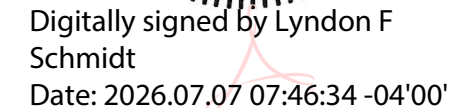




**"Pioneer Series" CYLINDRICAL LOCK &  
"T300 Series" DEADBOLT  
in a  
STEEL COMMERCIAL DOOR  
INSWING / OUTSWING  
"IMPACT"**



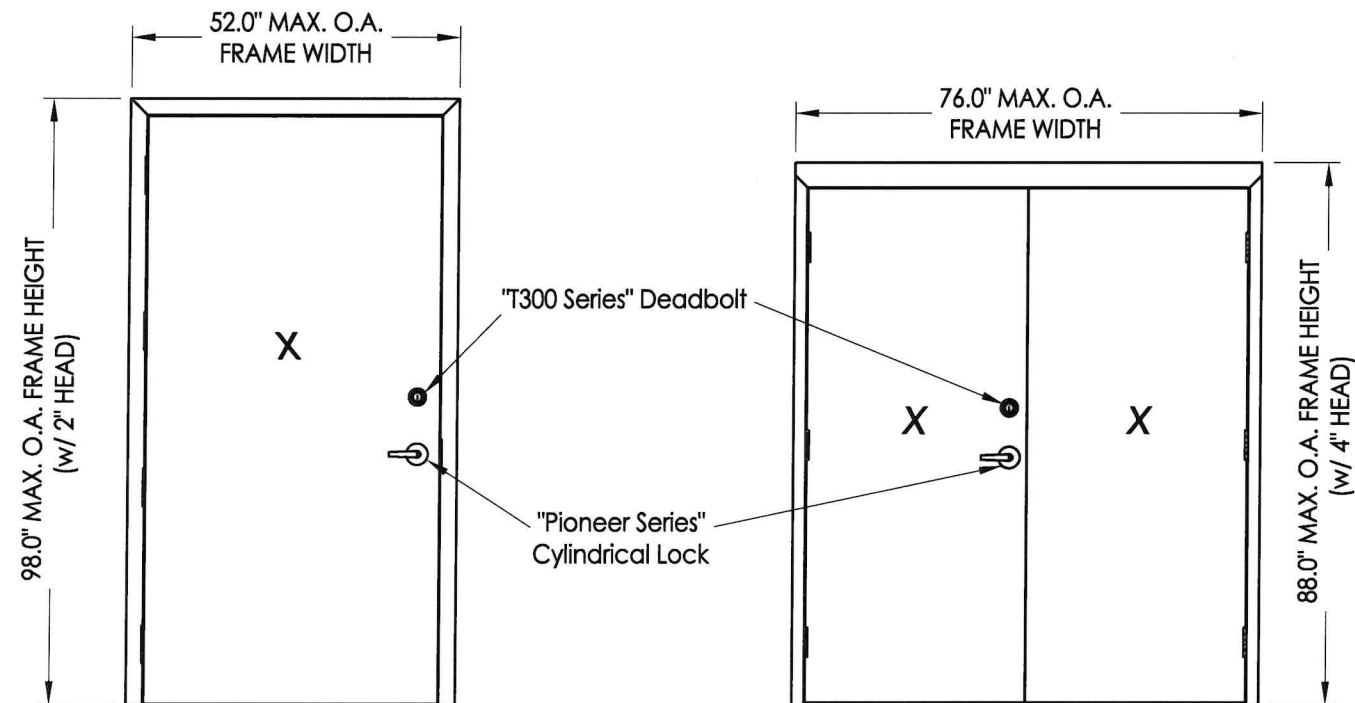
This item has been digitally signed and sealed by  
**L. F. Schmidt, P.E.** on the date adjacent to the seal.

