

GENERAL NOTES:

1. BERTHA COLONIAL 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 COLONIAL SHUTTER MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION **1620** OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THESE SHUTTERS WILL BE INSTALLED FOR A DIRECTIONALITY FACTOR $K_d=0.85$. **USING ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

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.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. 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 SCREW SPACING, PER ANSI/AWC NDS-24.

BERTHA COLONIAL SHUTTER'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1626** OF THE ABOVE MENTIONED CODE AS PER AMERICAN TESTING LABORATORY OF SOUTH FLORIDA REPORT # 0926.01-07 AND PER PROTOCOLS TAS 201, 202 & 203. IMPACT MISSILE IS 9Lb, 2"x4", 50 Ft/Sec.

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). 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 WITH FLORIDA BUILDING CODE SECTIONS 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 SHALL BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.

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

- (A) TO EXISTING WOOD FRAME WALL: SOUTHERN PINE No.2, $G=0.55$.
- 1/4"Ø ULTRACON+ OR ULTRACON SS4 ANCHORS AS MANUFACTURED BY DEWALT.

NOTES:

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

A.2) IN CASE THAT PRECAST STONE, PLYWOOD 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. ($f'c = 3192$ p.s.i) OR ASTM C-90 CONCRETE BLOCK
- 1/4" Ø ULTRACON+ OR ULTRACON SS4 ANCHORS AS MANUFACTURED BY DEWALT.

NOTES:

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

B.2) IN CASE THAT PRECAST STONE, STUCCO 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. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.

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

9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED TO ENSURE PROPER ANCHORAGE. THE CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.

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

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

12. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE COLONIAL SHUTTER IN ACCORDANCE WITH SECTION 1709.9.2 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

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.

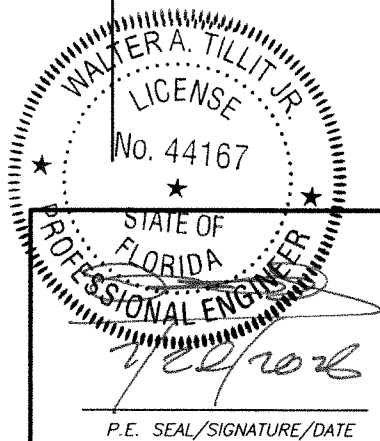
(b) THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS PRODUCT EVALUATION DOCUMENT, PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(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.

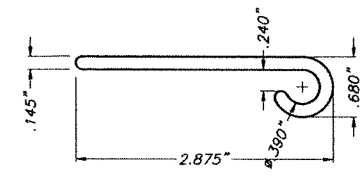
(e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

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

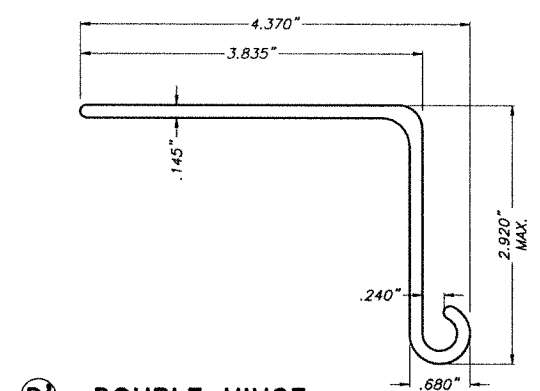


FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

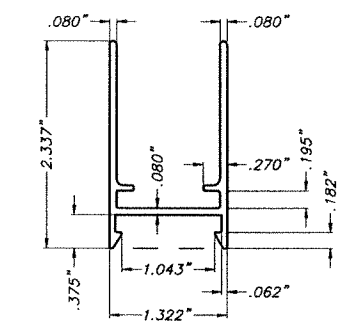
ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				26-101 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-
					SHEET 1 OF 14



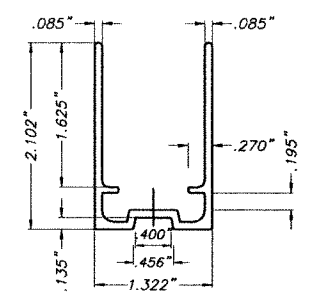
B' FLAT HINGE
ALUMINUM EXTRUSION 2.375" LONG AT **D**



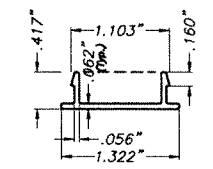
D' DOUBLE HINGE
ALUMINUM EXTRUSION, 2.375" LONG



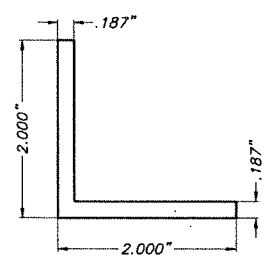
E COLONIAL FRAME
ALUMINUM EXTRUSION



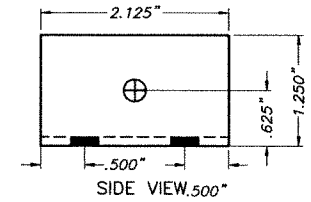
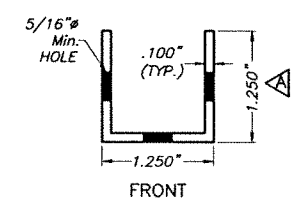
E1 ALTERNATE COLONIAL FRAME
ALUMINUM EXTRUSION



