

GENERAL NOTES:

1. BAHAMA/COLONIAL SHUTTER SYSTEMS SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2023** (8th EDITION) OF THE FLORIDA BUILDING CODE. THESE SHUTTER SYSTEMS MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z.) AND OUT OF THEM (N.H.V.H.Z.).
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620 (HVHZ) & 1609 (NHVHZ)** OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT TO 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 RATING INDICATED ON SHEET 17.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESING 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 W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 17.**
- IN ORDER TO VERIFY THAT COMPONENTS & 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. A DURATION FACTOR $CD = 1.60$ WAS USED FOR VERIFICATION OF FASTENERS IN WOOD, PER N.D.S 2018.
- PRODUCT'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS **1626 & 1609.1.2** OF THE ABOVE MENTIONED CODE AS PER TESTING PERFORMED AT FENESTRATION TESTING LAB., REPORT # 3846, 3849, 3852 (BAHAMA SHUTTER) AND 3838, 3842, & 3844 (COLONIAL SHUTTER), AS PER PROTOCOLS TAS-201, TAS-202 AND TAS-203, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION **1616 & 1604** OF THE FLORIDA BUILDING CODE.
2. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y = 35.0$ ksi MINIMUM FOR FRAME MEMBERS INCLUDING RODS AND $F_y = 25.0$ ksi FOR ALL OTHER COMPONENTS (UNLESS OTHERWISE NOTED). THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING WITH STANDARD TOLERANCES IN ACCORDANCE WITH THE "ALUMINUM STANDARDS AND DATA", ALUMINUM ASSOCIATION INCORPORATED, WASHINGTON D.C.
3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH AND SHALL COMPLY W/ FBC SECTION 2411.3.3.4.
4. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL WITH **35 ksi** MINIMUM YIELD STRENGTH.
6. ALL WELDING OF ALUMINUM MEMBERS TO CONFORM WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 REGULATIONS. USE E-5556 OR 5356 ELECTRODES. USE CERTIFIED WELDERS.
7. ANCHORS TO WALL SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

- (A) TO EXISTING POURED CONCRETE: ($f'_c = 3320$ psi Min.)
- 1/4"Ø ULTRACON ANCHORS MANUFACTURED BY DEWALT.
 - 1/4"Øx7/8" CALK-IN ANCHORS MANUFACTURED BY DEWALT.
 - 1/4"Øx7/8" ELCO male & female PANELMATE MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

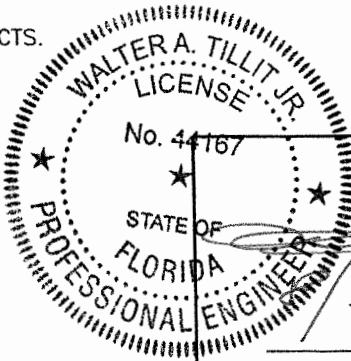
- (A.1) MINIMUM EMBEDMENT OF ULTRACON ANCHORS AND ELCO PANELMATE INTO POURED CONCRETE IS 1 3/4".
- (A.2) CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXISTS AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- (A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON EXISTING WALL, 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 (ASTM C-90) BLOCK WALL:
- 1/4"Ø ULTRACON ANCHORS MANUFACTURED BY DEWALT.
 - 1/4"Øx7/8" CALK-IN ANCHORS MANUFACTURED BY DEWALT.
 - 1/4"Øx7/8" ELCO male & female PANELMATE MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

- (B.1) MINIMUM EMBEDMENT OF ULTRACON ANCHORS IS 1" & FOR ELCO PANELMATE INTO CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- (B.2) CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXISTS AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- (B.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON 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.
8. SHUTTER MAY REMAIN OPEN FOR NON HURRICANE CONDITIONS CORRESPONDING TO A MAXIMUM SUSTAINED WIND SPEED OF 74 MPH, AS DESIGNATED BY THE NATIONAL HURRICANE CENTER OR U.S. WEATHER BUREAU. SHUTTER MUST BE CLOSED, HURRICANE POSITION, WHEN WIND SPEED EXCEEDS 74 MPH. OWNER TO BE RESPONSIBLE FOR PROVIDING A SUITABLE PLATFORM OR BALCONY WHEN SECURING SHUTTERS DURING HURRICANE WARNINGS.
9. BAHAMA/COLONIAL SHUTTER'S SECURE PASS THROUGH ROD-BLADE ANCHOR SYSTEM IS **PATENT PENDING**.
10. 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.
11. CONTRACTOR TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.
12. OWNER TO BE RESPONSIBLE FOR PROVIDING A SUITABLE PLATFORM OR BALCONY WHEN SECURING UNIT DURING HURRICANE WARNINGS.
13. BAHAMA/COLONIAL SHUTTER INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
14. (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) 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 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) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
15. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT STORM PANEL SHUTTER 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.

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



P.E. SEAL/SIGNATURE/DATE

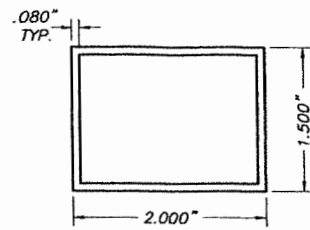
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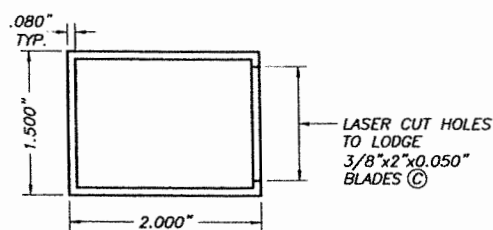
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (H.V.H.Z. & N.H.V.H.Z.)

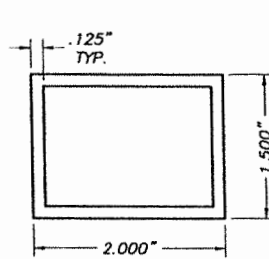
COMBINATION DRAWING:					
BAHAMA SHUTTER (SHEETS 4 THRU 8 OF 17)					
COLONIAL SHUTTER (SHEETS 9 THRU 14 OF 17)					
BAHAMA/COLONIAL (COMMON SHEETS 1, 2, 3, 15, 16 & 17)					
BAHAMA / COLONIAL SHUTTER					W.H DRAWN BY
ALUCORE LLC. 24550 SW 193 AVE HOMESTEAD, FL 33031 Phone : (305) 330-5511					11/30/2017 DATE
					24-094 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		
					SHEET 1 OF 17



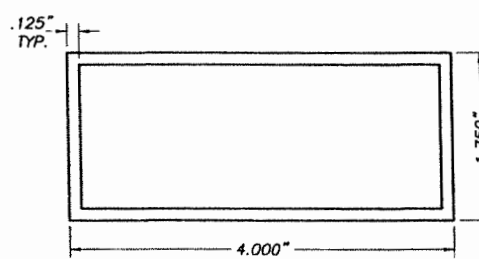
(A) HORIZONTAL FRAME
ALUMINUM EXTRUSION



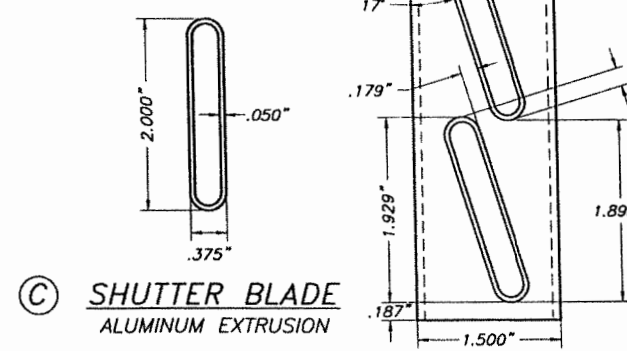
(A1) SIDE FRAME
ALUMINUM EXTRUSION



(A2) MULLION
ALUMINUM EXTRUSION

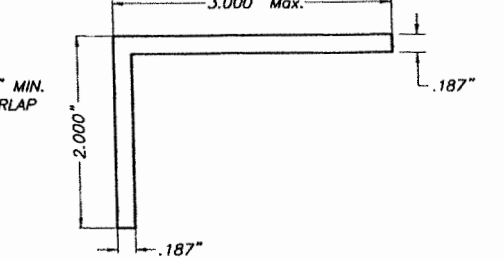


(B) CORNER INSERT
ALUMINUM EXTRUSION

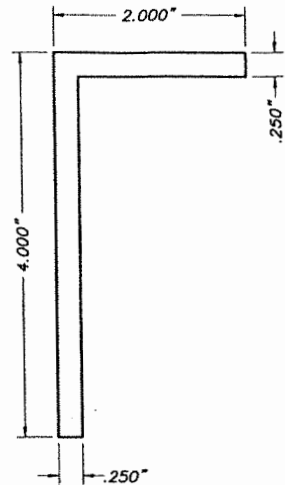


(C) SHUTTER BLADE
ALUMINUM EXTRUSION

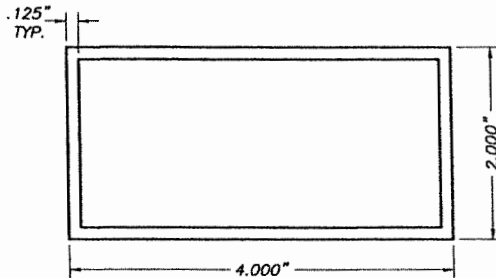
SHUTTER TYPE	INCLINATION/ HORIZONTAL	Max. SPACING O.C.
BAHAMA	73°	1.895"
COLONIAL	73°	1.895"



