



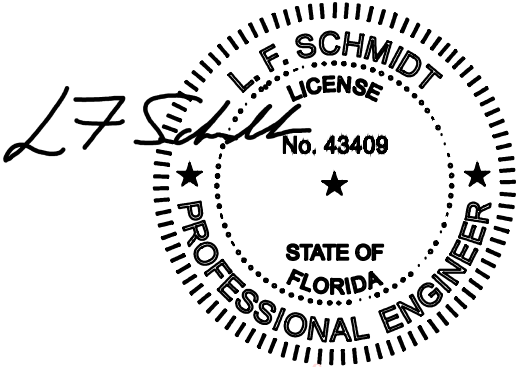
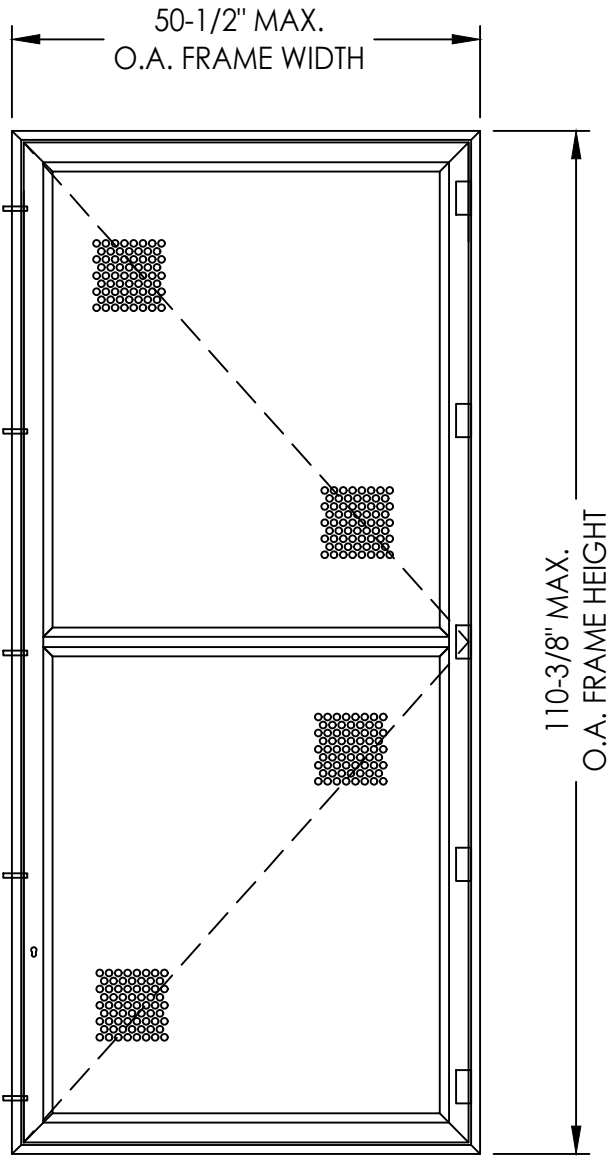
515 N. FRALEY STREET  
KANE, PA 16735  
PH. (814) 837-6464

VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
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 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. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. All steel shall be protected as specified in Section 2222.6 of the FBC.

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| SHEET #           | DESCRIPTION                                         |
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| 10                | Reveal mount anchoring - 2x wood framing            |
| 11                | Components and hardware details                     |
| 12                | Bill of materials & lock release options            |



Digitally signed by Lyndon F Schmidt  
Date: 2025.02.03 07:41:55 -05'00'

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

| MOUNTING STYLE | OVERALL FRAME DIMENSION | SCREEN OPENING DIMENSION | DESIGN PRESSURE (PSF) (without Porosity Factor) |          | DESIGN PRESSURE (PSF) (with Porosity Factor*) |          |
|----------------|-------------------------|--------------------------|-------------------------------------------------|----------|-----------------------------------------------|----------|
|                |                         |                          | POSITIVE                                        | NEGATIVE | POSITIVE                                      | NEGATIVE |
| REVEAL MOUNT   | 50.50"                  | 41.78"                   | 70.0                                            | 70.0     | 110.0                                         | 110.0    |
| SURFACE MOUNT  | 110.375"                | 49.18"                   | 70.0                                            | 70.0     | 110.0                                         | 110.0    |

\* NOTE: The Design Pressure shown has been increased for the porosity of the barrier (62%). The consideration of the use of the porosity factor is at the discretion of the Design Professional or the Authority Having Jurisdiction.

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

PRODUCT:

KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:

DATE:

8/26/13

SCALE:

N.T.S.

DWG. BY:

JK

CHK. BY:

LFS

DRAWING NO.:

FL-10238.1

SHEET

1

OF

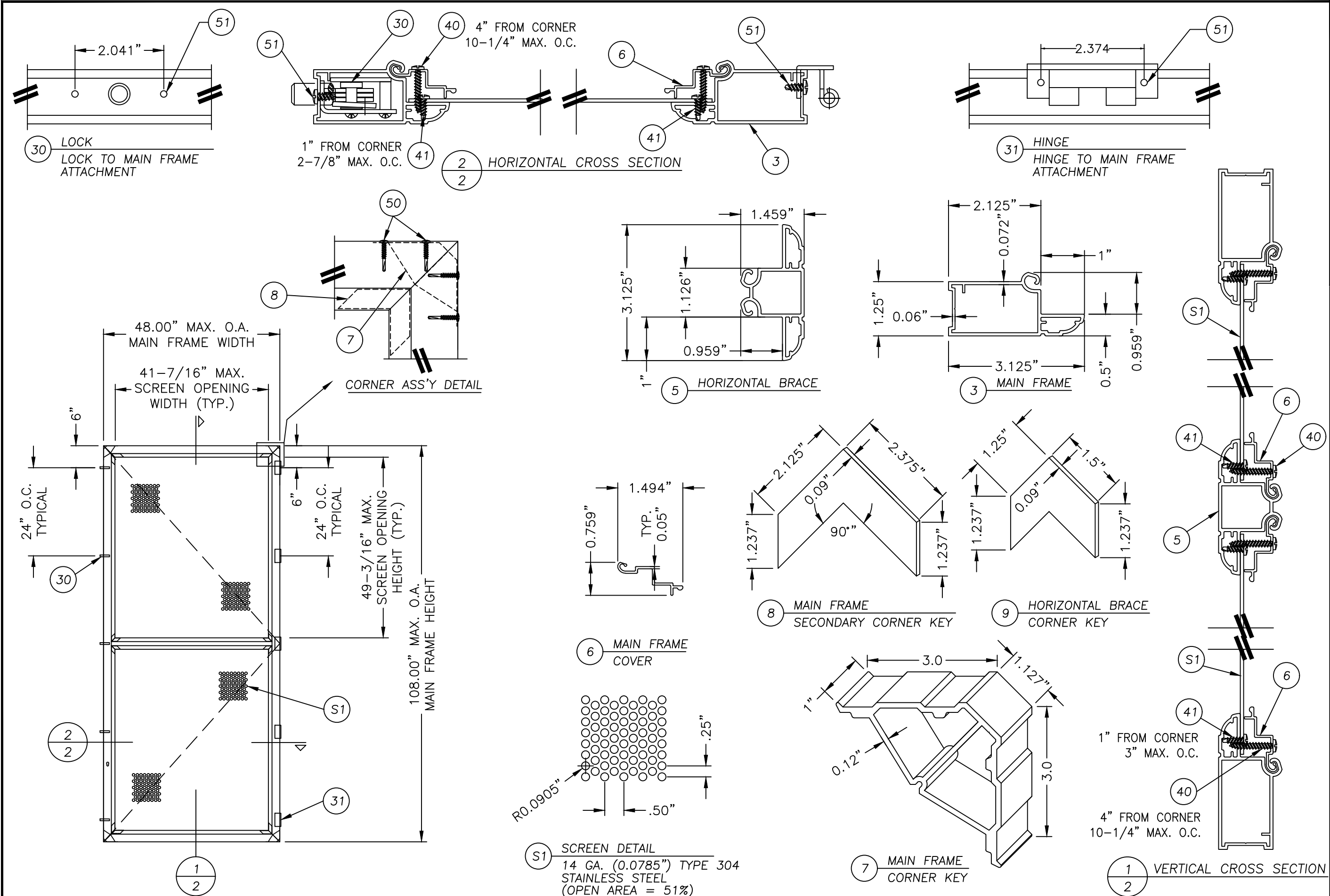
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Building Consultants, Inc.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

REVISIONS

| NO. | DATE     | REVISIONS                    |
|-----|----------|------------------------------|
| 1   | 12/10/13 | ADDED POROSITY D.P. RATING   |
| 2   | 7/01/15  | UPDATE TO 5th ED. (2014) FBC |
| 3   | 9/26/17  | UPDATE TO 6TH ED. (2017) FBC |
| 4   | 1/18/21  | UPDATE TO 7TH ED. (2020) FBC |
| 5   | 2/03/25  | UPDATE TO 8TH ED. (2023) FBC |

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|                        |          |                            |     |                             |  |
|------------------------|----------|----------------------------|-----|-----------------------------|--|
| Documents Prepared By: |          | Lyndon F. Schmidt          |     | P.E. No. 43409              |  |
| PRODUCT:               |          | KANE SCREENS               |     | VAN GUARD II                |  |
|                        |          | ALUMINUM HURRICANE BARRIER |     | PART OR ASSEMBLY:           |  |
|                        |          | BARRIER PANEL SECTIONS,    |     | COMPONENTS & SCREEN DETAILS |  |
|                        |          | REVISIONS                  |     |                             |  |
| 5                      | 2/03/25  | UPDATE TO 8TH ED. (2023)   | FBC | LFS                         |  |
| 4                      | 1/18/21  | UPDATE TO 7TH ED. (2020)   | FBC | LFS                         |  |
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| 2                      | 7/01/15  | UPDATE TO 5TH ED. (2014)   | FBC | LFS                         |  |
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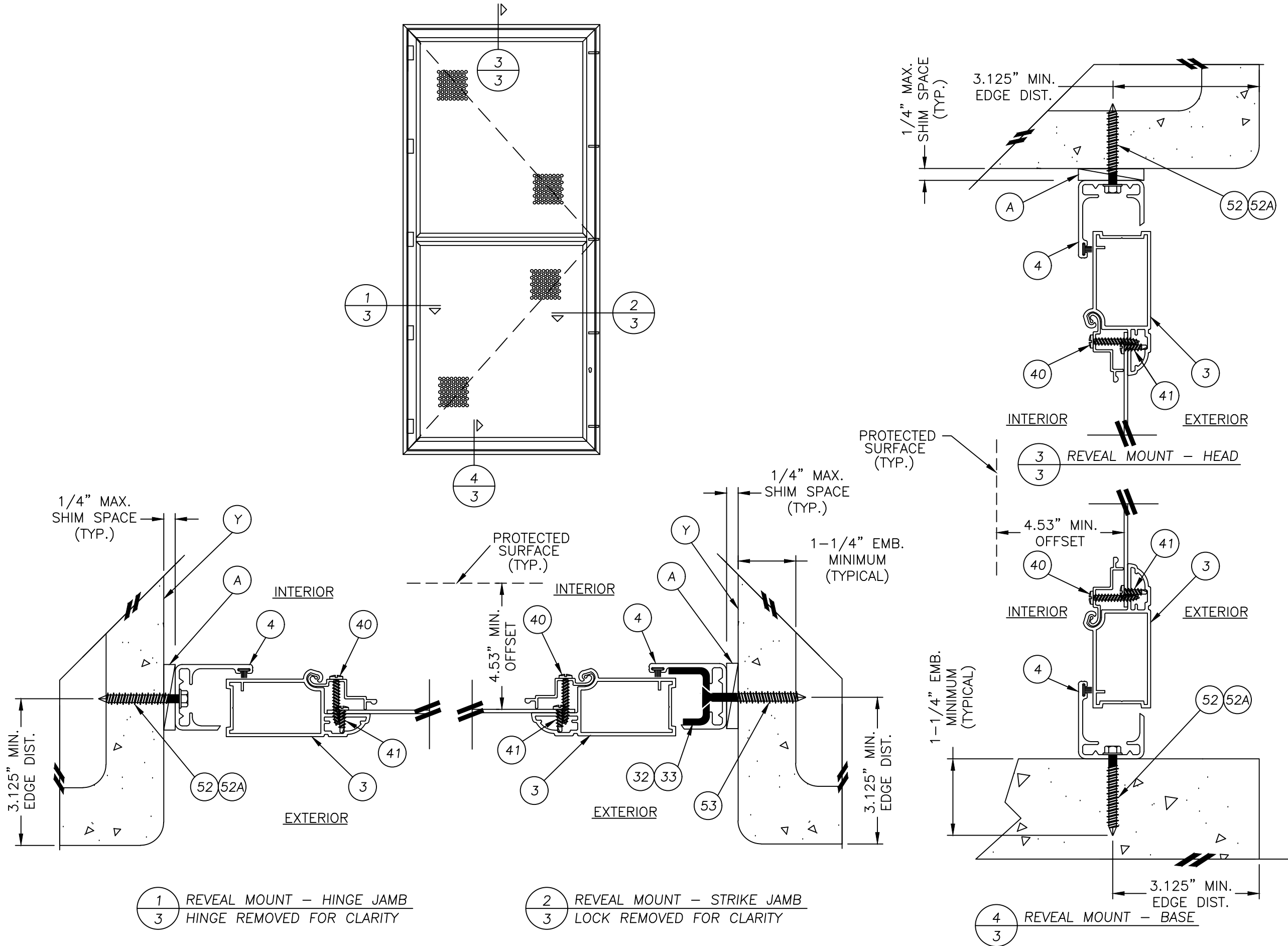
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SHEET 2 OF 12

