

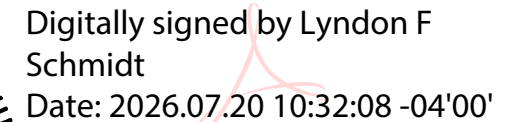


DKS SERIES 1800
STEEL COMMERCIAL DOUBLE DOOR
INSWING / OUTSWING
"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements 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. When used in areas outside of the "HVHZ" 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 E 1996.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product does 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.
7. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6

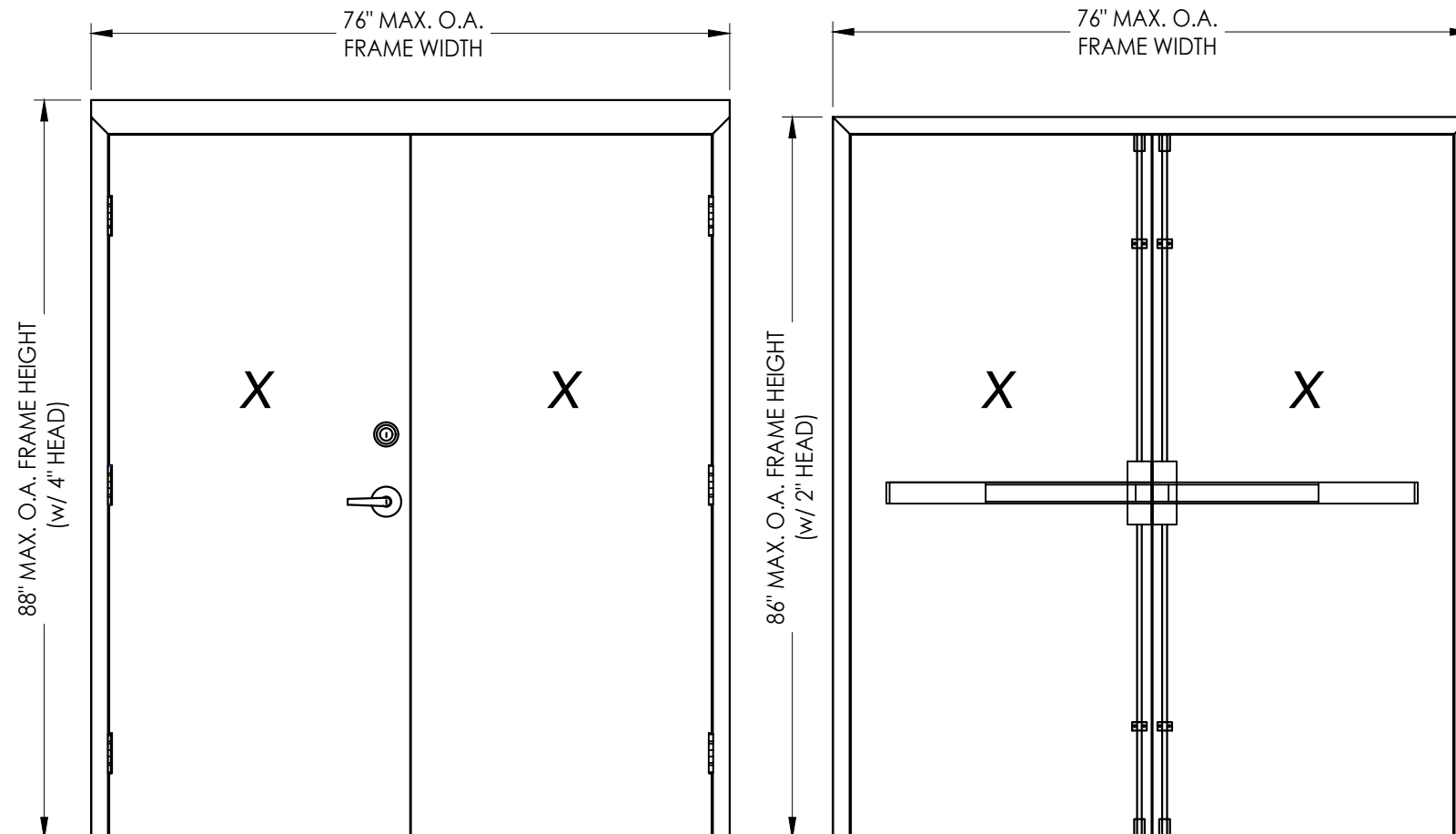
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Frame anchoring
7	Frame anchoring
8	Components
9	Bill of materials and components



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



"Pioneer SL/CSL Series" Latch
 "T300 Series" Deadbolt
 161 Latch & Deadbolt

Panic Bar Exit Device w/ Vertical Rods
"7700-V Series"

MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
76.0" x 88.0"	161 LATCH & DEADBOLT "Pioneer SL/CSL & T300 Series"	+55.0	-55.0	+55.0	-55.0
76.0" x 88.0"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	N/A	N/A	+70.0	-70.0

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

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: DKS
STEEL COMMERCIAL DOOR

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

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

DATE: 3/21/22

SCALE: N.T.S.

DWG. BY: LFS

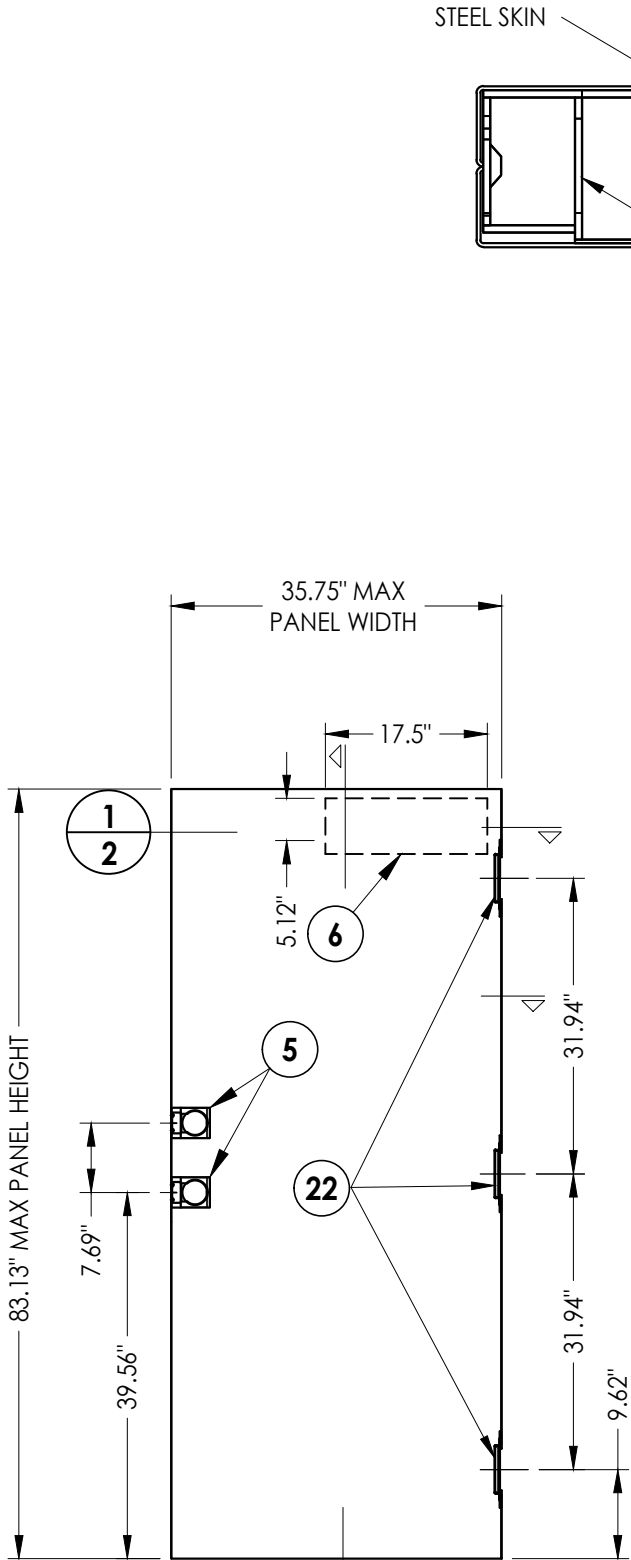
CHK. BY: RW

DRAWING NO.:

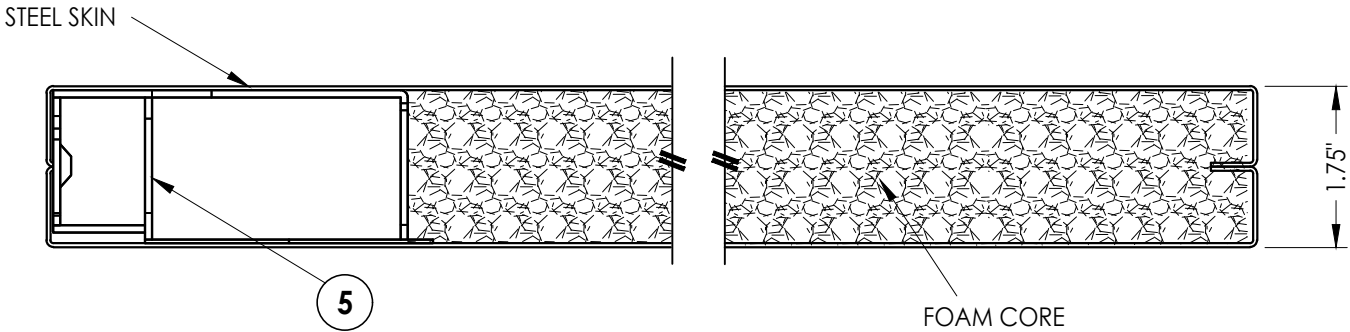
FL-41130.6

SHEET 1 OF 9

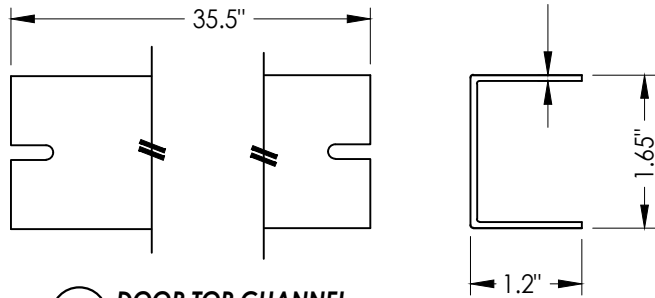
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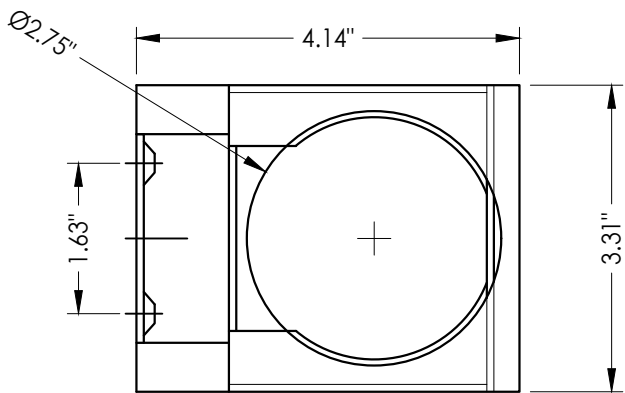
1 DKS STEEL DOOR PANEL
Active door



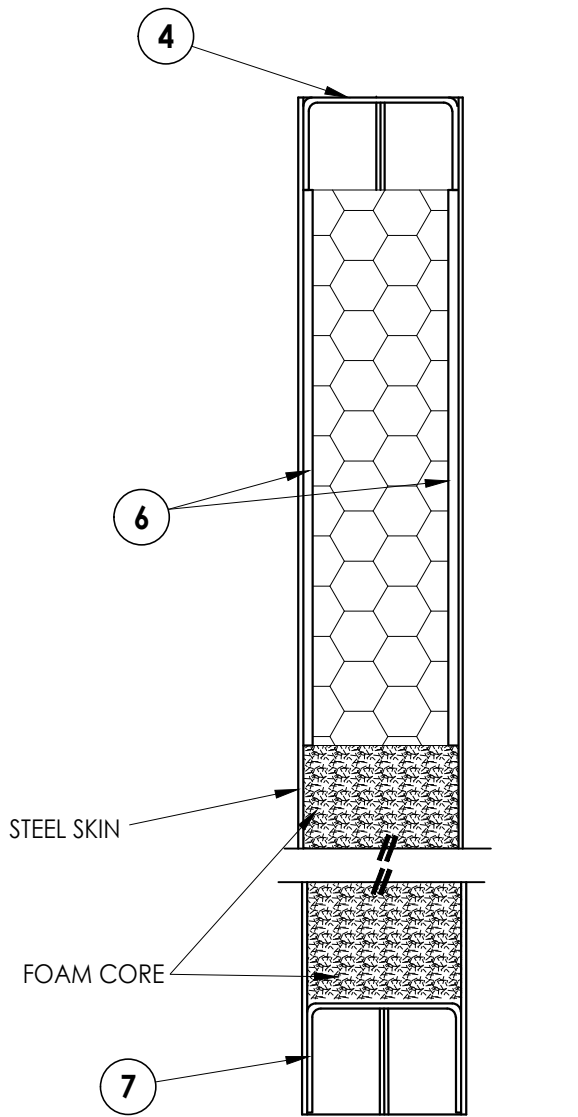
1/2 HORIZONTAL CROSS SECTION



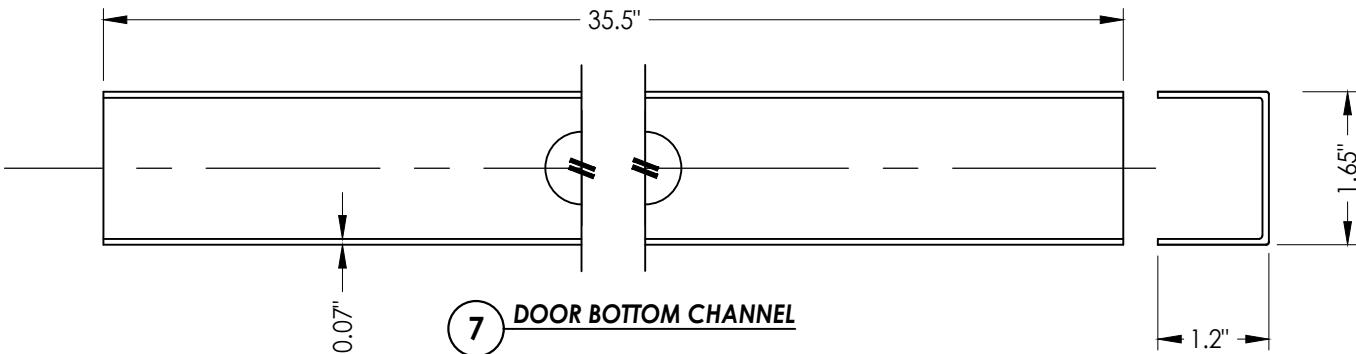
4 DOOR TOP CHANNEL



5 STEEL LOCK BOX REINFORCEMENT
161 Lock prep only



2/2 VERTICAL CROSS SECTION



7 DOOR BOTTOM CHANNEL

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

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FBPE Registry No. 9813

PRODUCT: DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

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

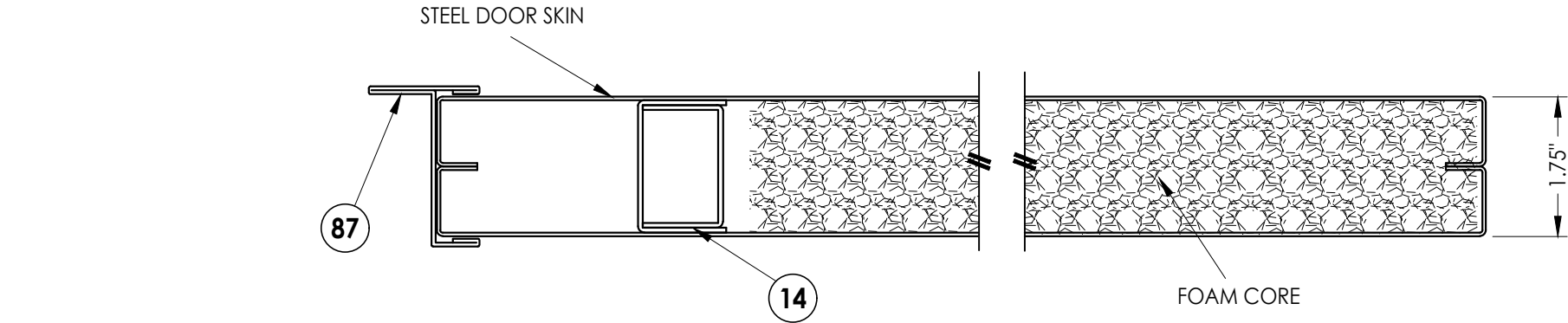
CHK. BY: RW

DRAWING NO.:

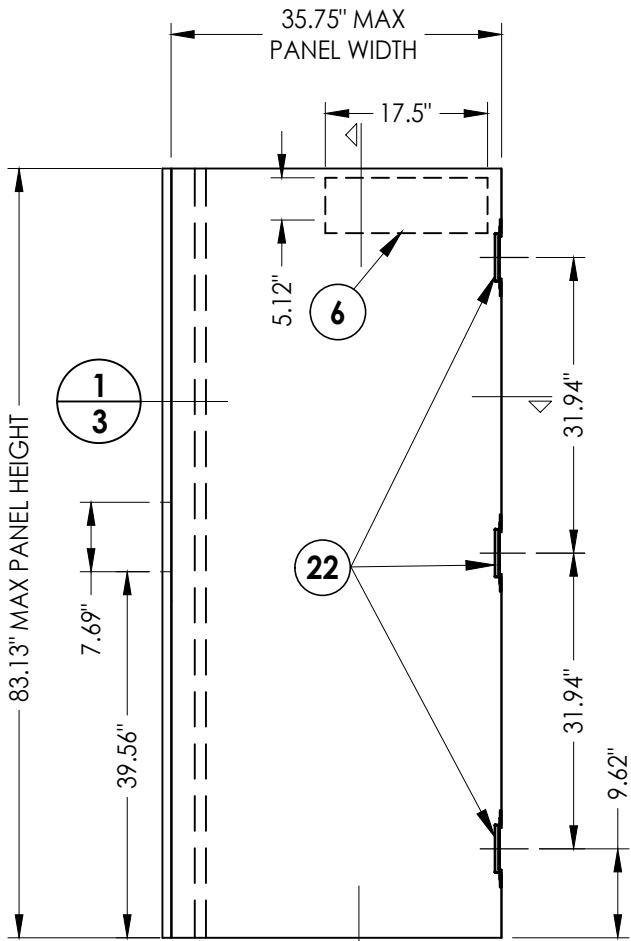
FL-41130.6

SHEET 2 OF 9

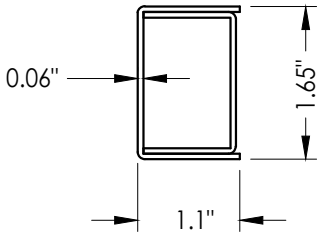
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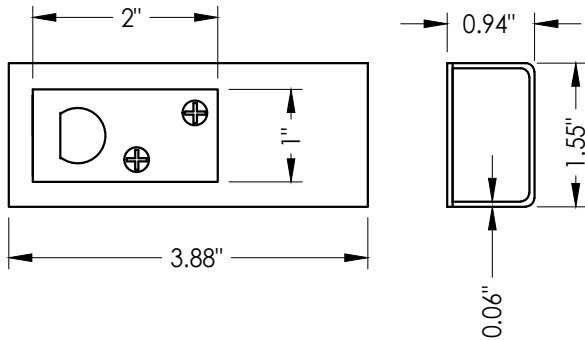
1
3 HORIZONTAL CROSS SECTION



