



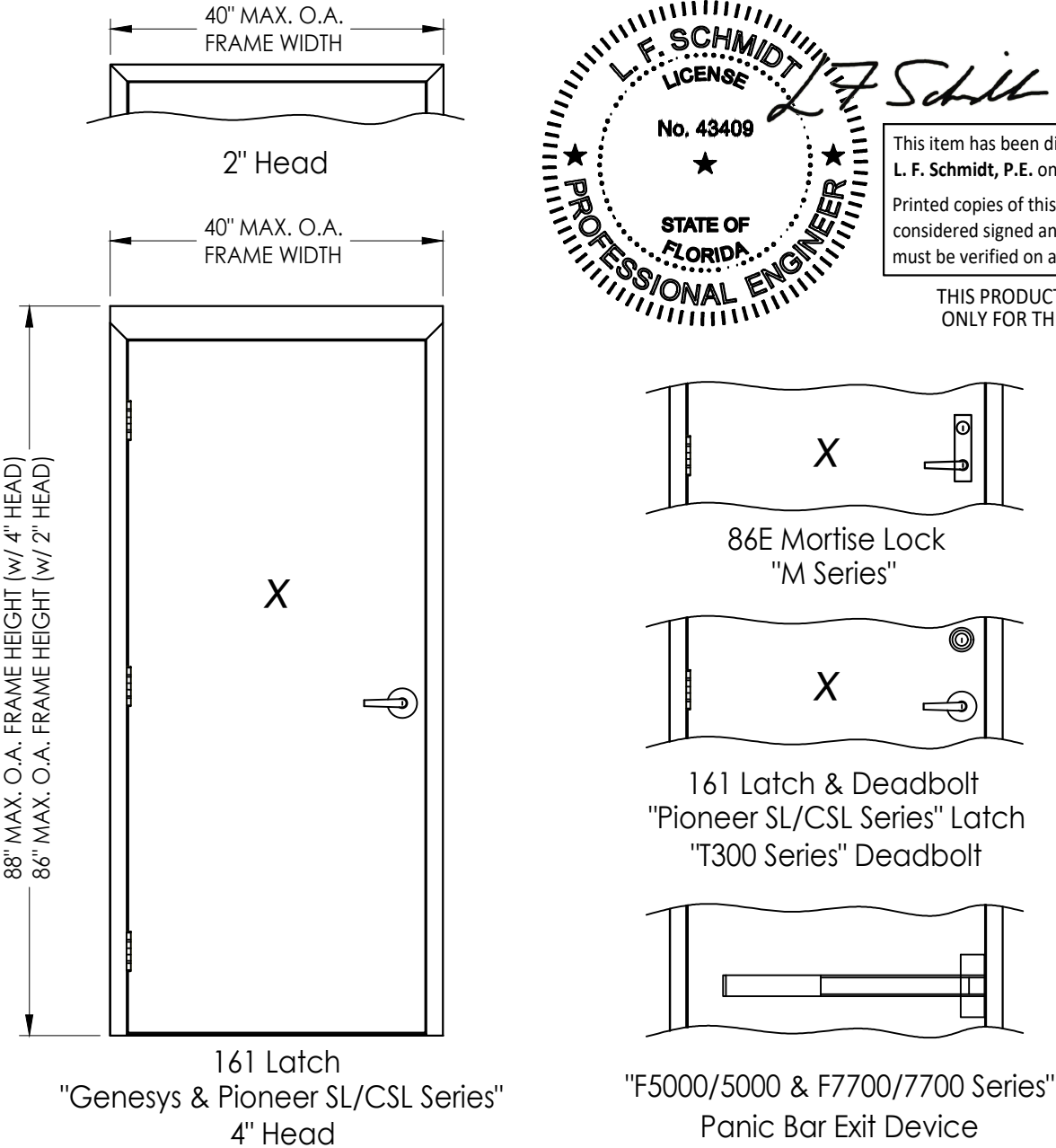
STEEL DOOR & FRAME SYSTEMS, INC.

DKS SERIES 1800
STEEL COMMERCIAL SINGLE DOOR
INSWING / OUTSWING
"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding 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 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.
4. This door achieves a Class I Stiffness classification per Section 8.2.2 of ANSI A250.13.
5. 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 elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Frame anchoring
6	Frame anchoring details
7	Components
8	Bill of materials and components



MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
40.0" x 88.0"	161 LATCH "Pioneer SL/CSL Series"	+55.0	-55.0	+55.0	-55.0
40.0" x 88.0"	161 LATCH & DEADBOLT "Pioneer SL/CSL & T300 Series"	+55.0	-55.0	+55.0	-55.0
40.0" x 88.0"	161 LATCH "Genesys Series"	+70.0	-70.0	+70.0	-70.0
40.0" x 88.0"	PANIC BAR EXIT DEVICE "F5000/5000 Series"	N/A	N/A	+50.0	-50.0
40.0" x 88.0"	PANIC BAR EXIT DEVICE "F7700/7700 Series"	N/A	N/A	+70.0	-70.0
40.0" x 88.0"	86E Mortise Lock "M Series"	+80.0	-80.0	+80.0	-80.0

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

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

DATE: 3/21/22

SCALE: N.T.S.

