

GENERAL NOTES

(VALID FOR REGULAR, LIFE SAFETY & E-Z HANG STORM PANELS):

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE. THIS STORM PANEL SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE / BROWARD COUNTIES). DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE. FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE STORM PANEL WILL BE INSTALLED, AND FOR A DIRECTIONALITY FACTOR $KD=0.85$, USING ASCE 7-16 AND SHALL NO EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 3, 9 THRU 12 & 17, 18. IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 SHALL BE FIRST REDUCED TO A.S.D. DESIGN PRESSURE RATING BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 3, 9 THRU 12 & 17, 18. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018. STORM PANEL'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER AMERICAN TEST LAB OF SOUTH FLORIDA REPORTS #0814.01-01 AND #0219.02-09, AS PER SSTD 12-99 & ASTM E 330-02 STANDARDS, AND AMERICAN TESTING LAB SOUTH FLORIDA REPORT #1123.01-10 AS PER TAS-201 AND TAS-203 PROTOCOLS, AND AS PER CALCULATIONS PERFORMED IN ACCORDANCE W/ SECTION 1604 OF THE FLORIDA BUILDING CODE.
2. ALL ALUMINUM EXTRUSIONS TO BE 6063-T6 ALLOY AND TEMPER. (UNLESS OTHERWISE NOTED). SEE SHEET 2
3. ALL ALUMINUM SHEET METAL USED AT CLOSURES SHALL HAVE 3105-H14 ALLOY.
4. ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY STEEL, ASTM A-653 GRADE 80 MINIMUM, G-60 GALVANIZED STEEL DESIGNATION W/FY= 92.2 ksi (AFTER ROLLED).
5. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
6. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL, WITH 36 ksi MINIMUM YIELD STRENGTH.
7. ANCHORS TO WALL SHALL BE AS FOLLOWS:

(A) TO EXISTING POURED CONCRETE:

- 1/4" ϕ TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX, INC. (Min. $f'c=3192$ p.s.i.)
 - 1/4" ϕ x 7/8" CALK-IN ANCHORS, AS MANUFACTURED BY DEWALT INC.
 - 1/4" ϕ x 3/4" SOLID-SET ANCHORS, AS DISTRIBUTED BY ALL POINT SCREW, BOLT & SPECIALTY CO. (Min. $f'c=3000$ p.s.i.)
 - #14-10 PANELMATE FEMALE ID & PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" ϕ ZAMAC NAILIN ANCHORS, AS MANUFACTURED BY DEWALT, INC.
- A.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO POURED CONCRETE SHALL BE 1 3/4"; 2" FOR ELCO PANELMATE AND 1 3/4" FOR ZAMAC NAILIN ANCHORS.
- A.2) CALK-IN & SOLID-SET ANCHORS SHALL BE EMBEDDED 7/8" INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" ϕ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO, AND MAY BE HEADED SCREWS OR ALL THREADED SCREWS W/O HEAD, BUT WITH WING NUTS.
- A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, PAVERS, STUCCO OR WOOD BOARDS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN A.1) AND IN A.2).

(B) TO EXISTING CONCRETE BLOCK WALL ASTM C-90:

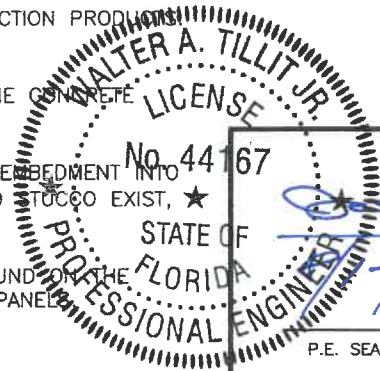
- 1/4" ϕ TAPCON ANCHORS AS MANUFACTURED BY I. T. W. BUILDEX, INC.
 - 1/4" ϕ x 7/8" CALK-IN ANCHORS, AS MANUFACTURED BY DEWALT, INC.
 - 1/4" ϕ x 3/4" SOLID-SET ANCHORS, AS DISTRIBUTED BY ALL POINT SCREW, BOLT & SPECIALTY CO.
 - #14-10 PANELMATE FEMALE ID AND PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" ϕ ZAMAC NAILIN ANCHORS, AS MANUFACTURED BY DEWALT, INC.
- B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS, ELCO PANELMATES AND ZAMAC NAILIN ANCHOR, INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) CALK-IN & SOLID-SET ANCHORS SHALL BE EMBEDDED 7/8" INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" ϕ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.3) IN CASE THAT PRECAST STONE, OR PRECAST CONCRETE PANELS, STUCCO OR WOOD BOARDS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN B.1) AND IN B.2).

(C) TO EXISTING WOOD (MIN. SPECIFIC GRAVITY, $G = 0.55$ MIN.):

- 1/4" ϕ TAPCON ANCHORS, AS MANUFACTURED BY I.T.W. BUILDEX, INC.
 - #14-10 PANELMATE FEMALE ID AND PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" ϕ LAG SCREWS PER N.D.S.
 - 7/16" ϕ x 5/8" WOOD BUSHING, AS DISTRIBUTED BY ALL POINT SCREW, BOLT & SPECIALTY CO.
- C.1) MINIMUM THREADED PENETRATION INTO WOOD OF TAPCON ANCHORS SHALL BE 1 1/2" AND 2" FOR ELCO PANELMATE PLUS AND PANELMALE FEMALE ID.
- C.2) MINIMUM THREADED PENETRATION OF LAG SCREW, INTO THE WOOD FRAME UNIT SHALL BE 1 1/2". NO THREADED PENETRATION INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED THREADED PENETRATION.
- C.3) MINIMUM EDGE DISTANCE OF LAG SCREWS, INTO WOOD SHALL BE AS INDICATED IN THIS DRAWING
- C.4) MINIMUM PENETRATION OF WOOD BUSHING SHALL BE 5/8". 1/4" ϕ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- C.5) IN CASE THAT PRECAST STONE, OR PRECAST CONCRETE PANELS, STUCCO OR WOOD BOARDS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN C.1), C.2) & C.4)

(D) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

8. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTION 1 THROUGH 6 (SHEETS 4 THROUGH 5) EXCEPT THAT HEADERS ② & ③ SHALL NOT BE USED.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
10. EACH REGULAR STORM PANEL WITH LENGTHS OVER 90", AS PER SECTIONS 1, 2, 4, 5, 6 AND ALTERNATIVES 1W, 3W & 4W ON SHEETS 4, 5, 6 & 7 RESPECTIVELY; SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE PANELS WITH APPLICABLE REINFORCEMENT DURING PERIODS OF HURRICANE WARNING.
11. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.
12. STORM PANEL INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
13. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (e) THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
14. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT STORM PANEL SHUTTER IN ACCORDANCE WITH SECTION 1709.9.2 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.3 OF THE FLORIDA BUILDING CODE.



P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.

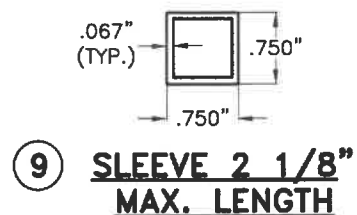
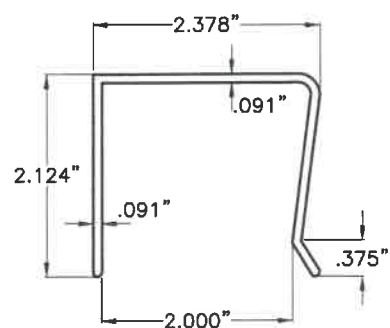
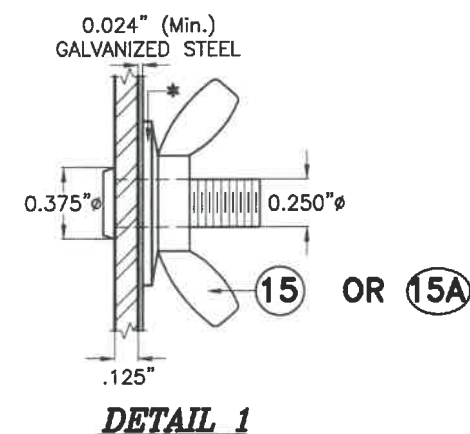
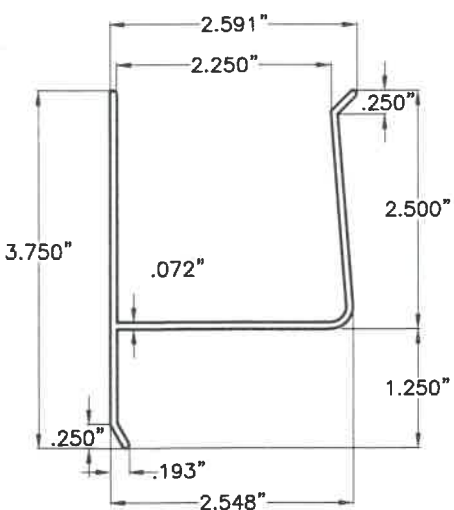
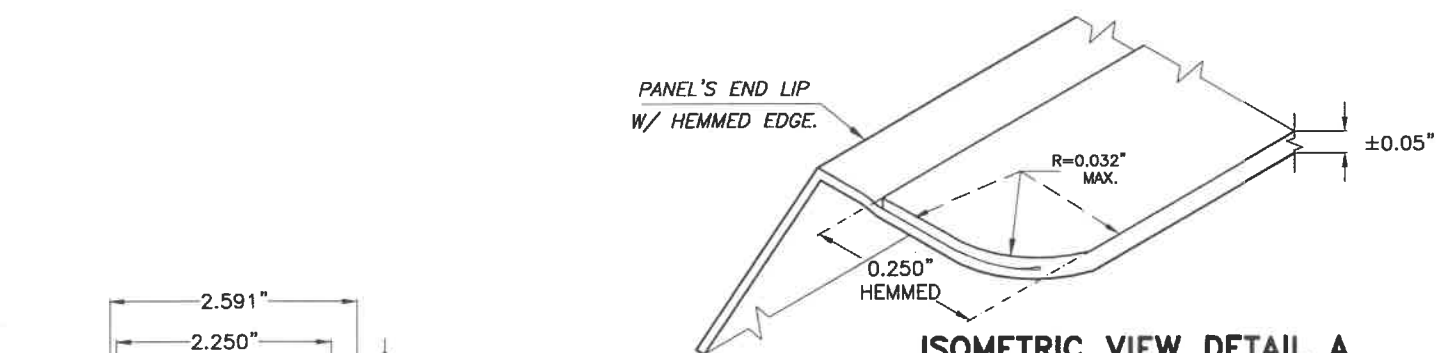
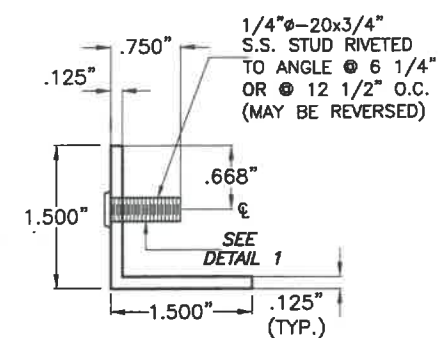
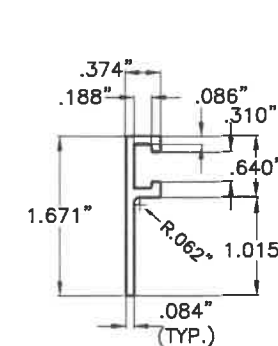
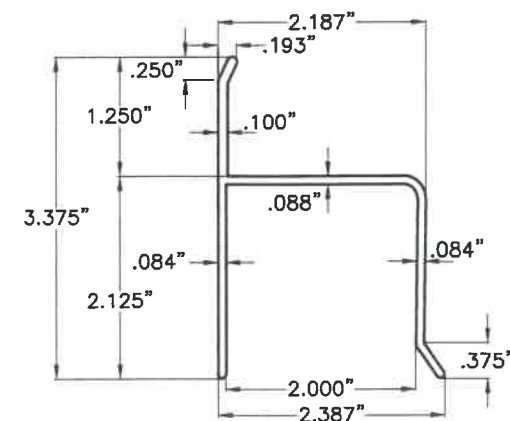
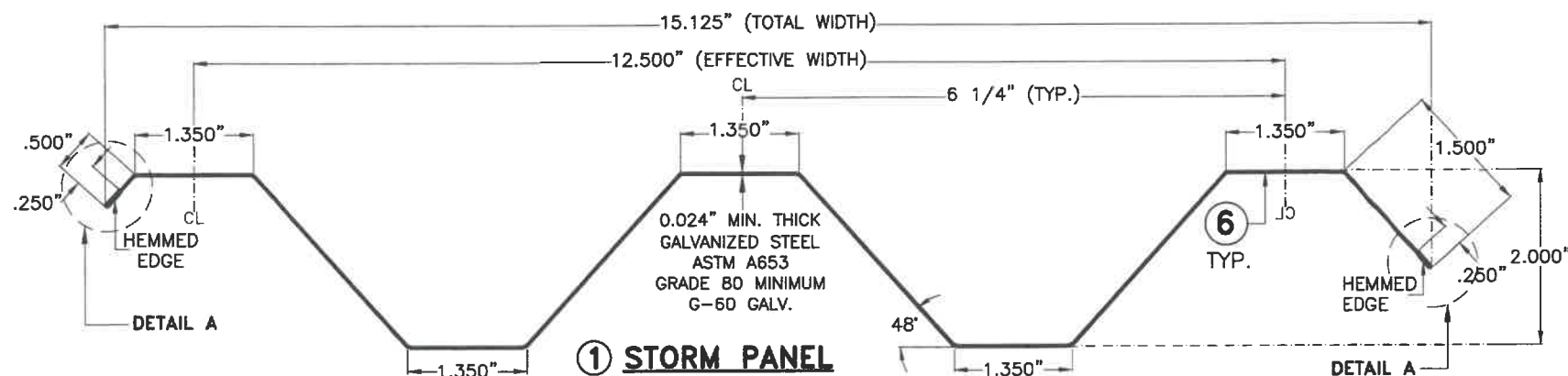
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL				F.P. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.				07/27/2020 DATE:
4800 S.W. 51 STREET DAVE, FL 33314 PHONE: (954)689-7545, FAX: (954)689-8797				20-175 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION
1	OLD 17-142	07/27/20	3	
2			4	
SHEET 1 OF 18				

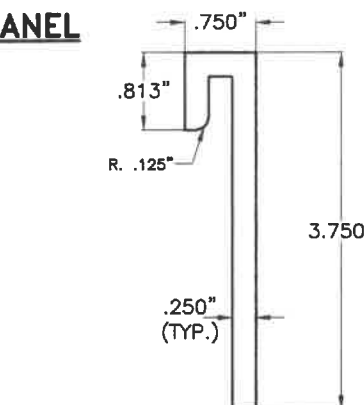
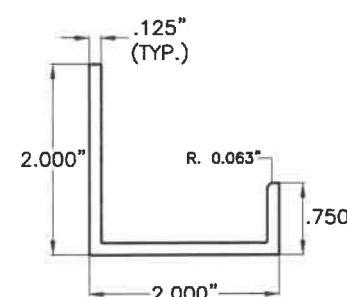
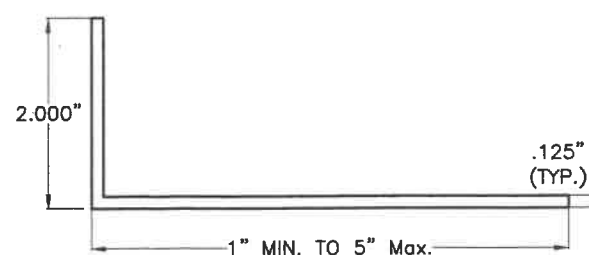
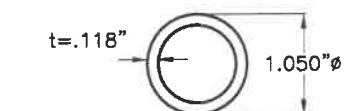
COMPONENTS FOR REGULAR, LIFE SAFETY & E-Z HANG STORM PANEL SYSTEMS

(SCALE 1/2"=1")

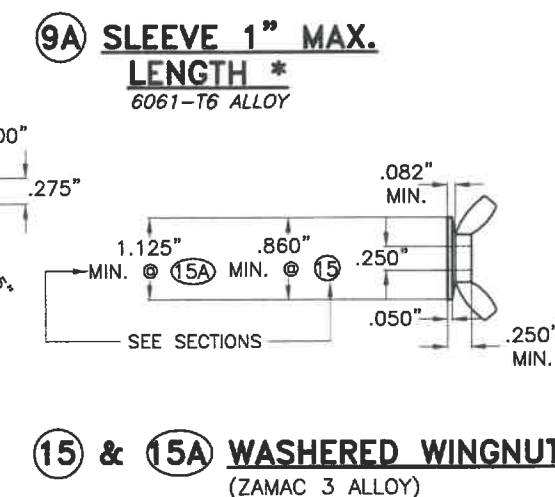
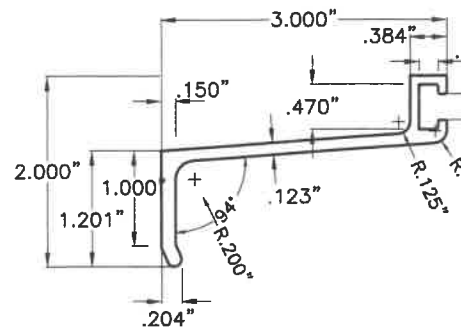
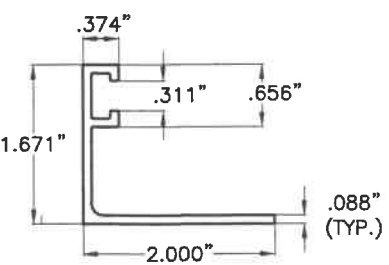


7 REV. "H" HEADER

8 "U" HEADER



*SEE SHEET 6 FOR ADDITIONAL LIMITATIONS IF SLEEVE LENGTH IS 1 1/2", ONLY VALID FOR INSTALLATIONS INTO WOOD STRUCTURES.



WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 P.E. SEAL/SIGNATURE/DATE

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 e-mail: tiltco@aol.com
 CA-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL				F.P. DRAWN BY:	
GLOBAL PROTECTION PRODUCTS, LLC.				07/27/2020 DATE:	
4800 S.W. 51 STREET DAVIE, FL. 33314				20-175	
PHONE: (954)689-7545, FAX: (954)689-8797				DRAWING No:	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

**MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING
MAXIMUM SINGLE PANEL ① LENGTH "L" SCHEDULE ONLY FOR REGULAR STORM
PANELS INSTALLATION INTO POURED CONCRETE, CONCRETE BLOCK & WOOD (†)**

SINGLE PANELS ① UNRESTRAINED

AT TOP OR BOTTOM

WITH TRACKS ② OR ⑧ *

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) (+ or -)	CONCRETE & WOOD INSTALLATIONS †	
	L+	L-
20.0	12'-0"	12'-0"
25.0	12'-0"	11'-8"
30.0	11'-8"	10'-9"
35.0	10'-10"	10'-0"
40.0	10'-1"	9'-4"
45.0	9'-6"	8'-9"
50.0	9'-1"	8'-4"
55.0	8'-7"	8'-0"
60.0	8'-3"	7'-7"
65.0	8'-0"	7'-4"
70.0	7'-8"	7'-0"
75.0	7'-5"	6'-10"
80.0	7'-2"	6'-7"
85.0	7'-0"	6'-5"
90.0	6'-9"	6'-2"
95.0	6'-9"	6'-0"
100.0	6'-5"	5'-11"
105.0	6'-3"	5'-9"
110.0	-	5'-7"
115.0	-	5'-6"
119.6	-	5'-5"

SINGLE PANELS ① RESTRAINED AT EACH

END WITH TRACKS ③, ④, ⑬ & ⑭ OR

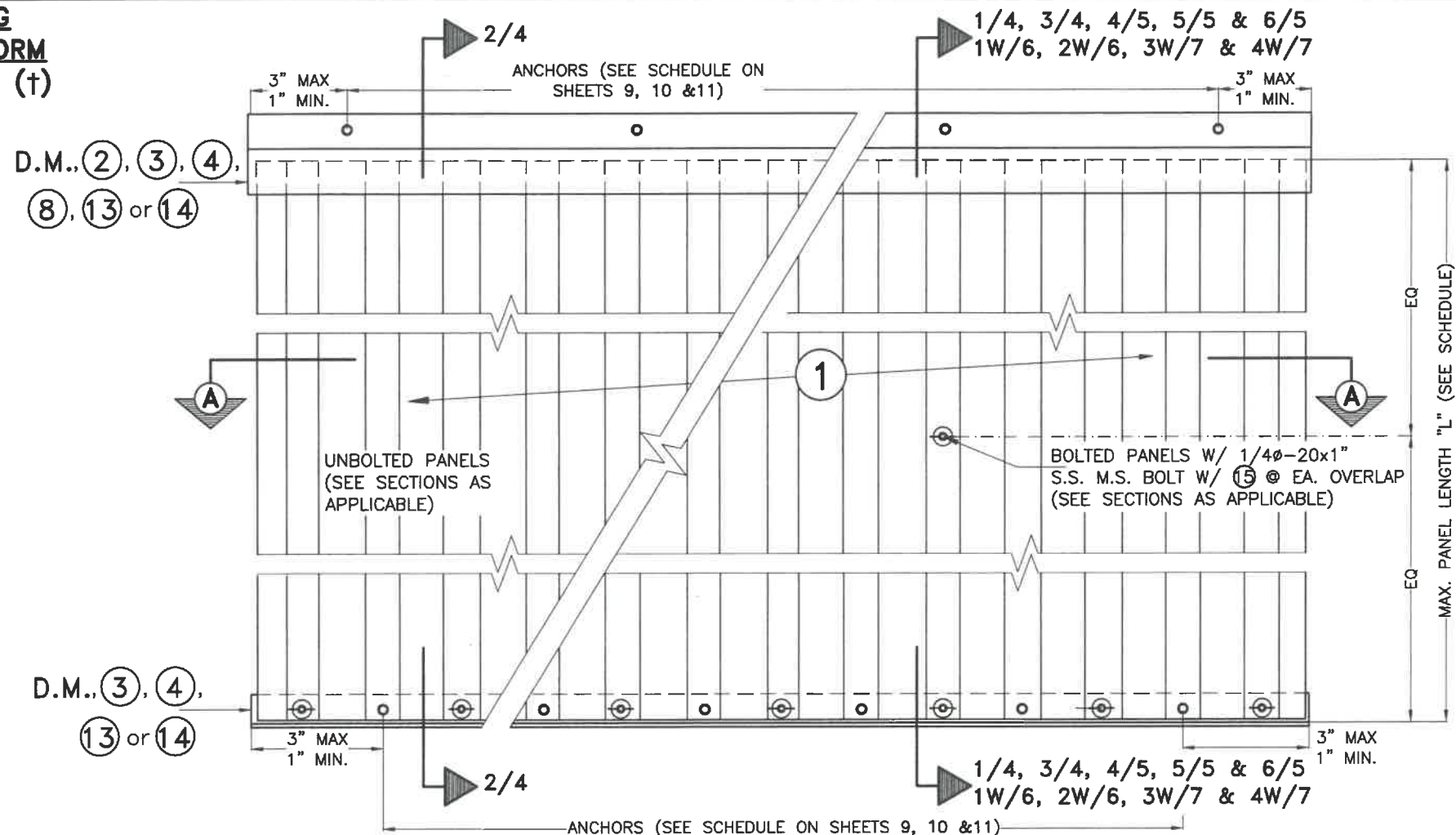
DIRECT MOUNTED AT EACH END*

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) (+ or -)	CONCRETE & WOOD INSTALLATIONS †	
	L+	L-
20.0	14'-4"	13'-0"
25.0	12'-10"	11'-7"
30.0	11'-8"	10'-7"
35.0	10'-10"	9'-9"
40.0	9'-6"	9'-2"
45.0	9'-1"	8'-7"
50.0	8'-7"	8'-2"
55.0	8'-3"	7'-9"
60.0	8'-0"	7'-5"
65.0	7'-8"	7'-2"
70.0	7'-5"	6'-11"
75.0	7'-2"	6'-8"
80.0	7'-0"	6'-5"
85.0	7'-0"	6'-3"
90.0	6'-9"	6'-1"
95.0	6'-7"	5'-10"
100.0	6'-3"	5'-7"
105.0	6'-3"	5'-4"
110.0	-	5'-1"
115.0	-	4'-10"
119.6	-	4'-8"

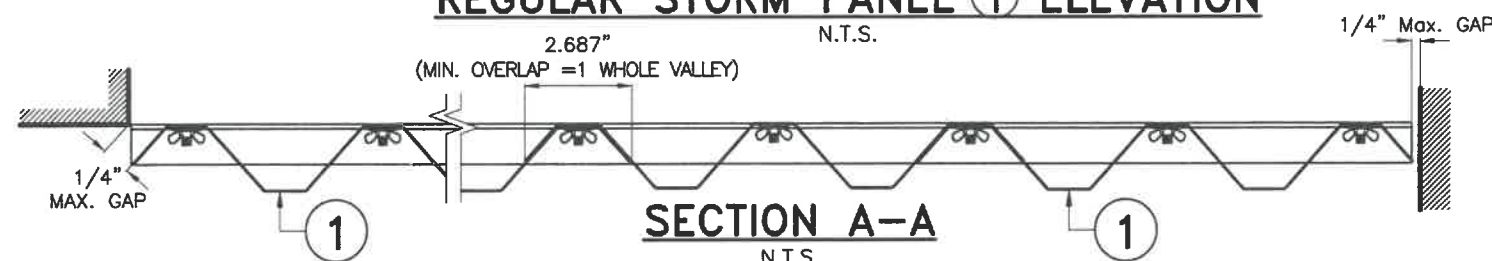
MAXIMUM PANEL LENGTH (in)	MINIMUM SEPARATION TO GLASS SCHEDULE			
	WIND SPEED ≤ 170 m.p.h		WIND SPEED > 170 m.p.h	
	UNRESTRAINED	RESTRAINED	UNRESTRAINED	RESTRAINED
30 OR LESS	1"	1"	6"	6 1/4"
>33 TO 90	1"	1"	7 1/2"	7 1/2"
>90 TO 145	1"	1"	7 1/2"	7 1/2"
>145 TO 168.35	1"	1"	-	7 1/2"

MINIMUM PANEL LENGTH (in) FOR A GIVEN MOUNTING CONDITION

BOTTOM	TOP	DIRECT MOUNT	"h" HEADER	"U" HEADER	1.5"x1.5" STUD ANGLE	"F" TRACK	BUILD-OUT "F" TRACK ANGLE W/SIDE CLOSURES	BUILD-OUT "F" TRACK W/SIDE CLOSURES
-	DIRECT MOUNT	46"	32"	32"	35"	55"	50"	50"
④	1.5"x1.5" STUD ANGLE	35"	32"	32"	32"	42"	38"	38"
③	"F" TRACK	55"	32"	32"	42"	67"	60"	60"
⑬	BUILD-OUT "F" TRACK ANGLE W/ SIDE CLOSURES	50"	32"	32"	38"	60"	56"	56"
⑭	BUILD-OUT "F" TRACK W/ SIDE CLOSURES	50"	32"	32"	38"	60"	56"	56"



REGULAR STORM PANEL ① ELEVATION

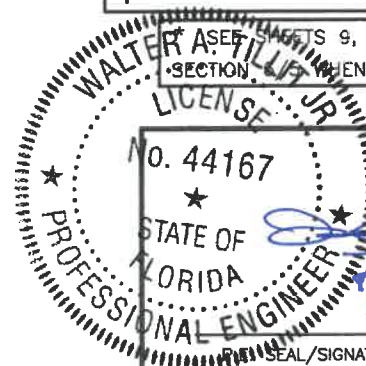


NOTES:

- ① L+: MAXIMUM ALLOWABLE PANEL LENGTH FOR A GIVEN POSITIVE A.S.D. DESIGN LOAD.
L-: MAX. ALLOWABLE PANEL LENGTH FOR A GIVEN NEGATIVE A.S.D. DESIGN LOAD.
- ② PROCEDURE TO DETERMINE MAXIMUM PANEL LENGTH:
GIVEN A POSITIVE A.S.D. DESIGN LOAD, DETERMINE MAXIMUM PANEL LENGTH "L+" FROM SCHEDULE.
GIVEN A NEGATIVE A.S.D. DESIGN LOAD, DETERMINE MAXIMUM PANEL LENGTH "L-" FROM SCHEDULE.
FINAL MAXIMUM ALLOWABLE PANEL LENGTH IS EQUAL TO THE MINIMUM DETERMINED PANEL LENGTH BETWEEN "L+" AND "L-".
- ③ SEE SCHEDULE BELOW FOR MIN. PANEL LENGTH FOR POROSITY QUALIFICATION.

† INSTALLATIONS INTO WOOD ARE LIMITED TO ± 95 p.s.f. MAX. A.S.D. DESIGN PRESSURE RATING

SEE SHEETS 9, 10 & 11 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS FOR SECTION 1.5 WHEN SPACER ⑨A IS USED.



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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.

4800 S.W. 51 STREET
DAVIE, FL 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

F.P.
DRAWN BY:

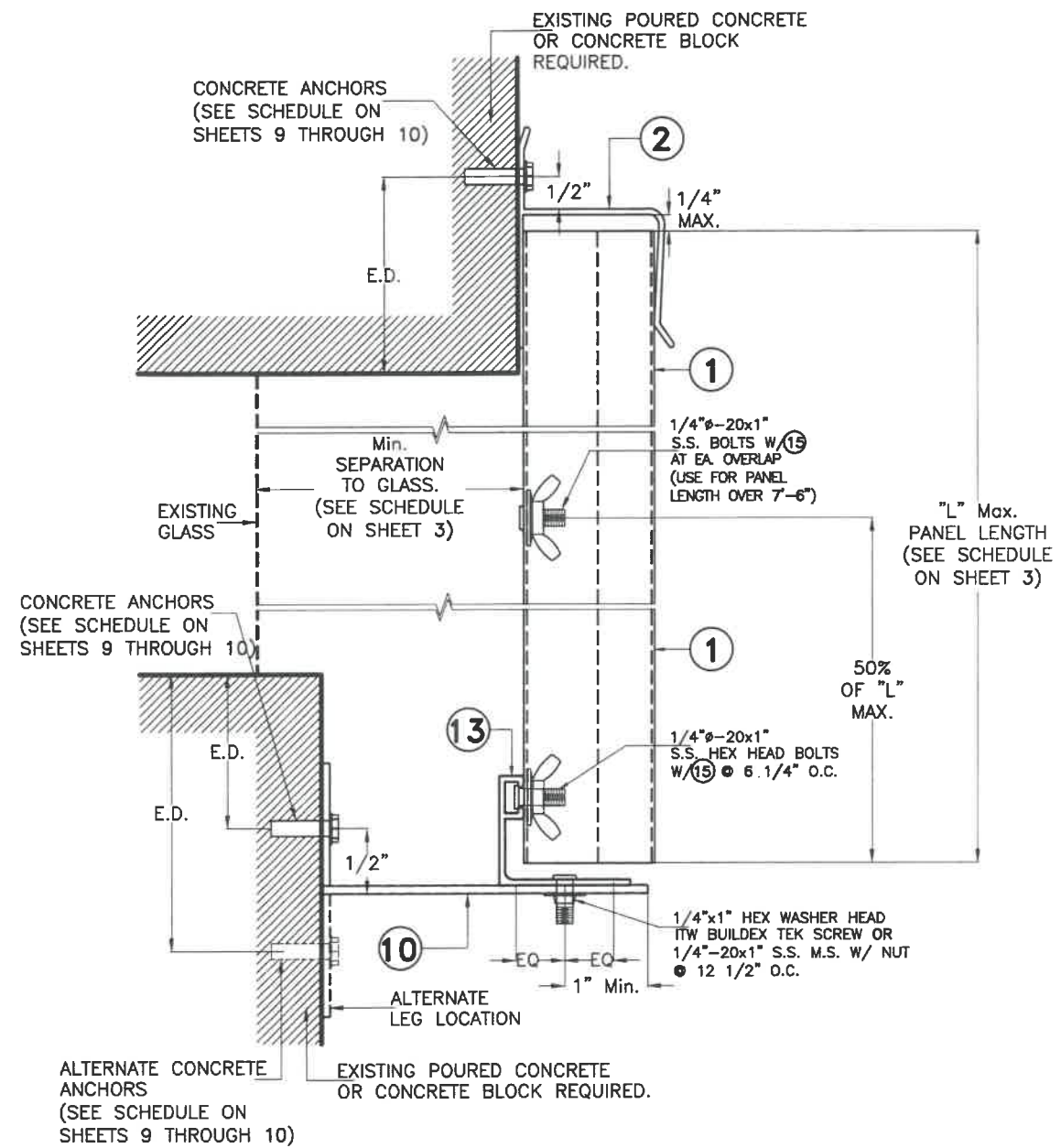
07/27/2020
DATE:

20-175

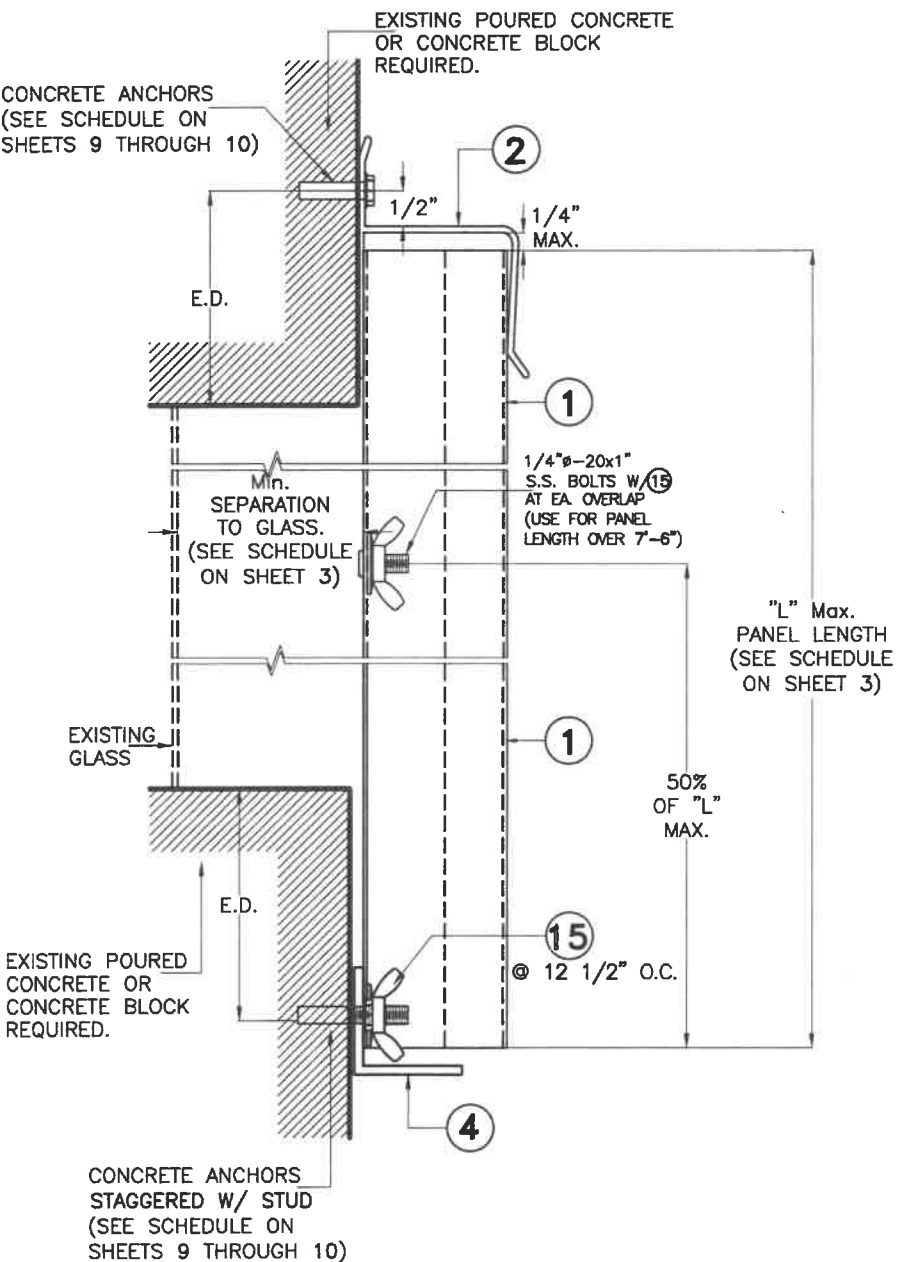
DRAWING No:

SHEET 3 OF 18

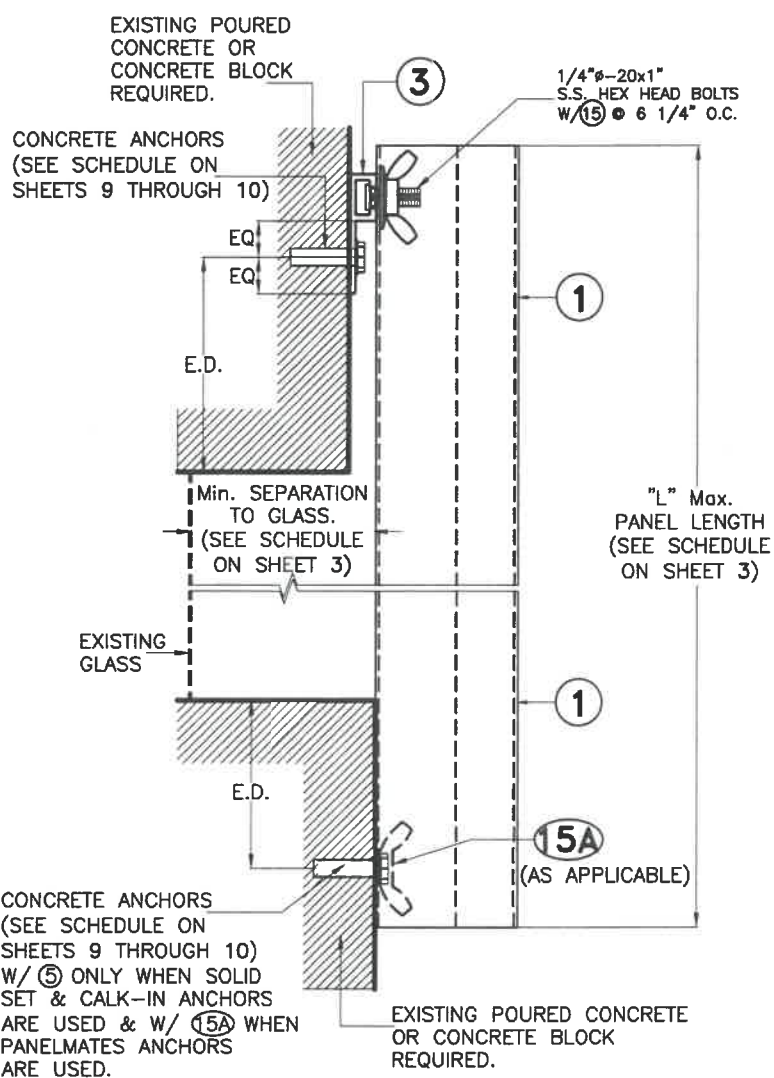
INSTALLATION DETAILS FOR REGULAR PANEL ①
INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



