

ELITE STORM SYSTEMS
700 S. JOHN RODES BLVD.
MELBOURNE, FL 32904
PH. 321.690.1976

**THE ULTIMATE STORM PANEL
GALVANIZED STEEL**

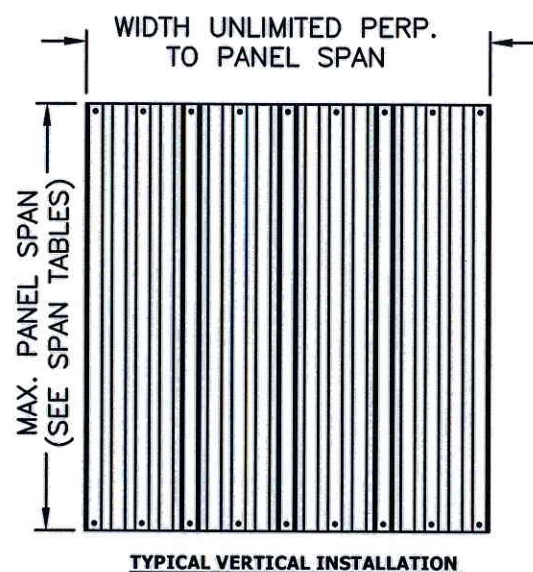
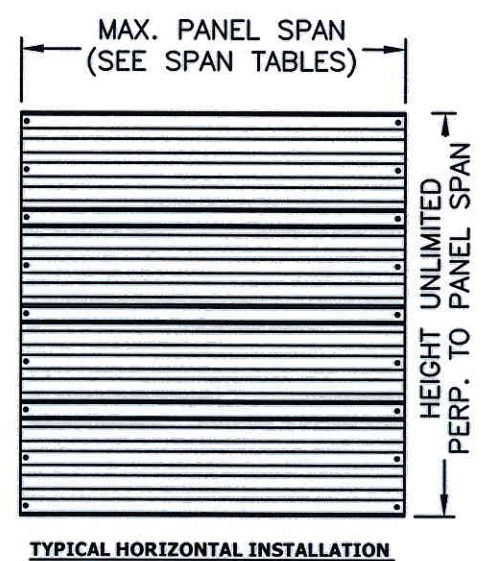
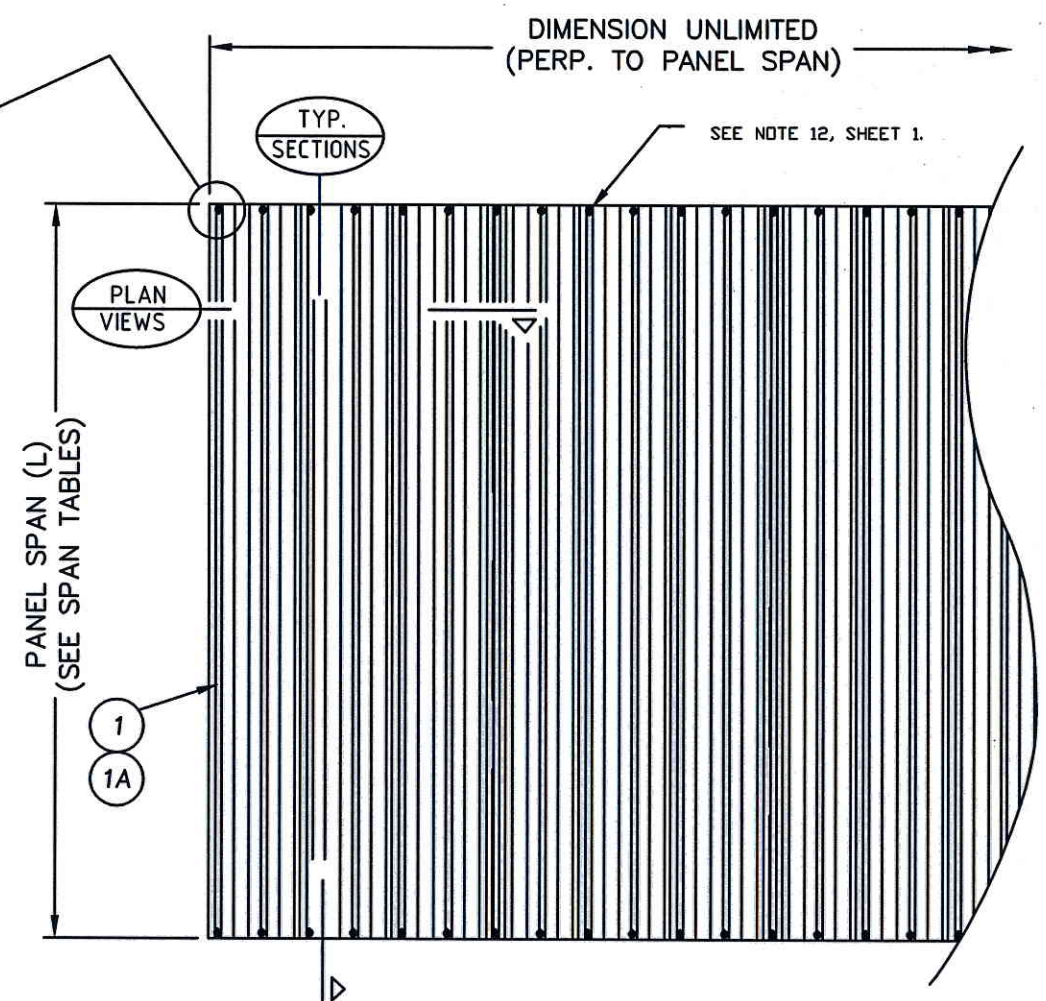
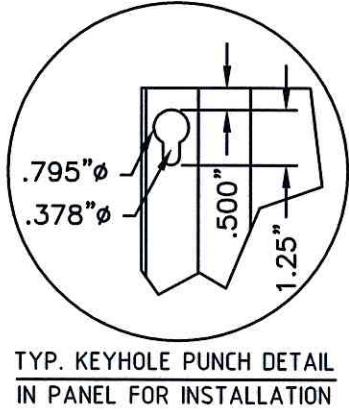
General Notes:

- 1. This system has been tested and evaluated as a large missile impact protective system in accordance with the requirements of the 2010 Florida Building Code (FBC) excluding the High Velocity Hurricane Zone. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Section 1609.1.2.4.
- 2. Positive and negative design pressures to be used with these drawings shall be determined by others for specific sites in accordance with the local governing code.
- 3. The system detailed herein is generic and does not provide information for a specific site. If site conditions deviate from the conditions detailed herein, a licensed engineer or registered architect shall prepare site specific documents to be used in conjunction with this document.
- 4. Product markings shall be rolled into each panel with spacing in between marking no greater than 36" and shall be labeled as follows:

Elite Storm Systems
Rockledge, FL
FBC Approval FL#10106.2
ASTM E 330-02
ASTM E 1886/1996-02 Missile Level D

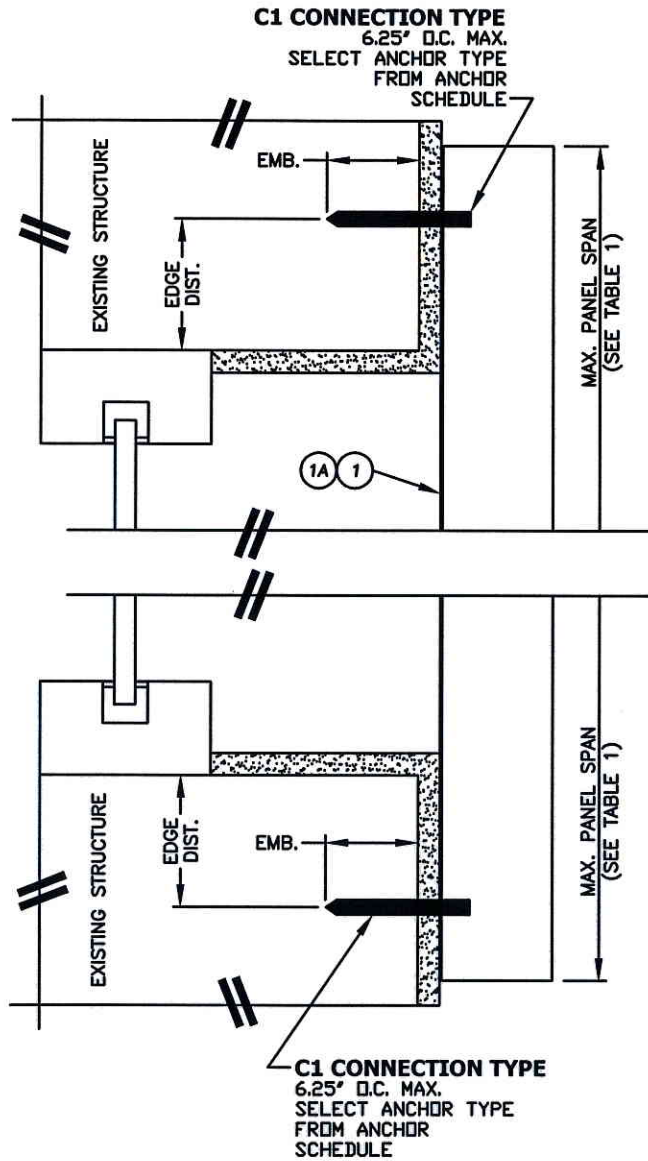
- 5. Galvanized steel storm panels shall be ASTM A653 SS Grade 80, 80 ksi minimum yield strength, tested thickness 0.022".
- 6. All extrusions shall be 6063-T6 aluminum alloy, unless noted otherwise.
- 7. All bolts & washers shall be zinc coated steel, galvanized steel, stainless steel, or 2024-T4 aluminum alloy with a minimum tensile yield strength of 33 ksi.
- 8. Permit holder shall verify the adequacy of the existing structure to withstand new superimposed loads.
- 9. Storm panels have been designed and tested to the maximum spans and loads shown on these drawings.
- 10. Top & bottom details shown may be interchanged as field conditions dictate. Panels may be mounted horizontally where applicable.
- 11. Panel attachment to studded angle (item #5) mounting hardware is at 12-1/2" o.c. maximum. All other panel attachments to mounting hardware are at 6-1/4" o.c. maximum. Direct mount of panel to structure is at 6-1/4" o.c. maximum.

