



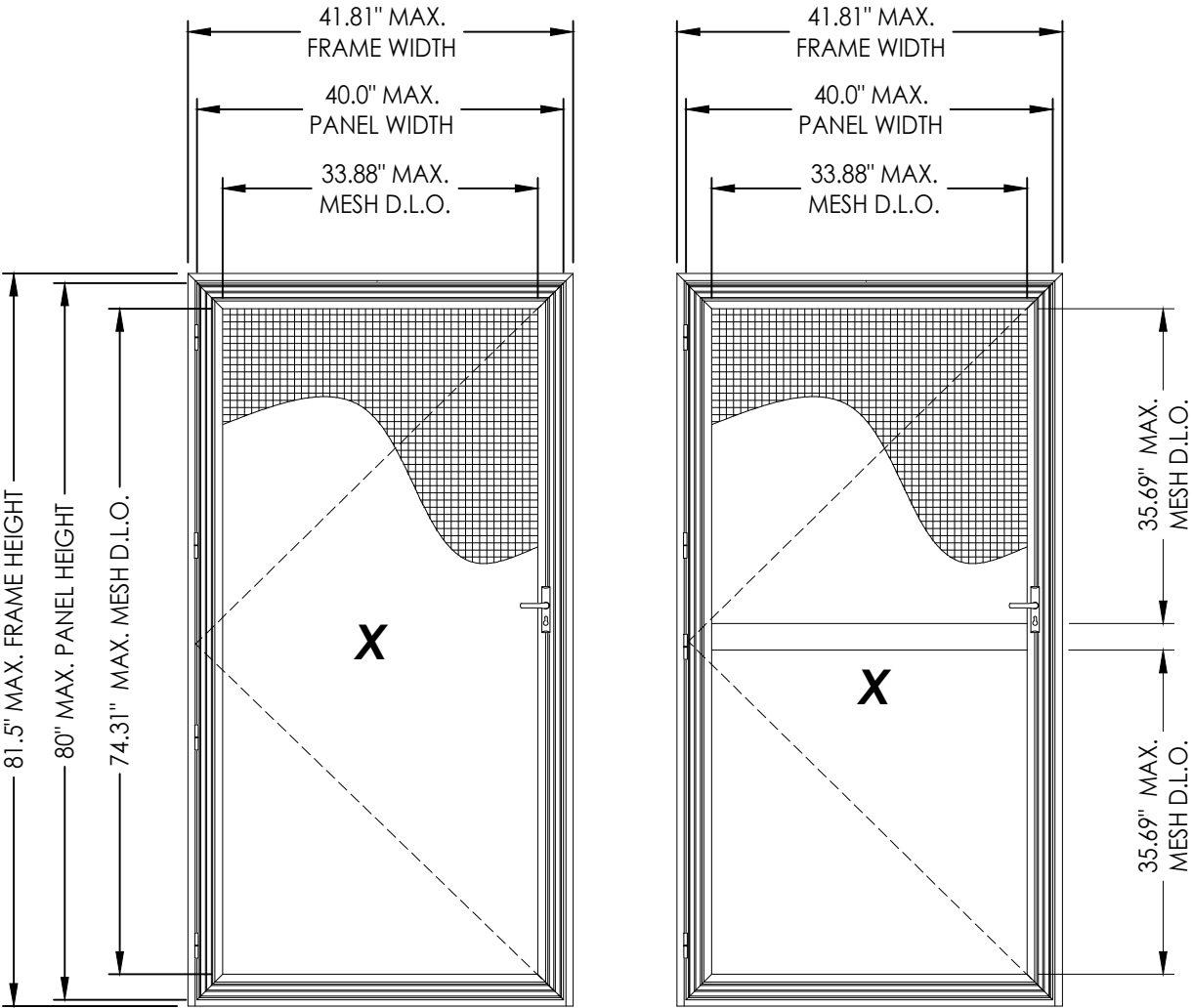
Suite 1-3  
3020 Reynolds Rd.  
Lakeland, FL 33840-2440

HINGED DOOR  
HURRICANE SCREEN  
"IMPACT"

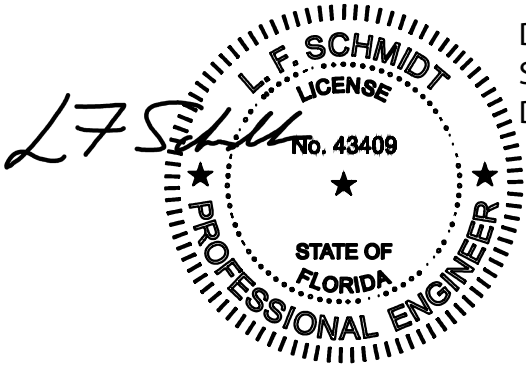
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the HVHZ, this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas 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 E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. All steel shall be protected as specified in Section 2222.6 of the FBC.

| TABLE OF CONTENTS |                                                     |
|-------------------|-----------------------------------------------------|
| SHEET #           | DESCRIPTION                                         |
| 1                 | Typical Elevation, Design Pressures & General Notes |
| 2                 | Screen Door Panel Details                           |
| 3                 | Horizontal & Vertical Cross Sections                |
| 4                 | Frame Anchoring                                     |
| 5                 | Bill of Materials and Components                    |



| MAX OVERALL<br>FLANGE<br>DIMENSION | MAX OVERALL<br>PANEL<br>DIMENSION | MAX MESH<br>D.L.O.<br>DIMENSION | DESIGN PRESSURE (PSF) |          |
|------------------------------------|-----------------------------------|---------------------------------|-----------------------|----------|
|                                    |                                   |                                 | POSITIVE              | NEGATIVE |
| 41.81" X 81.5"                     | 40.0" X 80.0"                     | 34.31" X 74.31"                 | +50.0                 | -50.0    |



Digitally signed by Lyndon F Schmidt  
Date: 2023.09.18 14:00:52 -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

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

HURRICANE SCREEN DOOR

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

2

9/18/23

UPDATE TO 8TH ED. (2023) FBC

LFS

1

8/13/20

UPDATE TO 7th ED. (2020) FBC

DAC

NO.