BUILD-OUT MOUNTING
SECTION 1
SCALE 3/8=1"



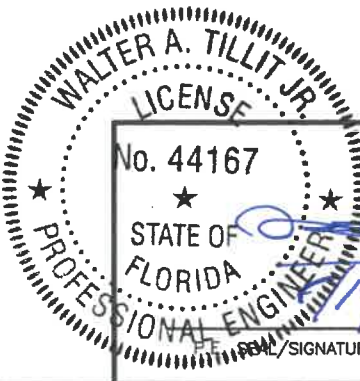
WALL MOUNTING
SECTION 2
SCALE 3/8=1"



WALL MOUNTING / DIRECT MOUNT
SECTION 3
SCALE 3/8=1"

E.D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEETS 9 & 10)

NOTE FOR COMBINATION OF SECTIONS:
TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



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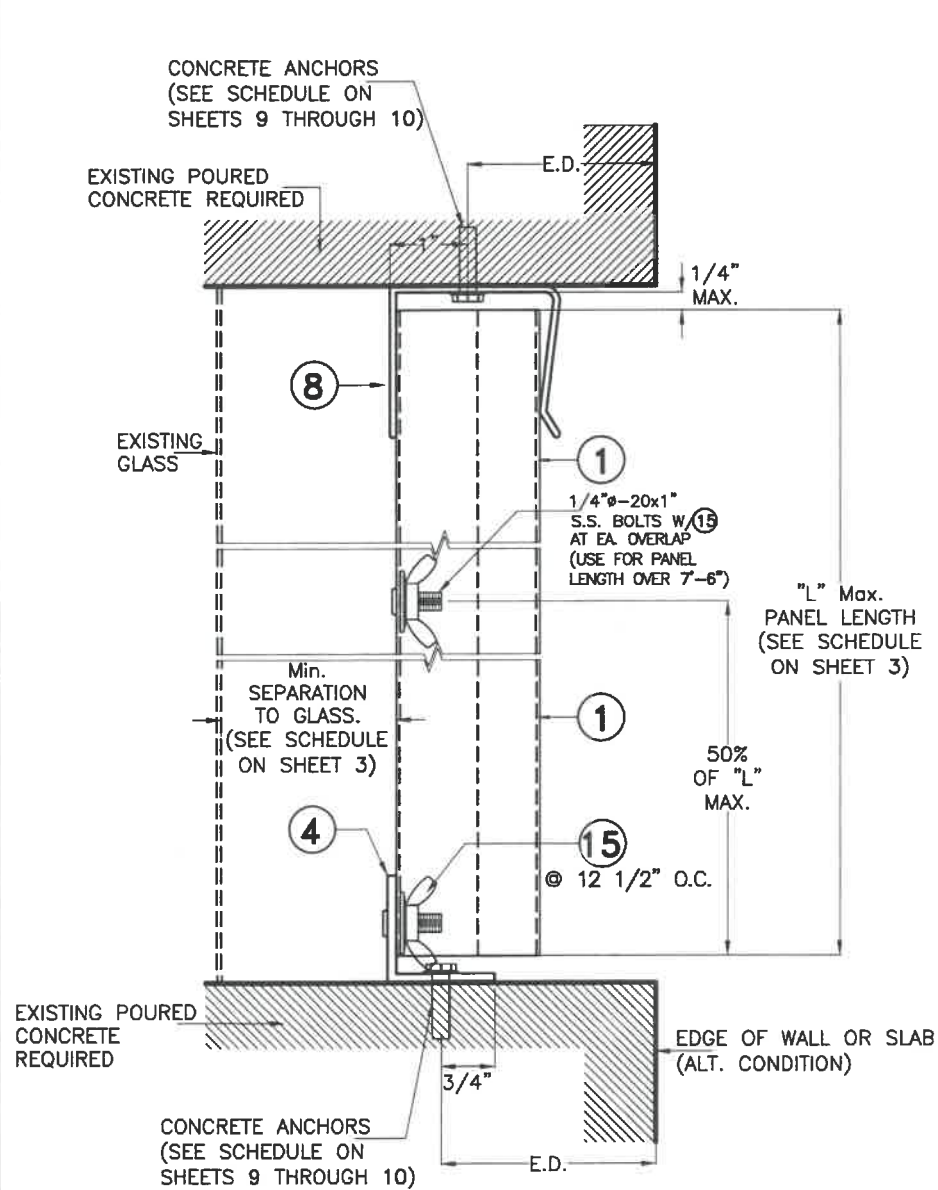
TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
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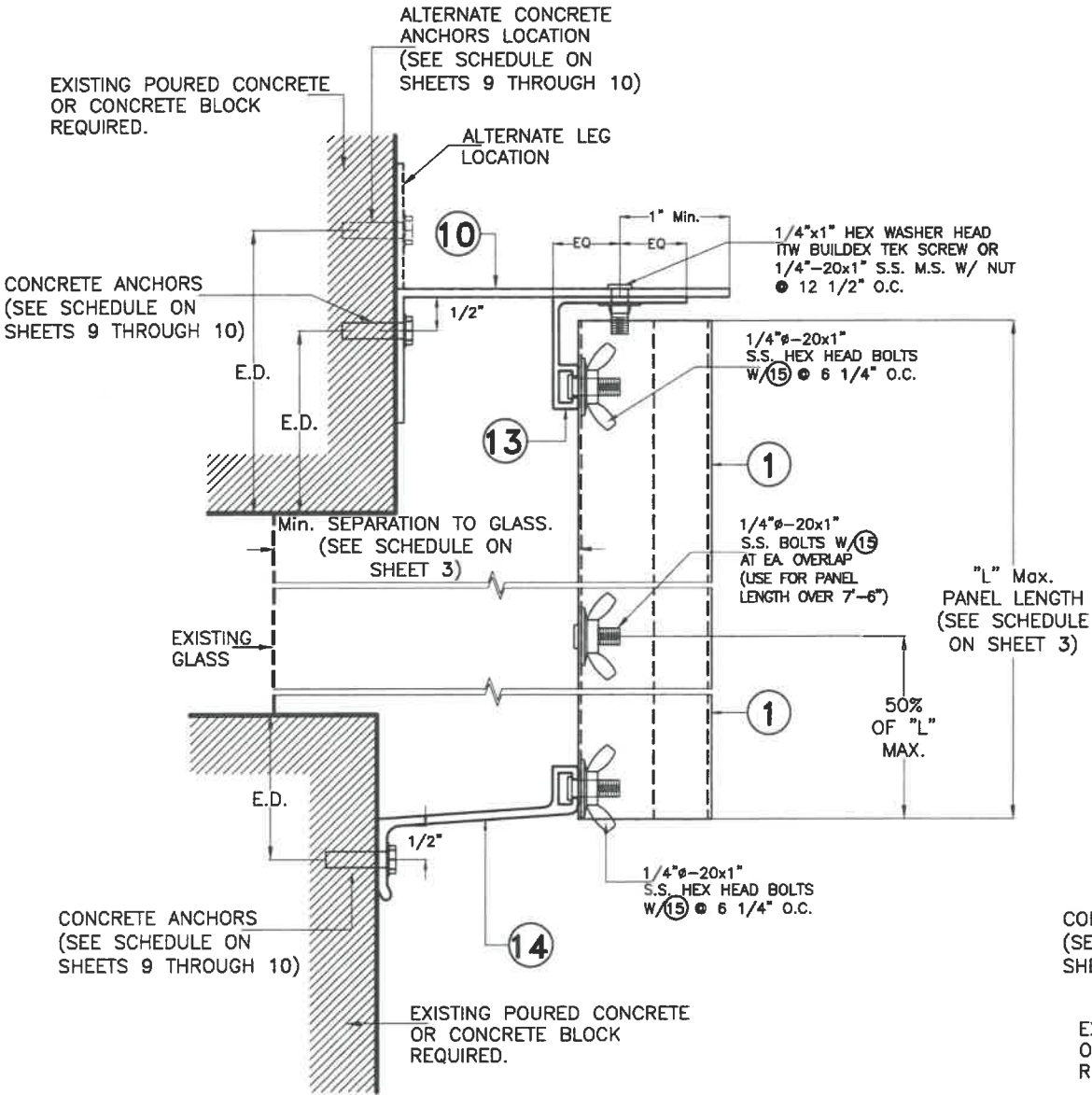
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL					F.P. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.					07/27/2020 DATE:
4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797					20-175 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

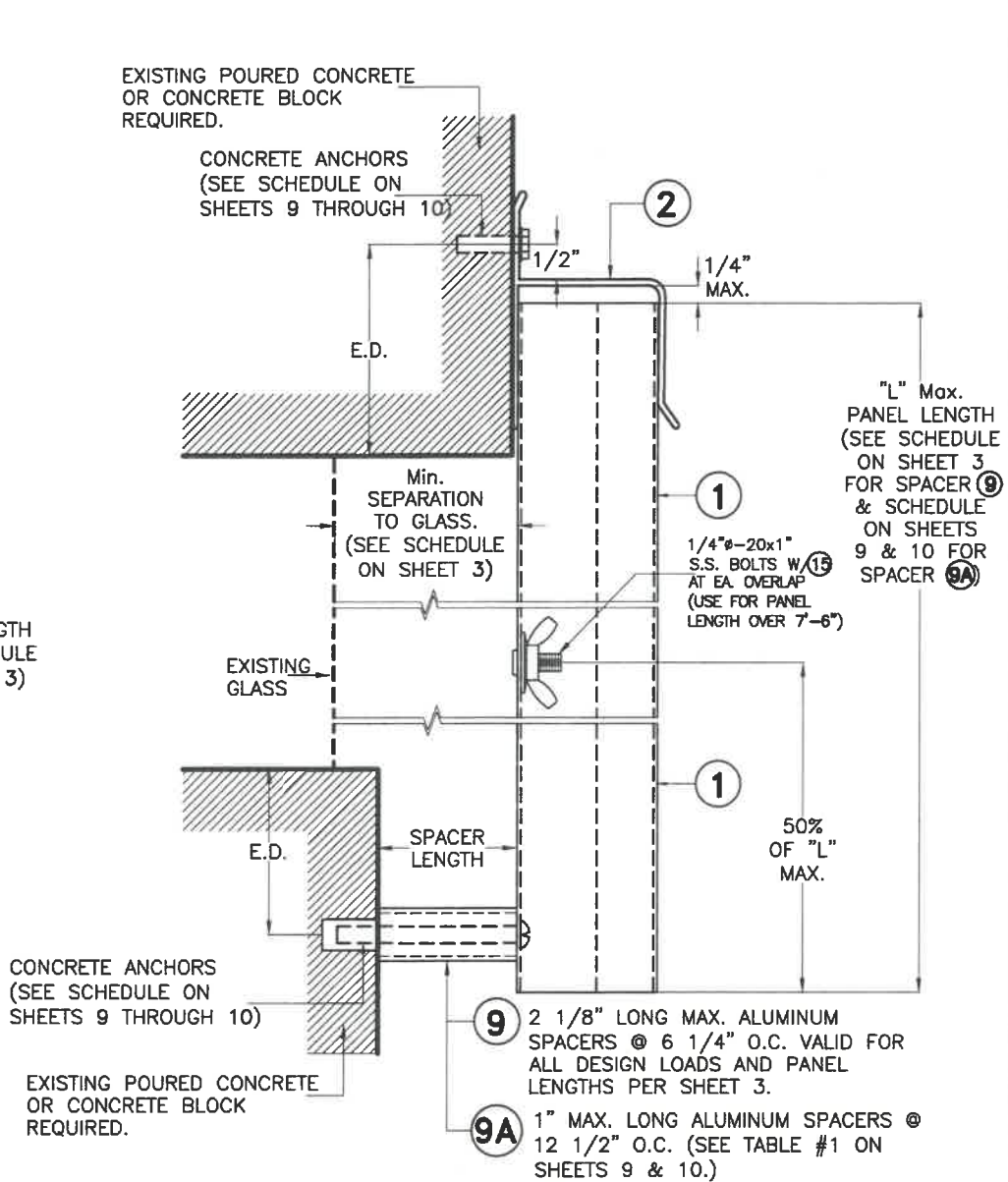
INSTALLATION DETAILS FOR REGULAR PANEL ①
INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



CEILING AND FLOOR MOUNTING
SECTION 4
SCALE 3/8=1"



BUILD-OUT MOUNTING
SECTION 5
SCALE 3/8=1"



WALL MOUNTING / DIRECT MOUNT W/ SPACERS ⑨ OR ⑨A
SECTION 6
SCALE 3/8=1"

E.D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 9 & 10)

NOTE FOR COMBINATION OF SECTIONS:
TOP & BOTTOM MOUNTINGS CAN BE
COMBINED IN ANY WAY TO SUIT ANY
INSTALLATION.

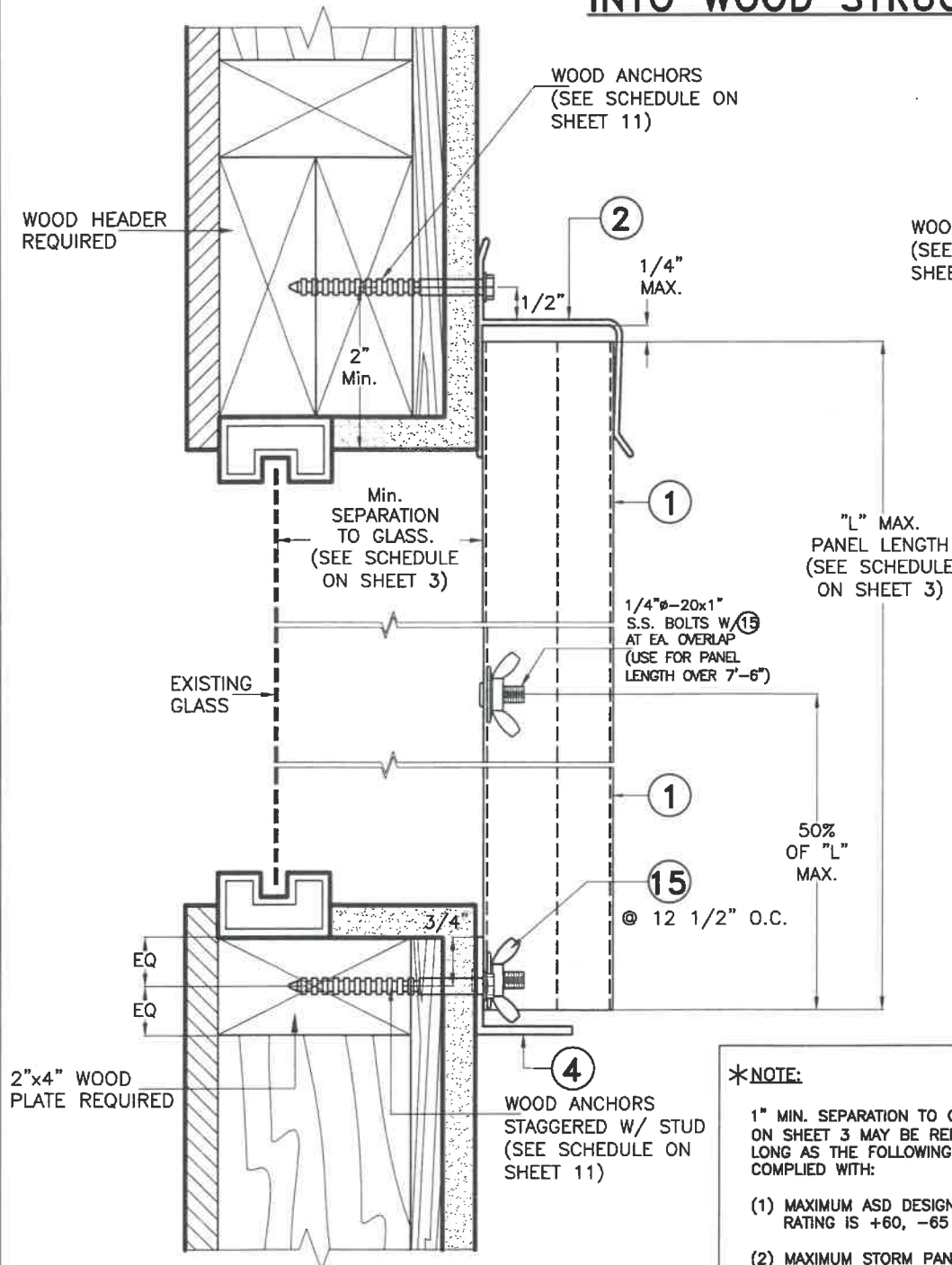


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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL					F.P. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.					07/27/2020 DATE:
4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797					20-175 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		
					SHEET 5 OF 18