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6	ANCHORING SCHEDULE - CONCRETE
7	ANCHORING SCHEDULE - HOLLOW BLOCK
8	ANCHORING SCHEDULE - WOOD
9	BILL OF MATERIALS & COMPONENTS



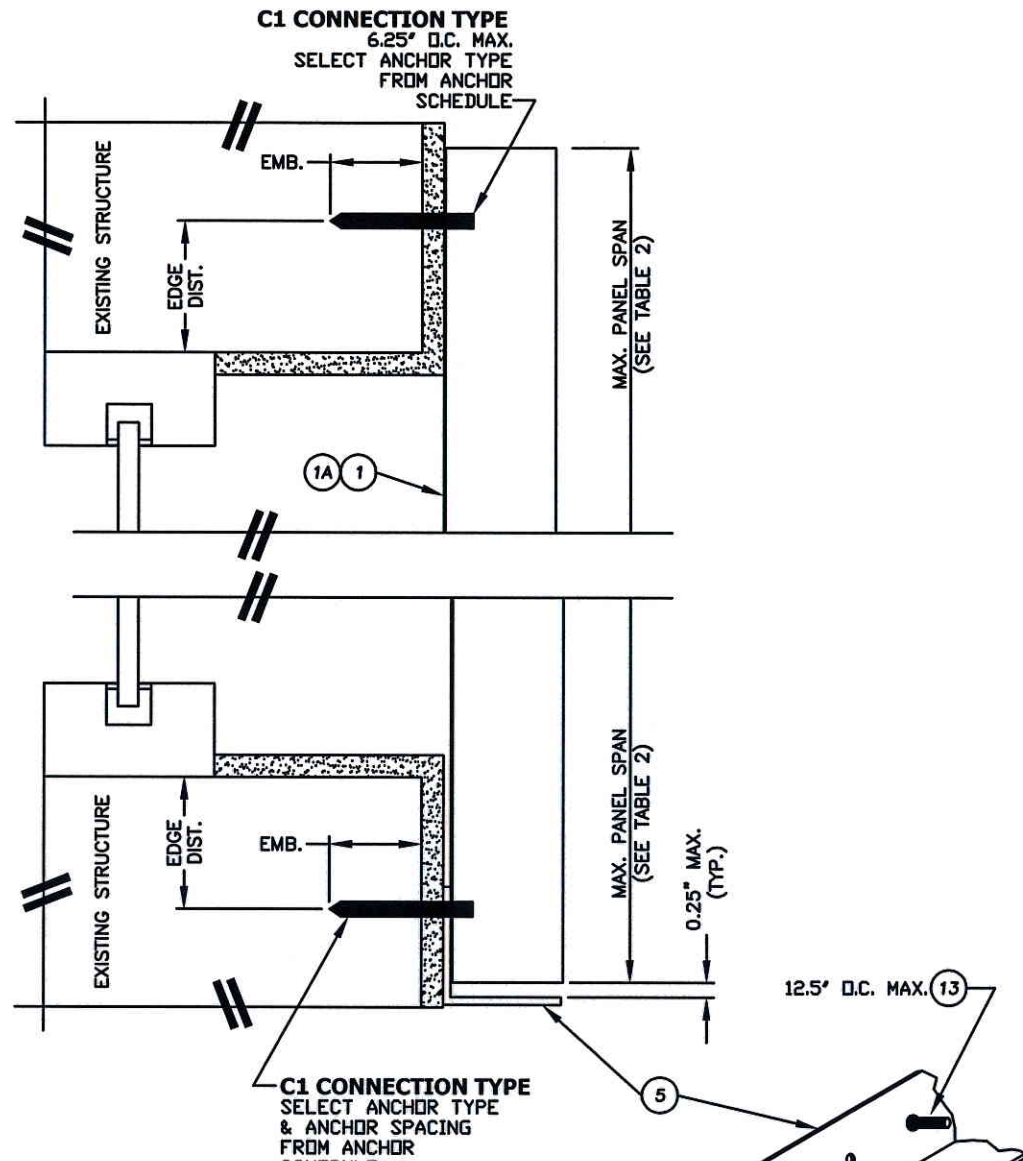
Documents Prepared By:
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Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
5.31.12
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT:		ELITE HURRICANE SHUTTERS GALV. STEEL STORM PANEL	
PART OR ASSEMBLY:		TYPICAL ELEVATIONS AND GENERAL NOTES	
DATE		1	05/22/12
NO.		1	DATE
BY		LFS	DATE
DATE:		2/4/08	
SCALE:		N.T.S.	
DWG. BY:		EW	
CHK. BY:		LFS	
DRAWING NO.:		FL-10106.2	
SHEET		1	OF 9



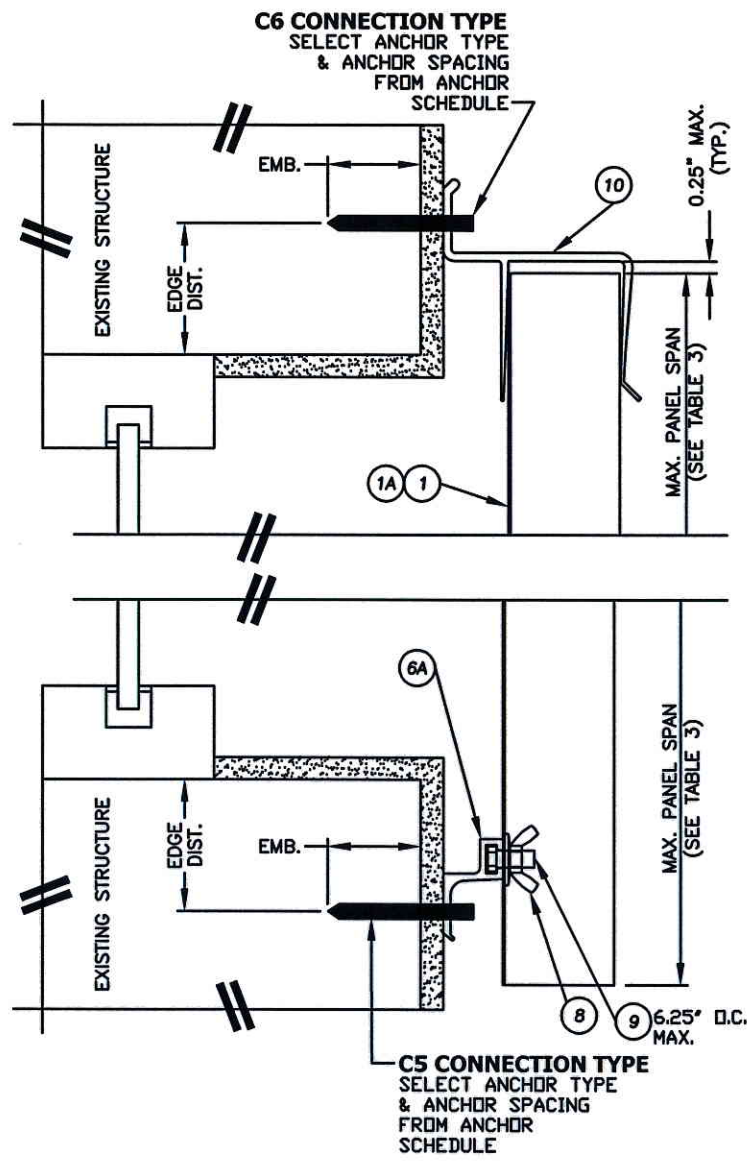
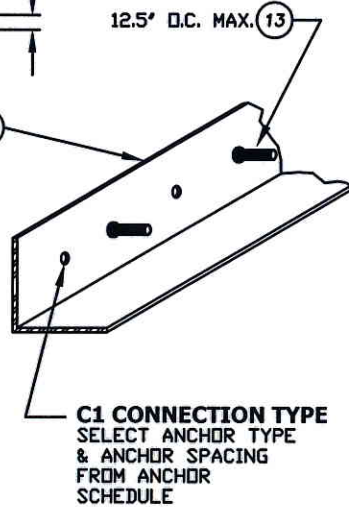
1 DIRECT MOUNT SECTION
TABLE 1 - PANEL SPAN
DIRECT MOUNT
ALLOWABLE DESIGN PRESSURES

