



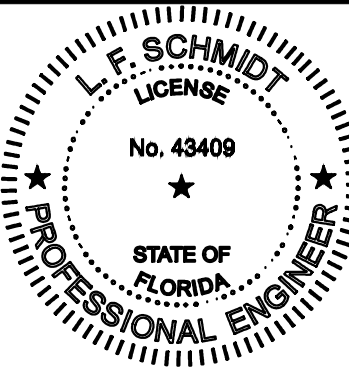
**CLINE ALUMINUM DOORS, INC.**  
112 32nd AVENUE WEST, BRADENTON, FL 34205-8096  
Telephone (800) 648-6736

**SERIES 100BE  
ALUMINUM DOOR**  
**OUTSWING  
"IMPACT"**

GENERAL NOTES

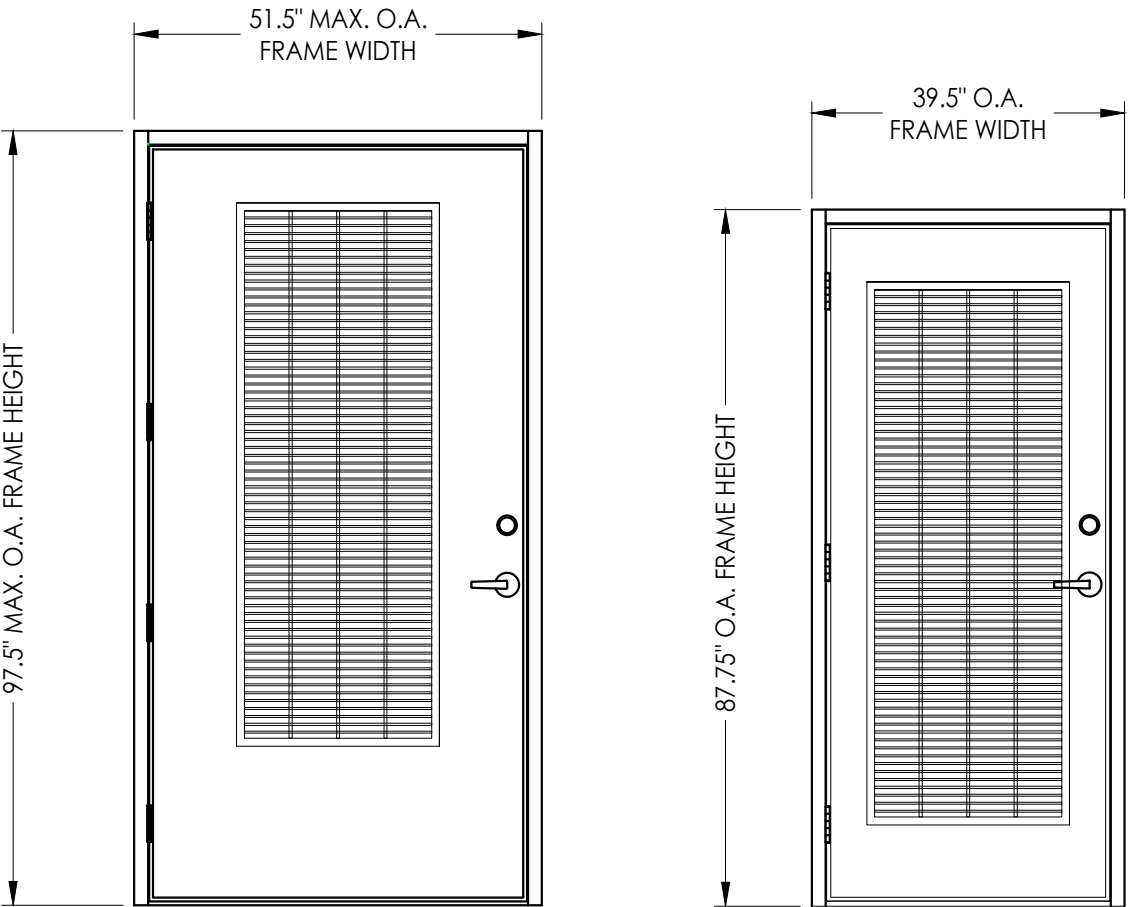
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas 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 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
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 elevations, design pressures & general notes |
| 2                 | Door panel details and glazing detail                |
| 3                 | Horizontal cross sections                            |
| 4                 | Vertical cross sections                              |
| 5                 | Buck and frame anchoring (Nominal 4' X 8')           |
| 6                 | Buck and frame anchoring (Nominal 3' X 7')           |
| 7                 | 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



VENTED DOOR PANEL

| LOCK HARDWARE                          | MAX.<br>FRAME<br>DIMENSION | MAX. VENT<br>OPENING<br>DIMENSION | DESIGN PRESSURE (PSF) |          |
|----------------------------------------|----------------------------|-----------------------------------|-----------------------|----------|
|                                        |                            |                                   | POSITIVE              | NEGATIVE |
| LATCH & DEADBOLT<br>or<br>MORTISE LOCK | 51.5" x 97.5"              | 23.75" X 66.75"                   | +50.0                 | -50.0    |
|                                        | 39.5" x 87.75"             | 23.75" X 66.75"                   | +60.0                 | -60.0    |