DATE

BY

REVISIONS

DATE: 4/11/19

SCALE: N.T.S.

DWG. BY: LFS

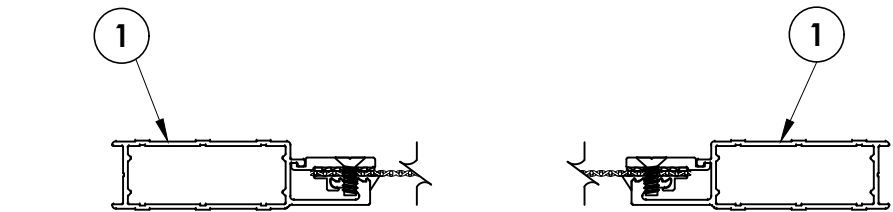
CHK. BY: RW

DRAWING NO.: FL-29455.4

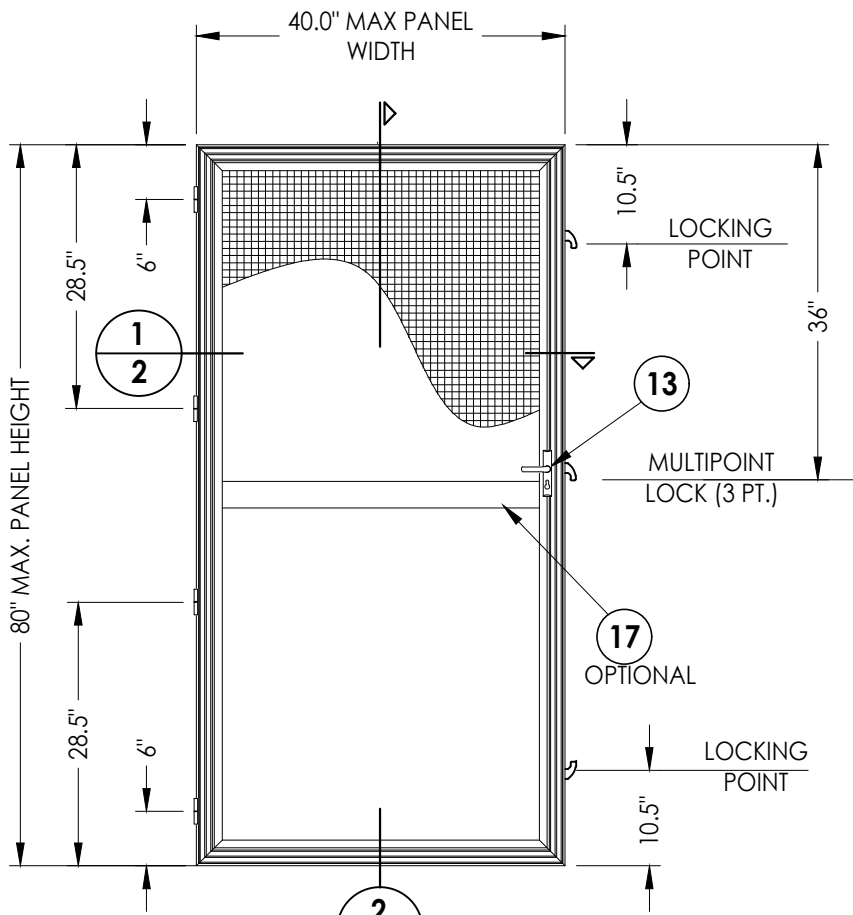
SHEET 1 OF 5

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

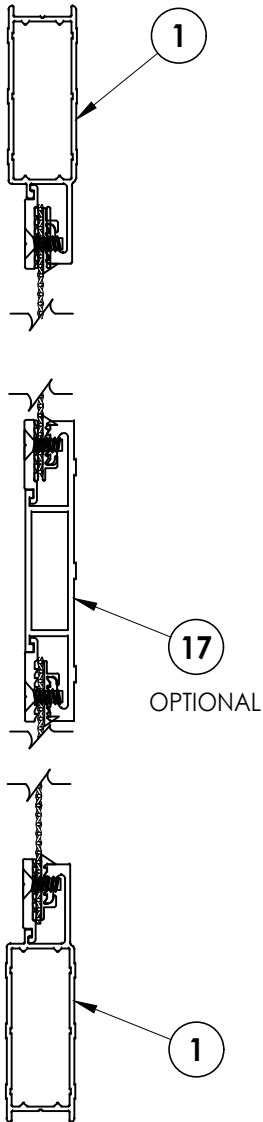
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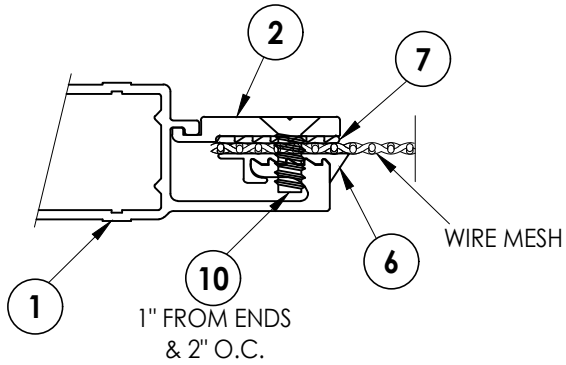
1  
2 **HORIZONTAL CROSS SECTION**



