

1. ALUMINUM COLONIAL SHUTTER SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. THIS ALUMINUM COLONIAL SHUTTER SHALL **NOT** BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI DADE/ BROWARD COUNTY).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 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 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 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 NOTE 2 BELOW.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. HOWEVER, FOR CONNECTIONS INTO WOOD, A 1.60 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREWS SPACINGS.

ALUMINUM COLONIAL SHUTTERS ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER AMERICAN TESTING LAB OF SOUTH FLORIDA REPORT # 1120.01-07, AS PER ASTM E 1886-05, ASTM E 1996-05 AND ASTM E 330-02 STANDARDS. QUALIFIED FOR WIND ZONES 1, 2 & 3, MISSILE TYPE D, AND FOR INSTALLATIONS AT NON ESSENTIAL FACILITIES AS DEFINED BY SECTIONS 6.2.1.1, 6.2.1.2 AND 8.3 OF ASTM E 1996-05.

2. SEE ELEVATIONS ON SHEETS 3 & 9 FOR MAX. A.S.D. DESIGN PRESSURE RATING & MAX. SHUTTER DIMENSIONS.

3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y = 25.0$ ksi MINIMUM (UNLESS OTHERWISE NOTED).

4. ALL SHEET METAL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES WITH 50 KSI YIELD STRENGTH AND 90 KSI TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018. ALL MACHINE SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES WITH 36 KSI YIELD STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

5. BOLTS TO BE AISI 304 SERIES STAINLESS STEEL WITH 36 ksi MINIMUM YIELD STRENGTH.

6. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.

7. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

(A) TO EXISTING WOOD FRAME BUILDING: SOUTHERN PINE No.2, G=0.55.
- 1/4" Ø TAPCONS AS MANUFACTURED BY ITW/BULDEX.

A.1) MINIMUM THREADED PENETRATION OF TAPCON ANCHORS INTO WOOD SHALL BE 1 1/2".

A.2) 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 A.1).

(B) TO EXISTING POURED CONCRETE (MIN. $f'_c=3350$ psi):

- 1/4" Ø S.S. CRETE-FLEX TAPCONS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

B.1) MINIMUM EMBEDMENT OF S.S. CRETE-FLEX TAPCONS INTO THE POURED CONCRETE SHALL BE 1 3/4".

B.2) 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 B.1).

(c) TO EXISTING CONCRETE BLOCK WALL, ASTM C-90:
- 1/4" Ø S.S. CRETE-FLEX TAPCONS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:
C.1) MINIMUM EMBEDMENT OF S.S. CRETE-FLEX TAPCONS INTO THE POURED CONCRETE SHALL BE 1 1/4".

C.2) 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 C.1).

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

8. EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH STORM BARS & WASHERED WING NUTS DURING PERIODS OF HURRICANE WARNINGS.

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. CONTRACTOR TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.

10. OWNER TO BE RESPONSIBLE FOR PROVIDING A SUITABLE PLATFORM OR BALCONY WHEN SECURING UNIT DURING HURRICANE WARNINGS.

11. ALUMINUM COLONIAL SHUTTER'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURSDICTION WHERE PERMIT IS APPLIED TO.

12. (c) 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.

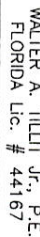
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS PRODUCT EVALUATION DOCUMENT, PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

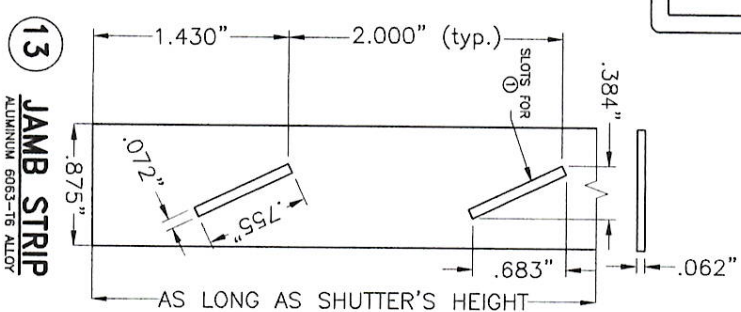
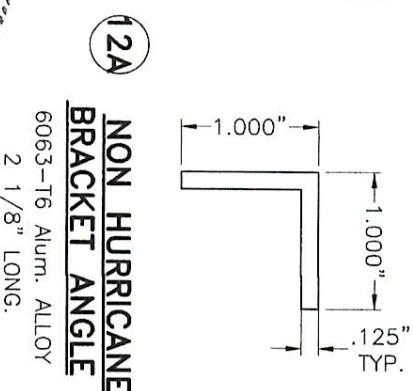
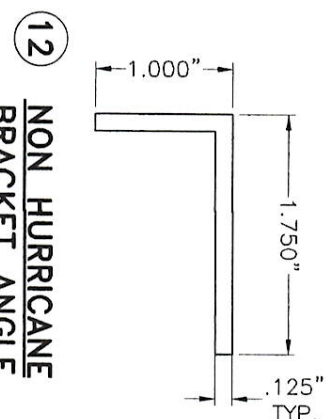
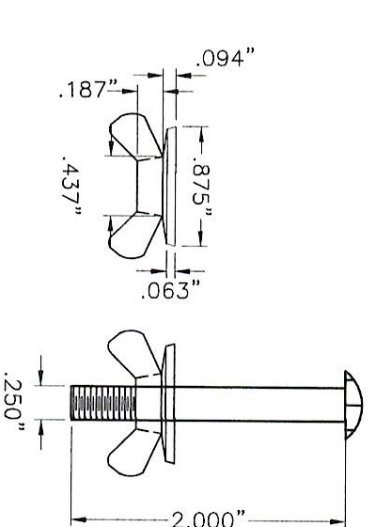
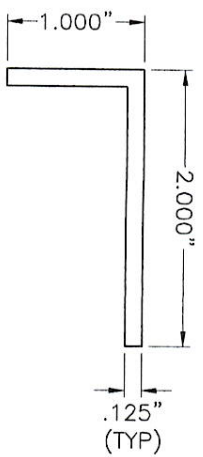
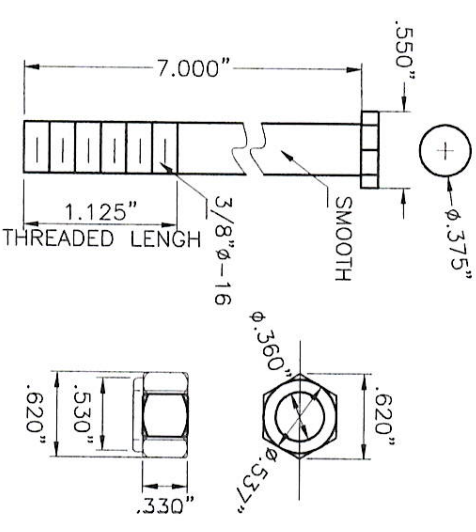
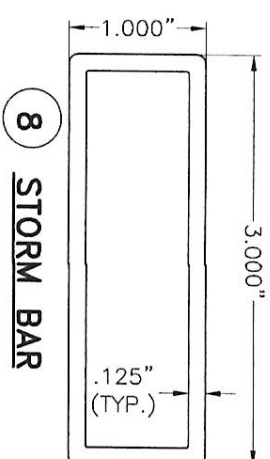
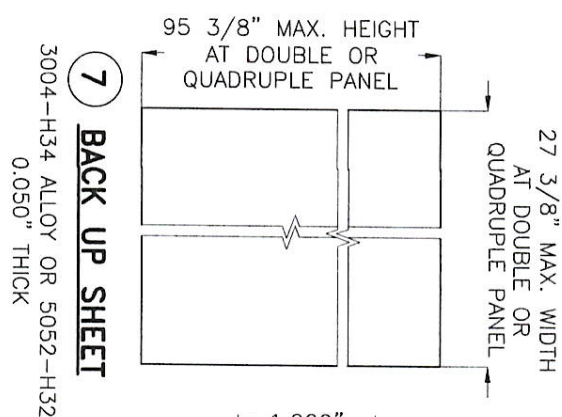
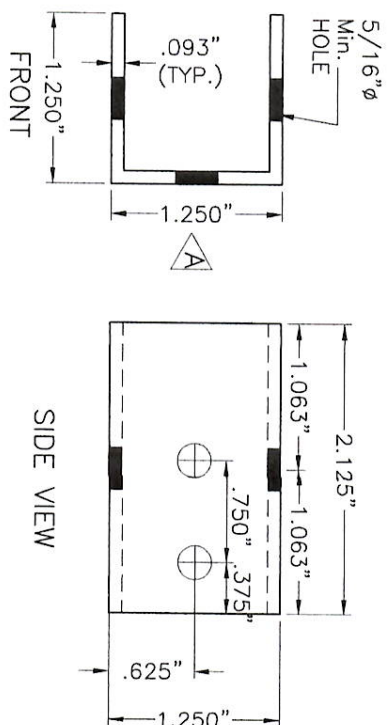
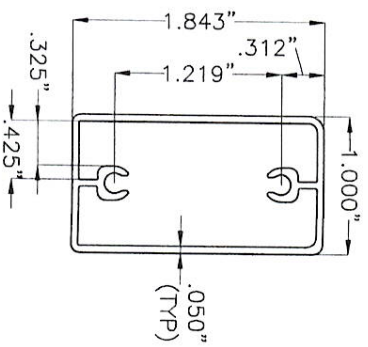
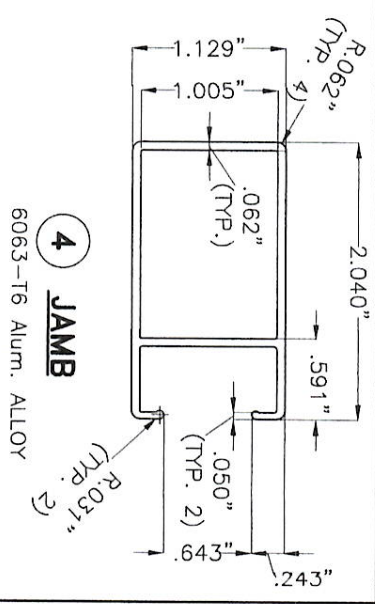
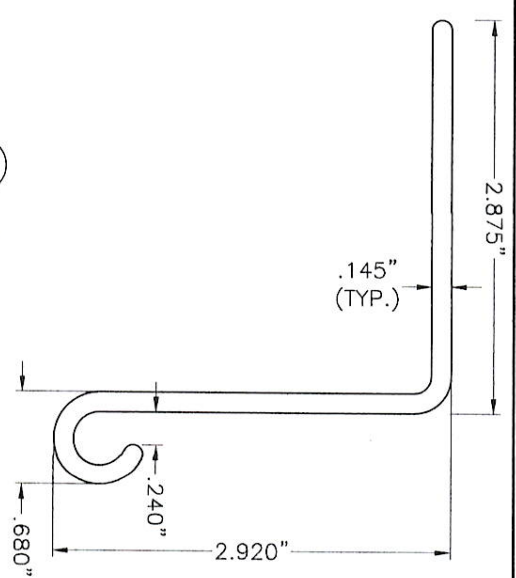
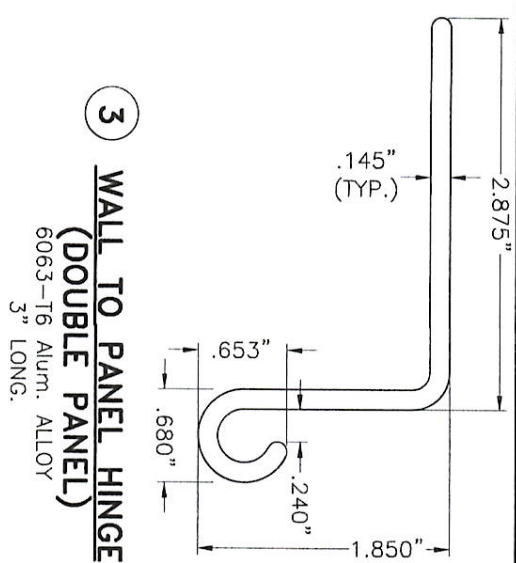
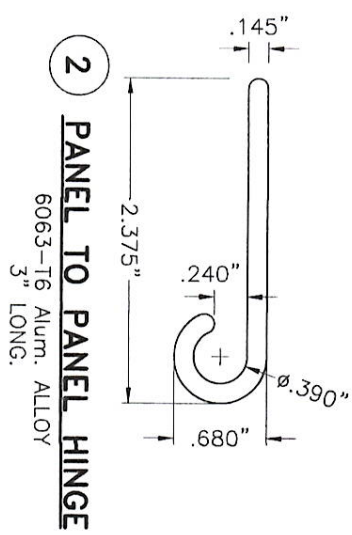
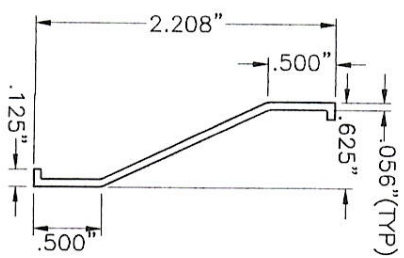
(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT 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.

13. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT 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.

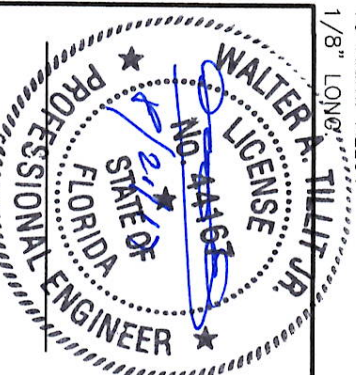


L.C. DRAWN BY:				
ALUMINUM COLONIAL SHUTTER				
EASTERN METAL SUPPLY, INC 4268 WESTROADS DRIVE WEST PALM BEACH, FL 33407 Phone: (800)432-2204 . Fax: (561)209-8380				
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION
1	OLD 15-168	08/11/17	3	
2			4	
17-093 DRAWING No		09/11/17 DATE		
SHEET 1 OF 1				



COMPONENTS

SCALE: 3/4" = 1"



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

ALUMINUM COLONIAL SHUTTER

L.C.
DRAWN BY:

TILECO inc.

TILIT TESTING & ENGINEERING COMPANY
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Phone: (706) 987-4570 Fax: (706) 987-4574

EB-0006719
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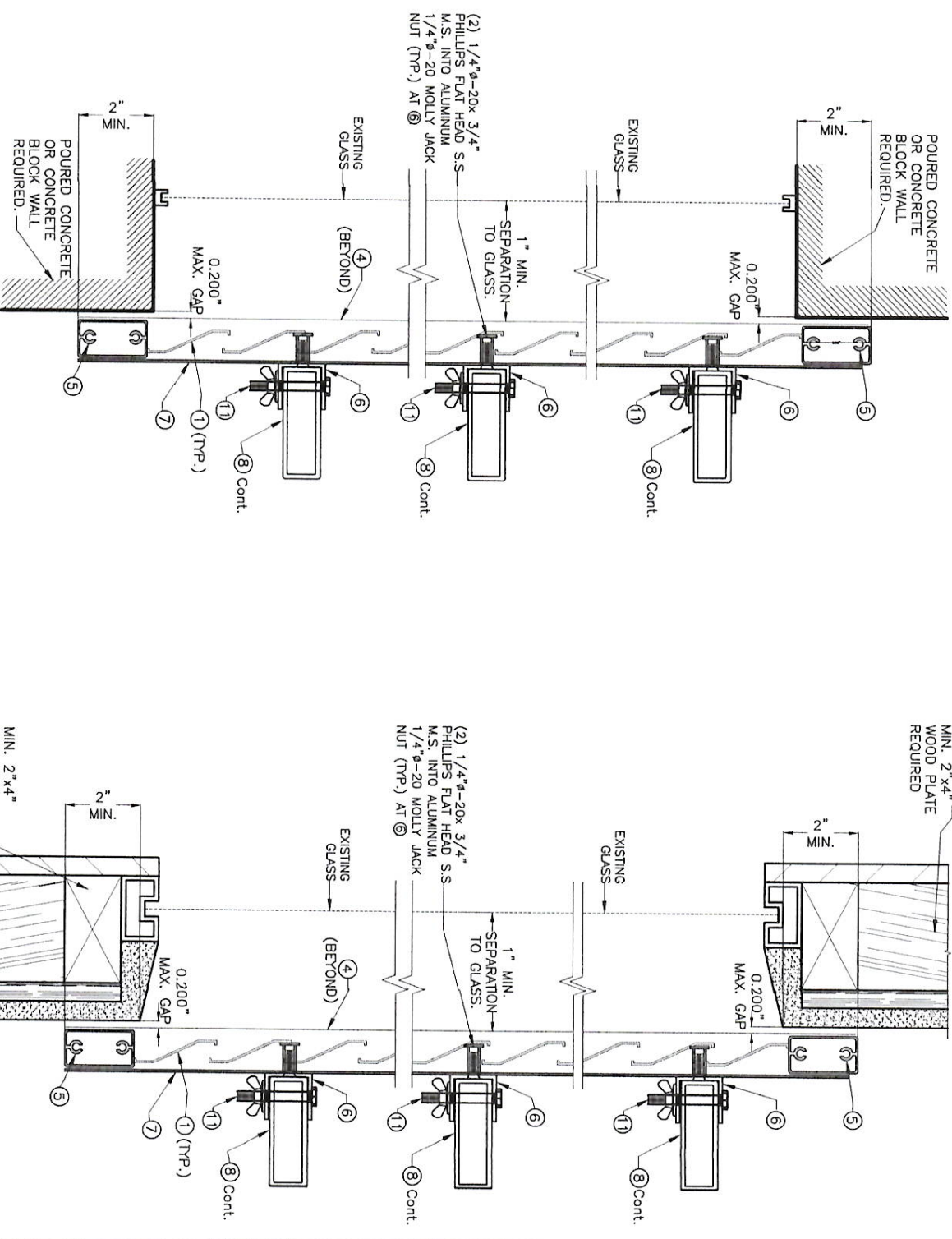
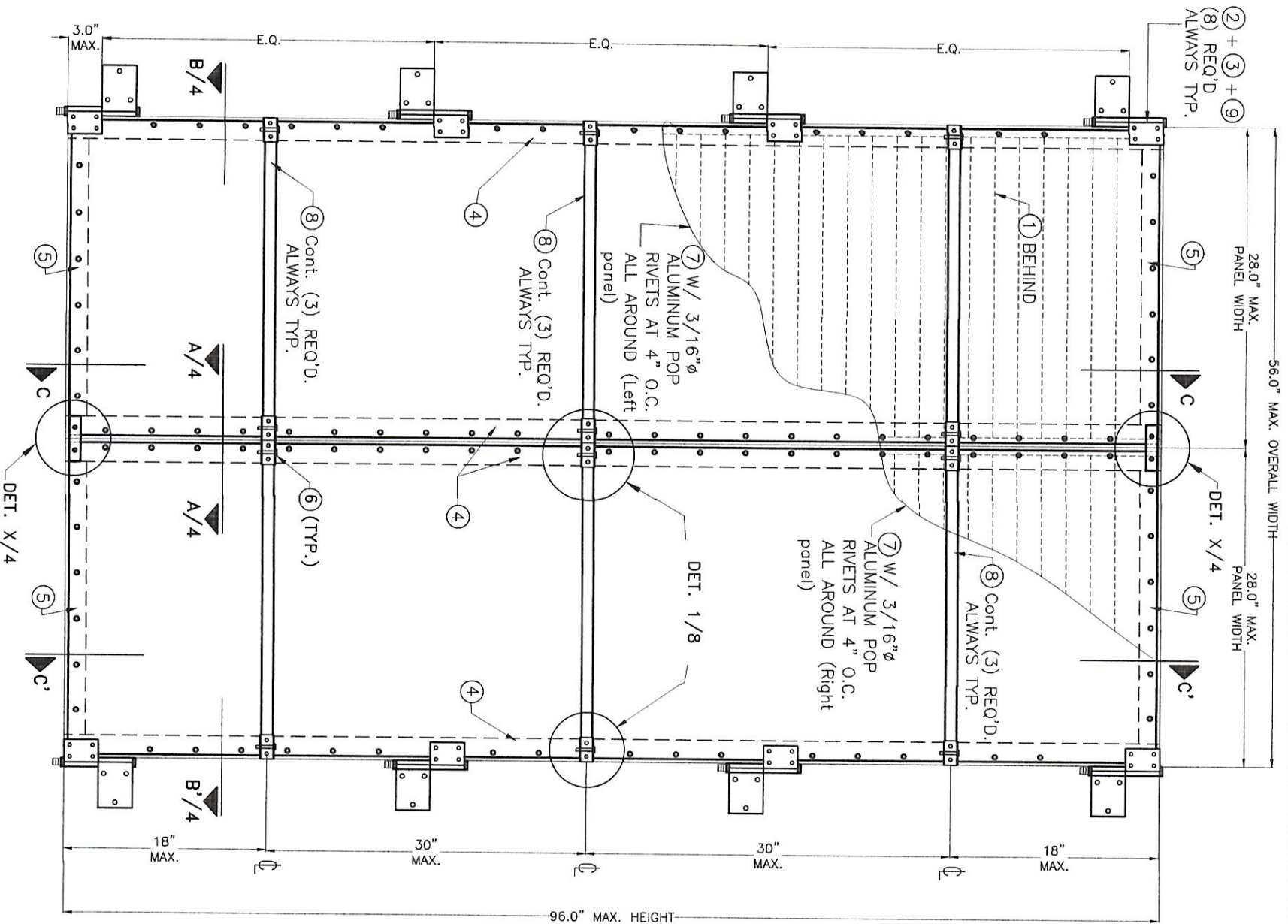
08/11/17
DATE

DRAWING NO

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DRAWING No

SHEET 2 OF 14



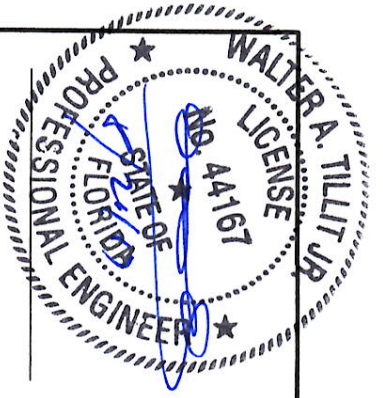
SECTION C - C

(WALL MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"

SECTION C' - C'

(WALL MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"

MAXIMUM A.S.D. DESIGN PRESSURE
RATING = +42, -53 psf.



