

GENERAL NOTES:

1. BERTHA H.V. BAHAMA 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 BAHAMA SHUTTER SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.(MIAMI DADE/ BROWARD COUNTIES).
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION **1609** 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.
- 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.
- BERTHA H.V. BAHAMA SHUTTER'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS # 0510.01-06 , 0621.01-07 AND 1222.01-20 AS PER ASTM E 1886, ASTM E 1996 AND ASTM E-330 STANDARDS, QUALIFIED FOR WIND ZONE 3, MISSILE TYPE D & SMALL MISSILE, BASIC PROTECTION ONLY.
2. SEE MAXIMUM A.S.D. DESIGN PRESSURE RATINGS & MAXIMUM SHUTTER DIMENSIONS ON SCHEDULE ON SCHEDULE ON SHEET 7.
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 AND 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 UNITS: SOUTHERN PINE No.2, $G=0.55$.
- 1/4"Ø 410 SS TAPCON ANCHORS OR 1/4"Ø ULTRACON+ OR ULTRACON SS4 AS MANUFACTURED BY I.T.W. BUILDDEX, INC AND DEWALT RESPECTIVELY.
 - 1/4"Ø x 1 7/16" PANELMATE INSERTS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

- A.1) MINIMUM THREADED PENETRATION OF 1/4"Ø ANCHORS INTO WOOD SHALL BE 1 1/2".
- A.2) MINIMUM THREADED PENETRATION OF PANELMATE INSERT INTO WOOD SHALL BE 1 5/8".
- A.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 A.1 AND A.2).
- (B) TO EXISTING POURED CONCRETE (MIN. $f'_c=3192$ psi) OR CONCRETE ASTM C-90 BLOCK UNITS:
- 1/4"Ø 410 SS TAPCON ANCHORS OR 1/4"Ø ULTRACON+ OR ULTRACON SS4 AS MANUFACTURED BY I.T.W. BUILDDEX, INC AND DEWALT RESPECTIVELY.
 - 1/4"Ø ELCO FEMALE PANEL MATE AS MANUFACTURED BY ELCO CONSTRUCTIONS PRODUCTS.
 - 1/4"Øx1 7/16" PANELMATE INSERTS AS MANUFACTURED BY ELCO FASTENING SYSTEMS, LLC.
- B.1) MINIMUM EMBEDMENT OF 1/4"Ø ANCHORS INTO POURED CONCRETE SHALL BE 1 3/4" OR CONCRETE HOLLOW BLOCK SHALL BE 1 1/4".
- B.2) MINIMUM EMBEDMENT OF 1/4"Ø ELCO FEMALE PANEL MATE ANCHORS INTO POURED CONCRETE SHALL BE 1 1/4" OR INTO CONCRETE HOLLOW BLOCK SHALL BE 1 1/4".
- NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

B.3) MINIMUM EMBEDMENT OF PANELMATE INSERTS INTO CONCRETE OR CONCRETE BLOCK SHALL BE 1 5/8" FOR CONCRETE AND 1 1/4" FOR BLOCK, RESPECTIVELY. 1/4"Ø-20 S.S. TRUSS HEAD MACHINE SCREW USED SHALL BE 1 1/4" LONG SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

B.4) 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, B.2 AND B.3).

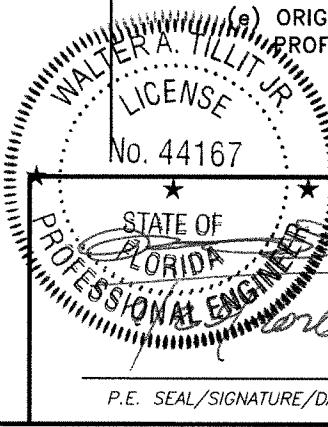
(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

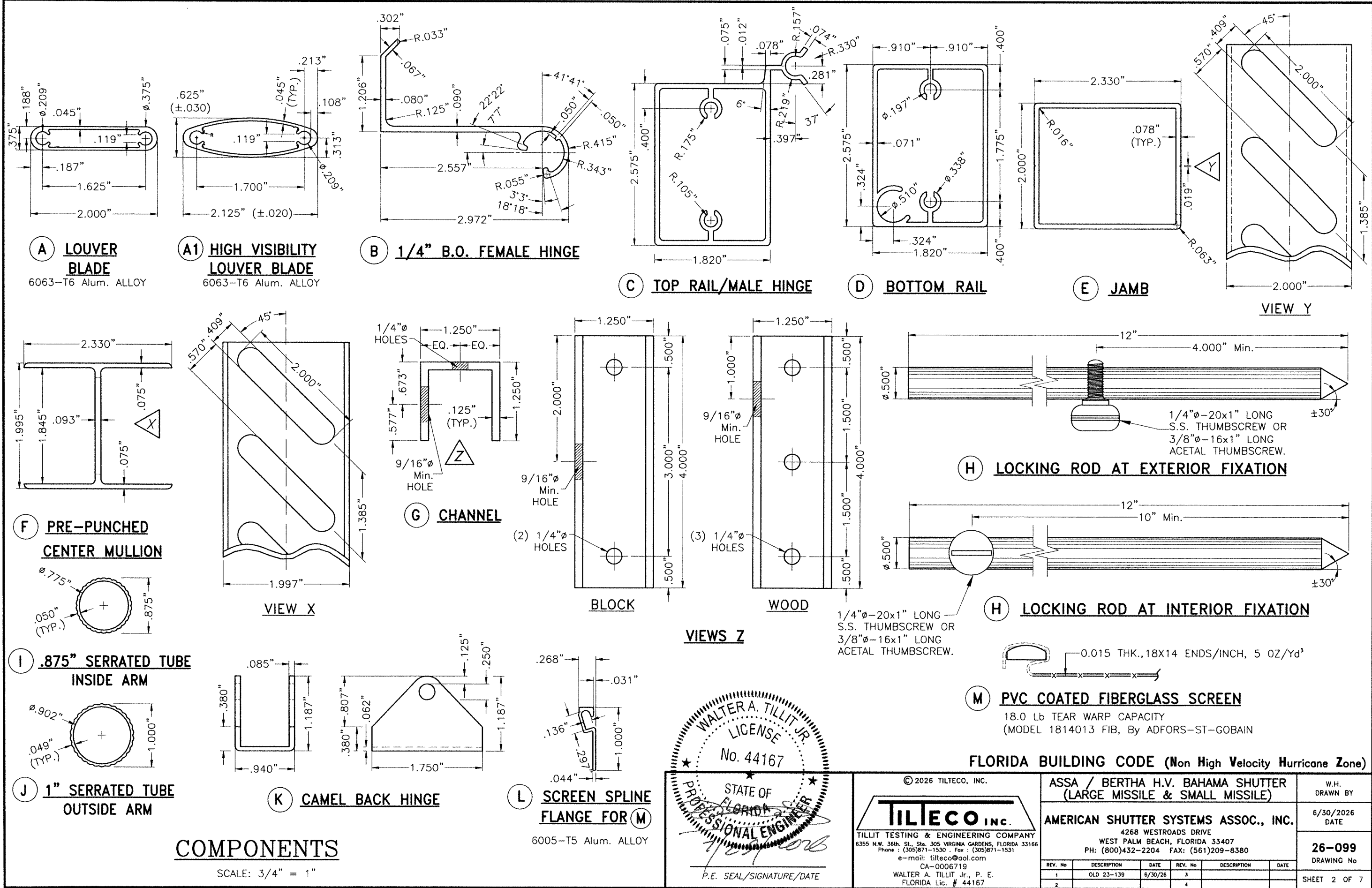
- * ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.
8. EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH SILL BRACKETS DURING PERIODS OF HURRICANE WARNINGS.
9. IT SHALL BE THE RESPONSIBILITY 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. BERTHA H.V. BAHAMA 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.
11. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE EXPOSED SURFACE OF THE BAHAMA FRAME (C), (D) OR (E) 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.
12. (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 (Non High Velocity Hurricane Zone)