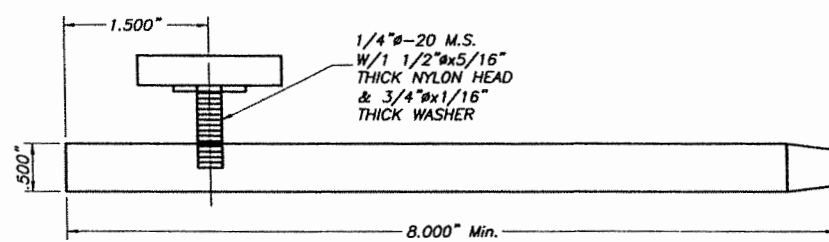
**(D) 1 1/4" Max. BUILD-OUT
EXTERIOR Alum. BRACKET**
7" LONG (ULTRACON) & 4" LONG (BALANCE OF ANCHORS)
ALUMINUM EXTRUSION



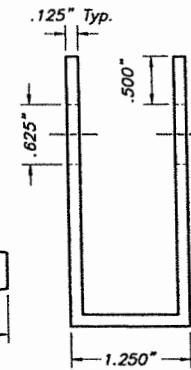
**(E) VERTICAL LOCK ROD
ALUM. BRACKET (8" LONG)**
ALUMINUM EXTRUSION



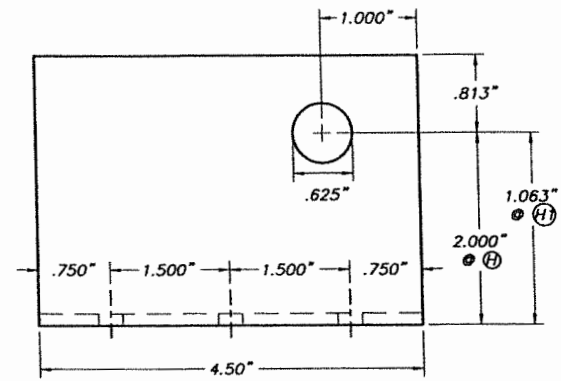
(F) STORM BAR
ALUMINUM EXTRUSION



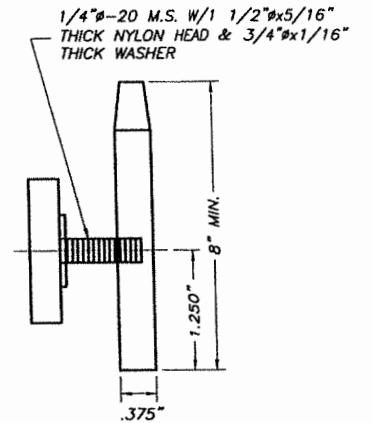
(G) HORIZONTAL LOCK ROD
ALUMINUM EXTRUSION



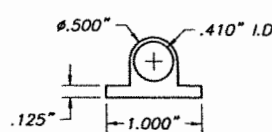
(H) 1" BOTTOM B.O. "U" BRACKET
(H1) FLUSH MOUNT "U" BRACKET
ALUMINUM EXTRUSION



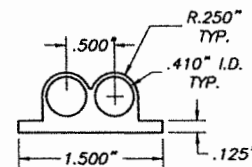
(I) VERTICAL LOCK ROD
ALUMINUM EXTRUSION



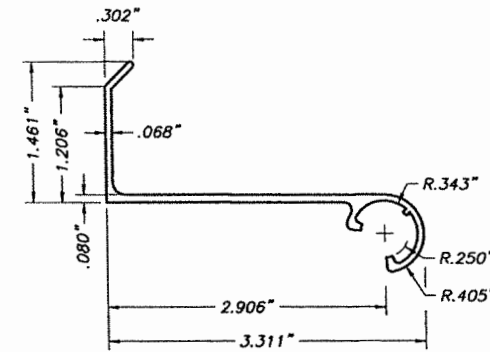
(J) SINGLE VERTICAL ROD CLAMP
(Cont, 8" Min.)
ALUMINUM EXTRUSIONS



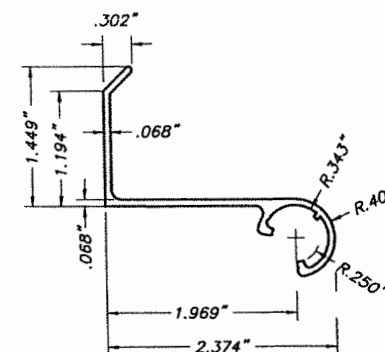
**(J1) OPTIONAL EXTRUDED
SINGLE VERTICAL ROD CLAMP**
(Cont, 8" Min.)
ALUMINUM EXTRUSION



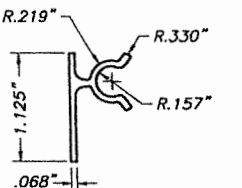
**(J2) EXTRUDED DOUBLE
VERTICAL ROD CLAMP**
(Cont, 8" Min.)
ALUMINUM EXTRUSION



(K) 1" B.O. FEMALE HINGE
ALUMINUM EXTRUSION

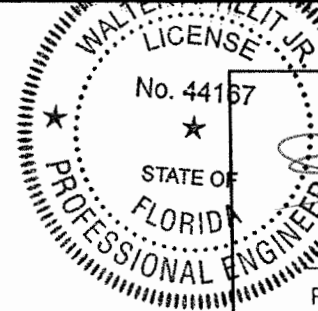


**(K1) FLUSH MOUNT
FEMALE HINGE**



(L) MALE HINGE
ALUMINUM EXTRUSION

COMPONENTS



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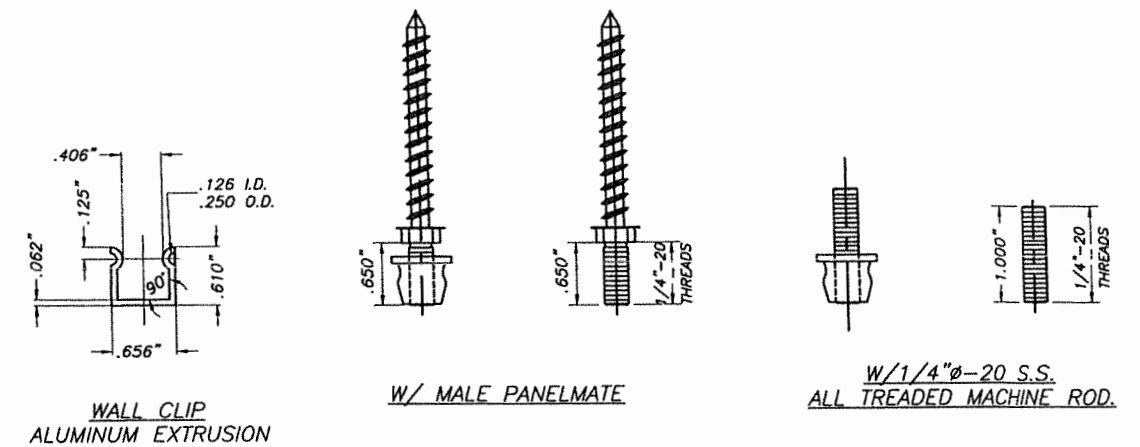
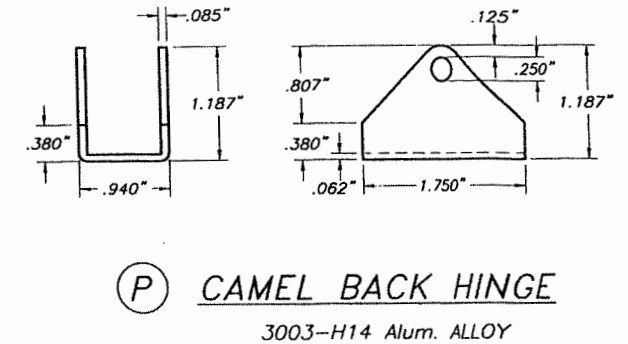
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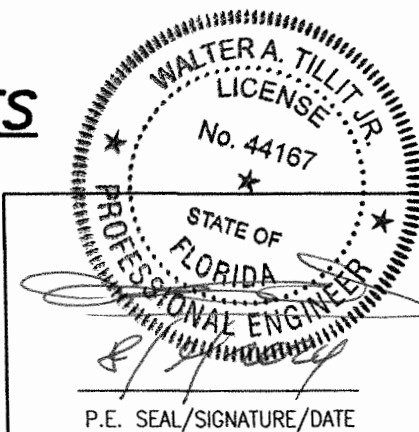
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WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (H.V.H.Z. & N.H.V.H.Z.)					
BAHAMA / COLONIAL SHUTTER				W.H DRAWN BY	
ALUCORE LLC.				11/30/2017 DATE	
24550 SW 193 AVE HOMESTEAD, FL 33031 Phone : (305) 330-5511				24-094 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		



