



6605 Flotilla Street
City of Commerce
CA 90040

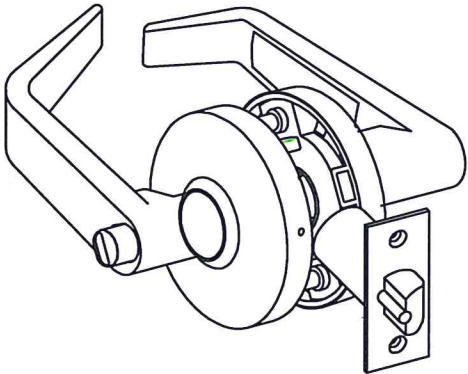
"Pioneer Series" CYLINDRICAL LOCK &
"T300 Series" DEADBOLT
in a
STEEL COMMERCIAL DOOR

INSWING / OUTSWING
"IMPACT"

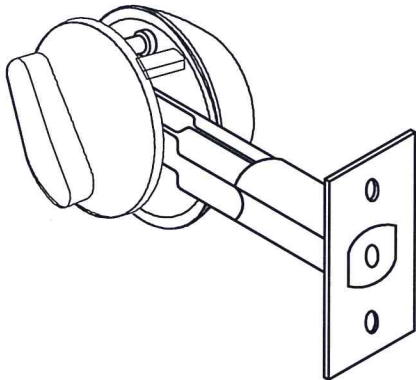
GENERAL NOTES

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.

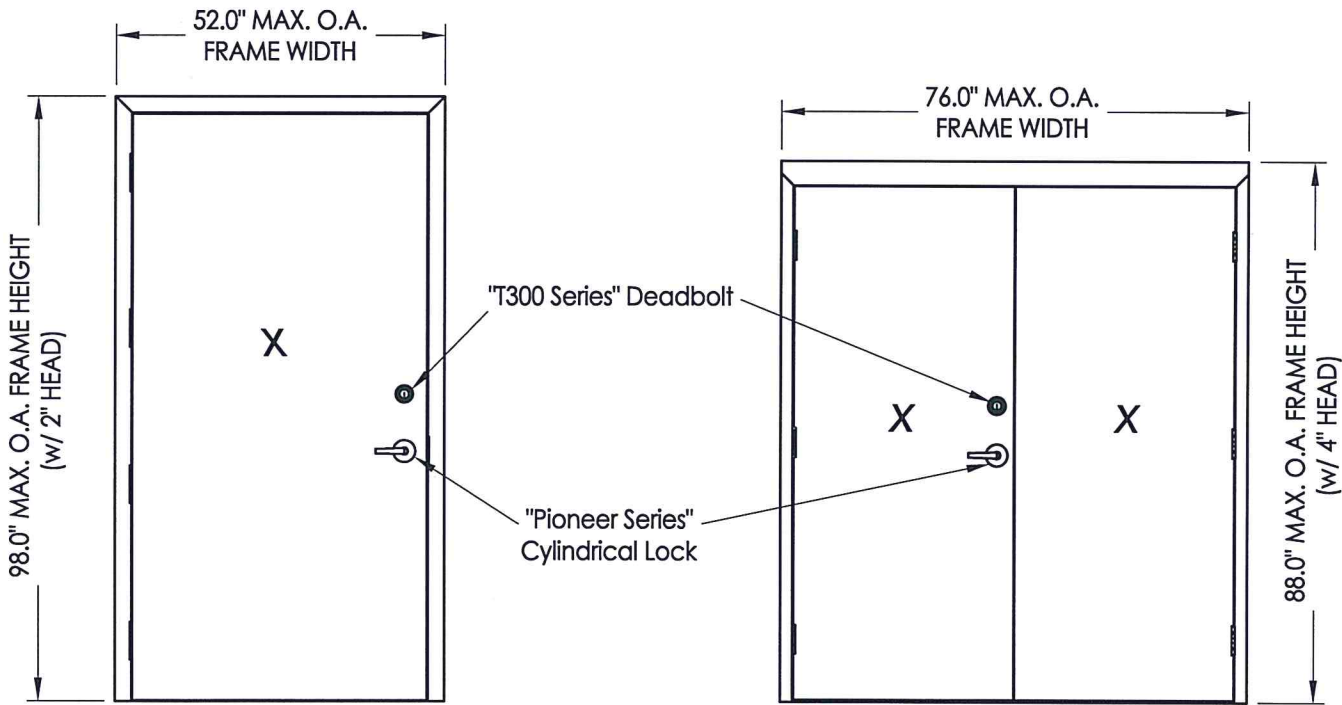
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1	Typical elevation, design pressures & general notes
2	"Pioneer Series" lock details
3	"T300 Series" deadbolt details
4	Door panel details (7' active panel)
5	Door panel details (7' inactive panel)
6	Door panel details (8' active panel)



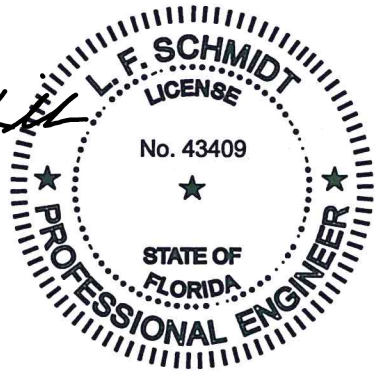
"Pioneer Series" Cylindrical Lock



"T300 Series" Deadbolt



CONFIGURATION	MAX FRAME DIMENSION	LOCK & DEADBOLT TYPE	DESIGN PRESSURE (PSF)			
			INSWING		OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
SINGLE	40.0" x 88.0"	"Pioneer Series" Cylindrical Lock & "T300 Series" Deadbolt (CAL-ROYAL)	+55.0	-55.0	+80.0	-80.0
SINGLE	52.0" x 98.0"		N/A	N/A	+80.0	-80.0
DOUBLE	76.0" x 88.0"		+55.0	-55.0	+55.0	-55.0