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

CLINE DOORS

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

37/23/25 ADD MORTISE LOCK

27/05/23 UPDATE TO 8TH ED. (2023) FBC

18/11/20 UPDATE TO 7th ED. (2020) FBC

NO. DATE

REVISIONS

DATE: 09/23/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:  
FL-6336.9

SHEET 1 OF 7

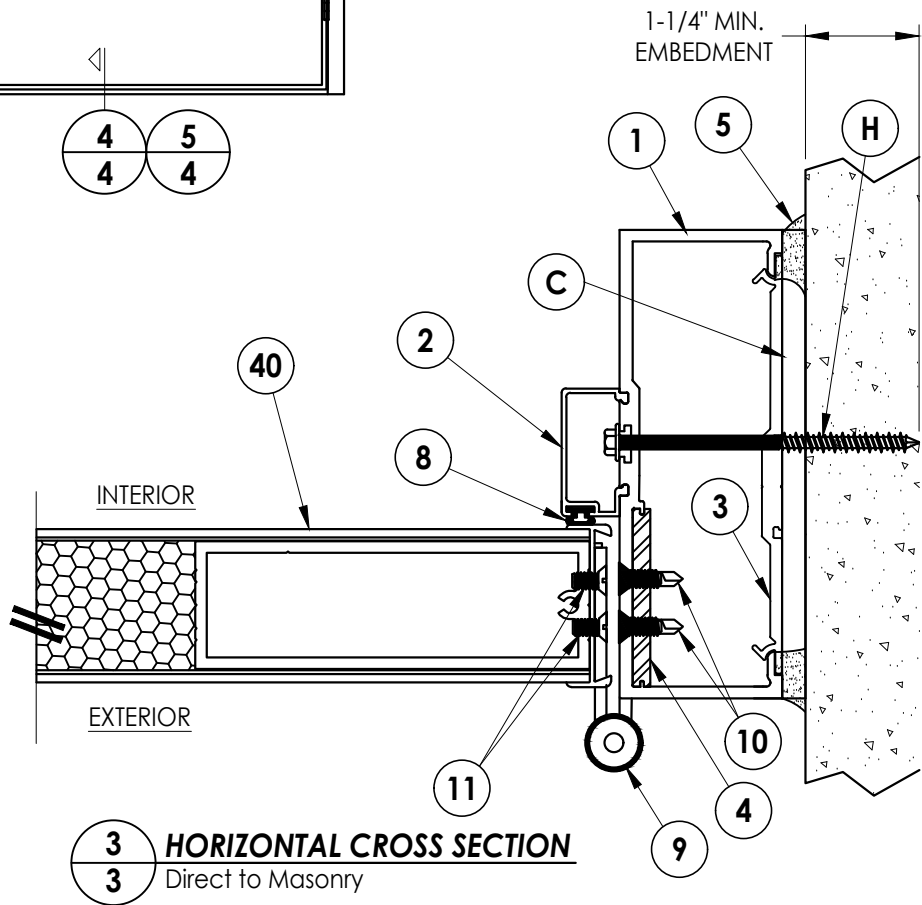
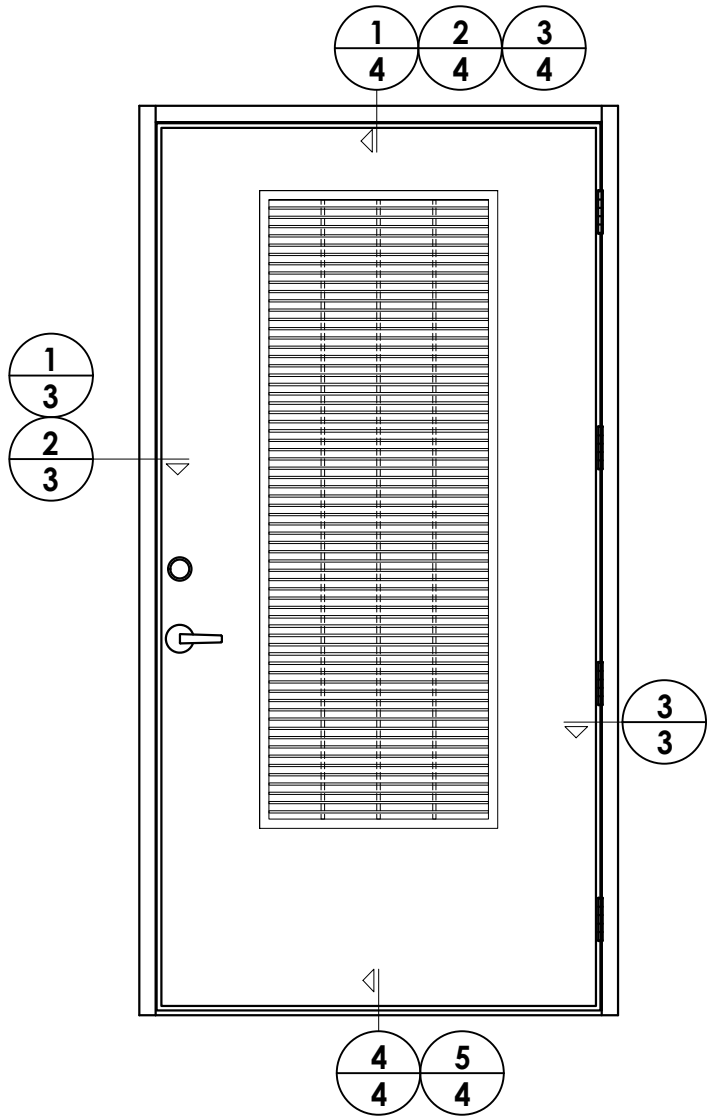
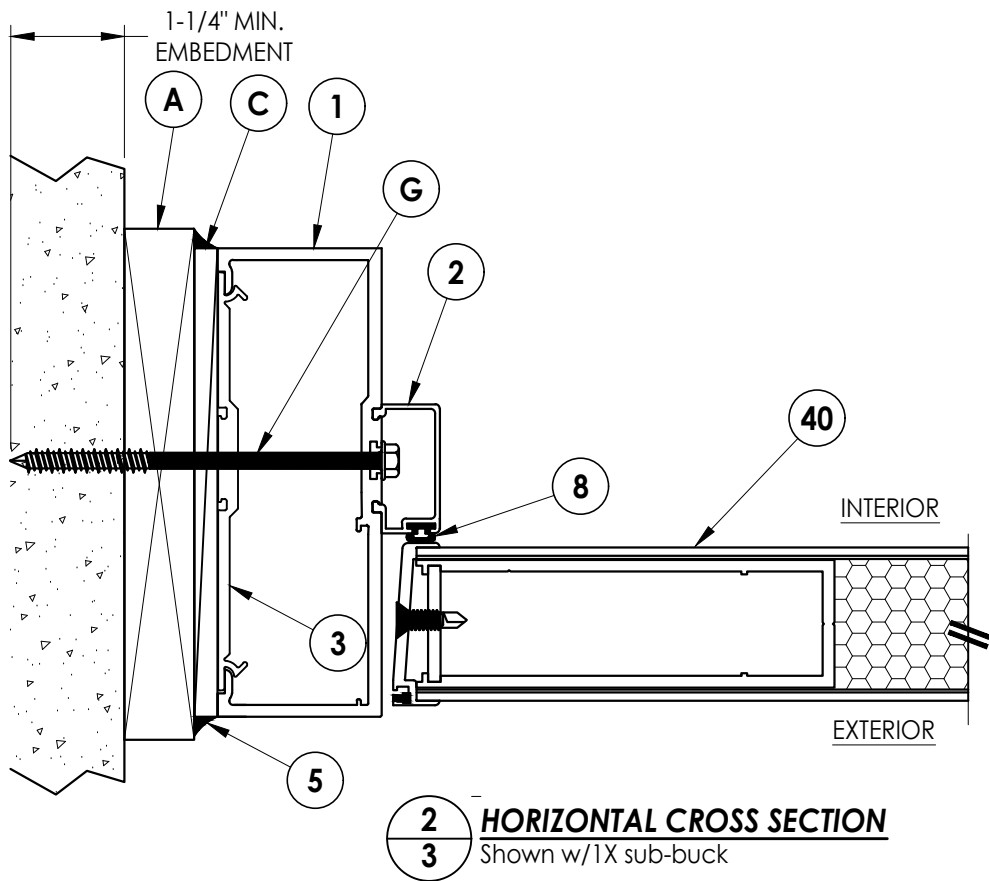
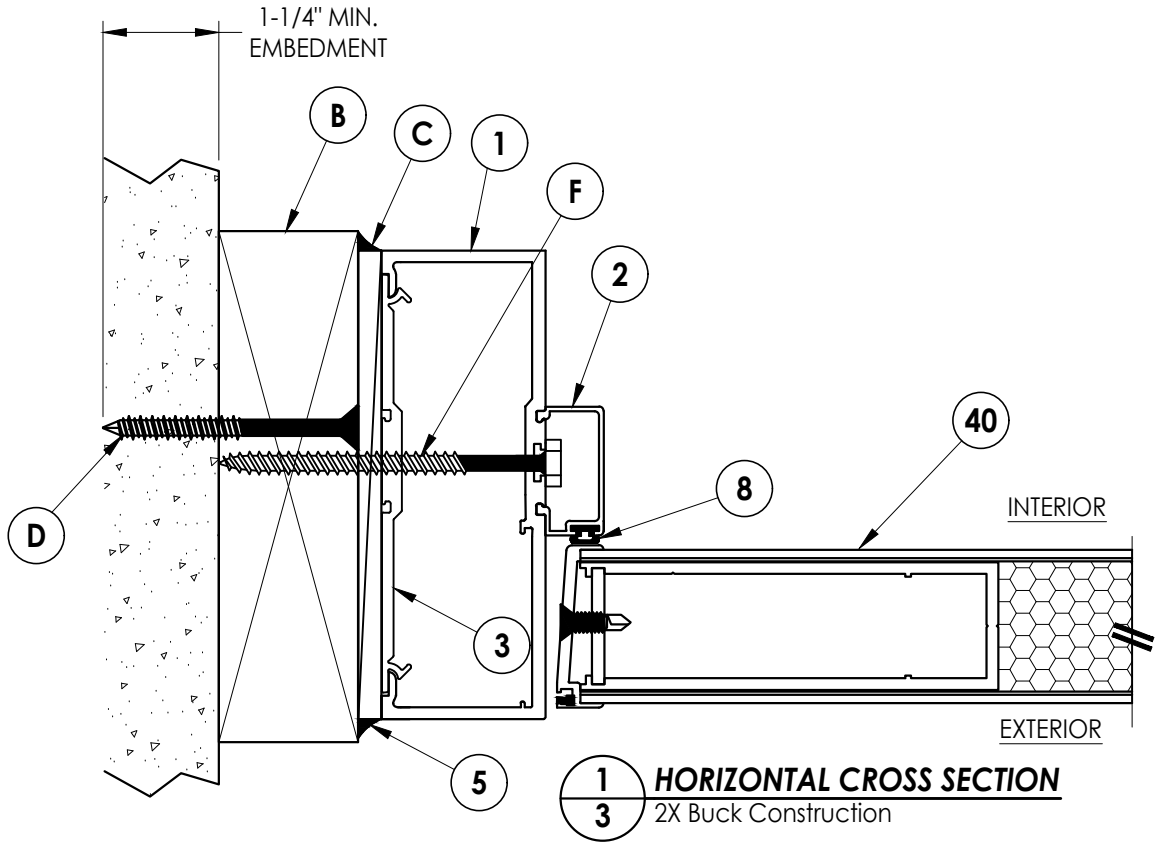
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RW