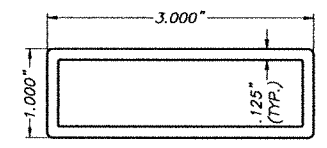
F SNAP CAP
ALUMINUM EXTRUSION



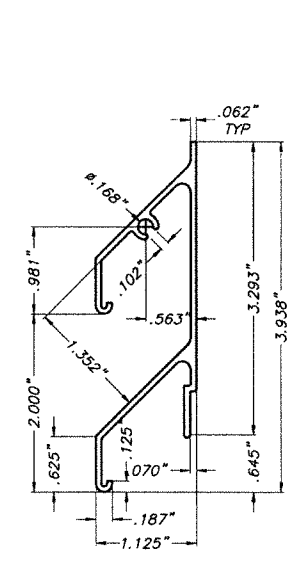
G CORNER KEY
1 1/8" LONG
ALUMINUM EXTRUSION



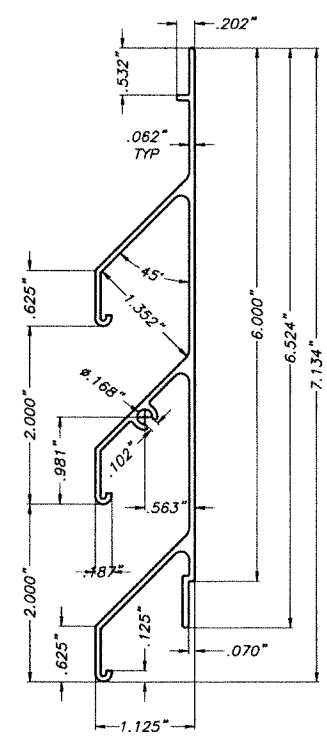
N H.V. STORM BAR CLIP
2 1/8" LONG.
ALUMINUM EXTRUSION



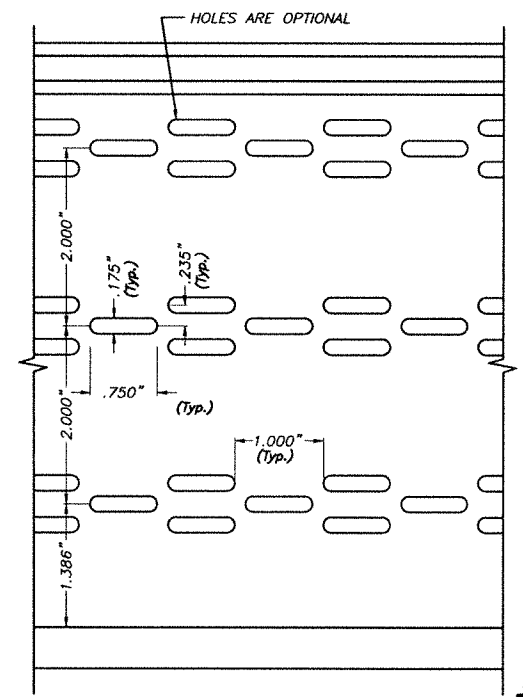
Q1 STORM BAR TYPE 2
ALUMINUM EXTRUSION



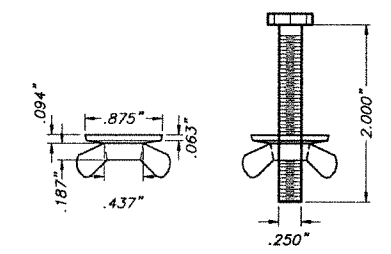
H HALF SHUTTER BLADE
ALUMINUM EXTRUSION



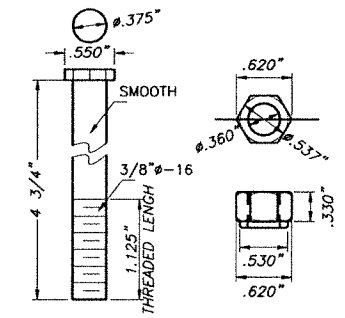
I SHUTTER BLADE
ALUMINUM EXTRUSION



SHUTTER BLADE ELEVATION
ALUMINUM EXTRUSION



Q1 1/4\"-20x2\" 304 SERIES S.S. HEX HEAD BOLT W/A DIE CAST (ZINC #7) NICKEL PLATED WASHER WINGNUT



Q2 ALUMINUM PIN FOR HINGE
6061-T6 ALUMINUM ALLOY

WALTER A. TILTECO COMPONENTS
LICENSE NO. 44167
SCALE 1/2" = 1"
P.E. SEAL/SIGNATURE/DATE

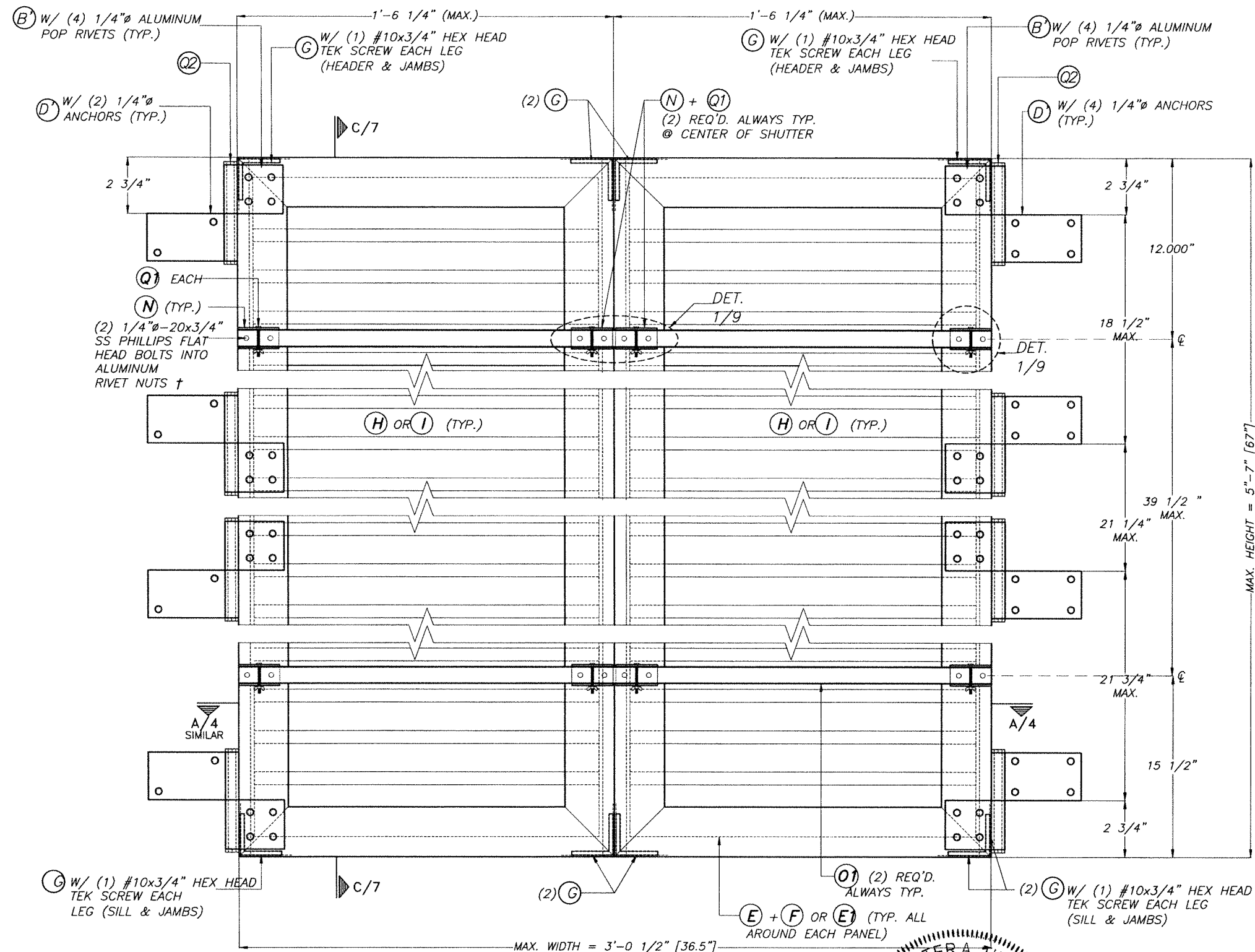
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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305)871-1530 , Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)
AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (800)432-2204
FAX: (561)209-8380

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-132	6/30/26	3	-	-
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W.H. DRAWN BY:
6/30/2026 DATE:
26-101
DRAWING No
SHEET 2 OF 14

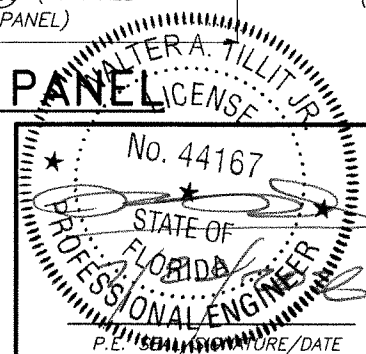


† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS
SCREW, BOLT & SPECIALTY CO.
(PART # 25CRFNA).

MAXIMUM A.S.D. DESIGN PRESSURE RATING = +60.0, -81.0 p.s.f. FOR
INSTALLATION INTO CONCRETE OR CONCRETE BLOCK WALL SUBSTRATE.

TYPICAL EXTERIOR ELEV. DOUBLE PANEL (HURRICANE POSITION)

SCALE: 3/16"=1"



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W.H.
DRAWN BY:

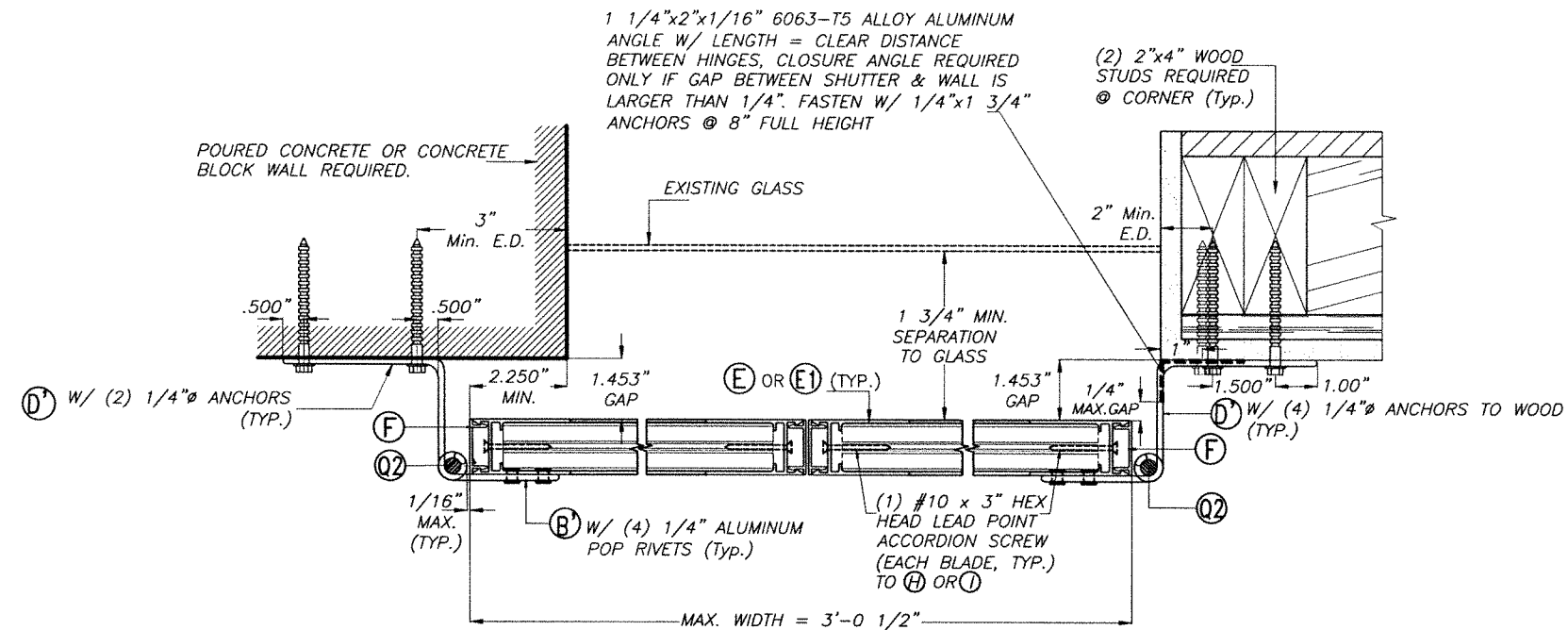
6/30/2026
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26-101

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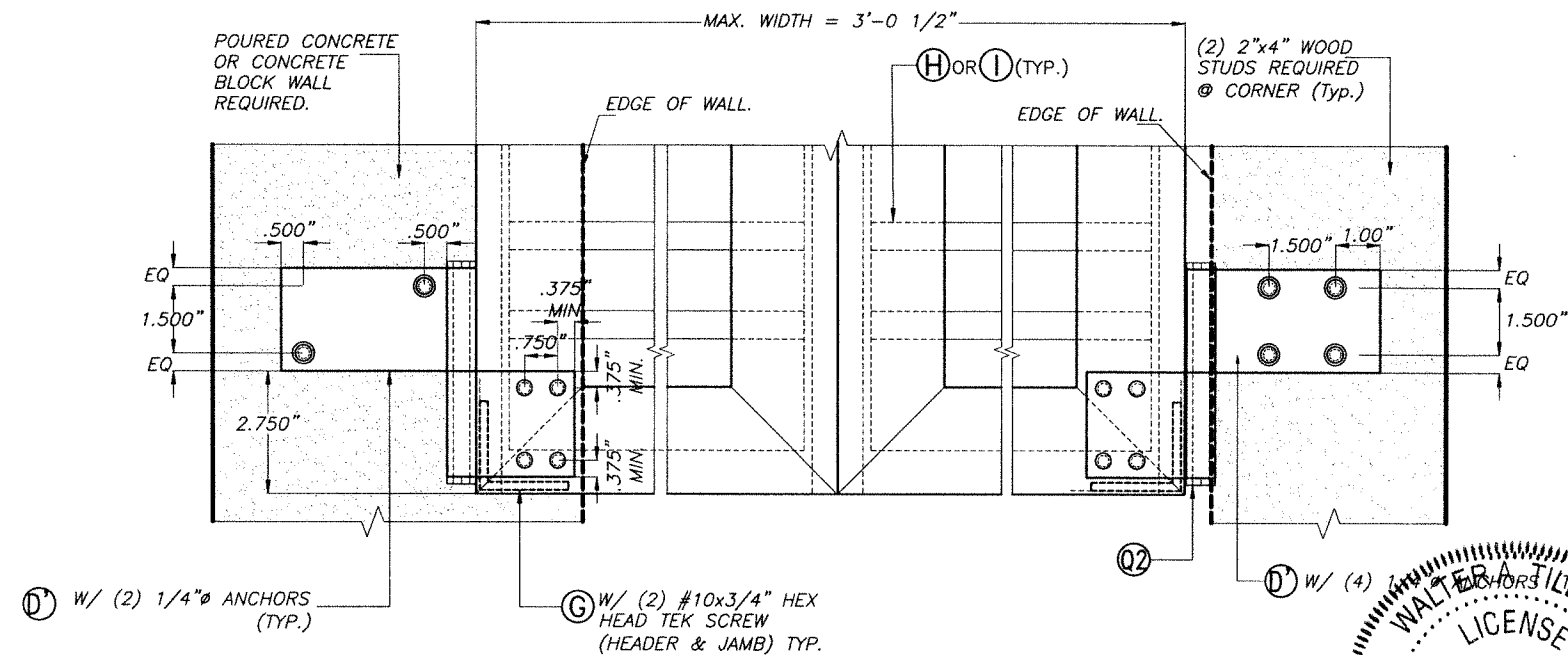
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SHEET 3 OF 14



