

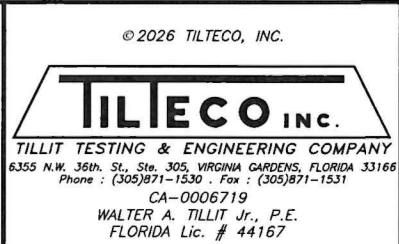
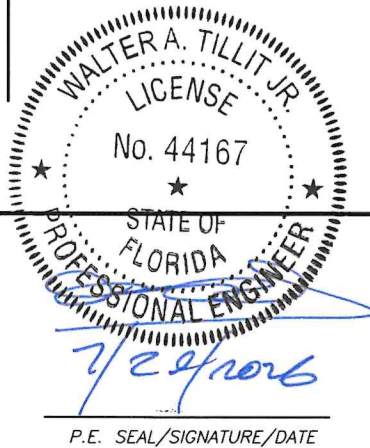
GENERAL NOTES:

1. **EXTRUDED BERTHA BAHAMA SHUTTER** SHOWN ON THIS PRODUCT EVALUATON DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2026** (9th EDITION) OF THE FLORIDA BUILDING CODE. THIS BAHAMA SHUTTER SYSTEM 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 SHEETS 7, 8 & 9.
- 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 SHEETS 7, 8 & 9.
- IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. HOWEVER, FOR FASTENING INTO WOOD, A 1.60 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREW SPACING.
- EXTRUDED BERTHA BAHAMA SHUTTER'S ADEQUACY FOR **IMPACT AND FATIGUE STRENGTH** HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1626** OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS #0923.01-97 AND #0309.01-04 AS PER PROTOCOLS **TAS-201, TAS-202 AND TAS-203. IMPACT MISSILE IS 9Lb, 2"x4", 50ft/Sec.**
2. 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.
3. ALL SCREWS SHALL BE STAINLESS STEEL 304 OR 316 SERIES W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 & SHALL COMPLY WITH FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.
4. BOLTS SHALL BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL WITH 36 ksi MINIMUM YIELD STRENGTH.
5. ALL ALUMINUM POP RIVETS SHALL BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
6. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)
- (A) TO EXISTING POURED CONCRETE: (Min. $f'_c=3145$ p.s.i.)
- 1/4" ϕ 410 SS TAPCON OR 1/4" ϕ ULTRACON+ OR 1/4" ϕ ULTRACON SS4 ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX OR DEWALT RESPECTIVELY.
 - 1/4" ϕ ELCO FEMALE PANEL MATE ANCHORS OR 1/4" ϕ 304 SS ALL THREADED ROD AS MANUFACTURED BY ELCO CONSTRUCTIONS PRODUCTS OR HILLMAN RESPECTIVELY.
- NOTES:
- A.1) MINIMUM EMBEDMENT OF 1/4" ϕ ANCHORS INTO POURED CONCRETE IS 1 1/2".
- A.2) ELCO FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" ϕ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1) & A.2) ABOVE.
- (B) TO EXISTING CONCRETE BLOCK WALL:
- 1/4" ϕ 410 SS TAPCON OR 1/4" ϕ ULTRACON+ OR 1/4" ϕ ULTRACON SS4 OR 1/4" ϕ 304 SS ALL THREADED ROD ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX OR DEWALT OR HILLMAN RESPECTIVELY.
 - 1/4" ϕ ELCO FEMALE PANEL MATE ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTIONS PRODUCTS.

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

NOTES:

- B.1) MINIMUM EMBEDMENT OF 1/4" ϕ ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) ELCO FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" ϕ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.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 B.1) & B.2) ABOVE.
- (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.
7. EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH SIDE & SILL BRACKETS DURING PERIODS OF HURRICANE WARNINGS.
8. 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 PERMANENT AND CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL SHUTTER TRACKS ALL AROUND FULL LENGTH. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
9. EXTRUDED BERTHA 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.
10. (a) THIS 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 TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. 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.
11. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE BAHAMA SHUTTER, 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.



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

ASSA / EXTRUDED BERTHA BAHAMA SHUTTER

AMERICAN SHUTTER SYSTEMS ASSOC., INC.

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

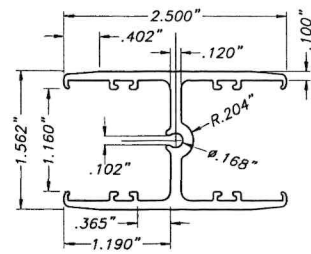
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2			4		

W.H.
DRAWN BY:

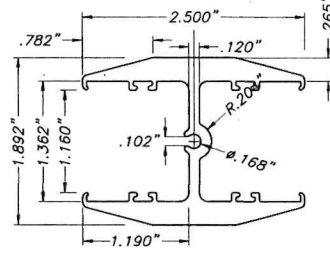
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DATE:

26-100
DRAWING No

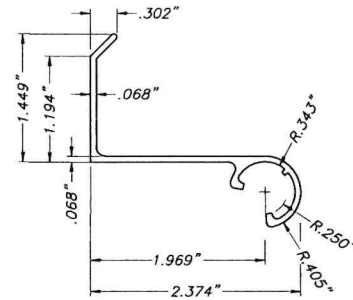
SHEET 1 OF 9



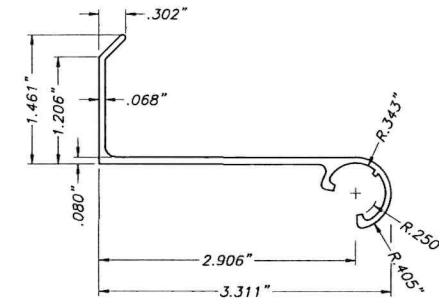
(A1) REGULAR INTERIOR MULLION
6005-T5 Alum. ALLOY
SCALE: 1/2" = 1"



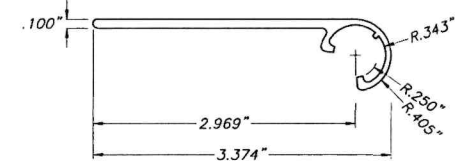
(A2) HEAVY INTERIOR MULLION
6005-T5 Alum. ALLOY
SCALE: 1/2" = 1"



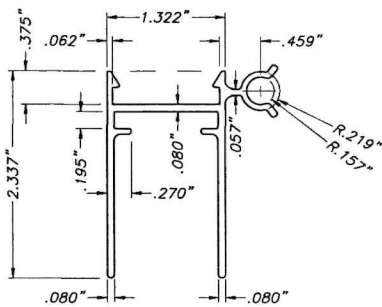
(B) FEMALE HINGE
SCALE: 1/2" = 1"



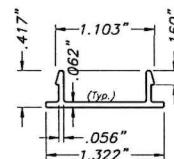
(C) 1" B. O. FEMALE HINGE
SCALE: 1/2" = 1"



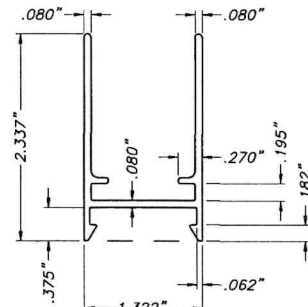
(D) FLAT FEMALE HINGE
SCALE: 1/2" = 1"



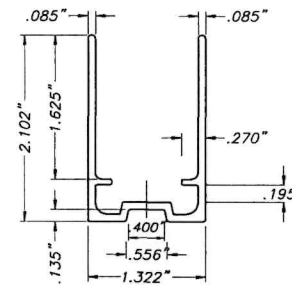
(E) BAHAMA MALE TOP FRAME
SCALE: 1/2" = 1"



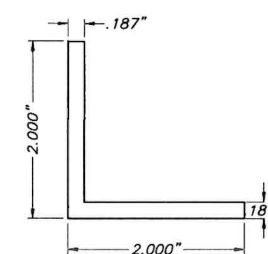
(F) SNAP CAP
SCALE: 1/2" = 1"



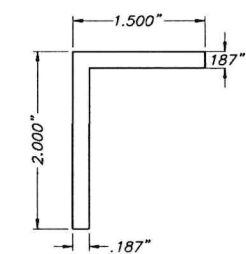
(G) BAHAMA FRAME
SCALE: 1/2" = 1"



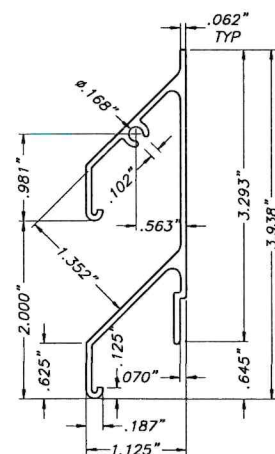
(G1) ALTERNATE BAHAMA FRAME
SCALE: 1/2" = 1"



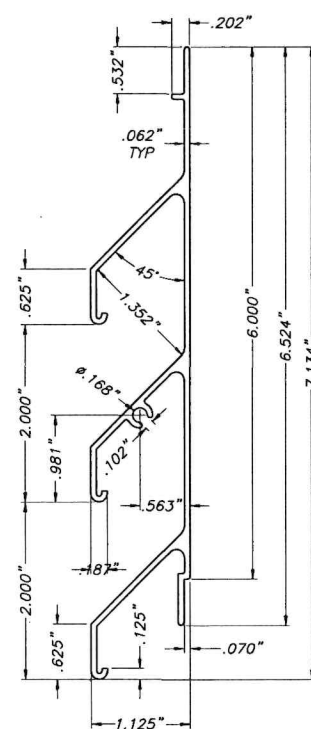
(H) CORNER KEY
1" LONG
SCALE: 1/2" = 1"



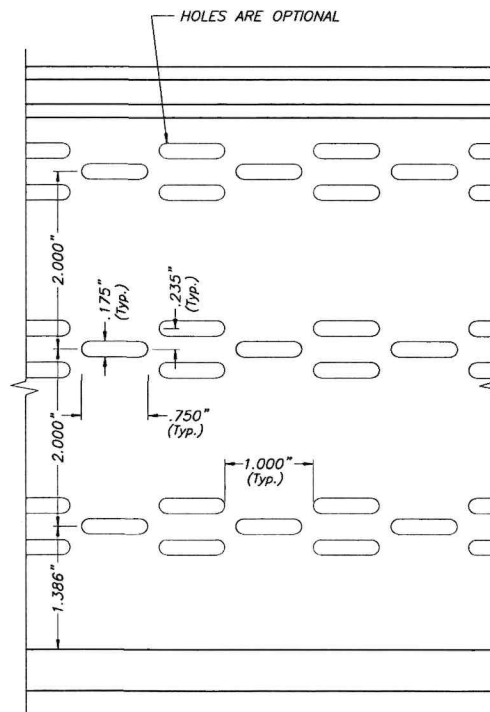
(N) WALL MOUNT Alum. BRACKET
7" LONG
SCALE: 1/2" = 1"



