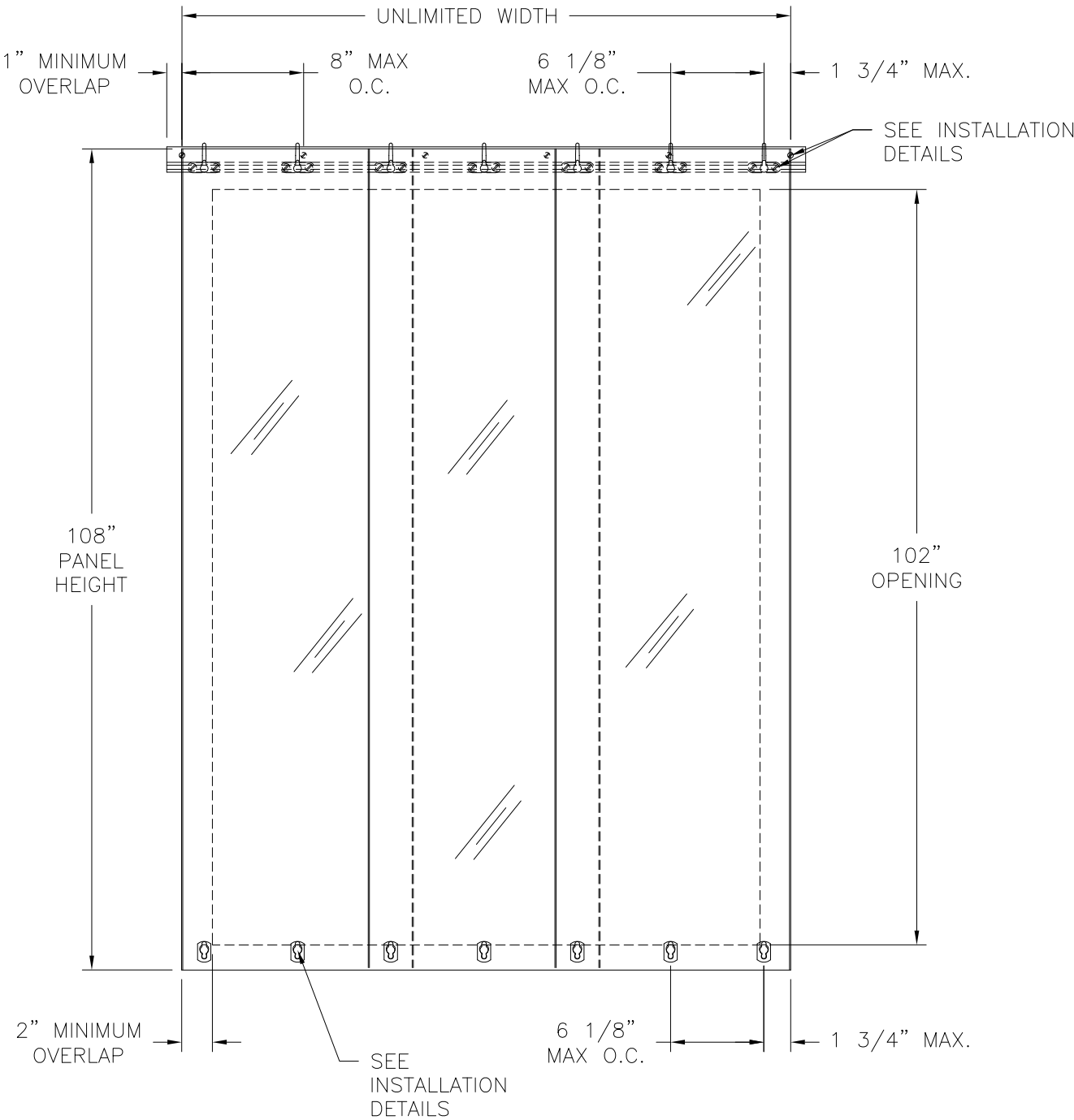


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.



- NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
 2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
 3. WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.
 4. PANEL MATERIAL: CORRUGATED POLYCARBONATE.
 5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
 6. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 7. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 8. FOR ANCHORING INTO BRICK VENEER USE PANELMATE TVAS WITH 2" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 9. ALL FASTENERS TO BE CORROSION RESISTANT.
 10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - 10.1. WOOD: MINIMUM SPECIFIC GRAVITY OF $G=0.42$
 - 10.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 10.3. MASONRY: GROUT FILLED BLOCK PER ASTM C90 WITH $F_m=2,000$ PSI MINIMUM.
 11. SEPARATION FROM GLASS MUST BE 10 1/4" MINIMUM.
 12. BUILD UP PROFILES MAY BE COMBINED TO ACHIEVE DESIRED SEPARATION FROM OPENING.

STORM SHUTTER TYPE A
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
± 50 PSF	LARGE AND SMALL MISSILE IMPACT

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES AND ELEVATION
2 – 9	INSTALLATION DETAILS
10	COMPONENTS

VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE A
IMPACT
ELEVATION AND NOTES

DRAWN:
R.L.

DWG NO.
08-01260

REV
D

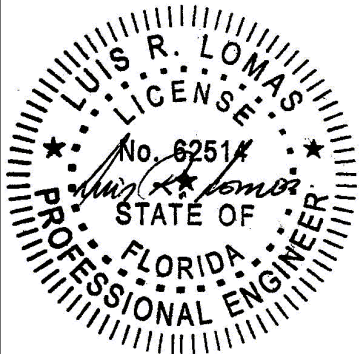
SCALE
NTS

DATE
06/20/11

SHEET
1 OF 10

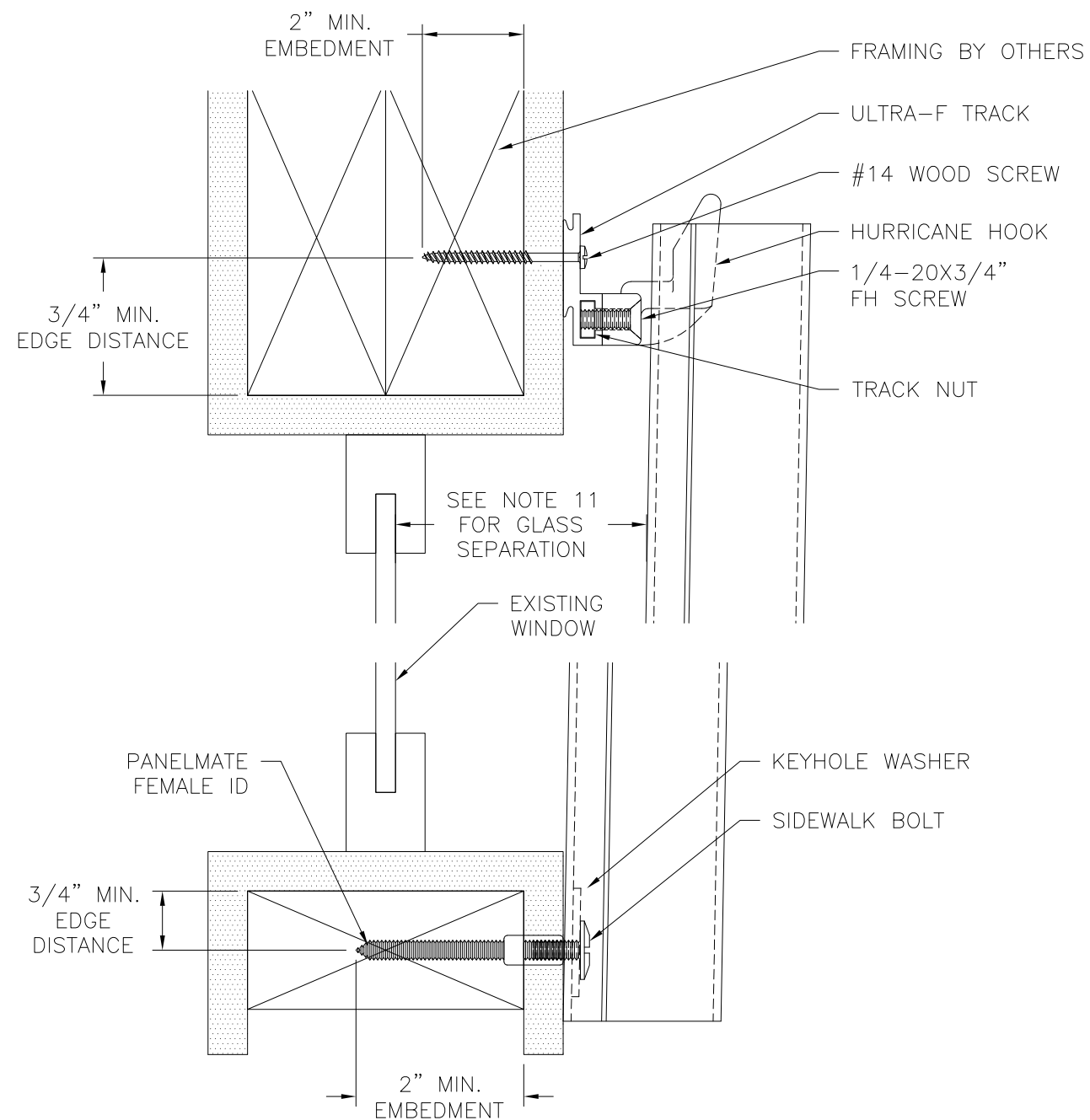
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/29/2024