Q1) ALTERNATE ALUMINUM "U" CHANNEL (1" LONG)
& 1/4"Ø ELCO TEXTRON MALE PANELMATE
ANCHOR OR W/ 1/4"Ø-20 S.S. MACHINE ROD

COMPONENTS



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BAHAMA / COLONIAL SHUTTER

W.H
DRAWN BY

ALUCORE LLC.

24550 SW 193 AVE

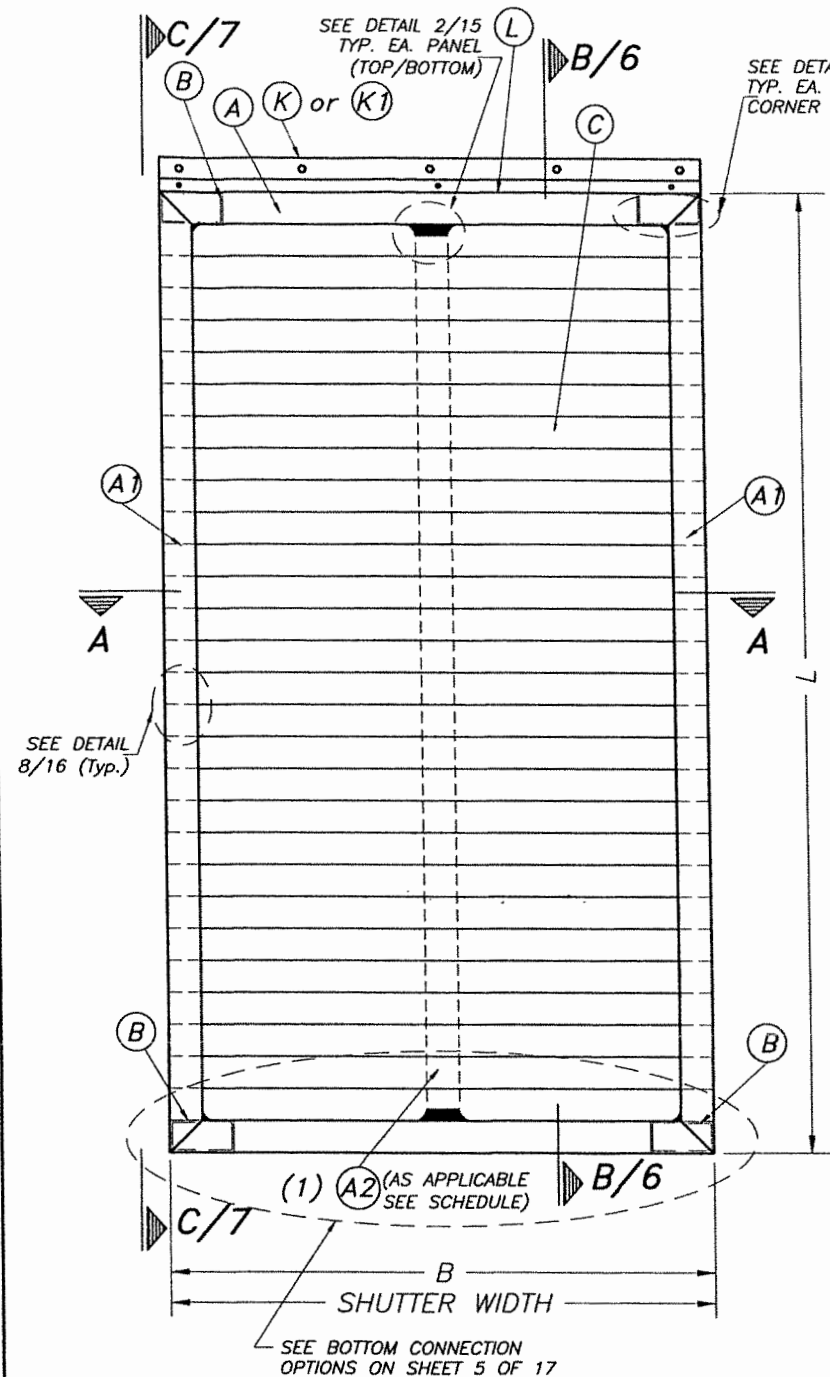
24550 SW 195 AVE
HOMESTEAD, FL 33031

Phone : (305) 330-5511

1/30/2017
DATE

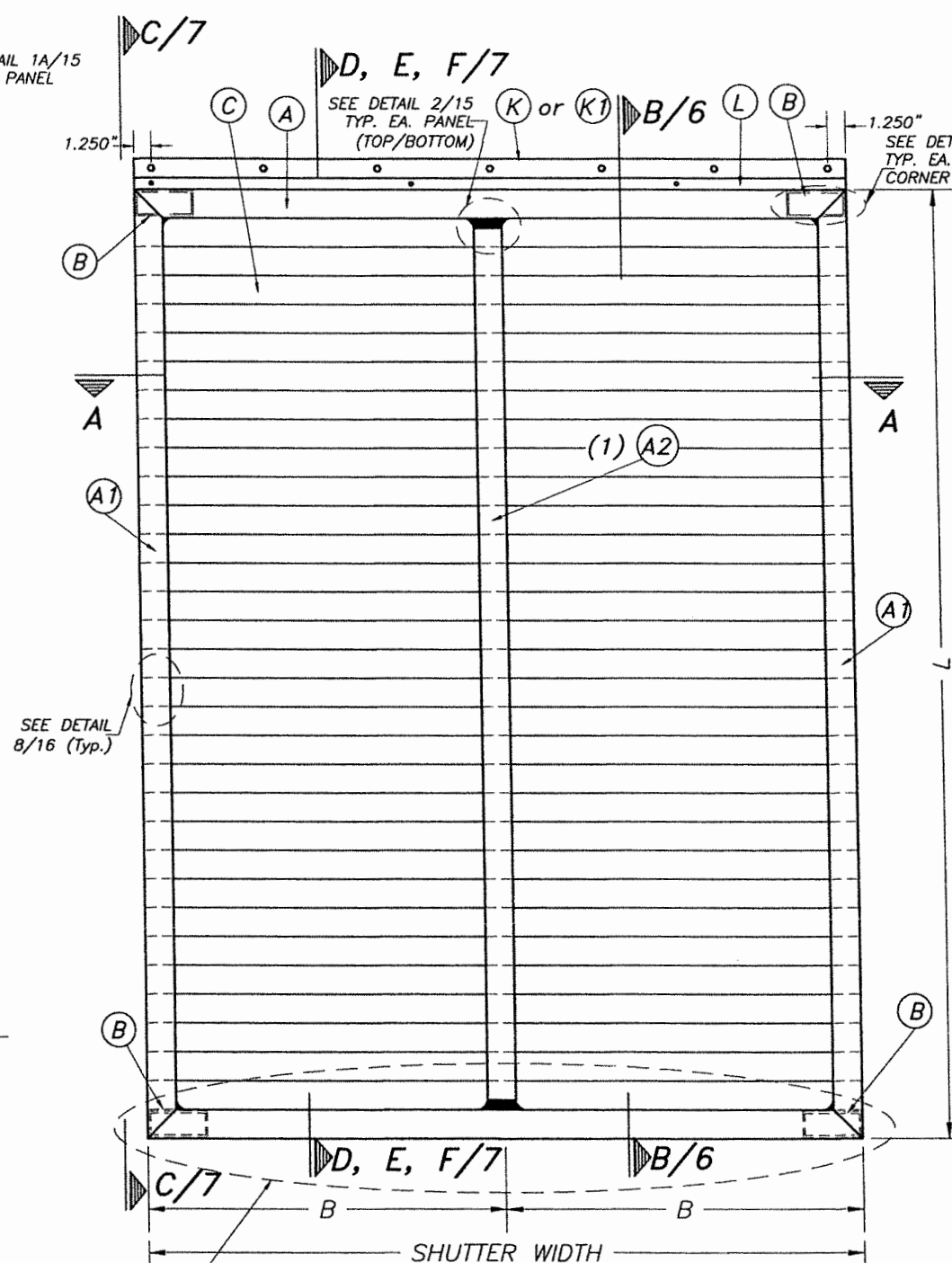
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DRAWING No