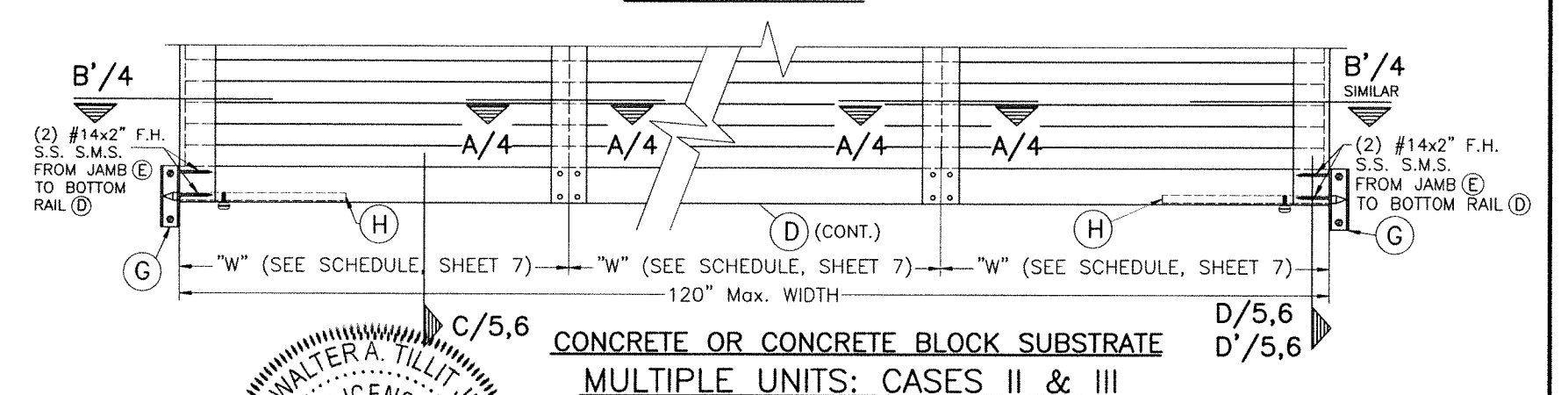
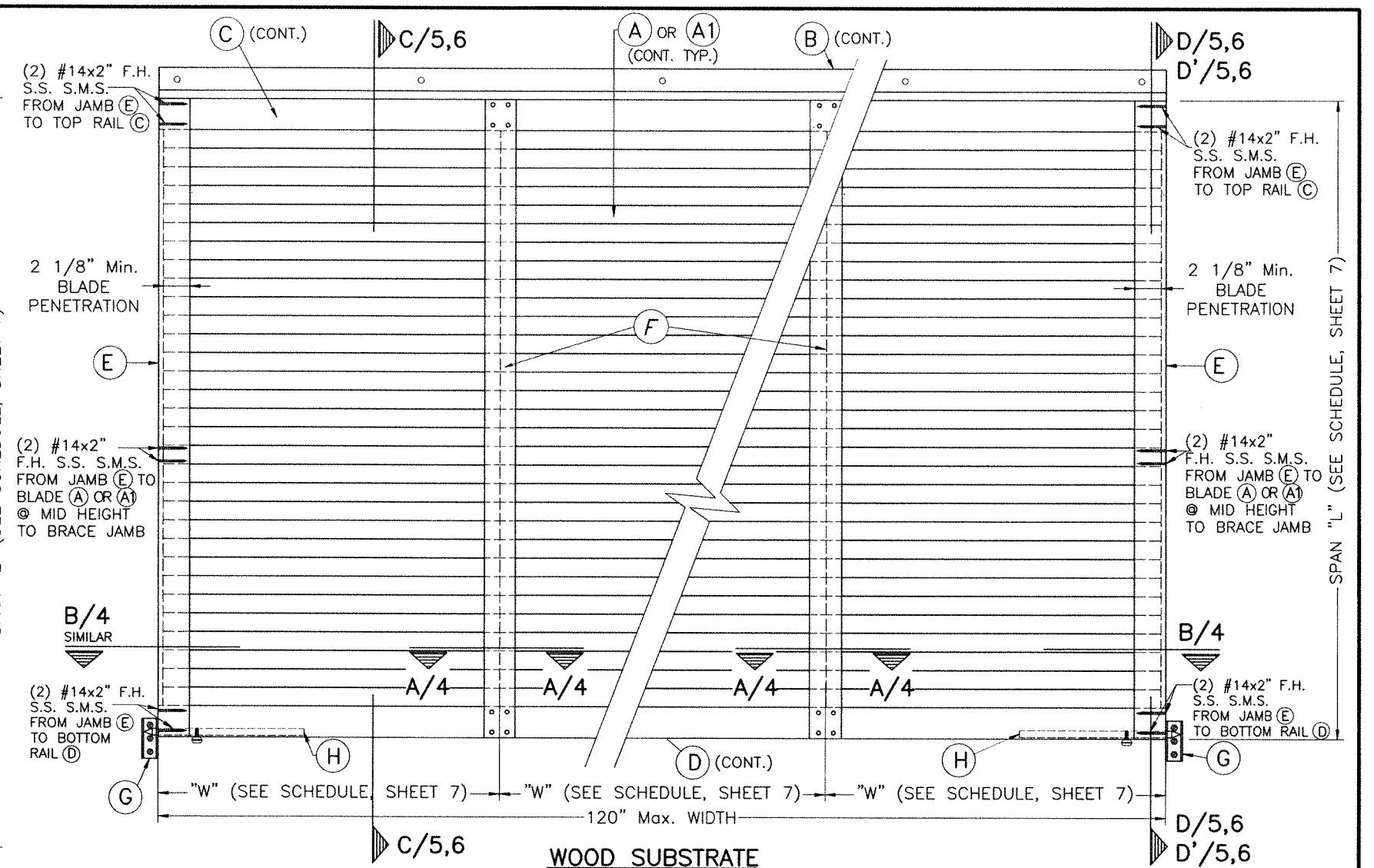
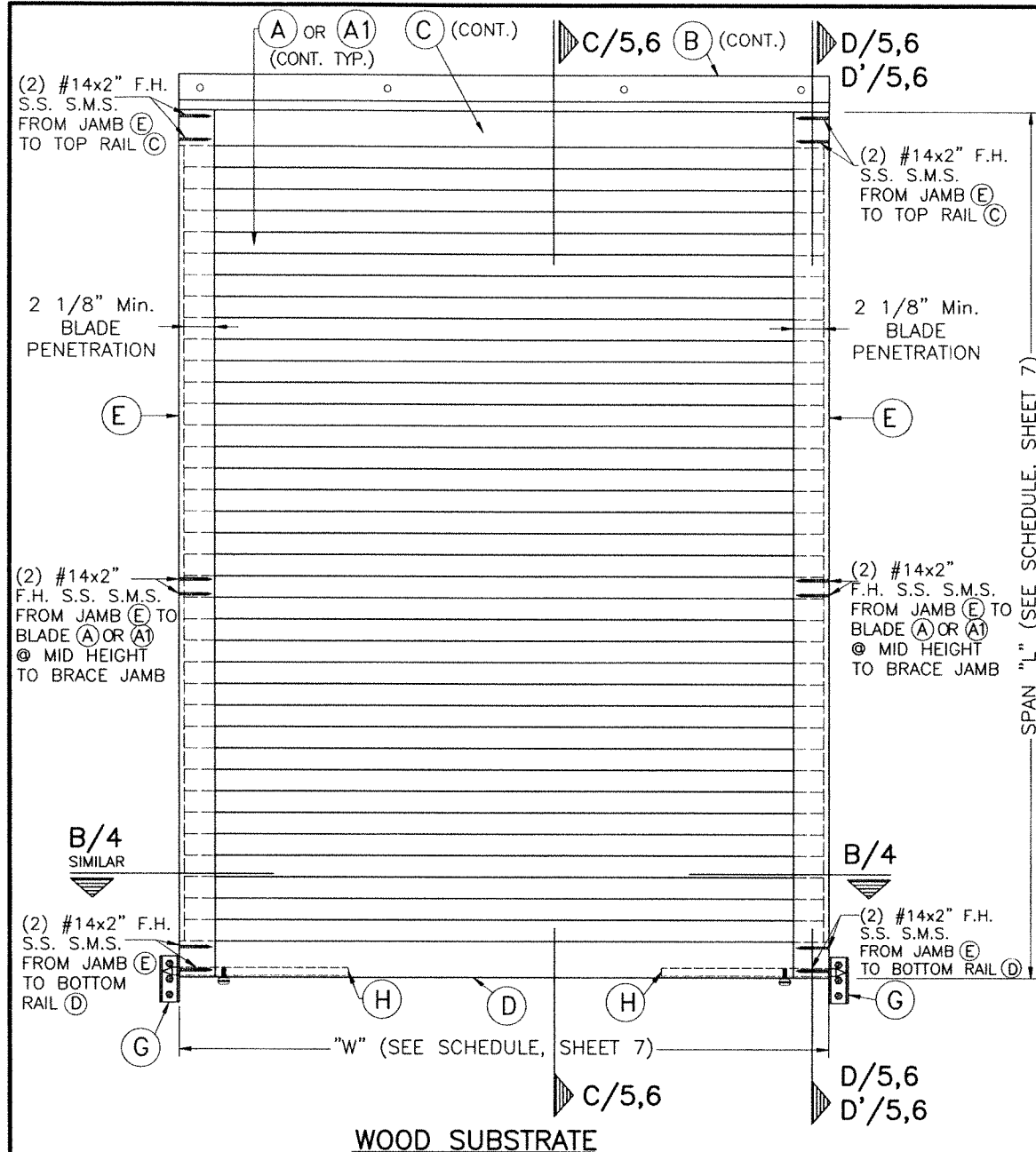
 P.E. SEAL/SIGNATURE/DATE	 © 2026 TILTECO, INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305 VIRGINIA GARDENS, FLORIDA 33166 Phone : (305)871-1530 - Fax : (305)871-1531 e-mail: tillitco@aol.com CA-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	ASSA / BERTHA H.V. BAHAMA SHUTTER (LARGE MISSILE & SMALL MISSILE)		W.H. DRAWN BY		
		AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WESTROADS DRIVE WEST PALM BEACH, FLORIDA 33407 PH: (800)432-2204 FAX: (561)209-8380		6/30/2026 DATE		
REV. No		DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1		OLD 23-139	6/30/26	3		
2				4		
26-099 DRAWING No						SHEET 1 OF 7



WALTER A. TILLIT JR.
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
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26-099 DRAWING No					SHEET 2 OF 7