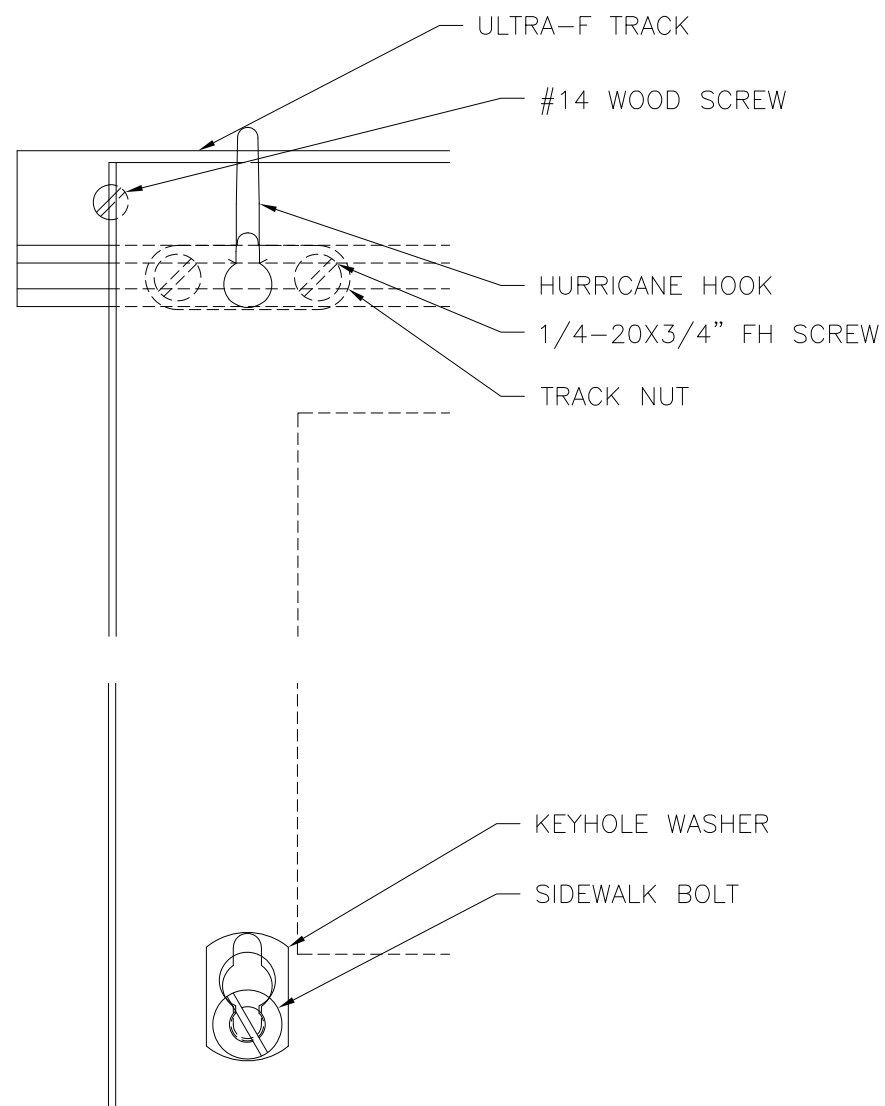


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.

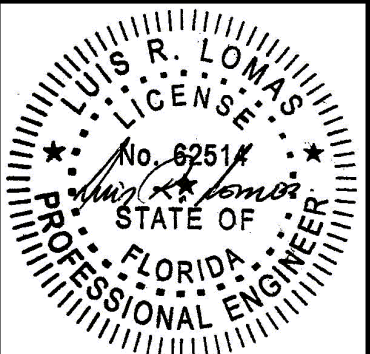


VERTICAL CROSS SECTION
WOOD FRAMING INSTALLATION
PANEL TO OVERLAP OPENING
2 1/4" MIN. AT HEAD AND SILL



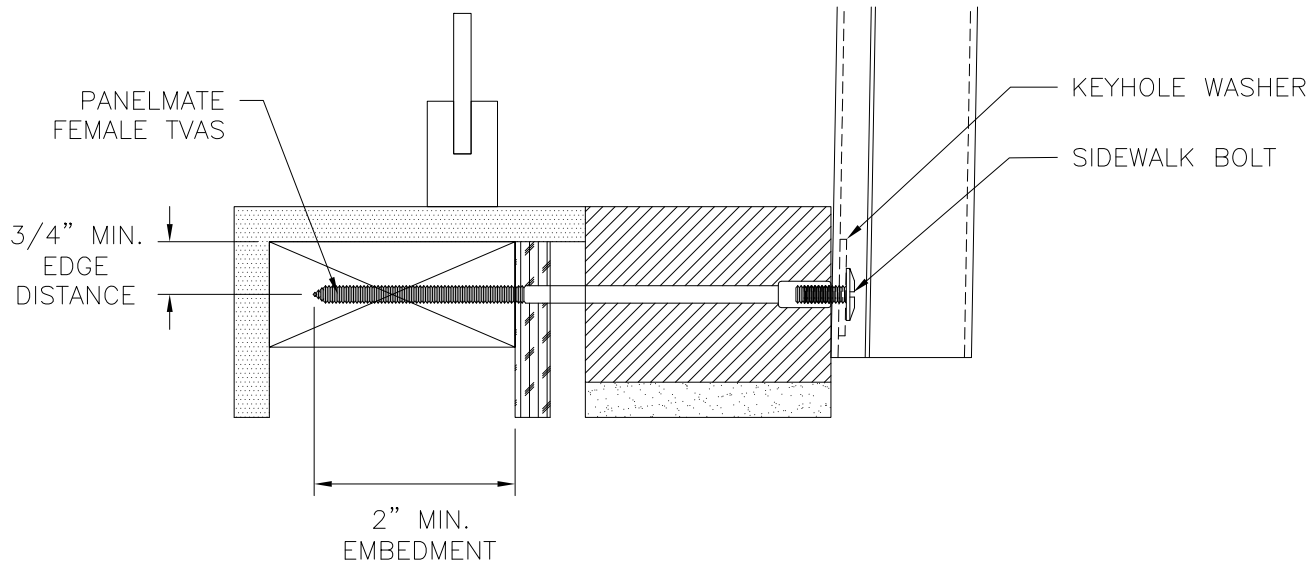
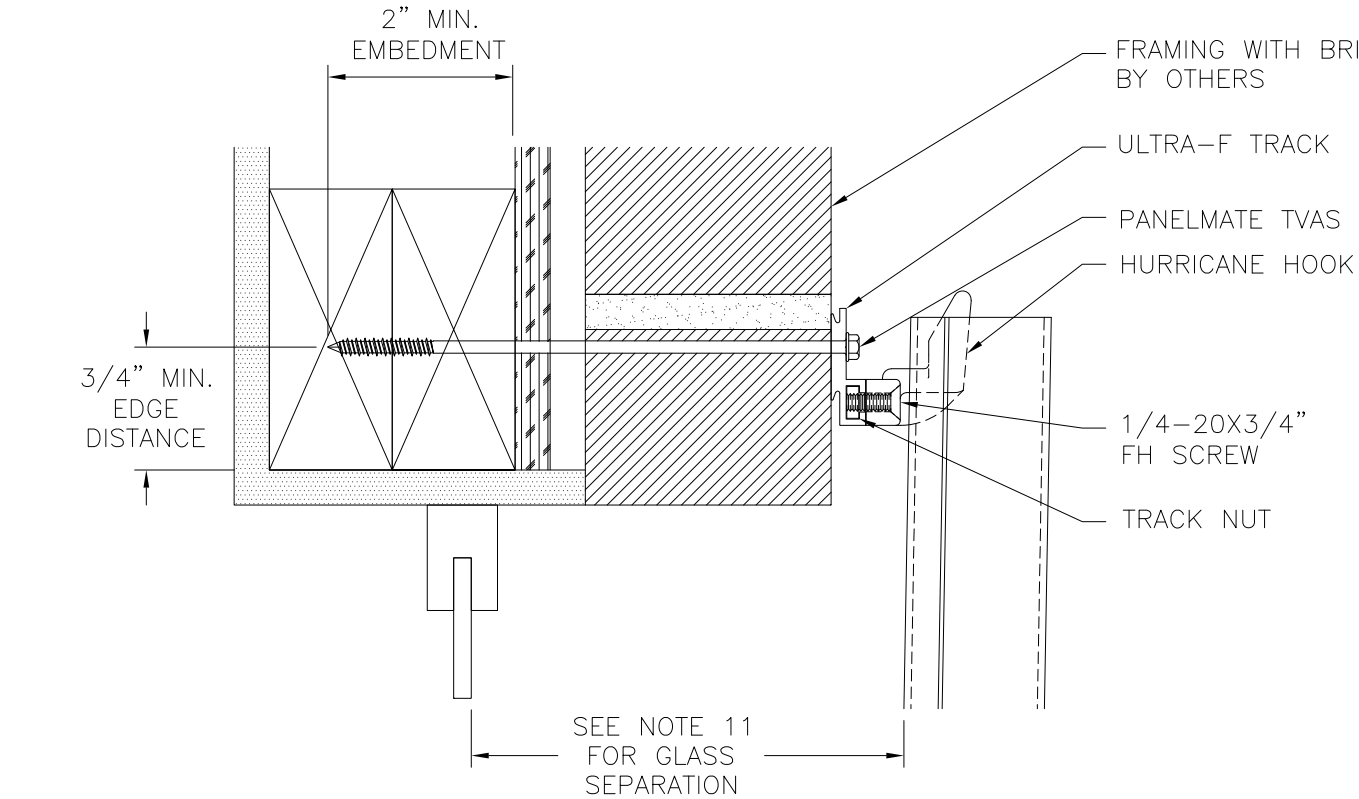
SIGNED: 08/29/2024

