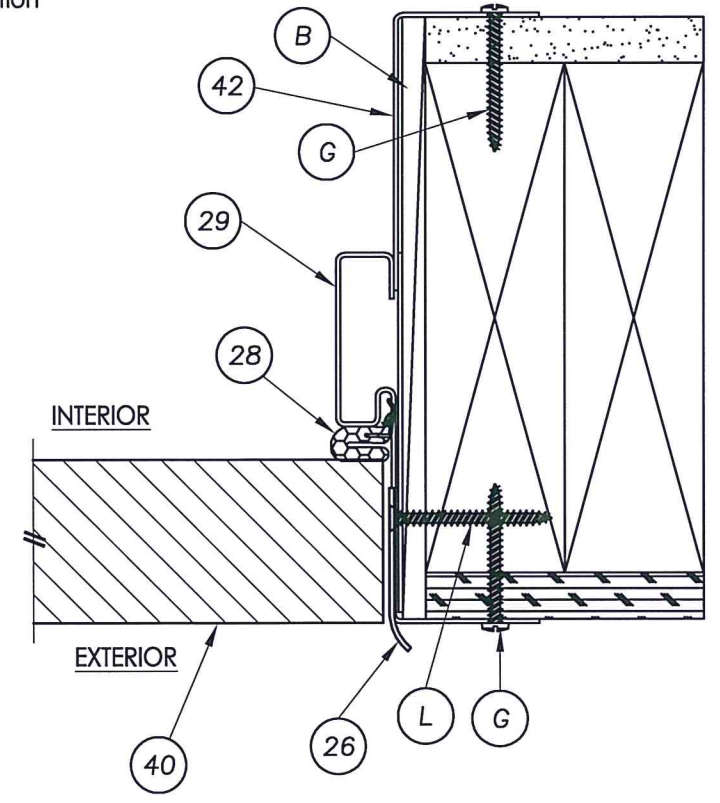
1 VERTICAL CROSS SECTION
5 Metal Stud Construction



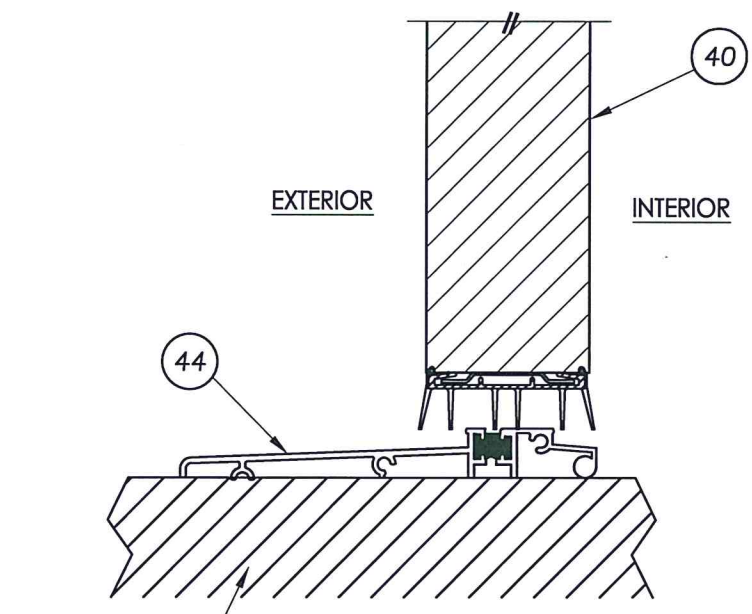
2 VERTICAL CROSS SECTION
5 2x Stud Construction



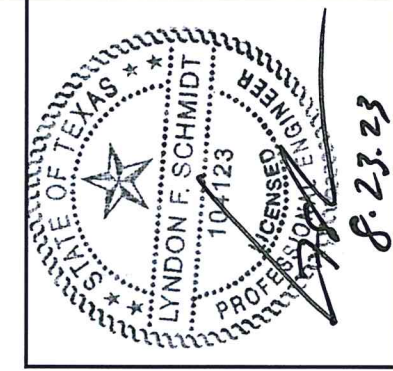
3 HORIZONTAL CROSS SECTION
5 2x Stud Construction



