

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2026 (9th EDITION)** OF THE FLORIDA BUILDING CODE.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, FOR A WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THESE SHUTTERS WILL BE INSTALLED AND FOR A DIRECTIONALITY FACTOR $K_d=0.85$. USING **ASCE 7-22** SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 4 THRU 9.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 4 THRU 9.

IN ORDER TO VERIFY THAT COMPONENTS AND 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. A DURATION FACTOR $CD=1.60$ WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.

STORM PANEL'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1626** OF THE ABOVE MENTIONED CODE AS PER AMERICAN TEST LAB REPORTS # 0425.01-00 AND # 0616.01-05, PER PROTOCOLS TAS-201, TAS-202 AND TAS-203.

2. ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY ASTM A653 SQ, GRADE 40, WITH G-90 GALVANIZED STEEL DESIGNATION & $F_y= 52.3$ ksi. (AFTER ROLLED)
3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY & TEMPER UNLESS OTHERWISE NOTED. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.
4. ALL SCREWS SHALL 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 & SHALL COMPLY WITH FLORIDA BUILDING CODE **SECTIONS 2411.3.3.4 & 1711**.
5. BOLTS SHALL BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL, WITH 36 ksi MINIMUM YIELD STRENGTH.
6. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED).
- (A) TO EXISTING POURED CONCRETE ($f'_c=3$ ksi):
- 1/4" $\varnothing$ 410 S.S TAPCONS OR 1/4" $\varnothing$ ULTRACON+ OR ULTRACON SS4 AS MANUFACTURED BY I.T.W./BUILDEX.
 - 1/4" $\varnothing$ CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY DEWALT INC.
 - 1/4" $\varnothing$ ELCO male & female "PANELMATE" OR 1/4" $\varnothing$ ELCO male "PANELMATE PLUS" AS MANUFACTURED BY DEWALT, INC. AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.
 - 1/4" $\varnothing$ ALL THREADED 304 S.S RODS ANCHORS, BY HILLMAN GROUP.

NOTES:

A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF 1/4" $\varnothing$ ANCHOR IS 1 3/4.

A.2) FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" $\varnothing$ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

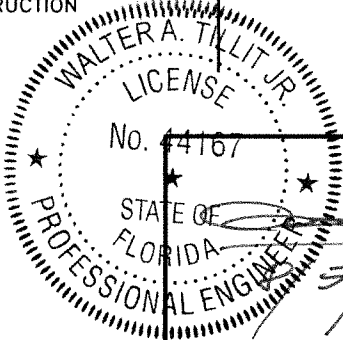
A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS, ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1) & A.2) ABOVE.

- (B) TO EXISTING CONCRETE BLOCK WALL (ASTM C-90):
- 1/4" $\varnothing$ 410 S.S TAPCONS OR 1/4" $\varnothing$ ULTRACON+ OR ULTRACON SS4 AS MANUFACTURED BY I.T.W./BUILDEX. OR DEWALT RESPECTIVELY.
 - 1/4" $\varnothing$ CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY DEWALT INC.
 - 1/4" $\varnothing$ ELCO male & female "PANEL MATE" OR
 - 1/4" $\varnothing$ ELCO male "PANEL MATE PLUS" AS MANUFACTURED BY DEWALT, INC. AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.
 - 3/8" $\varnothing$ RED HEAD DYNABOLT SLEEVE ANCHORS AS MANUFACTURED BY RED HEAD.
 - 1/4" $\varnothing$ ALL THREADED 304 S.S. RODS ANCHORS, BY HILLMAN GROUP.

NOTES:

- B.1) MINIMUM EMBEDMENT OF 1/4" $\varnothing$ & 3/8" $\varnothing$, INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" $\varnothing$ -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 BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES IN B.1) & B.2) ABOVE.
- (C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300ft OF THE COASTAL SHORELINE.
7. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 1 THRU 8 (SHEET 2 & 3 OF 9) EXCEPT THAT HEADERS 2, 3 & 4 SHALL NOT BE USED.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO ENSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
9. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL SHUTTER TRACKS ALL AROUND FULL LENGTH.
10. STORM PANEL INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE A PERMIT IS APPLIED FOR.
11. (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) THE CONTRACTOR IS 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 WHO 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 THE 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 WHO PREPARED IT.
12. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE STORM PANEL IN ACCORDANCE WITH SECTION **1709.9.3** OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION **1709.9.2** OF THE FLORIDA BUILDING CODE.

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA



P.E. SEAL/SIGNATURE/DATE

© 2026 TILTECO, INC.

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
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL
STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)533-6061
FAX: (561)588-4780

W.H.
DRAWN BY:

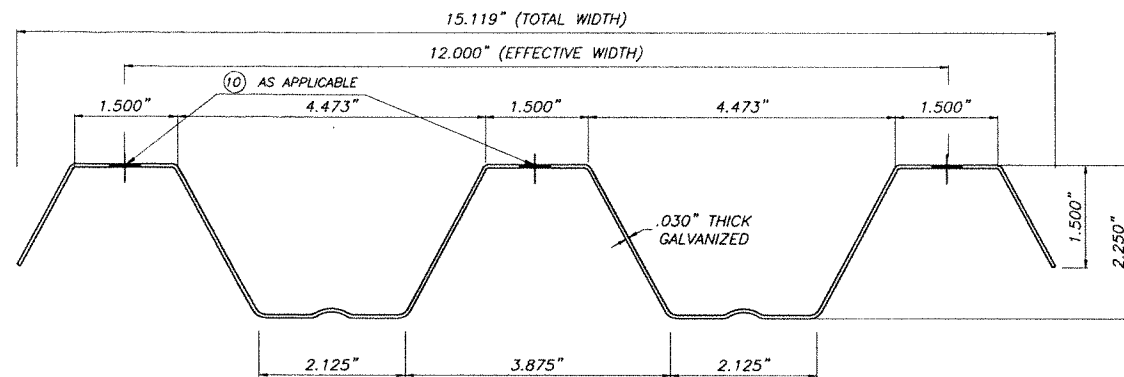
7/24/2026
DATE:

26-233

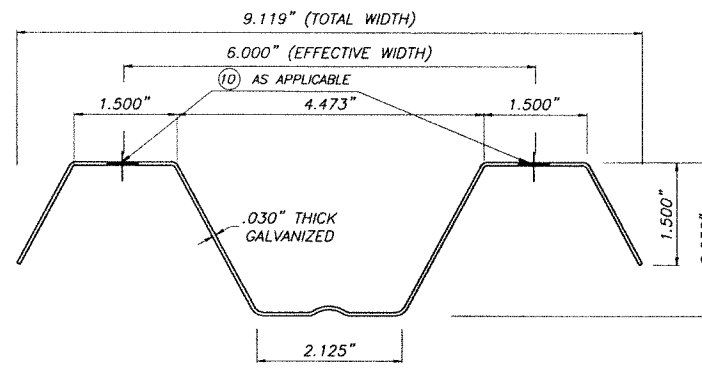
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		

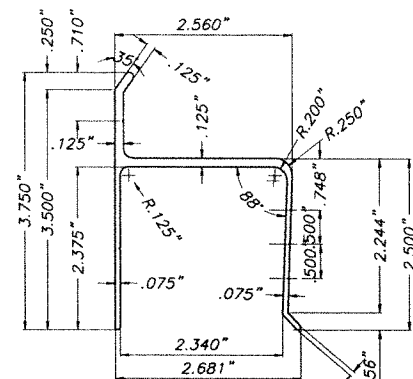
SHEET 1 OF 9



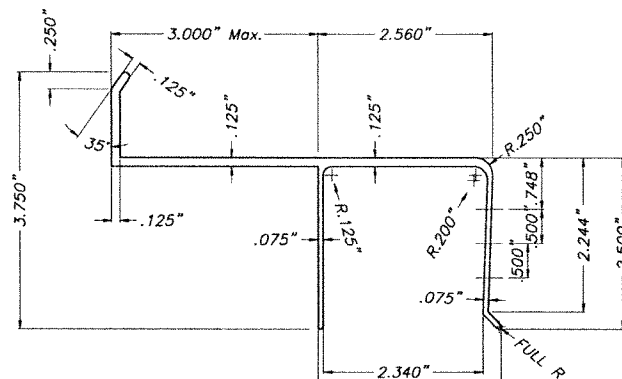
1 PANEL
SCALE: 3/8" = 1"



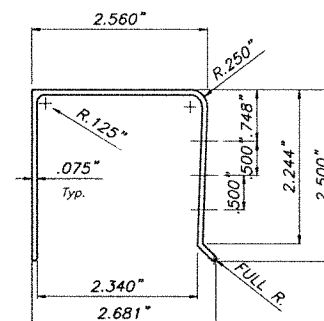
1A HALF PANEL
SCALE: 3/8" = 1"



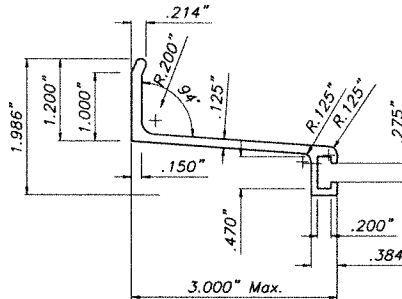
2 "h" HEADER
SCALE: 3/8" = 1"



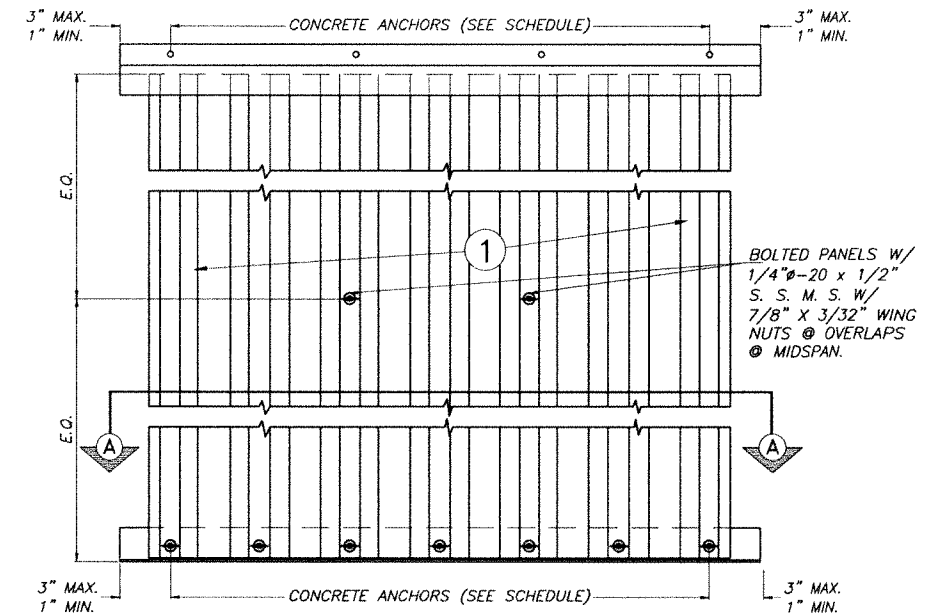
3 3" Max. "U" BUILD OUT
SCALE: 3/8" = 1"