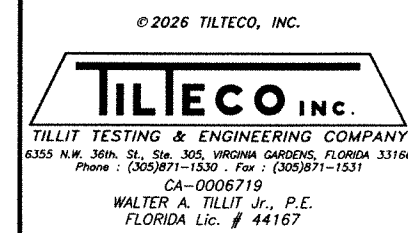
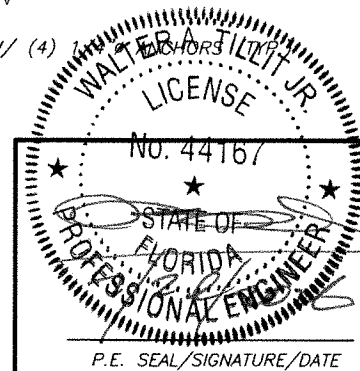
SECTION A-A

SCALE 1/4"=1"



VIEW 1 (PARTIAL ELEVATION)

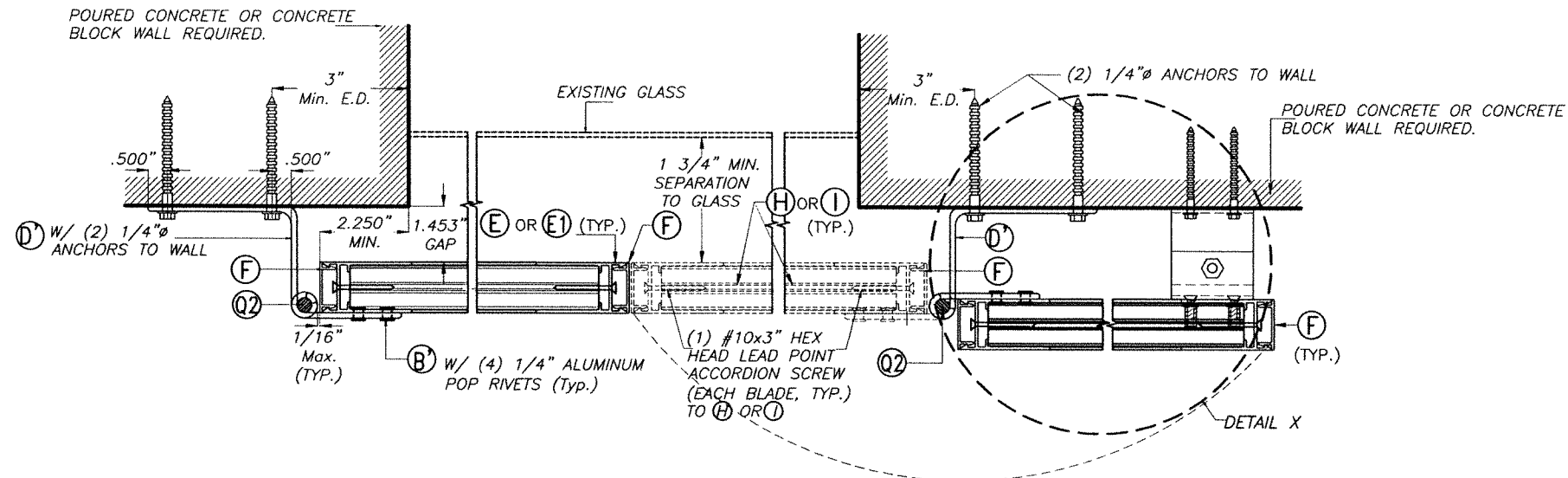
SCALE 1/4"=1"



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
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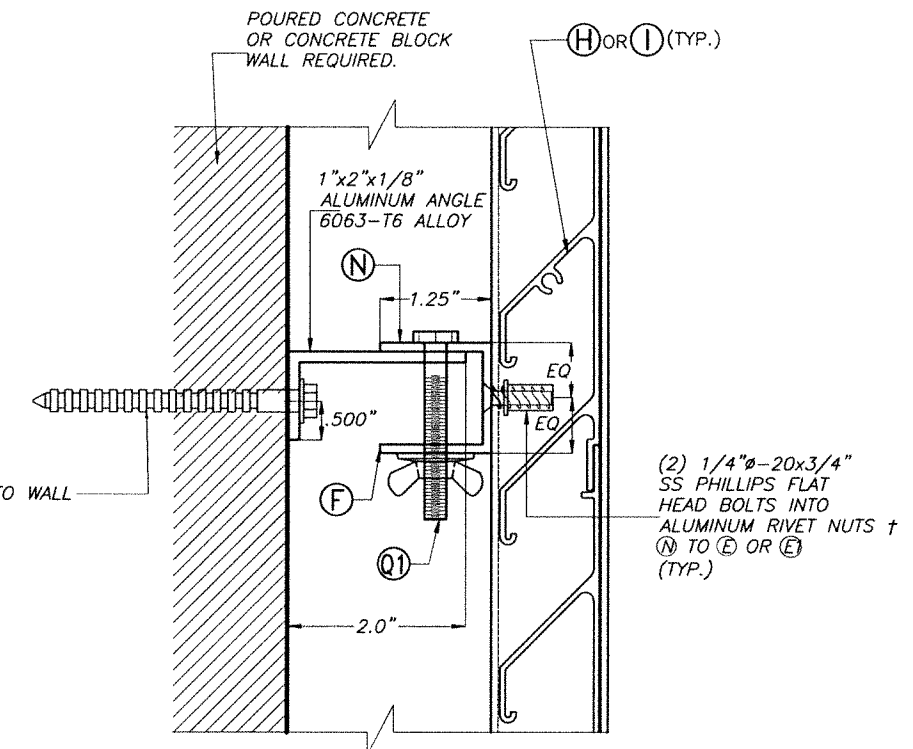
SHEET 4 OF 14



TYPICAL PLAN (NON HURRICANE POSITION)

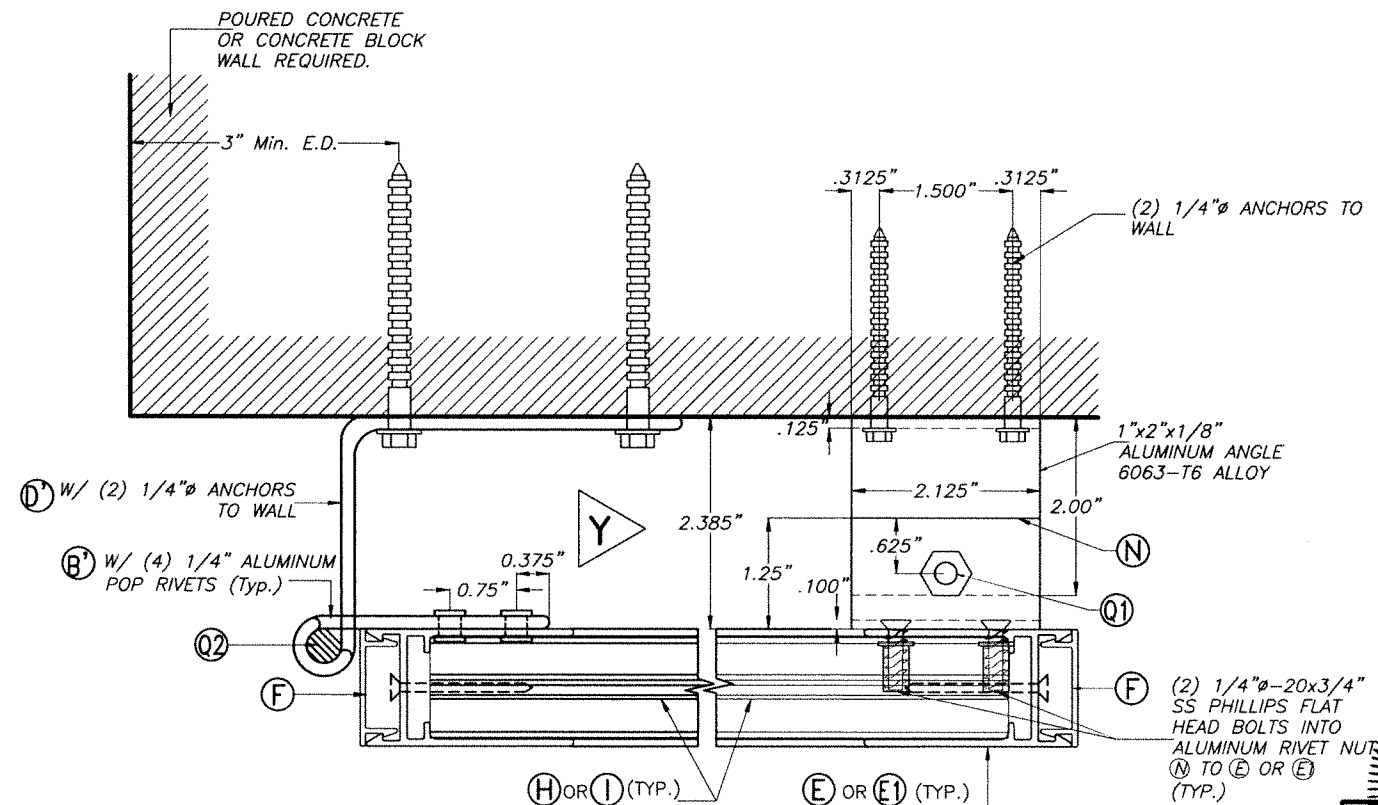
SCALE 1/4"=1"

† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS SCREW,
BOLT & SPECIALTY CO. (PART # 25CRFNA).