4 HORIZONTAL CROSS SECTION
5 2x Stud Construction



5 VERTICAL CROSS SECTION
5 2x Stud Construction Inswing Threshold



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CERTIFICATE OF REGISTRATION # F-11852

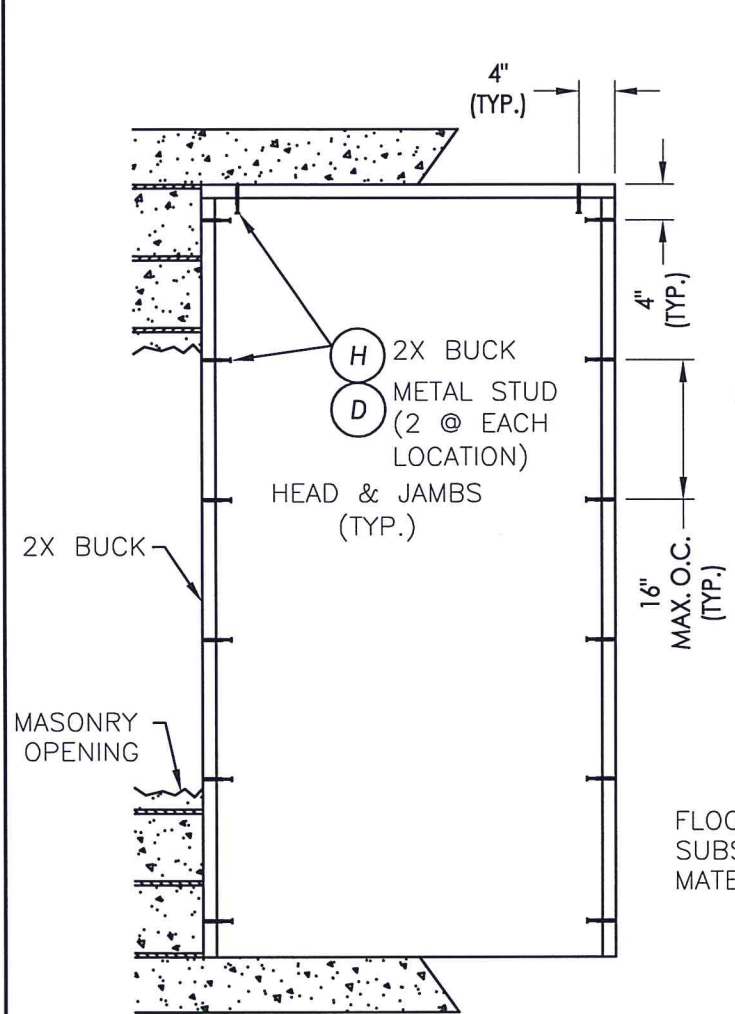
PRODUCT: TAYLOR STEEL DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTION

