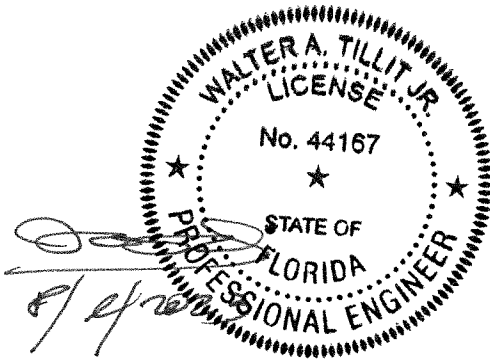


GENERAL NOTES:

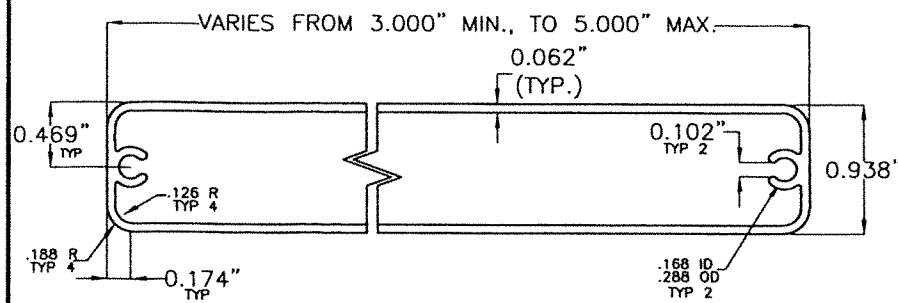
1. BERTHA H.V. BOARD & BATTEN SHUTTER SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2023 (8th EDITION)** OF THE FLORIDA BUILDING CODE. THIS SHUTTER SHALL **NOT** BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI DADE / BROWARD COUNTY).
- 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 $K_d=0.85$ 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 BE FIRST 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 NDS 2018.
- 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 $F_y= 25.0$ 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 TO 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**.
5. BOLTS TO 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"Ø 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"Ø 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 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.

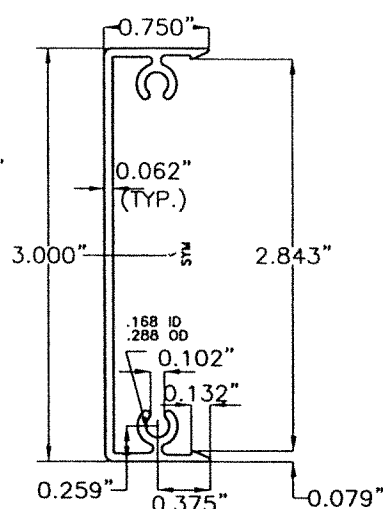
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA



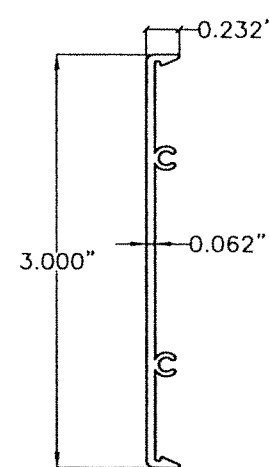
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)							
© 2023 TILTECO, INC.  TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		BERTHA HV BOARD AND BATTEN SHUTTER			Y.M. DRAWN BY:		
		EASTERN METAL SUPPLY, INC			8/9/2023 DATE:		
		4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)209-8263 FAX: (561)841-1716			23-159 DRAWING No		
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2	-	-	4	-	-		
						SHEET 1 OF 13	



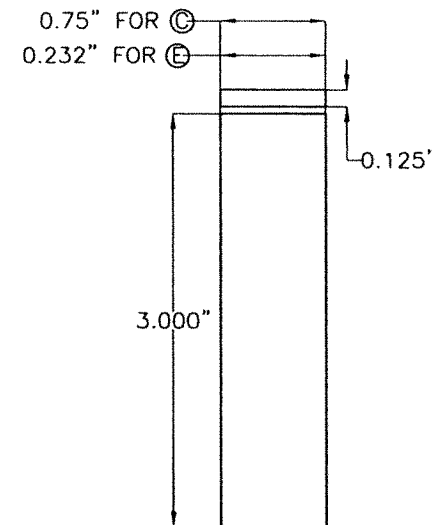
A 0.938"xVARIES SLAT (BOARD)
6063-T6 Alum. ALLOY



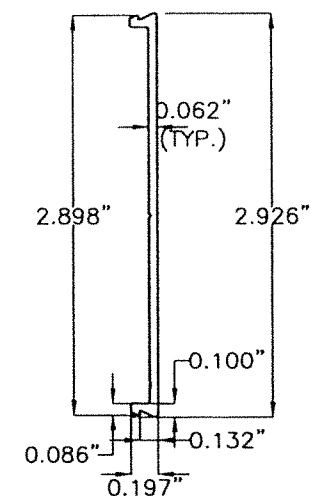
C 3"x0.75" SNAP CHANNEL FOR WOOD WALL
6063-T6 Alum. ALLOY



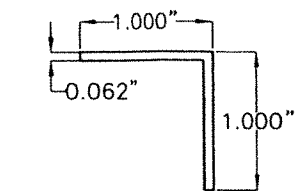
E 3"x0.232" SNAP CHANNEL FOR CONCRETE BLOCK OR WOOD WALL
6063-T6 Alum. ALLOY



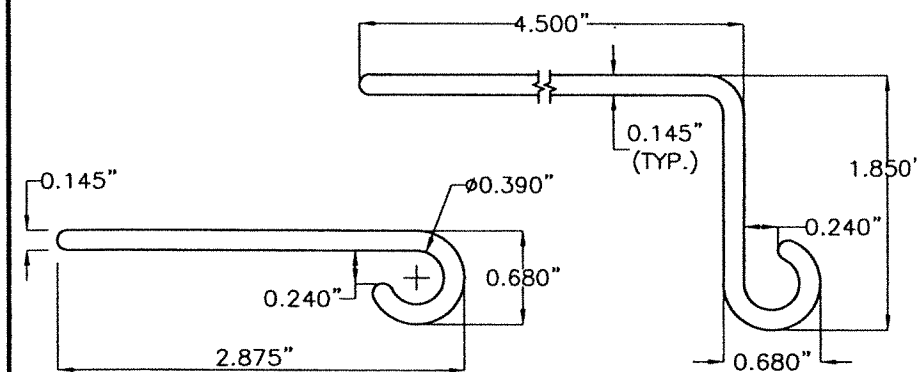
C, E1 SNAP CHANNEL CAP
6063-T5 Alum. ALLOY



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

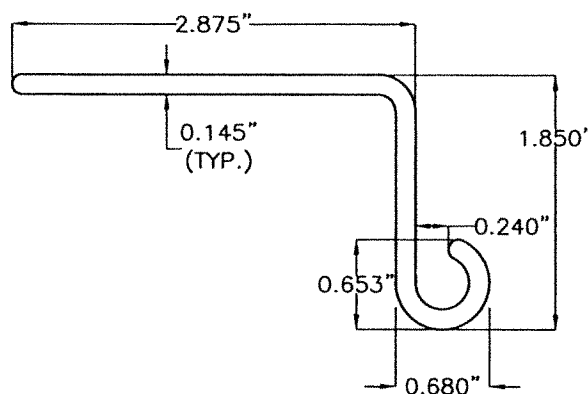


F TOP & BOTTOM CAP ANGLE
6063-T6 Alum. ALLOY

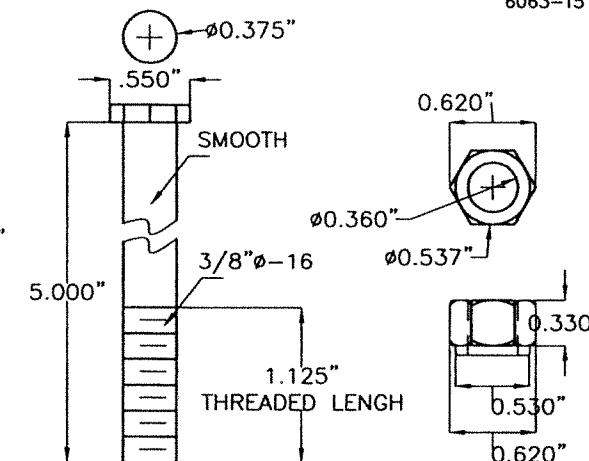


G FLAT HINGE
6063-T6 Alum. ALLOY
2" LONG.

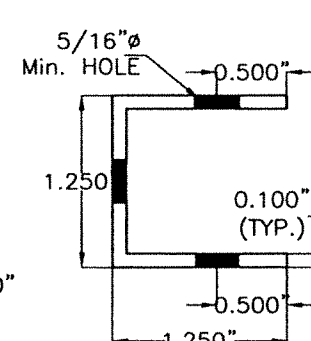
H SINGLE HINGE FOR POURED CONCRETE OR CONCRETE BLOCK WALL
6063-T6 Alum. ALLOY
2" LONG.



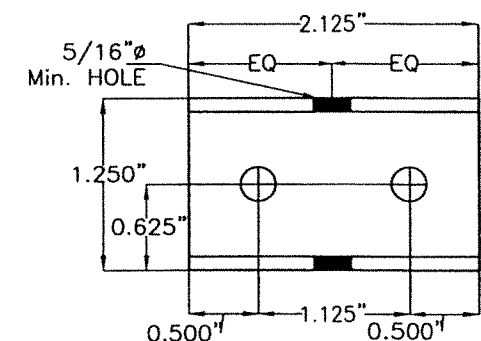
H1 SINGLE HINGE FOR WOOD
6063-T6 Alum. ALLOY
2" LONG.