DWG. BY: LFS

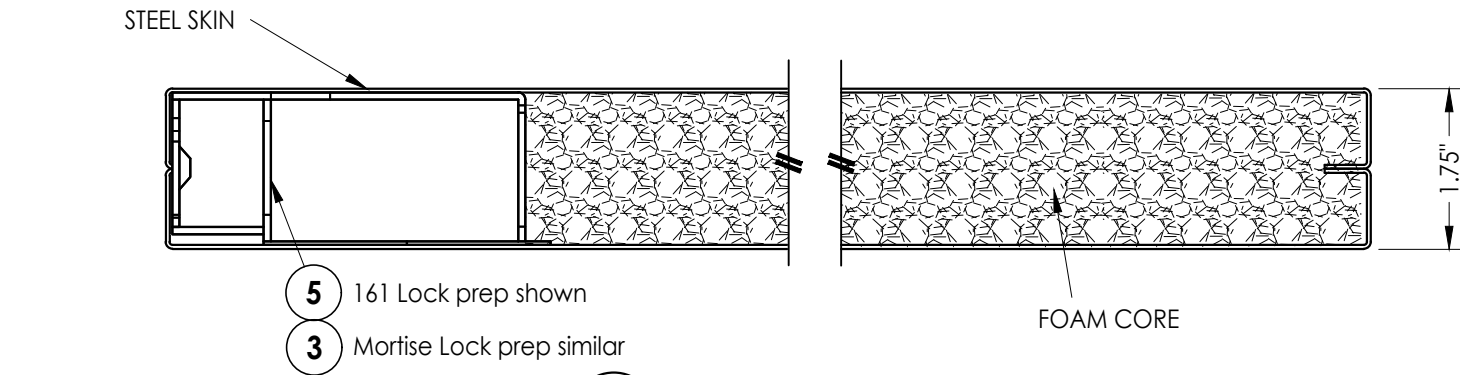
CHK. BY: RW

DRAWING NO.: FL-41130.3

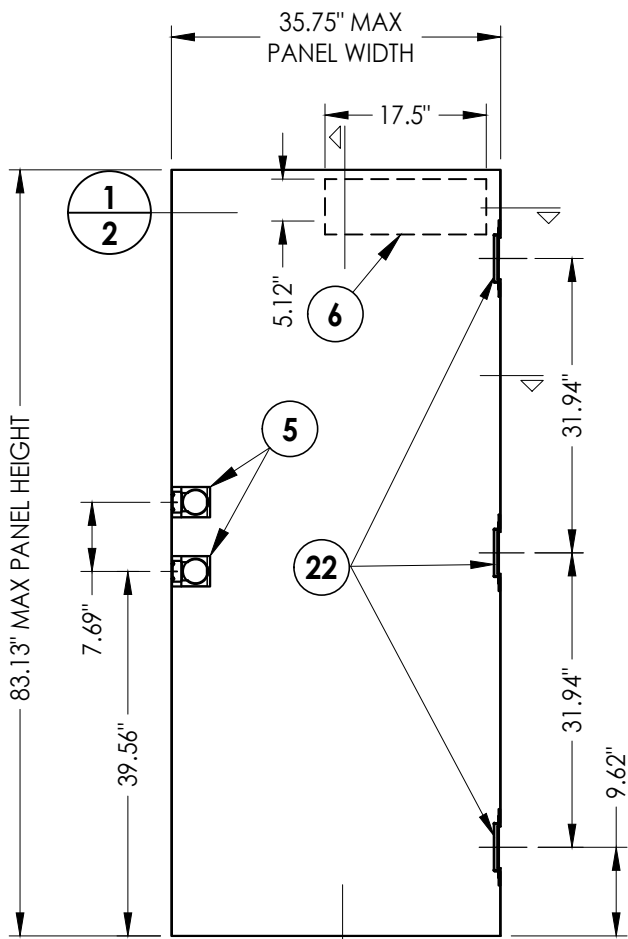
SHEET 1 OF 8

© 2022 R.W. BUILDING CONSULTANTS INC.

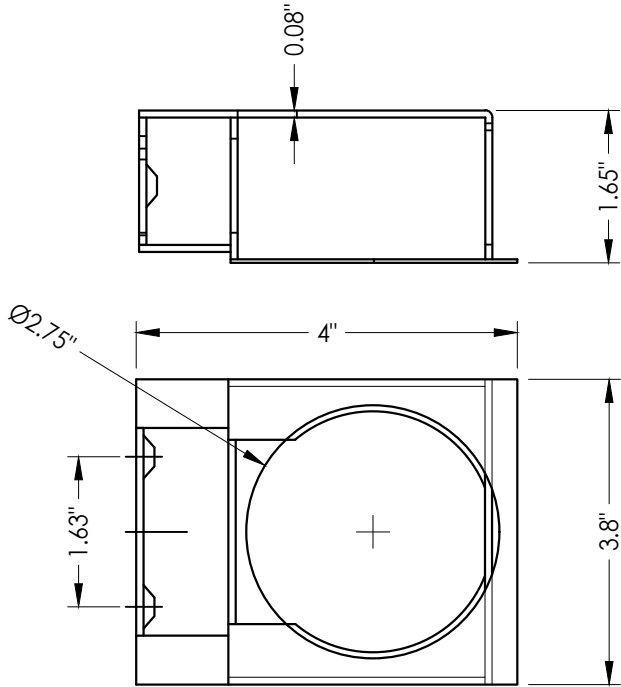
Z:\2023 FBC Drawings\DKS Steel Door & Frames Systems\FL-41130 R2\FL-41130.3-6.dwg



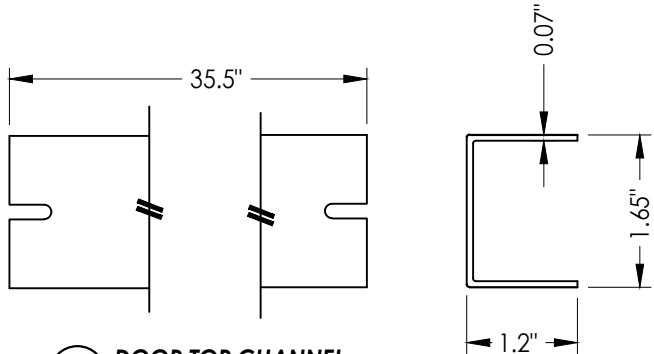
1
2 **HORIZONTAL CROSS SECTION**



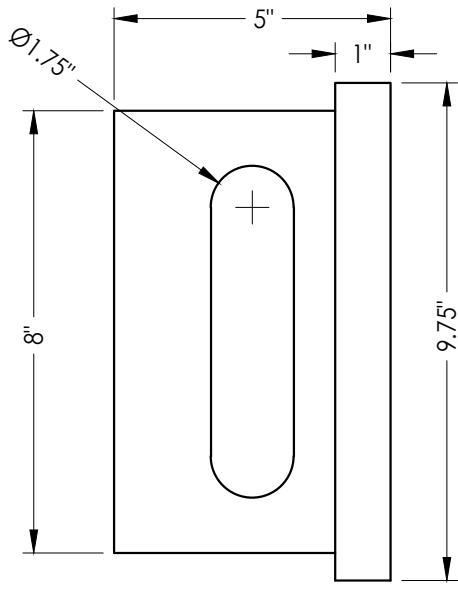
1
2 **DKS STEEL DOOR PANEL**



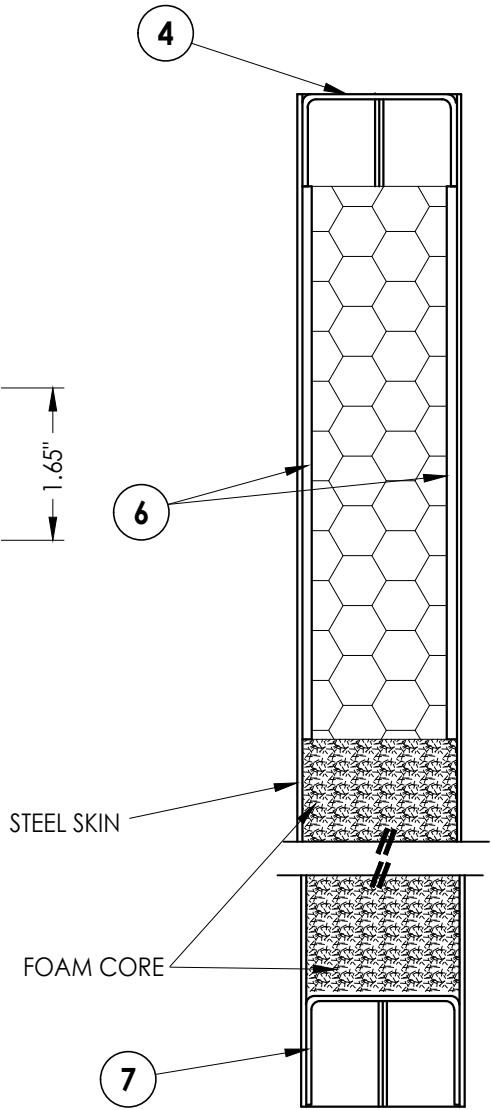
5 **STEEL LOCK BOX REINFORCEMENT**
161 Lock Prep



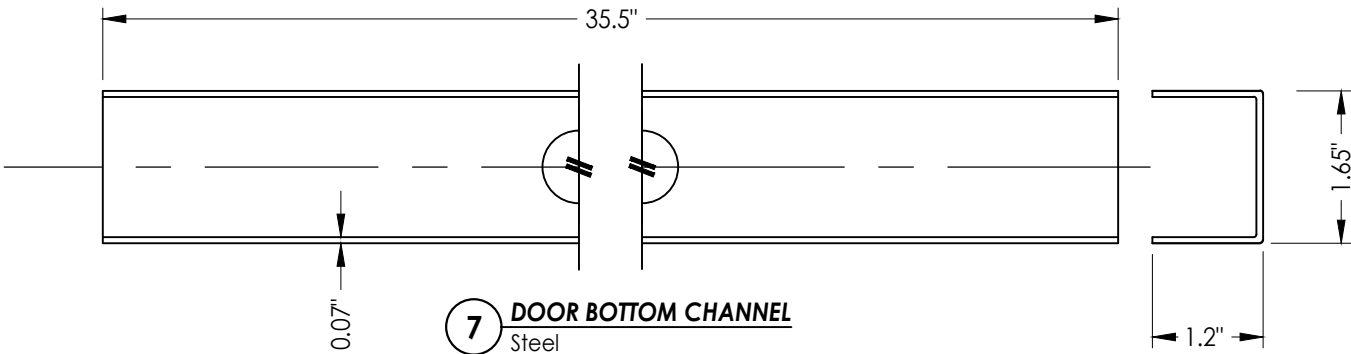
4 **DOOR TOP CHANNEL**
Steel



3 **STEEL LOCK BOX REINFORCEMENT**
Mortise Lock prep only



2
2 **VERTICAL CROSS SECTION**



7 **DOOR BOTTOM CHANNEL**
Steel

STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)

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: DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

REVISIONS		NO.	DATE	BY
2	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
1	7/01/23	UPDATE TO 8TH ED. (2023)	FBC	LFS

DATE: 3/21/22

SCALE: N.T.S.