PANEL SPAN (in)	ALLOWABLE DESIGN PRESSURE	
	(+) PSF	(-) PSF
144.0	50.0	50.0
132.0	52.5	52.5
120.0	56.0	56.0
108.0	59.0	59.0
106.0	60.0	60.0
96.0	66.0	66.0
84.0	75.5	75.5
72.0	88.0	88.0
60.0	106.0	106.0
0-53.0	120.0	120.0



2 STUDDED ANGLE MOUNT SECTION
TABLE 2 - PANEL SPAN
STudded ANGLE MOUNT
ALLOWABLE DESIGN PRESSURES

PANEL SPAN (in)	ALLOWABLE DESIGN PRESSURE	
	(+) PSF	(-) PSF
106.0	40.0	40.0
96.0	46.5	46.5
84.0	57.0	57.0
72.0	72.5	72.5
60.0	97.5	97.5
0-53.0	120.0	120.0



3 1" "F" HEADER + 1" OFFSET "F"
TRACK MOUNT SECTION
TABLE 3 - PANEL SPAN
1" "F" HEADER + 1" OFFSET "F" TRACK MOUNT
ALLOWABLE DESIGN PRESSURES

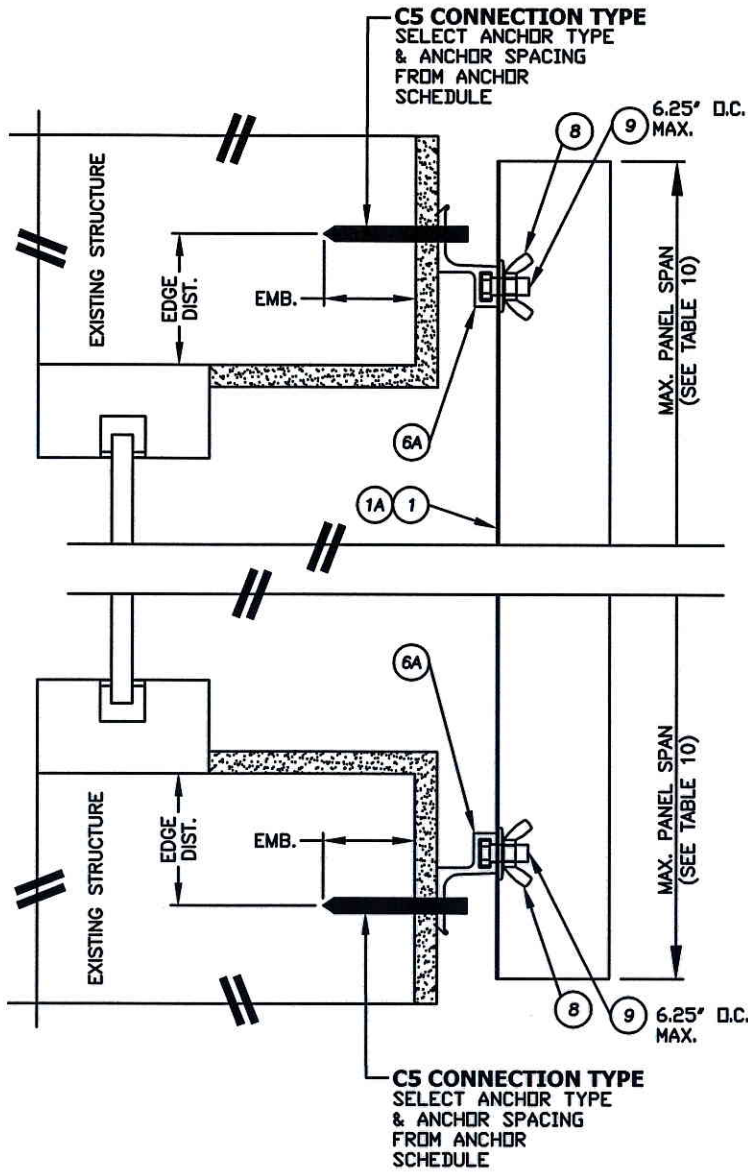
PANEL SPAN (in)	ALLOWABLE DESIGN PRESSURE	
	(+) PSF	(-) PSF
106.0	40.0	40.0
96.0	45.0	45.0
84.0	53.5	53.5
72.0	65.5	65.5
60.0	84.0	84.0
0-53.0	100.0	100.0

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Lyndon F. Schmidt, P.E. No. 43409

PRODUCT:
ELITE HURICANE SHUTTERS
GALV. STEEL STORM PANEL
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	
		LFS	BY
1	05/22/12	UPDATE TO 2010 FBC	

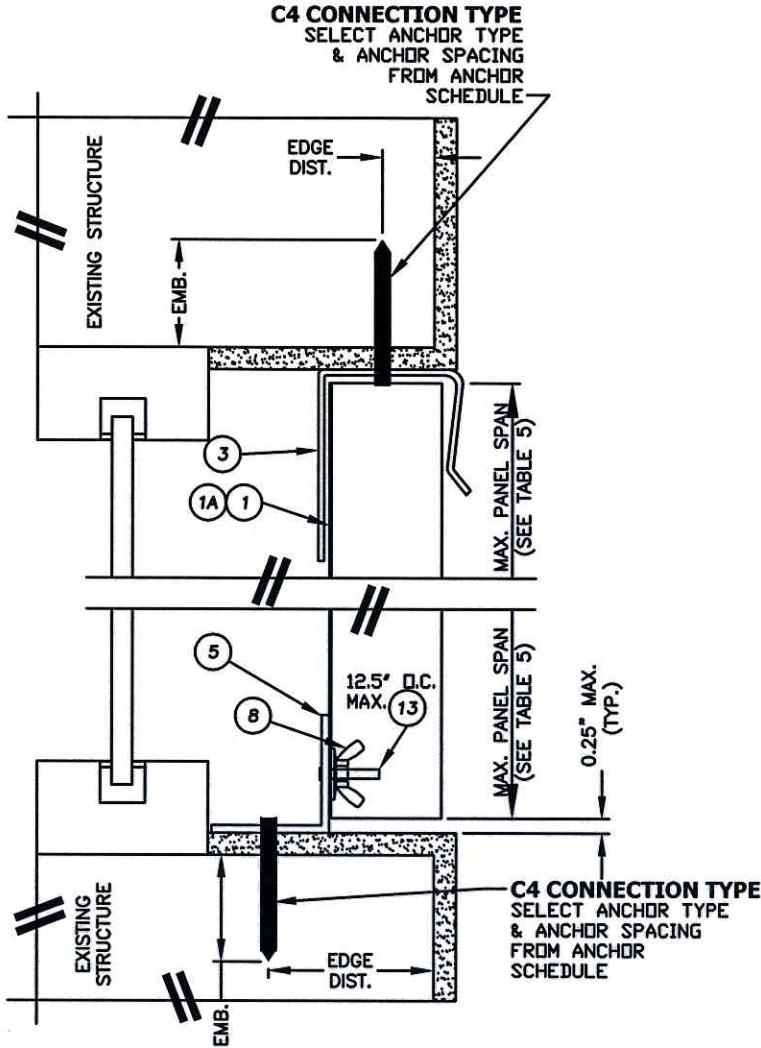
DATE: 2/4/08
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.:
FL-10106.2
SHEET 3 OF 9



4 1" OFFSET "F" TRACK MOUNT

TABLE 10 - PANEL SPAN
1" OFFSET "F" TRACK MOUNT
ALLOWABLE DESIGN PRESSURES

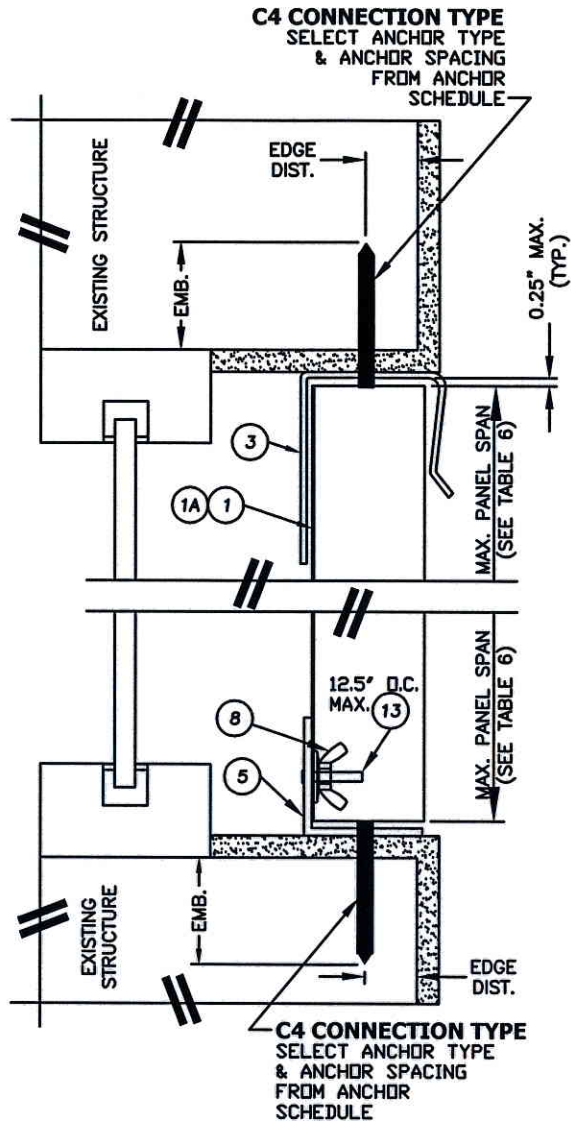
PANEL SPAN (in)	ALLOWABLE DESIGN PRESSURE	
	(+) PSF	(-) PSF
106.0	40.0	40.0
96.0	45.0	45.0
84.0	53.5	53.5
72.0	65.5	65.5
60.0	84.0	84.0
0-53.0	100.0	100.0