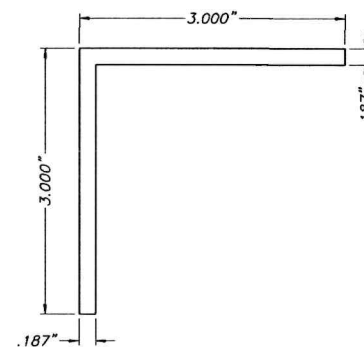
(I) HALF SHUTTER BLADE
SCALE: 1/2" = 1"



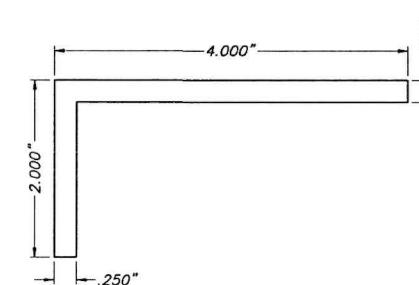
(J) SHUTTER BLADE
SCALE: 1/2" = 1"



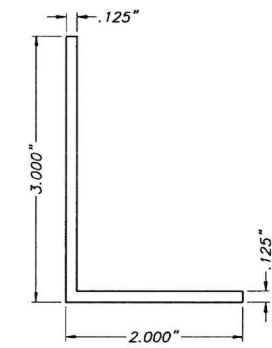
SHUTTER BLADE ELEVATION
SCALE: 1/2" = 1"



(O) BUILD-OUT Alum. BRACKET
7" LONG
SCALE: 1/2" = 1"

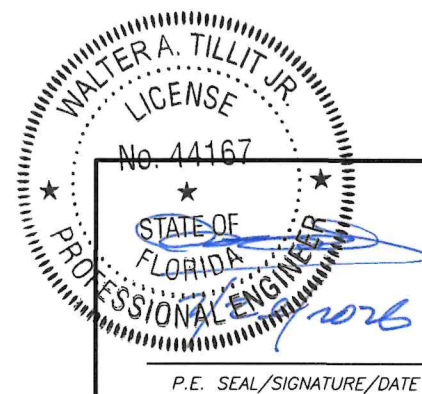


(P) BUILD-OUT SIDE BRACKET
7" LONG
SCALE: 1/2" = 1"



(Q) SILL ANGLE
SCALE: 1/2" = 1"

COMPONENTS



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

ASSA / EXTRUDED BERTHA BAHAMA SHUTTER

AMERICAN SHUTTER SYSTEMS ASSOC., INC.

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

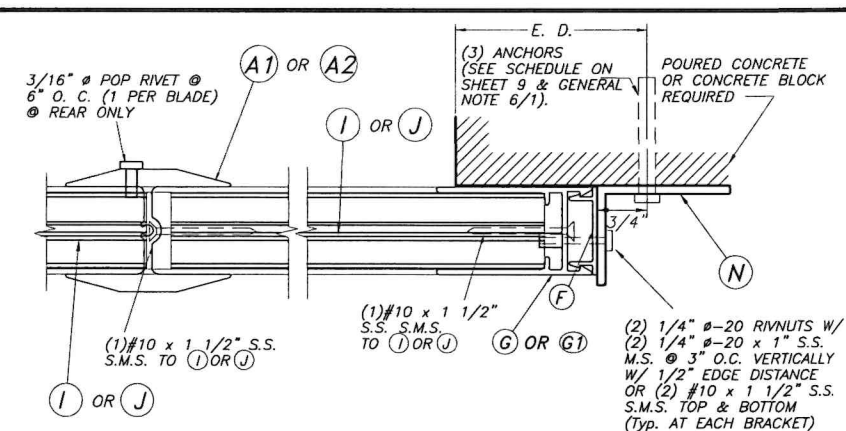
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1	OLD 23-140	6/30/26	3		
2			4		

W.H.
DRAWN BY:

6/30/2026
DATE:

26-100
DRAWING No

SHEET 2 OF 9



(3) ANCHORS
(SEE SCHEDULE ON
SHEET 9 & GENERAL
NOTE 6/1).

POURED CONCRETE
OR CONCRETE BLOCK
REQUIRED

2" x 3 3/16" (Max.)
x 1/8" CLOSURE
Alum. ANGLE (Cont.)
(6063-T6 ALLOY)

(1) #14 x 3/4" S.S.
S.M.S. @ 9" O.C.

(1) OR (J)

2"

(2) 1/4" Ø-20 RIVNUTS W/
(2) 1/4" Ø-20 x 1" S.S.
M.S. @ 3" O.C. VERTICALLY
W/ 1/2" EDGE DISTANCE
OR (2) #10 x 1 1/2" S.S.
S.M.S. TOP & BOTTOM
(Typ. AT EACH BRACKET)

(N) OR (P)

3/4"

(F)

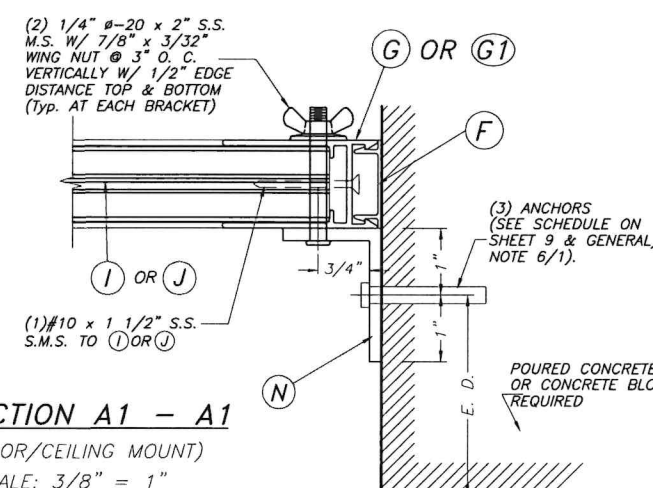
(1) #10 x 1 1/2" S.S.
S.M.S. TO (1) OR (J)

(G) OR (G1)

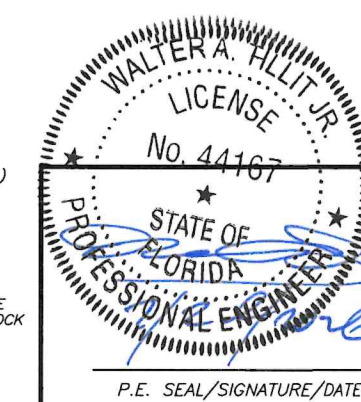
SECTION B-B

(BUILD-OUT) SCALE : 3/8" = 1"

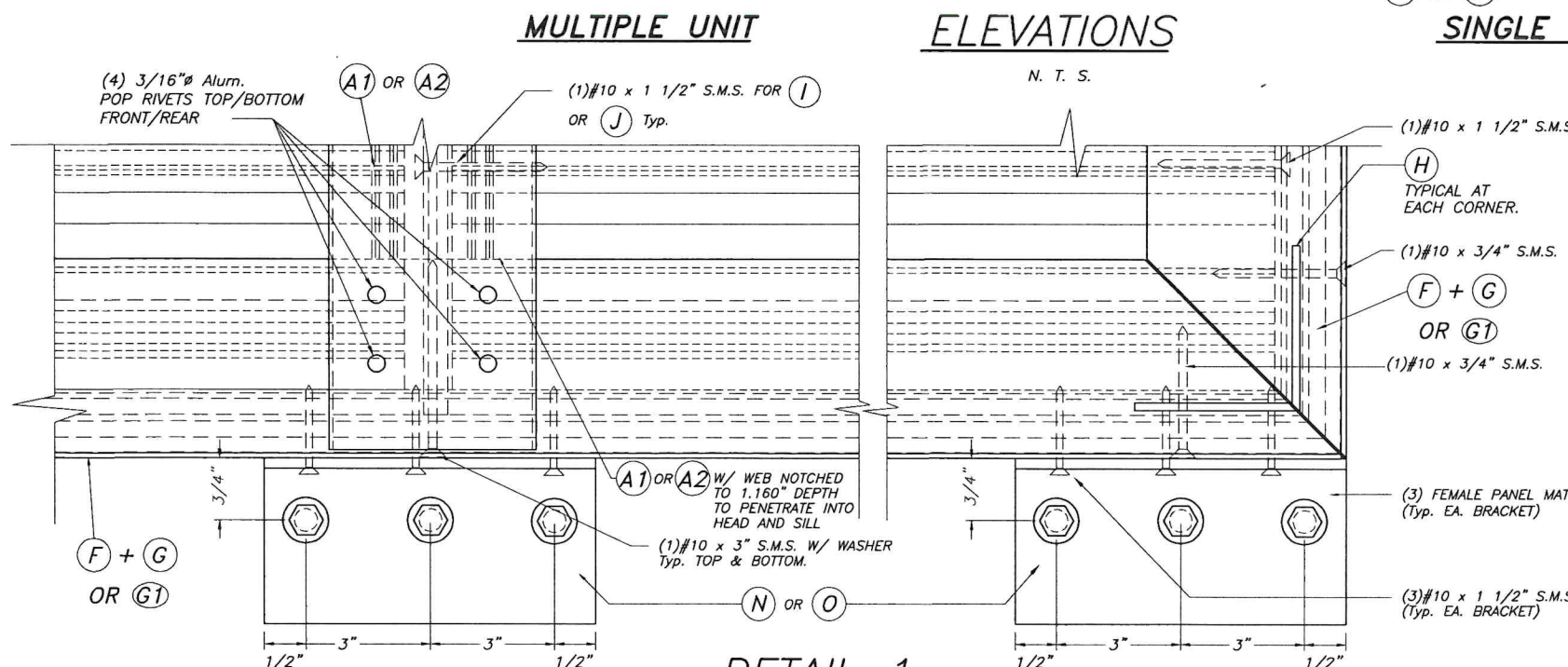
NOTE:
E. D. = 3 1/2" Min.