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

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:

CAL-ROYAL
LOCK AND DEADBOLT

LFS

LFS

JK

JK

LFS

BY

8 7/05/23 UPDATE TO 8TH ED. (2023) FBC

7 11/16/20 UPDATE TO 7TH ED. (2020) FBC

6 9/27/17 UPDATE TO 6TH ED. (2017) FBC

5 1/27/15 UPDATE TO 5TH ED. (2014) FBC

4 8/14/14 ADDED 52"x98" SINGLE OUTSWING

NO. DATE

DATE:

7/7/10

SCALE:

N.T.S.

DWG. BY:

JK

CHK. BY:

LFS

DRAWING NO.:

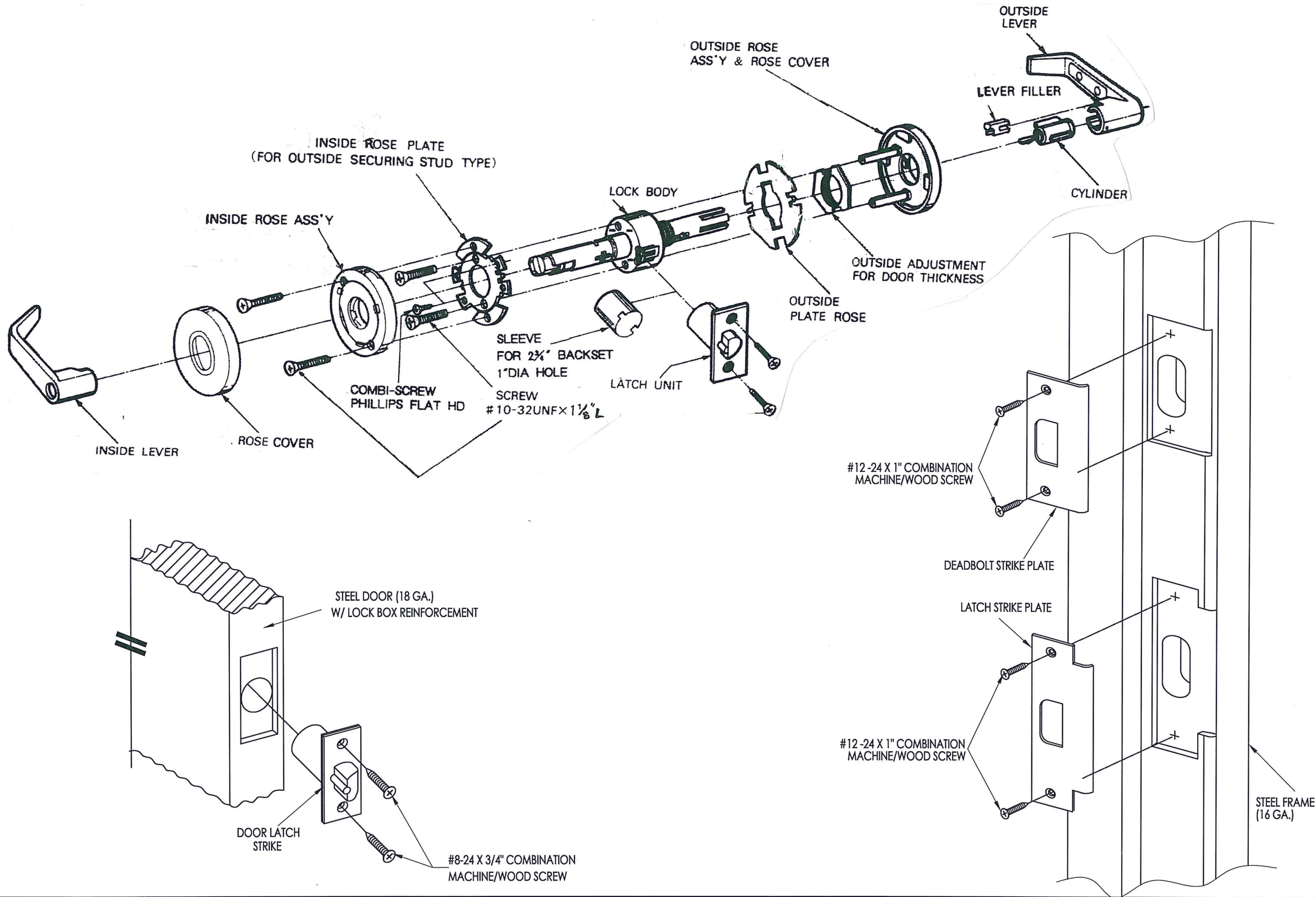
FL-13922.2

SHEET

1 OF 6

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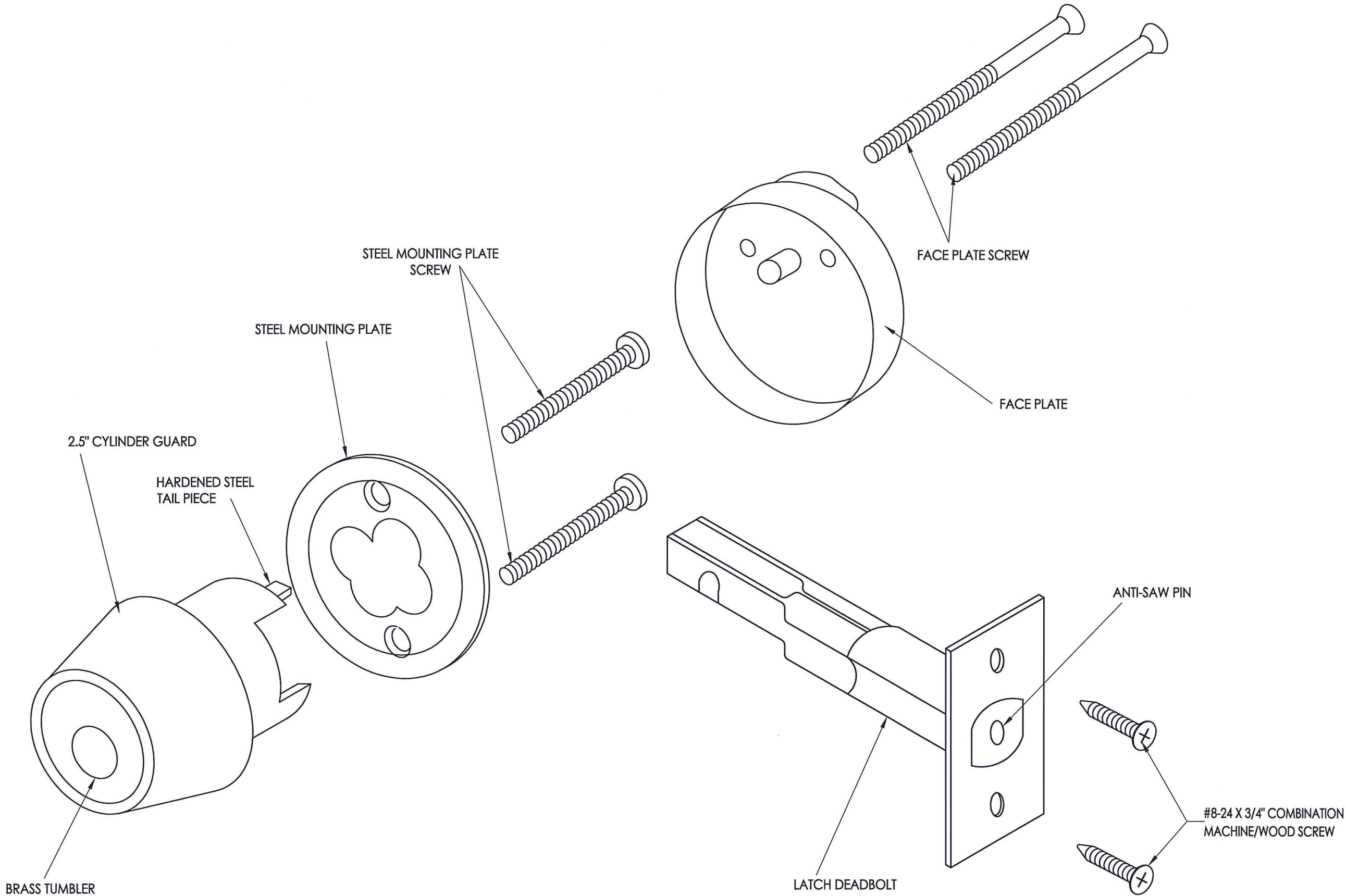
