

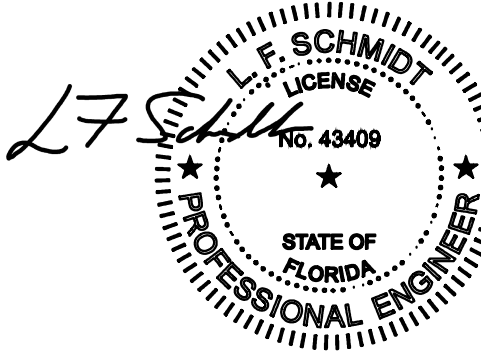


**R-301/401**  
**SLIDING PATIO DOOR**  
**"NON-IMPACT"**

## GENERAL NOTES

1. This product anchoring drawing is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ). See the Certification Agency Certificate for sizes, specifications and ratings.
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.

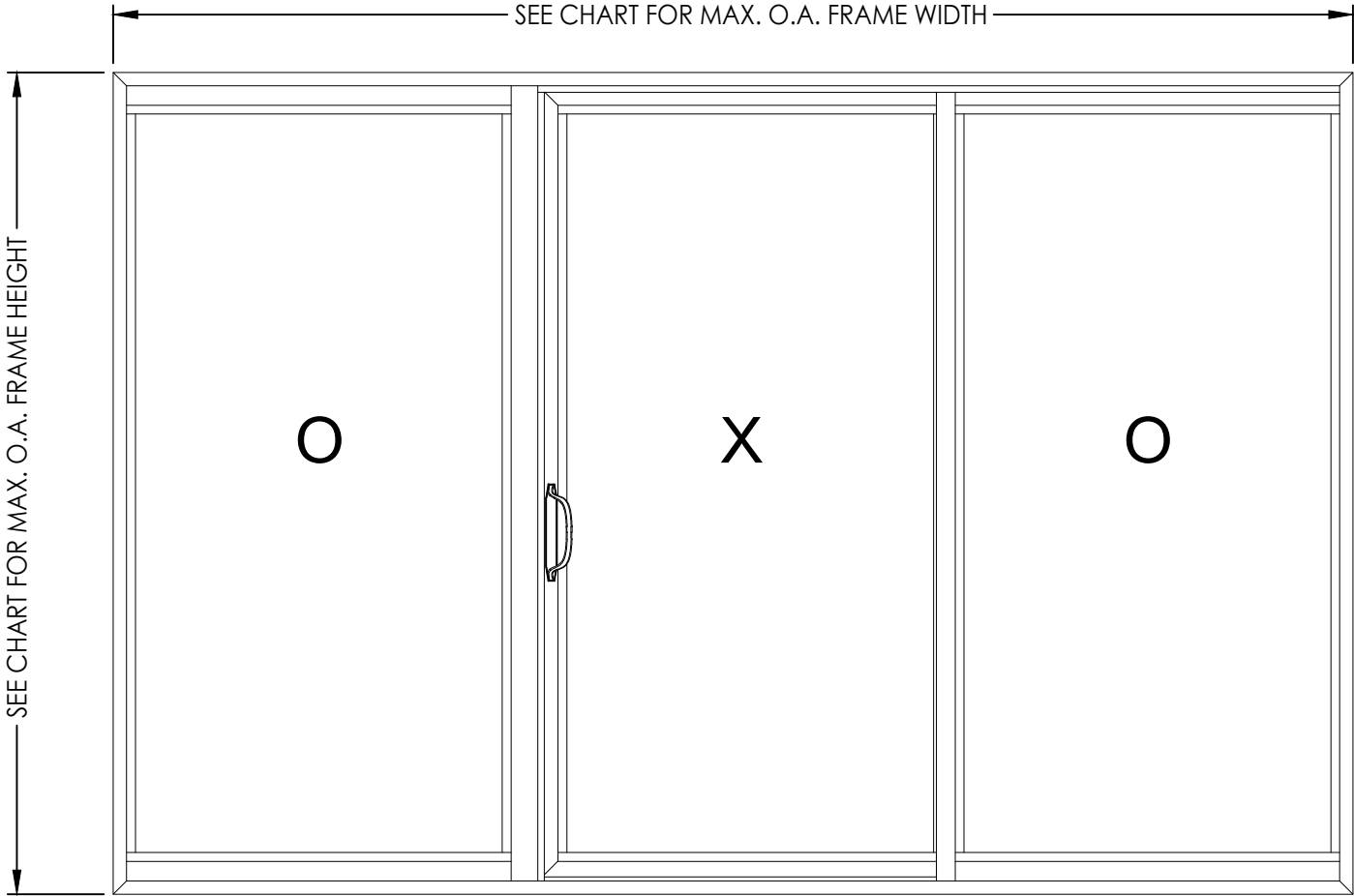
| TABLE OF CONTENTS |                                                        |
|-------------------|--------------------------------------------------------|
| SHEET#            | DESCRIPTION                                            |
| 1                 | Typical elevations, design pressures and general notes |
| 2                 | Horizontal cross sections                              |
| 3                 | Vertical cross sections                                |
| 4                 | Buck anchoring                                         |
| 5                 | Frame anchoring                                        |
| 6                 | Bill of materials, glazing details & components        |