INSTALLATION DETAILS FOR REGULAR PANEL ① INTO WOOD STRUCTURES

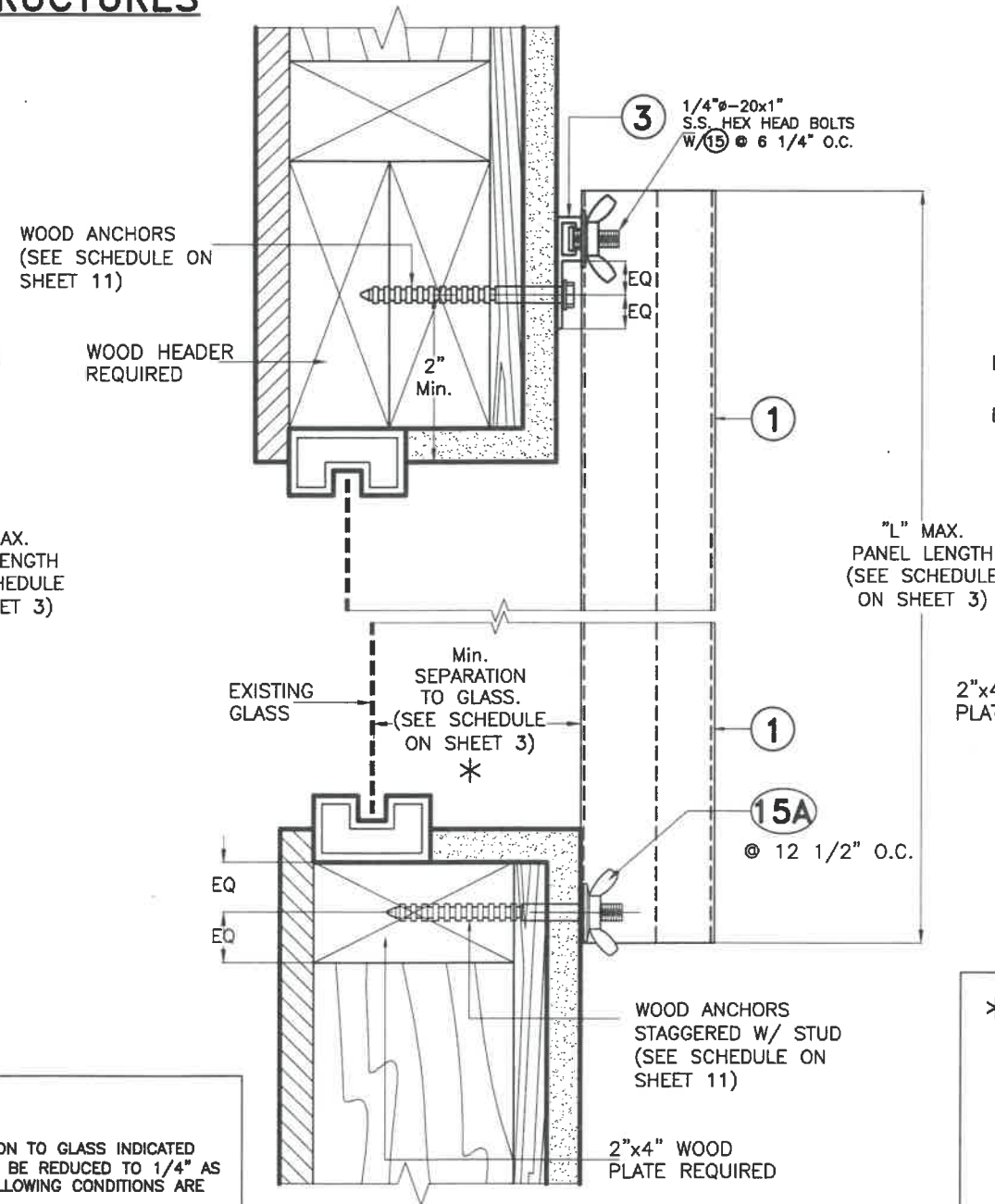


**WALL MOUNTING
ALTERNATIVE 1W**
SCALE 3/8=1"

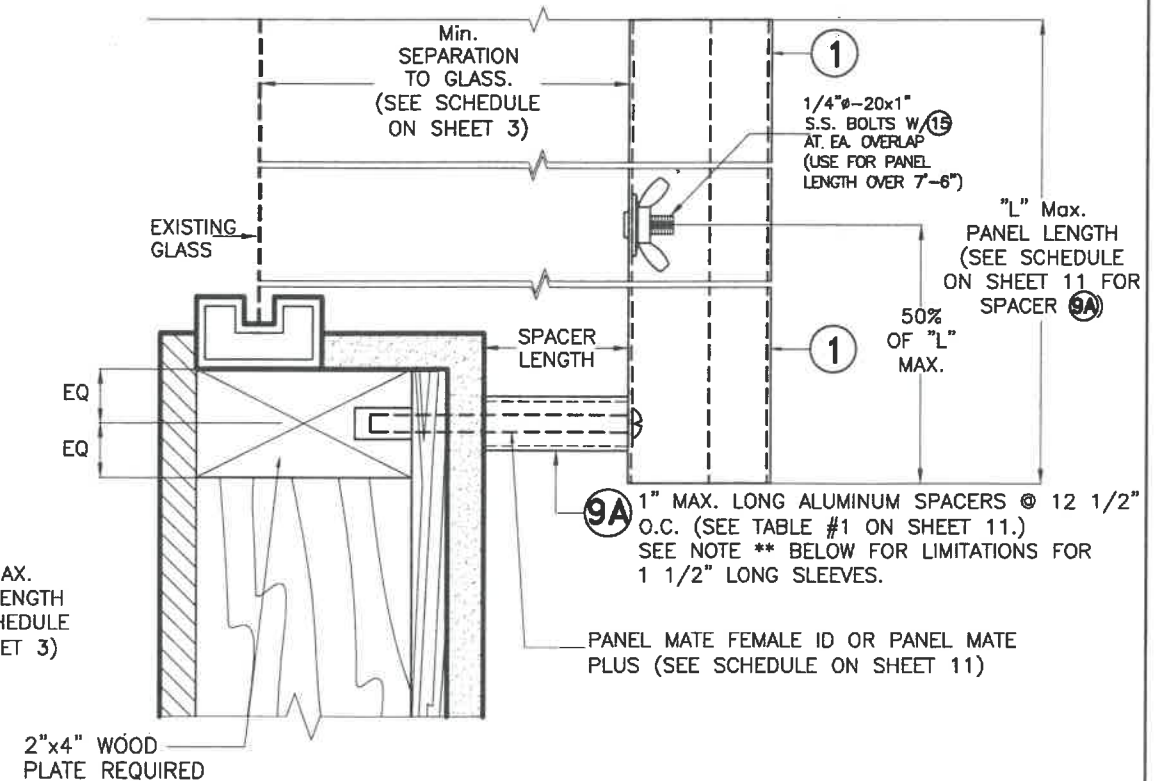
***NOTE:**

1" MIN. SEPARATION TO GLASS INDICATED ON SHEET 3 MAY BE REDUCED TO 1/4" AS LONG AS THE FOLLOWING CONDITIONS ARE COMPLIED WITH:

- (1) MAXIMUM ASD DESIGN PRESSURE RATING IS +60, -65 p.s.f.
- (2) MAXIMUM STORM PANEL LENGTH IS 72."
- (3) STORM PANEL INSTALLATION IS ONLY INTO AN EXISTING WOOD FRAME WALL.
- (4) INSTALLATION VALID ONLY FOR WIND ZONES 1, 2 & 3 PER ASTM E 1996-06.



**WALL MOUNTING / DIRECT MOUNT
ALTERNATIVE 2W**
SCALE 3/8=1"



**DIRECT MOUNT W/ SPACER 9A
ALTERNATIVE 2W**
SCALE 3/8=1"

SEE TABLE #1 ON SHEET 11 FOR MAX. PANEL LENGTHS & MAX. A.S.D DESIGN LOADS FOR THIS INSTALLATION.

**** NOTE:**

SPACER 9A MAY BE 1 1/2" LONG IF:

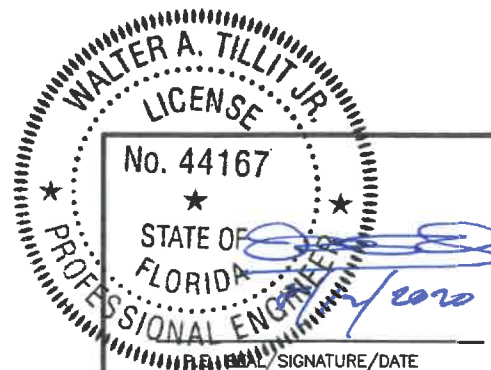
- (1) INSTALLATION IS LIMITED TO A ONE STORY BUILDINGS WITH 15'-0" MAX MEAN ROOF HEIGHT (THIS IS A RESTRICTION FROM ANY BUILDING HEIGHT CURRENTLY INDICATED ON SHEET 11).
- (2) ANCHORS GOING THRU COMPONENT 9A (PANEL MATE FEMALE ID OR PANEL MATE PLUS) SHALL BE SPACED MAXIMUM AT 6 1/4" O.C. (THIS IS A RESTRICTION FROM 12 1/2" O.C. SPACING ALLOWED ON SHEET 6).
- (3) MAX. 24 GAGE PANEL LENGTH IS LIMITED TO 66" AT ANY OPENING (THIS IS A RESTRICTION FROM LARGER PANEL LENGTHS ALLOWED ON SCHEDULE, SHEET 11).
- (4) 1 1/2" LONG SPACER COMPONENT #9A SHALL BE AS INDICATED ON SHEET 2. INSTALLATION OF 1 1/2" LONG SPACER 9A ITS ONLY VALID FOR WIND ZONES 1, 2 AND 3 AS DEFERRED BY ASTM E-1996 STANDARD AND THE 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE.

NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f) AND PANEL LENGTHS AS PER SCHEDULES ON SHEET 3 (EXCEPT FOR ALTERNATE 2W)
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



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FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.

4800 S.W. 51 STREET
DAVIE, FL 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

F.P.
DRAWN BY:

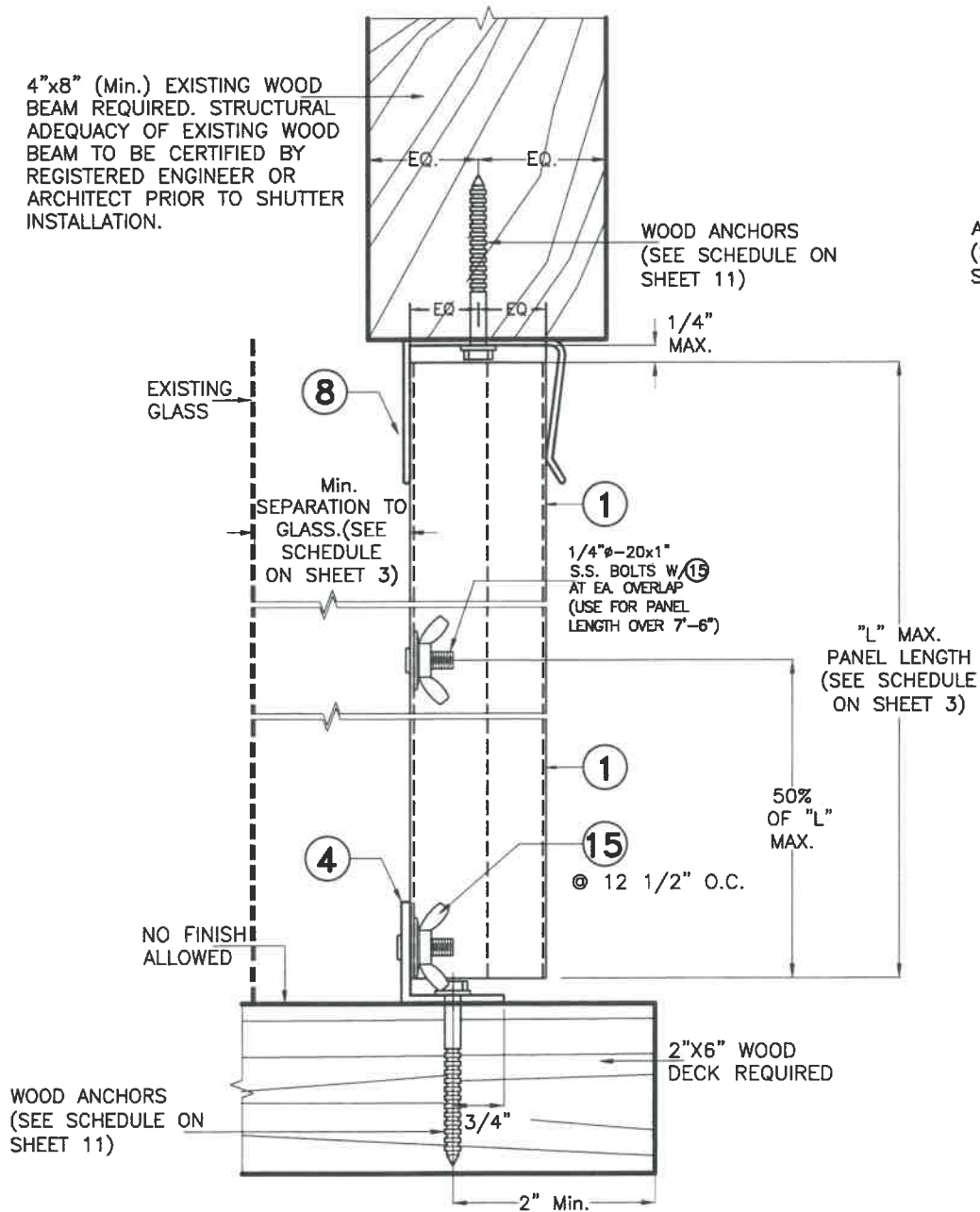
07/27/2020
DATE:

20-175

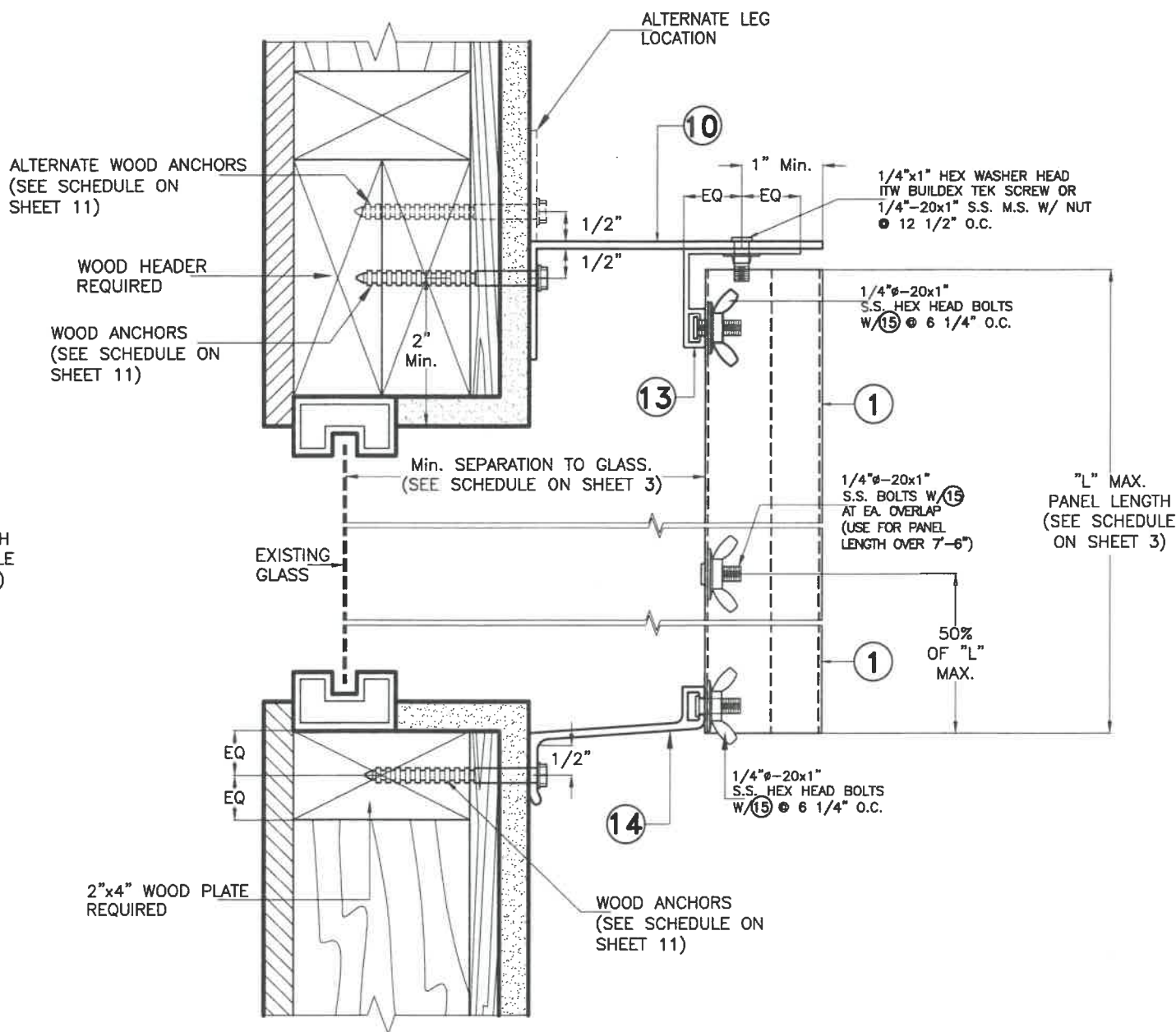
DRAWING No:

SHEET 6 OF 18

INSTALLATION DETAILS FOR REGULAR PANEL 1 INTO WOOD



CEILING AND FLOOR MOUNTING
ALTERNATIVE 3W
SCALE 3/8=1"



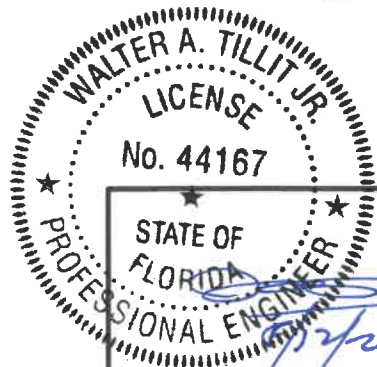
BUILD-OUT MOUNTING
ALTERNATIVE 4W
SCALE 3/8=1"

NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f) AND PANEL LENGTHS AS PER SCHEDULES ON SHEET 3
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



P.E. SEAL/SIGNATURE/DATE

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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL

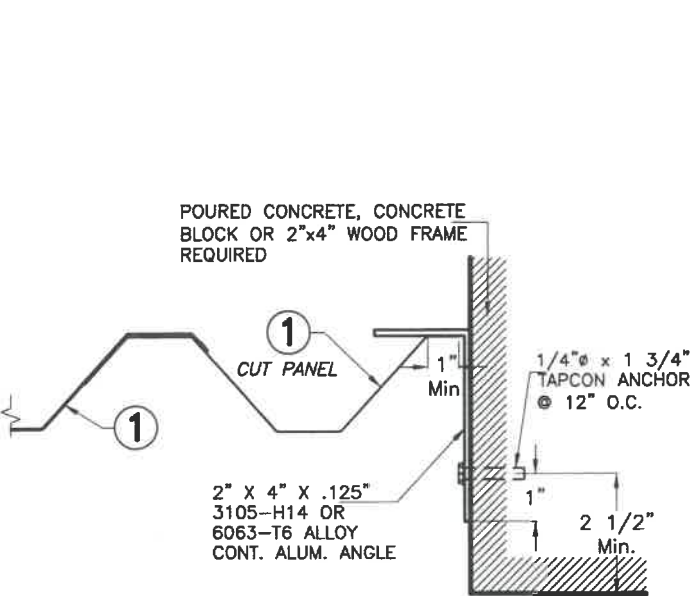
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PHONE: (954)689-7545, FAX: (954)689-8797

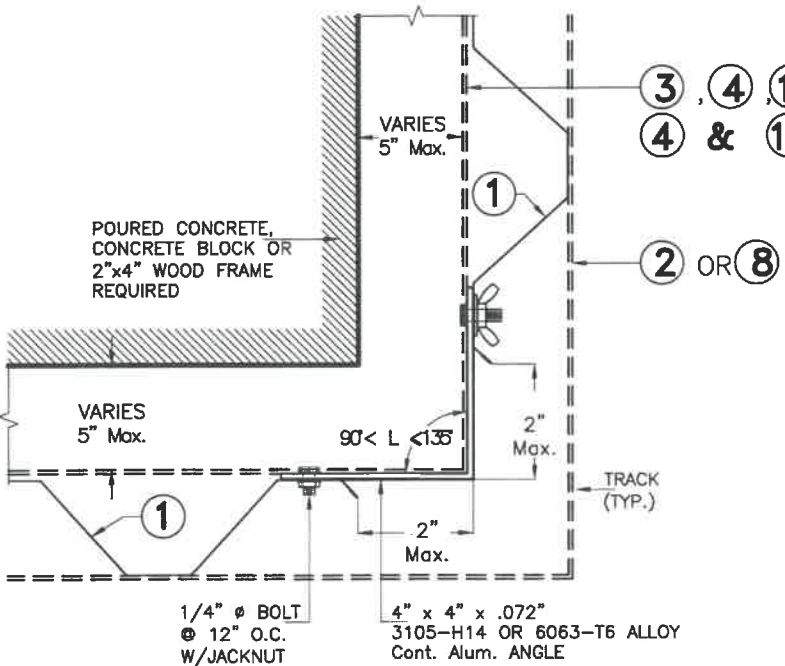
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