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Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: CAL-ROYAL LOCK & DEADBOLT		PART OR ASSEMBLY: "PIONEER SERIES" LOCK DETAILS	
8	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	BY
7	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	JK
6	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
5	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
4	8/14/14	ADDED 52"x98" SINGLE OUTSWING		LFS	
NO.		DATE	REVISIONS		
DATE: 7/7/10					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-13922.2					
SHEET 2 OF 6					

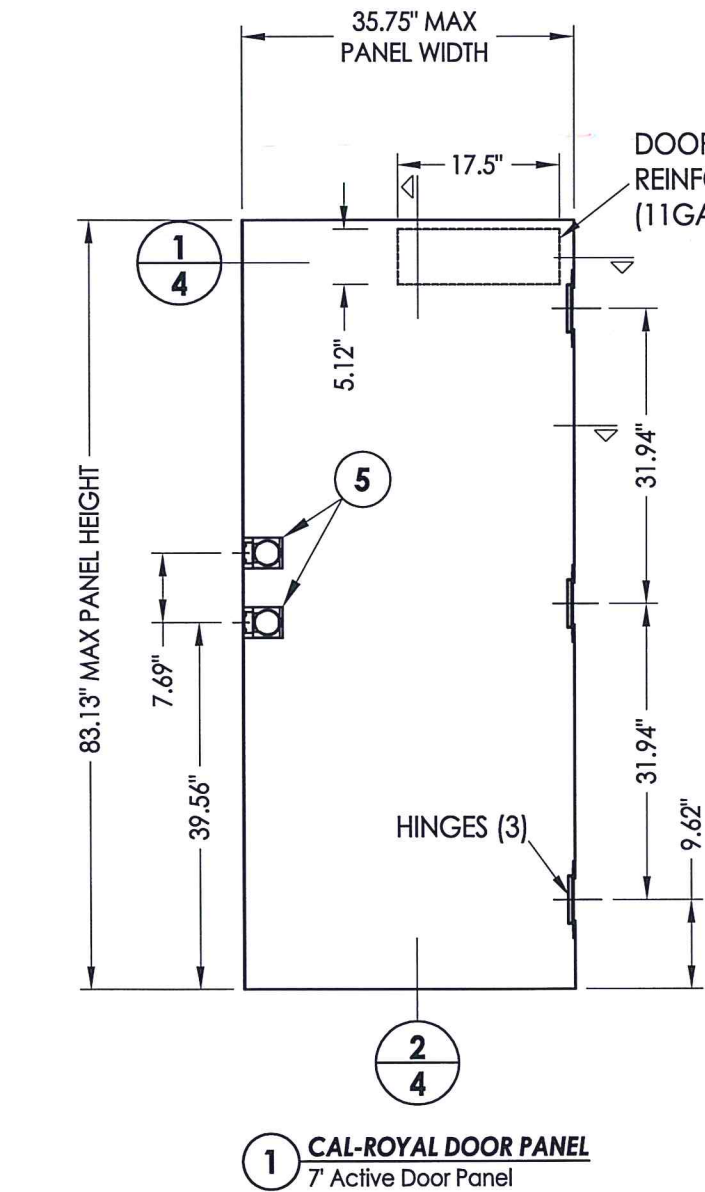
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FBPE Registry No. 9813

