

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 9 THRU 15.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 9 THRU 15.

N ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE 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, PER ANSI/AWC NDS- 2024.

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 # 1022.01-96 # 0221.01-01 AND # 0616.02-05, PER PROTOCOLSTAS-201, TAS-202 AND TAS-203

2. ALL ALUMINUM SHEET METAL PANELS SHALL HAVE 5052-H32 OR 3004-H34 ALLOY.
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 2020 ALUMINUM DESIGN MANUAL.
4. 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 & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.
5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL, WITH 35 ksi MINIMUM YIELD STRENGTH.
6. ANCHORS TO WALL SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):
- (A) TO EXISTING POURED CONCRETE:
- 1/4" $\varnothing$ 410 S.S TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX OR 1/4" $\varnothing$ ULTRACON + OR ULTRACON SS4 BY DEWALT.
 - 1/4" $\varnothing$ CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY DEWALT.
 - 1/4" $\varnothing$ CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" $\varnothing$ ELCO male & female "PANELMATE" AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" $\varnothing$ ALL THREADED 304 S.S ROD ANCHORS, BY HILLMAN GROUP.

NOTES:

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

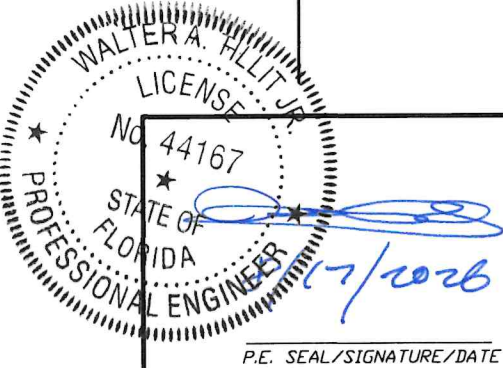
A.2) FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" $\varnothing$ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

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:
- 1/4" $\varnothing$ 410 SS TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX OR 1/4" $\varnothing$ ULTRACON+ OR ULTRACON SS4 BY DEWALT.
 - 1/4" $\varnothing$ CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" $\varnothing$ CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" $\varnothing$ LCO male & female "PANELMATE" AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" $\varnothing$ ALL THREADED 304 S.S ROD ANCHORS, BY HILLMAN GROUP.

- NOTES:
- B.1) MINIMUM EMBEDMENT OF 1/4" $\varnothing$ ANCHORS INTO 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) AND 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 INSTALLATION WITHIN 300ft OF THE COASTAL SHORELINE.
7. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 1 THRU 16 (SHEET 3 & 7 OF 15) 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 INSURE 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 PERMIT A 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 SHALL 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



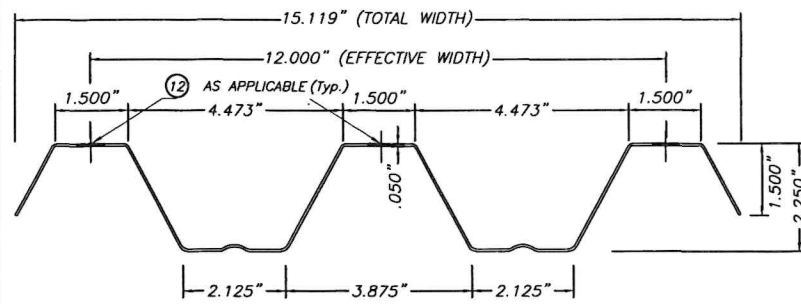
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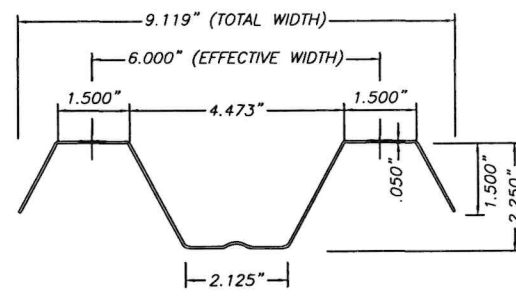
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

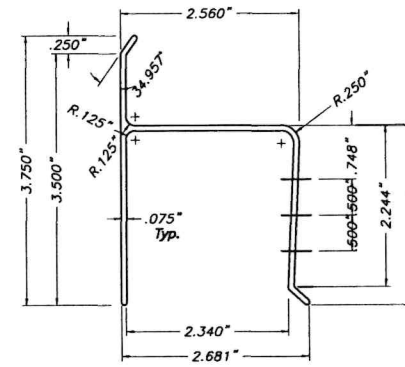
0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)			W.H. DRAWN BY:		
EASTERN METAL SUPPLY, INC			7/24/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)533-6061 FAX: (561)588-4780			26-232 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		
			SHEET 1 OF 15		



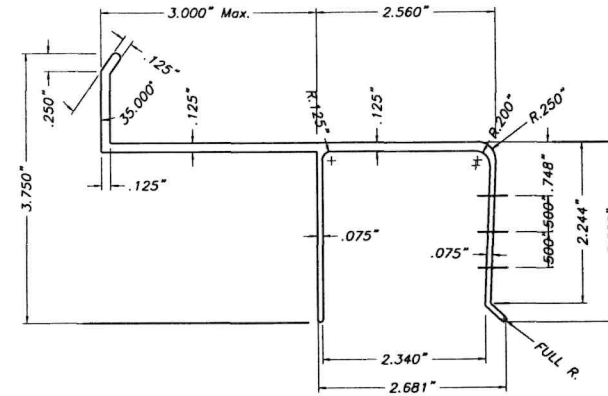
1 ALUMINUM PANEL
SCALE: 1/4" = 1"



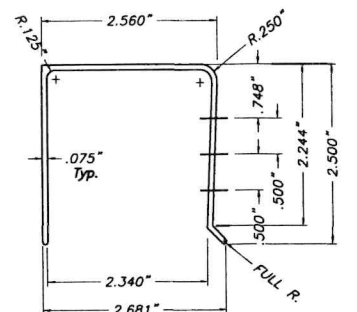
1A ALUMINUM HALF PANEL
SCALE: 1/4" = 1"



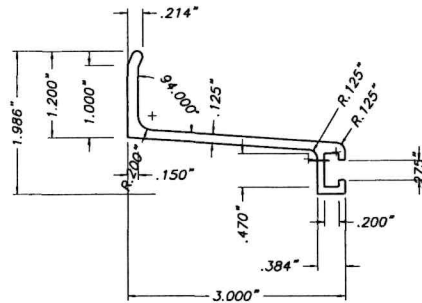
2 "h" HEADER
SCALE: 3/8" = 1"



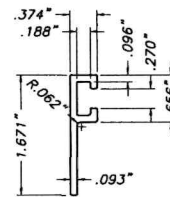
3 3" Max. "U" BUILD OUT
SCALE: 3/8" = 1"



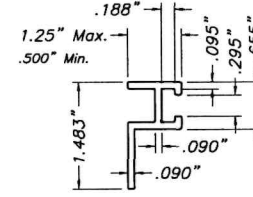
4 "U" HEADER
SCALE: 3/8" = 1"



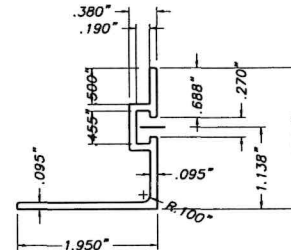
5 3" ANGLE BUILD OUT BRACKET
SCALE: 3/8" = 1"



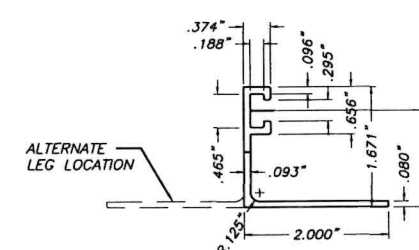
6 "F" TRACK
SCALE: 3/8" = 1"



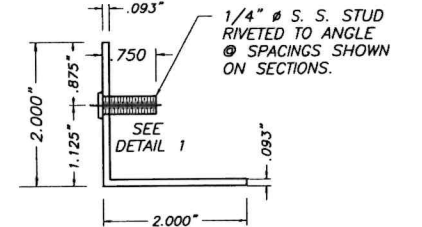
6A 1 1/4" MAX. B. O. "F" TRACK
SCALE: 3/8" = 1"



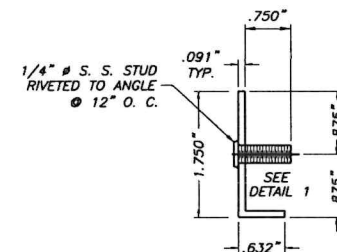
7 REVERSED "F" ANGLE TRACK
SCALE: 3/8" = 1"



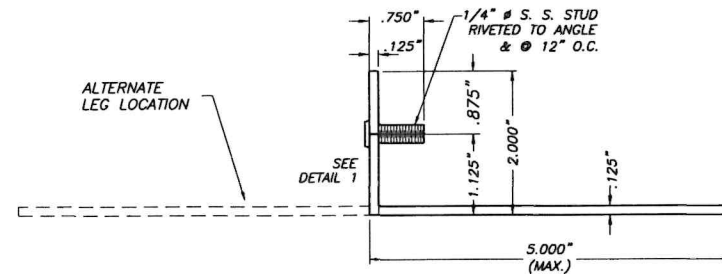
8 "F" TRACK ANGLE
SCALE: 3/8" = 1"



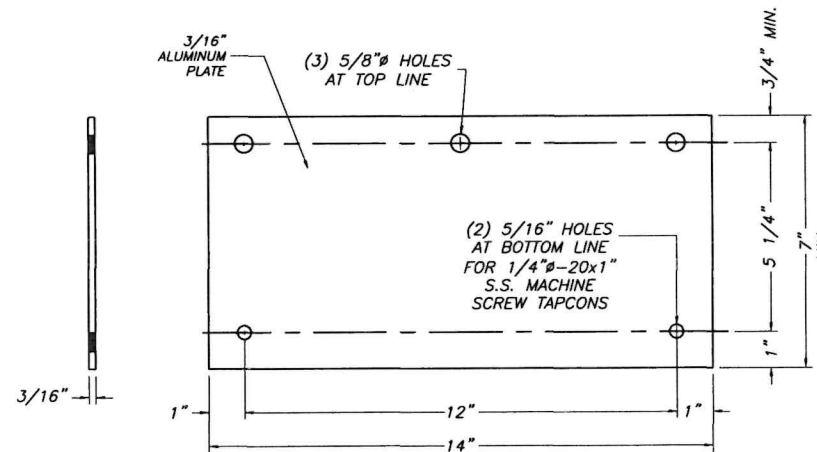
9 STUDDED ANGLE
6063-T5 Alum. ALLOY
SCALE: 3/8" = 1"



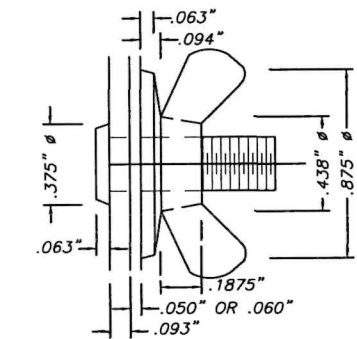
9A MINI WALL 1.75"x0.632" ANGLE WITH STUD
SCALE: 1/2" = 1"



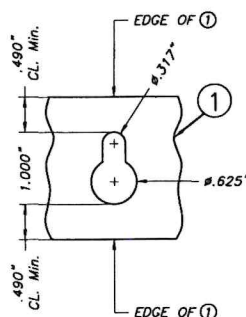
10 2"x5"(MAX.)x1/8" ANGLE WITH STUD
SCALE: 3/8" = 1"



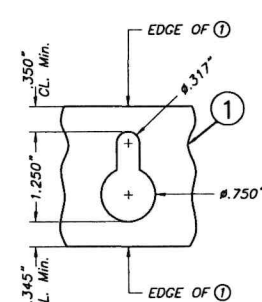
11 3/16"x7"x14" LONG WALL PLATE
SCALE: 3/16" = 1"



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

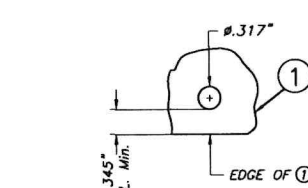


OPTION 1

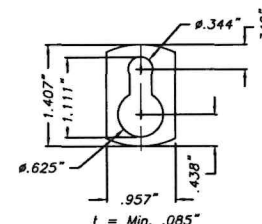


OPTION 2

12 KEY HOLE AT PANEL

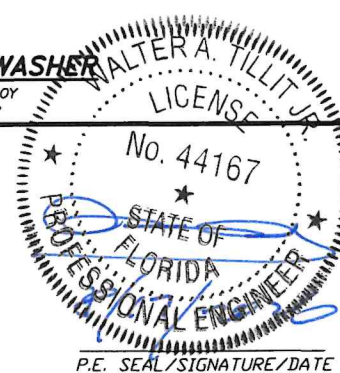


12A ROUND HOLE AT PANEL (OPTION TO 12)



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

COMPONENTS



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TILTECO inc.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33161
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)

0.050" BERTHA ALUMINUM 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:

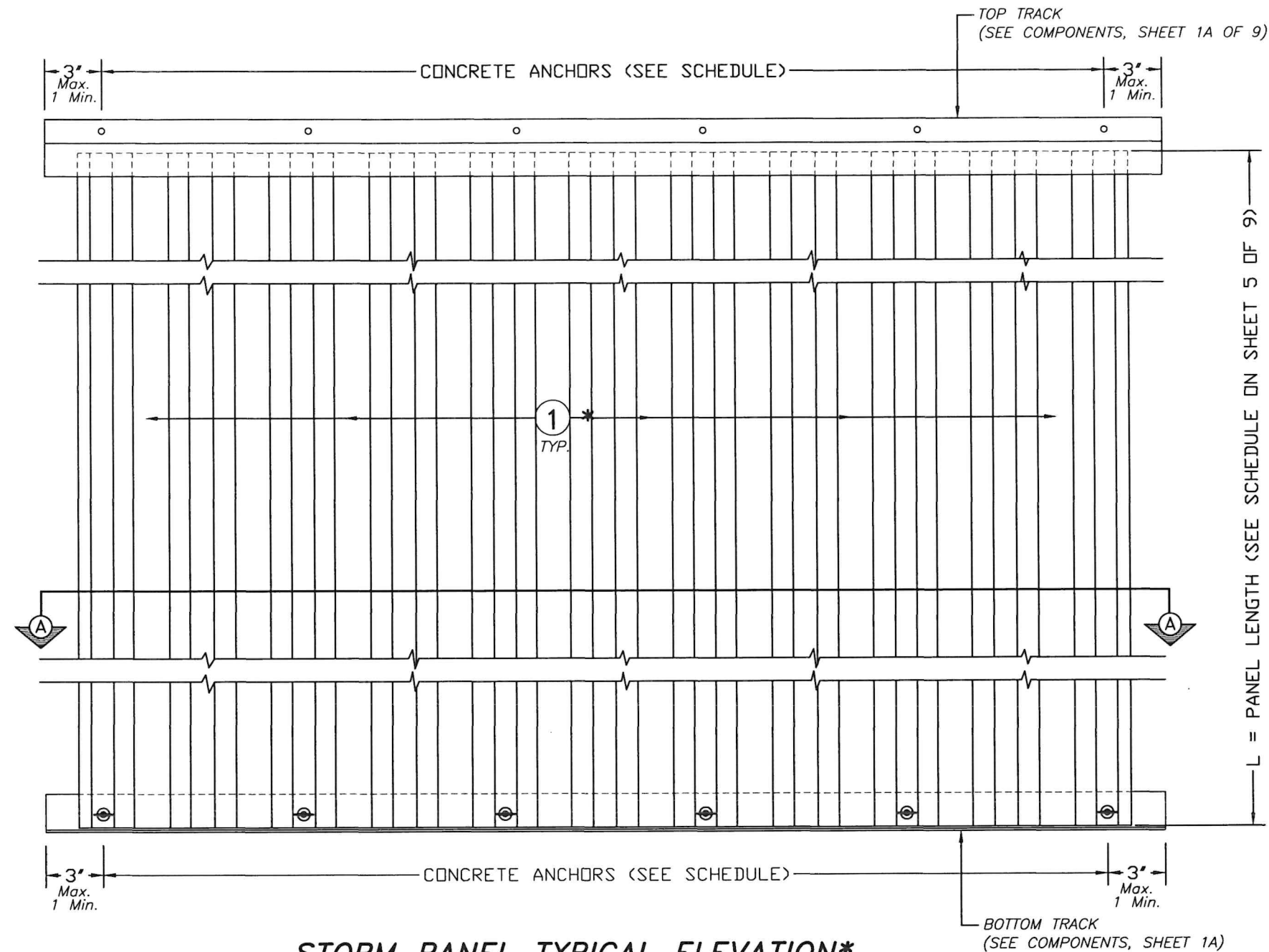
7/24/2026
DATE:

26-232

DRAWING No

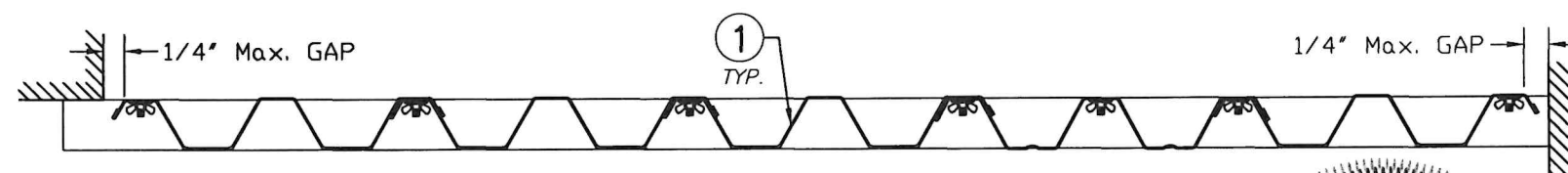
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 1A OF 15



STORM PANEL TYPICAL ELEVATION*

SCALE : 1/8" = 1"

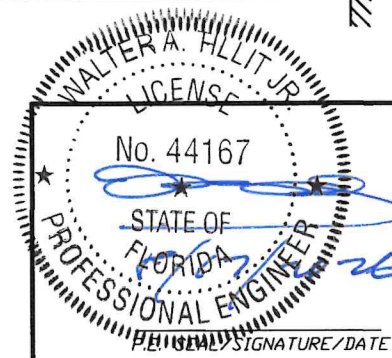


SECTION A-A

SCALE : N.T.S

* PANEL 1 MAY BE COMBINED WITH 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 1609 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).