5 "U" HEADER + STUDDED
ANGLE MOUNT SECTION

TABLE 5 - PANEL SPAN
"U" HEADER + STUDDED ANGLE MOUNT
ALLOWABLE DESIGN PRESSURES

PANEL SPAN (in)	ALLOWABLE DESIGN PRESSURE	
	(+) PSF	(-) PSF
106.0	40.0	40.0
96.0	46.5	46.5
84.0	57.0	57.0
72.0	72.5	72.5
60.0	97.5	97.5
0-53.0	120.0	120.0



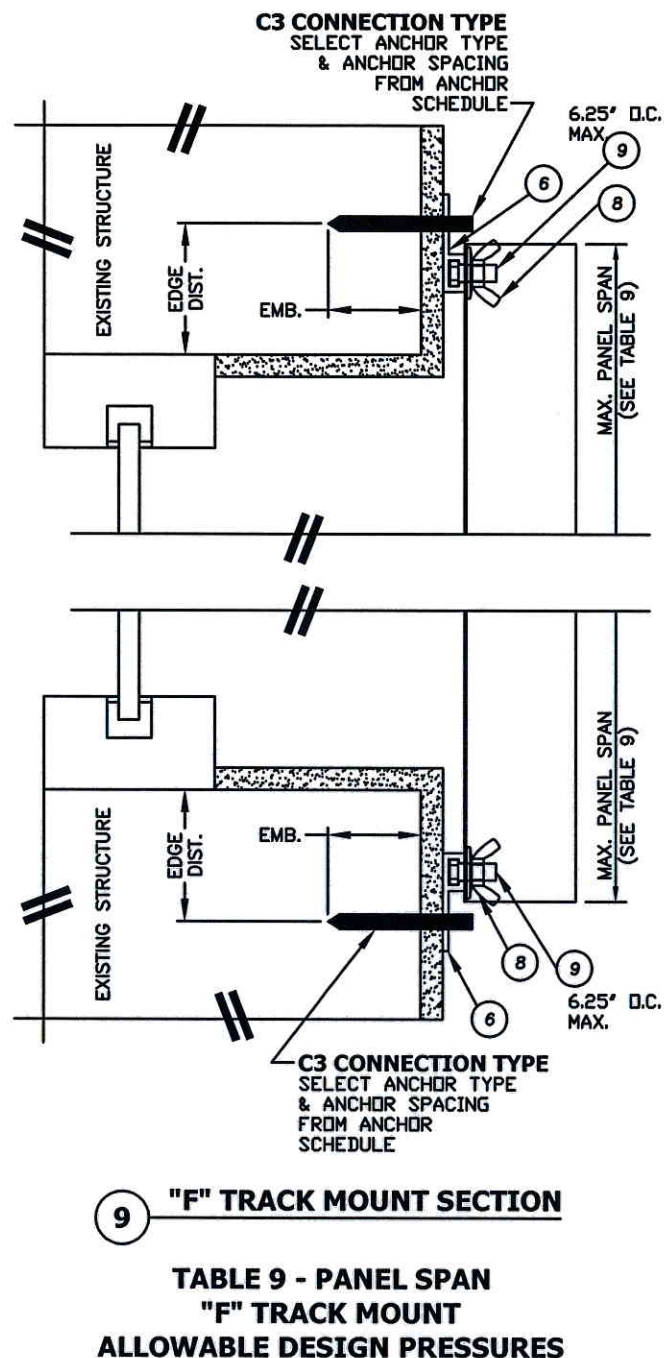
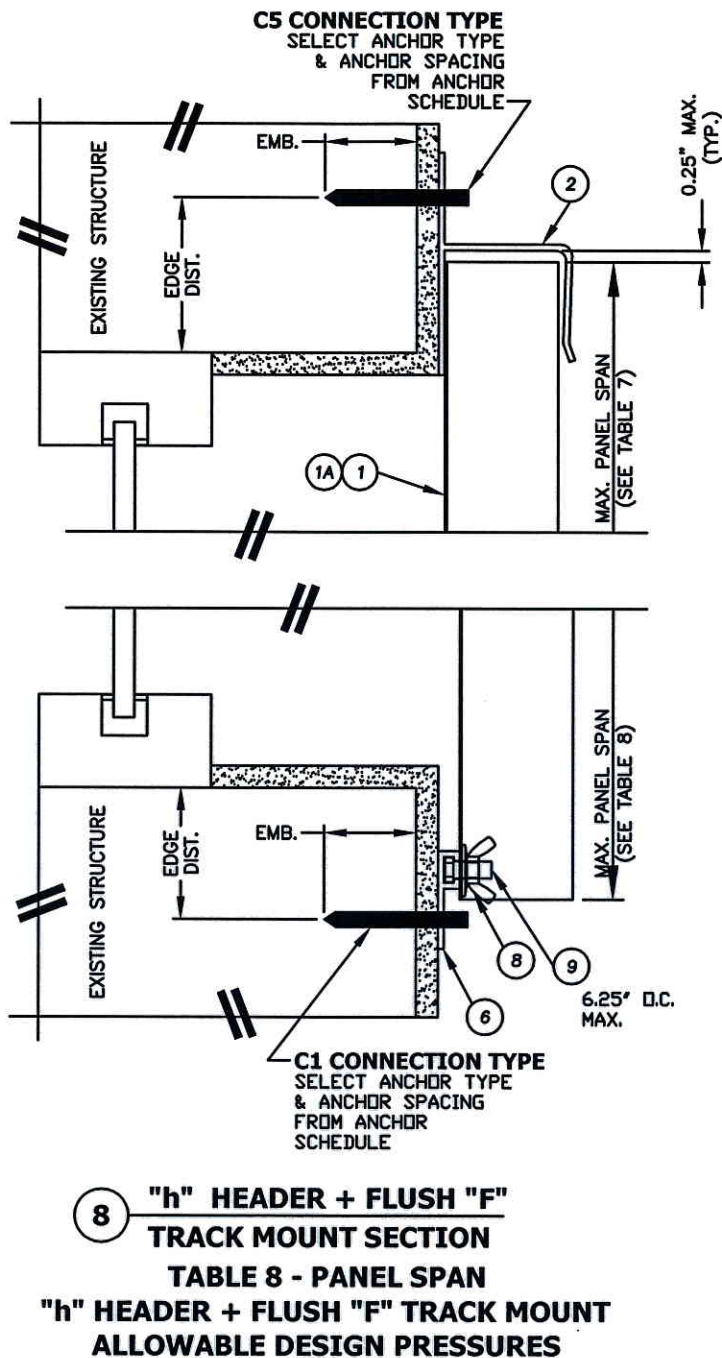
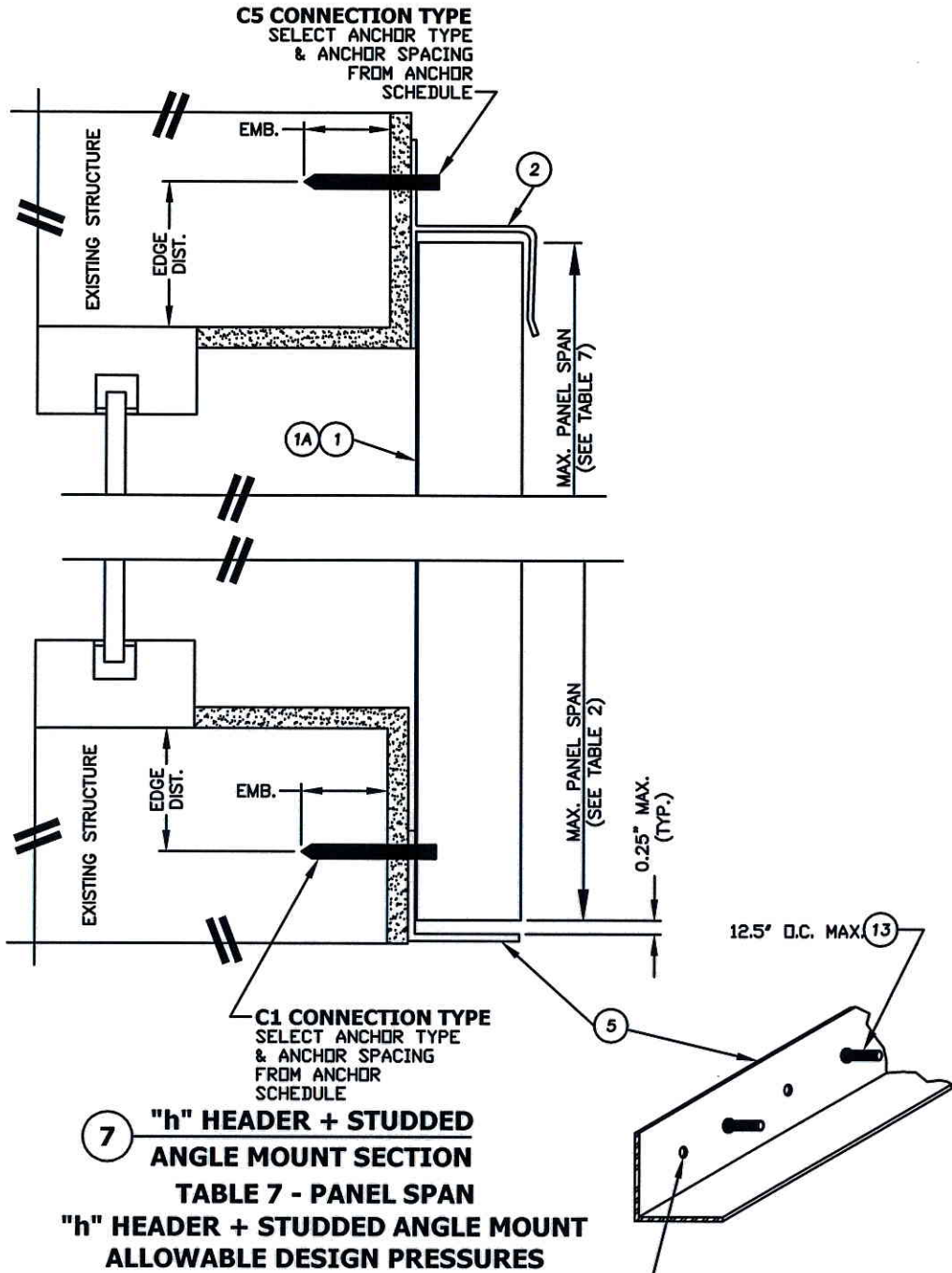
6 "U" HEADER + STUDDED
ANGLE MOUNT SECTION