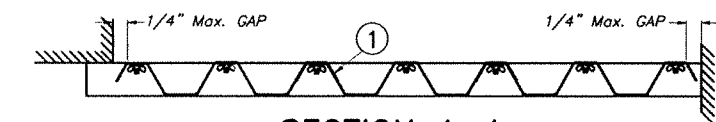
4 "U" HEADER
SCALE: 3/8" = 1"



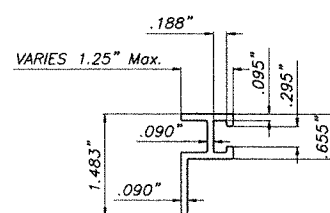
5 3" ANGLE BUILD OUT BRACKET
SCALE: 3/8" = 1"



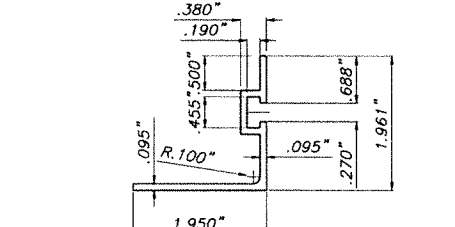
STORM PANEL TYPICAL ELEVATION
N. T. S.



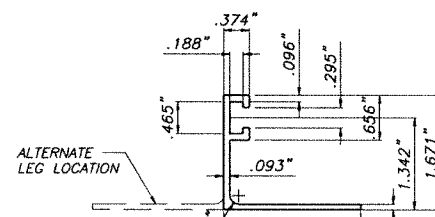
SECTION A-A
N. T. S.



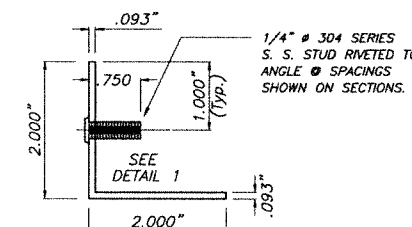
6 "F" TRACK
SCALE: 3/8" = 1"



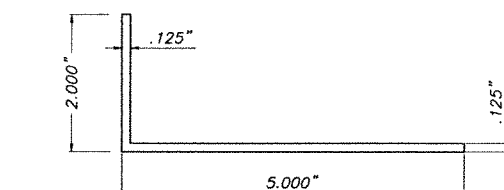
7 REVERSED "F" ANGLE TRACK
SCALE: 3/8" = 1"



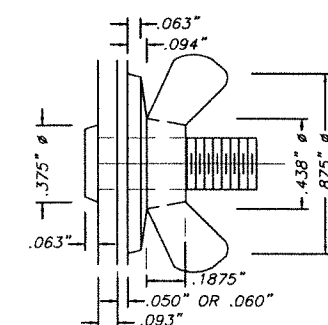
8 "F" TRACK ANGLE
SCALE: 3/8" = 1"



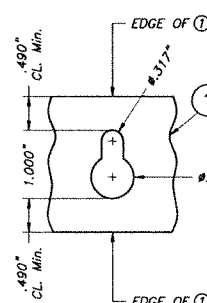
9 STUDDED ANGLE
SCALE: 3/8" = 1"



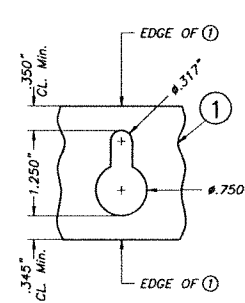
12 2" x 5" (Max.) x .125" ANGLE
SCALE: 3/8" = 1"



DETAIL 1: STUD W/ DIE CAST ZINC NICKEL PLATED WING NUT

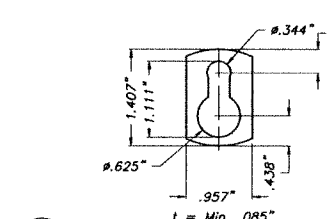


OPTION 1



OPTION 2

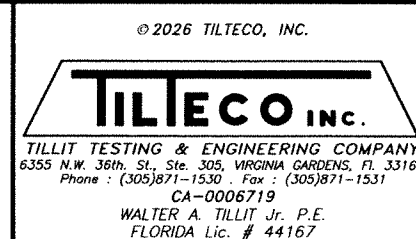
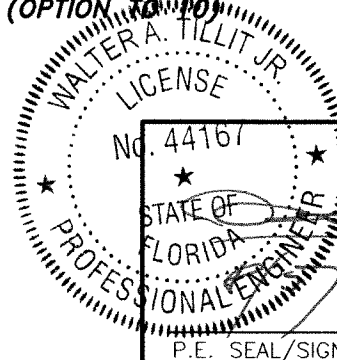
10A ROUND HOLE AT PANEL (OPTION 1)



11 KEY HOLE WASHER
3105-H154 Alum. ALLOY
SCALE: 3/8" = 1"

10 KEY HOLE AT PANEL

COMPONENTS



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)533-6061
FAX: (561)588-4780

W.H.
DRAWN BY:

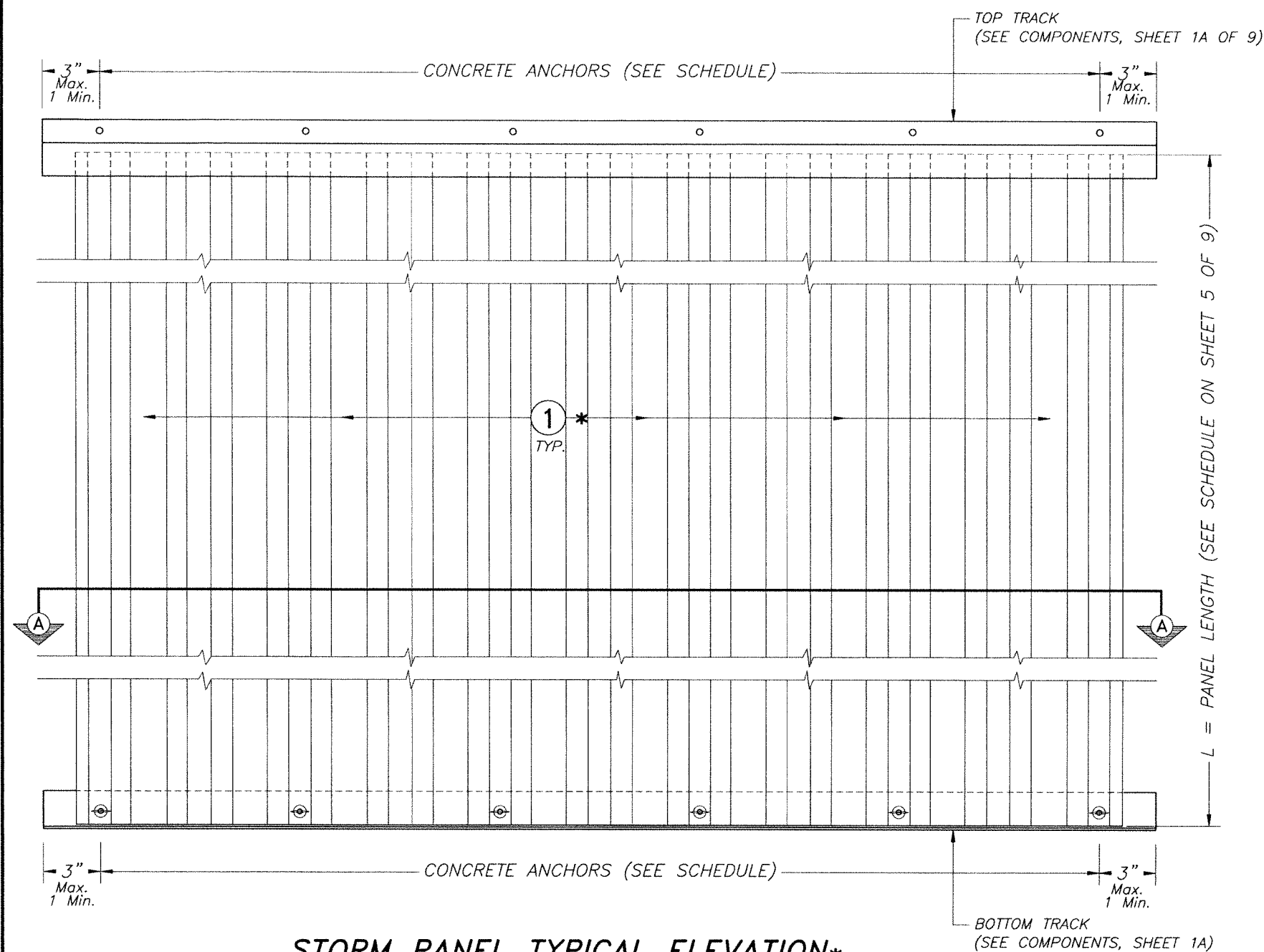
7/24/2026
DATE:

26-233

DRAWING No

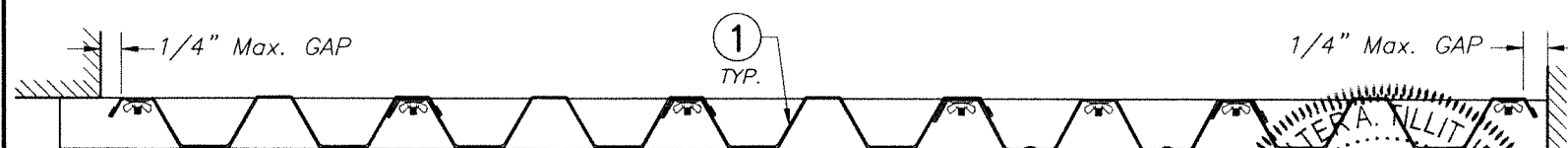
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		