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FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM 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:

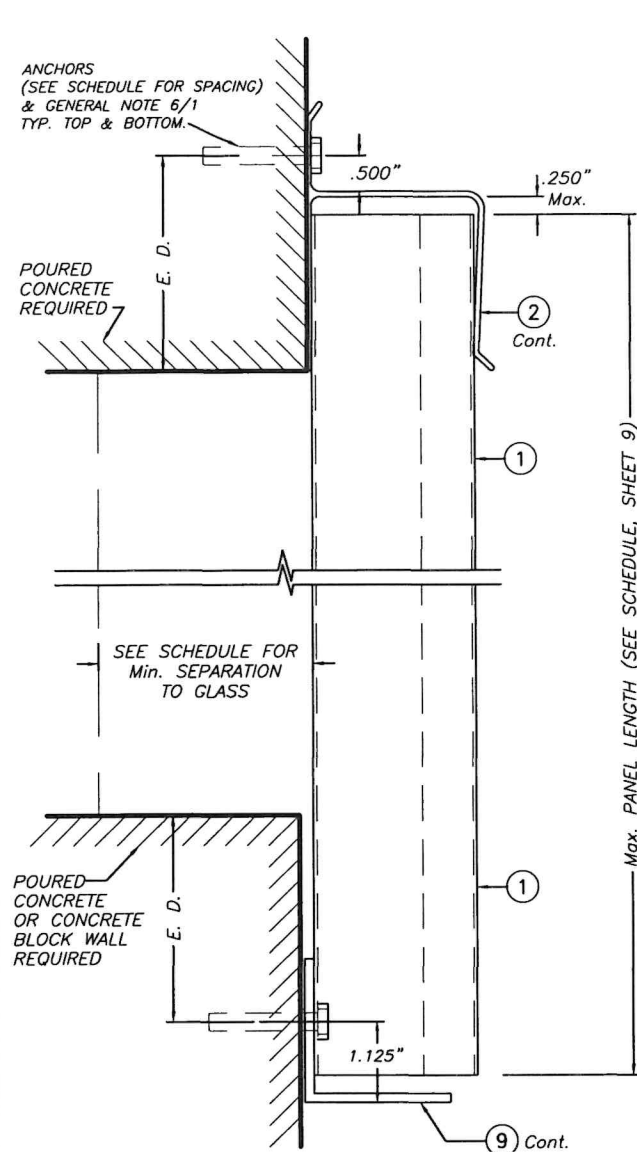
7/24/2026
DATE:

26-232

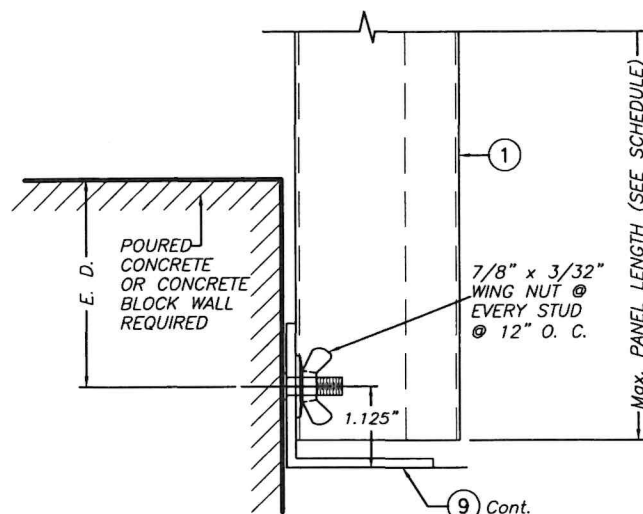
DRAWING No

SHEET 2 OF 15

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		



SECTION @ ANCHOR

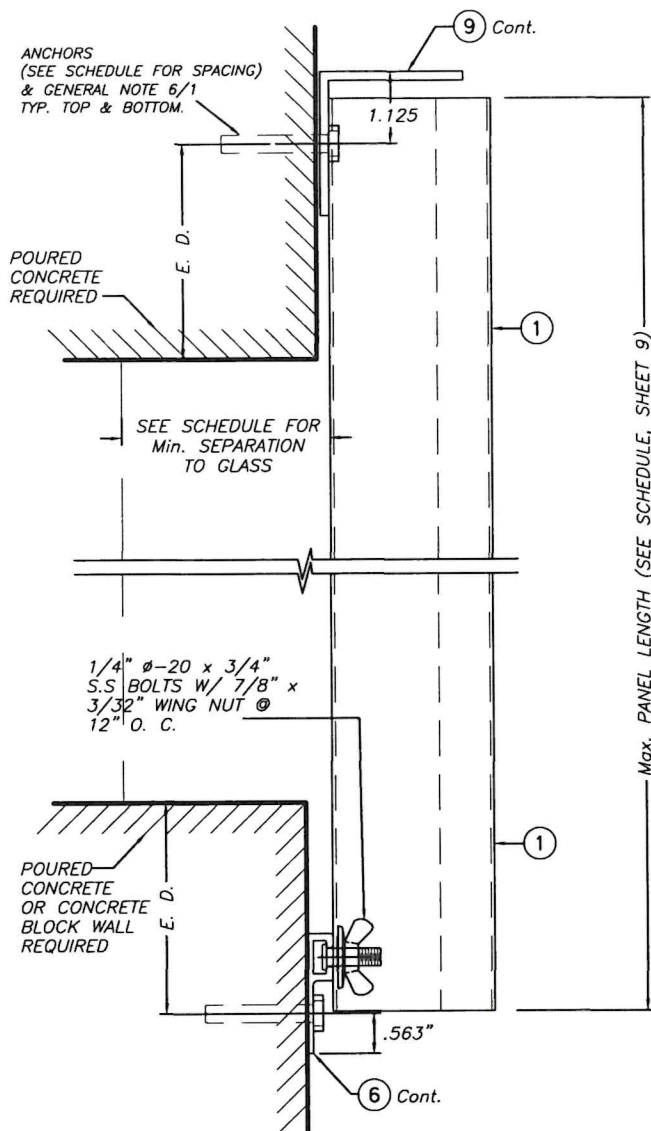


SECTION @ STUD

WALL MOUNTING INSTALLATION SECTION 1

SCALE : 3/8" = 1"

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

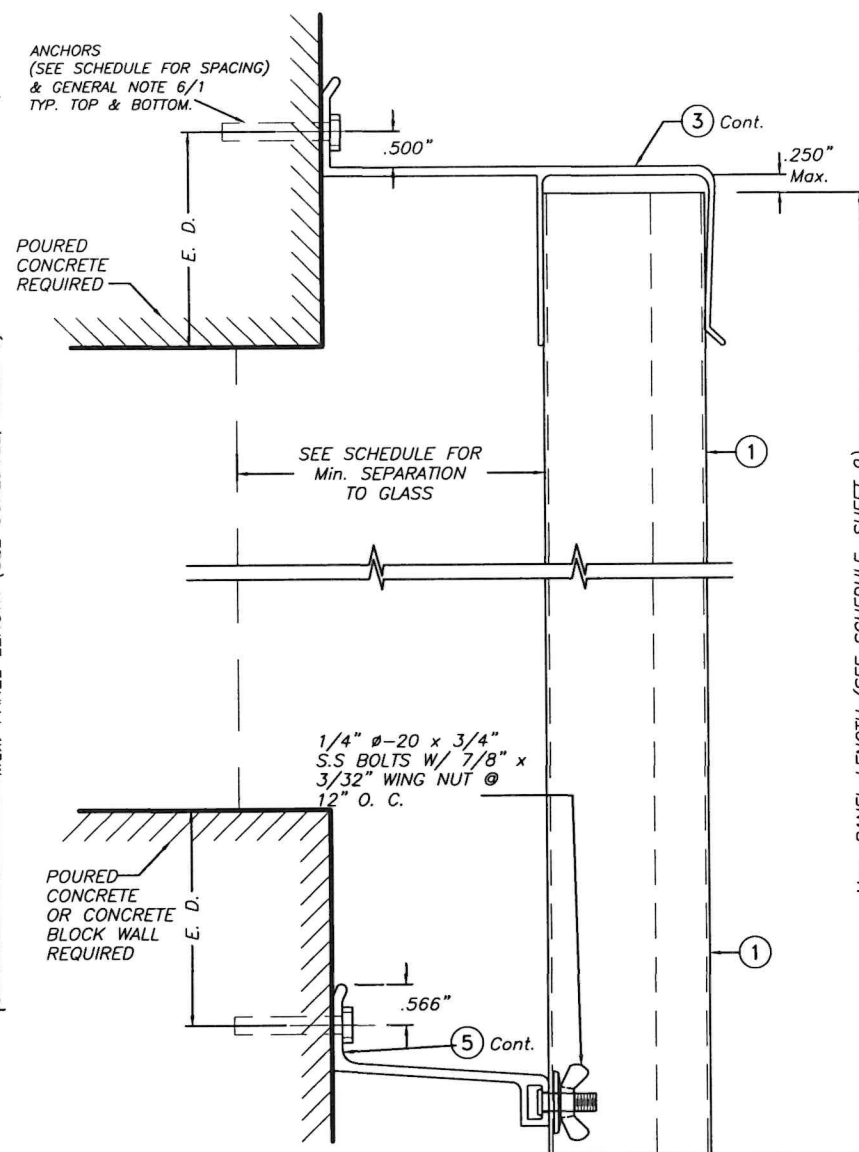


WALL MOUNTING INSTALLATION SECTION 2

SCALE : 3/8" = 1"

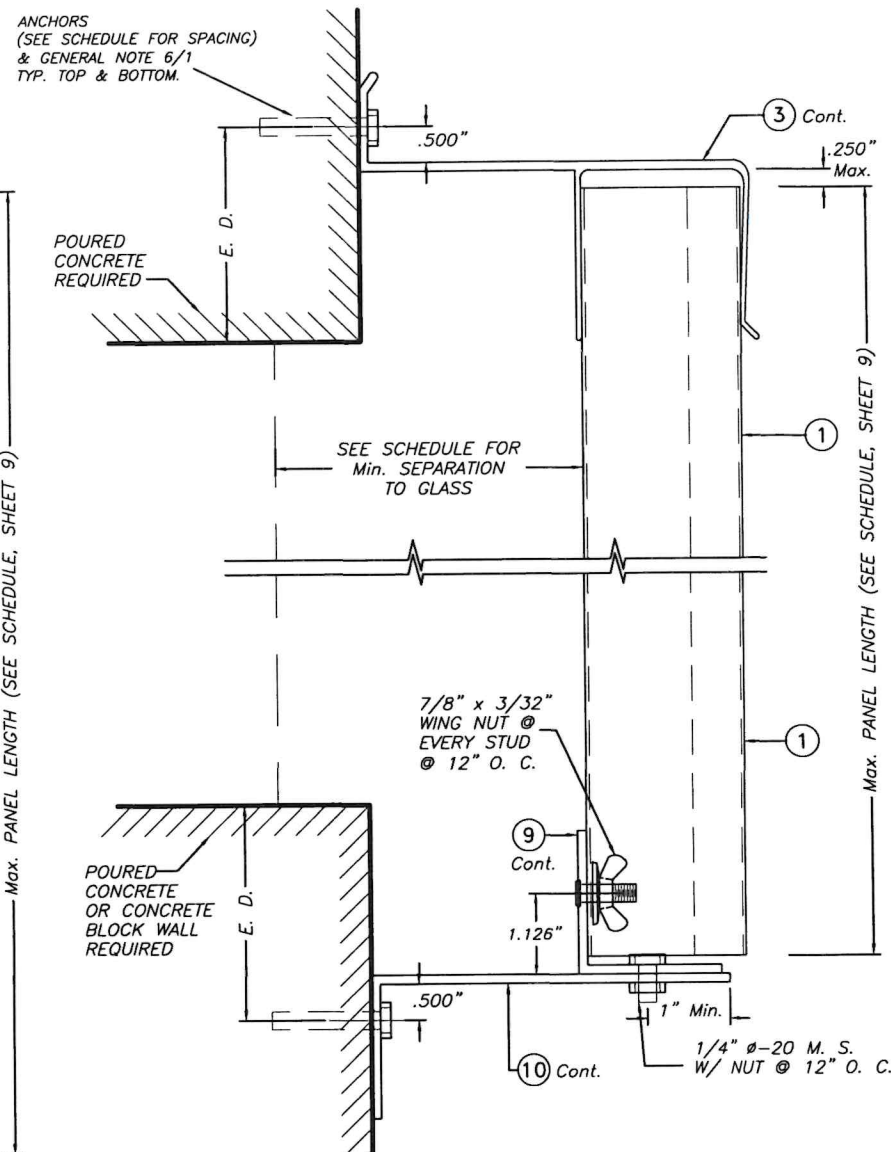
E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 10 & 11)

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



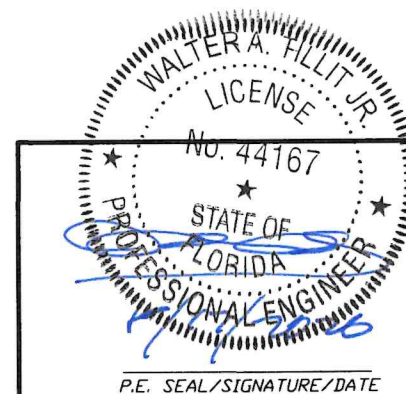
BUILD OUT INSTALLATION SECTION 3

SCALE : 3/8" = 1"



BUILD OUT INSTALLATION SECTION 4

SCALE : 3/8" = 1"



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0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

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W.H.
DRAWN BY:

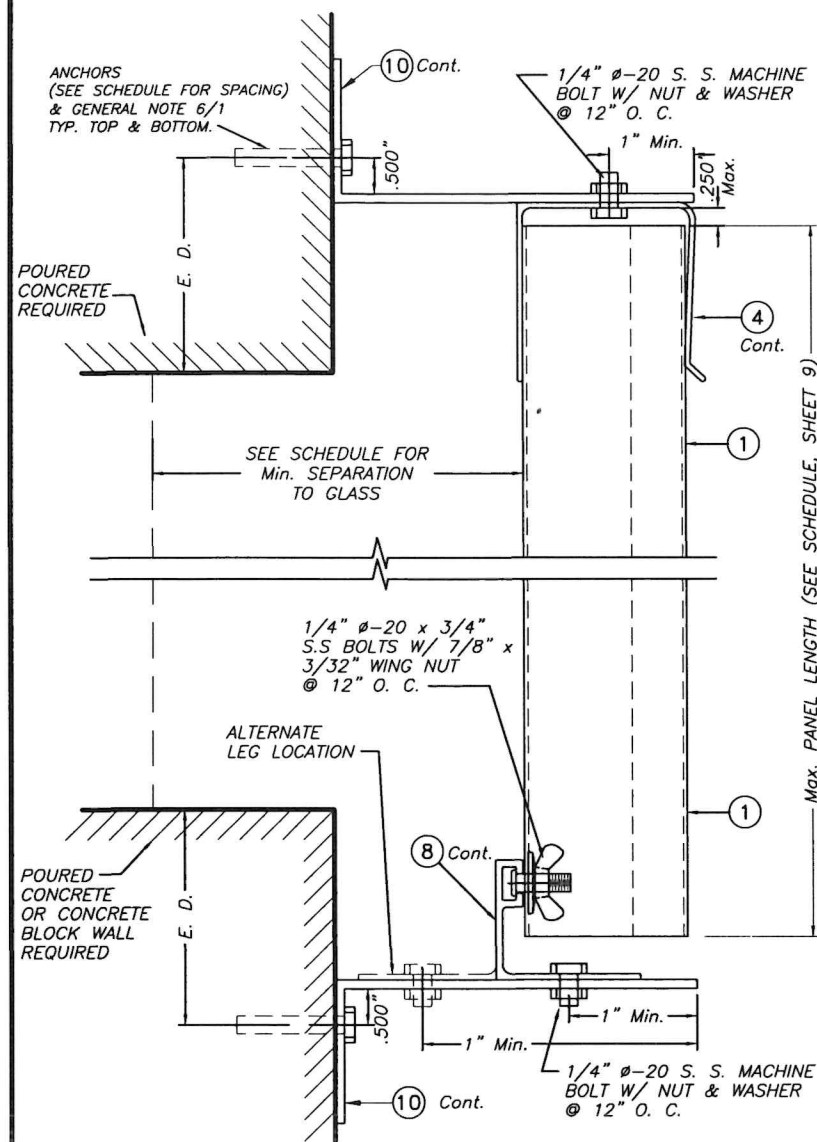
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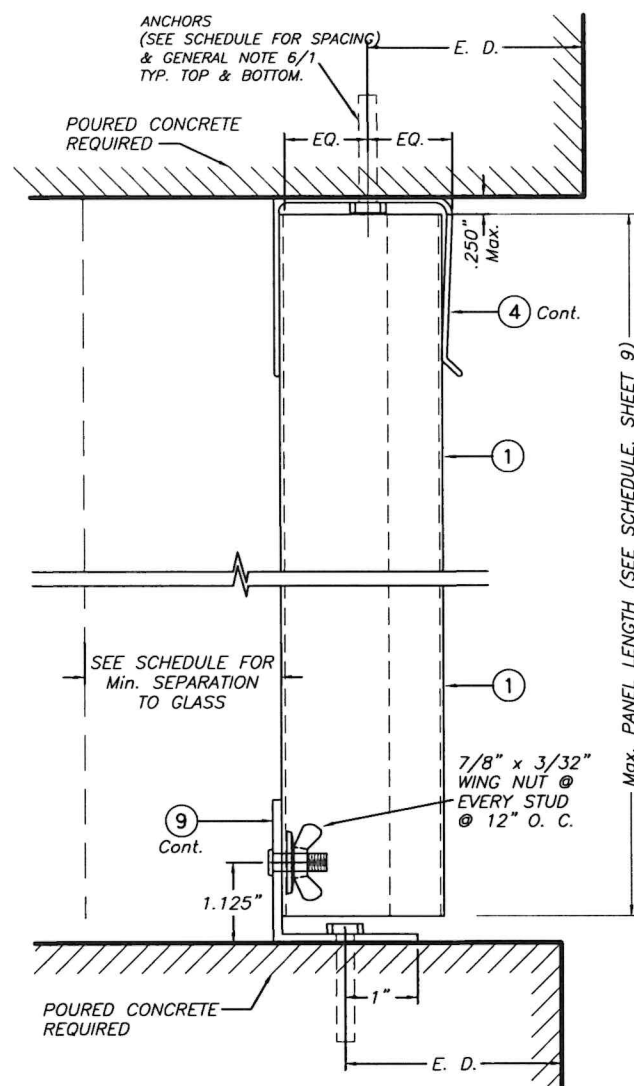
DRAWING No

SHEET 3 OF 15

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

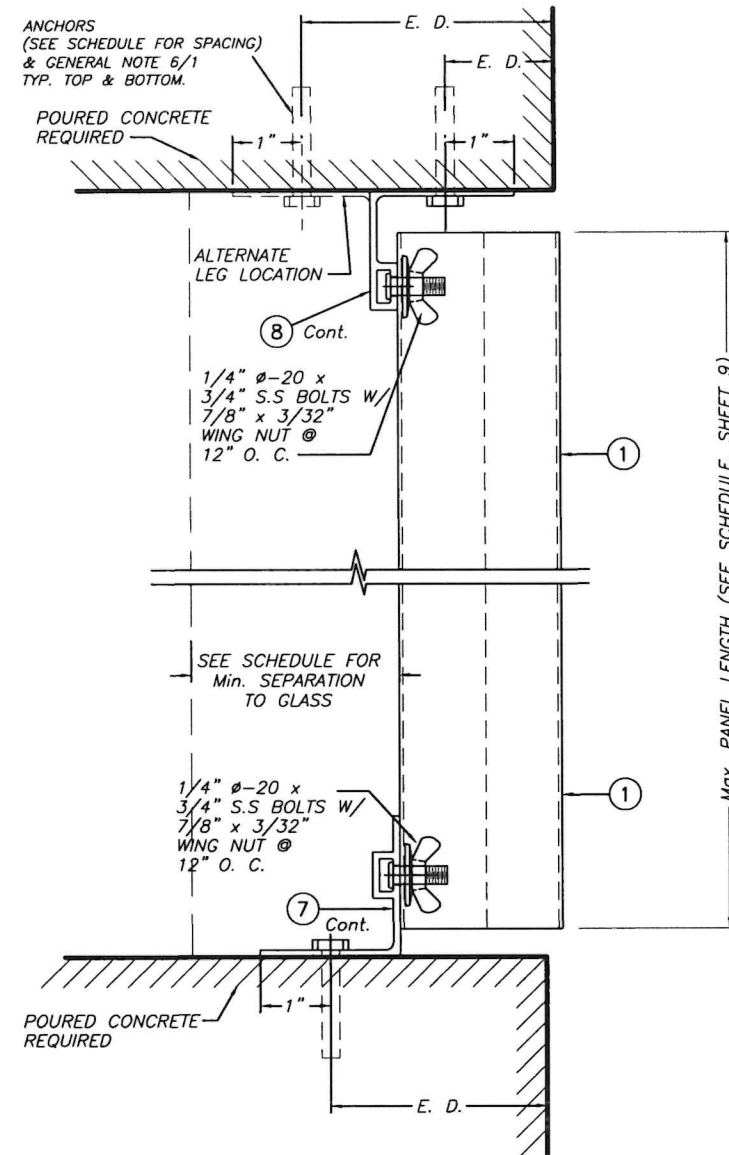


BUILD OUT INSTALLATION
- SECTION 5 SCALE : 3/8" = 1"



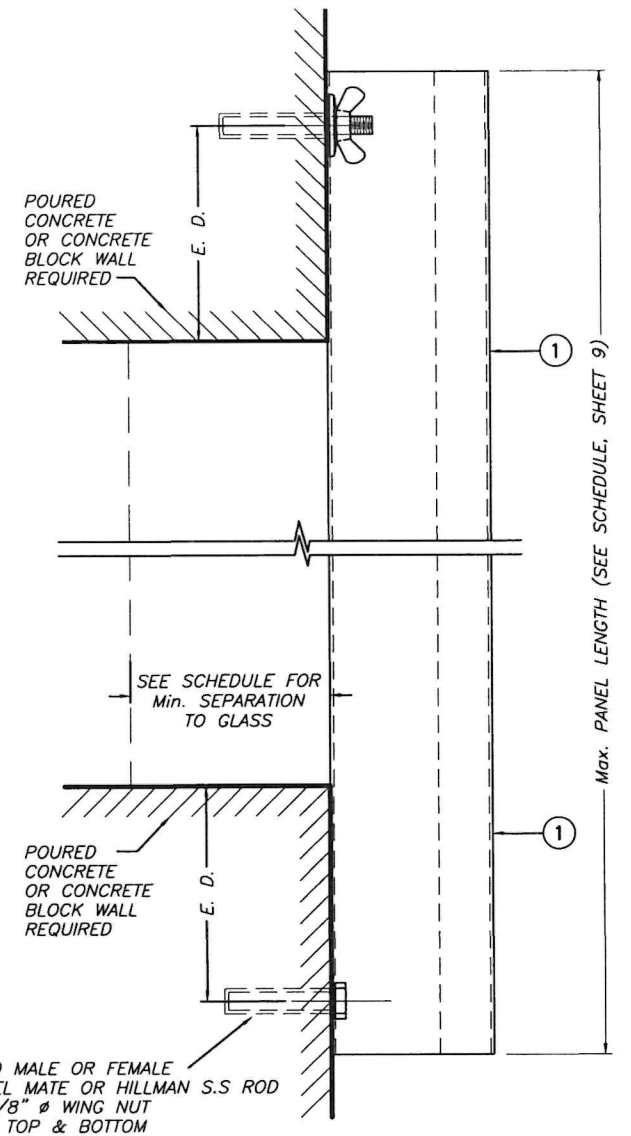
CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 6

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"

E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON
 SHEETS 10 & 11 OF 15)

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

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W.H.
 DRAWN BY:

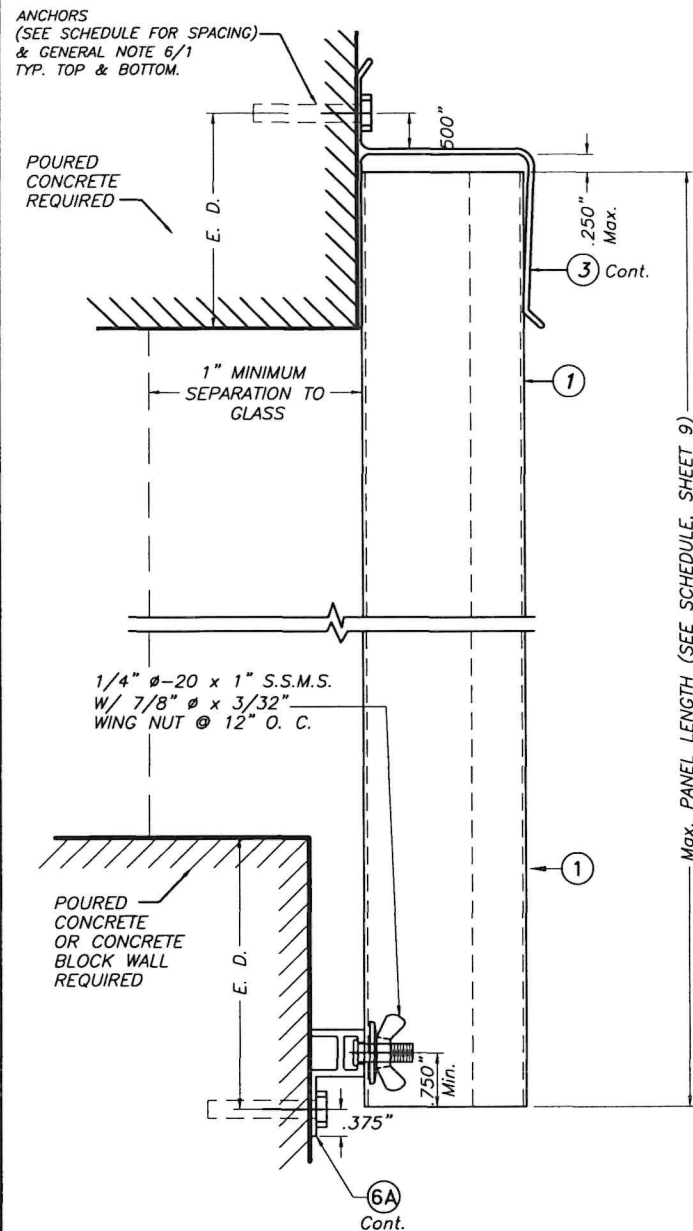
7/24/2026
 DATE:

26-232

DRAWING No

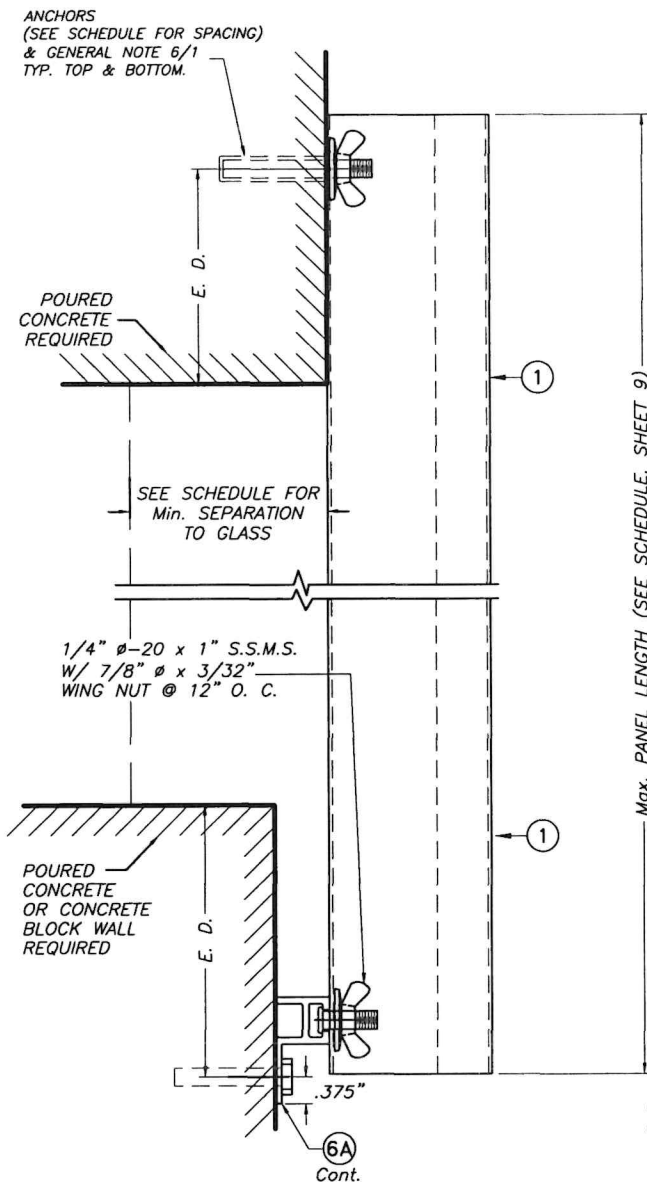
SHEET 4 OF 15

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		



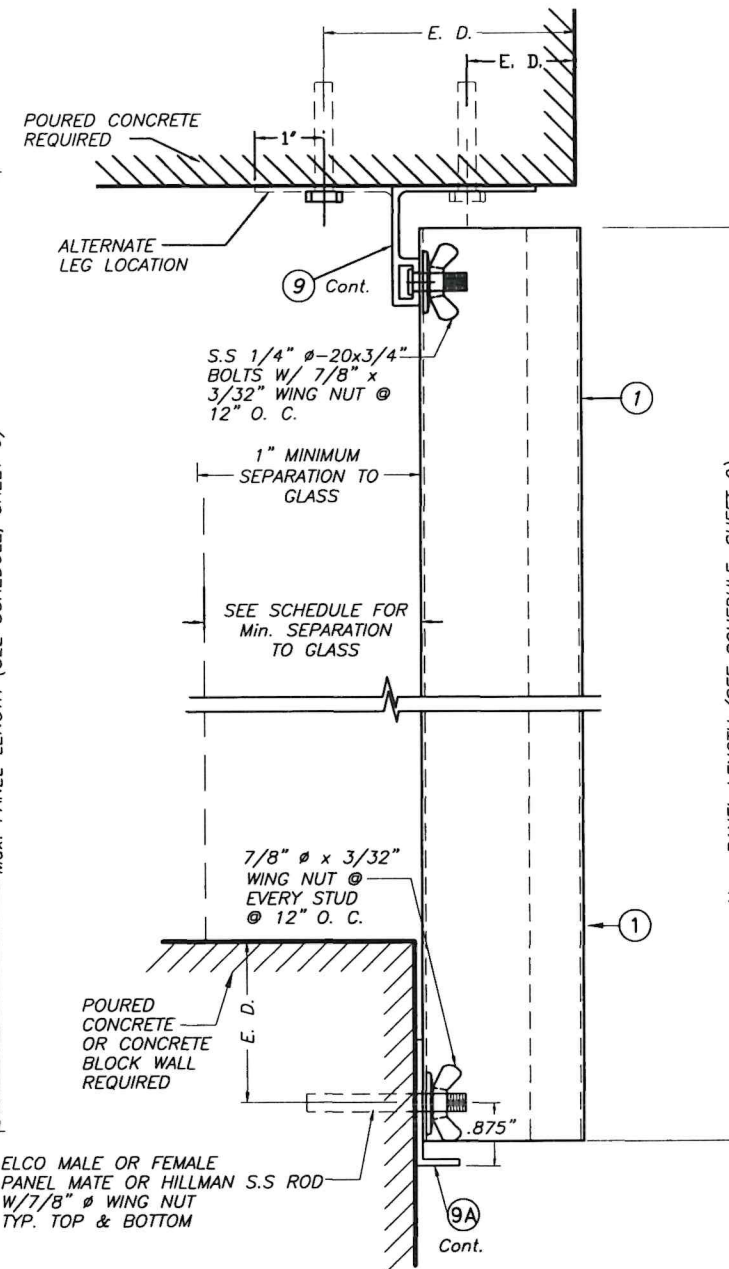
WALL MOUNTING INSTALLATION SECTION 9

SCALE : 3/8" = 1"