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

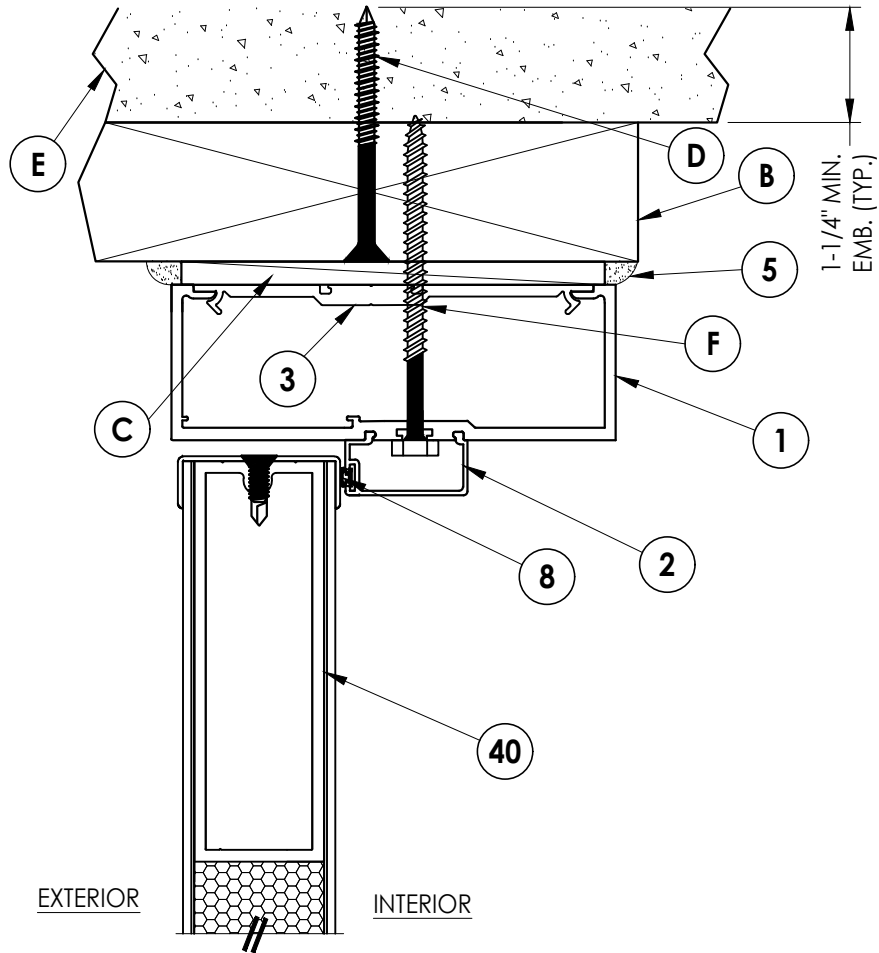


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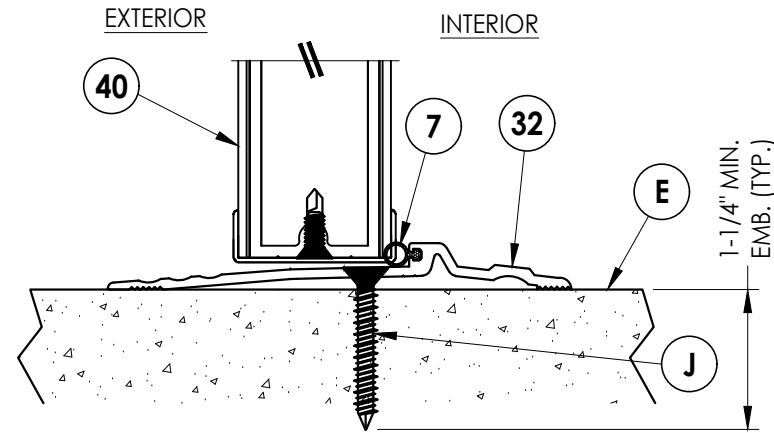