SHEET 1A OF 9



STORM PANEL TYPICAL ELEVATION*

SCALE : 1/8" = 1"

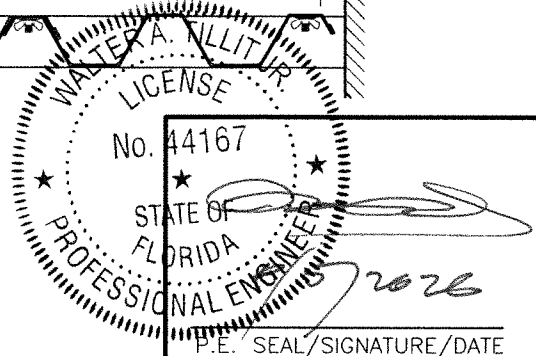


SECTION A-A

SCALE : 1/8" = 1"

* PANEL ① MAY BE COMBINED W/ APPROVED 2 1/4" CLEAR STORM PANELS THROUGH THE OPENING BEING PROTECTED WITH NO LIMITATION FOR THEIR PARTICULAR ORDER OR INSTALLATION SEQUENCE, AS LONG AS THE FOLLOWING CONDITIONS COMPLIED WITH:

1. MAXIMUM PANEL LENGTH SHALL BE DETERMINED AS PER SCHEDULES INDICATED ON SHEET #4 OF 5 TILTECO Inc. DRAWING #26-229 (CLEAR BERTHA STORM PANEL). THIS MAXIMUM PANEL LENGTH SHALL APPLY FOR THE CORRESPONDING A.S.D DESIGN WIND LOAD FOR THE GIVEN OPENING, WHICH SHALL BE DETERMINED AS PER SECTION 169 OF THE 2026 (9TH EDITION) OF THE FLORIDA BUILDING CODE.
2. INSTALLATION OF COMBINATION PANELS SHALL ONLY BE PERFORMED WITH THE APPROVED MOUNTINGS INDICATED ON SHEET #3 OF 5 OF DRAWING #26-229 (CLEAR BERTHA STORM PANEL). NO OTHER MOUNTING INSTALLATION WILL BE ALLOWED.
3. ANCHOR SPACING FOR FASTENERS USED FOR THE CONNECTION OF STORM PANELS MENTIONED ON ITEM #2 ABOVE SHALL BE AS PER SCHEDULE INDICATED ON SHEET #4 OF 5 OF DRAWING #26-229 (CLEAR BERTHA STORM PANEL)
4. END CLOSURE DETAILS SHALL BE AS INDICATED ON SHEET #4 OF 5 OF DRAWING #26-229 (CLEAR BERTHA STORM PANEL).



© 2026 TILTECO, INC.

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

CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)533-6061
FAX: (561)588-4780

W.H.
DRAWN BY:

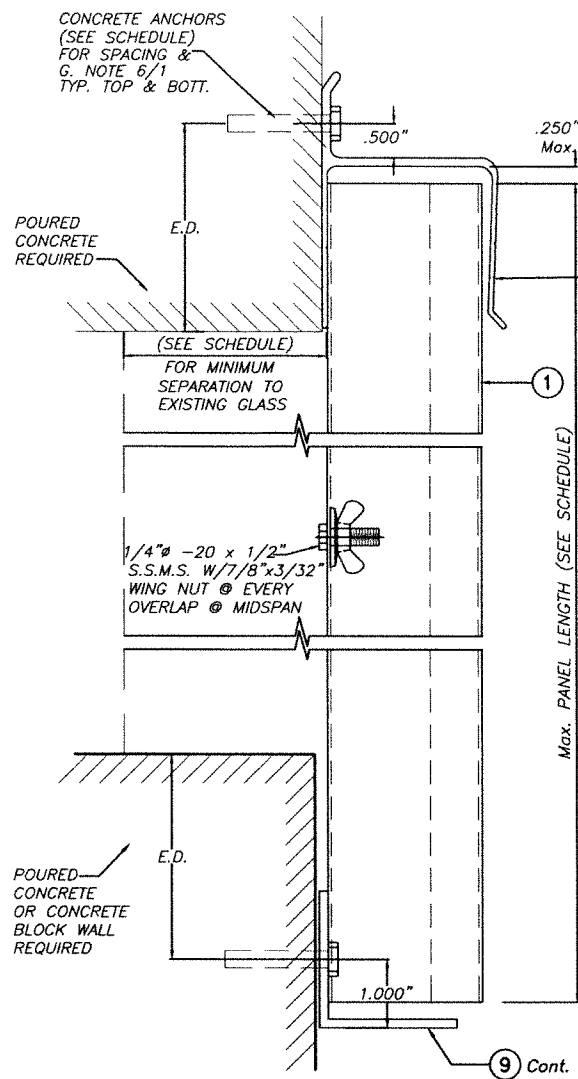
7/24/2026
DATE:

26-233

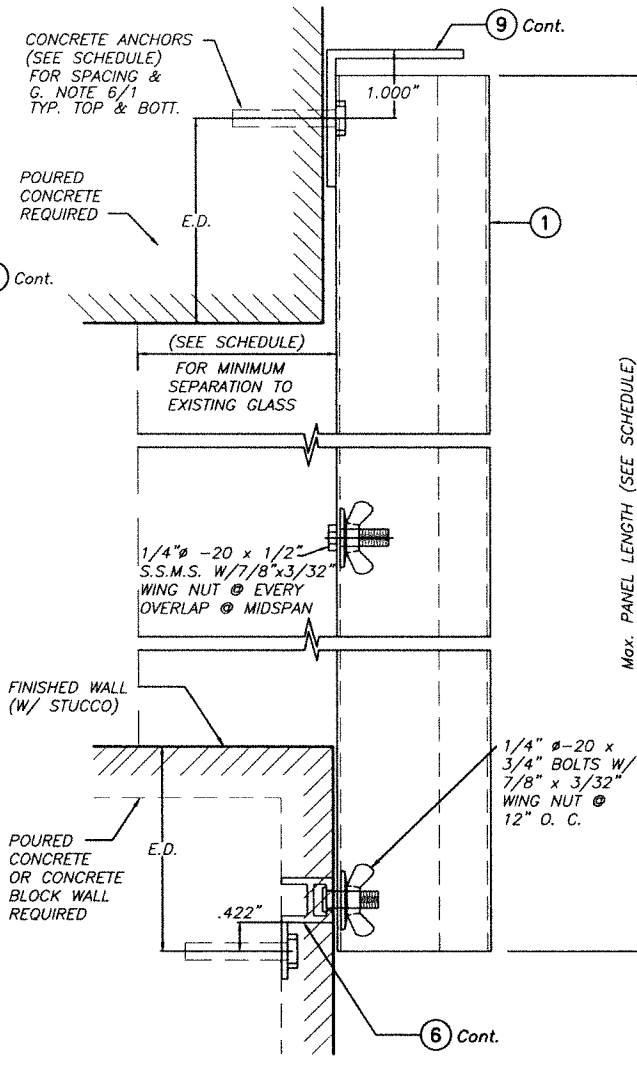
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		