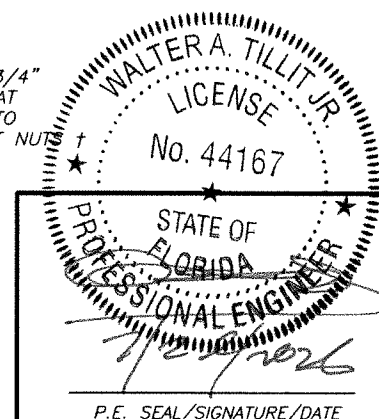
ELEVATION Y-Y

SCALE 1/8"=1"



DETAIL X (NON HURRICANE POSITION)

SCALE 1/8"=1"



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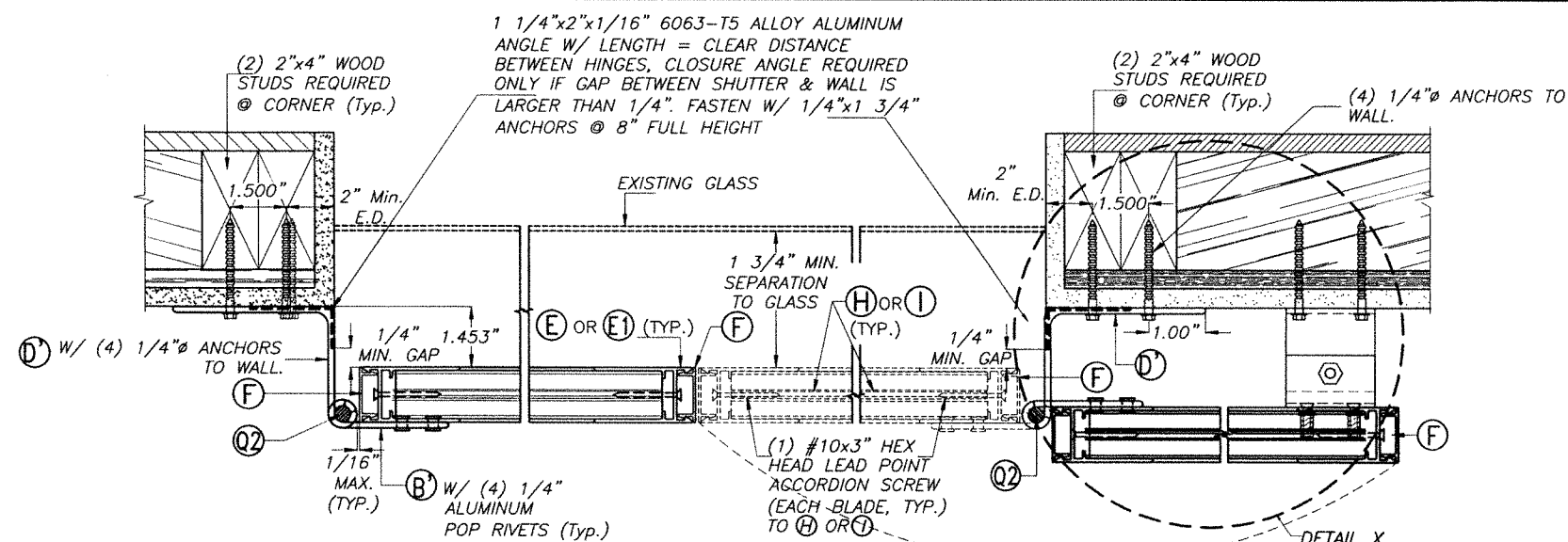
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
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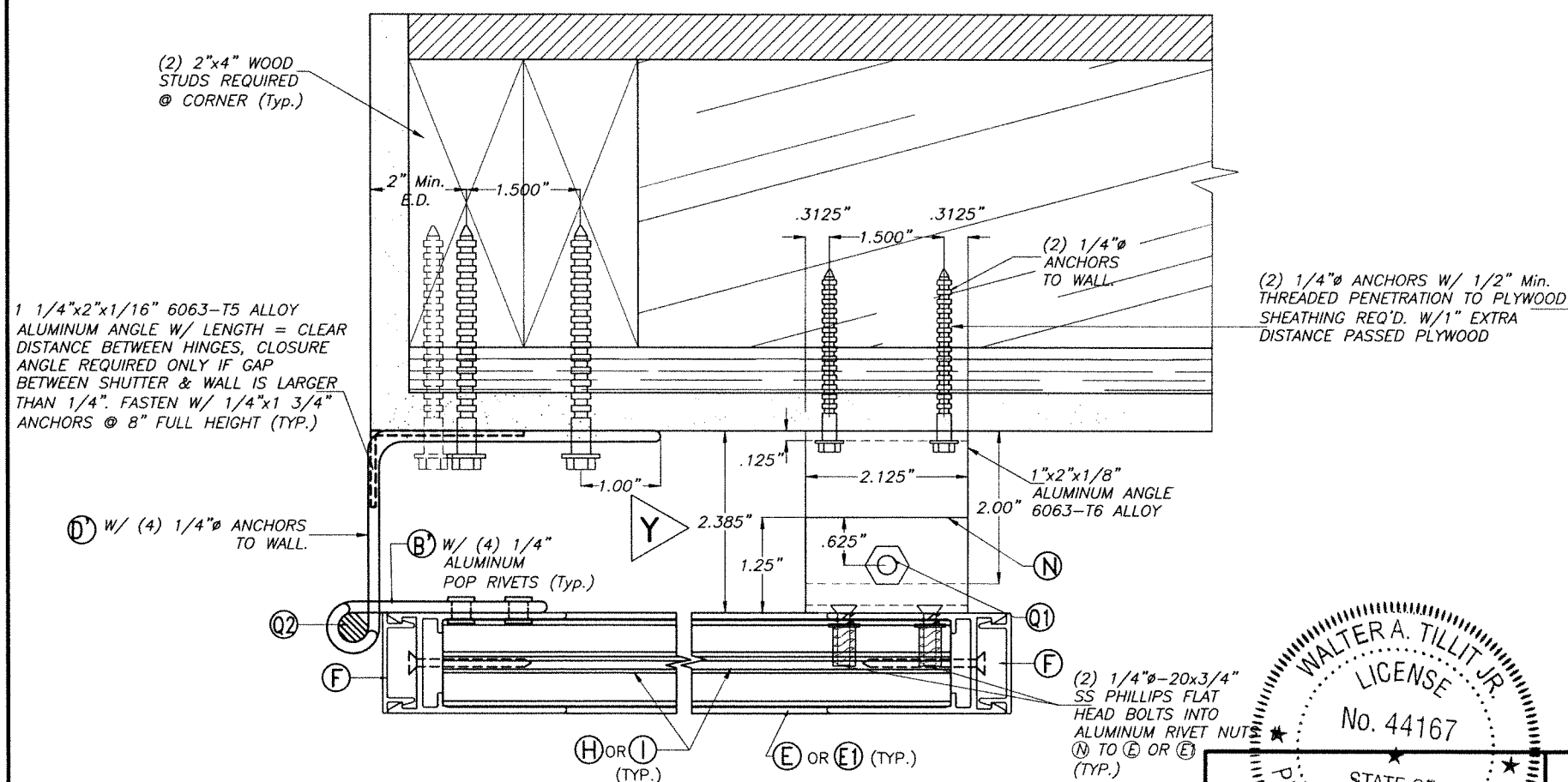
SHEET 5 OF 14



TYPICAL PLAN (NON HURRICANE POSITION)

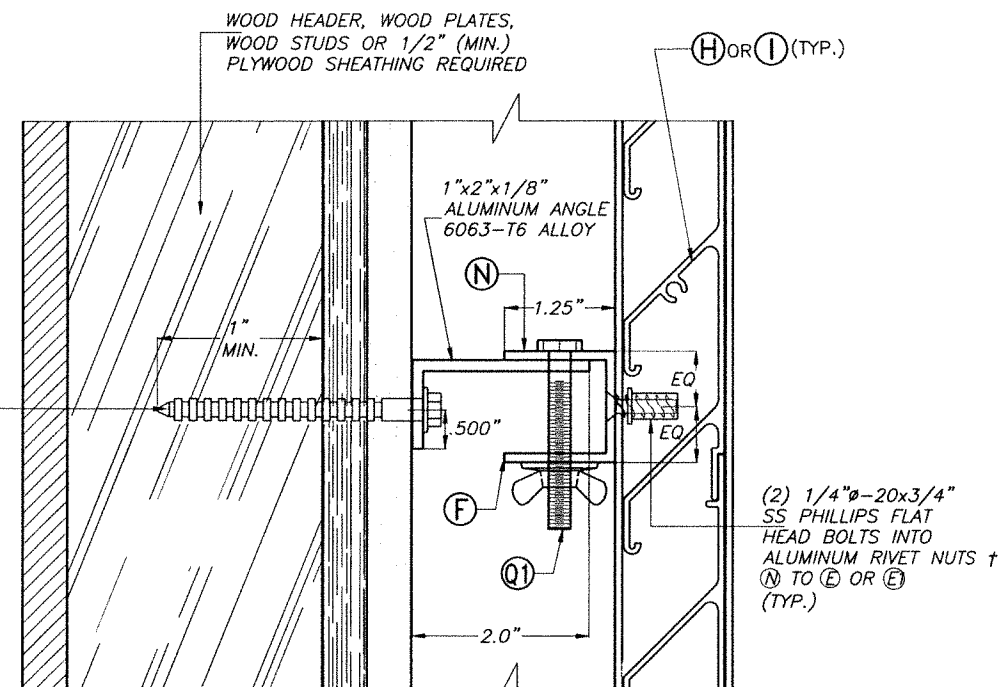
SCALE 1/4"=1"

† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS SCREW,
BOLT & SPECIALTY CO. (PART # 25CRFNA).



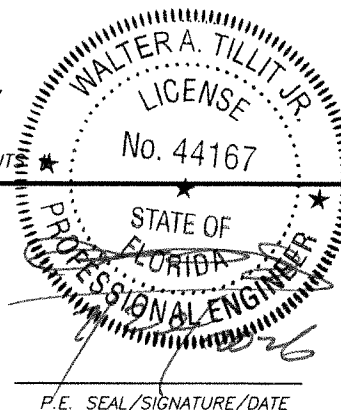
DETAIL X (NON HURRICANE POSITION)

SCALE 1/8"=1"



ELEVATION Y-Y

SCALE 1/8"=1"