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

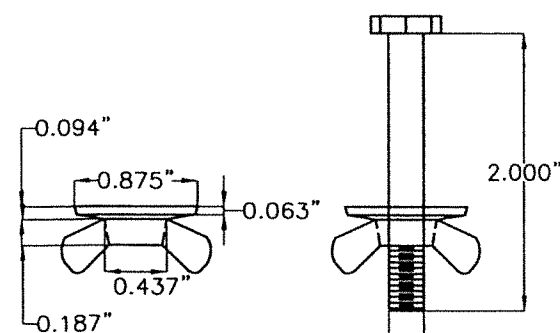


J SIDE VIEW

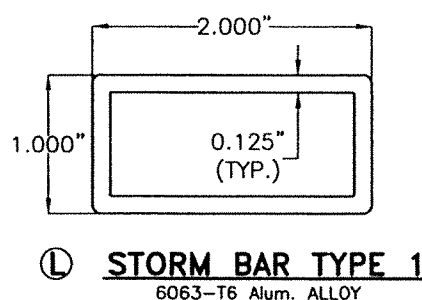


K FRONT VIEW

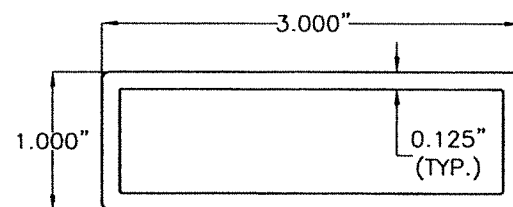
J H.V. STORM BAR CLIP
6063-T6 Alum. ALLOY
2 1/8" LONG.



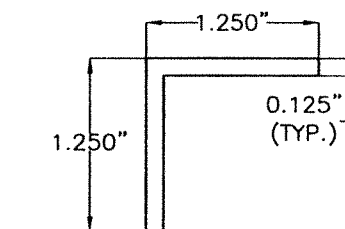
K 1/4"x20x2" S.S. HEX HEAD BOLT W/A WASHER WINGNUT



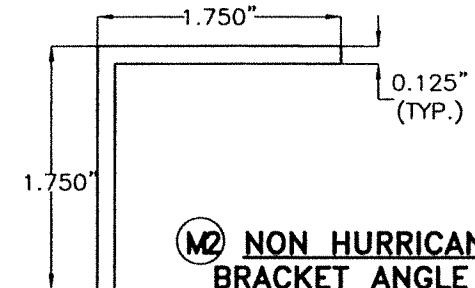
L STORM BAR TYPE 1
6063-T6 Alum. ALLOY



L1 STORM BAR TYPE 1
6063-T6 Alum. ALLOY



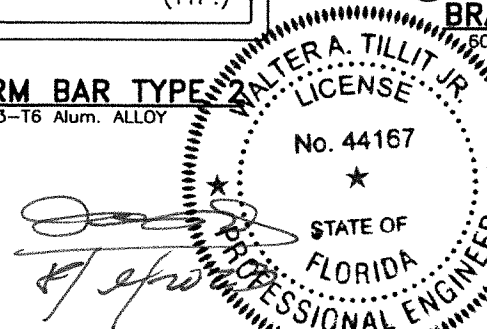
M1 NON HURRICANE BRACKET ANGLE
6063-T6 Alum. ALLOY
2 1/8" LONG.



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

COMPONENTS

SCALE: 3/4" = 1"



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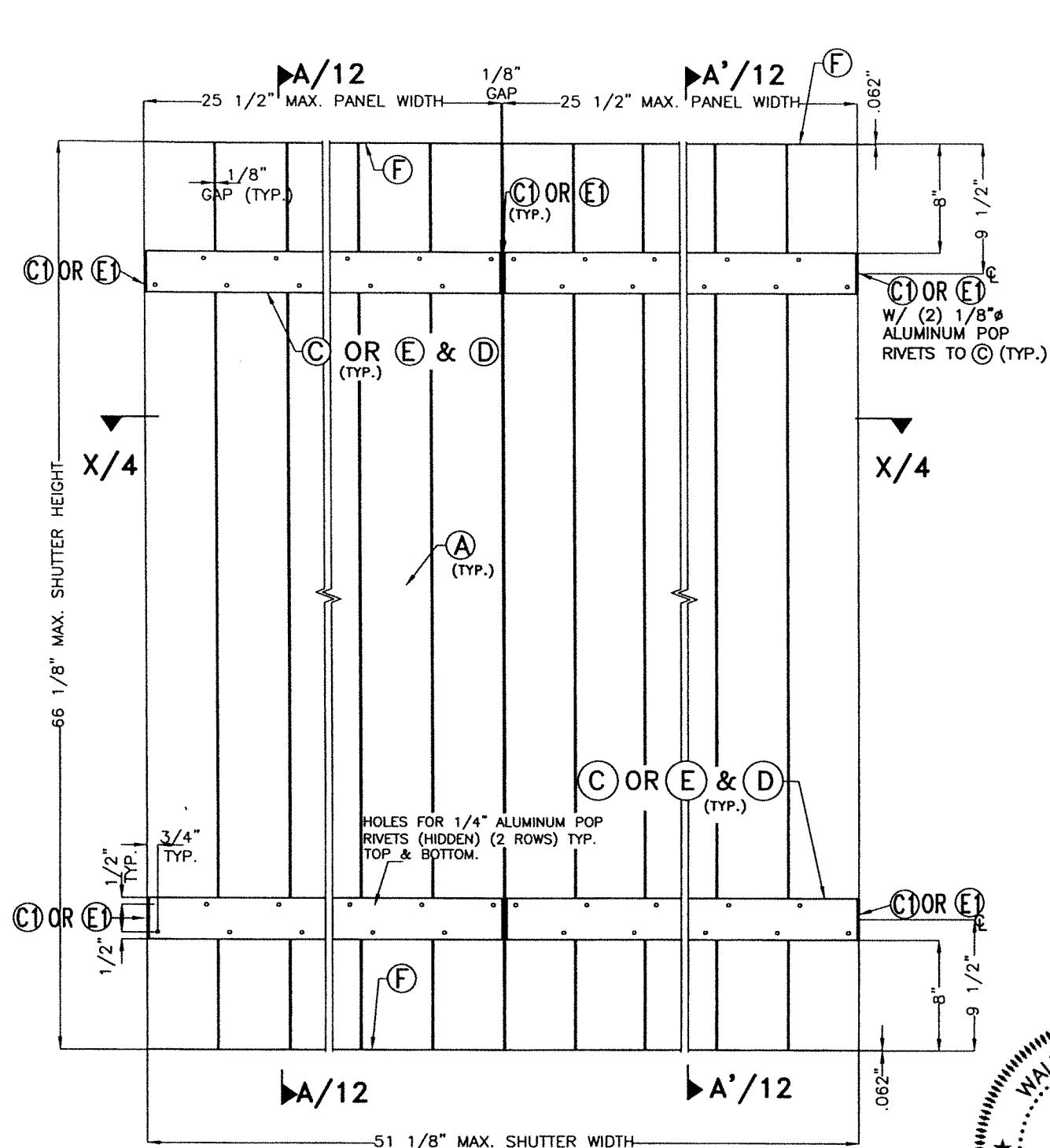
TILLIT TESTING & ENGINEERING COMPANY
6095 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166
Phone: (305)871-1530 Fax: (305)871-1531
e-mail: tiltco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

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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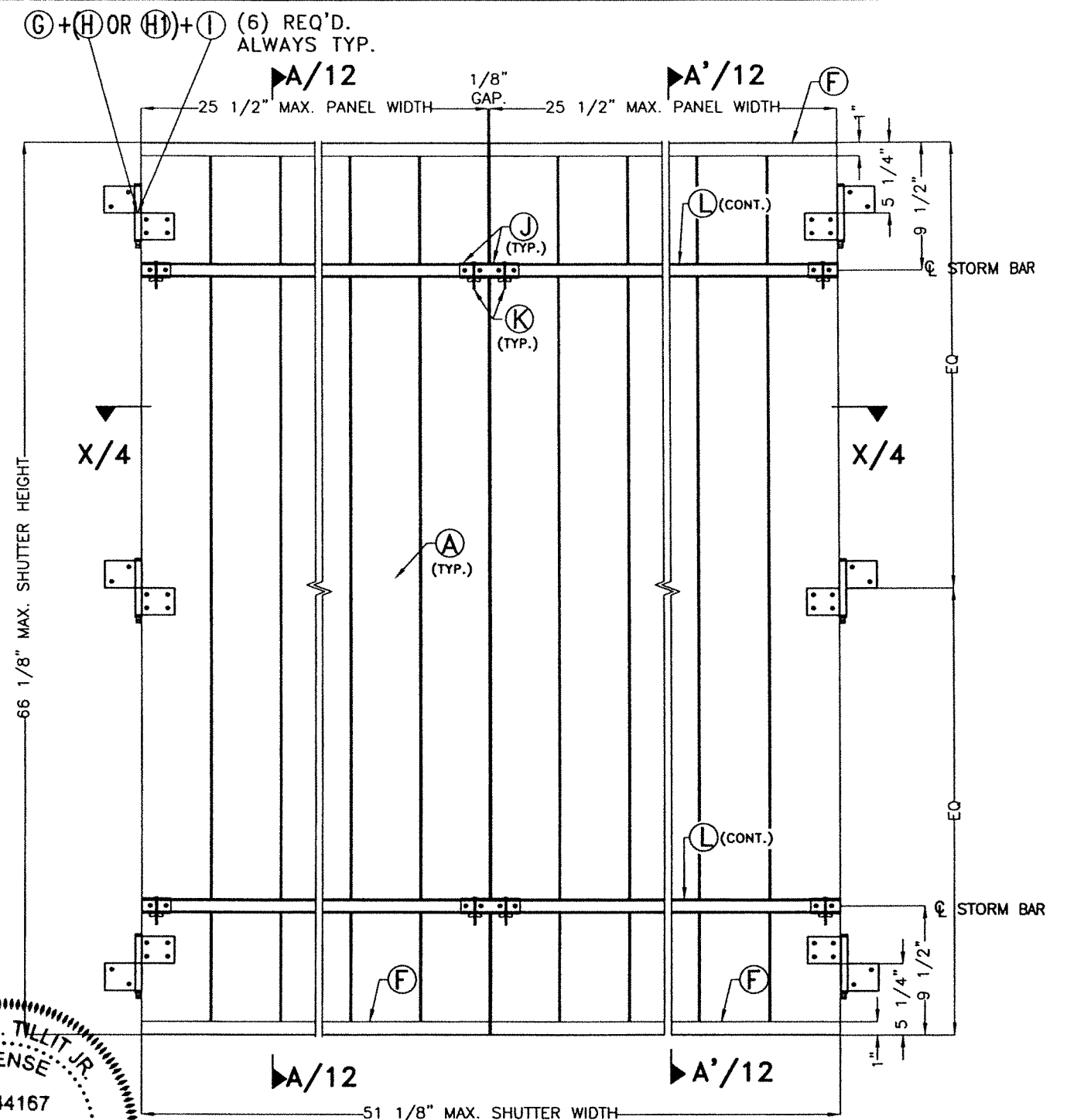
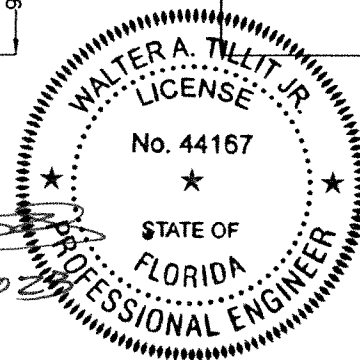
Y.M.
DRAWN BY:
8/9/2023
DATE:
23-159
DRAWING No
SHEET 2 OF 13