SECTION A1 - A1
(FLOOR/CEILING MOUNT)
SCALE: 3/8" = 1"



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)



DETAIL

SCALE : 1/2" = 1"

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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

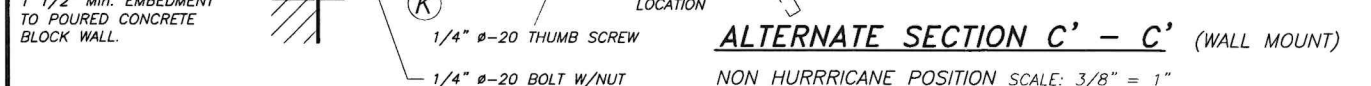
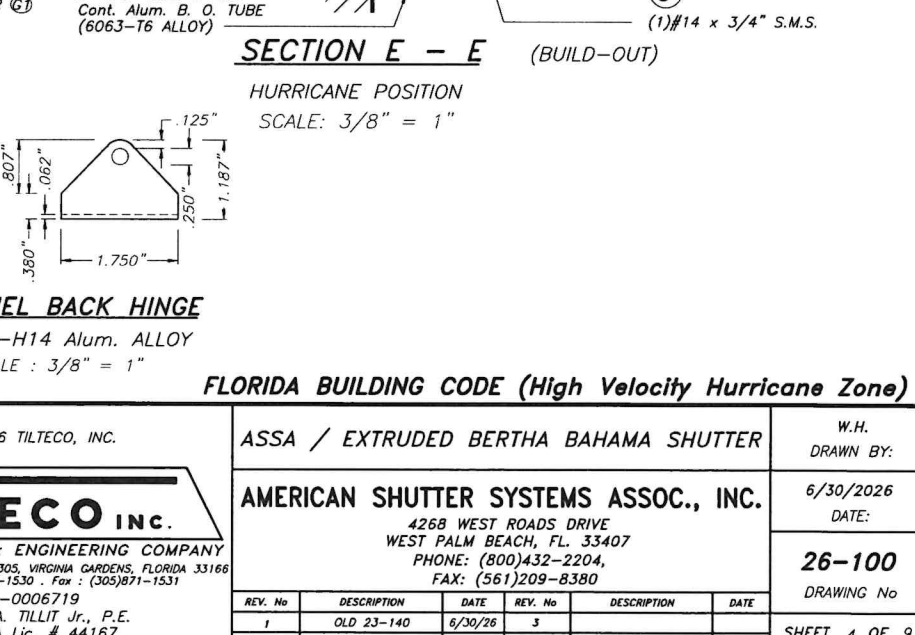
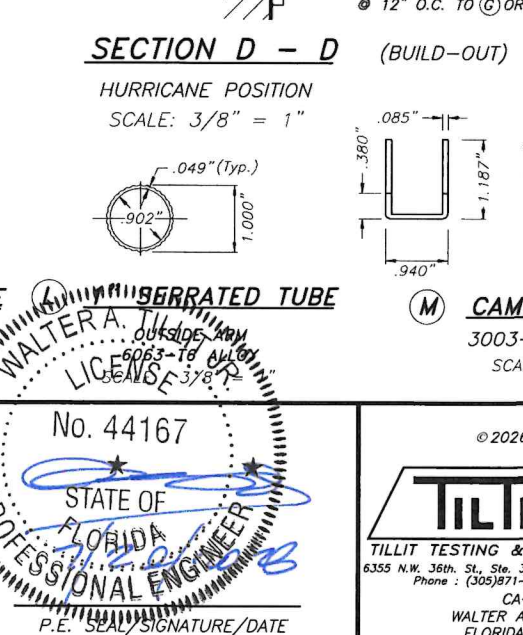
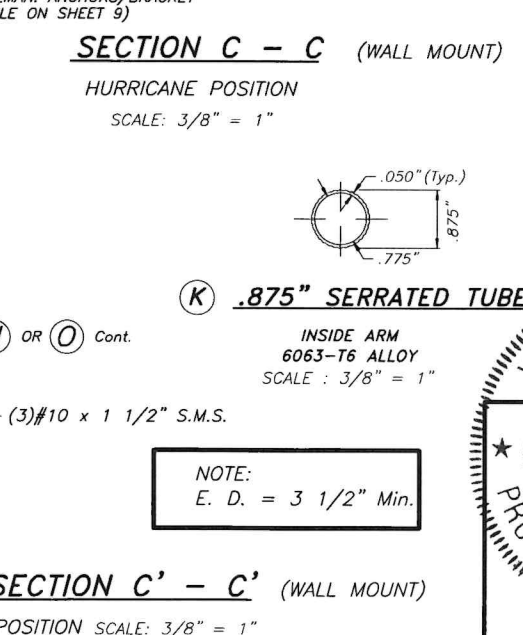
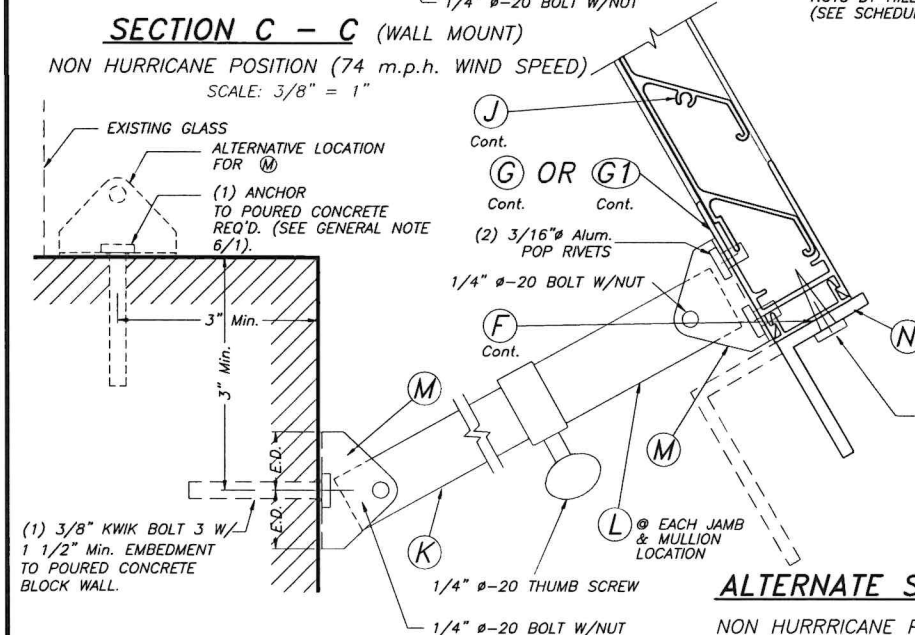
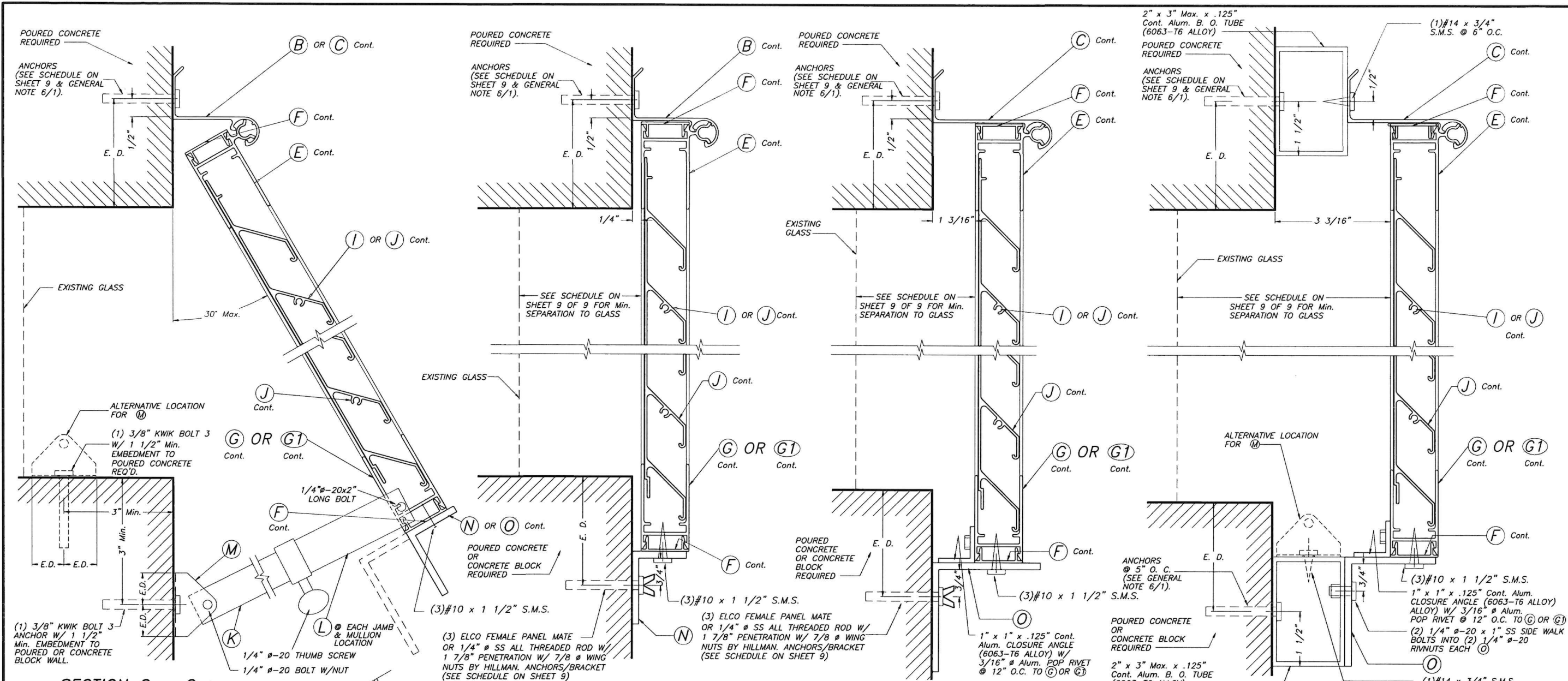
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

ASSA / EXTRUDED BERTHA BAHAMA SHUTTER

AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (800)432-2204,
FAX: (561)202-2284