VUSAFE INDUSTRIES, LLC. 350 KIDDS HILL ROAD HYANNIS, MA 02601		
STORM SHUTTER TYPE A IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 2 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

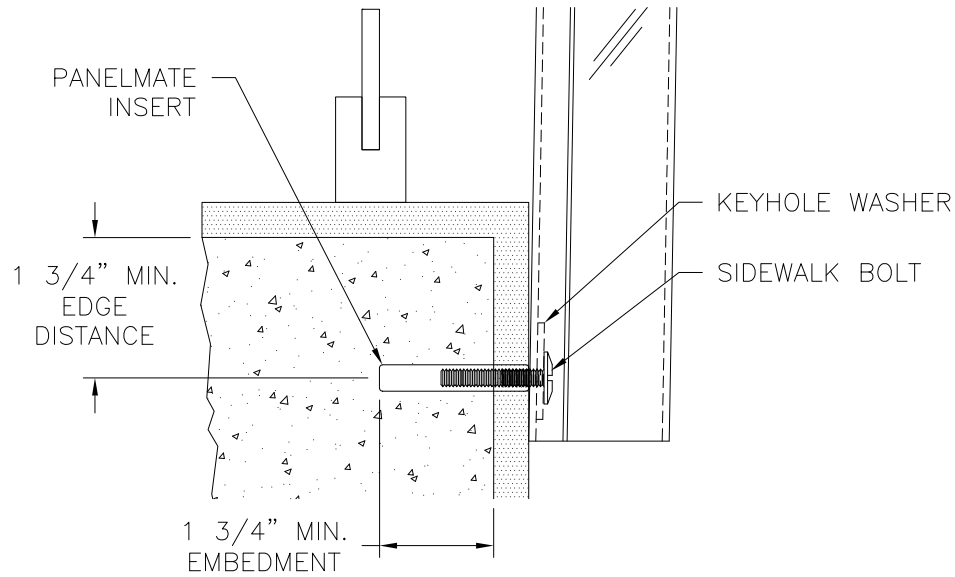
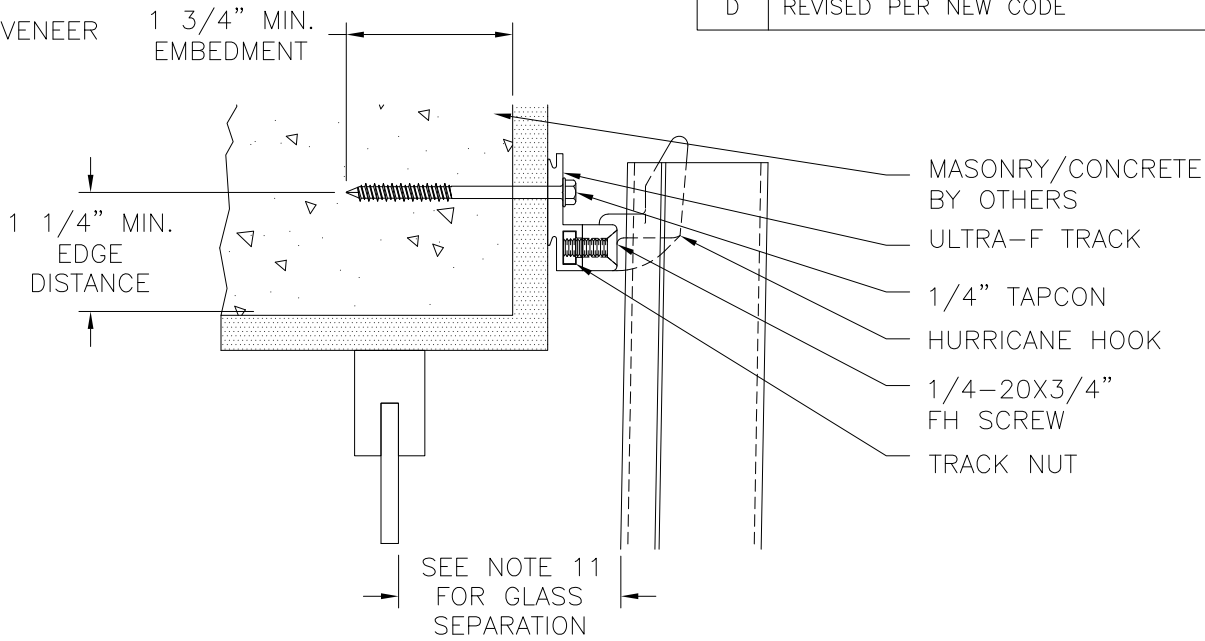


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.



VERTICAL CROSS SECTION
 BRICK VENEER INSTALLATION
 PANEL TO OVERLAP OPENING
 2 1/4" MIN. AT HEAD AND SILL



VERTICAL CROSS SECTION
 MASONRY/CONCRETE INSTALLATION
 PANEL TO OVERLAP OPENING
 2 1/4" MIN. AT HEAD AND SILL

SIGNED: 08/29/2024

VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE A
IMPACT
INSTALLATION DETAILS

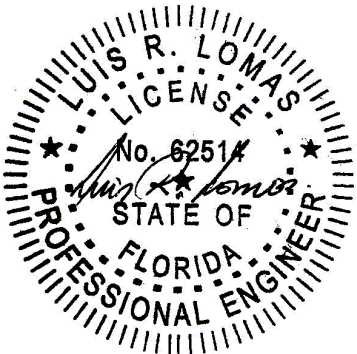
DRAWN:
R.L.

DWG NO.
08-01260

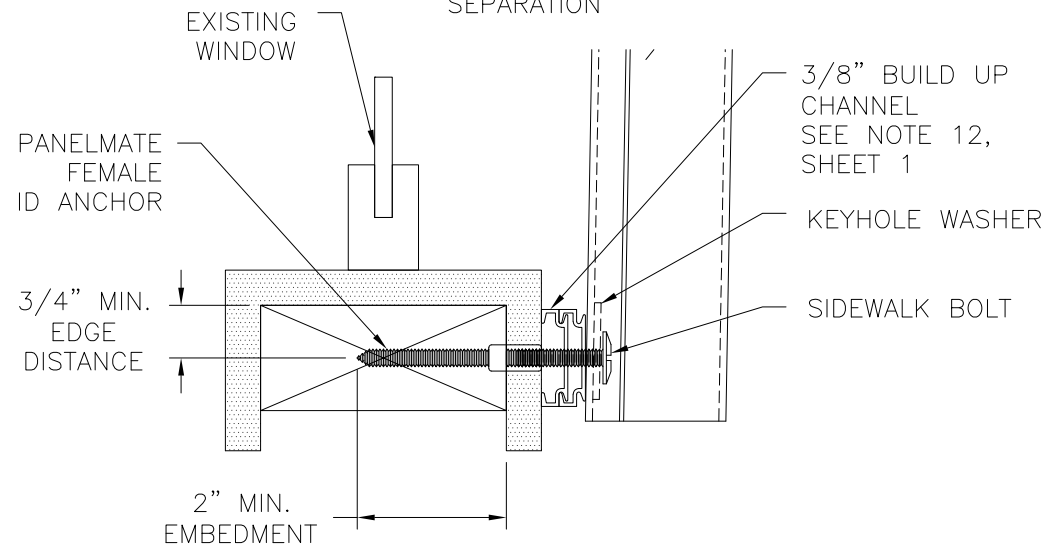
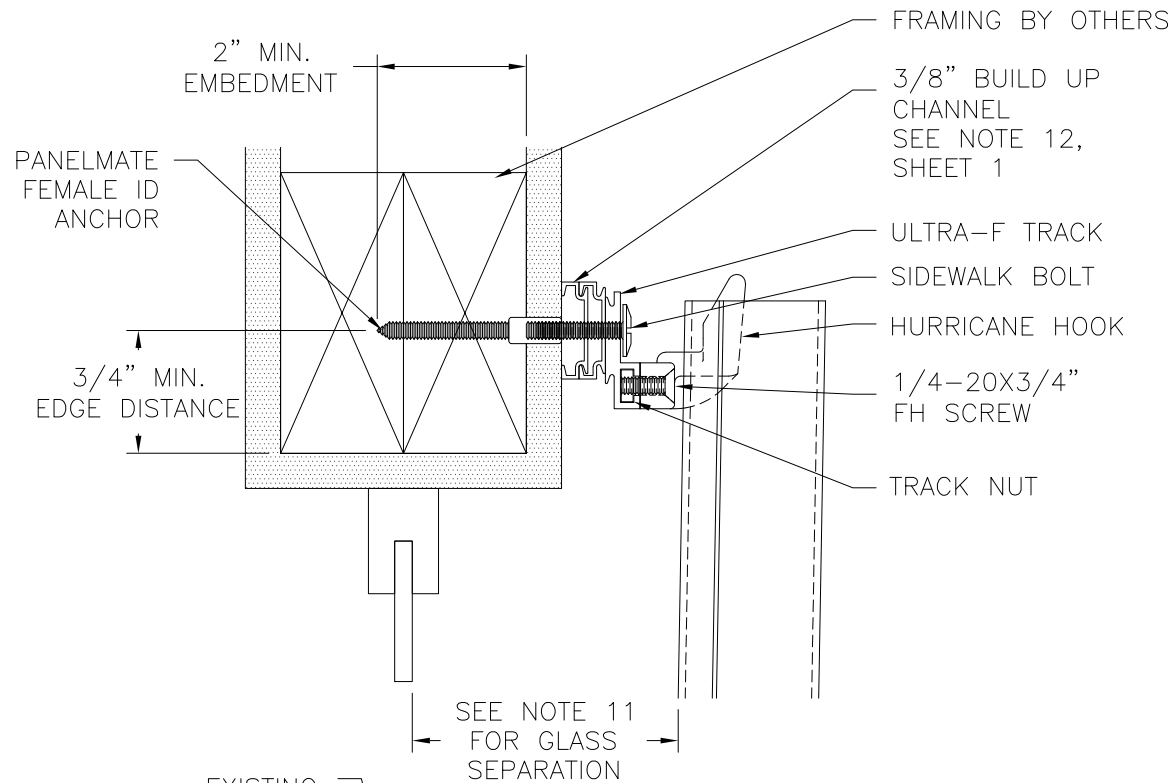
REV
D