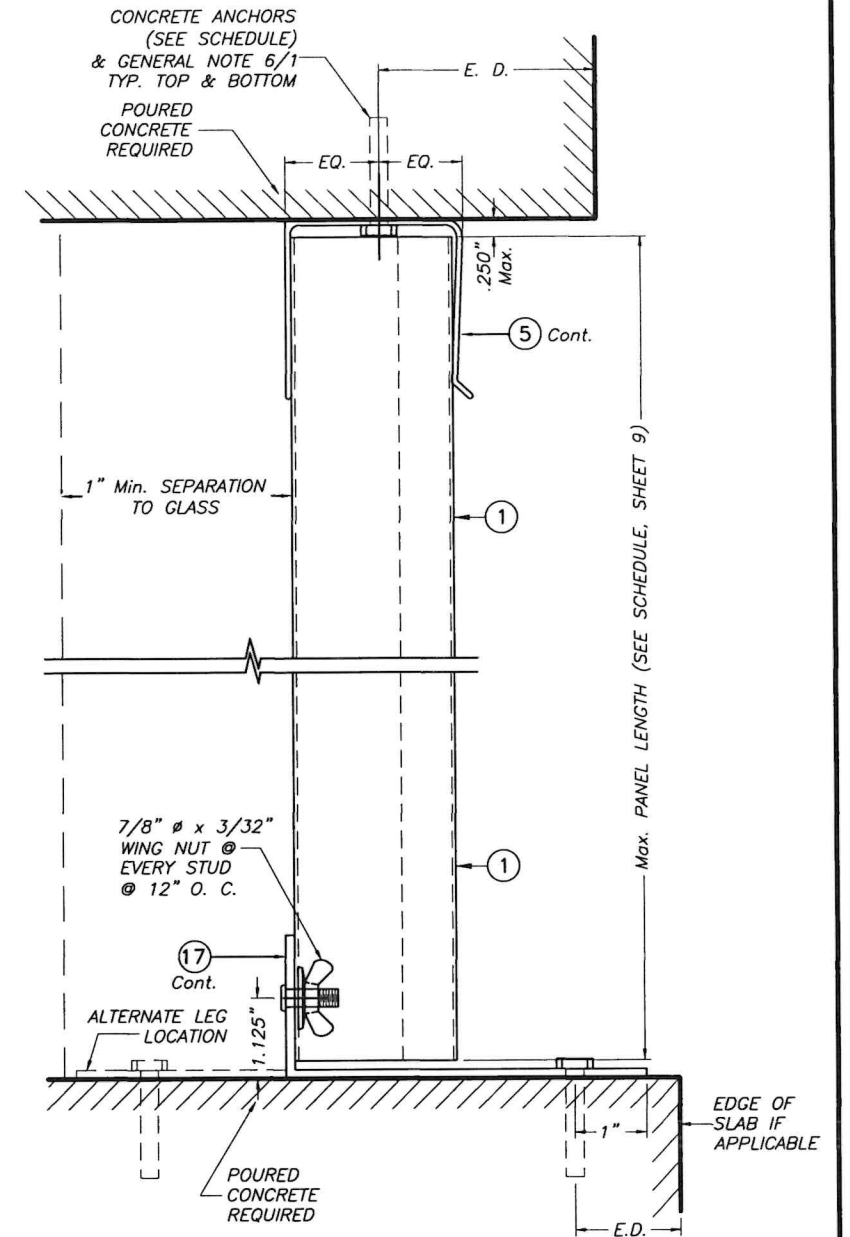
WALL MOUNTING INSTALLATION SECTION 10

SCALE : 3/8" = 1"



WALL MOUNTING INSTALLATION SECTION 11

SCALE : 3/8" = 1"



CEILING & FLOOR MOUNTING INSTALLATION SECTION 12

SCALE : 3/8" = 1"

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 10 & 11 OF 15)

NOTE FOR COMBINATION OF SECTIONS :

WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE
COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

++
SIDE WALK BOLTS ARE 3/4"x3/32"THICK
HEAD SS MACHINE SCREW W/LENGTH
AS PER NOTES A.2 & B.2 (SHEET 1)
++
TRUSS HEAD BOLTS ARE 1/2"x1/8"THICK
HEAD MACHINE SCREW W/LENGTH
AS PER NOTES A.2 & B.2 (SHEET 1)



P.E. SEAL/SIGNATURE/DATE

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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL. 33166
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM 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:

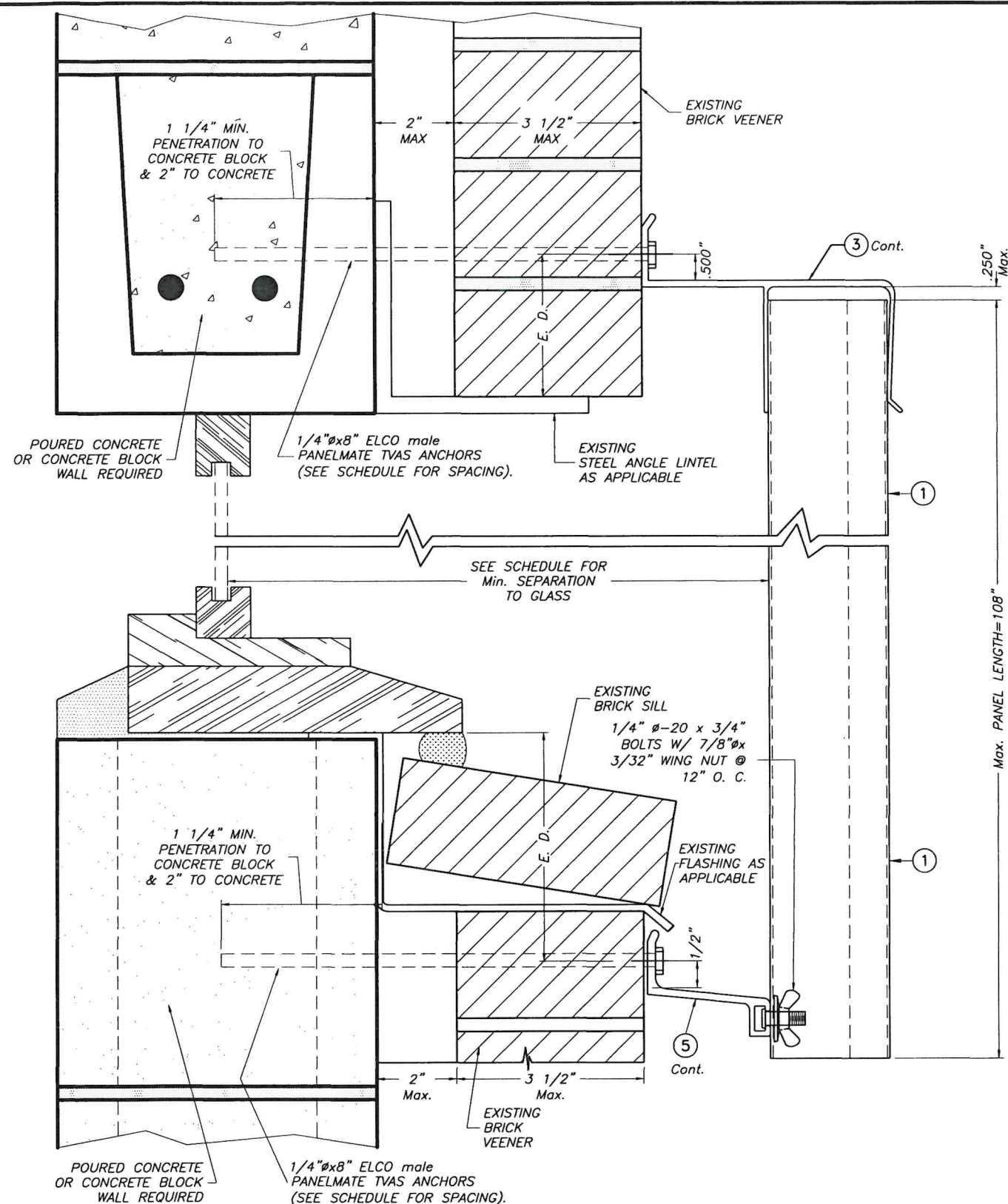
7/24/2026
DATE:

26-232

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 5 OF 15



BUILD OUT INSTALLATION *

SECTION 13

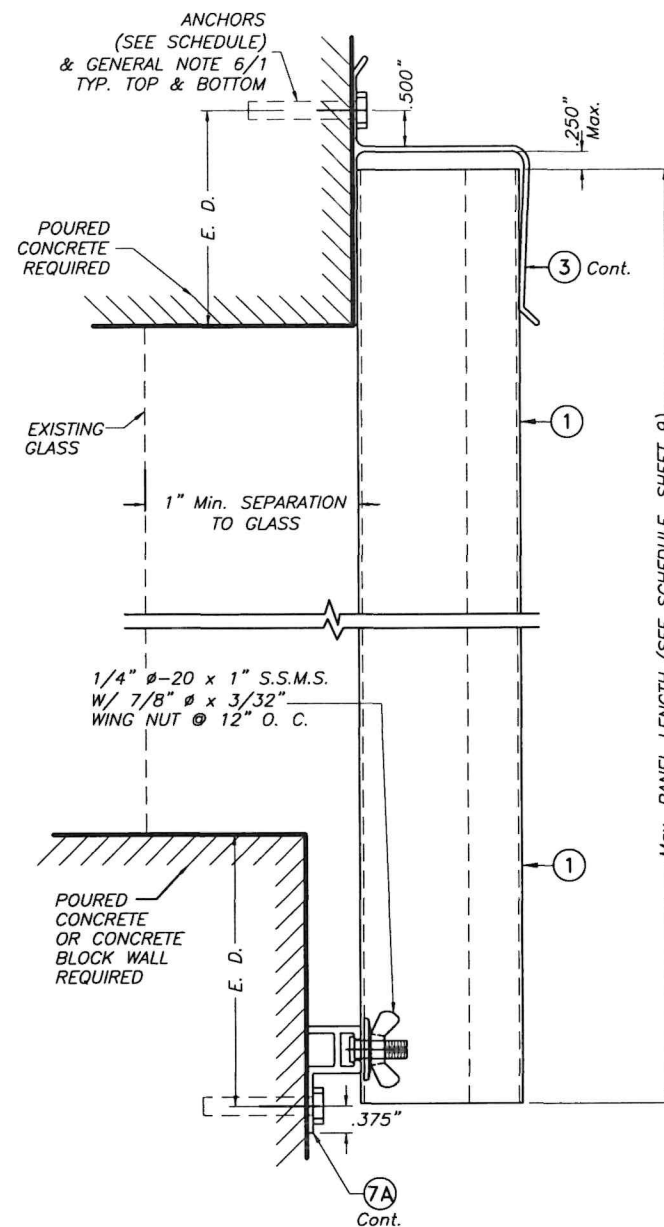
SCALE : 3/8" = 1"

* THIS INSTALLATION IS ONLY VALID FOR BUILDINGS LOCATED MORE THAN 300ft FROM THE COASTAL SHORELINE

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 10 & 11 OF 15)

NOTE FOR COMBINATION OF SECTIONS :

WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

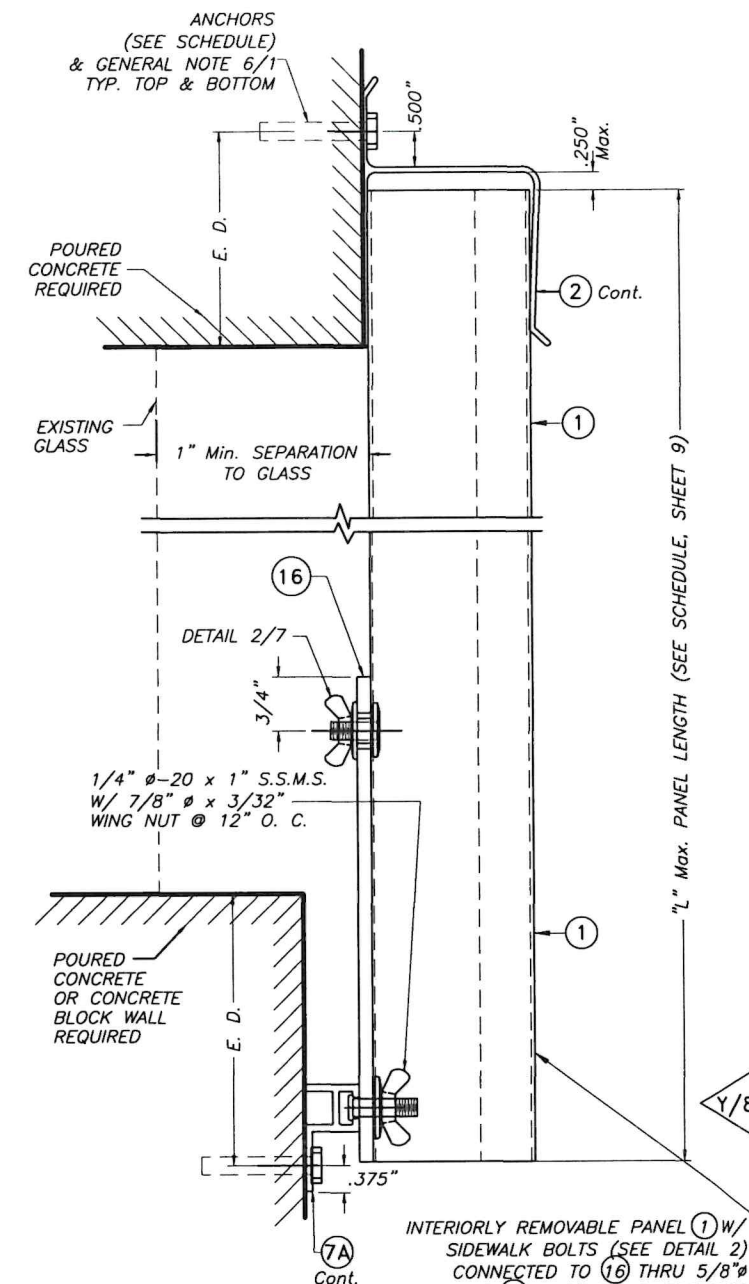


SECTION 14A

WALL MOUNTING INSTALLATIONS

SECTIONS 14

SCALE : 3/8" = 1"



SECTION 14B

INTERIORLY REMOVABLE PANEL ① W/ SIDEWALK BOLTS (SEE DETAIL 2) CONNECTED TO ①⑥ THRU 5/8\"/>

INSTALLATIONS VALID FOR PANELS ① USED JOINTLY WITH INTERIORLY REMOVABLE PANELS ①



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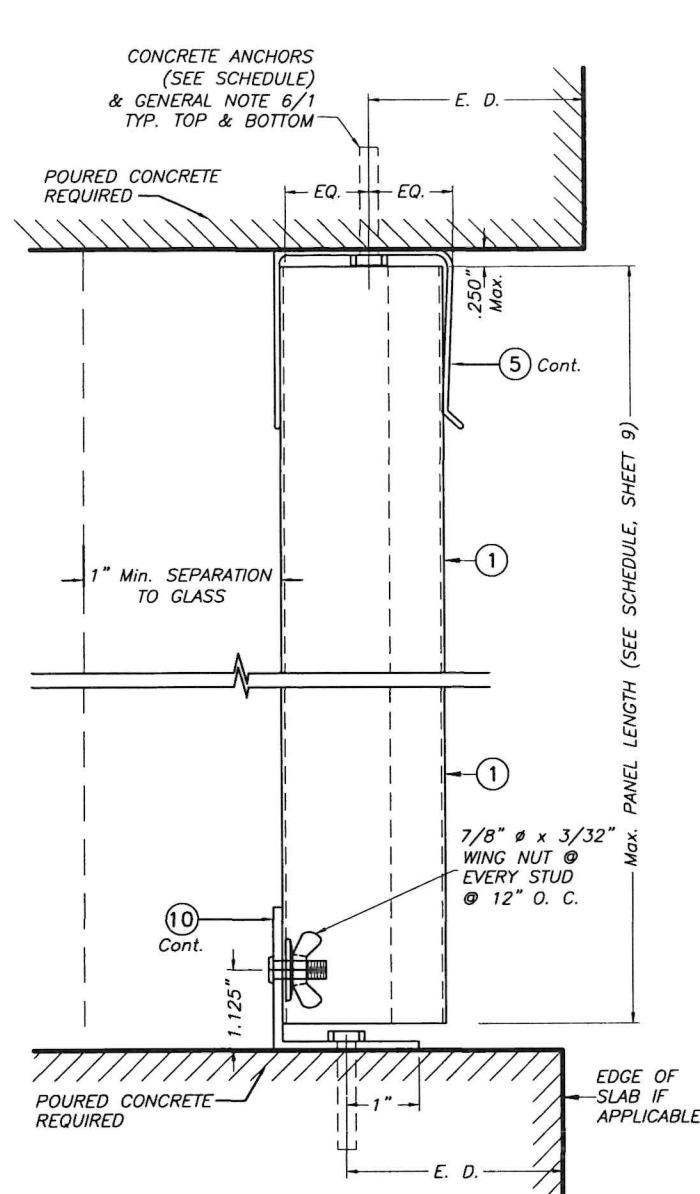
7/24/2026
DATE:

26-232

DRAWING No

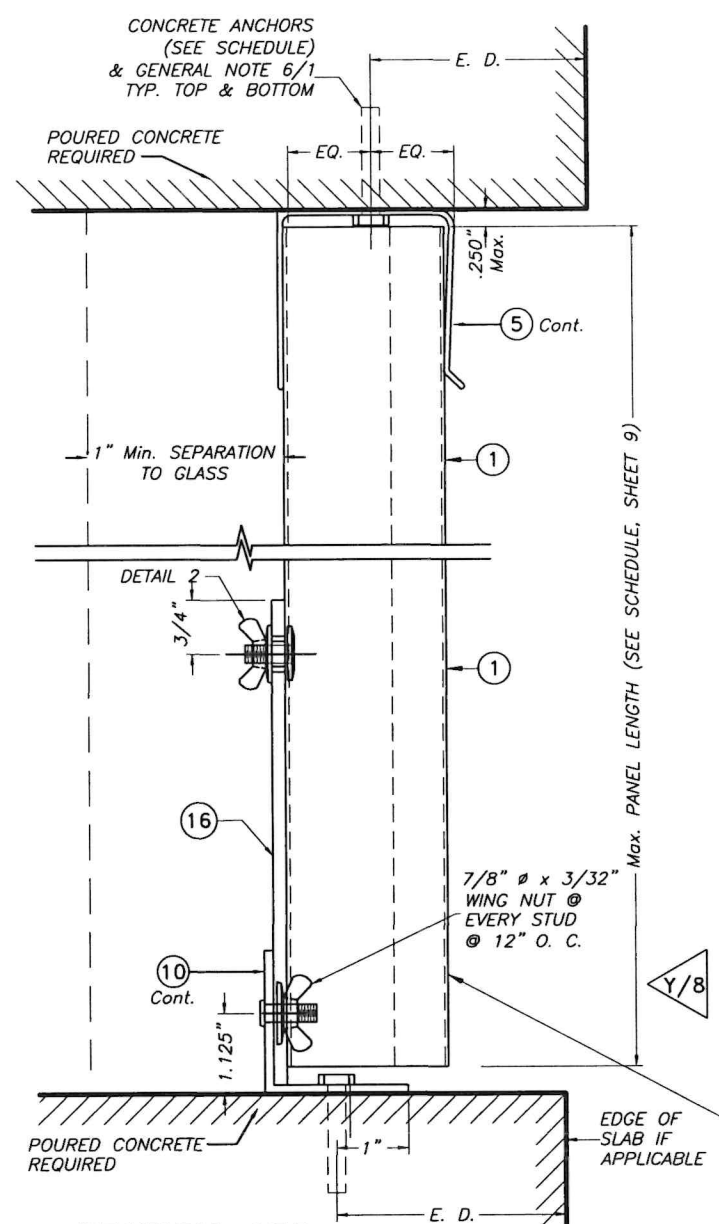
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-15B	7/24/26	3		
2			4		

SHEET 6 OF 15



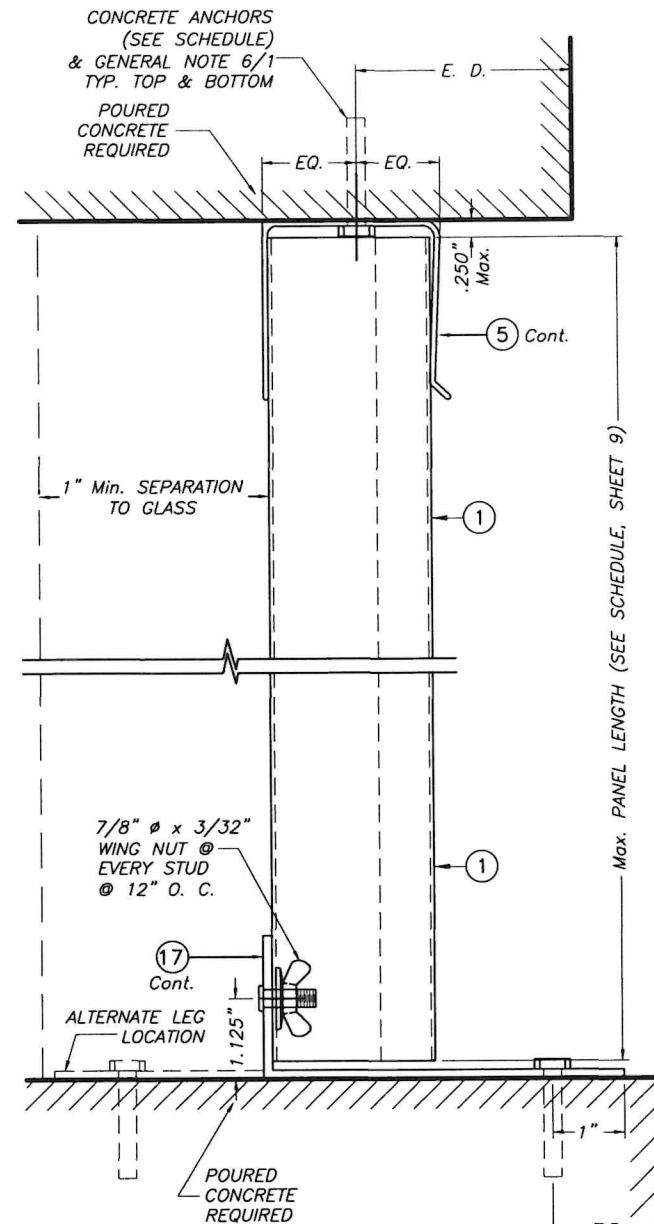
SECTION 15A
CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS 15
SCALE : 3/8" = 1"



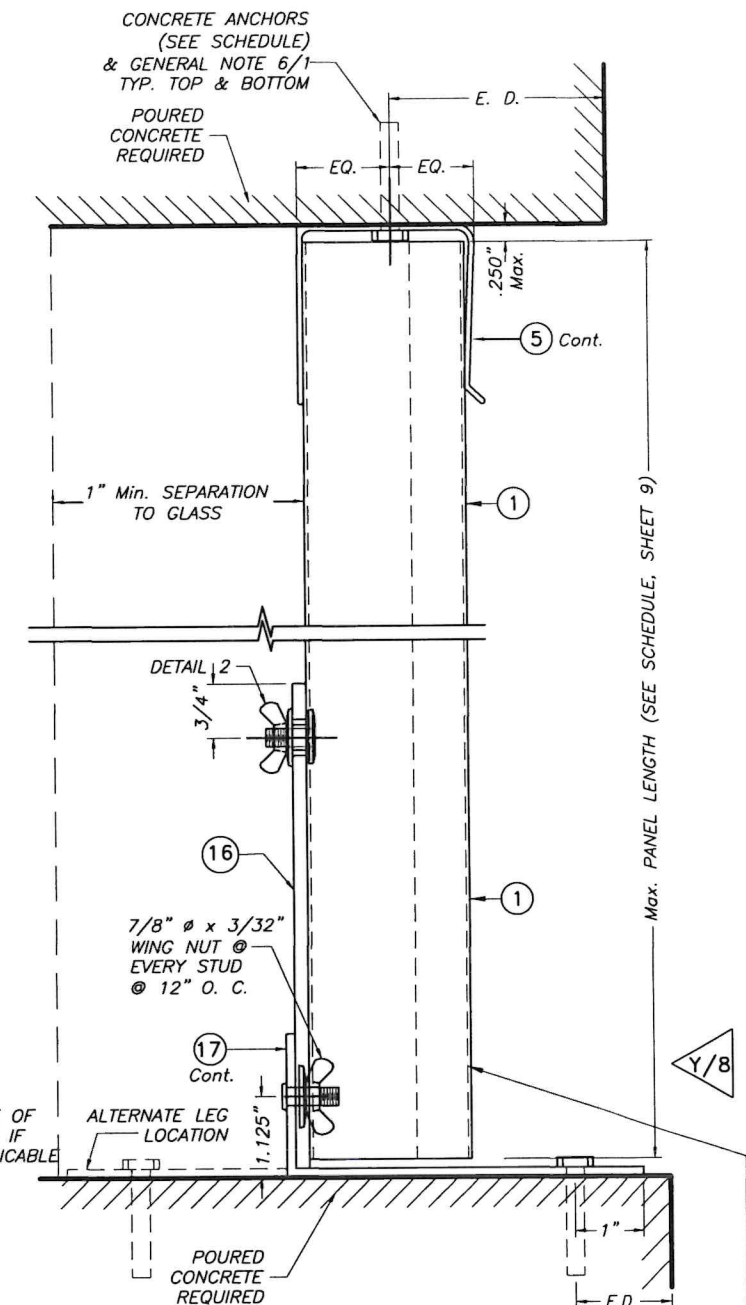
SECTION 15B

INTERIORLY REMOVABLE PANEL (1) W/
SIDEWALK BOLTS (SEE DETAIL 2)
CONNECTED TO (16) THRU 5/8\"/>



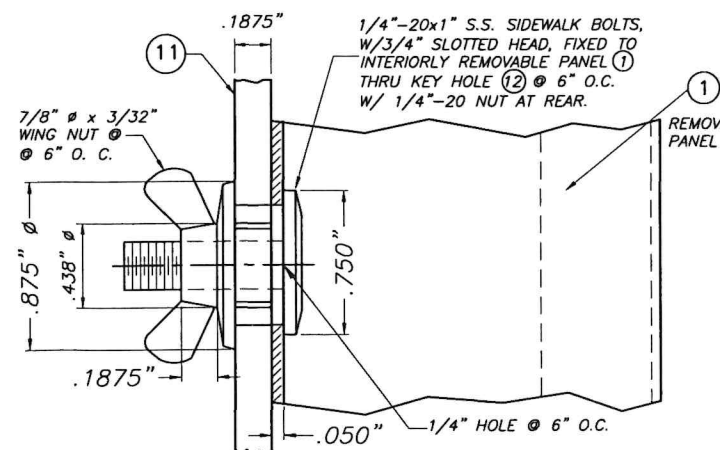
SECTION 16A

CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 16
SCALE : 3/8" = 1"



SECTION 16B

INTERIORLY REMOVABLE PANEL (1) W/
S.S. SIDEWALK BOLTS (SEE DETAIL 2)
CONNECTED TO (16) THRU 5/8\"/>



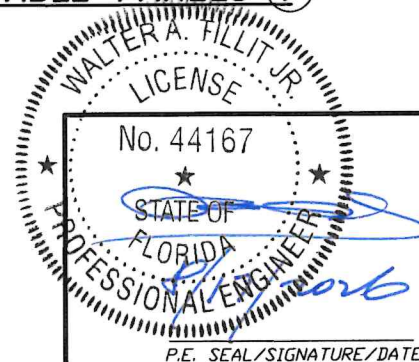
DETAIL 2 - INSTALLATION OF 1/4\"/>

SCALE: 1" = 1"

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEET 10 & 11 OF 15)

NOTE FOR COMBINATION OF SECTIONS :

FLOOR/CEILING MOUNTING SECTIONS CAN BE
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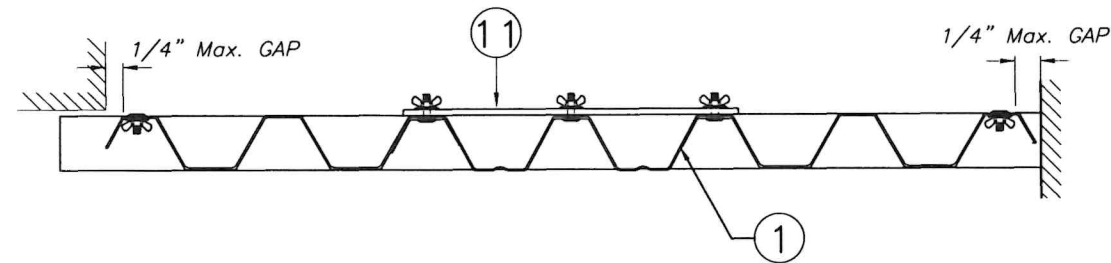
7/24/2026
DATE:

26-232

DRAWING No

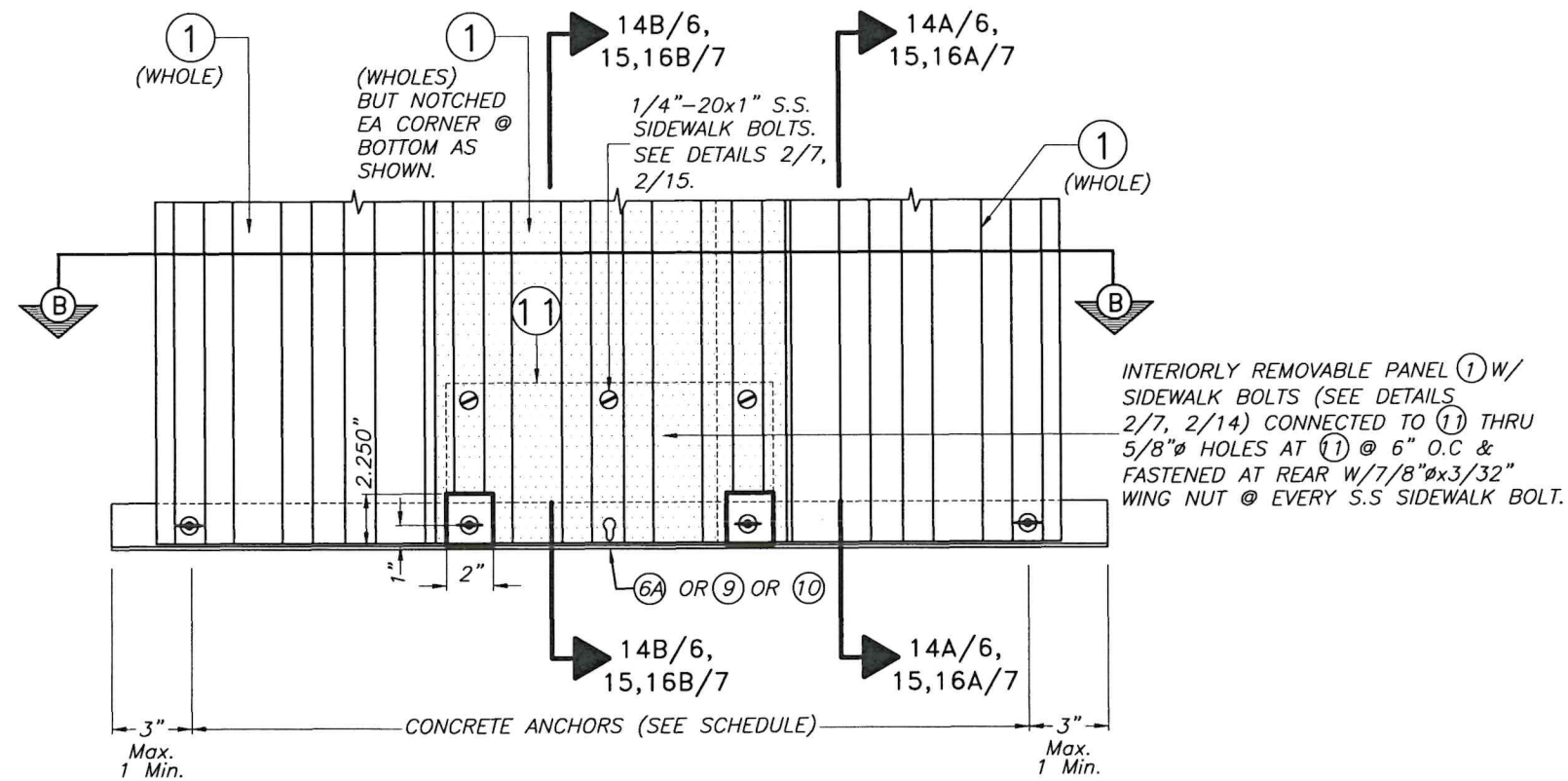
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 7 OF 15