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**

### GENERAL NOTES

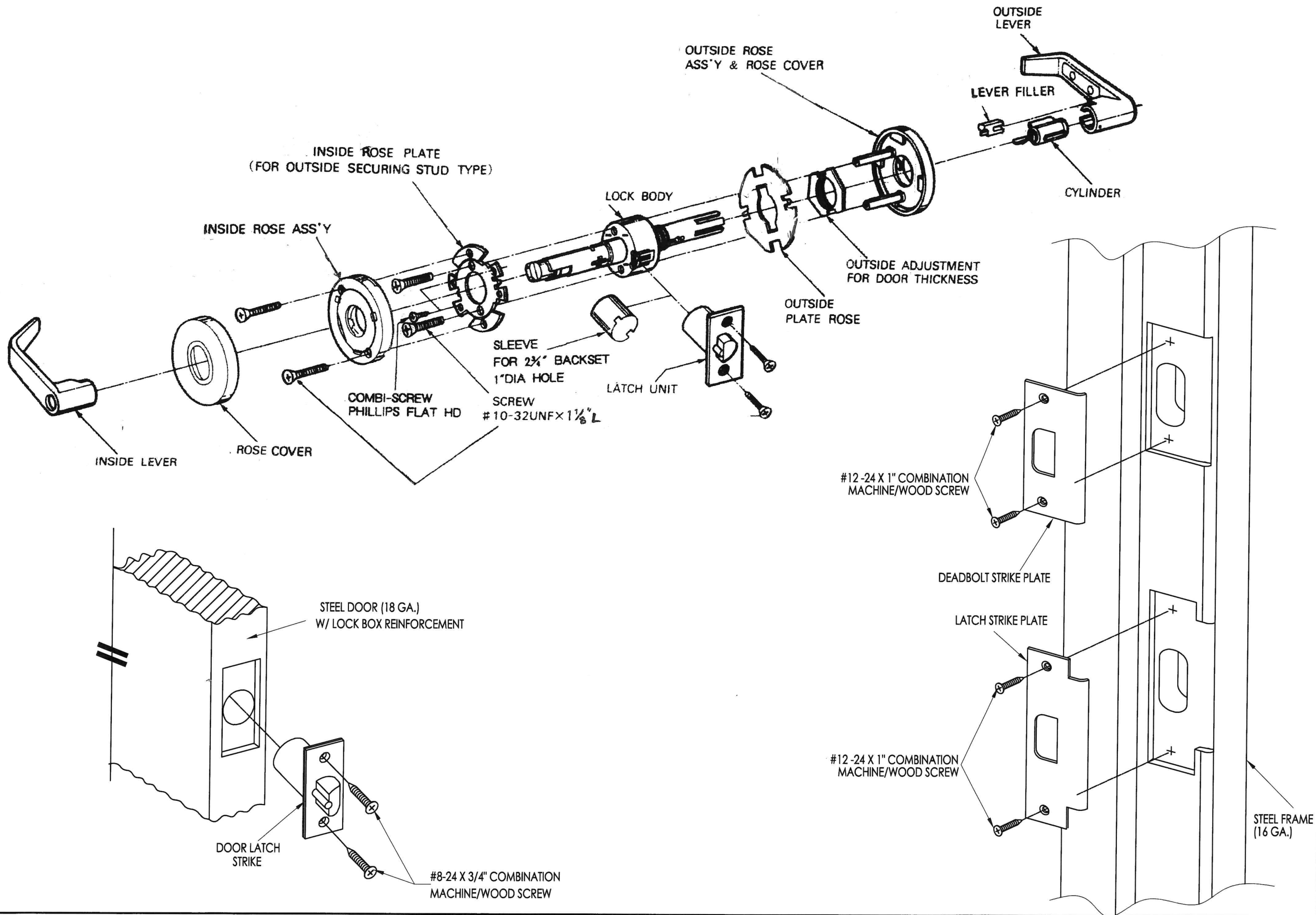
1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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. 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.
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                 | "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)                |

| CONFIGURATION | MAX<br>FRAME<br>DIMENSION | LOCK & DEADBOLT<br>TYPE                                                         | DESIGN PRESSURE (PSF) |          |          |          |
|---------------|---------------------------|---------------------------------------------------------------------------------|-----------------------|----------|----------|----------|
|               |                           |                                                                                 | INSWING               |          | OUTSWING |          |
|               |                           |                                                                                 | POSITIVE              | NEGATIVE | POSITIVE | NEGATIVE |
| SINGLE        | 40.0" x 88.0"             | "Pioneer Series"<br>Cylindrical Lock &<br>"T300 Series" Deadbolt<br>(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    |