Digitally signed by  
Lyndon F Schmidt  
Date: 2023.09.14  
09:34:12 -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



| MAX.<br>FRAME<br>DIMENSION | MAX.<br>D.L.O.<br>DIMENSION | GLASS<br>TYPE | DESIGN PRESSURE (PSF) |          | SILL<br>TOWER<br>RISER |
|----------------------------|-----------------------------|---------------|-----------------------|----------|------------------------|
|                            |                             |               | POSITIVE              | NEGATIVE |                        |
| 144.0" X 81.0"             | 44.0" x 73.7"               | G1            | +45.0                 | -45.0    | NO                     |
| 144.0" X 95.5"             | 44.0" x 88.2"               | G1            | +25.0                 | -25.0    | NO                     |
| 144.0" X 95.5"             | 44.0" x 88.2"               | G1            | +40.0                 | -40.0    | NO                     |
| 144.0" X 95.5"             | 44.0" x 88.2"               | G3            | +45.0                 | -45.0    | NO                     |
| 144.0" X 95.5"             | 43.7" x 88.2"               | G3            | +50.0                 | -50.0    | YES                    |

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

**BUILDING CONSULTANTS, INC.**  
P.O. Box 230, Valrico, FL 3  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT: NOVATECH  
PATIO DOOR

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

[illegible]

DATE: 7/12/18

SCALE: *N.T.S.*

DWG. BY: JK

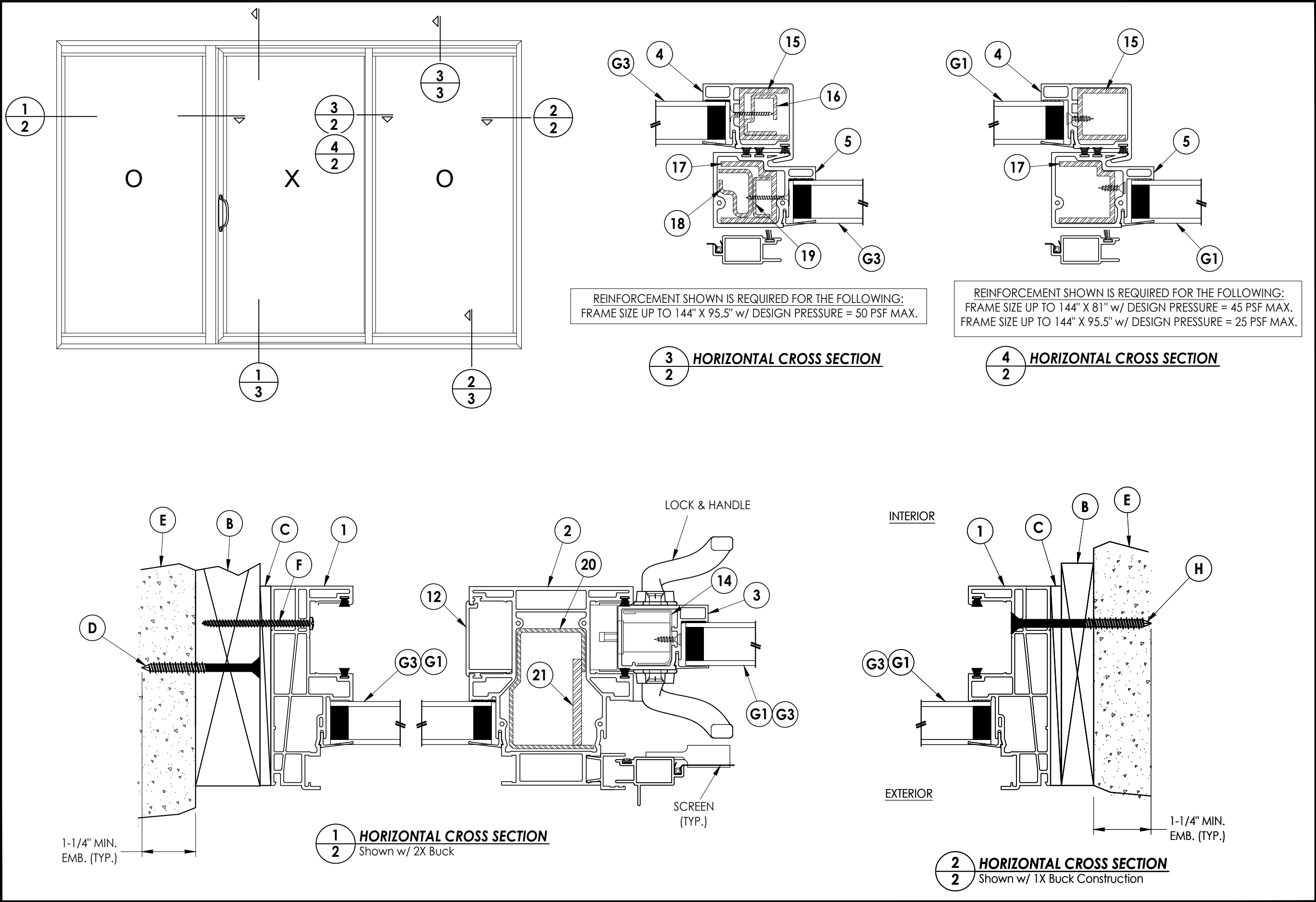
CHK. BY: LFS

DRAWING NO.:

FL-27628.8

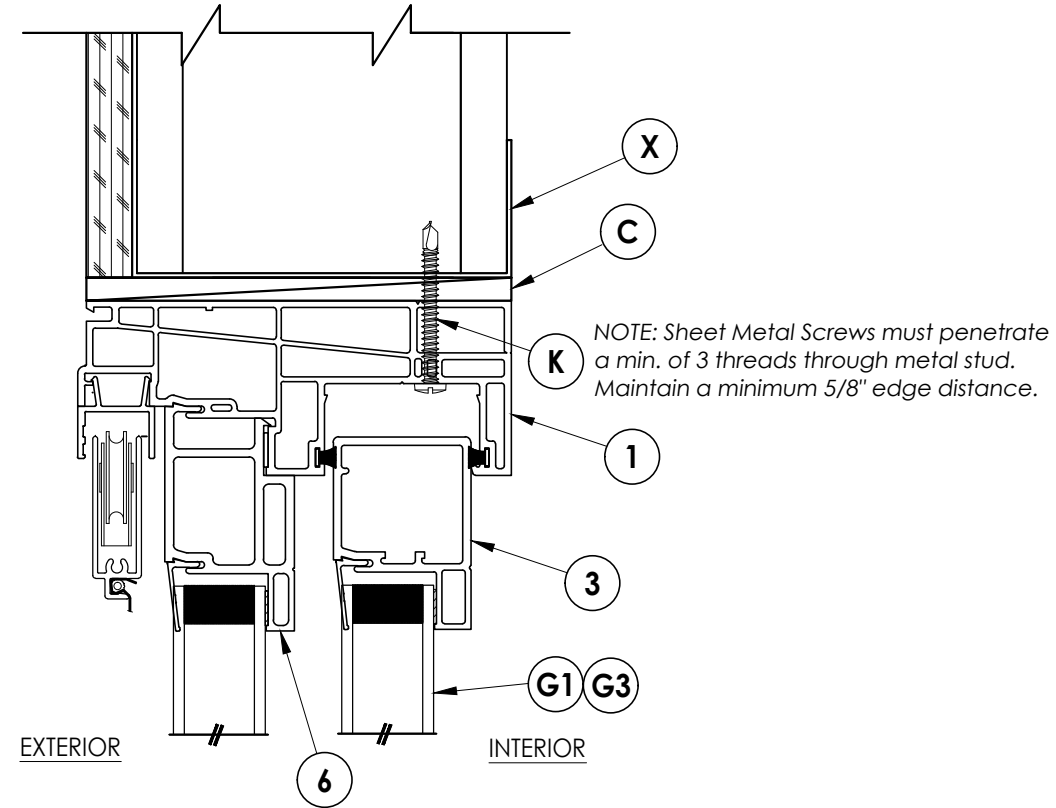
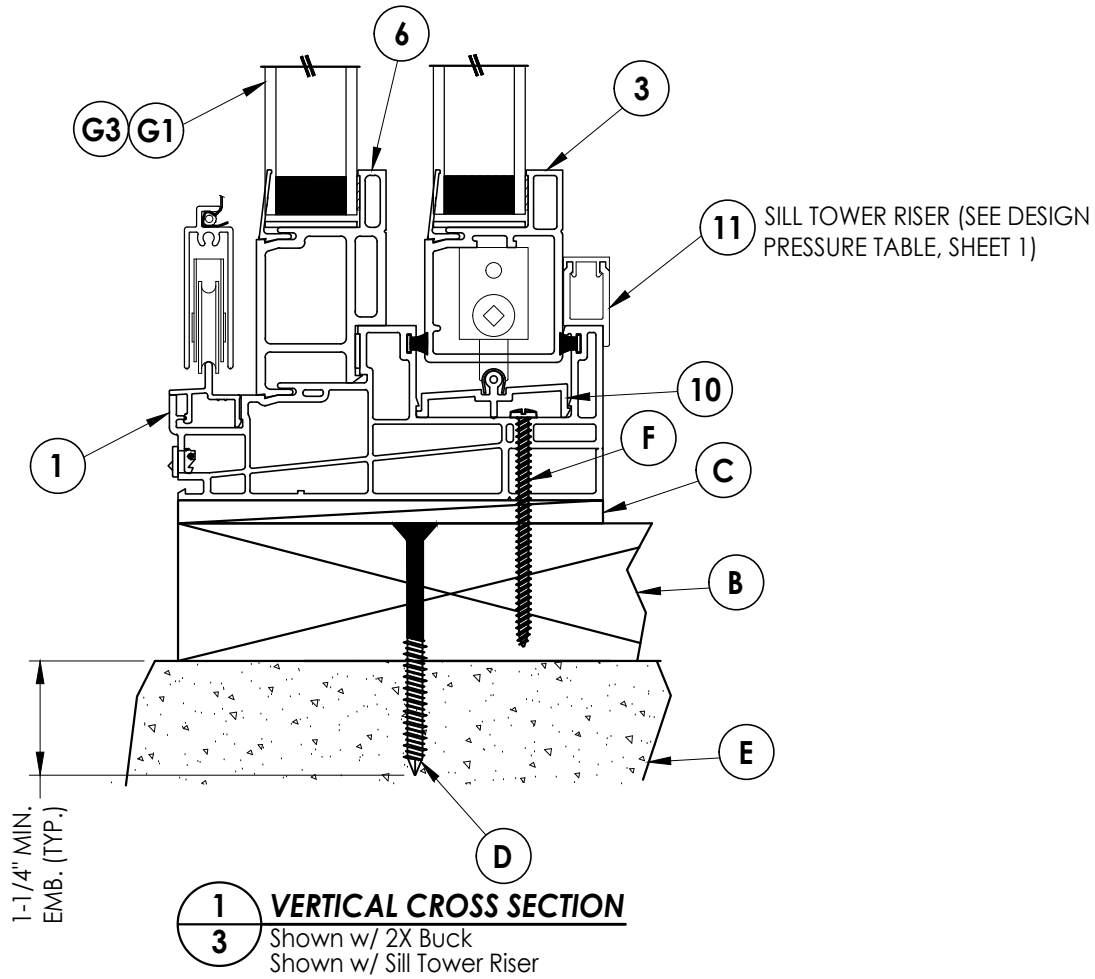
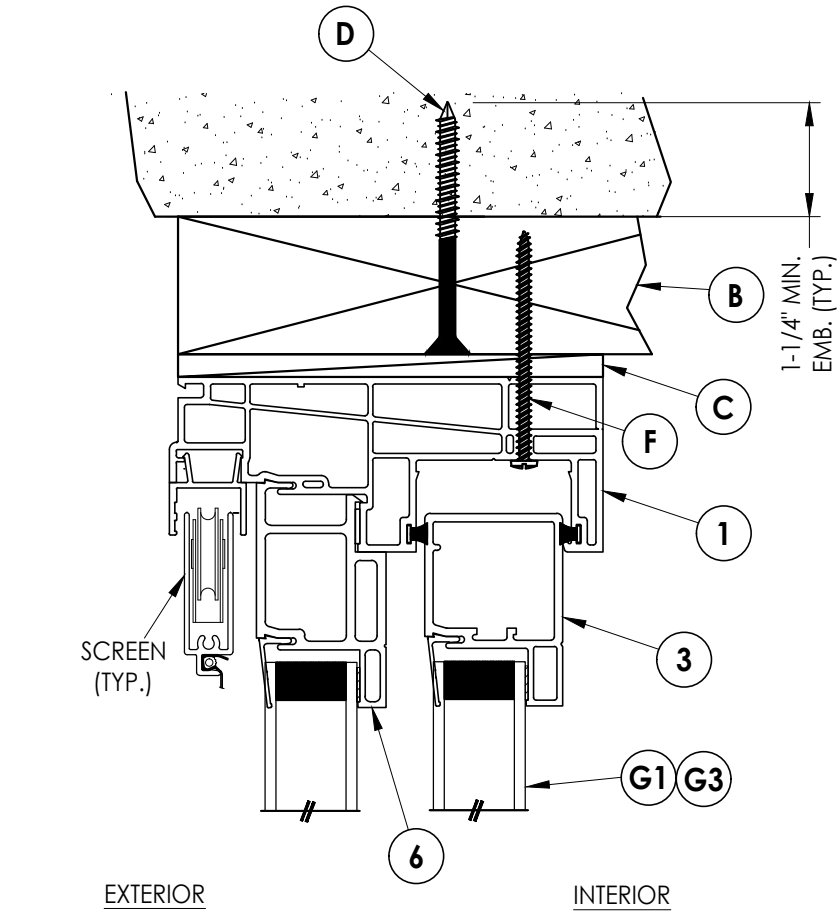
SHEET 1 OF 6