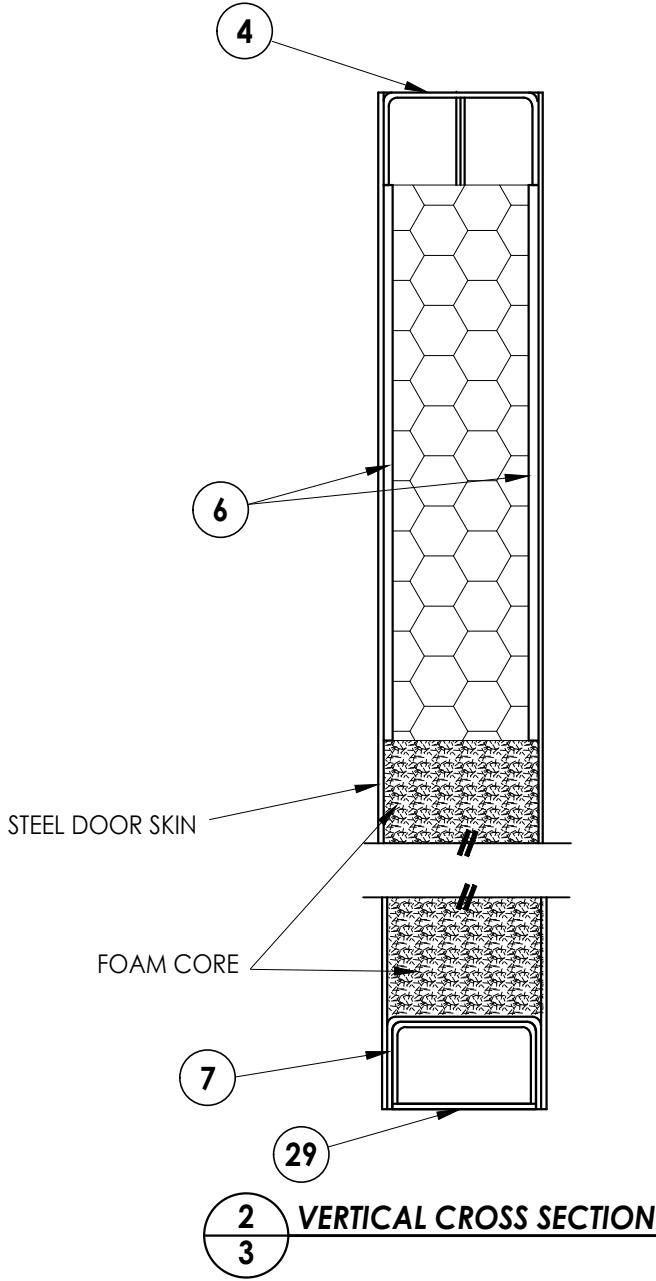
2
3 DKS STEEL DOOR PANEL
Inactive Door



14 STILE REINFORCEMENT



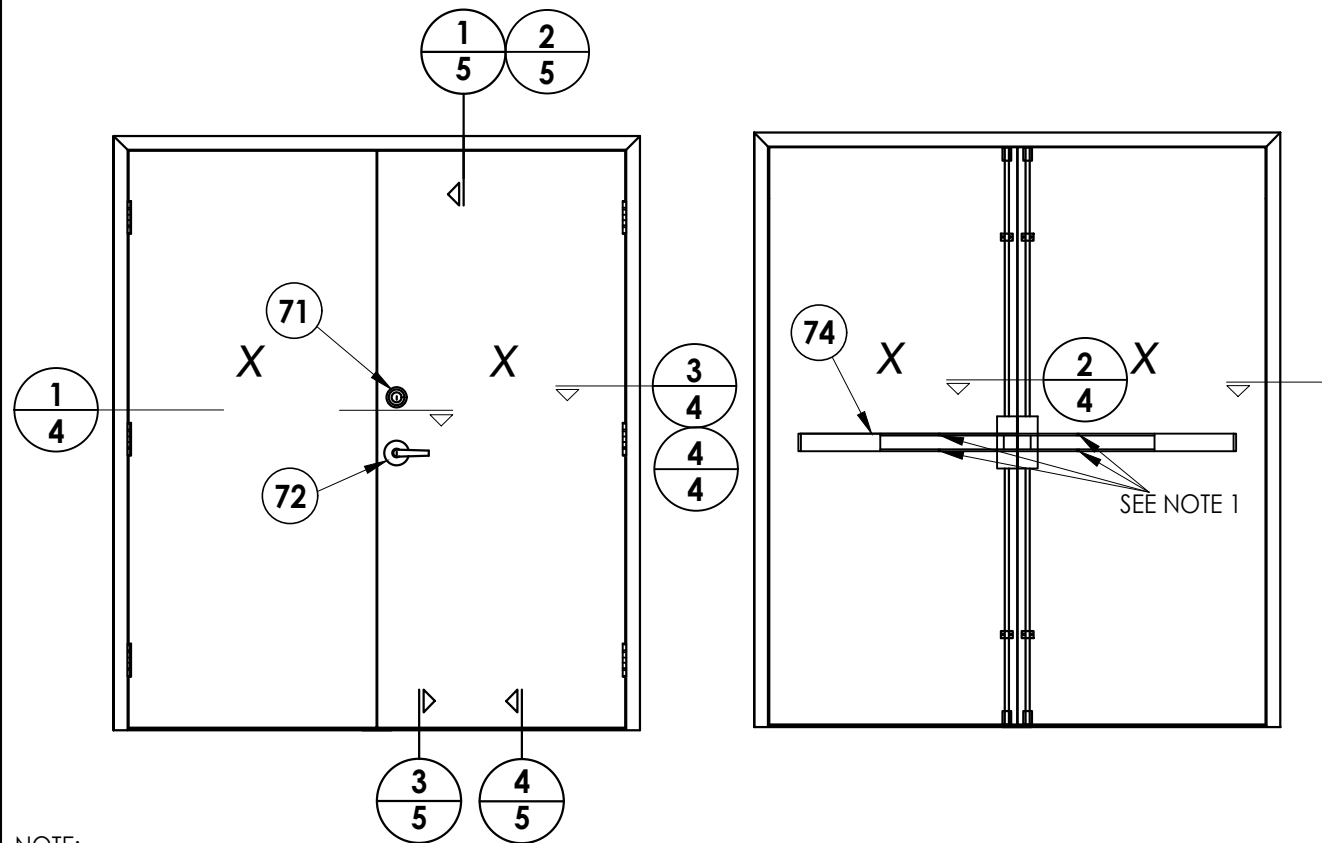
29 DOOR BOTTOM REINFORCEMENT
w/ Strike Plate