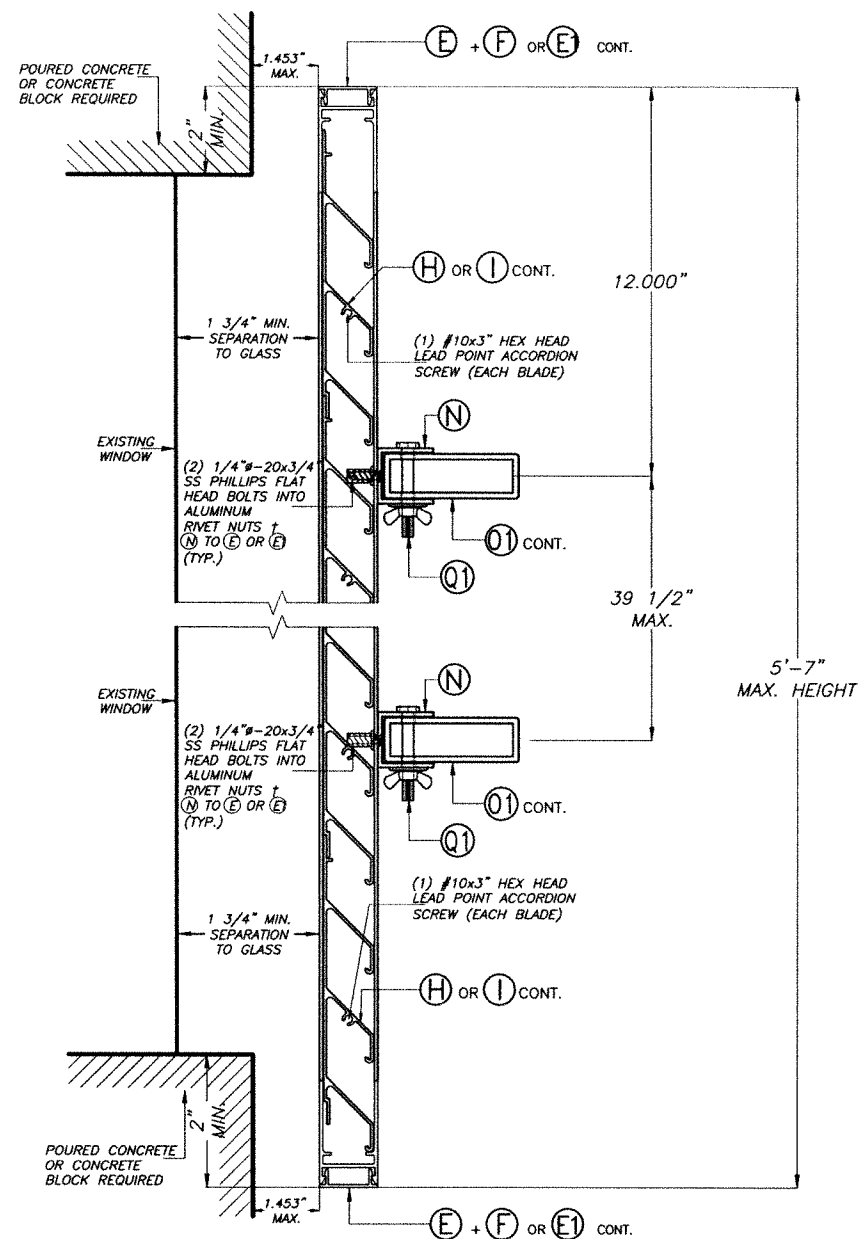
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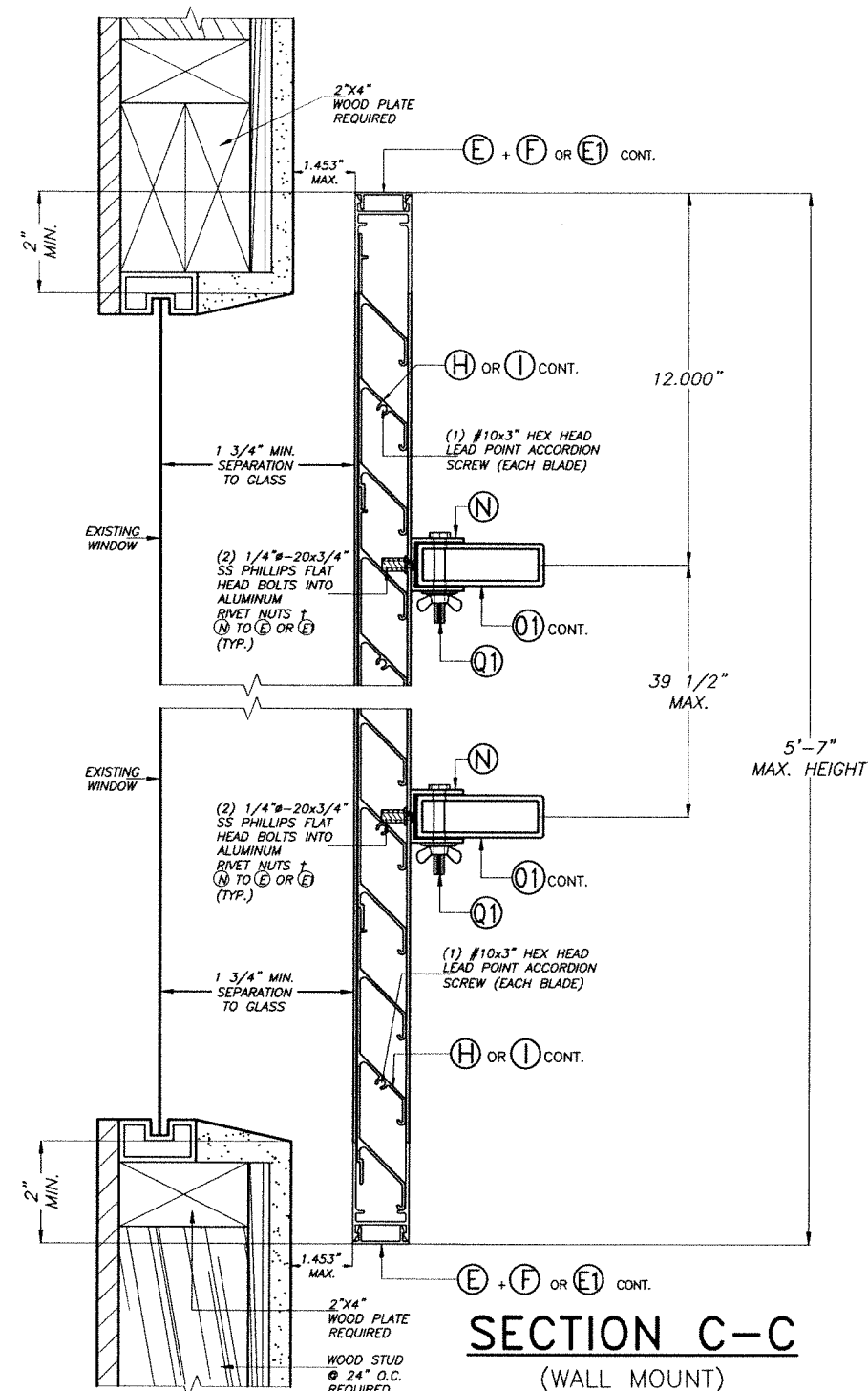
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W.H.
DRAWN BY:
6/30/2026
DATE:
26-101
DRAWING No
SHEET 6 OF 14

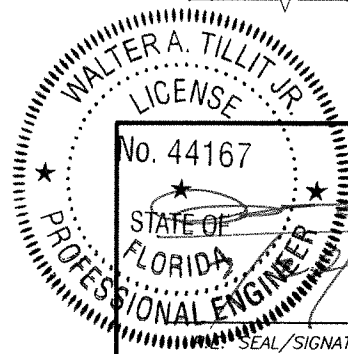


SECTION C-C
(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"

† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS SCREW,
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SECTION C-C
(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"



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W.H.
DRAWN BY:

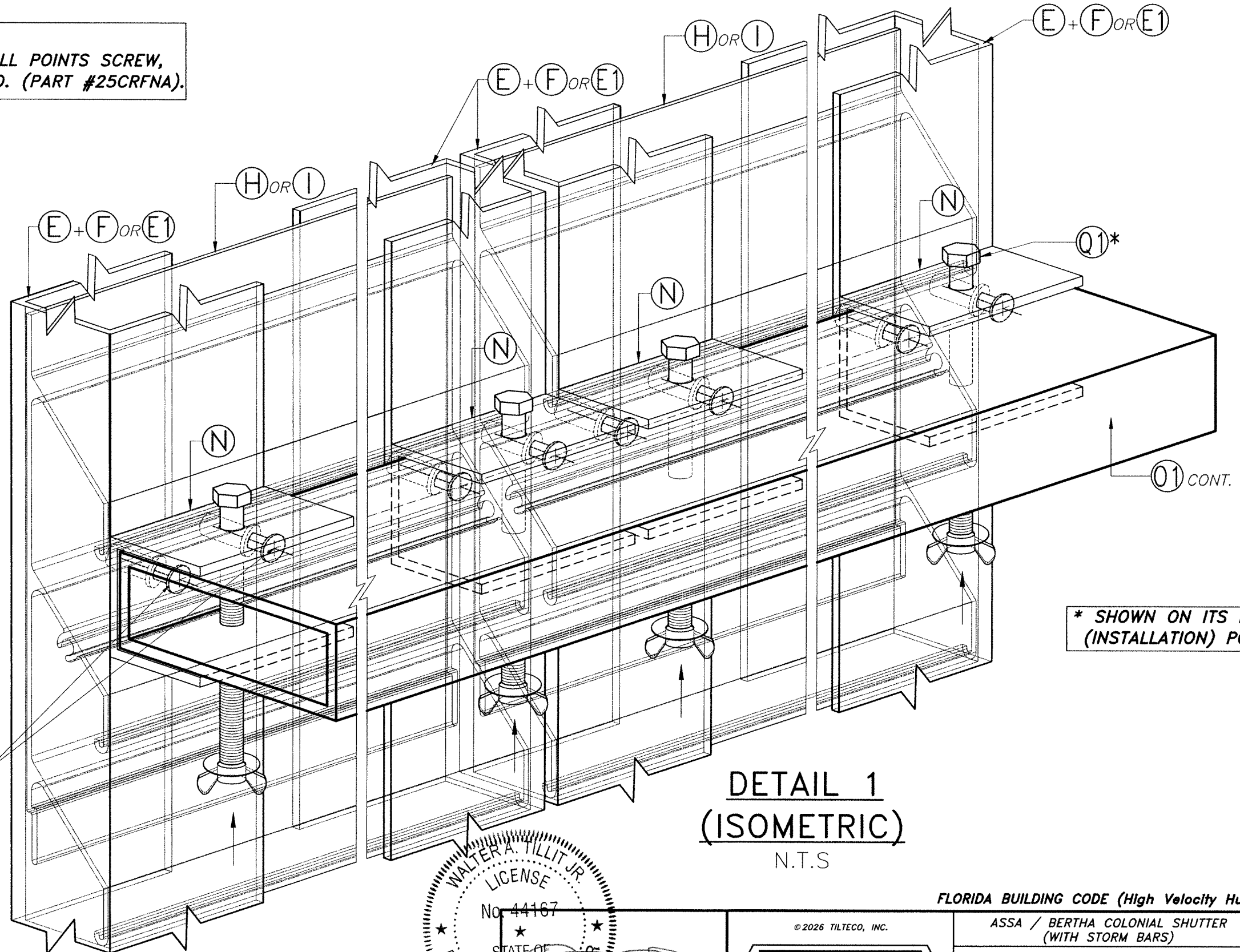
6/30/2026
DATE:

26-101
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 7 OF 14

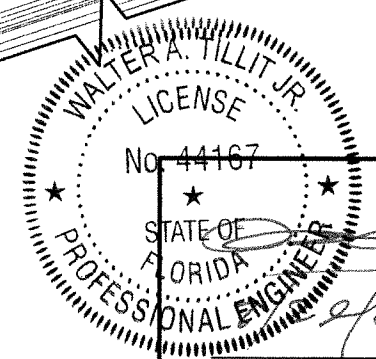
† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS SCREW,
BOLT & SPECIALTY CO. (PART #25CRFNA).



(2) 1/4"Ø-20x3/4"
SS PHILLIPS FLAT
HEAD BOLTS INTO
ALUMINUM
RIVET NUTS †
(N TO E OR E1)
(TYP.)