DRAWN BY: F.P.
DATE: 07/27/2020
20-175
DRAWING No:
SHEET 7 OF 18

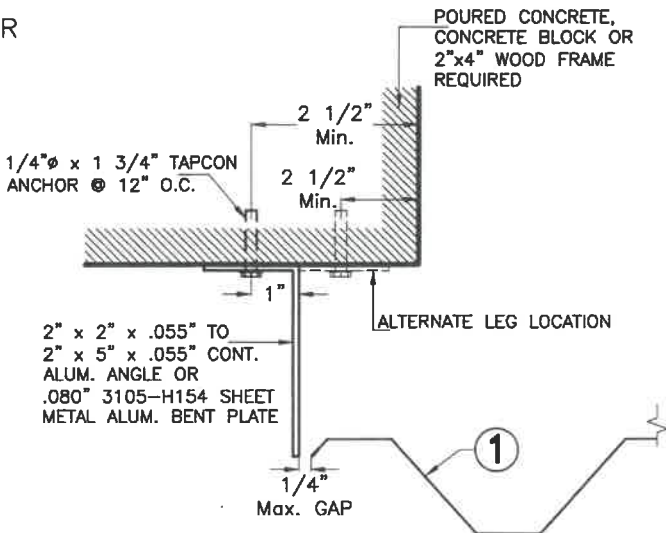
END CLOSURES DETAILS FOR INSTALLATION IN POURED CONCRETE,
CONCRETE BLOCK OR WOOD STRUCTURES: VALID FOR REGULAR, LIFE
SAFETY & E-Z HANG STORM PANEL ① SYSTEMS



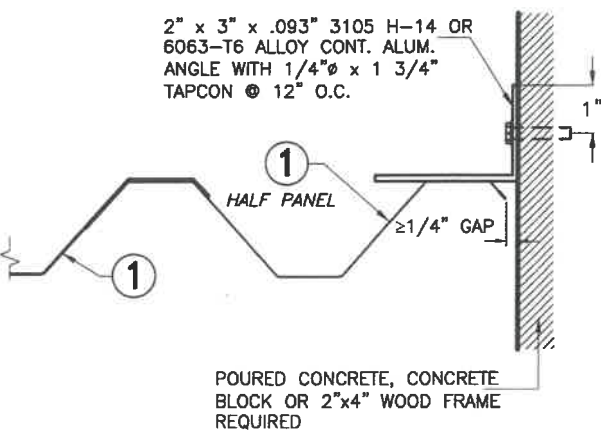
CASE A (PLAN)
SCALE 1/4"=1"



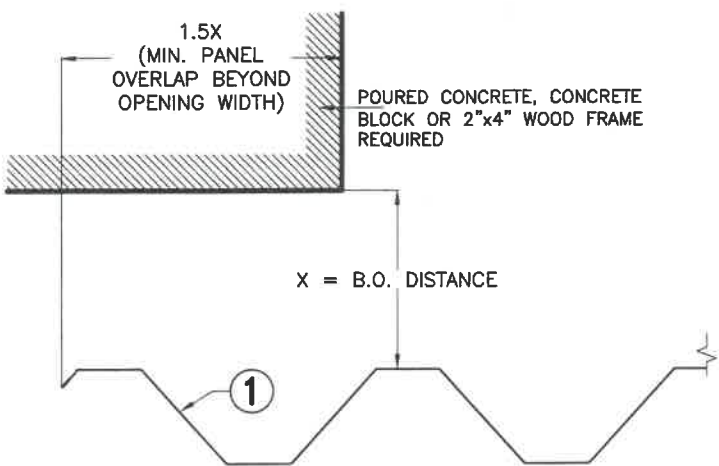
CASE B (PLAN)
SCALE 1/4"=1"



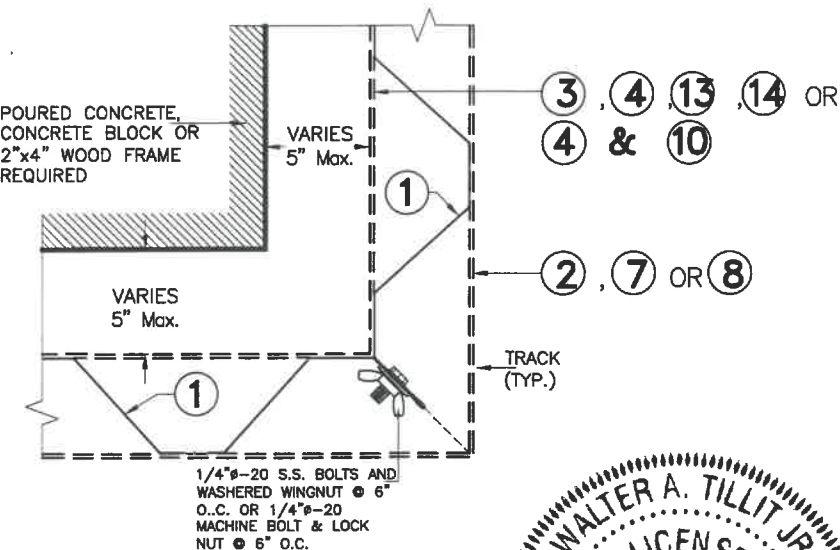
CASE C (PLAN)
SCALE 1/4"=1"



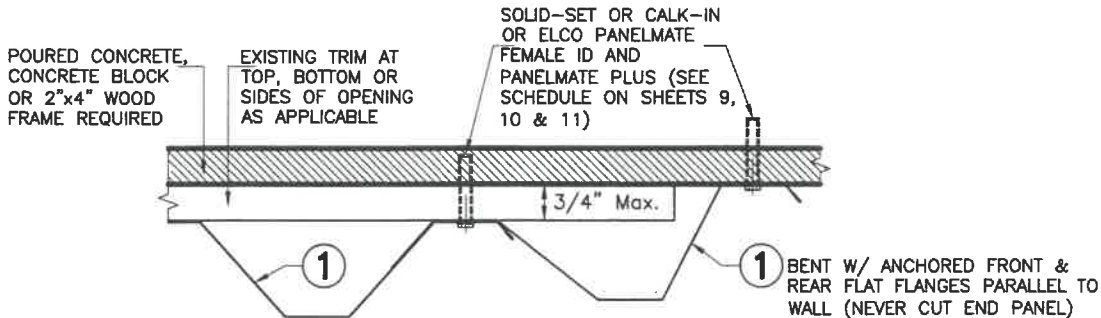
CASE D (PLAN)
SCALE 1/4"=1"



CASE E (PLAN)
SCALE 1/4"=1"



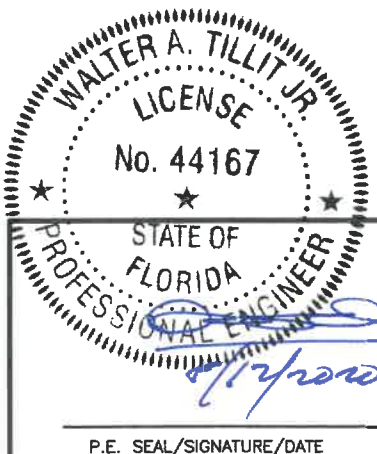
CASE F (PLAN)
SCALE 1/4"=1"



CASE G (PLAN)

SCALE 1/4"=1"
VALID FOR DIRECT MOUNT INSTALLATION ONLY &
CERTIFIED PANEL INSTALLATION AT WALLS W/
SURFACE LEVEL VARIATIONS WITHIN 3/4"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



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24 GAGE GALVANIZED STEEL STORM PANEL						F.P. DRAWN BY:	
GLOBAL PROTECTION PRODUCTS, LLC.						07/27/2020 DATE:	
4800 S.W. 51 STREET DAVE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797						20-175 DRAWING No:	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 8 OF 18	
1	OLD 17-142	07/27/20	3				
2			4				

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE
FOR REGULAR STORM PANEL ① INSTALLATIONS INTO CONCRETE & CONCRETE BLOCK STRUCTURES

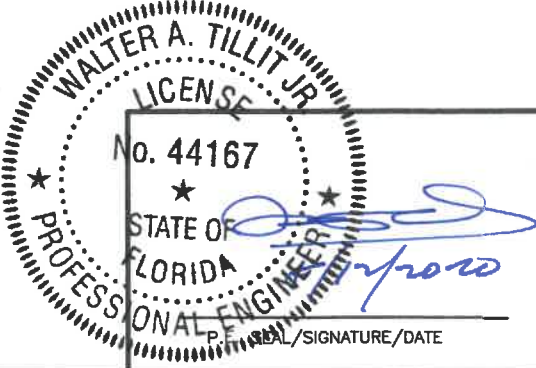
(VALID ONLY FOR PANEL ① INSTALLATIONS AS PER SECTIONS 1 THRU 6, ON SHEETS 4 & 5)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *												APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON		SOLID-SET		PANELMATE FEMALE ID		PANELMATE PLUS		ZAMAC-NAILIN		CALK-IN			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+45, -45 OR LESS	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	1 (TOP)	5'-6" OR LESS
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	1 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	2 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	2 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	3 (TOP)	
	-	-	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	12 1/2"	-	-	6 1/4"	6 1/4"	3 (BOTTOM)	
	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	7 1/2"	4 (TOP)	
	8"	-	8"	-	8"	-	8"	-	8"	-	8"	-	4 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	5 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	5 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	6 (TOP)	
	-	-	6 1/4"	6 1/4"	6 1/4"	6 1/4"	-	-	-	-	6 1/4"	6 1/4"	6 (BOTT.**)	
	13"	5"	13"	10 1/2"	13"	7"	13"	7"	7 1/2"	5 1/2"	13"	4 1/2"	1 (TOP)	>5'-6" TO 14'-4"
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6"	1 (BOTTOM)	
	13"	5"	13"	10 1/2"	13"	7"	13"	7"	7 1/2"	5 1/2"	13"	4 1/2"	2 (TOP)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6 1/2"	2 (BOTTOM)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6 1/2"	3 (TOP)	
	-	-	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	-	-	6 1/4"	6 1/4"	3 (BOTTOM)	
	7"	3"	8"	5 1/2"	7"	3 1/2"	8"	4"	4 1/2"	3"	6 1/2"	3"	4 (TOP)	
	8"	-	8"	-	8"	-	8"	-	5 1/2"	-	7 1/2"	-	4 (BOTTOM)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6"	5 (TOP)	
	13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6 1/2"	5 (BOTTOM)	
	13"	5"	13"	10 1/2"	13"	7"	13"	7"	7 1/2"	5 1/2"	13"	4 1/2"	6 (TOP)	
	-	-	6 1/4"	6 1/4"	6 1/4"	6 1/4"	-	-	-	-	6 1/4"	6 1/4"	6 (BOTT.**)	
+45, -45 TO +65, -65	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	1 (TOP)	>5'-6" TO 9'-6"
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	1 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	2 (TOP)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	2 (BOTTOM)	
	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	13"	3 (TOP)	
	-	-	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	-	-	6 1/4"	6 1/4"	3 (BOTTOM)	
	7 1/2"	3"	8"	6"	7"	4"	8"	4"	4 1/2"	3 1/2"	6 1/2"	3"	4 (TOP)	
	8"	-	8"	-	8"	-	8"	-	5 1/2"	-	7 1/2"	-	4 (BOTTOM)	
	13"	8 1/2"	13"	13"	13"	10"	13"	10"	11"	8"	13"	6 1/2"	5 (TOP)	
	13"	8 1/2"	13"	13"	13"	10"	13"	10"	11"	8"	13"	6 1/2"	5 (BOTTOM)	
	13"	6"	13"	13"	13"	8 1/2"	13"	8 1/2"	9 1/2"	6 1/2"	13"	5 1/2"	6 (TOP)	
	-	-	6 1/4"	6 1/4"	6 1/4"	6 1/4"	-	-	-	-	6 1/4"	6 1/4"	6 (BOTT.**)	

TABLE #1 Δ	
A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'-8"
> 40 PSF TO 50 PSF	6'-2"
> 50 PSF TO 60 PSF	5'-10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ SOLID SET ANCHORS & W/ ⑨A SPACER AT 12 1/2" O.C.

SEE SHEET 11 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.						
* MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.						
ANCHOR TYPE	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	TAPCON	SOLID-SET	PANELMATE FEMALE ID	PANELMATE PLUS	ZAMAC-NAILIN	CALK-IN
MINIMUM ANCHOR SPACING (in.)	3	3	3	3	2 1/2"	2 1/2"
MINIMUM EDGE DISTANCE (E.D.)	CONCRETE (in.)	3	3 1/2"	3"	3	3 1/2"
	CONCRETE BLOCK (in.)	3	3 1/2"	3 1/2"	3 1/2"	4
ACTUAL EDGE DISTANCE (E.D.)	FACTOR					
1 1/2"	0.35	-	-	-	-	-
2 1/2"	0.81	0.50	-	-	-	0.50
3"	0.90	0.78	-	1.00	-	0.63
3 1/2"	-	1.00	1.00	-	1.00	1.00
** SPACINGS ONLY VALID WHEN SPACER ⑨ IS USED. SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER ⑨A IS USED.						



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WALTER A. TILLIT Jr., P.E.
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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL						F.P. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC. 4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797						07/27/2020 DATE:
						20-175 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 17-142	07/27/20	3			
2			4			
SHEET 9 OF 18						

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING
SCHEDULE FOR REGULAR STORM PANEL ① INSTALLATIONS INTO CONCRETE & CONCRETE BLOCK STRUCTURES

(VALID ONLY FOR PANEL ① INSTALLATIONS AS PER SECTIONS 1 THRU 6, ON SHEETS 4 & 5)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR MIN E.D. PER SCHEDULE BELOW *												APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)															
	TAPCON		SOLID-SET		PANELMATE FEMALE ID		PANELMATE PLUS		ZAMAC-NAILIN		CALK-IN																		
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK																	
>+65, -65 TO +75, -75	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	1 (TOP)	5'-6" OR LESS	>+75, -75 TO +119,-119.6	13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	7 1/2"	5 1/2"	13"	4 1/2"	1 (TOP)	5'-6" OR LESS
	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	1 (BOTTOM)			13"	6 1/2"	13"	13"	13"	9"	13"	9"	10"	7 1/2"	13"	6"	1 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	2 (TOP)			13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	7 1/2"	5 1/2"	13"	4 1/2"	2 (TOP)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	2 (BOTTOM)			13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6 1/2"	2 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	3 (TOP)			13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6"	3 (TOP)	
	-	-	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	12 1/2"	-	-	6 1/4"	6 1/4"	3 (BOTTOM)			-	-	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	-	-	6 1/4"	6 1/4"	3 (BOTTOM)	
	8"	5"	8"	8"	8"	6"	8"	6 1/2"	7"	5"	8"	4 1/2"	4 (TOP)			7"	3"	8"	5 1/2"	7"	3 1/2"	8"	4"	4 1/2"	3"	6 1/2"	2 1/2"	4 (TOP)	
	8"	-	8"	-	8"	-	8"	8"	8"	-	8"	-	4 (BOTTOM)			8"	-	6 1/2"	-	8"	-	8"	-	5 1/2"	-	7"	-	4 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	5 (TOP)			13"	6 1/2"	13"	13"	13"	9"	13"	9"	10"	7 1/2"	13"	6"	5 (TOP)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	5 (BOTTOM)			13"	7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6"	5 (BOTTOM)	
	13"	11"	13"	13"	13"	13"	13"	13"	13"	12"	13"	10"	6 (TOP)			13"	5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	7 1/2"	5 1/2"	13"	4 1/2"	6 (TOP)	
	-	-	6 1/4"	6 1/4"	6 1/4"	6 1/4"	-	-	-	-	6 1/4"	6 1/4"	6 (BOTT.**)			-	-	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	-	-	6 1/4"	6 1/4"	6 (BOTT.**)	
	13"	7 1/2"	13"	13"	13"	10"	13"	10"	11"	8"	13"	6 1/2"	1 (TOP)	13"		5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	7 1/2"	5 1/2"	13"	4 1/2"	1 (TOP)	>5'-6" TO 7'-5"	
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	11 1/2"	8"	13"	7"	1 (BOTTOM)	13"		6 1/2"	13"	13"	13"	9"	13"	9"	10"	7 1/2"	13"	6"	1 (BOTTOM)		
	13"	7 1/2"	13"	13"	13"	10"	13"	10"	11"	8"	13"	6 1/2"	2 (TOP)	13"		5"	13"	10 1/2"	13"	6 1/2"	13"	6 1/2"	7 1/2"	5 1/2"	13"	4 1/2"	2 (TOP)		
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	11 1/2"	8"	13"	7"	2 (BOTTOM)	13"		7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6 1/2"	2 (BOTTOM)		
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	11 1/2"	8"	13"	7"	3 (TOP)	13"		7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6"	3 (TOP)		
	-	-	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	-	-	6 1/4"	6 1/4"	3 (BOTTOM)	-		-	12 1/2"	12 1/2"	6 1/4"	6 1/4"	12 1/2"	6 1/4"	-	-	6 1/4"	6 1/4"	3 (BOTTOM)		
	7 1/2"	3 1/2"	8"	6"	7 1/2"	4"	8"	4 1/2"	5"	3 1/2"	7"	3"	4 (TOP)	7"		3"	8"	5 1/2"	7"	3 1/2"	8"	4"	4 1/2"	3"	6 1/2"	2 1/2"	4 (TOP)		
	8"	-	8"	-	8"	-	8"	-	6"	-	8"	-	4 (BOTTOM)	8"		-	6 1/2"	-	8"	-	8"	-	5 1/2"	-	7"	-	4 (BOTTOM)		
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	11 1/2"	8"	13"	7"	5 (TOP)	13"		6 1/2"	13"	13"	13"	9"	13"	9"	10"	7 1/2"	13"	6"	5 (TOP)		
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	11 1/2"	8"	13"	7"	5 (BOTTOM)	13"		7"	13"	13"	13"	9 1/2"	13"	9 1/2"	10 1/2"	7 1/2"	13"	6"	5 (BOTTOM)		
	13"	7 1/2"	13"	13"	13"	10 1/2"	13"	10 1/2"	11 1/2"	8"	13"	7"	6 (TOP)	13"		5"	13"		13"	6 1/2"	13"	6 1/2"	7 1/2"	5 1/2"	13"	4 1/2"	6 (TOP)		
	-	-	6 1/4"	6 1/4"	6 1/4"	6 1/4"	-	-	-	-	6 1/4"	6 1/4"	6 (BOTT.**)	-		-	6 1/4"	6 1/4"	6 1/4"	6 1/4"	-	-	-	-	6 1/4"	6 1/4"	6 (BOTT.**)		

SEE SHEET 11 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

* MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.