**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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**BERTHA HV BOARD AND BATTEN
SHUTTER**

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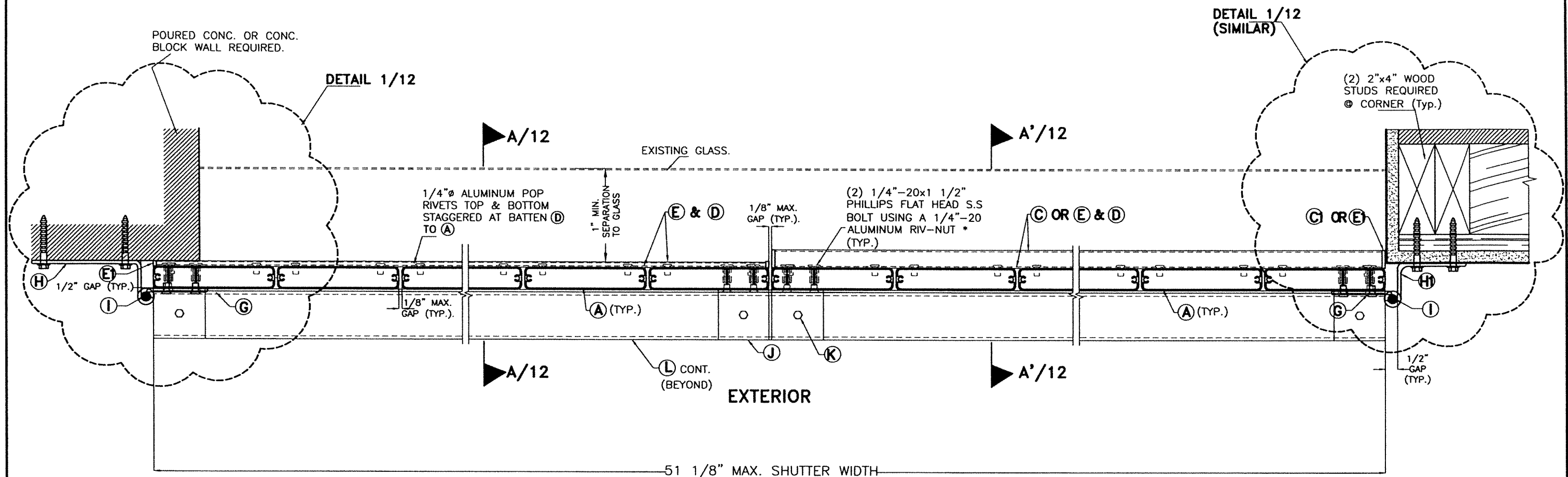
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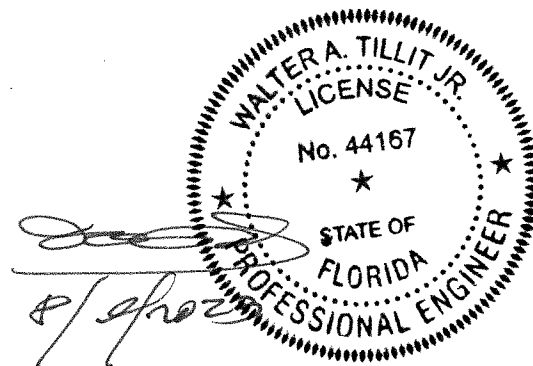
SHEET 3 OF 13



SECTION X-X @ DOUBLE PANEL

SCALE: 1/4" = 1"

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



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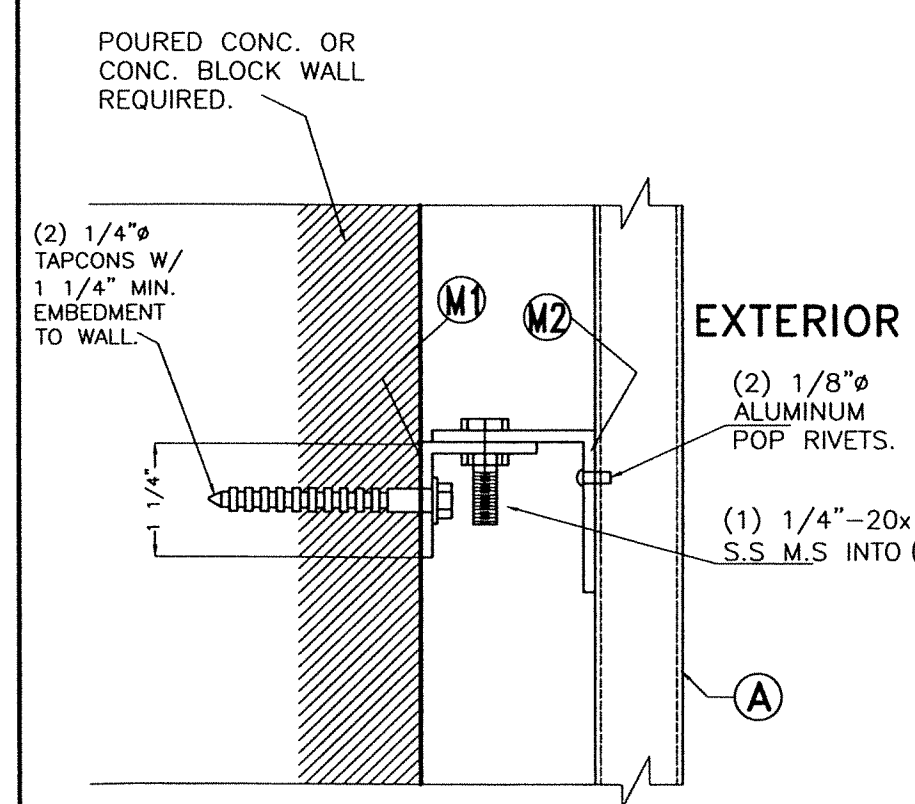
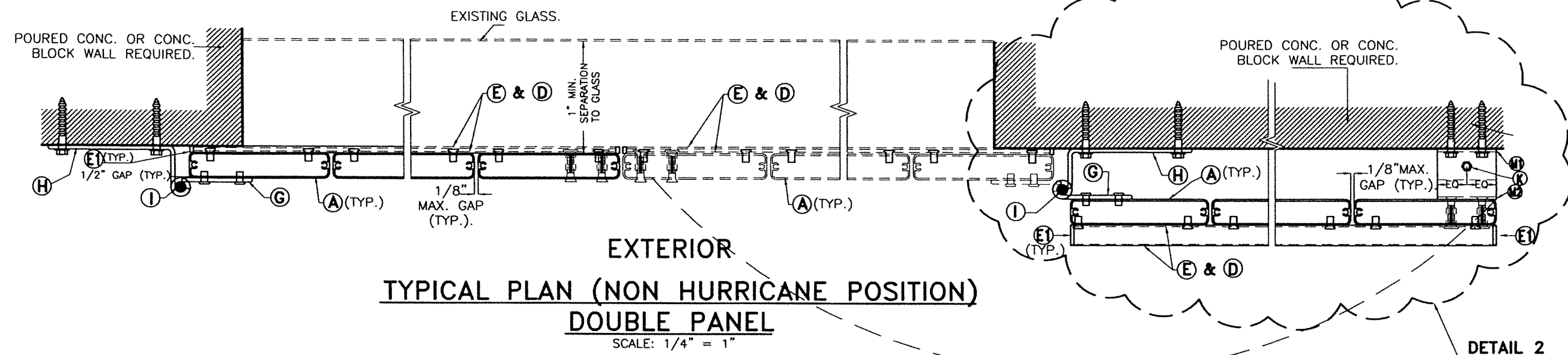
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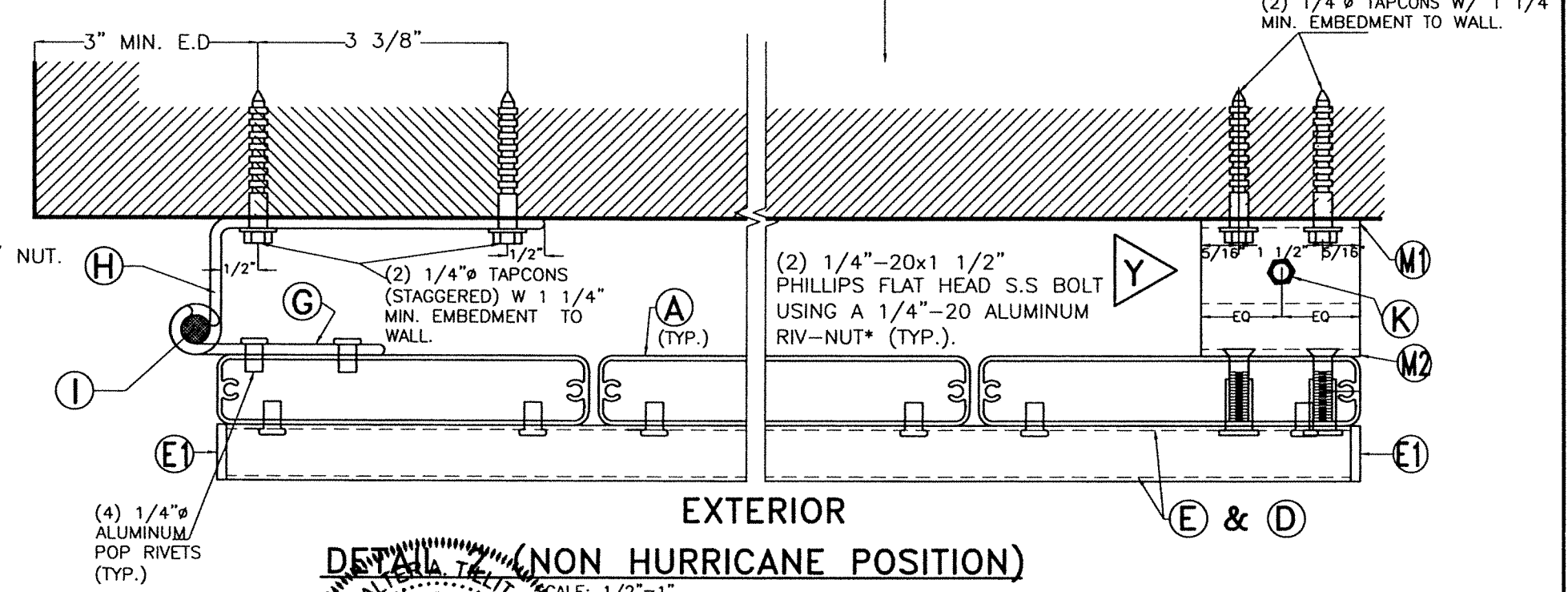
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SHEET 4 OF 13