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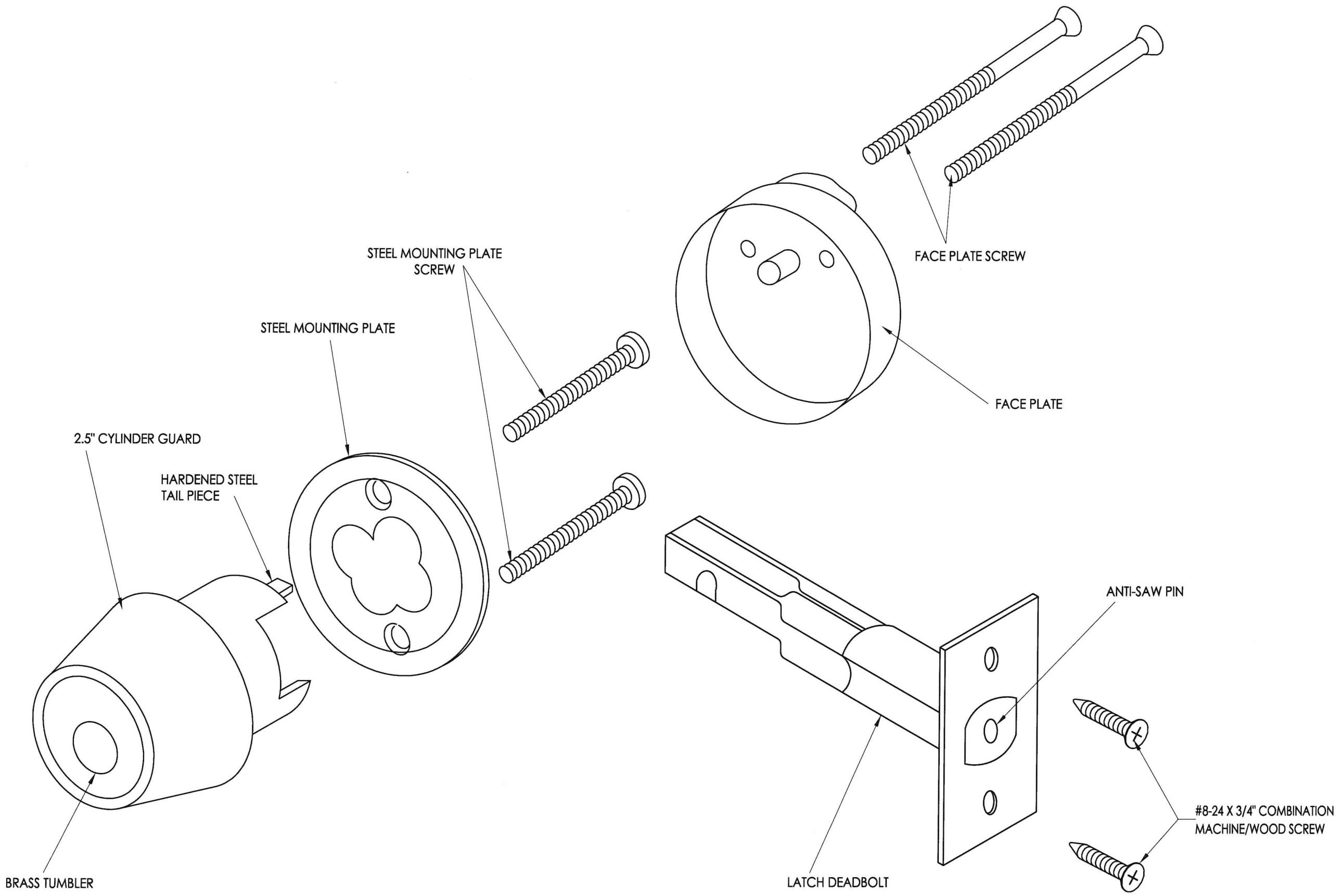


| PRODUCT:                |          | CAL-ROYAL                     |                          | LOCK & DEADBOLT |      |
|-------------------------|----------|-------------------------------|--------------------------|-----------------|------|
| PART OR ASSEMBLY:       |          | "PIONEER SERIES" LOCK DETAILS |                          | REVISIONS       |      |
| NO.                     | DATE     | BY                            | DATE                     | BY              | DATE |
| 8                       | 7/02/26  | LFS                           | UPDATE TO 9TH ED. (2026) | FBC             | LFS  |
| 7                       | 7/05/23  | LFS                           | UPDATE TO 8TH ED. (2023) | FBC             | LFS  |
| 6                       | 11/16/20 | LFS                           | UPDATE TO 7TH ED. (2020) | FBC             | LFS  |
| DATE: 5/12/11           |          |                               |                          |                 |      |
| SCALE: N.T.S.           |          |                               |                          |                 |      |
| DWG. BY: JK             |          |                               |                          |                 |      |
| CHK. BY: LFS            |          |                               |                          |                 |      |
| DRAWING NO.: FL-13922.6 |          |                               |                          |                 |      |
| SHEET 2 OF 6            |          |                               |                          |                 |      |