2
3 VERTICAL CROSS SECTION

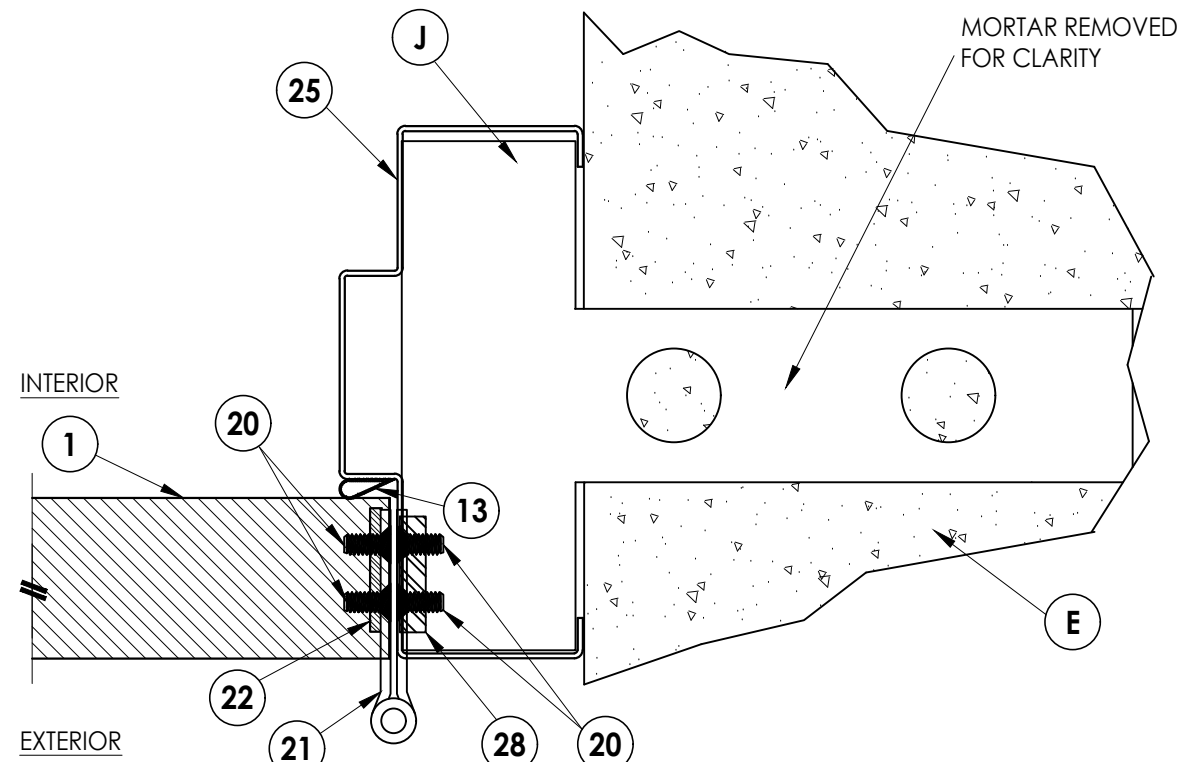
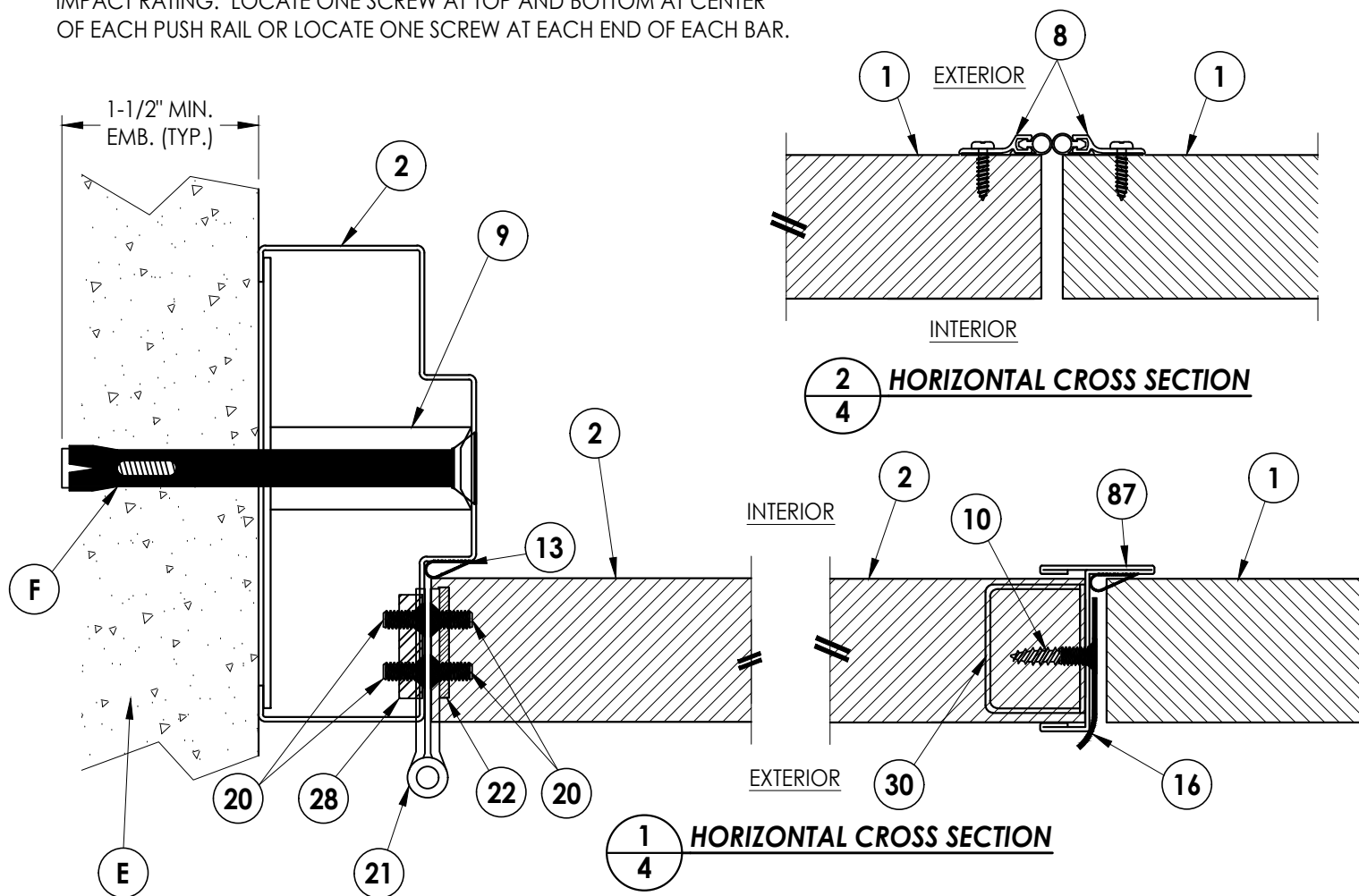
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)

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PRODUCT: DKS STEEL COMMERCIAL DOOR		PART OR ASSEMBLY: DOOR PANEL DETAILS	
		2	7/01/26
		1	7/01/23
		NO.	DATE
		REVISIONS	
DATE: 3/21/22			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-41130.6			
SHEET 3 OF 9			

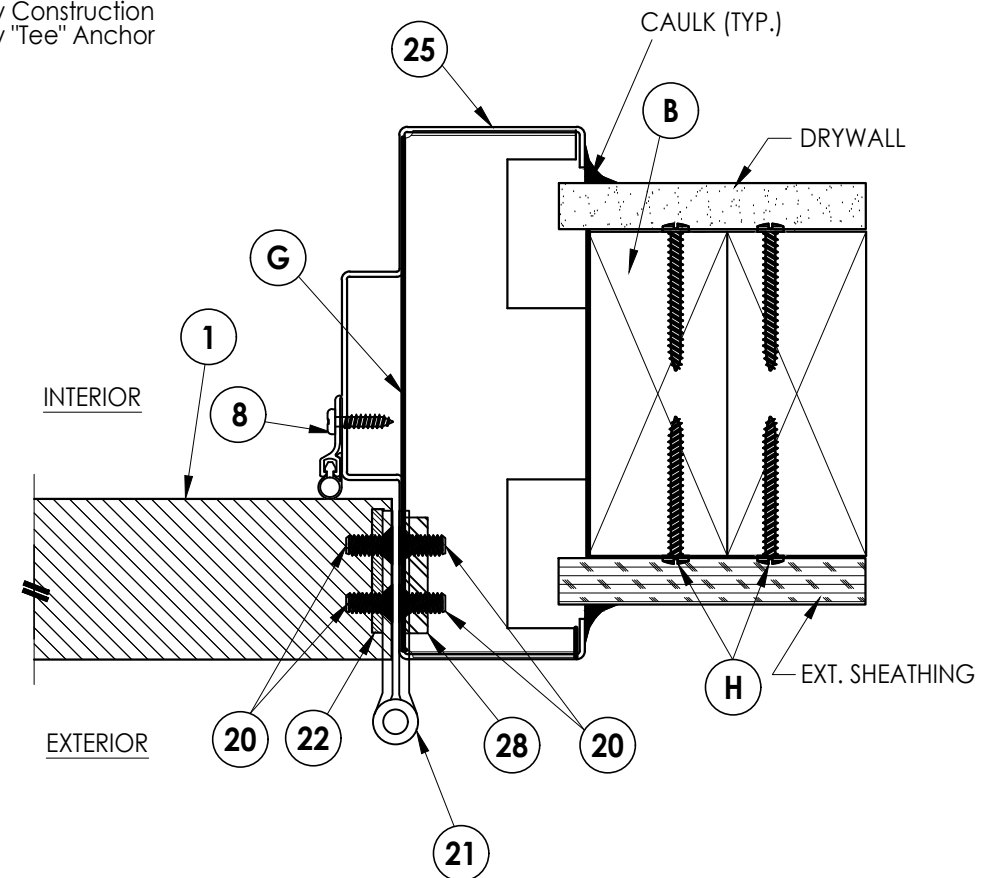


NOTE:

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 EACH PUSH RAIL OR LOCATE ONE SCREW AT EACH END OF EACH BAR.



