



515 N. FRALEY STREET  
KANE, PA 16735

# Hurri-Kane Shield Level 1 Storm Screens

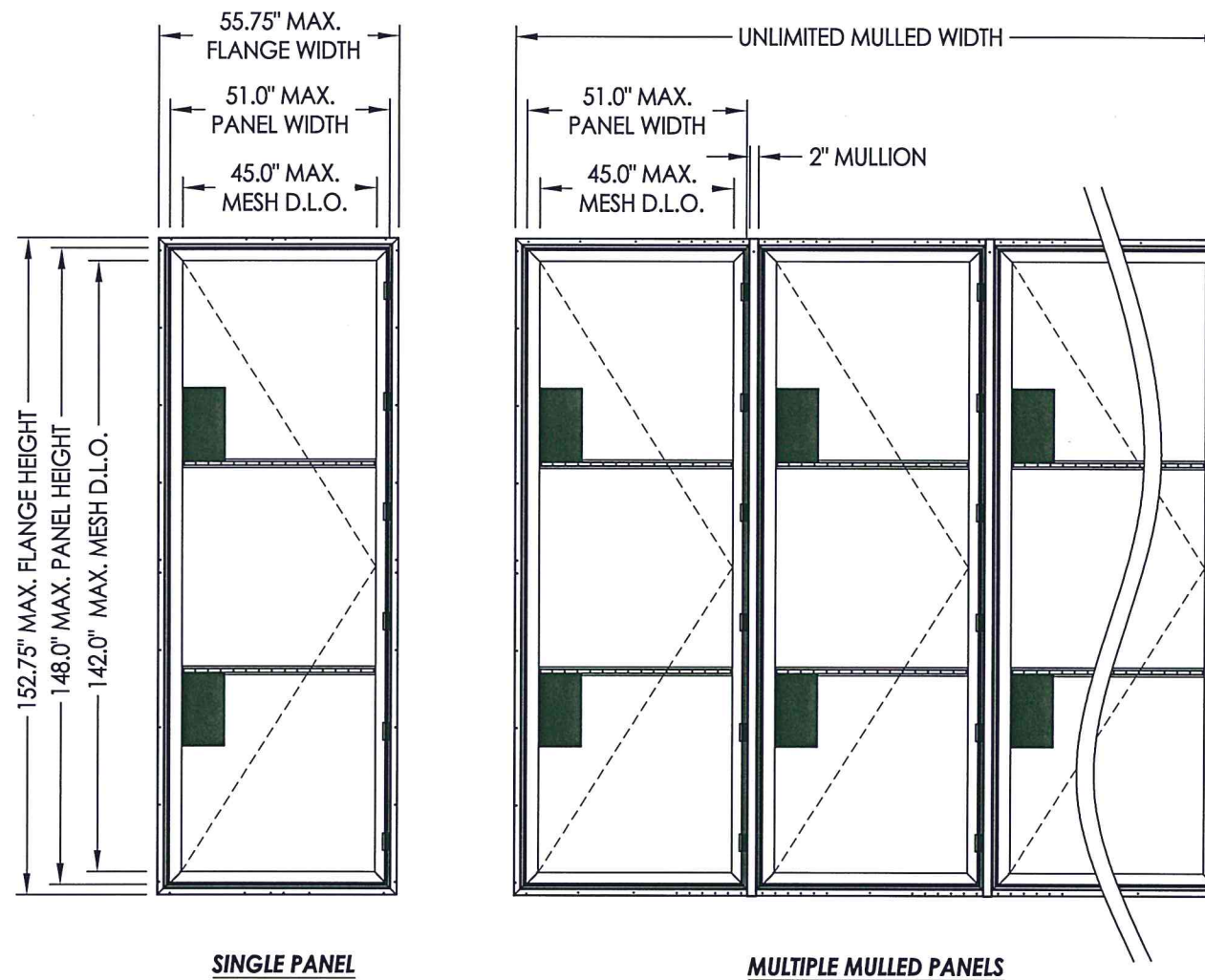
## "IMPACT"

### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 6th Edition (2017) 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.

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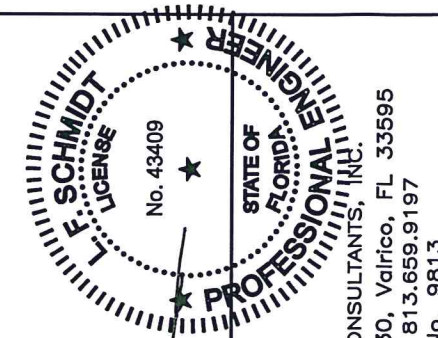
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Panel details
3	Elevations
4	Horizontal cross sections
5	Horizontal and vertical cross sections
6	Glass separation vertical cross sections
7	Single panel frame anchoring
8	Multiple mulled panels frame anchoring
9	Single panel frame anchoring
10	Multiple mulled panels frame anchoring
11	Bill of materials and components



ORIENTATION	MAX OVERALL FLANGE DIMENSION	MAX OVERALL PANEL DIMENSION	DESIGN PRESSURE (PSF) without Porosity Factor		DESIGN PRESSURE (PSF) with Porosity Factor*	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
VERTICAL	55.75" X 152.75"	51.0" X 148.0"	+57.3	-77.5	+85.0	-115.0

See Sheet 3 for Horizontal Orientation Elevations

\* NOTE: The Design Pressure shown has been increased for the porosity of the barrier (67%). The consideration of the use of the porosity factor is at the discretion of the Design Professional or the Authority Having Jurisdiction.



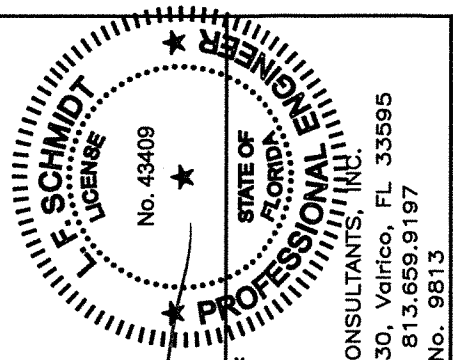
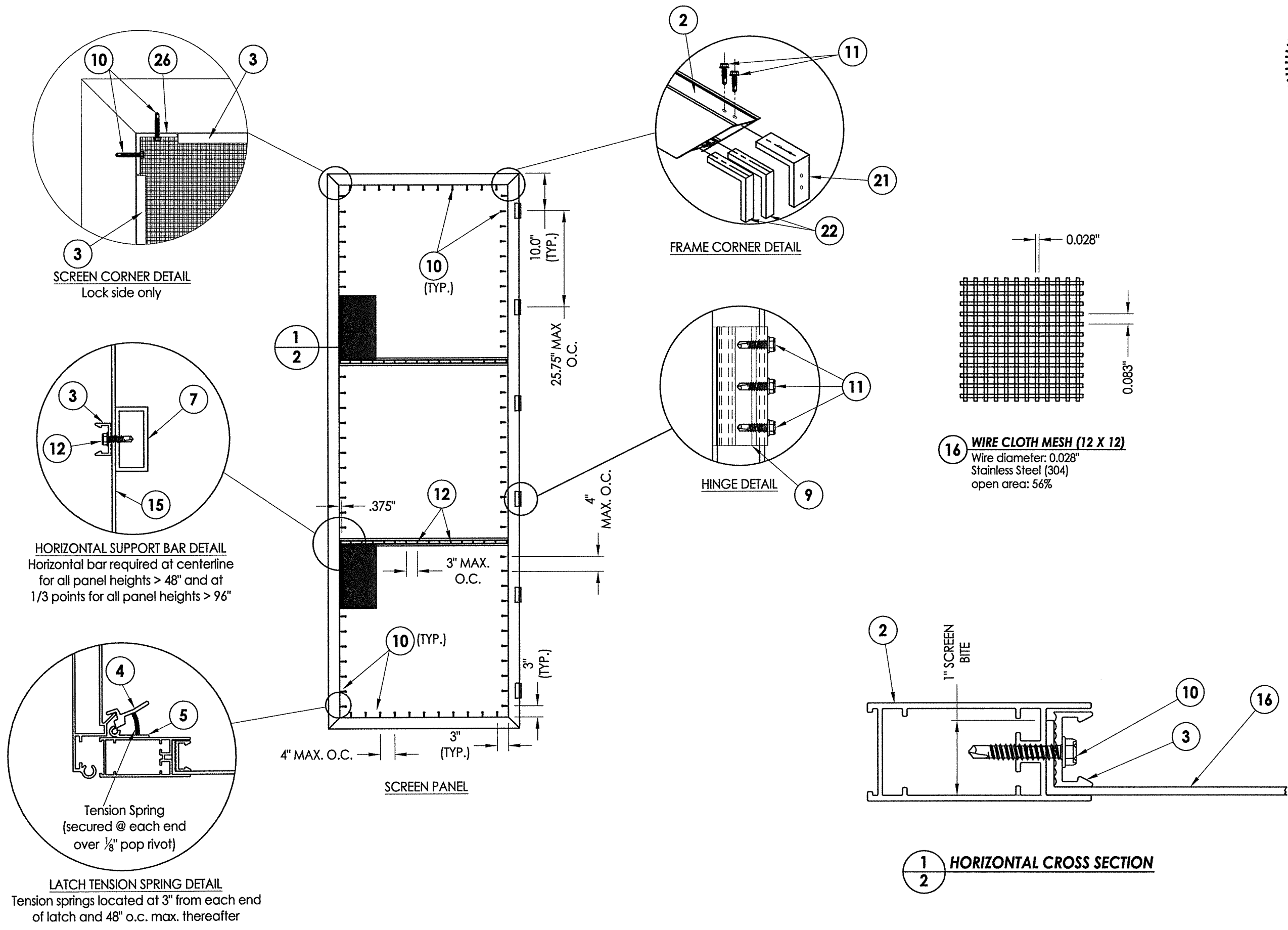
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