Z:\2023 FBC Drawings\Novatech Patio Doors\FL-27628 R3\FL-27628.8.dwg

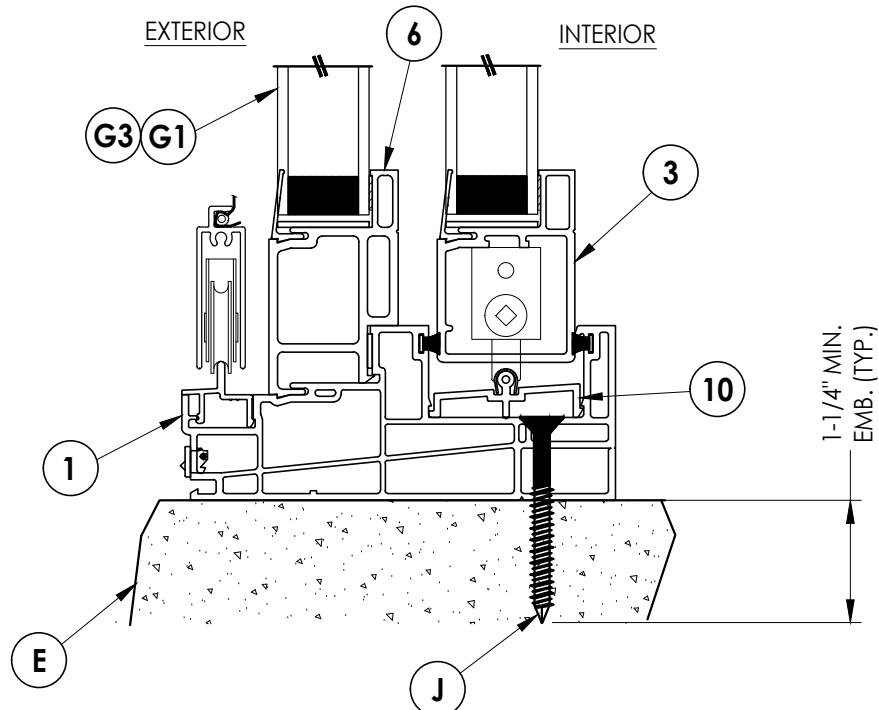


|                                                               |  |                                                                                                                    |      |
|---------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|------|
| 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>NOVATECH<br>PATIO DOOR                            |  | PART OR ASSEMBLY:<br>HORIZONTAL<br>CROSS SECTIONS                                                                  |      |
|                                                               |  | LFS                                                                                                                | BY   |
|                                                               |  | LFS                                                                                                                | BY   |
|                                                               |  | NO                                                                                                                 | DATE |
|                                                               |  | REVISIONS                                                                                                          |      |
| DATE: 7/12/18                                                 |  |                                                                                                                    |      |
| SCALE: N.T.S.                                                 |  |                                                                                                                    |      |
| DWG. BY: JK                                                   |  |                                                                                                                    |      |
| CHK. BY: LFS                                                  |  |                                                                                                                    |      |
| DRAWING NO.: FL-27628.8                                       |  |                                                                                                                    |      |
| SHEET 2 OF 6                                                  |  |                                                                                                                    |      |

Z:\2023 FBC Drawings\Novatech Patio Doors\FL-27628 R3\FL-27628.8.dwg



**3 VERTICAL CROSS SECTION**  
Shown w/ Steel Stud Framing



**2 VERTICAL CROSS SECTION**  
Shown 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:  
NOVATECH  
PATIO DOOR

PART OR ASSEMBLY:  
VERTICAL  
CROSS SECTIONS

| NO. | DATE     | REVISIONS                    |
|-----|----------|------------------------------|
| 2   | 9/14/23  | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 10/01/20 | UPDATE TO 7TH ED. (2020) FBC |
|     |          |                              |

DATE: 7/12/18

SCALE: N.T.S.