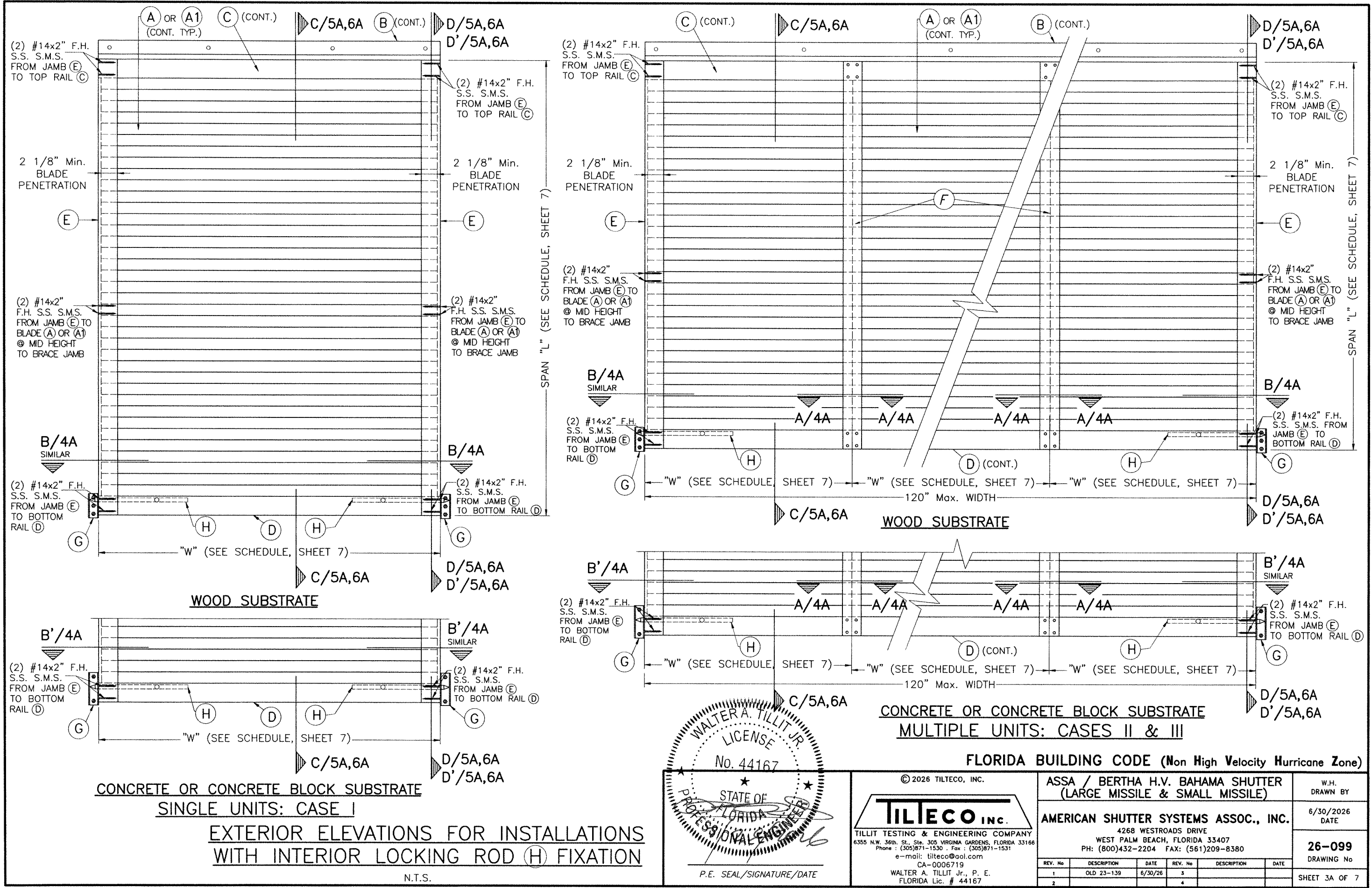


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EXTERIOR ELEVATIONS FOR INSTALLATIONS WITH EXTERIOR LOCKING ROD (H) FIXATION

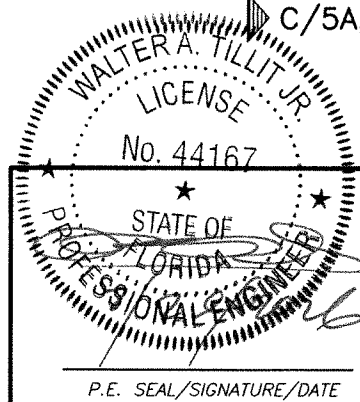
N.T.S.



CONCRETE OR CONCRETE BLOCK SUBSTRATE
SINGLE UNITS: CASE I

EXTERIOR ELEVATIONS FOR INSTALLATIONS
WITH INTERIOR LOCKING ROD (H) FIXATION

N.T.S.



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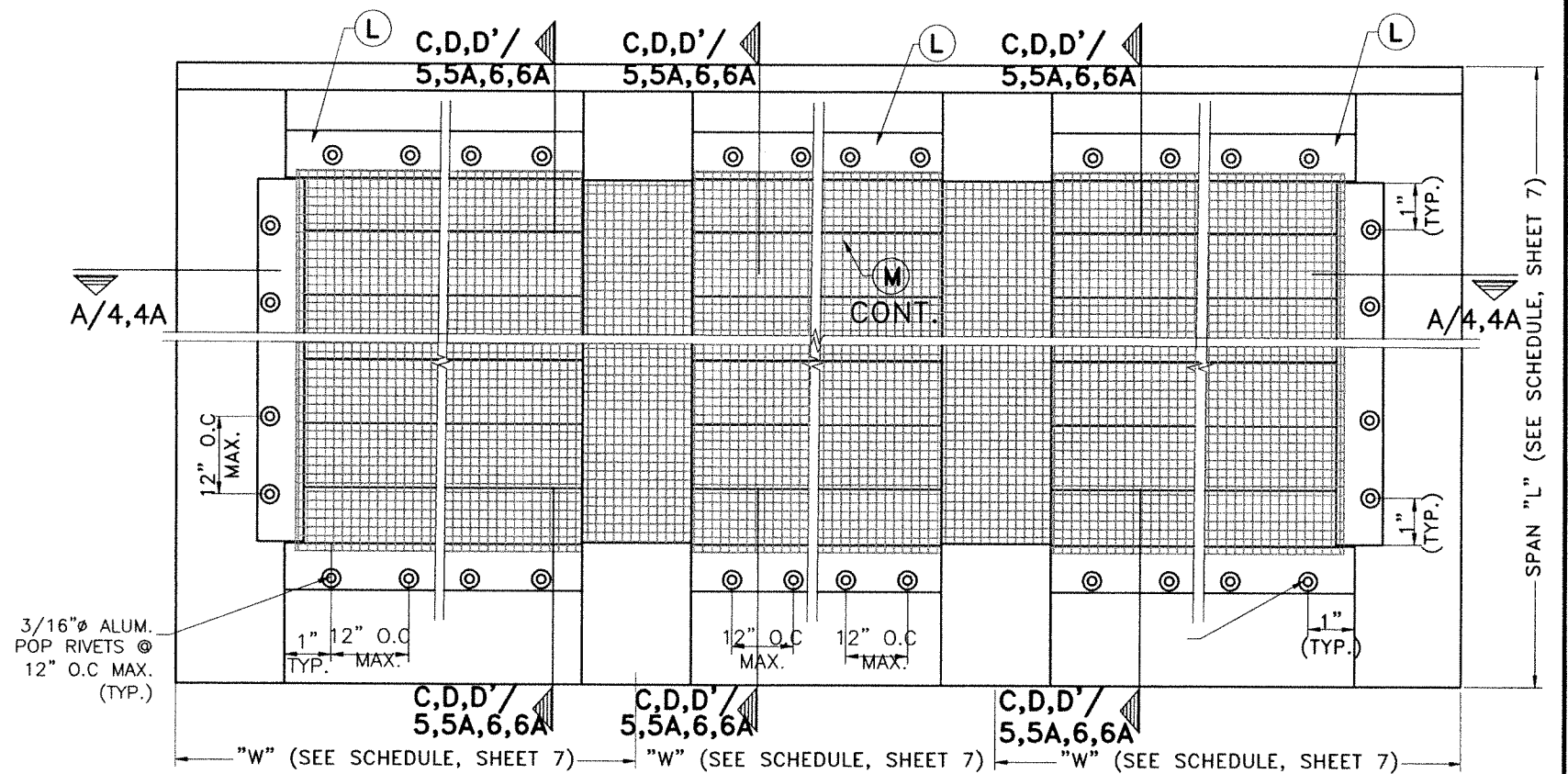
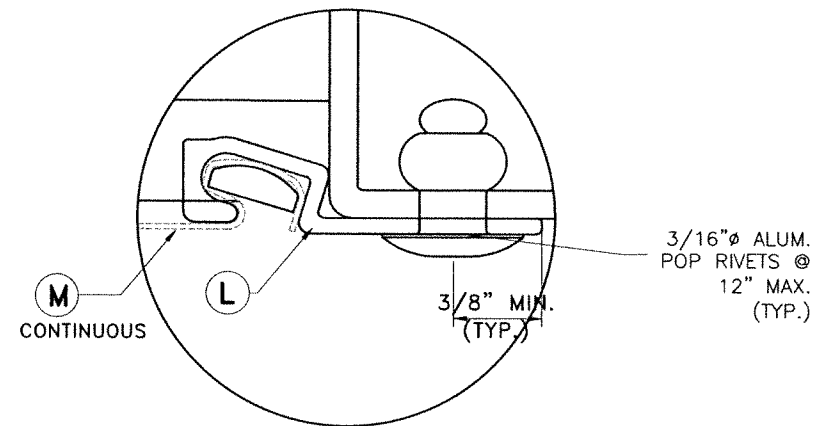
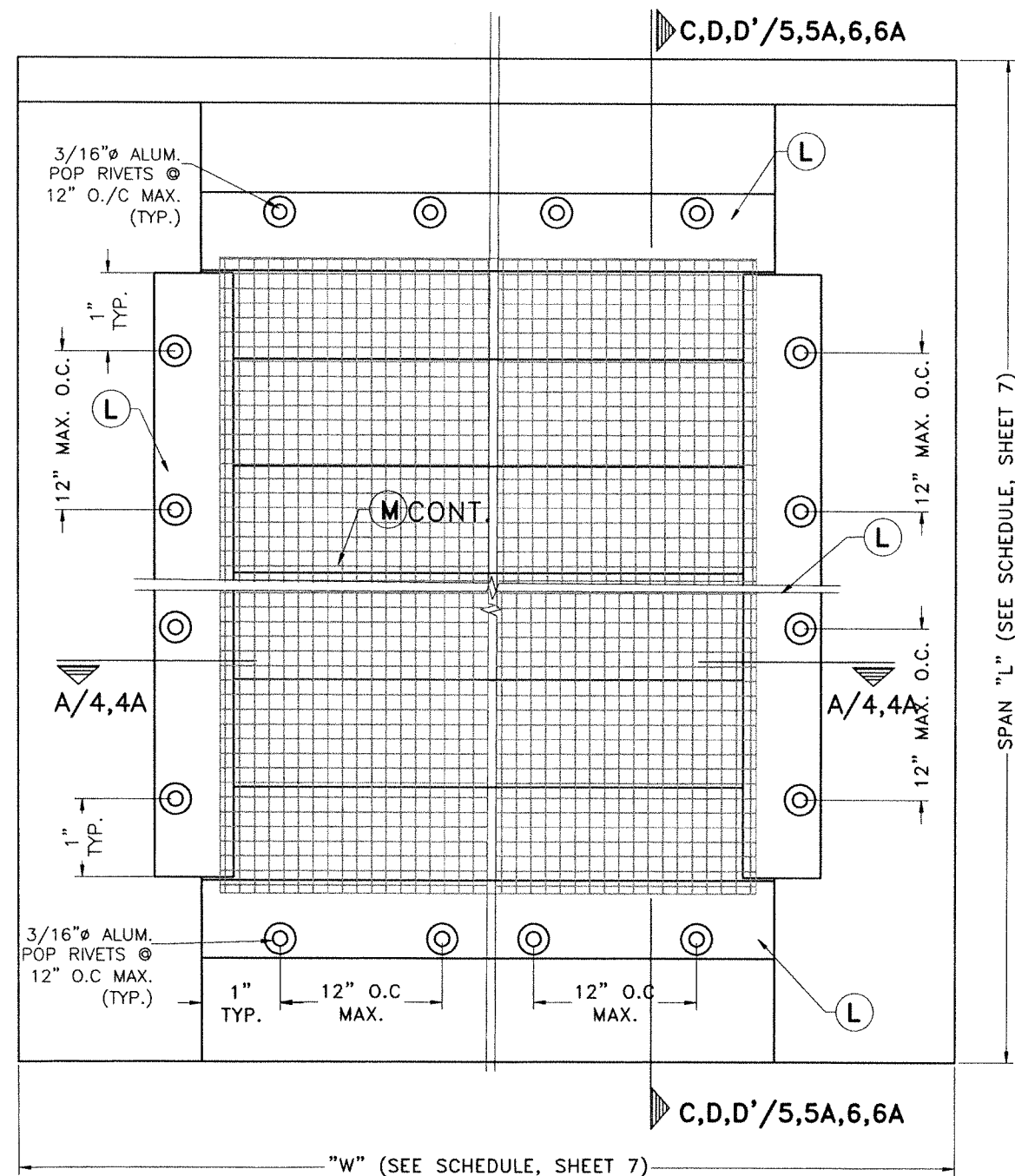
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W.H. DRAWN BY

