



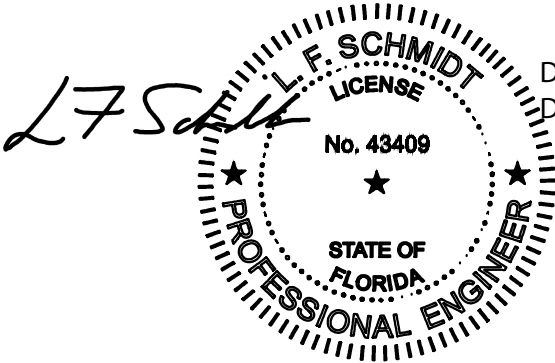
**STEVES AND SONS**  
203 Humble Ave.  
San Antonio, TX 78225

**OPAQUE STEEL DOOR w/ SIDELITES**  
**INSWING / OUTSWING**  
**"NON-IMPACT"**

GENERAL NOTES

- 1. This product anchoring drawing has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) 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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
- 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.

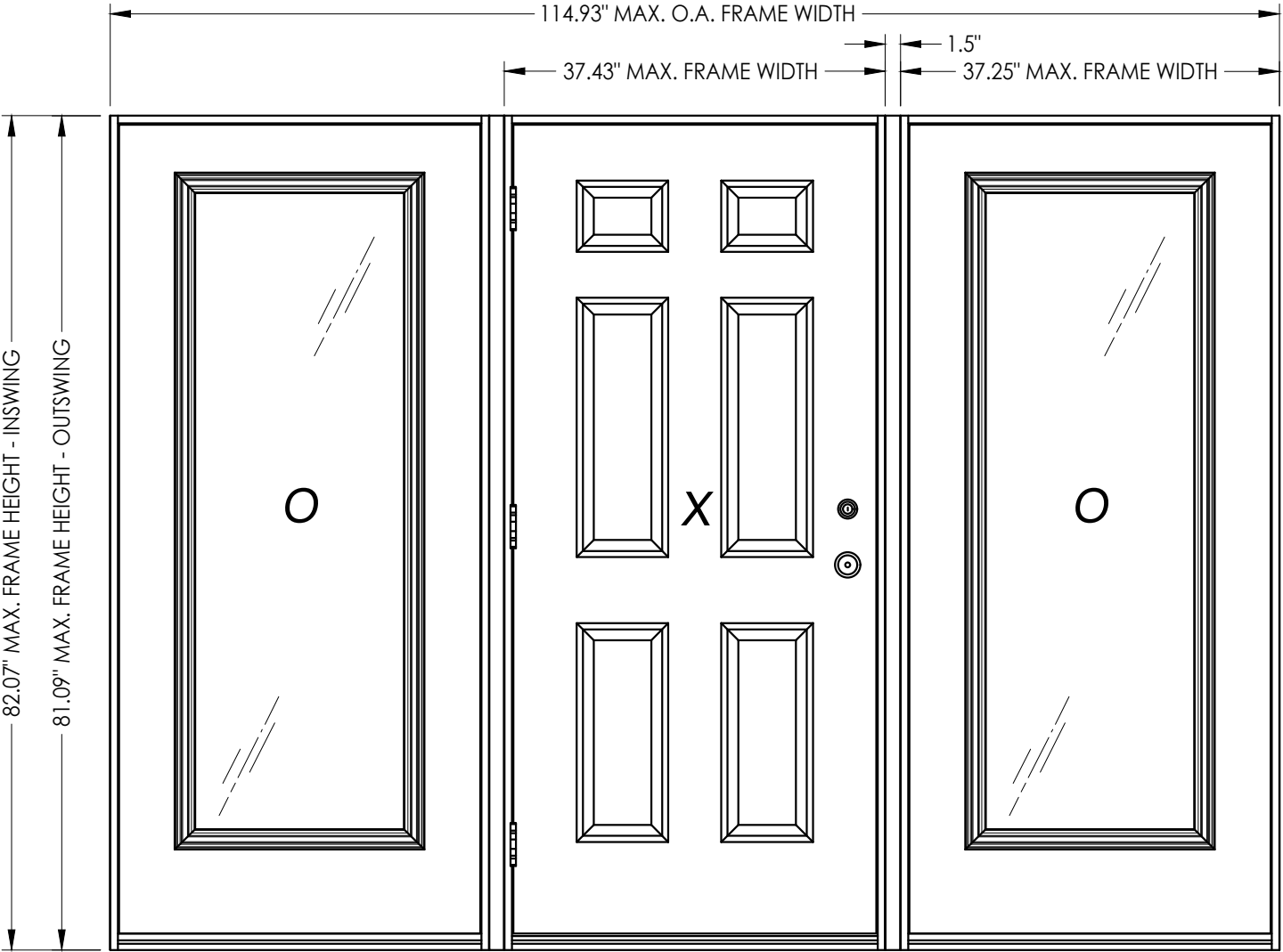
| TABLE OF CONTENTS |                                                         |
|-------------------|---------------------------------------------------------|
| SHEET #           | DESCRIPTION                                             |
| 1                 | Typical elevations, design pressures & general notes    |
| 2                 | Door panel construction details                         |
| 3                 | Sidelite panel construction details & glazing detail    |
| 4                 | Horizontal cross sections                               |
| 5                 | Vertical cross sections                                 |
| 6                 | Vertical cross sections                                 |
| 7                 | Buck and frame anchoring - 2X buck masonry construction |
| 8                 | Frame anchoring - 1X buck masonry construction          |
| 9                 | Bill of materials & components                          |



Digitally signed by Lyndon F Schmidt  
Date: 2023.08.07 08:58:30 -04'00'

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



| SWING    | MAX. FRAME DIMENSION | GLASS TYPE | DESIGN PRESSURE (PSF) |          |
|----------|----------------------|------------|-----------------------|----------|
|          |                      |            | POSITIVE              | NEGATIVE |
| INSWING  | 114.93" x 82.07"     | G1         | +47.0                 | -47.0    |
| OUTSWING | 114.93" x 81.09"     |            | +47.0                 | -47.0    |

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

STEVES AND SONS

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17903.5

SHEET 1 OF 9

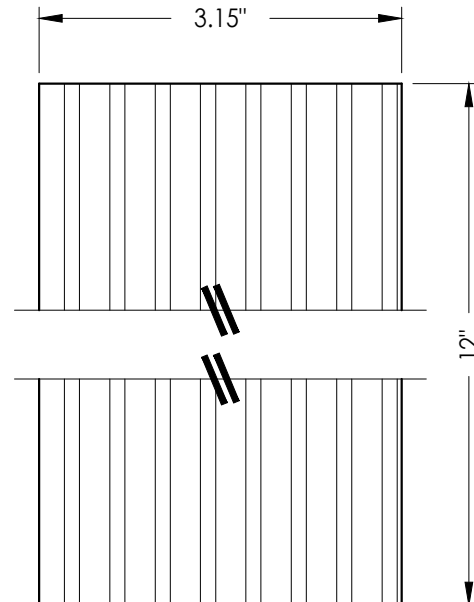
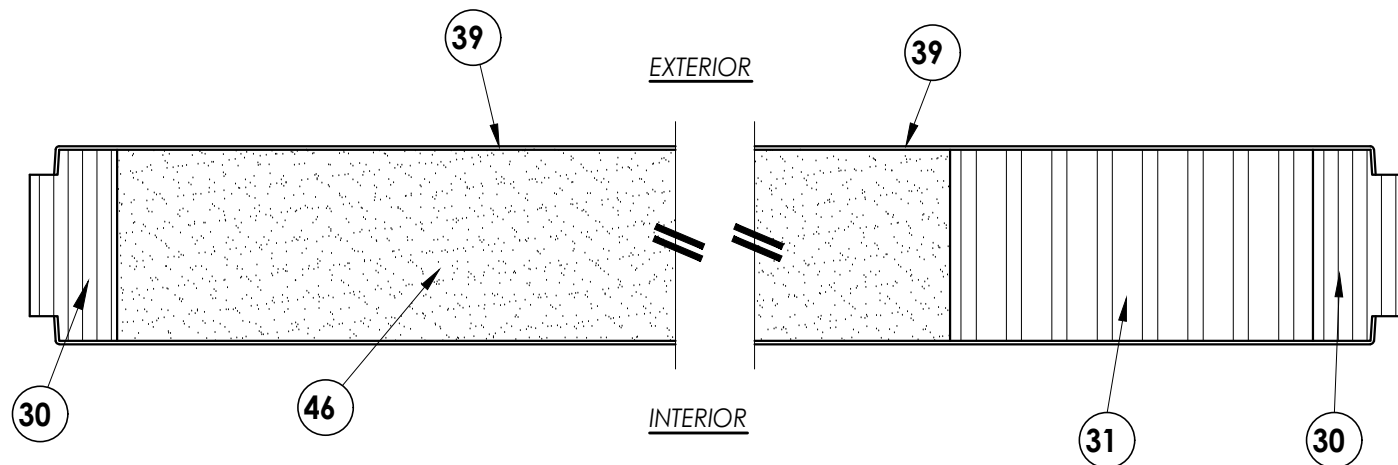
Building Consultants, Inc.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