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

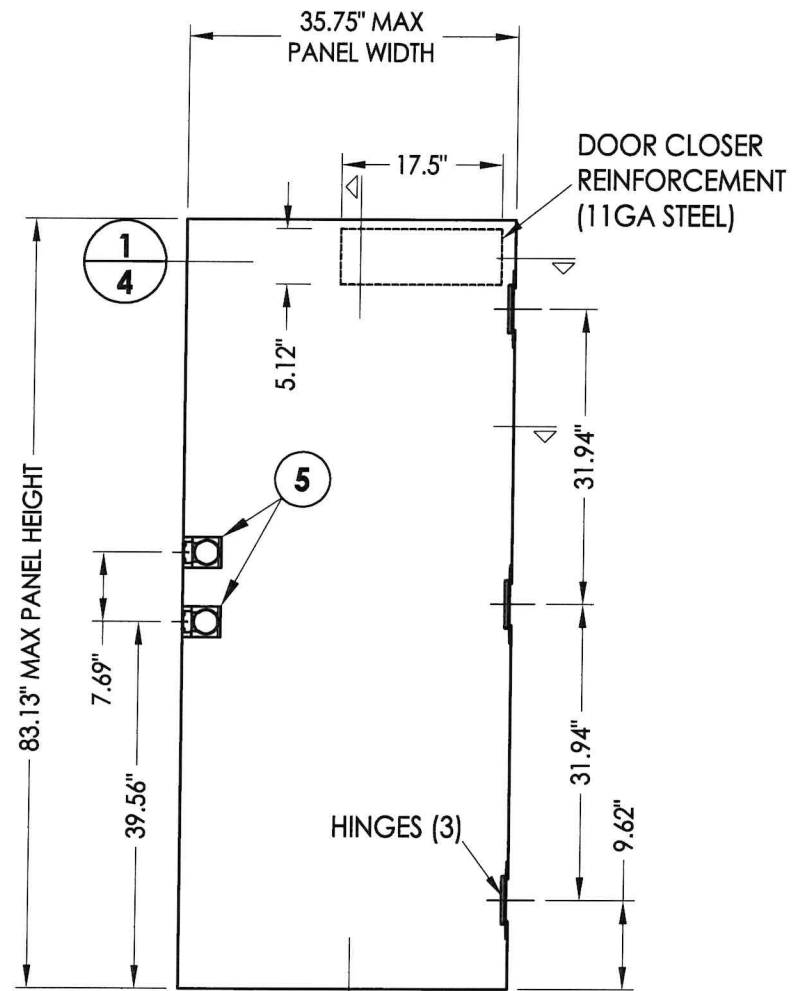
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

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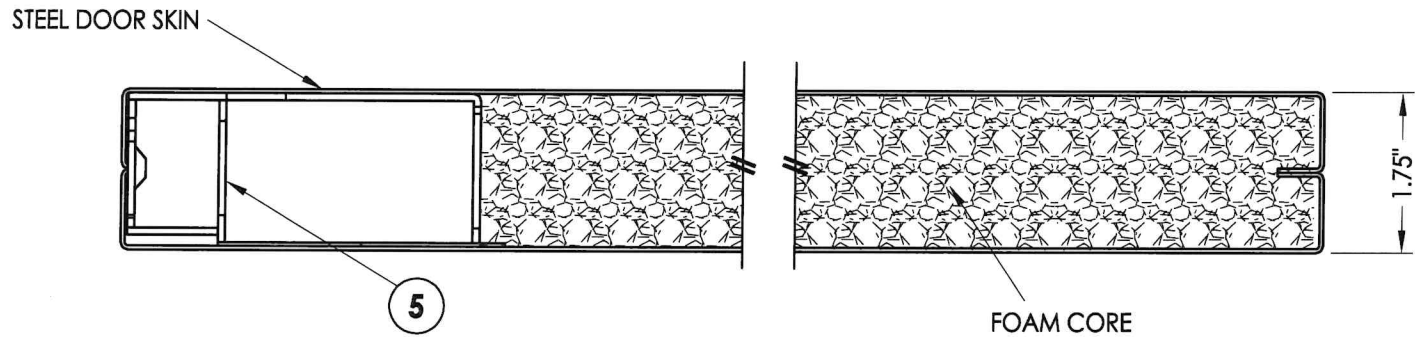
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| DATE: 5/12/11                               |  | SHEET 3 OF 6                                                                                                       |  |
| SCALE: N.T.S.                               |  | DRAWING NO.: FL-13922.6                                                                                            |  |
| DWG. BY: JK                                 |  | CHK. BY: LFS                                                                                                       |  |
| 8 7/02/26 UPDATE TO 9TH ED. (2026) FBC LFS  |  | PART OR ASSEMBLY: "T300 Series" DEADBOLT DETAILS                                                                   |  |
| 7 7/05/23 UPDATE TO 8TH ED. (2023) FBC LFS  |  | PRODUCT: CAL-ROYAL LOCK AND DEADBOLT                                                                               |  |
| 6 11/16/20 UPDATE TO 7TH ED. (2020) FBC LFS |  | Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409                                                            |  |
| NO. DATE                                    |  | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |
| BY                                          |  | © 2011 R.W. BUILDING CONSULTANTS INC.                                                                              |  |
| REVISIONS                                   |  |                                                                                                                    |  |

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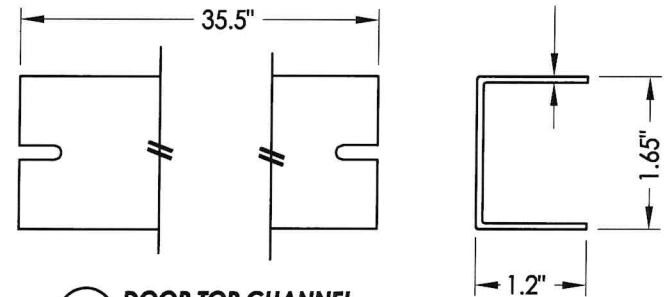