						DRAWING No
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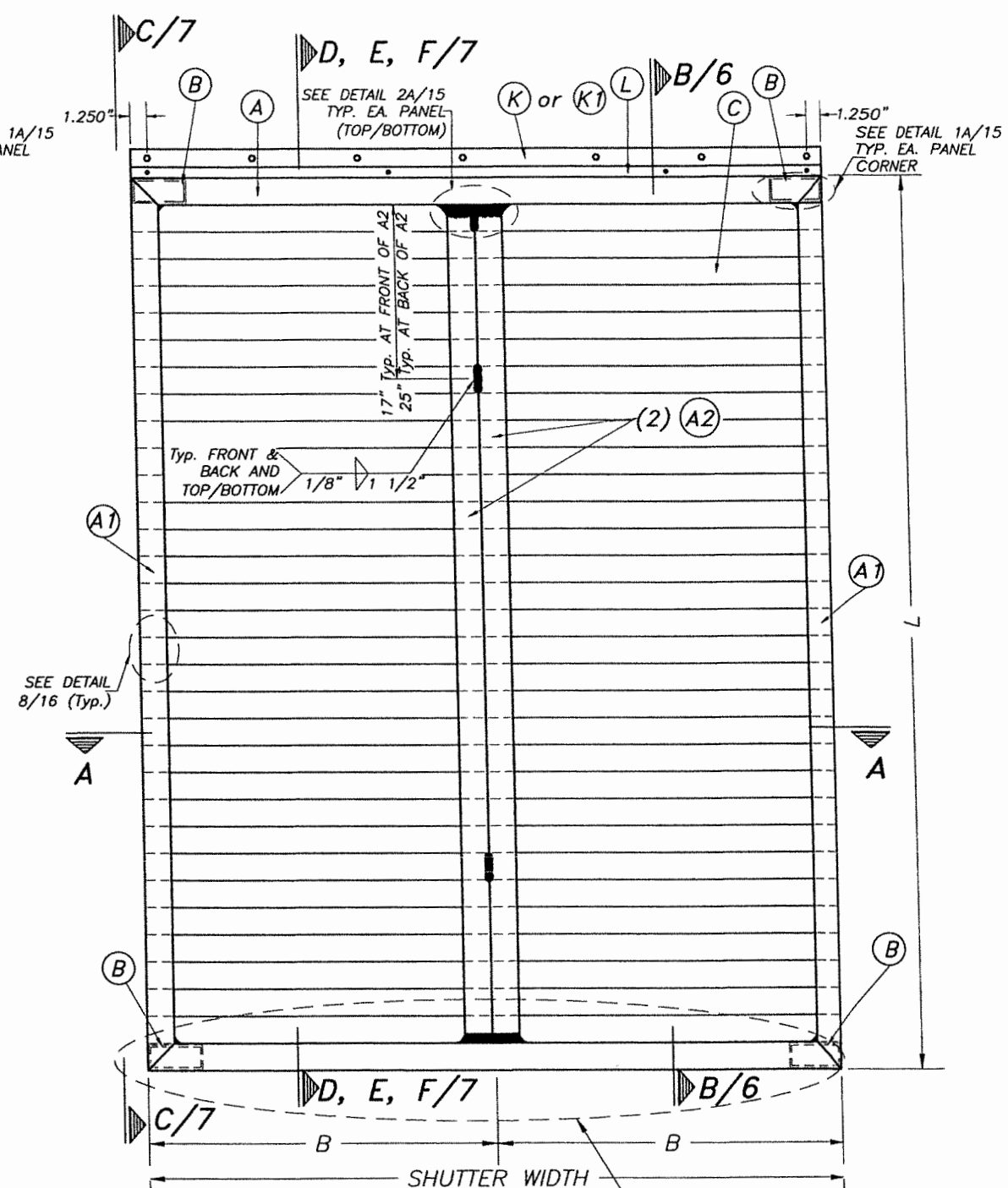


SINGLE PANEL

NOTE:
SEE SCHEDULE ON SHEET
17 OF 17 FOR MAXIMUM
PANEL WIDTH "B" AND
MAX. SHUTTER HEIGHT "L".

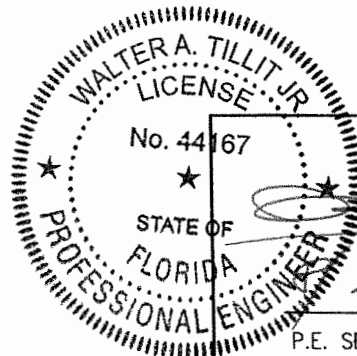


**MULTIPLE PANEL
W/ SINGLE MULLION**



**MULTIPLE PANEL
W/ DOUBLE MULLION**

ELEVATIONS



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BAHAMA / COLONIAL SHUTTER

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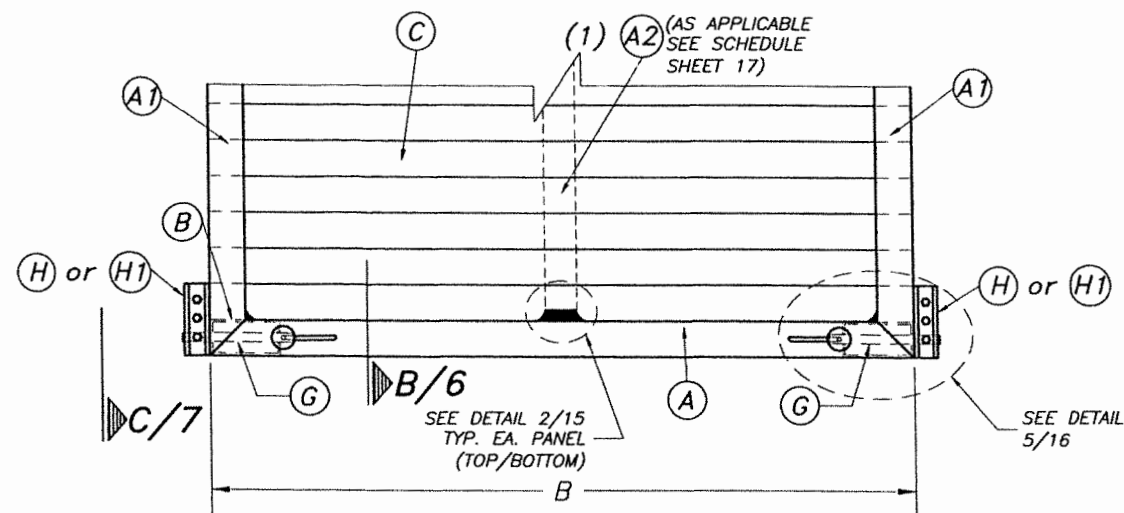
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DRAWN BY