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FBPE Registry No. 9813

PRODUCT: KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY: REVEAL MOUNT SECTIONS  
MASNOY WALLS

| NO. | DATE     | REVISIONS                    |
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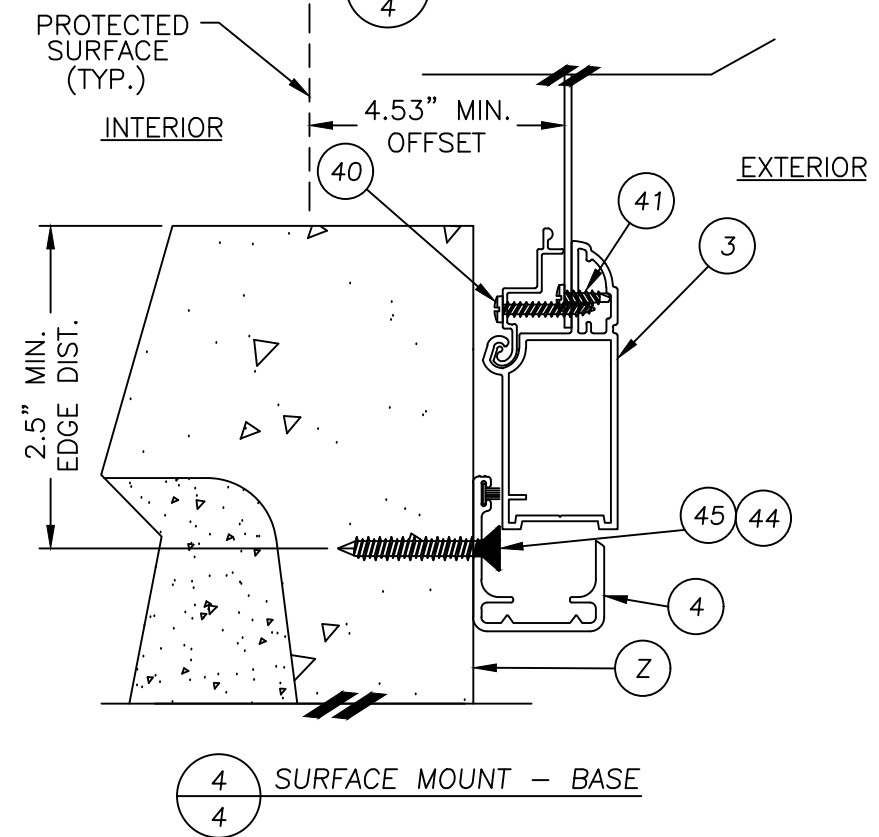
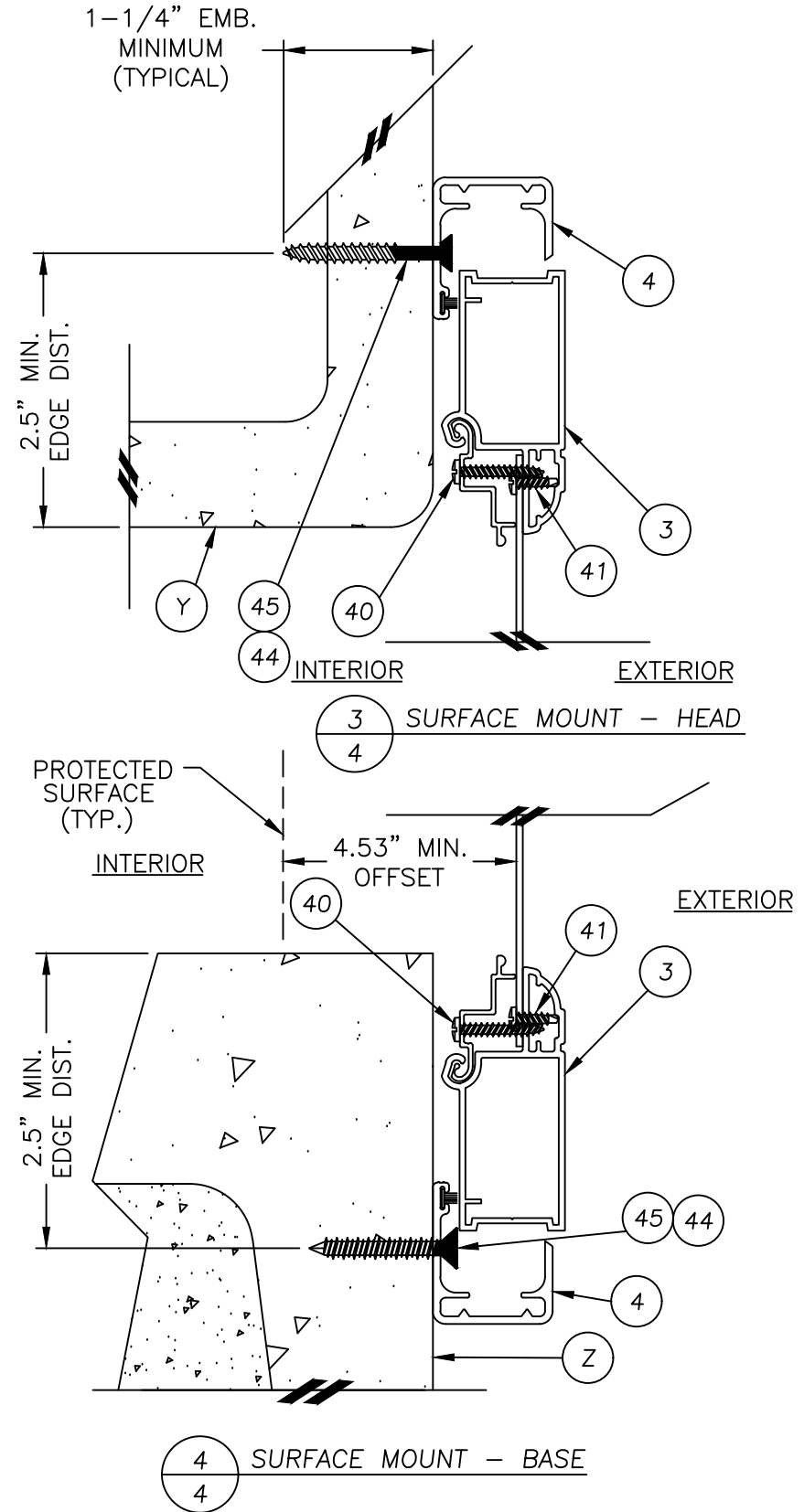
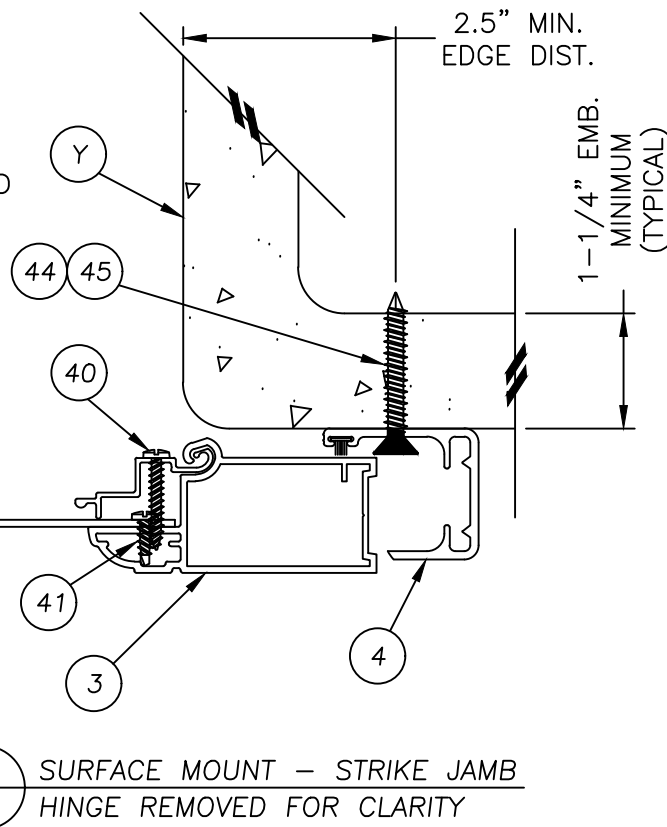
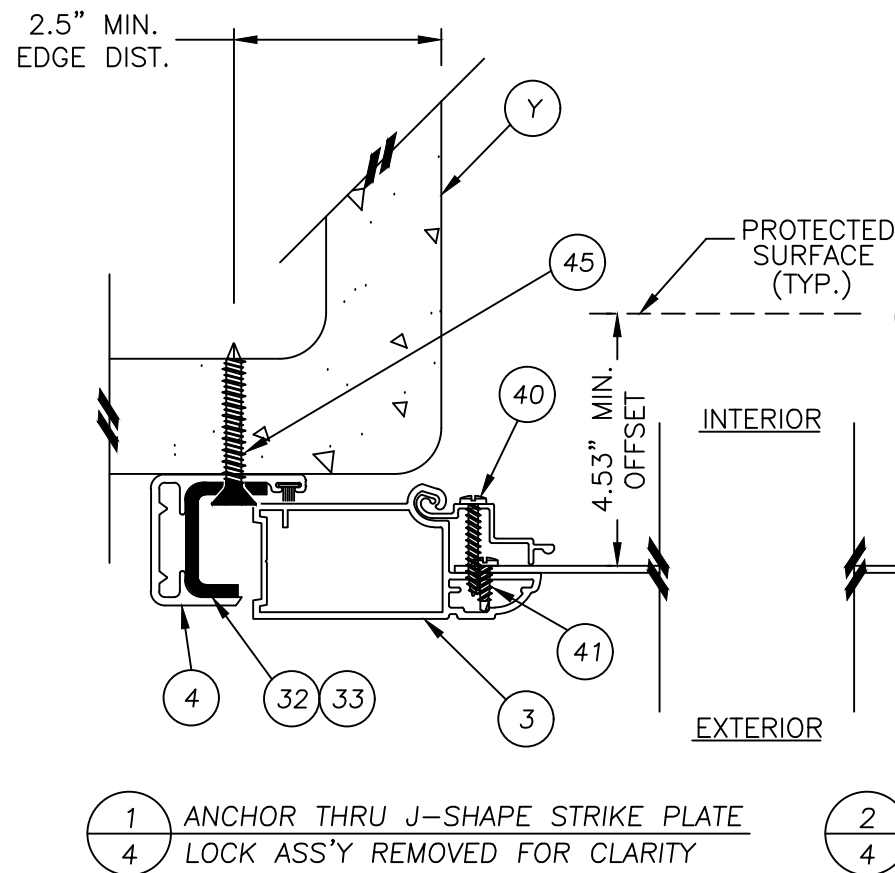
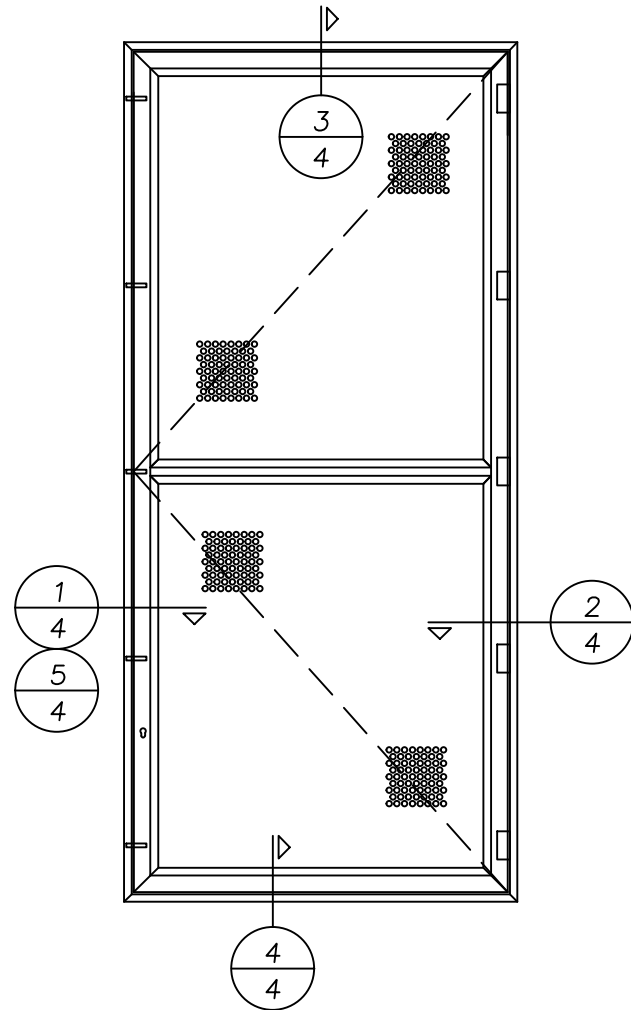
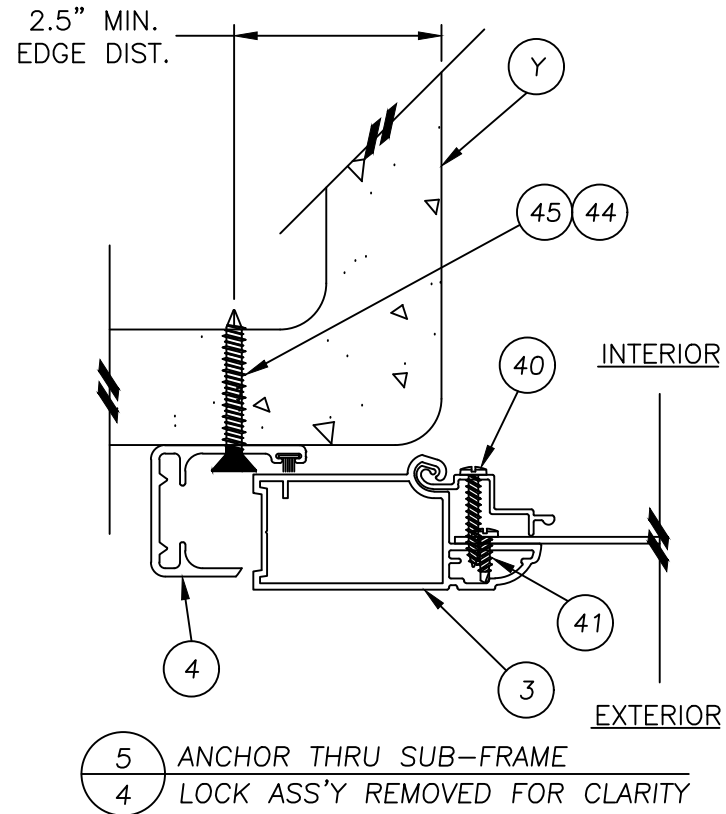
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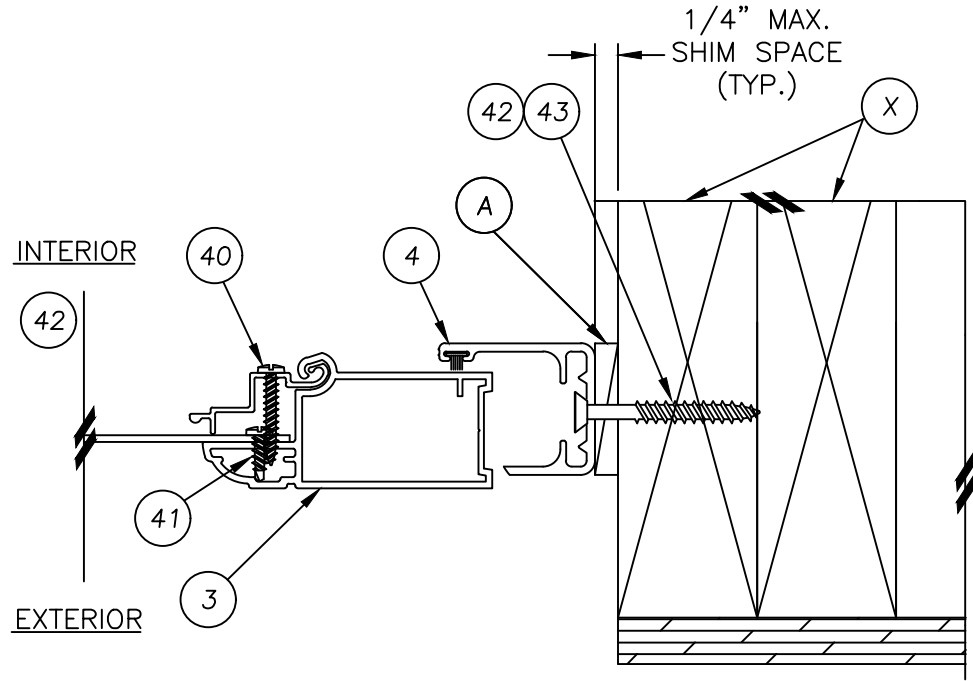
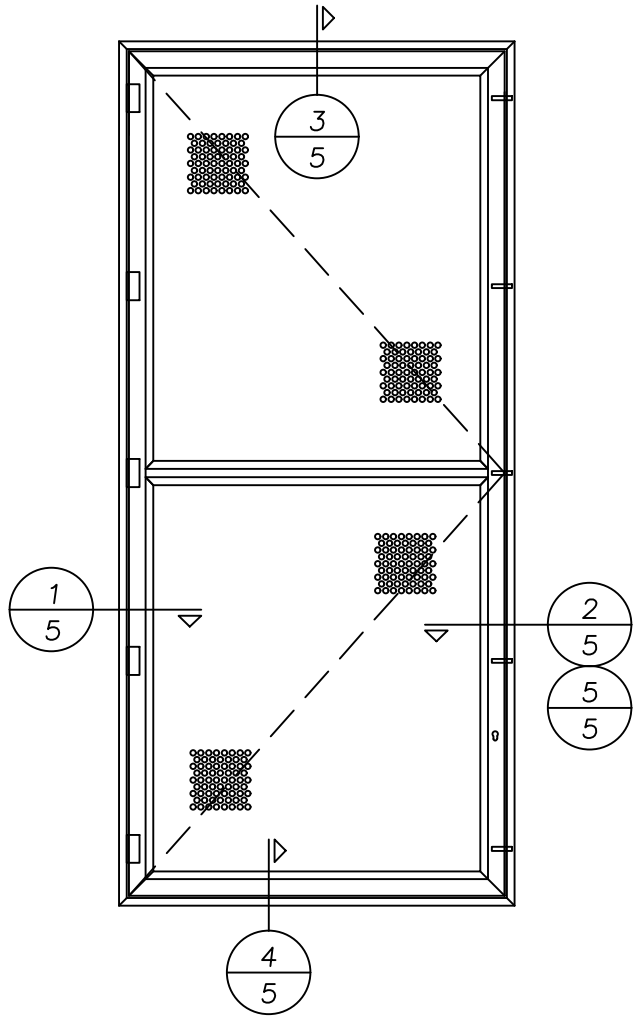
PRODUCT: KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:  
SURFACE MOUNT SECTIONS  
MASONRY WALLS