P.E. SEAL/SIGNATURE/DATE

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Phone: (800)432-2204 Fax: (561)209-6380

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08/11/17
DATE

17-093
DRAWING No

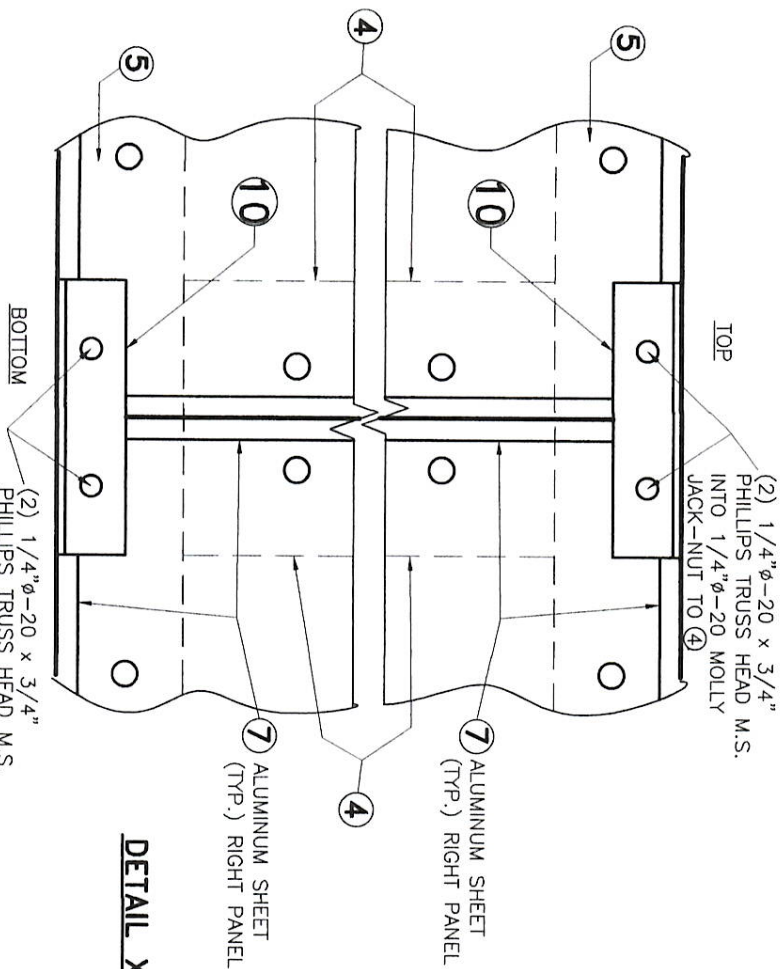
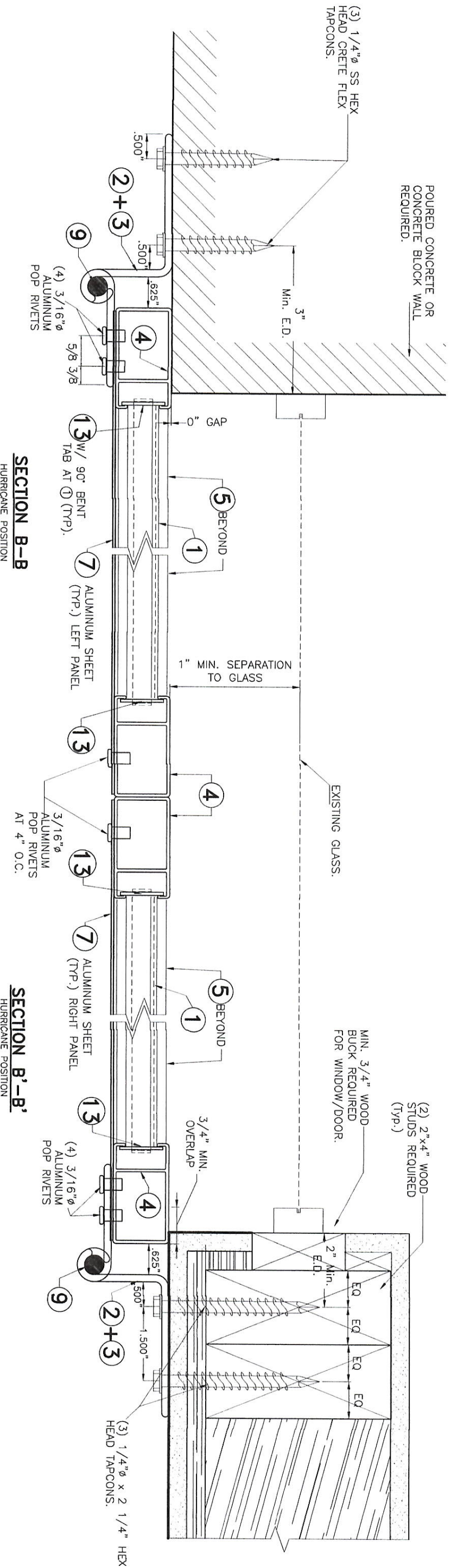
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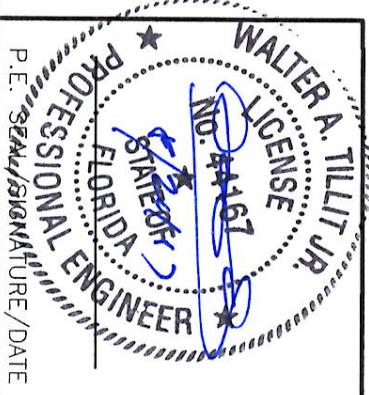
SHEET 3 OF 14

TYPICAL EXTERIOR ELEVATION DOUBLE PANEL
FOR POURED CONCRETE, CONCRETE BLOCK & WOOD.
(HURRICANE POSITION)

SCALE : 1" = 1'-0"



DETAIL X (ELEVATION)



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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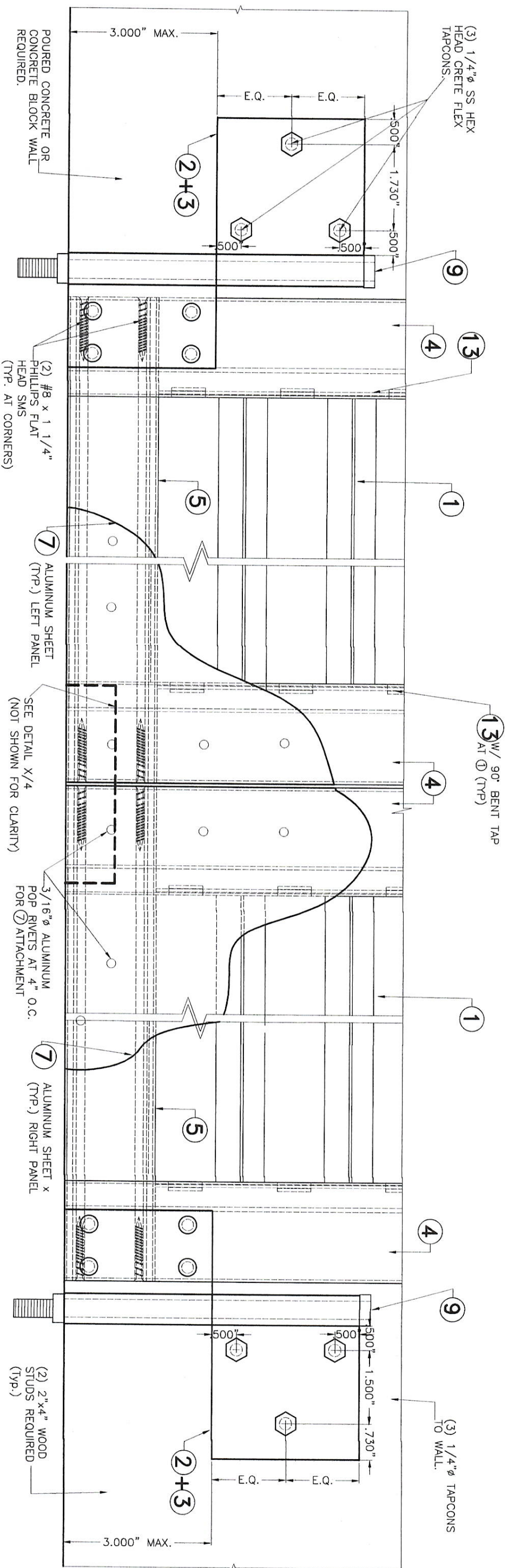
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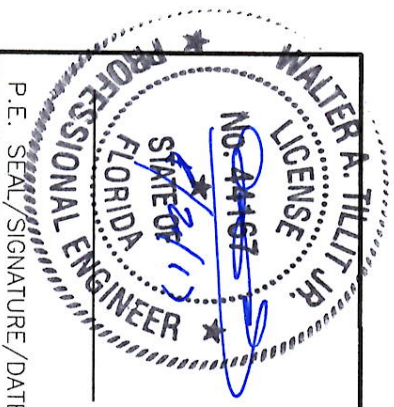
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DRAWN BY:

08/11/17
DATE

SHEET 4 OF 14



VIEW 1 (PARTIAL ELEVATION)
N.T.S.