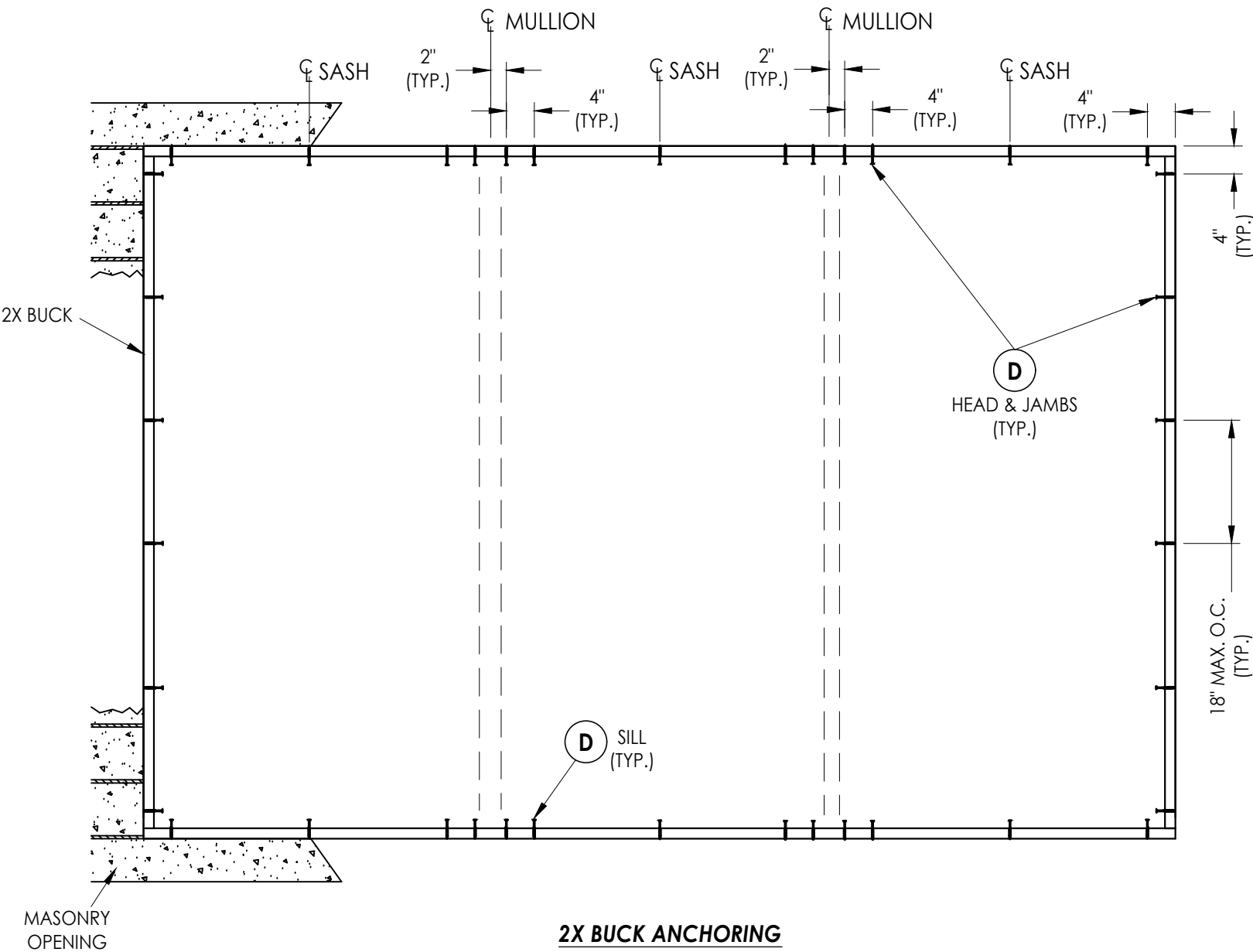
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-27628.8

SHEET 3 OF 6



## 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"                                |
| DeWALT 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.

[illegible]

DATE: 7/12/18

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-27628.8

SHEET 4 OF 6

© 2018 R.W. BUILDING CONSULTANTS INC.