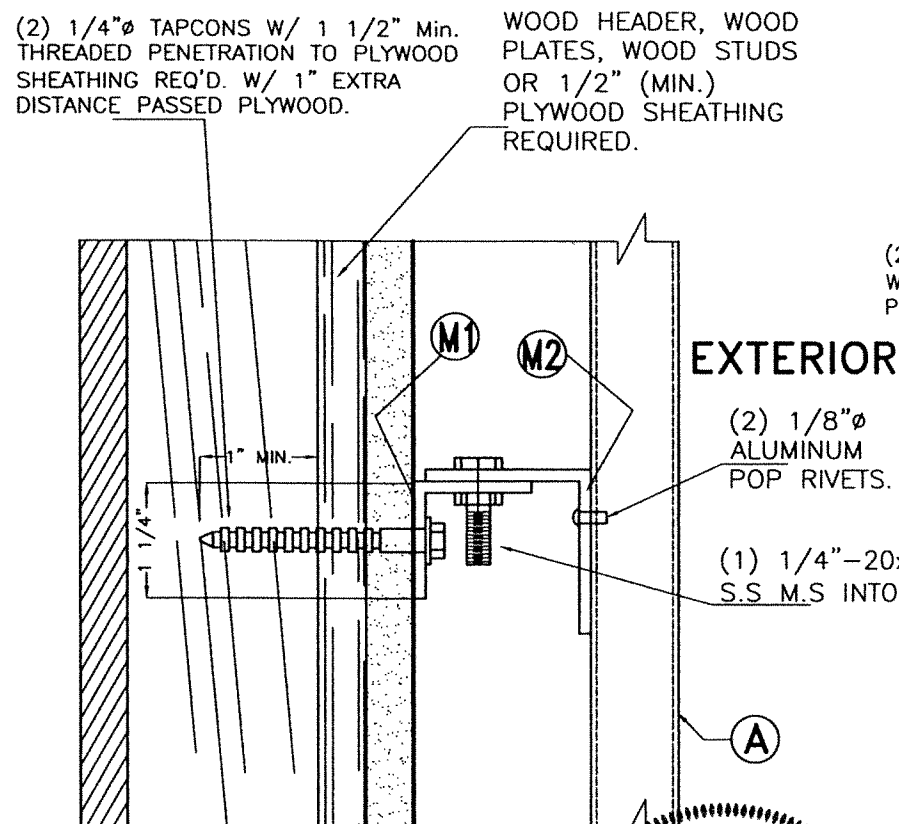
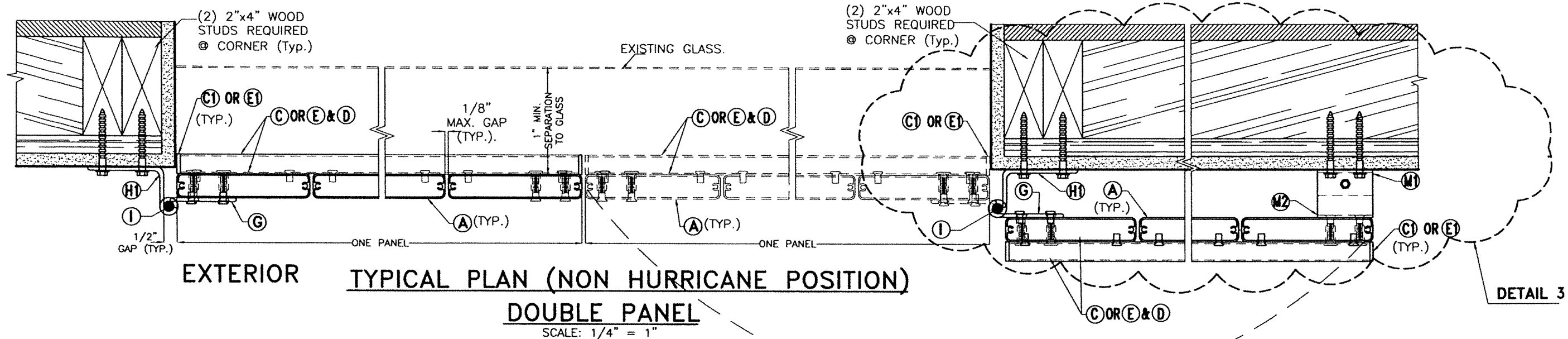
ELEVATION Y-Y
SCALE: 1/2"=1"



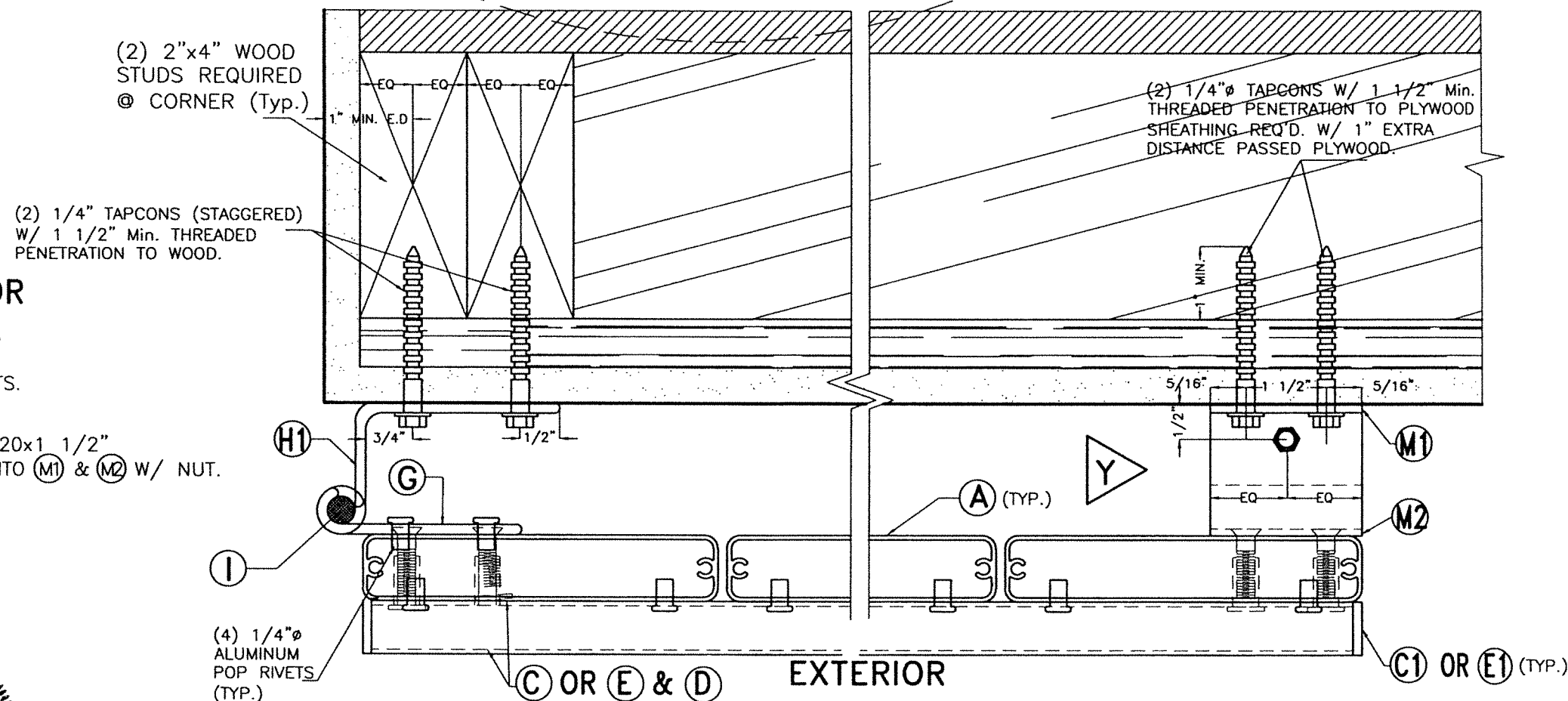
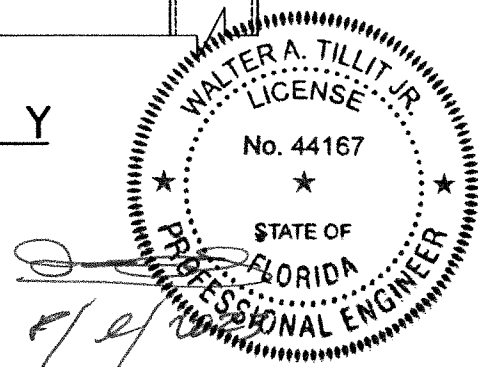
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8/9/2023

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
BERTHA HV BOARD AND BATTEN SHUTTER					Y.M. DRAWN BY:
EASTERN METAL SUPPLY, INC					8/9/2023 DATE:
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)209-8263 FAX: (561)841-1716					23-159 DRAWING No
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1	OLD 20-188	8/9/2023	3	-	-
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ELEVATION Y
SCALE: 1/2"=1"



DETAIL 3 (NON HURRICANE POSITION)
SCALE: 1/2"=1"

