

GENERAL NOTES:

1. BERTHA H.V. BOARD & BATTEN SHUTTER 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. THIS 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 Kd=0.85 USING ASCE-7-22 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 7-22 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 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 SPACING, PER ANSI/AWC NDS-2024.

BERTHA H.V. BOARD & BATTEN SHUTTER'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER ATL REPORT # 0809.001-07, AS PER ASTM E 1886, ASTM E 1996 AND ASTM E 330 STANDARDS, QUALIFIED FOR WIND ZONE 3, MISSILE TYPE D AND PER ASTM E-1996.

2. SEE ELEVATIONS ON SHEETS 3 & 7 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 Fy= 25.0 ksi MINIMUM (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 SHALL BE STAINLESS STEEL 304 OR 316 AISI SERIES WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4 & 1711.

5. BOLTS SHALL BE AISI 304 SERIES STAINLESS STEEL WITH 35 ksi MINIMUM YIELD STRENGTH.

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

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

(A) TO EXISTING WOOD FRAME WALL: SOUTHERN PINE No. 2, G=0.55.
-1/4" S.S. TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX, INC.

NOTES:

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.

(B) TO EXISTING POURED CONCRETE MIN. (f'c= 3192 p.s.i) OR ASTM C-90 CONCRETE BLOCK
-1/4" S.S. TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.

NOTES:

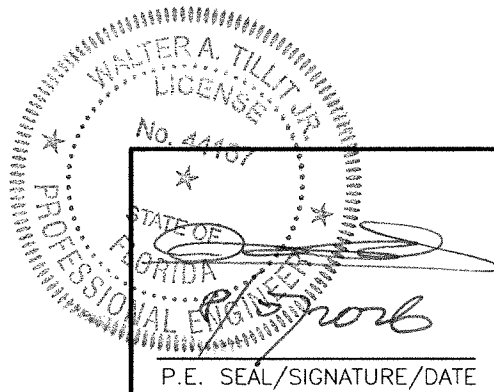
B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO THE POURED CONCRETE UNIT SHALL BE 1 3/4" AND IN CONCRETE BLOCK UNIT SHALL BE 1 1/4".

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) 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 & SAFETY PINS 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. BERTHA H.V. BOARD & BATTEN SHUTTER'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
12. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT SURFACE OF THE SHUTTERS FRAME 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.
13. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I. e. WHERE THE SITE CONDITIONS DEViate FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS 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 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.

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



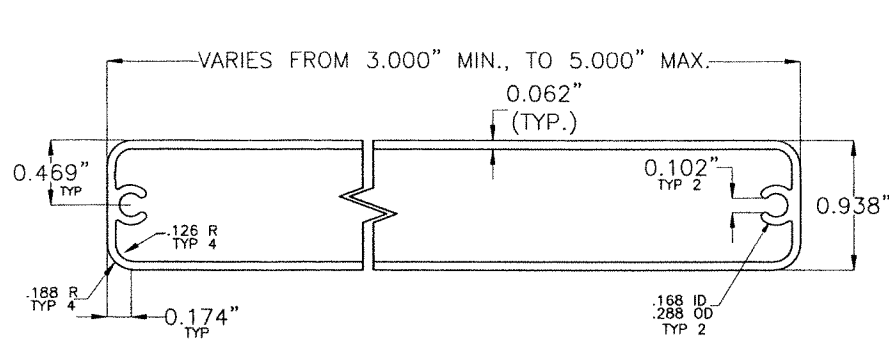
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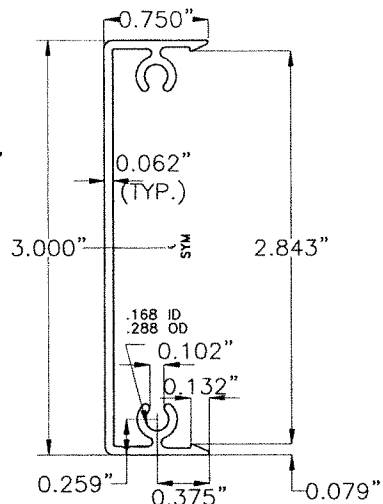
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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

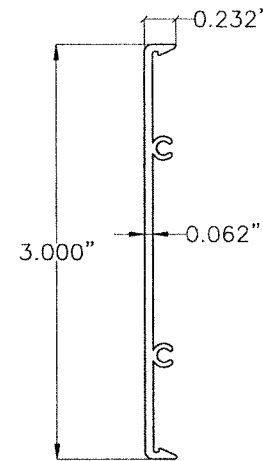
BERTHA HV BOARD AND BATTEN SHUTTER				W.H. DRAWN BY:	
EASTERN METAL SUPPLY, INC				7/27/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263 FAX: (561)841-1716				26-236 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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				SHEET 1 OF 13	



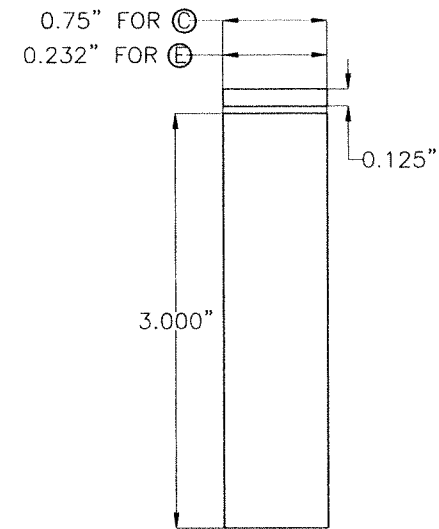
A 0.938"xVARIES SLAT (BOARD)
6063-T6 Alum. ALLOY



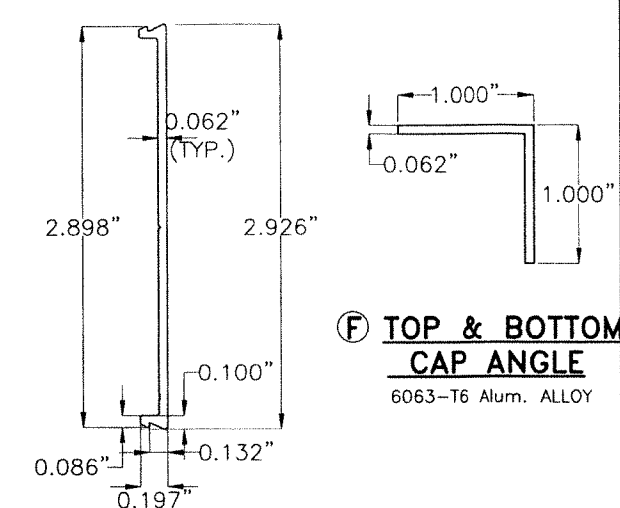
C 3"x0.75" SNAP CHANNEL FOR WOOD WALL
6063-T6 Alum. ALLOY



E 3"x0.232" SNAP CHANNEL FOR CONCRETE BLOCK OR WOOD WALL
6063-T6 Alum. ALLOY

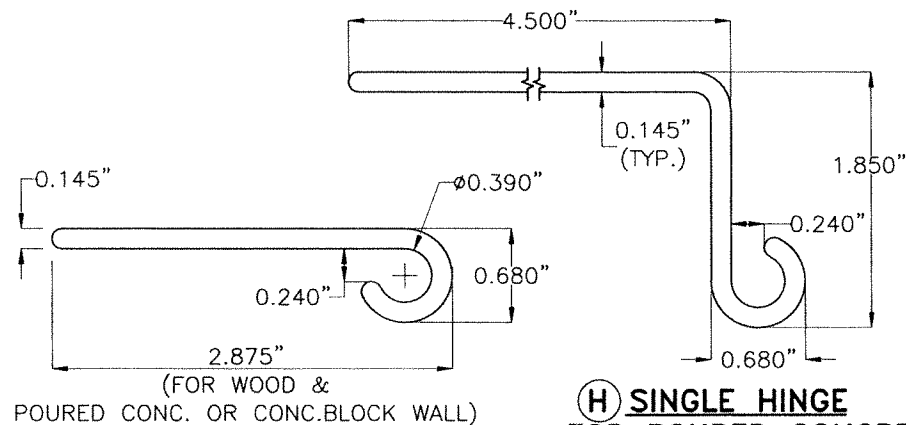


C, E1 SNAP CHANNEL CAP
6063-T5 Alum. ALLOY



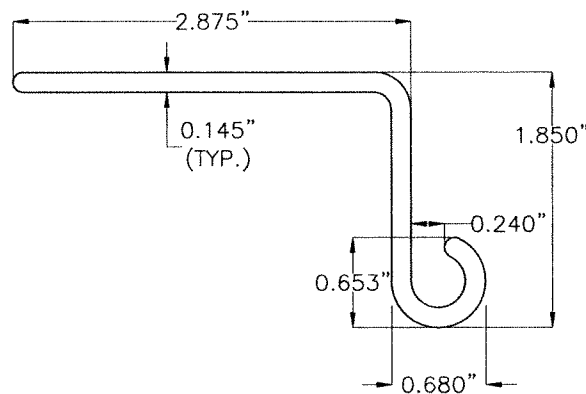
D SNAP PLATE (BATTEN)
6063-T6 Alum. ALLOY

F TOP & BOTTOM CAP ANGLE
6063-T6 Alum. ALLOY

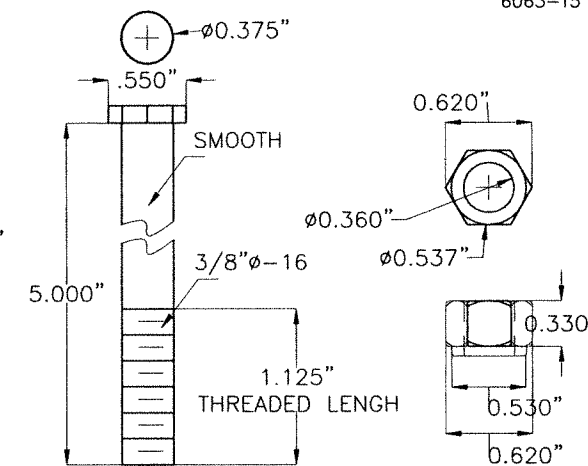


G FLAT HINGE
6063-T6 Alum. ALLOY
2" LONG.