|                           |         |                           |                |                                                               |     |                                                                                                                    |  |
|---------------------------|---------|---------------------------|----------------|---------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------|--|
| PRODUCT:                  |         | CLINE DOORS               |                | Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |     | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |
| PART OR ASSEMBLY:         |         | HORIZONTAL CROSS SECTIONS |                | <div>RW</div>                                                 |     |                                                                                                                    |  |
|                           |         |                           |                |                                                               |     |                                                                                                                    |  |
|                           |         |                           |                |                                                               |     |                                                                                                                    |  |
|                           |         |                           |                |                                                               |     |                                                                                                                    |  |
|                           |         |                           |                |                                                               |     |                                                                                                                    |  |
| 3                         | 7/23/25 | ADD                       | MORTISE LOCK   | LFS                                                           |     |                                                                                                                    |  |
| 2                         | 7/05/23 | UPDATE TO                 | 8TH ED. (2023) | FBC                                                           | LFS |                                                                                                                    |  |
| 1                         | 8/11/20 | UPDATE TO                 | 7th ED. (2020) | FBC                                                           | DAC |                                                                                                                    |  |
| NO.                       | DATE    |                           |                |                                                               | BY  |                                                                                                                    |  |
|                           |         |                           |                |                                                               |     | REVISIONS                                                                                                          |  |
| DATE: 09/23/17            |         |                           |                |                                                               |     |                                                                                                                    |  |
| SCALE: N.T.S.             |         |                           |                |                                                               |     |                                                                                                                    |  |
| DWG. BY: JK               |         |                           |                |                                                               |     |                                                                                                                    |  |
| CHK. BY: LFS              |         |                           |                |                                                               |     |                                                                                                                    |  |
| DRAWING NO.:<br>FL-6336.9 |         |                           |                |                                                               |     |                                                                                                                    |  |
| SHEET 3 OF 7              |         |                           |                |                                                               |     |                                                                                                                    |  |

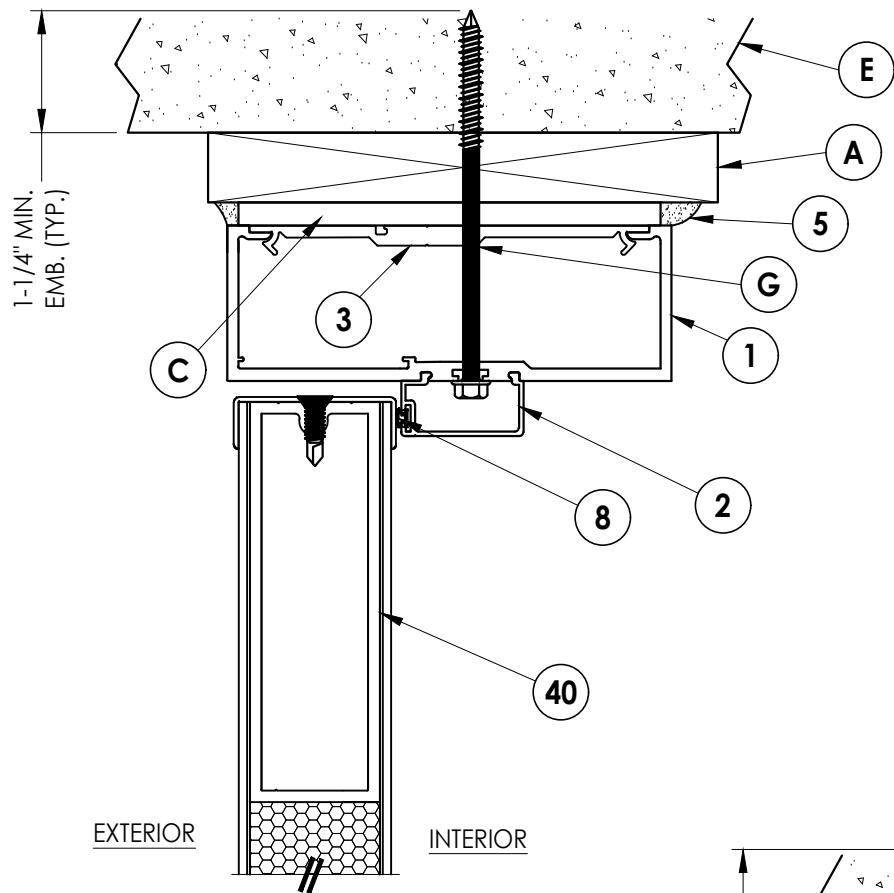
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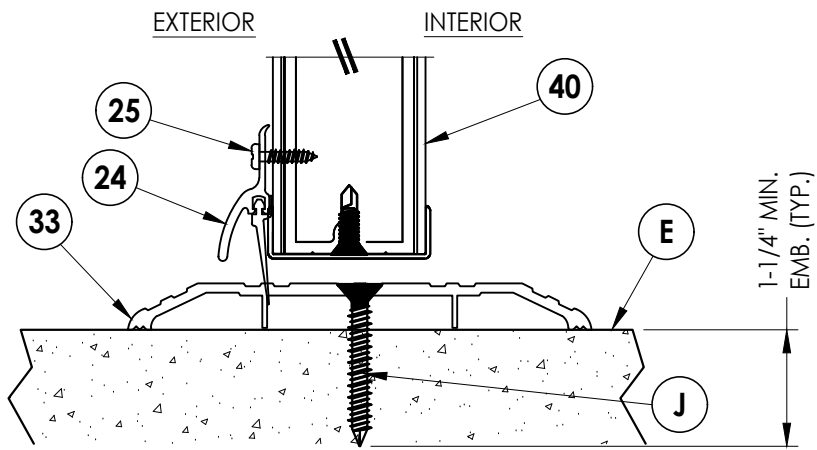
**1**  
**4** **VERTICAL CROSS SECTION**  
2X Buck Construction