SCALE NTS
DATE 06/20/11
SHEET 3 OF 10

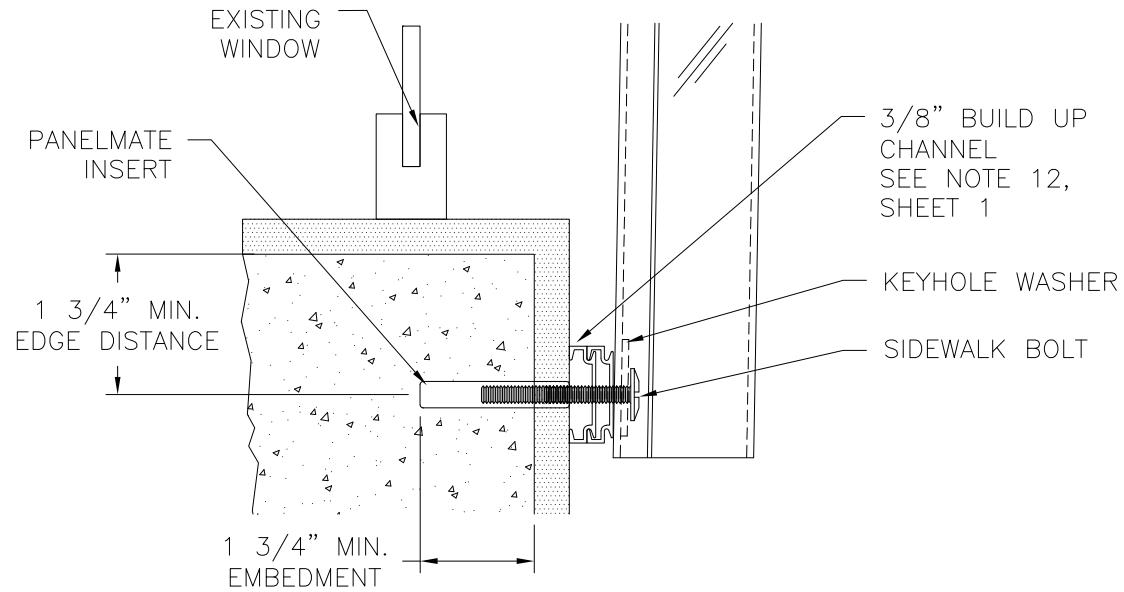
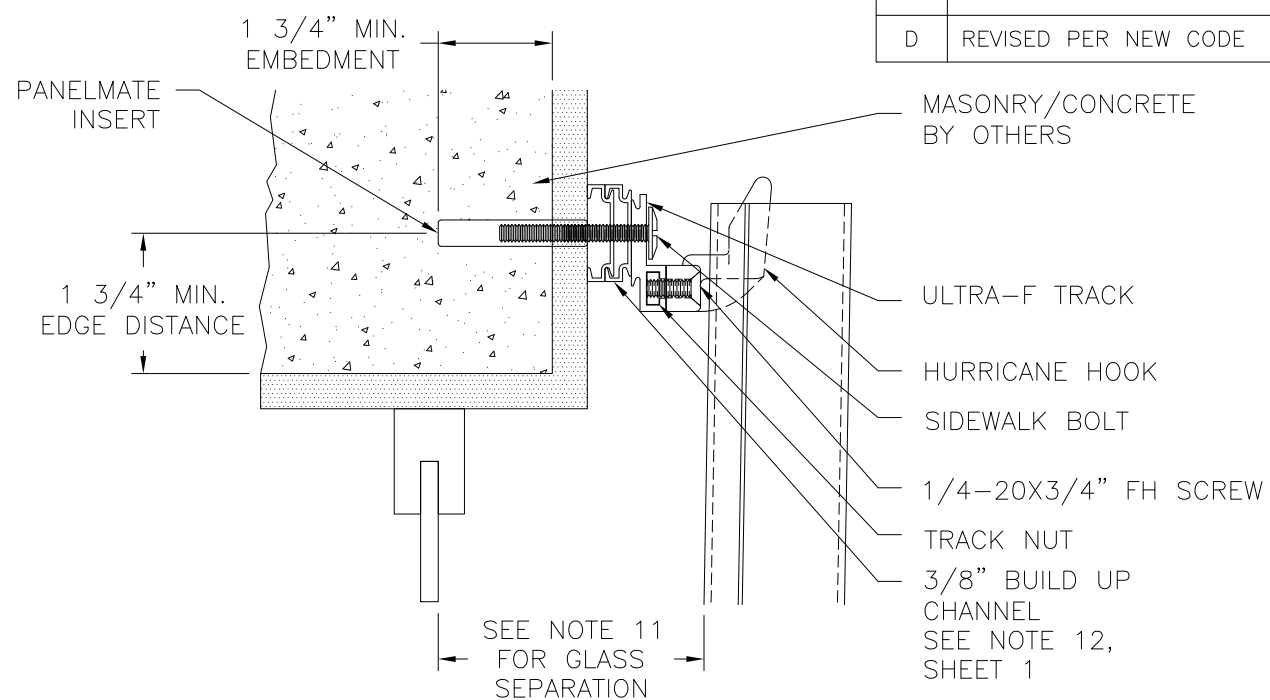
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
 FL No.: 62514



VERTICAL CROSS SECTION
WOOD INSTALLATION
WITH (2) 3/8" BUILD UP



VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
WITH (2) 3/8" BUILD UP

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.

VUSAFE INDUSTRIES, LLC.

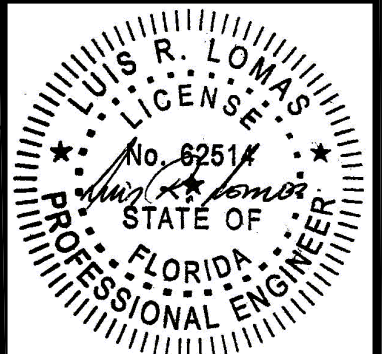
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE A
IMPACT
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 4 OF 10

