



6605 Flotilla Street
City of Commerce
CA 90040

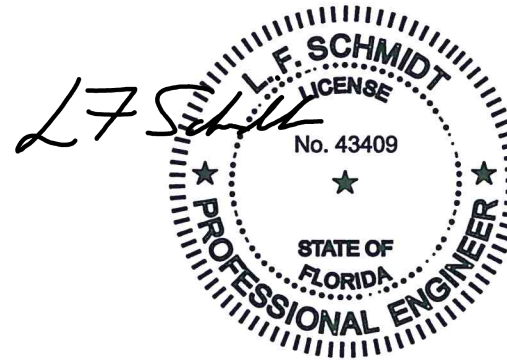
"7700-V Series"
FIRE EXIT DEVICE
in a
STEEL COMMERCIAL DOOR

OUTSWING
"IMPACT"

GENERAL NOTES

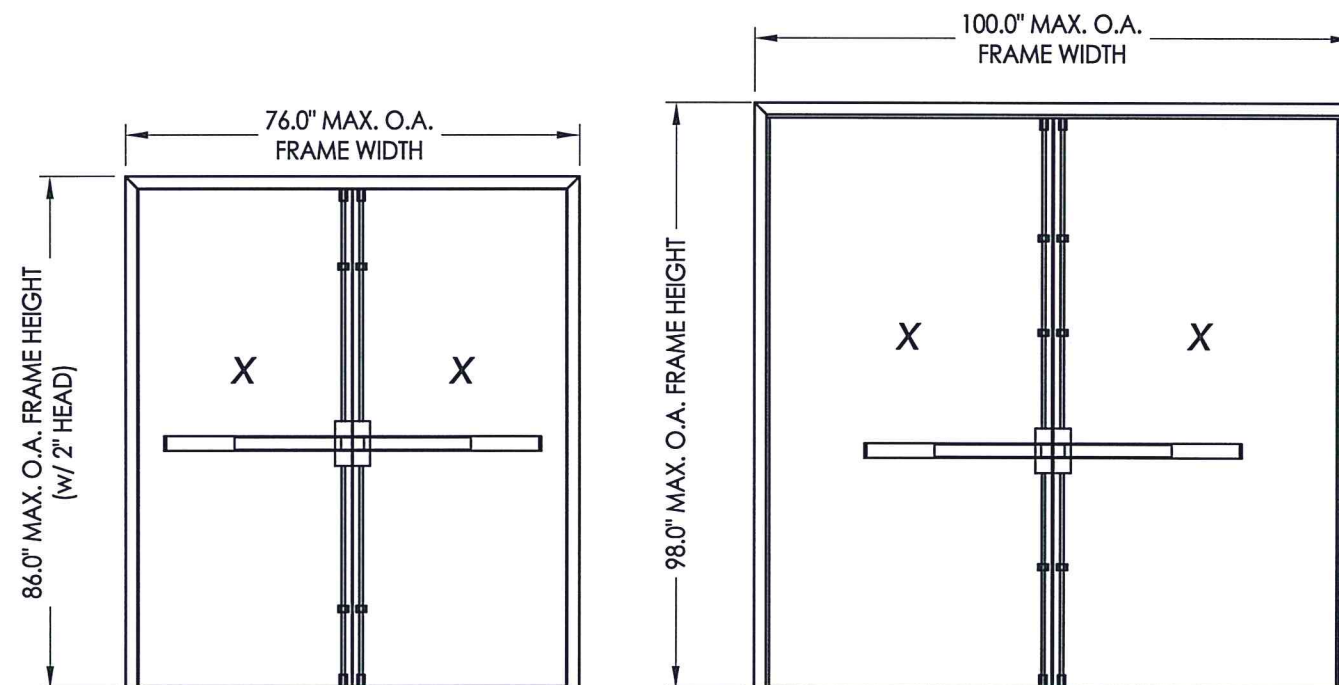
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 excludes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. This product has been tested in the door panels as specified in this approval. Substitution into a similar product may be approved for use by the local Authority Having Jurisdiction. In all cases, the steel door used must possess a comparable current Florida Statewide product approval. The door panel size and design pressure (DP) rating shall not exceed the sizes and DP ratings shown in this approval or the steel side hinged swing door approval being used.
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	"7700-V Series" details
3	Door panel details (7' door panel)
4	Door panel details (8' door panel)