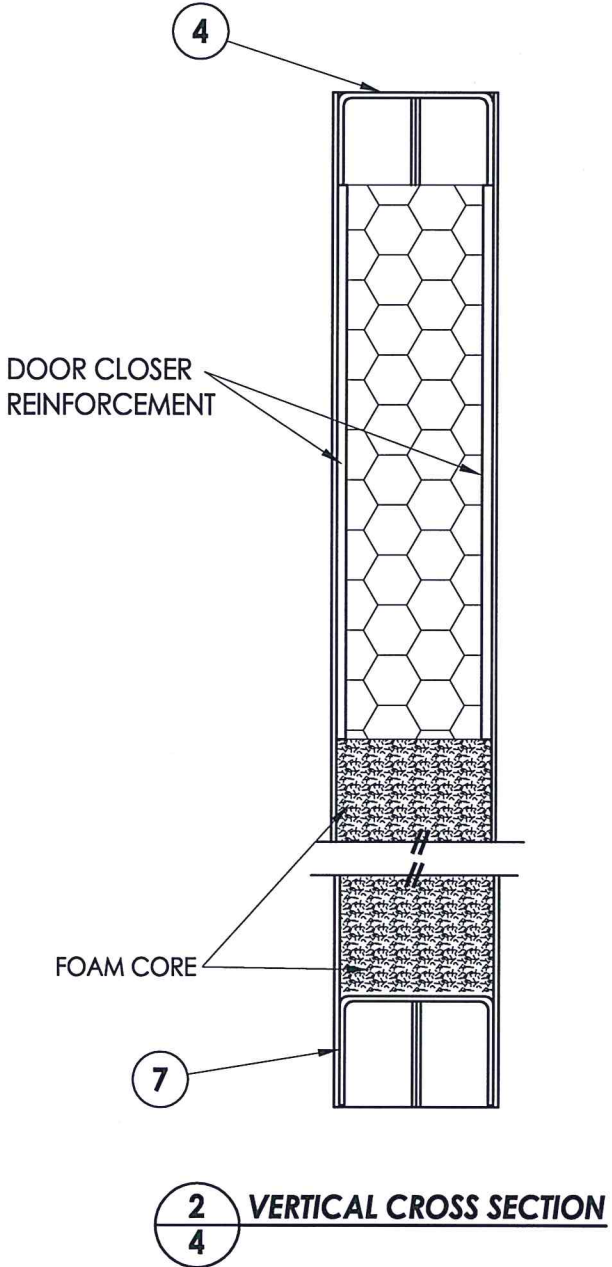
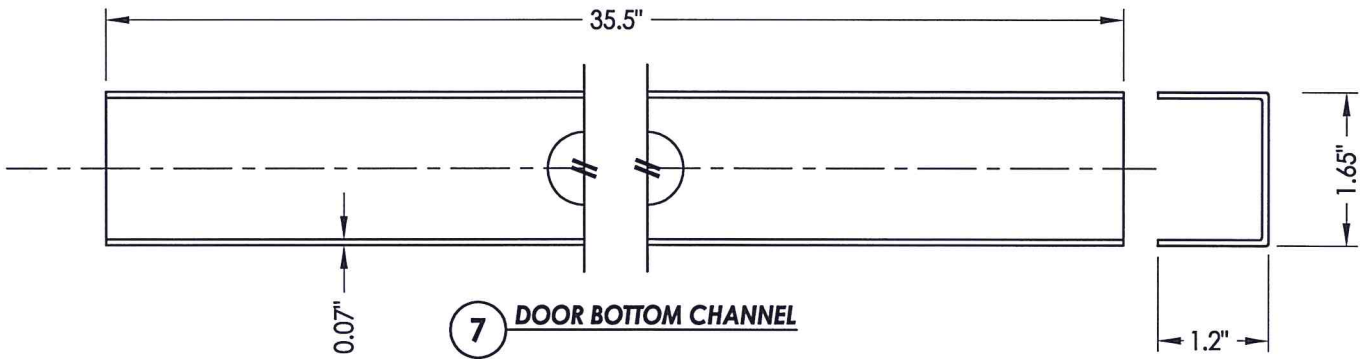