6/30/2026 DATE

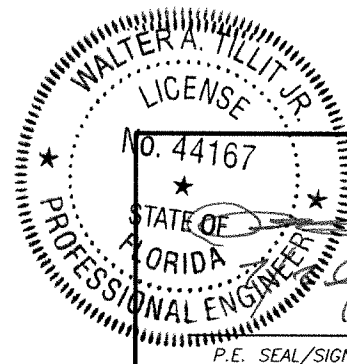
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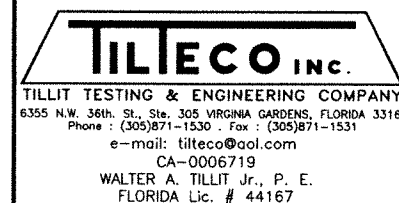


INTERIOR ELEVATION Δ FOR MULTIPLE UNITS
HV BAHAMA SCREEN ATTACHMENT

INTERIOR ELEVATION  FOR SINGLE UNITS
HV BAHAMA SCREEN ATTACHMENT
N.T.S.



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(LARGE MISSILE & SMALL MISSILE)

W.H.
DRAWN BY

6/30/2026
DATE

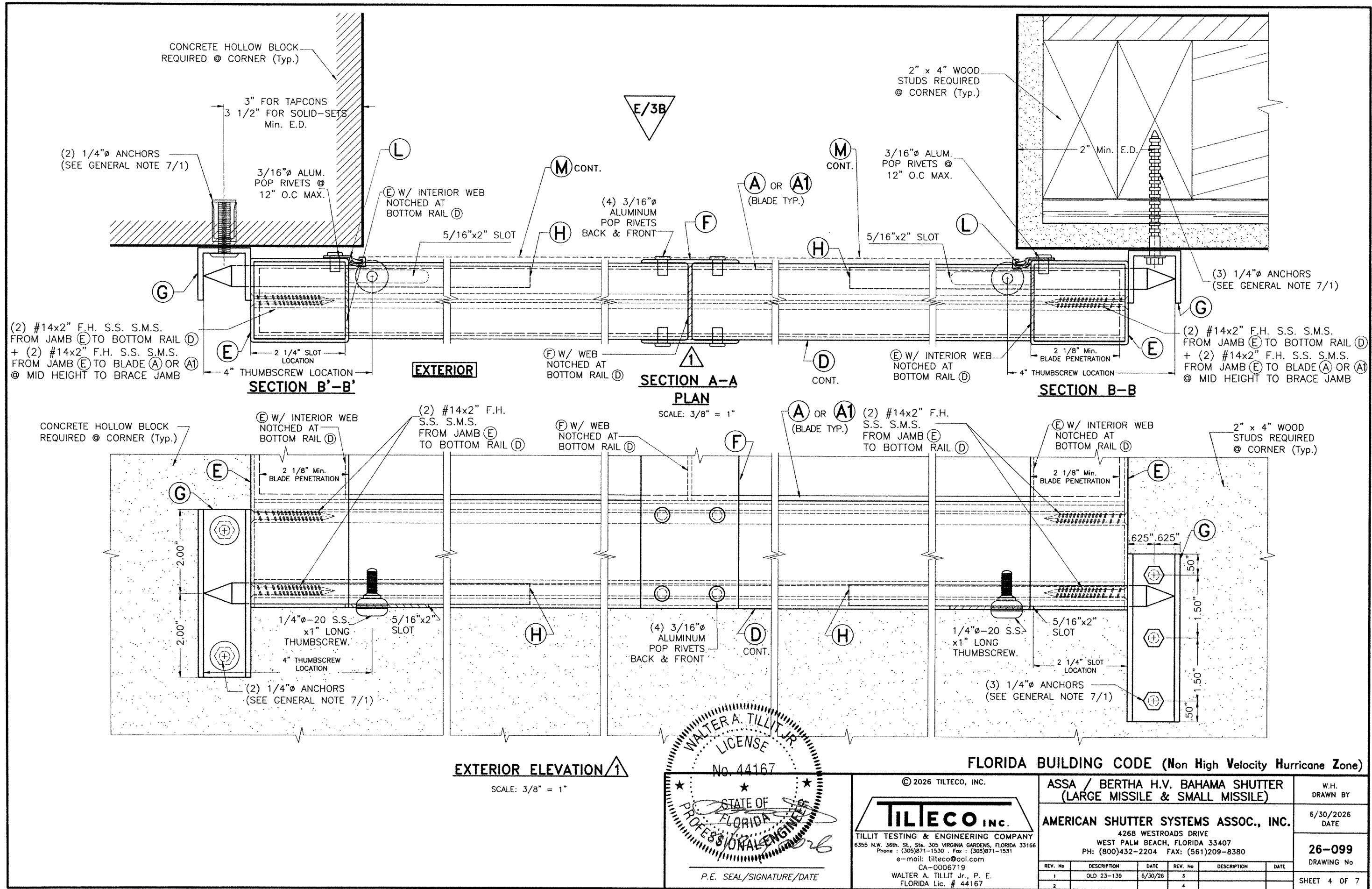
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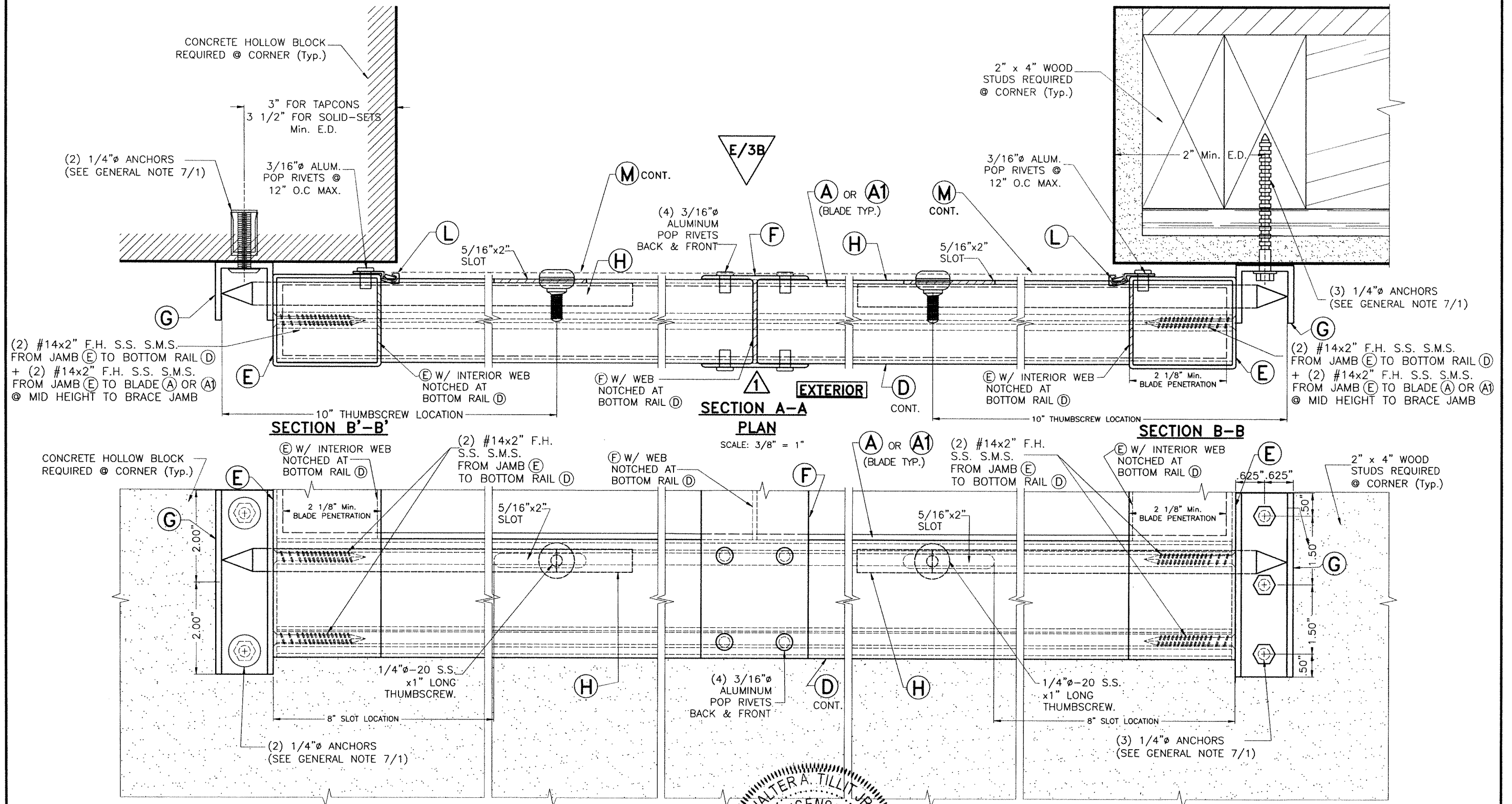
SHEET 3B OF 7