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



"7700-V Series" Fire Exit Device w/ Vertical Rods
(Shown on double doors, single doors also approved)

CONFIGURATION	MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE
SINGLE	40.0" x 88.0"	"7700-V SERIES" (CAL-ROYAL)	+70.0	-70.0
	52.0" x 98.0"		+50.0	-50.0
DOUBLE	76.0" x 88.0"		+70.0	-70.0
	100.0" x 98.0"		+50.0	-50.0

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

PRODUCT:
CAL-ROYAL
LOCK AND DEADBOLT

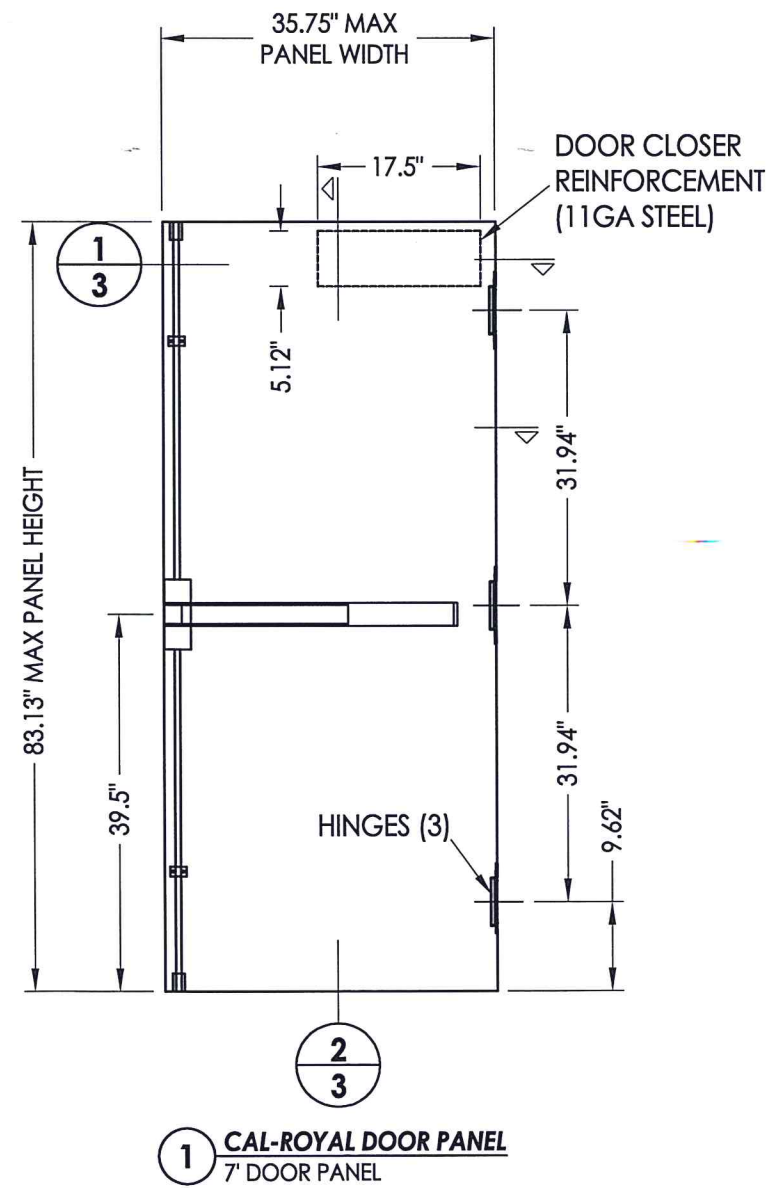
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

	LFS	FBC	8TH ED.	7TH ED.	6TH ED.	5TH ED.	ADDED	DOORS	NO.	DATE
8	7/05/23	UPDATE TO 8TH ED.	(2023)	FBC						
7	11/16/20	UPDATE TO 7TH ED.	(2020)	FBC						
6	9/28/17	UPDATE TO 6TH ED.	(2017)	FBC						
5	1/27/15	UPDATE TO 5TH ED.	(2014)	FBC						
4	8/14/14	ADDED 8' DOORS								
3										
2										
1										