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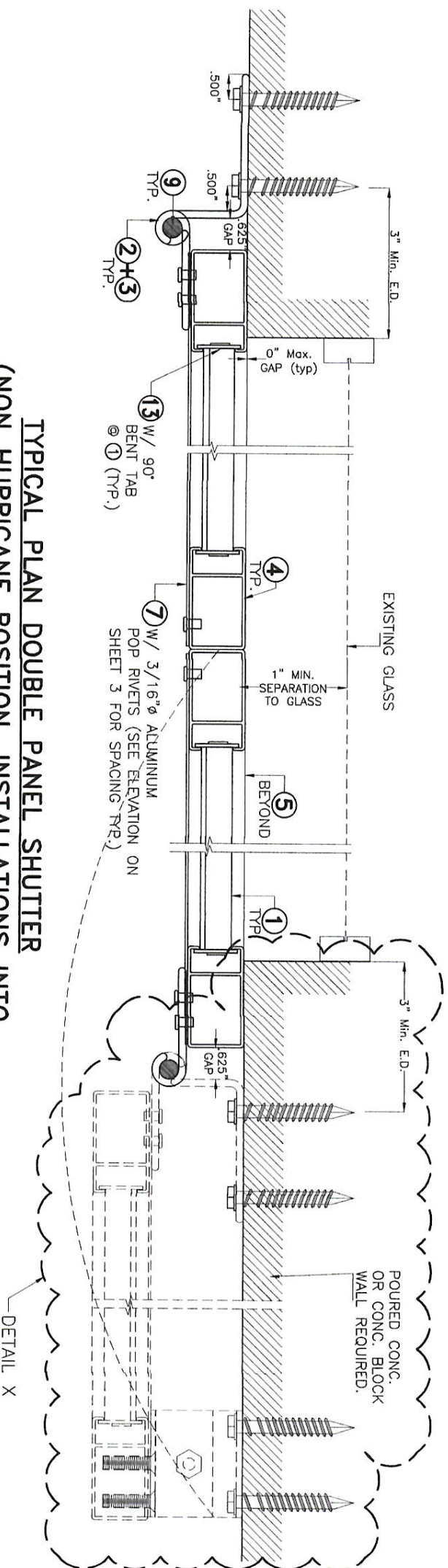
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DATE

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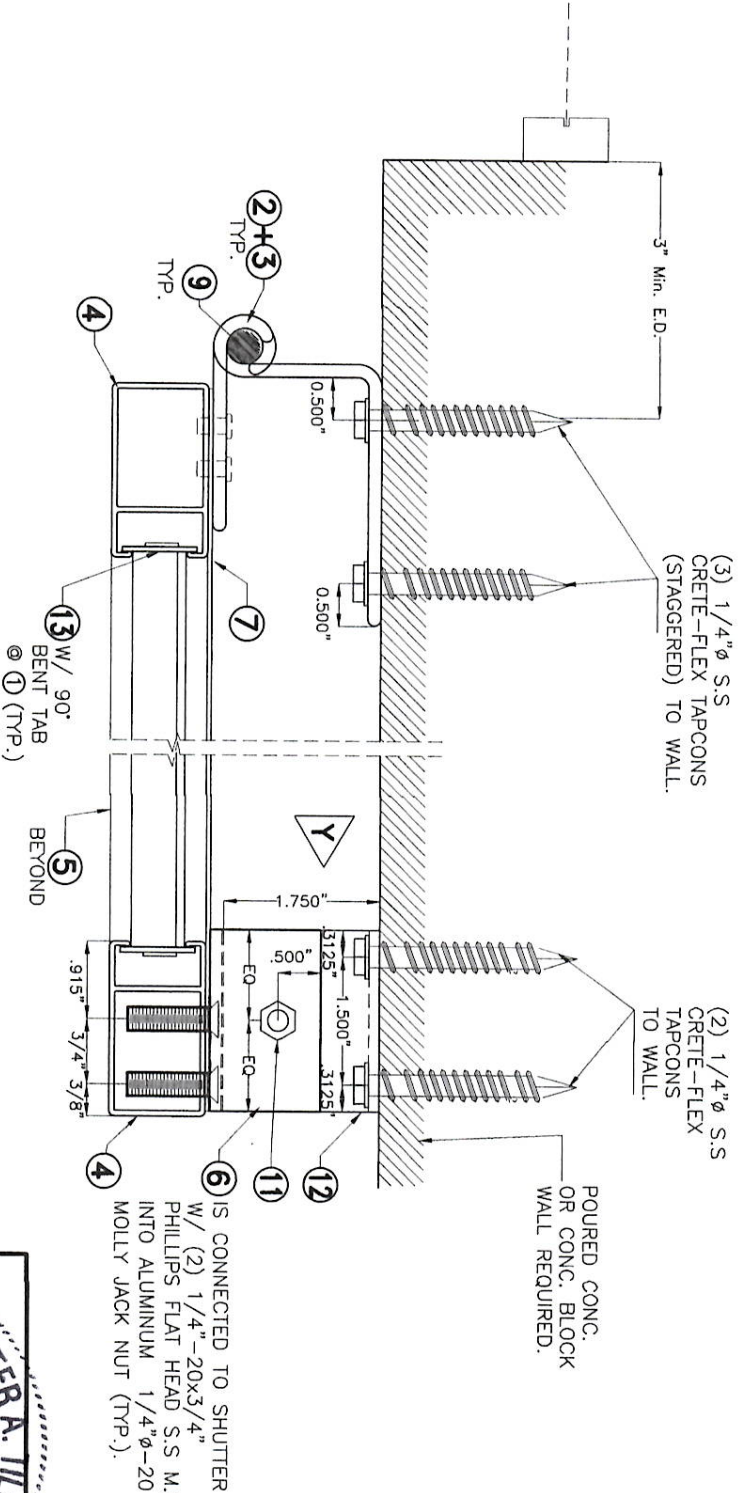
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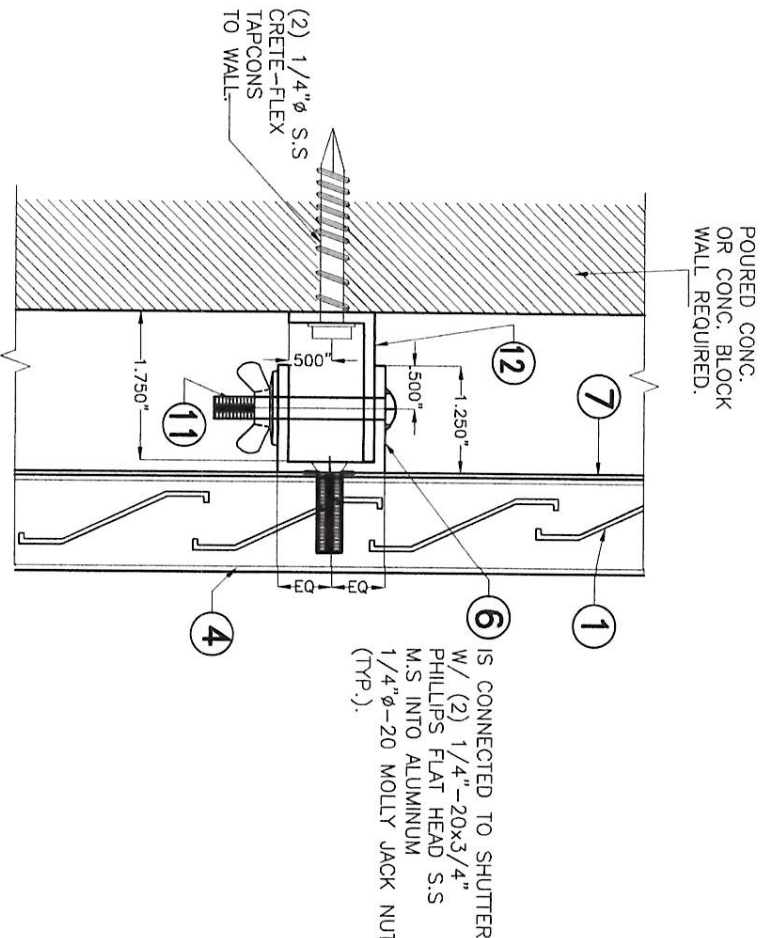
**TYPICAL PLAN DOUBLE PANEL SHUTTER
(NON HURRICANE POSITION, INSTALLATIONS INTO
POURED CONCRETE OR CONCRETE BLOCK WALL)**

SCALE: 3/8"=1"



DETAIL X (NON HURRICANE POSITION)

SCALE: 1/2"=1"



ELEVATION Y

SCALE: 1/2"=1"

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

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ALUMINUM COLONIAL SHUTTER

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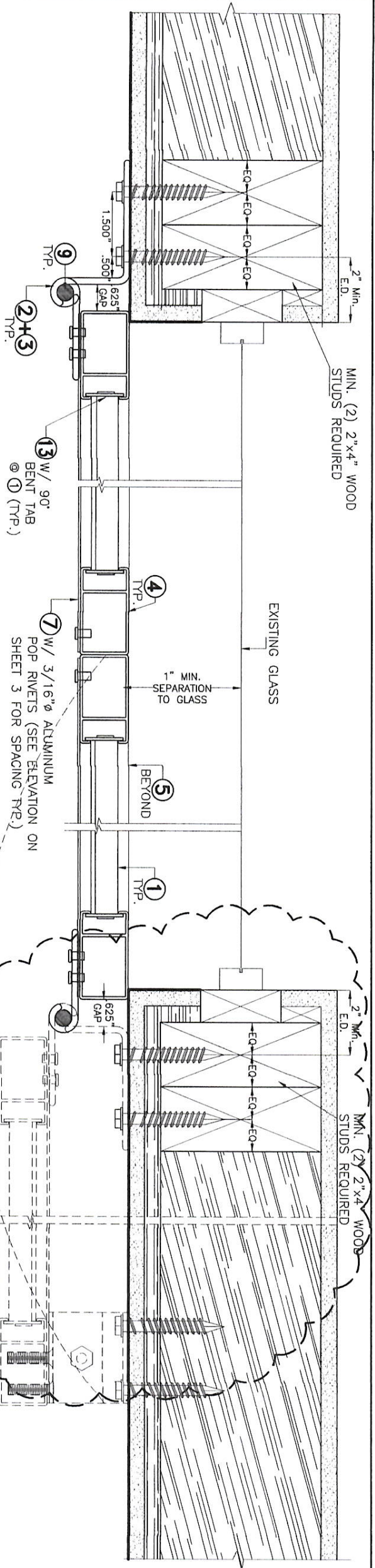
4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
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08/11/17
DATE