11/30/2017
DATE

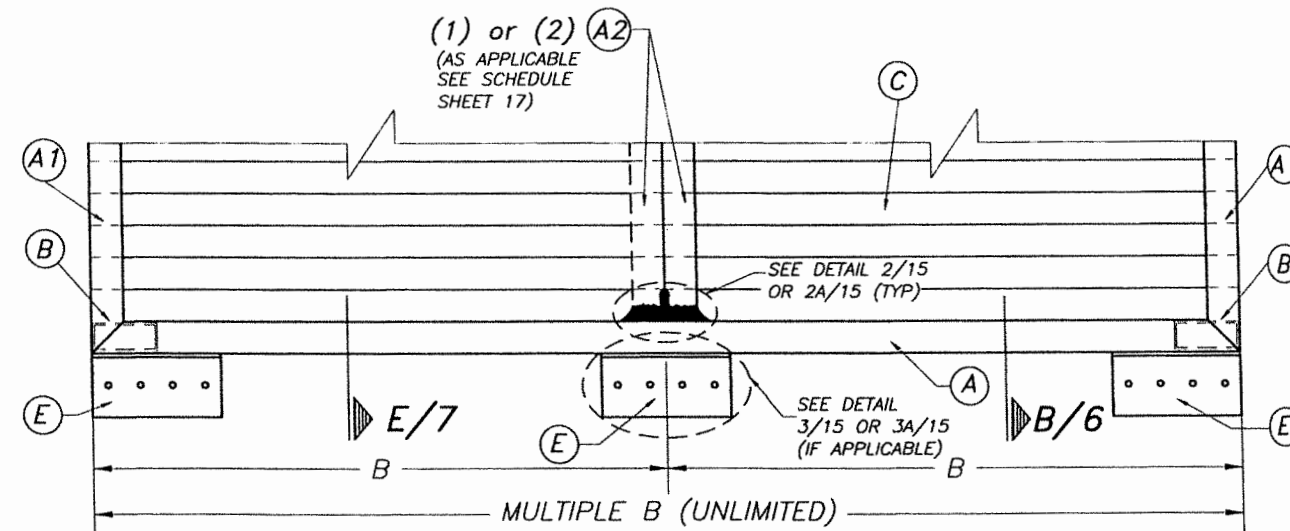
24-094
DRAWING No

SHEET 4 OF 17

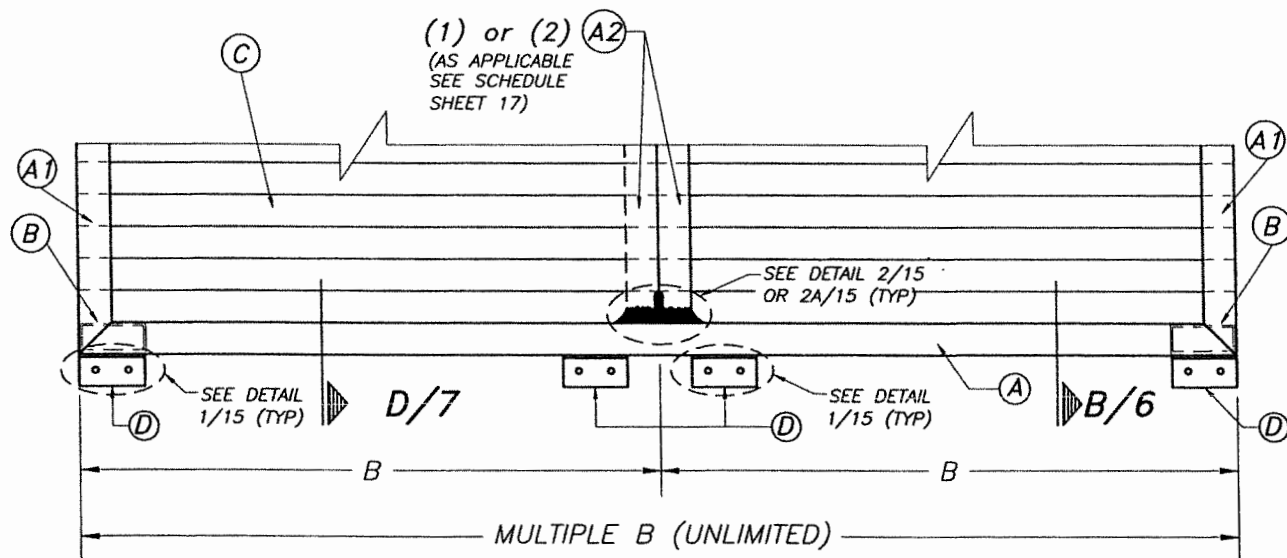
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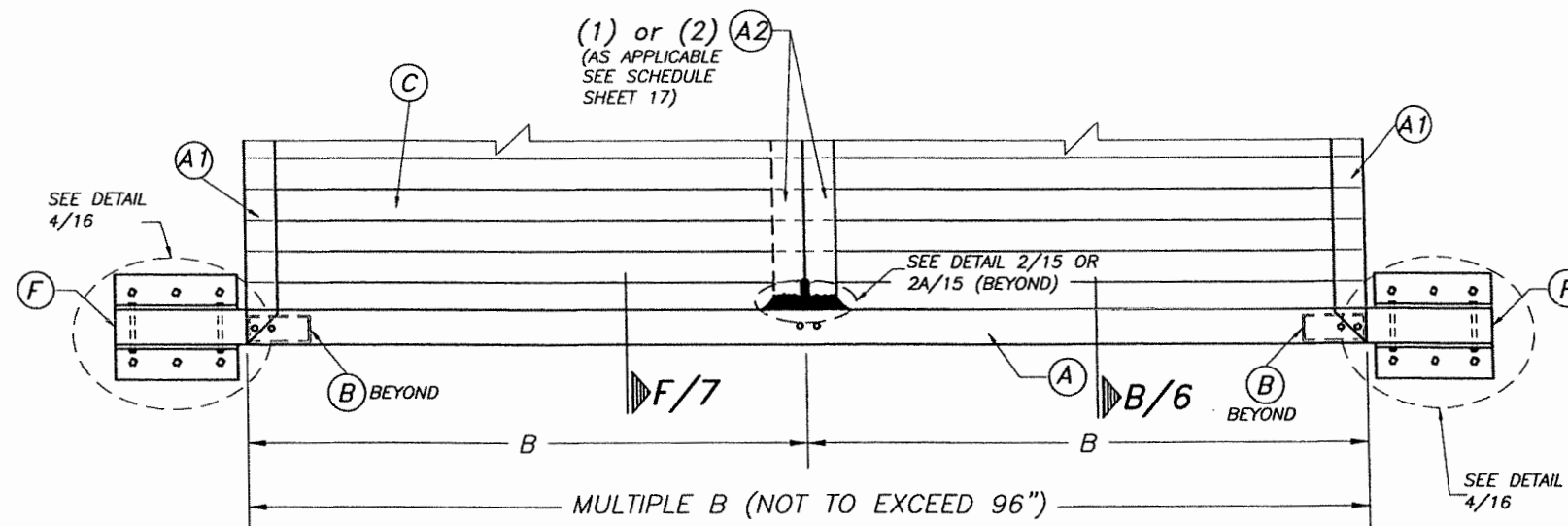
**SINGLE PANEL
W/ (H) BRACKET**



**MULTIPLE PANEL W/DOUBLE OR
SINGLE MULLION & (E) BRACKET**



**MULTIPLE PANEL W/DOUBLE OR
SINGLE MULLION & (D) BRACKETS**

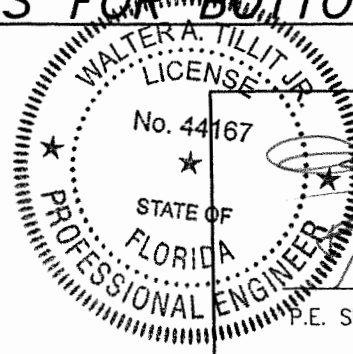


**MULTIPLE PANEL W/SINGLE OR DOUBLE MULLION
AND STORM BAR W/O BRACKETS**

NOTES:

1. TENANT JOINTLY W/ MANUFACTURER MUST SELECT BRACKET TYPE OR STORM BAR FOR CONNECTION TO WALL.
2. SEE SCHEDULE ON SHEET 17 OF 17 FOR MAXIMUM PANEL WIDTH "B" & REQM'T FOR (A2)

OPTIONS FOR BOTTOM CONNECTIONS (ELEVATIONS)



[Signature]
P.E. SEAL/SIGNATURE/DATE

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BAHAMA / COLONIAL SHUTTER					W.H DRAWN BY
ALUCORE LLC. 24550 SW 193 AVE HOMESTEAD, FL 33031 Phone : (305) 330-5511					11/30/2017 DATE
					24-094 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		

WALL MOUNT AT END AND INTERIOR BRACES SECTION B - B
OPEN POSITION
(74 m.p.h. MAX. WIND SPEED)

CONNECTION TO WOOD

ALTERNATE WALL MOUNT AT END BRACE SECTION B - B
OPEN POSITION

FLORIDA BUILDING CODE (H.V.H.Z. & N.H.V.H.Z.)