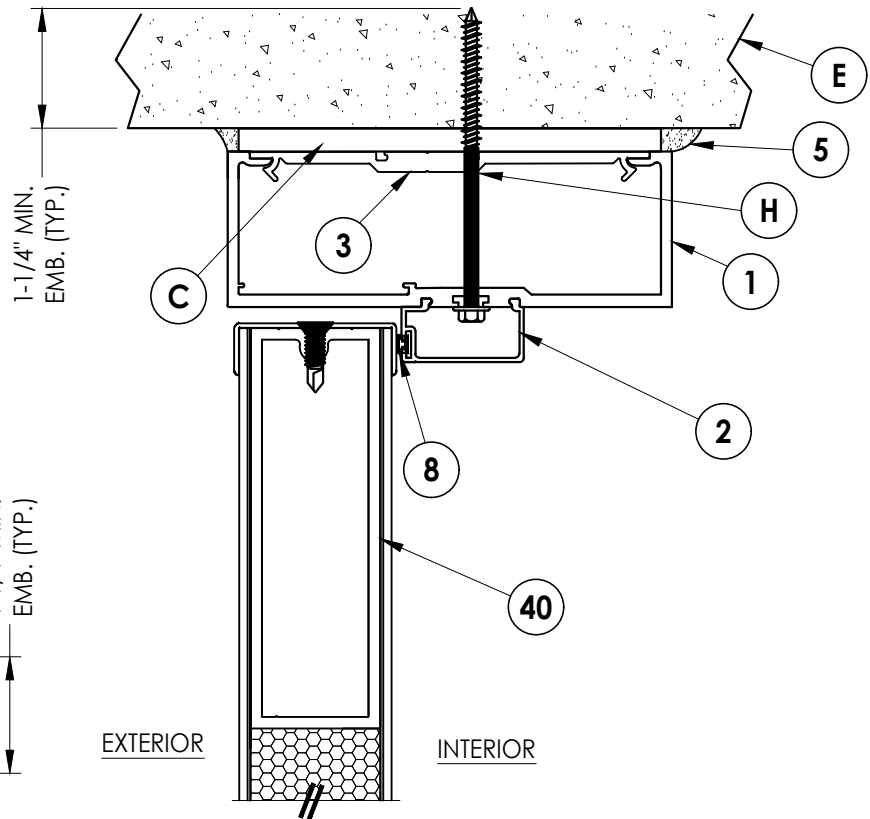
**4**  
**4** **VERTICAL CROSS SECTION**



**2**  
**4** **VERTICAL CROSS SECTION**  
Shown w/1X sub-buck



**5**  
**4** **VERTICAL CROSS SECTION**



**3**  
**4** **VERTICAL CROSS SECTION**  
Direct to Masonry

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: CLINE DOORS

PART OR ASSEMBLY:  
VERTICAL CROSS SECTIONS

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 3   | 7/23/25 | ADD MORTISE LOCK             |
| 2   | 7/05/23 | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 8/11/20 | UPDATE TO 7th ED. (2020) FBC |

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DWG. BY: JK

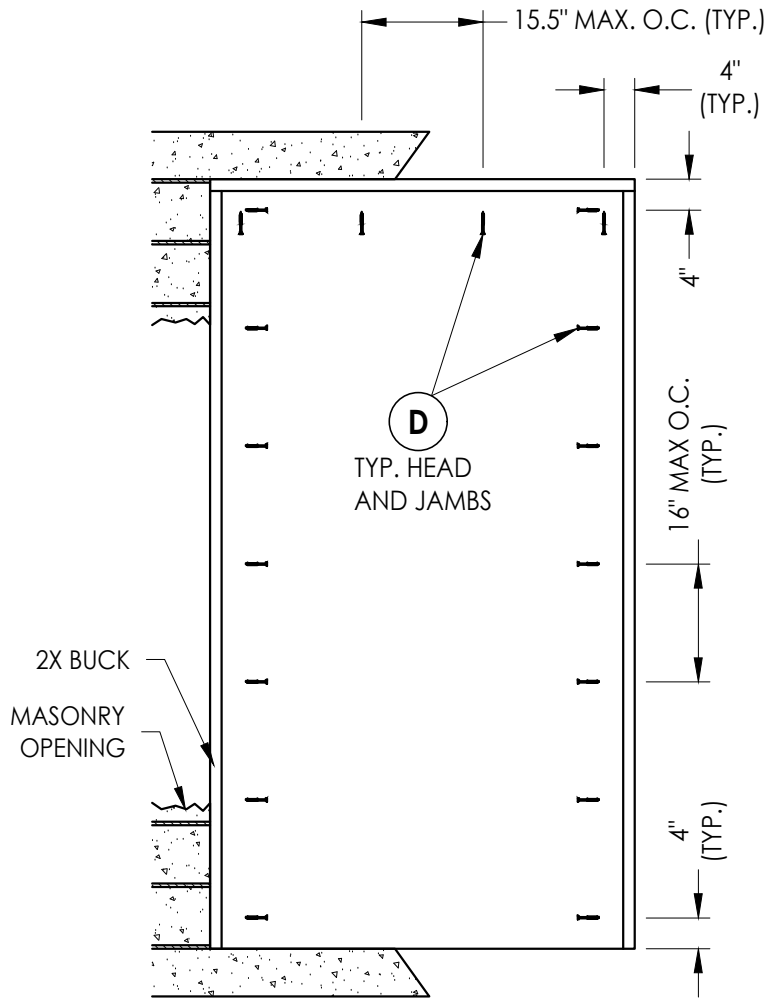
CHK. BY: LFS

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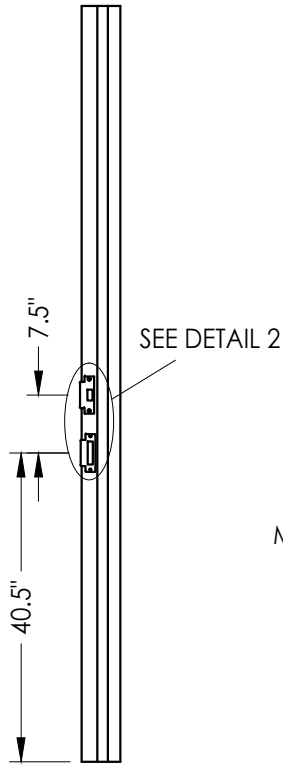
FL-6336.9