| NO. | DATE     | REVISIONS                  |     |     |    |
|-----|----------|----------------------------|-----|-----|----|
|     |          | LFS                        | JK  | LFS | BY |
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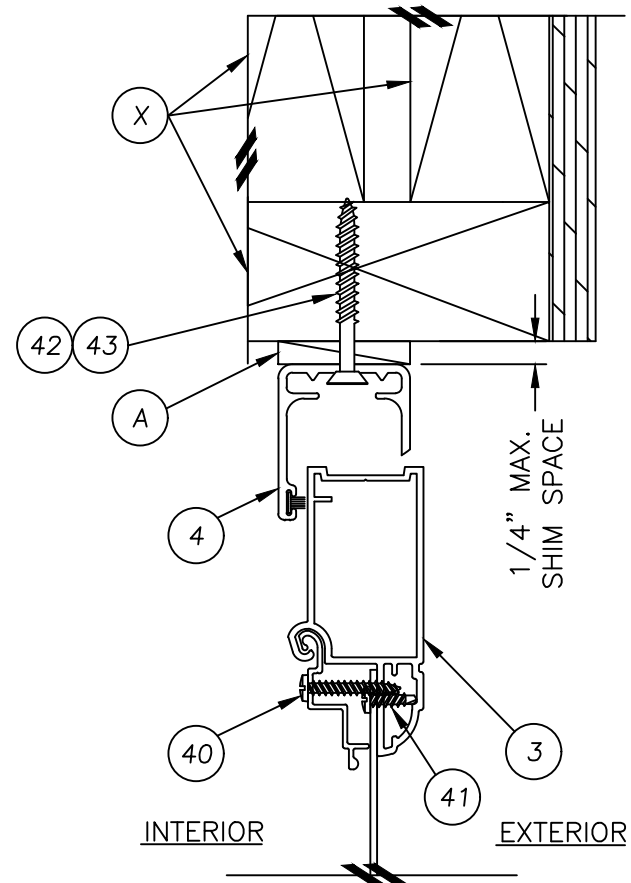
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CHK. BY: LFS  
DRAWING NO.: FL-10238.1  
SHEET 4 OF 12

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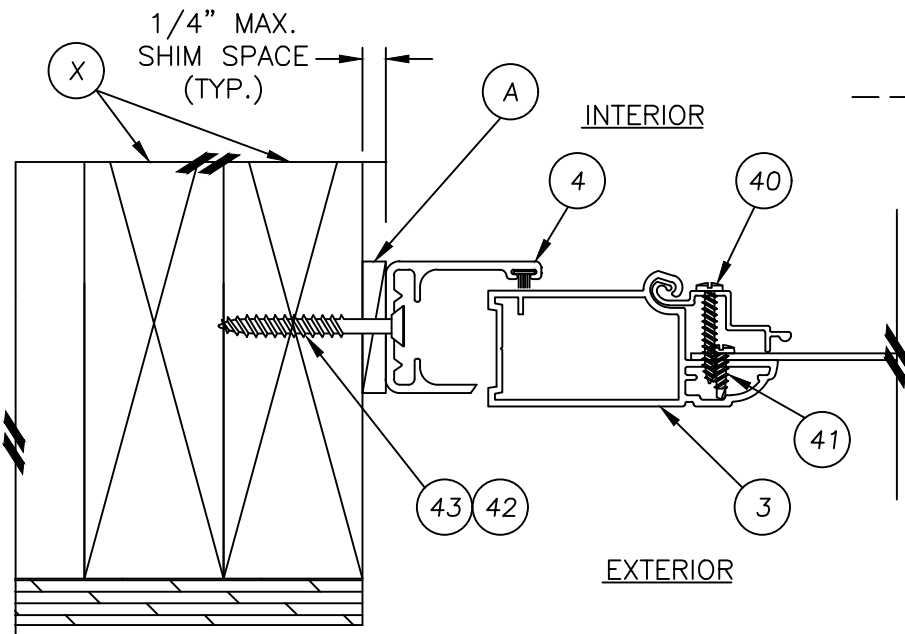
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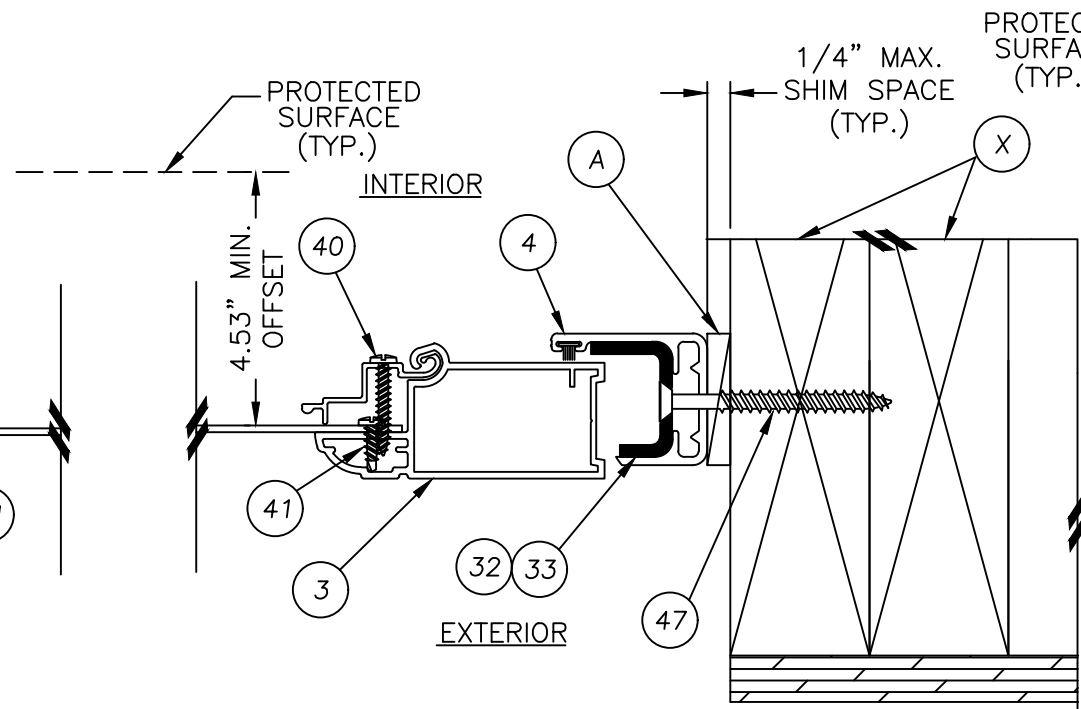
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5 LOCK REMOVED FOR CLARITY



