



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

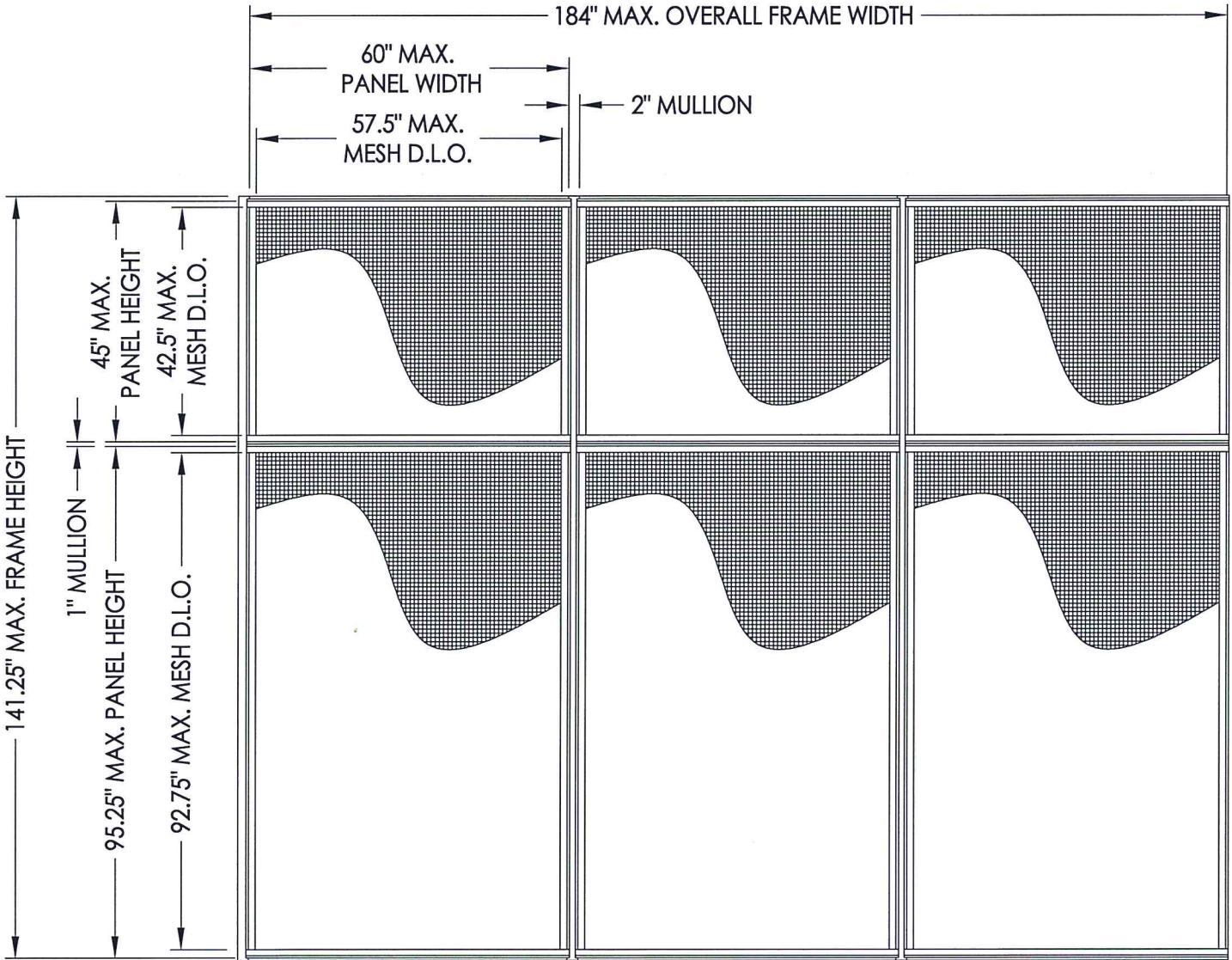
PATIO ENCLOSURE HURRICANE SCREEN

"IMPACT"

GENERAL NOTES

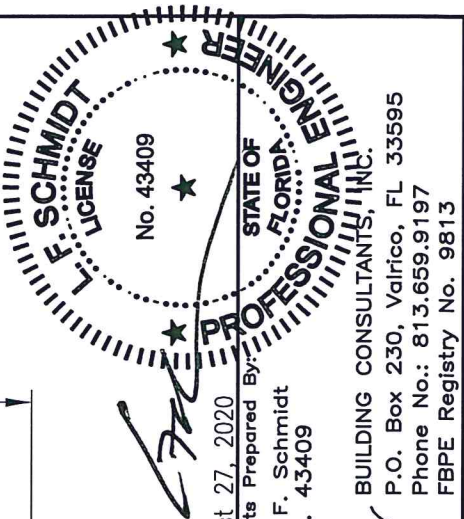
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. The system detailed is generic and does not provide specific information for a specific site. The Architect or Engineer of Record is responsible for providing site specific drawings to verify the adequacy of the existing structure to withstand the superimposed loads.
3. The vertical mullions shown in this drawing are not designed to support vertical loading and shall not be used to support any additional loading from a roof structure or roof framing.
4. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
5. When used in the HVHZ, this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
6. 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.
7. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
8. 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	Elevation & Screen Details
3	Vertical Cross Sections
4	Horizontal Cross Sections
5	Frame Anchoring
6	Bill of Materials & Components