*LFS*  
10.3.17

**R.W. BUILDING CONSULTANTS, INC.**  
P.O. Box 230, Vairico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT:	Storm Screens
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
DATE:	3/20/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-10238.5
SHEET	1 OF 11

R:\Clients\Kane PERMANENTVA - Florida Product Approval\FL-10238\C - Drawings\FL 10238 (2017)\FL-10238.4-5.dwg, 2.2



Documents Prepared By:  
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P.O. Box 230, Valrico, FL 33595  
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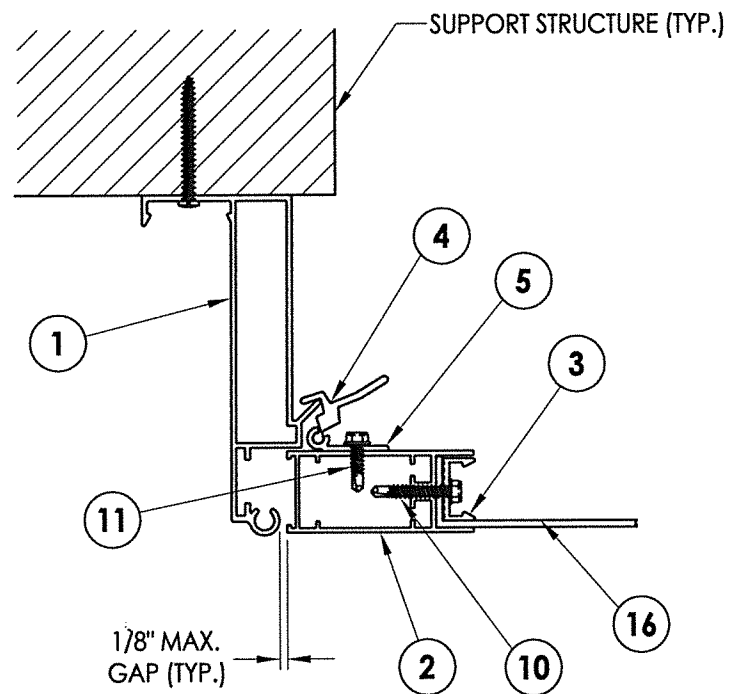
PRODUCT:	Storm Screens
PART OR ASSEMBLY:	PANEL DETAILS

NO.	DATE	BY
1	9/26/17	JK
UPDATE TO 6TH ED. (2017) FBC		

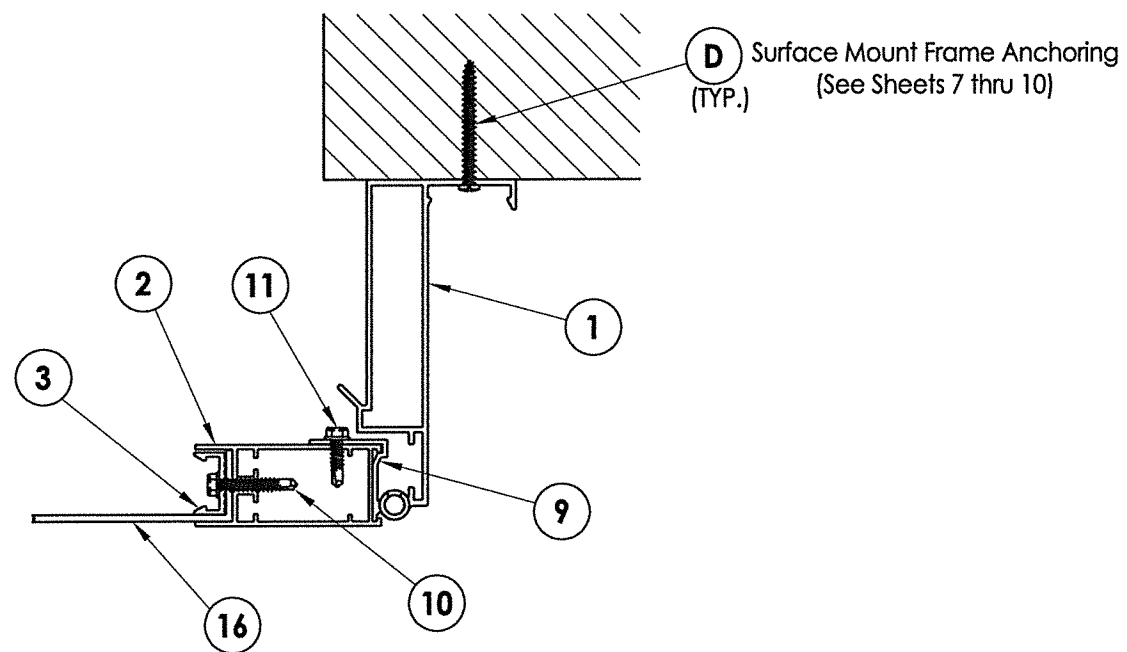
DATE:	3/20/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-10238.5
SHEET	2 OF 11

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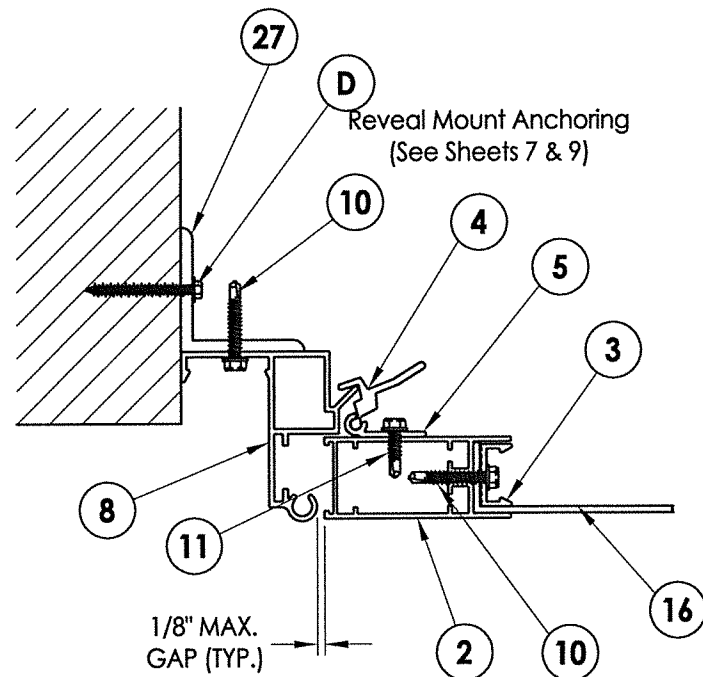




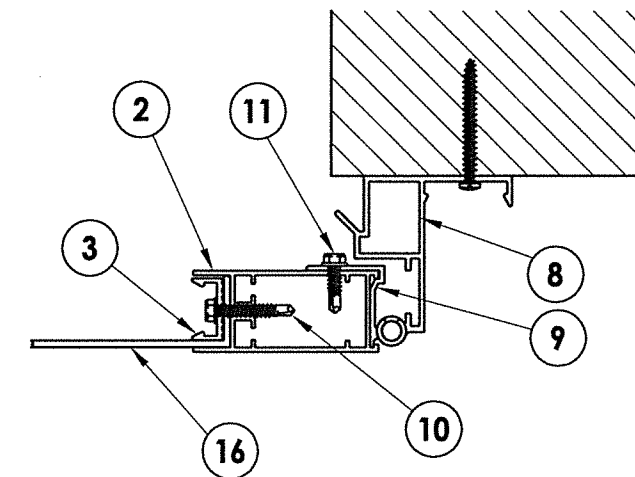
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**4** HORIZONTAL CROSS SECTION



