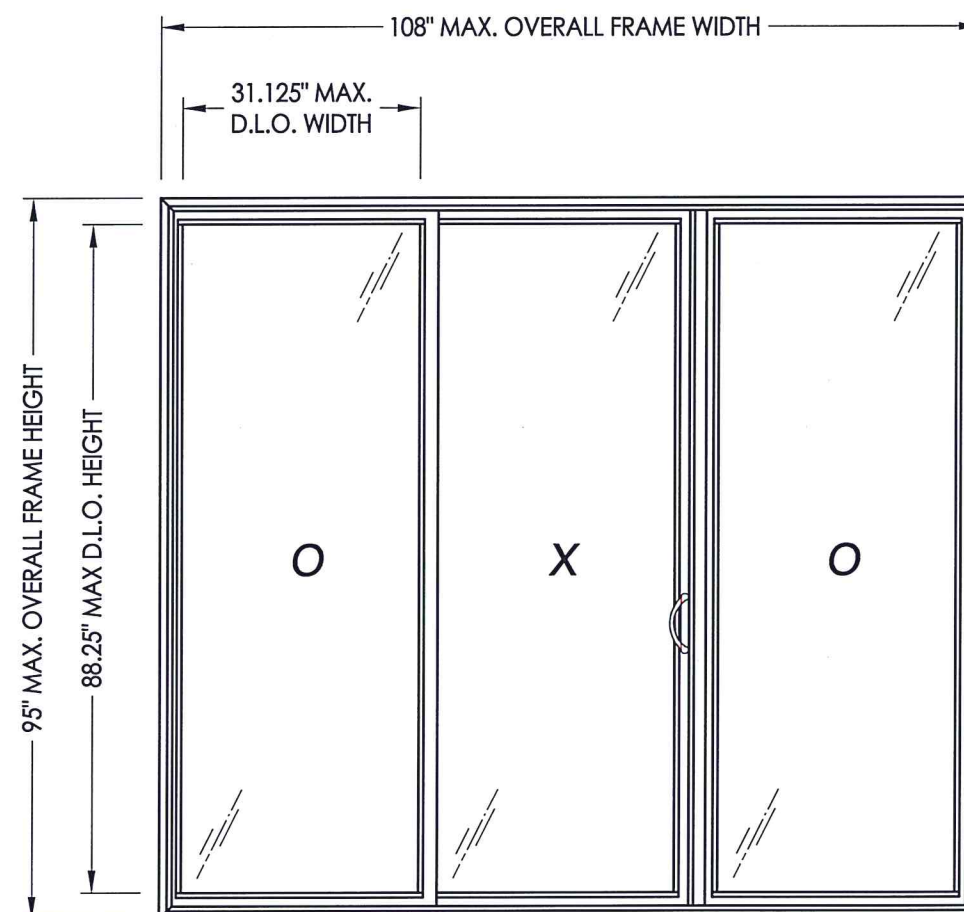




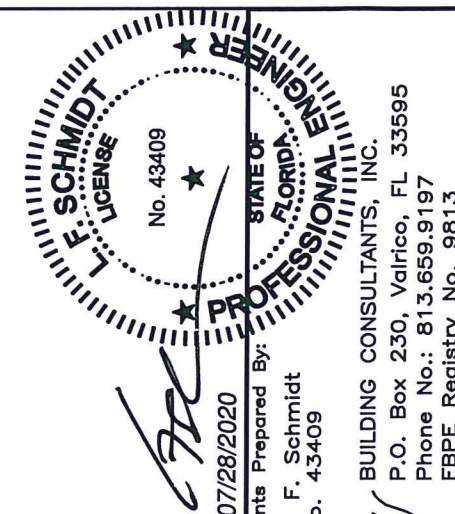
## GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 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                 | Elevation                                            |
| 3                 | Horizontal cross sections                            |
| 4                 | Vertical cross sections                              |
| 5                 | Buck and frame anchoring                             |
| 6                 | Components                                           |
| 7                 | Bill of materials and glazing detail                 |



| MAX<br>FRAME<br>DIMENSION | MAX<br>D.L.O.<br>DIMENSION | GLASS<br>TYPE | DESIGN PRESSURE<br>(PSF) |       |
|---------------------------|----------------------------|---------------|--------------------------|-------|
|                           |                            |               | POS.                     | NEG.  |
| 108.0" X 95.0"            | 31.125" X 88.25"           | G1            | +35.0                    | -40.0 |