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-140	6/30/26	3		

W.H. DRAWN BY:	
6/30/2026 DATE:	
26-100 DRAWING No	
SHEET 3 OF 9	

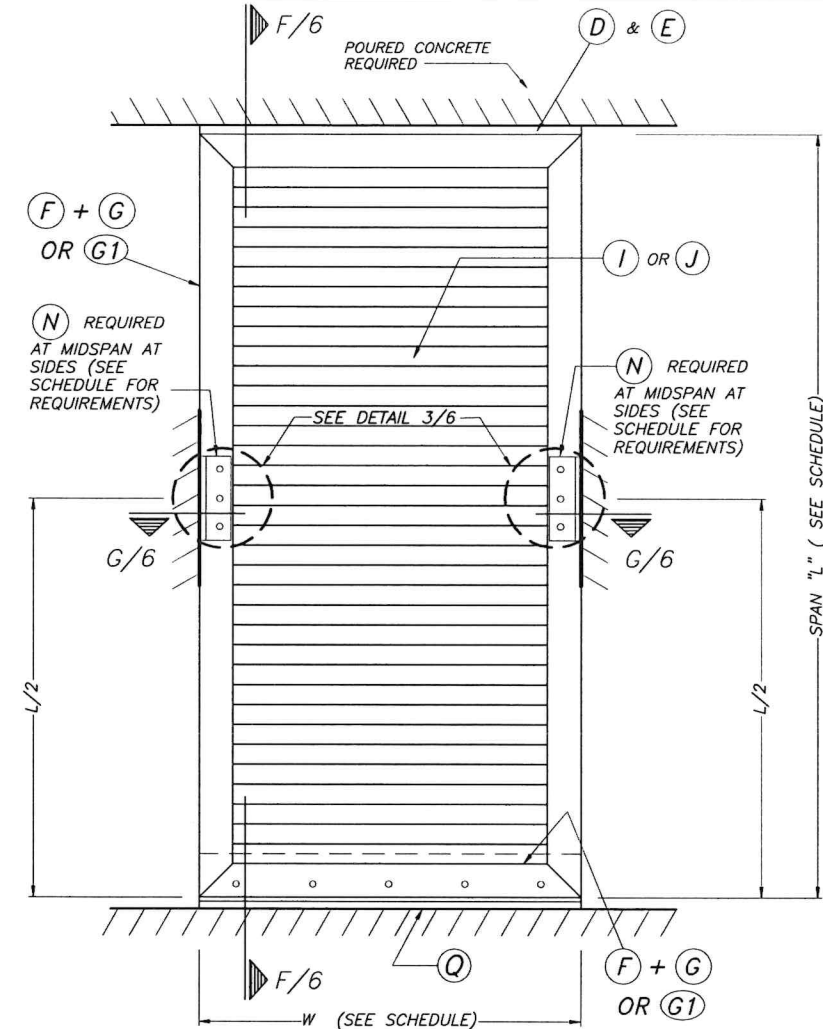
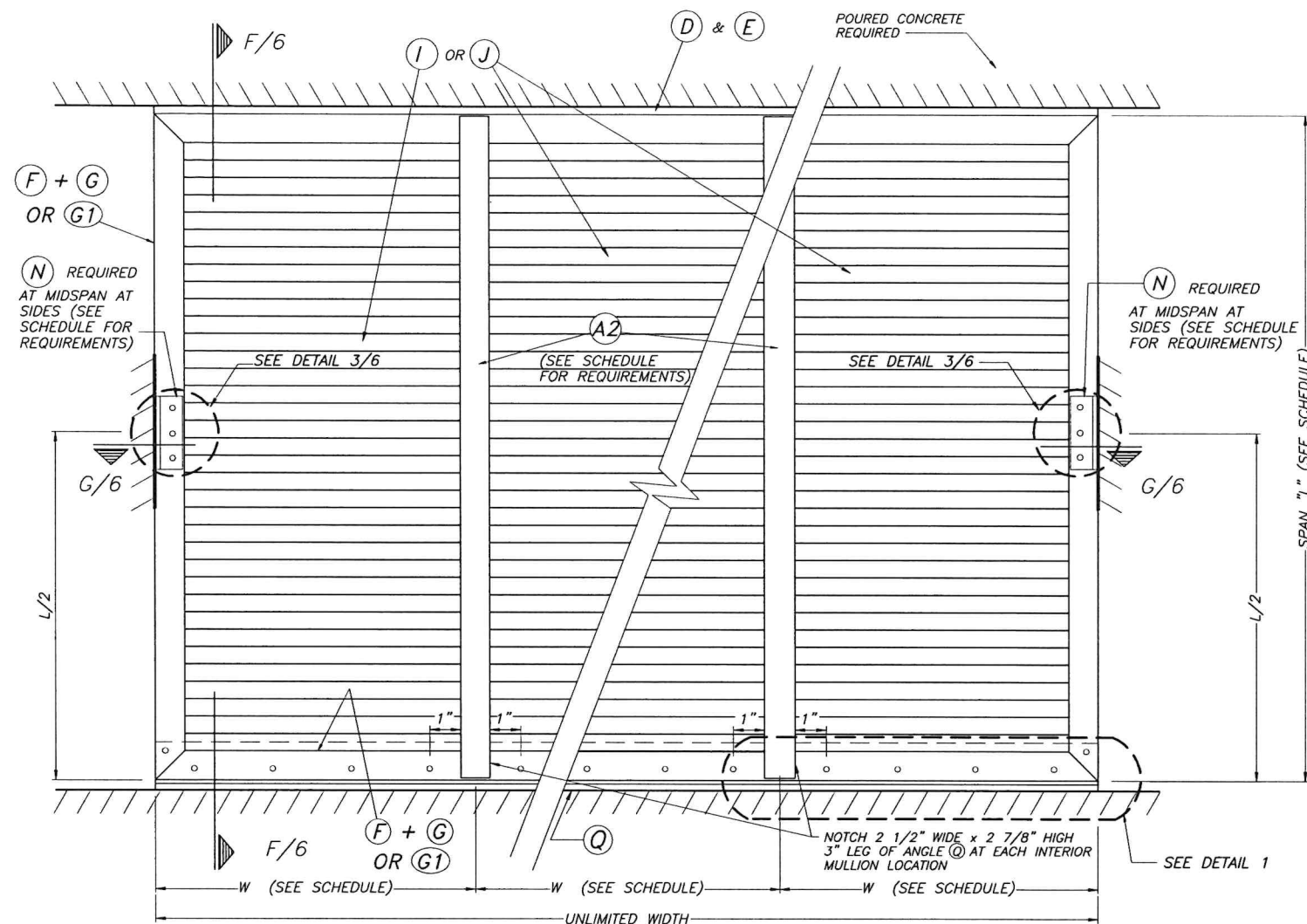


WALTER A. TILLIT, P.E.
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 P.E. SEAL/SIGNATURE/DATE

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 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
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 CA-0006719
 WALTER A. TILLIT Jr., P.E.
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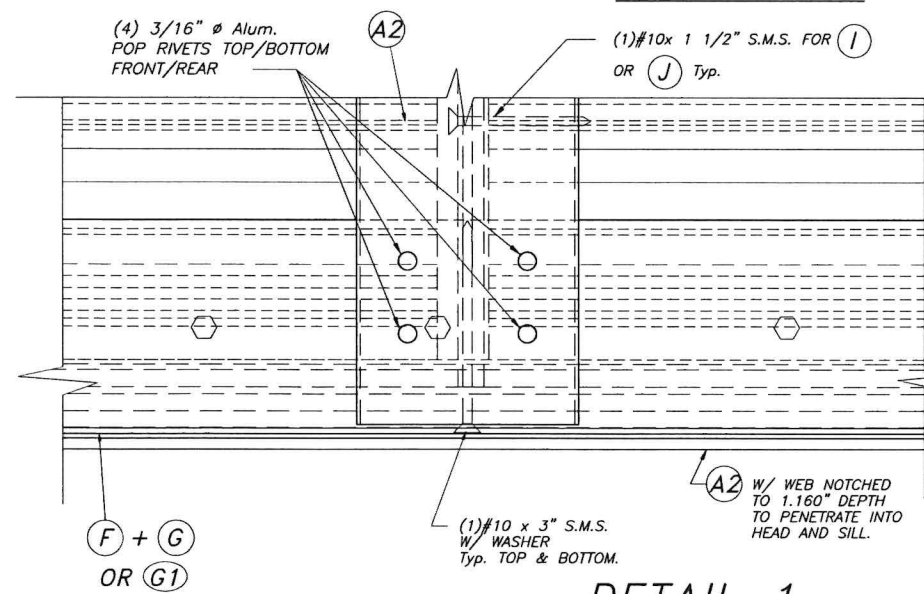
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER						W.H. DRAWN BY:
AMERICAN SHUTTER SYSTEMS ASSOC., INC.						6/30/2026 DATE:
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204, FAX: (561)209-8380						26-100 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 4 OF 9
1	OLD 23-140	6/30/26	3			
2			4			



MULTIPLE UNIT

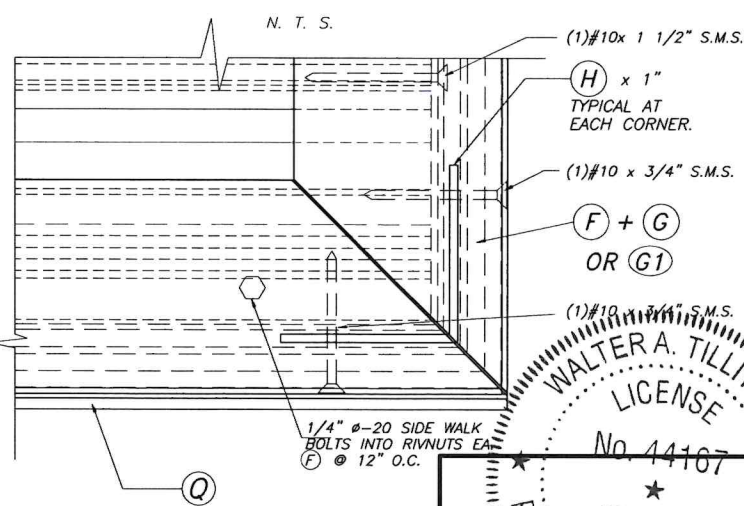
SINGLE UNIT

ELEVATIONS



DETAIL 1

SCALE: 1/2" = 1"