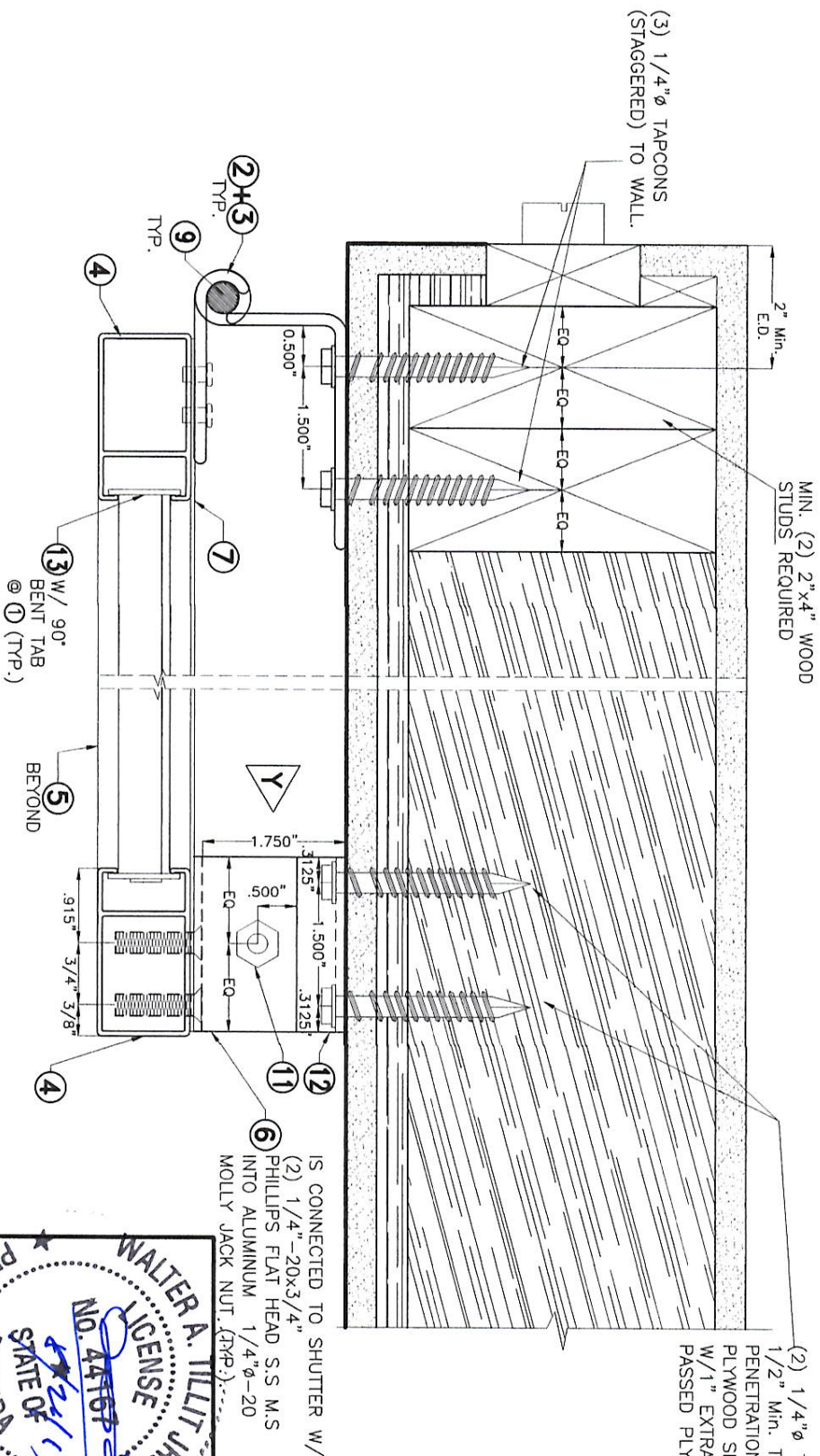
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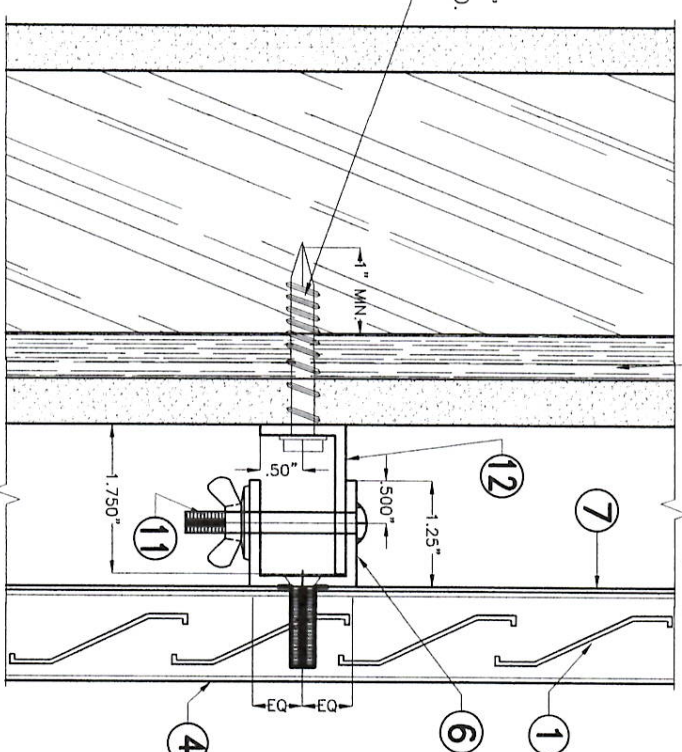
SHEET 6 OF 14



**TYPICAL PLAN DOUBLE PANEL SHUTTER
(NON HURRICANE POSITION, INSTALLATIONS
INTO WOOD FRAME BUILDINGS)**
SCALE: 3/8"=1"

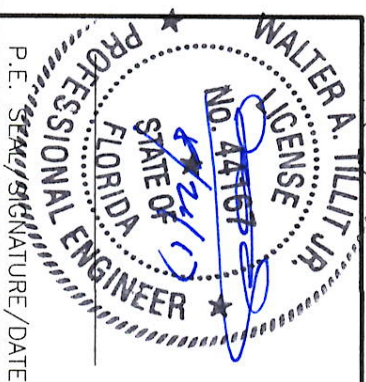


ELEVATION Y
SCALE: 1/2"=1"

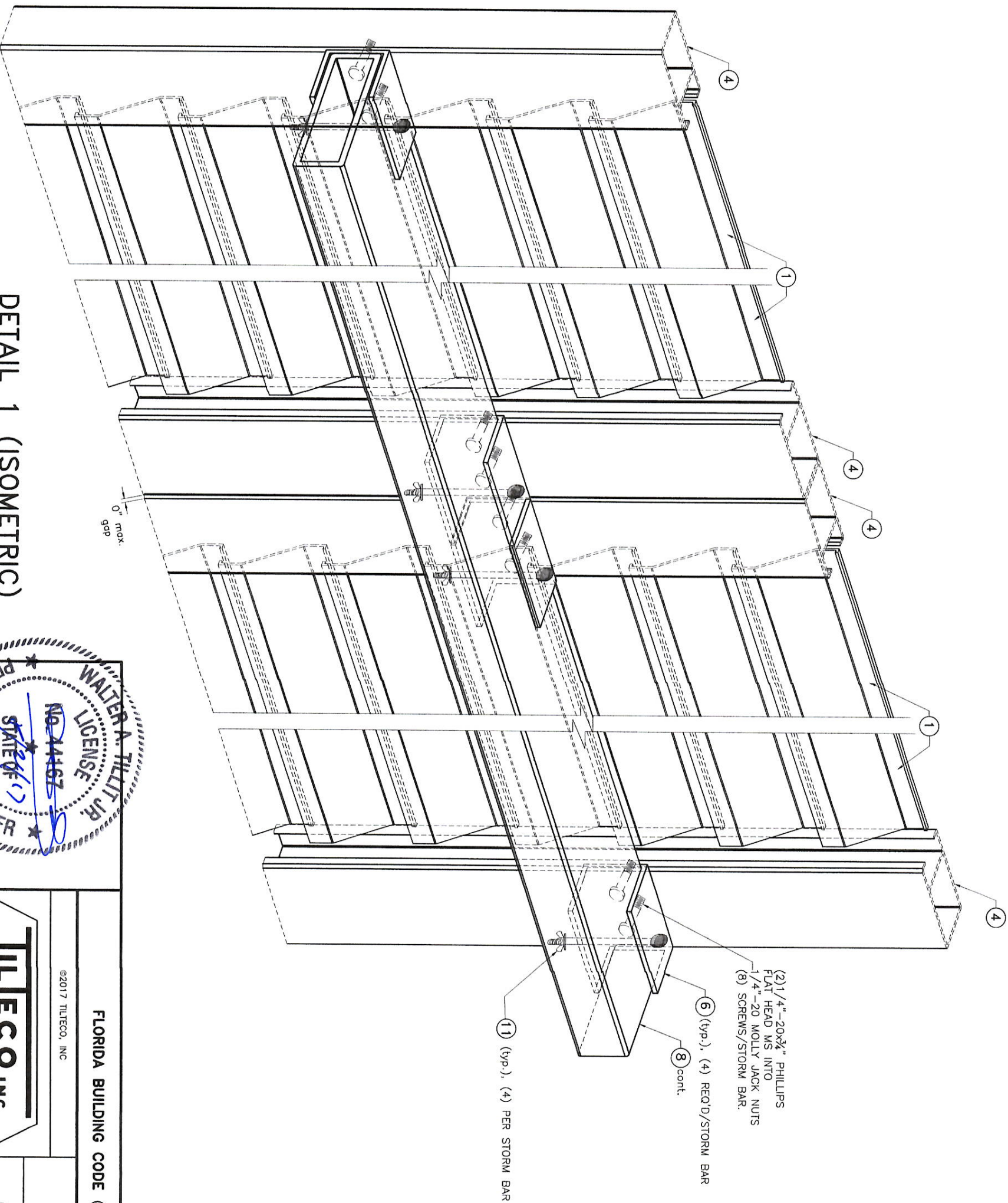


DETAIL X (NON HURRICANE POSITION)

SCALE: 1/2"=1"

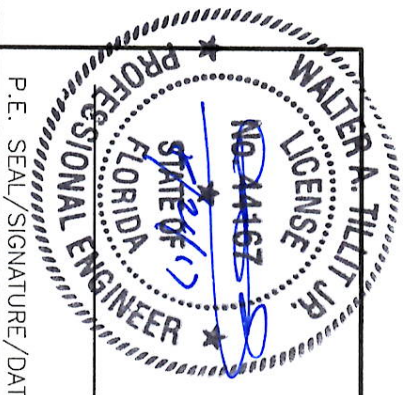


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TILIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305 VERNOIA, OREGON, FLORIDA 33166 Phone: (561)971-1530 Fax: (561)971-1531 e-mail: tiliteco@aol.com EB-0006719 WALTER A. TILIT Jr., P.E. FLORIDA Lic. # 44167		ALUMINUM COLONIAL SHUTTER		L.C. DRAWN BY:	
EASTERN METAL SUPPLY, INC 4268 WESTROADS DRIVE WEST PALM BEACH, FL 33407 Phone: (800)432-2204 Fax: (561)209-8380		08/11/17 DATE		17-093 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-168	08/11/17	3		
2			4		
SHEET 7 OF 14					



DETAIL 1 (ISOMETRIC)

N.T.S



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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