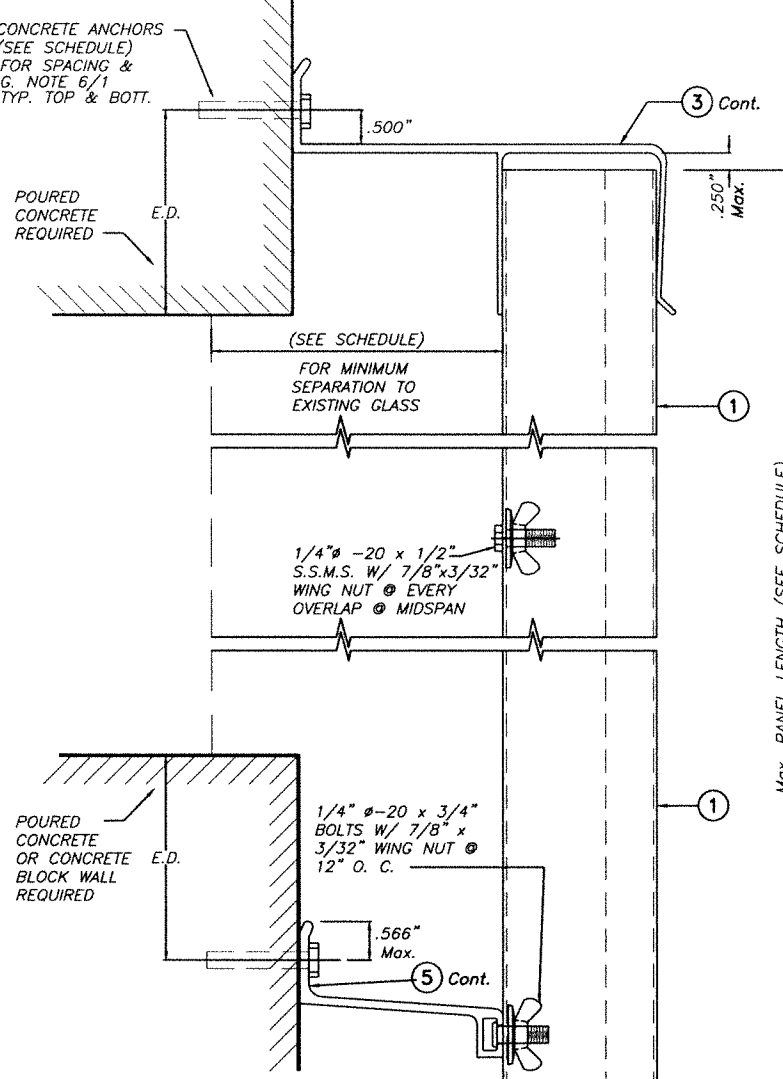
SHEET 1B OF 9



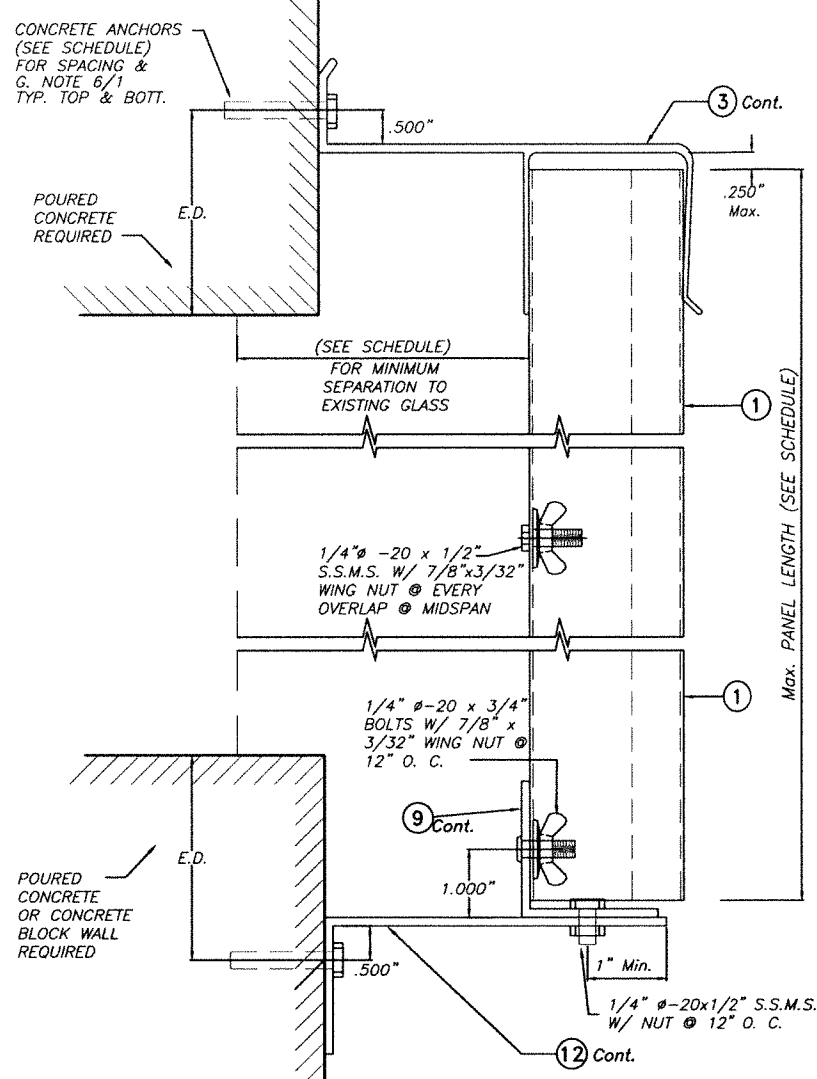
SECTION @ ANCHOR



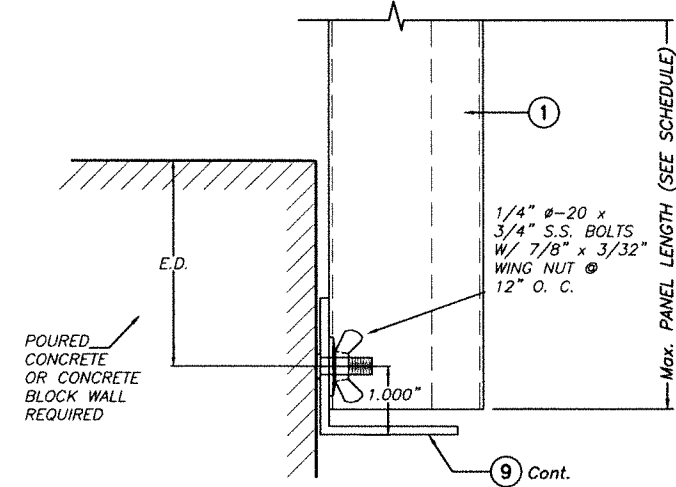
WALL MOUNTING INSTALLATION
SECTION 2 SCALE : 3/8" = 1"



BUILD OUT INSTALLATION
SECTION 3 SCALE : 3/8" = 1"



BUILD OUT INSTALLATION
SECTION 4 SCALE : 3/8" = 1"



SECTION @ STUD

WALL MOUNTING INSTALLATION
SECTION 1 SCALE : 3/8" = 1"

NOTE : DETAIL OF SECTION @ STUD VALID ALSO FOR WALL MOUNTING INSTALLATION - SECTION 2 (TOP)

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEET 5, 6 & 7 OF 9)

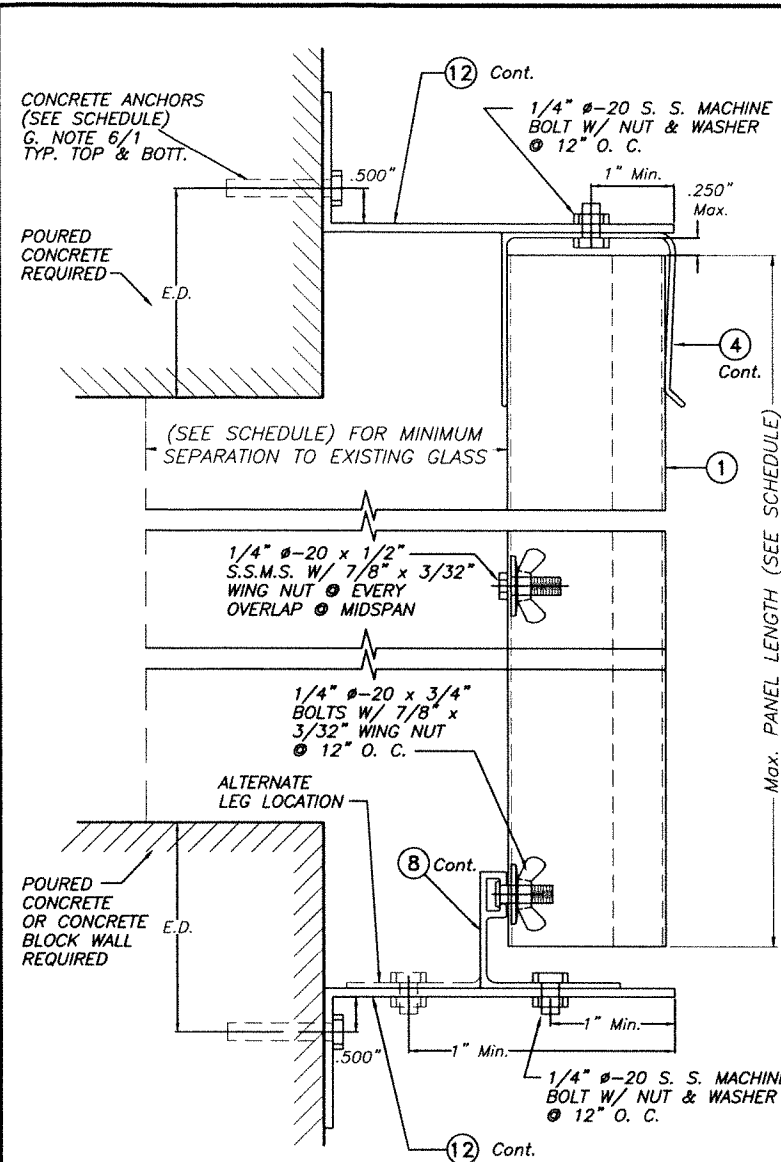
NOTE FOR COMBINATION OF SECTIONS :
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

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

© 2026 TILTECO, INC.
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
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

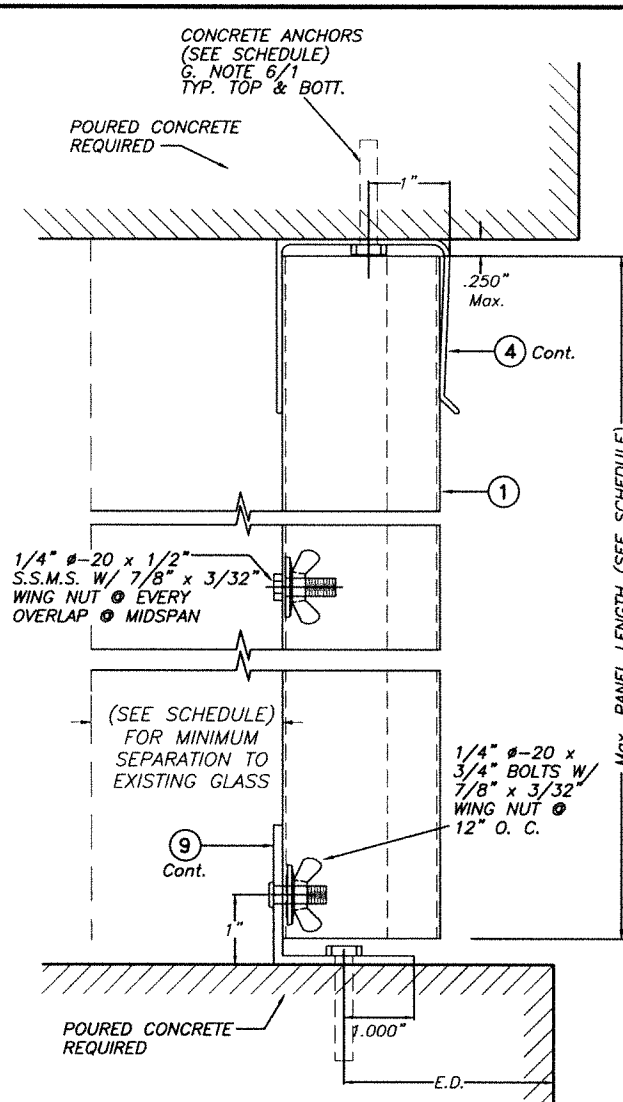
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)					
EASTERN METAL SUPPLY, INC				W.H. DRAWN BY:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)533-6061 FAX: (561)588-4780				7/24/2026 DATE:	
				26-233 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		
				SHEET 2 OF 9	