3 4 **HORIZONTAL CROSS SECTION** Masonry Construction Masonry "Tee" Anchor

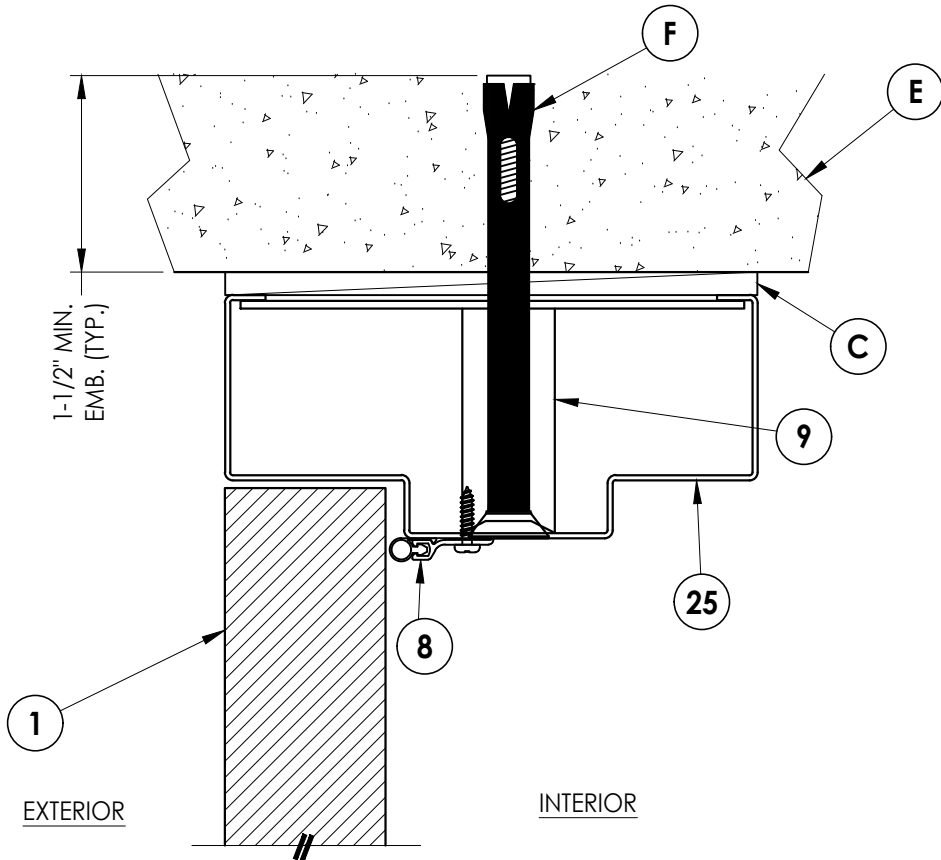


4 HORIZONTAL CROSS SECTION

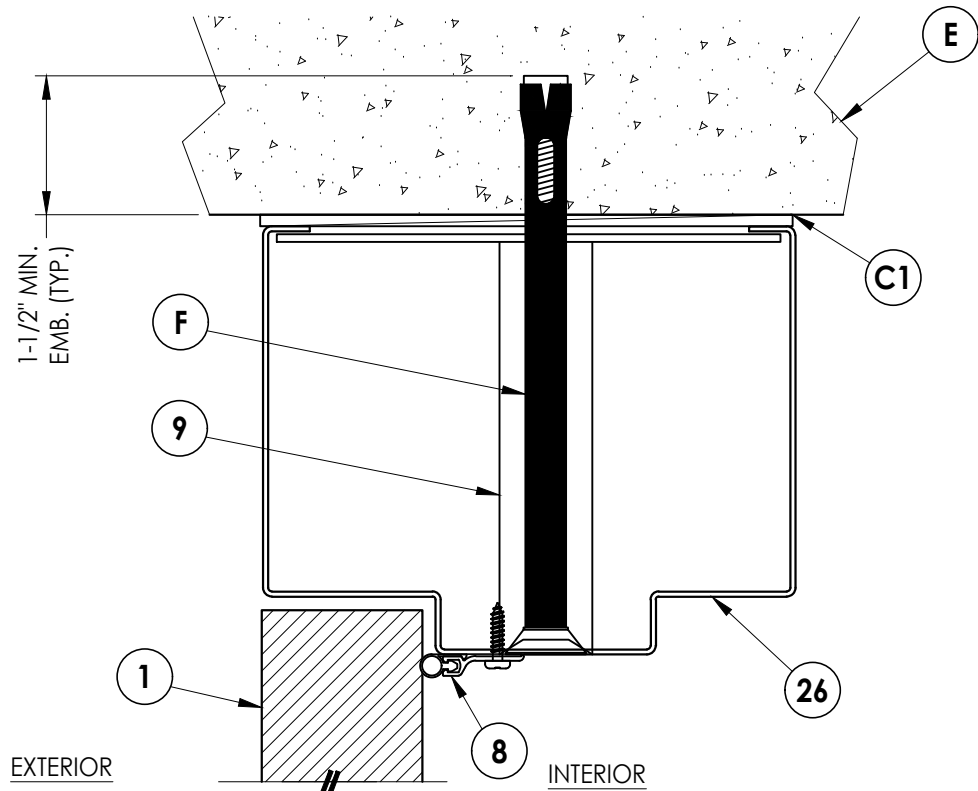
4 2X Stud Construction Wood Stud Anchor

[illegible]

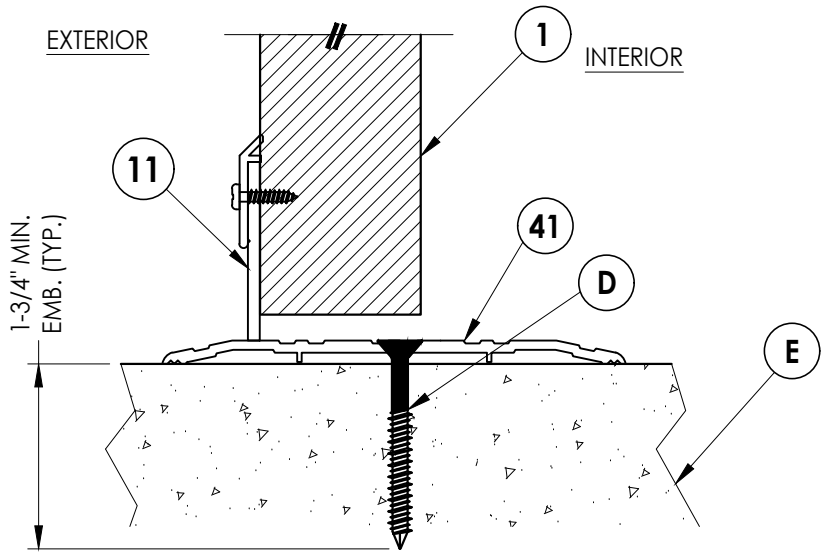
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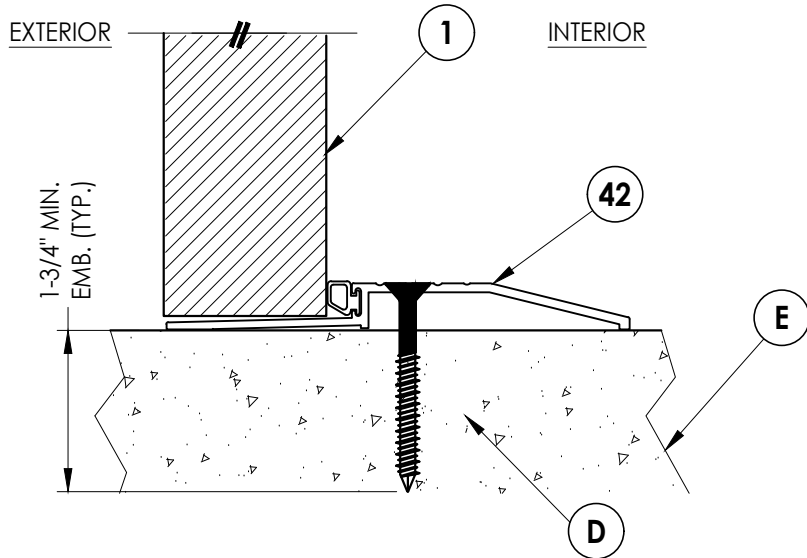
1 **VERTICAL CROSS SECTION**
5 Outswing configuration - Inswing also approved



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



3 **VERTICAL CROSS SECTION**
5 Inswing configuration



4 **VERTICAL CROSS SECTION**
5 Outswing configuration

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

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

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.