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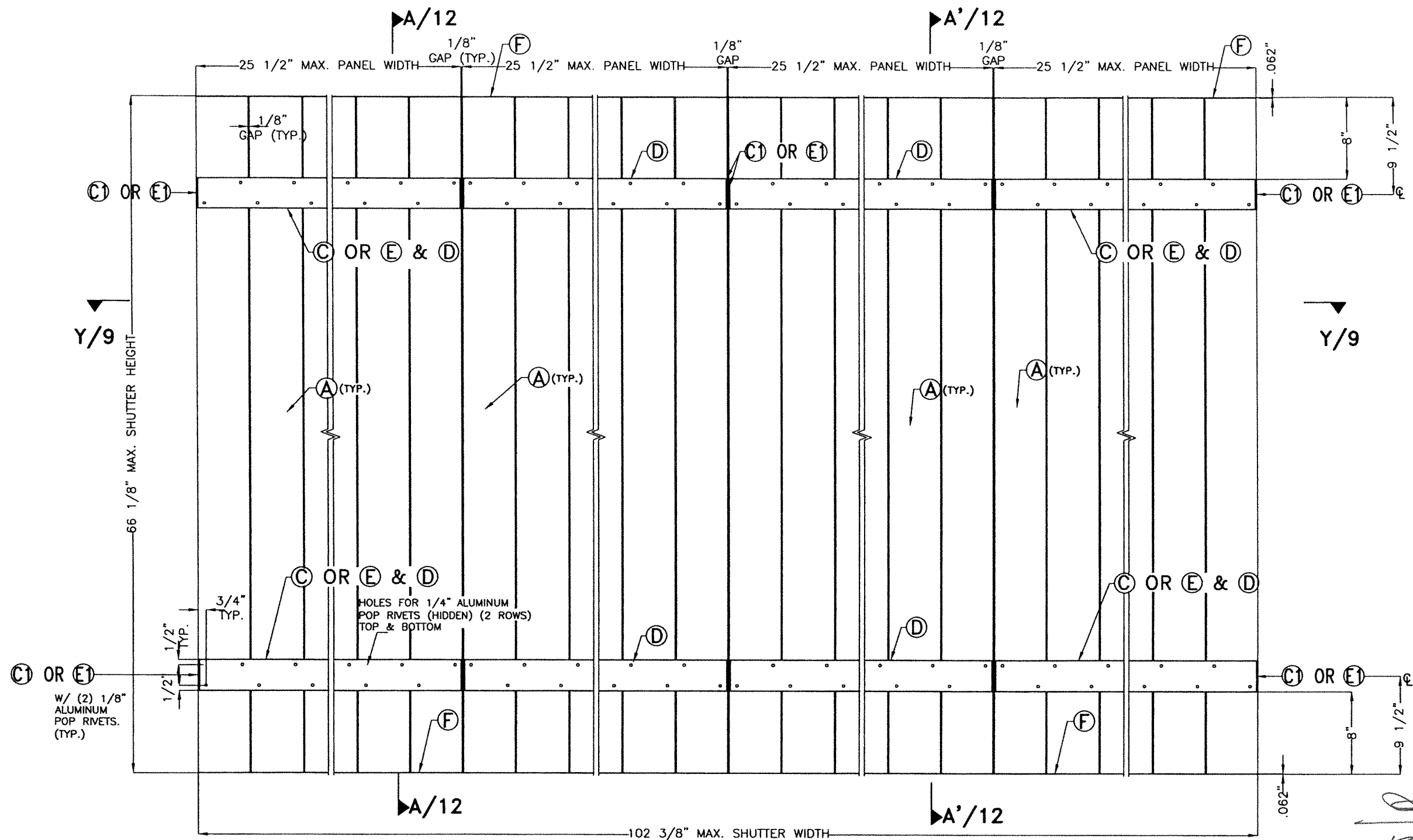
BERTHA HV BOARD AND BATTEN SHUTTER
EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)209-8263
FAX: (561)841-1716

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2	-	-	4	-	-

Y.M.
DRAWN BY:
8/9/2023
DATE:

23-159
DRAWING No

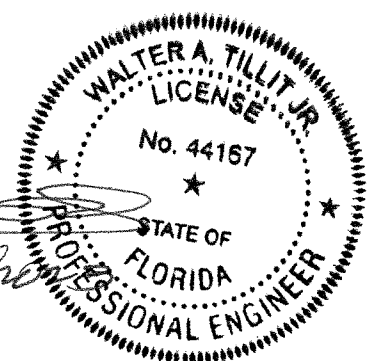
SHEET 6 OF 13



**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)

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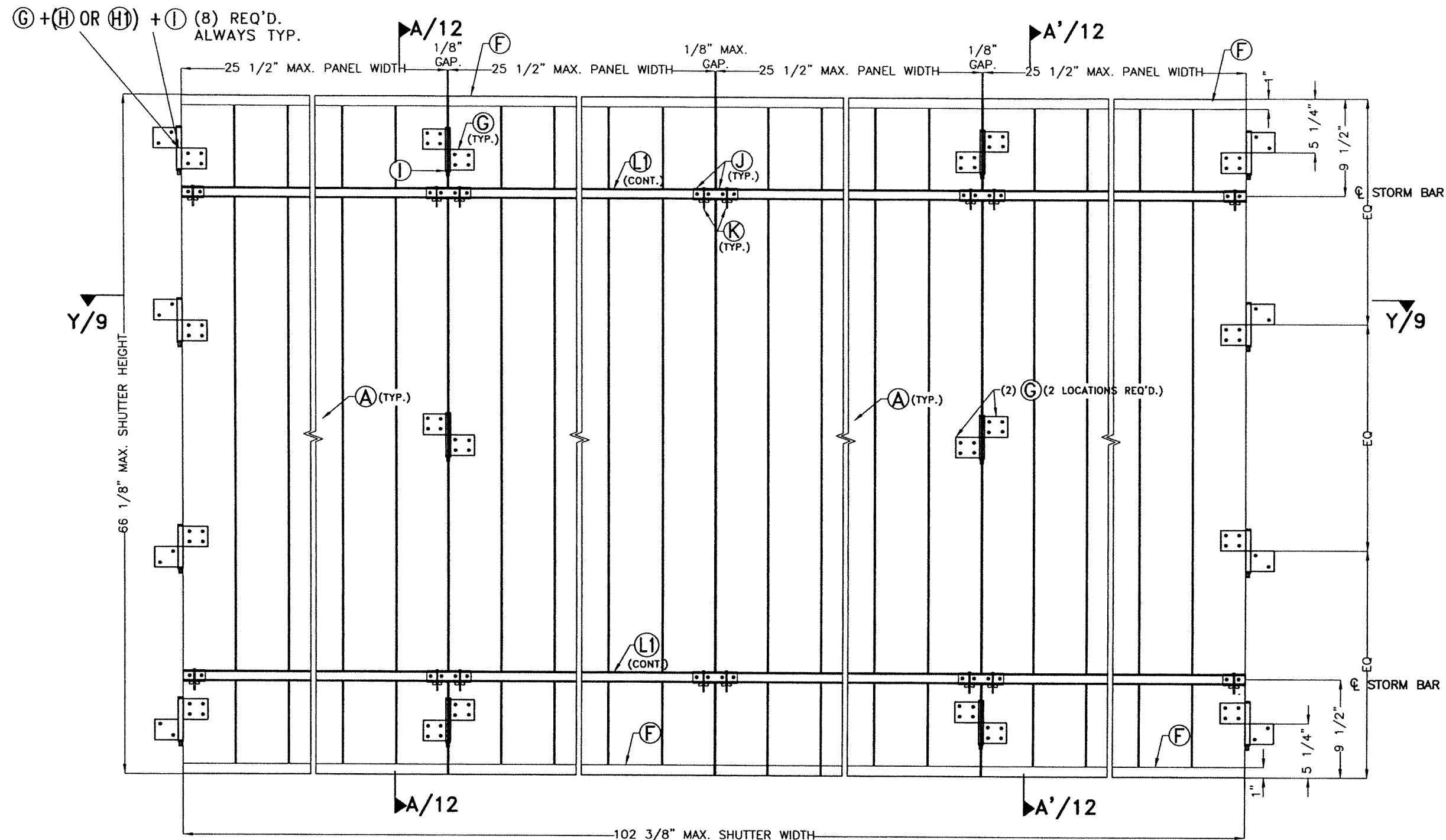
TILLIT TESTING & ENGINEERING COMPANY
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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**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

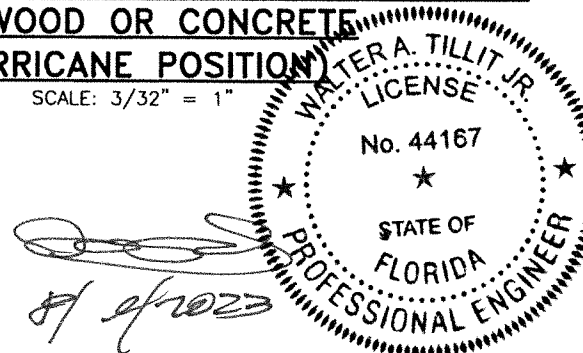
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Y.M.
DRAWN BY:
8/9/2023
DATE:
23-159
DRAWING No
SHEET 7 OF 13



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

SCALE: 3/32" = 1"



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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

**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

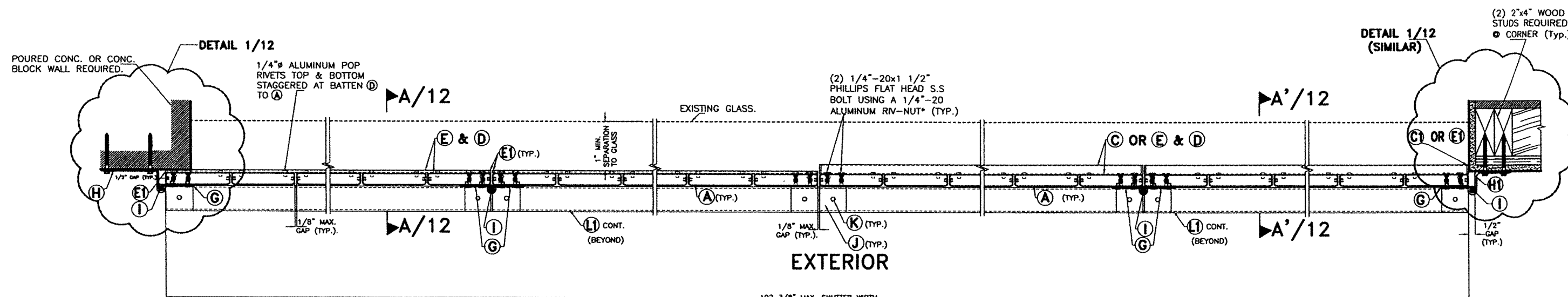
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-188	8/9/2023	3	-	-
2	-	-	4	-	-