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

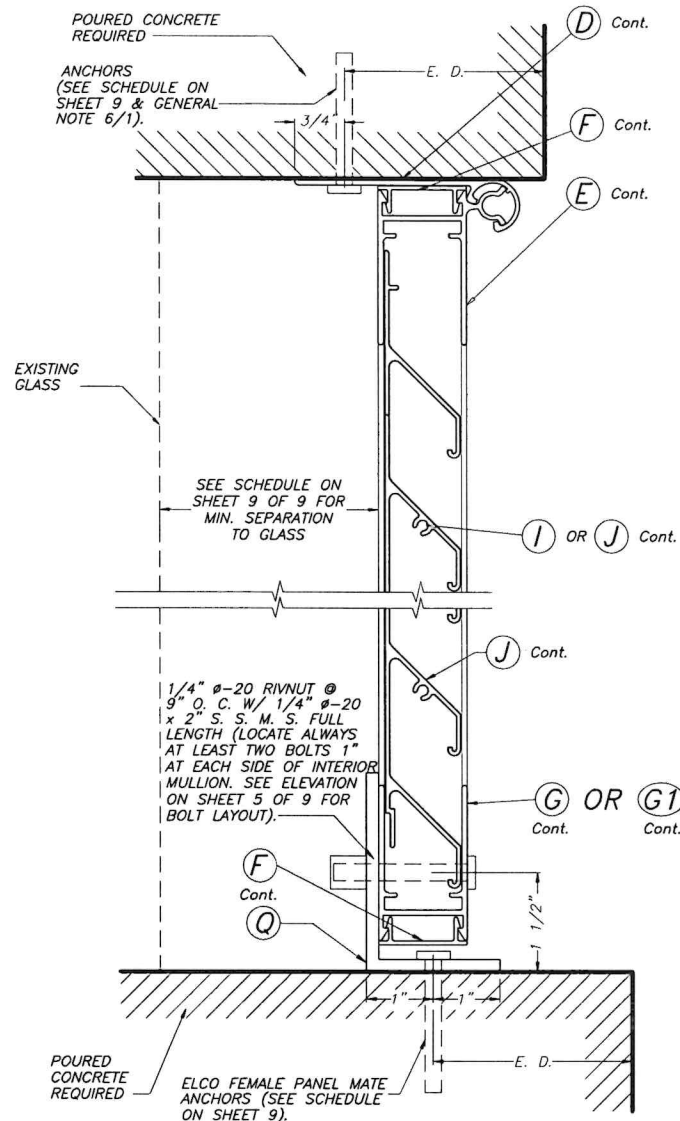
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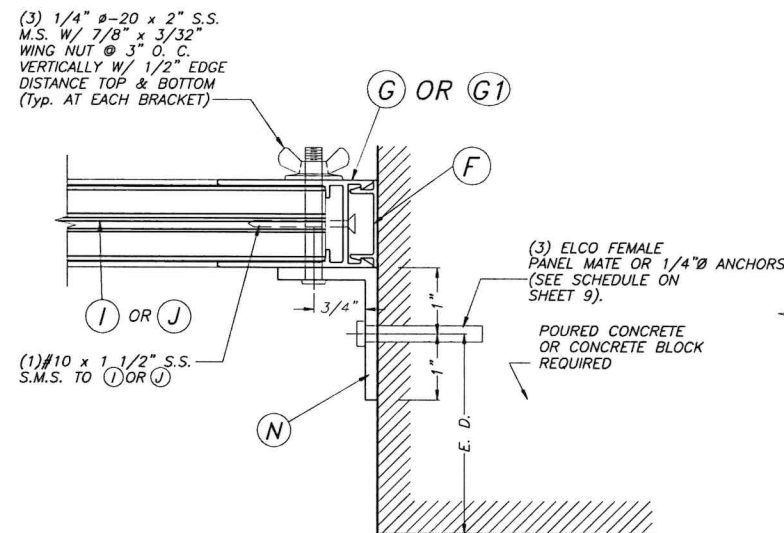
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER
AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

W.H.
DRAWN BY:
6/30/2026
DATE:
26-100
DRAWING No
SHEET 5 OF 9

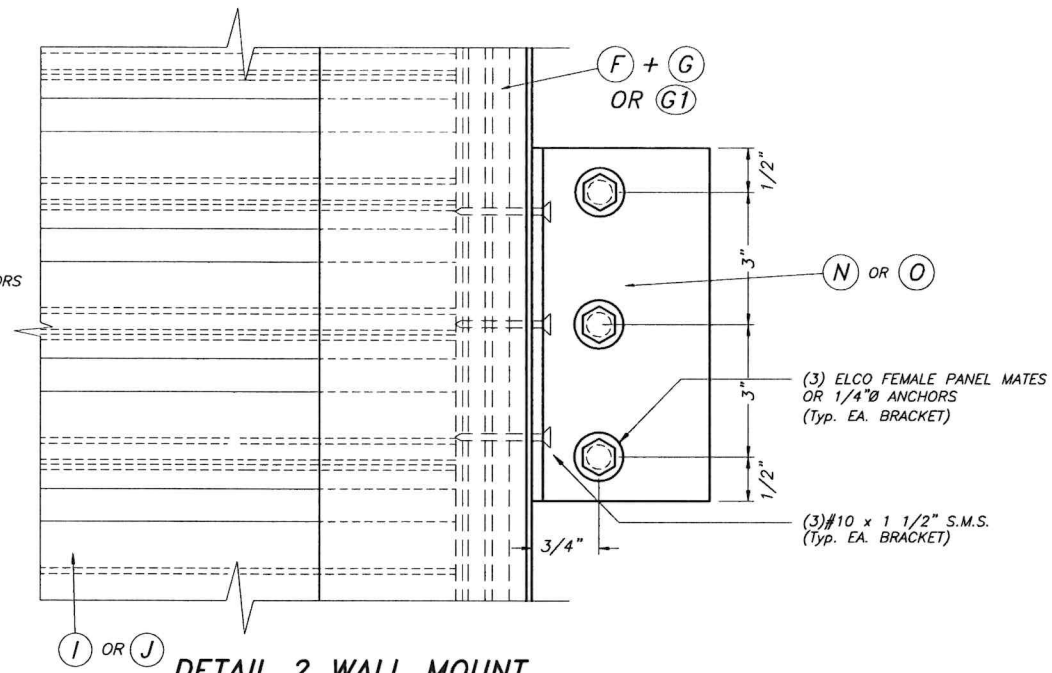


SECTION F - F (TRAPPED MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"

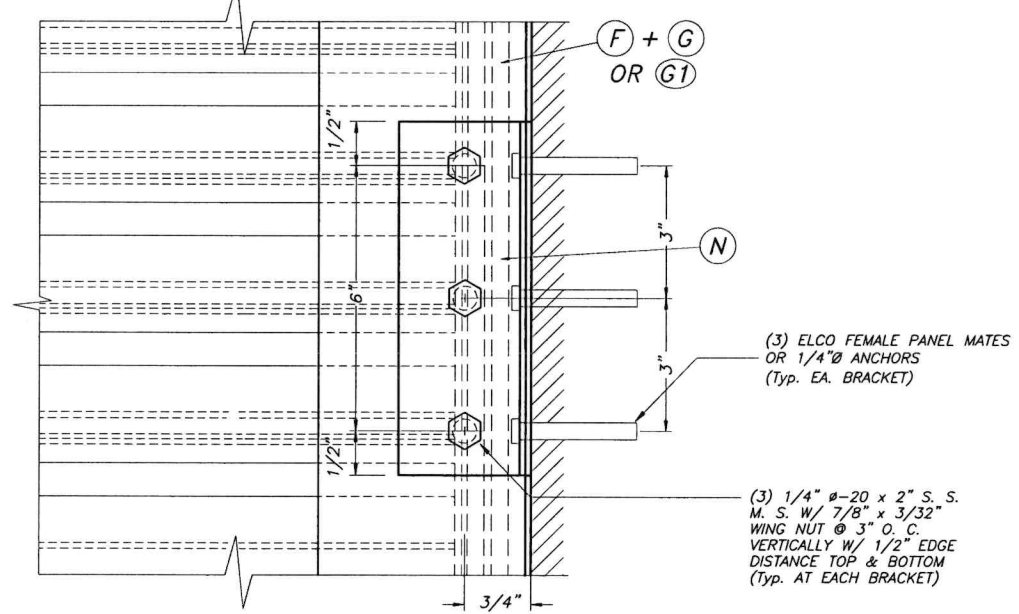


SECTION G - G
(TRAPPED MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"

NOTE:
E. D. = 3 1/2" Min.



DETAIL 2 WALL MOUNT.
SCALE: 1/2" = 1"



DETAIL 3 TRAPPED
SCALE: 1/2" = 1"

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LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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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 / EXTRUDED BERTHA BAHAMA SHUTTER

AMERICAN SHUTTER SYSTEMS ASSOC., INC.