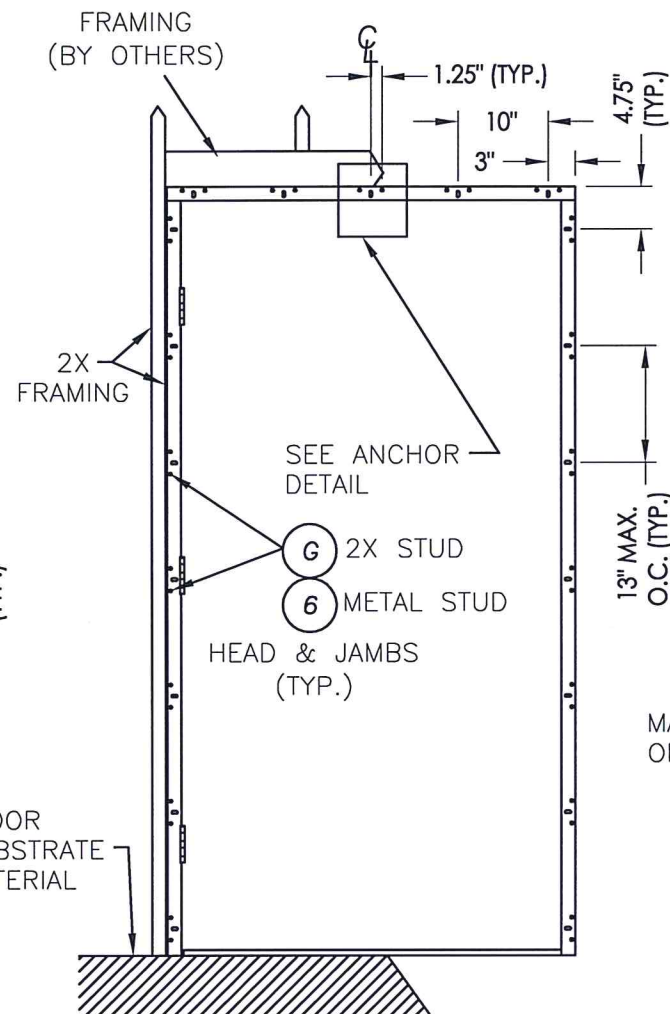
NO.	DATE	REVISIONS	LFS	BY
1	8/23/23	UPDATE TO 2018 IBC/IRC CODE	LFS	BY

DATE: 3/08/18
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4784
SHEET 5 OF 7

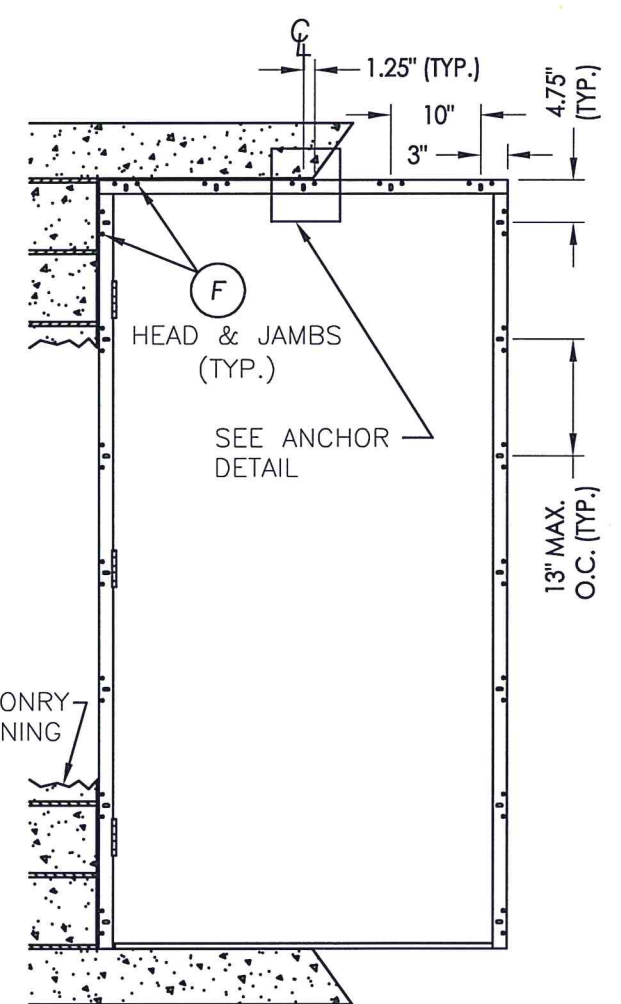
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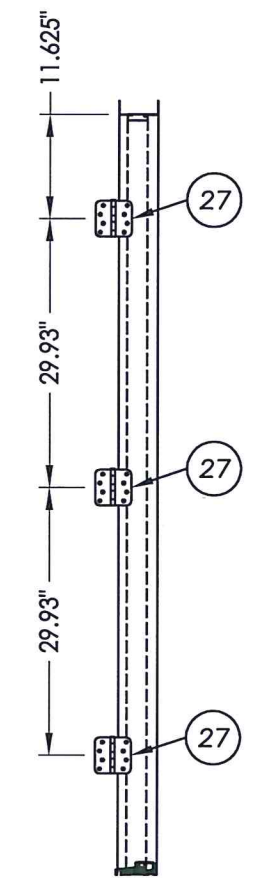
BUCK ANCHORING