* SHOWN ON ITS DRIVING
(INSTALLATION) POSITION

DETAIL 1
(ISOMETRIC)
N.T.S



P.E. SEAL/SIGNATURE/DATE

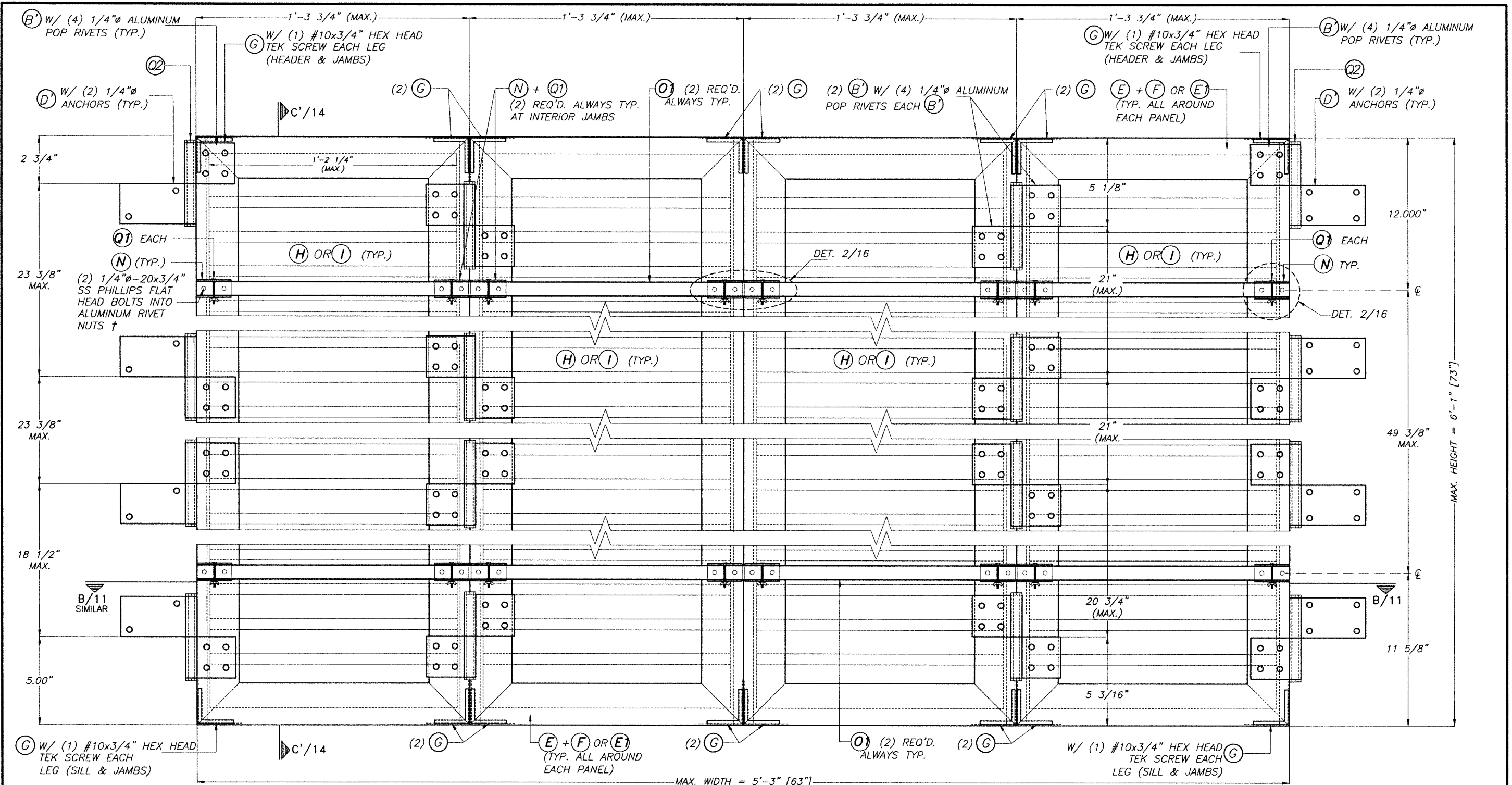
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FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				6/30/2026 DATE:	
				26-101 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-132	6/30/26	3	-	-
2	-	-	4	-	-

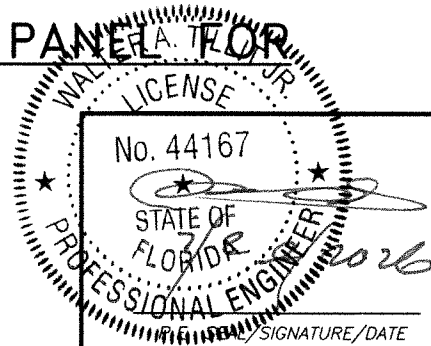


TYPICAL EXTERIOR ELEV. QUADRUPLE PANEL FOR (HURRICANE POSITION)

SCALE: 3/16"=1"

† 1/4"-20x3/4"
AS DISTRIBUTED BY ALL POINTS
SCREW, BOLT & SPECIALTY CO.
(PART # 25CRFNA).

MAXIMUM A.S.D. DESIGN PRESSURE RATING = +51.0, -70.0 p.s.f. FOR
INSTALLATION INTO CONCRETE OR CONCRETE BLOCK WALL SUBSTRATE.



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

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(WITH STORM BARS)

AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (800)432-2204
FAX: (561)209-8380

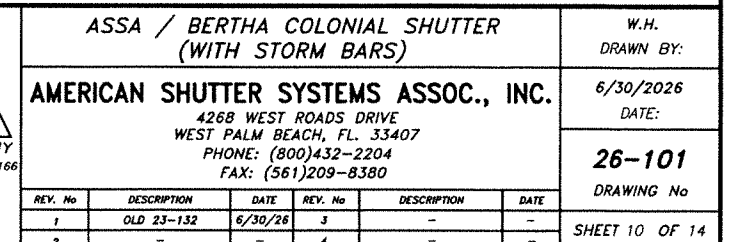
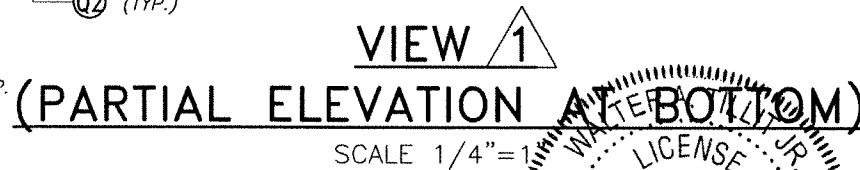
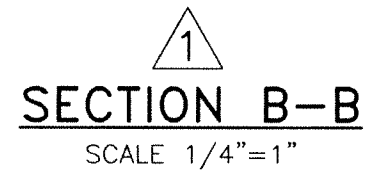
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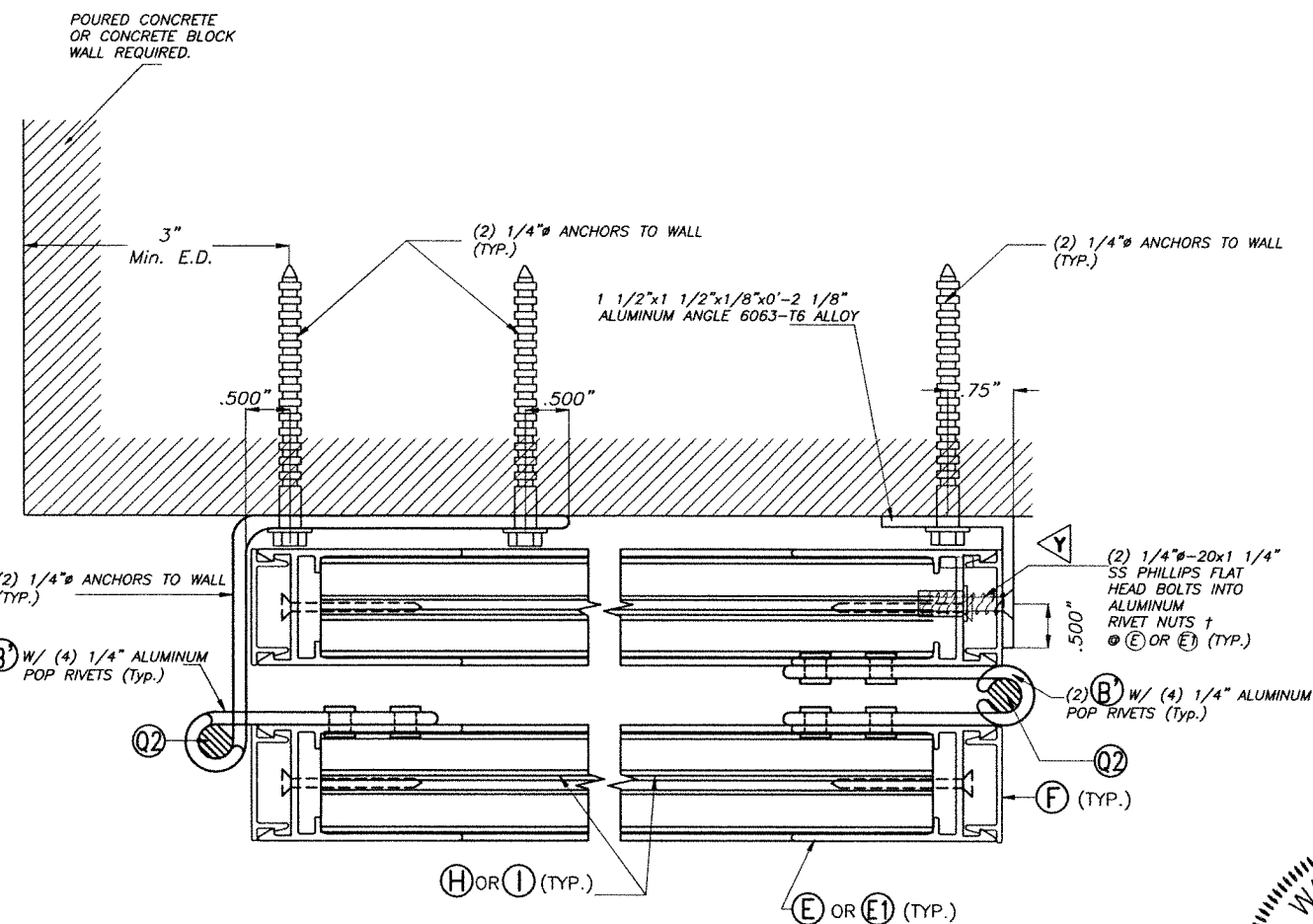
W.H.
DRAWN BY:

6/30/2026
DATE:

26-101
DRAWING No

SHEET 9 OF 14

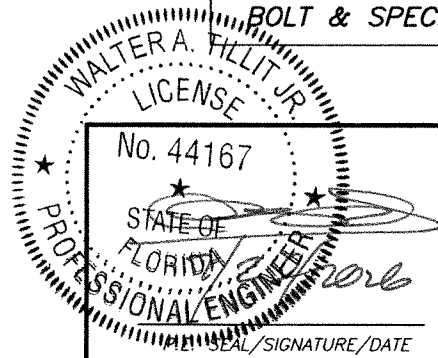




SCALE 1/8"=1"