HURRICANE SCREEN SHOWN AS TESTED (3 PANELS WIDE)
(MULTIPLE PANELS MAY BE ADDED IN THE HORIZONTAL DIRECTION ONLY)

MAX OVERALL PANEL DIMENSION	MAX MESH D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
60.0" X 95.25"	57.5" X 92.75"	+50.0	-50.0



August 27, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

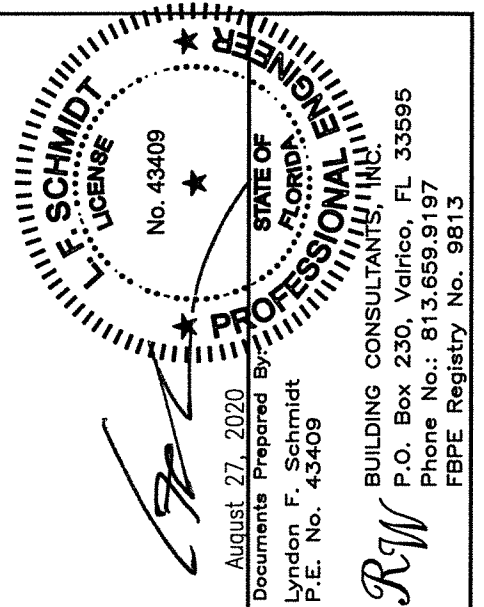
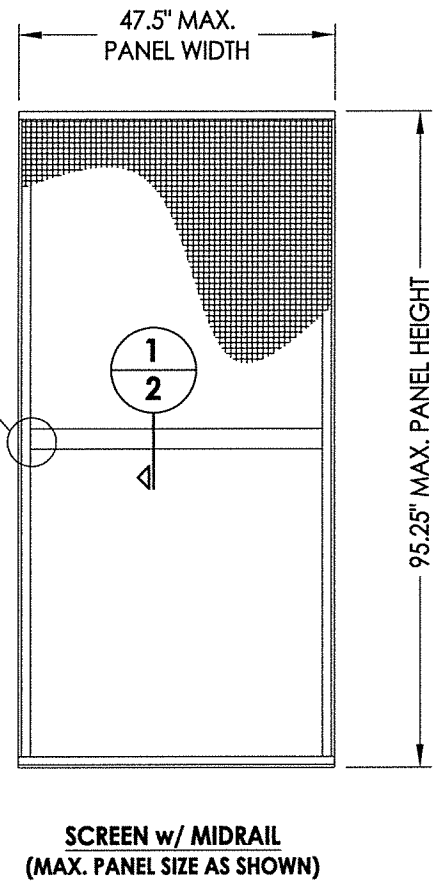
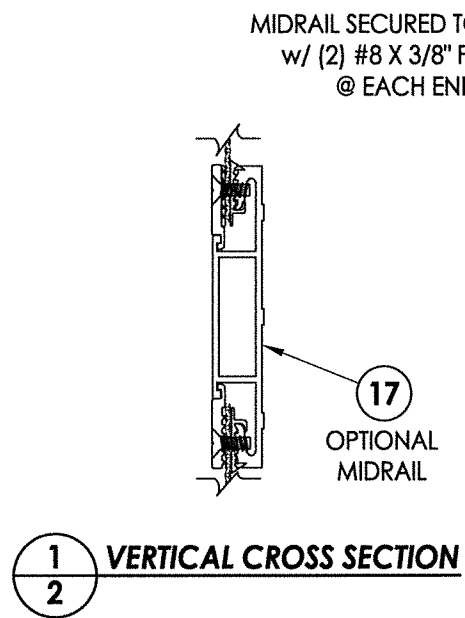
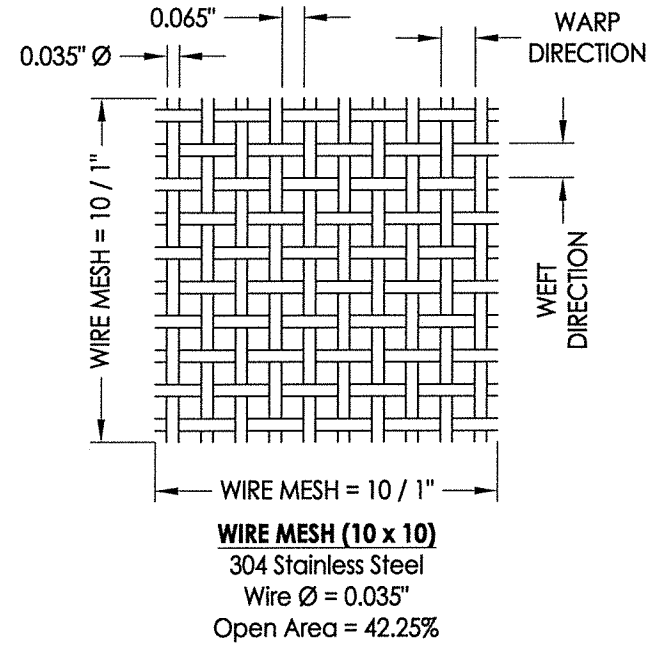
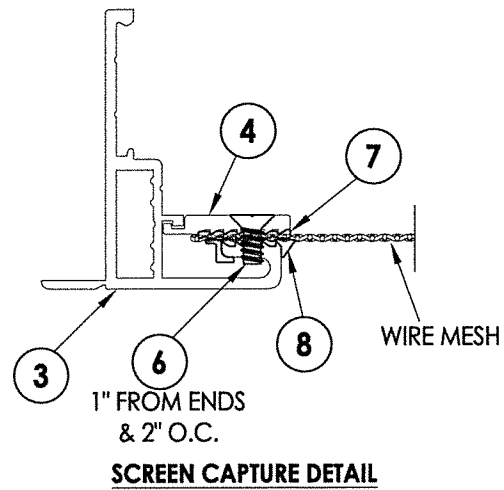
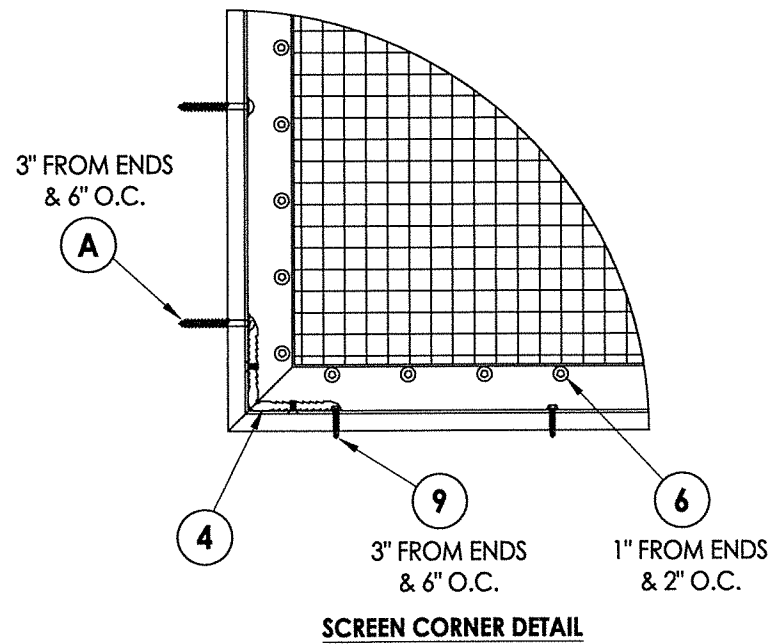
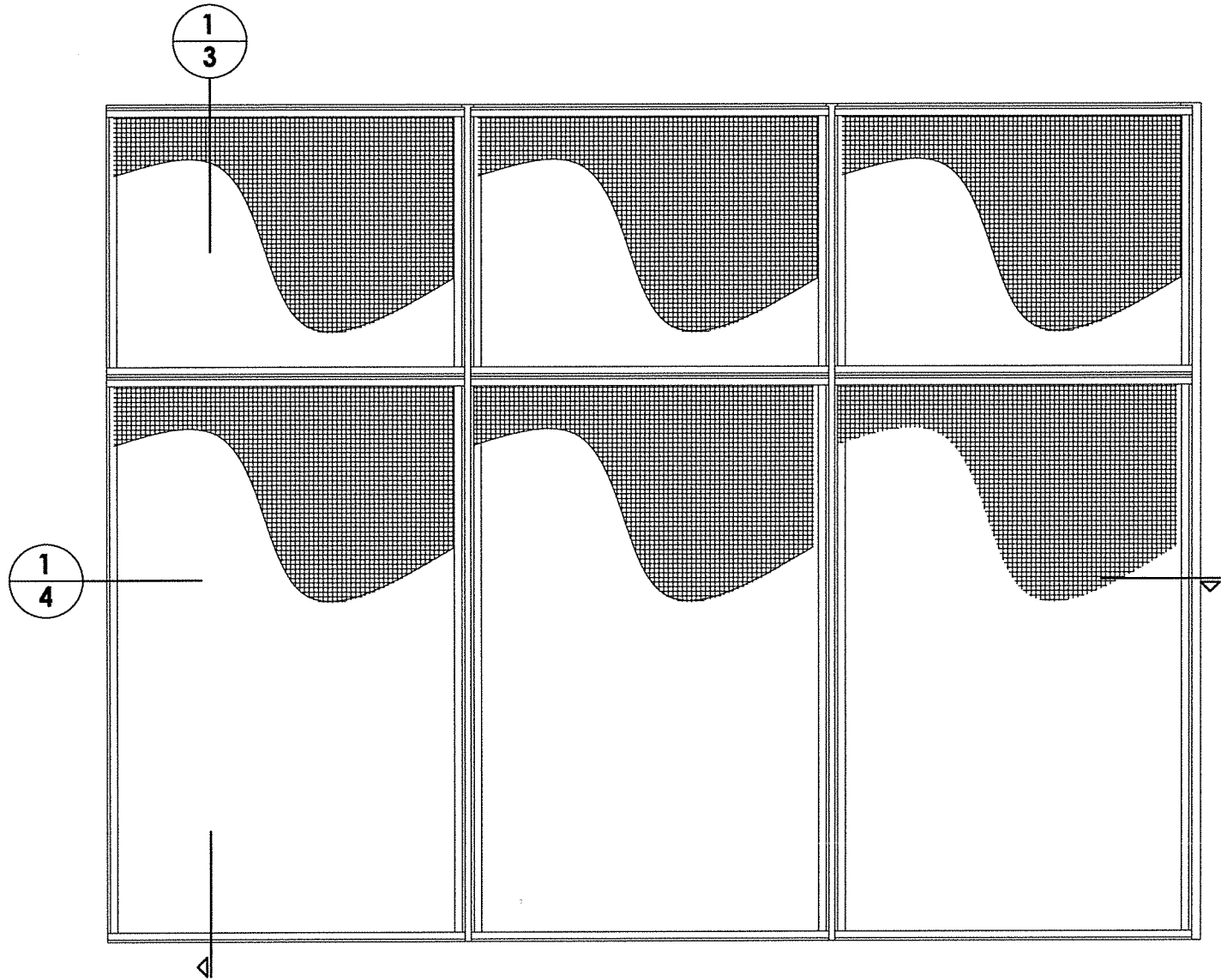
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