Documents Prepared By:  
 -yndon F. Schmidt  
 P.E. No. 43409

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

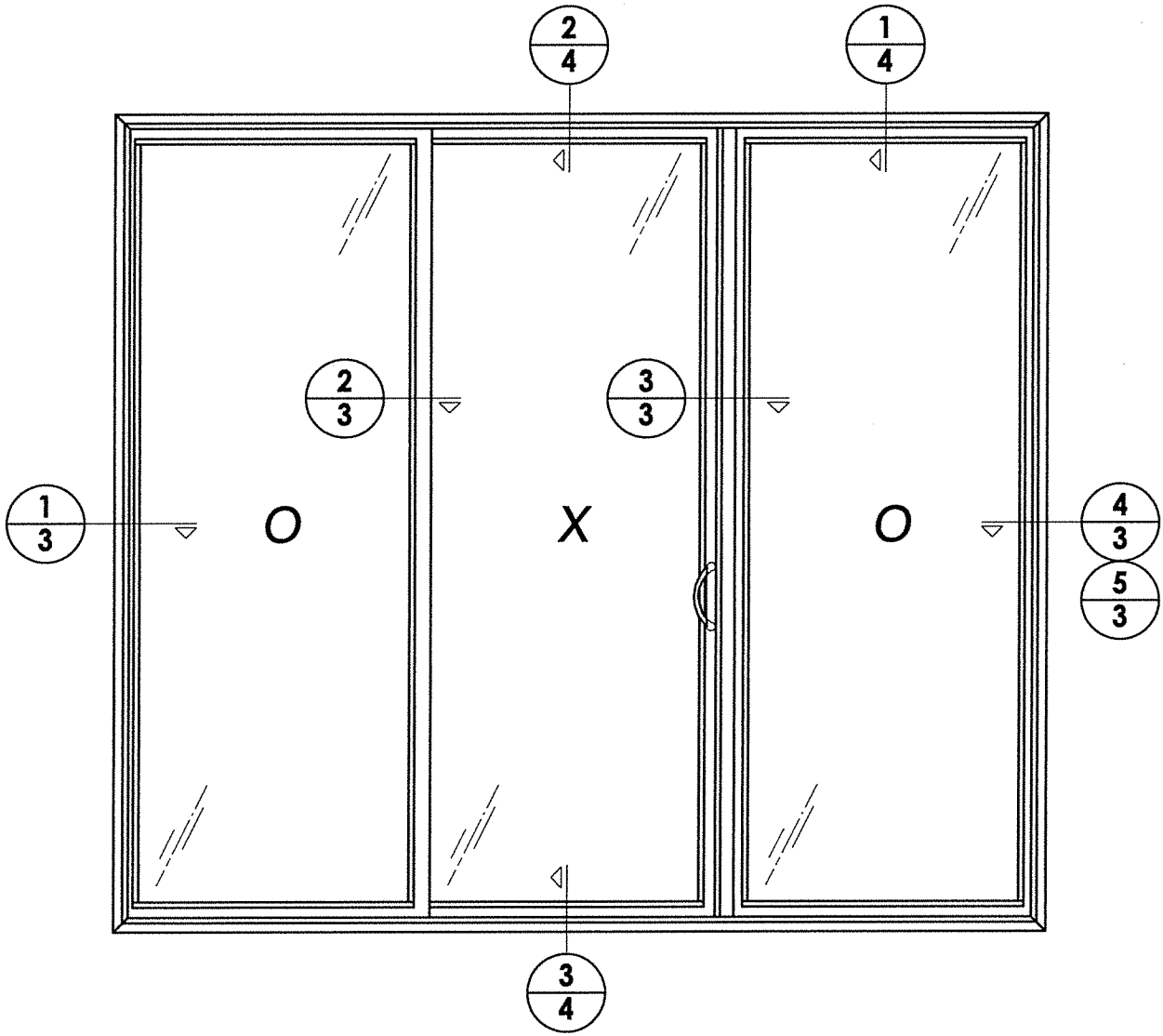
PRODUCT: \_\_\_\_\_ DOERS

PART OR ASSEMBLY: \_\_\_\_\_

TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

|     |          |                          |     |     |           |
|-----|----------|--------------------------|-----|-----|-----------|
|     |          |                          |     |     |           |
|     |          |                          |     |     |           |
|     |          |                          |     |     |           |
| 3   | 7/28/20  | UPDATE TO 7TH ED. (2020) | FBC | DAC |           |
| 2   | 01/12/18 | ADD STEEL STUD ANCHORING |     | JK  |           |
| 1   | 10/05/17 | UPDATE TO 6TH ED. (2017) | FBC | JK  |           |
| NO. | DATE     |                          |     | BY  |           |
|     |          |                          |     |     | REVISIONS |

|              |            |
|--------------|------------|
| DATE:        | 10/20/16   |
| SCALE:       | N.T.S.     |
| DWG. BY:     | JK         |
| CHK. BY:     | LFS        |
| DRAWING NO.: | FL-15450.9 |
| SHEET        | 1 OF 7     |



DATE: 10/20/16  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-15450.9  
SHEET 2 OF 7