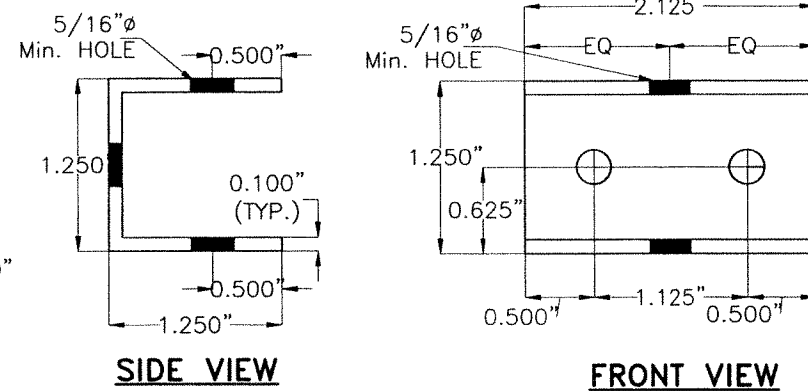
H SINGLE HINGE FOR POURED CONCRETE OR CONCRETE BLOCK WALL
6063-T6 Alum. ALLOY
2" LONG.



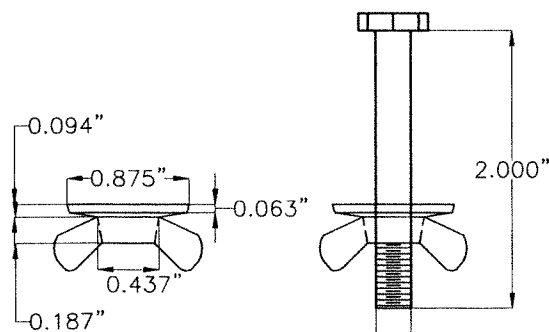
H1 SINGLE HINGE FOR WOOD
6063-T6 Alum. ALLOY
2" LONG.



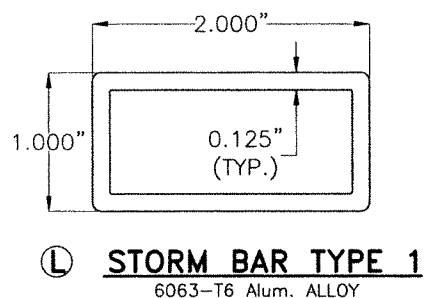
I 3/8"x5" S.S. HEX HEAD BOLT HINGE PIN W/ LOCK NUT.



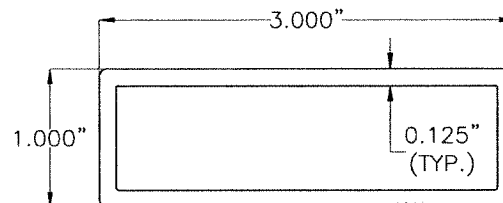
J H.V. STORM BAR CLIP
6063-T6 Alum. ALLOY
2 1/8" LONG.



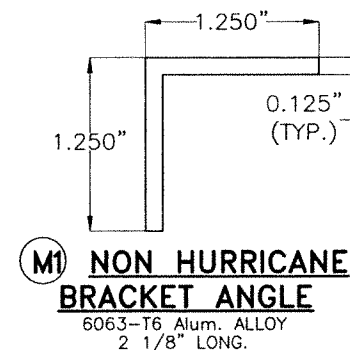
K 1/4"x20x2" S.S. HEX HEAD BOLT W/A WASHER WINGNUT



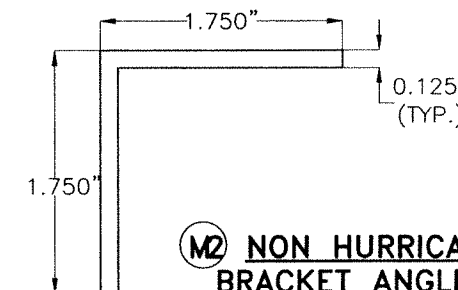
L STORM BAR TYPE 1
6063-T6 Alum. ALLOY



L1 STORM BAR TYPE 2
6063-T6 Alum. ALLOY



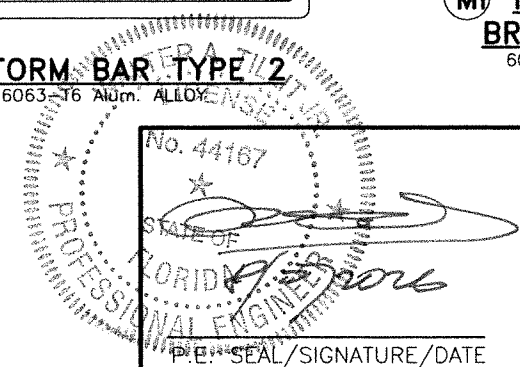
M1 NON HURRICANE BRACKET ANGLE
6063-T6 Alum. ALLOY
2 1/8" LONG.



M2 NON HURRICANE BRACKET ANGLE
6063-T6 Alum. ALLOY
2 1/8" LONG.