Part or Assembly:  
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

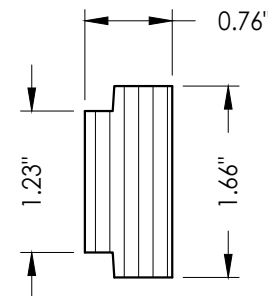
REVISIONS

**7 STEEL DOOR**  
OPAQUE

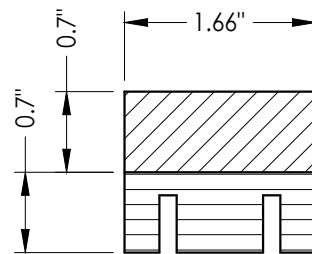
**1** **HORIZONTAL CROSS SECTION**



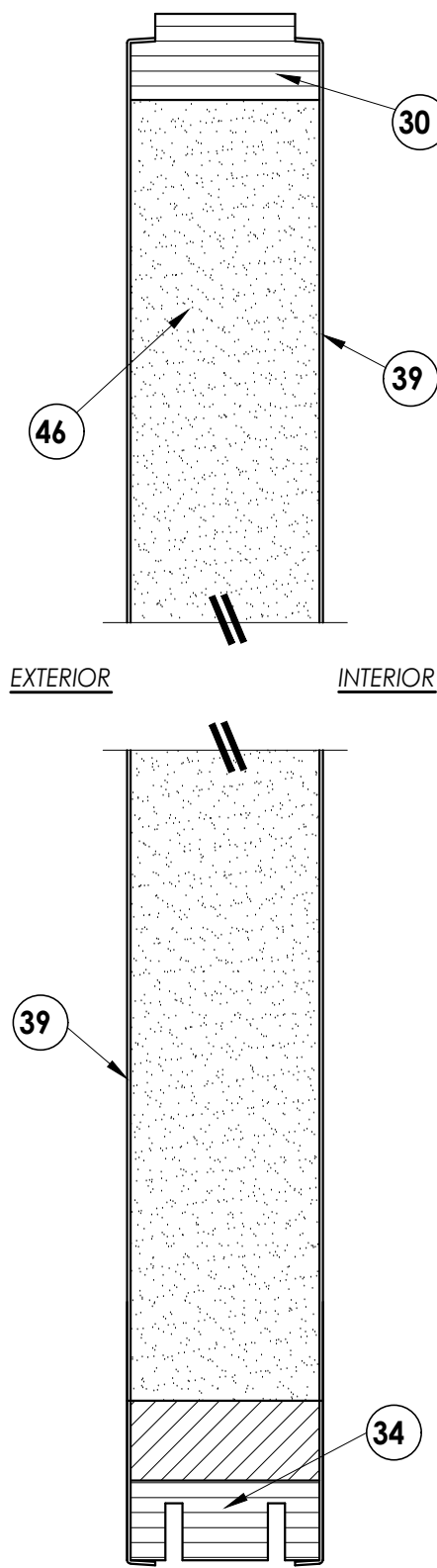
**31** LOCK BLOCK



## 30 HINGE & LATCH STILE & TOP RAIL



**34 BOTTOM RAIL**

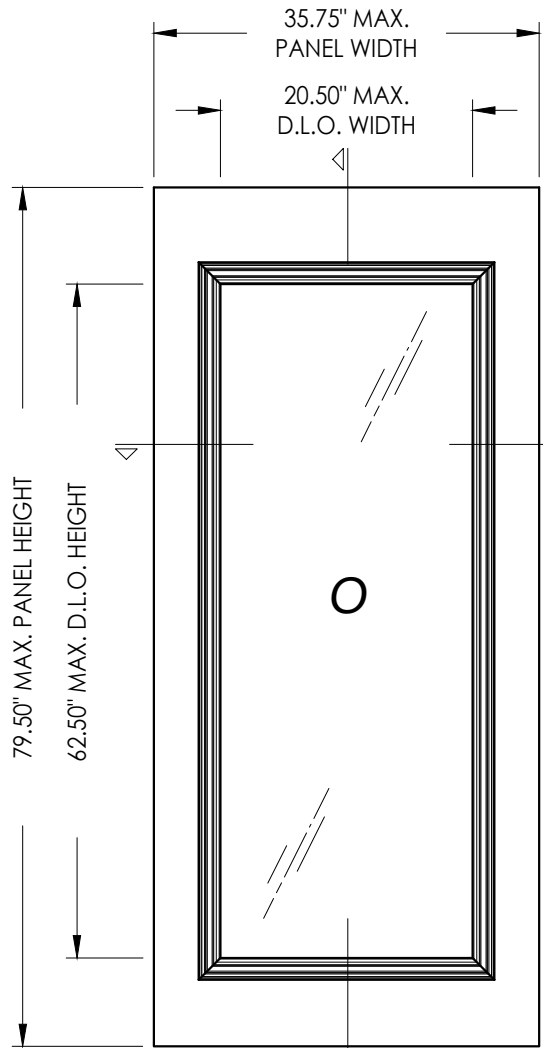


**2** VERTICAL CROSS SECTION  
**2**

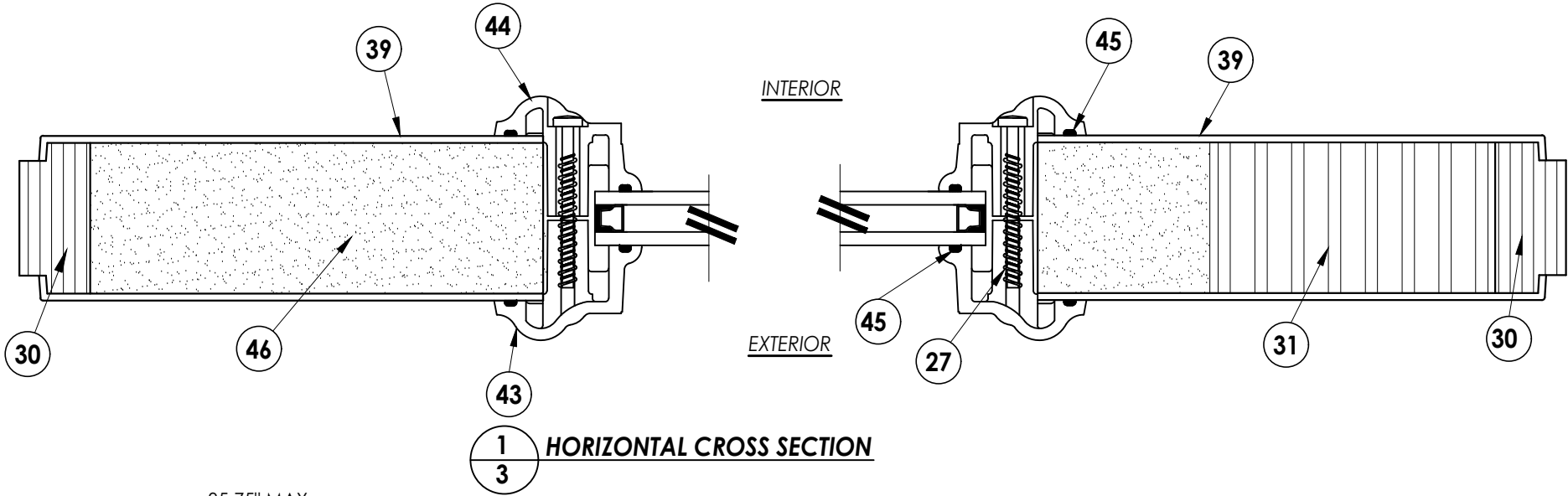
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|                            |          |                          |     |           |  |  |  |
|                            |          |                          |     |           |  |  |  |
| 3                          | 8/07/23  | UPDATE TO 8TH ED. (2023) | FBC | LFS       |  |  |  |
| 2                          | 9/16/20  | UPDATE TO 7TH ED. (2020) | FBC | LFS       |  |  |  |
| 1                          | 10/08/17 | UPDATE TO 6TH ED. (2017) | FBC | JK        |  |  |  |
| NO.                        | DATE     |                          |     | BY        |  |  |  |
|                            |          |                          |     | REVISIONS |  |  |  |
| DATE: 7/18/15              |          |                          |     |           |  |  |  |
| SCALE: N.T.S.              |          |                          |     |           |  |  |  |
| DWG. BY: JK                |          |                          |     |           |  |  |  |
| CHK. BY: LFS               |          |                          |     |           |  |  |  |
| DRAWING NO.:<br>FL-17903.5 |          |                          |     |           |  |  |  |
| SHEET 2 OF 9               |          |                          |     |           |  |  |  |

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Lyndon F. Schmidt  
P.E. No. 43409

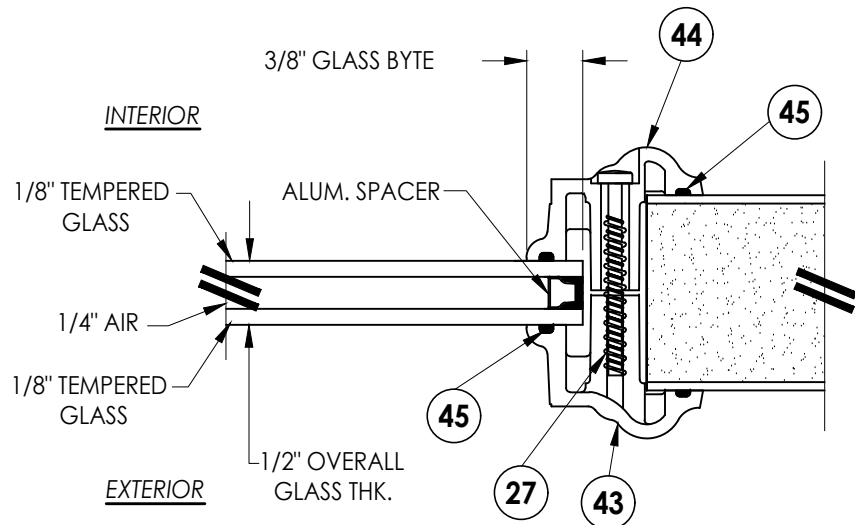
**R<sup>W</sup>**  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813