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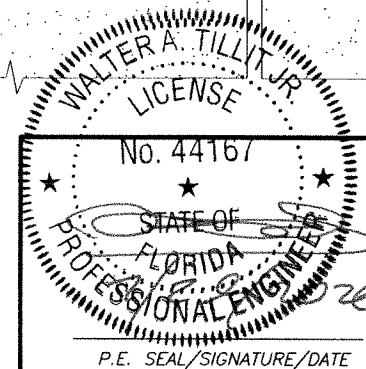




EXTERIOR ELEVATION 1

SCALE: 3/8" = 1"

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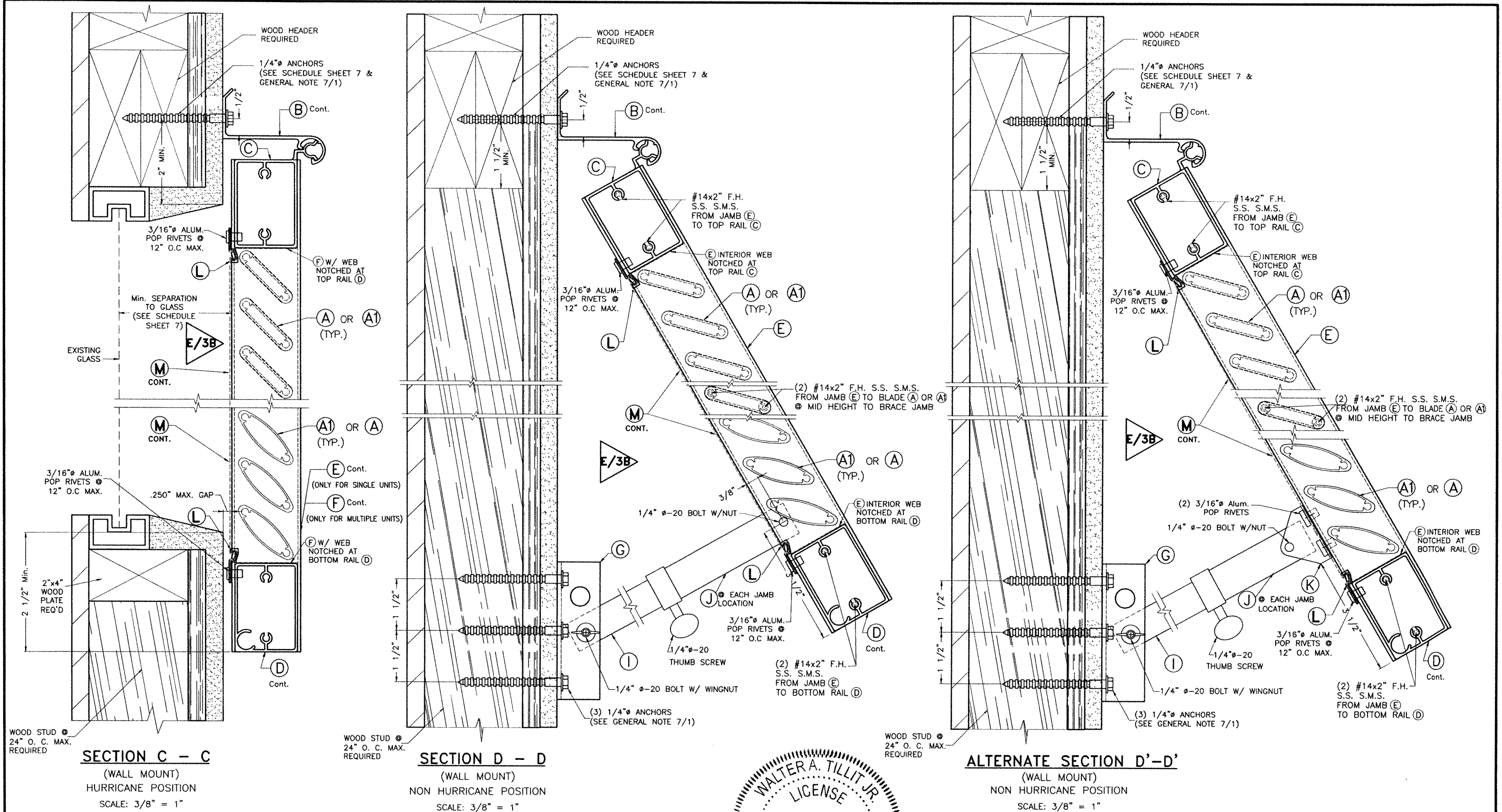
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2			4		