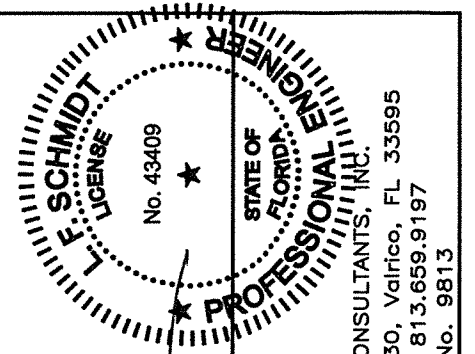
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**4** HORIZONTAL CROSS SECTION



**3**  
**4** HORIZONTAL CROSS SECTION  
Shown w/ Reveal mount



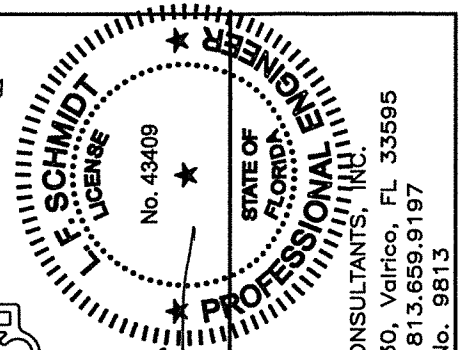
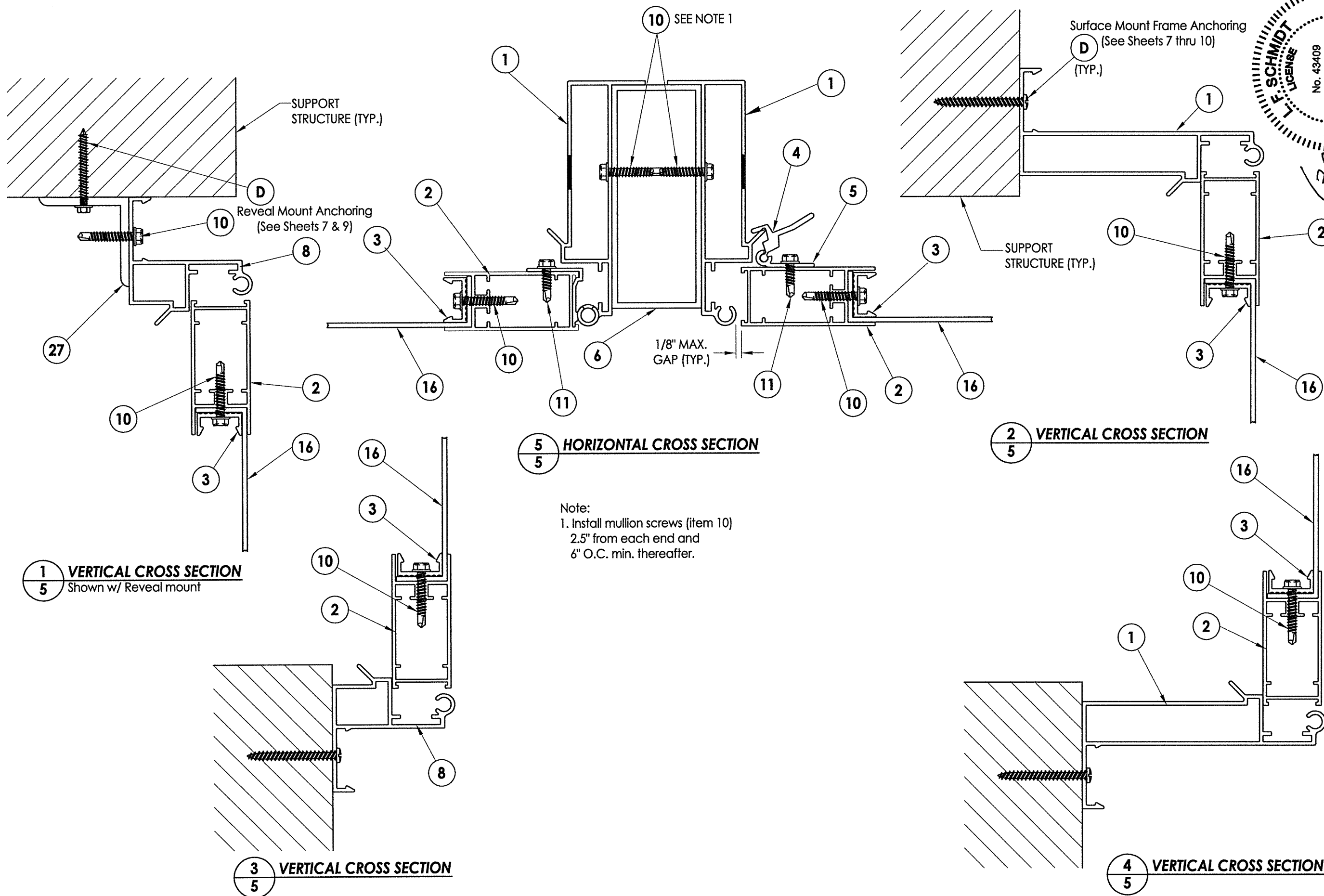
**4**  
**4** HORIZONTAL CROSS SECTION



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FBPE C.A. No. 9813

PRODUCT:	Storm Screens	
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS	
DATE:	3/20/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-10238.5	
SHEET	4 OF 11	
NO.	DATE	BY
1	9/26/17	JK
	UPDATE TO 6TH ED. (2017)	FBC
REVISIONS		



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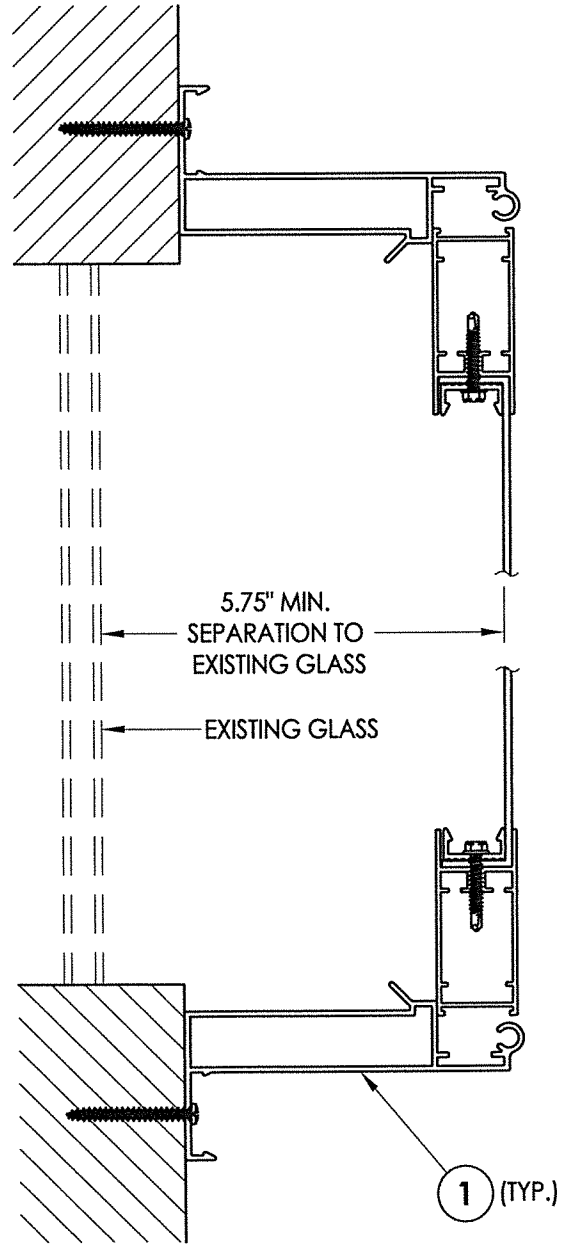
PRODUCT: Storm Screens

PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS

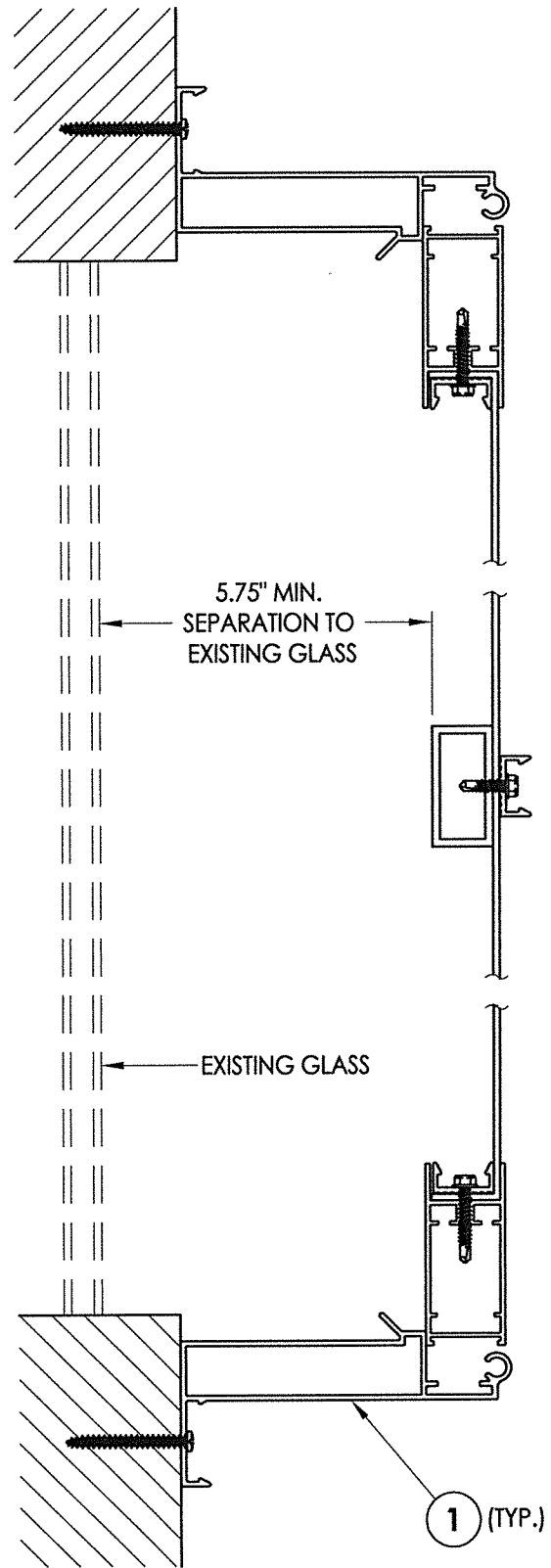
NO.	DATE	BY
1	9/26/17	JK
UPDATE TO 6TH ED. (2017) FBC		

DATE: 3/20/17  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-10238.5  
 SHEET 5 OF 11

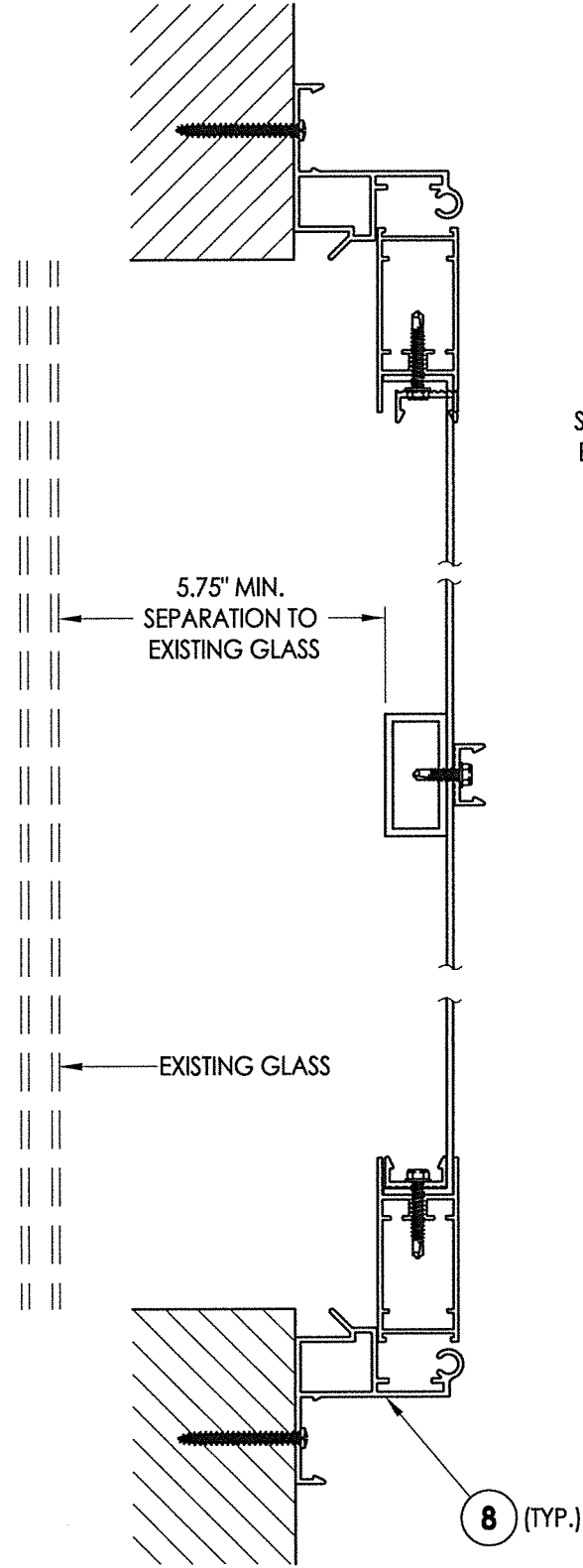
R:\Clients\Kane PERMANENTVA - Florida Product Approvals\FL-10238\C - Drawings\FL 10238 (2017)\FL-10238.4-5.dwg, 2.6



SINGLE PANEL GLASS SEPARATION w/o SUPPORT BAR  
Vertical orientation shown (max. panel height = 48")