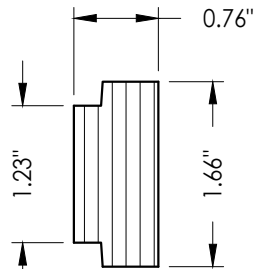
7A **STEEL SIDELITE  
GLAZED**



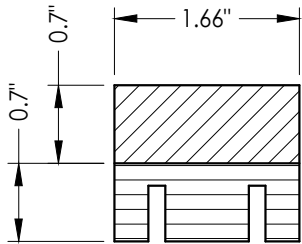
1  
3 **HORIZONTAL CROSS SECTION**



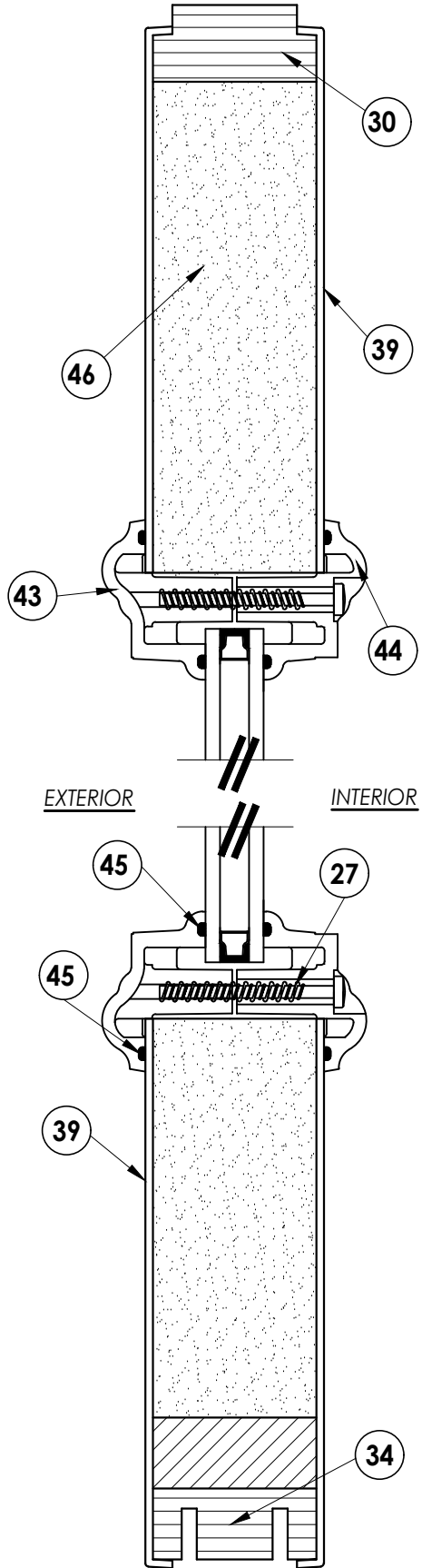
G1 **GLAZING DETAIL**



30 **HINGE & LATCH STILE & TOP RAIL**



34 **BOTTOM RAIL**



2  
3 **VERTICAL CROSS SECTION**

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17903.5

SHEET 3 OF 9

PRODUCT:  
STEVE'S AND SONS

PART OR ASSEMBLY:  
SIDELITE PANEL CONSTRUCTION  
DETAILS AND GLAZING DETAIL

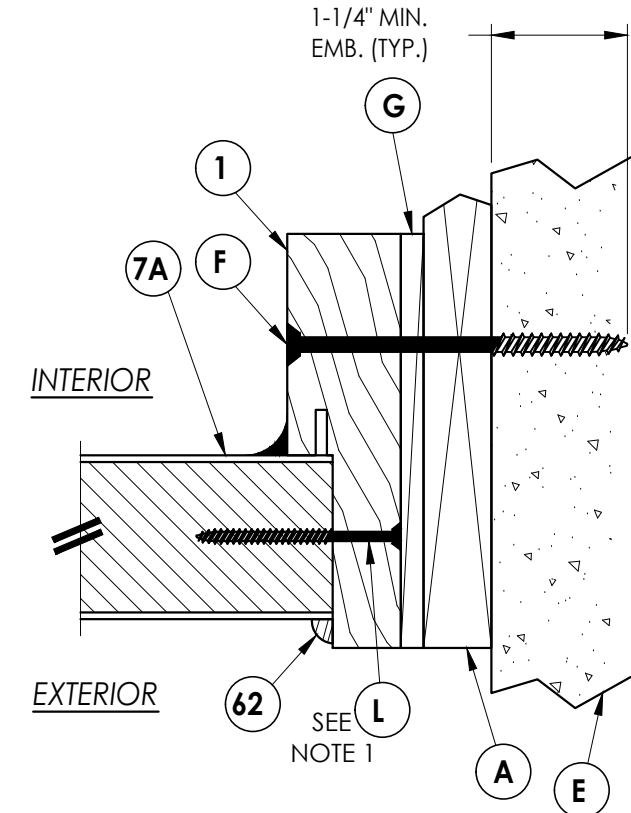
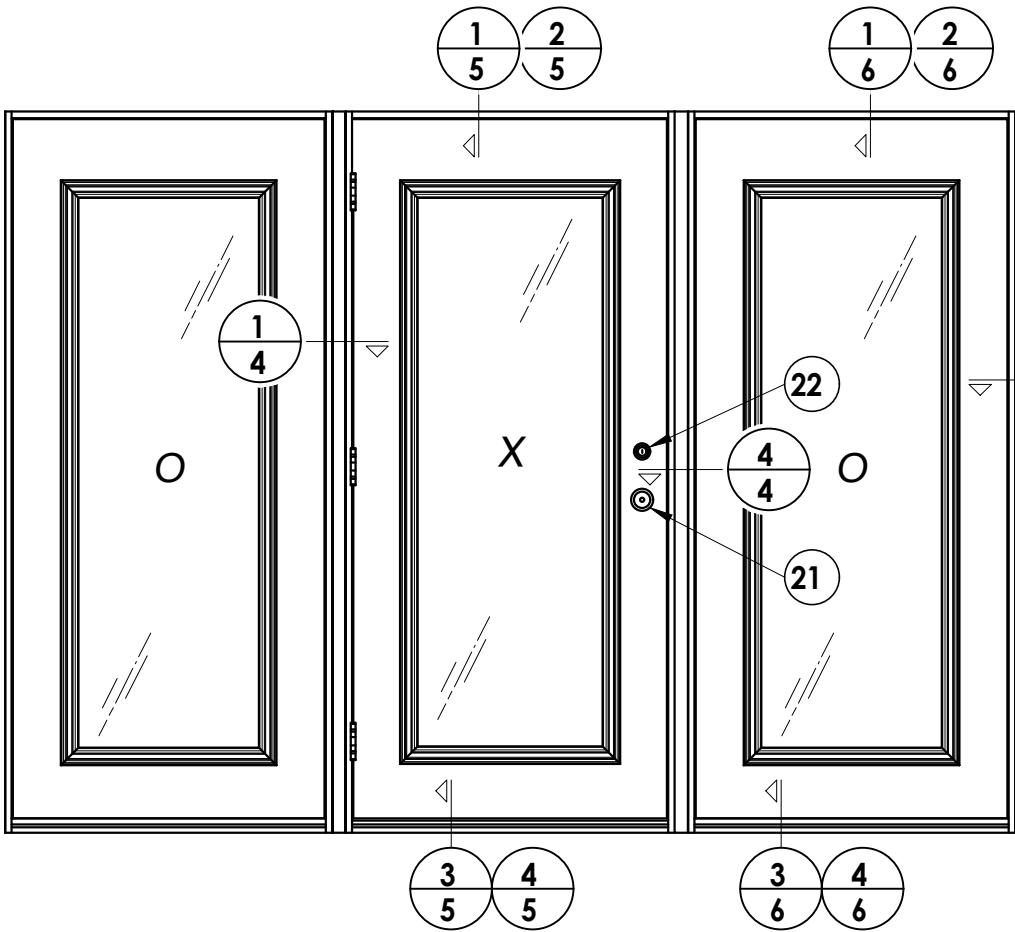
Documents Prepared By:  
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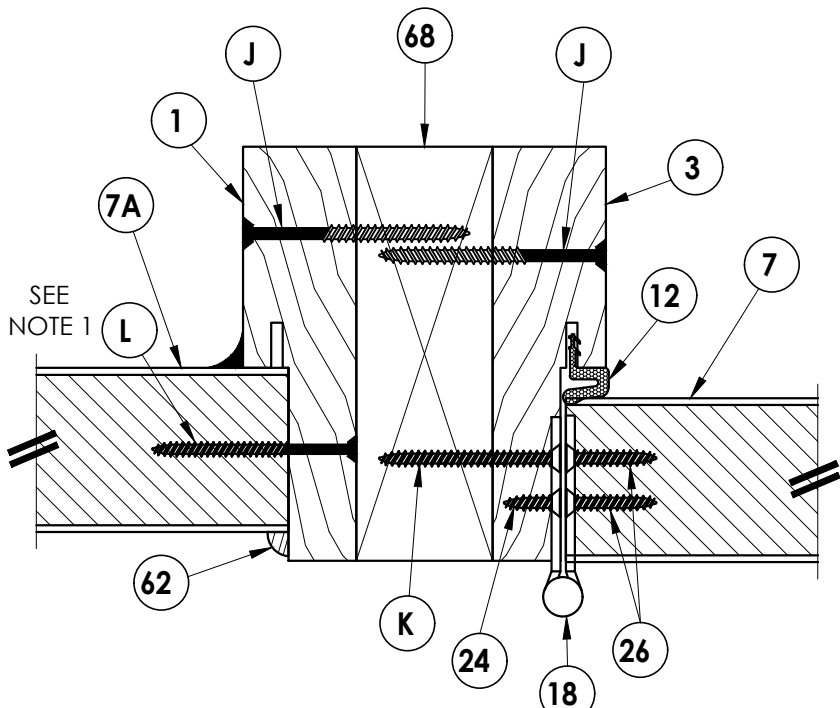
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NOTE:

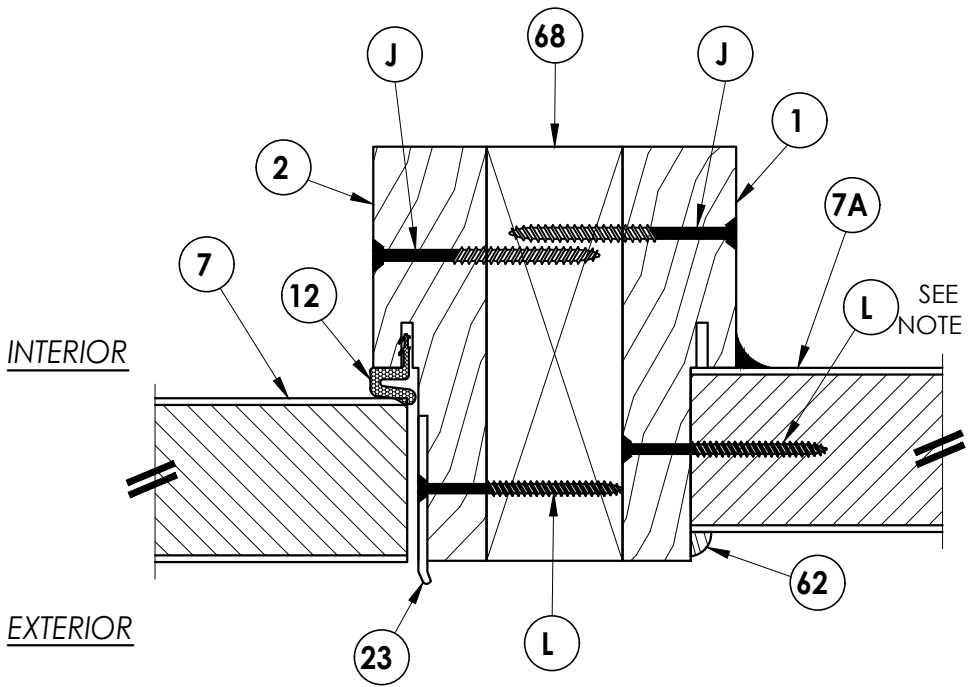
1. Sidelite ass'y fastener; 6" from each end and 6 more screws equally spaced between. (8 screws total per jamb.)