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

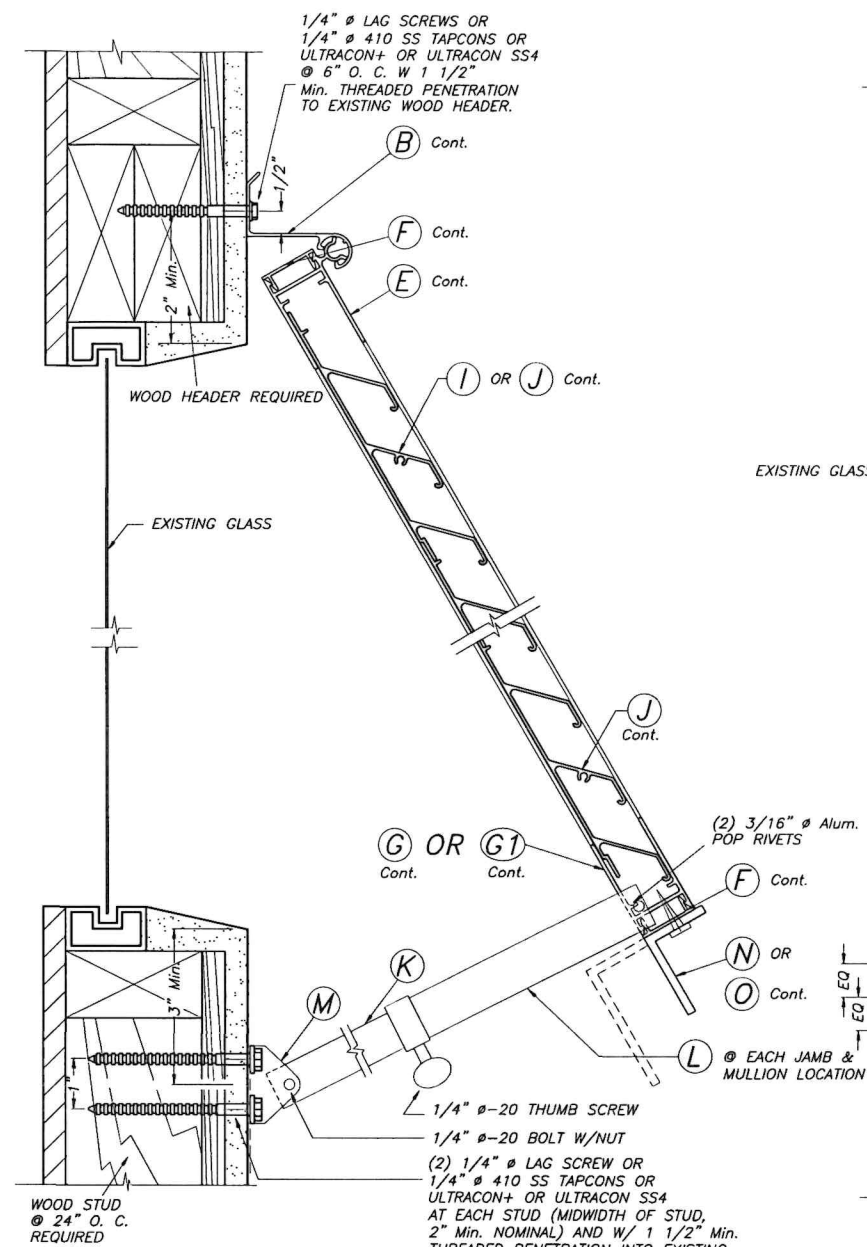
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1	OLD 23-140	6/30/26	3		
2			4		

W.H.
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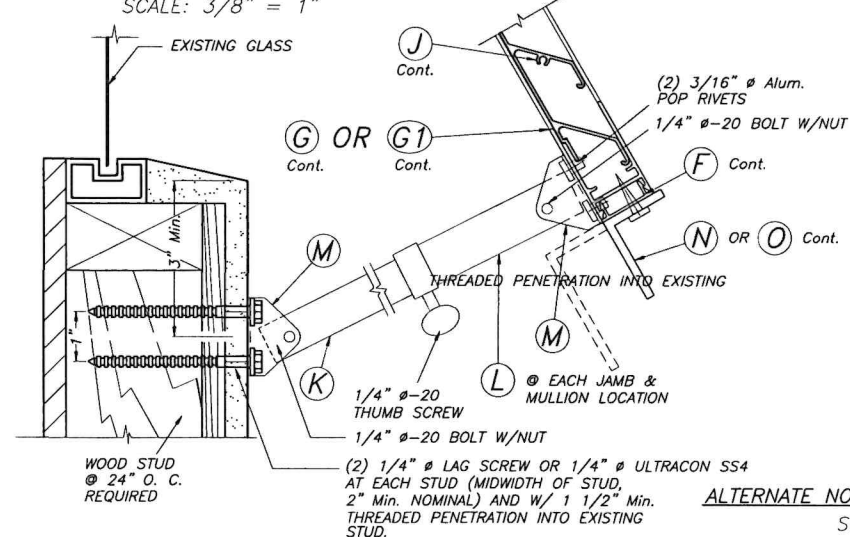
6/30/2026
DATE:

26-100
DRAWING No

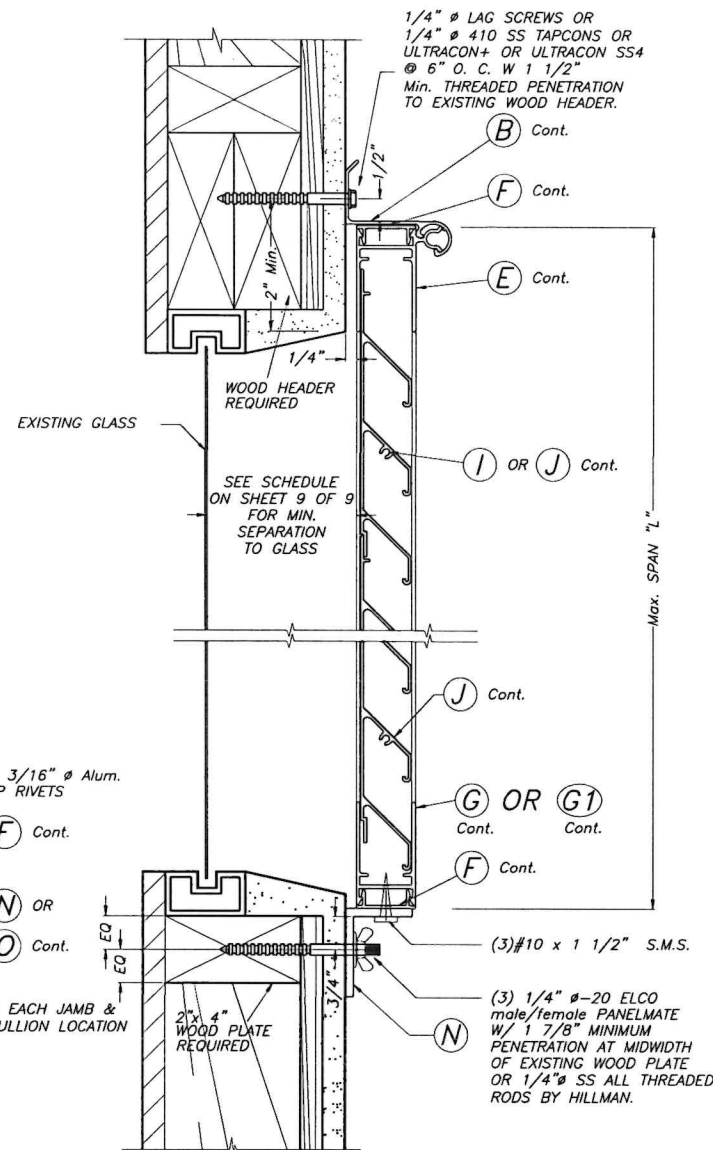
SHEET 6 OF 9



NON HURRICANE POSITION DETAIL: (74 m.p.h. OR LESS WIND SPEED)
SCALE: 3/8" = 1"



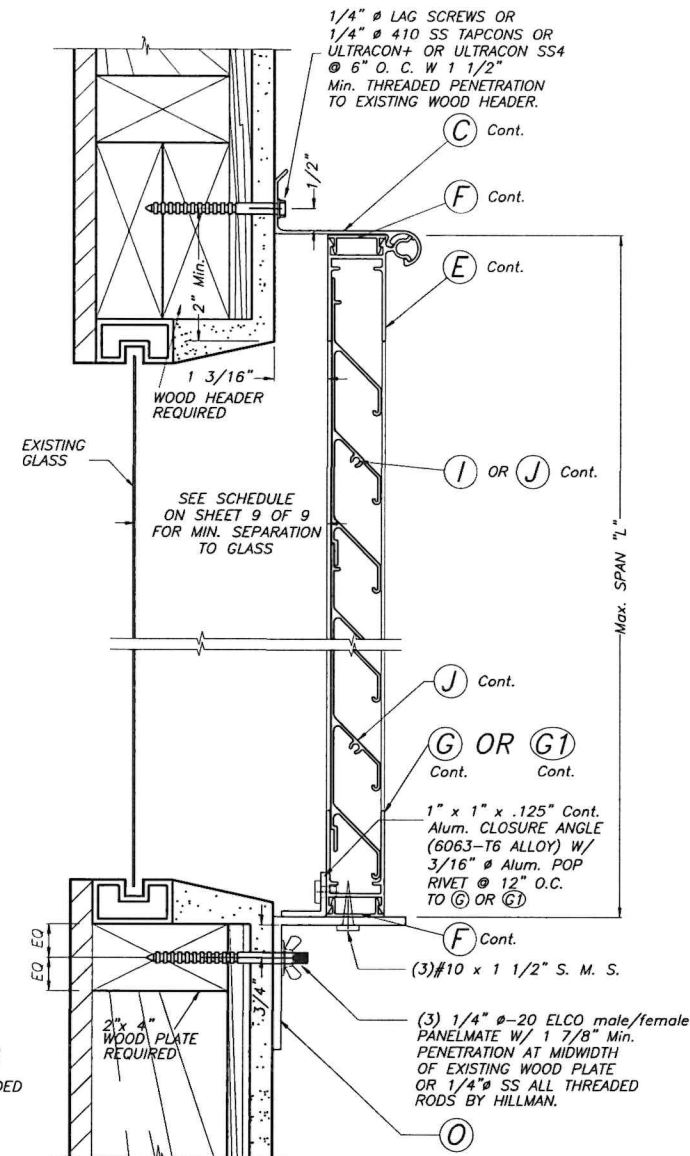
ALTERNATE NON HURRICANE POSITION DETAIL
SCALE: 3/8" = 1"