COMPONENTS
SCALE: 3/4" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



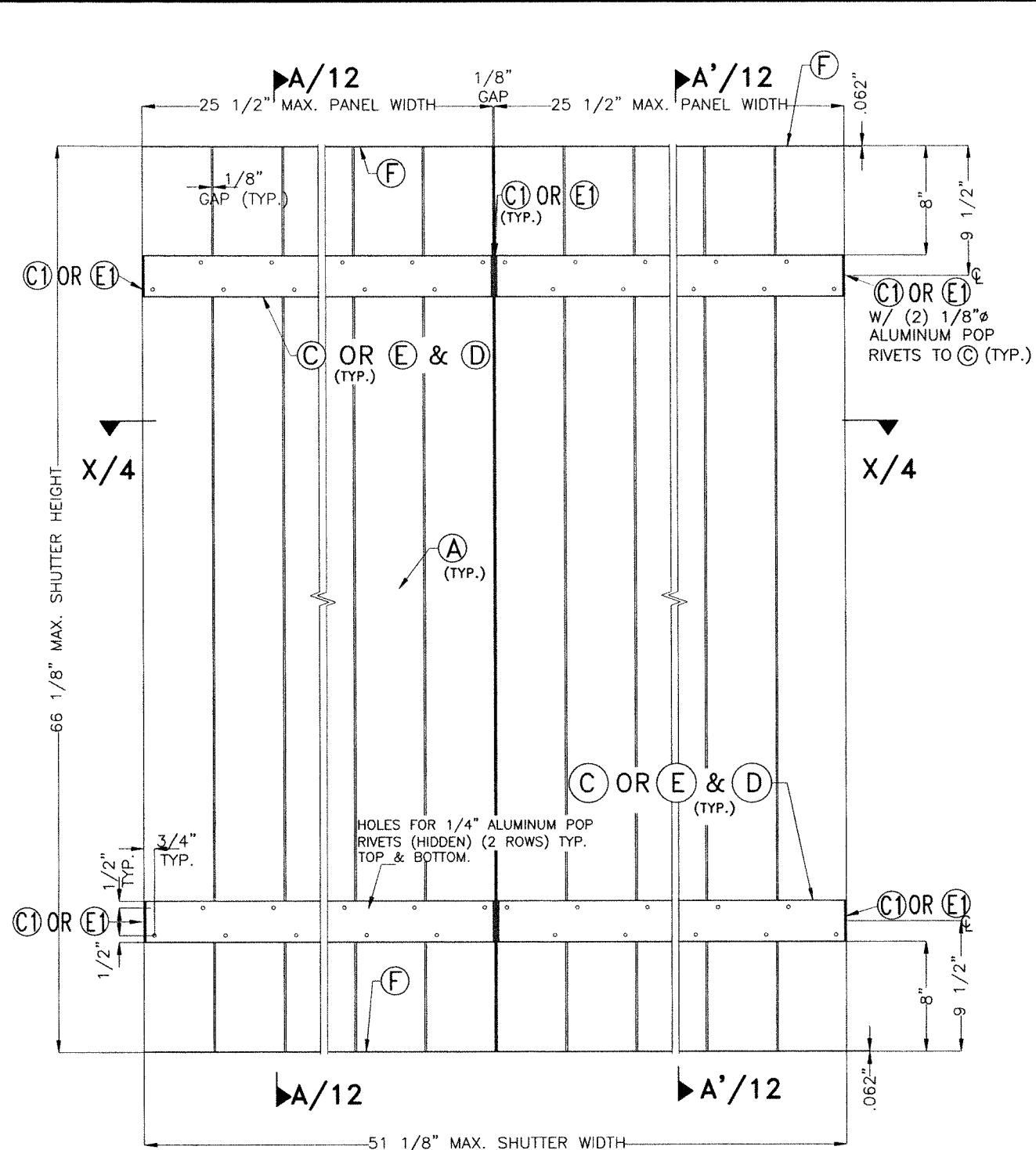
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e-mail: tilteco@aol.com
CA-0006719
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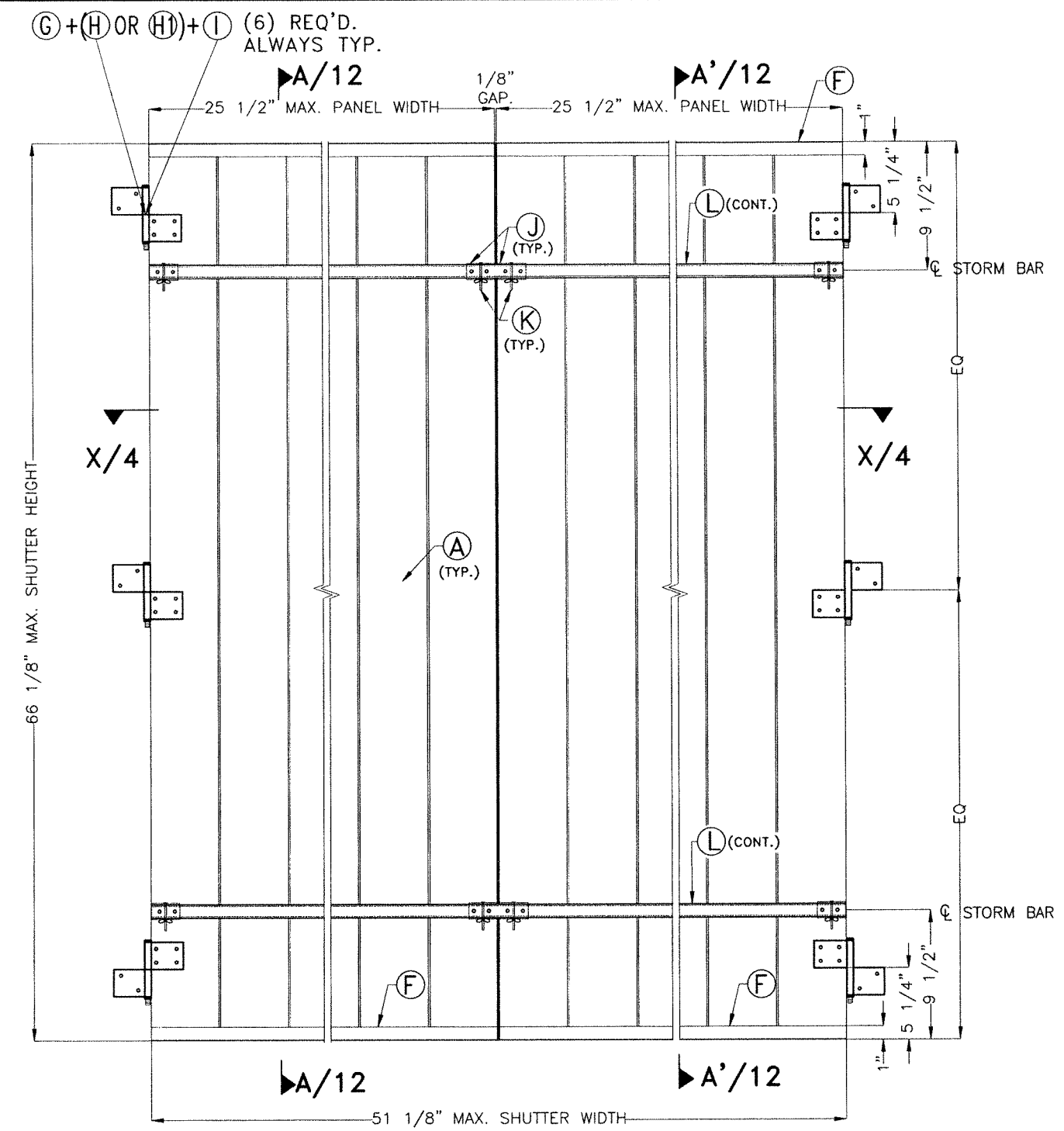
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SHEET 2 OF 13



**TYPICAL INTERIOR ELEV. DOUBLE PANEL
FOR WOOD OR CONCRETE INSTALLATION
(HURRICANE POSITION)**

SCALE: 3/32" = 1"

MAX. A.S.D. DESIGN PRESSURE RATING: +50, -60 psf.



**TYPICAL EXTERIOR ELEV. DOUBLE PANEL
FOR WOOD OR CONCRETE INSTALLATION
(HURRICANE POSITION)**

SCALE: 3/32" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

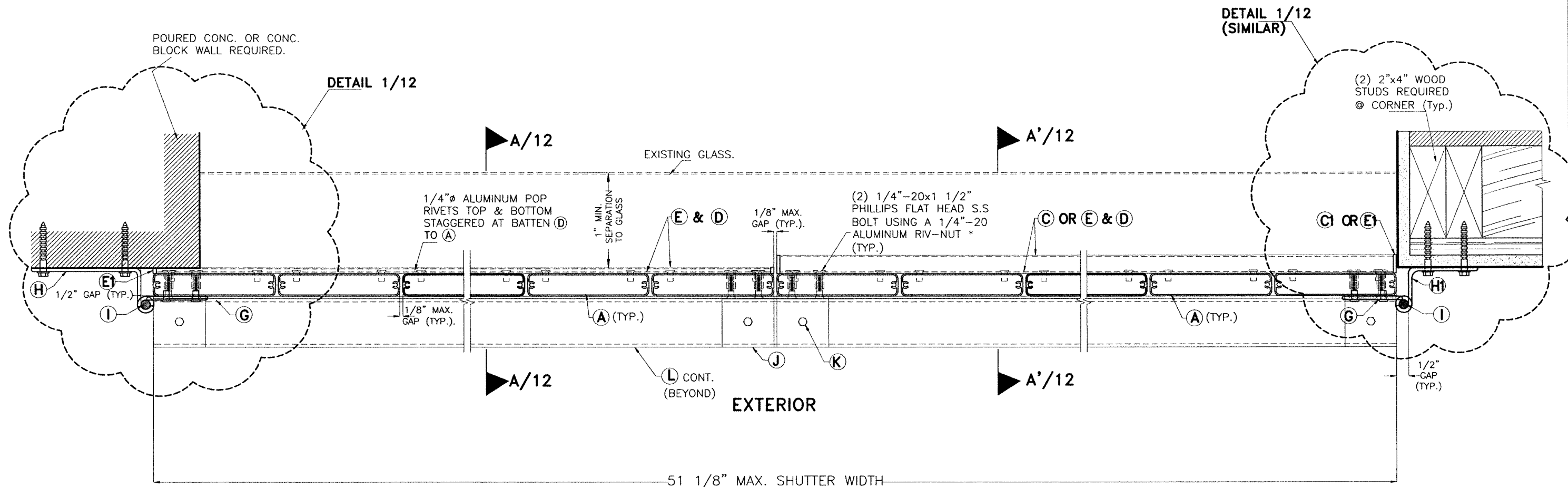
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PROFESSIONAL ENGINEER
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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
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**BERTHA HV BOARD AND BATTEN
SHUTTER**
EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

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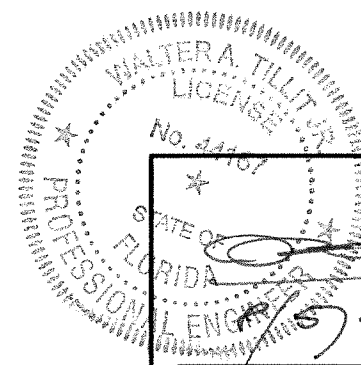
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SHEET 3 OF 13



SECTION X-X @ DOUBLE PANEL

SCALE: 1/4" = 1"

* ALUMINUM RIV-NUT AS MANUFACTURED BY AVDEL CHERRY TEXTORN, PARSIPPENY NEW JERSEY 07054 OR EQUAL.