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:**

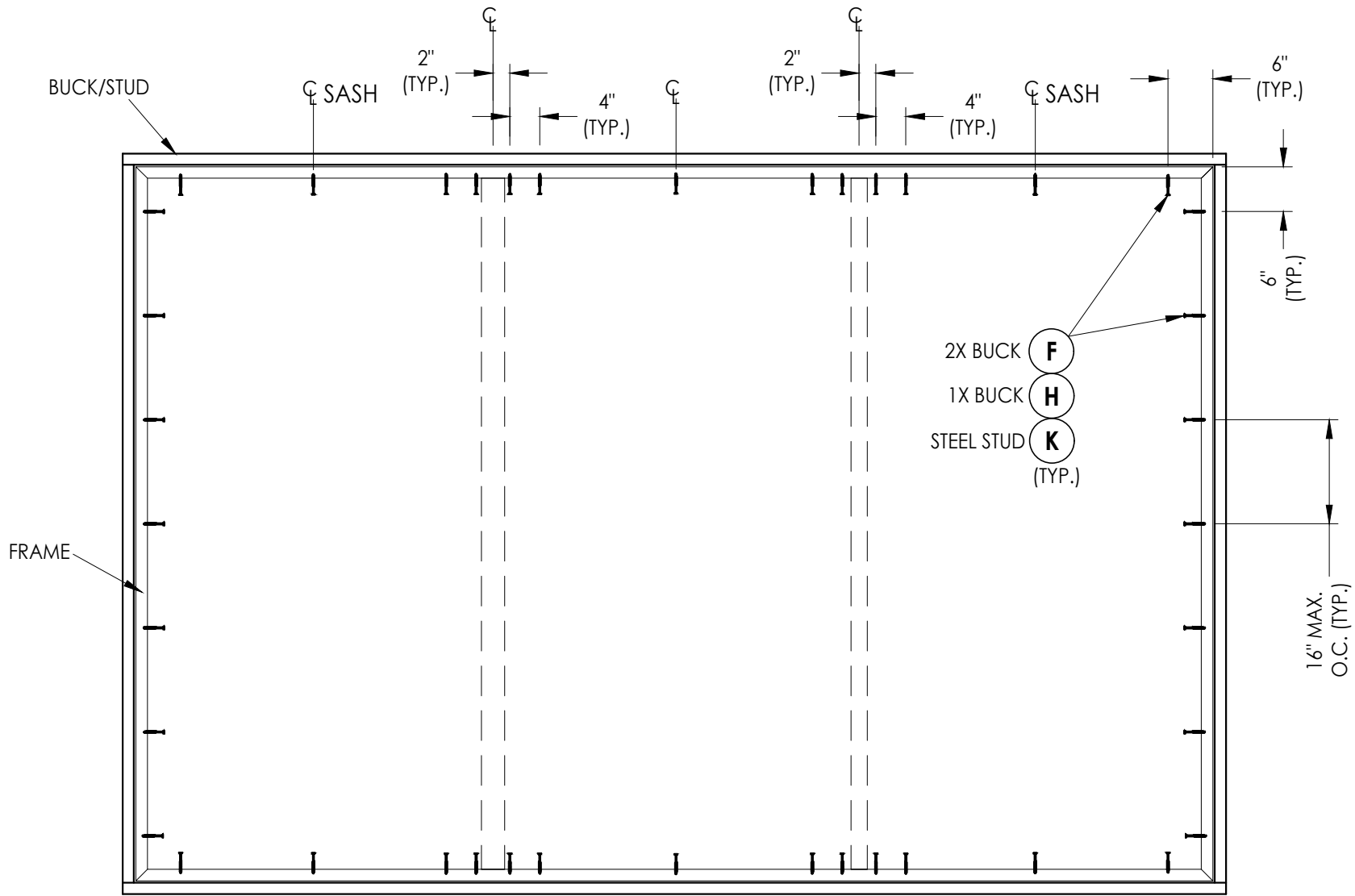
NOVATECH  
PATIO DOOR

**ASSEMBLY:**

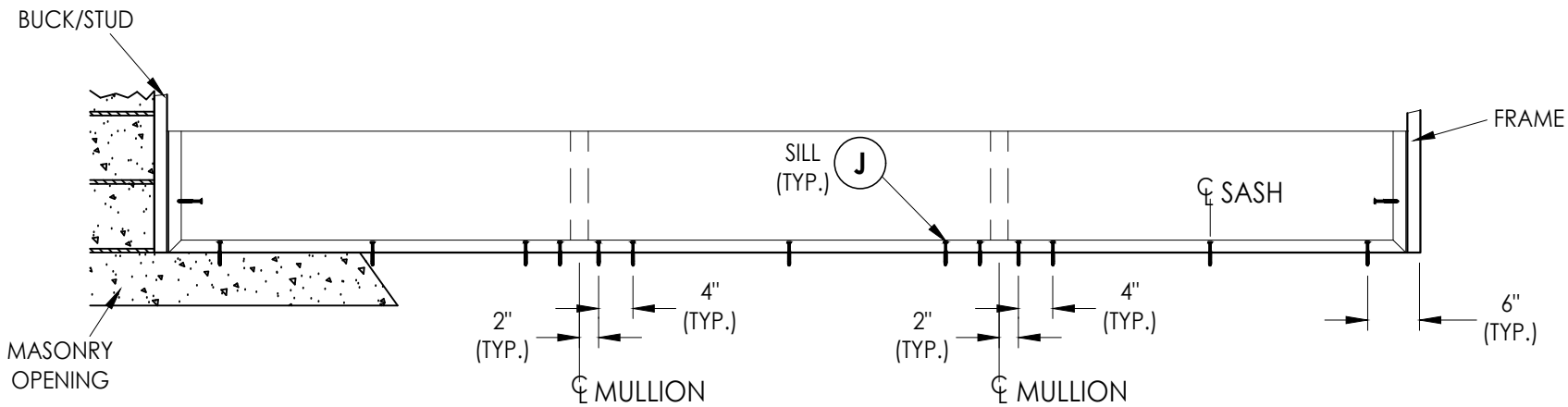
## BUCK ANCHORING

## REVISIONS

Z:\2023 