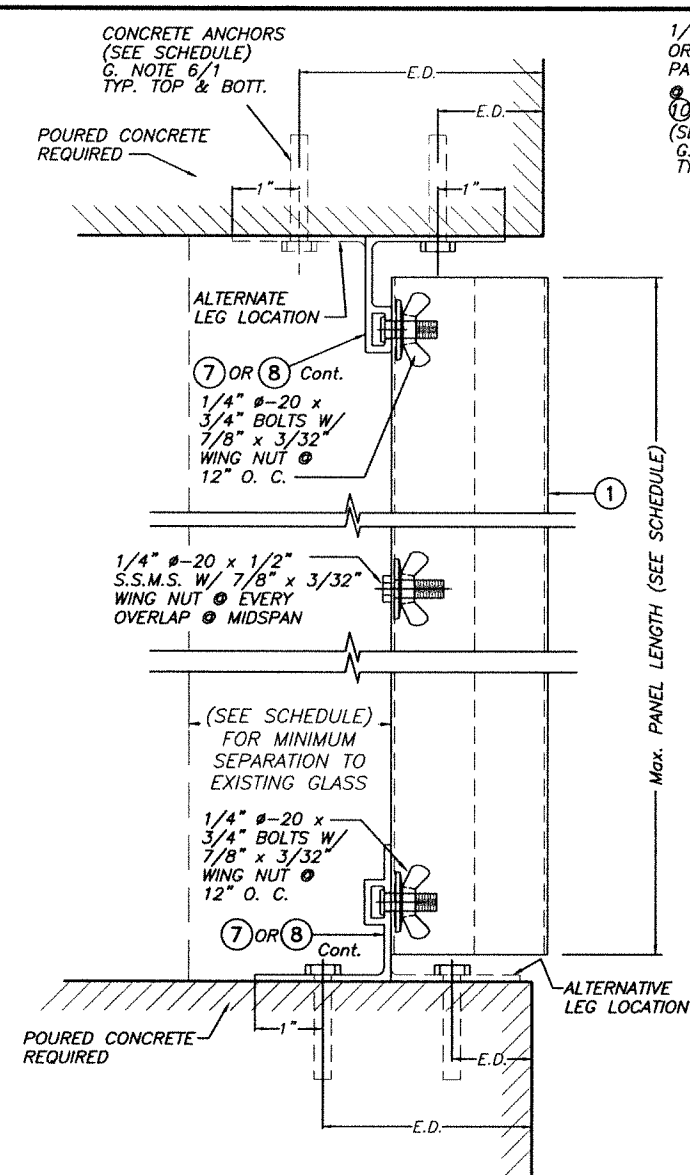
BUILD OUT INSTALLATION
- SECTION 5

SCALE : 3/8" = 1"



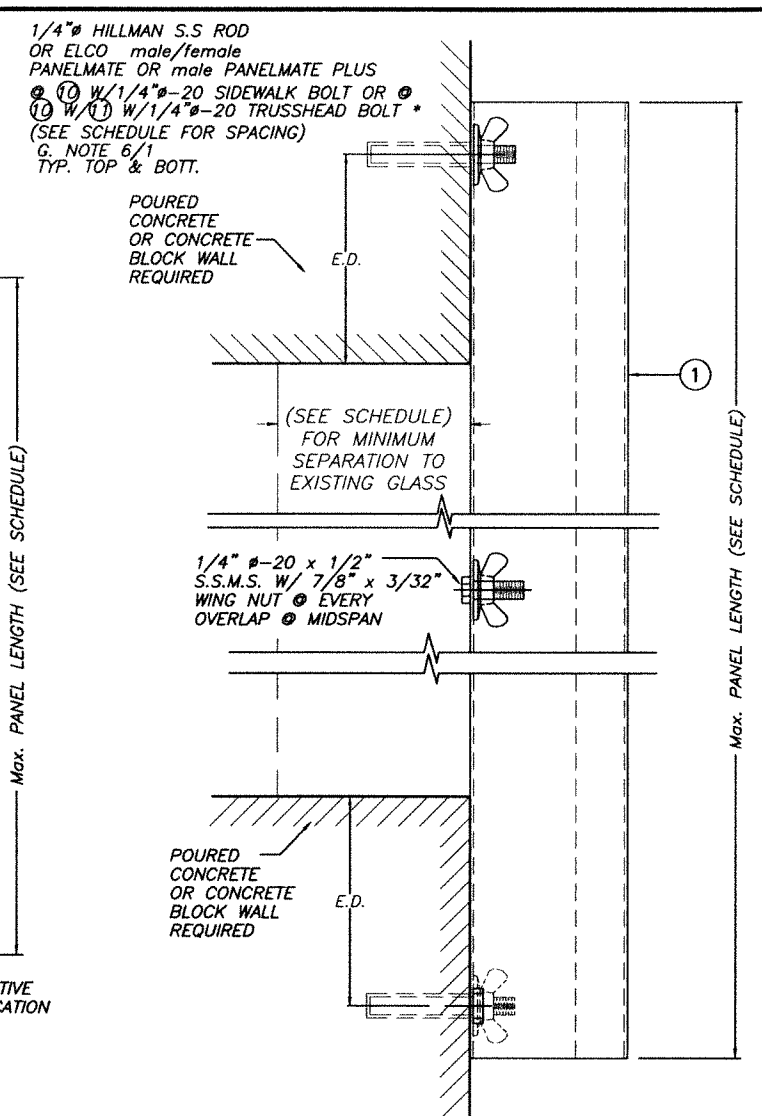
CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 6

SCALE : 3/8" = 1"



CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 7

SCALE : 3/8" = 1"



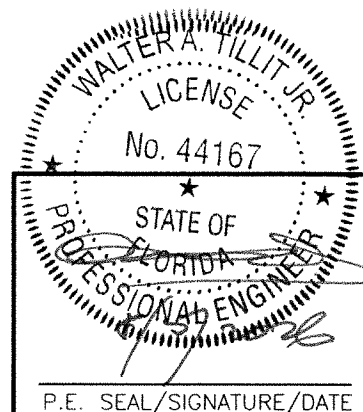
WALL MOUNTING INSTALLATION (D. M.)
- SECTION 8

SCALE : 3/8" = 1"

* SIDE WALK BOLTS ARE 3/4" x 3/32" THICK HEAD MACHINE SCREW W/LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)
 * TRUSS HEAD BOLTS ARE 1/2" x 1/8" THICK HEAD MACHINE SCREW W/LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)

E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON
 SHEET 5, 6 & 7 OF 9)

NOTE FOR COMBINATION OF SECTIONS :
 WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE
 COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



P.E. SEAL/SIGNATURE/DATE



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL
STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
 WEST PALM BEACH, FL 33407
 PHONE: (561)533-6061
 FAX: (561)588-4780

W.H.
 DRAWN BY:

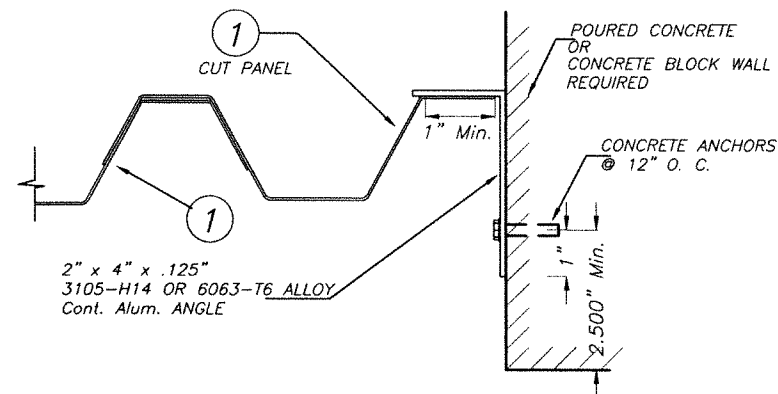
7/24/2026
 DATE:

26-233

DRAWING No

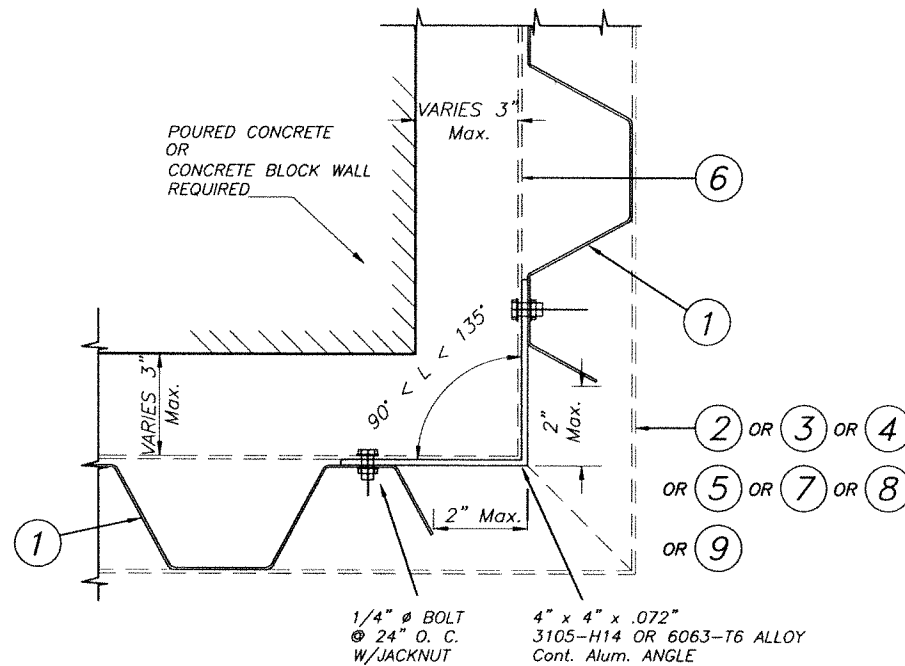
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		