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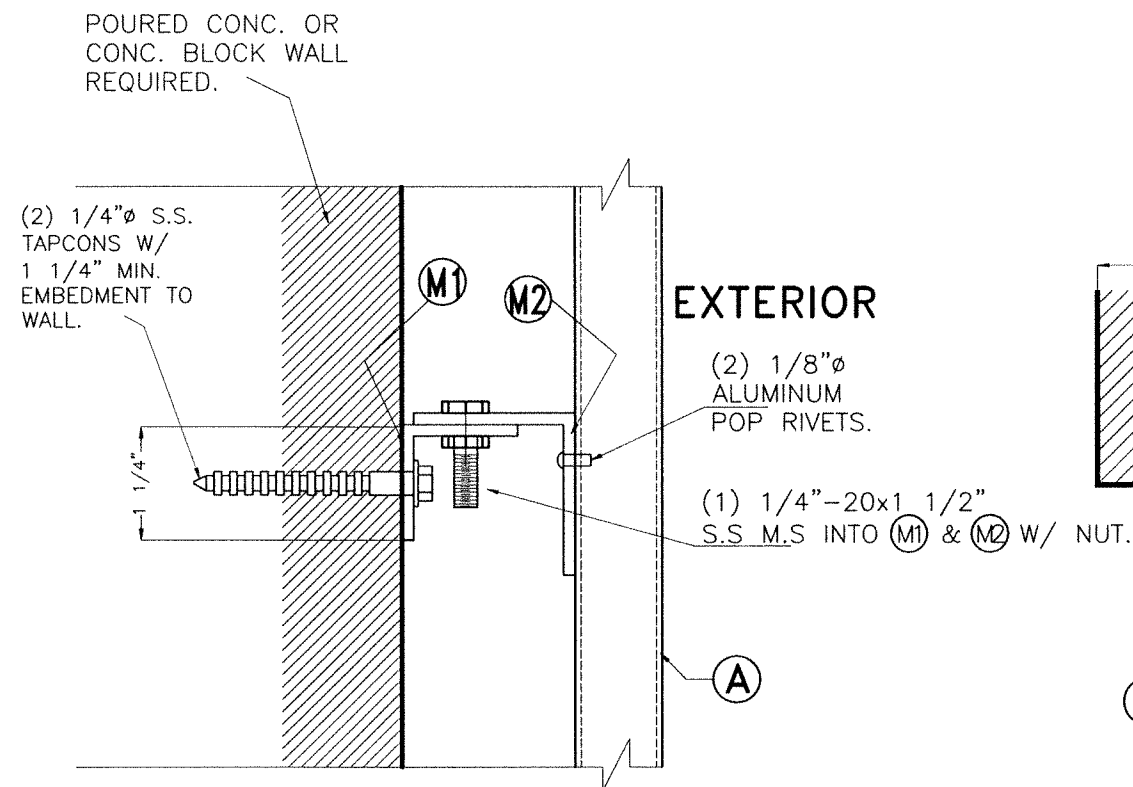
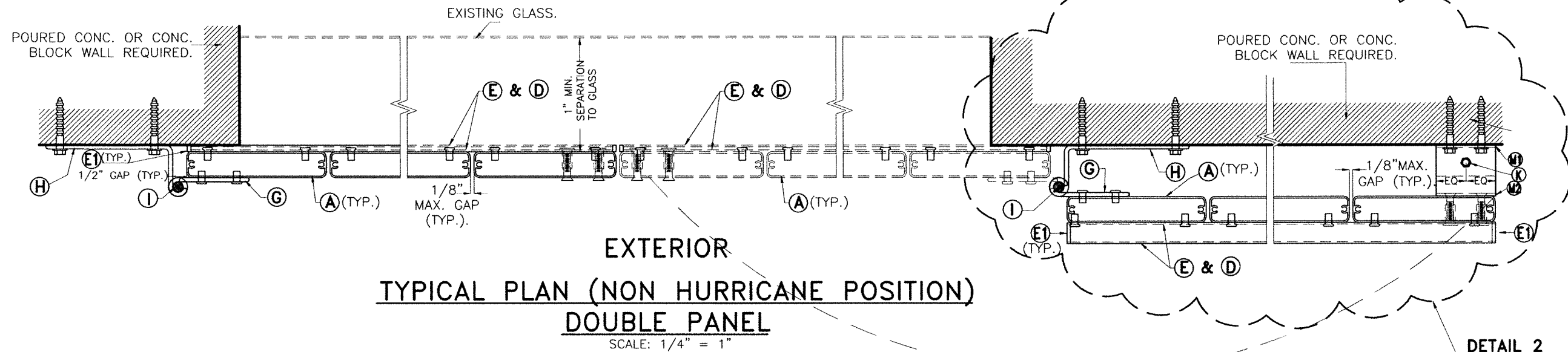
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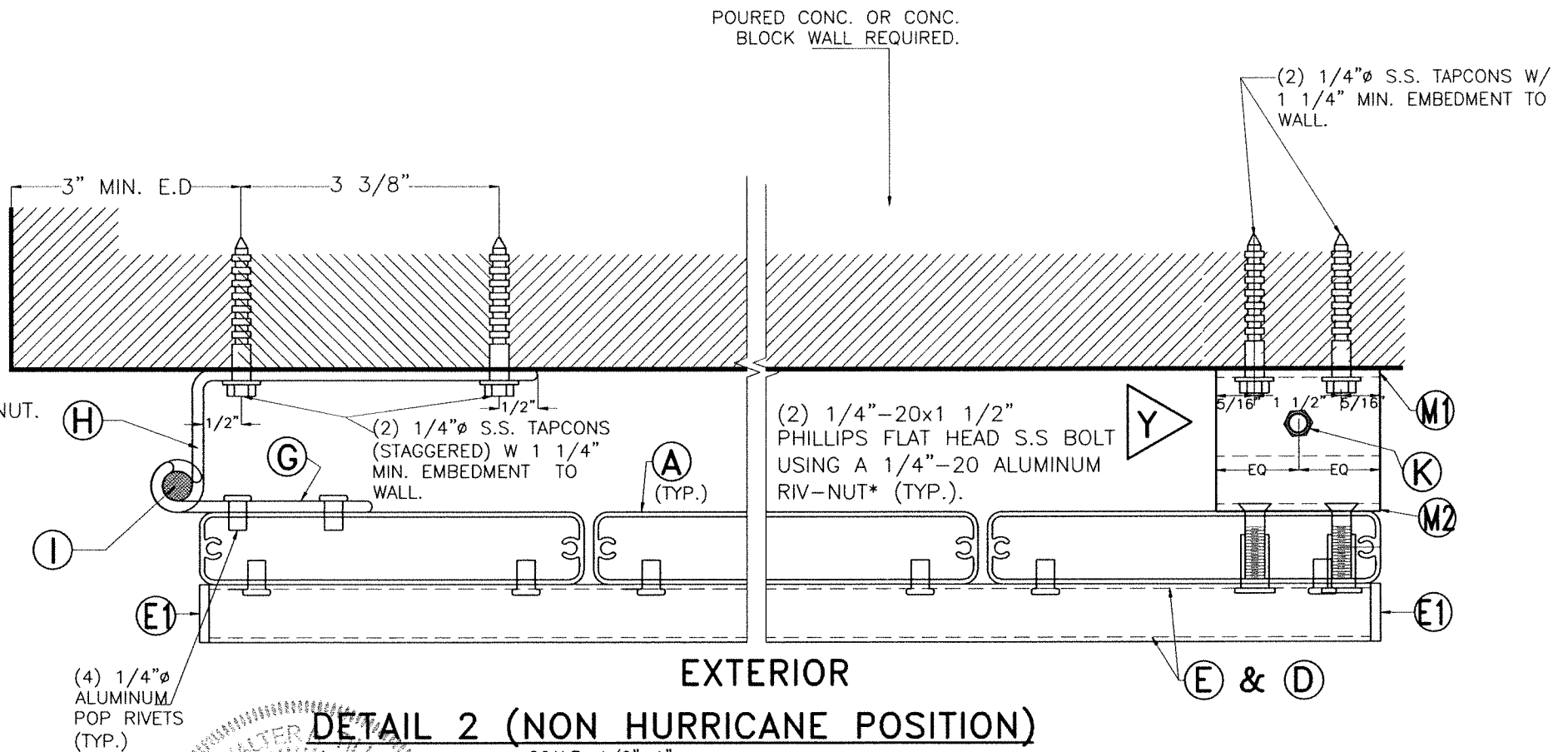
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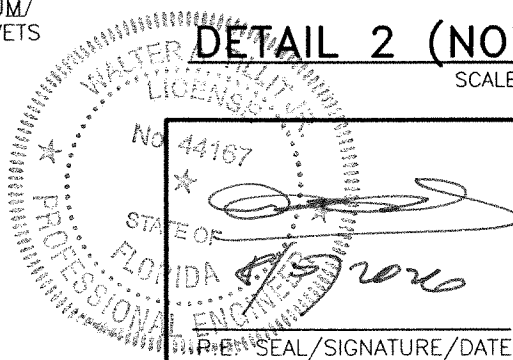