FBC Drawings\Novatech Patio Doors\FL-27628 R3\FL-27628.8.dwg



FRAME ANCHORING



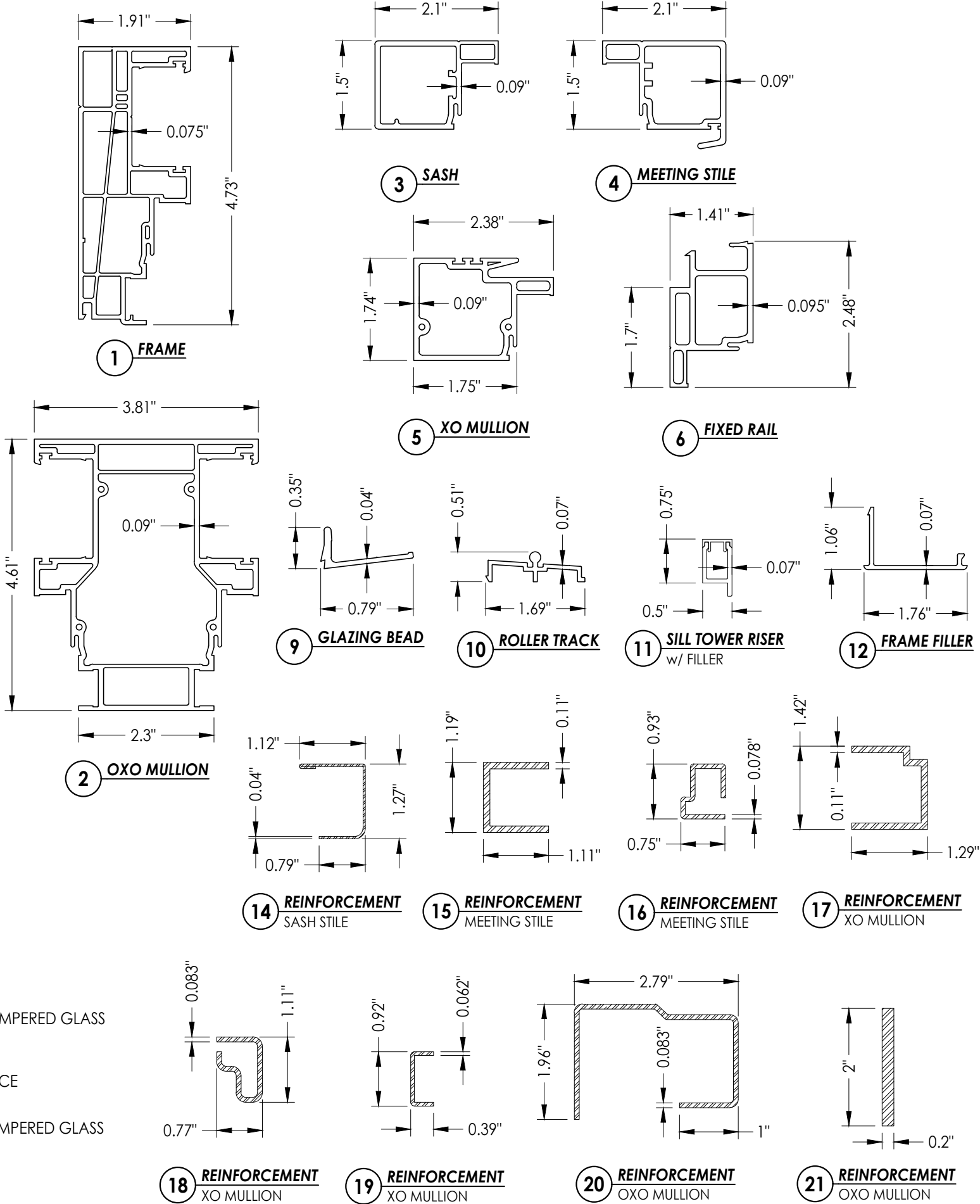
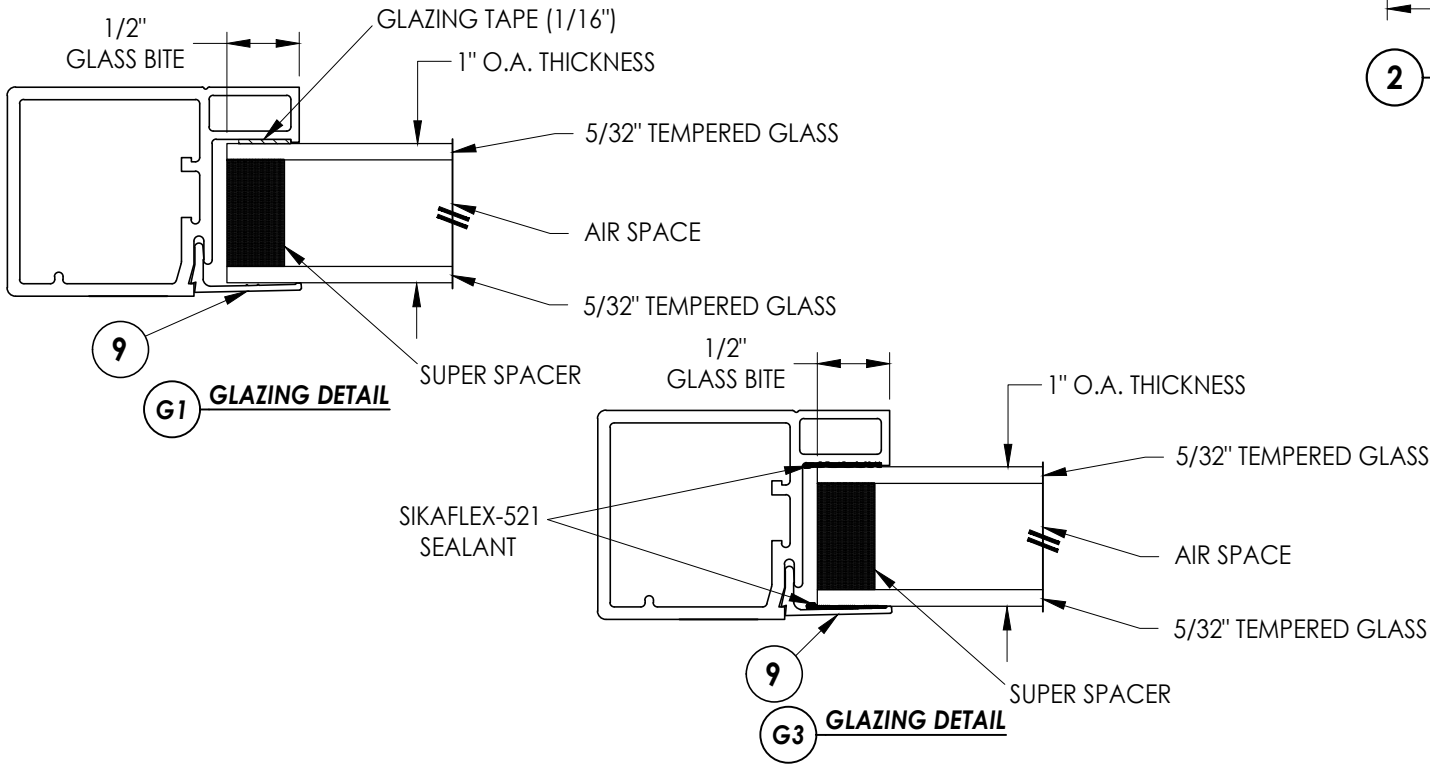
ALTERNATE FRAME ANCHORING  
DIRECT TO MASONRY @ SILL