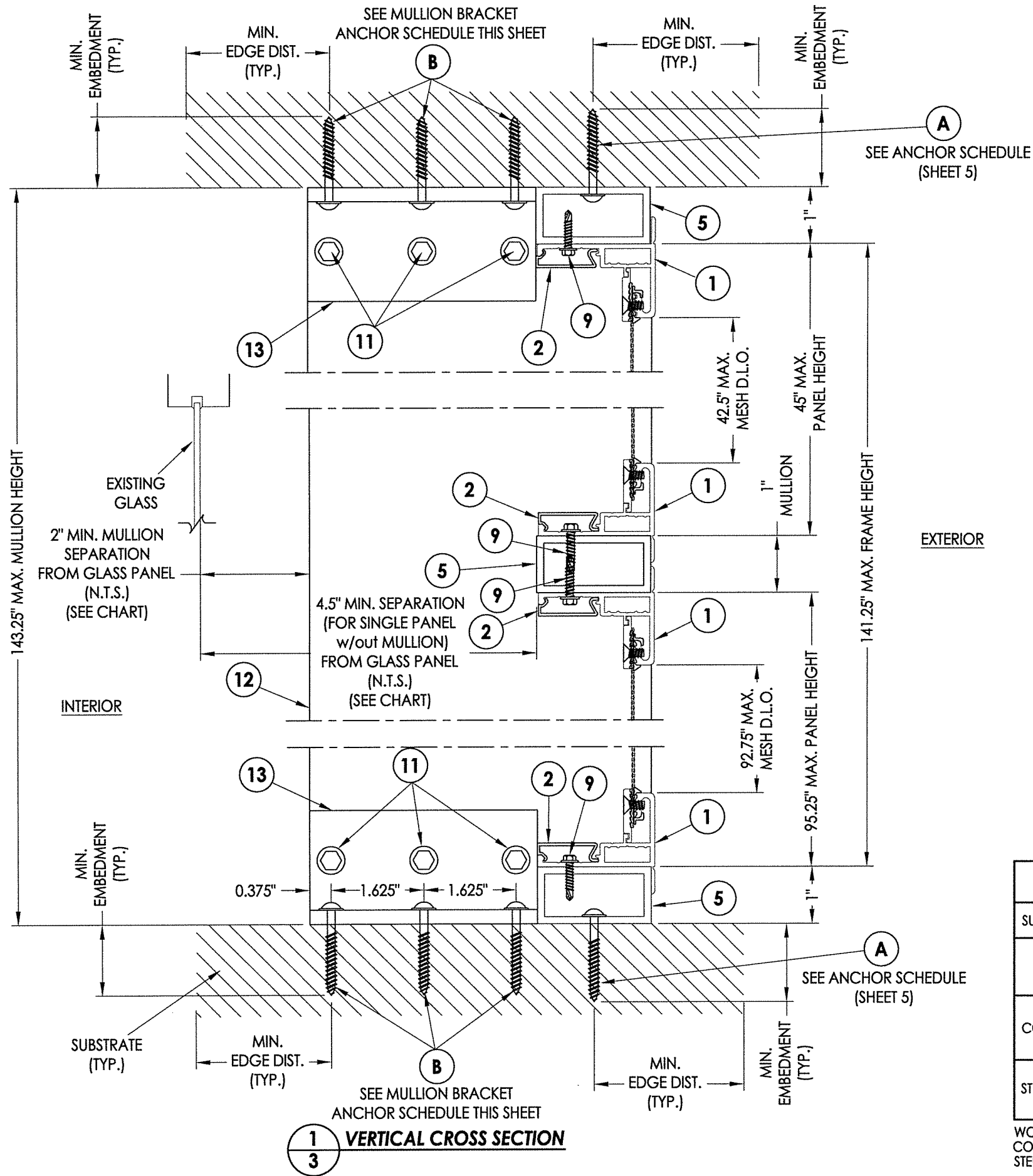
REVISIONS	
NO.	DATE
1	8/13/20
UPDATE TO 7th ED. (2020) FBC	