ALUMINUM COLONIAL SHUTTER

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WEST PALM BEACH, FL 33407
Phone: (800)432-2204 . Fax: (561)209-6380

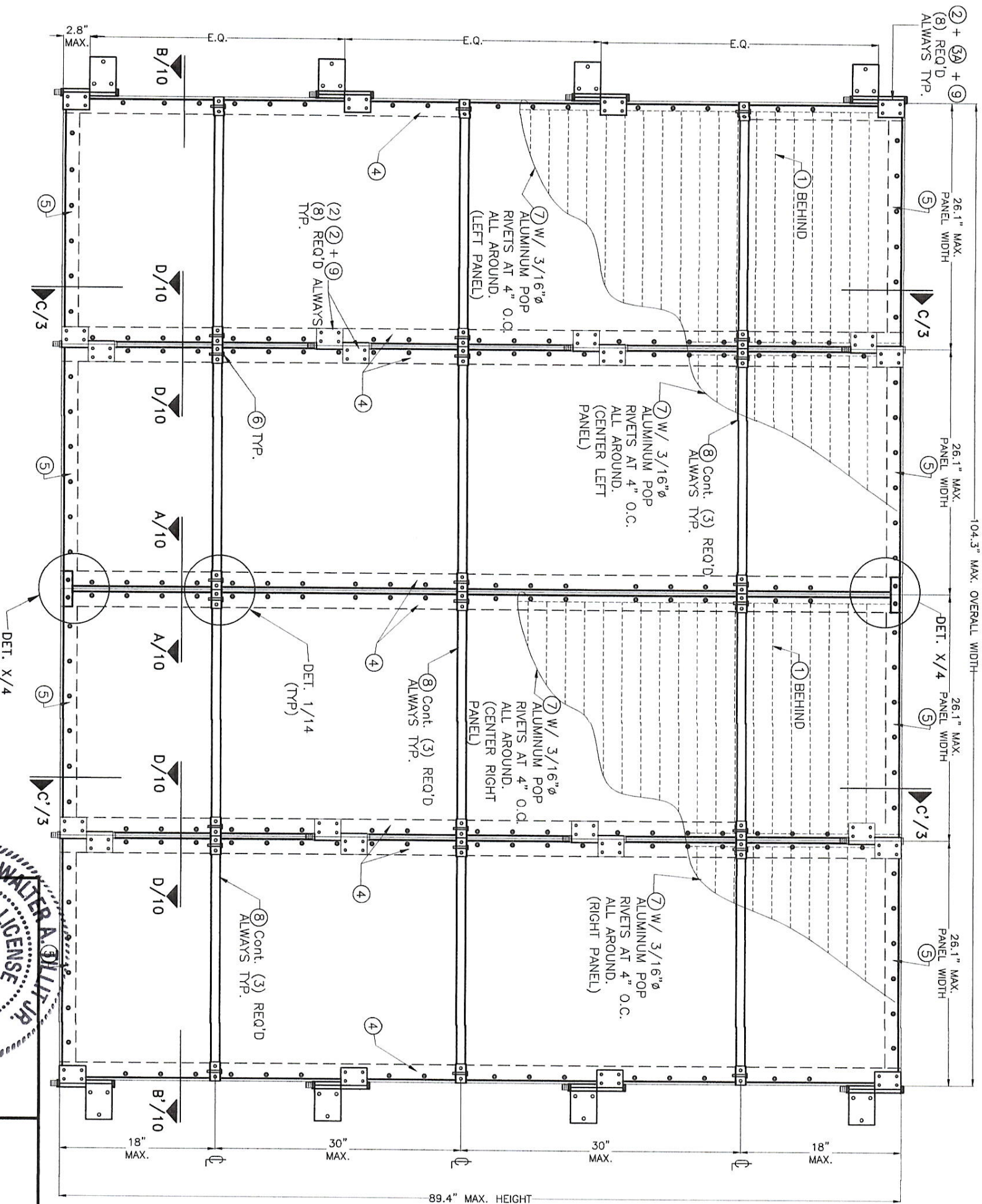
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08/11/17
DATE

17-093
DRAWING No

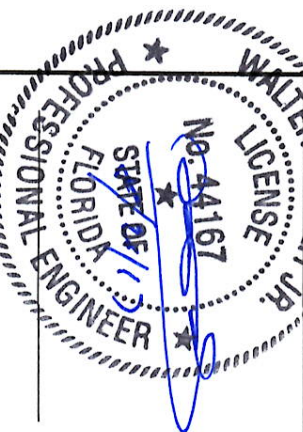
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SHEET 8 OF 14



**TYPICAL EXTERIOR ELEVATION QUADRUPLE PANEL FOR
POURED CONCRETE, CONCRETE BLOCK OR WOOD.
(HURRICANE POSITION)**

SCALE : N.T.S.



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TILIT TESTING & ENGINEERING COMPANY
5355 N.W. 36th St., Suite 305, Miramar, Florida 33166
Phone: (305) 971-1530 Fax: (305) 971-1531
e-mail: tilteco@aol.com

WALTER A. TILLET JR., P.E.
EB-0006719
FLORIDA L.C. # 44167

ALUMINUM COLONIAL SHUTTER

EASTERN METAL SUPPLY, INC

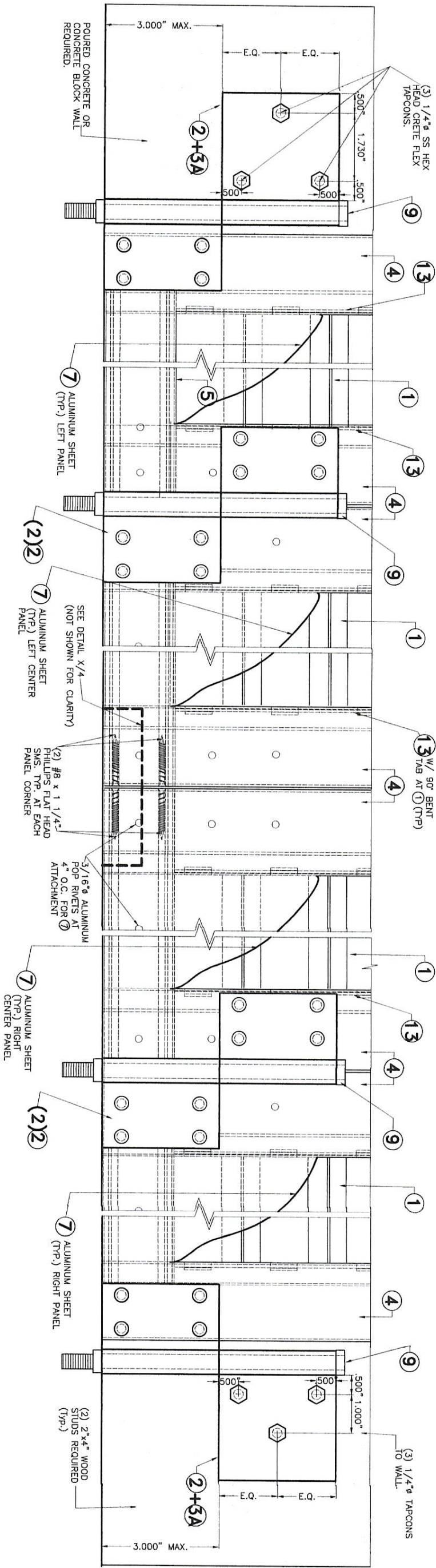
4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
Phone: (800) 432-2204 Fax: (561) 209-8380

L.C.
DRAWN BY:
08/11/17
DATE

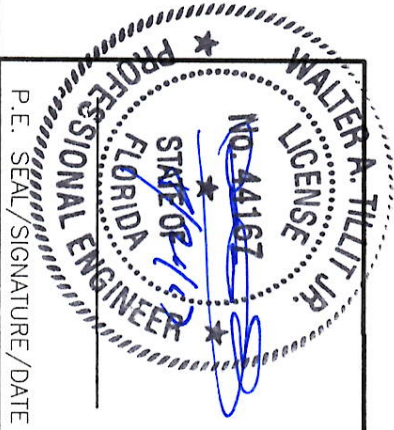
17-093
DRAWING No

REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE
1 OLD 15-168 08/11/17 3
2 SHEET 9 OF 14

**MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
POURED CONCRETE, CONCRETE BLOCK OR WOOD
WALL = +29. -39 psf.**

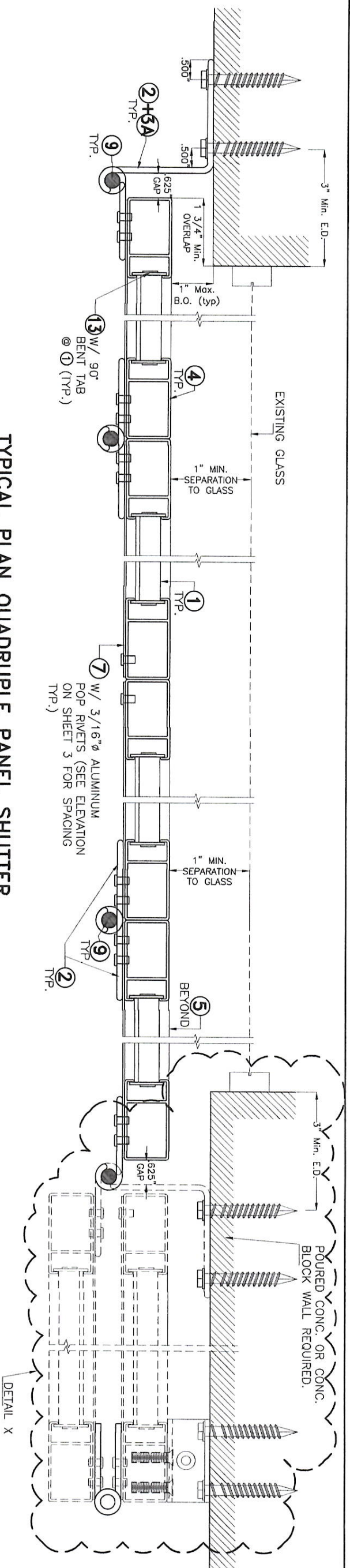


VIEW 1 (PARTIAL ELEVATION)
N.T.S.