SINGLE PANEL GLASS SEPARATION w/ SUPPORT BAR



MULTIPLE MULLIONED PANELS GLASS SEPARATION

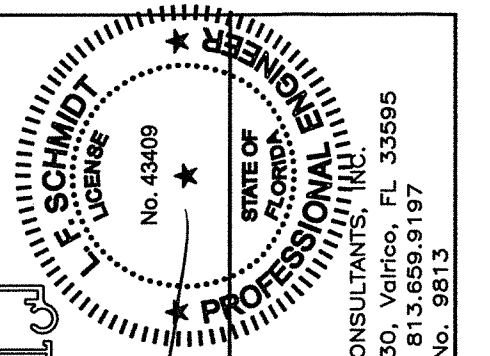
1.5" MIN.  
SEPARATION TO  
EXISTING GLASS

MULLION/  
FRAME  
EDGE

1  
EXISTING GLASS

6

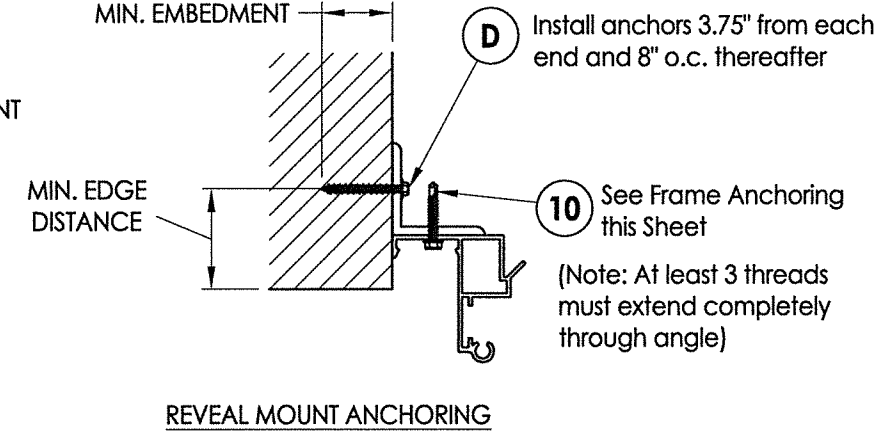
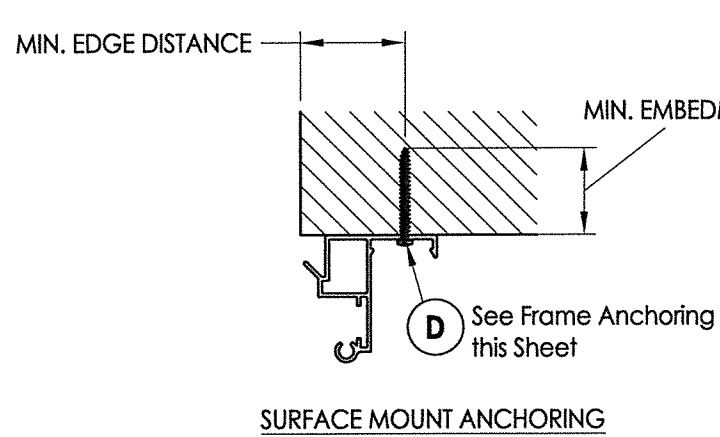
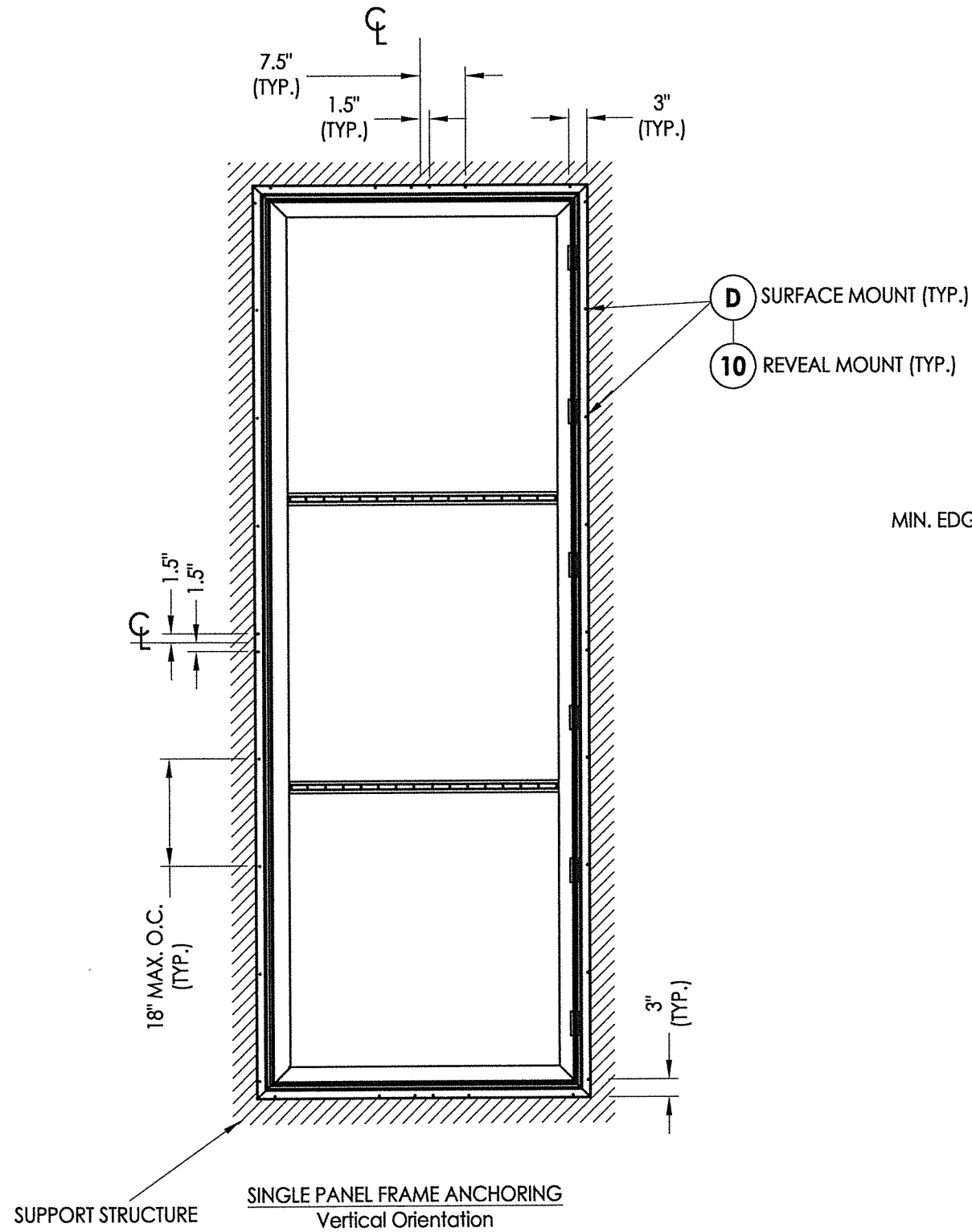
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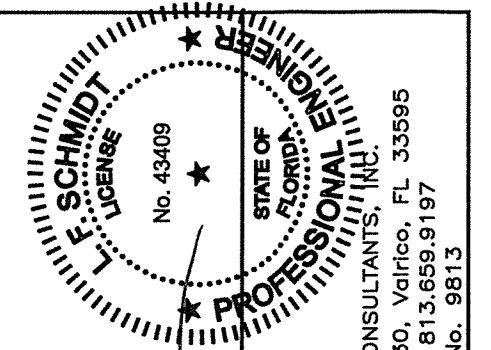
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P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT:	Storm Screens	
PART OR ASSEMBLY:	GLASS SEPARATION VERTICAL CROSS SECTIONS	
NO.	DATE	BY
1	9/26/17	JK
UPDATE TO 6TH ED. (2017) FBC		
REVISIONS		
DATE:	3/20/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-10238.5	
SHEET	6 OF 11	



WOOD FRAMING - APPROVED ANCHOR SCHEDULE		
(D) ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
#12 SHEET METAL SCREW	WOOD FRAMING MAIN MEMBER (G ≥ 0.55 MIN.) EMBEDMENT = 1.75" MIN., EDGE DISTANCE = 0.75" MIN.	N/A



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

PRODUCT: Storm Screens

PART OR ASSEMBLY: SINGLE PANEL FRAME ANCHORING

NO.	DATE	BY	REVISIONS
1	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC

DATE: 3/20/17

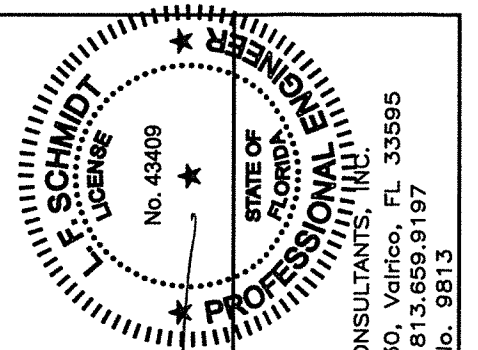
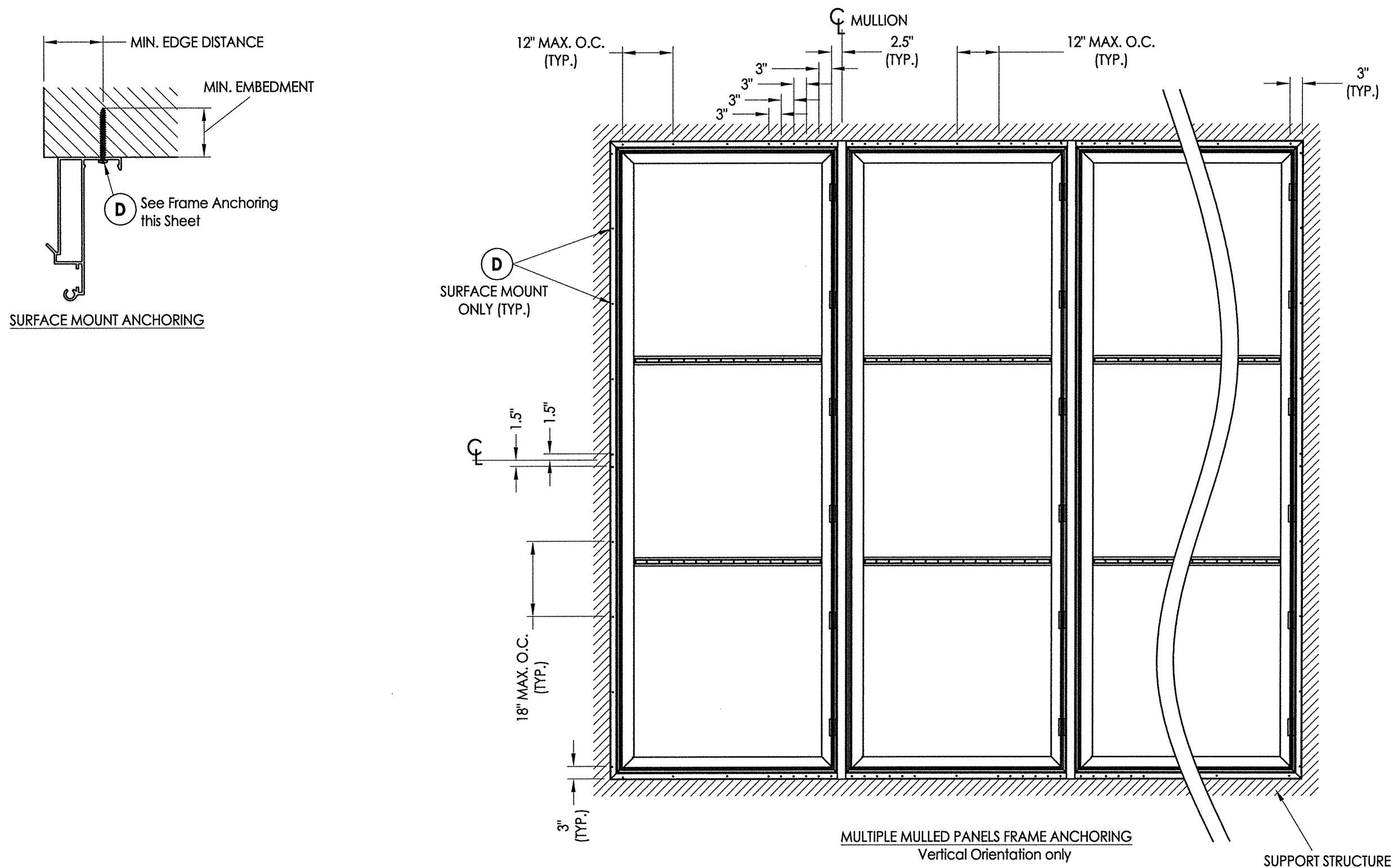
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-10238.5