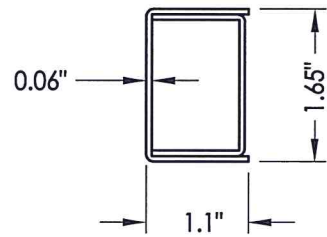
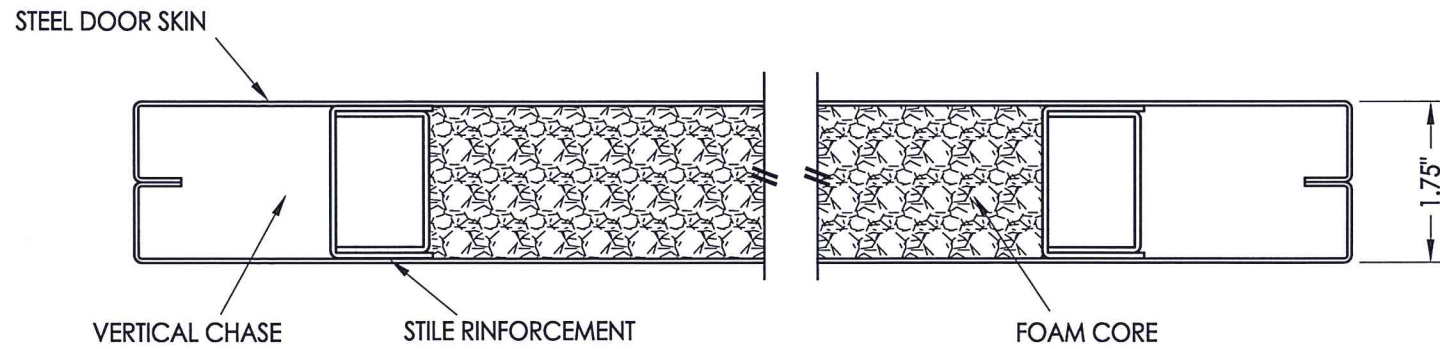
DATE: 7/7/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-13922.4
SHEET 1 OF 4

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

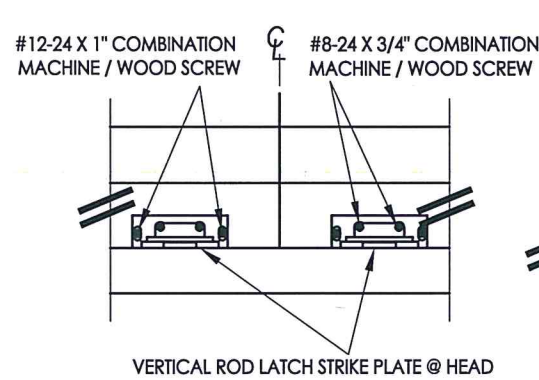
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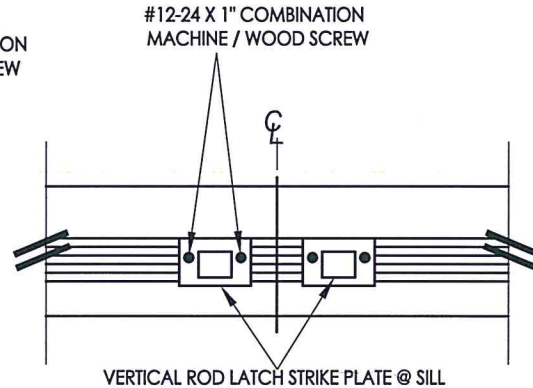
STEEL DOOR SKIN (18 GA.): MIN. 0.045\"