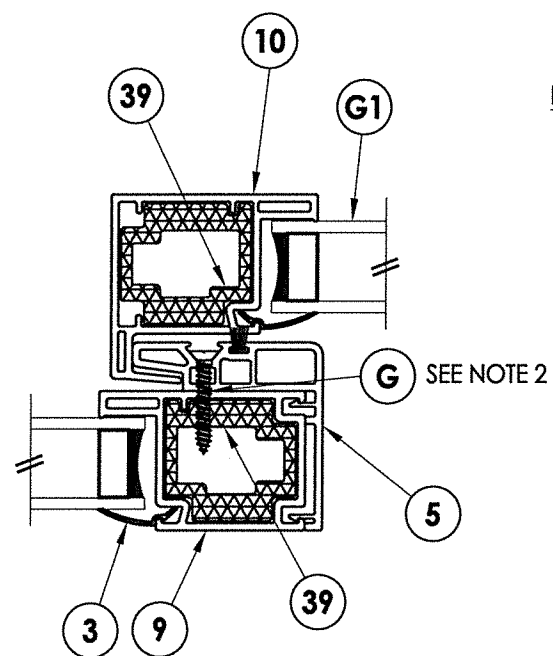
| REVISIONS |          |
|-----------|----------|
| NO.       | DATE     |
| 3         | 7/28/20  |
| 2         | 01/12/18 |
| 1         | 10/05/17 |
|           |          |

| PRODUCT:          |  |
|-------------------|--|
| DOERS             |  |
| PART OR ASSEMBLY: |  |
| ELEVATION         |  |

Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409  
07/28/2020  
F. SCHMIDT  
LICENSE  
No. 43409  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

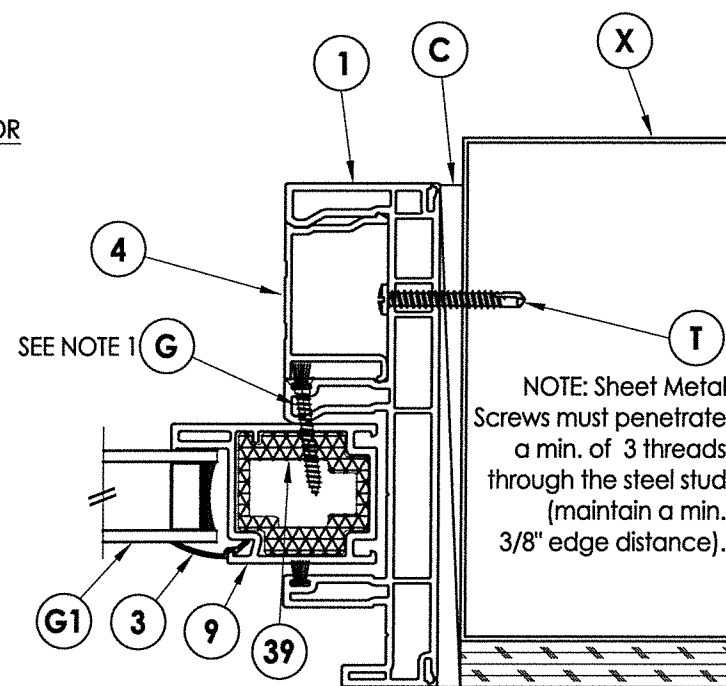


SEE NOTE 1



INTERIOR

SEE NOTE 2



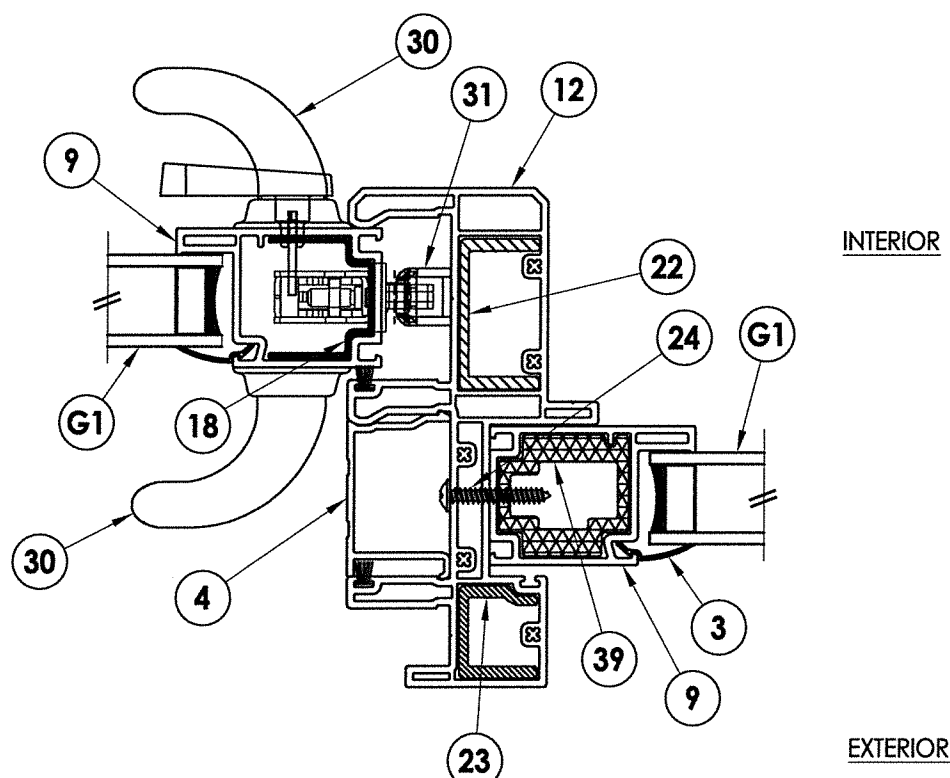
NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through the steel stud (maintain a min. 3/8" edge distance).