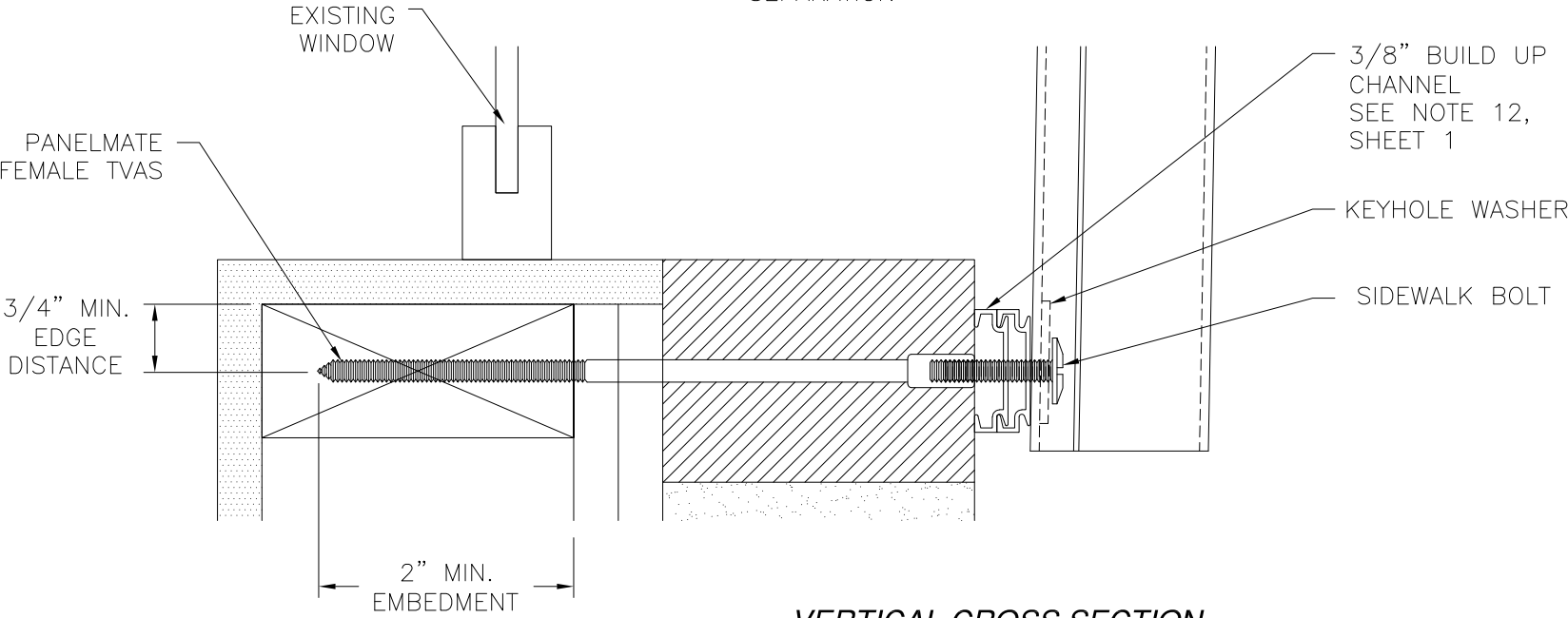
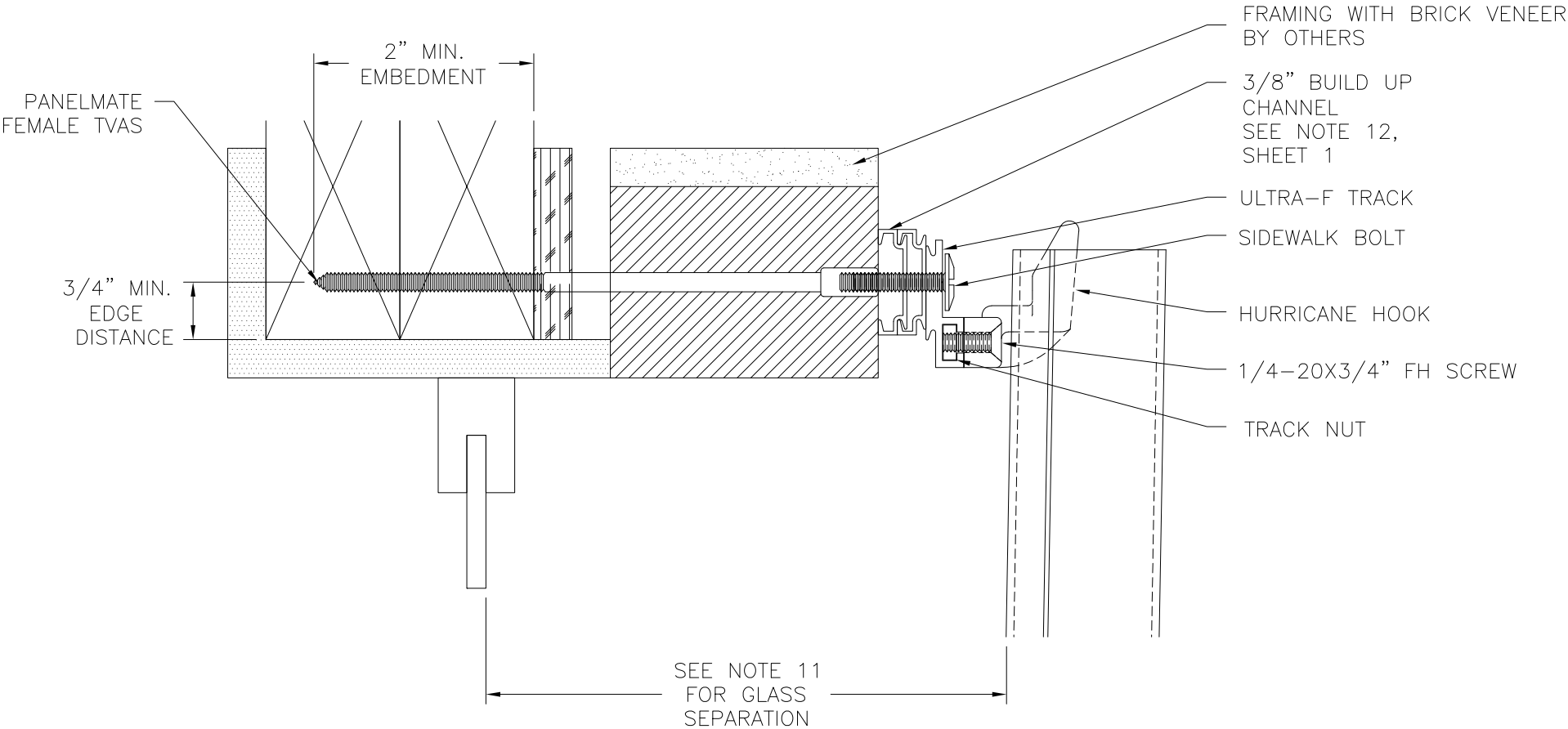
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/29/2024



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.



VERTICAL CROSS SECTION
BRICK VENEER INSTALLATION
WITH (2) 3/8" BUILD UP

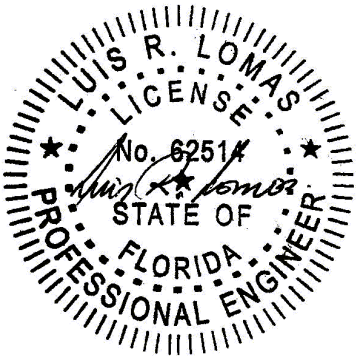
VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE A
IMPACT
INSTALLATION DETAILS

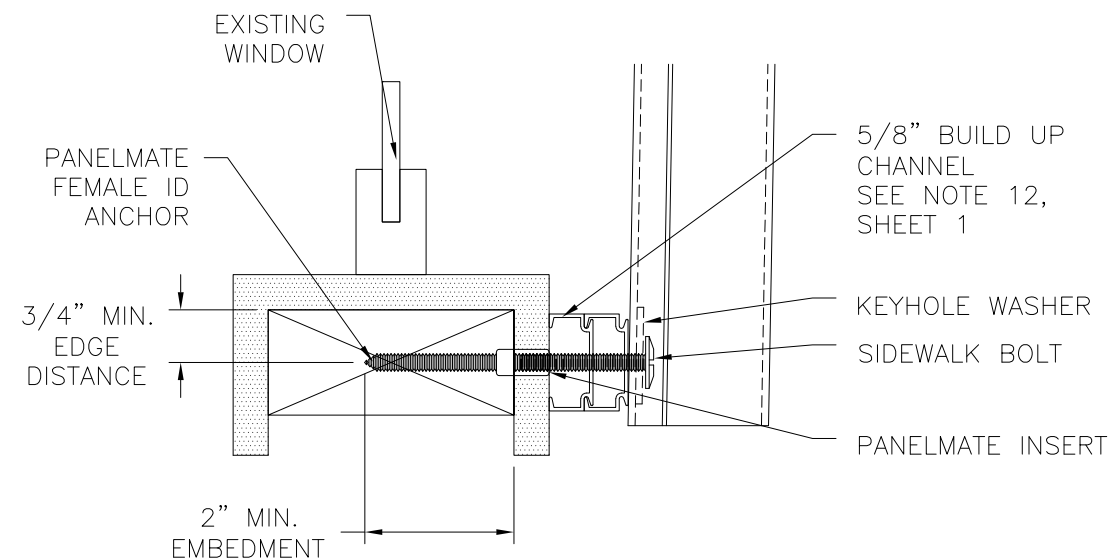
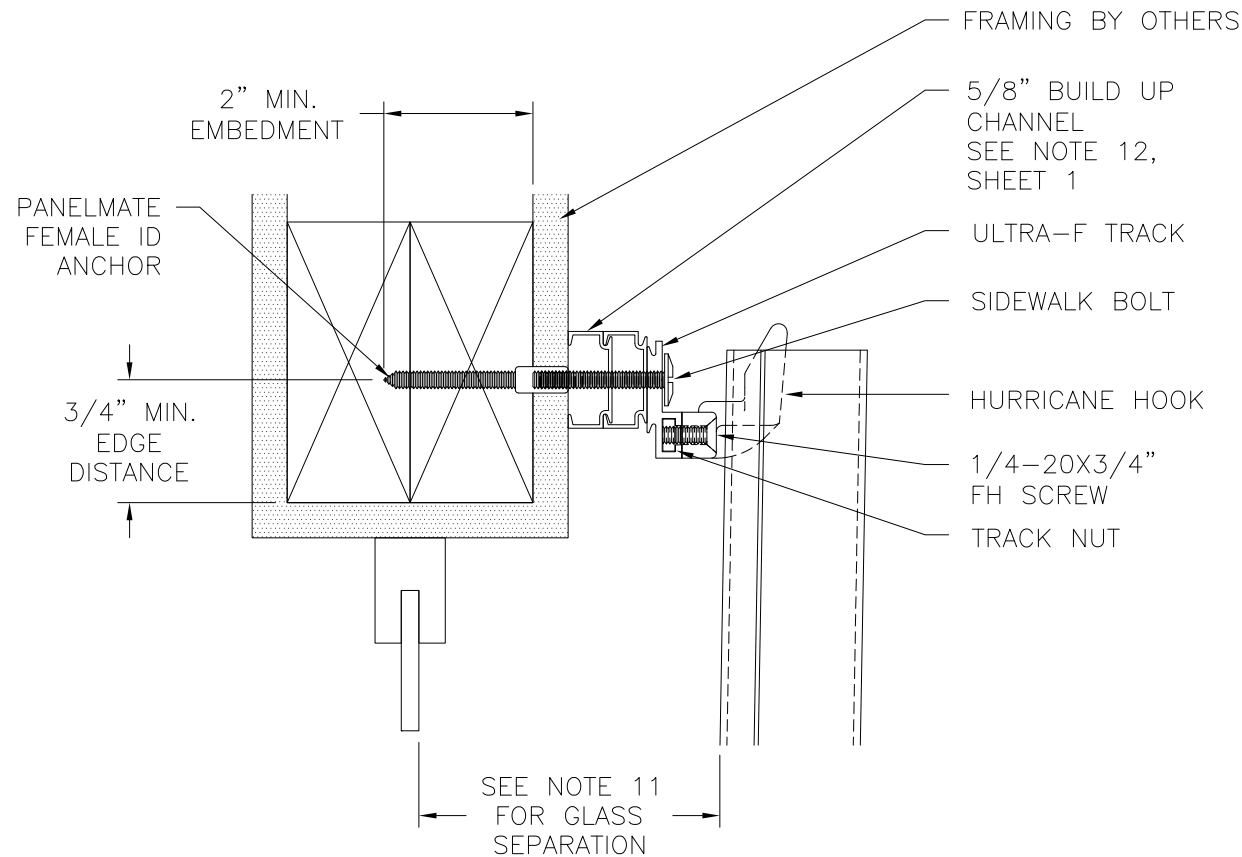
DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 5 OF 10