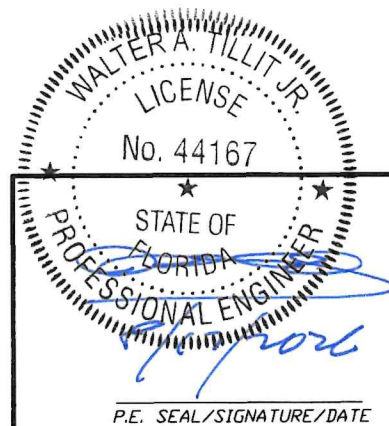
SECTION B-B

SCALE : 1/8" = 1"



INTERIORLY REMOVABLE STORM PANEL PARTIAL ELEVATION Y

SCALE : 1/8" = 1"



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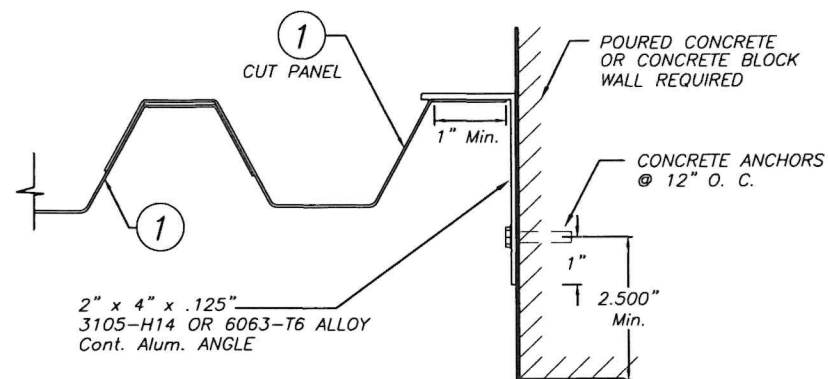
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26-232

DRAWING No

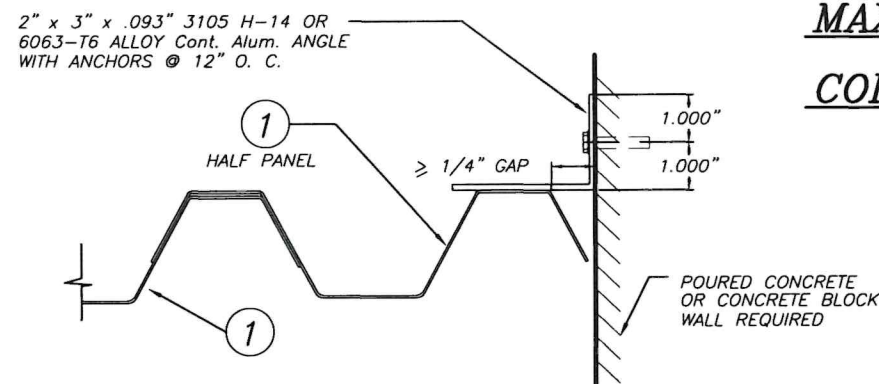
SHEET 8 OF 15

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		



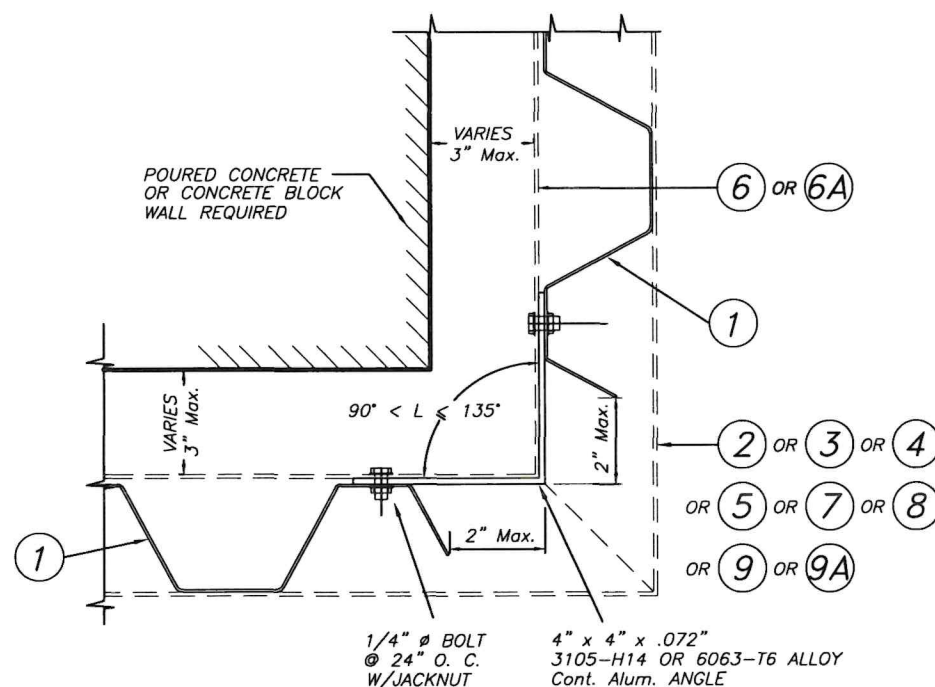
CASE A (Plan)

SCALE: 1/4" = 1"



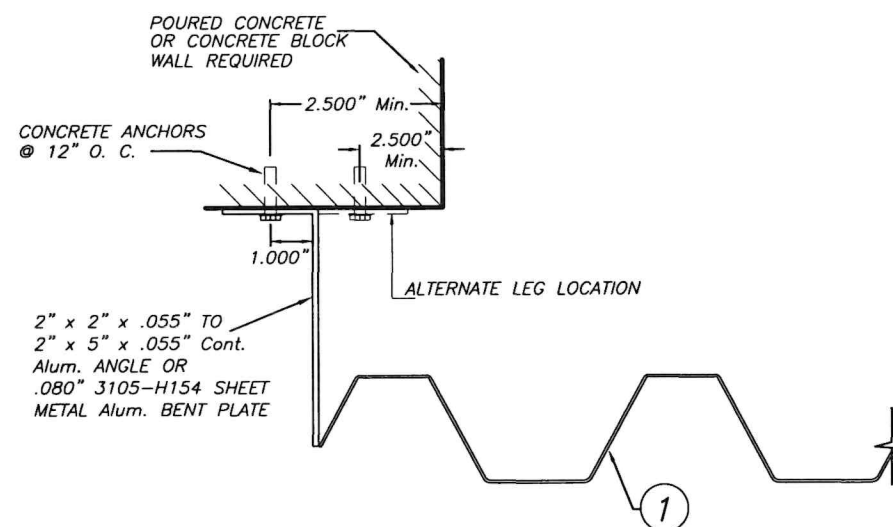
CASE D (Plan)

SCALE: 1/4" = 1"



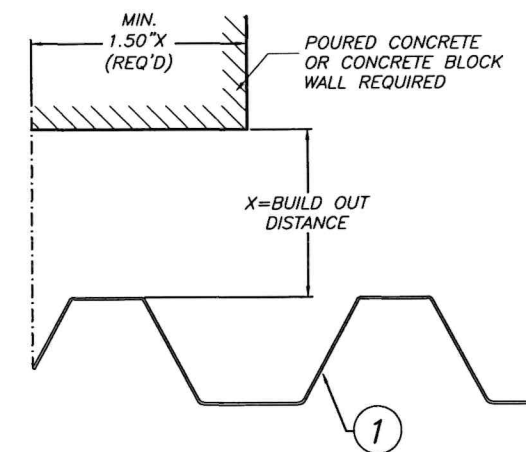
CASE B (Plan)

SCALE: 1/4" = 1"



CASE C (Plan)

SCALE: 1/4" = 1"



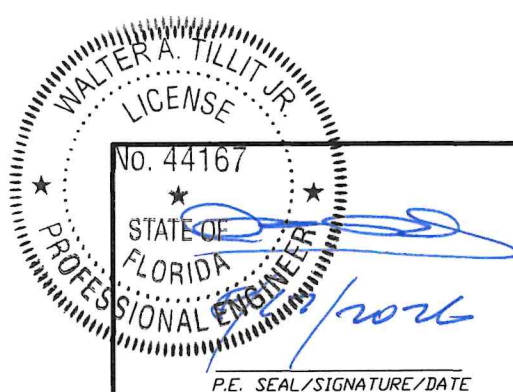
CASE D (Plan)

SCALE: 1/4" = 1"

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

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
+65.0, -77.0	8'-0" OR LESS	2 1/4"	1 THRU 8
+65.0, -77.0	9'-0" OR LESS	3 11/16"	1 THRU 8
+65.0, -72.0	9'-0" OR LESS	3 1/2"	11
+62.0, -73.3	10'-0" OR LESS	3 7/8"	2, 6, 7 & 8
+63.5, -63.5	9'-0" OR LESS	3 1/2"	9, 14, 10
+65.0, -65.0	9'-0" OR LESS	3 1/2"	12, 15, 16
+63.5, -63.5	9'-0" OR LESS	3 3/4"	13

END CLOSURES DETAILS



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W.H.
DRAWN BY:

7/24/2026
DATE:

26-232

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 9 OF 15

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

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.)
	ULTRACONS		CRETE-FLEX SS4		CF TAP-GRIP		PANELMATES		PANELMATES OR HILLMAN S.S. ROD		410 S.S. TAPCON			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+63.5, -63.5	8"	N/A	N/A	N/A	5"	N/A	3 1/2"	N/A	N/A	N/A	N/A	N/A	1 (TOP)	9'-0" OR LESS
	12"	4"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	
	12"	4"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	3 (TOP)	
	12"	4"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	4 (TOP)	
	12"	4"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	5 (TOP)	
	12"	4"	N/A	N/A	12"	6"	11"	6"	12"	7 1/2"	N/A	N/A	5 (BOTTOM)	
	8 1/2"	N/A	12"	N/A	8 1/2"	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	6 (TOP)	
	8 1/2"	N/A	12"	N/A	8 1/2"	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	6 (BOTTOM)	
	7 1/2"	N/A	11 1/2"	N/A	7"	N/A	10 1/2"	N/A	10"	N/A	8 1/2"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	12"	6"	6"	6"	12"	12"	N/A	N/A	8 (TOP/BOTTOM)	
	12"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	9 (TOP)	
	12"	4"	12"	10"	N/A	N/A	12"	8"	12"	7 1/2"	12"	6"	9 (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	8"	12"	6"	N/A	N/A	10 (TOP)	
	12"	4"	12"	10"	N/A	N/A	12"	8"	12"	7 1/2"	12"	6"	10 (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	9"	N/A	N/A	N/A	N/A	13 (TOP)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	8"	N/A	N/A	N/A	N/A	13 (BOTTOM)	
	12"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	14 (TOP)	
	12"	4"	12"	10"	N/A	N/A	12"	8	12"	7 1/2"	12"	6"	14A (BOTTOM)	
	12"	N/A	12"	7"	N/A	N/A	12"	6"	12"	5 1/2"	12"	4"	14B (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	12 (TOP)	
	8 1/2"	N/A	12"	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	12 (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	15 (TOP)	
	8 1/2"	N/A	12"	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	15A (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	3"	N/A	3"	N/A	3"	N/A	15B (BOTTOM)	
11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	16 (TOP)		
8 1/2"	N/A	12"	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	16A (BOTTOM)		
3" **	N/A	N/A	N/A	N/A	N/A	N/A	4"	N/A	4"	N/A	4"	N/A	16B (BOTTOM)	
+65.0, -65.0	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	9'-0" TO 10'-0"
	6"	4"	N/A	N/A	6"	5"	6"	6"	N/A	N/A	N/A	N/A	2 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	5 1/2"	N/A	N/A	N/A	N/A	N/A	6 (TOP)	
	6"	N/A	N/A	N/A	6"	N/A	5 1/2"	N/A	N/A	N/A	N/A	N/A	6 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	4 1/2"	N/A	N/A	N/A	N/A	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	6"	5"	6"	5"	N/A	N/A	N/A	N/A	8 (TOP/BOTTOM)	

E. D. = EDGE DISTANCE

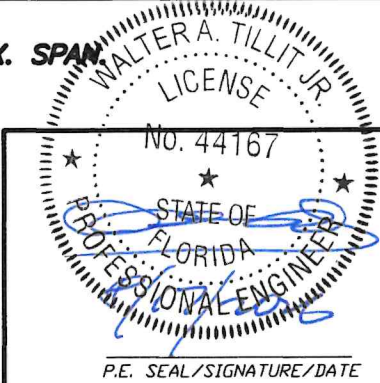
ANCHORS LEGEND

ANCHOR TYPE	Min. ANCHOR SPACING
CF TAP-GRIP, PANELMATE OR PANELMATE PLUS.	3.0"
CRETE FLEX SS4	6.0"
ULTRACONS OR 410.S.S TAPCON IN BLOCK	4.0"
ULTRACONS OR 410.S.S TAPCON IN CONCRETE	3.0"

* 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. (NOTE: Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2") 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		
	ULTRACONS OR 410 S.S. TAPCON	S.S. ROD, CRETE-FLEX SS4 & PANELMATE OR PANELMATE PLUS.	CF TAP-GRIP
3"	-	.86	1.00
2 1/2"	-	.71	.80
2"	-	.50	-
1 1/2"	0.35	-	-

** LIMITED TO 5'-4" MAX. SPAN



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DRAWN BY:

7/24/2026
DATE:

26-232

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 10 OF 15

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 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.)
	ULTRACONS		CRETE-FLEX SS4		CF TAP-GRIP		PANELMATES OR HILLMAN SS ROD		PANELMATE PLUS		410 S.S. TAPCON			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+65.0, -77.0	6"	N/A	N/A	N/A	3 1/2"	N/A	2 1/2"	N/A	N/A	N/A	N/A	N/A	1 (TOP)	9'-0" OR LESS
	12"	4"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	1 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	
	12"	4"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	2 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	3 (TOP)	
	12"	4"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	3 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	4 (TOP)	
	12"	4"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	4 (BOTTOM)	
	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	5 (TOP)	
	12"	N/A	N/A	N/A	10"	4"	7 1/2"	4"	N/A	N/A	N/A	N/A	5 (BOTTOM)	
	7"	N/A	N/A	N/A	7"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (TOP)	
	7"	N/A	N/A	N/A	7"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	4 1/2"	N/A	N/A	N/A	N/A	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	12"	4"	6"	4"	N/A	N/A	N/A	N/A	8 (TOP/BOTTOM)	
+65.0, -72.0	6 1/2"	N/A	12"	N/A	N/A	N/A	9"	N/A	9"	N/A	7 1/2"	N/A	7 (TOP/BOTTOM)	9'-0" OR LESS
	N/A	N/A	N/A	N/A	N/A	N/A	12"	6"	12"	6"	N/A	N/A	11 (TOP)	
	12"	4"	12"	9"	N/A	N/A	12"	7"	12"	6 1/2"	12"	5"	11 (BOTTOM)	
+62.0, -73.3	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	9'-0" TO 10'-0"
	6"	N/A	N/A	N/A	6"	4"	6"	6"	N/A	N/A	N/A	N/A	2 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (TOP)	
	6"	N/A	N/A	N/A	6"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (BOTTOM)	
	6"	N/A	N/A	N/A	5 1/2"	N/A	4"	N/A	N/A	N/A	N/A	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	6"	4"	6"	4"	N/A	N/A	N/A	N/A	8 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 (BOTTOM) 10 (TOP) 11 (TOP/BOTTOM)	

E. D. = EDGE DISTANCE

* 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. (NOTE: Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2") 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		
	ULTRACONS OR 410 S.S. TAPCON	CRETE-FLEX SS4 & PANELMATE OR PANELMATE PLUS.	CF TAP-GRIP
3"	-	.86	1.00
2 1/2"	-	.71	.80
2"	-	.50	-
1 1/2"	0.35	-	-

ANCHORS LEGEND

ANCHOR TYPE	Min. ANCHOR SPACING
CF TAP-GRIP, PANELMATE OR PANELMATE PLUS.	3.0"
CRETE FLEX SS4	6.0"
ULTRACONS OR 410 S.S. TAPCON IN BLOCK	4.0"
ULTRACONS OR 410 S.S. TAPCON IN CONCRETE	3.0"

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM 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:

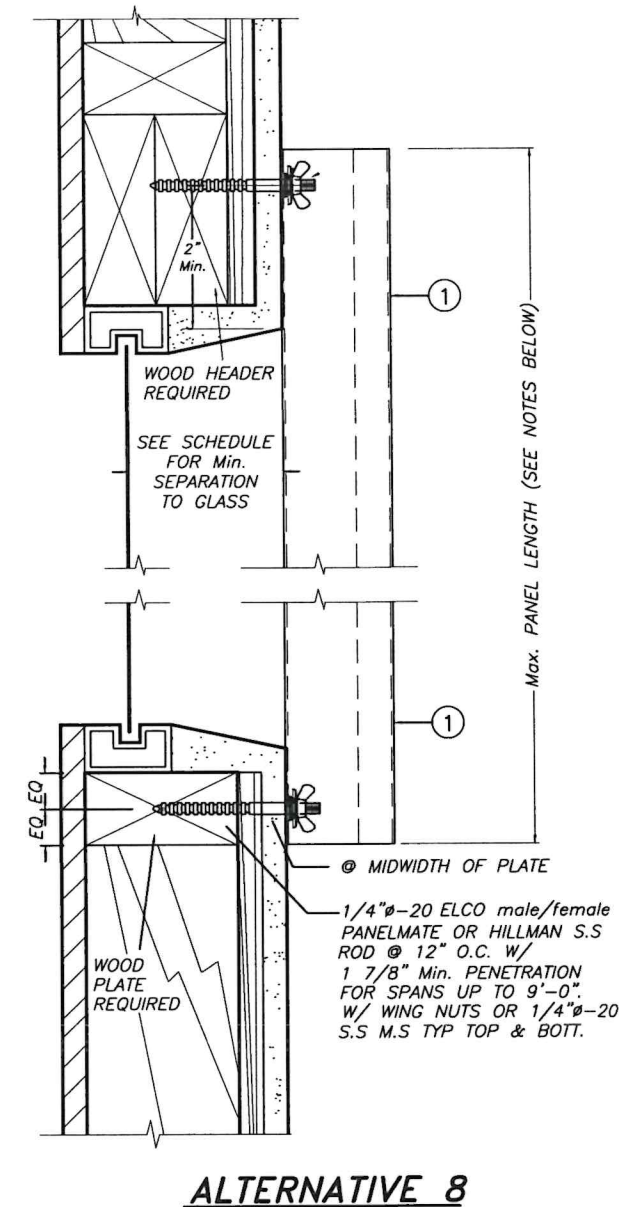
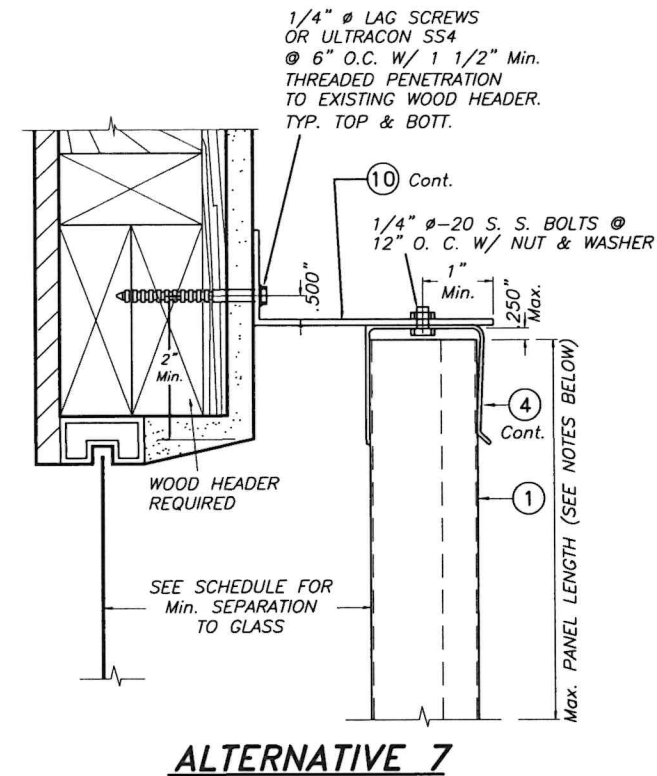
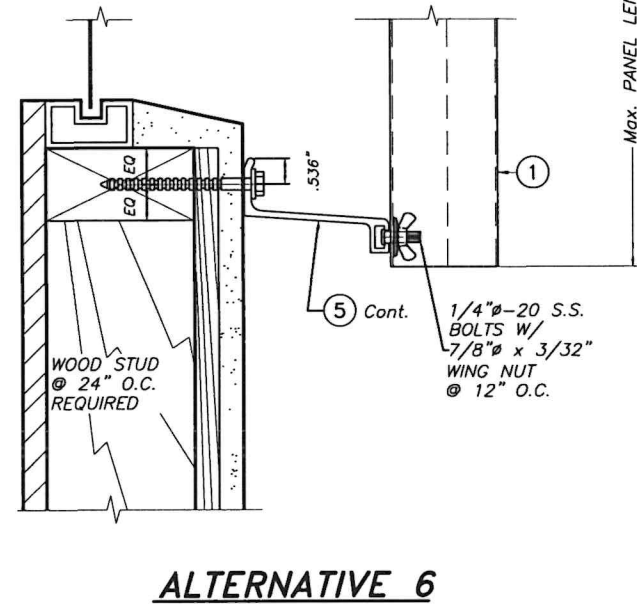
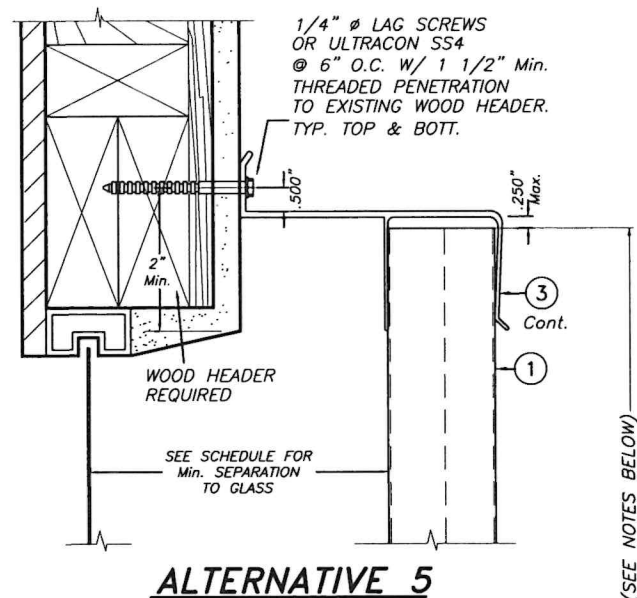
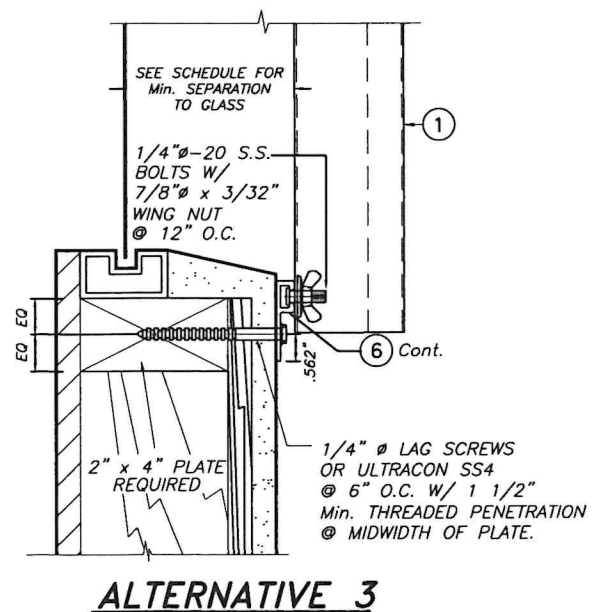
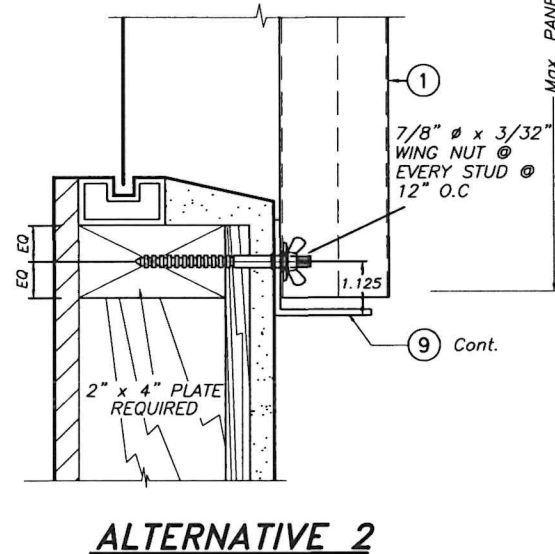
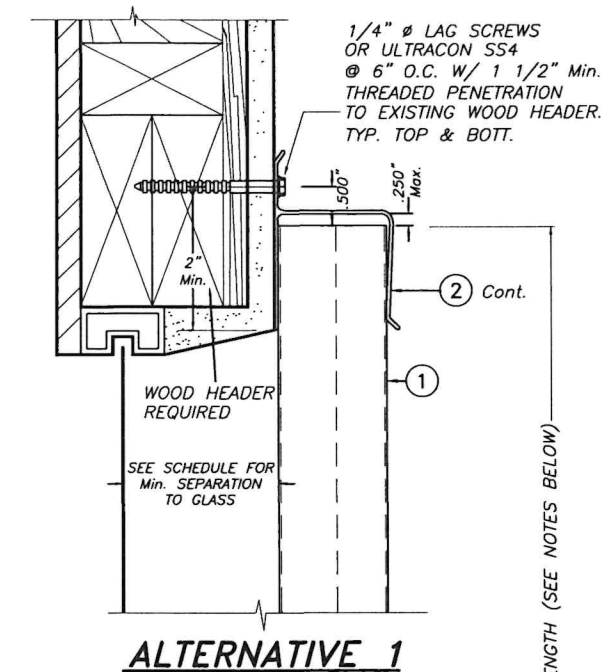
7/24/2026
DATE:

26-232

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 11 OF 15



WALL MOUNTING INSTALLATIONS

SECTIONS A

SCALE : 1/4" = 1"

SCALE : $1/4" = 1"$

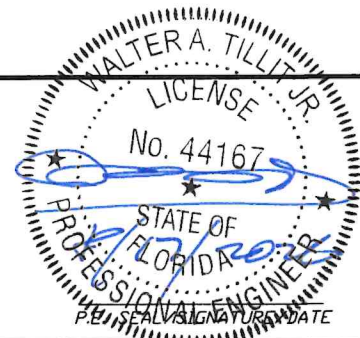
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTE FOR COMBINATION OF SECTIONS:

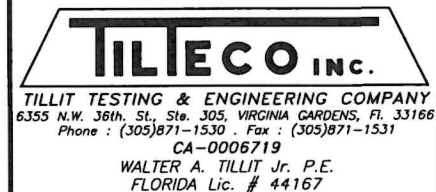
WALL MOUNTING SECTIONS CAN BE COMBINED
IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0", EXCEPT AS NOTED.
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.



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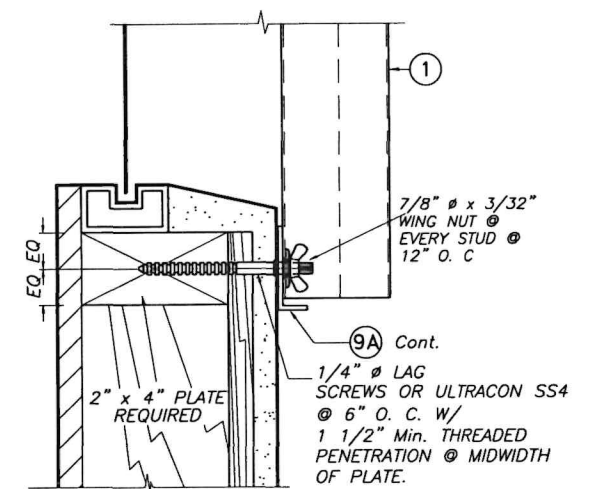
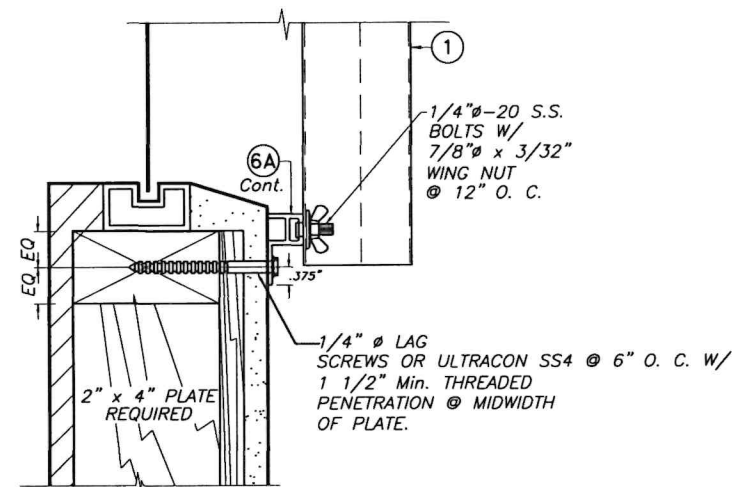
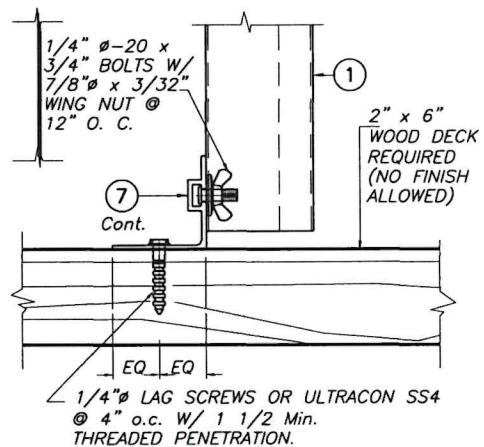
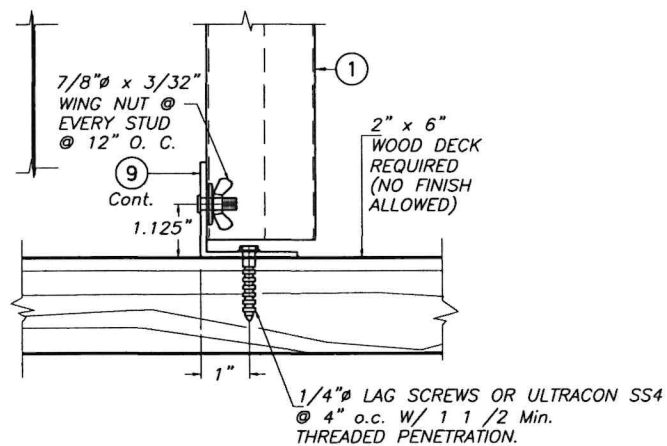
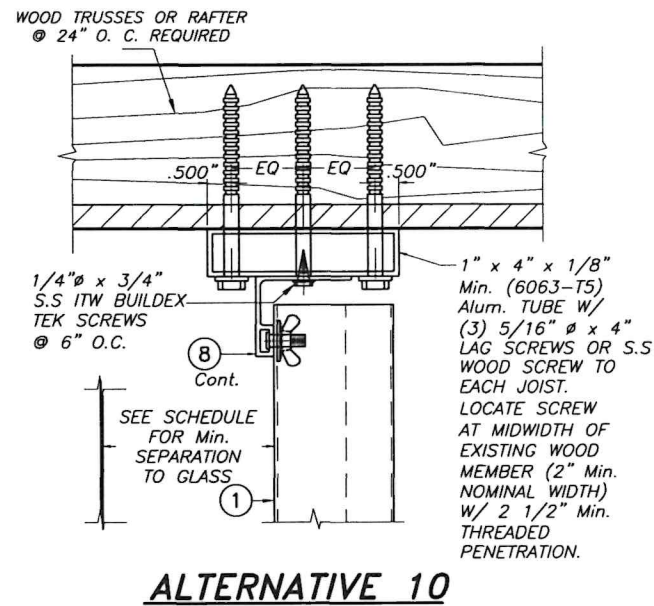
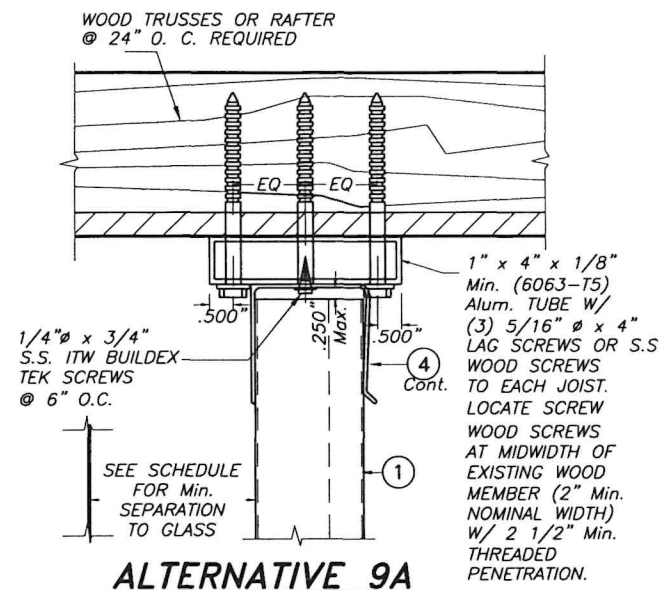
W.H.
DRAWN BY:

DATE: /24/2026

6-232

SHEET 12 OF 15

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		



ALTERNATIVE 12 *
* VALID FOR Max. +63.5, -63.5 psf.