ELEVATION Y-Y
SCALE: 1/2"=1"



SCALE: 1/2"=1"

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WEST PALM BEACH, FL. 33407
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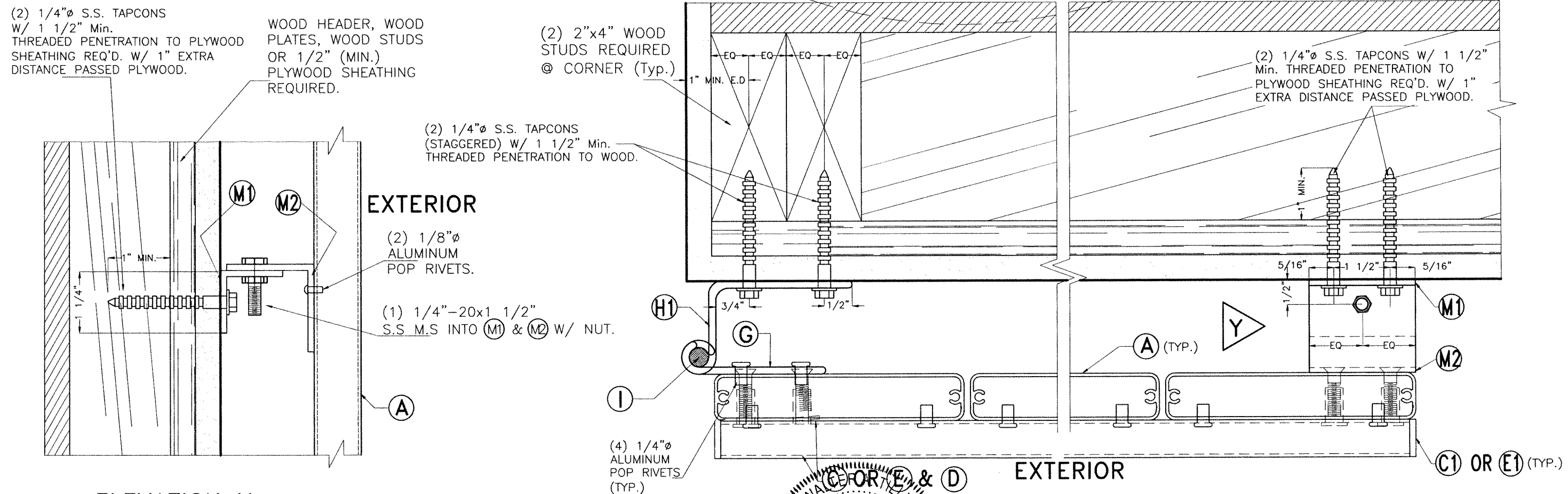
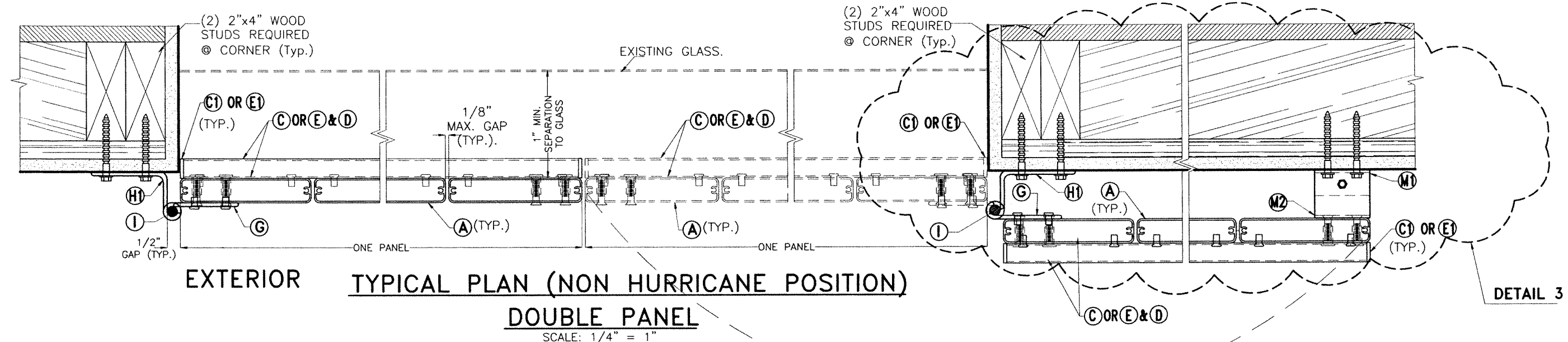
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SHEET 5 OF 13

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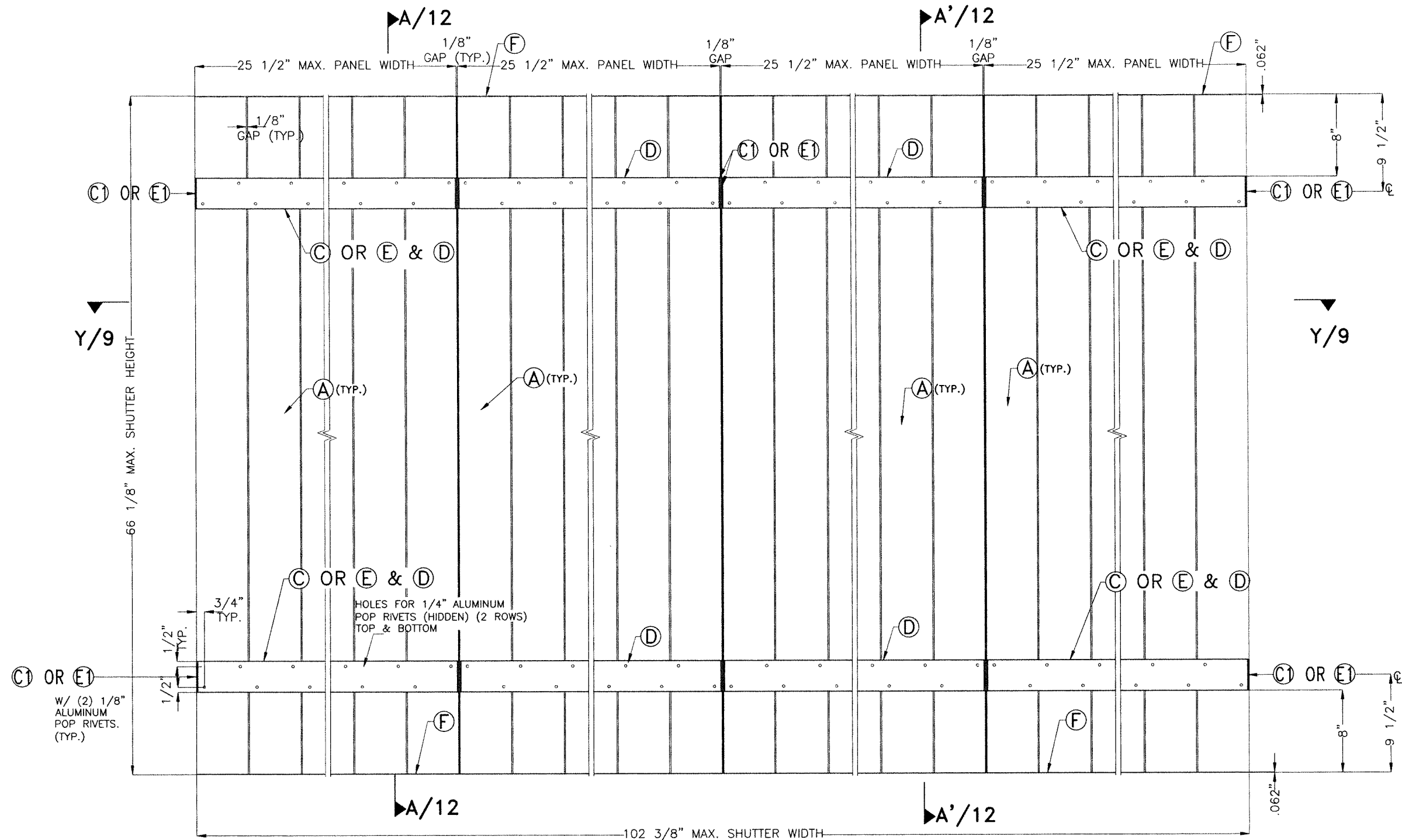
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PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE



**TYPICAL INTERIOR ELEV. QUADRUPLE PANEL
FOR WOOD OR CONCRETE INSTALLATIONS
(HURRICANE POSITION)**

SCALE: 3/32" = 1"