DATE:	4/11/19
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-29455.3
SHEET	1 OF 6

R:\Clients\Crimsafe North America\A - Florida Product Approvals\FL - 29455\C - Drawings\FL 29455 (2020)\FL-29455.3.dwg, 2.4



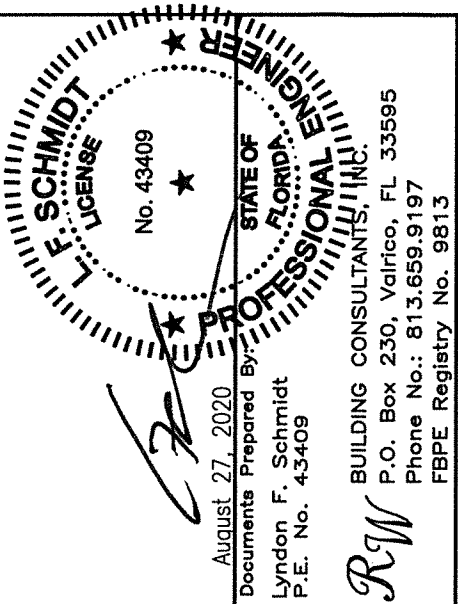
PRODUCT:		HURRICANE SCREEN	
PART OR ASSEMBLY:		ELEVATION & SCREEN DETAILS	
DATE:	4/11/19	NO.	DATE
SCALE:	N.T.S.	1	8/13/20
DWG. BY:	LFS	UPDATE TO	7th ED. (2020)
CHK. BY:	RW	FBC	DAC
DRAWING NO.:	FL-29455.3	BY	BY
SHEET	2	OF	6



MIN. SEPARATION FROM GLASS PANEL		
PANELS w/ VERTICAL MULLIONS	"NON-HVHZ"	2"
	"HVHZ"	2"
SINGLE PANEL w/out MULLION	"NON-HVHZ"	4.5"
	"HVHZ"	4.5"

B MULLION BRACKET ANCHOR SCHEDULE				
SUBSTRATE	ANCHOR	EMBEDMENT	EDGE DISTANCE	CENTER-TO-CENTER SPACING
WOOD	#10 X 1-1/2" PWH SHEET METAL SCREW 	1-1/4" MIN.	1-3/8" MIN.	1-1/2" MIN.
CONCRETE	1/4" Ø HWH DeWALT ULTRACON® 	1-3/4" MIN.	2-1/2" MIN.	1-5/8" MIN.
STEEL/ALUM	#12-14 HWH SELF-DRILLING SHEET METAL SCREW 	A MIN. OF 3 THREADS SHALL PROTRUDE THROUGH THE STEEL/ALUM SUBSTRATE	1-3/8" MIN.	1-1/2" MIN.

WOOD FRAMING (G >= 0.42)
CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.)
STEEL OR ALUMINUM FRAMING (MIN. 1/8" WALL THICKNESS - BY OTHERS)