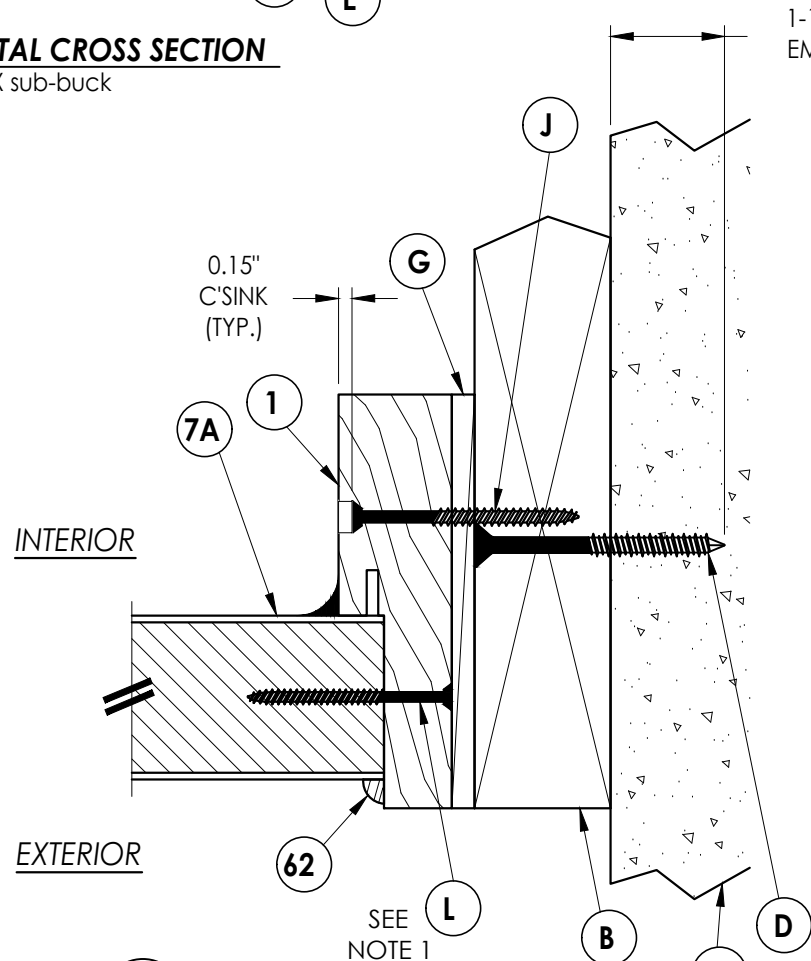
3 HORIZONTAL CROSS SECTION  
Shown w/1X sub-buck



1 HORIZONTAL CROSS SECTION



4 HORIZONTAL CROSS SECTION



2 HORIZONTAL CROSS SECTION  
Outswing shown - inswing also approved

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

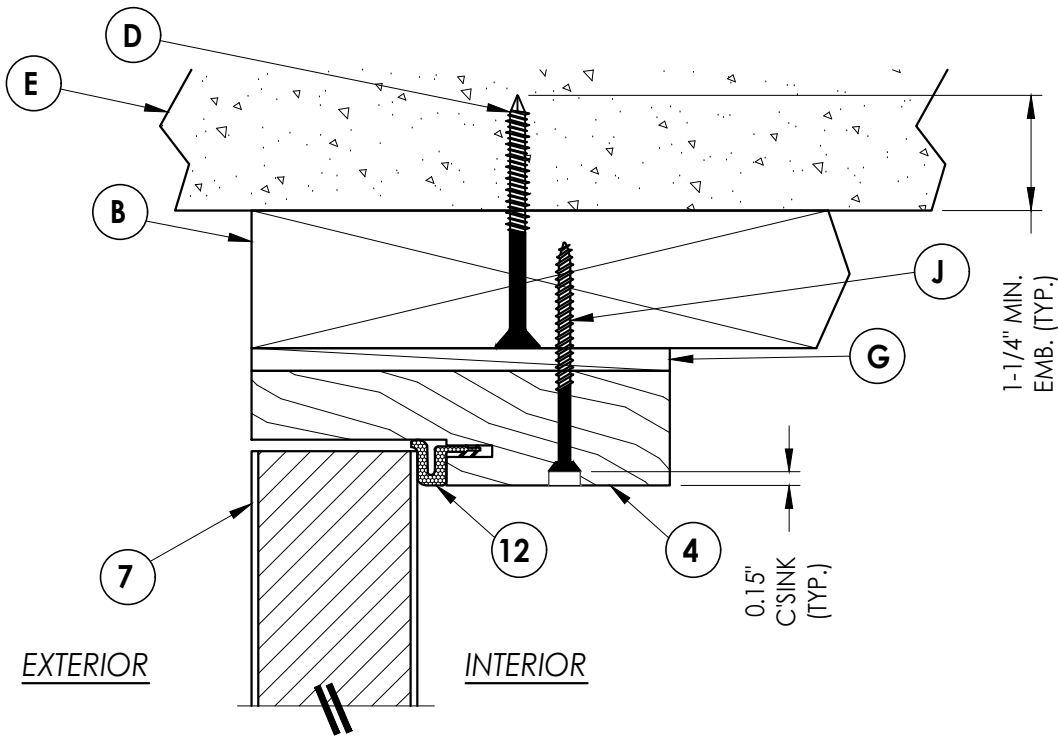
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

| PRODUCT:                  |  |
|---------------------------|--|
| STEVES AND SONS           |  |
| PART OR ASSEMBLY:         |  |
| HORIZONTAL CROSS SECTIONS |  |

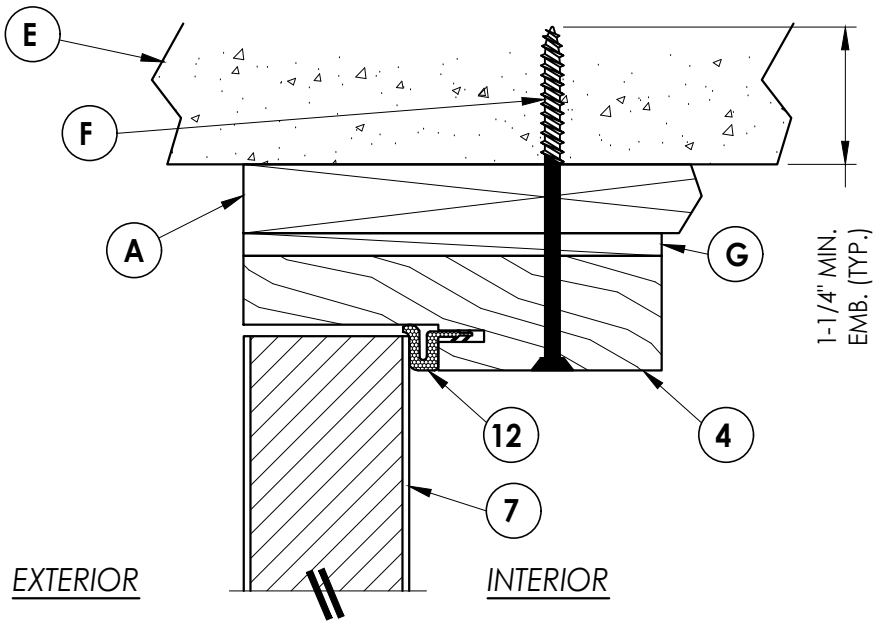
| REVISIONS |          |
|-----------|----------|
| NO.       | DATE     |
| 3         | 8/07/23  |
| 2         | 9/16/20  |
| 1         | 10/08/17 |

|              |            |
|--------------|------------|
| DATE:        | 7/18/15    |
| SCALE:       | N.T.S.     |
| DWG. BY:     | JK         |
| CHK. BY:     | LFS        |
| DRAWING NO.: | FL-17903.5 |
| SHEET        | 4 of 9     |