EXTERIOR

**1 HORIZONTAL CROSS SECTION**  
**3 2X Buck Masonry Construction**

**2 HORIZONTAL CROSS SECTION**  
**3 ALUM INTERLOCK**

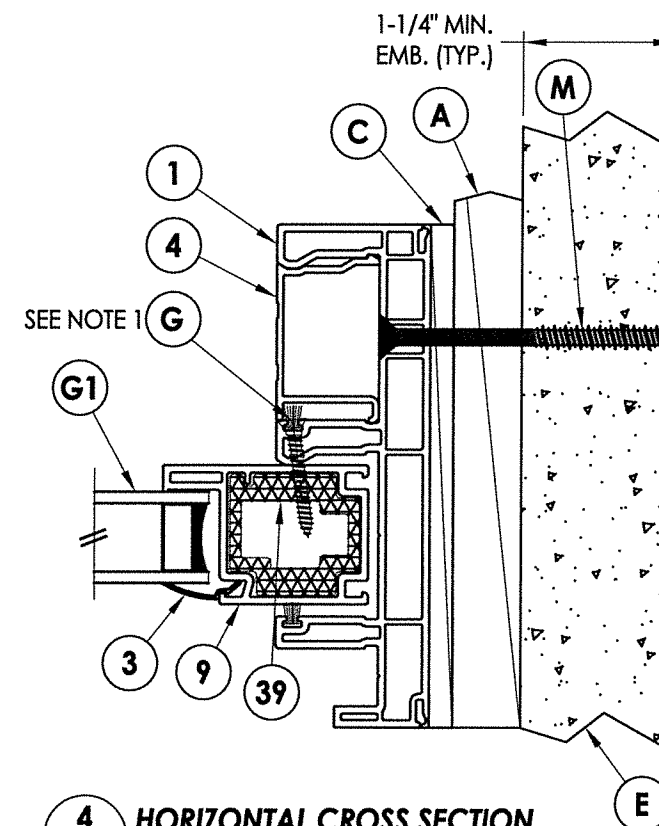
**5 HORIZONTAL CROSS SECTION**  
**3 Steel Stud Construction**



INTERIOR

EXTERIOR

**3 HORIZONTAL CROSS SECTION**  
**3 @Mullion**



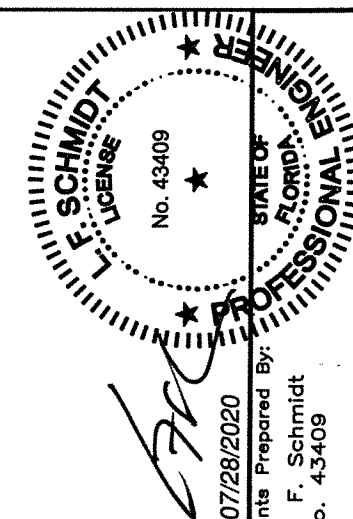
1-1/4" MIN.  
EMB. (TYP.)

SEE NOTE 1

**4 HORIZONTAL CROSS SECTION**  
**3 1X Buck Masonry Construction**

NOTE:

1. Item #G located 6" from each end then 4 more equally spaced (6) total.
2. Item #G located 3" from each end then 5 more equally spaced (7) total.



07/28/2020

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FBPE Registry No. 9813

**PRODUCT:** DOERS

**PART OR ASSEMBLY:**  
**HORIZONTAL  
CROSS SECTIONS**

|     |          |                          |     |     |           |
|-----|----------|--------------------------|-----|-----|-----------|
|     |          |                          |     |     |           |
|     |          |                          |     |     |           |
|     |          |                          |     |     |           |
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| 1   | 10/05/17 | UPDATE TO 6TH ED. (2017) | FBC | JK  |           |
| NO. | DATE     |                          |     | BY  |           |
|     |          |                          |     |     | REVISIONS |

DATE: 10/20/16

SCALE: N.T.S.