TABLE 6 - PANEL SPAN
"U" HEADER + STUDDED ANGLE MOUNT
ALLOWABLE DESIGN PRESSURES

PANEL SPAN (in)	ALLOWABLE DESIGN PRESSURE	
	(+) PSF	(-) PSF
106.0	40.0	40.0
96.0	46.5	46.5
84.0	57.0	57.0
72.0	72.5	72.5
60.0	97.5	97.5
0-53.0	120.0	120.0

PRODUCT:		ELITE HURICANE SHUTTERS GALV. STEEL STORM PANEL	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	LFS	BY
	1 05/22/12		DATE
REVISIONS		DATE	
DATE:		2/4/08	
SCALE:		N.T.S.	
DWG. BY:		EW	
CHK. BY:		LFS	
DRAWING NO.:		FL-10106.2	
SHEET		4 OF 9	

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LF 5/31/12
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PRODUCT:
ELITE HURICANE SHUTTERS
GALV. STEEL STORM PANEL
PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
1	05/22/12	UPDATE TO 2010 FBC

DATE: 2/4/08
SCALE: N.T.S.
DWG. BY: EW
CHK. BY: LFS
DRAWING NO.:
FL-10106.2
SHEET 5 OF 9

ANCHOR SCHEDULE																							
FASTENER MAX. SPACING (IN.) REQ'D FOR VARIOUS DESIGN LOADS AND SPANS																							
EXISTING STRUCTURE	ANCHOR TYPE	INSTALLATION DETAILS																					
		EDGE DISTANCE (SEE NOTE 1)	LOAD PSF MAX. (SEE NOTE 1)	SPANS UP TO 53" (SEE NOTE 1)						SPANS UP TO 106" (SEE NOTE 1)						SPANS UP TO 144" (SEE NOTE 1)							
				CONNECTION TYPE						CONNECTION TYPE						CONNECTION TYPE							
				C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6		
CONCRETE	 1/4"Ø ITW TAPCON EM = 1.75" CL = 3.0" Fc = 3192 PSI	ED = 2.5"	40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.6	16.0	13.3	16.0							
			55	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.8	11.3	12.3	9.7	16.0						
			70	16.0	16.0	16.0	16.0	16.0	15.2	16.0	16.0	12.4	8.9	9.6	7.6	16.0							
			85	16.0	16.0	16.0	14.7	15.9	12.5	16.0	13.5	10.2	7.3	7.9	6.2	13.5							
			100	16.0	16.0	16.0	12.5	13.5	10.7	15.6	11.5	8.7	6.2	6.7	5.3	11.5							
			110	16.0	16.0	15.8	11.3	12.3	9.7	14.2	10.4	7.9	5.6	6.1	4.8	10.4							
			120	16.0	16.0	14.5	10.4	11.3	8.9	13.0	9.5	7.2	5.2	5.6	4.4	9.5							
	 1/4"Ø ELCO ULTRACON EM = 1.75" CL = 4.0" Fc = 2846 PSI	ED = 2.5"	40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.6	14.0	11.0	16.0						
			55	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	13.1	11.3	10.1	8.0	16.0							
			70	16.0	16.0	16.0	16.0	16.0	12.6	16.0	13.5	10.3	8.9	8.0	6.3	13.5							
			85	16.0	16.0	16.0	14.6	13.1	10.4	15.1	11.1	8.4	7.3	6.5	5.2	11.1							
			100	16.0	16.0	14.4	12.4	11.2	8.8	12.9	9.5	7.2	6.2	5.6	4.4	9.5							
			110	16.0	16.0	13.1	11.3	10.1	8.0	11.7	8.6	6.5	5.6	5.0	4.0	8.6							
			120	16.0	15.8	12.0	10.4	9.3	7.3	10.7	7.9	6.0	5.2	4.6	7.9								
	 1/4"Ø ELCO MALE/ FEMALE "PANELMATE" EM = 2.0" CL = 3.0" Fc = 3350 PSI	ED = 2.5"	40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.2	16.0							
			55	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.5	13.1	10.3	16.0							
			70	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	13.3	11.4	10.3	8.1	16.0							
			85	16.0	16.0	16.0	16.0	16.0	13.4	16.0	14.4	10.9	9.4	8.5	6.7	14.4							
			100	16.0	16.0	16.0	16.0	14.4	11.4	16.0	12.2	9.3	8.0	7.2	5.7	12.2							
			110	16.0	16.0	16.0	14.5	13.1	10.3	15.1	11.1	8.4	7.2	6.5	5.1	11.1							
			120	16.0	16.0	15.5	13.3	12.0	9.5	13.9	10.2	7.7	6.6	6.0	4.7	10.2							
	 1/4"Ø ITW "SAMMYS SSC" EM = 2.0" CL = 3.0" Fc = 3295 PSI	ED = 2.5"	40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0							
			55	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	13.1	15.4	12.2	16.0						
			70	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.6	10.3	12.1	9.5	16.0						
85			16.0	16.0	16.0	16.0	16.0	15.7	16.0	16.0	12.8	8.4	10.0	7.8	16.0								
100			16.0	16.0	16.0	14.4	16.0	13.4	16.0	14.4	10.9	7.2	8.5	6.7	14.4								
110			16.0	16.0	16.0	13.1	15.4	12.2	16.0	13.1	9.9	6.5	7.7	6.1	13.1								
120			16.0	16.0	16.0	12.0	14.1	11.1	16.0	12.0	9.1	6.0	7.0	5.5	12.0								
 5/16"Ø ITW TAPCON XL EM = 1.75" CL = 3.75" Fc = 3000 PSI	ED = 3.0"	40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	13.0	16.0							
		55	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.5	14.6	12.0	9.5	16.0							
		70	16.0	16.0	16.0	16.0	16.0	14.9	16.0	16.0	12.1	11.4	9.4	7.4	16.0								
		85	16.0	16.0	16.0	16.0	15.6	12.3	16.0	13.2	10.0	9.4	7.8	6.1	13.2								
		100	16.0	16.0	16.0	16.0	13.2	10.4	15.2	11.2	8.5	8.0	6.6	5.2	11.2								
		110	16.0	16.0	15.5	14.6	12.0	9.5	13.8	10.2	7.7	7.3	6.0	4.7	10.2								
		120	16.0	16.0	14.2	13.4	11.0	8.7	12.7	9.3	7.1	6.7	5.5	4.3	9.3								
 ALL POINTS 1/4"Ø SOLID SET EM = 0.875" CL = 3" Fc = 3000 PSI	ED = 2.0"	40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.3	12.4	9.8	16.0								
		55	16.0	16.0	16.0	16.0	16.0	14.2	16.0	15.3	11.6	10.4	9.0	7.1	15.3								
		70	16.0	16.0	16.0	16.0	14.2	11.2	16.0	12.0	9.1	8.1	7.1	5.6	12.0								
		85	16.0	16.0	15.0	13.4	11.7	9.2	13.4	9.9	7.5	6.7	5.8	4.6	9.9								
		100	16.0	16.0	12.8	11.4	9.9	7.8	11.4	8.4	6.4	5.7	4.9	3.9	8.4								
		110	16.0	15.3	11.6	10.4	9.0	7.1	10.4	7.6	5.8	5.2	4.5	3.5	7.6								
		120	16.0	14.0	10.6	9.5	8.3	6.5	9.5	7.0	5.3	4.7	4.1	3.2	7.0								