1 CAL-ROYAL DOOR PANEL  
7' Active Door Panel

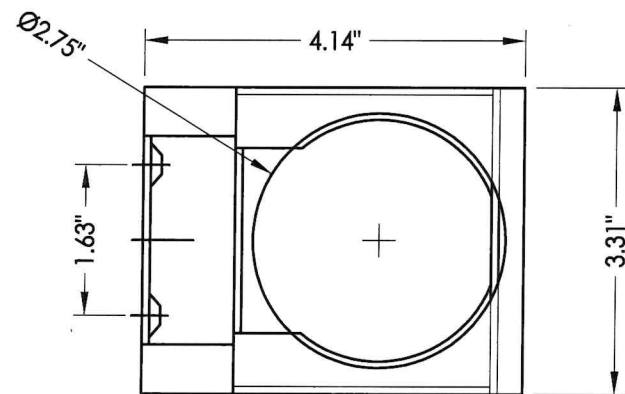
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.  
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)  
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



1/4 HORIZONTAL CROSS SECTION



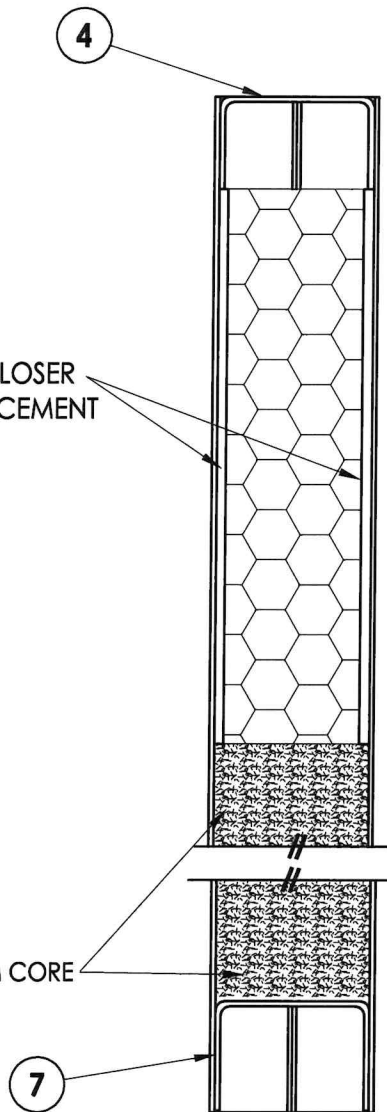
4 DOOR TOP CHANNEL



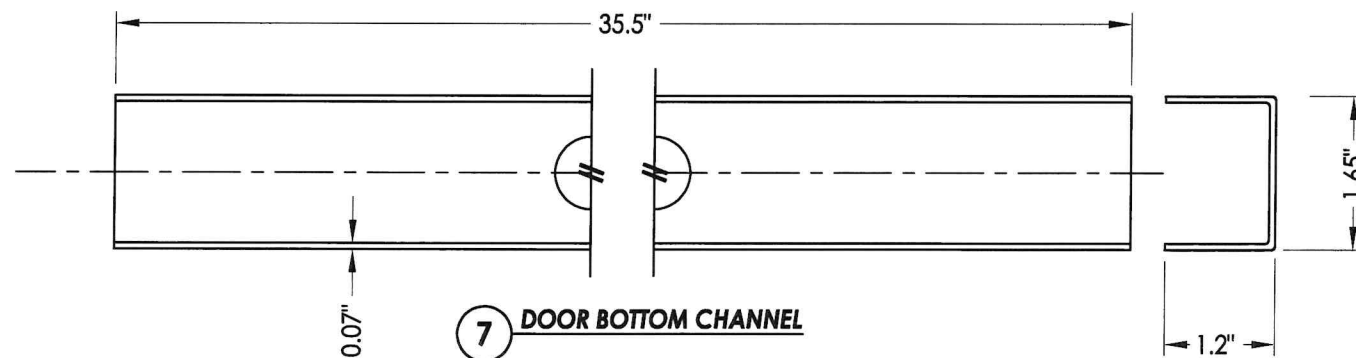
5 LOCK BOX REINFORCEMENT  
161 Lock prep only

DOOR CLOSER REINFORCEMENT

FOAM CORE



2/4 VERTICAL CROSS SECTION



7 DOOR BOTTOM CHANNEL

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  
LOCK AND DEADBOLT

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

| NO. | DATE     | REVISIONS                    |
|-----|----------|------------------------------|
| 8   | 7/02/26  | UPDATE TO 9TH ED. (2026) FBC |
| 7   | 7/05/23  | UPDATE TO 8TH ED. (2023) FBC |
| 6   | 11/16/20 | UPDATE TO 7TH ED. (2020) FBC |
| 5   |          |                              |
| 4   |          |                              |
| 3   |          |                              |
| 2   |          |                              |
| 1   |          |                              |

DATE: 5/12/11

SCALE: N.T.S.