MAX. A.S.D. DESIGN PRESSURE RATING: +40, -44 psf.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

NO. 44167
WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE
7/27/2026

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WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
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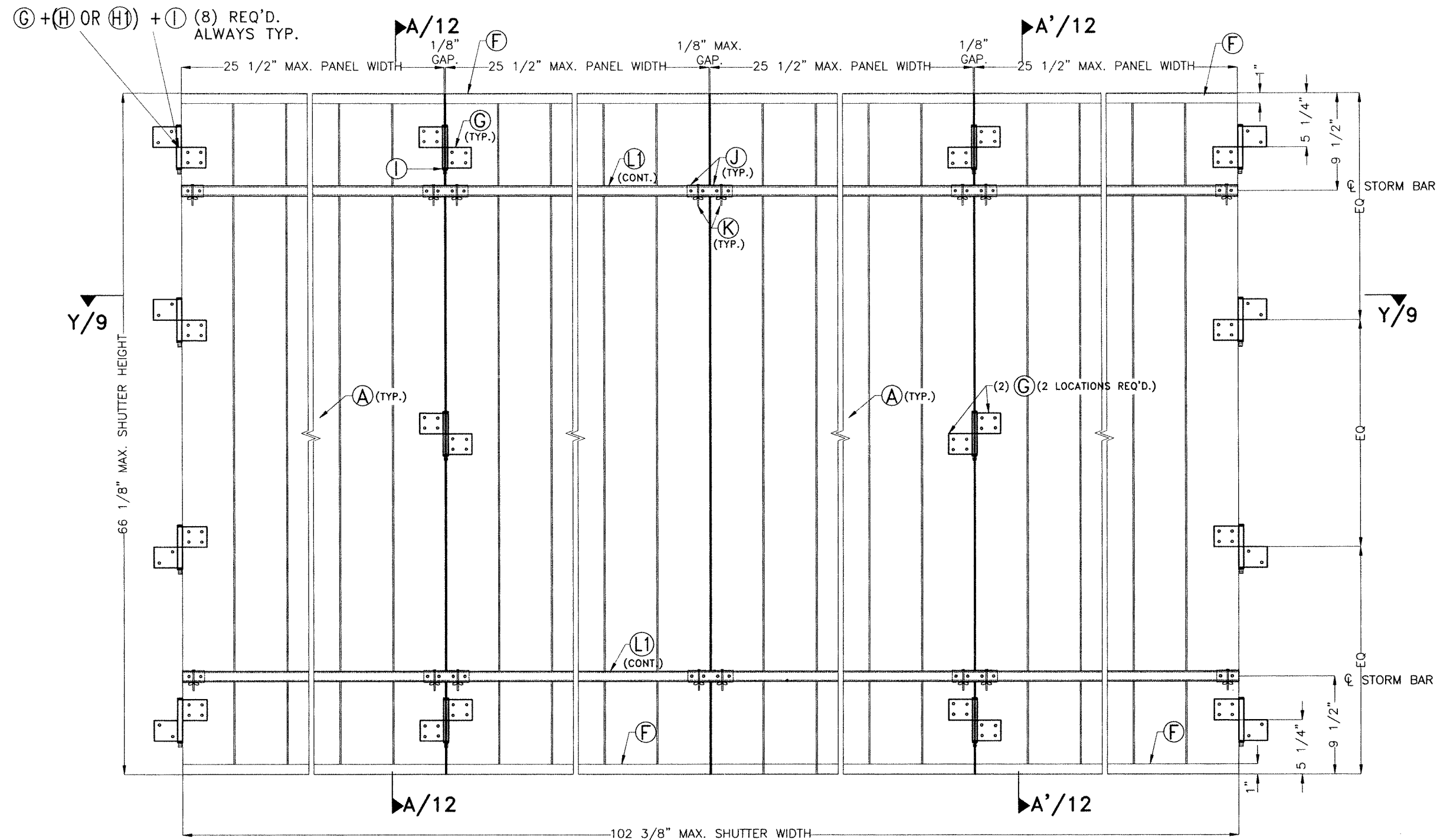
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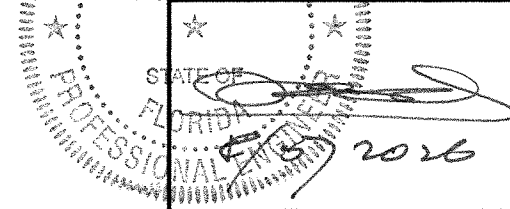
SHEET 7 OF 13



**TYPICAL EXTERIOR ELEV. QUADRUPLE PANEL
FOR WOOD OR CONCRETE
(HURRICANE POSITION)**

SCALE: 3/32" = 1"

No. 44167



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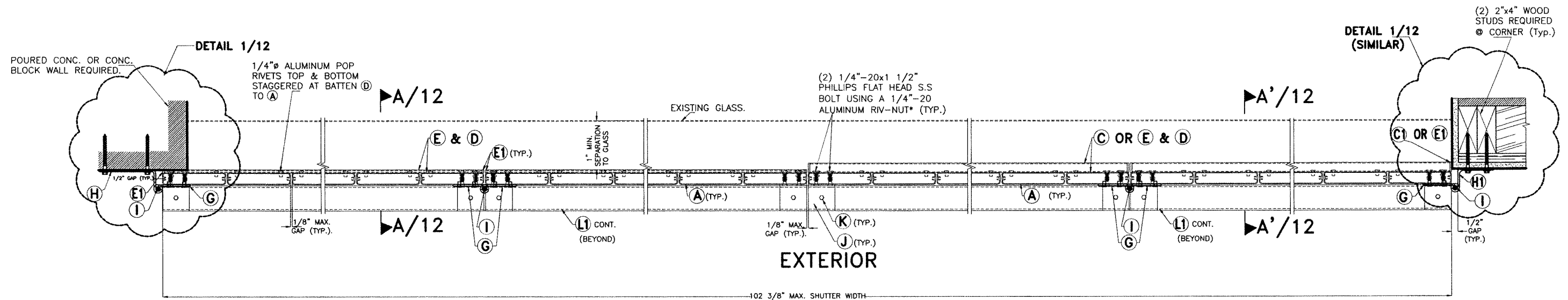
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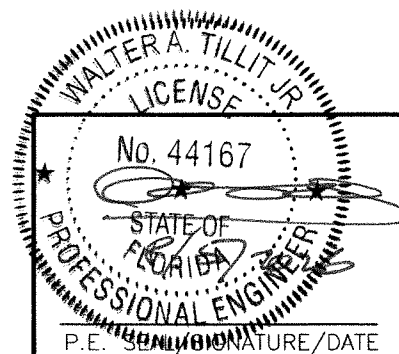
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2	-	-	4	-	-

SHEET 8 OF 13



SECTION Y-Y @ QUADRUPLER PANEL SCALE: 1/8" = 1"

* ALUMINUM RIV-NUT AS MANUFACTURED BY AVDEL CHERRY TEXTORN, PARSIPPENY NEW JERSEY 07054 OR EQUAL.



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TILLIT TESTING & ENGINEERING COMPANY
6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