SHEET 7 OF 11



Documents Prepared By:  
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 Phone No.: 813.659.9197  
 FBPE C.A. No. 9813

PRODUCT: Storm Screens

PART OR ASSEMBLY:  
 MULTIPLE MULLED PANELS  
 FRAME ANCHORING

NO.	DATE	JK	BY
1	9/26/17	JK	JK

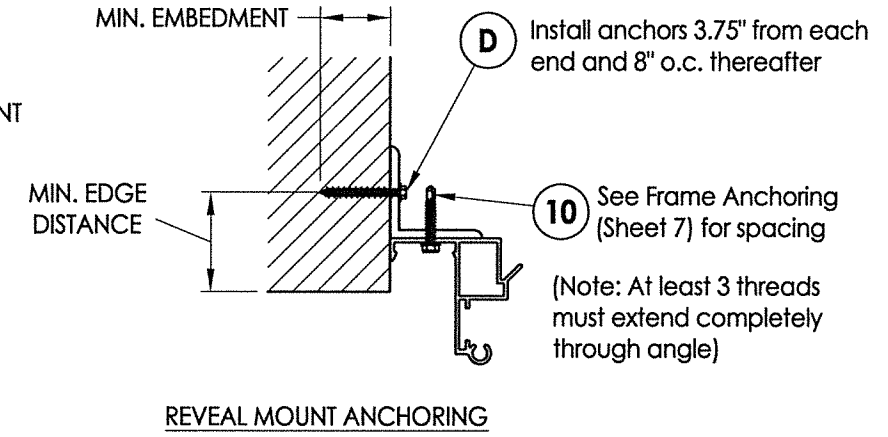
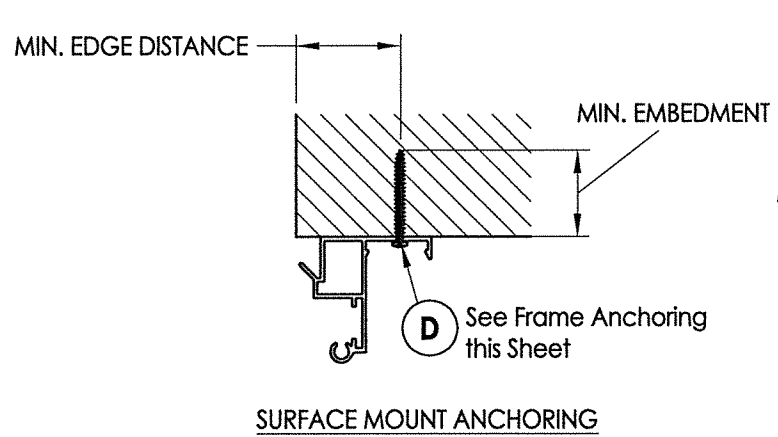
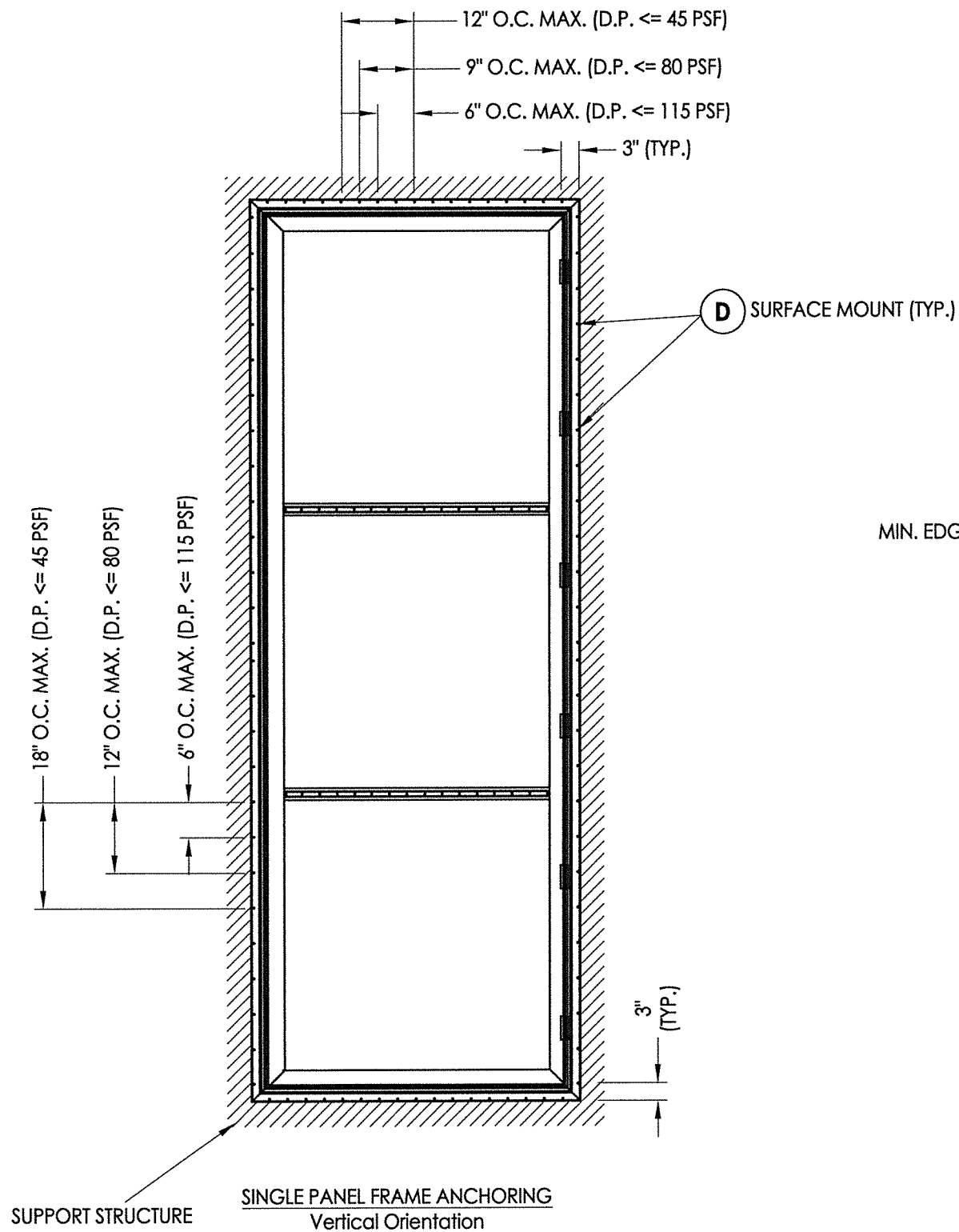
UPDATE TO 6TH ED. (2017) FBC

DATE: 3/20/17  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-10238.5  
 SHEET 8 OF 11