DWG. BY: JK

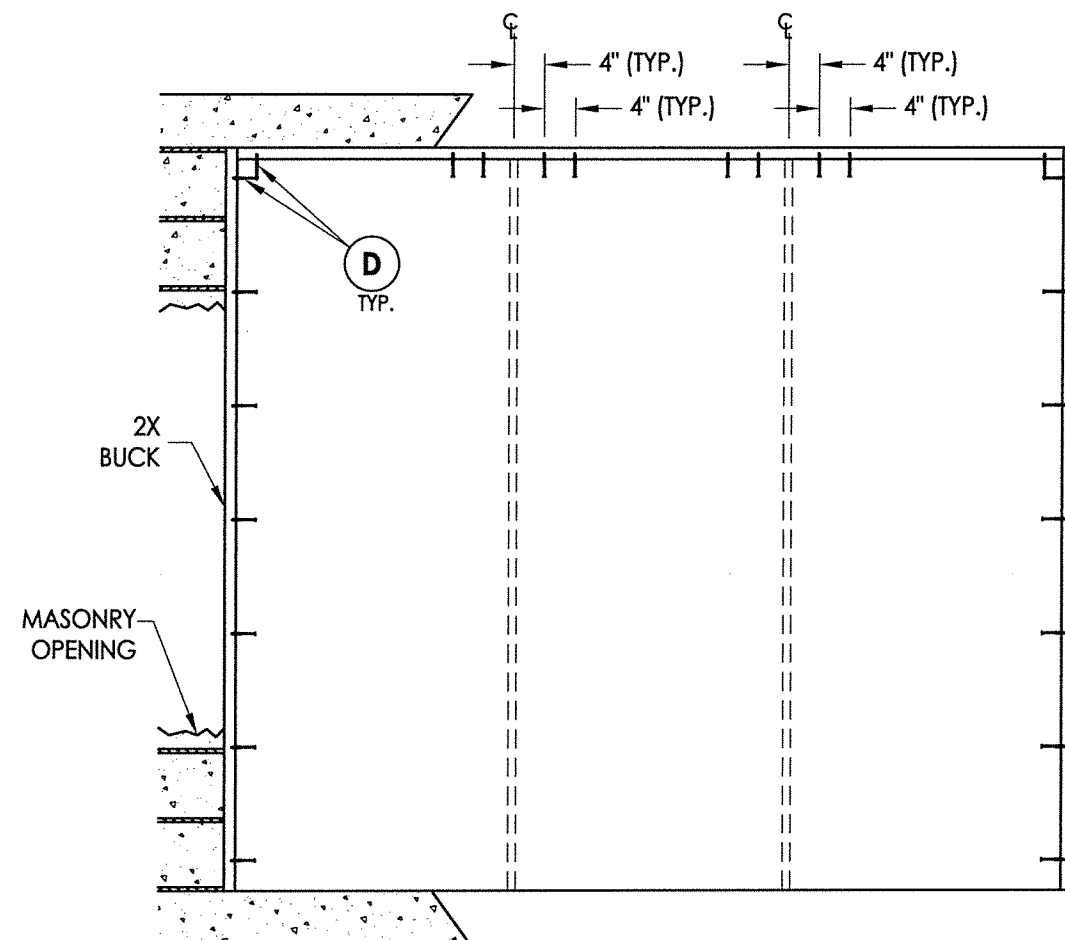
CHK. BY: LFS

DRAWING NO.:

FL-15450.

[illegible]

|                                                                                                                    |  |                                                               |  |
|--------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------|--|
|                                  |  | <b>STATE OF FLORIDA</b><br><b>PROFESSIONAL ENGINEER</b>       |  |
| No. 43409<br>★                                                                                                     |  | ★<br>★                                                        |  |
| <i>LFS</i><br>07/28/2020                                                                                           |  | 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 |  | <i>RW</i>                                                     |  |
| PRODUCT: DOERS                                                                                                     |  | PART OR ASSEMBLY: VERTICAL CROSS SECTIONS                     |  |
| REVISIONS                                                                                                          |  | NO. DATE                                                      |  |
| 3 7/28/20 UPDATE TO 7TH ED. (2020) FBC                                                                             |  | DAC                                                           |  |
| 2 01/12/18 ADD STEEL STUD ANCHORING                                                                                |  | JK                                                            |  |
| 1 10/05/17 UPDATE TO 6TH ED. (2017) FBC                                                                            |  | JK                                                            |  |
| DATE: 10/20/16                                                                                                     |  | SCALE: N.T.S.                                                 |  |
| DWG. BY: JK                                                                                                        |  | CHK. BY: LFS                                                  |  |
| DRAWING NO.: FL-15450.9                                                                                            |  | SHEET 4 OF 7                                                  |  |