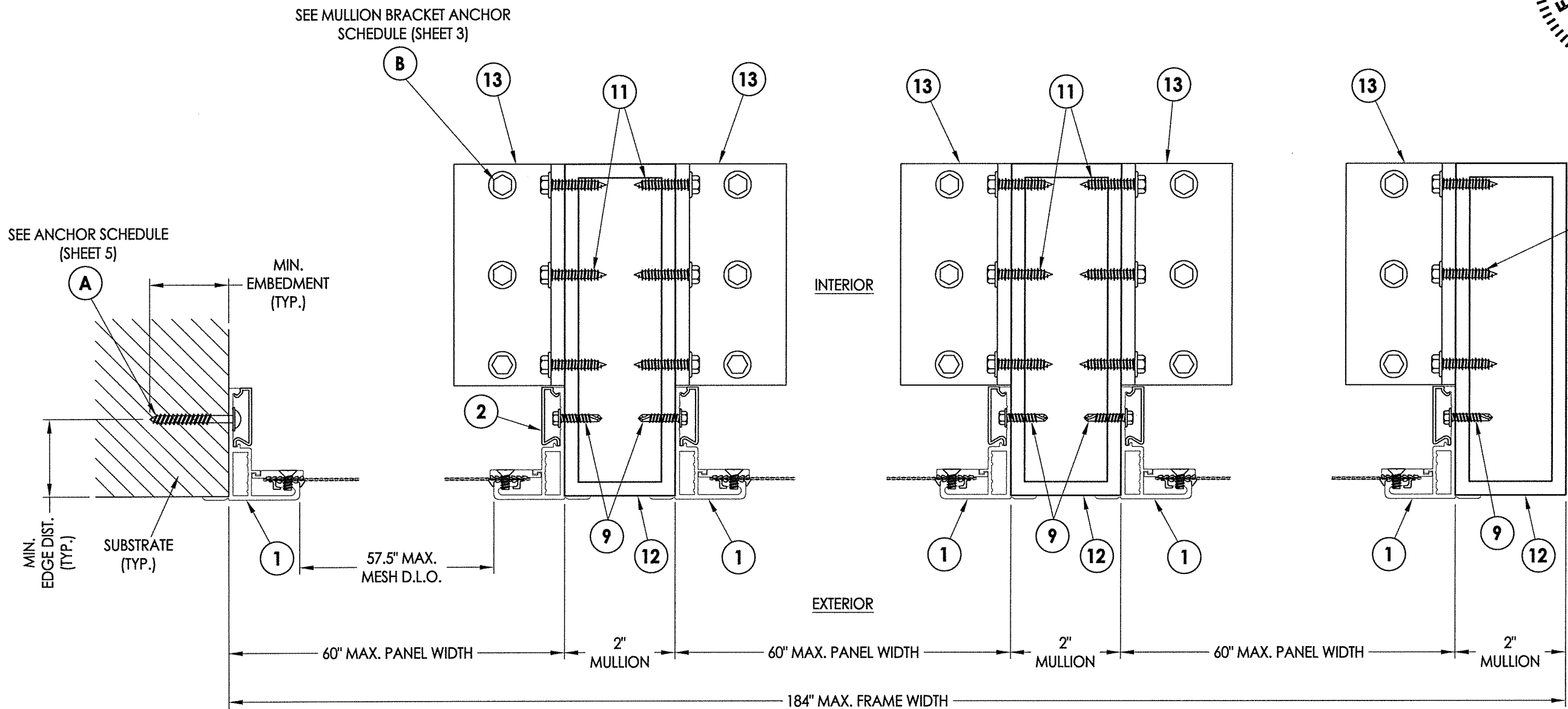


August 27, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

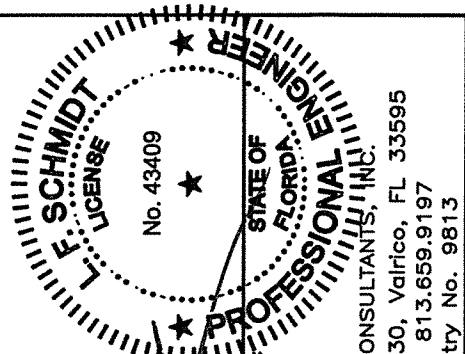
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		HURRICANE SCREEN	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	FBC	DAC
			BY
1	8/13/20	UPDATE TO 7th ED. (2020)	
REVISIONS			
DATE: 4/11/19			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-29455.3			
SHEET 3 OF 6			

R:\Clients\Crimsafe North America\A - Florida Product Approvals\FL - 29455\C - Drawings\FL 29455 (2020)\FL-29455.3.dwg, 4.4

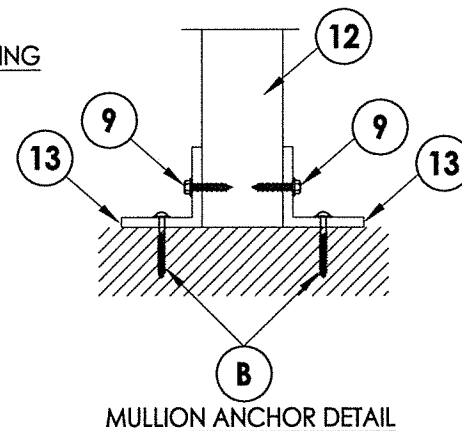
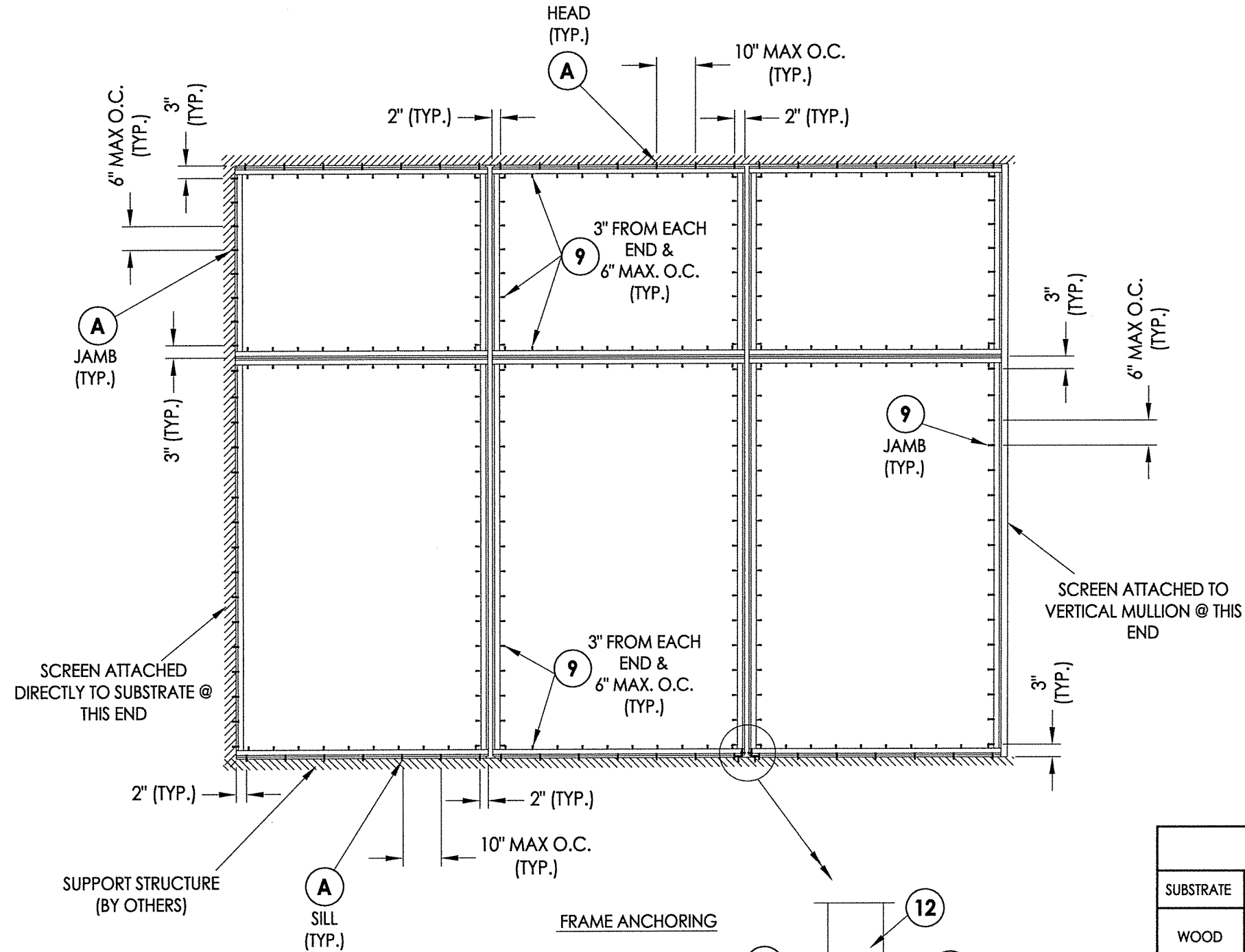