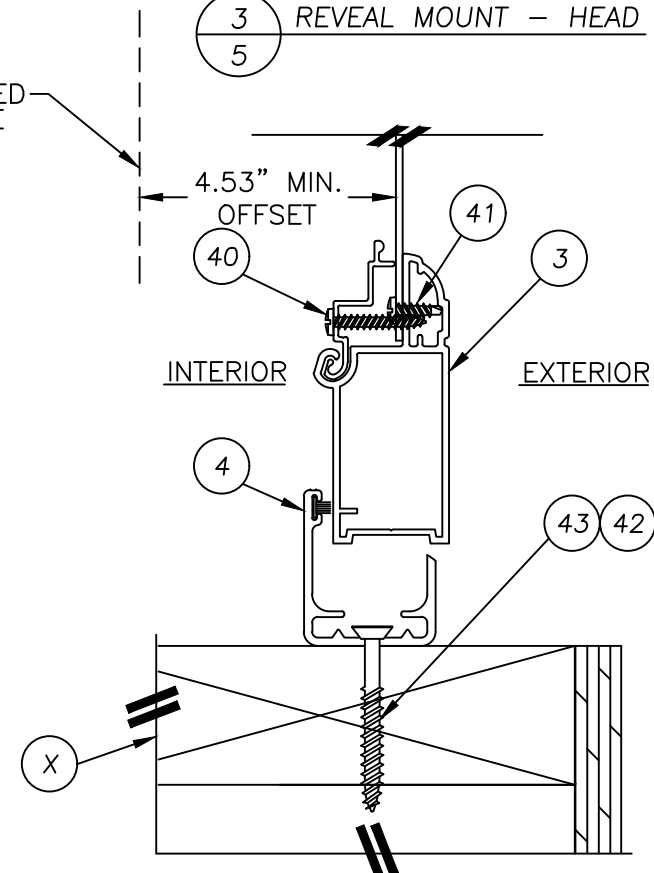
3 REVEAL MOUNT – HEAD  
5



1 REVEAL MOUNT – HINGE JAMB  
5 HINGE REMOVED FOR CLARITY



2 REVEAL MOUNT – STRIKE JAMB  
5 LOCK REMOVED FOR CLARITY



4 REVEAL MOUNT – BASE  
5

Documents Prepared By:  
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P.E. No. 43409

PRODUCT:  
KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:

REVEAL MOUNT SECTIONS  
2X WOOD FRAMING

| NO. | DATE     | BY                         | REVISIONS |
|-----|----------|----------------------------|-----------|
| 5   | 2/03/25  | UPDATE TO 8TH ED. (2023)   | FBC       |
| 4   | 1/18/21  | UPDATE TO 7TH ED. (2020)   | FBC       |
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DATE: 8/26/13

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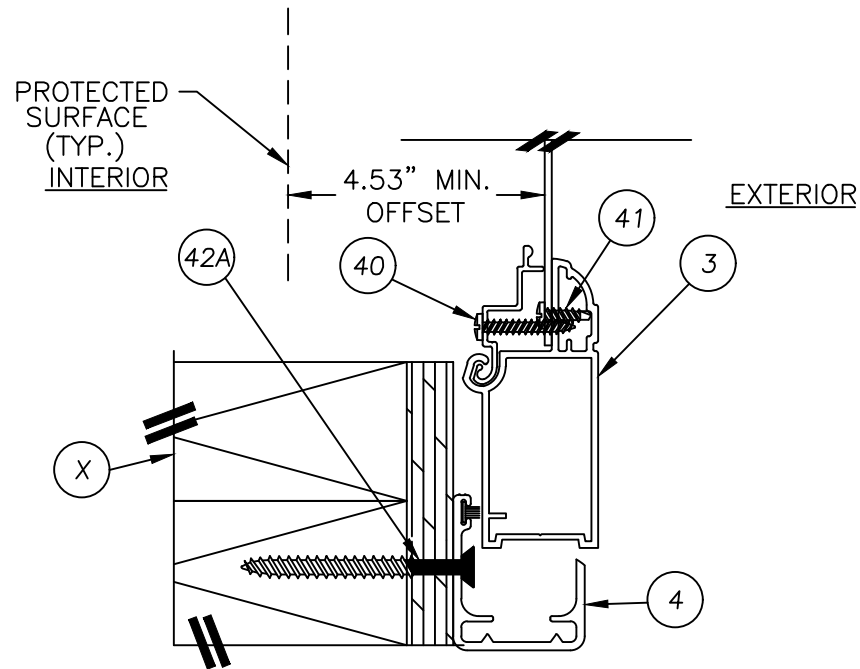
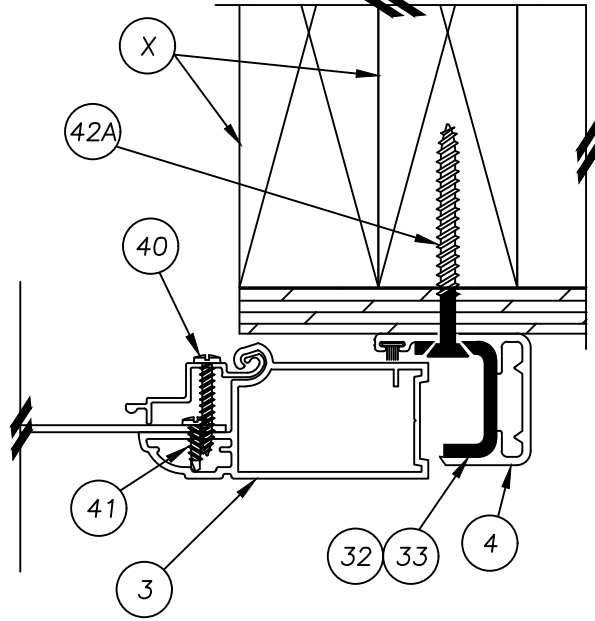
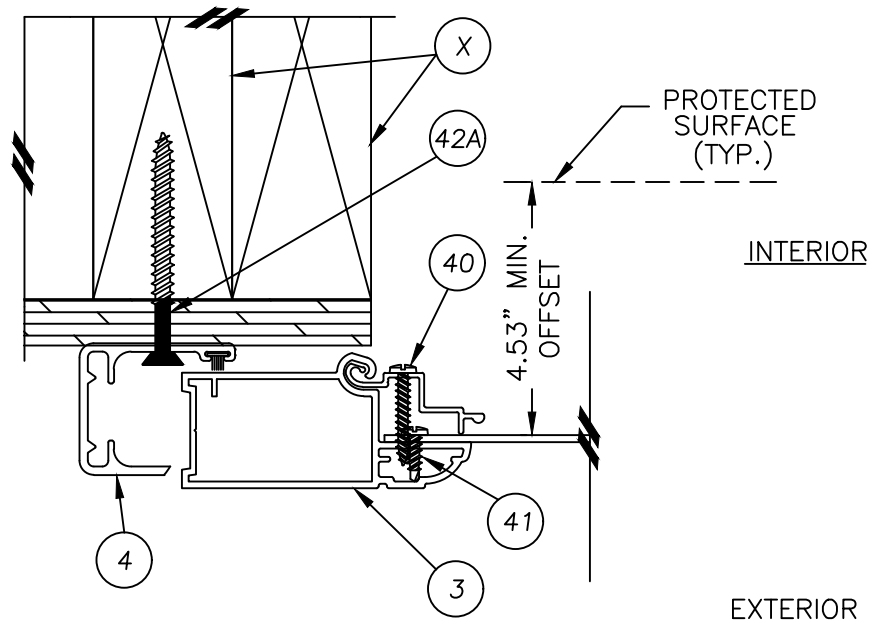
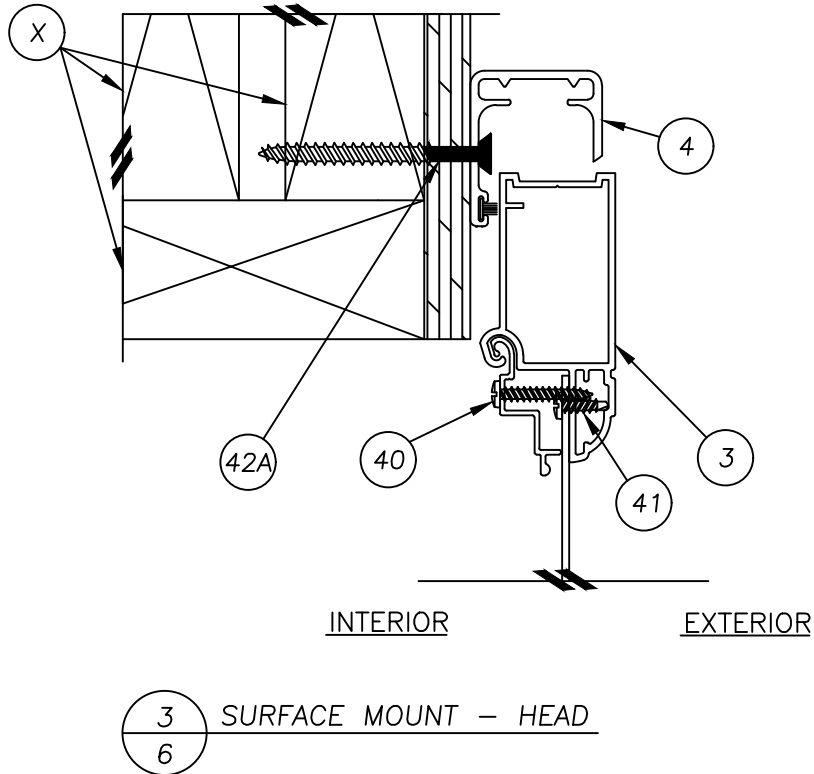
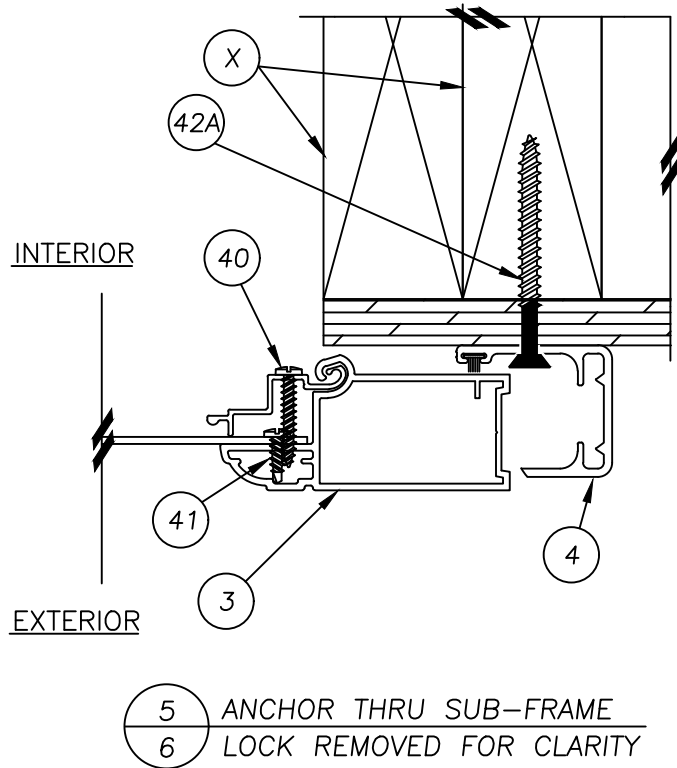
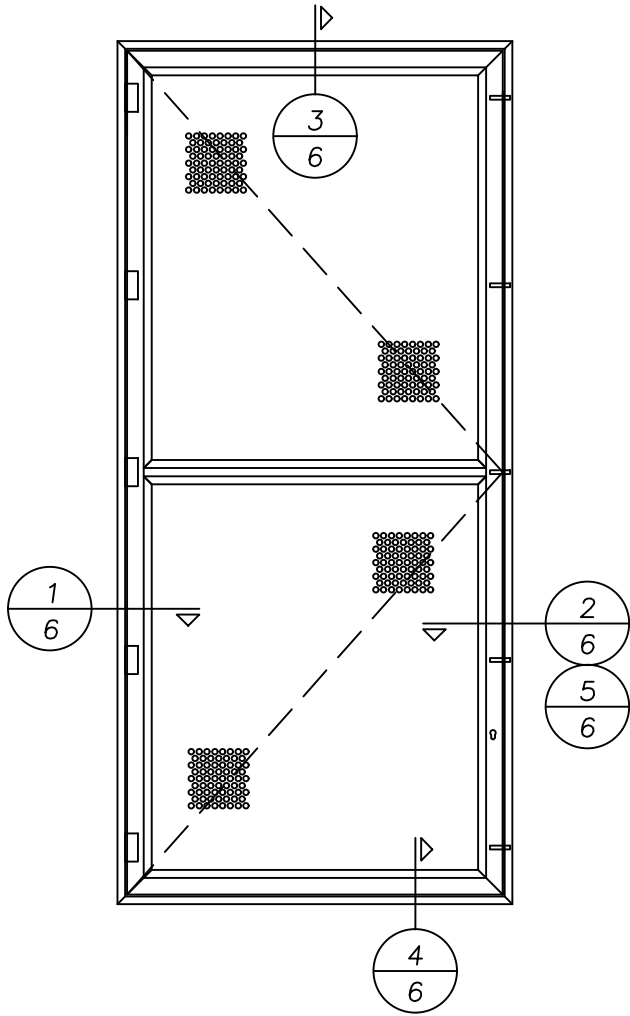
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1 SURFACE MOUNT – HINGE JAMB  
6 HINGE REMOVED FOR CLARITY