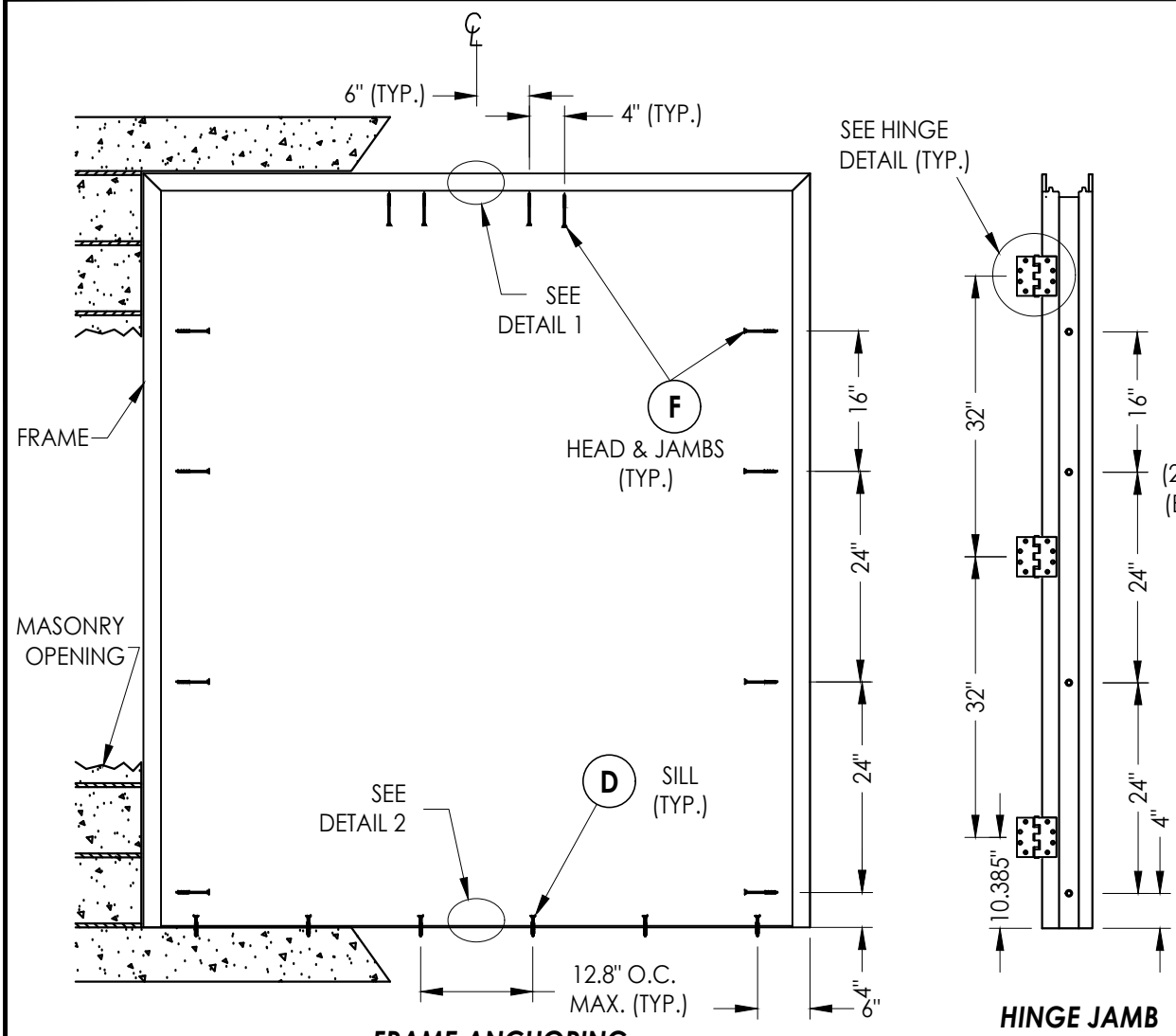
DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-41130.6

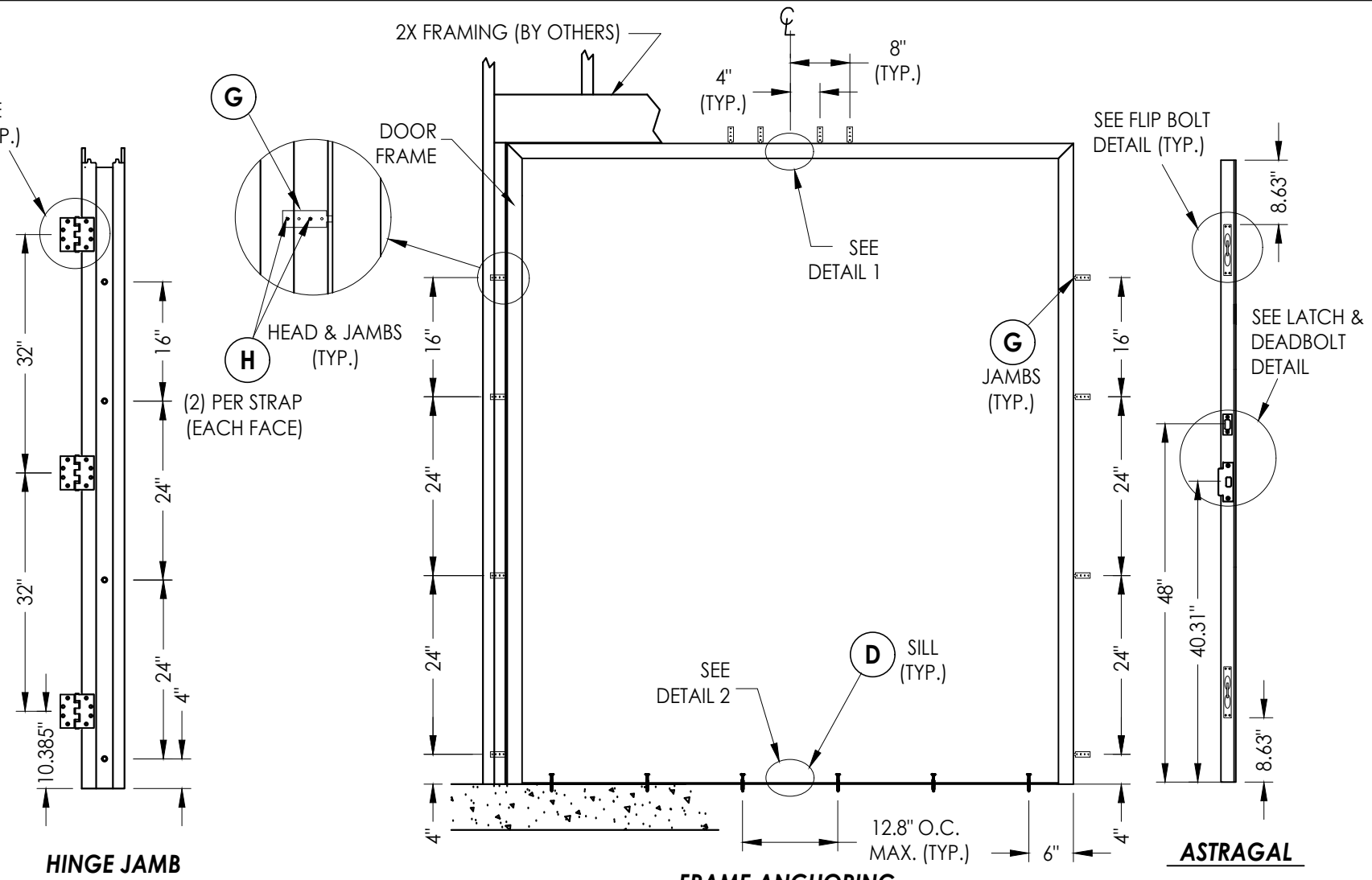
SHEET 5 OF 9



FRAME ANCHORING

Masonry Construction

Concrete Anchors



FRAME ANCHORING

2X Stud Construction
Strap Anchors

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"

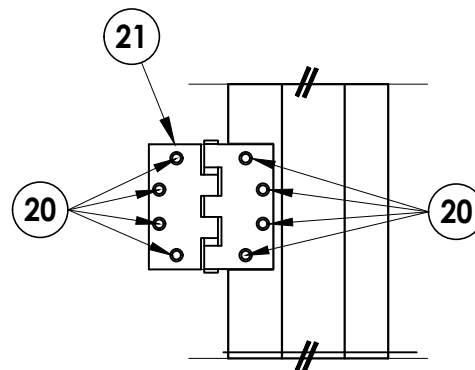
4. Embedment may be through 1-1/4" face shell of hollow block.

WOOD SCREW INSTALLATION NOTES:

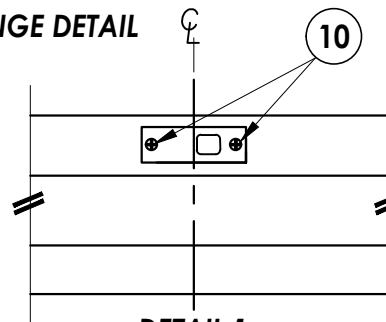
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

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.