## 2X BUCK ANCHORING

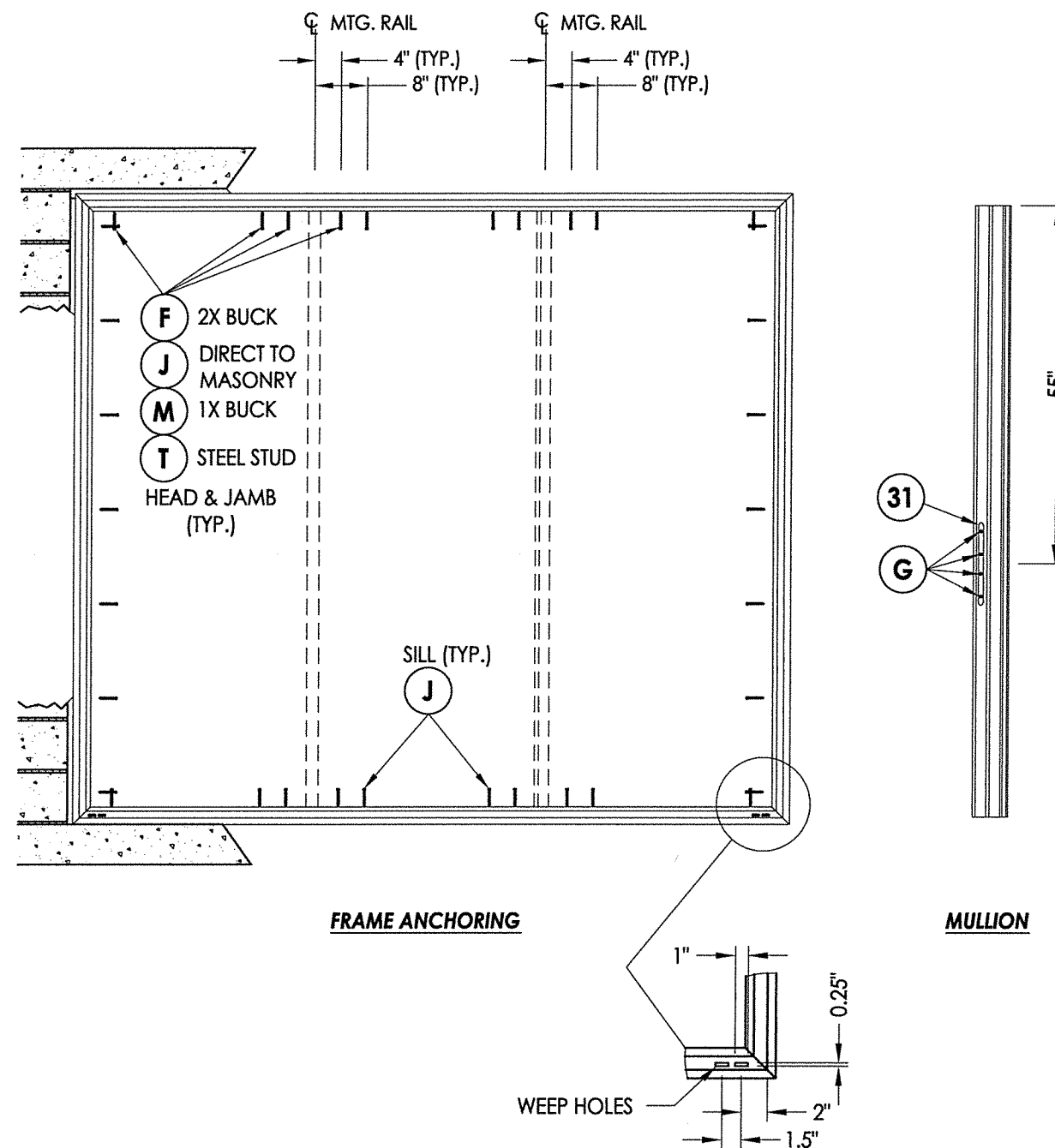
**CONCRETE ANCHOR NOTES:**

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. 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"                                |
| ELCO ULTRACON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |

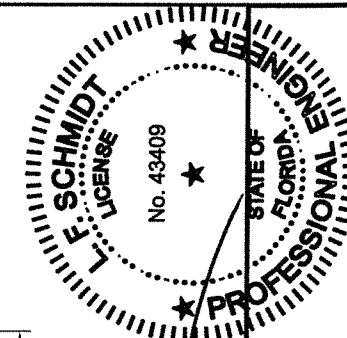
WOOD SCREW INSTALLATION NOTES:

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



## **FRAME ANCHORING**

**MULLION**



07/28/2020

01/28/2020  
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P.E. No. 43409

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

|          |       |
|----------|-------|
| PRODUCT: | DOERS |
|----------|-------|

**PART OR ASSEMBLY:**

|     |          |                          |     |     |           |
|-----|----------|--------------------------|-----|-----|-----------|
|     |          |                          |     |     |           |
|     |          |                          |     |     |           |
|     |          |                          |     |     |           |
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| NO. | DATE     |                          |     | BY  |           |
|     |          |                          |     |     | REVISIONS |

DATE: 10/20/16

SCALE: N.T.S.

DWG. BY: JK

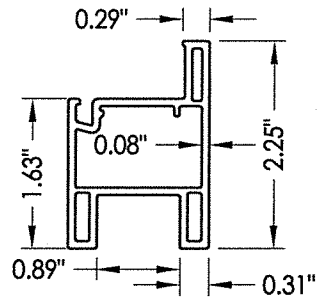
CHK. BY: LFS

DRAWING NO.:

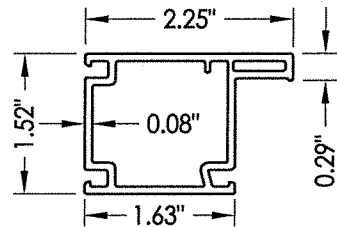
FL-15450.9

SHEET 5 OF 7

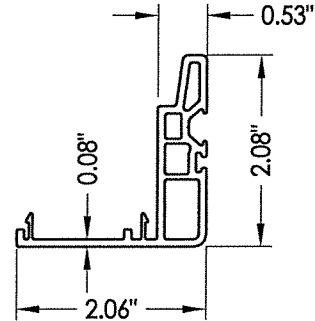
\\dc01\wbc\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-15450 Exterior Doors - Sliding Patio Doors\C - Drawings\FL-15450 (2020)\FL-15450.9.dwg