**WOOD FRAMING - APPROVED ANCHOR SCHEDULE**

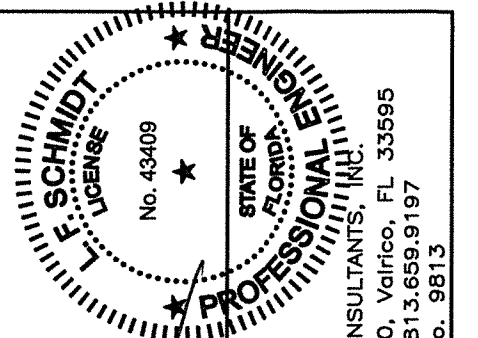
ⓓ ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
#12 SHEET METAL SCREW	WOOD FRAMING MAIN MEMBER ( $G \geq 0.55$ MIN.) EMBEDMENT = 1.75" MIN., EDGE DISTANCE = 0.75" MIN.	N/A





MASONRY - APPROVED ANCHOR SCHEDULE		
<b>D</b> ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
1/4" CONCRETE ANCHOR	CONCRETE = 3,000 PSI MIN. (CONFORMING TO ACI 301) OR HOLLOW BLOCK (CONFORMING TO ASTM C90) EMBEDMENT = 1.25" MIN., EDGE DISTANCE = 2.5" MIN., CL = 3.0" MIN.	ELCO ULTRACON®

NOTE: Porosity Factor included in Design Pressures indicated.



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 P.E. No. 43409

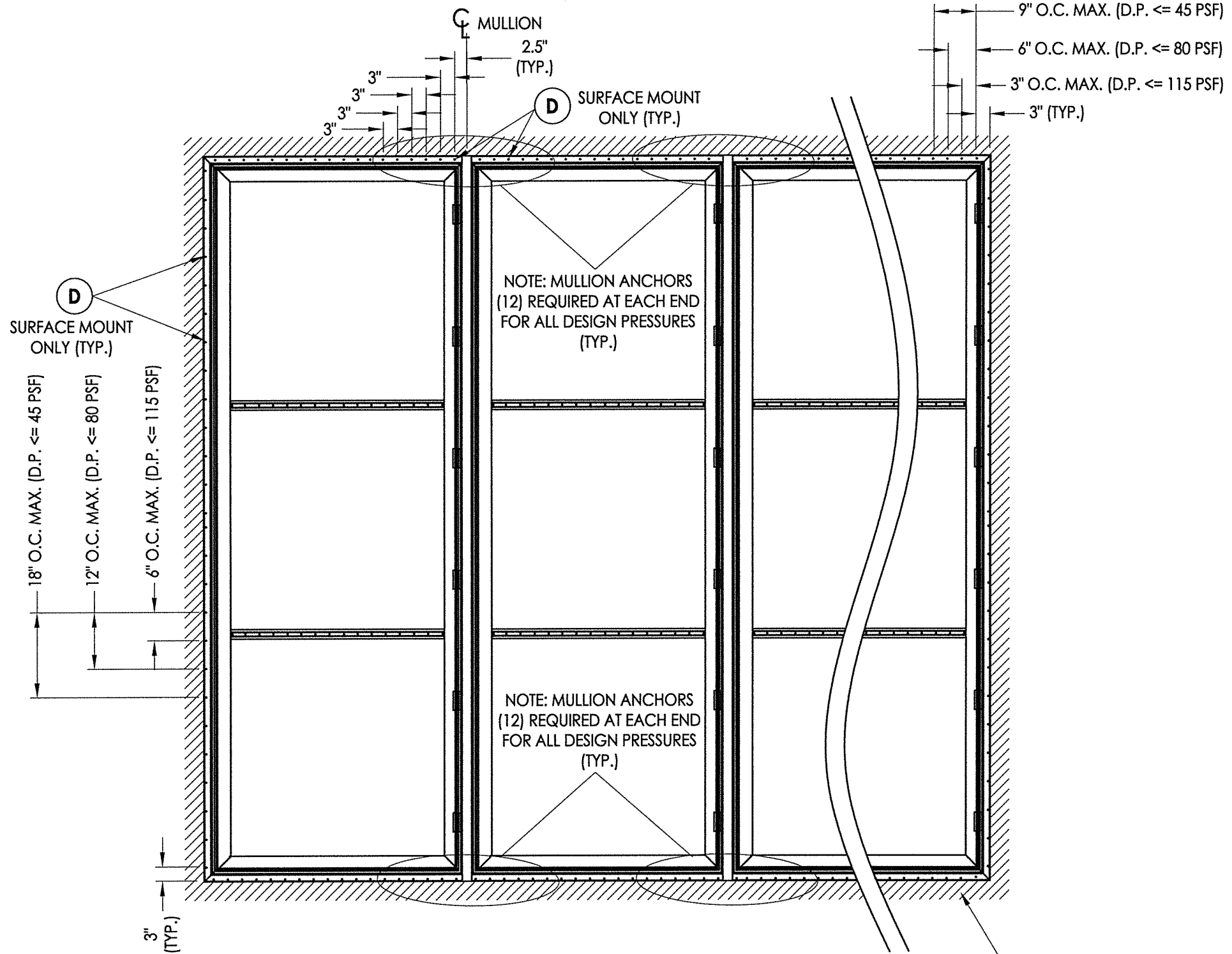
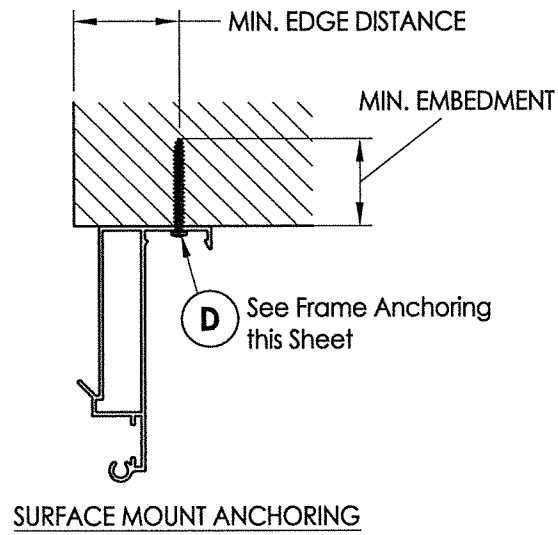
**RW** BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE C.A. No. 9813

PRODUCT:	Storm Screens
PART OR ASSEMBLY:	SINGLE PANEL FRAME ANCHORING

NO.	DATE	BY	REVISIONS
1	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC

DATE:	3/20/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-10238.5
SHEET	9 of 11

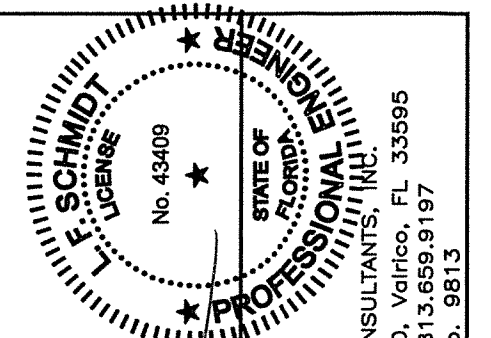
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MULTIPLE MULLED PANELS FRAME ANCHORING  
Vertical Orientation only

MASONRY - APPROVED ANCHOR SCHEDULE		
ANCHOR	SUPPORT STRUCTURE & INSTALLATION LIMITATIONS	MANUFACTURER
1/4" CONCRETE ANCHOR	CONCRETE = 3,000 PSI MIN. (CONFORMING TO ACI 301) OR HOLLOW BLOCK (CONFORMING TO ASTM C90) EMBEDMENT = 1.25" MIN., EDGE DISTANCE = 2.5" MIN., CL = 3.0" MIN.	ELCO ULTRACON®

NOTE: Porosity Factor included in Design Pressures indicated.