W.H.
DRAWN BY

6/30/2026
DATE

26-099
DRAWING No

SHEET 4A OF 7



**CONNECTION TO WOOD W/ EXTERIOR
LOCKING ROD (H) FIXATION**

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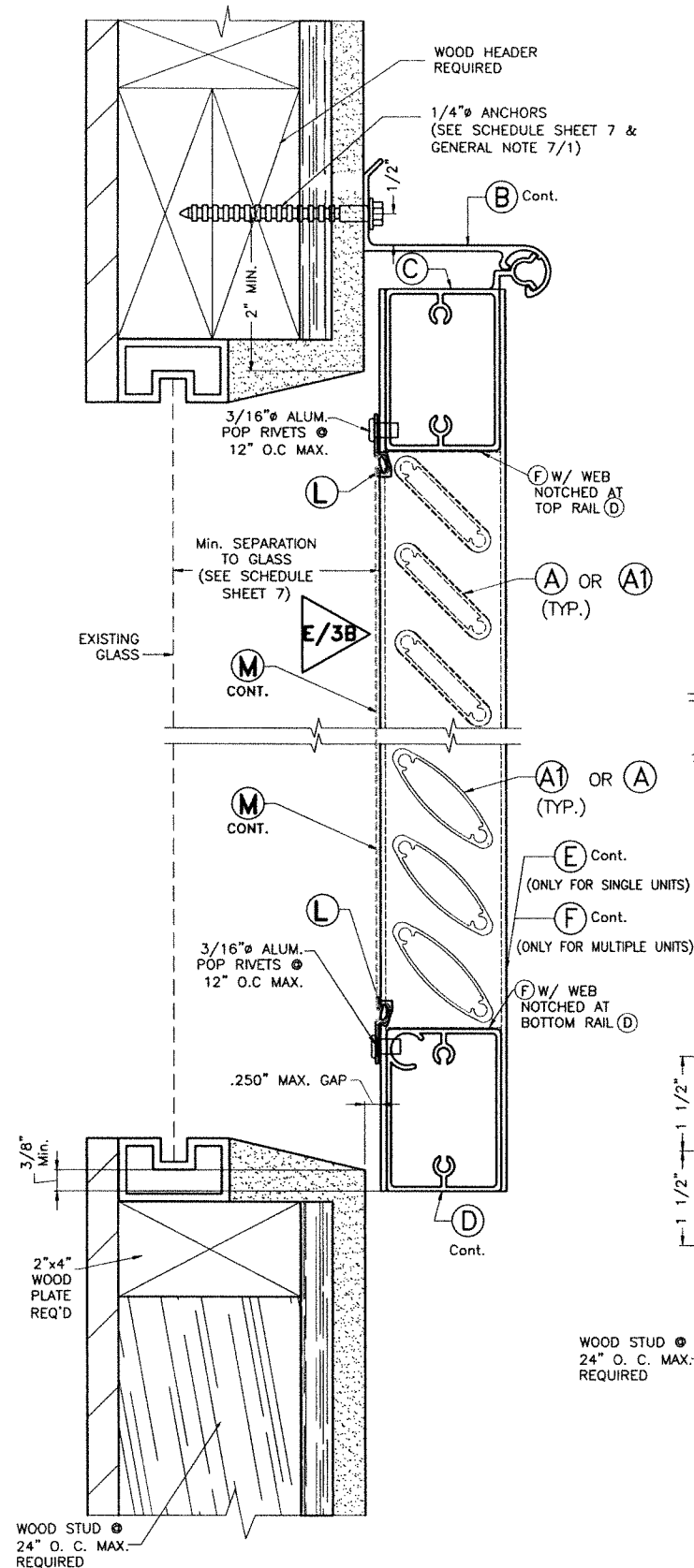
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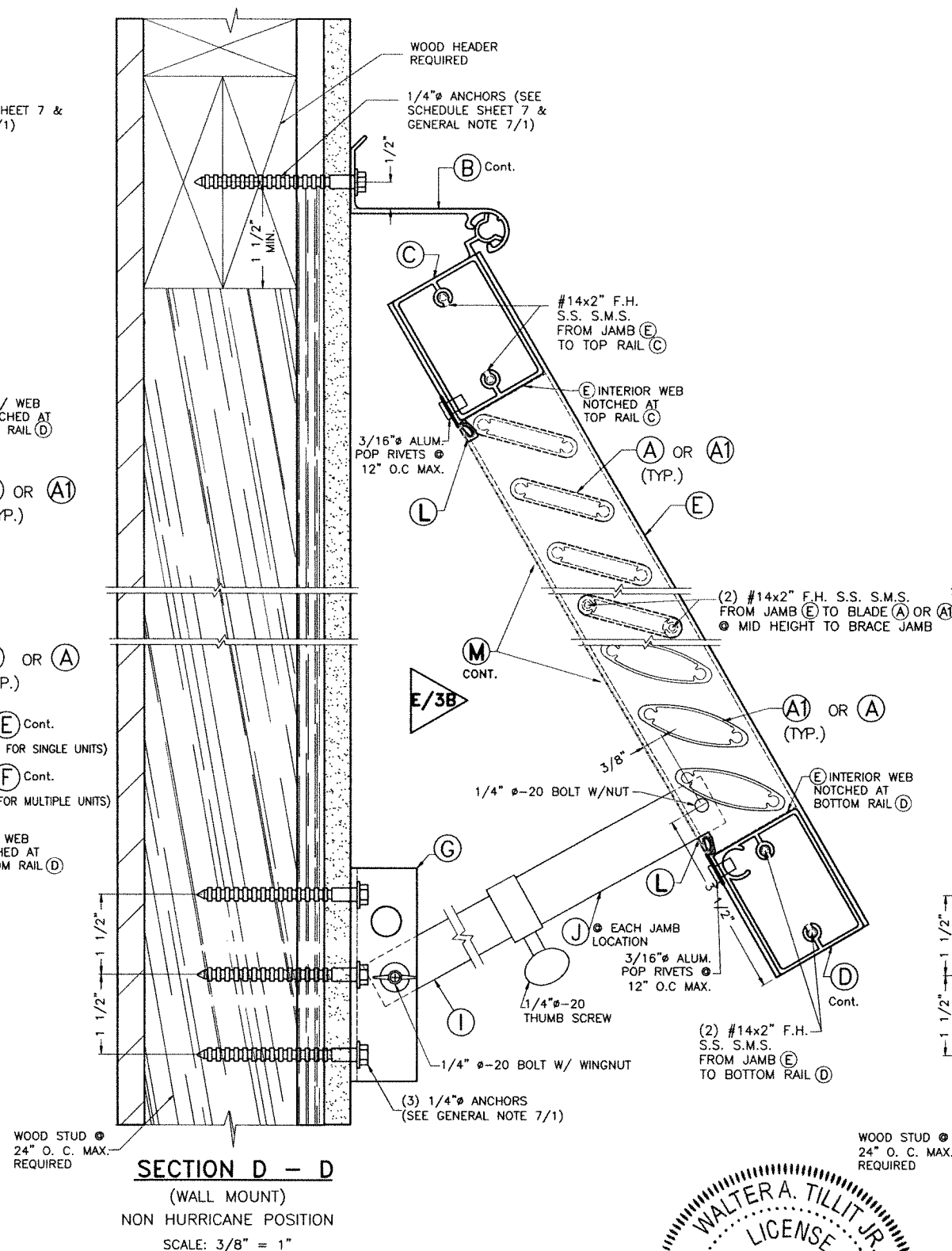
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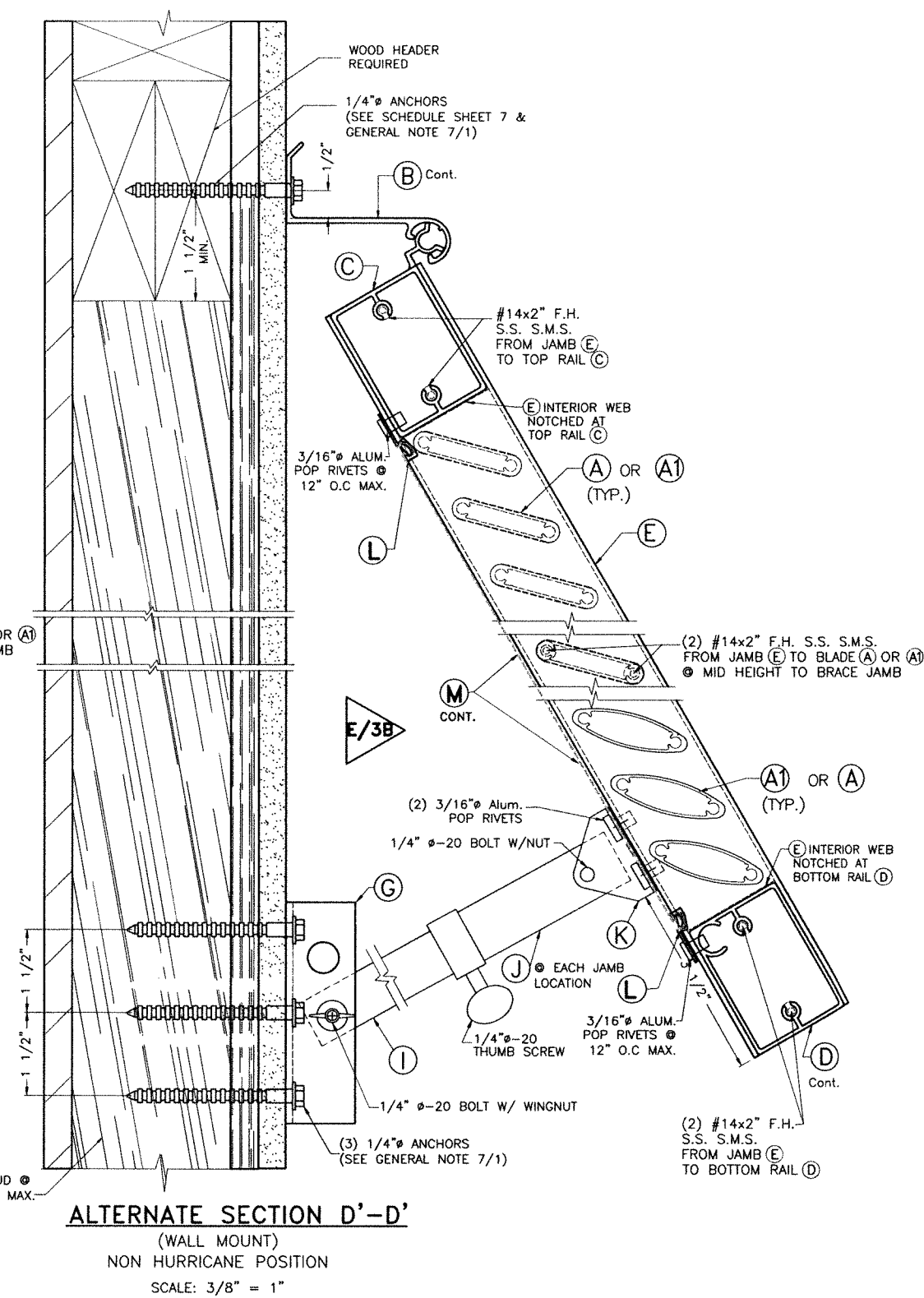
SHEET 5 OF 7



SECTION C - C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"



SECTION D - D
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"



ALTERNATE SECTION D'-D'
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"