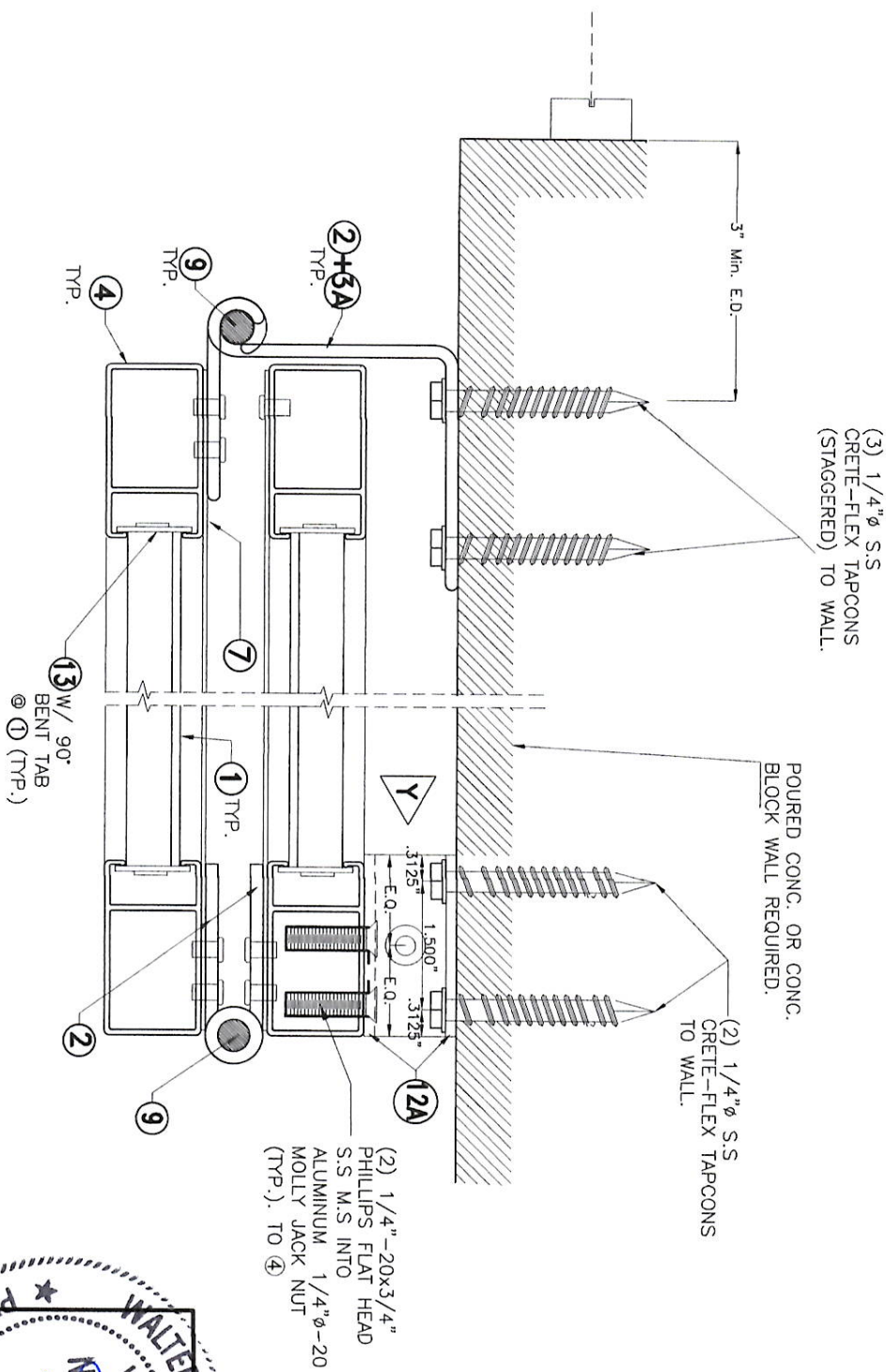
P. E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
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TILTECO INC.					
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VERO BEACH, FLORIDA 33166 Phone : (305)971-1530 • Fax : (305)971-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167					
ALUMINUM COLONIAL SHUTTER					
EASTERN METAL SUPPLY, INC					
4268 WESTROADS DRIVE WEST PALM BEACH, FL 33407 Phone: (800)432-2204 • Fax: (561)209-8380					
L.C. DRAWN BY:					
08/11/17 DATE					
17-093 DRAWING No					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-168	08/11/17	3		
2			4		
SHEET 11 OF 14					



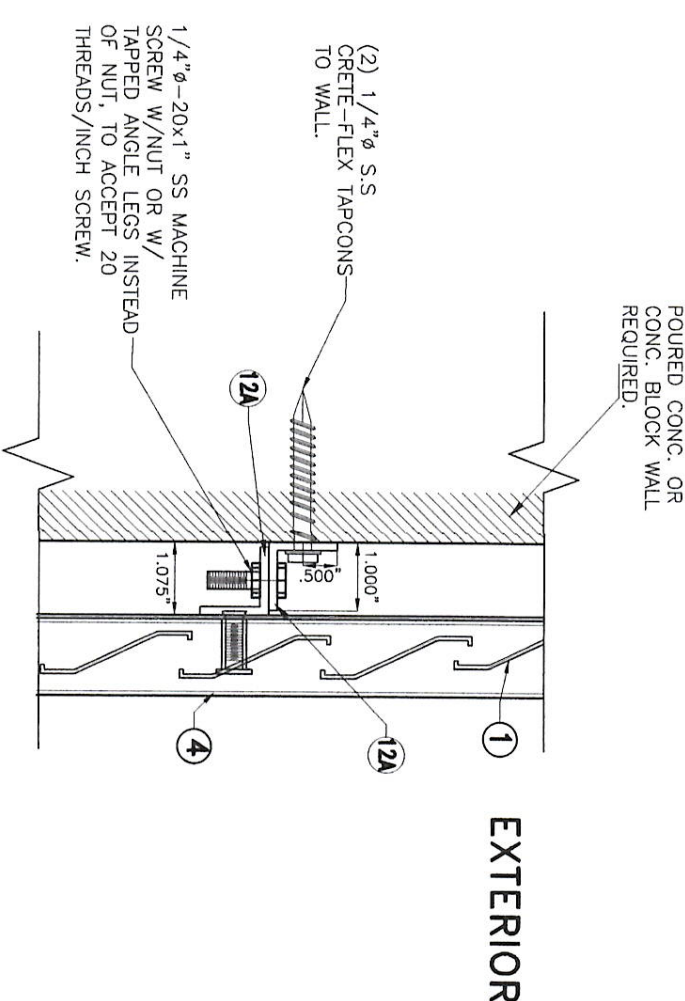
**TYPICAL PLAN QUADRUPLE PANEL SHUTTER
(NON HURRICANE POSITION, INSTALLATIONS INTO
POURED CONCRETE OR CONCRETE BLOCK WALL)**

SCALE: 3/8"=1"



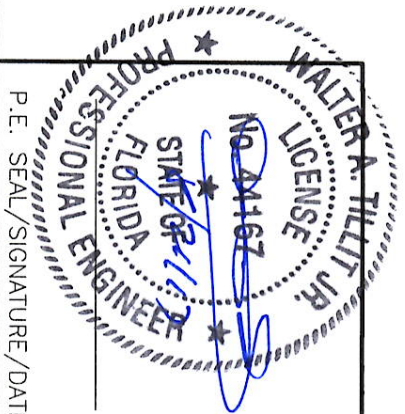
DETAIL X (NON HURRICANE POSITION)

SCALE: 1/2"=1"



ELEVATION Y

SCALE: 1/2"=1"



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ALUMINUM COLONIAL SHUTTER

EASTERN METAL SUPPLY, INC

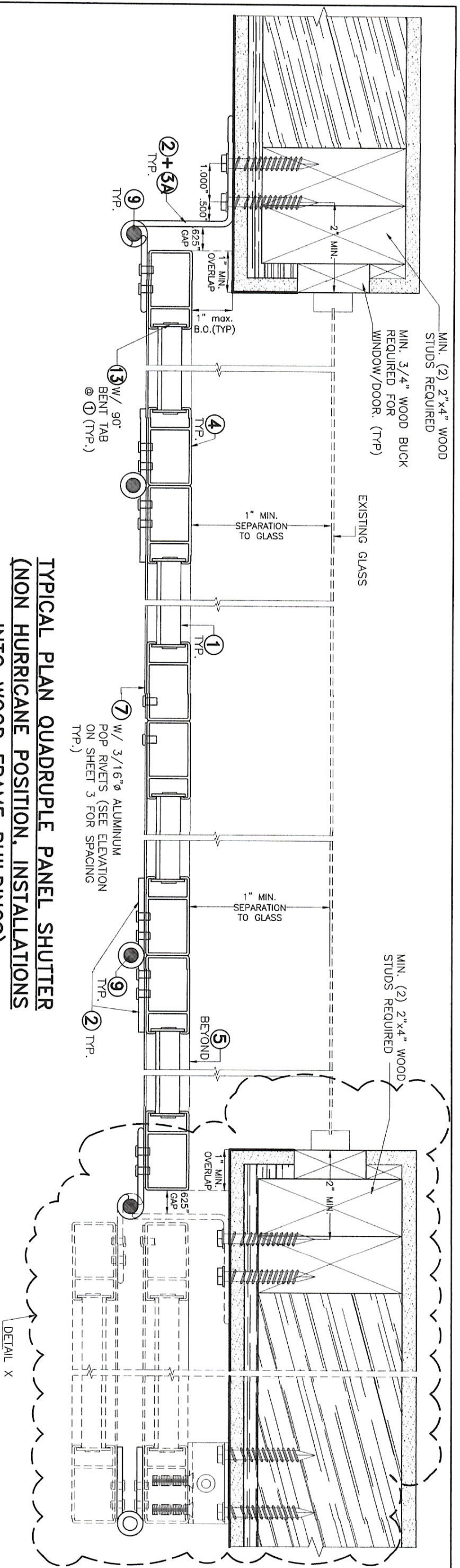
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DATE