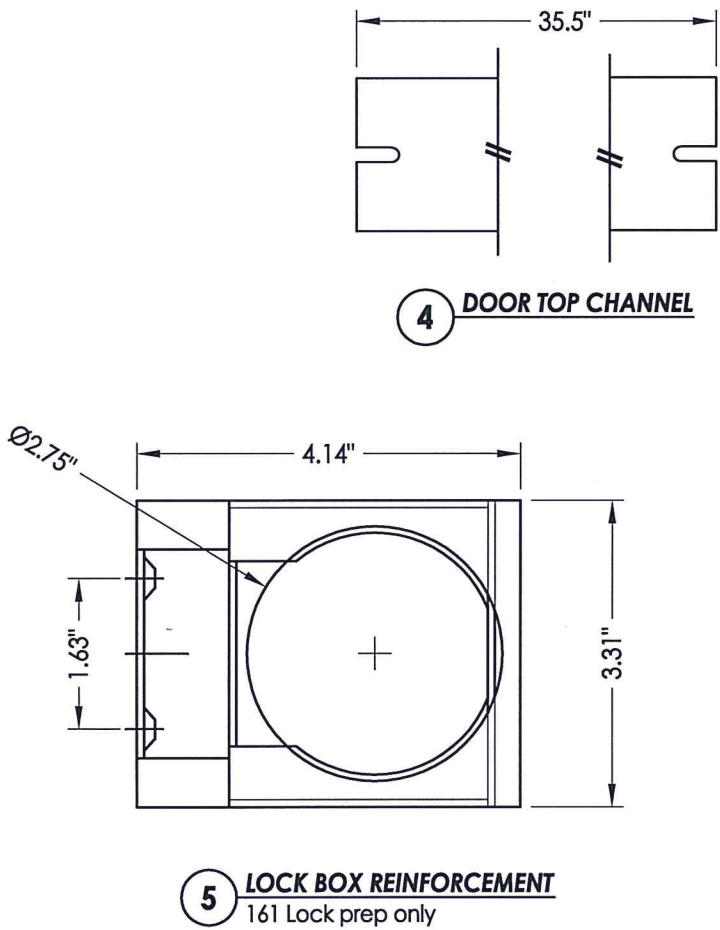
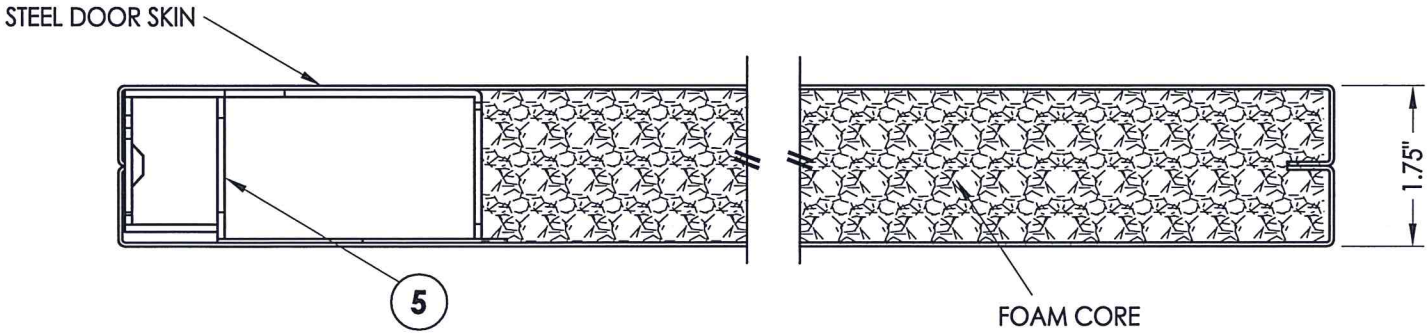