2 ANCHOR THRU J-SHAPE STRIKE PLATE  
6 LOCK REMOVED FOR CLARITY

4 SURFACE MOUNT – BASE  
6

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PRODUCT: KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:  
SURFACE MOUNT SECTIONS  
2X WOOD FRAMING

| NO. | DATE     | REVISIONS                    |
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| 5   | 2/03/25  | UPDATE TO 8TH ED. (2023) FBC |
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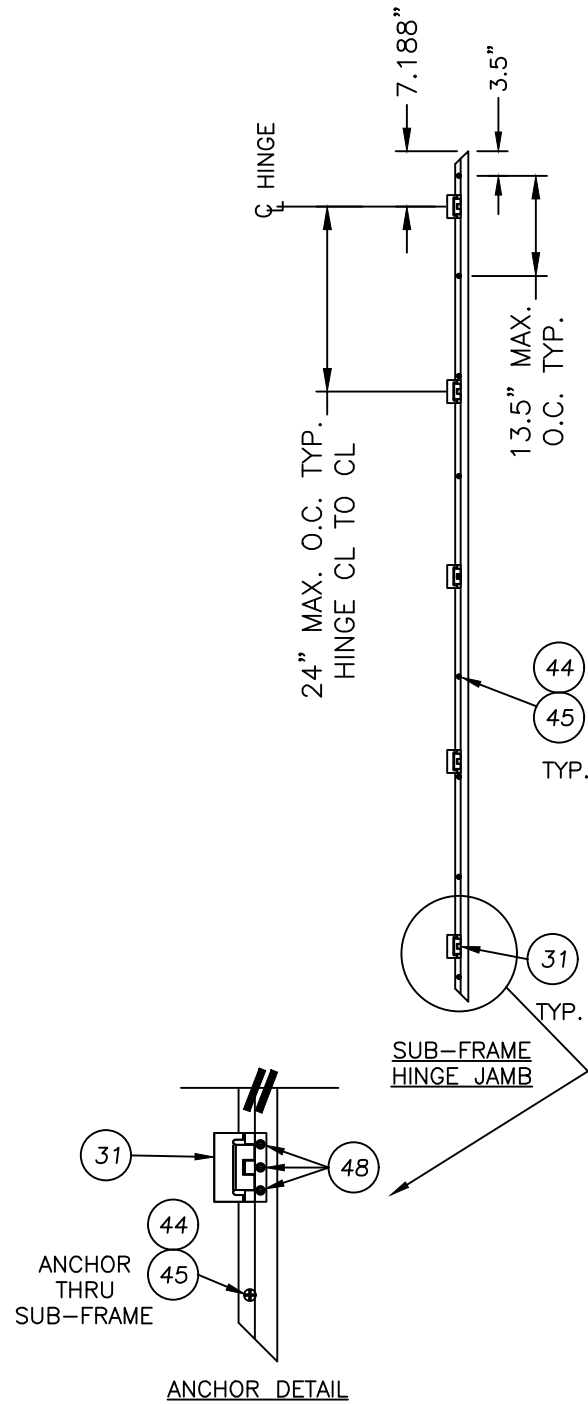
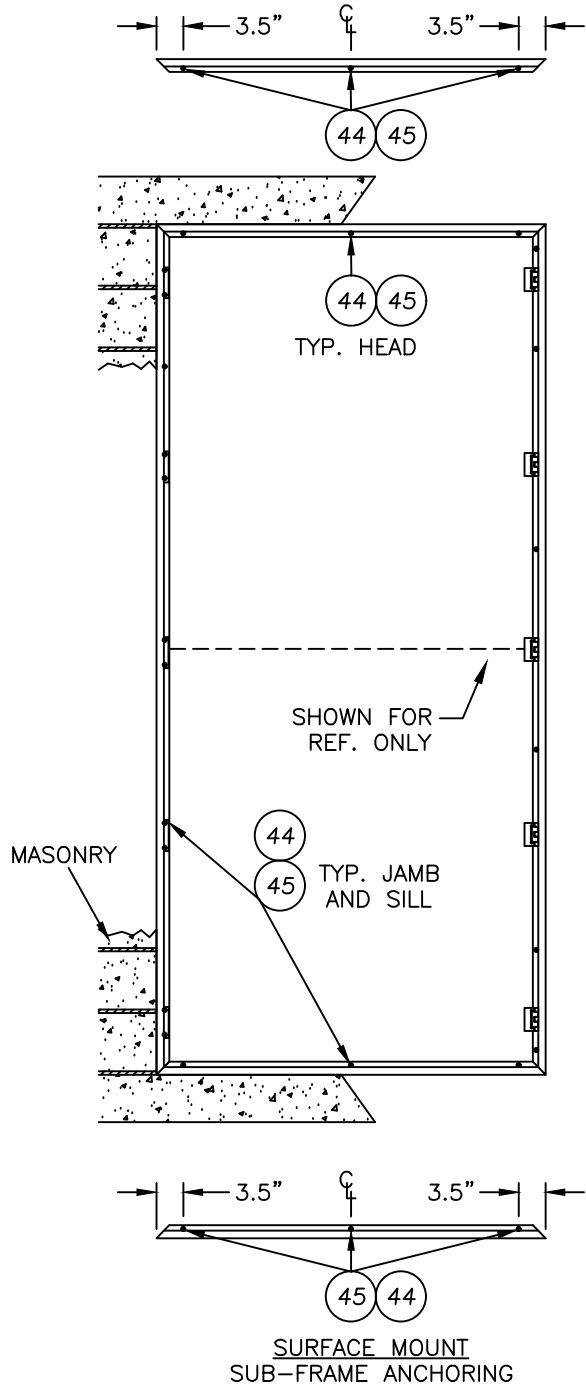
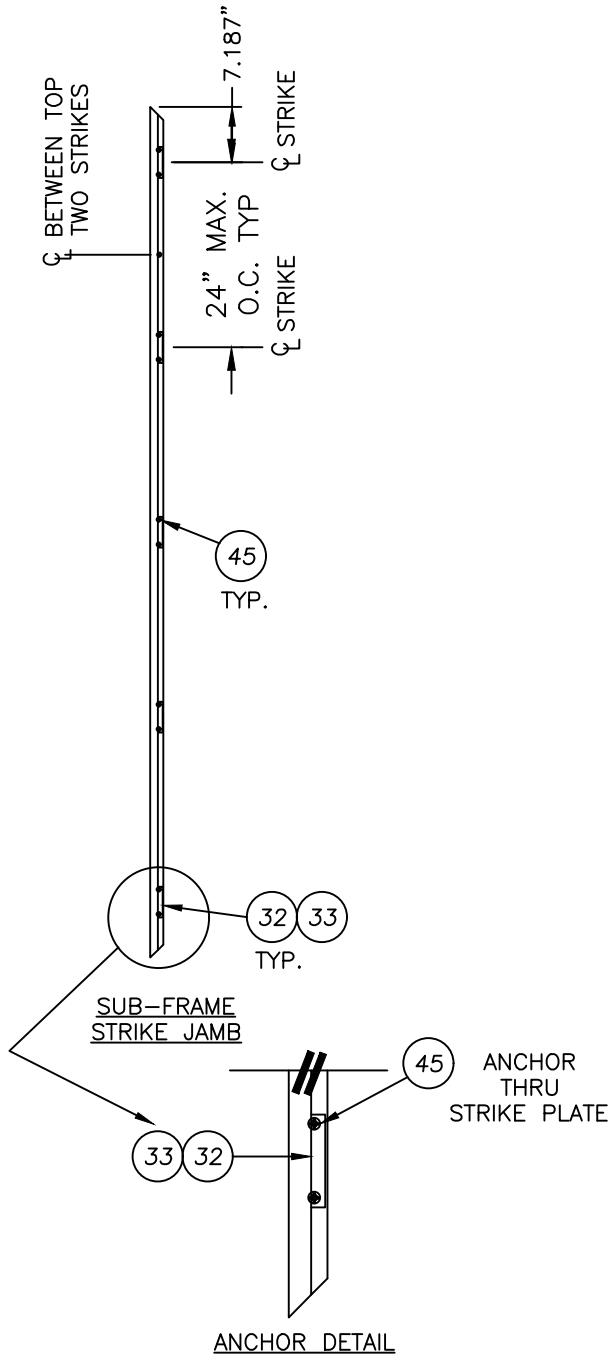
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CONCRETE ANCHOR NOTES:

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. 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.
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"         | 2-1/2"                         | 4"<br>(3-1/8" @ STRIKE)           |

Documents Prepared By:  
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P.E. No. 43409

PRODUCT: KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:  
SURFACE MOUNT ANCHORING  
MASONRY WALL

| NO. | DATE     | REVISIONS                    |
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DATE: 8/26/13

SCALE: N.T.S.