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

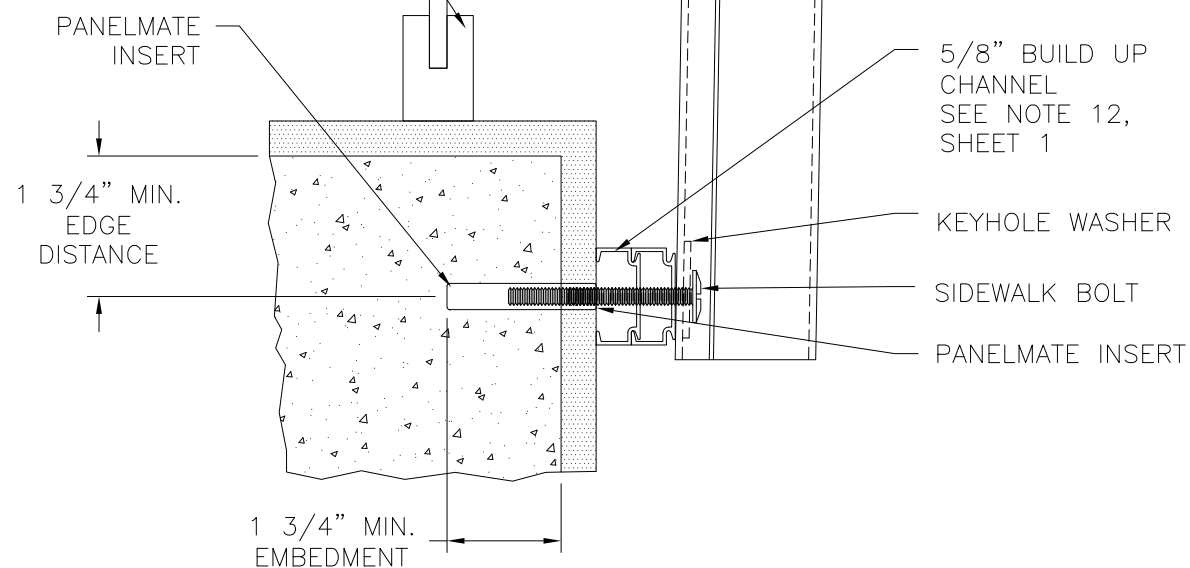
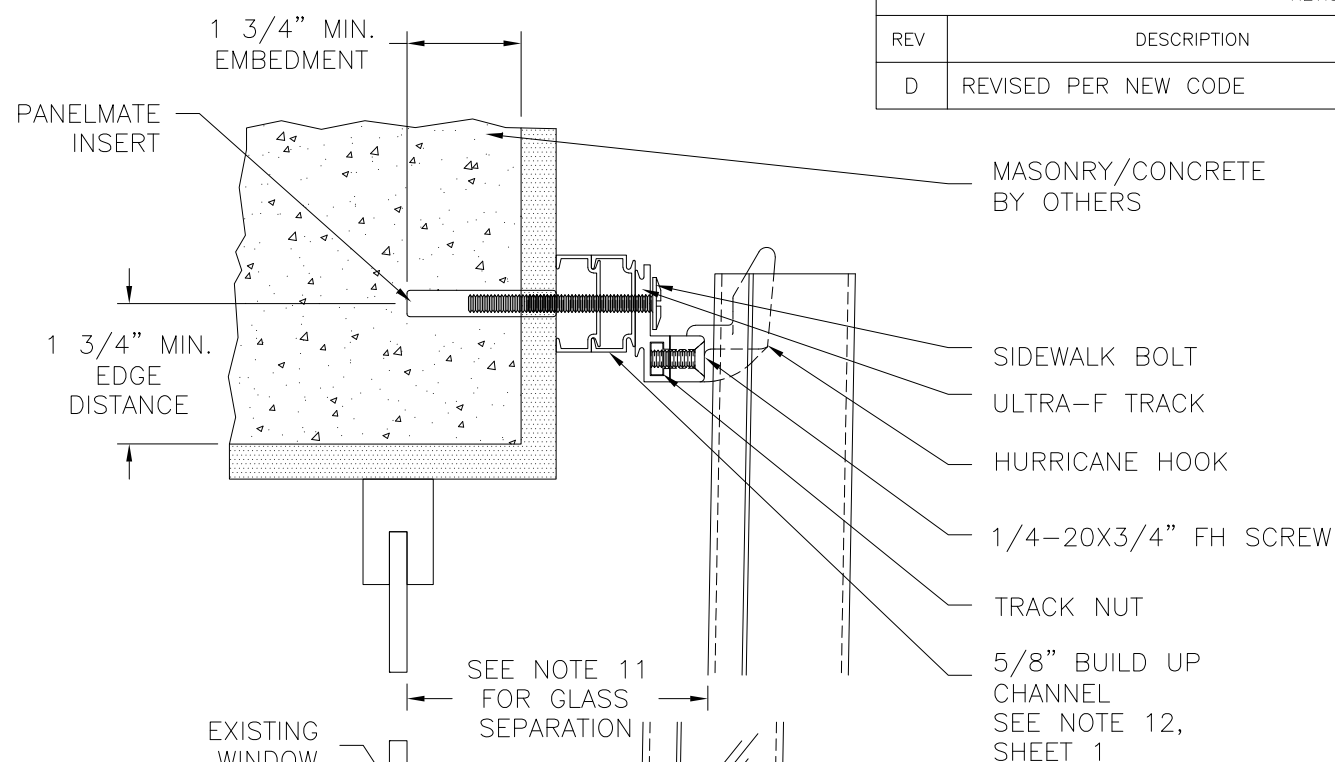
SIGNED: 08/29/2024



Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
WOOD INSTALLATION
WITH (2) 5/8" BUILD UP



VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
WITH (2) 5/8" BUILD UP

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.

VUSAFE INDUSTRIES, LLC.

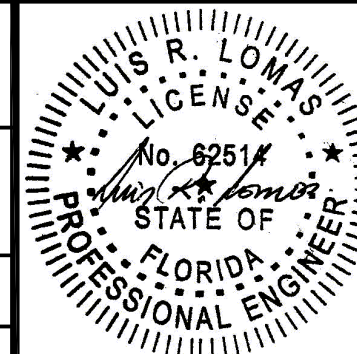
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE A
IMPACT
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 6 OF 10