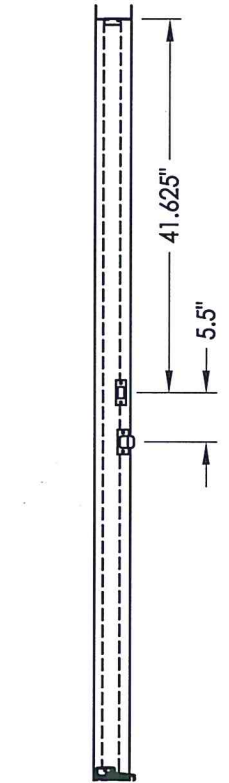
FRAME ANCHORING - STUD



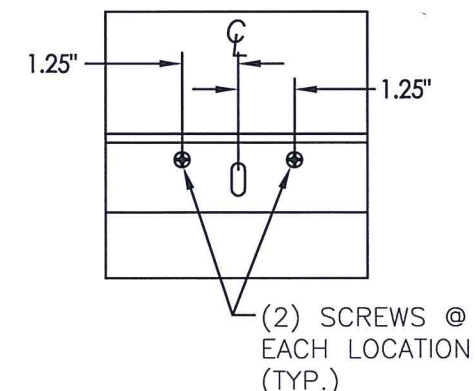
FRAME ANCHORING - 2X BUCK



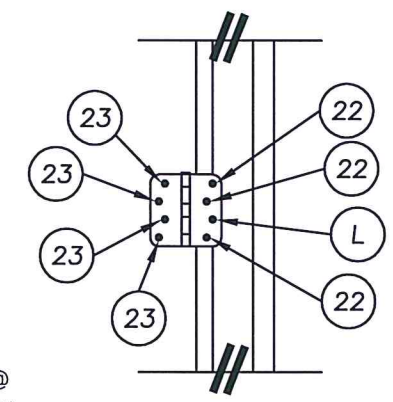
HINGE DETAILS



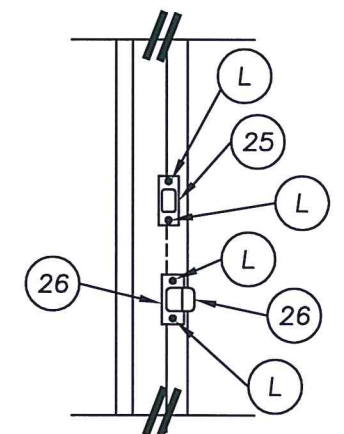
STRIKE PLATE DETAILS



ANCHOR DETAIL



HINGE DETAIL



STRIKE PLATE DETAIL

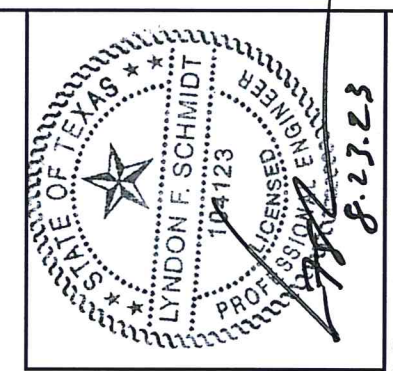
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the comers 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"	2-1/2"	3"
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.