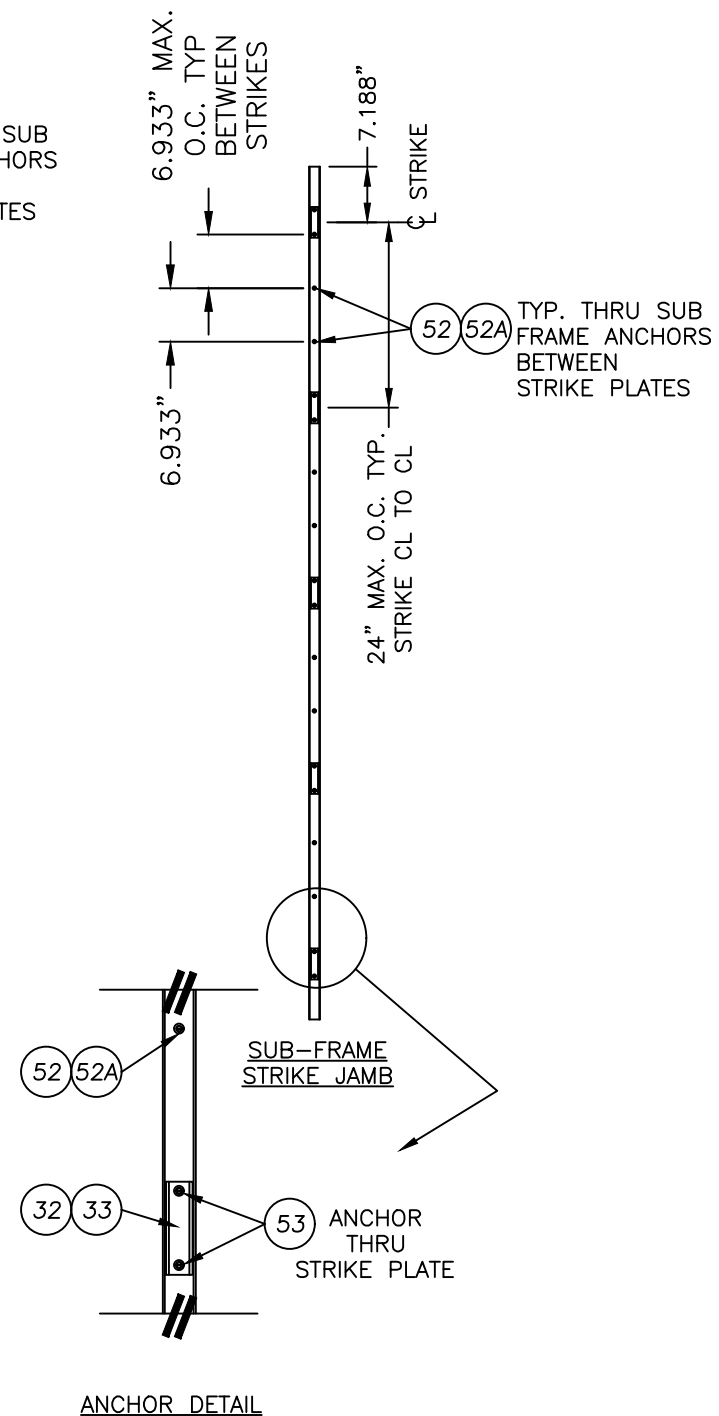
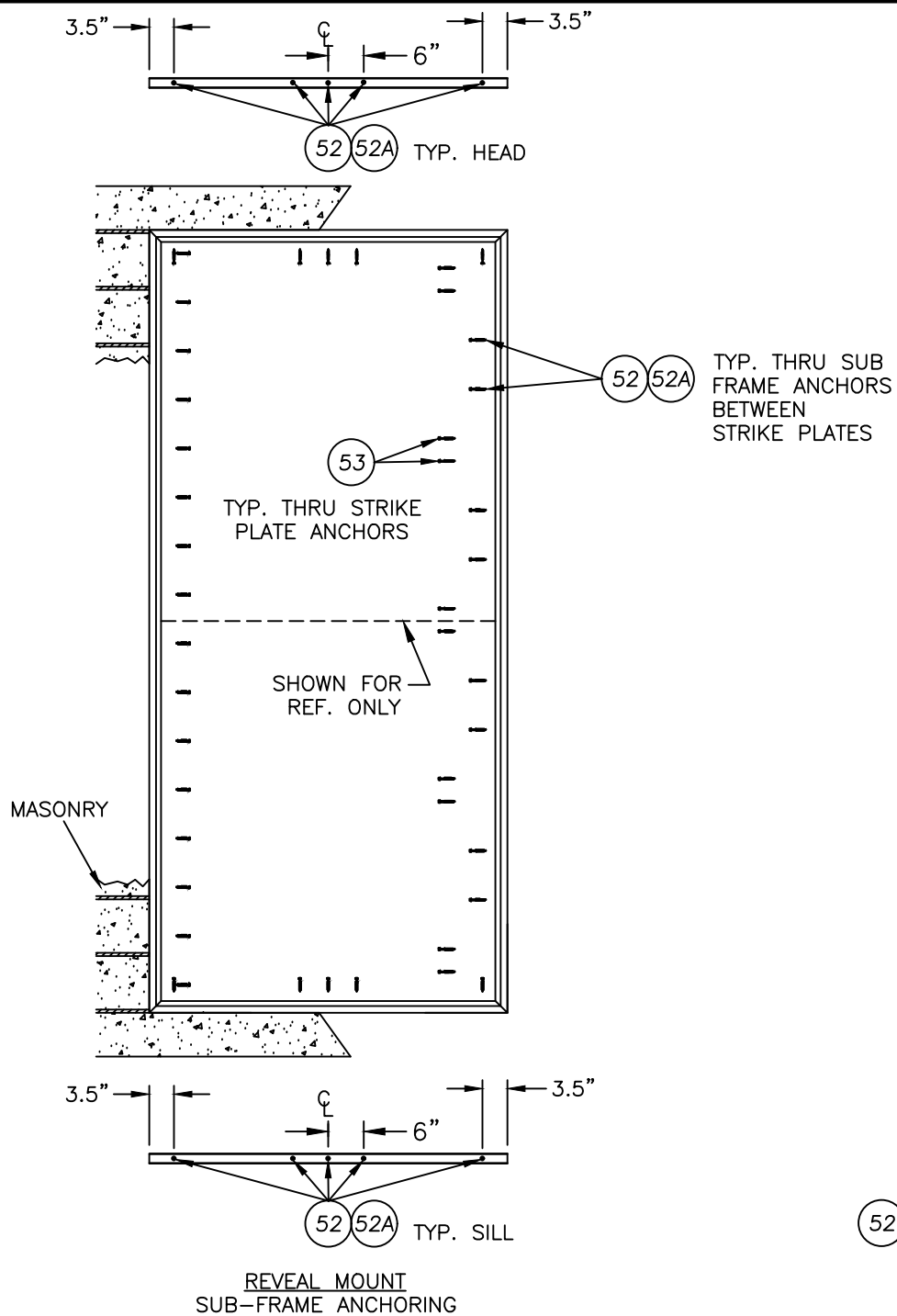
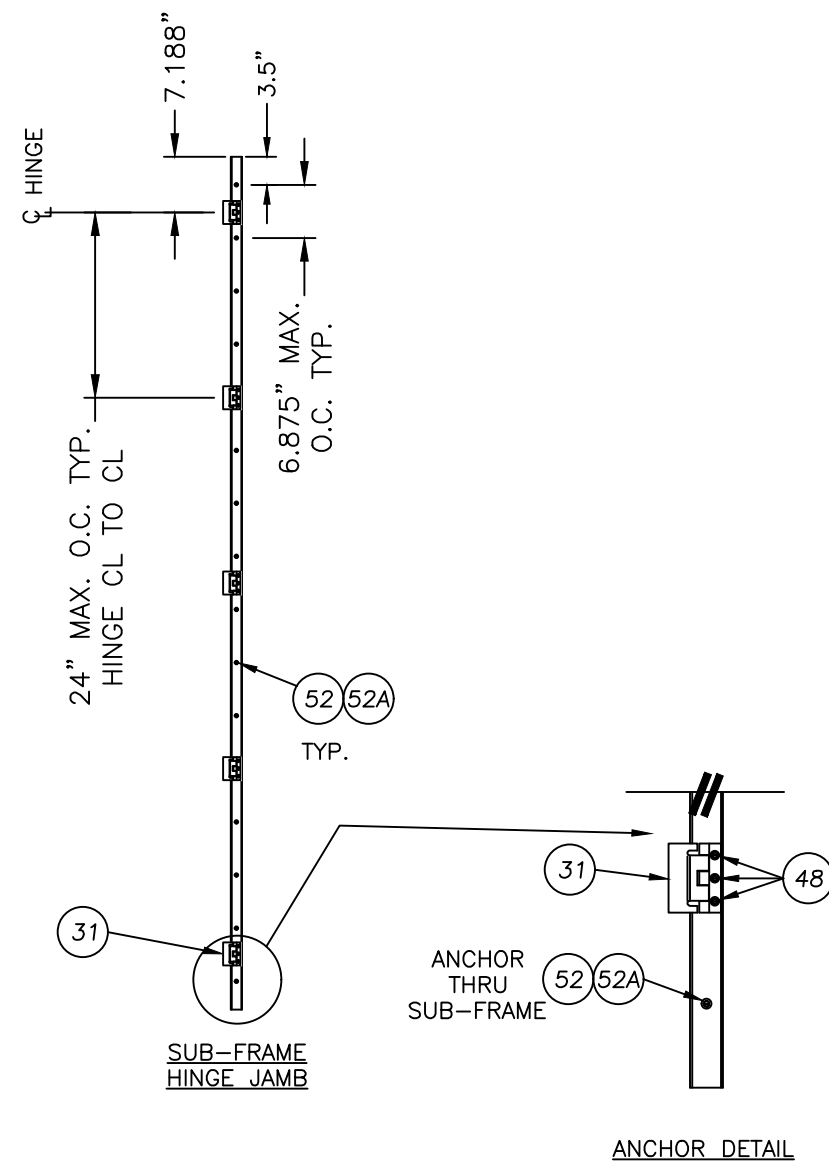
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SHEET 7 OF 12

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3. Concrete anchor table:

| ANCHOR TYPE      | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|------------------|-------------|----------------|--------------------------------|-----------------------------------|
| DeWALT ULTRACON® | 5/16"       | 1-1/4"         | 3-1/8"                         | 6"<br>(3-1/8" @ STRIKE)           |

|     |          |                     |        |         |
|-----|----------|---------------------|--------|---------|
|     |          |                     |        |         |
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| 1   | 12/10/13 | ADDED POROSITY D.P. | RATING | LFS     |
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SHEET 8 OF 12

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

**PRODUCT:** KANE SCREENS  
VAN GUARD II  
ALUMINUM HIRRICANE BARRIER

**PART OR ASSEMBLY:**  
REVEAL MOUNT ANCHORING  
MASONRY WALL

|     |          |                     |        |         |
|-----|----------|---------------------|--------|---------|
|     |          |                     |        |         |
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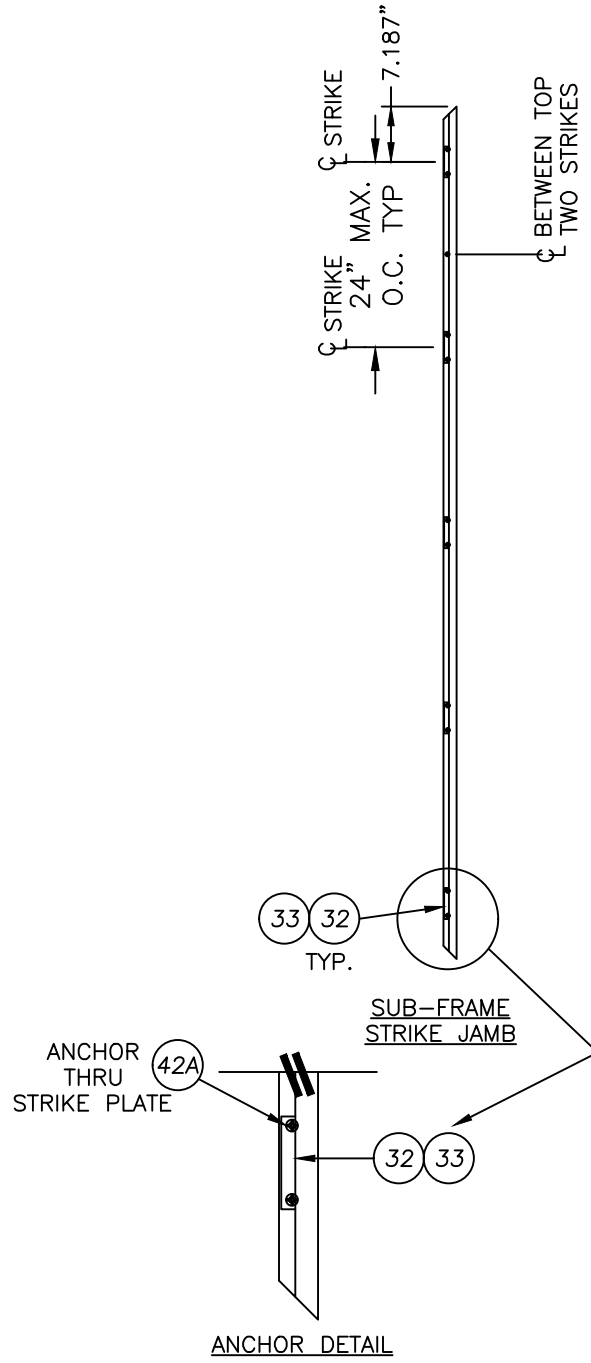
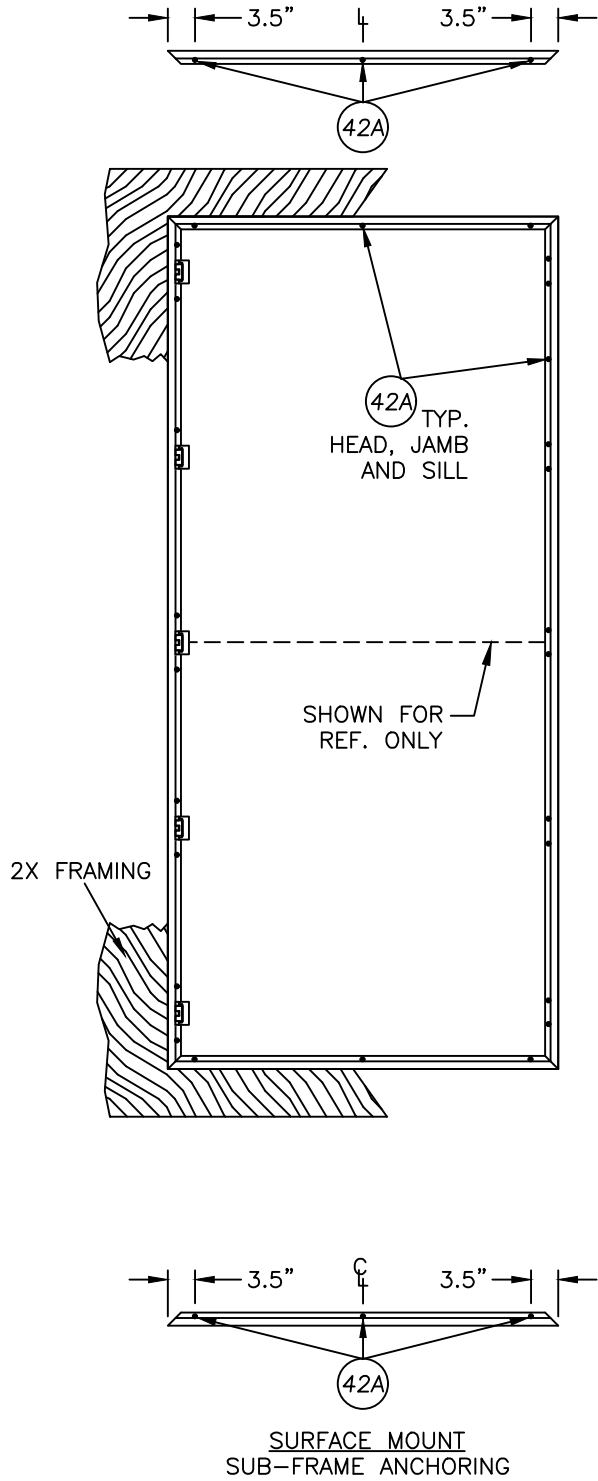
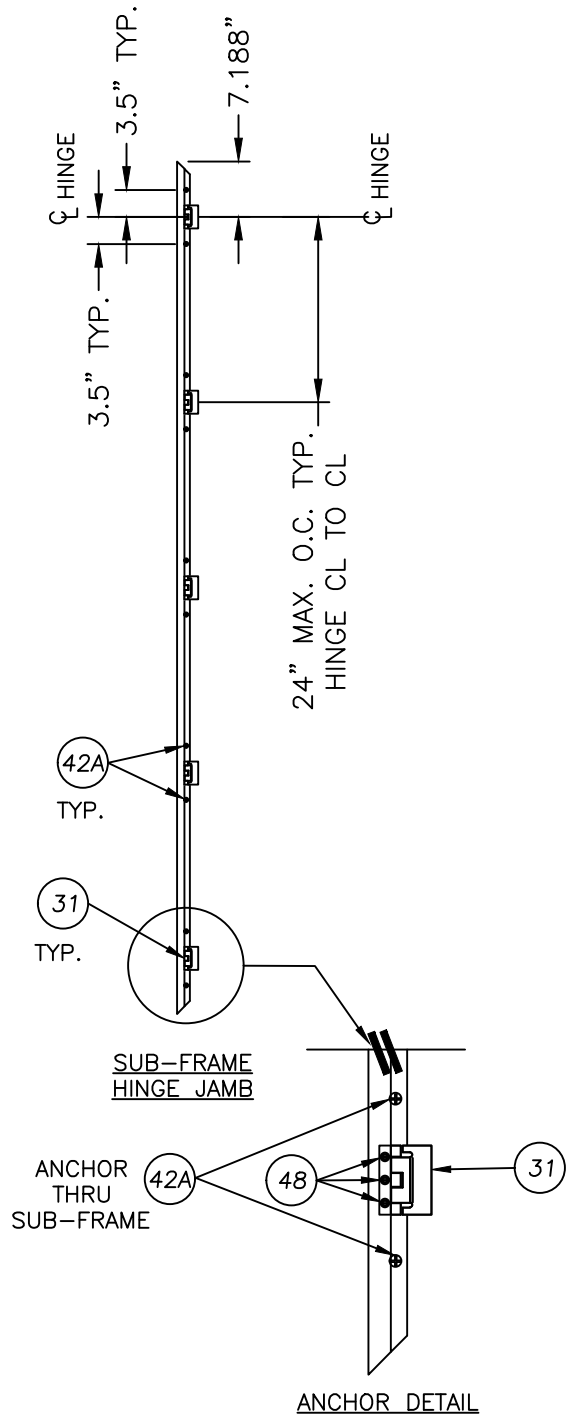
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SHEET 9 OF 12