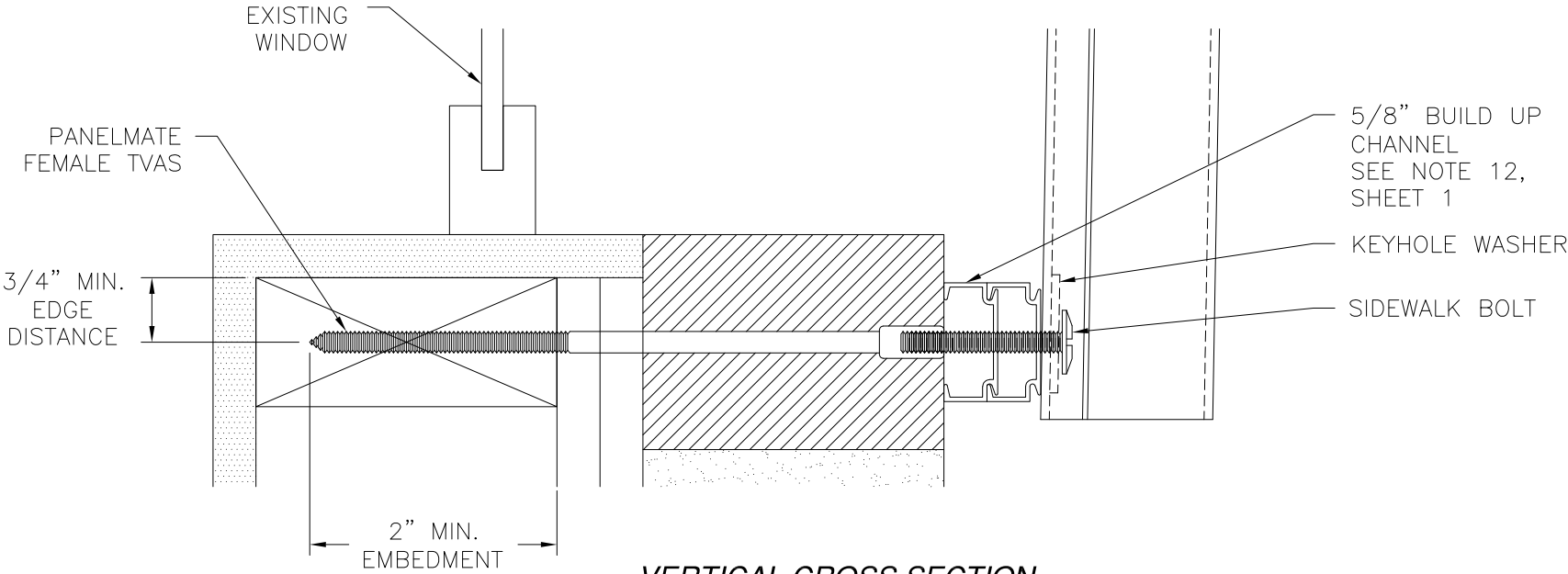
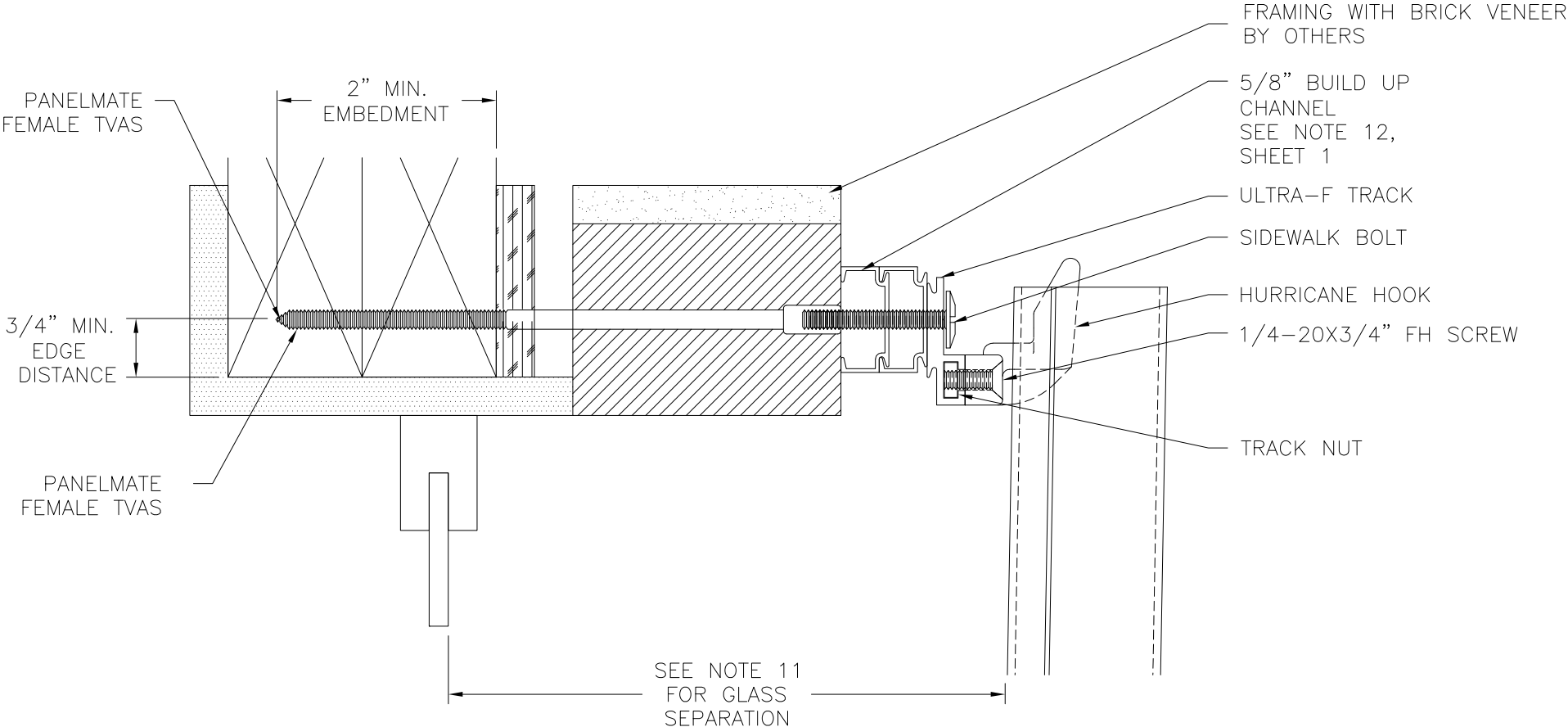
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

SIGNED: 08/29/2024



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.



VERTICAL CROSS SECTION
BRICK VENEER INSTALLATION
WITH (2) 5/8" BUILD UP

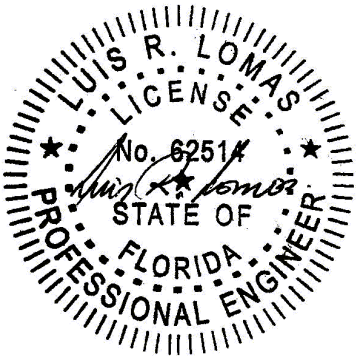
SIGNED: 08/29/2024

VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

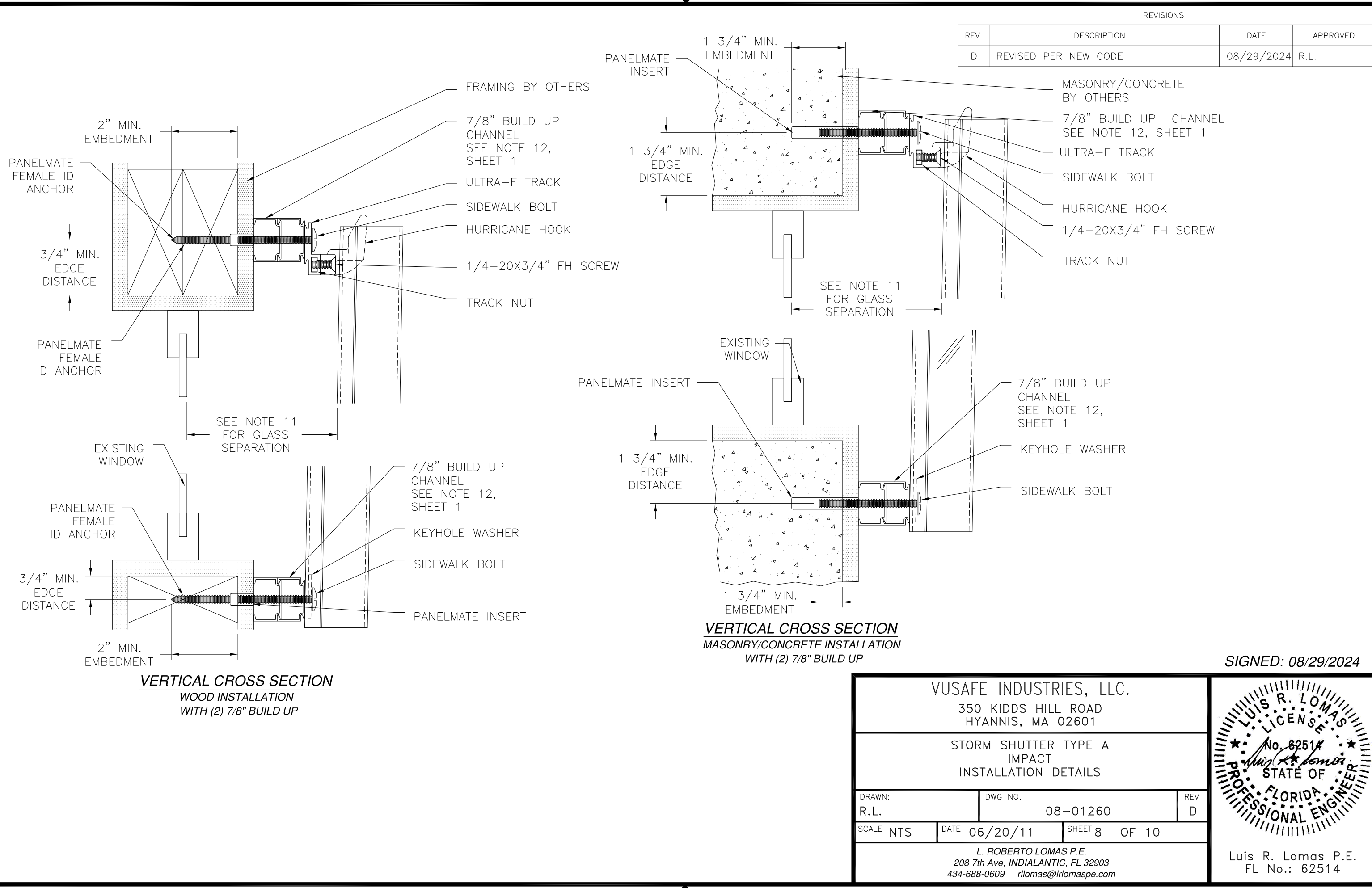
STORM SHUTTER TYPE A
IMPACT
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 7 OF 10

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
FL No.: 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.