BAHAMA / COLONIAL SHUTTER

W.H
DRAWN BY

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Phone : (305) 330-5511

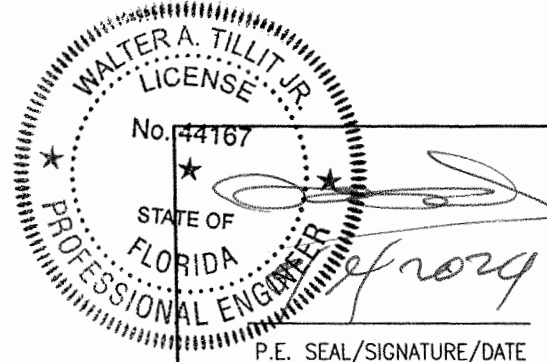
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DATE

4-094

DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		

DRAWING No
 SHEET 6 OF 1



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TILECO INC.

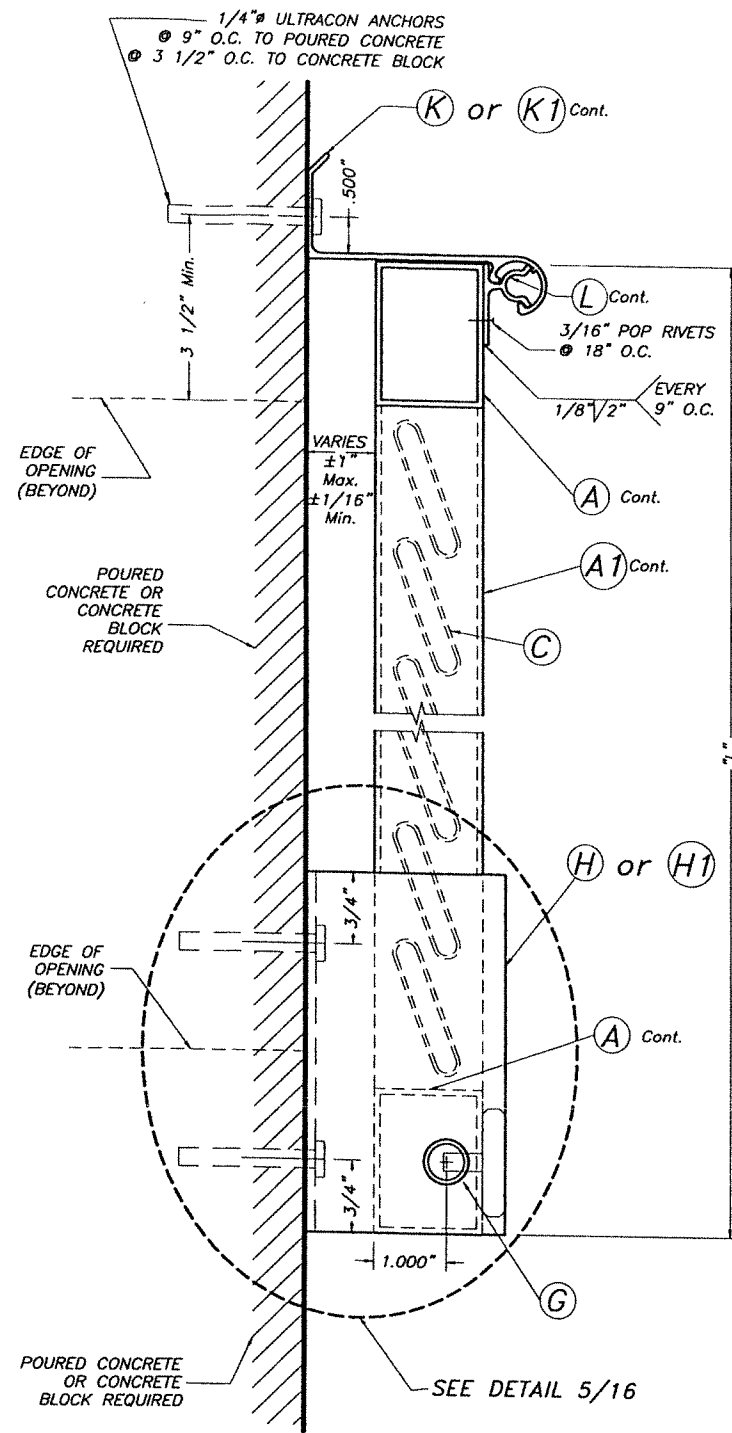
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Phone : (305) 871-1530 . Fax : (305) 871-1531