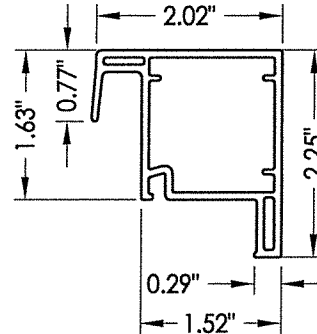
**7 TOP AND BOTTOM RAIL**  
R1553



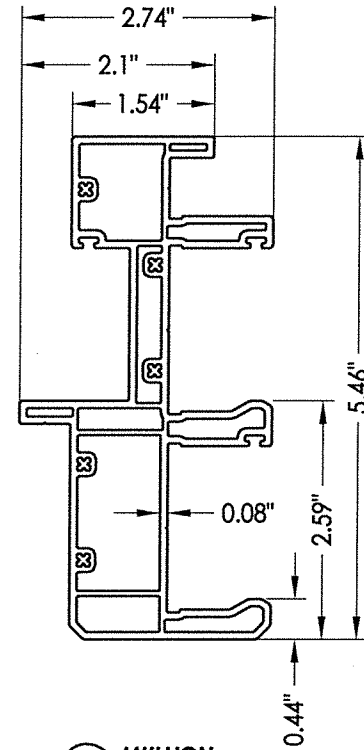
**9 STILE**  
R1552



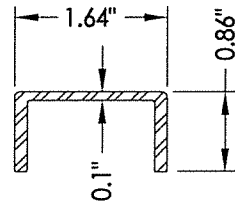
**5 SNAP-ON INTERLOCK**  
R1556



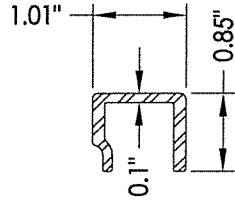
**10 MEETING RAIL**  
R1554



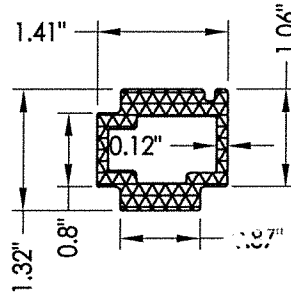
**21 MULLION**  
356-A61



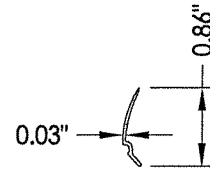
**22 REINFORCEMENT**  
356-A61-A



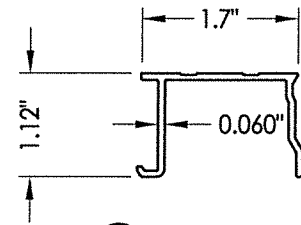
**23 REINFORCEMENT**  
356-A61-B



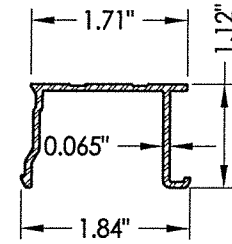
**39 REINFORCEMENT**  
356-A1552



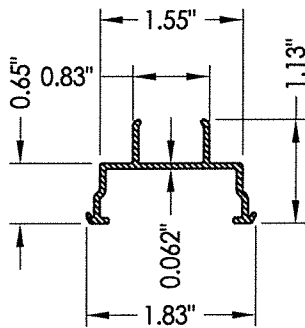
**3 GLAZING BEAD**  
R1994



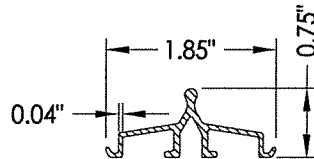
**4 FRAME CAP**  
8571-356-D58



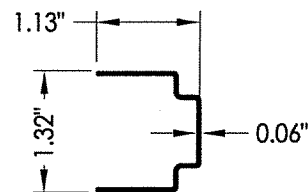
**6 SILL CAP**  
356-A51-52-COV



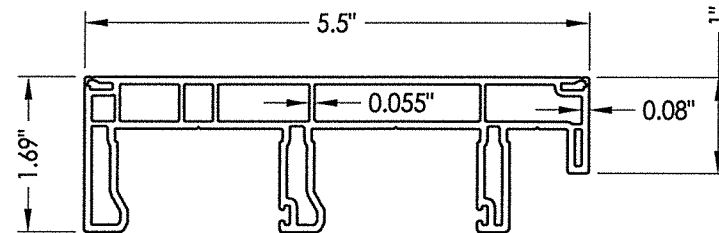
**11 FIXED TRACK**  
356-A65



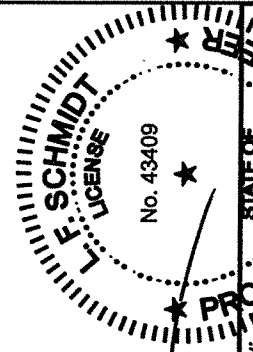
**12 ROLLER TRACK**  
356-A51-52-TRK



**18 LOCK STILE STIFFENER**  
356-S1552-LR



**1 FRAME**  
8572-356-D60



*E. Schmidt*

07/28/2020

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

PRODUCT:  
DOERS

DATE: 10/20/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15450.9

SHEET 6 OF 7

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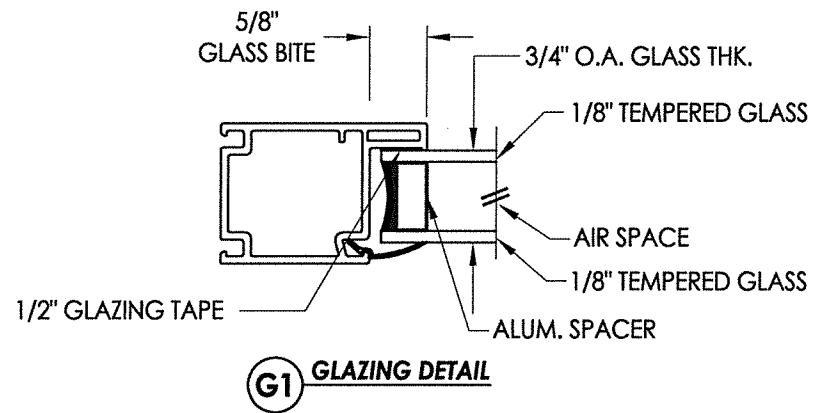
PART OR ASSEMBLY:  
DOERS

DATE: 10/20/16

SCALE: N.T.S.

| BILL OF MATERIALS |                                                                                                |           |
|-------------------|------------------------------------------------------------------------------------------------|-----------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL  |
| A                 | 1X BUCK SG >= 0.42                                                                             | WOOD      |
| B                 | 2X BUCK SG >= 0.42                                                                             | WOOD      |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -         |
| D                 | 1/4" X 2-3/4" PFH ELCO 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                 | #10 X 2" PPH SMS (1-3/16" MIN. EMBEDMENT)                                                      | STEEL     |
| G                 | #8 X 1" PFH SMS                                                                                | STEEL     |
| J                 | 1/4" X 2-1/4" PFH ITW CONCRETE SCREW                                                           | STEEL     |
| M                 | 1/4" X 3-1/4" PFH ITW CONCRETE SCREW                                                           | STEEL     |
| T                 | #10-16 PH SELF-DRILLING SMS                                                                    | STEEL     |
| X                 | STEEL STUD Min. Thk 0.054" (ASTM A653 GRADE 50 Fy=50 ksi min., Fu=65 ksi min.)                 | STEEL     |
| 1                 | FRAME*                                                                                         | RIGID PVC |
| 3                 | GLAZING BEAD*                                                                                  | RIGID PVC |
| 4                 | FRAME CAP*                                                                                     | RIGID PVC |
| 5                 | SNAP-ON MEETING RAIL*                                                                          | RIGID PVC |
| 6                 | SILL CAP (6063-T5 ALUM)                                                                        | ALUM      |
| 7                 | SASH TOP AND BOTTOM RAIL*                                                                      | RIGID PVC |
| 9                 | SASH STILE*                                                                                    | RIGID PVC |
| 10                | MEETING RAIL*                                                                                  | RIGID PVC |
| 11                | FIXED TRACK (6065-T5 ALUM)                                                                     | ALUM      |