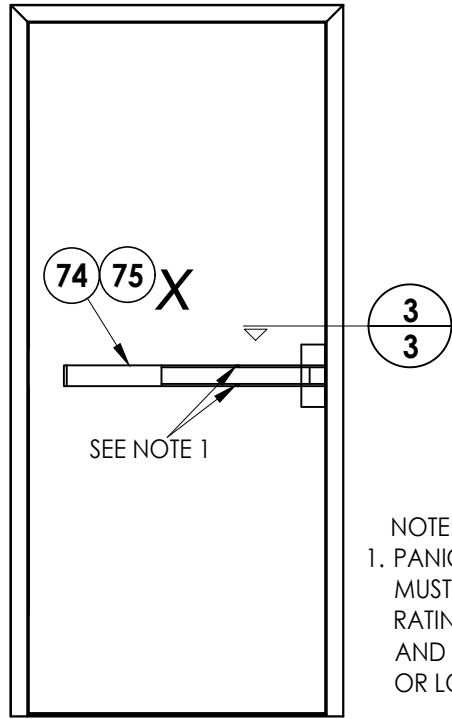
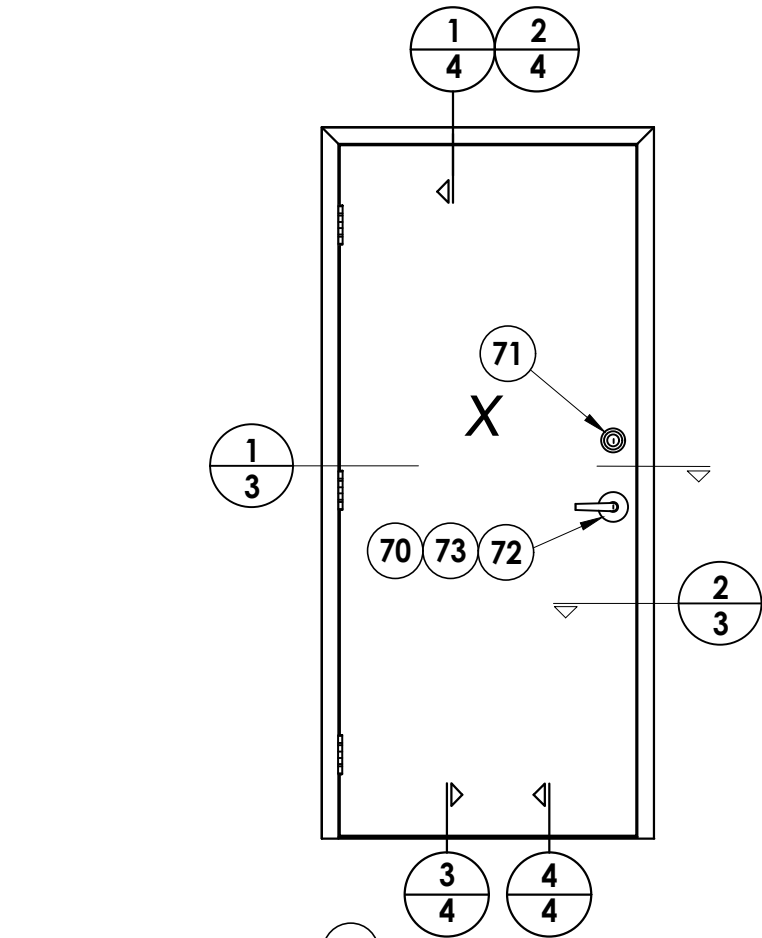
DWG. BY: LFS