SHEET 3 OF 9



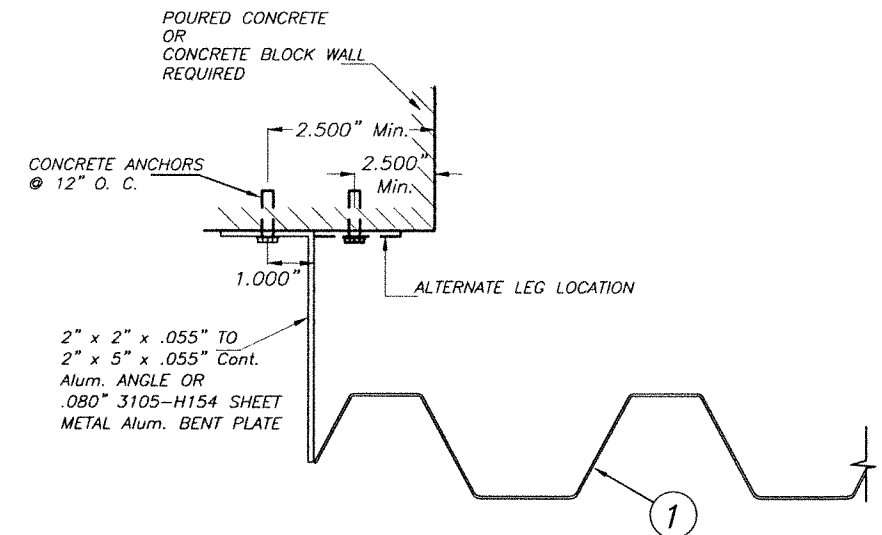
CASE A (Plan)

SCALE: 1/4" = 1"



CASE B (Plan)

SCALE: 1/4" = 1"

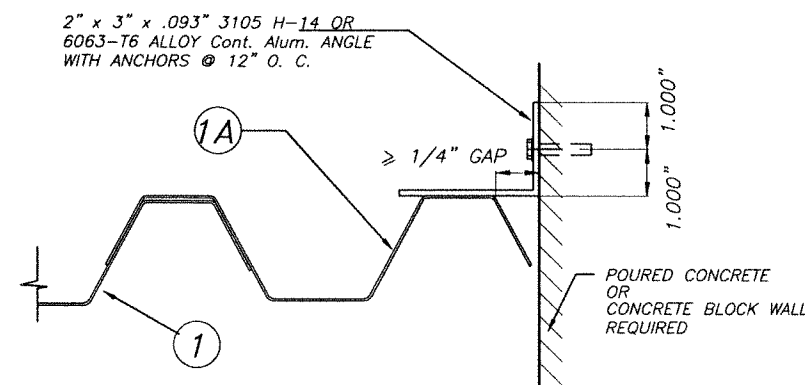


CASE C (Plan)

SCALE: 1/4" = 1"

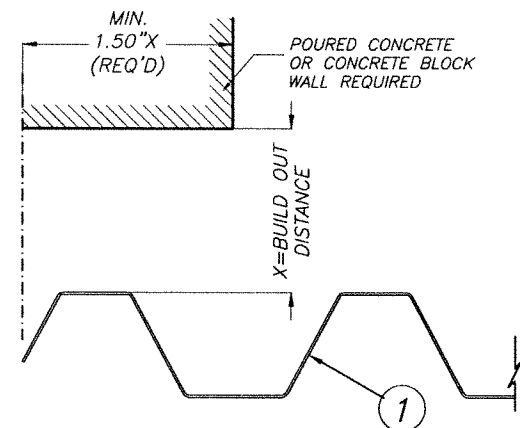
END CLOSURES DETAILS

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM PANEL LENGTH "L" SCHEDULE



CASE D (Plan)

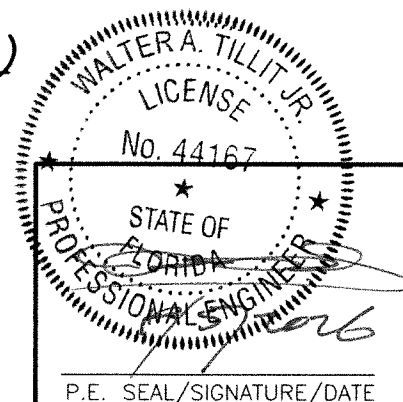
SCALE: 1/4" = 1"



CASE E (Plan)

SCALE: 1/4" = 1"

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (ft.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM
+66.0, -76.0	7'-6" OR LESS	3"	1,2,3,4,5 & 8
+60.0, -70.0	>7'-6" TO 8'-6"	3"	1,2,3,4,5 & 8
+66.0, -76.0	7'-6" OR LESS	3 3/4"	6 & 7
+60.0, -70.0	>7'-6" TO 8'-6"	3 3/4"	6 & 7



© 2026 TILTECO, INC.

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
CA-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)533-6061
FAX: (561)588-4780

W.H.
DRAWN BY:

7/24/2026
DATE:

26-233

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		

SHEET 4 OF 9

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE		MALE PANELMATE PLUS OR S.S. ROD			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+60.0, -61.5	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	6'-0" OR LESS
	12"	7"	N/A	12"	12"	12"	12"	12"	12"	11"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	7"	N/A	12"	12"	12"	12"	12"	12"	11"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	7"	N/A	12"	12"	12"	12"	12"	12"	11"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	7"	N/A	12"	12"	12"	12"	12"	12"	11"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	12"	7"	N/A	12"	12"	12"	12"	12"	12"	10"	5 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	12"	12"	12"	8 (TOP/BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE		MALE PANELMATE PLUS OR S.S. ROD			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+66.0, -72.0	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	6'-0" OR LESS
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	10"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	10"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	10"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	10"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	12"	4"	N/A	12"	12"	9"	12"	8"	12"	7"	5 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (BOTTOM)	
	10"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	11"	12"	6"	8 (TOP/BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # * ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE		MALE PANELMATE PLUS OR S.S. ROD			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+60.0, -61.5	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	>6'-0" TO 7'-6"
	12"	6"	N/A	12"	12"	12"	12"	10"	12"	8"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	10"	12"	9"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	10"	12"	9"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	10"	12"	9"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	12"	4"	N/A	11"	12"	8"	12"	7"	12"	6"	5 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	11"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (BOTTOM)	
	9"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	7 (TOP/BOTTOM)	
N/A	N/A	N/A	N/A	N/A	N/A	12"	10"	12"	6"	8 (TOP/BOTTOM)		

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

** MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE.
FOR E. D. LESS THAN 3 1/2", 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 AT ANCHORS LEGEND.

ACTUAL E. D.	FACTOR	
	S.S RODS/TAPCONS/ ULTRACONS/ CRETE-FLEX SS4/ PANELMATES	RED HD. SLEEVE
3"	—	1.00
2 1/2"	—	1.00
2"	—	0.88
1 1/2"	.35	—

ANCHORS LEGEND

ANCHORS TYPE	ANCHOR MIN. SPACING
ULTRACONS, TAPCONS, PANELMATES, S.S ROD	4.0"
3/8"Ø RED HD. DYNABOLT SLEEVE	4.5"
CRETE FLEX SS4	6.0"

E. D. = EDGE DISTANCE

*SEE NOTES ON SHEET 8 & 9 OF 9
FOR ANCHOR TYPES & SPACING FOR
INSTALLATIONS INTO WOOD FRAME BUILDINGS.

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

© 2026 TILTECO, INC.
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
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

**0.030" THICK GALVANIZED BERTHA STEEL
STORM PANEL (2.25" DEEP)**

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)533-6061
FAX: (561)588-4780

W.H.
DRAWN BY:

7/24/2026
DATE:

26-233

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		

SHEET 5 OF 9

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE		MALE PANELMATE PLUS OR S.S. RODS			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+66.0, -72.0	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	>6'-0" TO 7'-6"
	12"	5"	N/A	12"	12"	10"	12"	9"	12"	8"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	5"	N/A	12"	12"	10"	12"	9"	12"	8"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	5"	N/A	12"	12"	10"	12"	9"	12"	8"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	5"	N/A	12"	12"	10"	12"	9"	12"	8"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	11"	N/A	N/A	8"	12"	6"	12"	5"	12"	4"	5 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	9"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (BOTTOM)	
	8"	N/A	N/A	N/A	11"	N/A	12"	N/A	10"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	6"	9"	12"	6"	8 (TOP/BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	L.T.W. BUILDDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE		MALE PANELMATE PLUS OR S.S. RODS			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+60.0, -61.5	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	>7'-6" TO 8'-6"
	12"	5"	N/A	12"	12"	11"	12"	9"	12"	8"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	5"	N/A	12"	12"	11"	12"	9"	12"	8"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	5"	N/A	12"	12"	11"	12"	9"	12"	8"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	5"	N/A	12"	12"	11"	12"	9"	12"	8"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	12"	N/A	N/A	9"	12"	6"	12"	5"	12"	4"	5 (BOTTOM)	
	9"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (BOTTOM)	
	8"	N/A	N/A	N/A	11"	N/A	12"	N/A	11"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	9"	12"	6"	8 (TOP/BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE		MALE PANELMATE PLUS OR S.S. RODS			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+66.0, -72.0	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	>7'-6" TO 8'-6"
	12"	4"	N/A	12"	12"	9"	12"	8"	12"	7"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	4"	N/A	12"	12"	9"	12"	8"	12"	7"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	4"	N/A	12"	12"	9"	12"	8"	12"	7"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	4"	N/A	12"	12"	9	12"	8"	12"	7"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	9"	N/A	N/A	7"	12"	5"	12"	4"	12"	3"	5 (BOTTOM)	
	11"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	8"	N/A	N/A	N/A	12"	N/A	11"	N/A	11"	N/A	6 (BOTTOM)	
	7"	N/A	N/A	N/A	9"	N/A	10"	N/A	9"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	8"	12"	6"	8 (TOP/BOTTOM)	

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

** MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE.
FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY
MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING
FACTORS. FOR THIS OPERATION TO BE POSIBLE, REDUCED SPACING
OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM
SPACING INDICATED FOR EACH ANCHOR TYPE AT ANCHORS LEGEND.

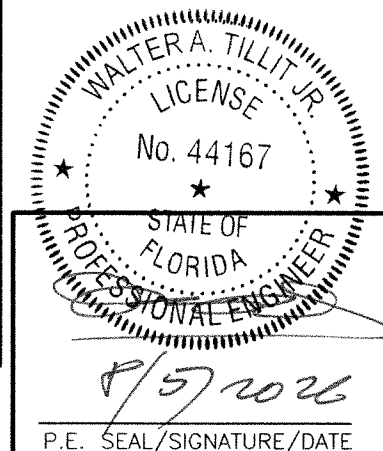
ACTUAL E. D.	FACTOR	
	S.S ROD/TAPCON/ULTRACON CRETE-FLEX SS4/ PANELMATES	RED HD. SLEEVE
3"	—	1.00
2 1/2"	—	1.00
2"	—	0.88
1 1/2"	.35	—

ANCHORS LEGEND

ANCHORS TYPE	ANCHOR MIN. SPACING
ULTRACONS, TAPCON, PANELMATES, S.S ROD	4.0"
3/8"Ø RED HD. DYNABOLT SLEEVE	4.5"
CRETE FLEX SS4	6.0"

E. D. = EDGE DISTANCE

*SEE NOTES ON SHEET 8 & 9 OF 9
FOR ANCHOR TYPES & SPACING FOR
INSTALLATIONS INTO WOOD FRAME BUILDINGS.