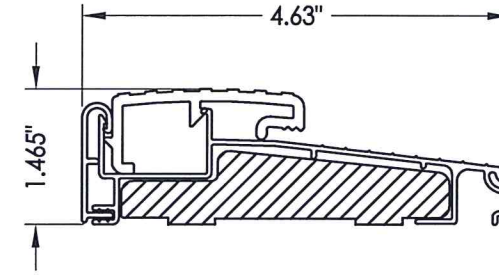
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

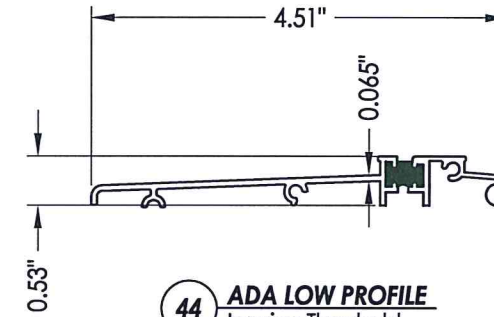
PRODUCT: TAYLOR STEEL DOOR	
PART OR ASSEMBLY: BUCK & FRAME ANCHORING	
NO.	DATE
1	8/23/23
UPDATE TO 2018 IBC/IRC CODE	
LFS	BY
REVISIONS	
DATE:	3/08/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4784
SHEET	6 OF 7

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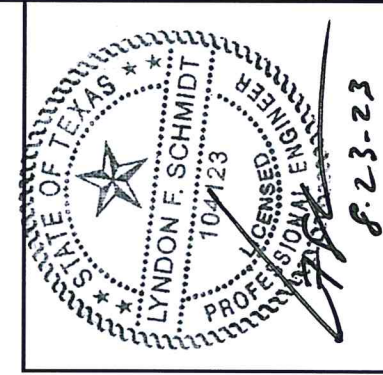
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X BUCK (G >= 0.42)	WOOD
B	1/4" MAX. SHIM SPACE	WOOD
C	METAL STUD (SSMA STUD 550S162-54, Fy = 33 ksi, Fu = 45 ksi)	STEEL
D	3/16" X 1-3/4" HWH ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8 X 1" PPH SCREW (7/8" MIN. EMBEDMENT)	STEEL
G	#8 X 1-1/2" PPH SCREW (7/8" MIN. EMBEDMENT)	STEEL
H	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
K	2X FRAMING (G >= 0.42)	WOOD
L	#8 X 1-3/4" PFH SCREW	STEEL
6	#10 X 3/4" HWH SELF-DRILLING TEK SCREW	STEEL
22	#10 X 1/2" THREAD-CUTTING MACHINE SCREW	STEEL
23	#10 X 1" PFH SMS	STEEL
25	DEADBOLT STRIKE PLATE	STEEL
26	LATCH STRIKE PLATE COVERING & BACKING PLATE	STEEL
27	4" X 4" HINGE	STEEL
28	WEATHERSTRIP	FOAM
29	REDIFLEX JAMB BASE 18 GA. MIN. (.045" GALV. STEEL) BY DUNBARTON	GALV./STEEL
30	HINGE REINFORCENT 0.070" THK.	GALV./STEEL
40	TAYLOR STEEL DOOR - SEE DOOR PANEL DETAILS	-
41	OUTSWING THRESHOLD	ALUM./WOOD
42	REDIFLEX JAMB CLOSURE 22 GA. MIN. (.026" GALV. STEEL) BY DUNBARTON	GALV./STEEL
44	INSWING THRESHOLD	ALUMINUM



41 OUTSWING THRESHOLD



44 ADA LOW PROFILE Inswing Threshold



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Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		TAYLOR STEEL DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS AND COMPONENTS	
NO.	DATE	DESCRIPTION	BY
1	8/23/23	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			
DATE: 3/08/18			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4784			
SHEET 7 OF 7			