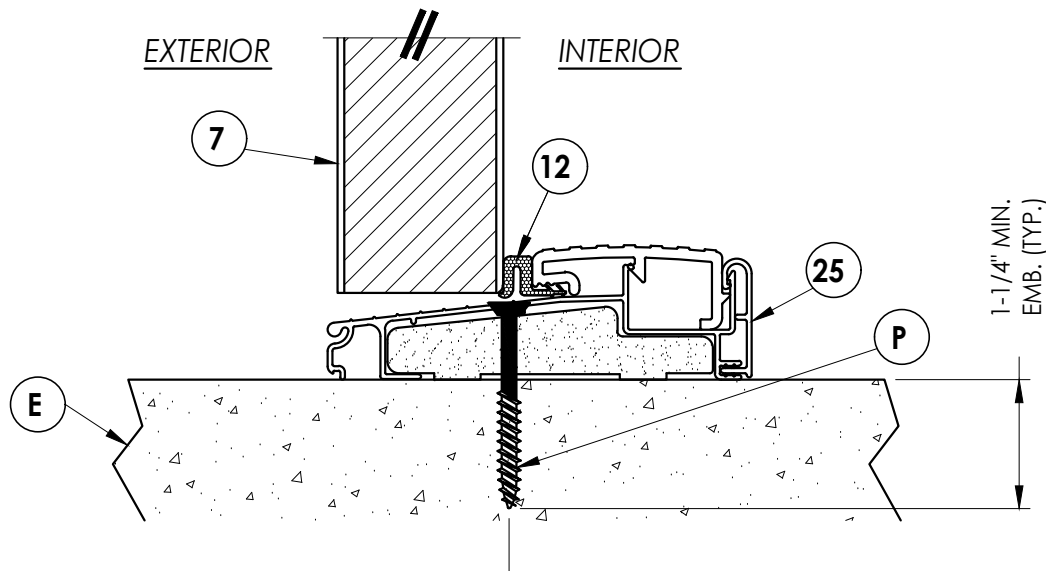
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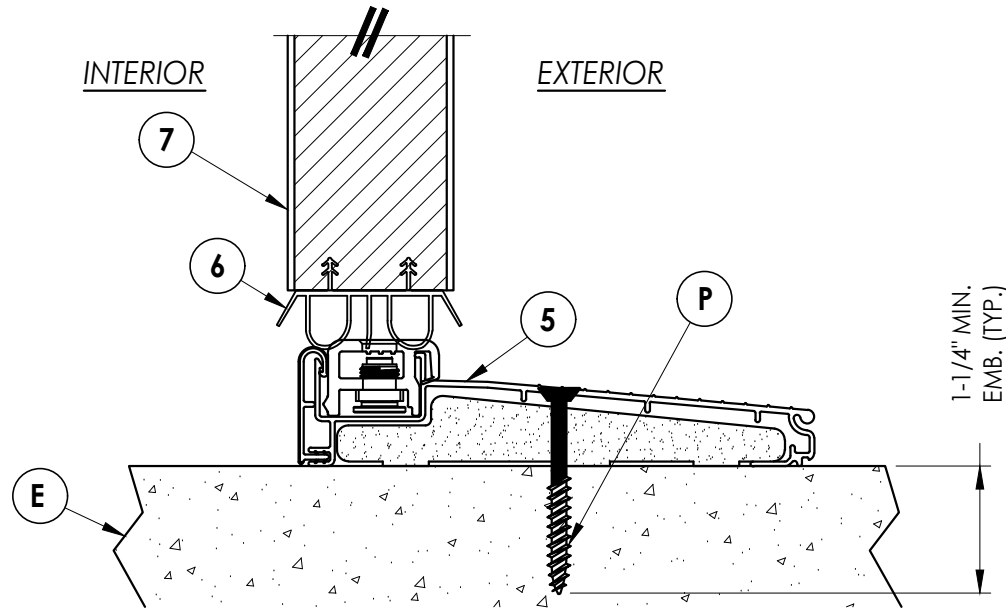
**1**  
**5** **VERTICAL CROSS SECTION**  
Outswing shown - inswing  
also approved



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



**3**  
**5** **VERTICAL CROSS SECTION**  
Outswing sill



**4**  
**5** **VERTICAL CROSS SECTION**  
Inswing sill

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

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:  
STEVES AND SONS

PART OR ASSEMBLY:  
VERTICAL CROSS SECTIONS

| NO. | DATE     | REVISIONS                        |
|-----|----------|----------------------------------|
| 3   | 8/07/23  | UPDATE TO 8TH ED. (2023) FBC LFS |
| 2   | 9/16/20  | UPDATE TO 7TH ED. (2020) FBC LFS |
| 1   | 10/08/17 | UPDATE TO 6TH ED. (2017) FBC JK  |

DATE: 7/18/15

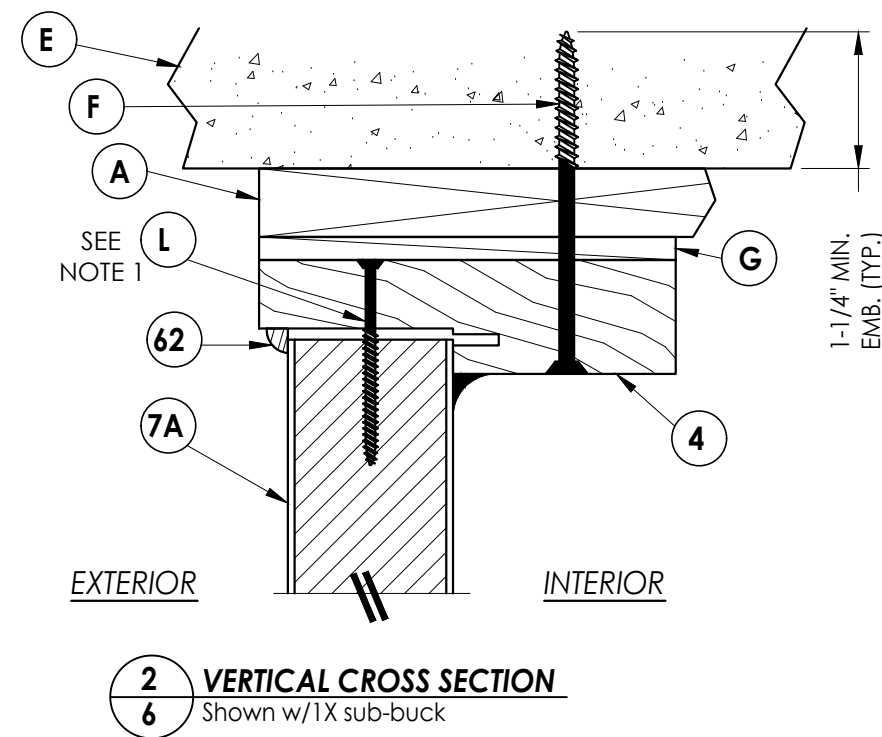
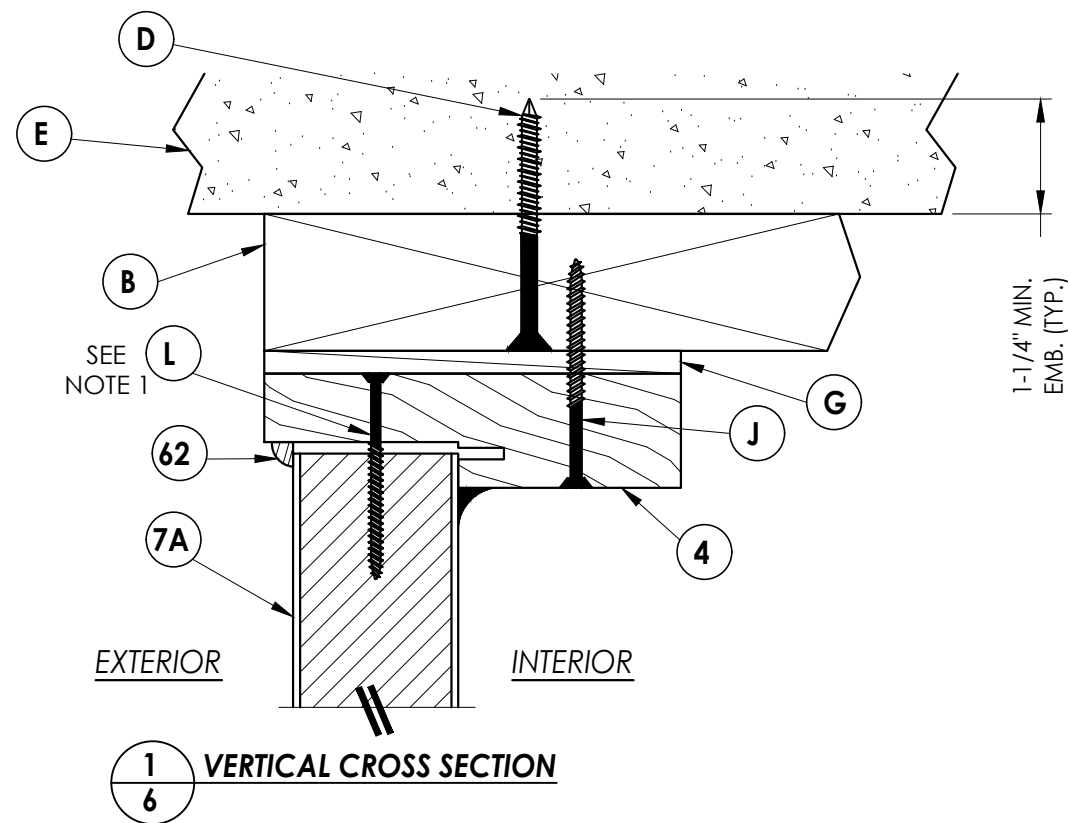
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DWG. BY: JK