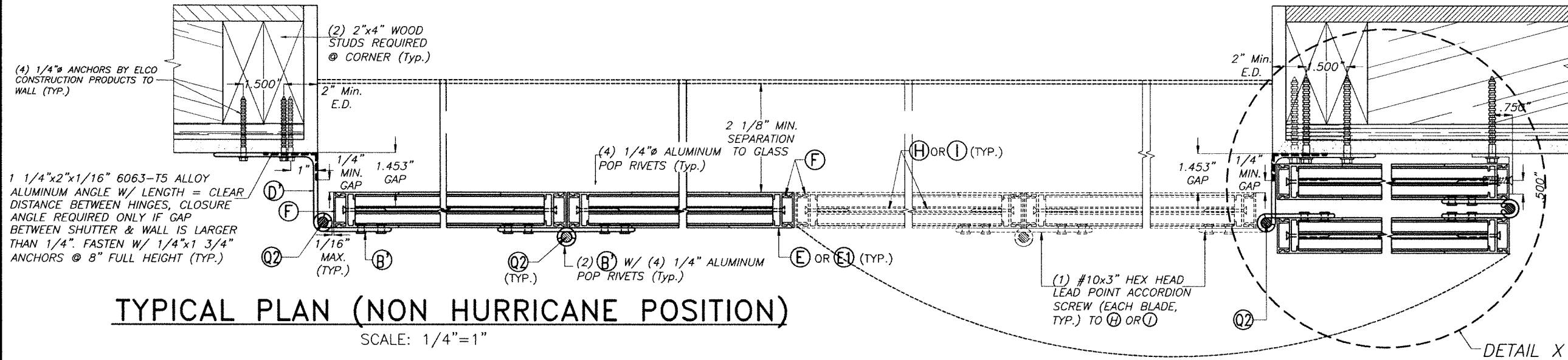


† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS SCREW,
BOLT & SPECIALTY CO. (PART # 25CRFNA).



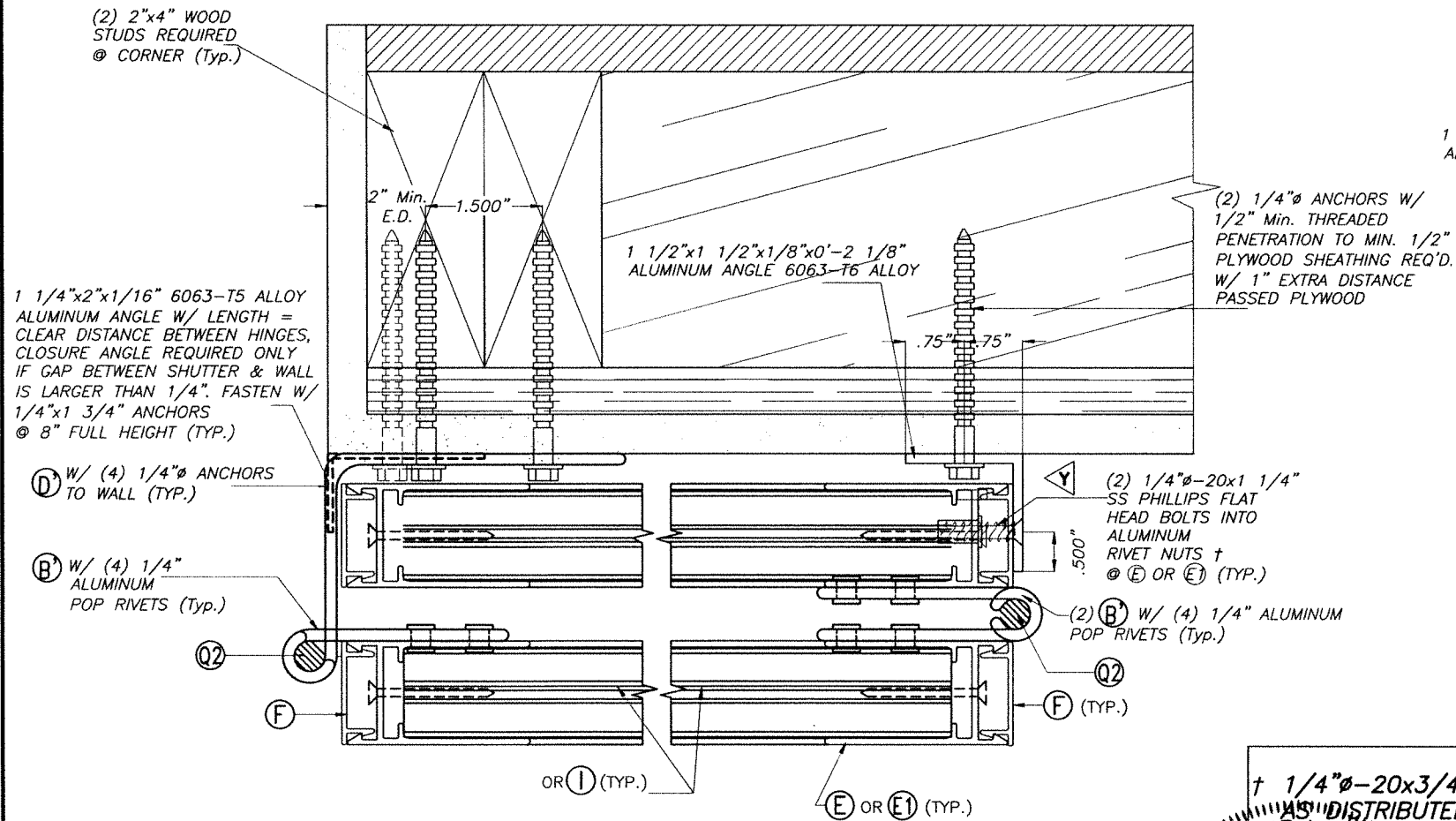
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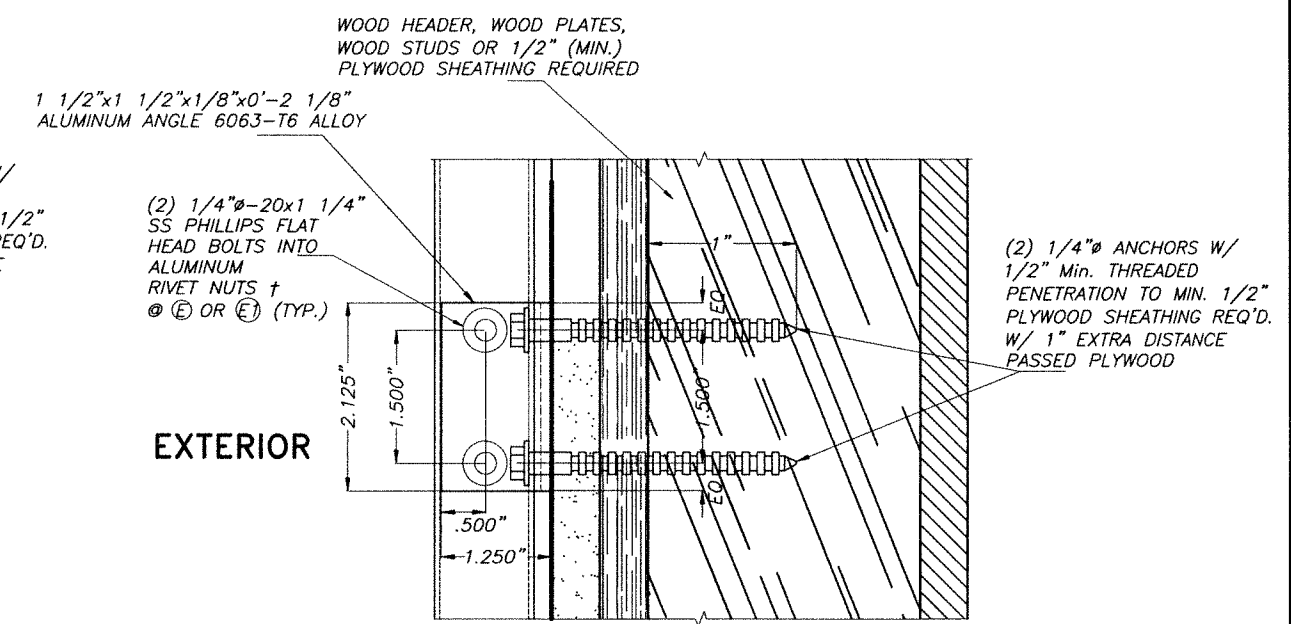
TYPICAL PLAN (NON HURRICANE POSITION)

SCALE: 1/4"=1"



DETAIL X (NON HURRICANE POSITION)

SCALE 1/8"=1"



ELEVATION Y-Y

SCALE 1/8"=1"

† 1/4"Ø-20x3/4" AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY CO. (PART # 25CRFNA).

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PROFESSIONAL ENGINEER
STATE OF FLORIDA