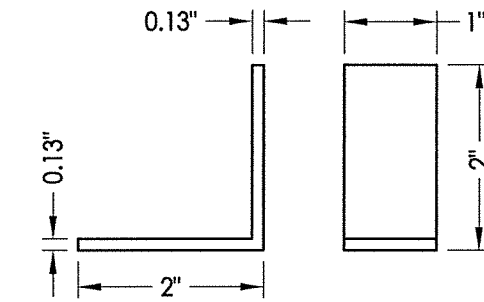
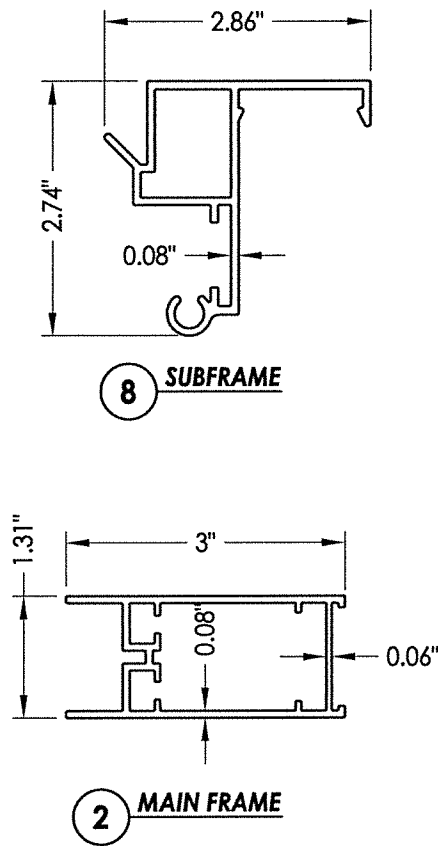
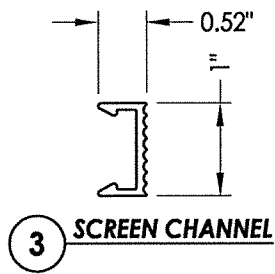
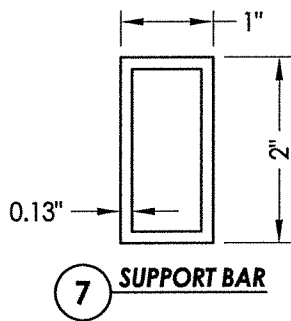
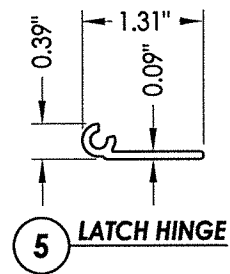
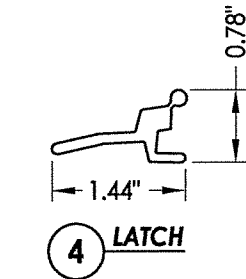
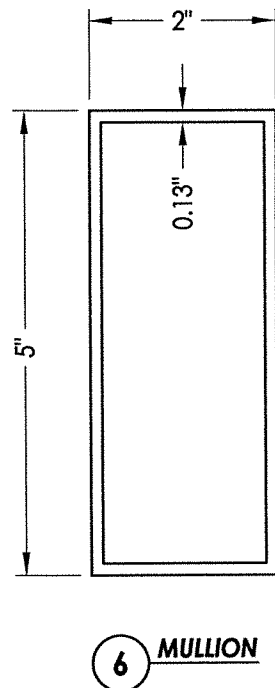
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Phone No.: 813.659.9197  
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PRODUCT: Storm Screens  
PART OR ASSEMBLY: MULTIPLE MULLED PANELS FRAME ANCHORING

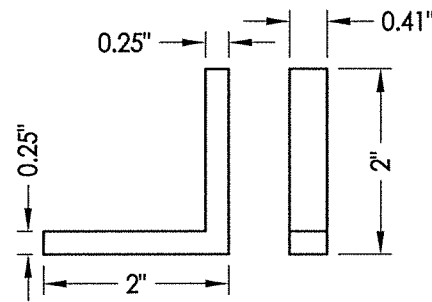
NO.	DATE	BY	REVISIONS
1	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC

DATE: 3/20/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-10238.5  
SHEET 10 OF 11

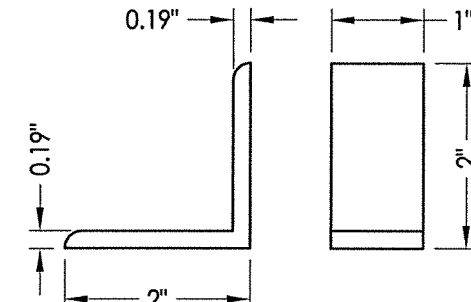
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
D	SEE SHEETS 7 THRU 10 FOR ANCHORING	-
1	SUBFRAME (5.5)	6063-T6 ALUM
2	MAIN FRAME	6063-T6 ALUM
3	SCREEN CHANNEL	6063-T6 ALUM
4	LATCH	6063-T6 ALUM
5	LATCH HINGE	6063-T6 ALUM
6	MULLION	6063-T6 ALUM
7	SUPPORT BAR	6063-T6 ALUM
8	SUBFRAME (2.75")	6063-T6 ALUM
9	HINGE	6063-T6 ALUM
10	#12 X 1-1/4" HWH SELF-DRILLING SMS	STEEL
11	#10 X 3/4" HWH SELF-DRILLING SMS	STEEL
12	#12 X 3/4" HWH SELF-DRILLING SMS	STEEL
16	WIRE CLOTH (0.028" Ø STAINLESS STEEL)	304 SS
21	CORNER KEY	6063-T6 ALUM
22	CORNER KEY	6063-T6 ALUM
23	CORNER KEY	6063-T6 ALUM
25	3/16" I P ALUM POP RIVET (ARROW)	ALUM
26	CORNER REINFORCEMENT	6063-T6 ALUM
27	2" X 2" X 3/16" ANGLE	6063-T6 ALUM



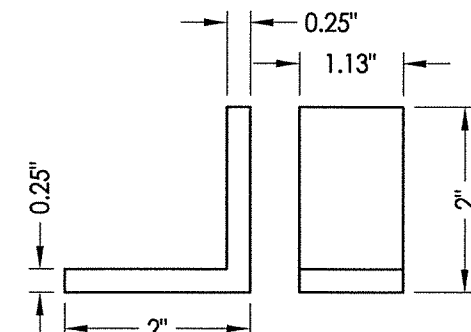
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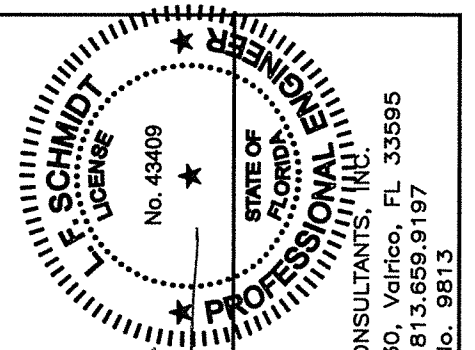
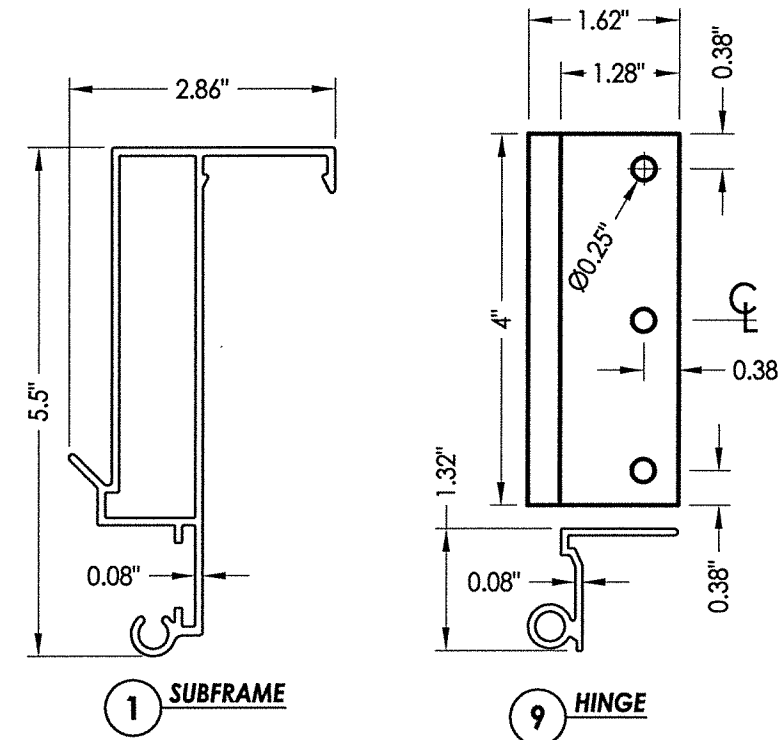
**22 CORNER KEY**



**26 CORNER REINFORCEMENT**



**21 CORNER KEY**



Documents Prepared By:  
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P.E. No. 43409

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Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT: Storm Screens  
PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	JK
1	9/26/17	JK	FBC

REVISIONS

DATE: 3/20/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-10238.5  
SHEET 11 OF 11