Y.M.
DRAWN BY:

8/9/2023
DATE:

23-159
DRAWING No

SHEET 8 OF 13



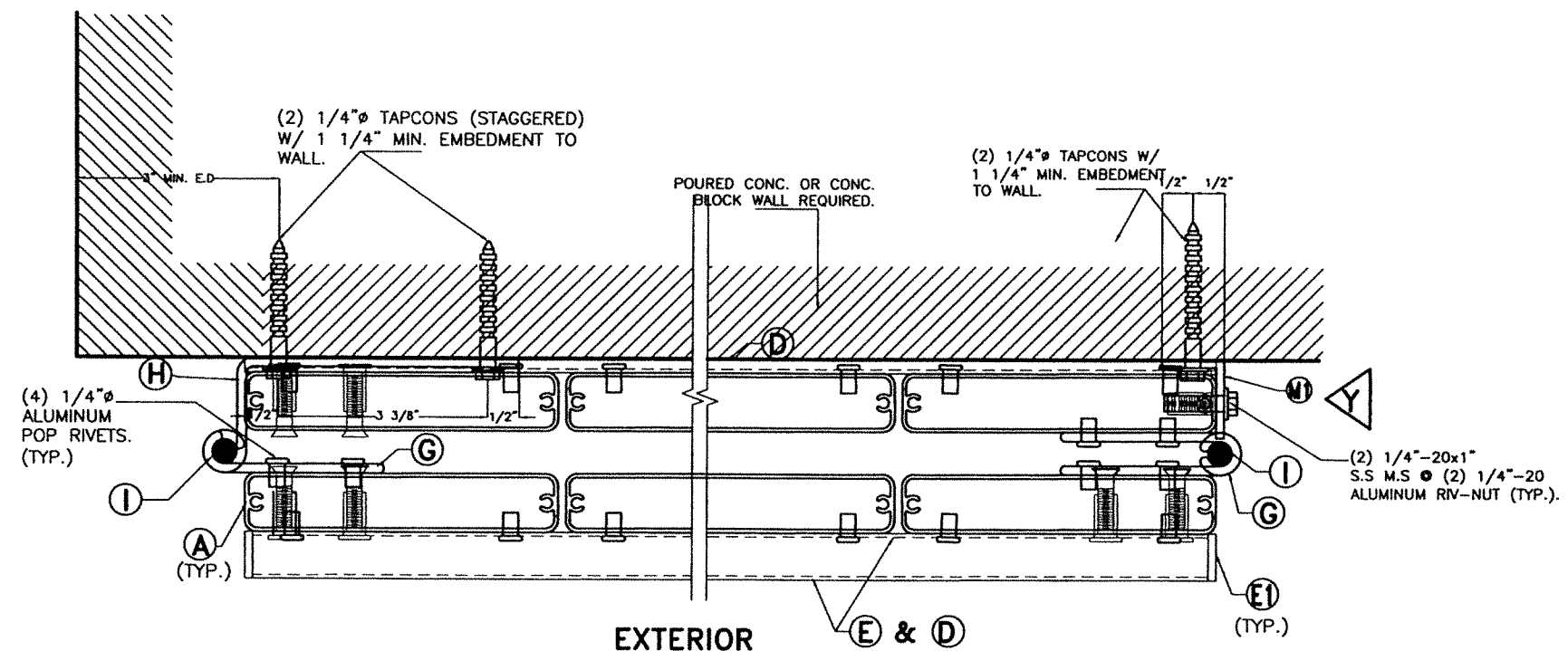
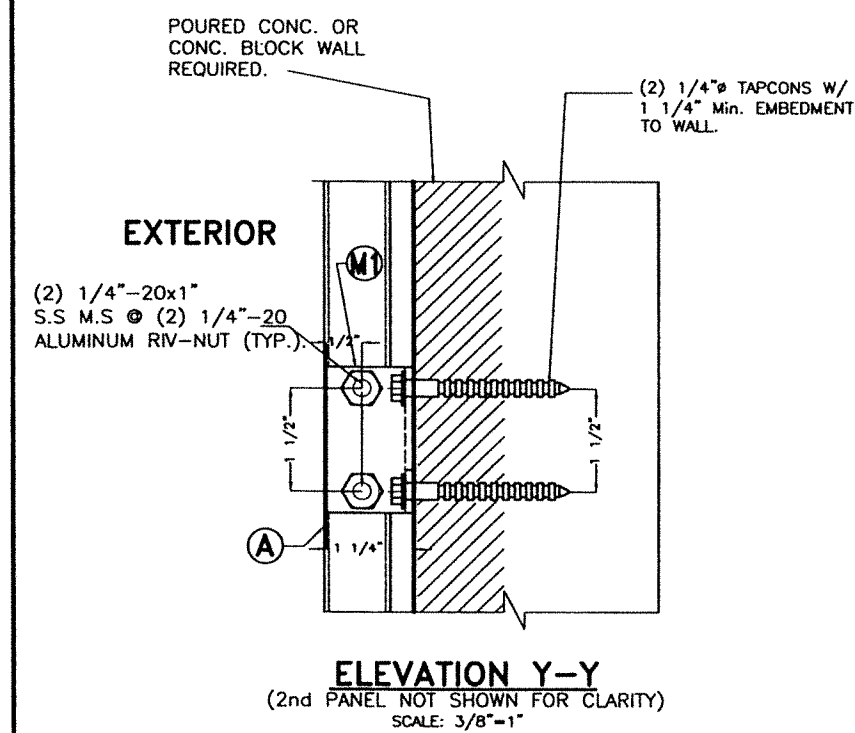
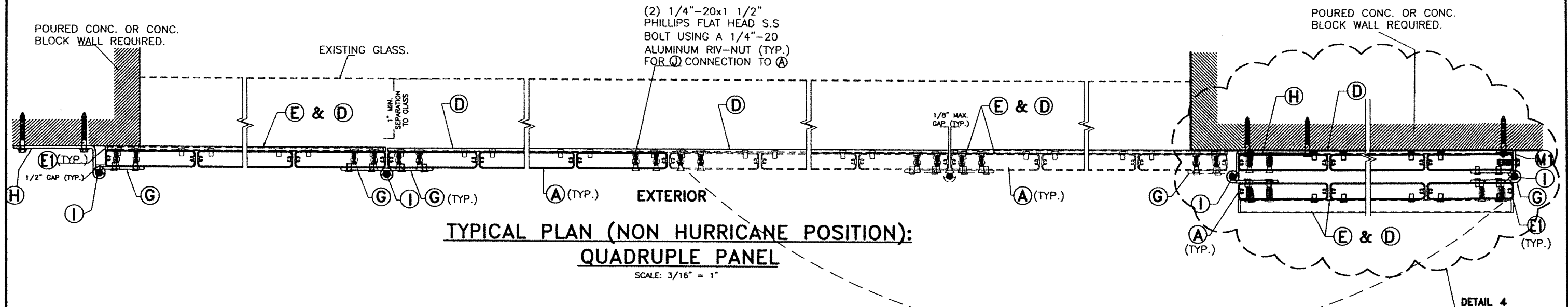
SECTION Y-Y @ QUADRUPLE PANEL

SCALE: 1/8" = 1"

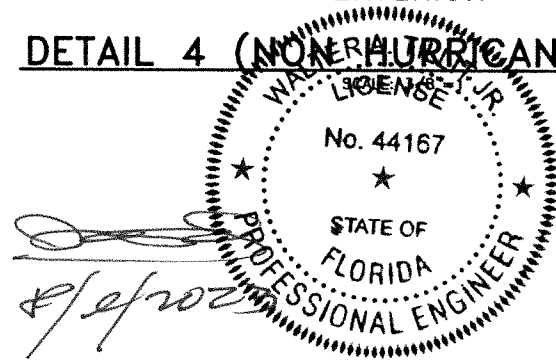
* ALUMINUM RIV-NUT AS MANUFACTURED BY AVDEL CHERRY TEXTORN, PARSIPPENY NEW JERSEY 07054 OR EQUAL.

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8/9/2023

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
© 2023 TILTECO, INC. TILTECO INC. 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			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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1	OLD 20-188	8/9/2023	3	-	-
2	-	-	4	-	-
			Y.M. DRAWN BY: 8/9/2023 DATE: 23-159 DRAWING No SHEET 9 OF 13		



DETAIL 4 (NON HURRICANE POSITION)



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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