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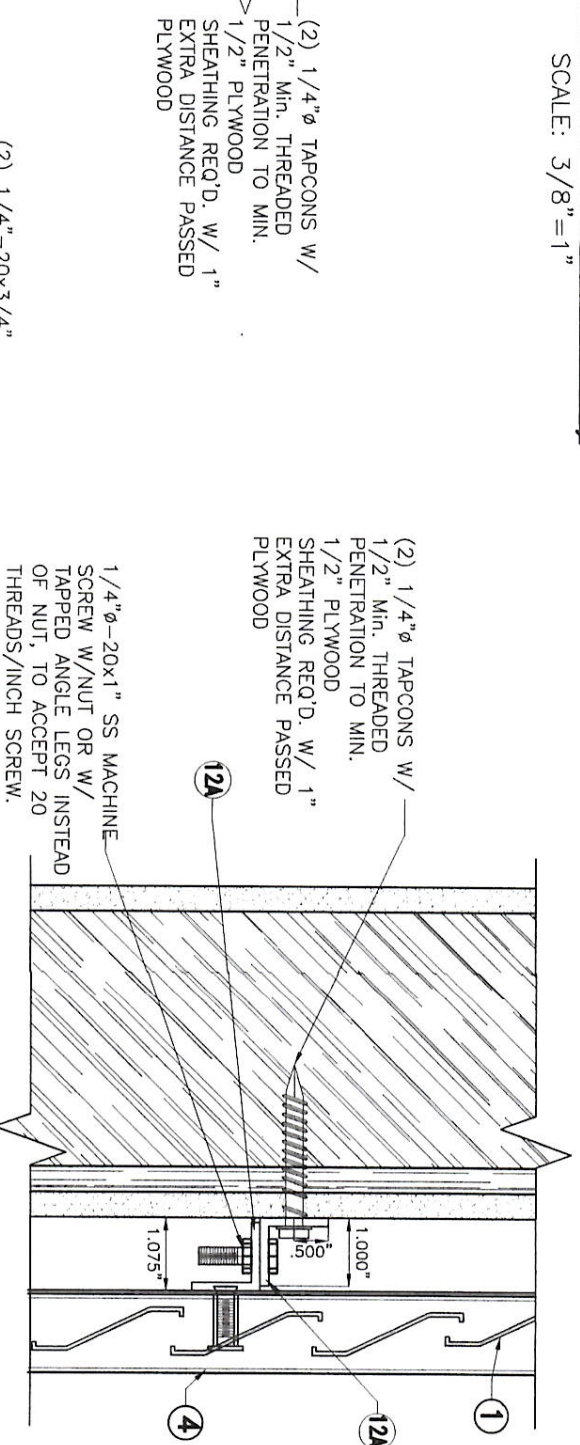
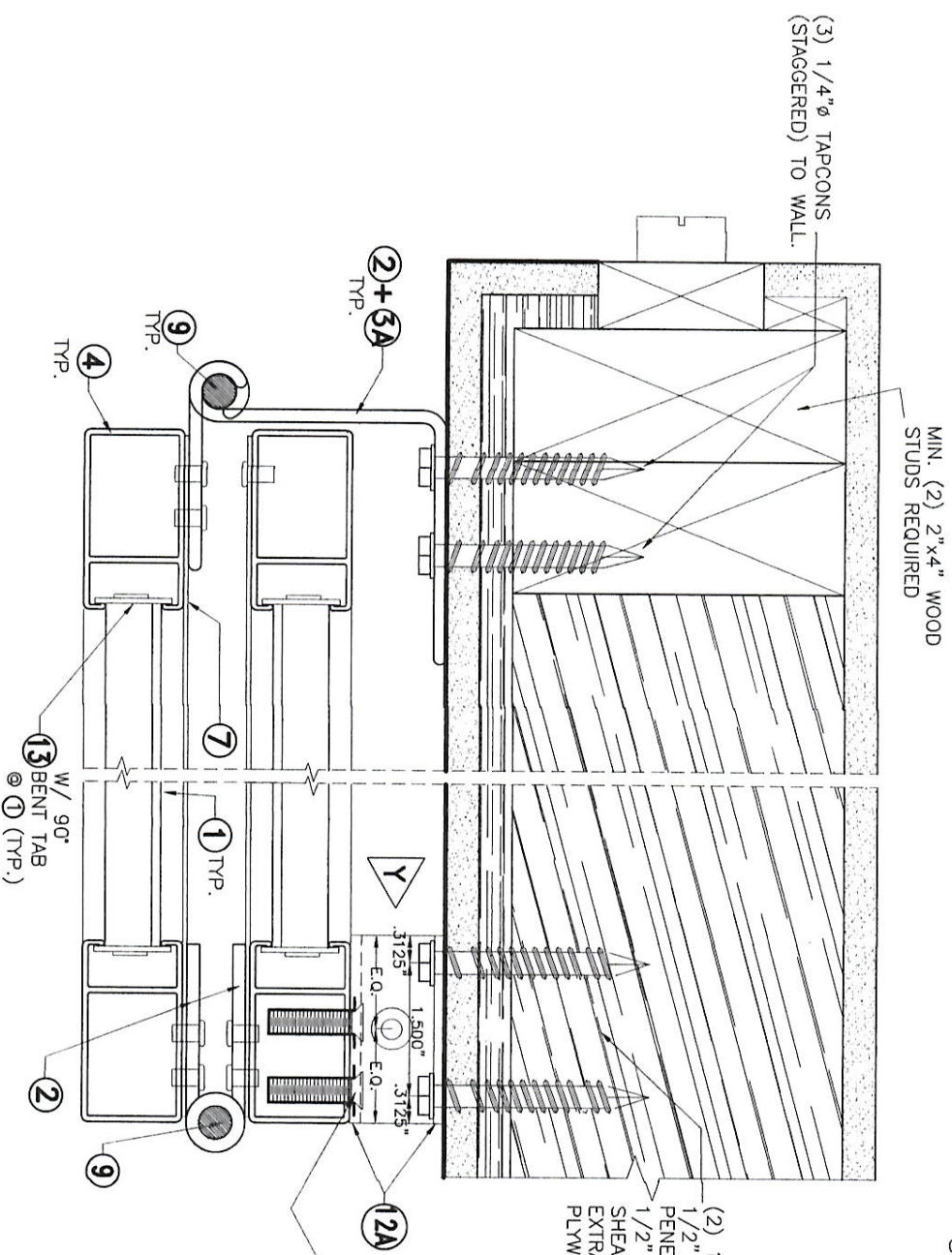
SHEET 12 OF 14

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



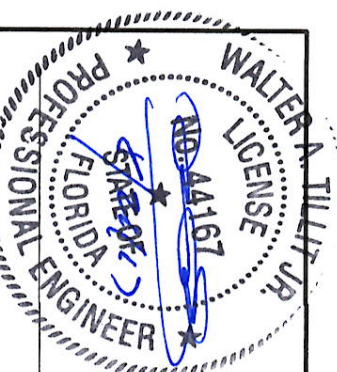
TYPICAL PLAN QUADRUPEL PANEL SHUTTER
(NON HURRICANE POSITION, INSTALLATIONS
INTO WOOD FRAME BUILDINGS)

SCALE: 3/8"=1"



ELEVATION Y

SCALE: 1/2"=1"



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ALUMINUM COLONIAL SHUTTER

EASTERN METAL SUPPLY, INC

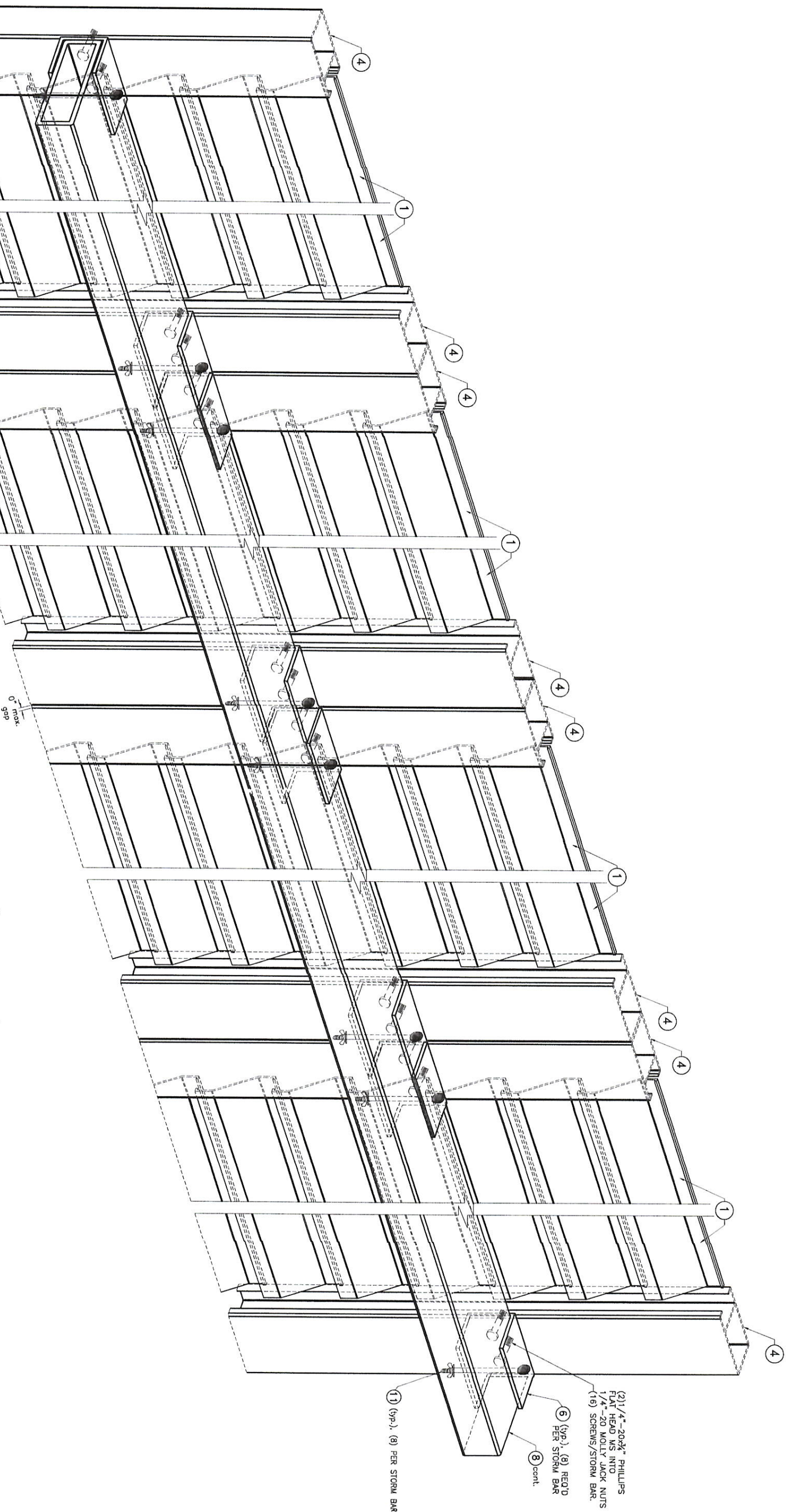
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REV. No	DESCRIPTION	DATE	REV. No
1	OLD 15-168	08/11/17	3
2			4

SHEET 13 OF 14



DETAIL 1 (ISOMETRIC)

N.T.S

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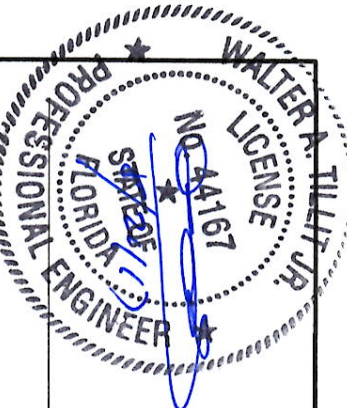
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WEST PALM BEACH, FL 33407
Phone: (800)432-2204 . Fax: (561)209-8380

08/11/17
DATE

17-093
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-158	09/11/17	3		
2			4		

SHEET 14 OF 14



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