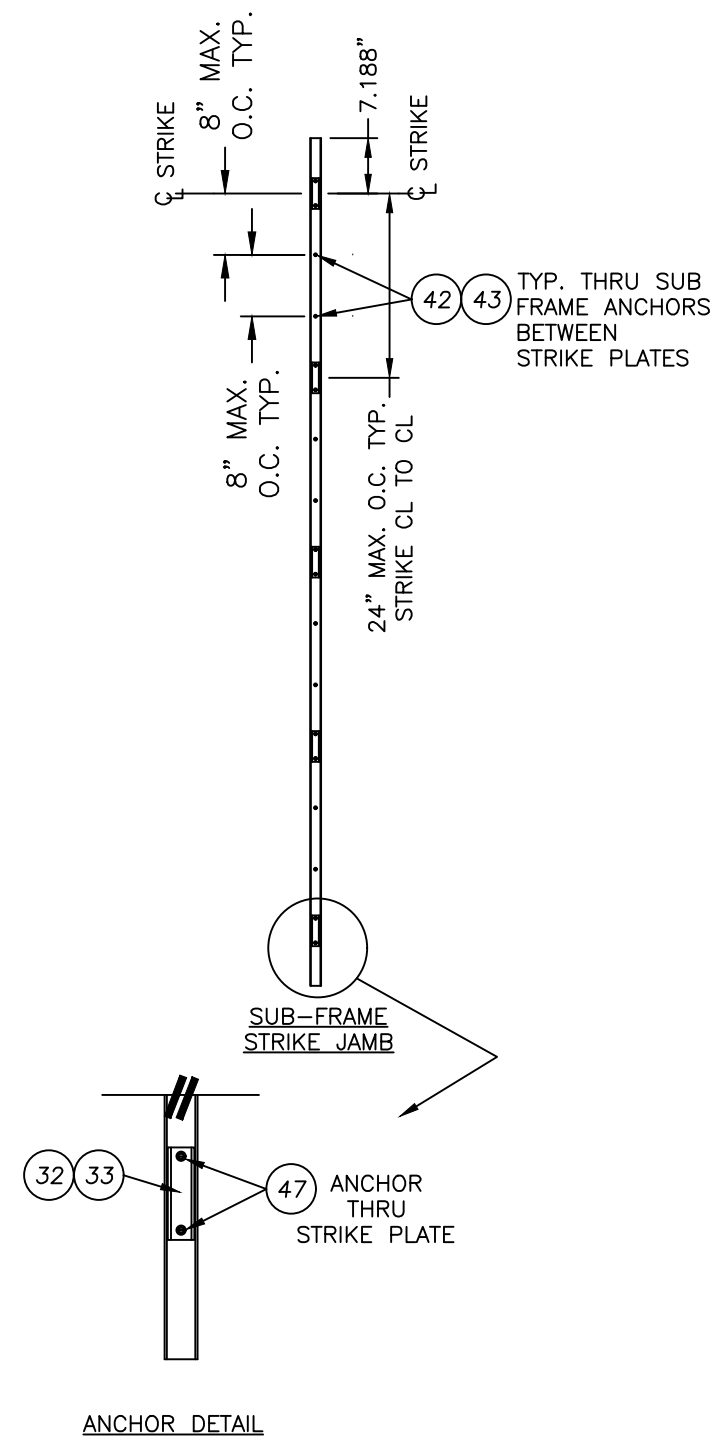
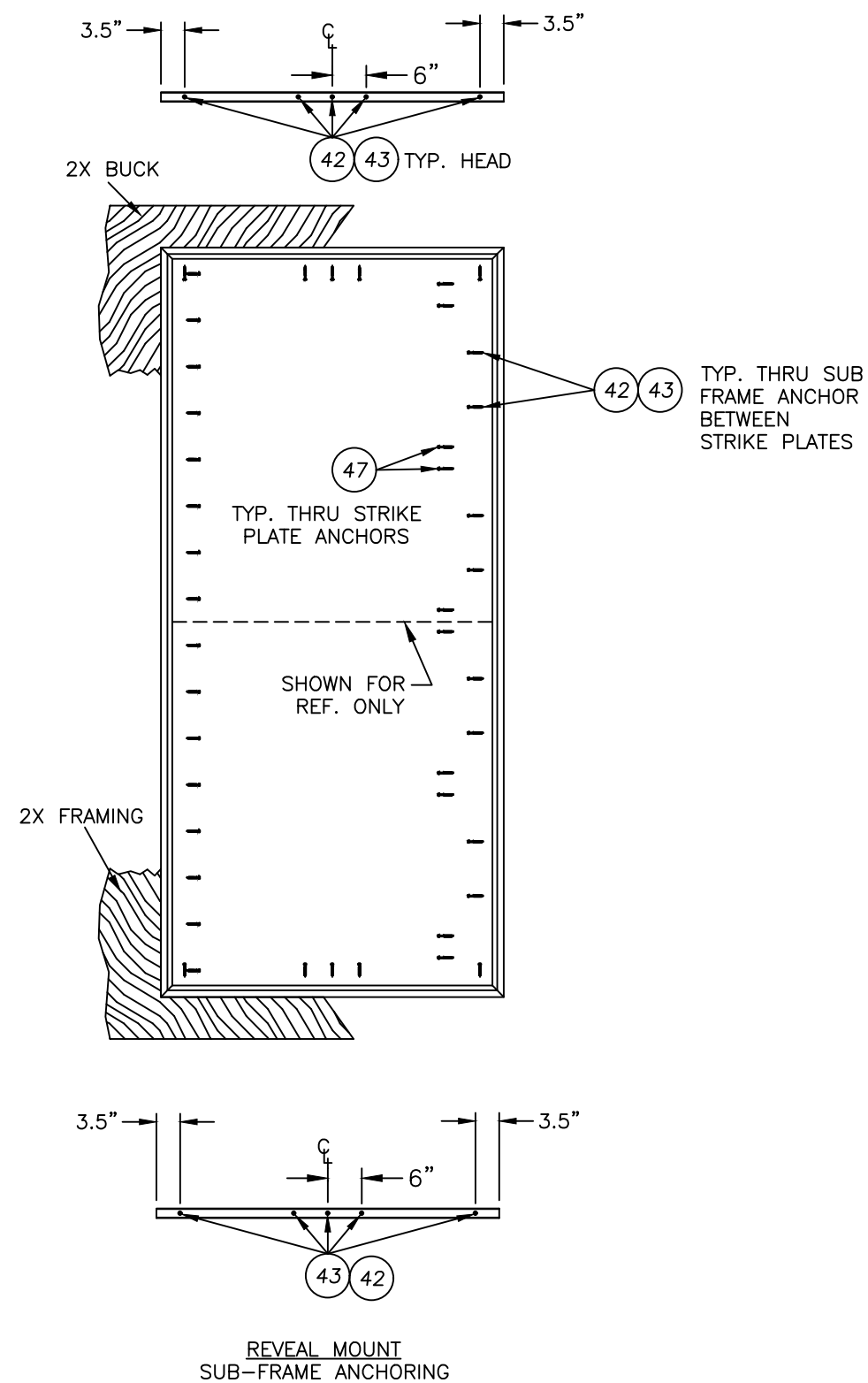
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Lyndon F. Schmidt  
P.E. No. 43409

PRODUCT: KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER

PART OR ASSEMBLY: SURFACE MOUNT ANCHORING  
2X WOOD FRAMING

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Phone No.: 813.659.9197  
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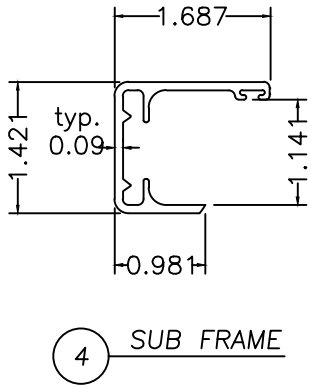
|     |          |                            |           |
|-----|----------|----------------------------|-----------|
|     |          |                            |           |
| 5   | 2/03/25  | UPDATE TO 8TH ED. (2023)   | FBC LFS   |
| 4   | 1/18/21  | UPDATE TO 7TH ED. (2020)   | FBC LFS   |
| 3   | 9/26/17  | UPDATE TO 6TH ED. (2017)   | FBC JK    |
| 2   | 7/01/15  | UPDATE TO 5th ED. (2014)   | FBC LFS   |
| 1   | 12/10/13 | ADDED POROSITY D.P. RATING | LFS       |
| NO. | DATE     |                            | BY        |
|     |          |                            | REVISIONS |

SHEET 10 OF 12

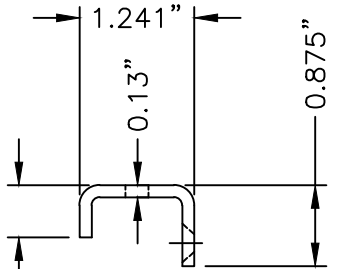
REVEAL MOUNT ANCHORING  
2X WOOD FRAMING

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

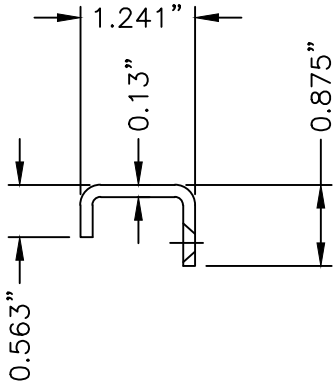
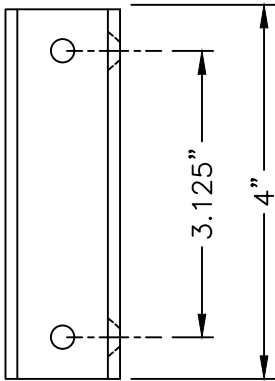
*RW* BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813