CHK. BY: RW

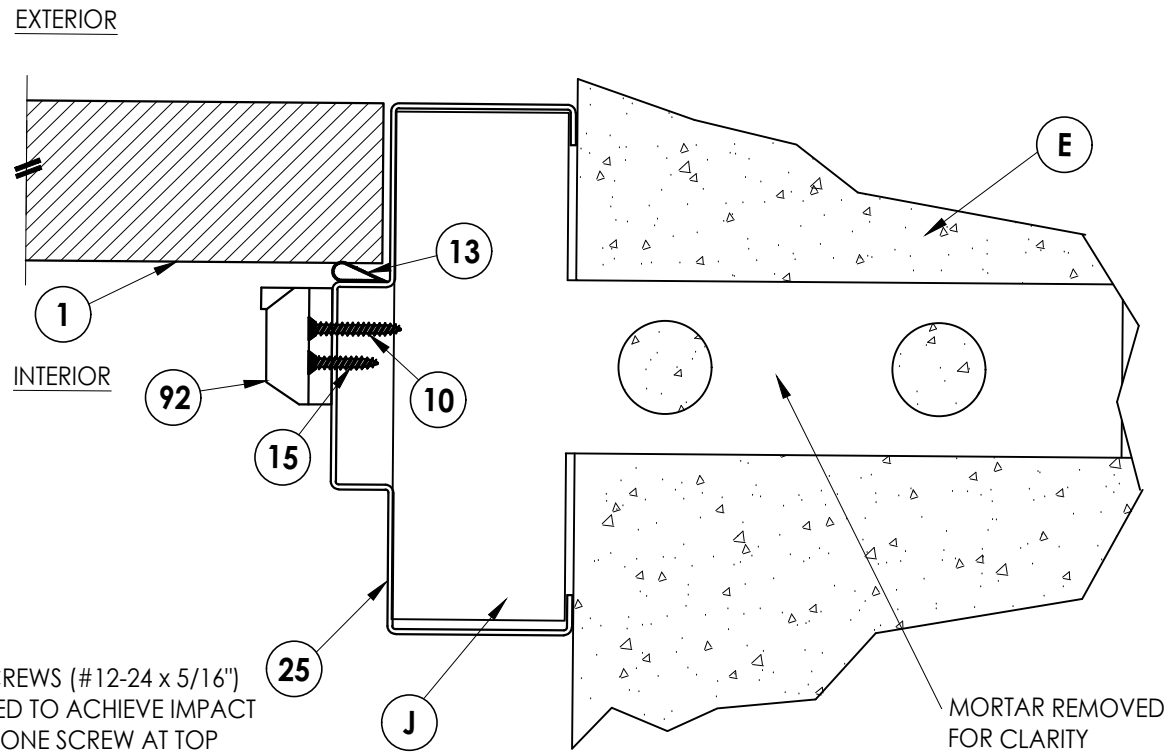
DRAWING NO.: FL-41130.3

SHEET 2 OF 8

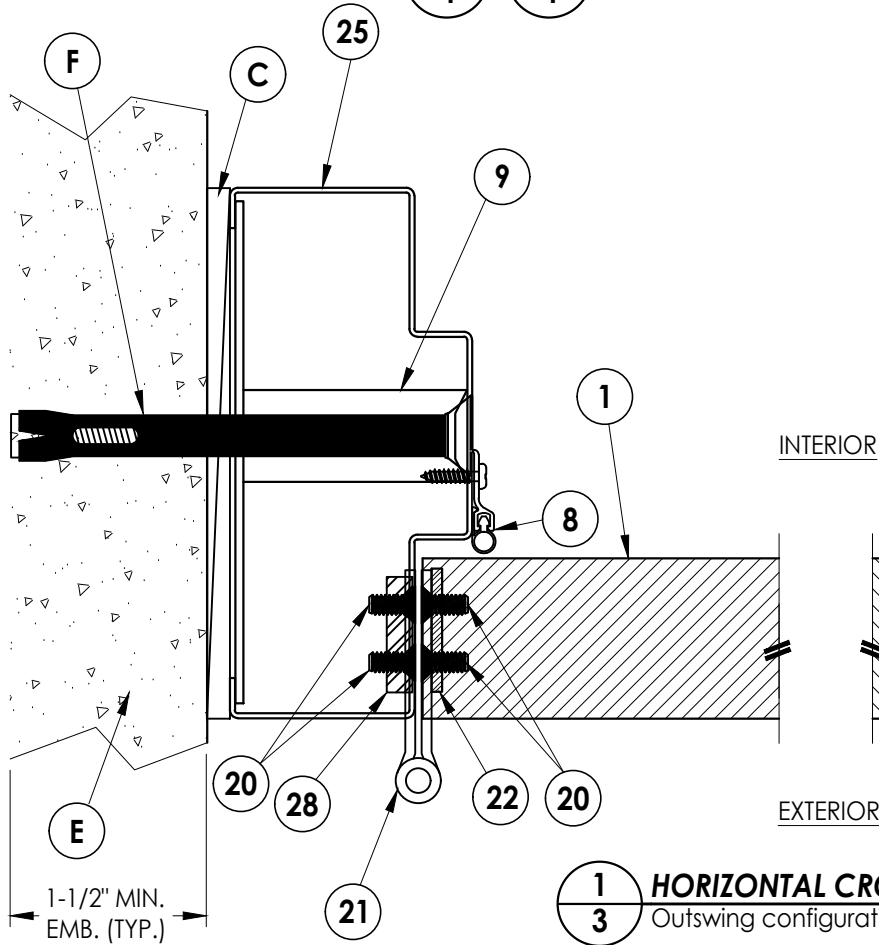
Z:\2023 FBC Drawings\DKS Steel Door & Frames Systems\FL-41130 R2\FL-41130.3-6.dwg



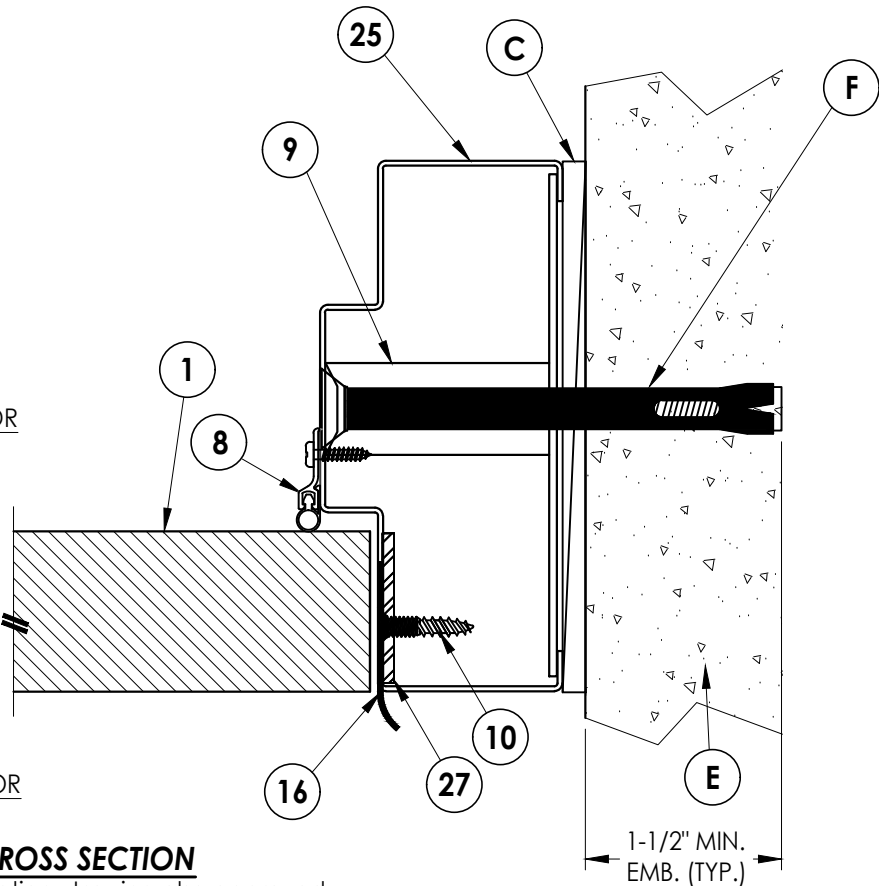
NOTE:
1. PANIC BAR SET SCREWS (#12-24 x 5/16")
MUST BE ACTIVATED TO ACHIEVE IMPACT
RATING. LOCATE ONE SCREW AT TOP
AND BOTTOM AT CENTER OF PUSH RAIL
OR LOCATE ONE SCREW AT EACH END OF BAR.



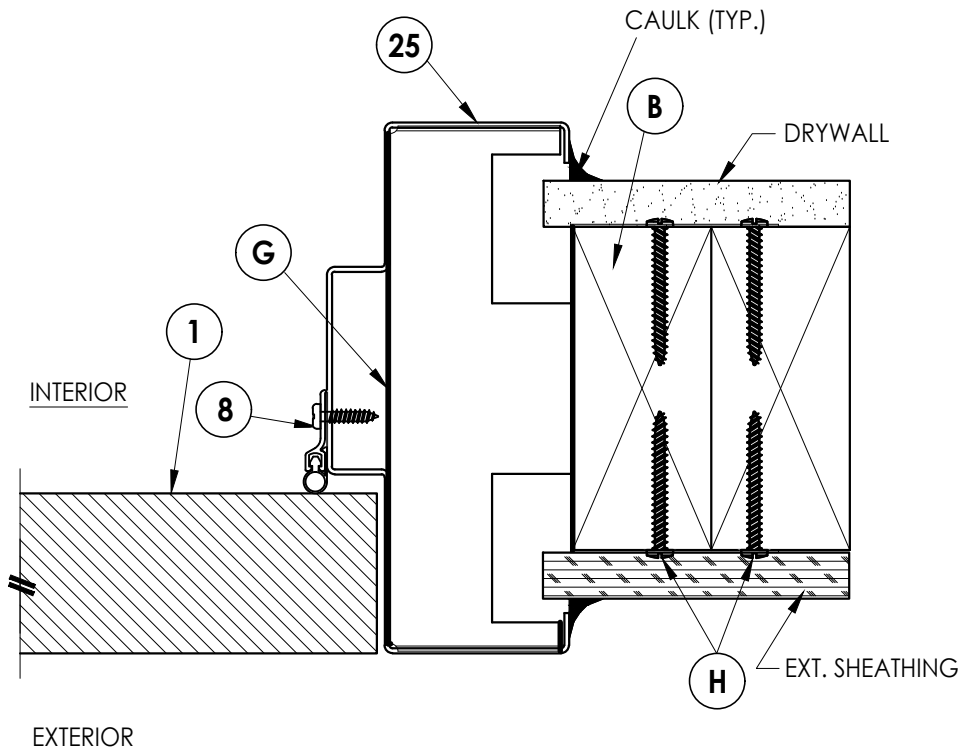
3 HORIZONTAL CROSS SECTION
Masonry Construction
Masonry "Tee" Anchor