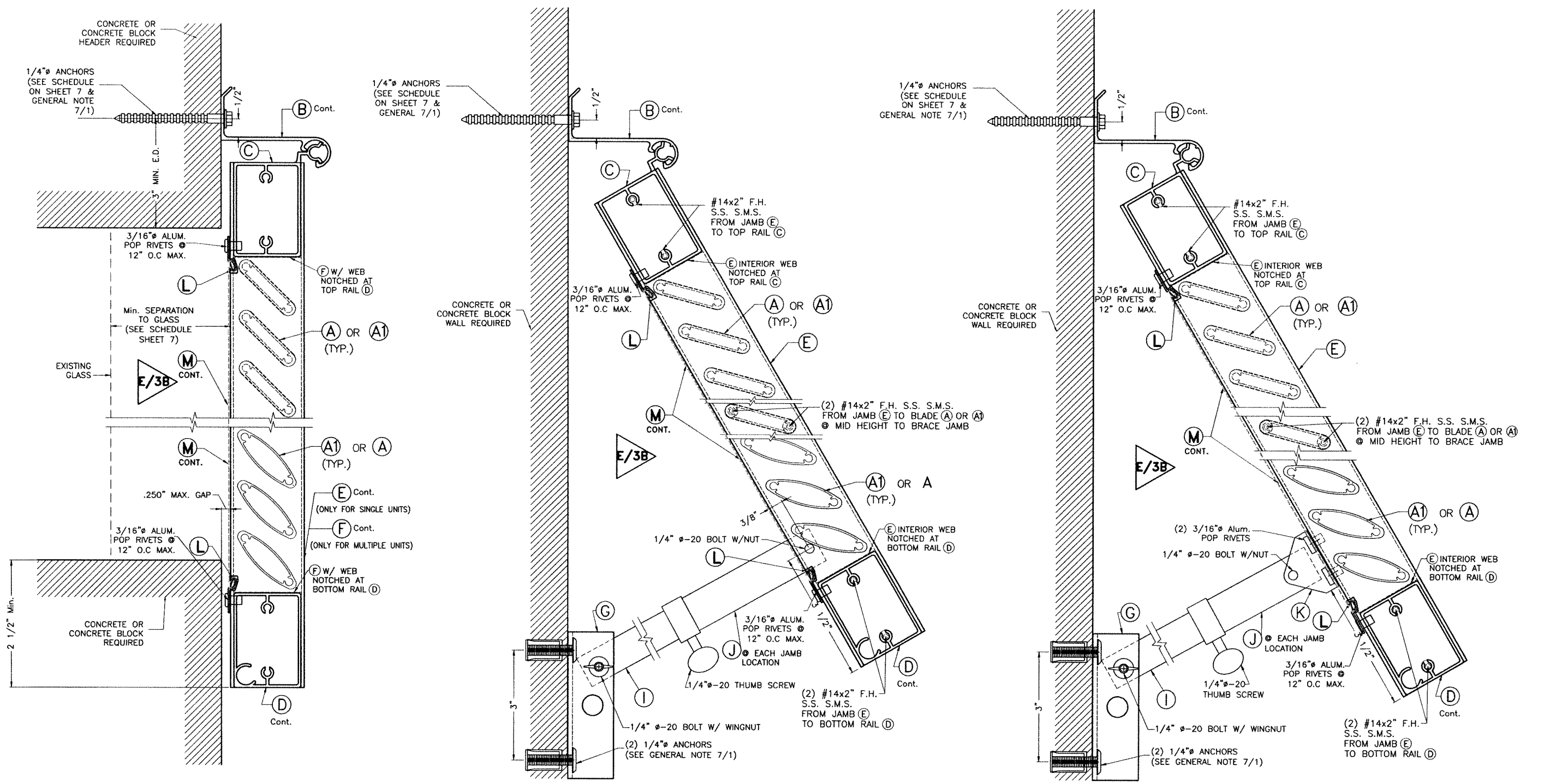
CONNECTION TO WOOD W/ ALTERNATE INTERIOR LOCKING ROD (H) FIXATION

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AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-139	6/30/26	3		
2			4		
			SHEET 5A OF 7		



SECTION C - C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"

SECTION D - D
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"

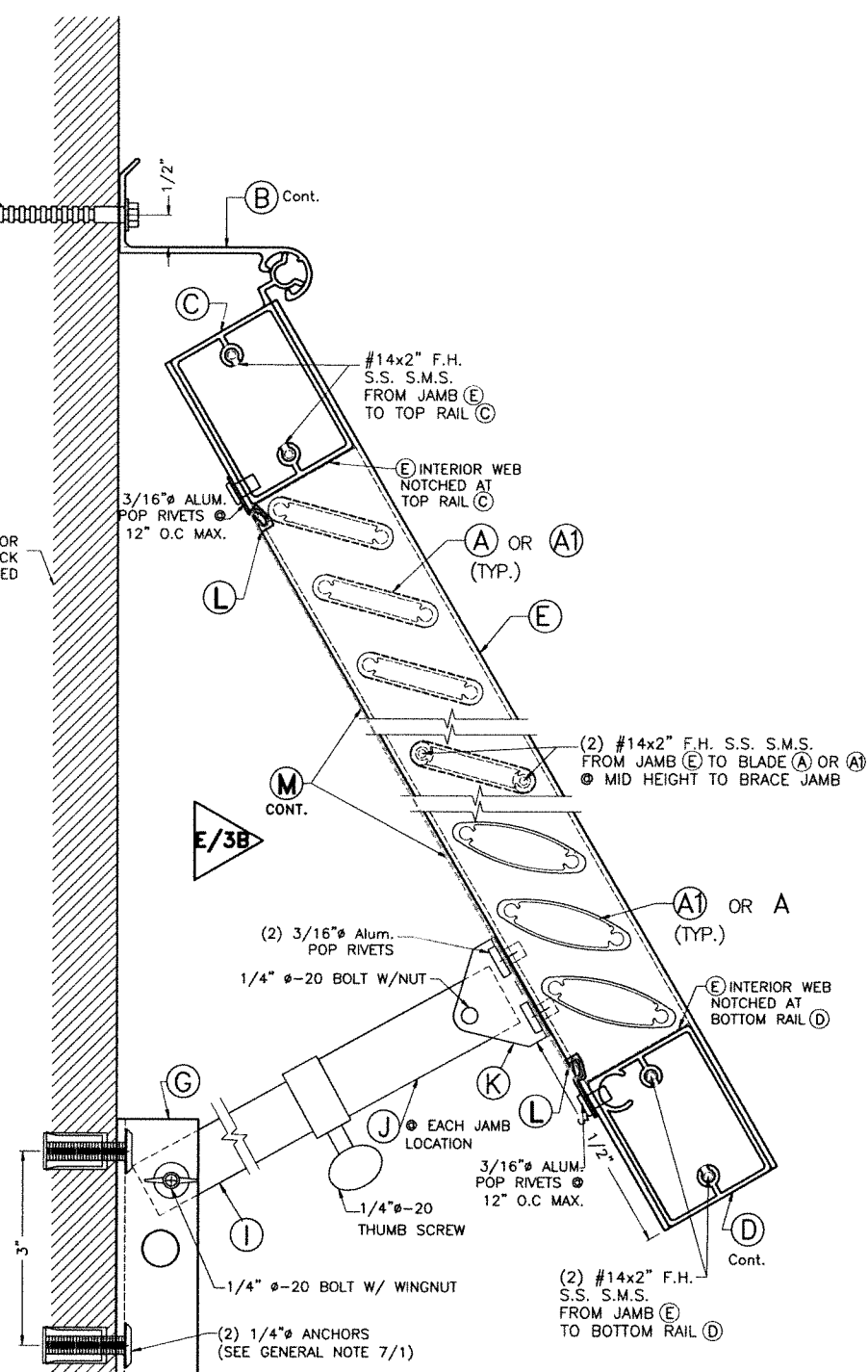
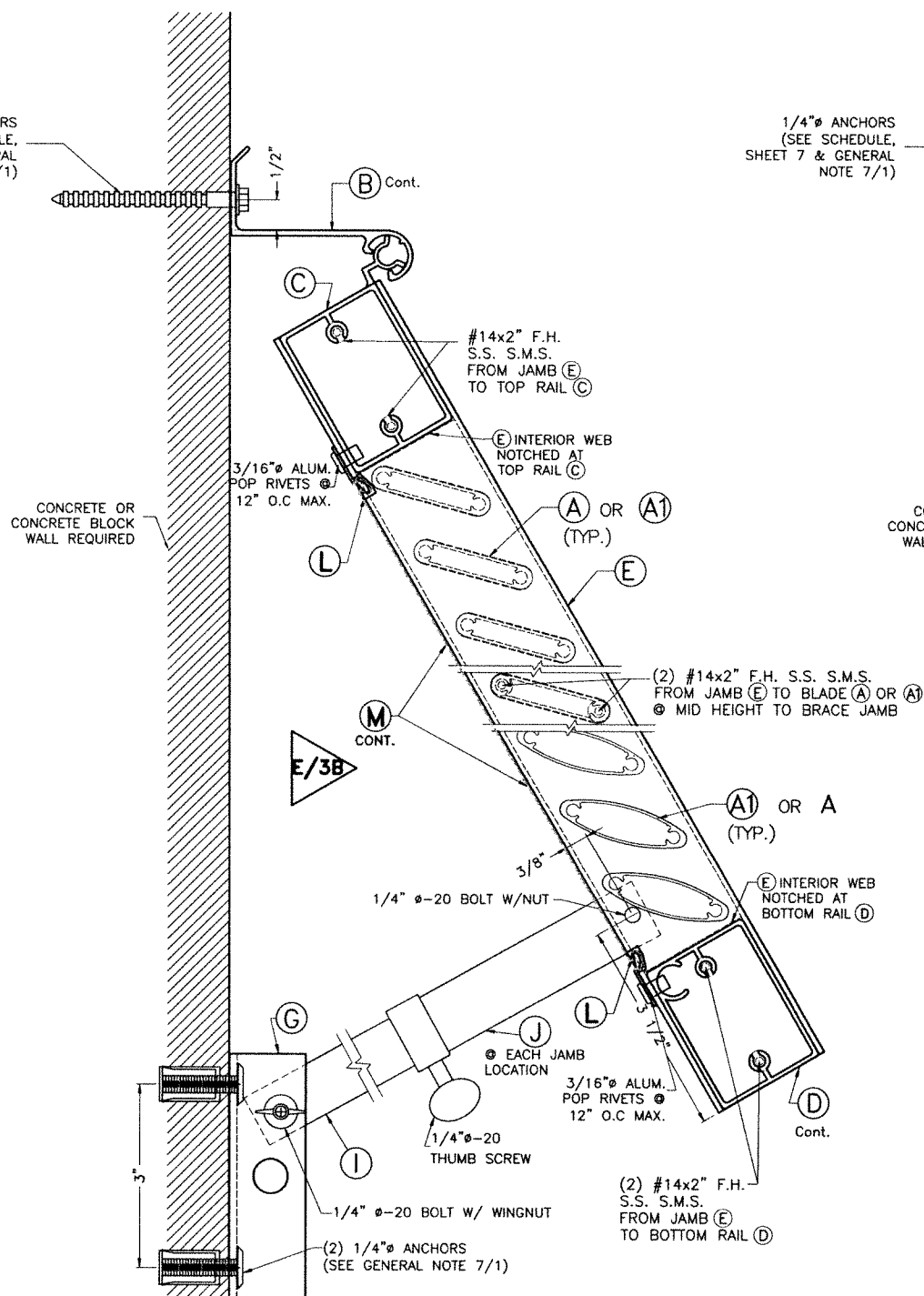
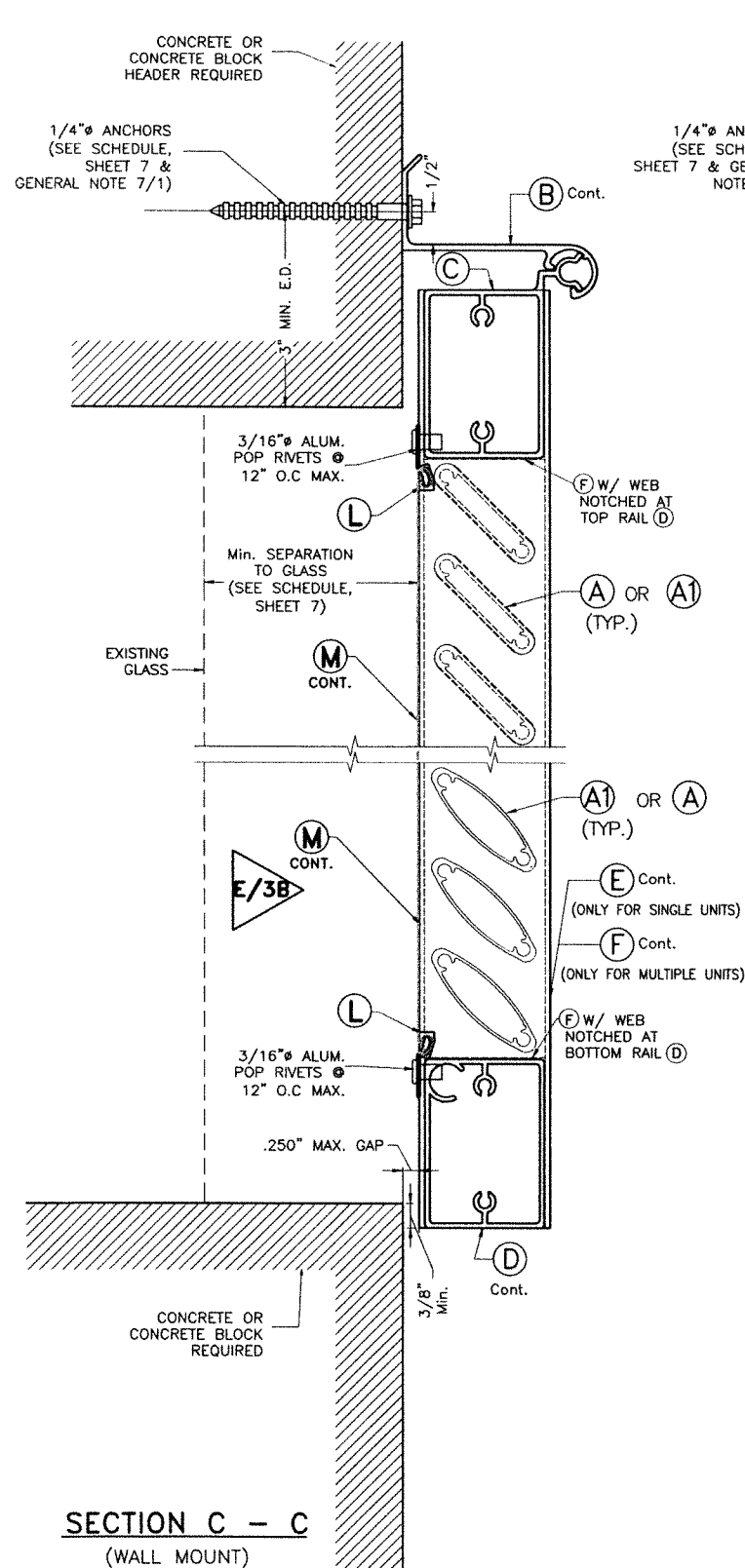
ALTERNATE SECTION D'-D'
(WALL MOUNT)
NON HURRICANE POSITION
SCALE: 3/8" = 1"
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