CHK. BY: LFS

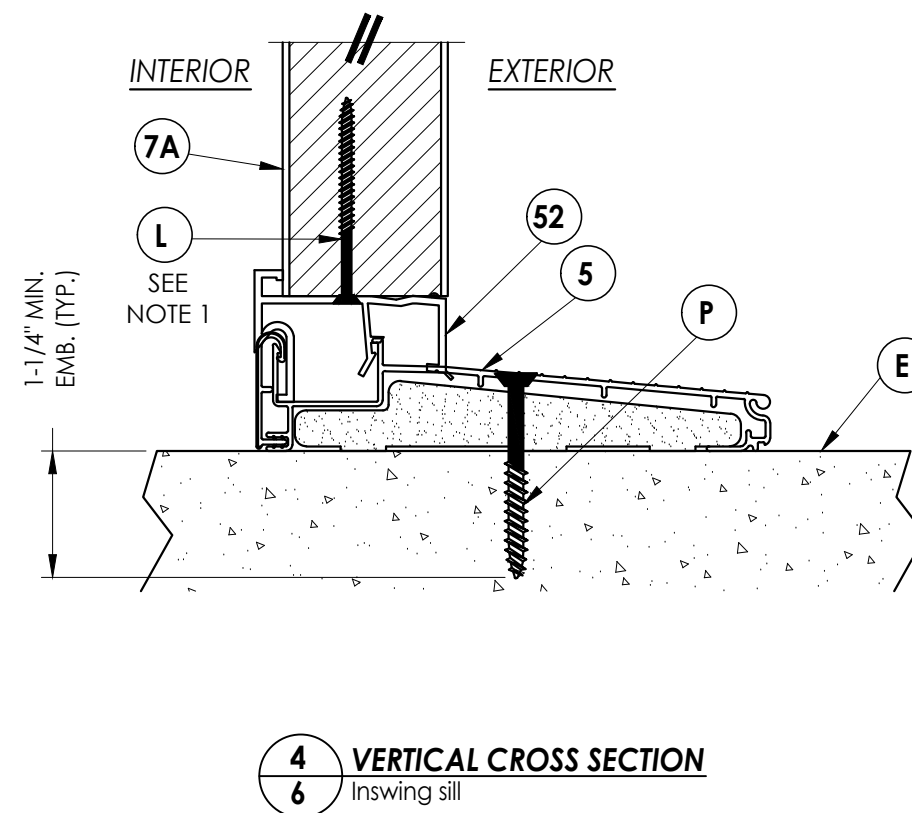
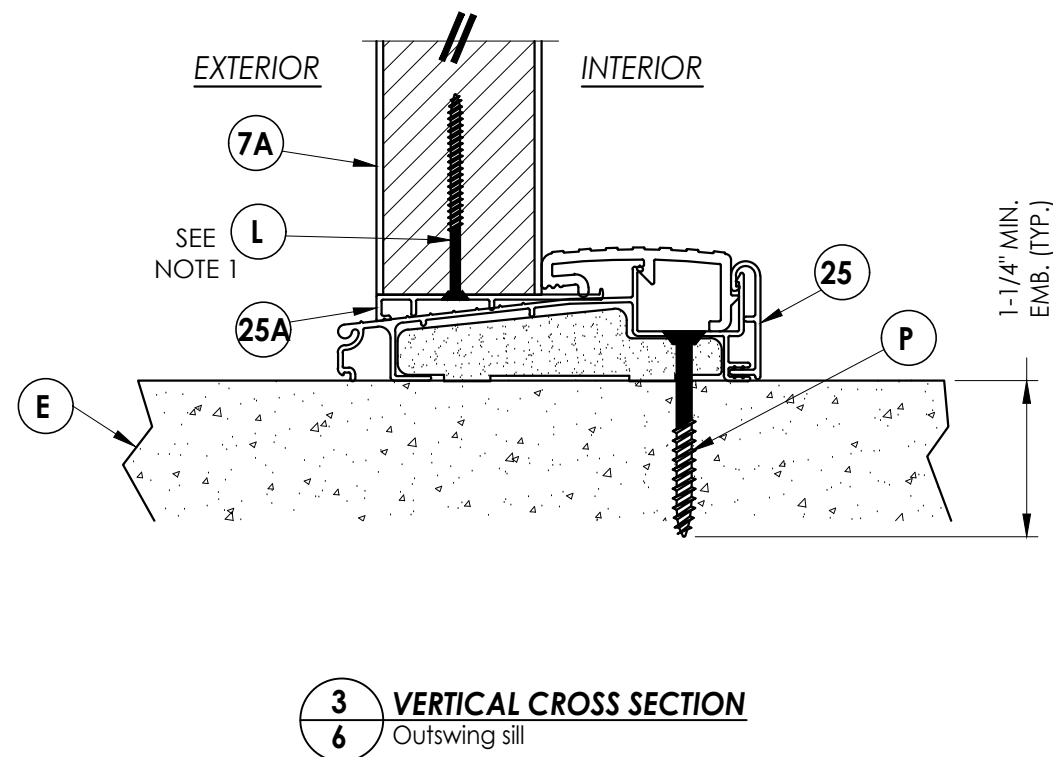
DRAWING NO.: FL-17903.5

SHEET 5 OF 9



NOTE:

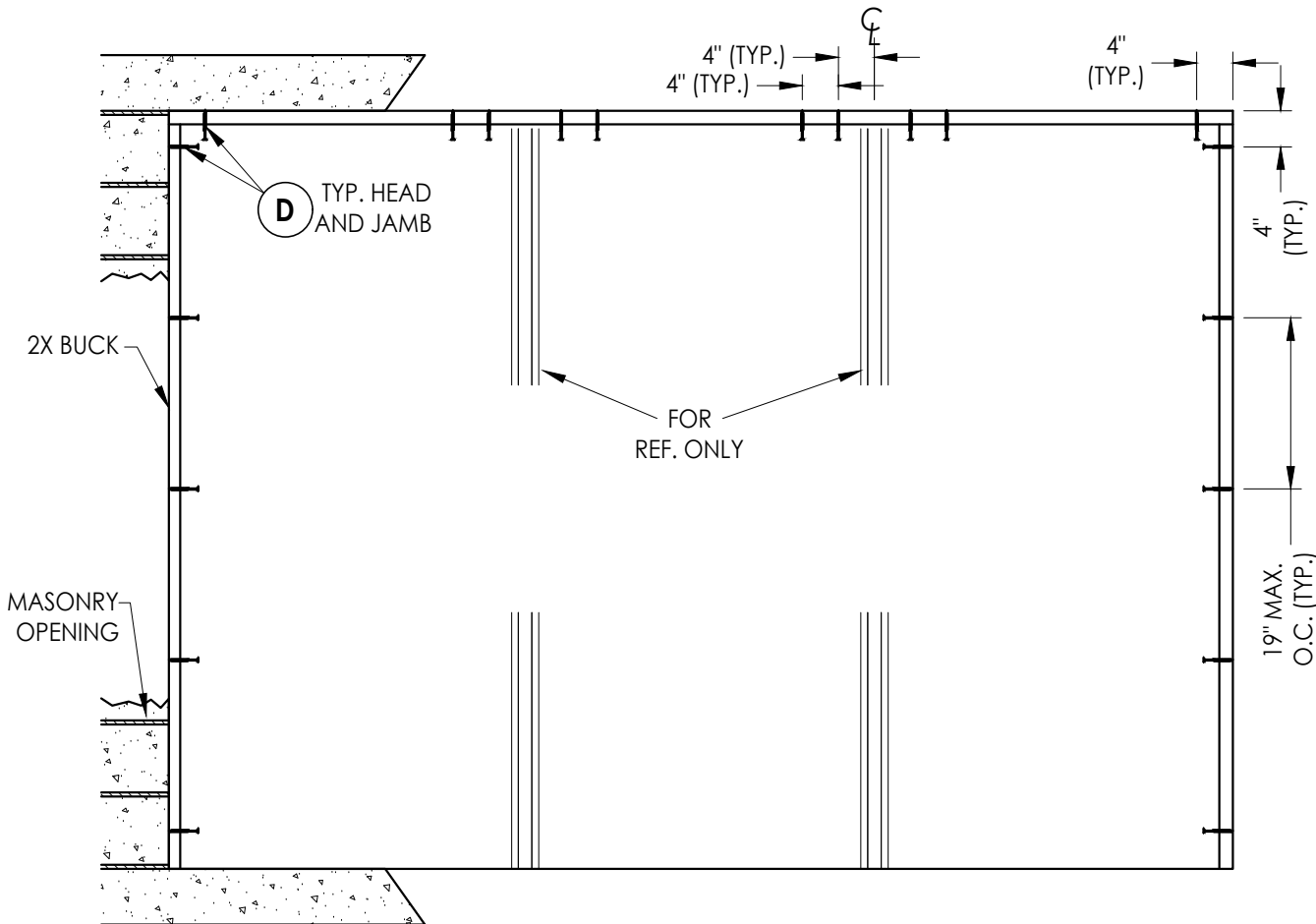
1. Screws thru head and sill jamb located 3" from each end and on centerline.

[illegible]