SHEET 4 OF 7

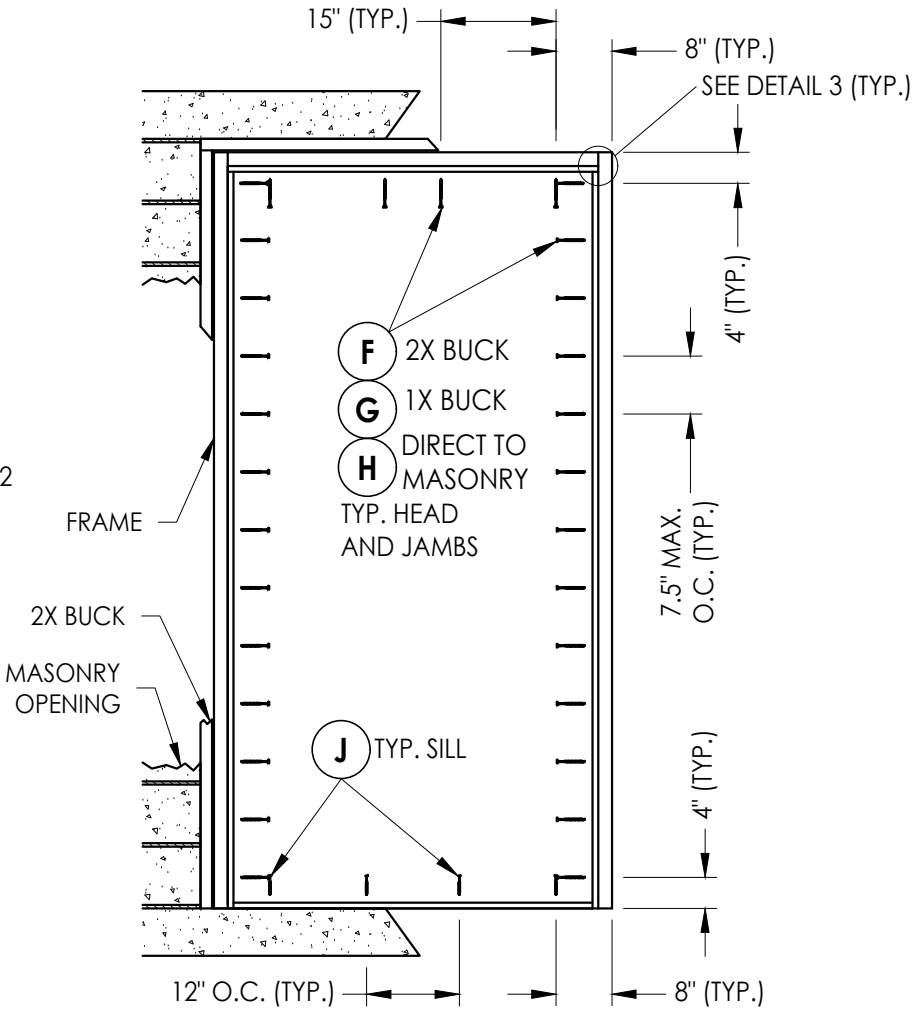
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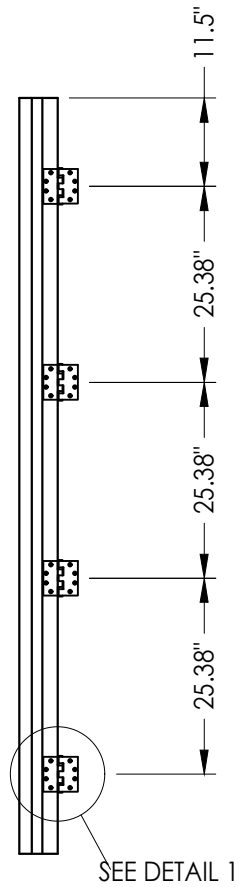
BUCK ANCHORING



STRIKE JAMB



FRAME ANCHORING



HINGE JAMB

MAX. FRAME DIMENSION 51.5" X 97.5"

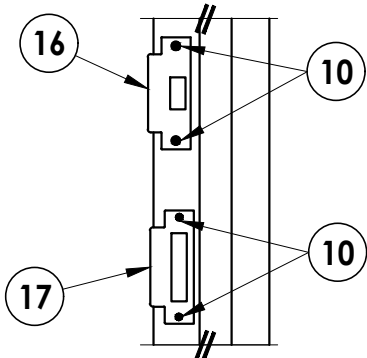
CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

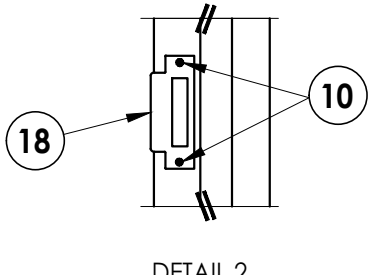
| ANCHOR TYPE         | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|---------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW BUILDEX TAPCON® | 1/4"        | 1-1/4"         | 2"                             | 4"                                |
| DeWALT ULTRACON®    | 1/4"        | 1-1/4"         | 1"                             | 4"                                |

WOOD SCREW INSTALLATION NOTES:

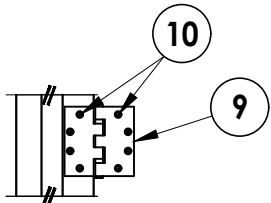
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



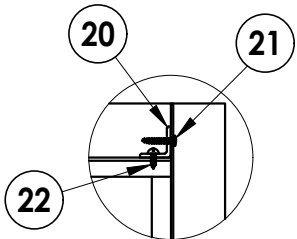
DETAIL 2  
LOCK & DEADBOLT



DETAIL 2  
MORTISE LOCK



DETAIL 1



DETAIL 3

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: CLINE DOORS

PART OR ASSEMBLY:  
BUCK AND FRAME ANCHORING  
(Nominal 4'0" X 8'0")

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 3   | 7/23/25 | ADD MORTISE LOCK             |
| 2   | 7/05/23 | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 8/11/20 | UPDATE TO 7th ED. (2020) FBC |

DATE: 09/23/17

SCALE: N.T.S.

DWG. BY: JK

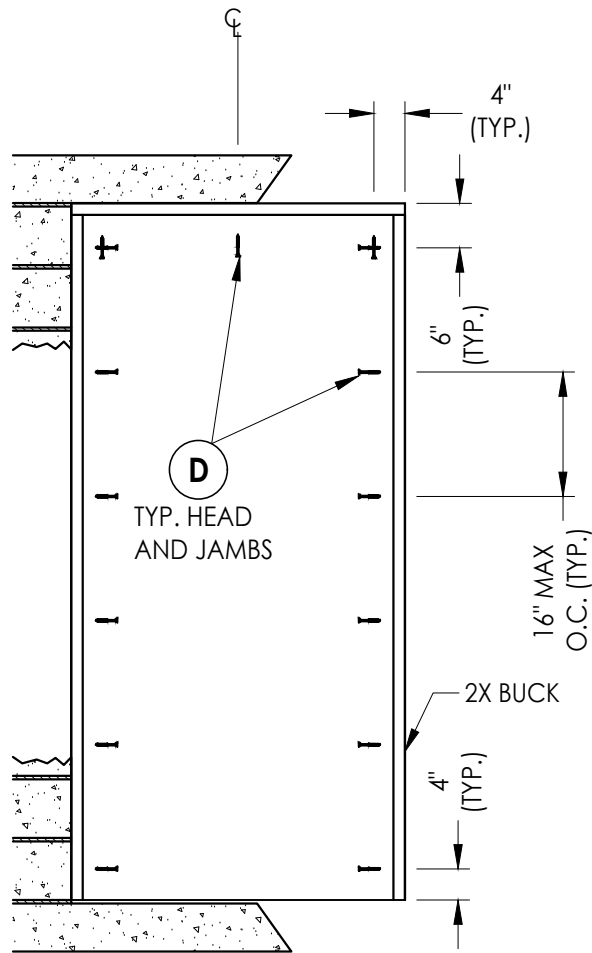
CHK. BY: LFS

DRAWING NO.:

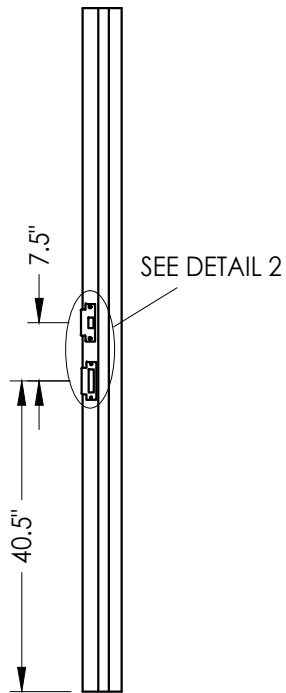
FL-6336.9

SHEET 5 OF 7

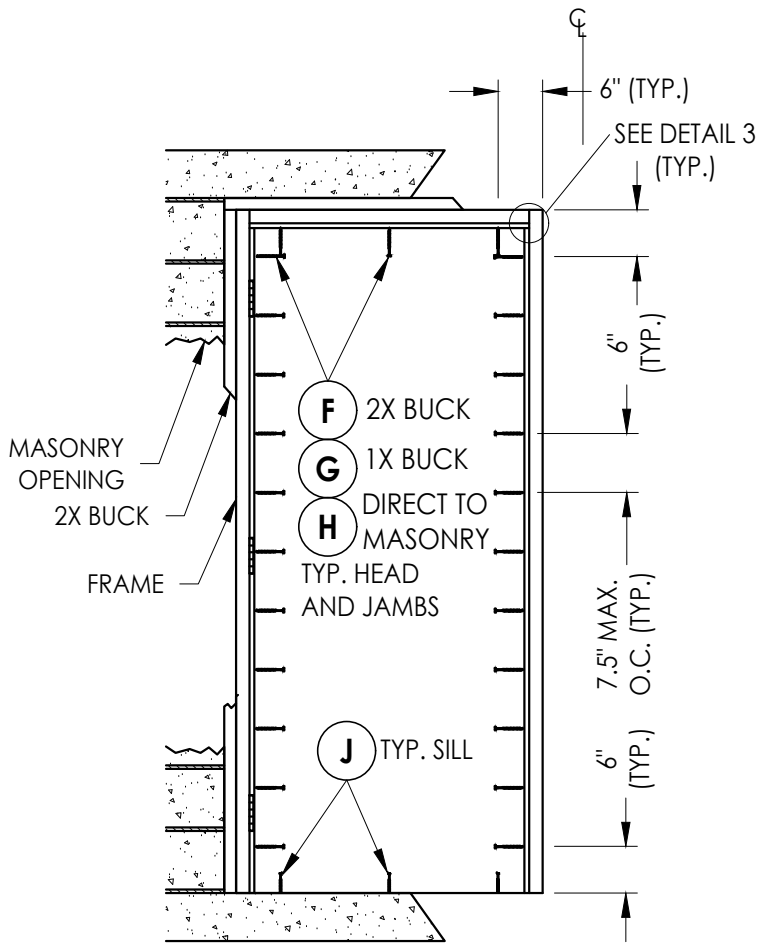
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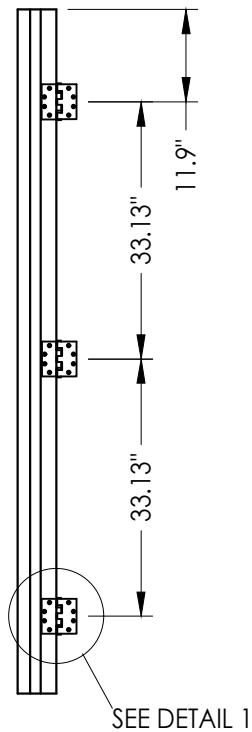
BUCK ANCHORING



STRIKE JAMB



FRAME ANCHORING



HINGE JAMB

MAX. FRAME DIMENSION 39.5" X 87.75"

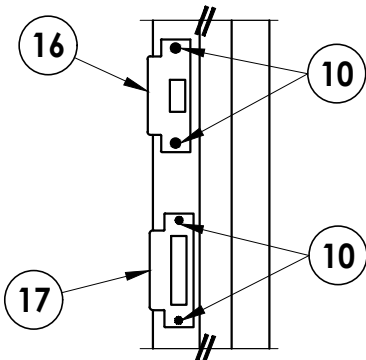
CONCRETE ANCHOR NOTES:

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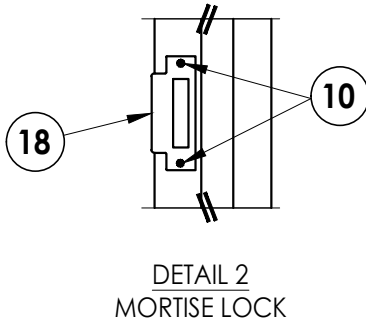
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WOOD SCREW INSTALLATION NOTES:

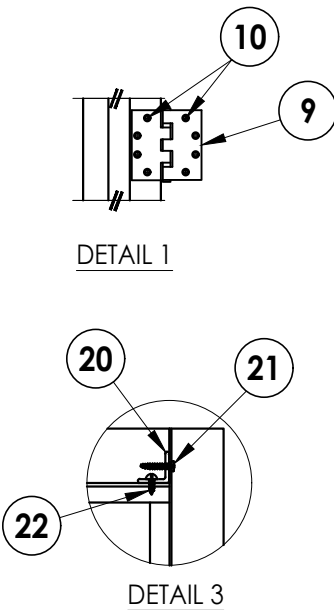
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