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PRODUCT: CAL-ROYAL LOCK AND DEADBOLT		PART OR ASSEMBLY: "T300 Series" DEADBOLT DETAILS		
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7	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
6	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	JK
5	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK
4	8/14/14	ADDED 52"x98" SINGLE OUTSWING	LFS	BY
NO.		DATE		REVISIONS
DATE: 7/7/10				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-13922.2				
SHEET 3 OF 6				

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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)



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FBPE Registry No. 9813

PRODUCT: CAL-ROYAL
LOCK AND DEADBOLT

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

	LFS	FBC	FBC	FBC	JK	JK	LFS	BY
8	7/05/23	UPDATE TO 8TH ED. (2023)	UPDATE TO 7TH ED. (2020)	UPDATE TO 6TH ED. (2017)	UPDATE TO 5TH ED. (2014)	ADDED 52"x98" SINGLE OUTSWING		
7	11/16/20							
6	9/27/17							
5	1/27/15							
4	8/14/14							
NO.	DATE							

DATE: 7/7/10

SCALE: N.T.S.

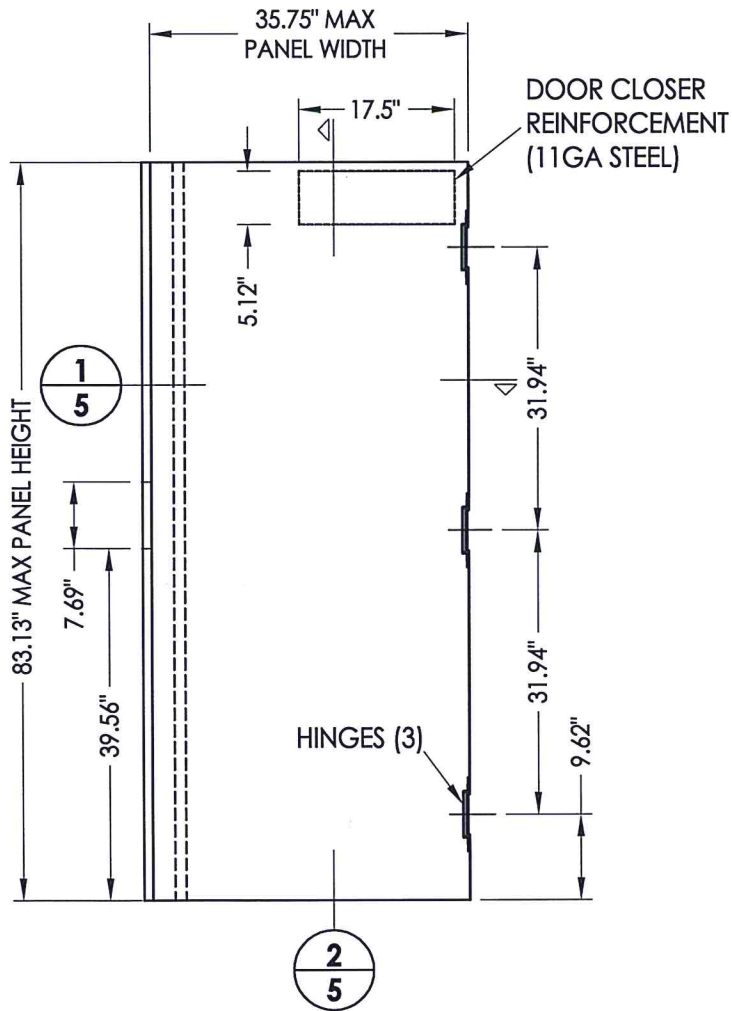
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CHK. BY: LFS

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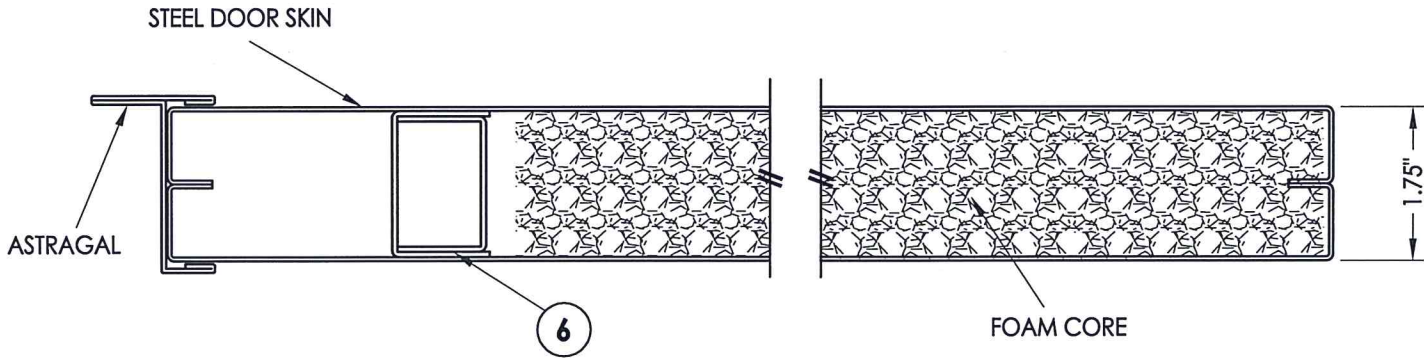
SHEET 4 OF 6

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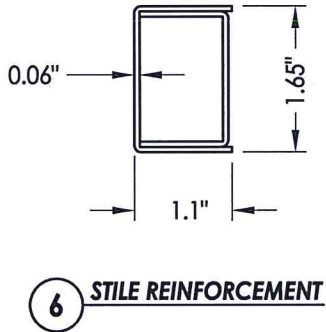


2 CAL-ROYAL DOOR PANEL
7' Inactive Door Panel w/ Flushbolt
@ head and sill

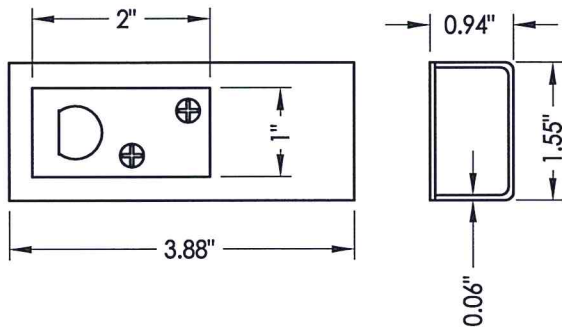
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