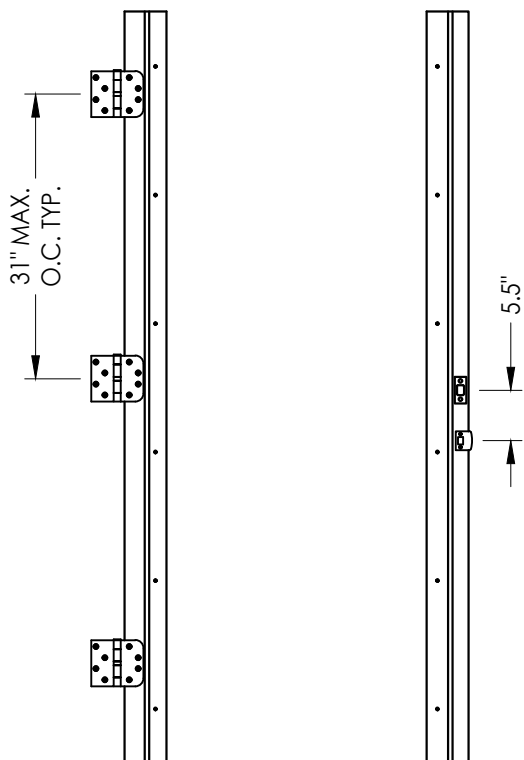
Documents Prepared By:  
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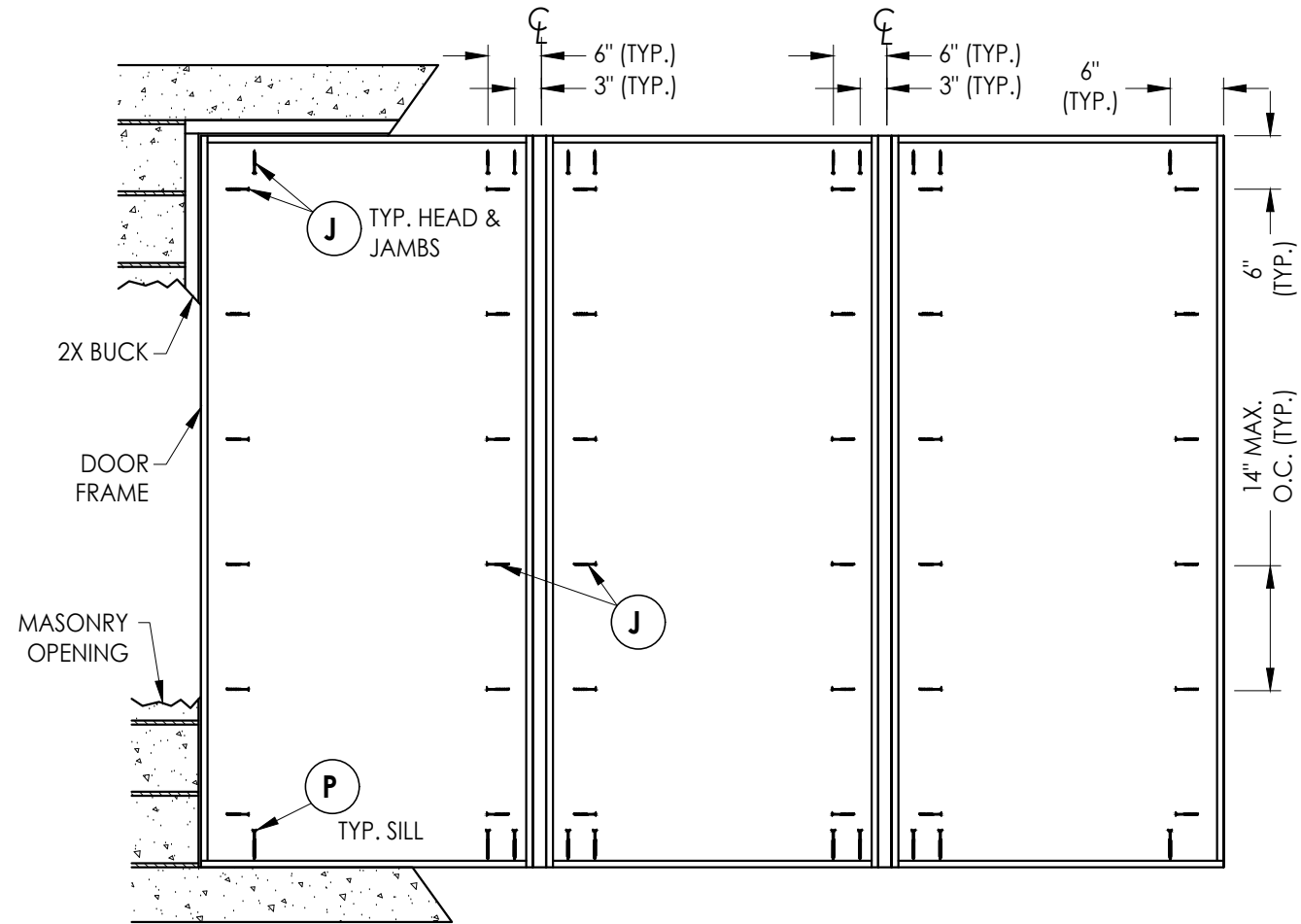


BUCK ANCHORING

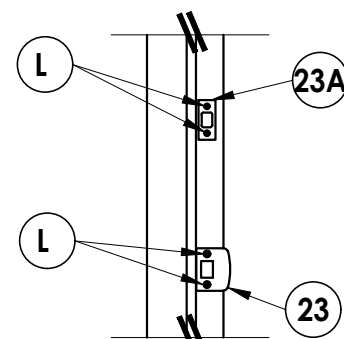


HINGE JAMB

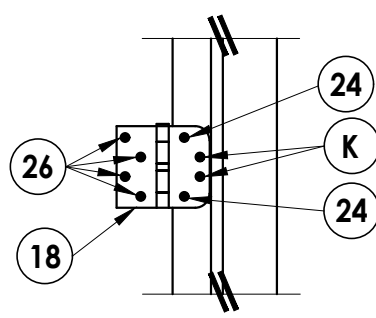
STRIKE JAMB



FRAME ANCHORING  
Masonry 2X buck construction



STRIKE PLATE DETAIL



HINGE DETAIL 1

September 21, 2020

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

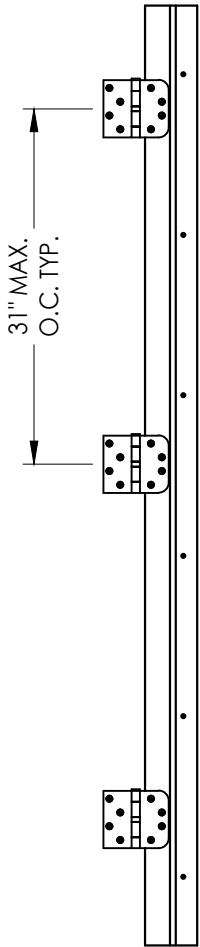
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| PRODUCT:          |  | STEVE'S AND SONS                                         |  |
| PART OR ASSEMBLY: |  | BUCK AND FRAME ANCHORING<br>2X BUCK MASONRY CONSTRUCTION |  |

|           |  |          |  |                          |  |     |  |    |  |
|-----------|--|----------|--|--------------------------|--|-----|--|----|--|
| REVISIONS |  | NO.      |  | DATE                     |  | BY  |  | JK |  |
| 1         |  | 10/08/17 |  | UPDATE TO 6TH ED. (2017) |  | FBC |  | JK |  |

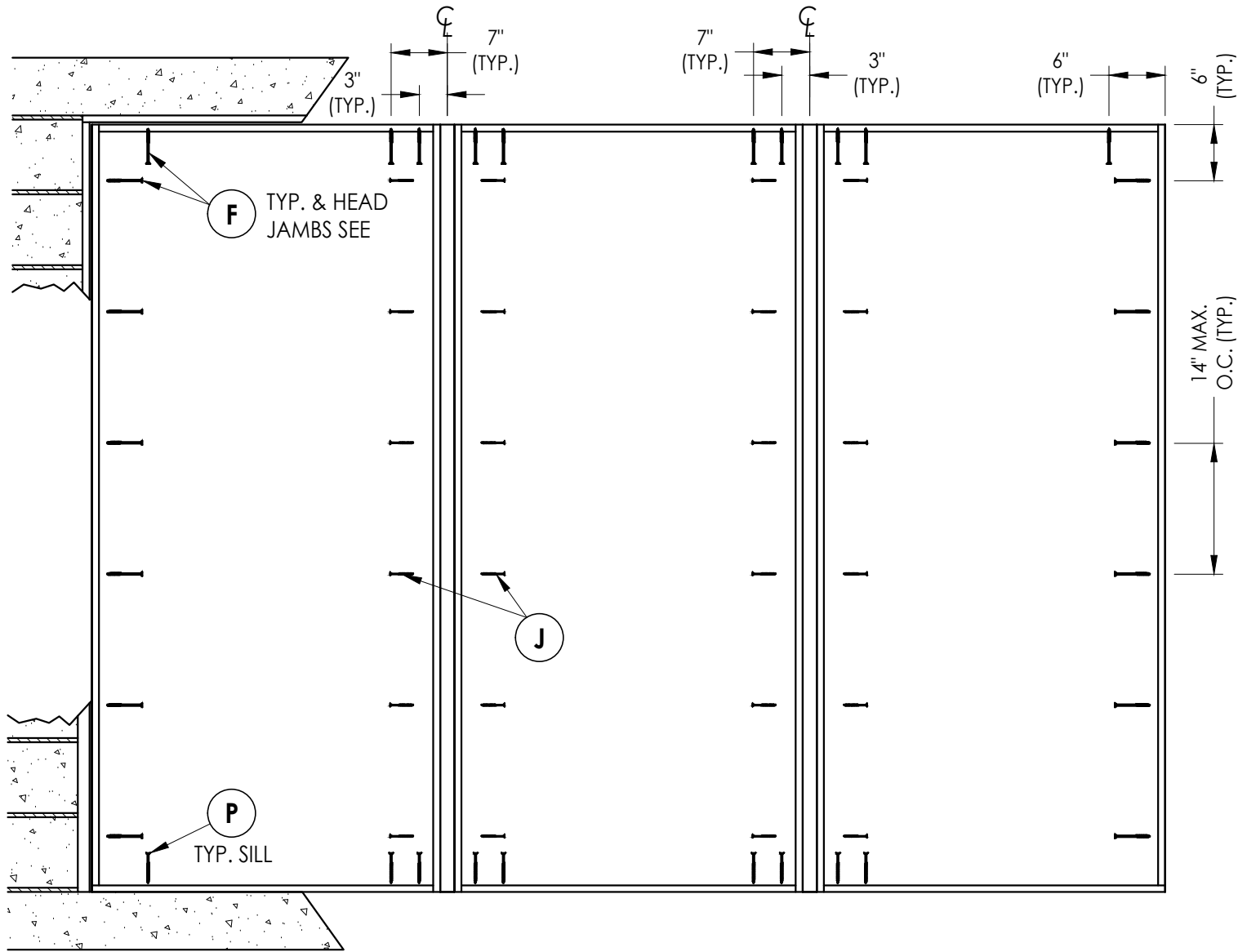
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| SCALE:       |  | N.T.S.     |  |
| DWG. BY:     |  | JK         |  |
| CHK. BY:     |  | LFS        |  |
| DRAWING NO.: |  | FL-17903.5 |  |
| SHEET        |  | 7 OF 9     |  |

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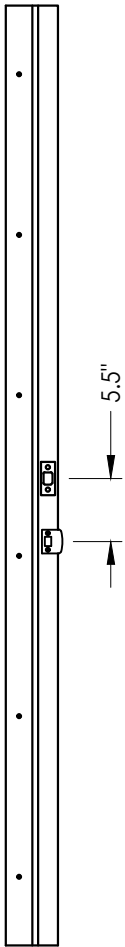
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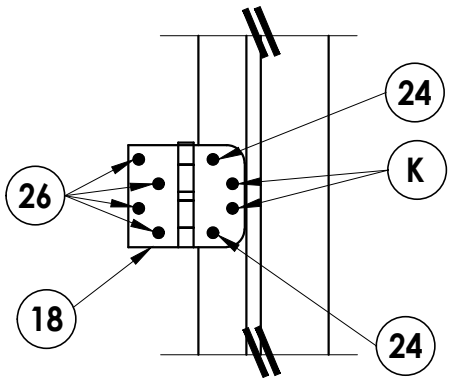
HINGE JAMB