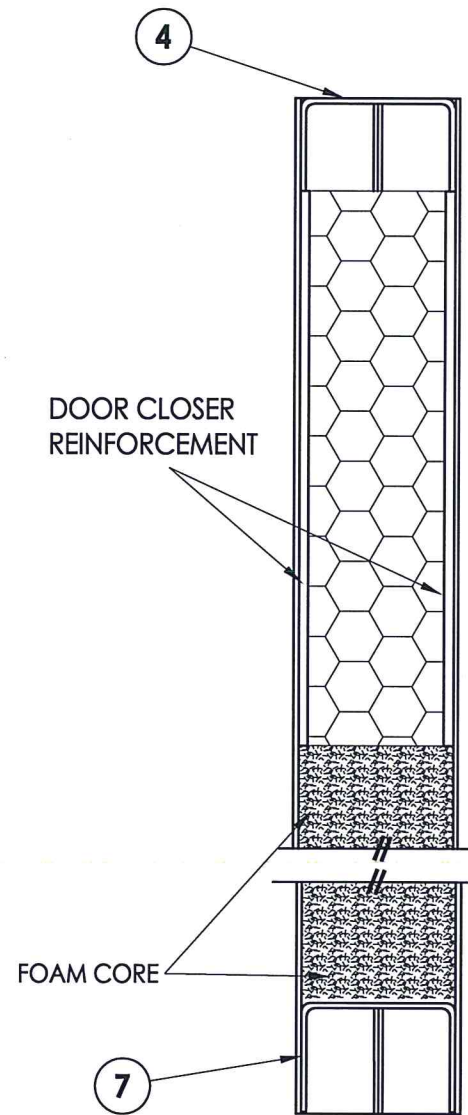
STILE REINFORCEMENT



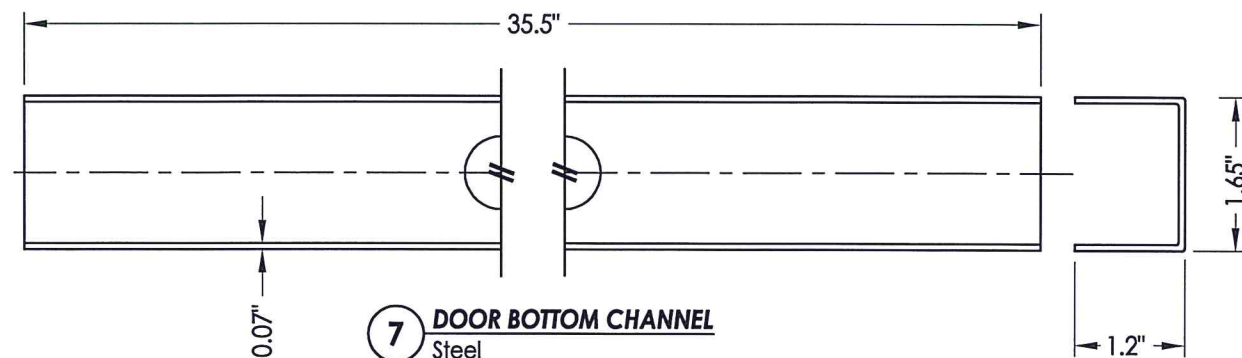
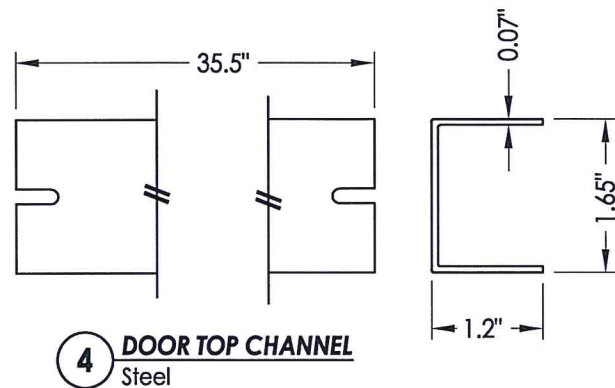
DETAIL 1
Vertical rod latch strike plate
@ head



DETAIL 2
Vertical rod latch strike plate
@ sill



VERTICAL CROSS SECTION



Documents Prepared By:

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P.E. No. 43409

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

PRODUCT:
CAL-ROYAL
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
DOOR, PANEL DETAILS
(7' door panel)

NO.	DATE	REVISIONS
8	7/05/23	UPDATE TO 8TH ED. (2023) FBC
7	11/16/20	UPDATE TO 7TH ED. (2020) FBC
6	1/27/15	UPDATE TO 5TH ED. (2014) FBC
5	1/27/15	UPDATE TO 5TH ED. (2014) FBC
4	8/14/14	ADDED 8' DOORS

DATE: 7/7/10

SCALE: N.T.S.