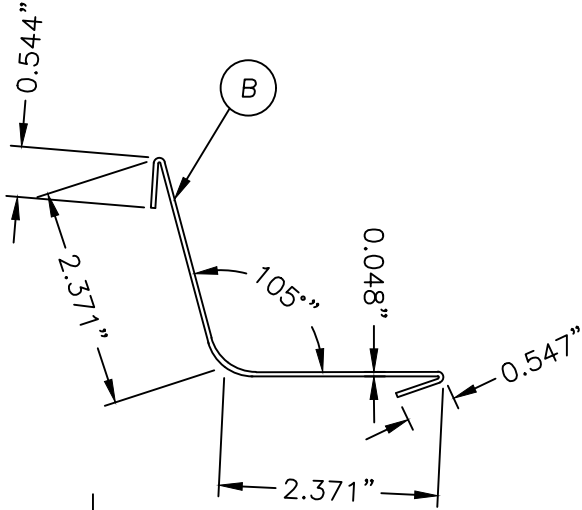
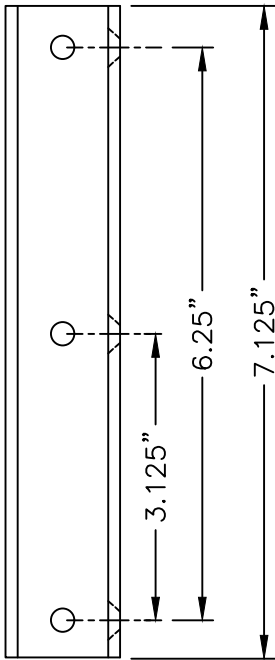
4 SUB FRAME



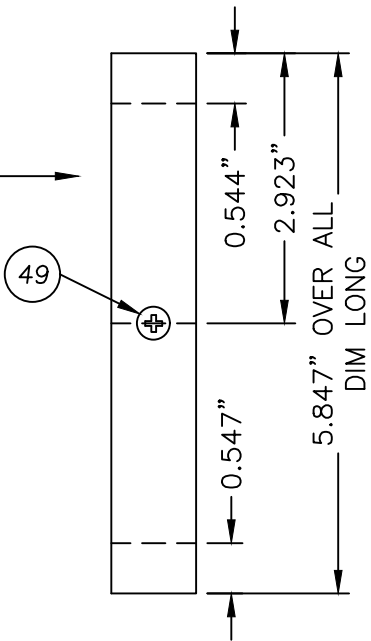
32 J STRIKE PLATE



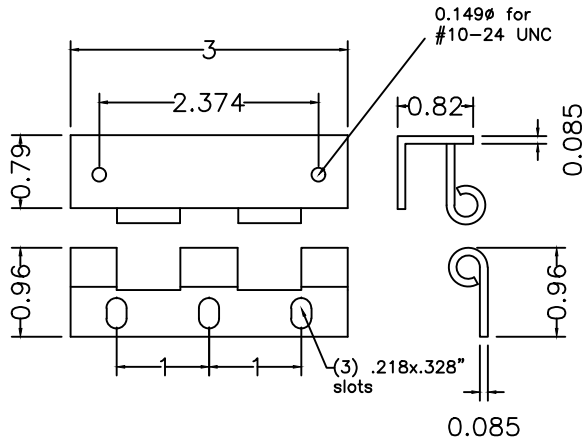
33 EXTENDED J STRIKE PLATE



B MAIN FRAME CORNER SIDE VIEW



B MAIN FRAME CORNER ANGLE WRAP



31 TYPICAL HINGE

DATE: 8/26/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-10238.1

SHEET 11 OF 12

| NO. | DATE     | REVISIONS                  |     |     |  |
|-----|----------|----------------------------|-----|-----|--|
|     |          |                            |     |     |  |
| 5   | 2/03/25  | UPDATE TO 8TH ED. (2023)   | FBC | LFS |  |
| 4   | 1/18/21  | UPDATE TO 7TH ED. (2020)   | FBC | LFS |  |
| 3   | 9/26/17  | UPDATE TO 6TH ED. (2017)   | FBC | JK  |  |
| 2   | 7/01/15  | UPDATE TO 5th ED. (2014)   | FBC | LFS |  |
| 1   | 12/10/13 | ADDED POROSITY D.P. RATING |     | LFS |  |
|     |          |                            |     | BY  |  |

PRODUCT:

KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER

PART OR ASSEMBLY:

COMPONENTS  
AND HARDWARE DETAILS

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

RW BUILDING CONSULTANTS, INC.

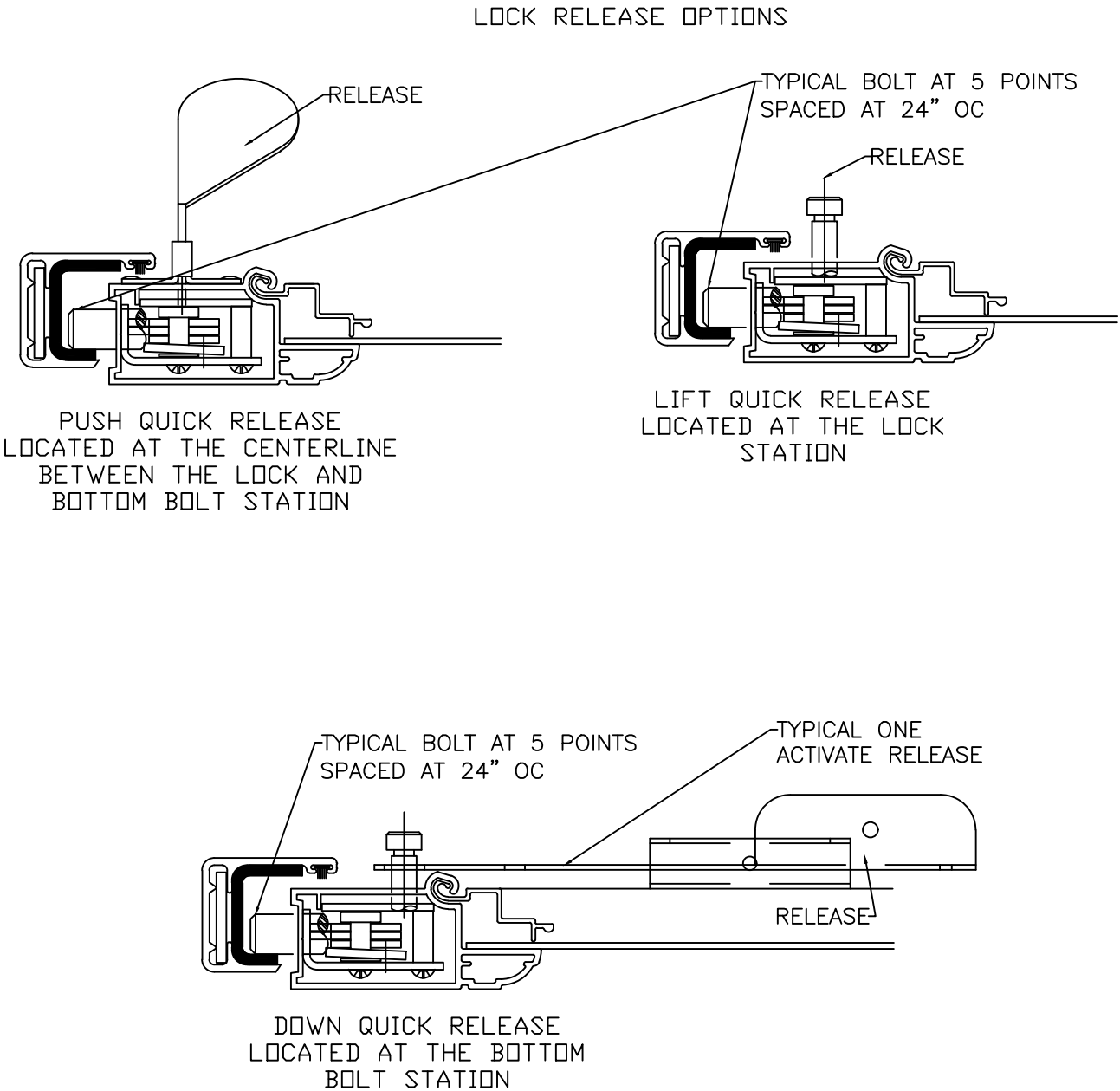
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

Z:\2023 FBC Drawings\Kane Mfg Corp\FL-10238 R8\FL-10238.1-2.dwg

| BILL OF MATERIALS (ANCHOR) |                                                     |           |
|----------------------------|-----------------------------------------------------|-----------|
| ITEM                       | DESCRIPTION                                         | MATERIAL  |
| S1                         | SCREEN DETAIL (STAINLESS STEEL)                     | STEEL     |
| X                          | 2X FRAMING (SG >= 0.55)                             | WOOD      |
| Y                          | HOLLOW BLOCK CMU (ASTM C90)                         | CONCRETE  |
| Z                          | CONCRETE MASONRY (3000 PSI MIN. – ACI 301)          | CONCRETE  |
| A                          | 1/4" MAX. SHIM                                      | WOOD      |
| B                          | MAIN FRAME CORNER ANGLE WRAP                        | STEEL     |
| 3                          | MAIN FRAME 6063-T6                                  | ALUMINUM  |
| 4                          | SUB FRAME 6063-T6                                   | ALUMINUM  |
| 5                          | HORIZONTAL BRACE 6063-T6                            | ALUMINUM  |
| 6                          | MAINFRAME COVER 6063-T6                             | ALUMINUM  |
| 7                          | MAIN FRAME CORNER KEY 6063-T6                       | ALUMINUM  |
| 8                          | MAIN FRAME SECONDARY CORNER KEY 6063-T6             | ALUMINUM  |
| 9                          | HORIZONTAL BRACE CORNER KEY 6063-T6                 | ALUMINUM  |
| 30                         | LOCK ASSEMBLY                                       | STEEL     |
| 31                         | HINGE ASSEMBLY (TYPE 304 STAINLESS STEEL)           | ST. STEEL |
| 32                         | J STRIKE PLATE (TYPE 304 STAINLESS STEEL)           | ST. STEEL |
| 33                         | EXTENDED J STRIKE PLATE (TYPE 304 STAINLESS STEEL)  | ST. STEEL |
| 40                         | #8 X 1" SQ DRIVE PAN HEAD SMS                       | ST. STEEL |
| 41                         | #8 X 1/2 SELF-TAP SQ HEAD SMS                       | ST. STEEL |
| 42                         | #14 X 2" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)     | STEEL     |
| 42A                        | #14 X 2-1/2" PFH WOOD SCREW (1-3/4" MIN. EMBEDMENT) | STEEL     |
| 43                         | #14 X 2" PAN HEAD SMS (1-1/2" MIN. EMBEDMENT)       | STEEL     |
| 44                         | 1/4" X 1-3/4" HWH ITW TAPCON CONCRETE SCREW         | STEEL     |
| 45                         | 1/4" X 1-3/4" PFH ITW TAPCON CONCRETE SCREW         | STEEL     |
| 46                         | 1/4" X 2-1/4" HWH ITW TAPCON CONCRETE SCREW         | STEEL     |
| 46A                        | 1/4" X 2-1/4" PFH ITW TAPCON CONCRETE SCREW         | STEEL     |
| 47                         | #14 X 2-1/2" PFH WOOD SCREW (1-5/8" MIN. EMBEDMENT) | STEEL     |
| 48                         | #10 X 3/8" SELF-TAP HWH-SLOTTED SCREW               | STEEL     |
| 50                         | #10 X 1-1/4" SELF DRILLING TAPPING SCREW            | ST. STEEL |
| 51                         | #10 X 3/8" THREAD CUTTING SCREW                     | ST. STEEL |
| 52                         | 5/16" X 1-3/4" HWH DeWALT ULTRACON CONCRETE SCREW   | STEEL     |
| 52A                        | 5/16" X 1-3/4" PFH DeWALT ULTRACON CONCRETE SCREW   | STEEL     |
| 53                         | 5/16" X 2-1/4" PFH DeWALT ULTRACON CONCRETE SCREW   | STEEL     |

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 3/4" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



|                                                               |          |                                                                                             |     |                                             |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |
|---------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------|-----|---------------------------------------------|--|----------|--|---------------|--|---------------|--|-------------|--|--------------|--|----------------------------|--|----------------|--|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |          | PRODUCT:<br>KANE SCREENS<br>VAN GUARD II<br>ALUMINUM HURRICANE BARRIER<br>PART OR ASSEMBLY: |     | BILL OF MATERIALS &<br>LOCK RELEASE OPTIONS |  | REVISONS |  | DATE: 8/26/13 |  | SCALE: N.T.S. |  | DWG. BY: JK |  | CHK. BY: LFS |  | DRAWING NO.:<br>FL-10238.1 |  | SHEET 12 OF 12 |  |
|                                                               |          |                                                                                             |     |                                             |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |
| 5                                                             | 2/03/25  | UPDATE TO 8TH ED. (2023)                                                                    | FBC | LFS                                         |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |
| 4                                                             | 1/18/21  | UPDATE TO 7TH ED. (2020)                                                                    | FBC | LFS                                         |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |
| 3                                                             | 9/26/17  | UPDATE TO 6TH ED. (2017)                                                                    | FBC | JK                                          |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |
| 2                                                             | 7/01/15  | UPDATE TO 5th ED. (2014)                                                                    | FBC | LFS                                         |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |
| 1                                                             | 12/10/13 | ADDED POROSITY D.P. RATING                                                                  |     | LFS                                         |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |
|                                                               | NO.      | DATE                                                                                        |     | BY                                          |  |          |  |               |  |               |  |             |  |              |  |                            |  |                |  |

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