BERTHA HV BOARD AND BATTEN SHUTTER

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

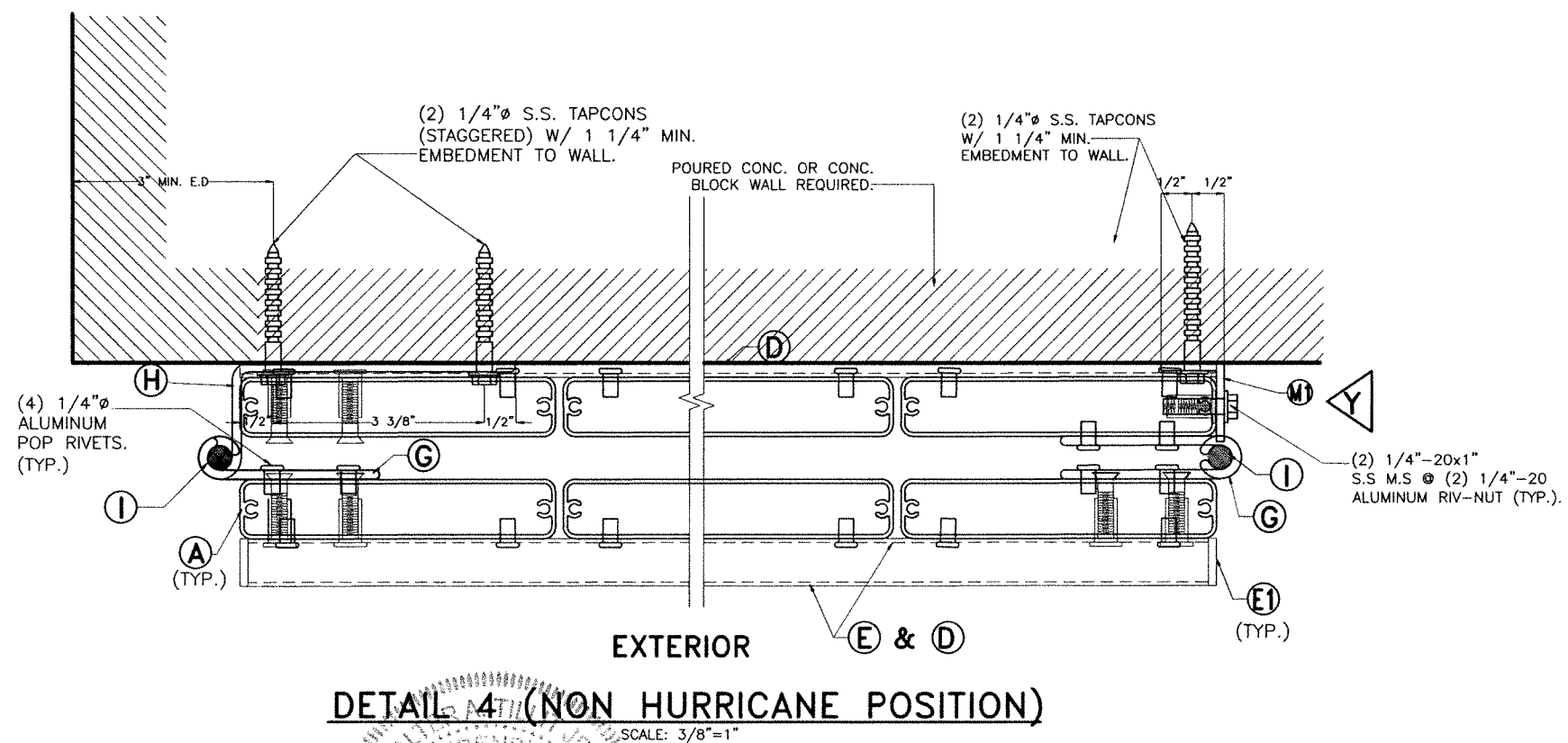
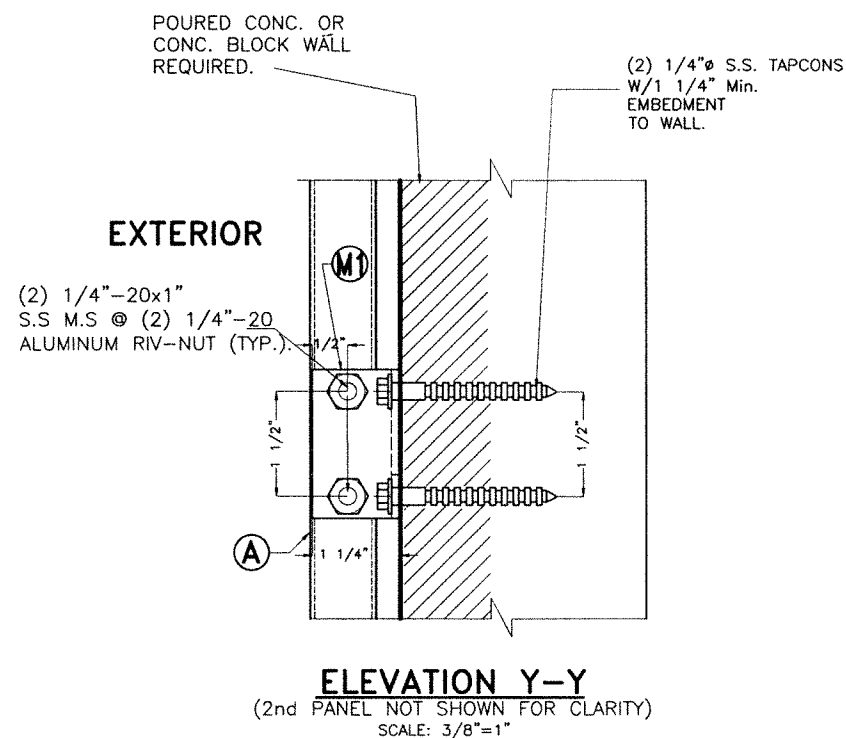
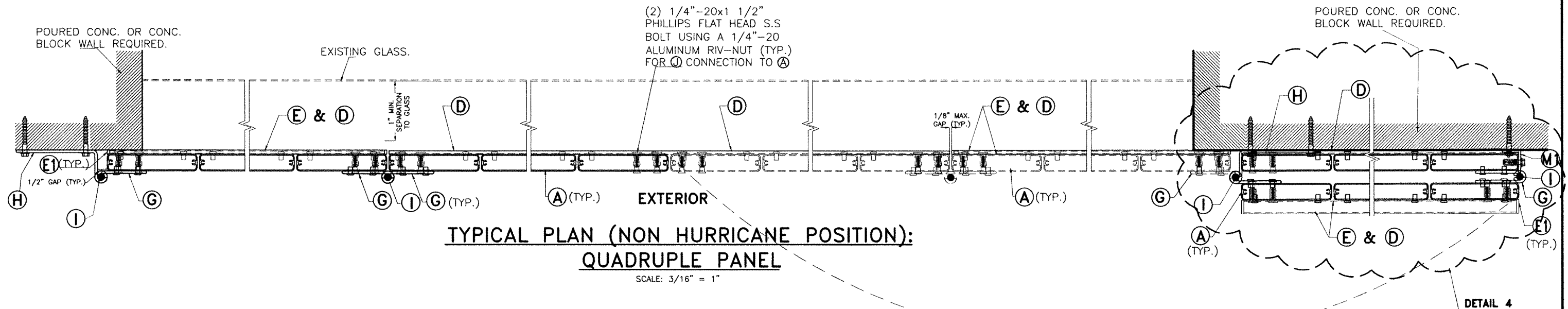
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DRAWN BY:

7/27/2026
DATE:

26-236
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-159	7/27/26	3	-	-
2	-	-	4	-	-

SHEET 9 OF 13



DETAIL 4 (NON HURRICANE POSITION)