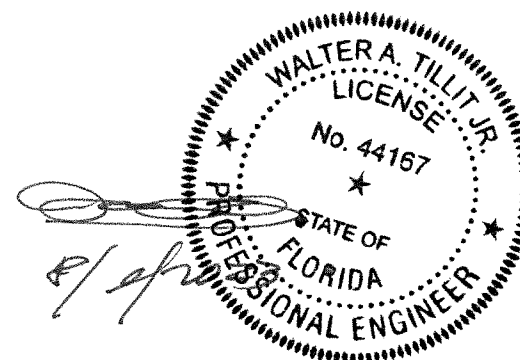
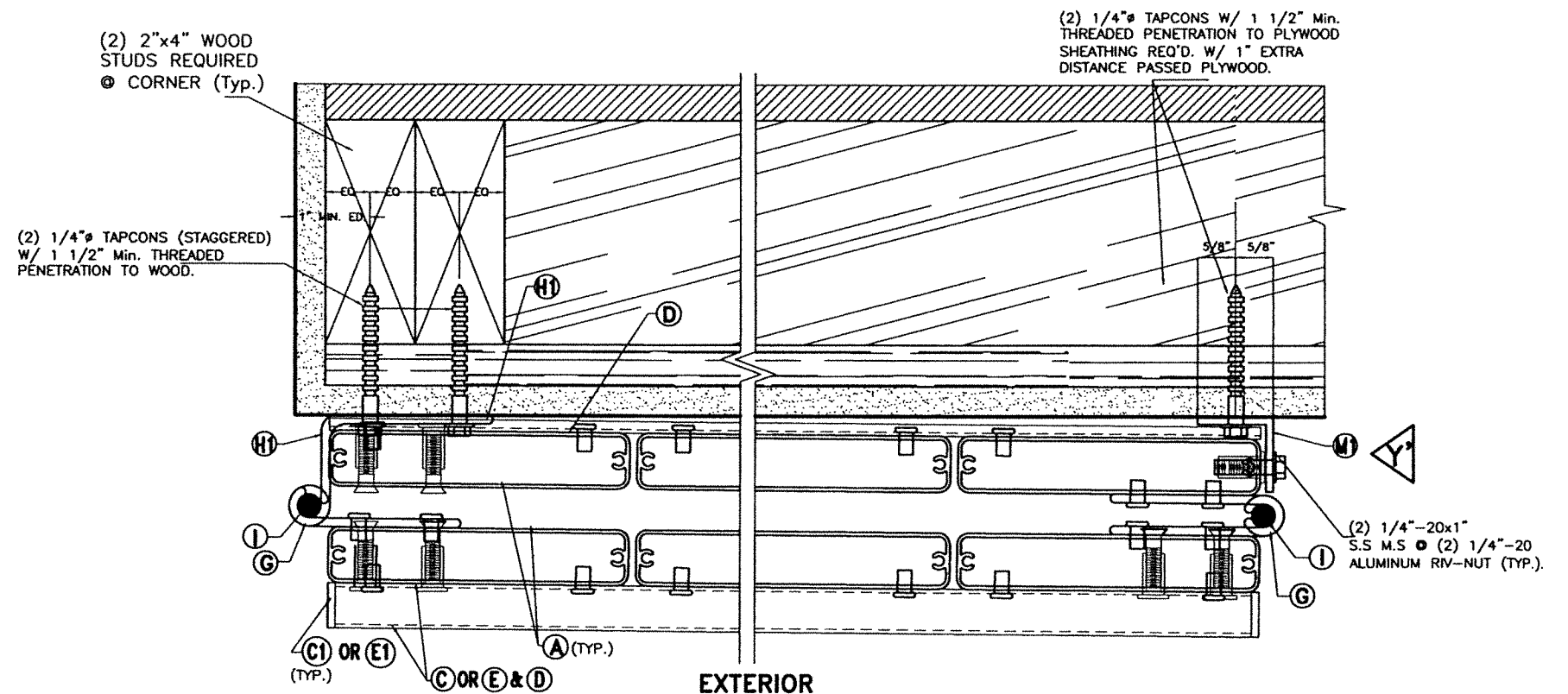
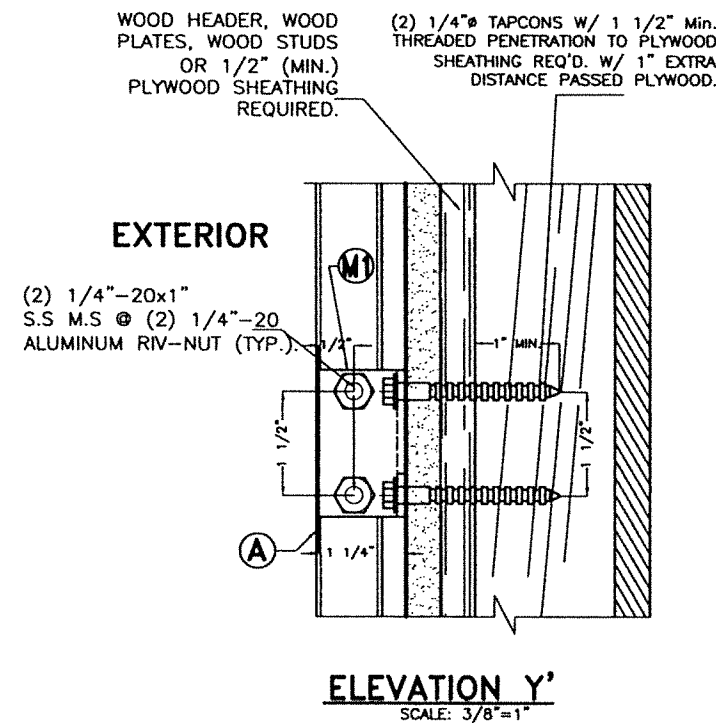
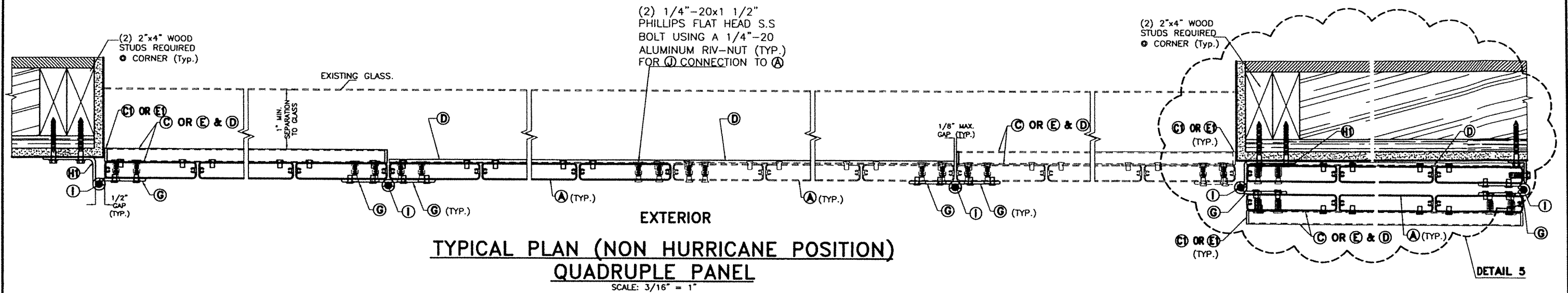
BERTHA HV BOARD AND BATTEN SHUTTER

EASTERN METAL SUPPLY, INC

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

Y.M.
DRAWN BY:
8/9/2023
DATE:
23-159
DRAWING No
SHEET 10 OF 13

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-188	8/9/2023	3	-	-
2	-	-	4	-	-



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BERTHA HV BOARD AND BATTEN SHUTTER

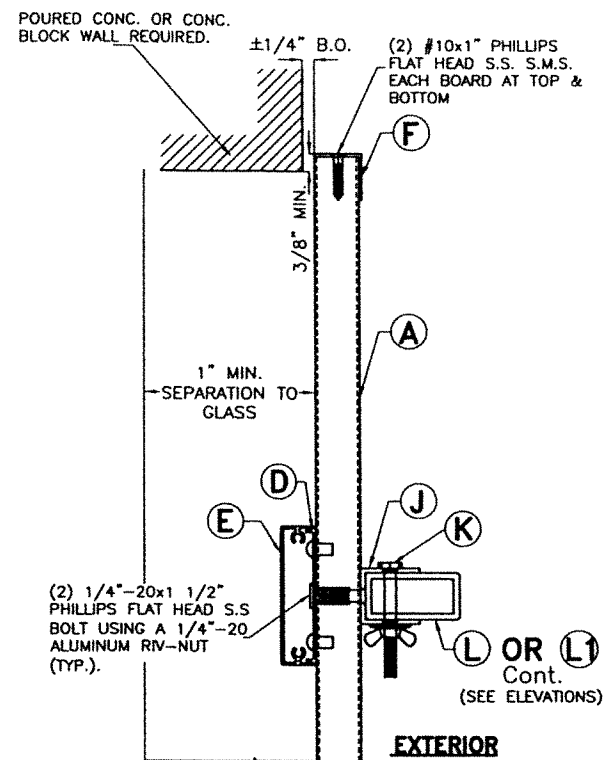
EASTERN METAL SUPPLY, INC

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

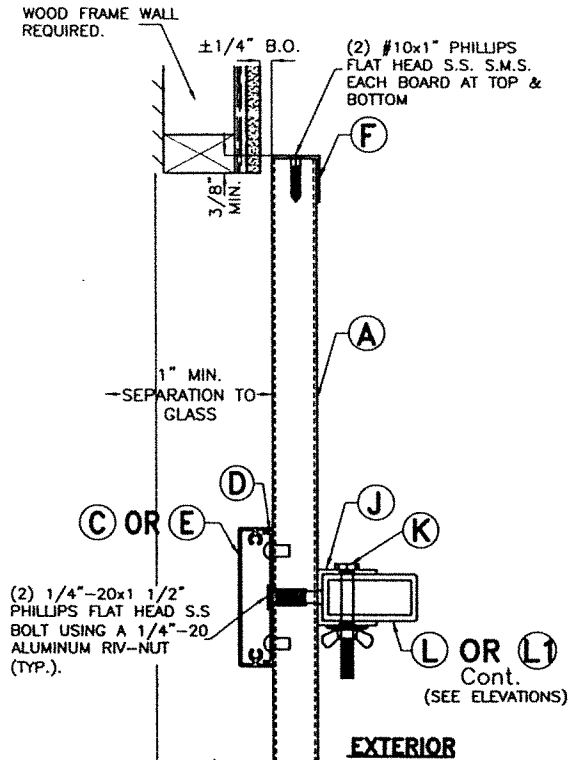
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