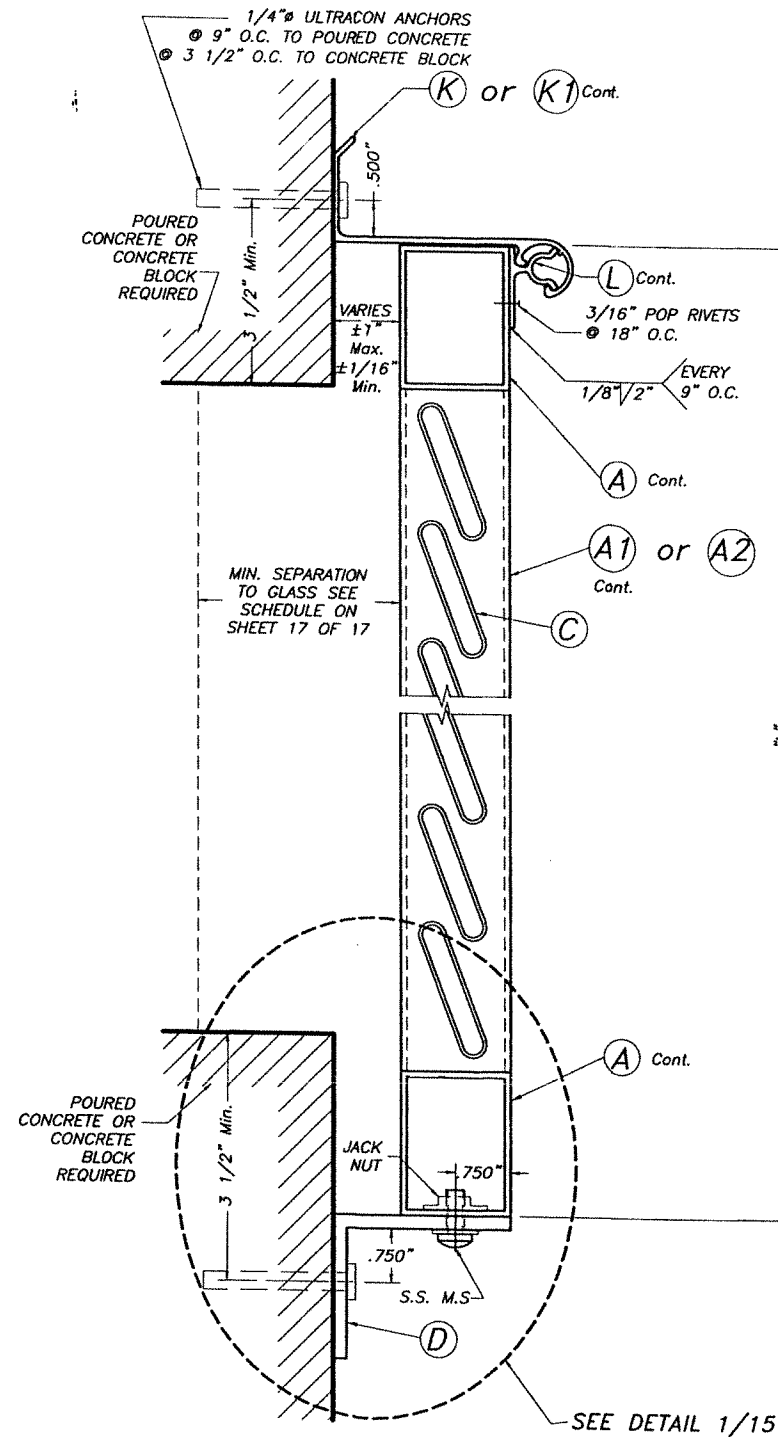
e-mail: tilteco@aol.com

FR-0006719

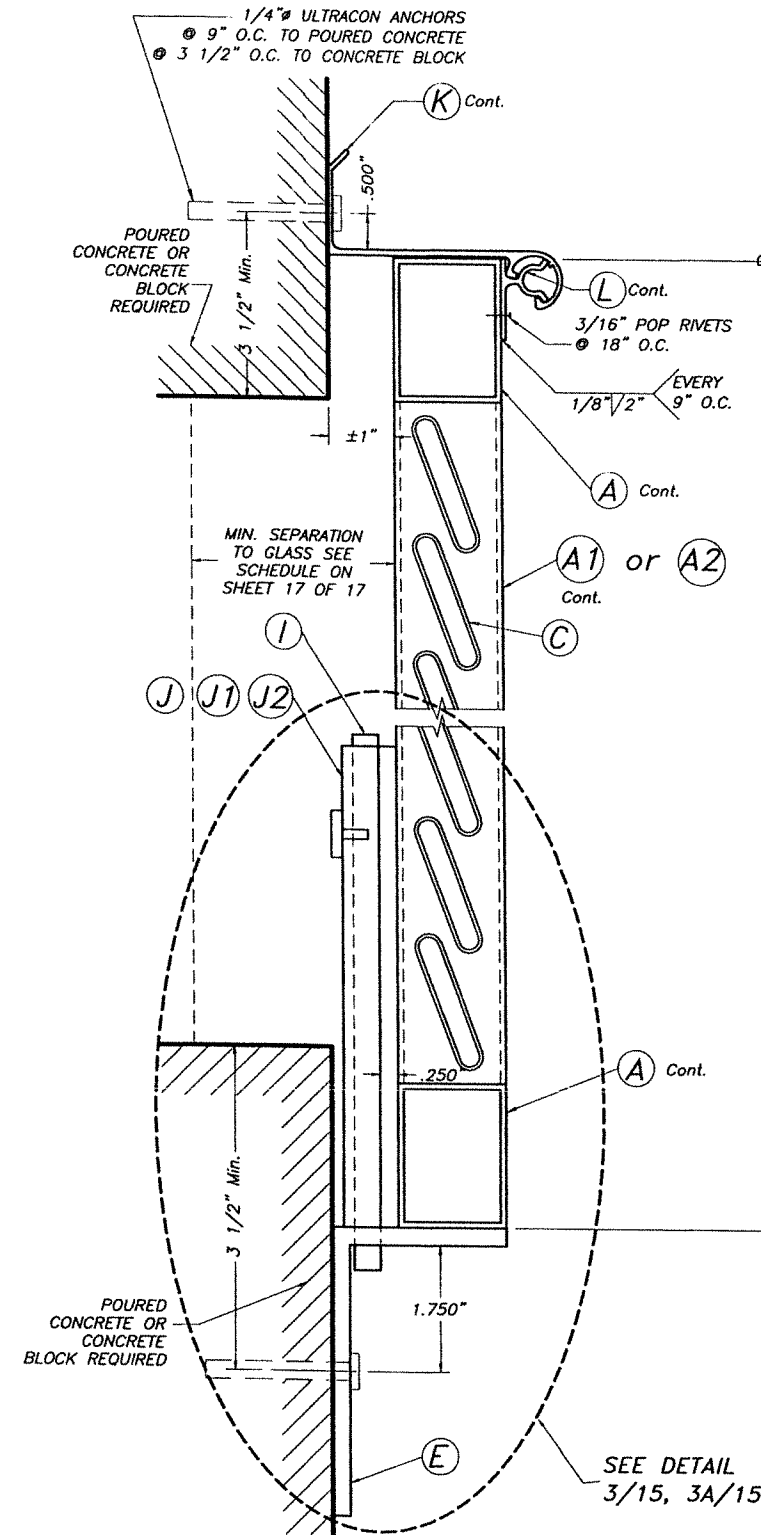
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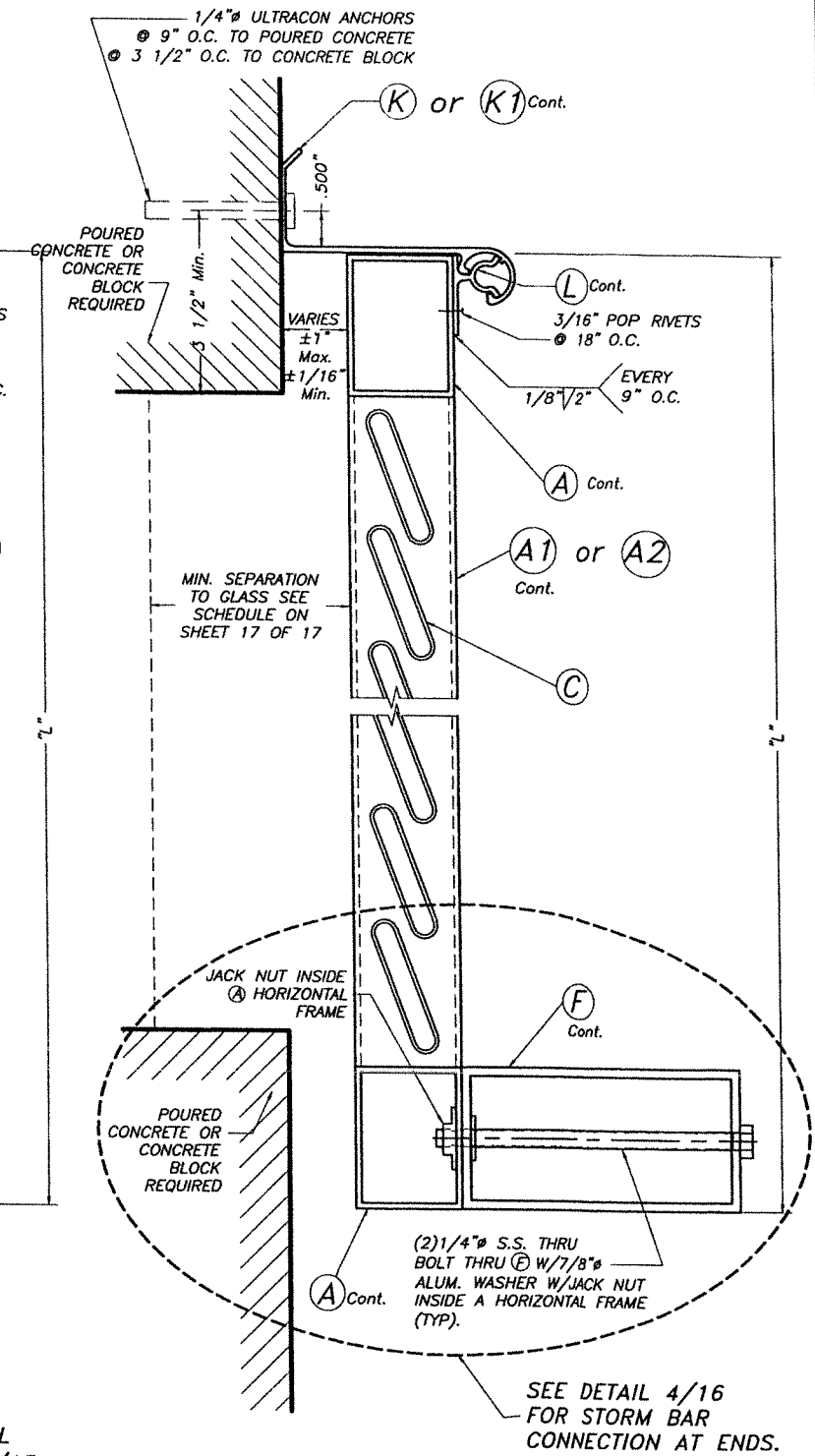
SECTION C - C
HURRICANE POSITION



SECTION D - D
HURRICANE POSITION



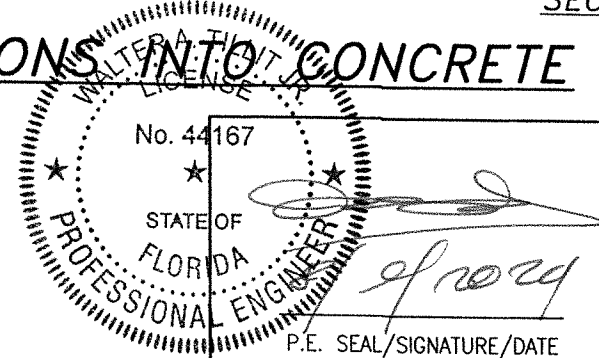
SECTION E - E (BUILD-OUT)
HURRICANE POSITION



SECTION F - F
HURRICANE POSITION

NOTE:
SEE SCHEDULE ON SHEET
17 OF 17 FOR MAXIMUM
SHUTTER HEIGHT "L".