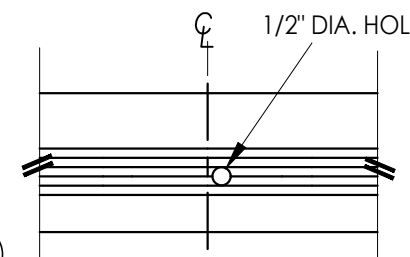


HINGE DETAIL



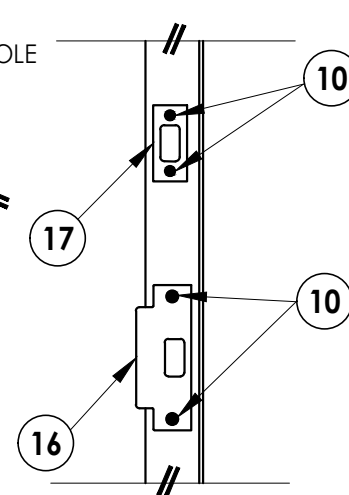
DETAIL 1

Flip bolt strike plate
@ head



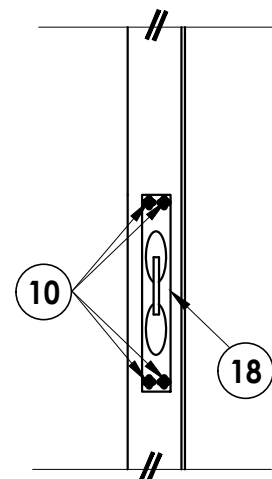
DETAIL 2

Flip bolt holes
@ sill



LATCH & DEADBOLT DETAIL

161 Latch & Deadbolt

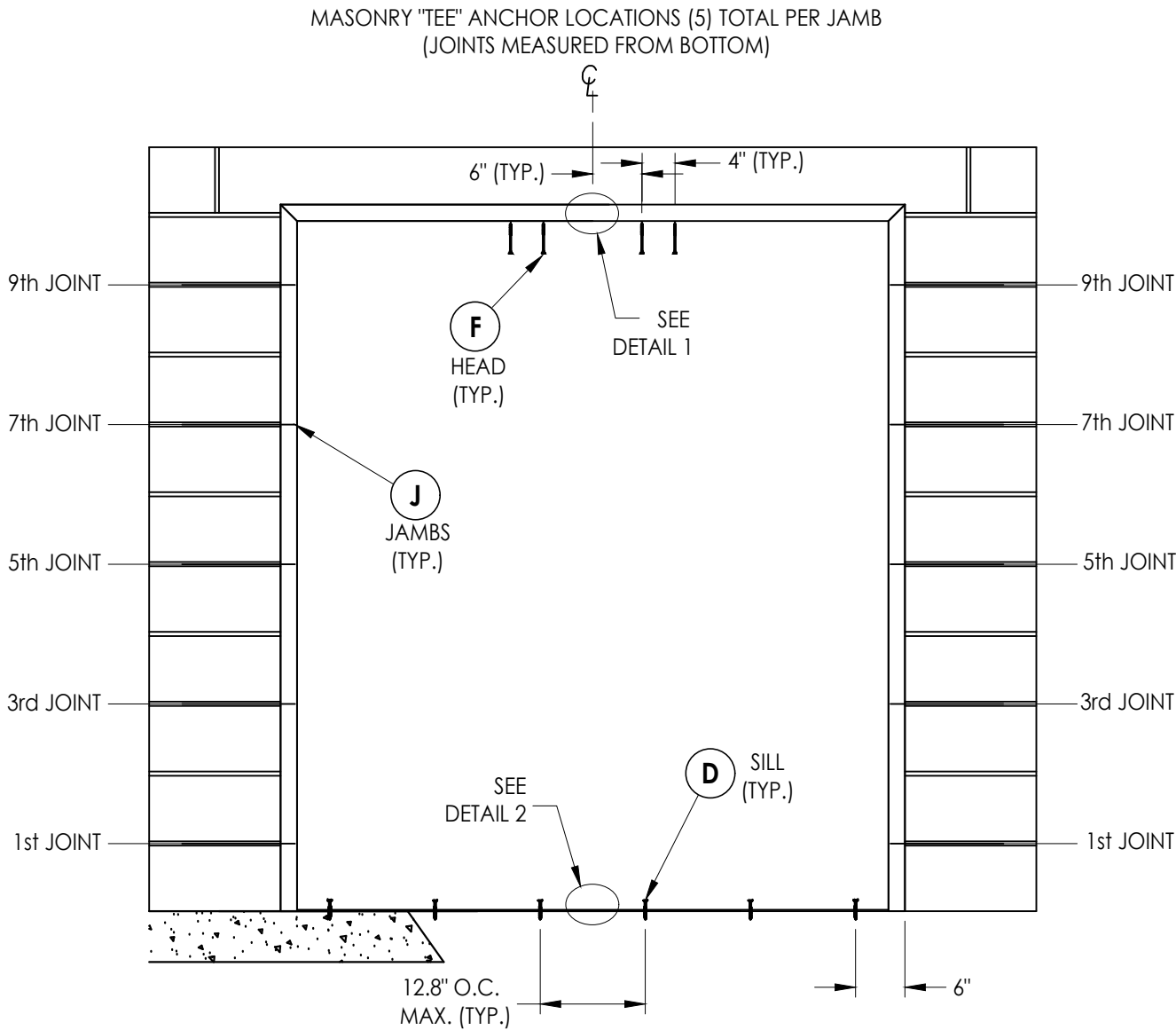
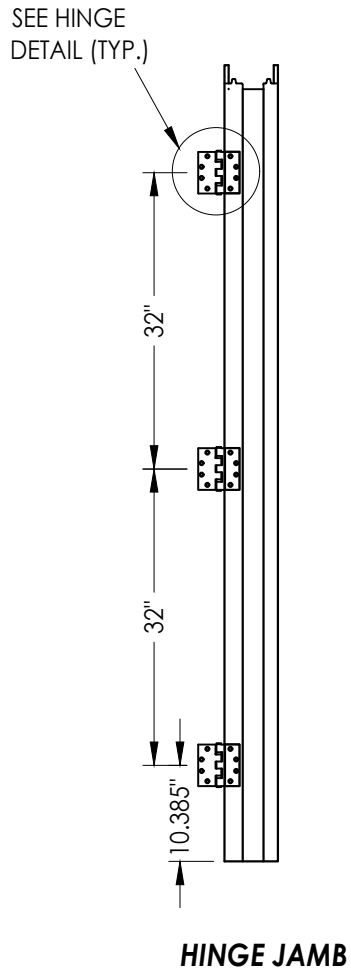


FLIP BOLT DETAIL

1/2" dia. bolt

[illegible]

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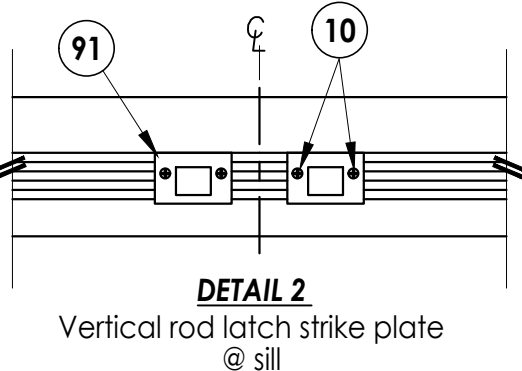
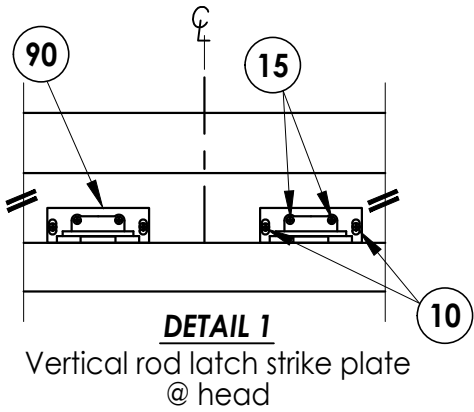
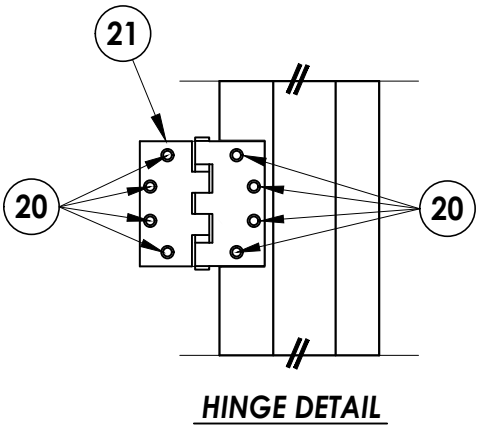


- CONCRETE ANCHOR NOTES:
1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
 2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations 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.
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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.