CEILING & FLOOR MOUNTING INSTALLATIONS

SCALE : 1/4" = 1"

WALL MOUNTING INSTALLATION

SCALE : 1/4" = 1"

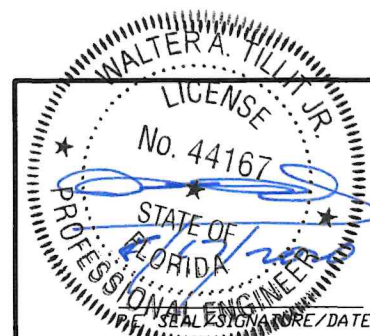
NOTE FOR COMBINATION OF SECTIONS:

WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE
COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING
UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0", EXCEPT AS NOTED.
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.



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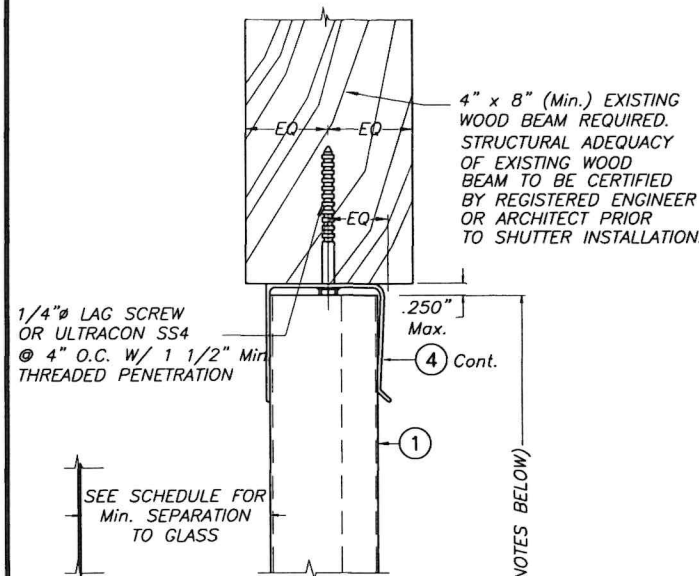
7/24/2026
DATE:

26-232

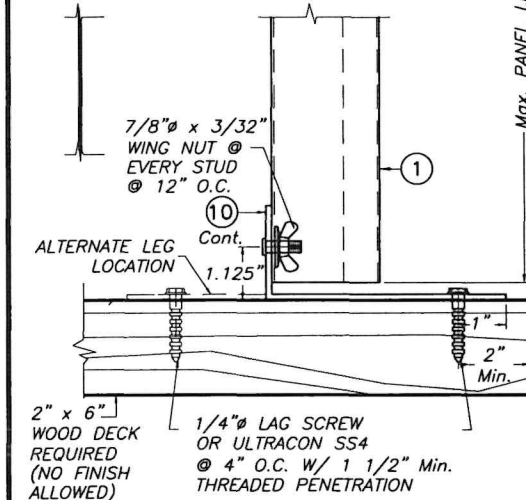
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 13 OF 15



ALTERNATIVE 15



ALTERNATIVE 16 *

CEILING & FLOOR MOUNTING INSTALLATIONS

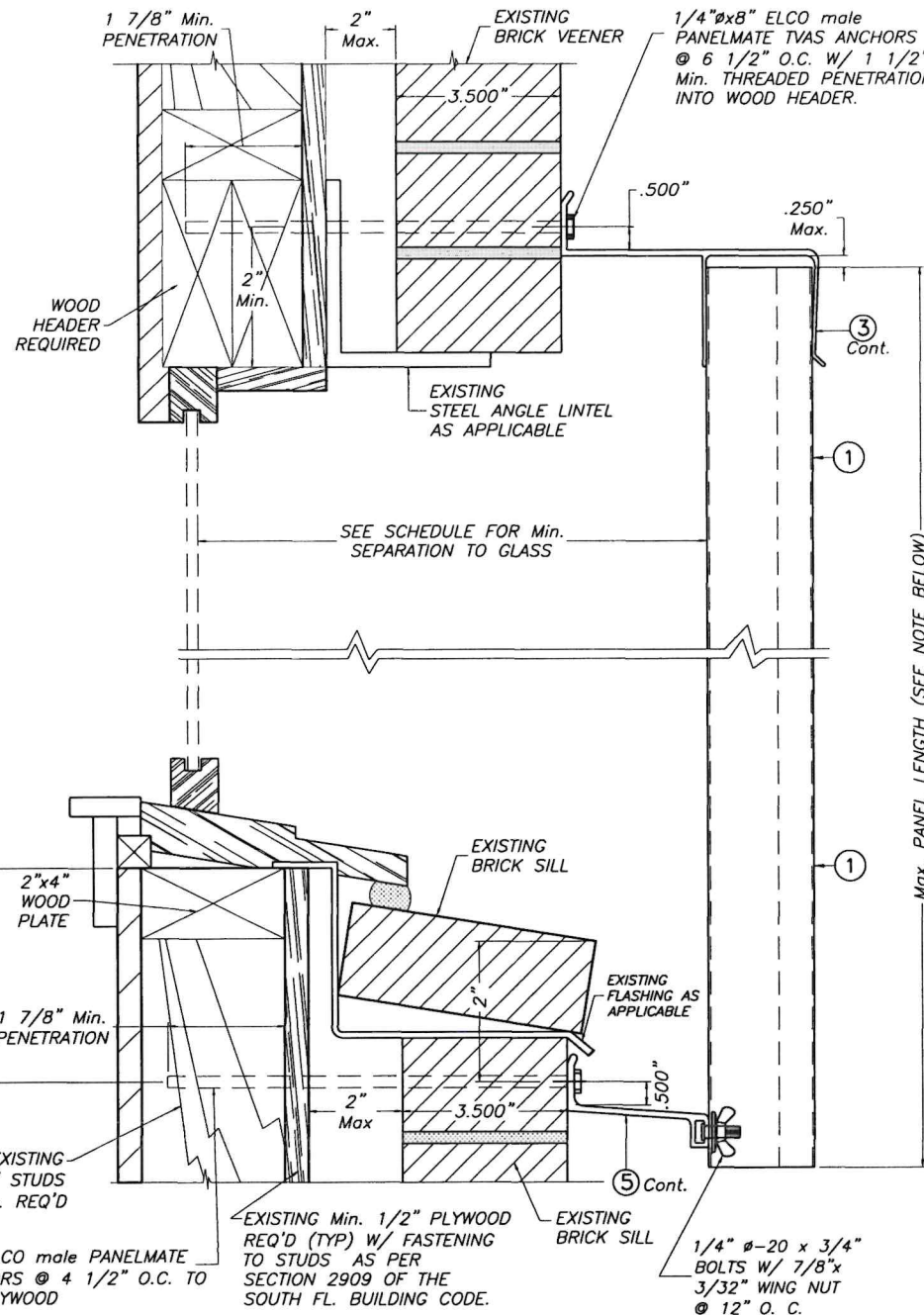
SCALE : 1/4" = 1"

NOTE FOR COMBINATION OF SECTIONS:

WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0", EXCEPT AS NOTED.
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.



ALTERNATIVE 17 *

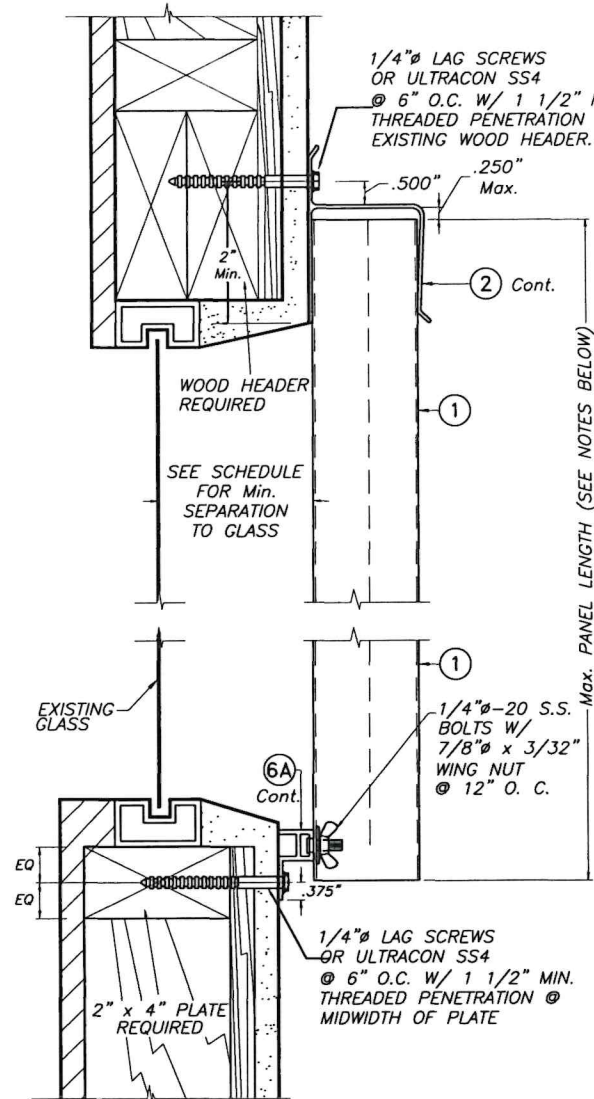
* VALID FOR Max. +63.5, -63.5 psf. A.S.D. DESIGN PRESSURE RATING.

BUILD-OUT INSTALLATION **

SCALE : 1/4" = 1"

** ONLY VALID FOR INSTALLATIONS AT MORE THAN 300ft OF THE COASTAL SHORELINE.

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



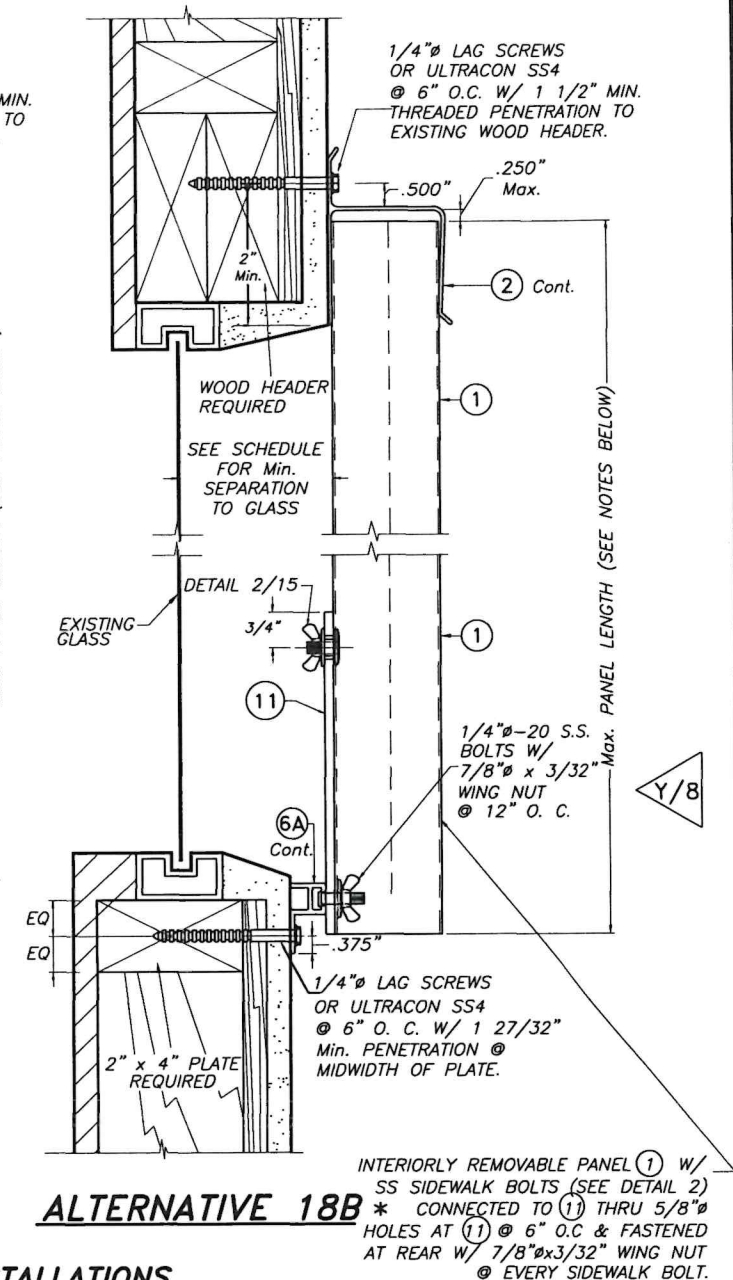
ALTERNATIVE 18A *

WALL MOUNTING INSTALLATIONS

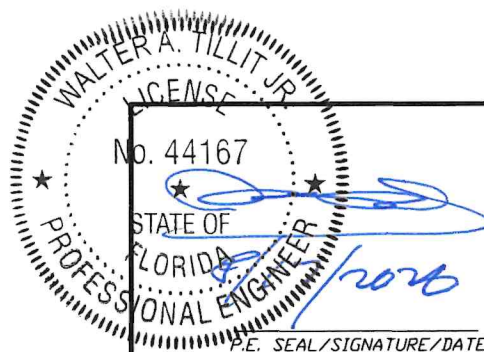
SECTIONS 18

* VALID FOR Max. +63.5, -63.5 psf. A.S.D. DESIGN PRESSURE RATING.

INSTALLATIONS VALID FOR PANELS ① USED JOINTLY WITH INTERIORLY REMOVABLE PANELS ①



ALTERNATIVE 18B *



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

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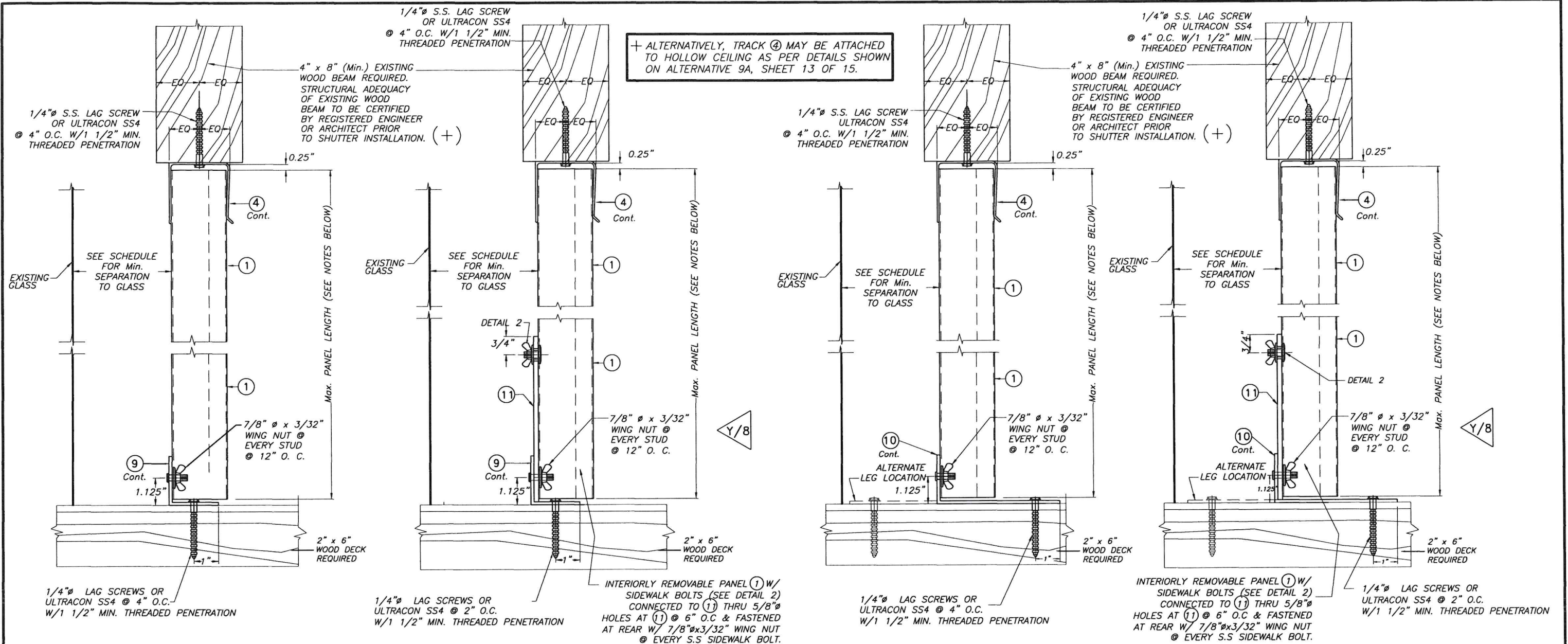
7/24/2026
DATE:

26-232

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-158	7/24/26	3		
2			4		

SHEET 14 OF 15



INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

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