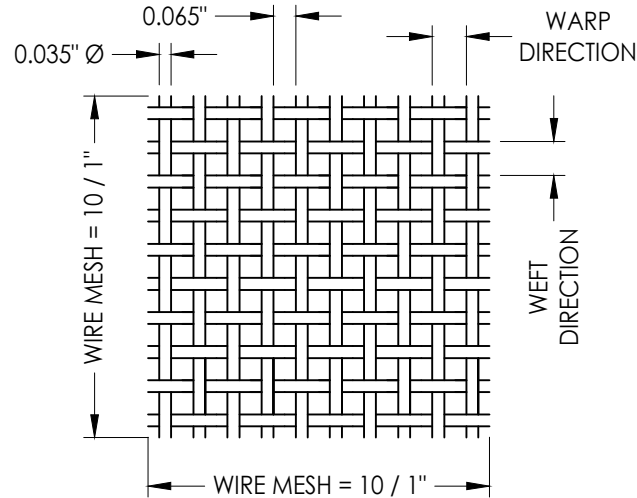
40 **SCREEN DOOR PANEL**



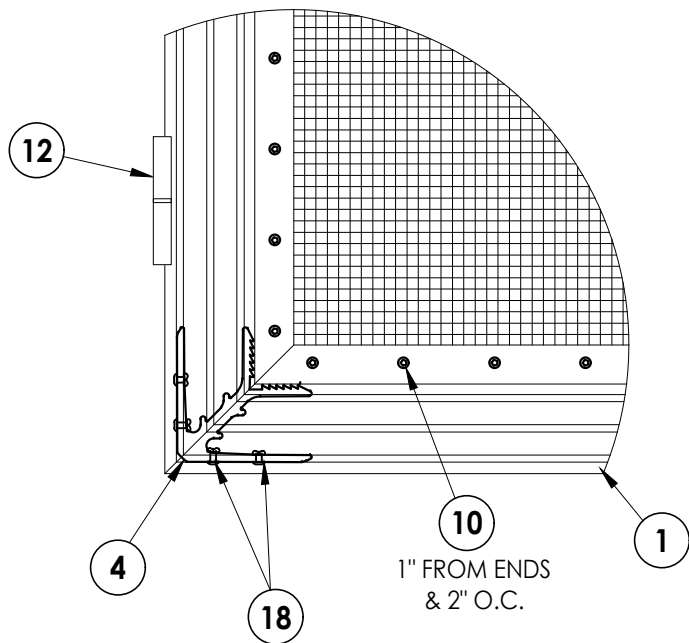
2  
2 **VERTICAL CROSS SECTION**



**SCREEN CAPTURE DETAIL**



**WIRE MESH (10 x 10)**  
304 Stainless Steel  
Wire Ø = 0.035"  
Open Area = 42.25%



**SCREEN DOOR CORNER DETAIL**

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

| PRODUCT:                  |  |
|---------------------------|--|
| HURRICANE SCREEN DOOR     |  |
| PART OR ASSEMBLY:         |  |
| SCREEN DOOR PANEL DETAILS |  |

| NO. | DATE    | REVISIONS                |         |
|-----|---------|--------------------------|---------|
|     |         | BY                       | DAC     |
| 2   | 9/18/23 | UPDATE TO 8TH ED. (2023) | FBC LFS |
| 1   | 8/13/20 | UPDATE TO 7th ED. (2020) | FBC DAC |

DATE: 4/11/19

SCALE: N.T.S.

DWG. BY: LFS

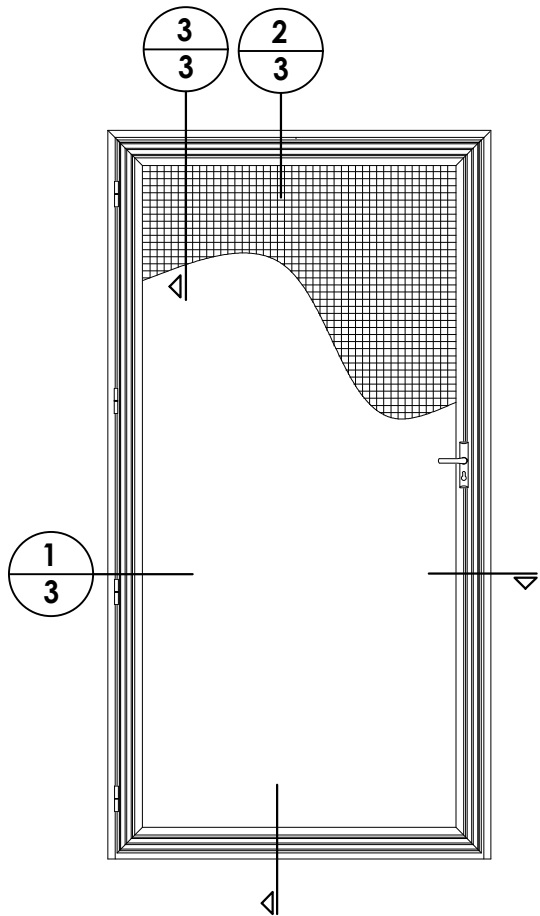
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DRAWING NO.:

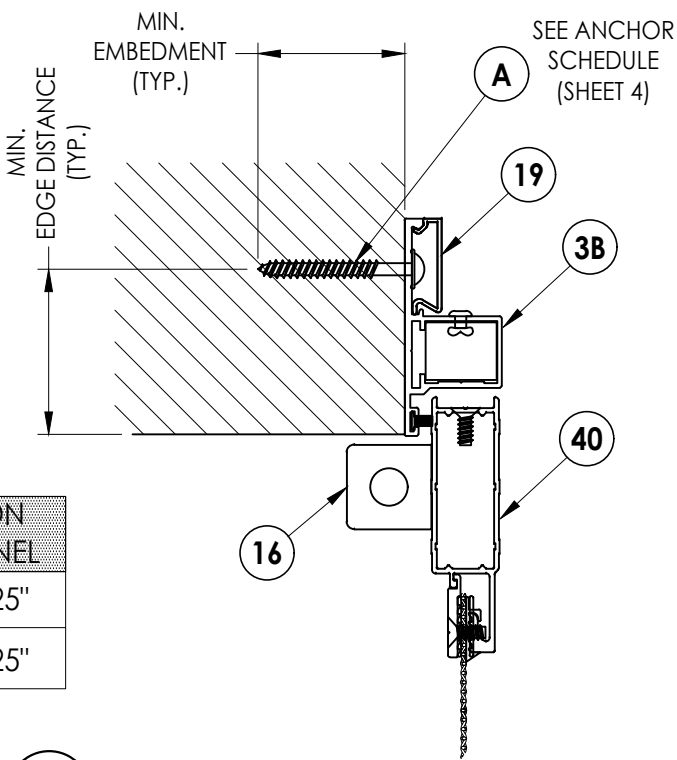
FL-29455.4

SHEET 2 OF 5

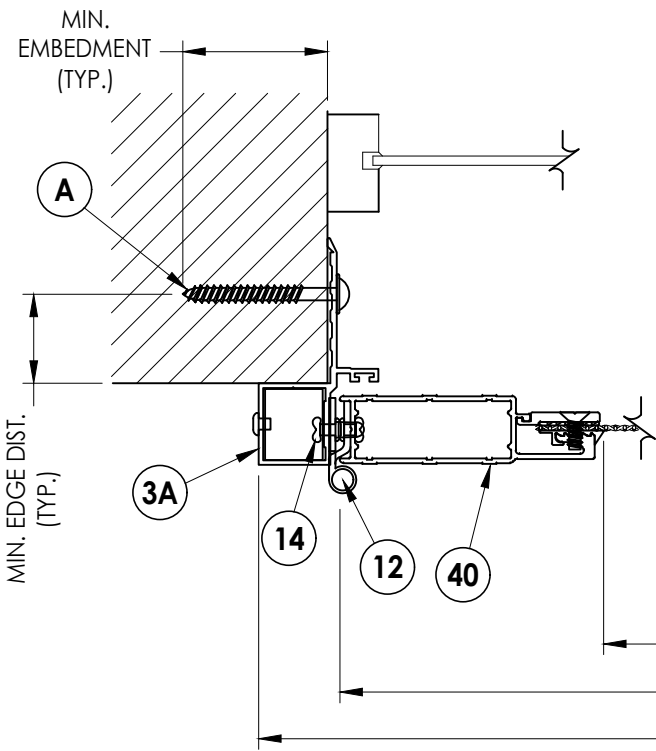
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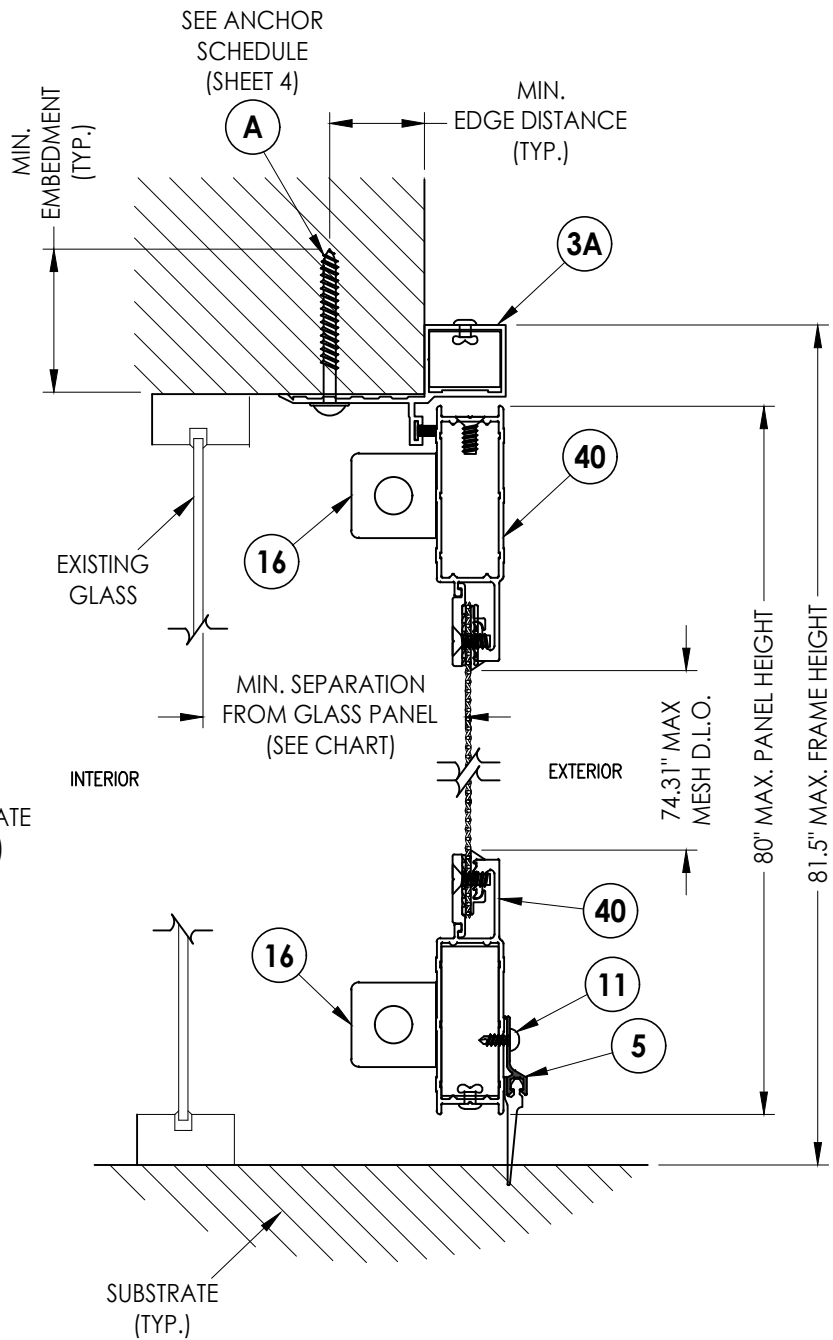
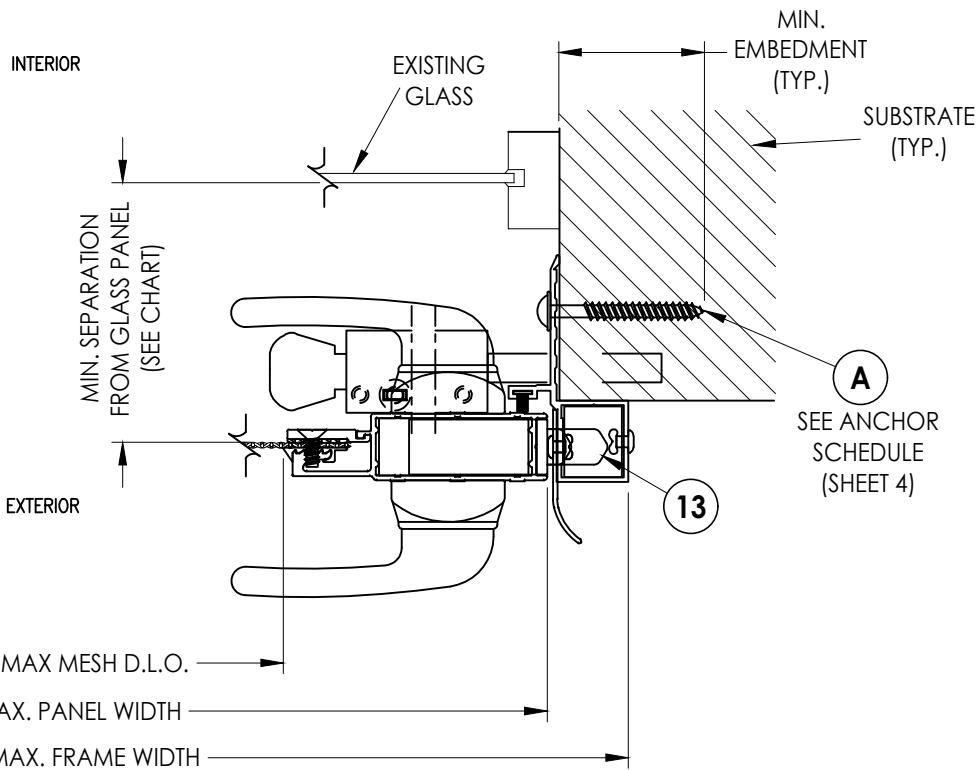
| MIN. SEPARATION FROM GLASS PANEL |       |
|----------------------------------|-------|
| "NON-HVHZ"                       | 3.25" |
| "HVHZ"                           | 3.25" |



**3**  
**3** **VERTICAL CROSS SECTION**  
SHOWN w/ FACE MOUNT DOOR BUILD-OUT



**1**  
**3** **HORIZONTAL CROSS SECTION**  
SHOWN w/ DOOR BUILD-OUT FRAME



**2**  
**3** **VERTICAL CROSS SECTION**  
SHOWN w/ DOOR BUILD-OUT FRAME

Documents Prepared By:  
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P.E. No. 43409

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

PRODUCT:  
HURRICANE SCREEN DOOR

PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
CROSS SECTIONS

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 2   | 9/18/23 | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 8/13/20 | UPDATE TO 7th ED. (2020) FBC |

DATE: 4/11/19

SCALE: N.T.S.