DWG. BY: JK

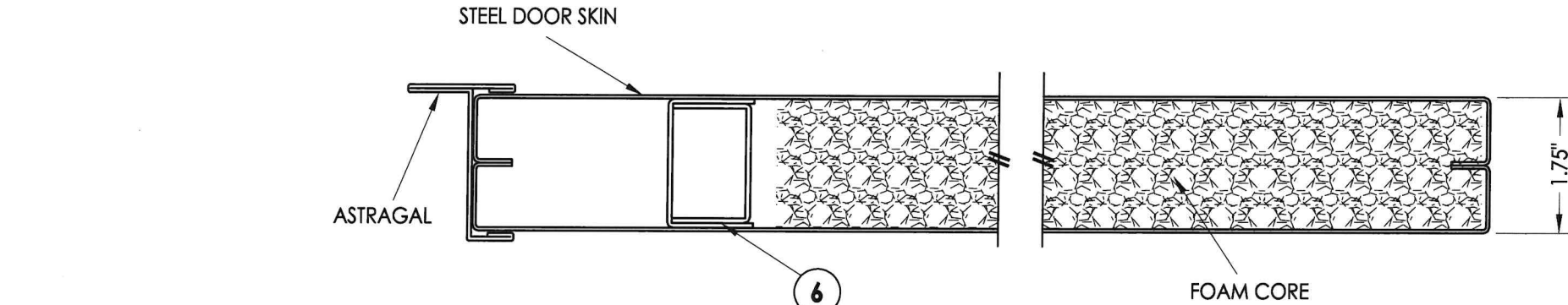
CHK. BY: LFS

DRAWING NO.:

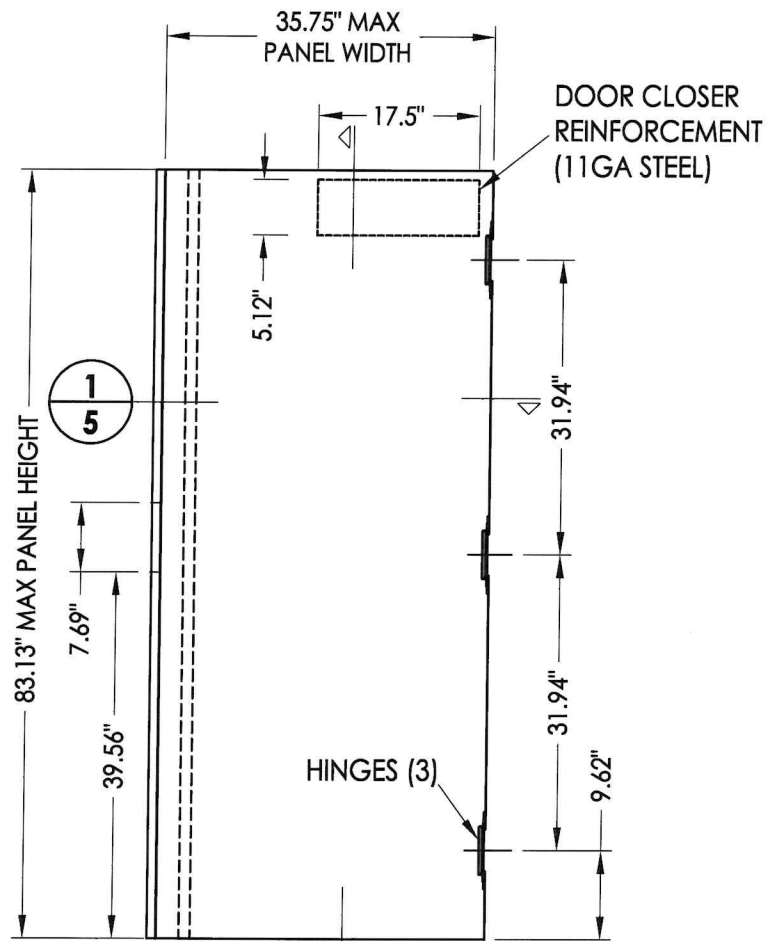
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SHEET 4 OF 6

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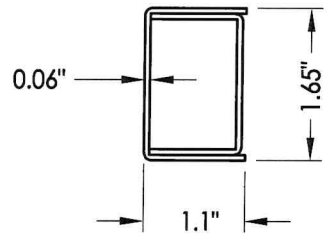
1/5 HORIZONTAL CROSS SECTION



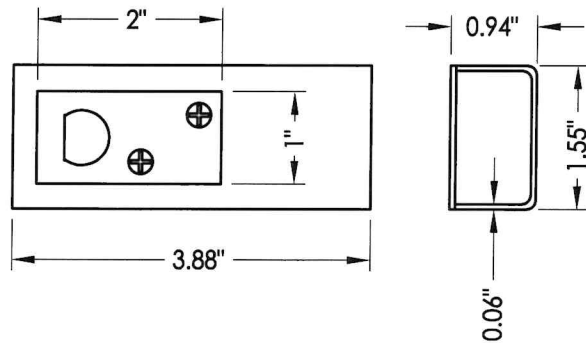
HINGES (3)