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

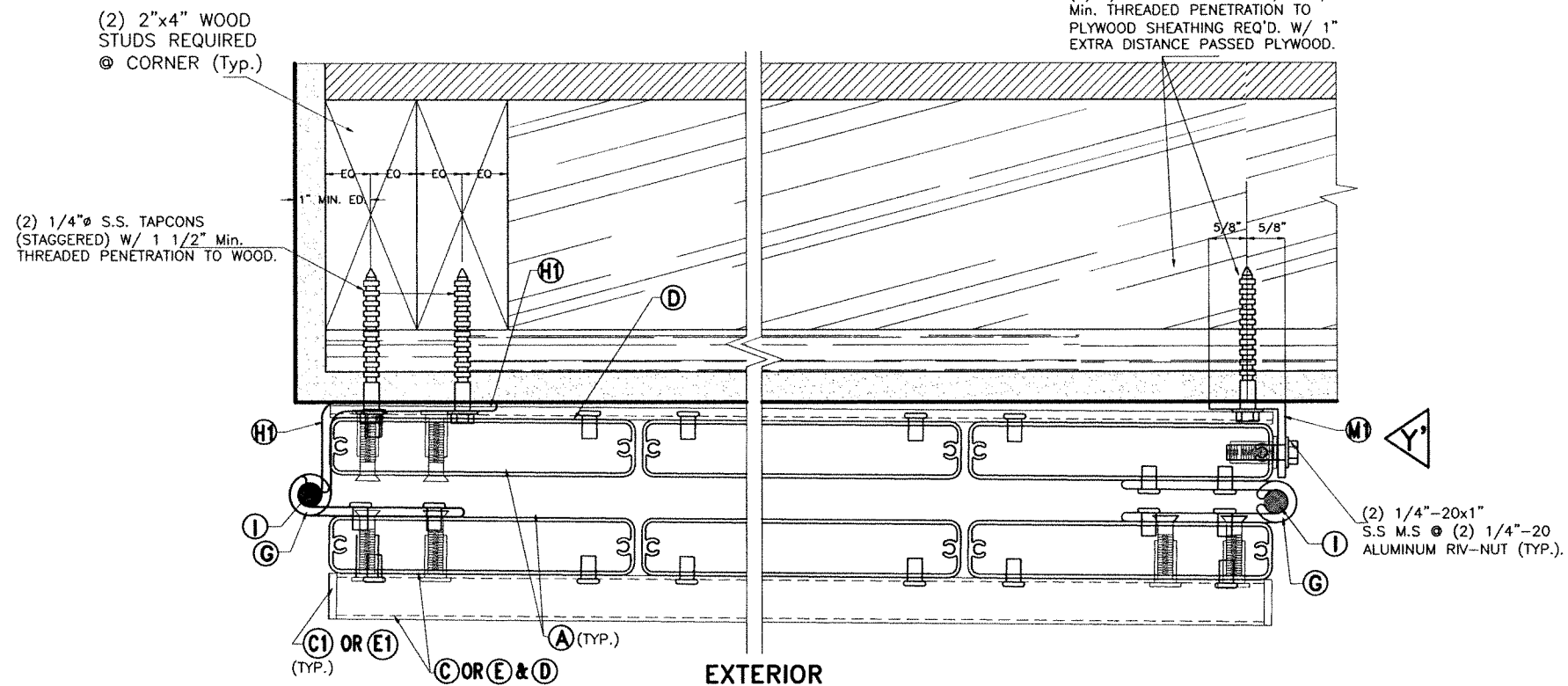
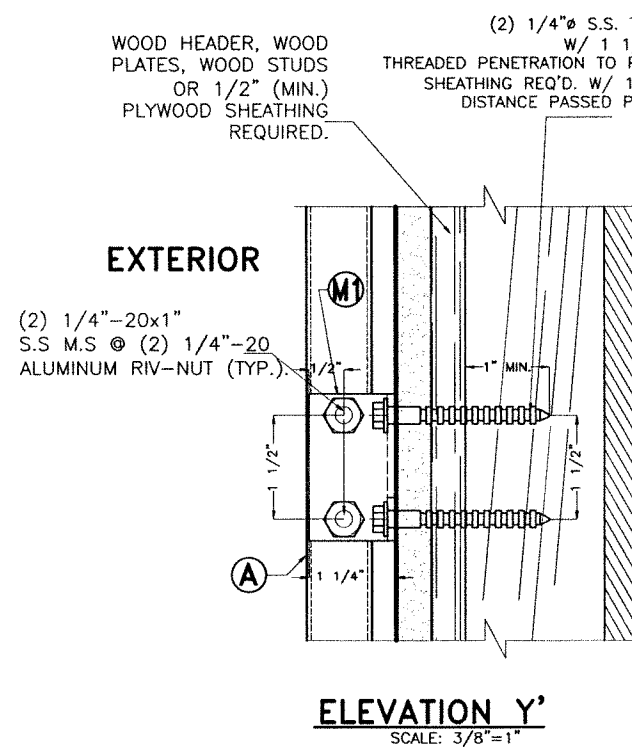
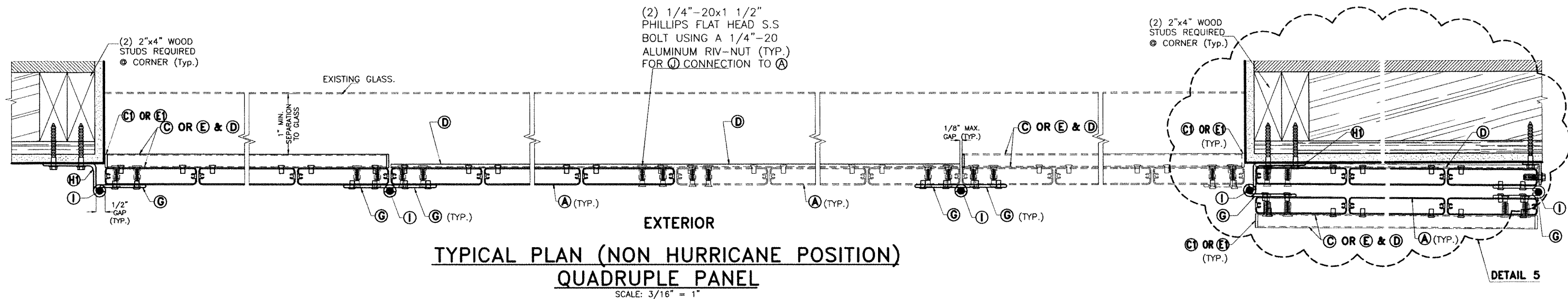
WALTER A. TILLIT, JR.
P.E. SEAL/SIGNATURE/DATE

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6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166
Phone: (305)871-1530 Fax: (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

BERTHA HV BOARD AND BATTEN SHUTTER
EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

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

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SHEET 10 OF 13



WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 8/5/2026

DETAIL 5 (NON HURRICANE POSITION)
 SCALE: 3/8" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

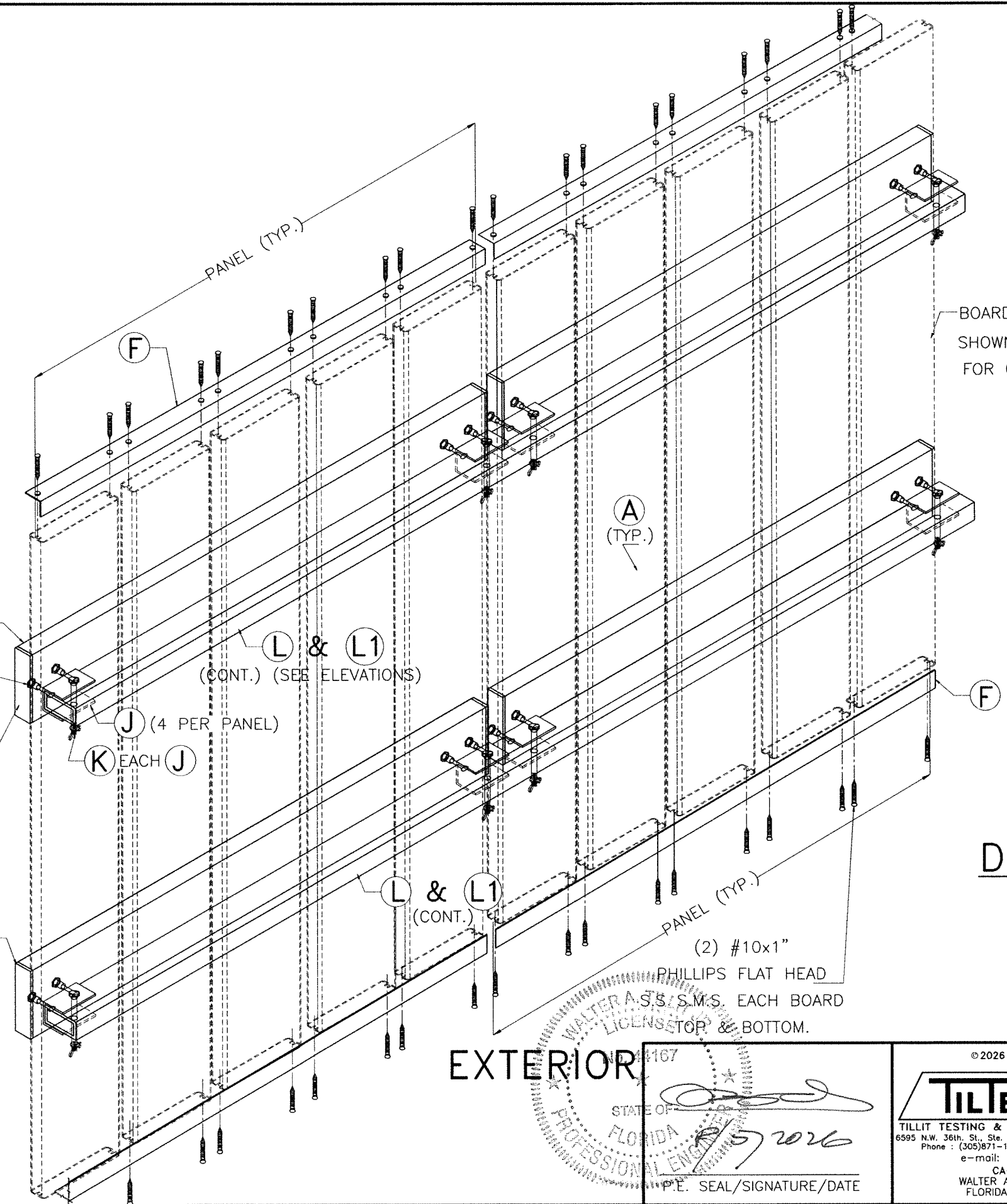
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REV. No 1 2	DESCRIPTION OLD 23-159 -	DATE 7/27/26 -	REV. No 3 4	DESCRIPTION - -
				SHEET 11 OF 13

ET 12 OF 13

Ⓒ OR Ⓔ & Ⓓ
(2) 1/4"-20x1 1/2"
PHILLIPS FLAT HEAD S.S
BOLT USING A 1/4"-20
RIV-NUT (TYP.).

Ⓒ1 OR Ⓔ1

Ⓒ OR Ⓔ & Ⓓ
(2 PER PANEL)



BOARD Ⓐ
SHOWN DOTTED
FOR CLARITY

ISOMETRIC
(HURRICANE POSITION) @
DOUBLE PANEL (QUADRUPLE
PANEL IS SIMILAR)

N.T.S

EXTERIOR

WALTER A. TILLIT
P.E. SEAL/SIGNATURE/DATE
7/27/2026

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6595 N.W. 36th. St., Ste. 217, VIRGINIA GARDENS, FL. 33168
Phone : (305)871-1530 Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

BERTHA HV BOARD AND BATTEN
SHUTTER
EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

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SHEET 13 OF 13

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-159	7/27/26	3	-	-
2	-	-	4	-	-