ALTERNATIVE 1

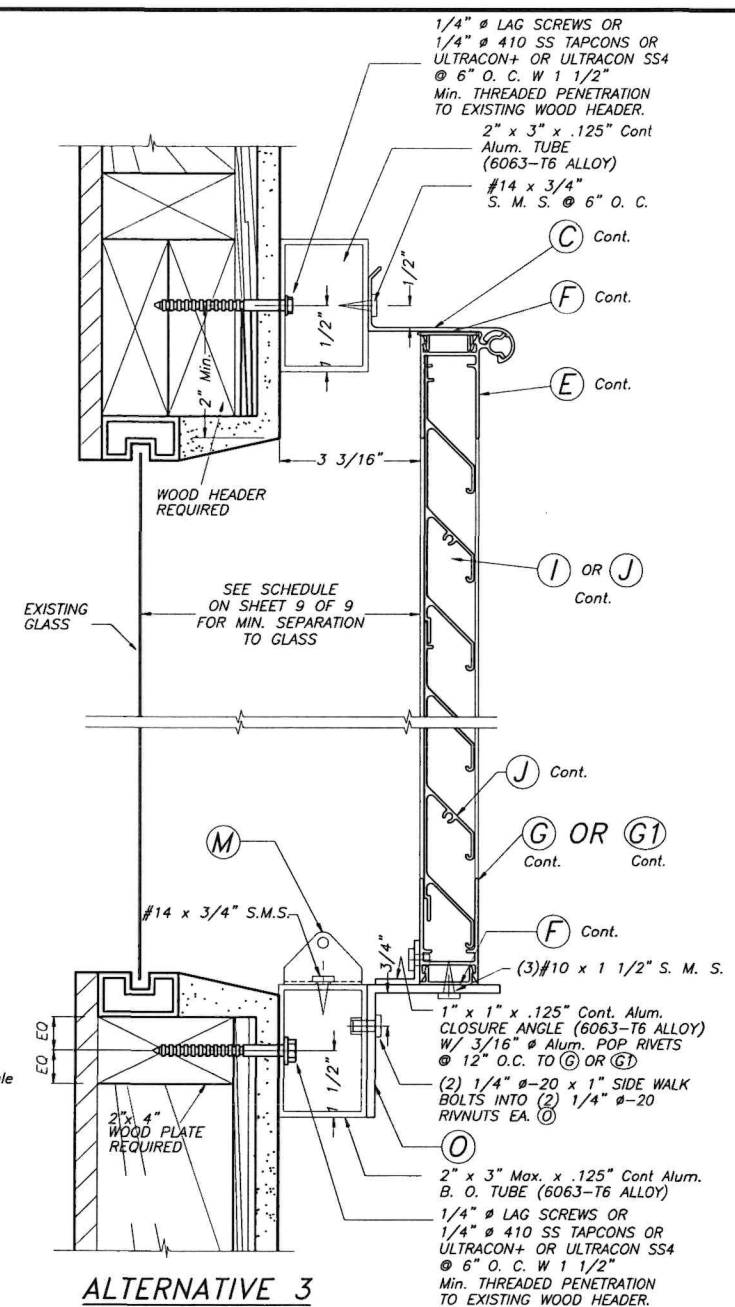
HURRICANE POSITION
SCALE: 3/8" = 1"

WALL MOUNTING INSTALLATION & BUILD-OUT - SECTION A INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



ALTERNATIVE 2

HURRICANE POSITION
SCALE: 3/8" = 1"



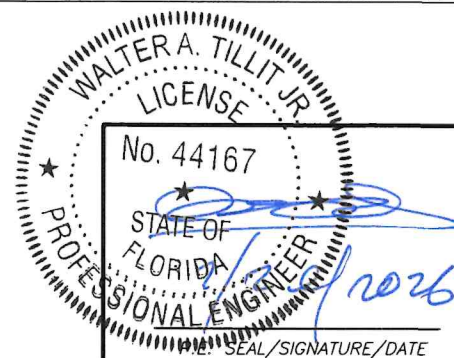
ALTERNATIVE 3

HURRICANE POSITION
SCALE: 3/8" = 1"

NOTES :

1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH A.S.D. DESIGN PRESSURE RATING LESS OR EQUAL THAN +62.0, -75.0 p.s.f. AND Max. SHUTTER SPAN AS PER SCHEDULES ON SHEET 9 OF 9.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
3. ONLY SS ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.

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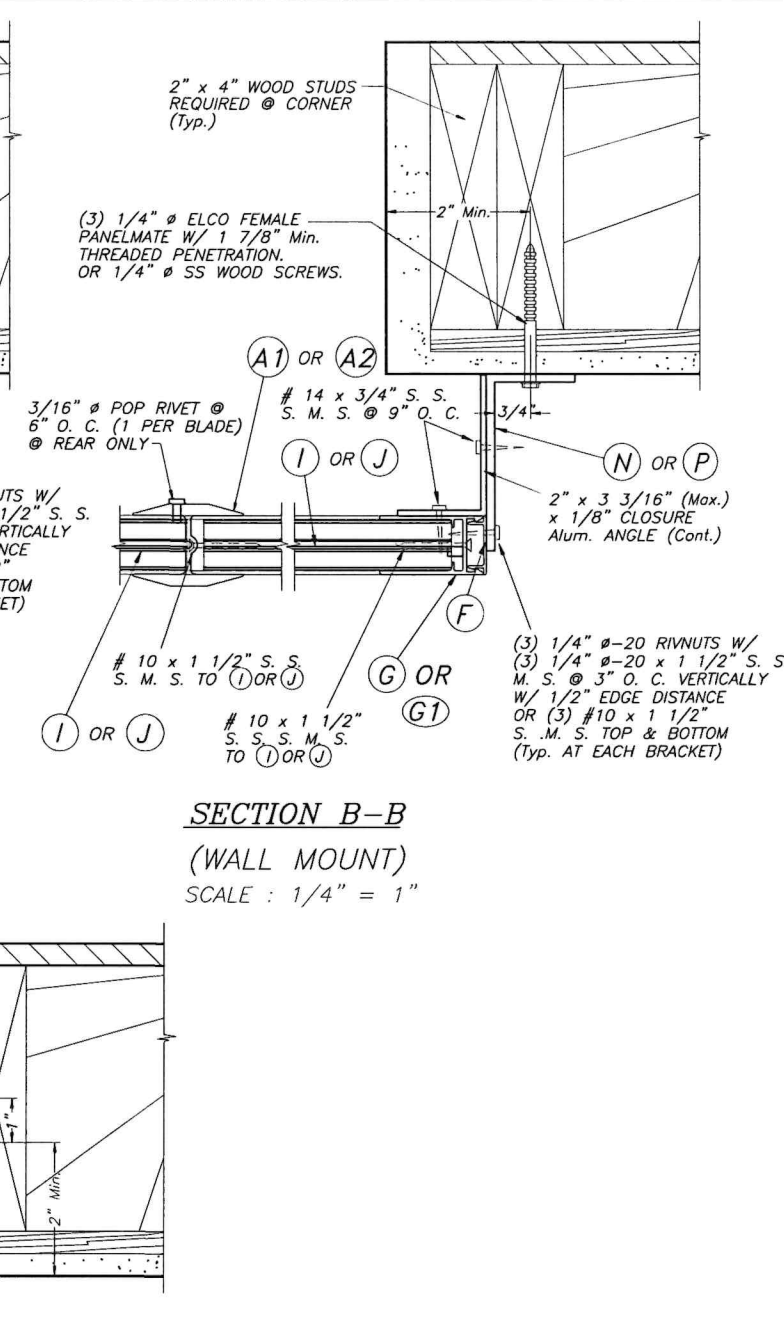
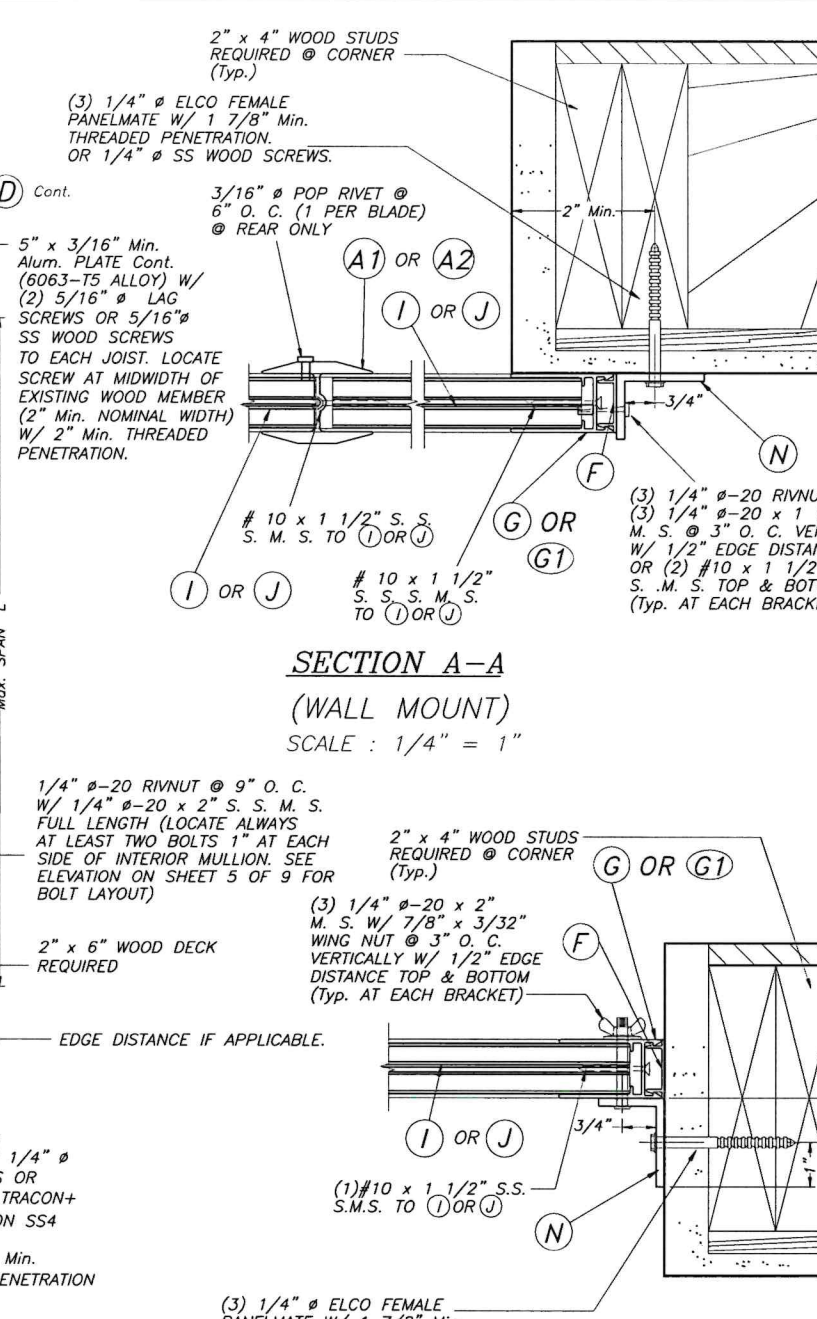
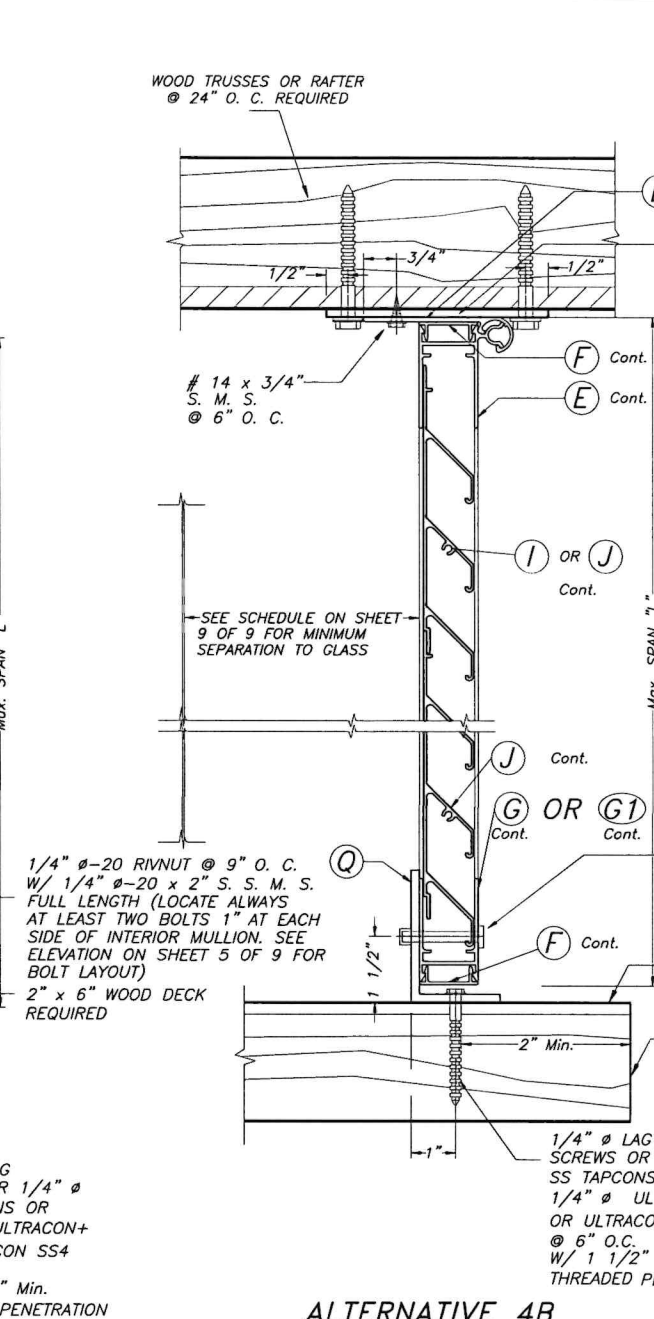
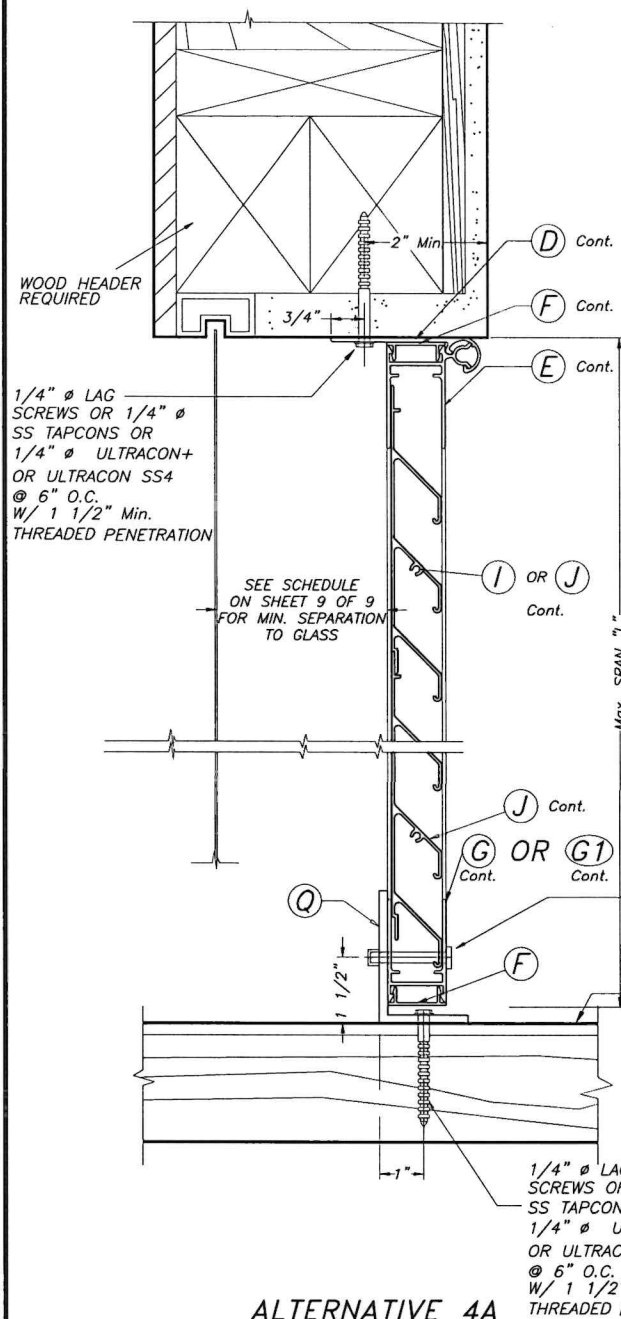
TILLIT TESTING & ENGINEERING COMPANY
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2			4		