© 2026 TILTECO, INC.

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
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

**0.030" THICK GALVANIZED BERTHA STEEL
STORM PANEL (2.25" DEEP)**

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)533-6061
FAX: (561)588-4780

W.H.
DRAWN BY:

7/24/2026
DATE:

26-233

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		

SHEET 6 OF 9

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE OR S.S. RODS		MALE PANELMATE PLUS			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+66.0, -76.0	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	6'-0" OR LESS
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	9"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	9"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	9"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	6"	N/A	12"	12"	12"	12"	11"	12"	9"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	12"	4"	N/A	12"	12"	8"	12"	7"	12"	6"	5 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	11"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (BOTTOM)	
	9"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	11"	12"	6"	8 (TOP/BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE OR S.S. RODS		MALE PANELMATE PLUS			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+66.0, -76.0	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	>6'-0" TO 7'-6"
	12"	4"	N/A	12"	12"	10"	12"	8"	12"	7 1/2"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	5"	N/A	12"	12"	10	12"	8"	12"	7 1/2"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	4"	N/A	12"	12"	10"	12"	8"	12"	7 1/2"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	4"	N/A	12"	12"	10	12"	8"	12"	7 1/2"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	10 1/2"	N/A	N/A	7 1/2"	12"	5"	12"	4"	12"	4"	5 (BOTTOM)	
	11 1/2"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	9"	N/A	N/A	N/A	12"	N/A	12"	N/A	11 1/2"	N/A	6 (BOTTOM)	
	7 1/2"	N/A	N/A	N/A	10 1/2"	N/A	11 1/2"	N/A	10"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	8"	12"	6"	8 (TOP/BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **										APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	I.T.W. BUILDEX				ELCO CONSTRUCTION PRODUCTS							
	TAPCONS/ULTRACONS		RED HD SLEEVE		CRETE-FLEX SS4		MALE/FEMALE PANELMATE OR S.S. RODS		MALE PANELMATE PLUS			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+66.0, -70.0	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	>7'-6" TO 8'-6"
	12"	4"	N/A	12"	12"	9"	12"	7"	12"	6"	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	12"	4"	N/A	12"	12"	9"	12"	7"	12"	6"	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	3 (TOP)	
	12"	4"	N/A	12"	12"	9"	12"	7"	12"	6"	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	4 (TOP)	
	12"	4"	N/A	12"	12"	N/A	12"	7"	12"	6"	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	5 (TOP)	
	8"	N/A	N/A	6"	12"	N/A	11"	N/A	11"	3"	5 (BOTTOM)	
	10"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	6 (TOP)	
	8"	N/A	N/A	N/A	12"	N/A	10"	N/A	10"	N/A	6 (BOTTOM)	
	7"	N/A	N/A	N/A	9"	N/A	10"	N/A	9"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	7"	12"	6"	8 (TOP/BOTTOM)	

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

** MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE.
FOR E. D. LESS THAN 3 1/2", 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 AT ANCHORS LEGEND.

ACTUAL E. D.	FACTOR			
	TAPCON/ CRETE-FLEX SS4/ PANELMATES	CALK-IN	SOLID-SET	RED HD. SLEEVE
3"	—	.75	.78	1.00
2 1/2"	—	.50	—	1.00
2"	—	—	—	0.88
1 1/2"	.35	—	—	—

ANCHORS LEGEND

ANCHORS TYPE	ANCHOR MIN. SPACING
ULTRACONS, TAPCON, PANELMATES, S.S. ROD	4.0"
3/8"Ø RED HD. DYNABOLT SLEEVE	4.5"
CRETE FLEX SS4	6.0"

E. D. = EDGE DISTANCE

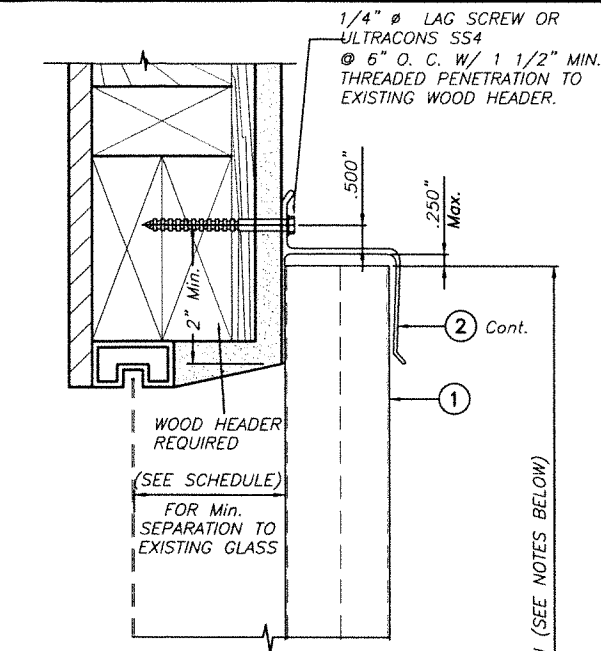
*SEE NOTES ON SHEET 8 & 9 OF 9
FOR ANCHOR TYPES & SPACING FOR
INSTALLATIONS INTO WOOD FRAME BUILDINGS.

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

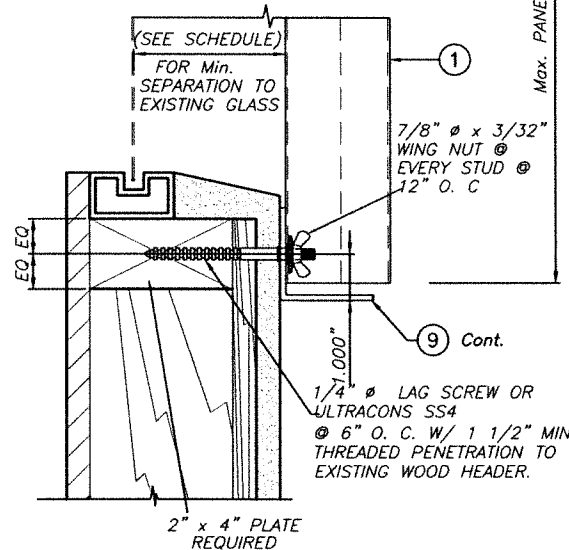
© 2026 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

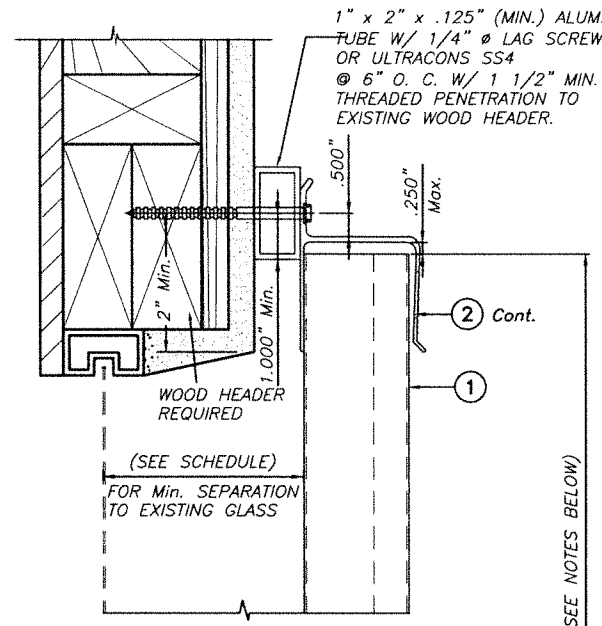
0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)			W.H. DRAWN BY:		
EASTERN METAL SUPPLY, INC			7/24/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)533-6061 FAX: (561)588-4780			26-233 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		
			SHEET 7 OF 9		