**1
5 HORIZONTAL CROSS SECTION**

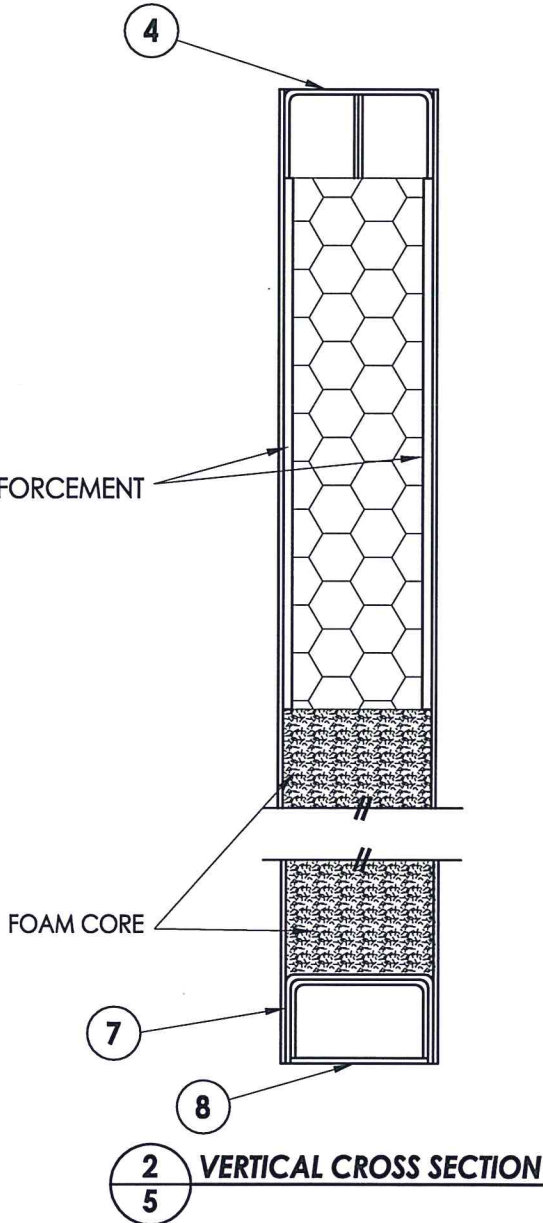


6 STILE REINFORCEMENT



8 DOOR BOTTOM REINFORCEMENT
w/ Strike Plate

DOOR CLOSER REINFORCEMENT



**2
5 VERTICAL CROSS SECTION**

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CAL-ROYAL
LOCK AND DEADBOLT

RW BUILDING CONSULTANTS, INC.

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Phone No.: 813.659.9197
FBPE Registry No. 9813

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5	1/27/15	UPDATE TO 5TH ED. (2014) FBC JK
4	8/14/14	ADDED 52"x98" SINGLE OUTSWING LFS

DATE: 7/7/10

SCALE: N.T.S.

DWG. BY: JK

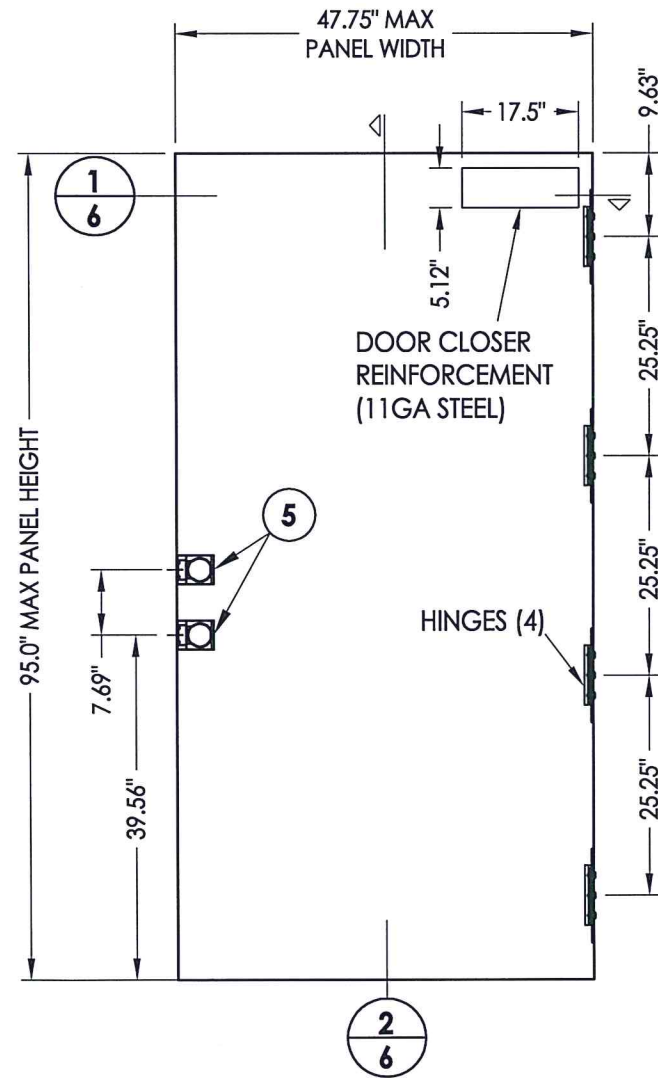
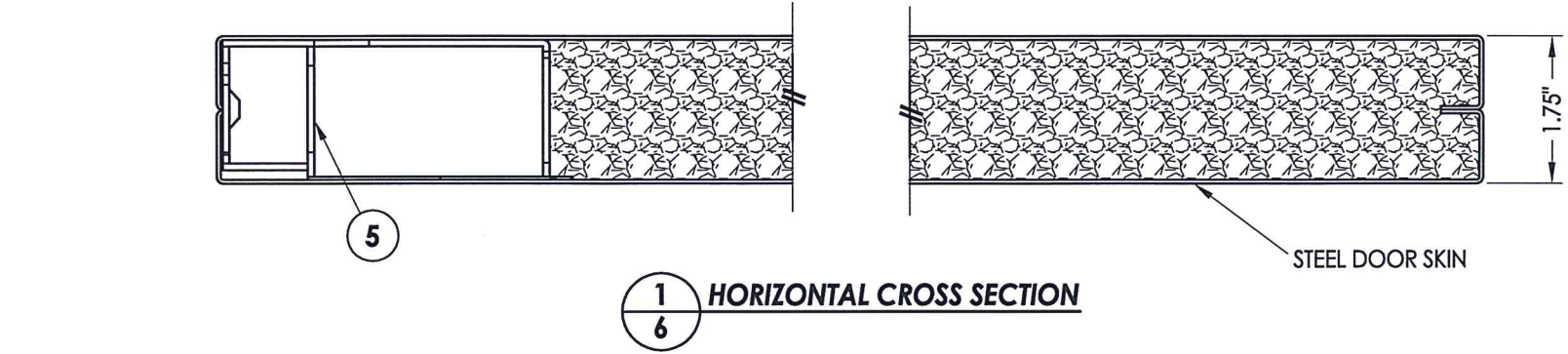
CHK. BY: LFS