VERTICAL CROSS SECTION
WOOD INSTALLATION
WITH (2) 7/8" BUILD UP

VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION
WITH (2) 7/8" BUILD UP

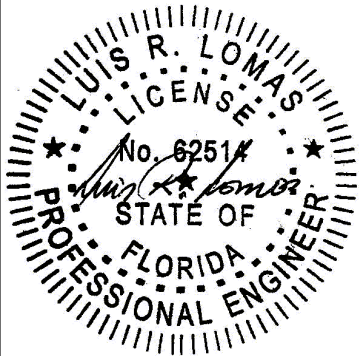
SIGNED: 08/29/2024

VUSAFE INDUSTRIES, LLC.
350 KIDDS HILL ROAD
HYANNIS, MA 02601

STORM SHUTTER TYPE A
IMPACT
INSTALLATION DETAILS

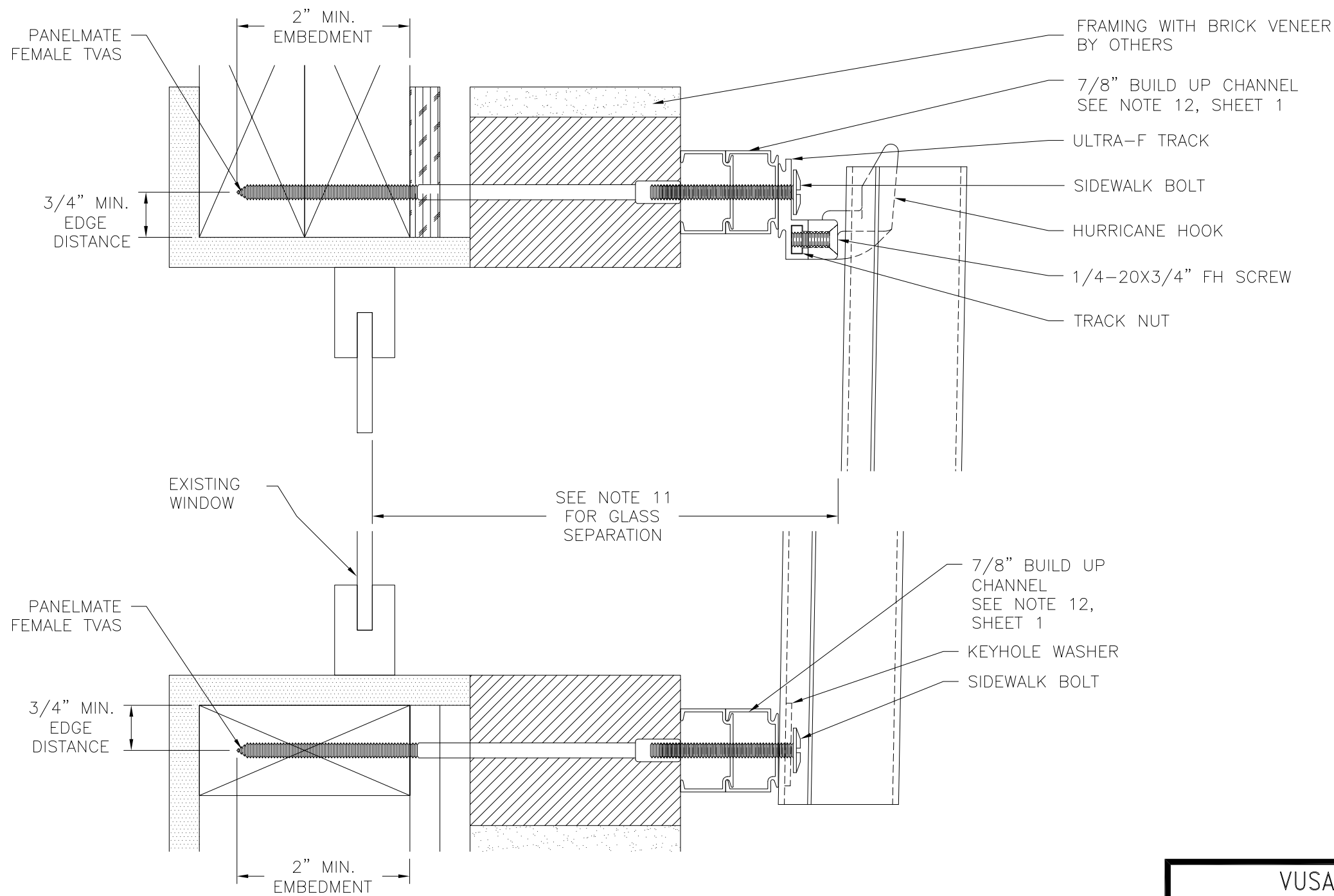
DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 8 OF 10

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
FL No.: 62514

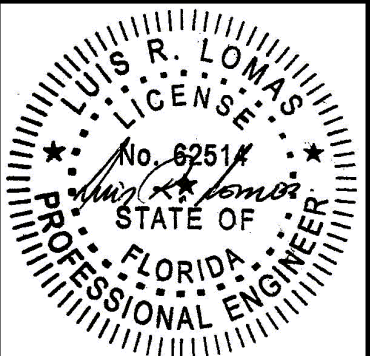
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.



VERTICAL CROSS SECTION
BRICK VENEER INSTALLATION
WITH (2) 7/8" BUILD UP

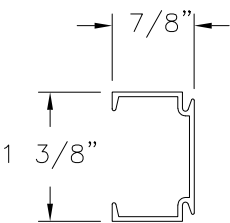
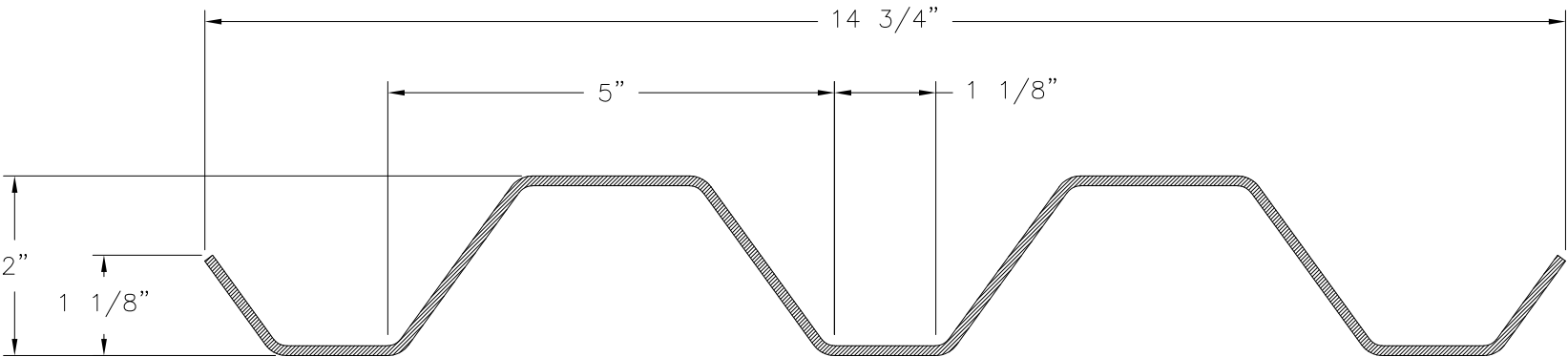
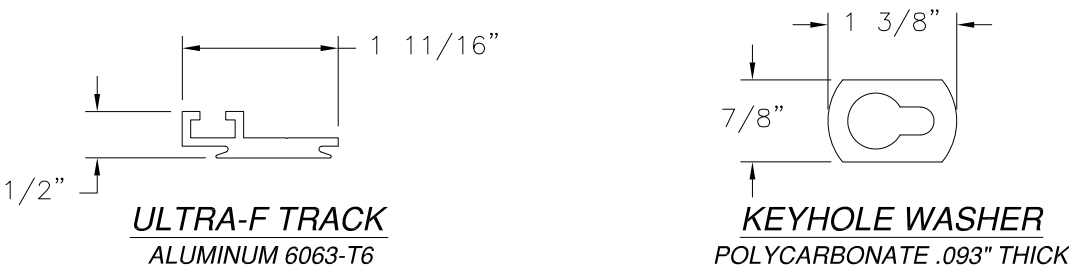
SIGNED: 08/29/2024

VUSAFE INDUSTRIES, LLC. 350 KIDDS HILL ROAD HYANNIS, MA 02601		
STORM SHUTTER TYPE A IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 9 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

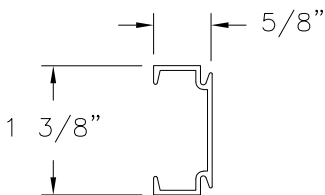


Luis R. Lomas P.E.
FL No.: 62514

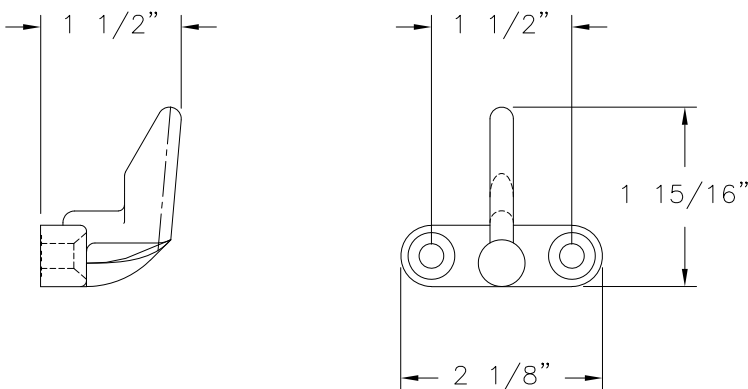
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	08/29/2024	R.L.



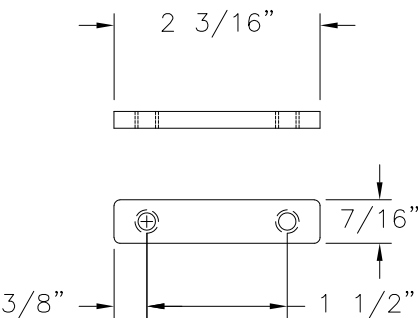
7/8" BUILD UP CHANNEL
ALUMINUM 6063-T6
.055" THICK



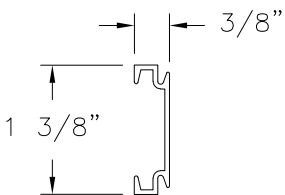
5/8" BUILD UP CHANNEL
ALUMINUM 6063-T6
.055" THICK



HURRICANE HOOK
30% FIBER FILLED NYLON
FY: 60KSI



TRACK NUT
STAINLESS STEEL .18" THICK



3/8" BUILD UP CHANNEL
ALUMINUM 6063-T6
.055" THICK

SIGNED: 08/29/2024

VUSAFE INDUSTRIES, LLC. 350 KIDDS HILL ROAD HYANNIS, MA 02601		
STORM SHUTTER TYPE A IMPACT COMPONENTS		
DRAWN: R.L.	DWG NO. 08-01260	REV D
SCALE NTS	DATE 06/20/11	SHEET 10 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

Luis R. Lomas P.E.
FL No.: 62514