1 HORIZONTAL CROSS SECTION
Outswing configuration - Inswing also approved



2 HORIZONTAL CROSS SECTION
2X Stud Construction
Wood Stud Anchor



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

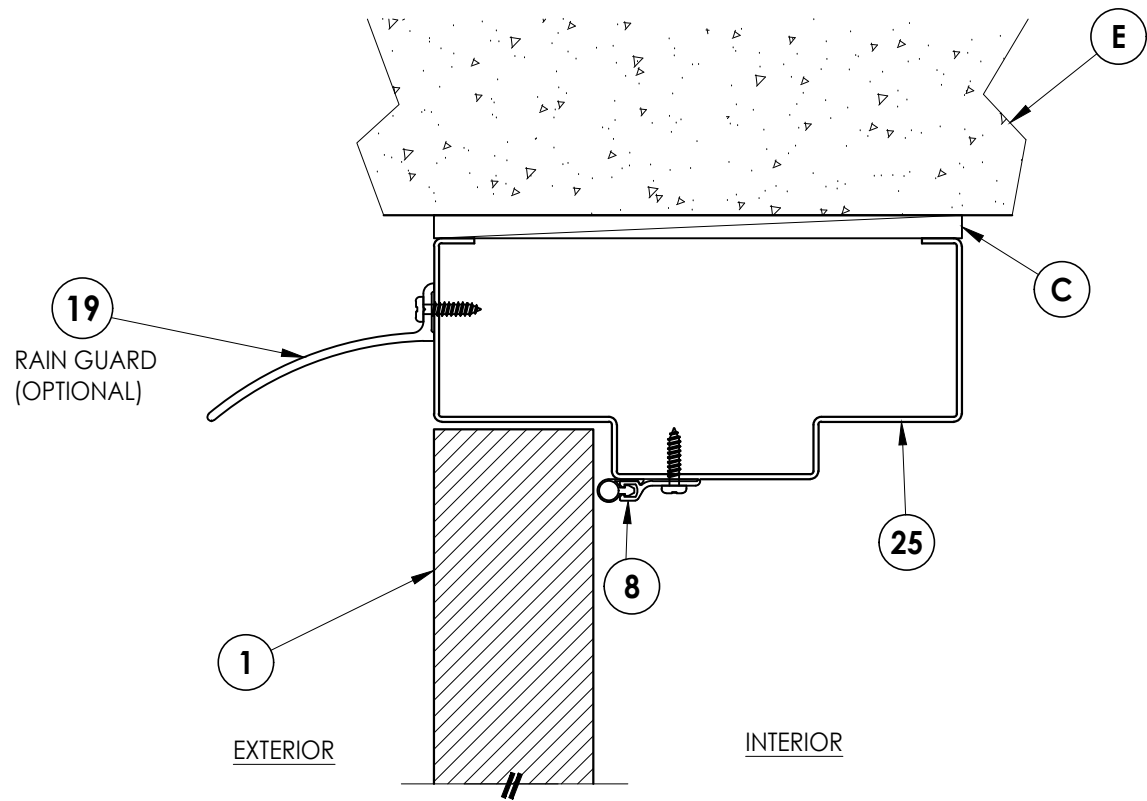
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC
1	7/01/23	UPDATE TO 8TH ED. (2023) FBC

DATE	3/21/22
SCALE	N.T.S.
DWG. BY	LFS
CHK. BY	RW
DRAWING NO.	FL-41130.3
SHEET	3 OF 8



1 **VERTICAL CROSS SECTION**
4 Outswing configuration - Inswing also approved

2 **VERTICAL CROSS SECTION**
4 Outswing configuration - Inswing also approved

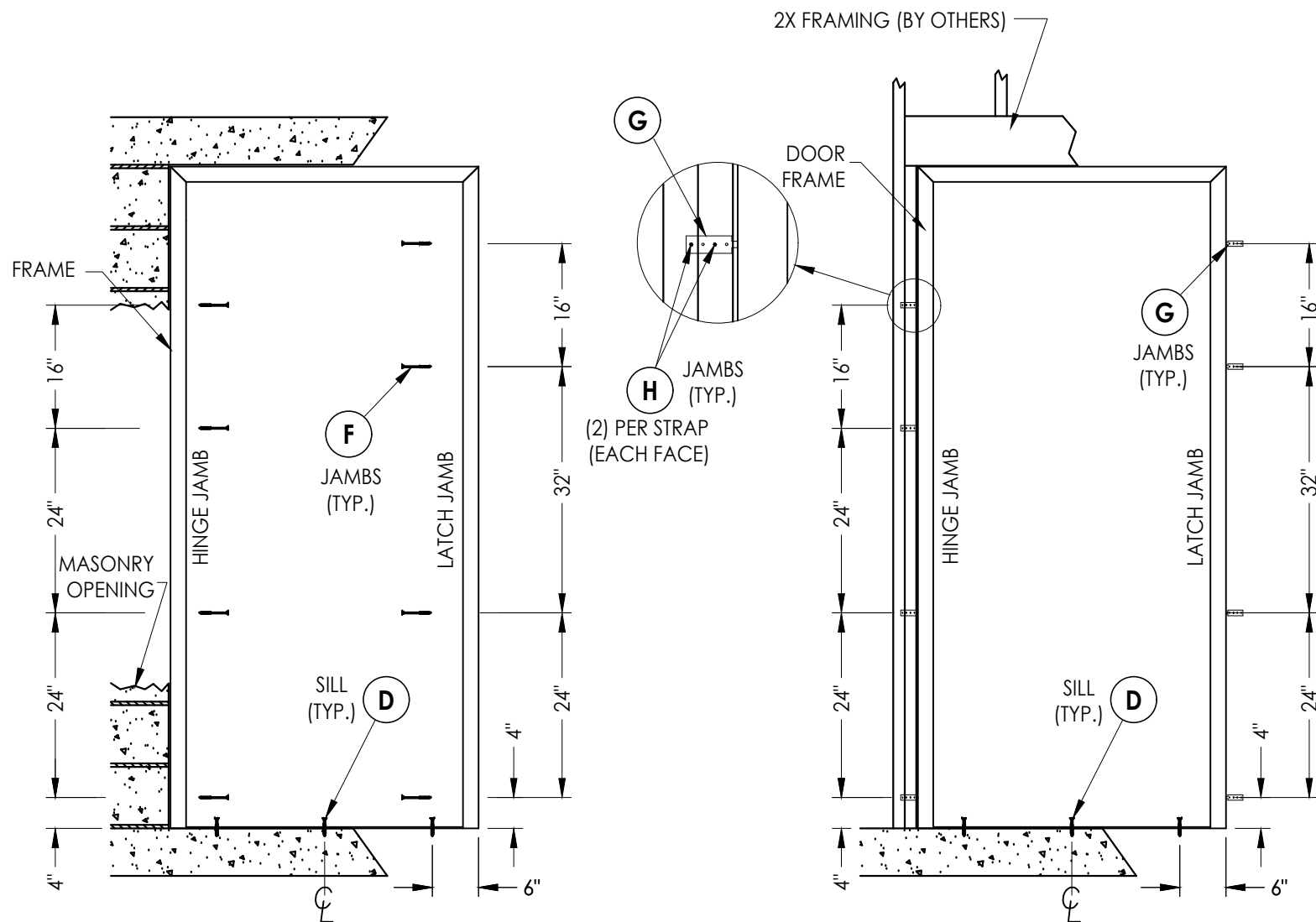
3 VERTICAL CROSS SECTION
4 Inswing configuration

4 **VERTICAL CROSS SECTION**
4 Outswing configuration

[illegible]

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



FRAME ANCHORING

CONCRETE ANCHOR NOTES:

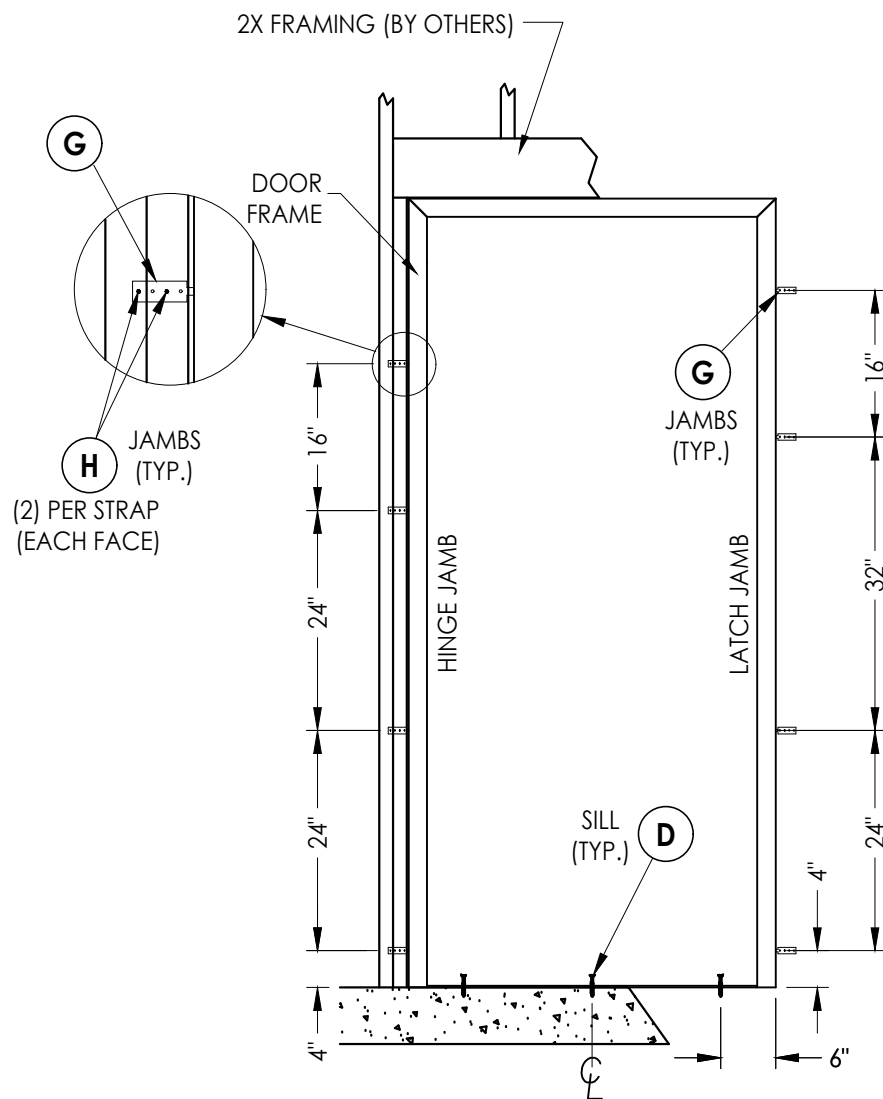
1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" 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.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	4"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"

4. Embedment may be through 1-1/4" face shell of hollow block.

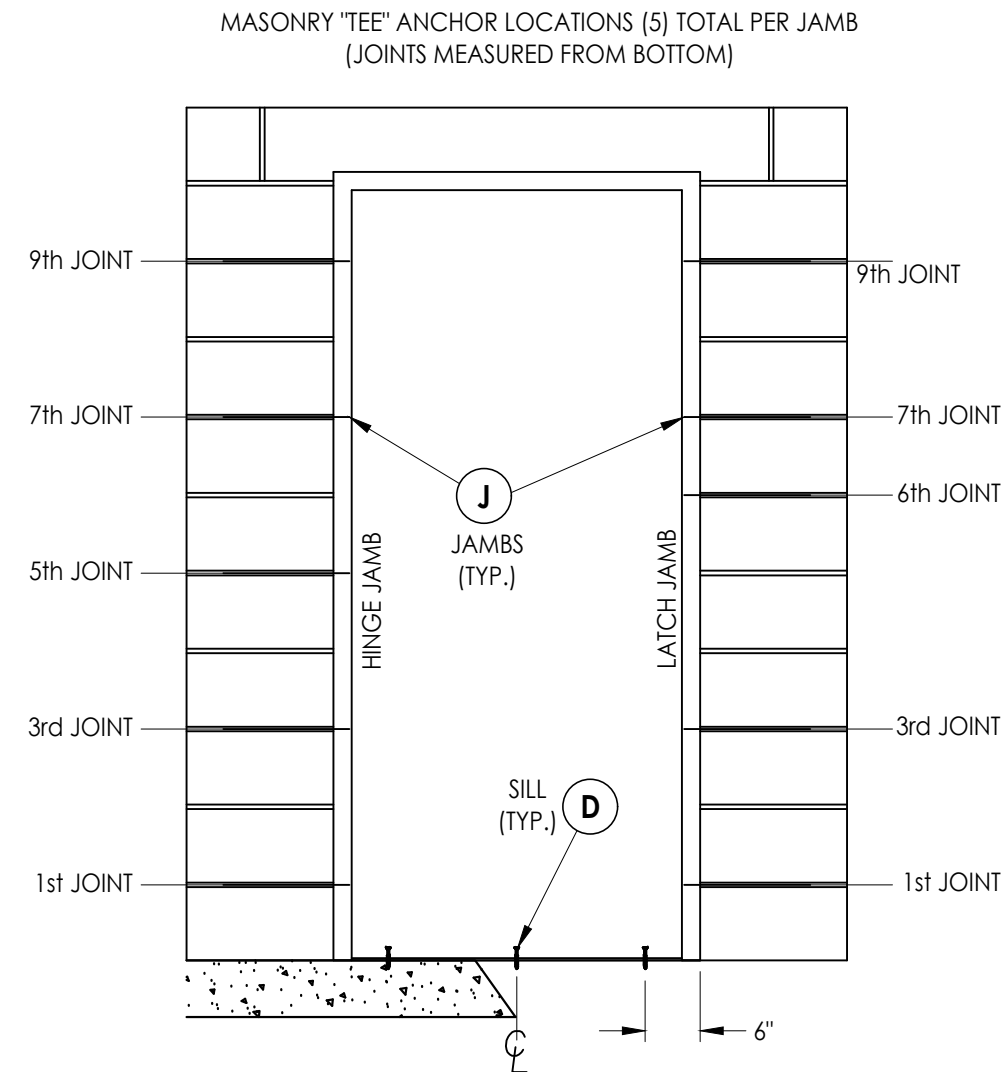
WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



FRAME ANCHORING

2X Stud Construction
Strap Anchors



FRAME ANCHORING

Masonry Construction
Masonry "Tee" Anchors

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.