SIGNATURE/DATE

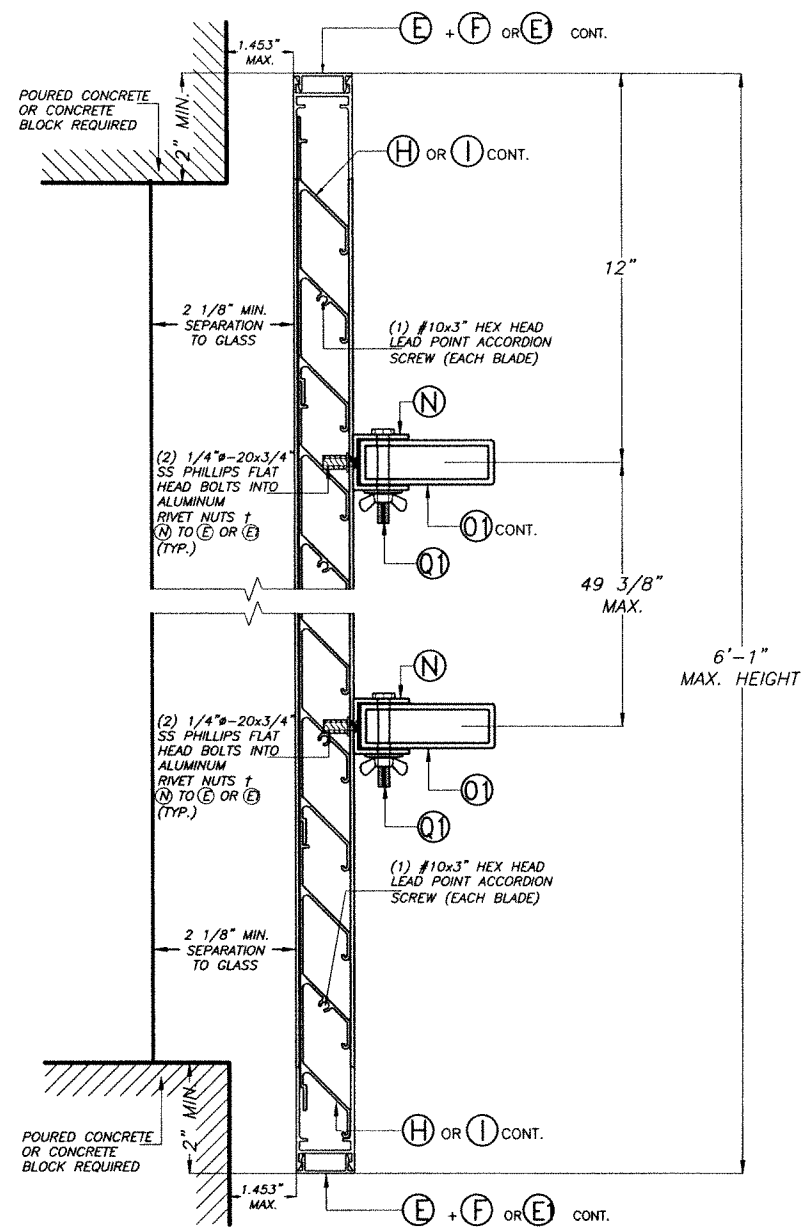
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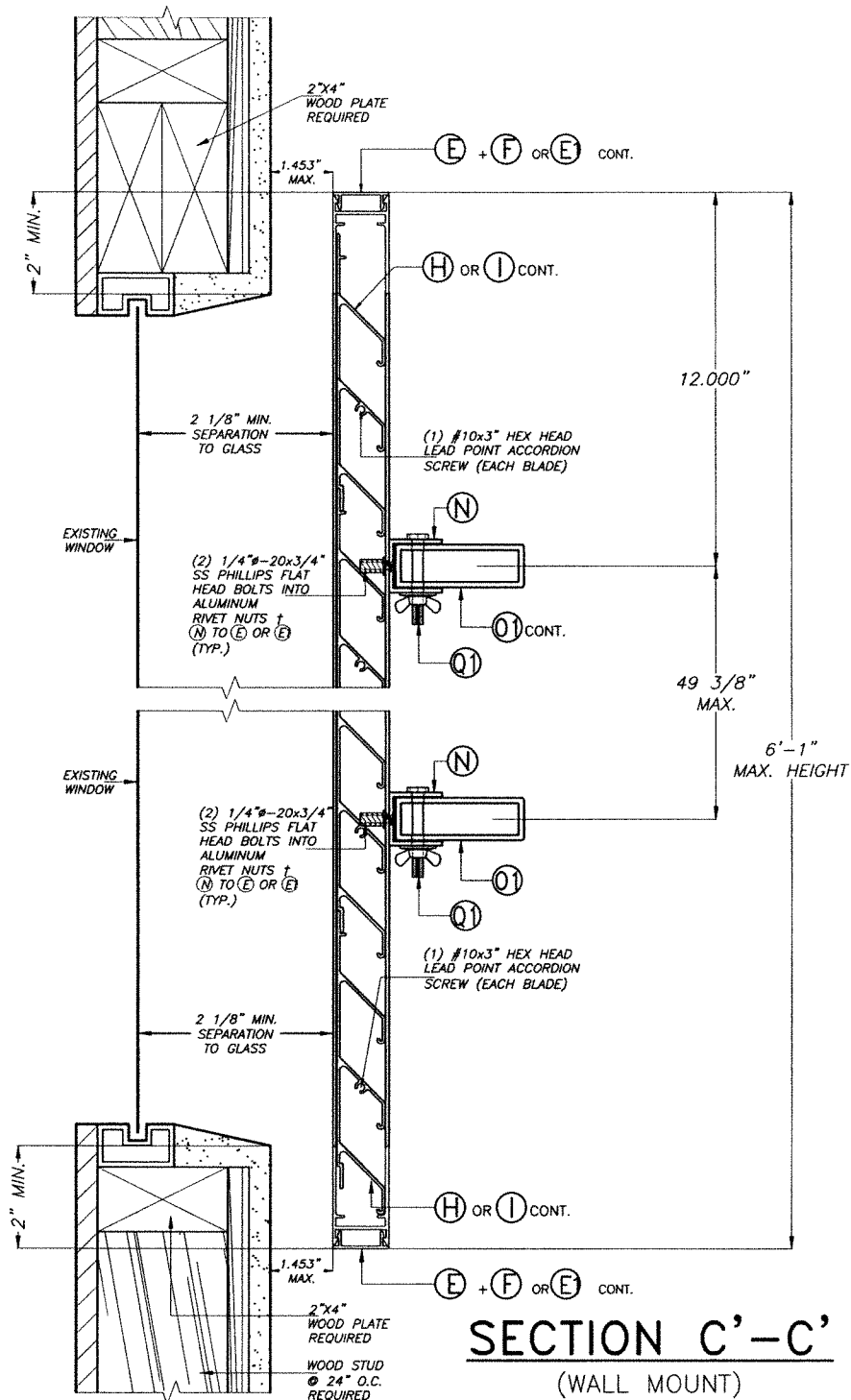
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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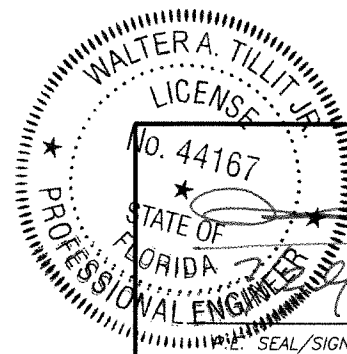


SECTION C'-C'
(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"

† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS SCREW,
BOLT & SPECIALTY CO. (PART #25CRFNA).



SECTION C'-C'
(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"



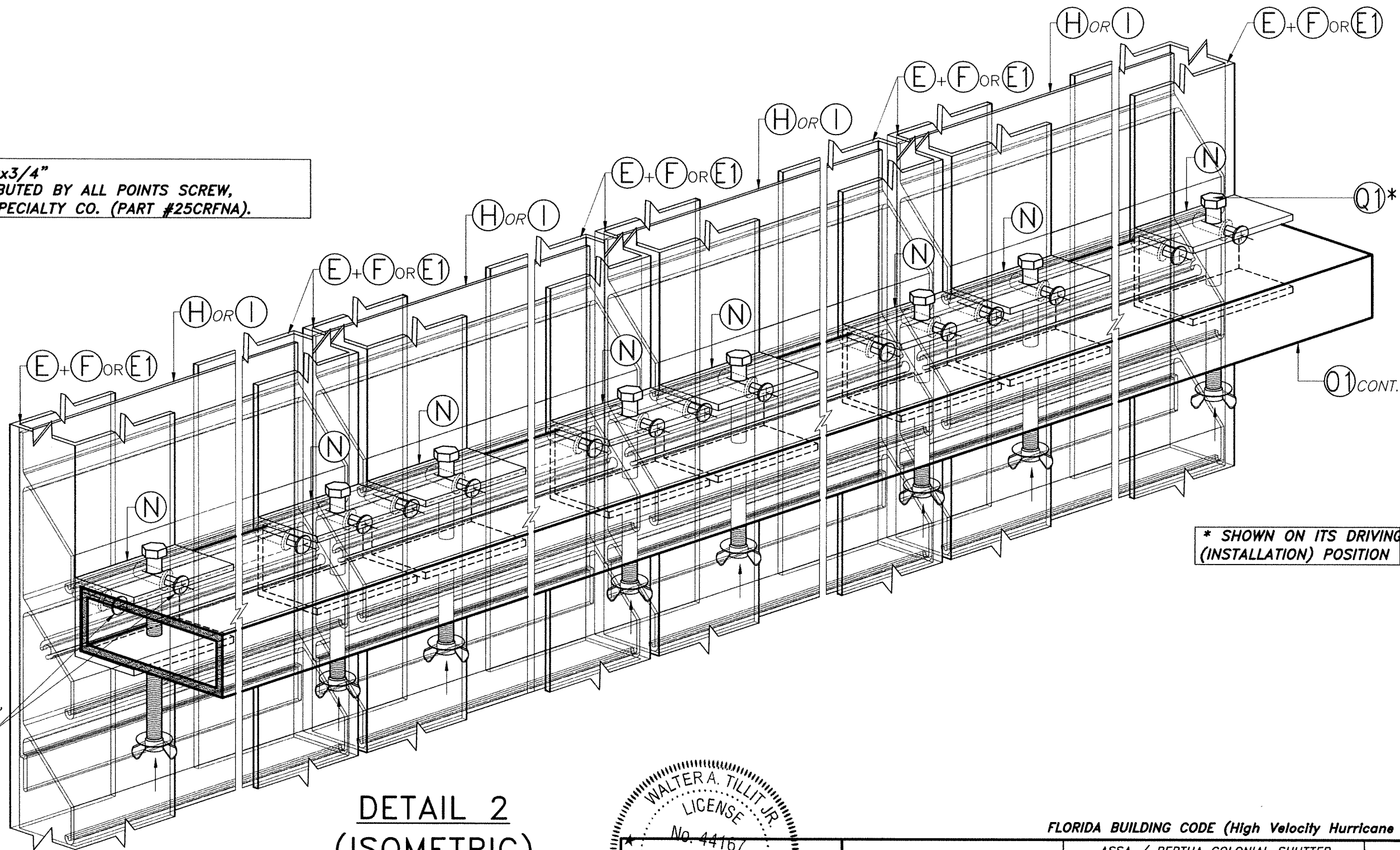
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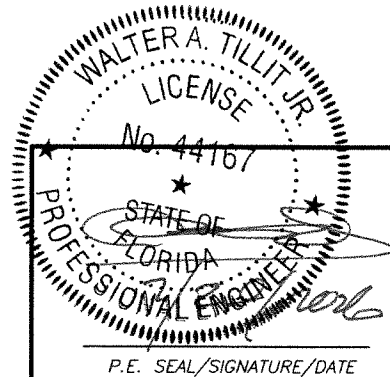
† 1/4"Ø-20x3/4"
AS DISTRIBUTED BY ALL POINTS SCREW,
BOLT & SPECIALTY CO. (PART #25CRFNA).



* SHOWN ON ITS DRIVING
(INSTALLATION) POSITION

(2) 1/4"Ø-20x3/4"
SS PHILLIPS FLAT
HEAD BOLTS INTO
ALUMINUM
RIVET NUTS †
(N TO E OR E1)
(TYP.)

DETAIL 2
(ISOMETRIC)
N.T.S



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