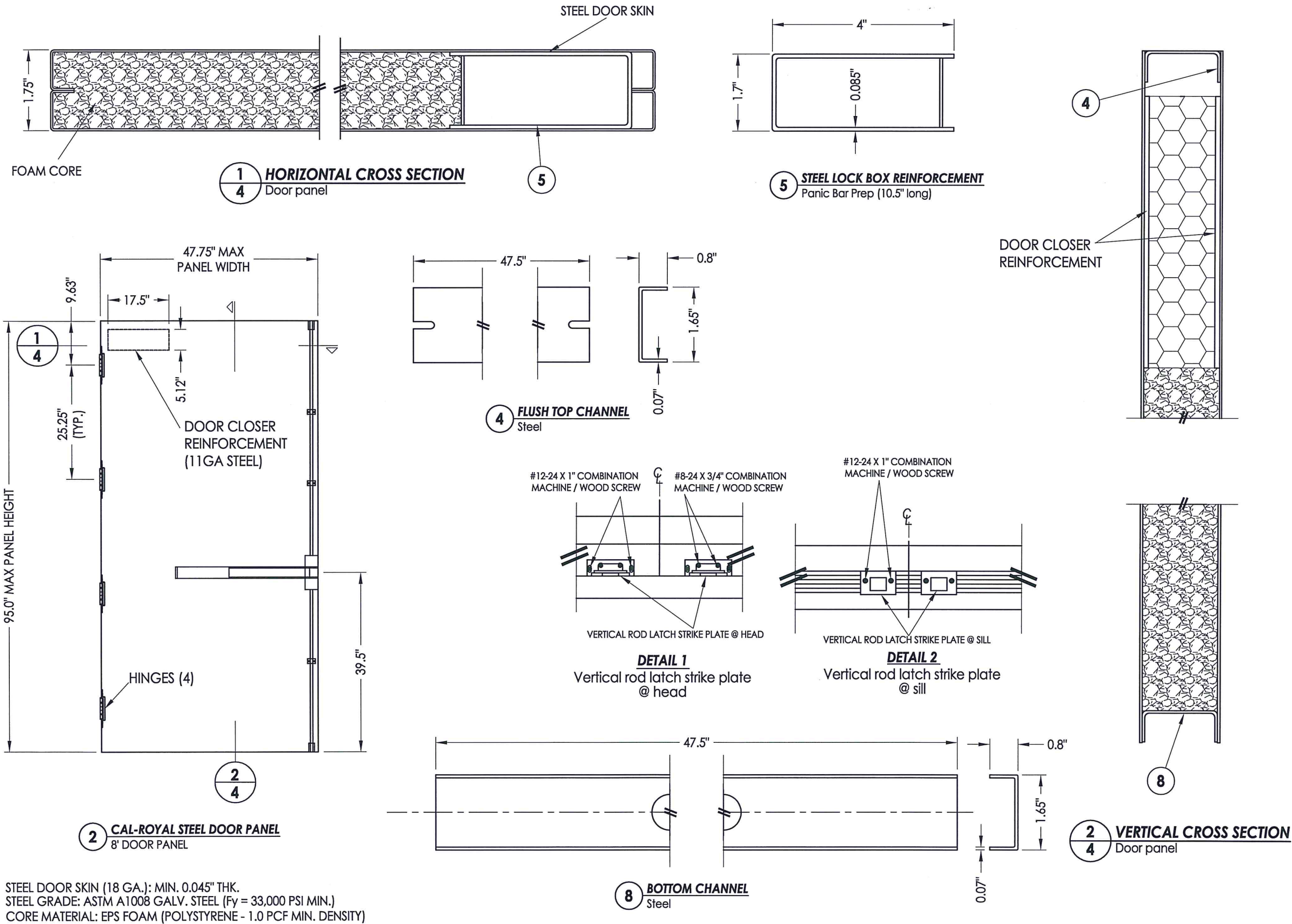
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-13922.4

SHEET 3 OF 4

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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:		CAL-ROYAL		STEEL COMMERCIAL DOOR		PART OR ASSEMBLY:		DOOR PANEL DETAILS		(8' door panel)	
NO.	DATE	REVISIONS	BY	LFS	JK	JK	LFS	BY	LFS	JK	JK
8	7/05/23	UPDATE TO 8TH ED. (2023) FBC	LFS								
7	11/16/20	UPDATE TO 7TH ED. (2020) FBC	LFS								
6	1/27/15	UPDATE TO 5TH ED. (2014) FBC	JK								
5	1/27/15	UPDATE TO 5TH ED. (2014) FBC	JK								
4	8/14/14	ADDED 8' DOORS	LFS								
NO.	DATE	REVISIONS	BY	LFS	JK	JK	LFS	BY	LFS	JK	JK

DATE: 5/25/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-13922.4
SHEET 4 OF 4