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

DUCT: DKS
STEEL COMMERCIAL DOOR

FR ASSEMBLY:
FRAME ANCHORING

2	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
1	7/01/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
NO.	DATE				
					REVISIONS

DATE: 3/21/22

SCALE: *N.T.S.*

DWG. BY: *LFS*

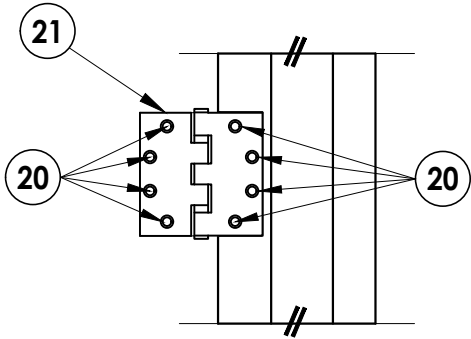
CHK. BY: RW

DRAWING NO.:

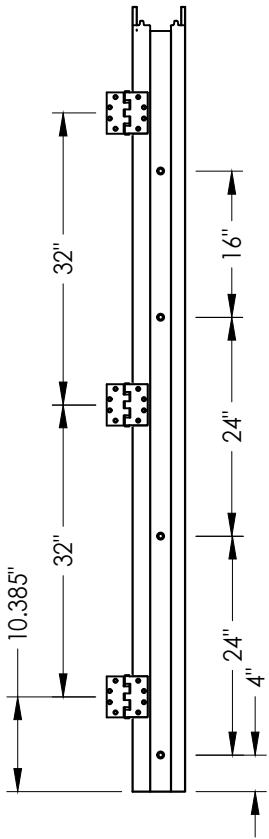
FL-41130.3

SHEET 5 OF 8

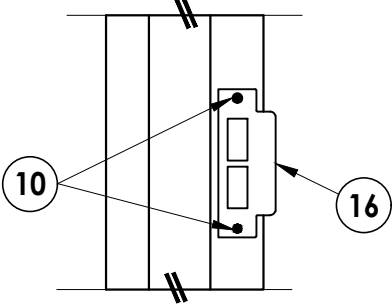
Z:\2023 FBC Drawings\DKS Steel Door & Frames Systems\FL-41130 R2\FL-41130.3-6.dwg



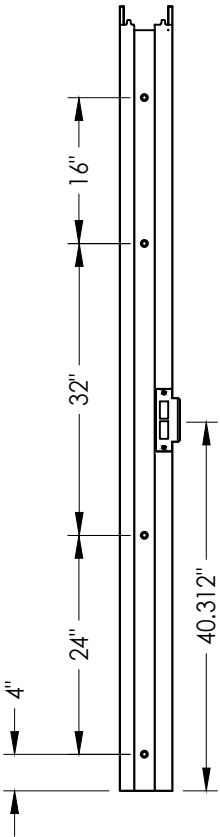
HINGE DETAIL



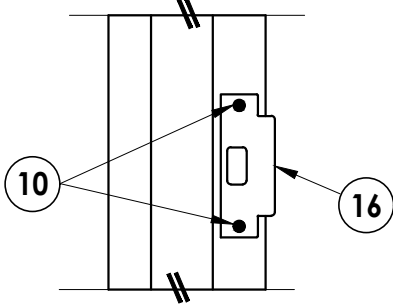
HINGE JAMB



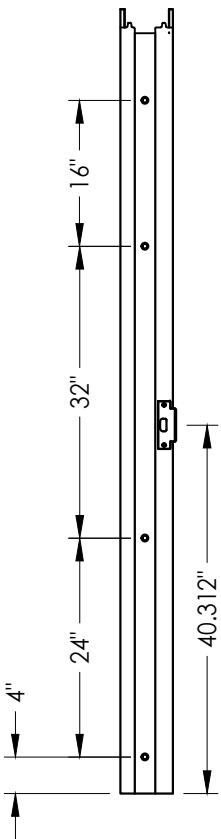
LATCH DETAIL
Mortise Lock



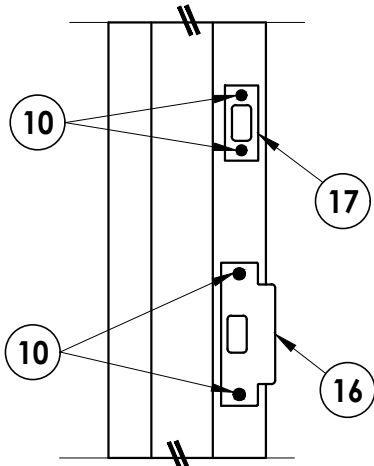
STRIKE JAMB
Mortise Lock



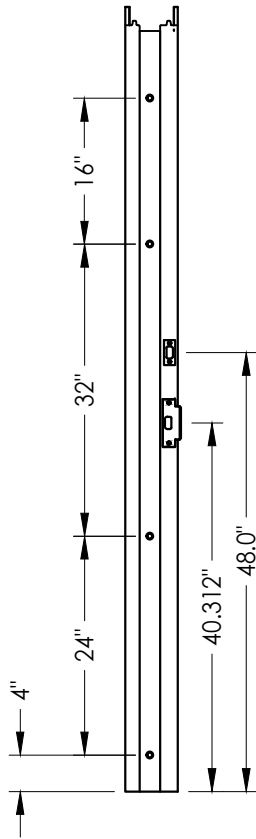
LATCH DETAIL
161 Latch



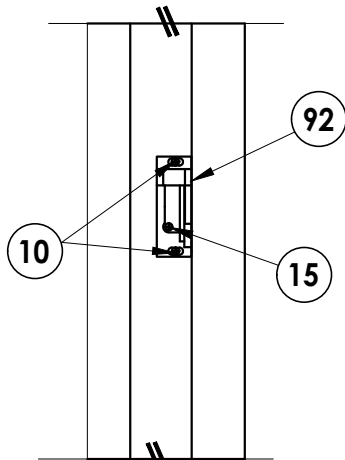
STRIKE JAMB
161 Latch



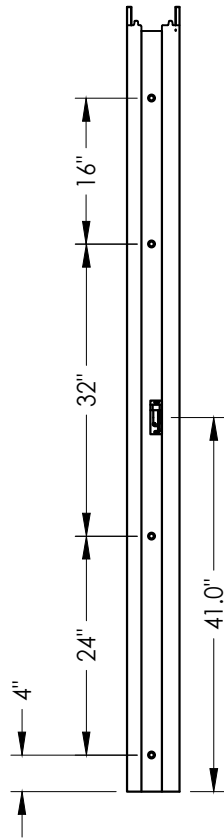
LATCH & DEADBOLT DETAIL
161 Latch & Deadbolt



STRIKE JAMB
161 Latch & Deadbolt



LATCH DETAIL
Panic Bar



STRIKE JAMB
Panic Bar

DATE:	3/21/22
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-41130.3
SHEET	6 OF 8

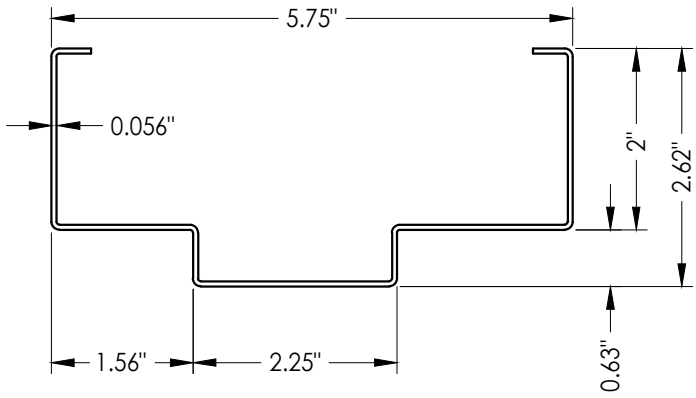
NO.	DATE	REVISIONS
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
1	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
		BY

PRODUCT:	DKS STEEL COMMERCIAL DOOR
PART OR ASSEMBLY:	FRAME ANCHORING DETAILS

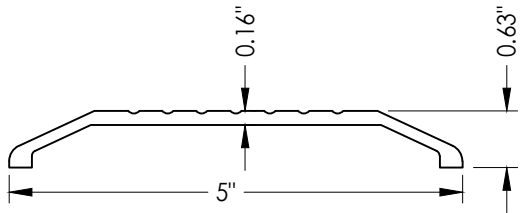
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