DWG. BY: LFS

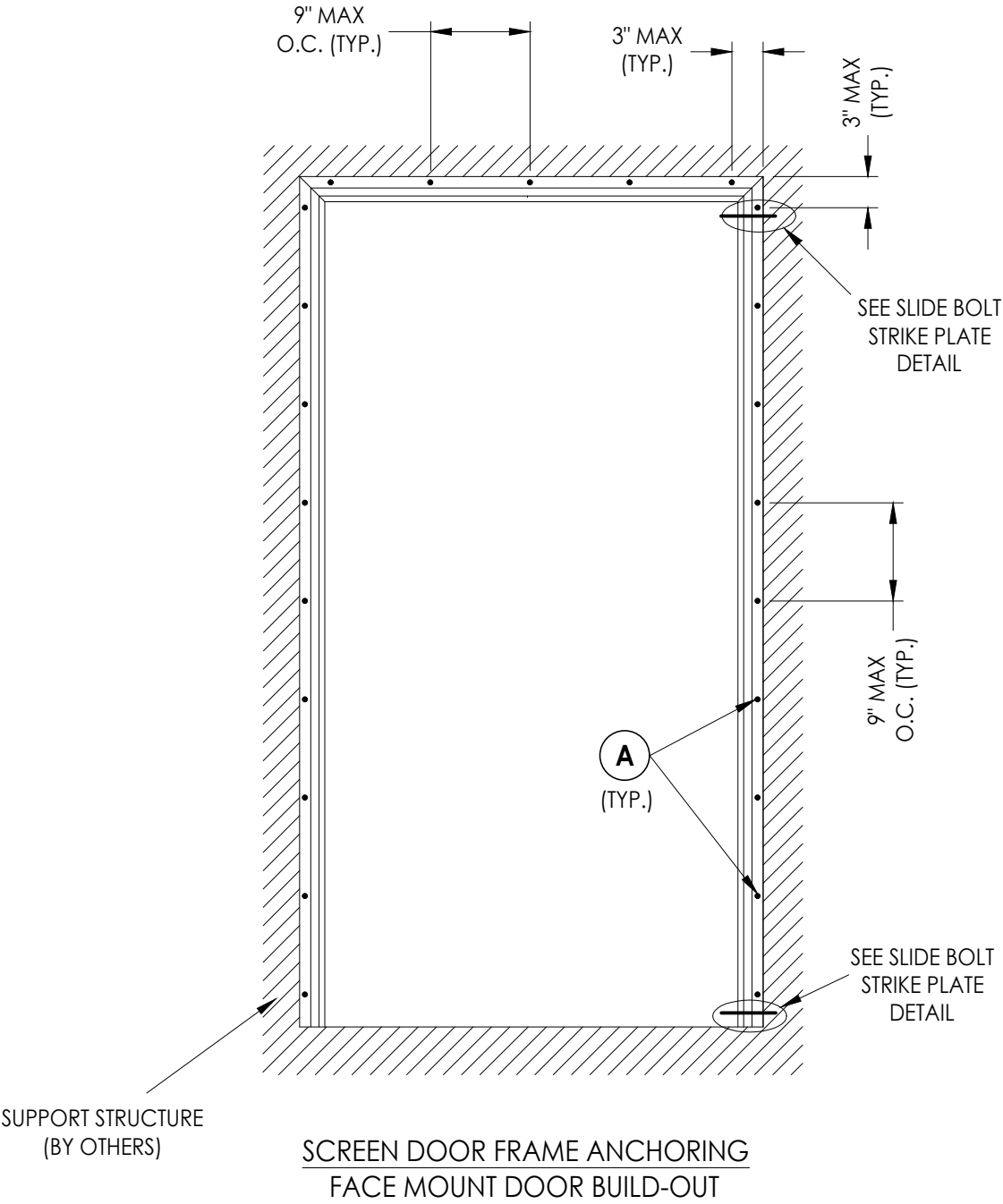
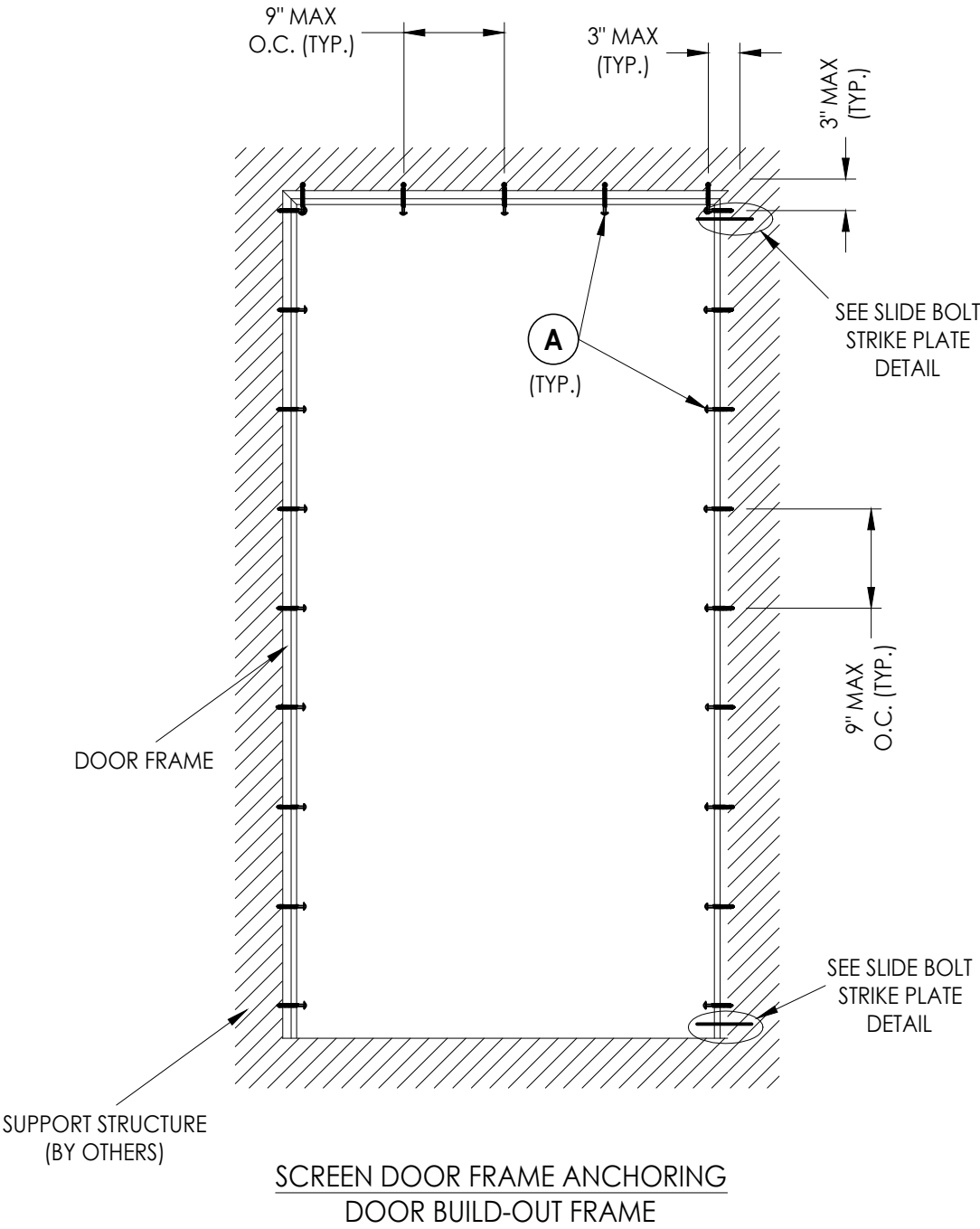
CHK. BY: RW