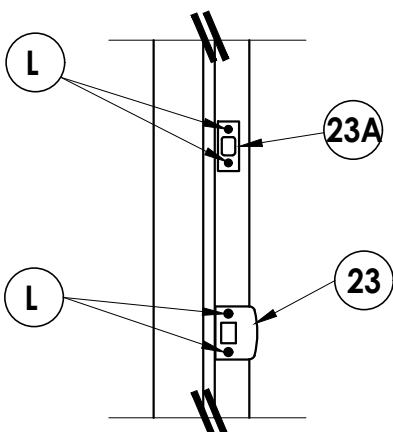
FRAME ANCHORING  
Masonry 1X buck construction



STRIKE JAMB



HINGE DETAIL



STRIKE PLATE DETAIL

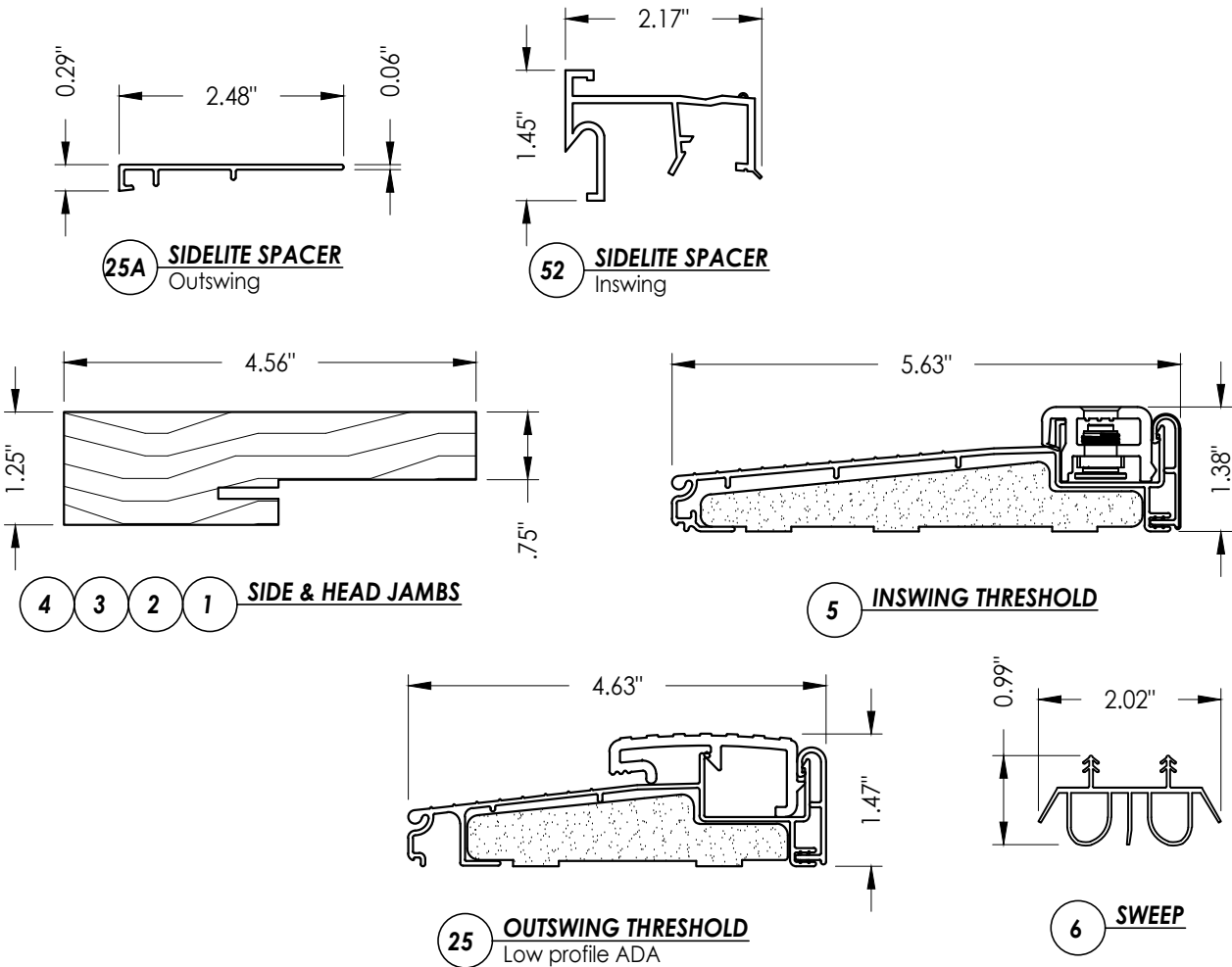
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| DWG. BY:     |   | JK         |
| CHK. BY:     |   | LFS        |
| DRAWING NO.: |   | FL-17903.5 |
| SHEET        | 8 | OF 9       |

|          |                                                 |  |
|----------|-------------------------------------------------|--|
| PRODUCT: | STEVES AND SONS                                 |  |
|          | PART OR ASSEMBLY:                               |  |
|          | FRAME ANCHORING<br>1X BUCK MASONRY CONSTRUCTION |  |

|                        |                                                                                                                    |  |
|------------------------|--------------------------------------------------------------------------------------------------------------------|--|
| Documents Prepared By: | 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 |  |

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| BILL OF MATERIALS |                                                                                                |               |
|-------------------|------------------------------------------------------------------------------------------------|---------------|
| ITEM              | DESCRIPTION                                                                                    | MATERIAL      |
| A                 | 1X BUCK SG >= 0.55                                                                             | WOOD          |
| B                 | 2X BUCK SG >= 0.55                                                                             | WOOD          |
| D                 | 1/4" X 2-3/4" DeWALT OR ITW PFH 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 3-3/4" DeWALT OR ITW PFH CONCRETE SCREW                                                 | STEEL         |
| G                 | MAX. 1/4" SHIM SPACE                                                                           | WOOD          |
| J                 | #10 X 2-1/2" PFH WS (1.15" MIN. EMBEDMENT)                                                     | STEEL         |
| K                 | #9 X 2" PFH WS                                                                                 | STEEL         |
| L                 | #8 X 2-1/2" PFH WS                                                                             | STEEL         |
| P                 | 1/4" X 2-1/4" DeWALT OR ITW PFH CONCRETE SCREW                                                 | STEEL         |
| 1                 | SIDELITE JAMB - FINGER-JOINT PINE - SG >= 0.42                                                 | WOOD          |
| 2                 | STRIKE JAMB - FINGER-JOINT PINE - SG >= 0.42                                                   | WOOD          |
| 3                 | HINGE JAMB - FINGER-JOINT PINE - SG >= 0.42                                                    | WOOD          |
| 4                 | HEAD - FINGER-JOINT PINE - SG >= 0.42                                                          | WOOD          |
| 5                 | INSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE                                              | ALUM/COMP.    |
| 6                 | DOOR BOTTOM SWEEP                                                                              | PVC           |
| 7                 | STEEL DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS                        | -             |
| 7A                | STEEL SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS                | -             |
| 12                | WEATHERSTRIP QEBD650 Q-LON                                                                     | -             |
| 18                | 4" HINGE                                                                                       | STEEL         |
| 21                | KWIKSET LOCK - SERIES 200 PASSAGE                                                              | -             |
| 22                | KWIKSET DEADBOLT - SERIES 600                                                                  | -             |
| 23                | STRIKE PLATE                                                                                   | STEEL         |
| 23A               | DEADBOLT STRIKE                                                                                | STEEL         |
| 24                | #9 X 5/8" PFH WS                                                                               | STEEL         |
| 25                | OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE                                             | ALUM./ COMP.  |
| 25A               | SIDELITE SPACER -OUTSWING                                                                      | PVC           |
| 26                | #9 X 1" PFH WS                                                                                 | STEEL         |
| 27                | #8 x 1 1/2" PPH SCREW                                                                          | STEEL         |
| 30                | LATCH AND HINGE STILE - SG >= 0.42                                                             | LVL/PVC       |
| 31                | LOCK BLOCK                                                                                     | WOOD          |
| 33                | TOP RAIL - POPLAR LVL & WPC COMBINATION                                                        | POPLAR/WPC    |
| 34                | BOTTOM RAIL - POPLAR LVL & WPC COMBINATION                                                     | POPLAR/WPC    |
| 36                | LITE OPENING STILE REINF. - SG>= 0.42                                                          | WOOD          |
| 39                | STEEL SKIN 0.025" MIN. THICKNESS                                                               | STEEL         |
| 40                | #8 X 1-1/2" PANHEAD SMS (LIGHT FRAME SCREW)                                                    | STEEL         |
| 43                | FEMALE LITE FRAME- WESTERN REFLECTIONS/ODL                                                     | POLYPROPYLENE |
| 44                | MALE LITE FRAME- WESTERN REFLECTIONS/ODL                                                       | POLYPROPYLENE |
| 45                | SILICONE SEALANT                                                                               | BUTYL         |
| 46                | INSULATED FOAM CORE                                                                            | POLYURETHANE  |
| 52                | SIDELITE SPACER - INSWING                                                                      | PVC           |
| 62                | QUARTER ROUND                                                                                  | WOOD          |
| 68                | 2X MULLION REINFORCEMENT - SG>= 0.42                                                           | WOOD          |



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 TAPCON®      | 1/4"        | 1-1/4"         | 2"                             | 4"                                |
| DeWALT ULTRACON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |
| ITW TAPCON®      | 3/16"       | 1-1/4"         | 3"                             | 1-1/2"                            |

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.

Documents Prepared By:  
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FBPE Registry No. 9813

PRODUCT:

STEVES AND SONS

PART OR ASSEMBLY:

BILL OF MATERIALS  
& COMPONENTS

DATE: 7/18/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17903.5

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