| 12                | SILL ROLLER TRACK (6063-T5 ALUM)                                                               | ALUM      |
| 15                | ANTI-LIFT-OUT BLOCKS (6063-T5)                                                                 | ALUM      |
| 18                | LOCK STILE STIFFENER                                                                           | ALUM      |
| 21                | MULLION*                                                                                       | PVC       |
| 22                | MULLION REINFORCEMENT (6063-T5)                                                                | ALUM      |
| 23                | MULLION REINFORCEMENT (6063-T5)                                                                | ALUM      |
| 24                | #8 X 1-1/4" PPH SMS                                                                            | STEEL     |
| 25                | ROLLER ASSM.                                                                                   | STEEL     |
| 30                | LOCK AND HANDLE                                                                                | -         |
| 31                | STRIKE PLATE                                                                                   | -         |
| 39                | REINFORCEMENT (6063 T6)                                                                        | ALUM      |

\* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATIONS PROGRAMS FOR RIGID PVC EXTRUSIONS".



|                                                                                    |  |                                                                                                                    |  |
|------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|
|  |  | <b>STATE OF FLORIDA</b><br><b>PROFESSIONAL ENGINEER</b>                                                            |  |
| No. 43409<br>★                                                                     |  | ★                                                                                                                  |  |
| <i>Che</i>                                                                         |  | 07/28/2020                                                                                                         |  |
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 4-3409                     |  | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |
| <b>PRODUCT:</b>                                                                    |  | DOERS                                                                                                              |  |
| <b>PART OR ASSEMBLY:</b>                                                           |  | BILL OF MATERIALS AND<br>GLAZING DETAIL                                                                            |  |
| DATE: 10/20/16                                                                     |  | REVISIONS                                                                                                          |  |
| SCALE: N.T.S.                                                                      |  | DWG. BY: JK                                                                                                        |  |
| CHK. BY: LFS                                                                       |  | DRAWING NO.: FL-15450.9                                                                                            |  |
| SHEET 7 OF 7                                                                       |  | NO. DATE                                                                                                           |  |
| 3 7/28/20 UPDATE TO 7TH ED. (2020) FBC DAC                                         |  | 2 01/12/18 ADD STEEL STUD ANCHORING JK                                                                             |  |
| 1 10/05/17 UPDATE TO 6TH ED. (2017) FBC JK                                         |  | BY                                                                                                                 |  |