1/4 HORIZONTAL CROSS SECTION



August 27, 2020
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

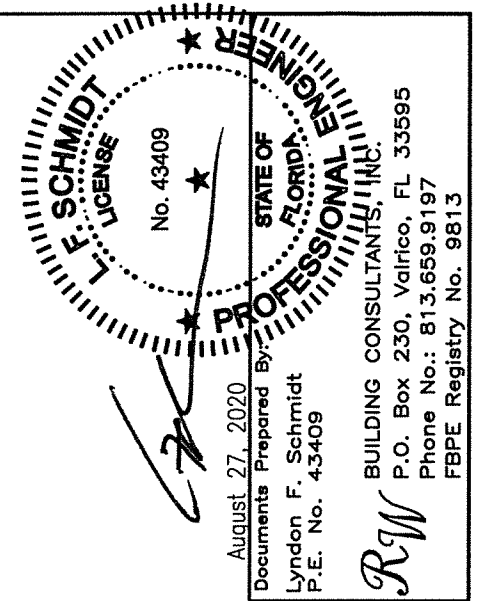
PRODUCT:		HURRICANE SCREEN	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	



NOTE: (2) MILLION ANCHOR BRACKETS w/ (6 TOTAL) MILLION ANCHORS
REQUIRED @ EACH END OF EACH VERTICAL MILLION (TYP.)
SEE SHEET 3 FOR MILLION BRACKET ANCHOR SCHEDULE

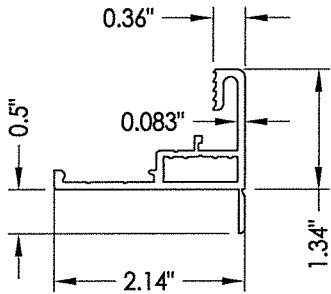
A ANCHOR SCHEDULE				
SUBSTRATE	ANCHOR	EMBEDMENT	EDGE DISTANCE	CENTER-TO-CENTER SPACING
WOOD	#10 X 1-1/2" PWH SHEET METAL SCREW 	1-1/4" MIN.	1" MIN.	1-1/2" MIN.
HOLLOW BLOCK (JAMB)	3/16" Ø HWH DeWALT ULTRA-CON® 	1-1/4" MIN.	1-1/4" MIN.	6" MIN.
CONCRETE (HEAD/SILL)	1/4" Ø HWH DeWALT ULTRA-CON® 	1-3/4" MIN.	2-1/2" MIN.	1-5/8" MIN.
STEEL/ALUM	#10-14 HWH SELF-DRILLING SHEET METAL SCREW 	A MIN. OF 3 THREADS SHALL PROTRUDE THROUGH THE STEEL/ALUM SUBSTRATE	3/4" MIN.	1-1/2" MIN.