ANCHOR TYPE	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	TAPCON	SOLID-SET	PANELMATE FEMALE ID	PANELMATE PLUS	ZAMAC-NAILIN	CALK-IN
MINIMUM ANCHOR SPACING (in.)	3	3	3	3	2 1/2"	2 1/2"
MINIMUM EDGE DISTANCE (E.D.)	CONCRETE (in.)	3	3 1/2"	3"	3	3 1/2"
	CONCRETE BLOCK (in.)	3	3 1/2"	3 1/2"	3 1/2"	4
ACTUAL EDGE DISTANCE (E.D.)	FACTOR					
1 1/2"	0.35	-	-	-	-	-
2 1/2"	0.81	0.50	-	-	-	0.50
3"	0.90	0.78	-	1.00	-	0.63
3 1/2"	-	1.00	1.00	-	1.00	1.00

** SPACINGS ONLY VALID WHEN SPACER ⑨ IS USED. SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER ⑨A IS USED.

TABLE #1 Δ	
A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'-8"
> 40 PSF TO 50 PSF	6'-2"
> 50 PSF TO 60 PSF	5'-10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ SOLID SET ANCHORS & W/ ⑨A SPACER AT 12 1/2" O.C.



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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL		F.P. DRAWN BY:			
GLOBAL PROTECTION PRODUCTS, LLC.		07/27/2020 DATE:			
4800 S.W. 51 STREET DAVIE, FL 33314 PHONE: (954)689-7545, FAX: (954)689-8797		20-175 DRAWING No:			
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		
SHEET 10 OF 18					

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING

SCHEDULE FOR REGULAR STORM PANEL ① INSTALLATIONS INTO WOOD STRUCTURES

(VALID ONLY FOR PANEL ① INSTALLATIONS AS PER ALTERNATIVES 1W THRU 4W, ON SHEETS 6 & 7)

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E.D. = AS SHOWN ON SHEETS 6 & 7					APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON	LAG SCREW	PANELMATE FEMALE ID	PANELMATE PLUS	WOOD BUSHING		
+45, -45 OR LESS	13"	13"	13"	13"	13"	1W (TOP)	5'-0" OR LESS
	13"	13"	13"	13"	13"	1W (BOTTOM)	
	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	2W (TOP)	
	-	-	6 1/4"	12 1/2"	6 1/4"	2W (BOTT.*)	
	8"	8"	8"	8"	-	3W (TOP)	
	8"	8"	8"	8"	-	3W (BOTTOM)	
	13"	13"	13"	13"	13"	4W (TOP)	
	13"	13"	13"	13"	13"	4W (BOTTOM)	
	13"	13"	13"	13"	8 1/2"	1W (TOP)	>5'-0" TO 14'-4"
	13"	13"	13"	13"	6"	1W (BOTTOM)	
	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	2W (TOP)	
	-	-	6 1/4"	12 1/2"	6 1/4"	2W (BOTT.*)	
	4 1/2"	4"	6 1/2"	6 1/2"	-	3W (TOP)	
	4 1/2"	4 1/2"	7"	7"	-	3W (BOTTOM)	
	10 1/2"	9 1/2"	12"	12"	4"	4W (TOP)	
	13"	13"	13"	13"	8 1/2"	4W (BOTTOM)	

* SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER ⑨A IS USED, CORRESPONDING ONLY TO ALTERNATE 2W' ON SHEET 6

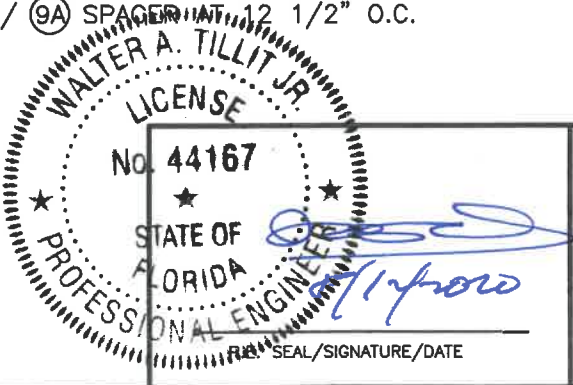
MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E.D. = AS SHOWN ON SHEETS 6 & 7					APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON	LAG SCREW	PANELMATE FEMALE ID	PANELMATE PLUS	WOOD BUSHING		
>+45, -45 TO +75, -75	13"	13"	13"	13"	13"	1W (TOP)	5'-0" OR LESS
	13"	13"	13"	13"	8"	1W (BOTTOM)	
	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	2W (TOP)	
	-	-	6 1/4"	12 1/2"	6 1/4"	2W (BOTT.*)	
	7"	7 1/2"	8"	8"	-	3W (TOP)	
	7 1/2"	8"	8"	8"	-	3W (BOTTOM)	
	13"	13"	13"	13"	13"	4W (TOP)	
	13"	13"	13"	13"	13"	4W (BOTTOM)	
	13"	13"	13"	13"	10"	1W (TOP)	>5'-0" TO 7'-5"
	13"	13"	13"	13"	6 1/4"	1W (BOTTOM)	
	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	2W (TOP)	
	-	-	6 1/4"	12 1/2"	6 1/4"	2W (BOTT.*)	
	4 1/2"	5"	7 1/2"	7 1/2"	-	3W (TOP)	
	5"	5 1/2"	8"	8"	-	3W (BOTTOM)	
	13"	12"	13"	13"	5 1/2"	4W (TOP)	
	13"	13"	13"	13"	10"	4W (BOTTOM)	

* SEE TABLE #1 FOR MAX. A.S.D. DESIGN LOADS & MAX. PANEL LENGTHS WHEN SPACER ⑨A IS USED, CORRESPONDING ONLY TO ALTERNATE 2W' ON SHEET 6

TABLE #1 Δ

A.S.D. DESIGN LOAD	MAXIMUM PANEL LENGTH
40 PSF OR LESS	6'-8"
> 40 PSF TO 50 PSF	6'-2"
> 50 PSF TO 60 PSF	5'-10"

Δ MAX. PANEL LENGTHS ARE ONLY VALID FOR INSTALLATIONS W/ PANEL MATE FEMALE ID OR PANEL MATE PLUS ANCHORS & W/ ⑨A SPACER AT 12 1/2" O.C.



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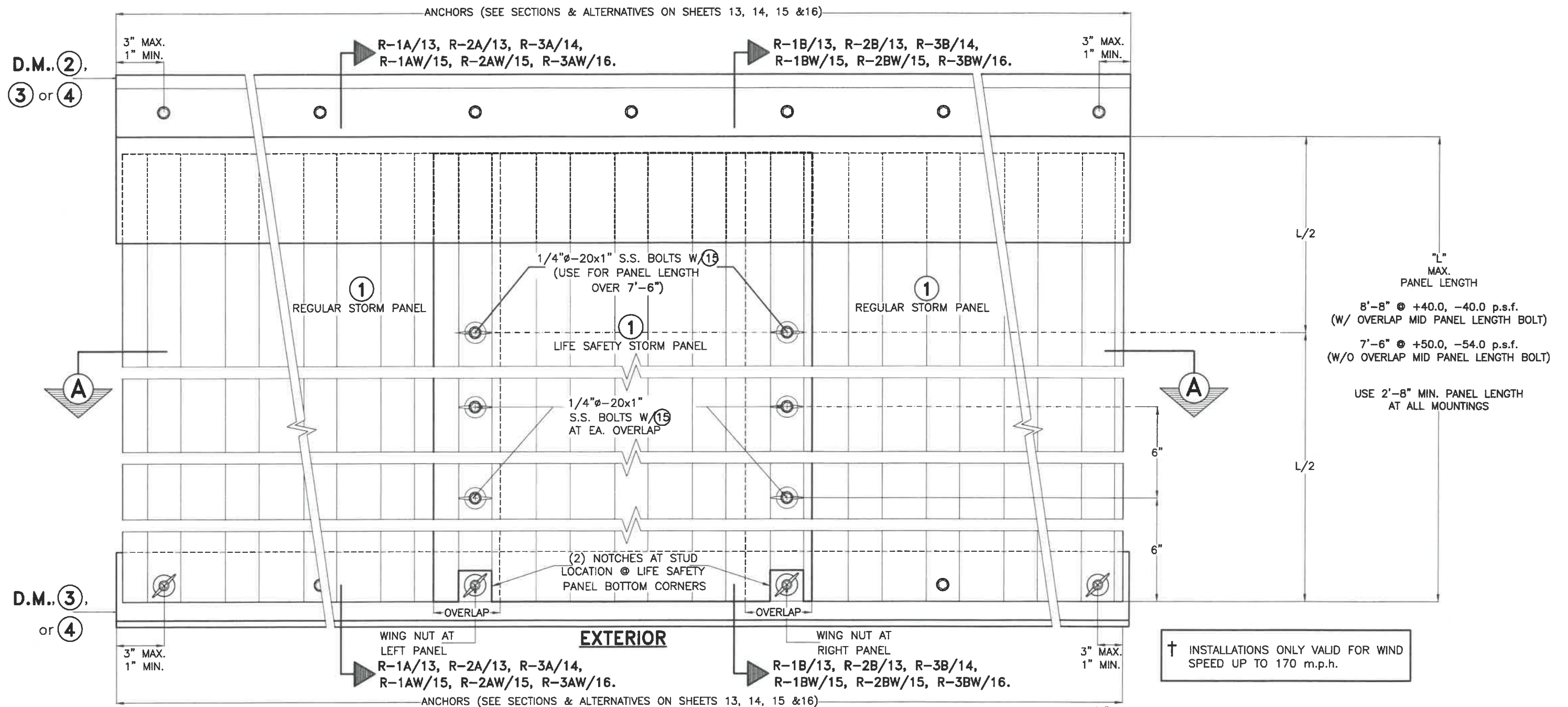
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.
4800 S.W. 51 STREET
DAVIE, FL 33314
PHONE: (954)689-7545, FAX: (954)689-8797

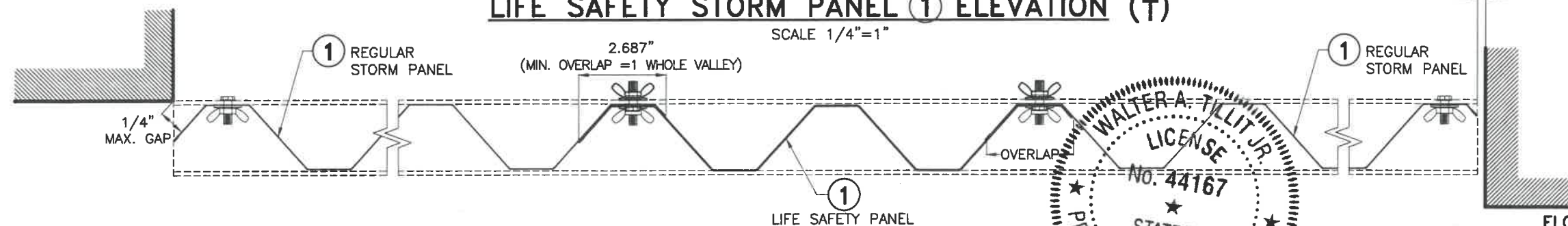
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

F.P. DRAWN BY:
07/27/2020 DATE:
20-175 DRAWING No:
SHEET 11 OF 18



LIFE SAFETY STORM PANEL ① ELEVATION (†)

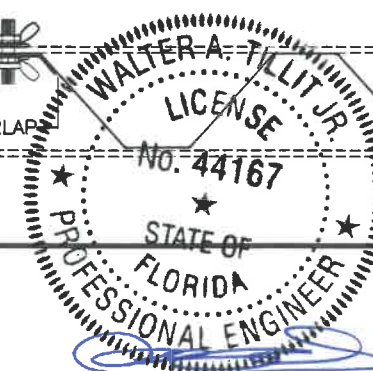
SCALE 1/4"=1"



EXTERIOR

SECTION A-A

SCALE 1/4"=1"



P.E. SEAL/SIGNATURE/DATE

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

F.P.
DRAWN BY:

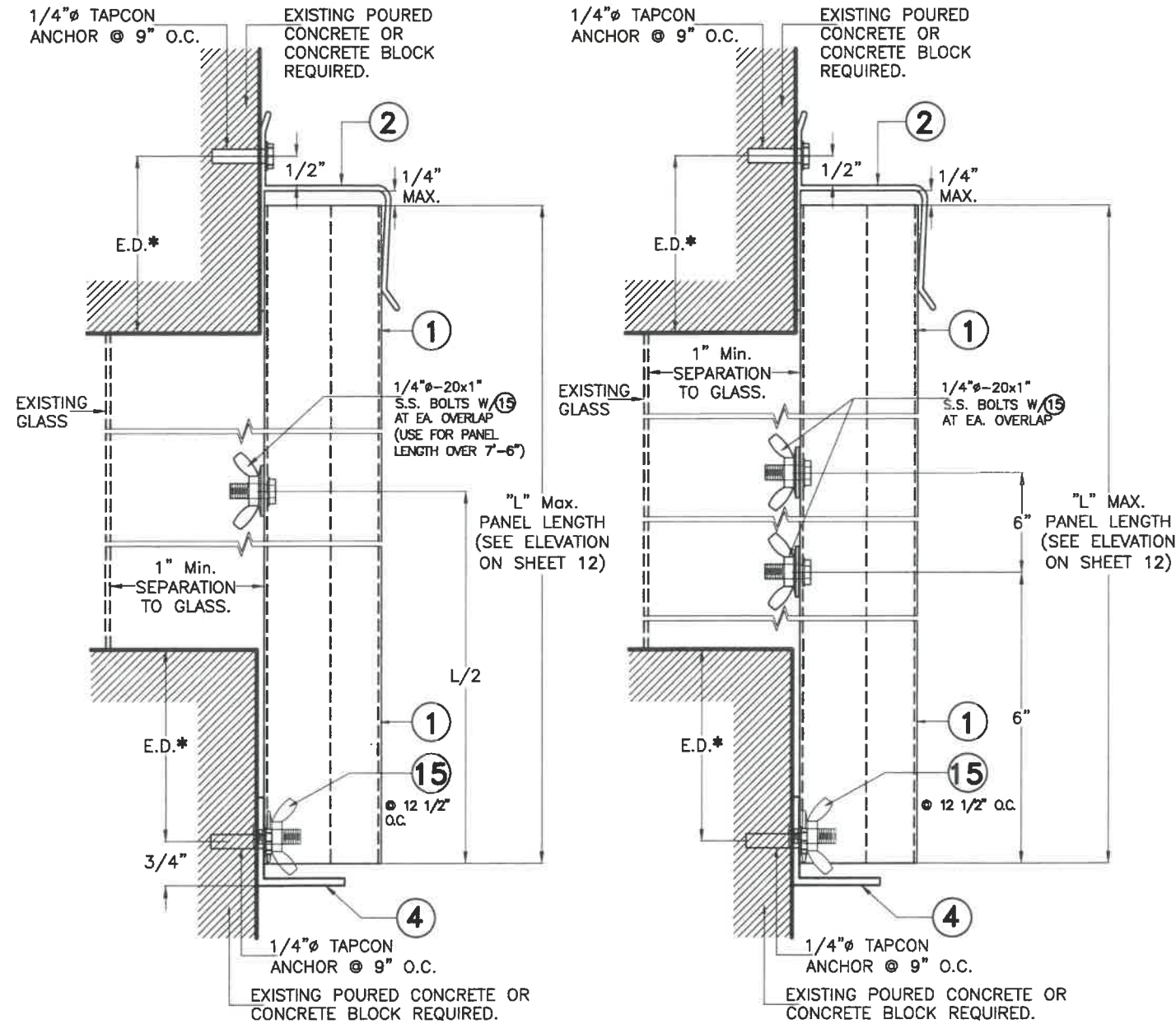
07/27/2020
DATE:

20-175

DRAWING No:

SHEET 12 OF 18

INSTALLATION DETAILS FOR LIFE SAFETY PANEL ① **INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES**



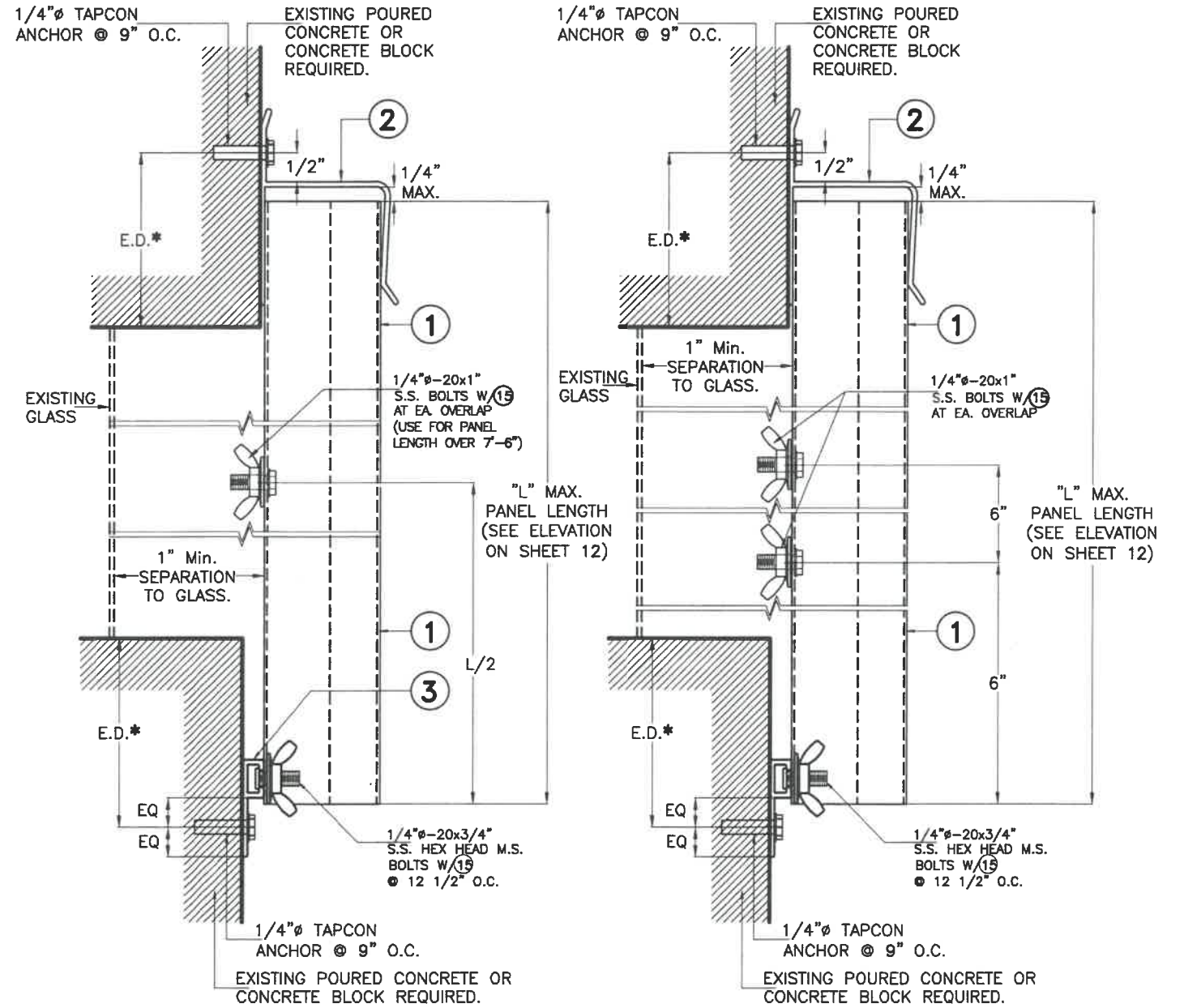
SECTION R-1A
● REGULAR PANELS

SECTION R-1B
● LIFE SAFETY PANEL

WALL MOUNTINGS
 SCALE 3/8=1"

SEE SHEETS 15 & 16 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.