DRAWING NO.:

FL-13922.2

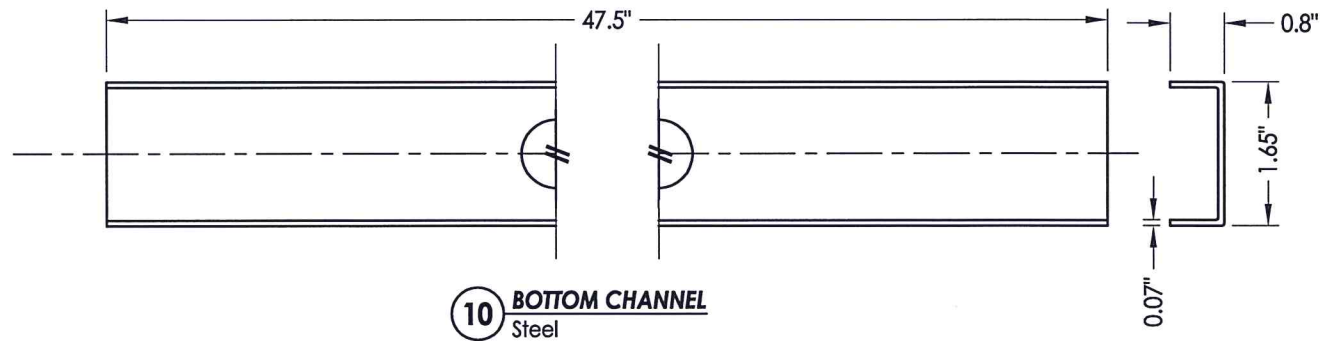
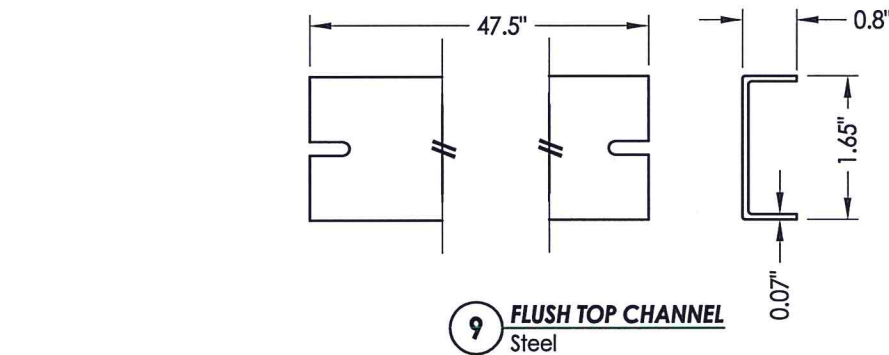
SHEET 5 OF 6

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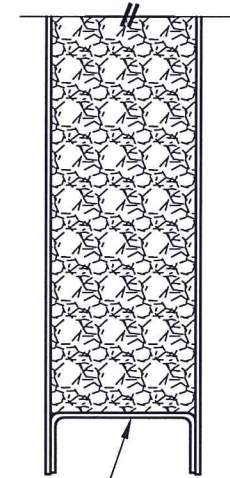
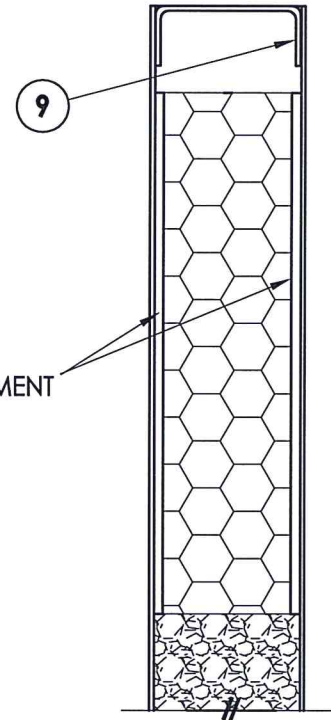


3 **CAL-ROYAL STEEL DOOR PANEL**
8' Active Door Panel

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)



DOOR CLOSER REINFORCEMENT



1
6

VERTICAL CROSS SECTION

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT: CAL-ROYAL
LOCK AND DEADBOLT
PART OR ASSEMBLY:
DOOR PANEL DETAILS
(8' active panel)

NO.	DATE	REVISIONS
8	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
7	11/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
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5	1/27/15	UPDATE TO 5TH ED. (2014) FBC JK
4	8/14/14	ADDED 52"x98" SINGLE OUTSWING LFS
NO.	DATE	BY

DATE: 7/7/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-13922.2
SHEET 6 OF 6