DRAWING NO.:

FL-29455.4

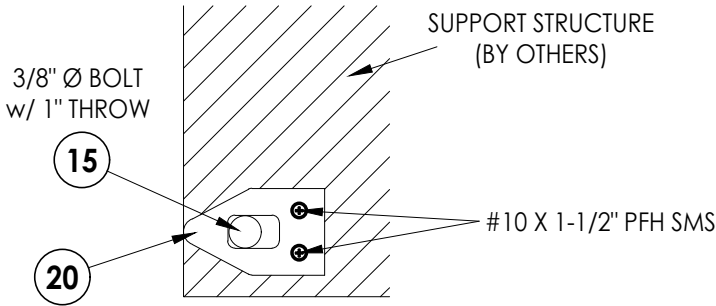
SHEET 3 OF 5

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| A ANCHOR SCHEDULE |                                                                                                                                   |                                                                     |               |                          |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------|--------------------------|
| SUBSTRATE         | ANCHOR                                                                                                                            | EMBEDMENT                                                           | EDGE DISTANCE | CENTER-TO-CENTER SPACING |
| WOOD              | #10 X 1-1/2" PWH SHEET METAL SCREW<br>         | 1-1/4" MIN.                                                         | 1" MIN.       | 1-1/2" MIN.              |
| STEEL/ALUM        | #10-14 HWH SELF-DRILLING SHEET METAL SCREW<br> | A MIN. OF 3 THREADS SHALL PROTRUDE THROUGH THE STEEL/ALUM SUBSTRATE | 3/4" MIN.     | 1-1/2" MIN.              |

WOOD FRAMING (G >= 0.42)  
STEEL OR ALUMINUM FRAMING (MIN. 1/8" WALL THICKNESS - BY OTHERS)



SLIDE BOLT STRIKE PLATE DETAIL  
(Shown @ Sill - Head Similar)

Documents Prepared By:  
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P.E. No. 43409

HURRICANE SCREEN DOOR

PART OR ASSEMBLY:  
FRAME ANCHORING

DATE: 4/11/19

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-29455.4

SHEET 4 OF 5

REVISIONS

| NO. | DATE    | BY  | REVISIONS                    |
|-----|---------|-----|------------------------------|
| 2   | 9/18/23 | LFS | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 8/13/20 | DAC | UPDATE TO 7th ED. (2020) FBC |

Building Consultants, Inc.

P.O. Box 230, Valrico, FL 33595

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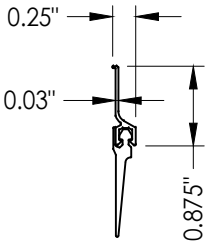
FBPE Registry No. 9813

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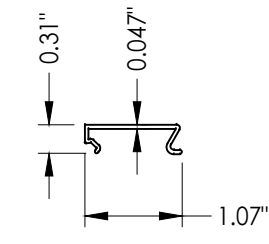
| BILL OF MATERIALS |                                             |                 |
|-------------------|---------------------------------------------|-----------------|
| ITEM #            | DESCRIPTION                                 | MATERIAL        |
| A                 | ANCHOR (SEE SHEET 4 FOR ANCHORING SCHEDULE) | -               |
| 1                 | SCREEN DOOR FRAME (02A)                     | 6063-T5 ALUM    |
| 2                 | HURRICANE CLAMP                             | 6063-T5 ALUM    |
| 3A                | DOOR BUILD-OUT FRAME                        | 6063-T5 ALUM    |
| 3B                | FACE MOUNT DOOR BUILD-OUT                   | 6063-T5 ALUM    |
| 4                 | DOOR CORNER (02A CNR)                       | 6063-T5 ALUM    |
| 5                 | CRIMSAFE BUG SEAL AND RETAINER              | 6063-T5 ALUM    |
| 6                 | SANTOPRENE INSULATOR                        | SANTOPRENE      |
| 7                 | TESA TAPE                                   | -               |
| 8                 | WOOLPILE                                    | -               |
| 10                | #8 X 13/32" FH COUNTERSUNK CLAMP SCREWS     | STAINLESS STEEL |
| 11                | #8 X 3/8" PH SELF-DRILLING SCREWS           | STAINLESS STEEL |
| 12                | HINGE                                       | STEEL           |
| 13                | MULTIPOINT LOCK SYSTEM                      | STEEL           |
| 14                | 6/4" RIVETS                                 | STAINLESS STEEL |
| 15                | FRAME CORNER                                | 6063-T5 ALUM    |
| 16                | PATIO SLIDE BOLT                            | STEEL           |
| 17                | DOOR MIDRAIL                                | 6063-T5 ALUM    |
| 18                | 5/4" RIVETS                                 | STAINLESS STEEL |
| 19                | COVER (08B)                                 | 6063-T5 ALUM    |
| 20                | PATIO SLIDE BOLT STRIKE PLATE               | STEEL           |