|                                                               |  |                                      |  |                                                                                                                    |      |   |          |
|---------------------------------------------------------------|--|--------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 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>NOVATECH<br>PATIO DOOR                            |  | PART OR ASSEMBLY:<br>FRAME ANCHORING |  |                                                                                                                    |      |   |          |
|                                                               |  |                                      |  | LFS                                                                                                                | FBC  | 2 | 9/14/23  |
|                                                               |  |                                      |  | LFS                                                                                                                | FBC  | 1 | 10/01/20 |
|                                                               |  |                                      |  | NO.                                                                                                                | DATE |   |          |
|                                                               |  |                                      |  | REVISIONS                                                                                                          |      |   |          |
| DATE: 7/12/18                                                 |  |                                      |  |                                                                                                                    |      |   |          |
| SCALE: N.T.S.                                                 |  |                                      |  |                                                                                                                    |      |   |          |
| DWG. BY: JK                                                   |  |                                      |  |                                                                                                                    |      |   |          |
| CHK. BY: LFS                                                  |  |                                      |  |                                                                                                                    |      |   |          |
| DRAWING NO.: FL-27628.8                                       |  |                                      |  |                                                                                                                    |      |   |          |
| SHEET 5 OF 6                                                  |  |                                      |  |                                                                                                                    |      |   |          |

Z:\2023 FBC Drawings\Novatech Patio Doors\FL-27628 R3\FL-27628.8.dwg

| 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 DeWALT OR ITW CONCRETE SCREW                                                | STEEL    |
| E                 | MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE |
| F                 | #8 X 2-1/2" PPH SMS (1-1/4" MIN. EMBEDMENT)                                                   | STEEL    |
| G                 | 1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW                                                | STEEL    |
| J                 | 1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW                                                | STEEL    |
| K                 | #10 PPH SELF-DRILLING SMS                                                                     | STEEL    |
| X                 | STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 ksi min., Fu=45 ksi min.)                 | STEEL    |
| 1                 | FRAME*                                                                                        | PVC      |
| 2                 | OXO MULLION*                                                                                  | PVC      |
| 3                 | SASH*                                                                                         | PVC      |
| 4                 | MEETING STILE*                                                                                | PVC      |
| 5                 | XO MULLION*                                                                                   | PVC      |
| 6                 | FIXED RAIL*                                                                                   | PVC      |
| 9                 | GLAZING BEAD*                                                                                 | PVC      |
| 10                | ROLLER ASSM.                                                                                  | PVC      |
| 11                | SILL TOWER RISER*                                                                             | PVC      |
| 12                | FRAME FILLER*                                                                                 | PVC      |
| 14                | REINFORCEMENT (SASH STILE)                                                                    | STEEL    |
| 15                | REINFORCEMENT (MEETING STILE)                                                                 | STEEL    |
| 16                | REINFORCEMENT (MEETING STILE)                                                                 | STEEL    |
| 17                | REINFORCEMENT (XO MULLION)                                                                    | STEEL    |
| 18                | REINFORCEMENT (XO MULLION)                                                                    | STEEL    |
| 19                | REINFORCEMENT (XO MULLION)                                                                    | STEEL    |
| 20                | REINFORCEMENT (OXO MULLION)                                                                   | STEEL    |
| 21                | REINFORCEMENT (OXO MULLION)                                                                   | STEEL    |

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



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:          | NOVATECH PATIO DOOR                             |
| PART OR ASSEMBLY: | BILL OF MATERIALS, GLAZING DETAILS & COMPONENTS |

| NO. | DATE     | REVISIONS                    |
|-----|----------|------------------------------|
| 1   | 9/14/23  | UPDATE TO 8TH ED. (2023) FBC |
| 2   | 10/01/20 | UPDATE TO 7TH ED. (2020) FBC |
| 3   |          |                              |
| 4   |          |                              |
| 5   |          |                              |
| 6   |          |                              |
| 7   |          |                              |
| 8   |          |                              |
| 9   |          |                              |
| 10  |          |                              |
| 11  |          |                              |
| 12  |          |                              |
| 13  |          |                              |
| 14  |          |                              |
| 15  |          |                              |
| 16  |          |                              |
| 17  |          |                              |
| 18  |          |                              |
| 19  |          |                              |
| 20  |          |                              |
| 21  |          |                              |

DATE: 7/12/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-27628.8

SHEET 6 OF 6