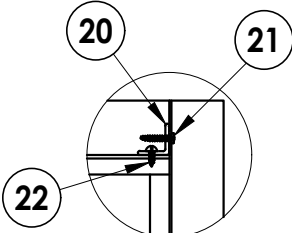
DETAIL 2  
LOCK & DEADBOLT



DETAIL 2  
MORTISE LOCK



DETAIL 1



DETAIL 3

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: CLINE DOORS

PART OR ASSEMBLY:  
BUCK AND FRAME ANCHORING  
(Nominal 3'0" X 7'0")

| NO. | DATE    | BY  | REVISIONS                    |
|-----|---------|-----|------------------------------|
| 3   | 7/23/25 | LFS | ADD MORTISE LOCK             |
| 2   | 7/05/23 | LFS | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 8/11/20 | DAC | UPDATE TO 7th ED. (2020) FBC |

DATE: 09/23/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

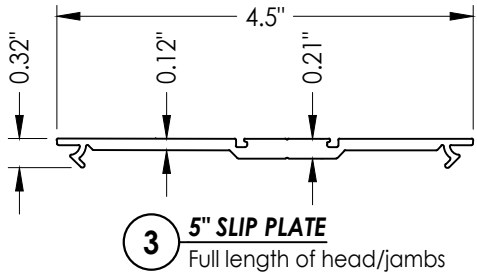
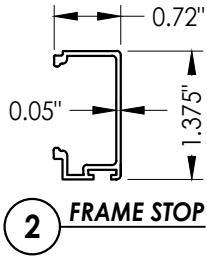
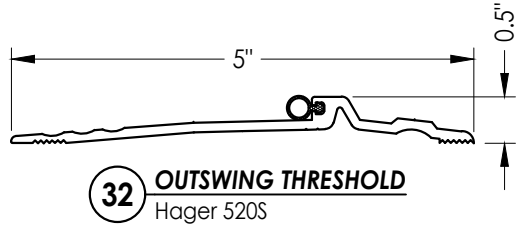
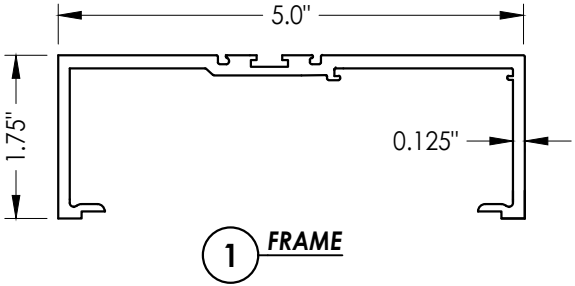
DRAWING NO.:

FL-6336.9

SHEET 6 OF 7

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| BILL OF MATERIALS |                                                                                                |              |
|-------------------|------------------------------------------------------------------------------------------------|--------------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL     |
| A                 | 1X BUCK SG >= 0.55                                                                             | WOOD         |
| B                 | 2X BUCK SG >= 0.55                                                                             | WOOD         |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -            |
| D                 | 1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW                                                     | STEEL        |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE     |
| F                 | 1/4" X 3-1/2" HEX LAG SCREW (1-1/2" MIN. EMBEDMENT)                                            | STEEL        |
| G                 | 1/4" X 4" HH DeWALT OR ITW CONCRETE SCREW                                                      | STEEL        |
| H                 | 1/4" x 3-1/4" HH DeWALT OR ITW CONCRETE SCREW                                                  | STEEL        |
| J                 | 1/4" x 1-3/4" HH DeWALT OR ITW CONCRETE SCREW                                                  | STEEL        |
| 1                 | FRAME                                                                                          | ALUM 6063 T5 |
| 2                 | FRAME STOP                                                                                     | ALUM 6063 T5 |
| 3                 | 5" SLIP PLATE                                                                                  | ALUM 6063 T5 |
| 5                 | SILICONE SEALANT                                                                               | SILICONE     |
| 7                 | WEATHERSTRIP                                                                                   | PVC          |
| 8                 | WOOL PILE WEATHERSTRIP                                                                         | -            |
| 9                 | 4-1/2" X 4-1/2" HINGE                                                                          | STEEL        |
| 10                | #12 X 11/16" PPH SELF-DRILLING SMS                                                             | STEEL        |
| 11                | #8-20 X 3/4"PFH SELF-TAPPING SMS                                                               | STEEL        |
| 16                | ANSI DEADBOLT STRIKE PLATE                                                                     | STEEL        |
| 17                | ANSI LATCH STRIKE PLATE                                                                        | STEEL        |
| 18                | MORTISE LOCK STRIKE PLATE                                                                      | STEEL        |
| 20                | CORNER REINFORCEMENT                                                                           | STEEL        |
| 21                | #10 X 1" PPH SMS                                                                               | STEEL        |
| 22                | #10 X 1/2" PPH SMS                                                                             | STEEL        |
| 24                | DOOR SWEEP (PEMKO 345AV)                                                                       | -            |
| 25                | #6 X 5/8" PPH SMS                                                                              | STEEL        |
| 32                | OUTSWING THRESHOLD                                                                             | ALUM         |
| 33                | ADA THRESHOLD (PEMKO 171A)                                                                     | ALUM         |
| 40                | DOOR PANEL (SEE DOOR PANEL DETAILS)                                                            | -            |



|                                                               |  |                                                        |     |                                                                                                                    |  |  |  |
|---------------------------------------------------------------|--|--------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------|--|--|--|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |  |                                                        |     | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |  |  |
| PRODUCT:<br>CLINE DOORS                                       |  | PART OR ASSEMBLY:<br>BILL OF MATERIALS<br>& COMPONENTS |     |                                                                                                                    |  |  |  |
|                                                               |  |                                                        | LFS |                                                                                                                    |  |  |  |
|                                                               |  | 3 7/23/25 ADD MORTISE LOCK                             | LFS |                                                                                                                    |  |  |  |
|                                                               |  | 2 7/05/23 UPDATE TO 8TH ED. (2023) FBC                 | LFS |                                                                                                                    |  |  |  |
|                                                               |  | 1 8/11/20 UPDATE TO 7th ED. (2020) FBC                 | DAC |                                                                                                                    |  |  |  |
|                                                               |  | NO. DATE                                               | BY  | REVISIONS                                                                                                          |  |  |  |
| DATE: 09/23/17                                                |  |                                                        |     |                                                                                                                    |  |  |  |
| SCALE: N.T.S.                                                 |  |                                                        |     |                                                                                                                    |  |  |  |
| DWG. BY: JK                                                   |  |                                                        |     |                                                                                                                    |  |  |  |
| CHK. BY: LFS                                                  |  |                                                        |     |                                                                                                                    |  |  |  |
| DRAWING NO.: FL-6336.9                                        |  |                                                        |     |                                                                                                                    |  |  |  |
| SHEET 7 OF 7                                                  |  |                                                        |     |                                                                                                                    |  |  |  |