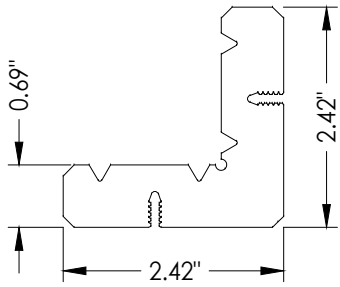
13 MULTIPOINT LOCK SYSTEM (3 PT.)



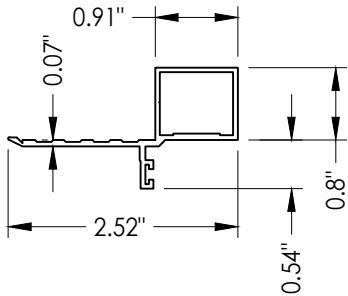
5 SWEEP



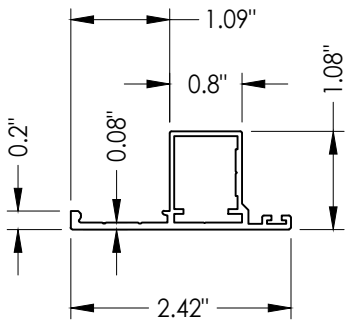
19 COVER



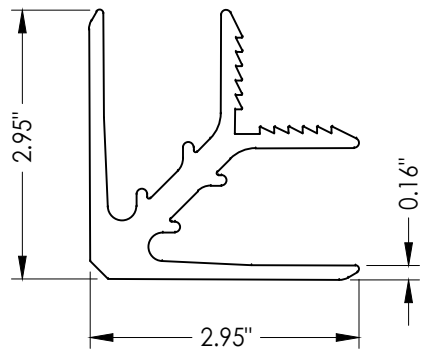
15 FRAME CORNER



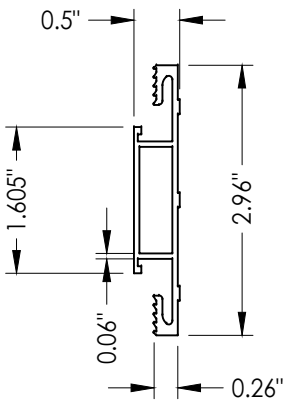
3A DOOR BUILD-OUT FRAME



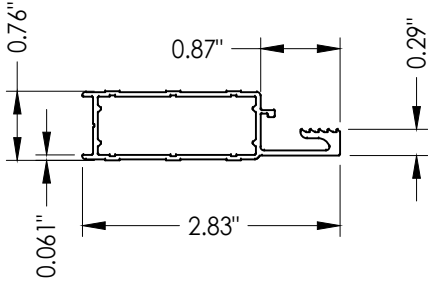
3B FACE MOUNT DOOR BUILD-OUT



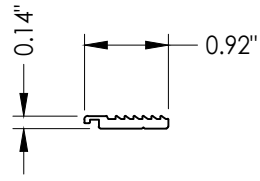
4 DOOR CORNER



17 DOOR MIDRAIL



1 SCREEN DOOR FRAME



2 HURRICANE CLAMP

|                                                               |  |                                                                                                                    |                              |
|---------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|------------------------------|
| 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>HURRICANE SCREEN DOOR                             |  | PART OR ASSEMBLY:<br>BILL OF MATERIALS<br>& COMPONENTS                                                             |                              |
|                                                               |  | LFS                                                                                                                | BY                           |
|                                                               |  | DAC                                                                                                                |                              |
|                                                               |  | NO.                                                                                                                | DATE                         |
|                                                               |  | 2                                                                                                                  | 9/18/23                      |
|                                                               |  | 1                                                                                                                  | 8/13/20                      |
|                                                               |  |                                                                                                                    | UPDATE TO 8TH ED. (2023) FBC |
|                                                               |  |                                                                                                                    | UPDATE TO 7th ED. (2020) FBC |
|                                                               |  |                                                                                                                    | REVISIONS                    |
| DATE: 4/11/19                                                 |  |                                                                                                                    |                              |
| SCALE: N.T.S.                                                 |  |                                                                                                                    |                              |
| DWG. BY: LFS                                                  |  |                                                                                                                    |                              |
| CHK. BY: RW                                                   |  |                                                                                                                    |                              |
| DRAWING NO.: FL-29455.4                                       |  |                                                                                                                    |                              |
| SHEET 5 OF 5                                                  |  |                                                                                                                    |                              |