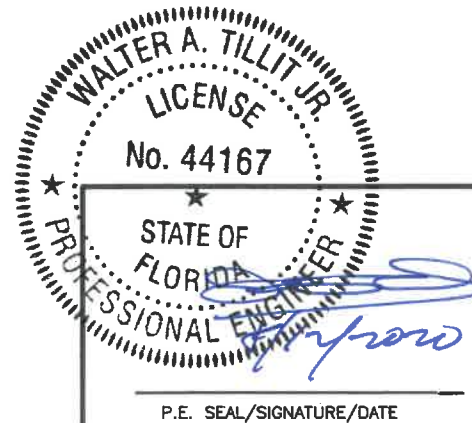
ANCHOR TYPE		1/4"Ø TAPCON
MINIMUM ANCHOR SPACING (in.)		3
* MINIMUM EDGE DISTANCE (E.D.)	Concrete (in.)	3
	Concrete Block (in.)	3
ACTUAL EDGE DISTANCE (E.D.)		FACTOR
1 1/2"		0.35
2 1/2"		0.81
3"		0.90
3 1/2"		-



SECTION R-2A
● REGULAR PANELS

SECTION R-2B
● LIFE SAFETY PANEL

WALL MOUNTINGS
 SCALE 3/8=1"

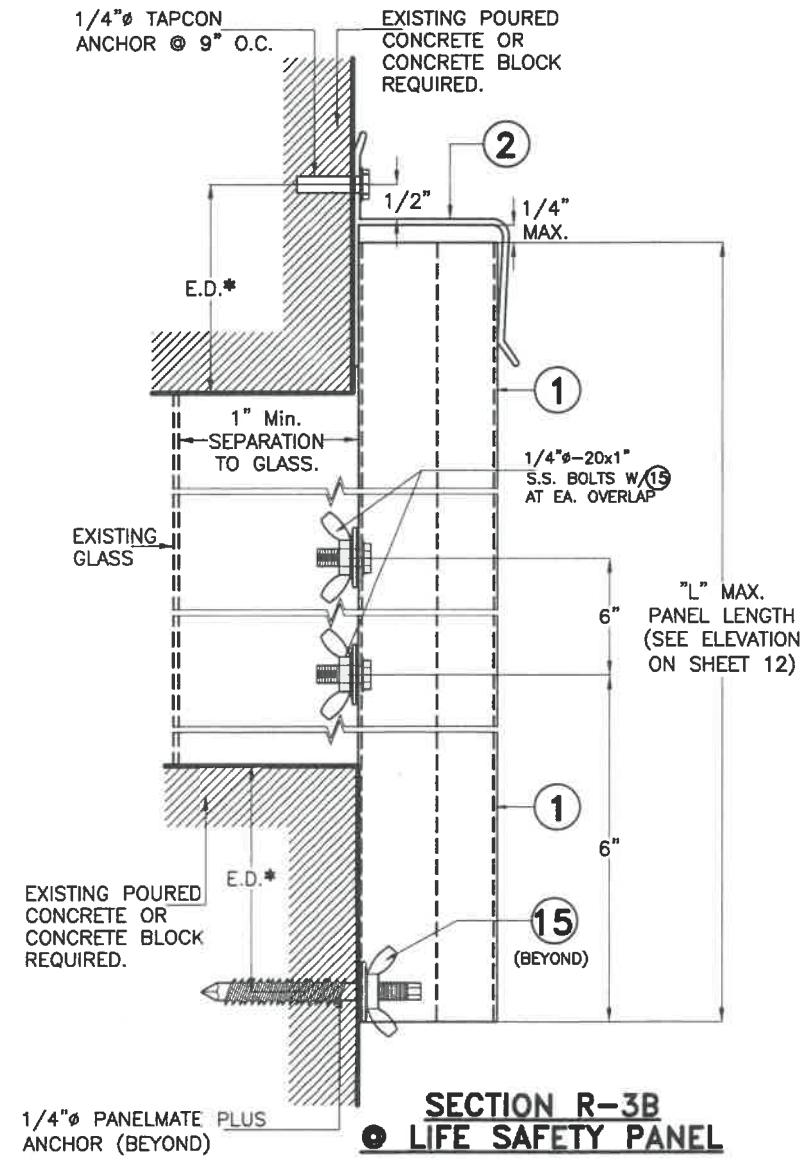
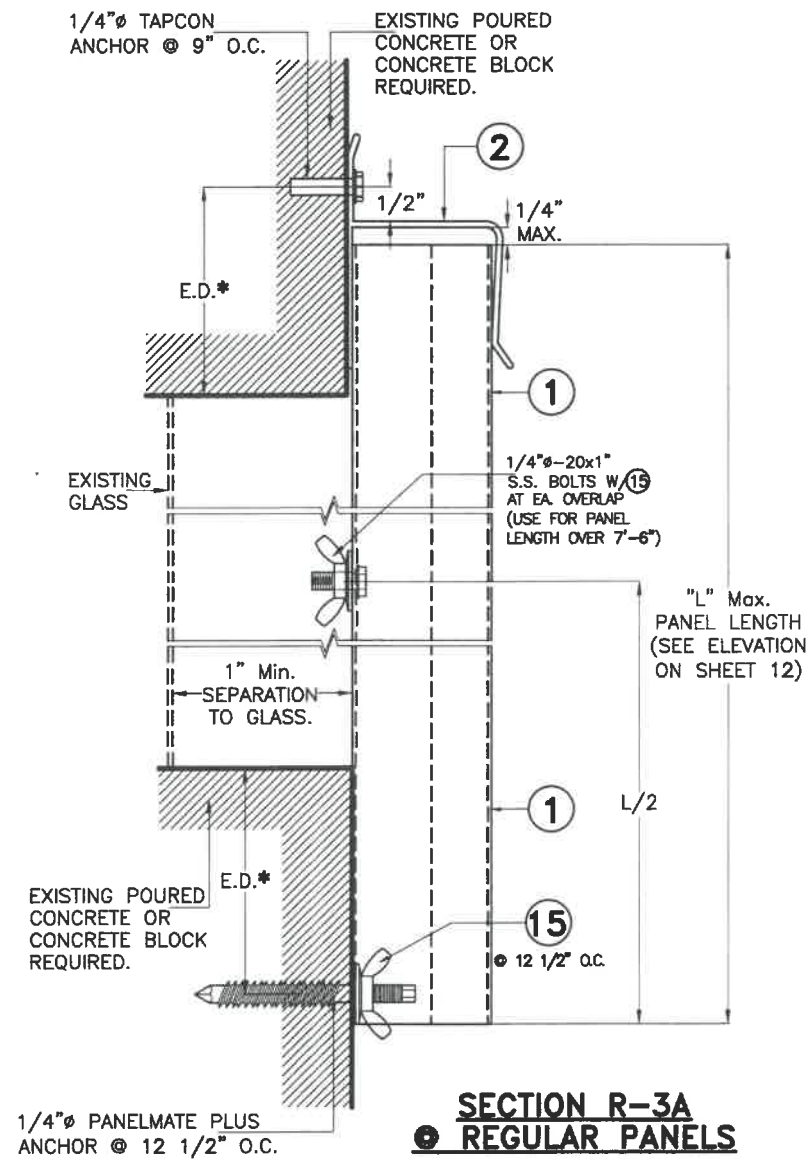


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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		
					SHEET 13 OF 18

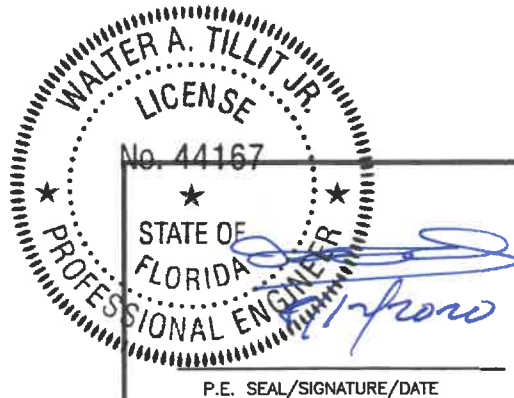
INSTALLATION DETAILS FOR LIFE SAFETY PANEL ①
INTO POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



WALL MOUNTINGS
SCALE 3/8"=1"

SEE SHEETS 15 & 16 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE ON THIS SCHEDULE.

ANCHOR TYPE	1/4"Ø	1/4"Ø
	TAPCON	PANELMATE PLUS
MINIMUM ANCHOR SPACING (in.)	3	3
*MINIMUM EDGE DISTANCE (E.D.)	Concrete (in.)	3
	Concrete Block (in.)	3 1/2
ACTUAL EDGE DISTANCE (E.D.)	FACTOR	
1 1/2"	0.35	-
2 1/2"	0.81	-
3"	0.90	1.00
3 1/2"	-	-

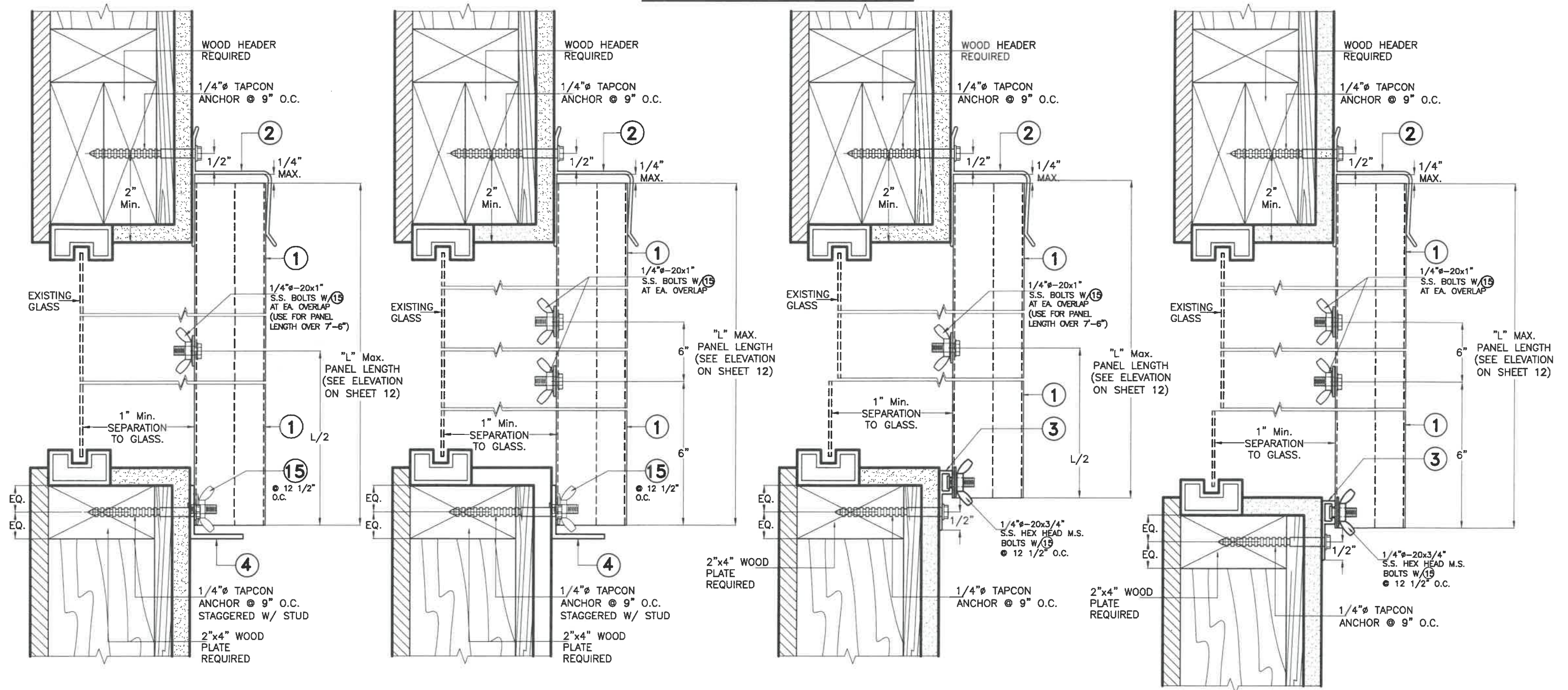


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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL					F.P. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.					07/27/2020 DATE:
4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797					20-175 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		
					SHEET 14 OF 18

INSTALLATION DETAILS FOR LIFE SAFETY PANEL ① INTO WOOD STRUCTURES



ALTERNATIVE R-1AW
● REGULAR PANELS

ALTERNATIVE R-1BW
● LIFE SAFETY PANEL

ALTERNATIVE R-2AW
● REGULAR PANELS

ALTERNATIVE R-2BW
● LIFE SAFETY PANEL

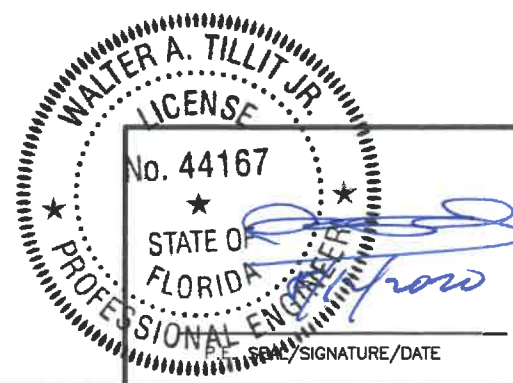
WALL MOUNTINGS

SCALE 3/8"=1"

WALL MOUNTINGS

NOTES:

1. INSTALLATION ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATINGS (p.s.f) AND PANEL LENGTHS AS PER ELEVATION ON SHEET **12**.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

24 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.

4800 S.W. 51 STREET
DAVE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

F.P.

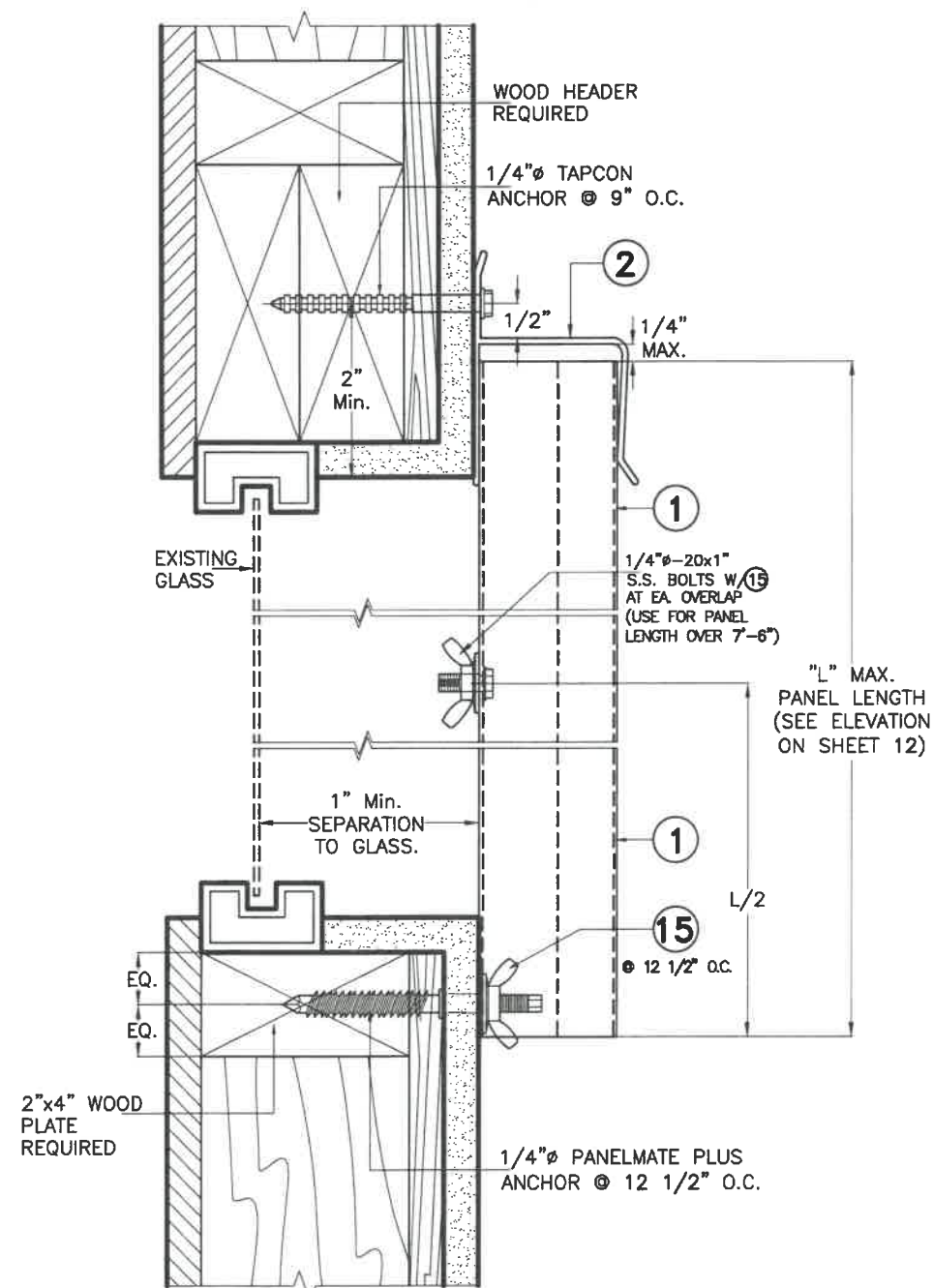
DRAWN BY:

DATE: /27/2020

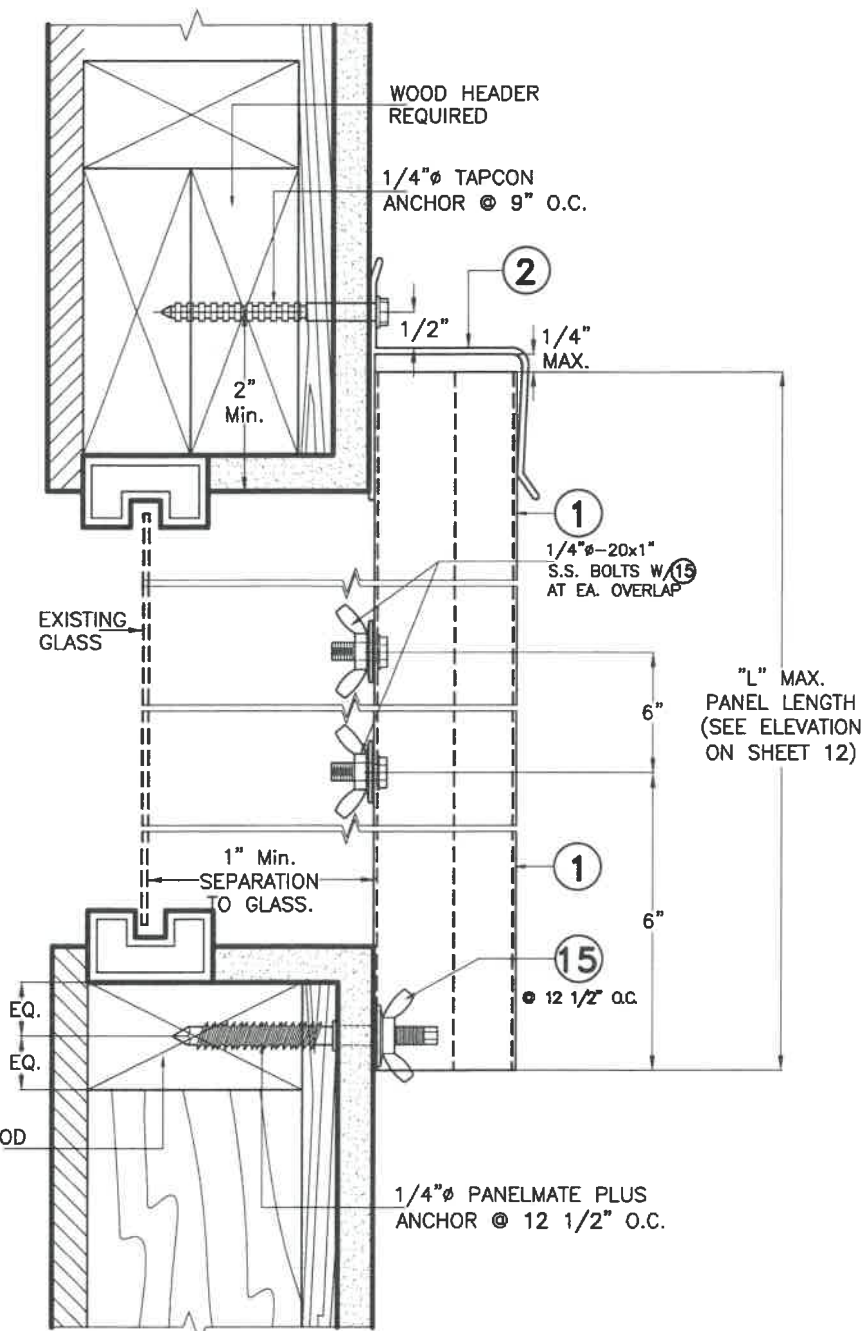
0-175
DRAWING No:

SHEET 15 OF 18

INSTALLATION DETAILS FOR LIFE SAFETY PANEL ① **INTO WOOD STRUCTURES**



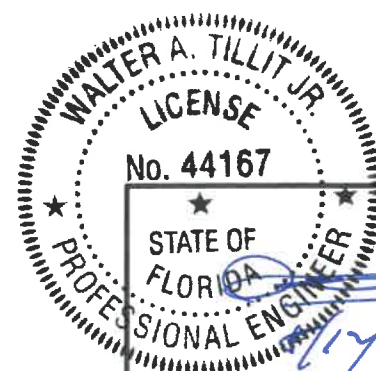
ALTERNATIVE R-3AW
● **REGULAR PANELS**



ALTERNATIVE R-3BW
● **LIFE SAFETY PANEL**

WALL MOUNTINGS
SCALE 3/8"=1"

- NOTES:**
1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATINGS (p.s.f) AND PANEL LENGTHS AS PER ELEVATION ON SHEET 12.
 2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



P.E. SEAL/SIGNATURE/DATE

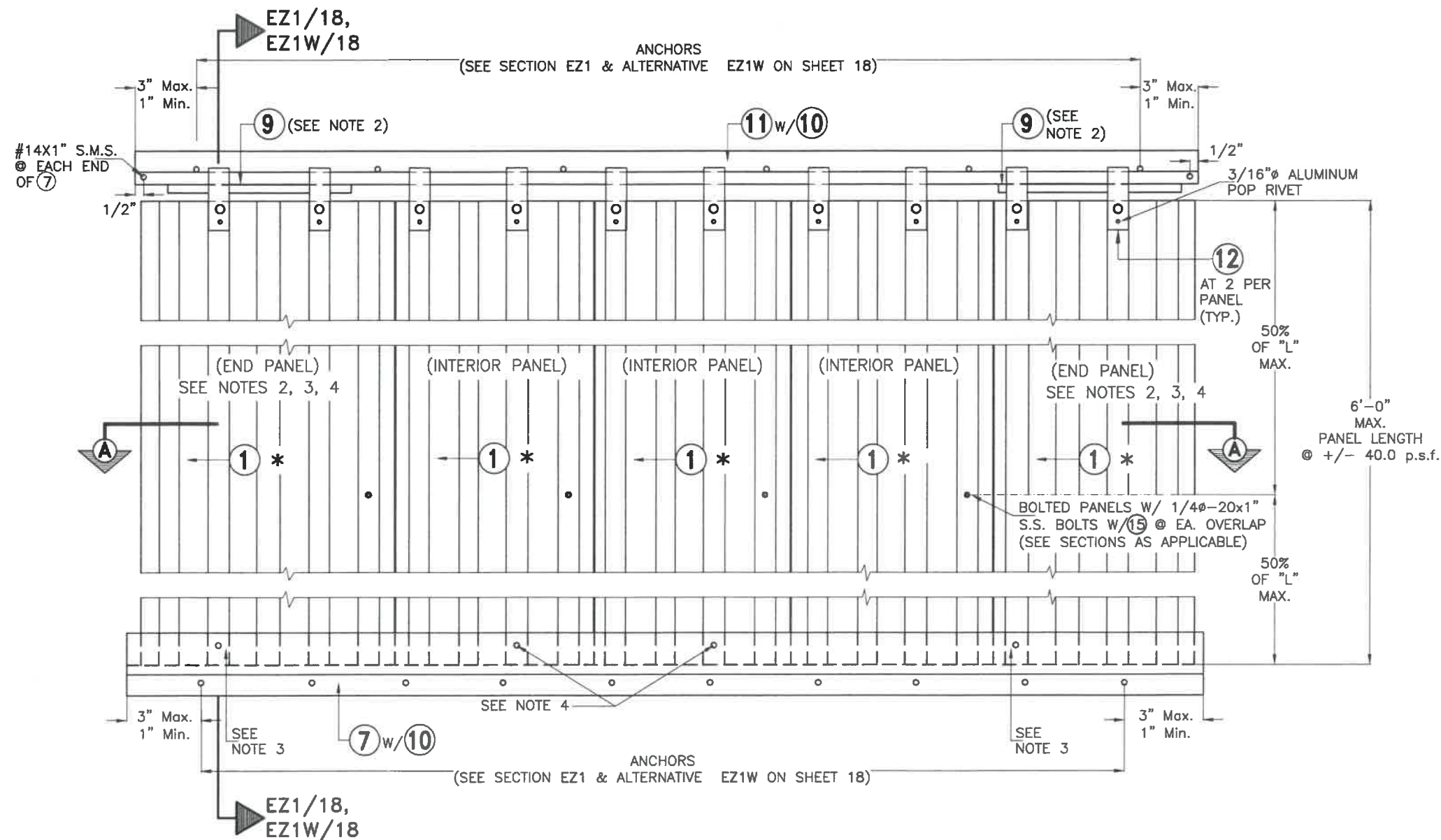
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GLOBAL PROTECTION PRODUCTS, LLC.						07/27/2020 DATE:
4800 S.W. 51 STREET DAVIE, FL 33314 PHONE: (954)689-7545, FAX: (954)689-8797						20-175 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 16 OF 18
1	OLD 17-142	07/27/20	3			
2			4			



* LAST PANEL (1) TO BE INSTALLED AT EACH OPENING SHALL ALWAYS BE PROVIDED W/ REAR HANDLE TO FACILITATE INSTALLATION IF INTENDED TO BE INSTALLED FROM INSIDE OF STRUCTURE.

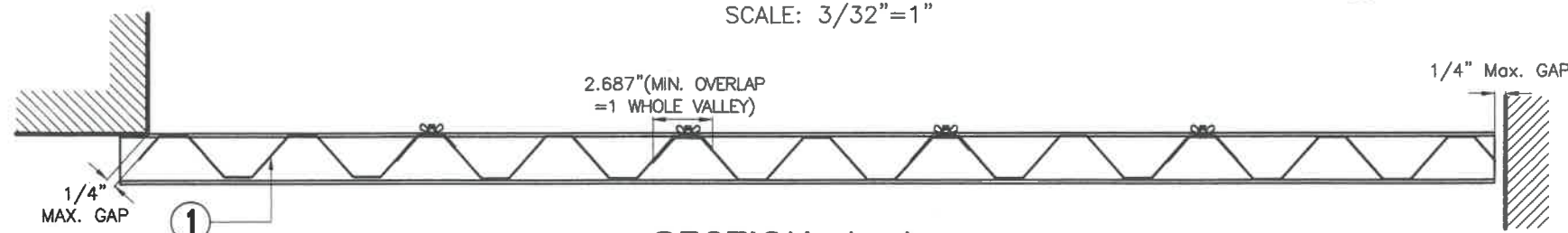
NOTES :

- DEFINITION OF SERIES 2000: E-Z HANG STORM PANEL SYSTEM CONSISTING OF PANEL + Cont. TRACKS TOP & BOTTOM.
- END PANELS SHALL ALWAYS BE CONNECTED TO BOTTOM TRACK OTHERWISE A STOP BAR (9) SHALL BE PROVIDED AT TOP OF SUCH PANELS.
- IF END PANELS ARE CONNECTED TO BOTTOM TRACK, CONNECTION SHALL CONSIST OF 1/4"Ø-20x3/4" M.S. W/ 7/8"Øx3/32" WING NUT OR 1/4"Øx3/4" Min. THUMBSCREW INTO TAPPED BOTTOM TRACK. LOCATION OF FASTENERS MAY BE AT EITHER OF TWO EXTERIOR FLAT FLANGES OF END PANEL.
- IN CASE THAT END PANELS ARE NOT CONNECTED TO BOTTOM TRACK (i.e. A STOP BAR IS ONLY USED AT TOP) AT LEAST TWO PANELS SHALL BE CONNECTED TO BOTTOM TRACK USING SPECS INDICATED ON NOTE (3) ABOVE. IN SUCH CASE, CONNECTION OF PANELS TO BOTTOM TRACK MAY OCCUR AT ANY PANEL LOCATION.

† INSTALLATIONS ONLY VALID FOR WIND SPEED UP TO 170 m.p.h.

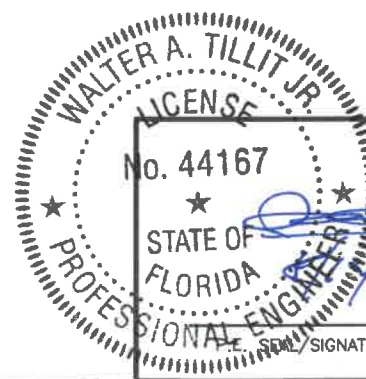
TYPICAL ELEVATION FOR SERIES 2000 E-Z HANG STORM PANEL (1) SYSTEM (†)

SCALE: 3/32"=1"



SECTION A-A

SCALE: 3/32"=1"



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

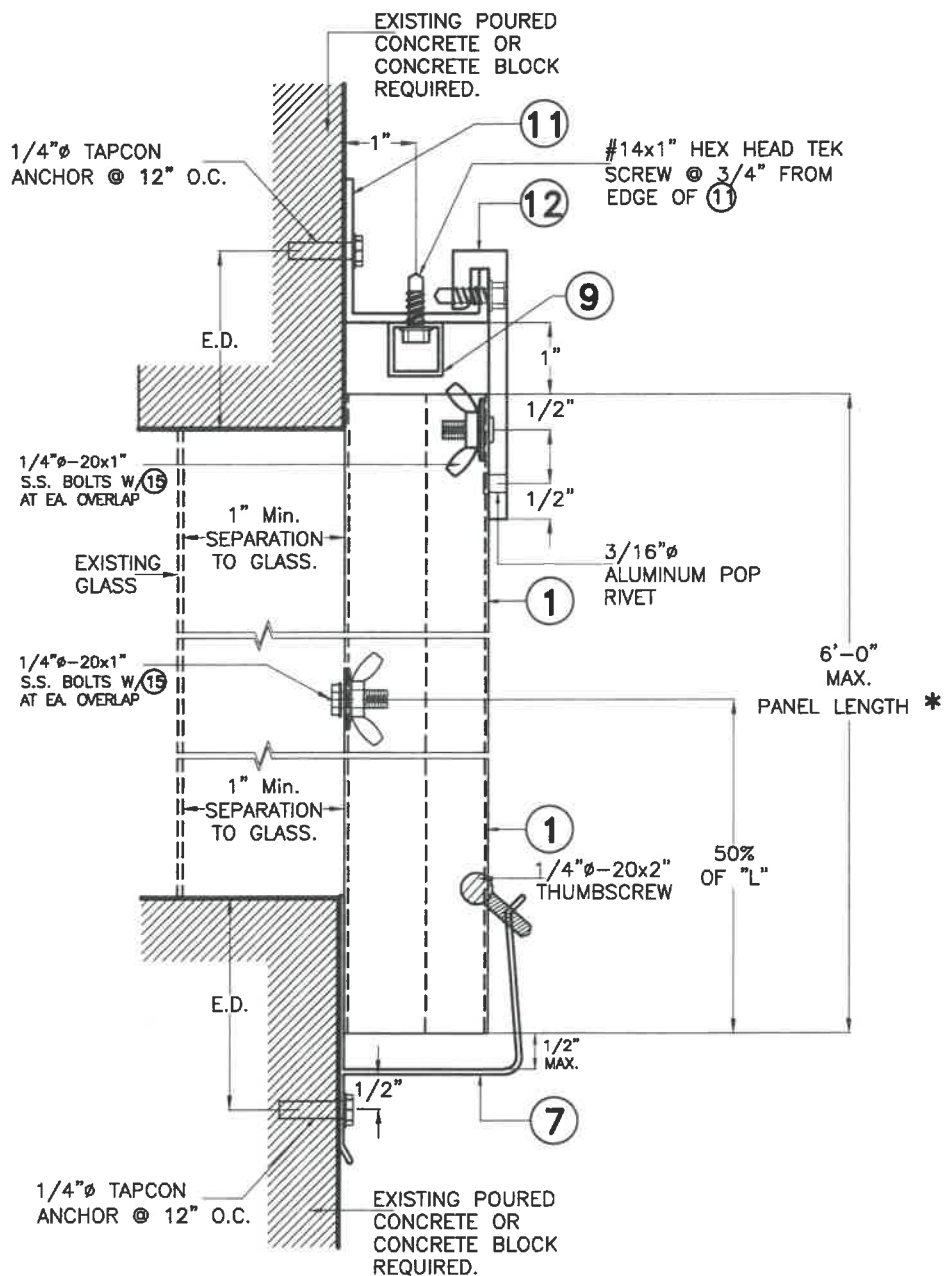
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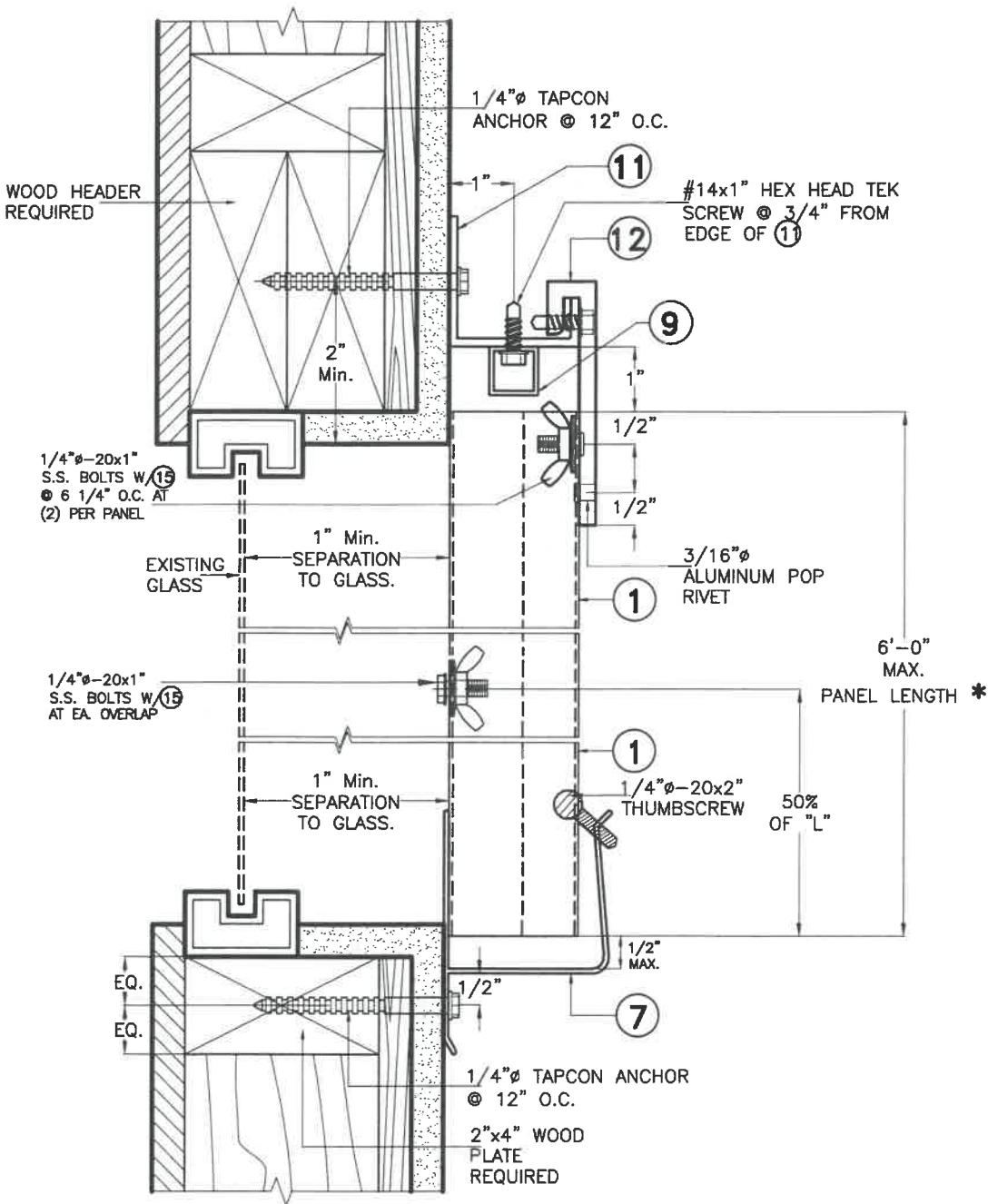
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-142	07/27/20	3		
2			4		

F.P.
 DRAWN BY:
 07/27/2020
 DATE:
 20-175
 DRAWING No:
 SHEET 17 OF 18

INSTALLATION DETAILS FOR SERIES 2000 E-Z HANG STORM PANEL ①
INTO POURED CONCRETE, CONCRETE BLOCK AND WOOD STRUCTURES



WALL MOUNTING
SECTION EZ1
SCALE 3/8=1"



WALL MOUNTING
ALTERNATIVE EZ1W
SCALE 3/8=1"

NOTES:

1. INSTALLATION ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING +/- 40.0 p.s.f. AND 6'-0" MAX PANEL LENGTH.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

* MIN. PANEL LENGTH SHALL BE 2'-6"



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1	OLD 17-142	07/27/20	3		
2			4		
				SHEET 18 OF 18	