**CONNECTION TO CONCRETE OR CONCRETE BLOCK
W/ EXTERIOR LOCKING ROD (H) FIXATION**

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4268 WESTROADS DRIVE
WEST PALM BEACH, FLORIDA 33407
PH: (800)432-2204 FAX: (561)209-8380
REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE
1 OLD 23-139 6/30/26 3
2 4
W.H. DRAWN BY
6/30/2026 DATE
26-099
DRAWING No
SHEET 6 OF 7



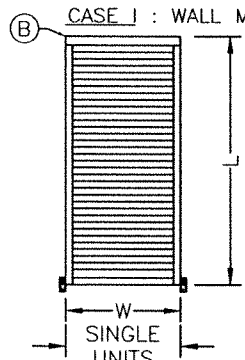
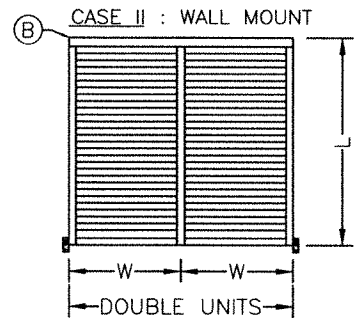
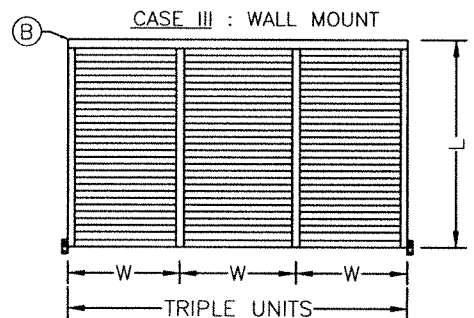
**CONNECTION TO CONCRETE OR CONCRETE BLOCK
W/ INTERIOR LOCKING ROD (H) FIXATION**

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/29/2022
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
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WALTER A. TILLIT Jr., P. E.
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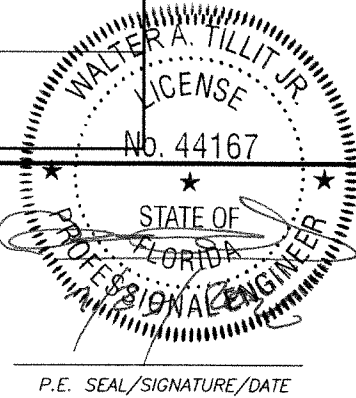
ASSA / BERTHA H.V. BAHAMA SHUTTER (LARGE MISSILE & SMALL MISSILE)			W.H. DRAWN BY		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE		
4268 WESTROADS DRIVE WEST PALM BEACH, FLORIDA 33407 PH: (800)432-2204 FAX: (561)209-8380			26-099 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-139	6/30/26	3		
2			4		
			SHEET 6A OF 7		

SCHEDULE # 1
MAXIMUM SHUTTER SPAN "L" (in), MAXIMUM SHUTTER WIDTH "W" (in) FOR SINGLE (CASE I) & MULTIPLE (CASES II & III) UNITS FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING FOR INSTALLATIONS INTO POURED CONCRETE, CONCRETE BLOCK OR WOOD SUBSTRATES

BAHAMA SHUTTER ELEVATIONS	SINGLE UNITS ELEVATION		MULTIPLE UNITS ELEVATIONS		
	CASE I : WALL MOUNT	CASE II : WALL MOUNT	CASE III : WALL MOUNT		
					
CASE	MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)	INTERIOR MULLION TYPE REQUIRED	MINIMUM SEPARATION TO GLASS (IN)
I	+45.0 , -55.0	42"	96"	N/A	4 5/8"
II & III	+45.0 , -50.0	40"	70"	(F)	3 5/8"

SCHEDULE # 2
MAXIMUM ANCHOR SPACING AT TOP FEMALE HINGES (B)
FOR SINGLE (CASE I) & MULTIPLE (CASES II & III) UNITS
FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING & SUBSTRATE TYPE

CASE	MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	SUBSTRATE	
		WOOD SOUTHERN PINE No.2	POURED CONCRETE OR CONCRETE BLOCK
I	+45.0 , -55.0	12"	7 1/2"
II & III	+45.0 , -50.0	7 1/2"	7 1/2"



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-139	6/30/26	3		
2			4		
			SHEET 7 OF 7		