FRAME ANCHORING
Masonry Construction
Masonry "Tee" Anchors



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

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

REVISIONS

NO.	DATE	DESCRIPTION
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

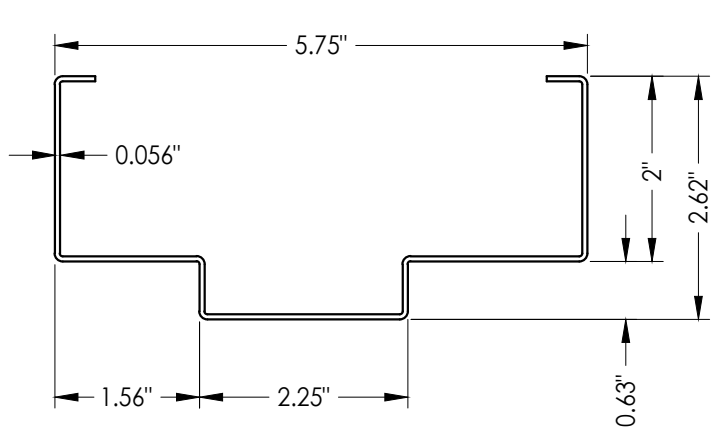
CHK. BY: RW

DRAWING NO.: FL-41130.6

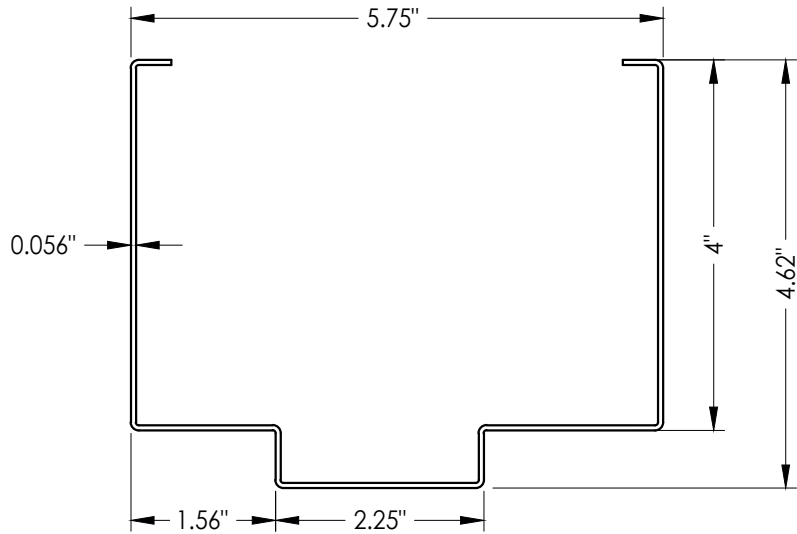
SHEET 7 OF 9

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

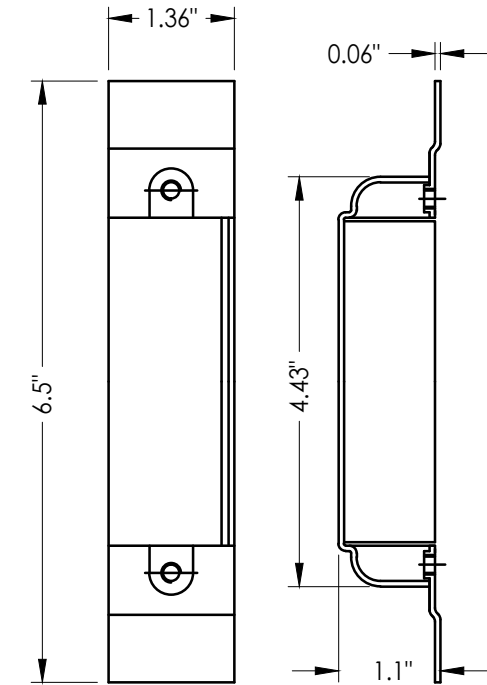
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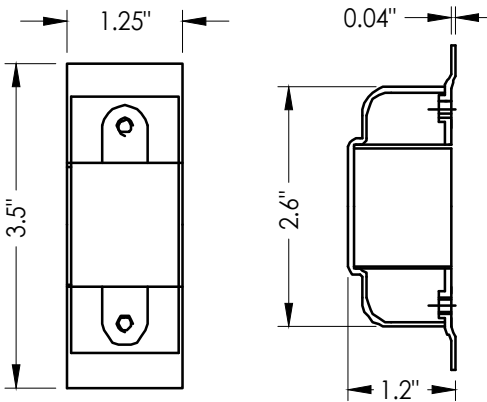
26 HOLLOW METAL FRAME
2" HEAD



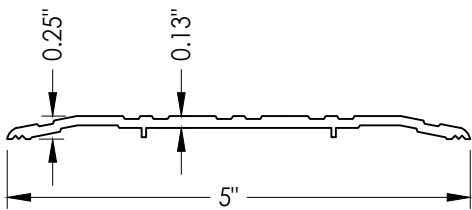
26 HOLLOW METAL FRAME
4" HEAD



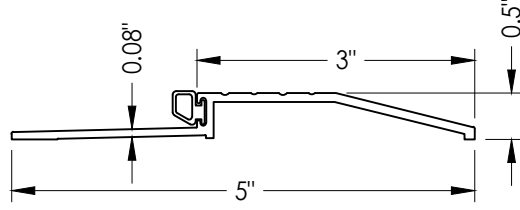
30 DOOR LATCH REINFORCEMENT



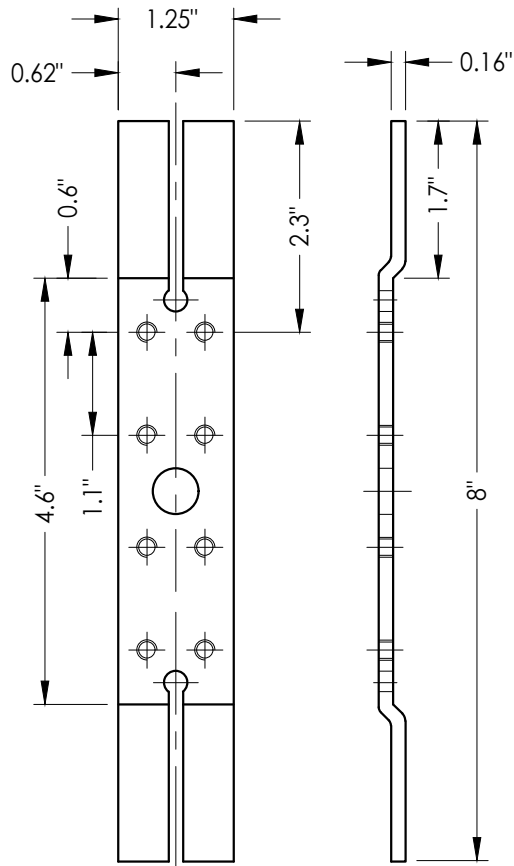
31 DOOR DEADBOLT REINFORCEMENT



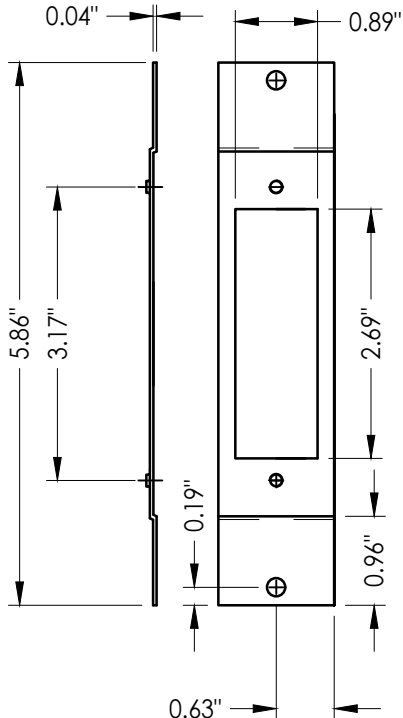
41 THRESHOLD
Pemko 271



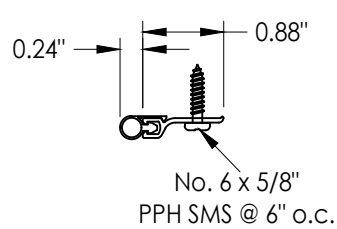
42 THRESHOLD
Pemko 2001P



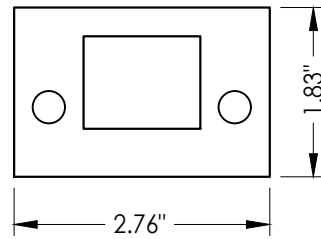
22 DOOR HINGE REINFORCEMENT



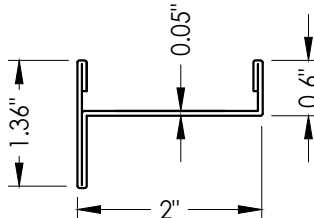
27 FRAME LATCH STRIKE REINFORCEMENT



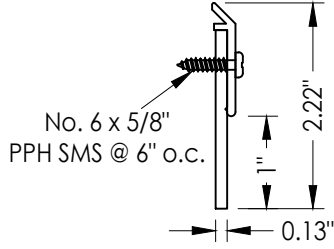
8 WEATHERSTRIP
Pemko 303A



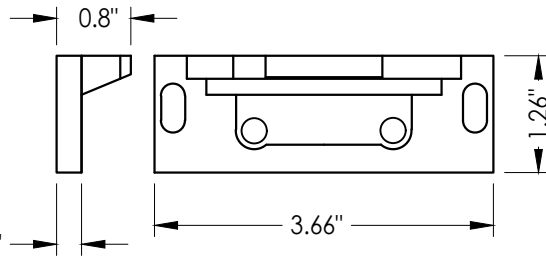
91 VERTICAL ROD LATCH STRIKE PLATE
@ Sill



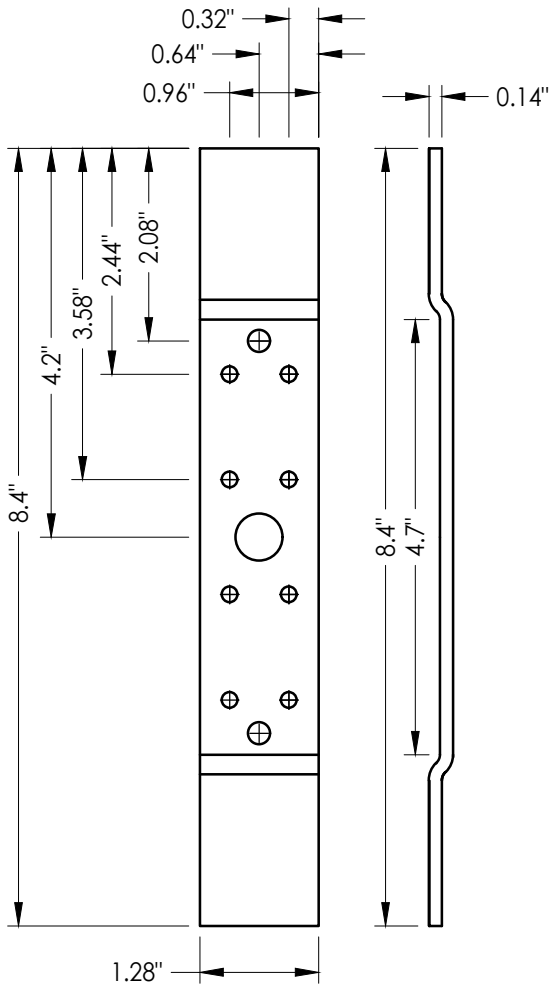
87 ASTRAGAL



11 DOOR SWEEP
Pemko 3151



90 VERTICAL ROD LATCH STRIKE PLATE
@ Head



28 FRAME HINGE REINFORCEMENT

Documents Prepared By:
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PRODUCT:
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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
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DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-41130.6
SHEET 8 OF 9