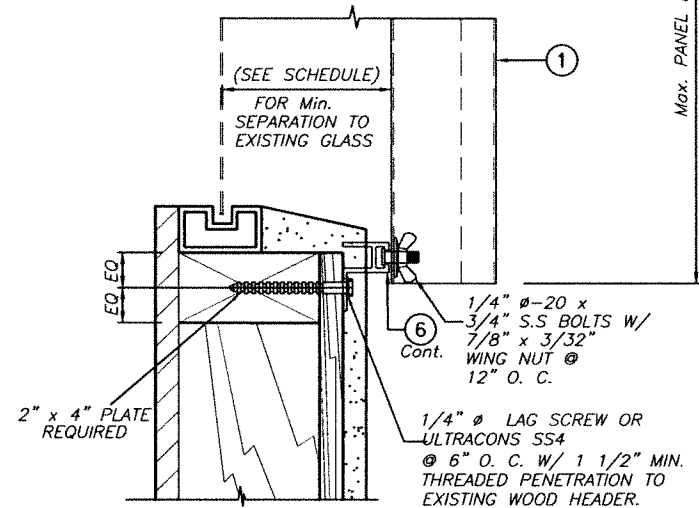
ALTERNATIVE 1



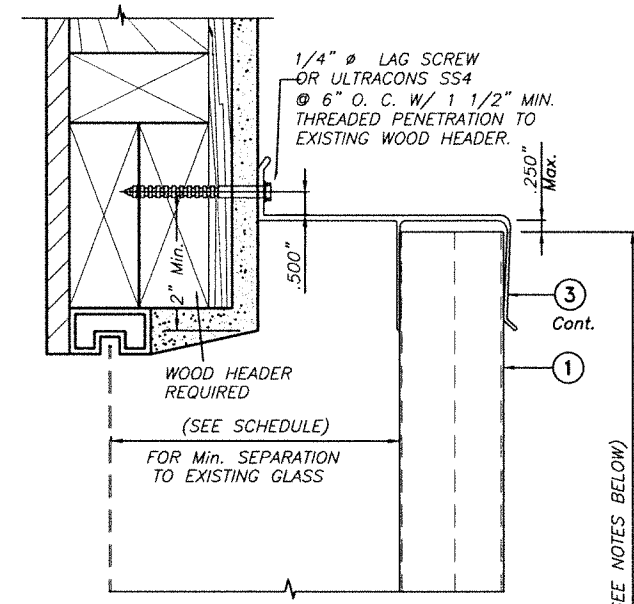
ALTERNATIVE 2



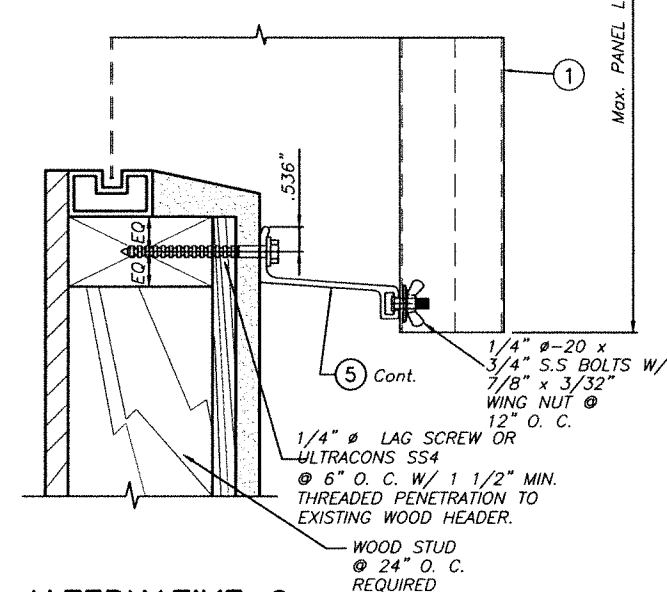
ALTERNATIVE 3



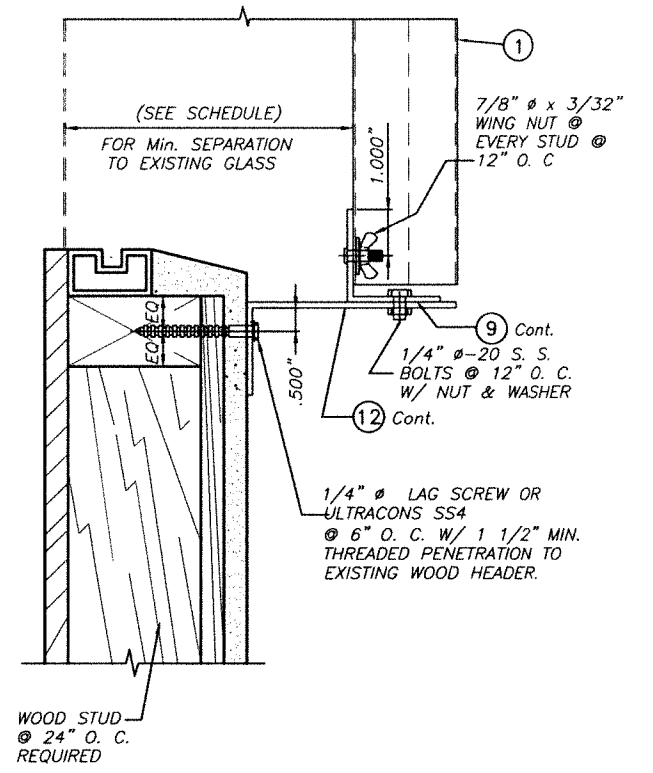
ALTERNATIVE 4



ALTERNATIVE 5



ALTERNATIVE 6



ALTERNATIVE 7

WALL MOUNTING INSTALLATIONS

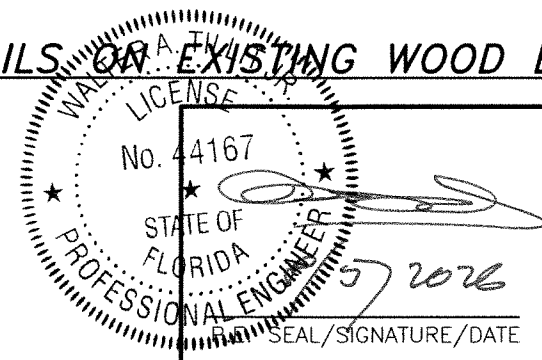
SECTIONS A

SCALE : 1/4" = 1"

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTE FOR COMBINATION OF SECTIONS:
WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

- NOTES:**
1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING AND MAX. PANEL LENGTHS AS PER SCHEDULE ON SHEET 4 OF 9
 2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
 3. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATION WITHIN 300FT OF THE COASTAL SHORELINE.



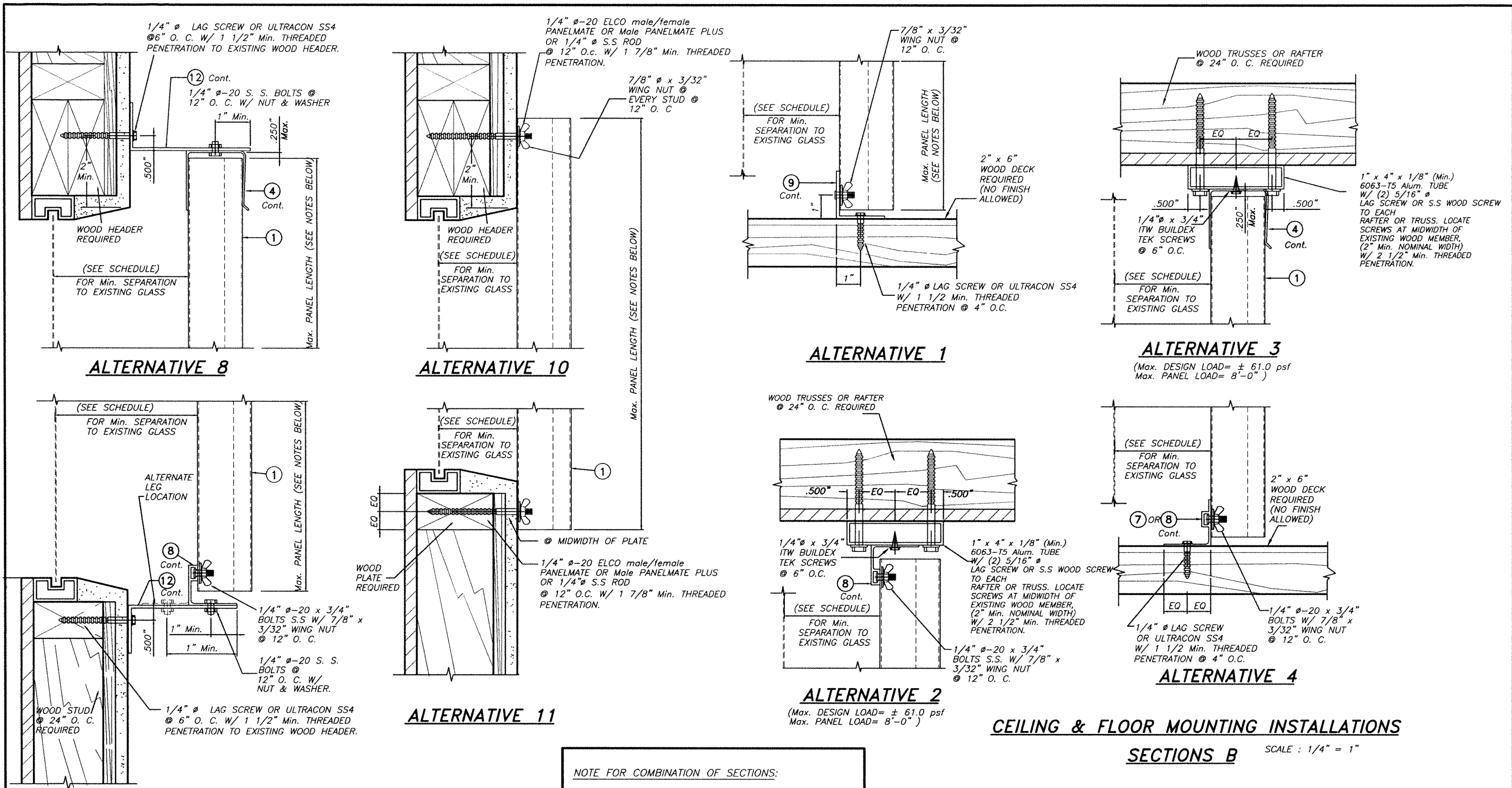
© 2026 TILTECO, INC.

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
CA-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)			W.H. DRAWN BY:		
EASTERN METAL SUPPLY, INC			7/24/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)533-6061 FAX: (561)588-4780			26-233 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-143	7/24/26	3		
2			4		



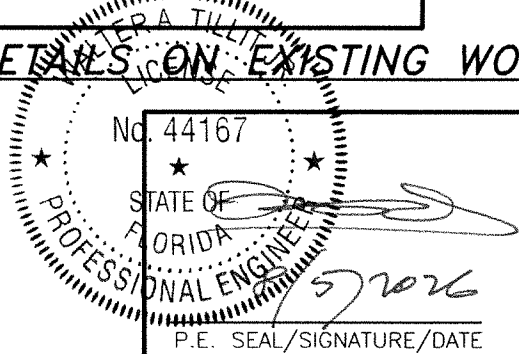
ALTERNATIVE 9

SECTIONS A

SCALE: 1/4" = 1"

- NOTES:**
1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING AND MAX. PANEL LENGTHS AS PER SCHEDULE ON SHEET 4 OF 9, EXCEPT THAT FOR ALTERNATIVES 2 AND 3 A Max. PANEL LENGTH OF 8'-0" AND A Max. DESIGN LOAD OF ± 61.0 PSF SHALL BE USED.
 2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
 3. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATION WITHIN 300ft OF THE COASTAL SHORELINE.

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



© 2026 TILTECO, INC.

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
 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.030" THICK GALVANIZED BERTHA STEEL STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC
 4268 WEST ROADS DRIVE
 WEST PALM BEACH, FL 33407
 PHONE: (561)533-6061
 FAX: (561)588-4780

W.H. DRAWN BY:
 7/24/2026 DATE:
26-233
 DRAWING No
 SHEET 9 OF 9

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 25-143	7/24/26	3		
2			4		