WOOD FRAMING (G >= 0.42)
CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.)
HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90
STEEL OR ALUMINUM FRAMING (MIN. 1/8" WALL THICKNESS - BY OTHERS)

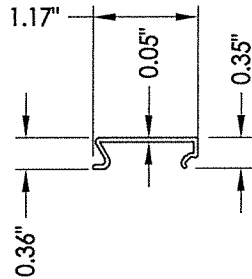


DATE: 4/11/19		PRODUCT: HURRICANE SCREEN PART OR ASSEMBLY: FRAME ANCHORING	
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-29455.3			
SHEET 5	OF 6	1 8/13/20 NO. DATE UPDATE TO 7th ED. (2020) FBC BY	
		REVISIONS	

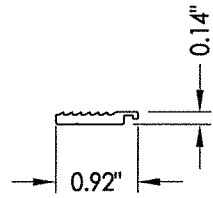
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	ANCHOR (SEE SHEET 4 FOR ANCHORING SCHEDULE)	STEEL
B	MULLION BRACKET ANCHOR (SEE SHEET 3 FOR ANCHORING SCHEDULE)	
1	PATIO FRAME (08A)	6063-T5 ALUM
2	PATIO COVER (08B)	6063-T5 ALUM
3	HURRICANE CLAMP	6063-T5 ALUM
4	PATIO CORNER (08ACNR)	6063-T5 ALUM
5	ALUMINUM HORIZONTAL MULLION (1" x 2" x 1/8")	6061-T6 ALUM
6	#8 X 3/8" FH COUNTERSUNK CLAMP SCREWS	STAINLESS STEEL
7	TESA TAPE	-
8	SANTOPRENE INSULATOR	SANTOPRENE
9	#12 X 3/4" HWH SELF-DRILLING SMS	STAINLESS STEEL
11	#12 X 1" HWH SELF-DRILLING SMS	STAINLESS STEEL
12	ALUMINUM VERTICAL MULLION (2" x 6" x 1/4")	6061-T6 ALUM
13	ALUMINUM ANGLE (2" x 2" x 1/4")	6061-T6 ALUM
16	DOOR MIDRAIL	6063-T5 ALUM



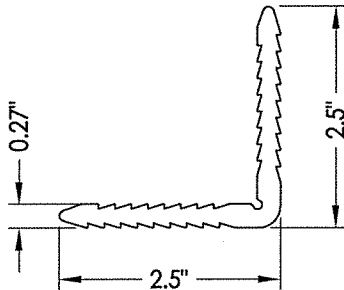
1 PATIO FRAME-08A



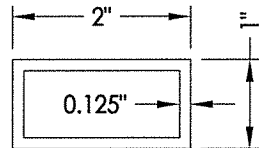
2 WINDOW COVER



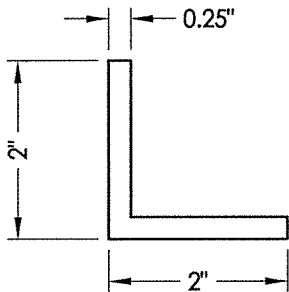
3 HURRICANE CLAMP



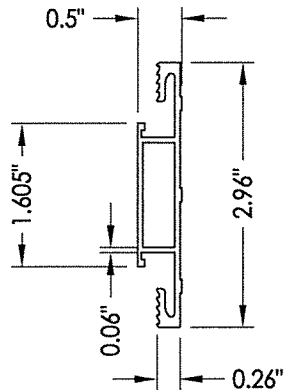
4 WINDOW CORNER



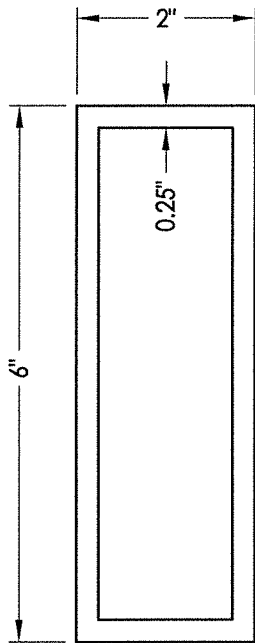
5 ALUMINUM HORIZONTAL MULLION



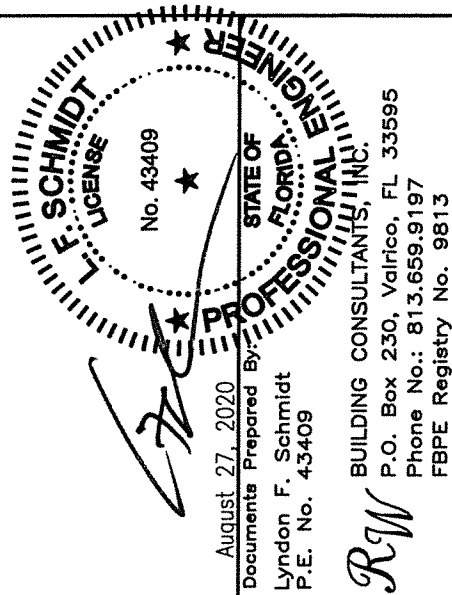
13 ALUMINUM ANGLE (L BRACKET)
4" LONG



16 DOOR MIDRAIL



12 ALUMINUM VERTICAL MULLION



PRODUCT:		HURRICANE SCREEN	
PART OR ASSEMBLY:		BILL OF MATERIALS & COMPONENTS	
NO.	DATE	BY	DATE
1	8/13/20	DAC	8/13/20
REVISIONS			
DATE: 4/11/19			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-29455.3			
SHEET 6 OF 6			