2/5

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



6 STILE REINFORCEMENT



8 DOOR BOTTOM REINFORCEMENT  
w/ Strike Plate

DOOR CLOSER REINFORCEMENT

FOAM CORE

4

7

8

2/5

2/5 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)

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  
LOCK AND DEADBOLT

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

| NO. | DATE     | REVISIONS                |     |     |     |
|-----|----------|--------------------------|-----|-----|-----|
|     |          | DATE                     | BY  | LFS | FBC |
| 8   | 7/02/26  | UPDATE TO 9TH ED. (2026) | FBC | LFS |     |
| 7   | 7/05/23  | UPDATE TO 8TH ED. (2023) | FBC | LFS |     |
| 6   | 11/16/20 | UPDATE TO 7TH ED. (2020) | FBC | LFS |     |

DATE: 5/12/11

SCALE: N.T.S.

DWG. BY: JK

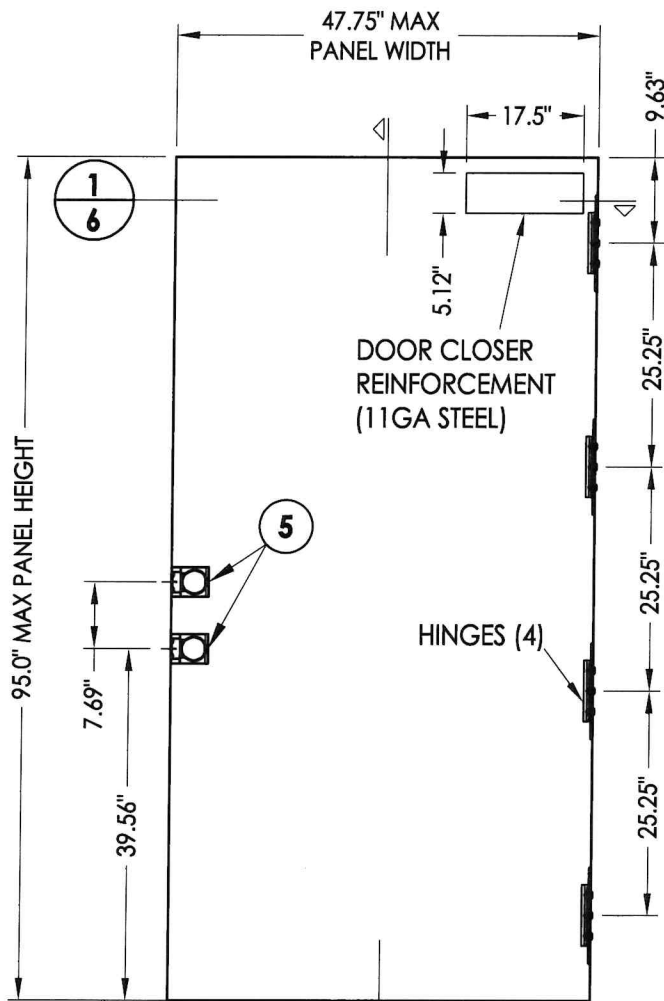
CHK. BY: LFS

DRAWING NO.:

FL-13922.6

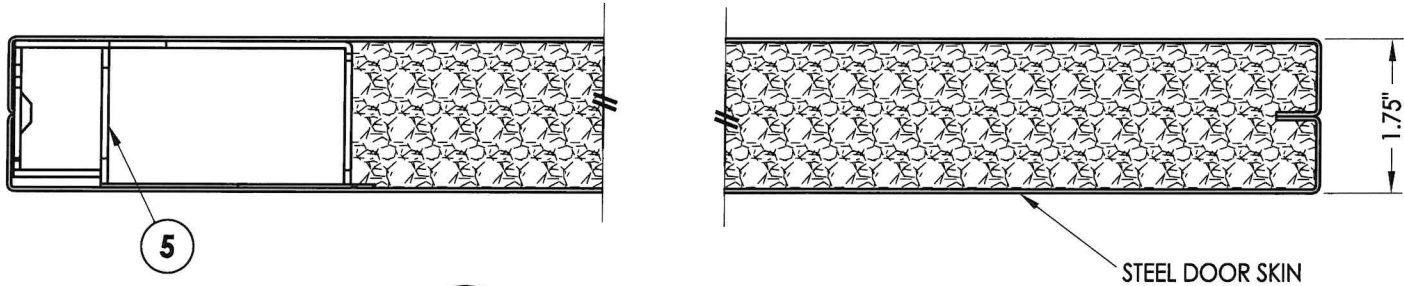
SHEET 5 OF 6

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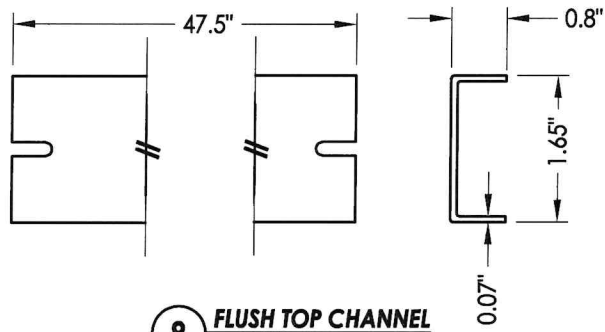