MASONRY ANCHOR SCHEDULE NOTES:

1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN THE SPAN TABLES.
2. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
3. TO USE THE ANCHOR SCHEDULE, FIRST DETERMINE THE DESIGN PRESSURE, SPAN AND CONNECTION TYPE FOR THE SPECIFIC OPENING BEING PROTECTED. ENTER ANCHOR SCHEDULE AT A LOAD EQUAL TO OR GREATER THAN THE REQUIREMENT AND A SPAN EQUAL TO OR GREATER THAN THE REQUIREMENT; USE THE ANCHOR SPACING LISTED FOR THE SPECIFIC CONNECTION TYPE AND ANCHOR SELECTED.
4. LINEAR INTERPOLATION IS ALLOWED FOR INTERMEDIATE FASTENER SPACING AND LOADS.
5. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFER TO ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
6. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S RECOMMENDATIONS.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH, WALL COVERINGS, STUCCO AND SIMILAR MATERIALS.
8. WASHERED WINGNUTS AND LOCKNUTS SHALL BE INSTALLED SUCH THAT THE NUT IS FLUSH WITH THE THREADED STUD OR BOLT, MINIMUM. SIDEWALK SCREWS (WAFFER HEAD SCREWS) SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR U.O.N.
9.  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
10. SEE THE COMPONENT DETAILS SHEET FOR LOCATION OF ANCHOR POINTS ON EACH TYPE OF MOUNTING HARDWARE.

Documents Prepared By:

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Florida Board of Professional Engineers
Certificate Of Professional No. 9813
ESD 5.31.12
Lyndon F. Schmidt, P.E. NO. 13409

Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT:

**ELITE HURRICANE SHUTTERS
GALV. STEEL STORM PANEL**

PART OR ASSEMBLY:

ANCHOR SCHEDULE - CONCRETE

BY
S47

REVISIONS

DATE: 2/4/08

SCALE: N.T.S.

DWG. BY: *EW*

CHK. BY: LFS

DRAWING NO.:

FL-10106.2

SHEET 6 OF 9

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ANCHOR SCHEDULE																												
FASTENER MAX. SPACING (IN.) REQ'D FOR VARIOUS DESIGN LOADS AND SPANS																												
EXISTING STRUCTURE	ANCHOR TYPE	EDGE DISTANCE (SEE NOTE 1)	LOAD PSF MAX. (SEE NOTE 1)	INSTALLATION DETAILS																								
				SPANS UP TO 53" (SEE NOTE 1)						SPANS UP TO 84" (SEE NOTE 1)						SPANS UP TO 106" (SEE NOTE 1)						SPANS UP TO 144" (SEE NOTE 1)						
				CONNECTION TYPE						CONNECTION TYPE						CONNECTION TYPE						CONNECTION TYPE						
				C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	
HOLLOW CONCRETE BLOCK		ED = 2.5"	40	16.0	16.0	14.8	15.2	11.5	9.0	16.0	12.3	9.3	9.6	7.2	5.7	13.2	9.7	7.4	7.6	5.7	4.5	9.7						
			55	16.0	14.1	10.7	11.0	8.3	6.6	12.1	8.9	6.7	6.9	5.2	4.1	9.6	7.0	5.3	5.5	4.1	3.3	7.0						
			70	15.1	11.1	8.4	8.7	6.5	5.1	9.5	7.0	5.3	5.4	4.1	3.2	7.5	5.5	4.2	4.3	3.2								
			85	12.4	9.1	6.9	7.1	5.4	4.2	7.8	5.7	4.3	4.5	3.4		6.2	4.5	3.4	3.5									
			100	10.5	7.8	5.9	6.0	4.6	3.6	6.6	4.9	3.7	3.8			5.2	3.9		3.0									
			110	9.6	7.0	5.3	5.5	4.1	3.3	6.0	4.4	3.3	3.4			4.8	3.5											
		ED = 2.5"	40	16.0	14.0	10.6	11.9	8.2	6.5	12.0	8.8	6.7	7.5	5.2	4.1	9.5	7.0	5.3	5.9	4.1	3.2	7.0						
			55	13.8	10.1	7.7	8.9	6.0	4.7	8.7	6.4	4.8	5.6	3.7		6.9	5.0	3.8	4.4	3.0								
			70	10.8	8.0	6.0	8.3	4.7	3.7	6.8	5.0	3.8	5.2			5.4	4.0	3.0	4.1									
			85	8.9	6.5	5.0	6.1	3.8	3.0	5.6	4.1	3.1	3.8			4.4	3.2		3.0									
			100	7.6	5.6	4.2	4.9	3.3		4.8	3.5		3.1			3.8												
			110	6.9	5.0	3.8	3.7	3.0		4.3	3.2					3.4												
		ED = 2.0"	40	16.0	16.0	16.0	16.0	16.0	12.6	16.0	16.0	13.0	13.9	10.1	7.9	16.0	13.6	10.3	11.0	8.0	6.3	13.1						
			55	16.0	16.0	15.0	16.0	11.6	9.2	16.0	12.4	9.4	10.4	7.3	5.8	13.4	9.8	7.5	8.2	5.8	4.6	9.5						
			70	16.0	15.5	11.8	15.4	9.1	7.2	13.3	9.8	7.4	9.7	5.7	4.5	10.5	7.7	5.9	7.7	4.5	3.6	7.4						
			85	16.0	12.8	9.7	11.3	7.5	5.9	10.9	8.0	6.1	7.1	4.7	3.7	8.6	6.4	4.8	5.6	3.7								
			100	14.7	10.8	8.2	9.1	6.4	5.0	9.3	6.8	5.2	5.7	4.0	3.1	7.3	5.4	4.1	4.5	3.2								
			110	13.4	9.8	7.5	6.9	5.8	4.6	8.4	6.2	4.7	4.3	3.6		6.7	4.9	3.7	3.4									
		ED = 1.5"	40	16.0	16.0	16.0	16.0	16.0	13.0	16.0	16.0	13.4	15.9	10.4	8.2	16.0	14.0	10.6	12.6	8.2	6.5	14.0						
			55	16.0	16.0	16.0	15.4	12.0	9.4	16.0	12.8	9.7	11.9	7.5	5.9	13.8	10.1	7.7	9.4	6.0	4.7	10.1						
			70	16.0	16.0	16.0	12.1	9.4	7.4	13.7	10.0	7.6	11.1	5.9	4.6	10.8	8.0	6.0	8.8	4.7	3.7	8.0						
			85	16.0	13.1	13.1	10.0	7.7	6.1	11.2	8.3	6.3	8.2	4.9	3.8	8.9	6.5	5.0	6.5	3.8	3.0	6.5						
			100	15.2	11.2	11.2	8.5	6.6	5.2	9.6	7.0	5.3	6.5	4.1	3.2	7.6	5.6	4.2	5.2	3.3								
			110	13.8	10.1	10.1	7.7	6.0	4.7	8.7	6.4	4.8	5.0	3.7		6.9	5.0	3.8	3.9	3.0								
		ED = 2.0"	40	16.0	16.0	16.0	16.0	16.0	13.3	16.0	16.0	13.7	12.1	10.6	8.4	16.0	14.3	10.8	9.6	8.4	6.6	14.3						
			55	16.0	16.0	15.7	14.4	12.2	9.6	16.0	13.1	9.9	9.1	7.7	6.1	14.1	10.4	7.8	7.2	6.1	4.8	10.4						
			70	16.0	16.0	12.4	13.5	9.6	7.6	14.0	10.3	7.8	8.5	6.0	4.8	11.1	8.1	6.2	6.7	4.8	3.8	8.1						
			85	16.0	13.4	10.2	9.9	7.9	6.2	11.5	8.4	6.4	6.2	5.0	3.9	9.1	6.7	5.1	4.9	3.9	3.1	6.7						
100			15.5	11.4	8.6	7.9	6.7	5.3	9.8	7.2	5.4	5.0	4.2	3.3	7.7	5.7	4.3	3.9	3.3									
110			14.1	10.4	7.8	6.0	6.1	4.8	8.9	6.5	4.9	3.8	3.8	3.0	7.0	5.2	3.9	3.0	3.0									
120			12.9	9.5	7.2	5.3	5.6	4.4	8.1	6.0	4.5	3.3	3.5		6.4	4.7	3.6											

MASONRY ANCHOR SCHEDULE NOTES:

- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN THE SPAN TABLES.
- SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
- TO USE THE ANCHOR SCHEDULE, FIRST DETERMINE THE DESIGN PRESSURE, SPAN AND CONNECTION TYPE FOR THE SPECIFIC OPENING BEING PROTECTED. ENTER ANCHOR SCHEDULE AT A LOAD EQUAL TO OR GREATER THAN THE REQUIREMENT AND A SPAN EQUAL TO OR GREATER THAN THE REQUIREMENT; USE THE ANCHOR SPACING LISTED FOR THE SPECIFIC CONNECTION TYPE AND ANCHOR SELECTED.
- LINEAR INTERPOLATION IS ALLOWED FOR INTERMEDIATE FASTENER SPACING AND LOADS.
- EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFER TO ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S RECOMMENDATIONS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH, WALL COVERINGS, STUCCO AND SIMILAR MATERIALS.
- WASHERED WINGNUTS AND LOCKNUTS SHALL BE INSTALLED SUCH THAT THE NUT IS FLUSH WITH THE THREADED STUD OR BOLT, MINIMUM. SIDEWALK SCREWS (WAFFER HEAD SCREWS) SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR U.O.N.
-  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
- SEE THE COMPONENT DETAILS SHEET FOR LOCATION OF ANCHOR POINTS ON EACH TYPE OF MOUNTING HARDWARE.

Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
LS 5.26.12
Lyndon F. Schmidt, P.E. NO. 43408

PRODUCT:		ELITE HURRICANE SHUTTERS GALV. STEEL STORM PANEL	
		PART OR ASSEMBLY: ANCHOR SCHEDULE - HOLLOW BLOCK	
		LFS	BY
		1	05/22/12
		NO	DATE
REVISIONS			
DATE: 2/4/08			
SCALE: N.T.S.			
DWG. BY: EW			
CHK. BY: LFS			
DRAWING NO.: FL-10106.2			
SHEET 7 OF 9			

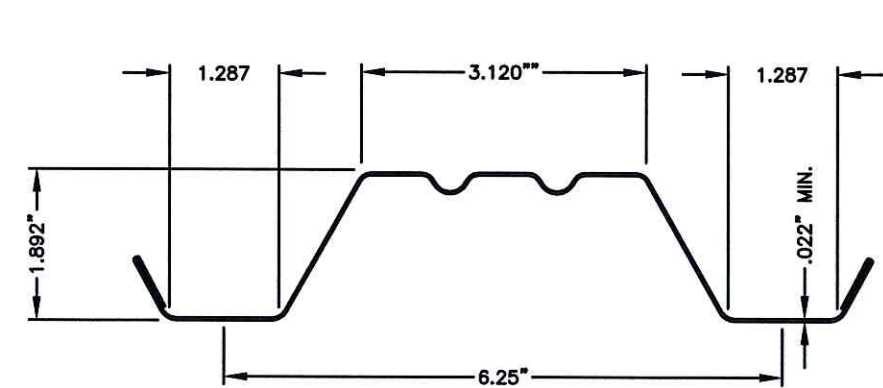
ANCHOR SCHEDULE																				
FASTENER MAX. SPACING (IN.) REQ'D FOR VARIOUS DESIGN LOADS AND SPANS																				
EXISTING STRUCTURE	ANCHOR TYPE	INSTALLATION DETAILS																		
		LOAD PSF MAX. (SEE NOTE 1)	SPANS UP TO 53" (SEE NOTE 1)						SPANS UP TO 106" (SEE NOTE 1)						SPANS UP TO 144" (SEE NOTE 1)					
			CONNECTION TYPE						CONNECTION TYPE						CONNECTION TYPE					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
WOOD (G >= 0.55) (SOUTHERN YELLOW PINE)		40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	13.6	16.0	15.3	16.0	16.0				
		55	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	9.8	14.1	11.1	16.0					
		70	16.0	16.0	16.0	15.5	16.0	16.0	16.0	16.0	14.2	7.7	11.0	8.7	16.0					
		85	16.0	16.0	16.0	12.8	16.0	14.4	16.0	15.4	11.7	6.4	9.1	7.2	15.4					
		100	16.0	16.0	16.0	10.8	15.5	12.2	16.0	13.1	9.9	5.4	7.7	6.1	13.1					
		110	16.0	16.0	16.0	9.8	14.1	11.1	16.0	11.9	9.0	4.9	7.0	5.5	11.9					
		120	16.0	16.0	16.0	9.0	12.9	10.2	14.8	10.9	8.3	4.5	6.4	5.1	10.9					
		40	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	8.1	16.0	14.4	16.0					
		55	16.0	16.0	16.0	11.8	16.0	16.0	16.0	16.0	16.0	5.9	13.3	10.5	16.0					
		70	16.0	16.0	16.0	9.2	16.0	16.0	16.0	16.0	13.4	4.6	10.4	8.2	16.0					
		85	16.0	16.0	16.0	7.6	16.0	13.6	16.0	14.6	11.0	3.8	8.6	6.8	14.6					
		100	16.0	16.0	16.0	6.4	14.6	11.5	16.0	12.4	9.4	3.2	7.3	5.7	12.4					
		110	16.0	16.0	16.0	5.9	13.3	10.5	15.3	11.2	8.5	2.9	6.6	5.2	11.2					
		120	16.0	16.0	15.7	5.4	12.2	9.6	14.0	10.3	7.8	2.7	6.1	4.8	10.3					
		40	16.0	16.0	16.0	14.5	16.0	16.0	16.0	16.0	14.8	7.2	11.5	9.1	16.0					
		55	16.0	16.0	16.0	10.6	16.0	13.2	16.0	14.2	10.8	5.3	8.4	6.6	14.2					
		70	16.0	16.0	16.0	8.3	13.2	10.4	15.2	11.2	8.5	4.1	6.6	5.2	11.2					
		85	16.0	16.0	14.0	6.8	10.8	8.5	12.5	9.2	7.0	3.4	5.4	4.2	9.2					
		100	16.0	15.6	11.9	5.8	9.2	7.2	10.6	7.8	5.9	2.9	4.6	3.6	7.8					
		110	16.0	14.2	10.8	5.3	8.4	6.6	9.6	7.1	5.4	2.6	4.2	3.3	7.1					
		120	16.0	13.0	9.9	4.8	7.7	6.0	8.8	6.5	4.9	2.4	3.8	3.0	6.5					
		40	16.0	16.0	16.0	14.5	16.0	16.0	16.0	16.0	14.8	7.2	11.5	9.1	16.0					
		55	16.0	16.0	16.0	10.6	16.0	13.2	16.0	14.2	10.8	5.3	8.4	6.6	14.2					
		70	16.0	16.0	16.0	8.3	13.2	10.4	15.2	11.2	8.5	4.1	6.6	5.2	11.2					
		85	16.0	16.0	14.0	6.8	10.8	8.5	12.5	9.2	7.0	3.4	5.4	4.2	9.2					
		100	16.0	15.6	11.9	5.8	9.2	7.2	10.6	7.8	5.9	2.9	4.6	3.6	7.8					
		110	16.0	14.2	10.8	5.3	8.4	6.6	9.6	7.1	5.4	2.6	4.2	3.3	7.1					
		120	16.0	13.0	9.9	4.8	7.7	6.0	8.8	6.5	4.9	2.4	3.8	3.0	6.5					

EM = MINIMUM EMBEDMENT (PENETRATION)
CL = MINIMUM CENTER TO CENTER ANCHOR SPACING

WOOD ANCHOR SCHEDULE NOTES:

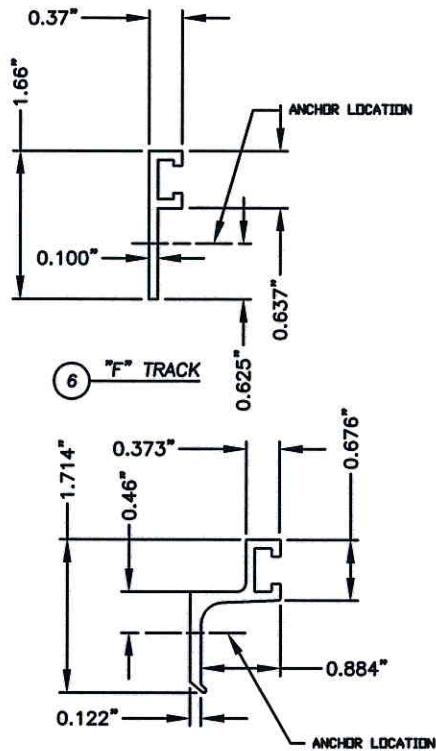
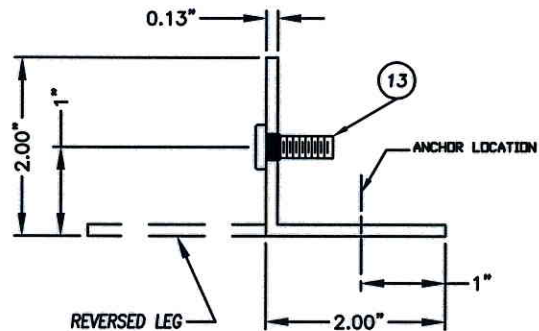
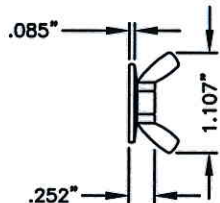
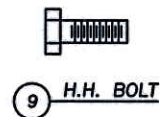
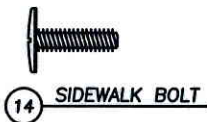
1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN THE SPAN TABLES.
2. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
3. TO USE THE ANCHOR SCHEDULE, FIRST DETERMINE THE DESIGN PRESSURE, SPAN AND CONNECTION TYPE FOR THE SPECIFIC OPENING BEING PROTECTED. ENTER ANCHOR SCHEDULE AT A LOAD EQUAL TO OR GREATER THAN THE REQUIREMENT AND A SPAN EQUAL TO OR GREATER THAN THE REQUIREMENT; USE THE ANCHOR SPACING LISTED FOR THE SPECIFIC CONNECTION TYPE AND ANCHOR SELECTED.
4. LINEAR INTERPOLATION IS ALLOWED FOR INTERMEDIATE FASTENER SPACING AND LOADS.
5. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFER TO ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
6. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S RECOMMENDATIONS.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH, WALL COVERINGS, STUCCO AND SIMILAR MATERIALS.
8. WASHERED WINGNUTS AND LOCKNUTS SHALL BE INSTALLED SUCH THAT THE NUT IS FLUSH WITH THE THREADED STUD OR BOLT, MINIMUM. SIDEWALK SCREWS (WAFFER HEAD SCREWS) SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR U.O.N.
9. DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
10. SEE THE COMPONENT DETAILS SHEET FOR LOCATION OF ANCHOR POINTS ON EACH TYPE OF MOUNTING HARDWARE.
10. ANCHORS INSTALLED INTO THE 1.5" FACE OF 2X FRAMING SHALL BE IN THE CENTER OF THE 1.5" FACE (.75" EDGE DISTANCE). ANCHORS SHALL BE A MINIMUM OF 2" FROM ENDS OF 2X FRAMING.
11. FOR CONNECTION TYPE "C4", ANCHORS SHALL BE INSTALLED A MINIMUM OF 1" FROM THE LOADED EDGE OF 2X FRAMING AND A MINIMUM OF 2" FROM THE ENDS OF 2X FRAMING.
12. FIELD VERIFY THAT ANCHORS ARE INTO ADEQUATE STRUCTURAL WOOD FRAMING MEMBERS AND NOT INTO PLYWOOD, OSB OR OTHER SIMILAR MATERIALS.
13. SPECIFIC GRAVITY (G = 0.55) IS FOR SOUTHERN YELLOW PINE.