Y.M.
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DRAWING No

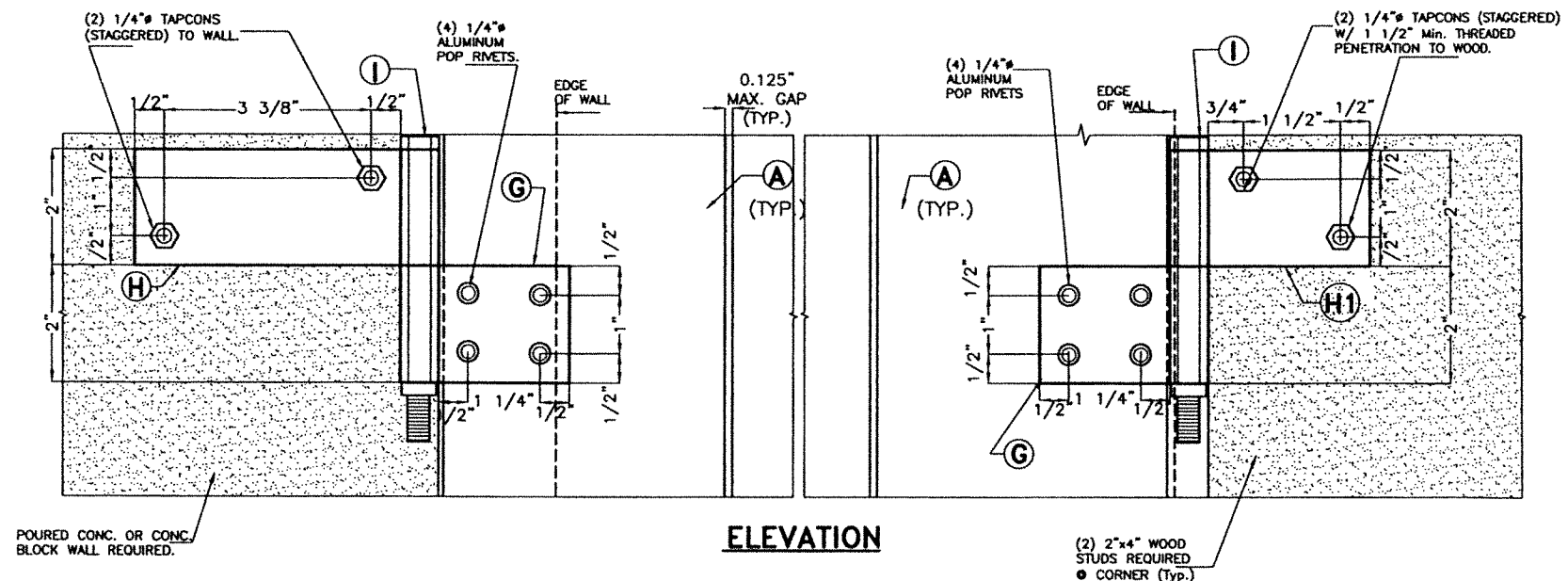
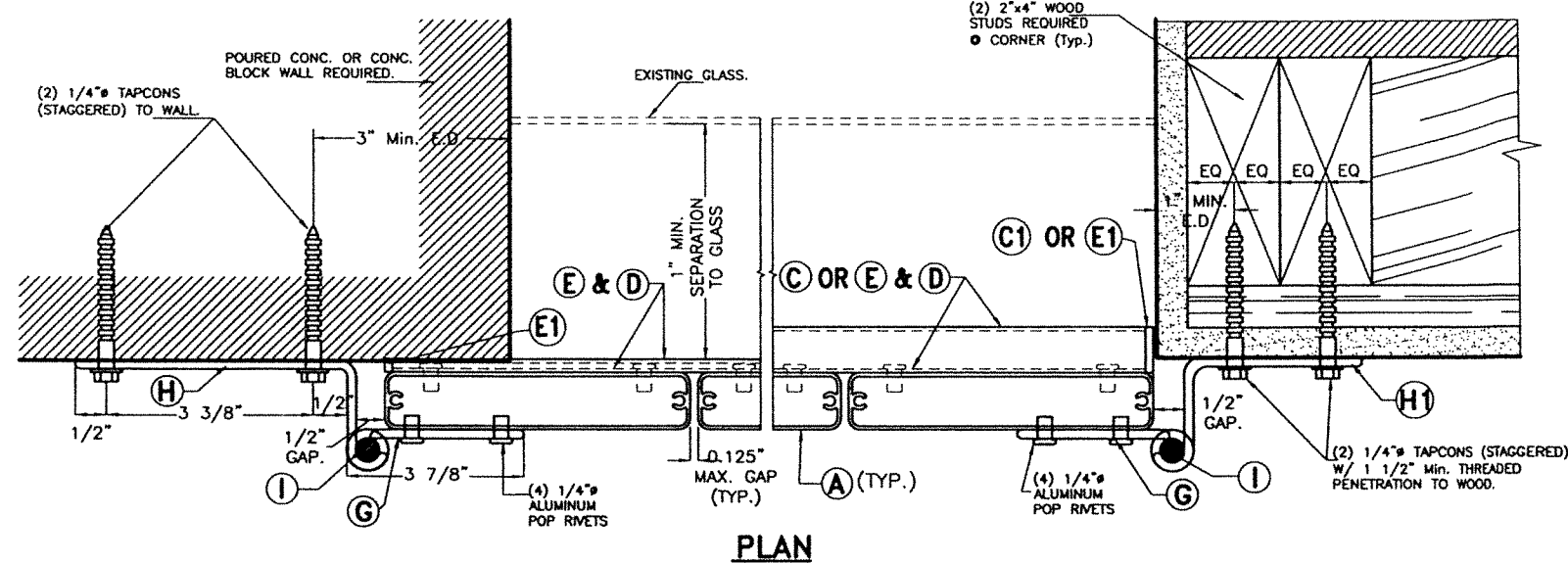
SHEET 11 OF 13



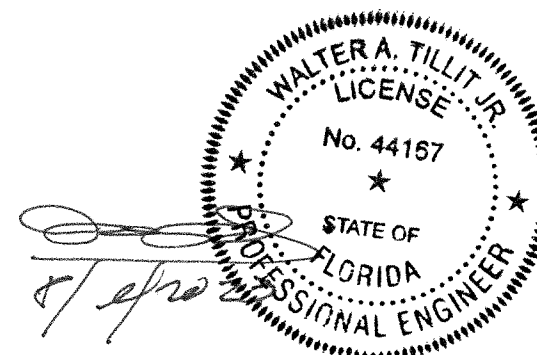
SECTION A-A
SCALE: 1/4" = 1"



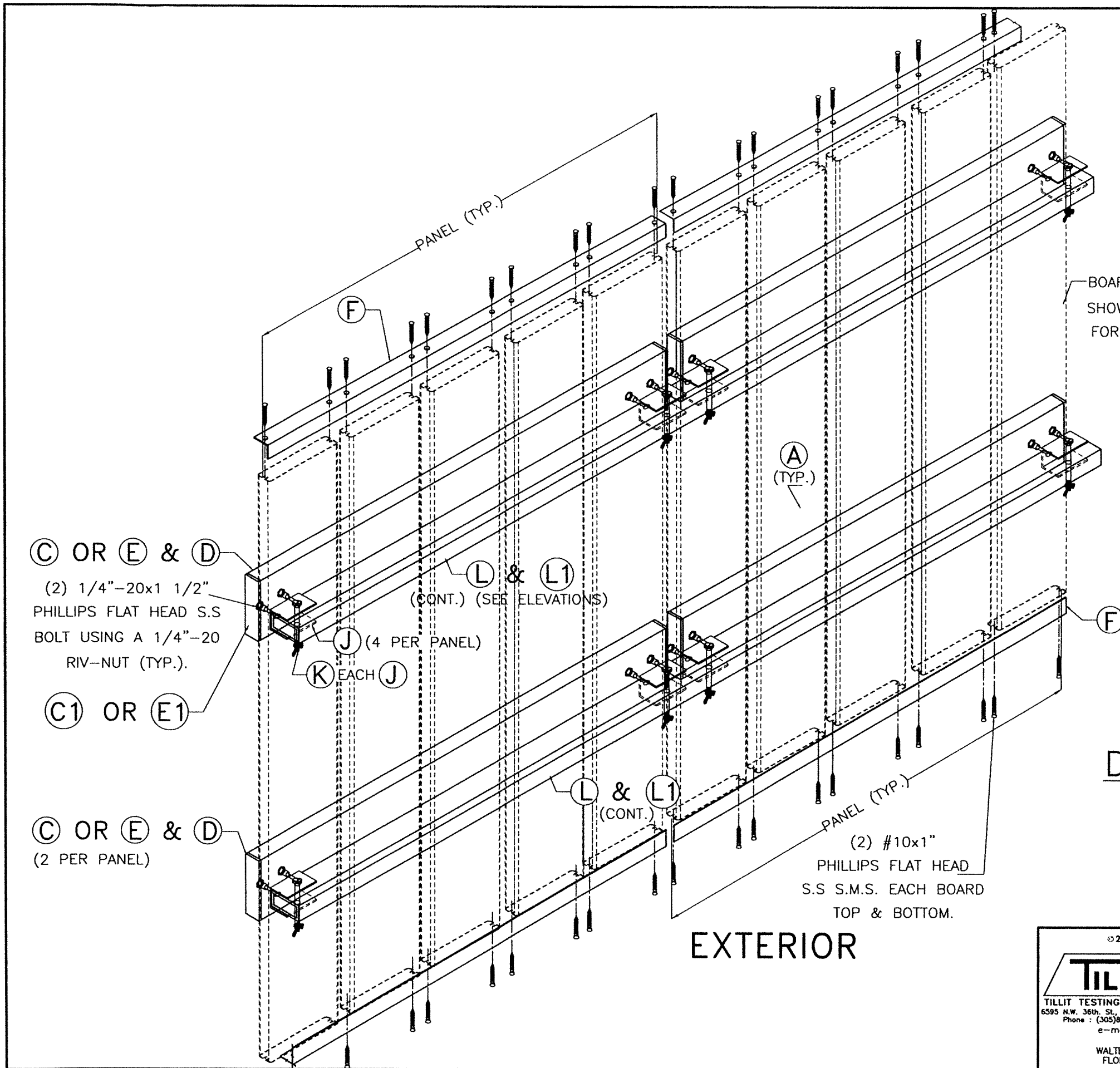
SECTION A'-A'
SCALE: 1/4" = 1"



DETAIL 1
SCALE: 3/8" = 1"



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2	-	-	4	-	-



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

(C1) OR (E1)

(C) OR (E) & (D)
(2 PER PANEL)

(L) & (L1)
(CONT.) (SEE ELEVATIONS)

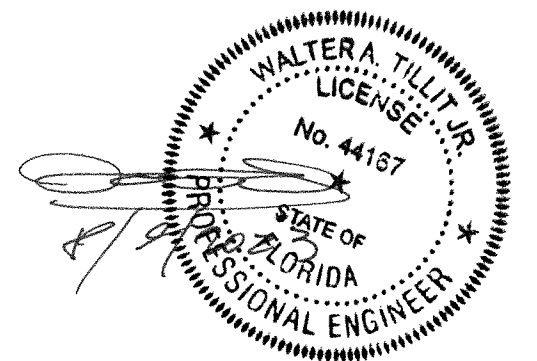
(J) (4 PER PANEL)

(K) EACH (J)

(L) & (L1)
(CONT.)

(2) #10x1"
PHILLIPS FLAT HEAD
S.S. S.M.S. EACH BOARD
TOP & BOTTOM.

BOARD (A)
SHOWN DOTTED
FOR CLARITY



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

N.T.S

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BERTHA HV BOARD AND BATTEN SHUTTER						Y.M. DRAWN BY:	
EASTERN METAL SUPPLY, INC						8/9/2023 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)209-8263 FAX: (561)841-1716						23-159 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 13 OF 13	
1	OLD 20-188	8/9/2023	3	-	-		
2	-	-	4	-	-		