**3 CAL-ROYAL STEEL DOOR PANEL**  
8' Active Door Panel

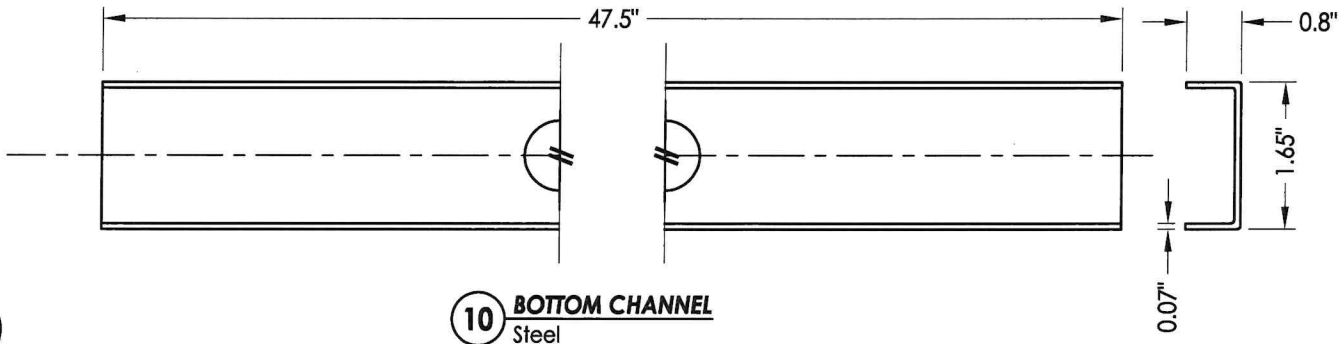
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.  
STEEL GRADE: ASTM A1008 GALV. STEEL (F<sub>y</sub> = 33,000 PSI MIN.)  
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



**1 HORIZONTAL CROSS SECTION**  
6

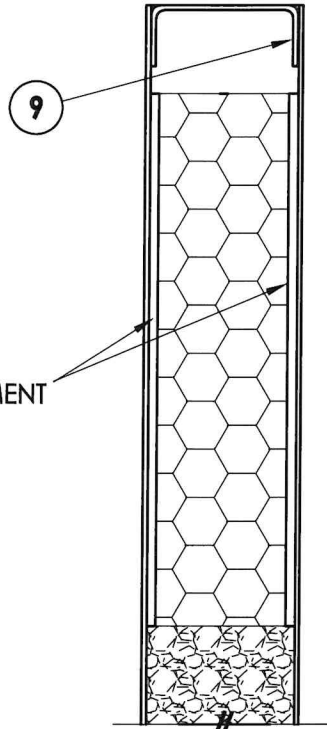


**9 FLUSH TOP CHANNEL**  
Steel

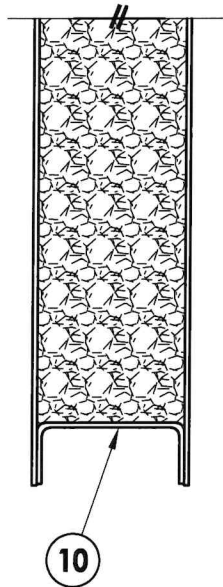


**10 BOTTOM CHANNEL**  
Steel

DOOR CLOSER REINFORCEMENT



**1 VERTICAL CROSS SECTION**  
6



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

**RW** BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197  
FBPE Registry No. 9813

| PRODUCT:          |          | CAL-ROYAL                |      |
|-------------------|----------|--------------------------|------|
|                   |          | LOCK AND DEADBOLT        |      |
| PART OR ASSEMBLY: |          | DOOR PANEL DETAILS       |      |
|                   |          | (8' active panel)        |      |
|                   |          | REVISIONS                |      |
|                   |          | NO.                      | DATE |
| 8                 | 7/02/26  | UPDATE TO 9TH ED. (2026) | FBC  |
| 7                 | 7/05/23  | UPDATE TO 8TH ED. (2023) | FBC  |
| 6                 | 11/16/20 | UPDATE TO 7TH ED. (2020) | FBC  |
|                   |          | BY                       |      |
| DATE:             |          | 5/12/11                  |      |
| SCALE:            |          | N.T.S.                   |      |
| DWG. BY:          |          | JK                       |      |
| CHK. BY:          |          | LFS                      |      |
| DRAWING NO.:      |          | FL-13922.6               |      |
| SHEET             |          | 6                        | OF 6 |