Documents Prepared By:		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 <i>LF 5/31/12</i> Lyndon F. Schmidt, P.E. NO. 43409	
PRODUCT:		ELITE HURRICANE SHUTTERS GALV. STEEL STORM PANEL	
PART OR ASSEMBLY:		ANCHOR SCHEDULE - WOOD	
NO.		DATE	
1		05/22/12	
LFS		BY	
NO.		DATE	
1		05/22/12	
LFS		BY	
DATE:		2/4/08	
SCALE:		N.T.S.	
DWG. BY:		EW	
CHK. BY:		LFS	
DRAWING NO.:		FL-10106.2	
SHEET		8 OF 9	

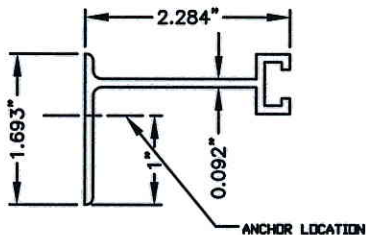


1A GALV. STEEL STORM 1/2 PANEL PROFILE

ITEM	DESCRIPTION	MATERIAL
1	GALV. STEEL STORM PANEL (0.022" MIN. THK) ASTM A653 SS GRADE 80, Fy = 80 KSI MIN.	STEEL
1A	GALV. ST'L STORM 1/2 PANEL (0.022" MIN. THK.) ASTM A653 SS GRADE 80, Fy = 80 KSI MIN.	STEEL
2	"h" HEADER	ALUMINUM
3	EXPANDED "U" HEADER	ALUMINUM
5	2" x 2" ANGLE	ALUMINUM
6	"F" TRACK	ALUMINUM
6A	1" BUILD-OUT "F" TRACK	ALUMINUM
6B	2" BUILD-OUT "F" TRACK	ALUMINUM
8	WASHERED WINGNUT	STEEL
9	1/4-20 x 3/4" H.H. BOLT	S.S.
10	1" BUILD OUT "F" HEADER	ALUMINUM
10A	2" BUILD OUT "F" HEADER	ALUMINUM
13	1/4"-20 x 3/4" KNURLED STUD	S.S.
14	1/4"-20 SIDEWALK BOLT	S.S.

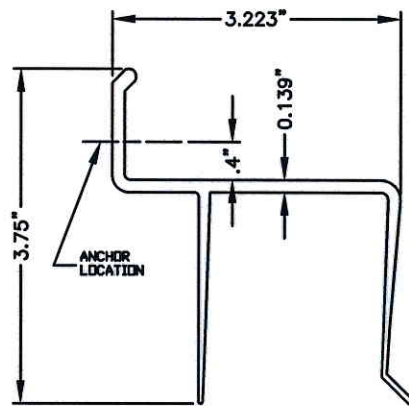
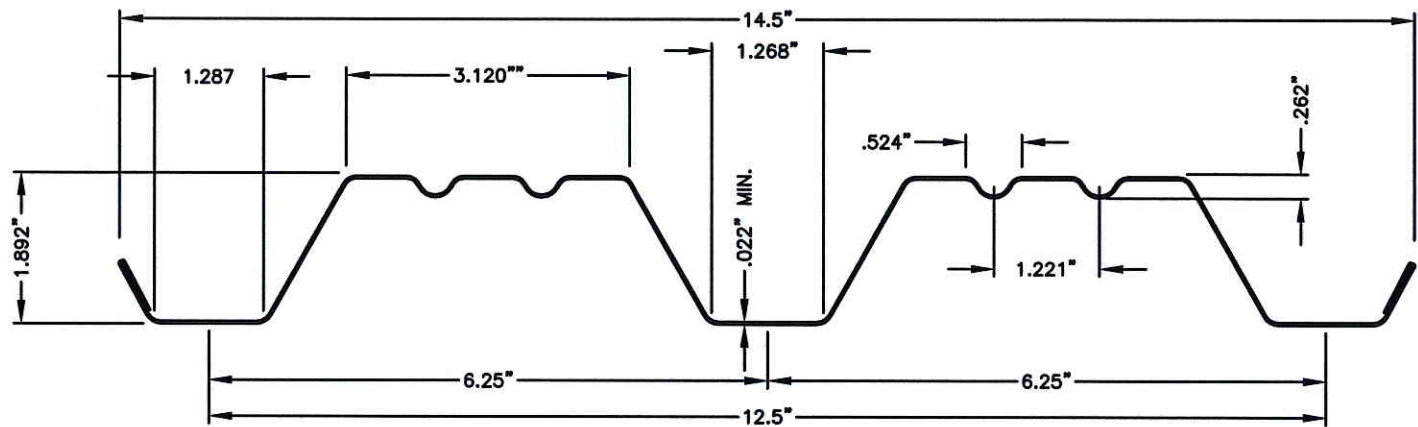


6A "1" BUILD OUT "F" TRACK

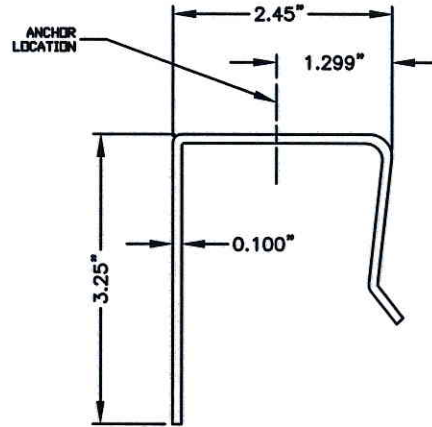
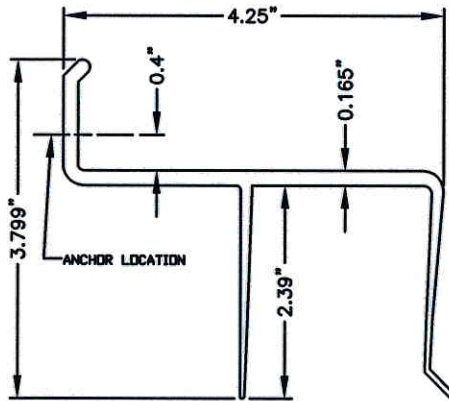


6B "2" BUILD OUT "F" TRACK

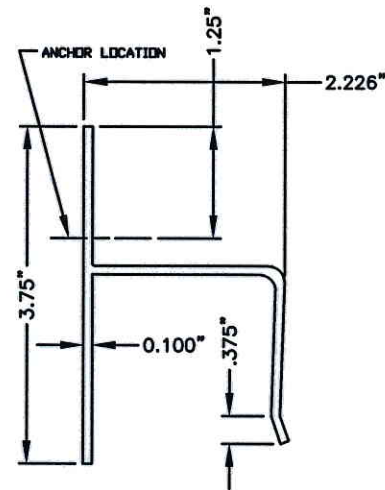
1 GALV. STEEL STORM PANEL PROFILE



10A "2" BUILD OUT "F" HEADER



3 EXPANDED "U" HEADER



2 "h" HEADER

Documents Prepared By:
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Lyndon F. Schmidt
Lyndon F. Schmidt, P.E. NO. 43409

PRODUCT:
ELITE HURRICANE SHUTTERS
GALV. STEEL STORM PANEL

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS	BY
1	05/22/12	UPDATE TO 2010 FBC	LFS

DATE: 2/4/08
SCALE: N.T.S.
DWG. BY: WH
CHK. BY: LFS
DRAWING NO.: FL-10106.2
SHEET 9 OF 9