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6/30/2026
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26-100
DRAWING No
SHEET 7 OF 9



FLOOR/CEILING MOUNTING INSTALLATION - SECTION A

SCALE: 1/4" = 1"

SECTION G-G (FLOOR/CEILING MOUNT) SCALE: 1/4" = 1"

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTES :

1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH A.S.D. DESIGN PRESSURE RATING LESS OR EQUAL THAN +62.0, -75.0 p.s.f. AND Max. SHUTTER SPAN AS PER SCHEDULES ON SHEET 9 OF 9.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
3. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.



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SHEET 8 OF 9

SCHEDULE # 1

MAXIMUM SINGLE UNIT FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING AND MOUNTING TYPE

A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CASE #	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)		
		W/O SIDE BRACKET	W/ SIDE BRACKET	MINIMUM SEPARATION TO GLASS (IN)
CASES I & II +56.0 , -63.0	42"	52"	N/A	3 1/8"
CASES I & II +75.0 , -100.0	42"	N/A	96"	2 1/8"

SCHEDULE # 1A

MAXIMUM MULTIPLE UNIT FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING AND MOUNTING TYPE

A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CASE #	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)			
		W/O SIDE BRACKET	W/ SIDE BRACKET	INTERIOR MULLION TYPE REQUIRED	MINIMUM SEPARATION TO GLASS (IN)
CASE I +50.0 , -43.3	36 1/2"	72 1/2"	N/A	A1	2 1/2"
CASE I +62.0 , -75.0	36 1/2"	N/A	83"	A2	2 3/8"
CASE II +62.0 , -75.0	36 1/2"	N/A	84"	A2	2 3/8"

SCHEDULE # 2

LIMITATIONS FOR SINGLE AND MULTIPLE UNITS BAHAMA SHUTTER'S UNIT WIDTH (IN), SPAN L (IN) AND CORRESPONDING MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) FOR THE INSTALLATION OF SIDE & SILL BRACKETS INTO CONCRETE & MASONRY BUILDINGS BY MEANS OF (3) 1/4" Ø ELCO FEMALE PANEL MATE ANCHORS *

MAXIMUM NEGATIVE A.S.D. DESIGN PRESSURE RATING (p.s.f.)	SINGLE UNITS				MULTIPLE UNITS			
	W/ SIDE & SILL BRACKETS **				W/ SIDE & SILL BRACKETS **			
	TO CONCRETE		TO BLOCK		TO CONCRETE		TO BLOCK	
	Max. "W"	Max. "L"	Max. "W"	Max. "L"	Max. "W"	Max. "L"	Max. "W"	Max. "L"
-55.7	42"	96"	42"	96"	36 1/2"	84"	36"	75"
-65.0	42"	96"	42"	96"	36 1/2"	84"	36"	65"
-75.0	42"	96"	42"	96"	36 1/2"	83"	28"	55"
-83.0	42"	96"	42"	87"	N/A	N/A	36 1/2"	62"
-100.0	42"	96"	42"	63"	N/A	N/A	24"	83"
			36"	73"			N/A	N/A

SCHEDULE # 3

MAXIMUM ANCHOR SPACING AT TOP FEMALE HINGES (B) , (C) , OR (D) AS WELL AS SILL ANGLE (A) AT BOTTOM (AS APPLICABLE) FOR INSTALLATIONS INTO POURED CONCRETE HEADERS AND SILL ***

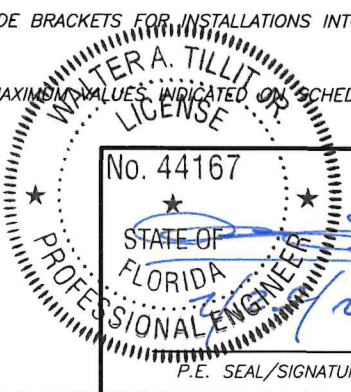
A.S.D. DESIGN PRESSURE RATING (p. s. f.)	SINGLE & MULTIPLE UNITS
	TOP & BOTTOM TO CONCRETE
ALL PRESSURES COVERED IN SCHEDULE # 1 & # 1A	9" O.C. TOP & 7" O.C. BOTTOM.

*** SEE SHEETS 7 & 8 OF 9 FOR ANCHOR SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

* FOR ELCO PANELMATES ((3) 1/4" Ø W/ 1 7/8" PENETRATION) OR 1/4" Ø SS ALL THREADED RODS USED AT SILL & SIDE BRACKETS FOR INSTALLATIONS INTO WOOD. SEE SCHEDULES # 1 & # 1A FOR SHUTTER SIZE.

** IN ANY CASE, MAXIMUM "W" & "L" VALUES W/ CORRESPONDING A.S.D. DESIGN PRESSURE RATING SHALL NOT EXCEED MAXIMUM VALUES INDICATED ON SCHEDULES # 1 & 1A.

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SHEET 9 OF 9