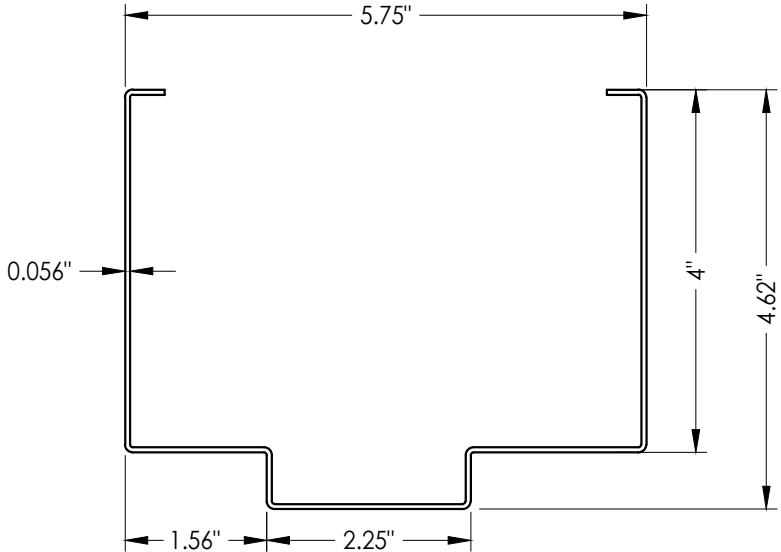
Z:\2023 FBC Drawings\DKS Steel Door & Frames Systems\FL-41130 R2\FL-41130.3-6.dwg



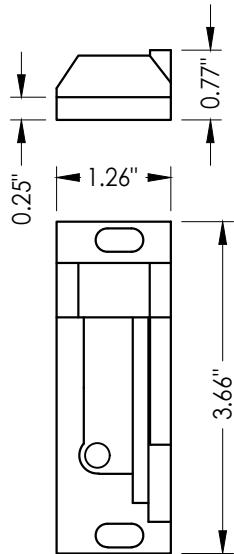
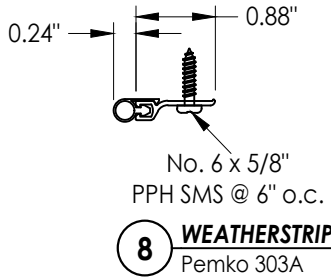
26 HOLLOW METAL FRAME
2" HEAD



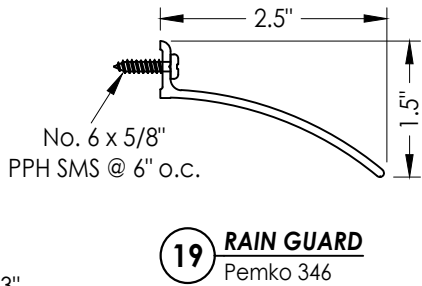
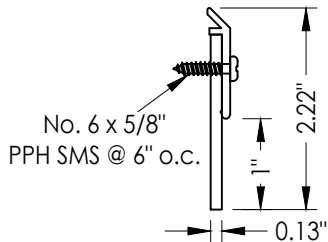
40 THRESHOLD
Pemko 156



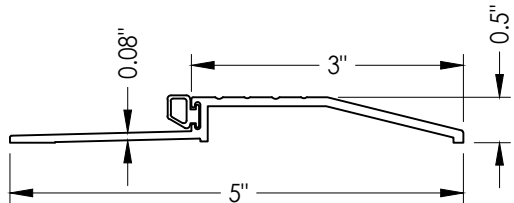
26 HOLLOW METAL FRAME
4" HEAD



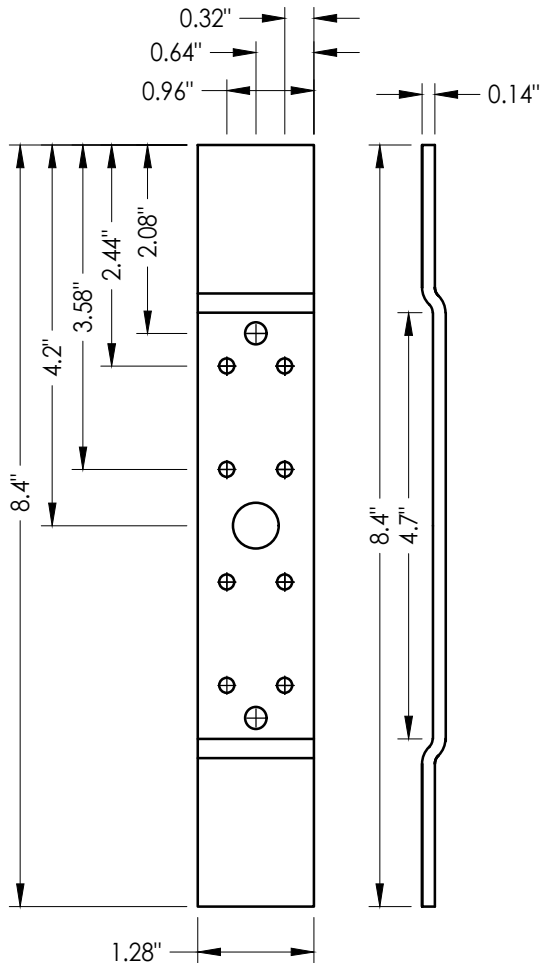
92 PANIC BAR LATCH STRIKE PLATE
@ Jamb



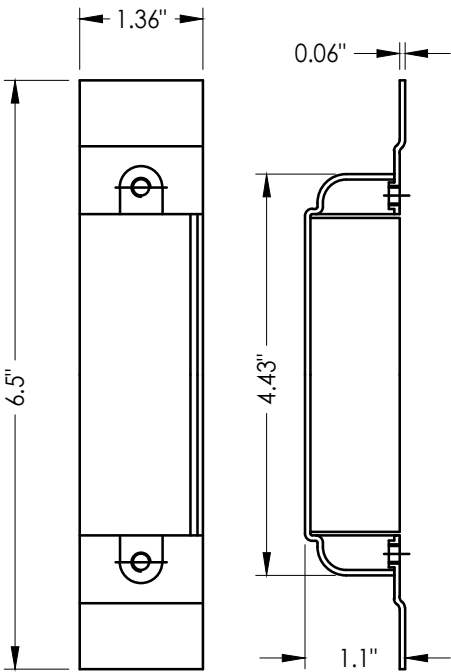
27 FRAME LATCH STRIKE REINFORCEMENT



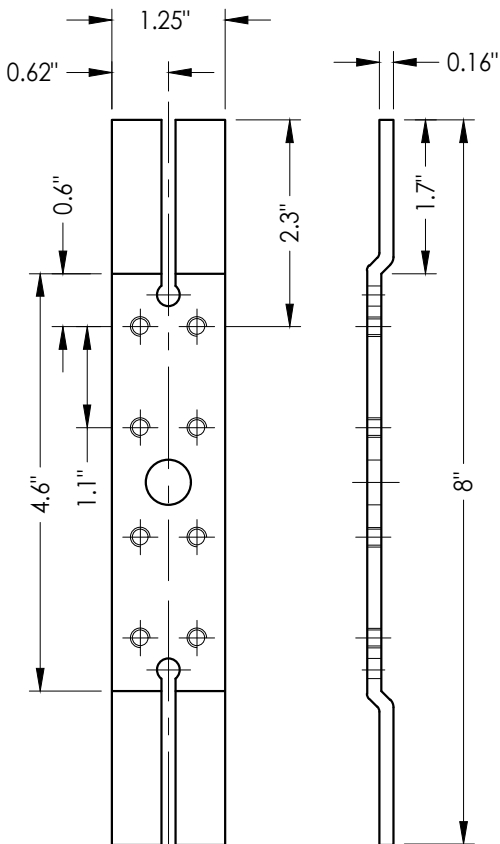
42 THRESHOLD
Pemko 2001P



28 FRAME HINGE REINFORCEMENT



30 DOOR LATCH REINFORCEMENT
Mortise Lock only



22 DOOR HINGE REINFORCEMENT

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:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
1	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS

DATE: 3/21/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-41130.3

SHEET 7 OF 8