INSTALLATIONS INTO CONCRETE



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BAHAMA / COLONIAL SHUTTER

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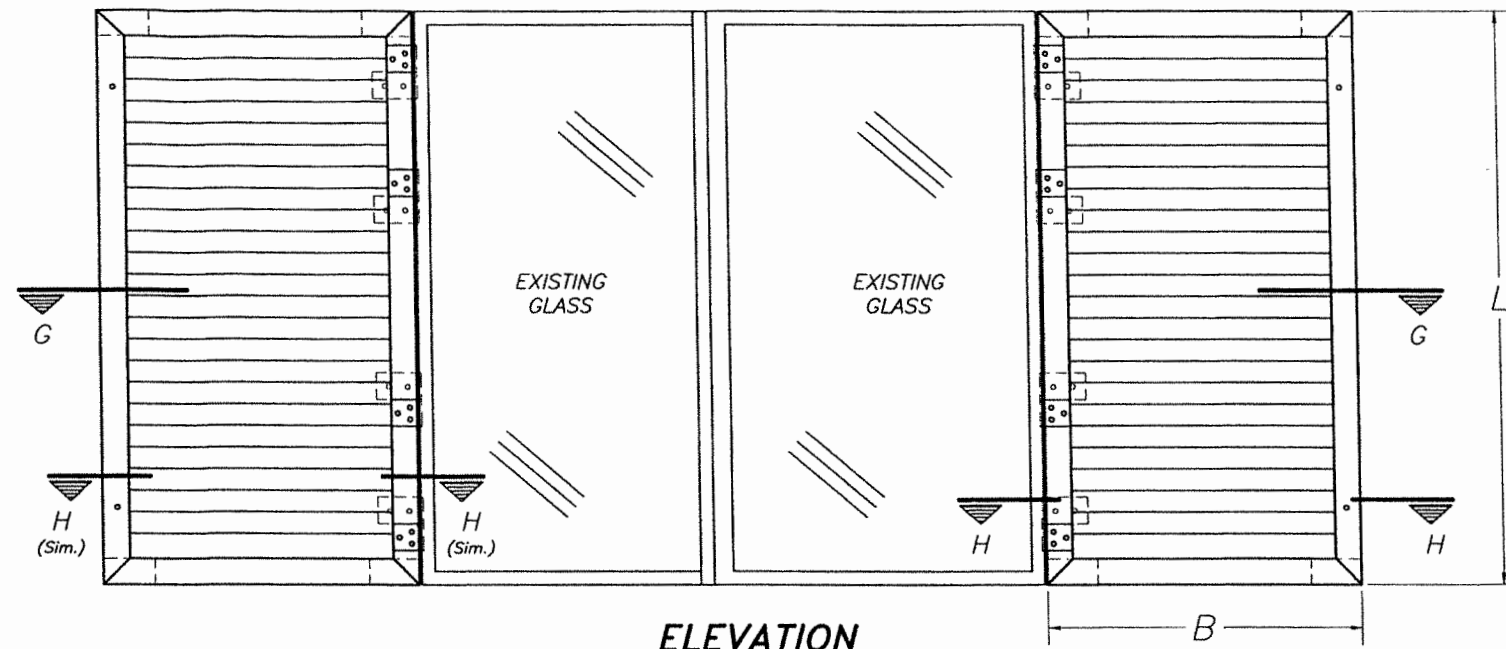
24550 SW 193 AVE
HOMESTEAD, FL 33031
Phone : (305) 330-5511

11/30/2017
DATE

24-094
DRAWING No

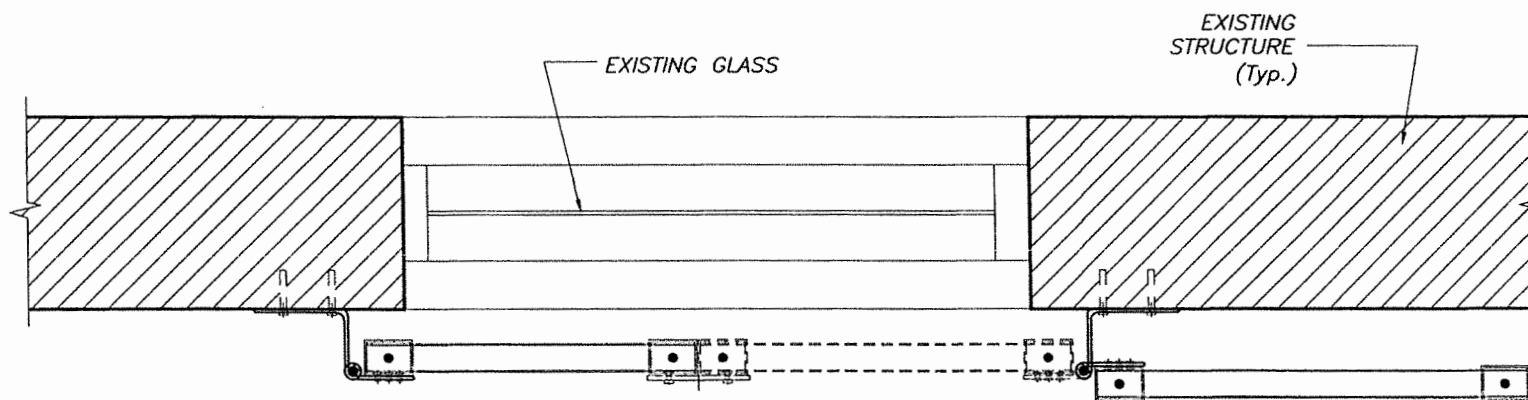
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2			4		

SHEET 7 OF 17



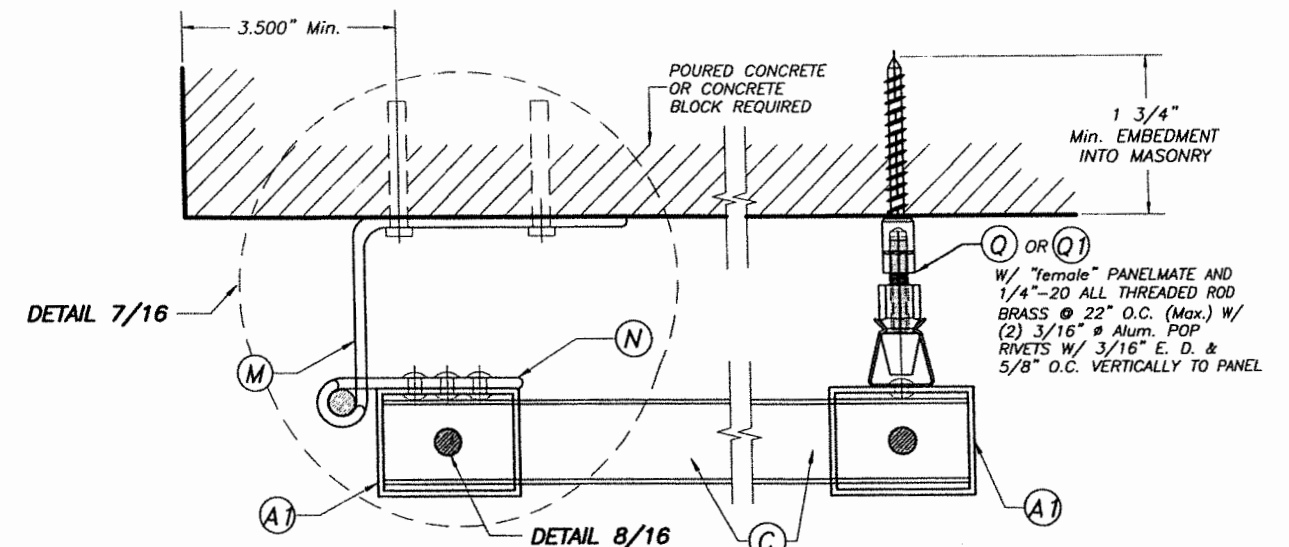
ELEVATION

N. T. S.



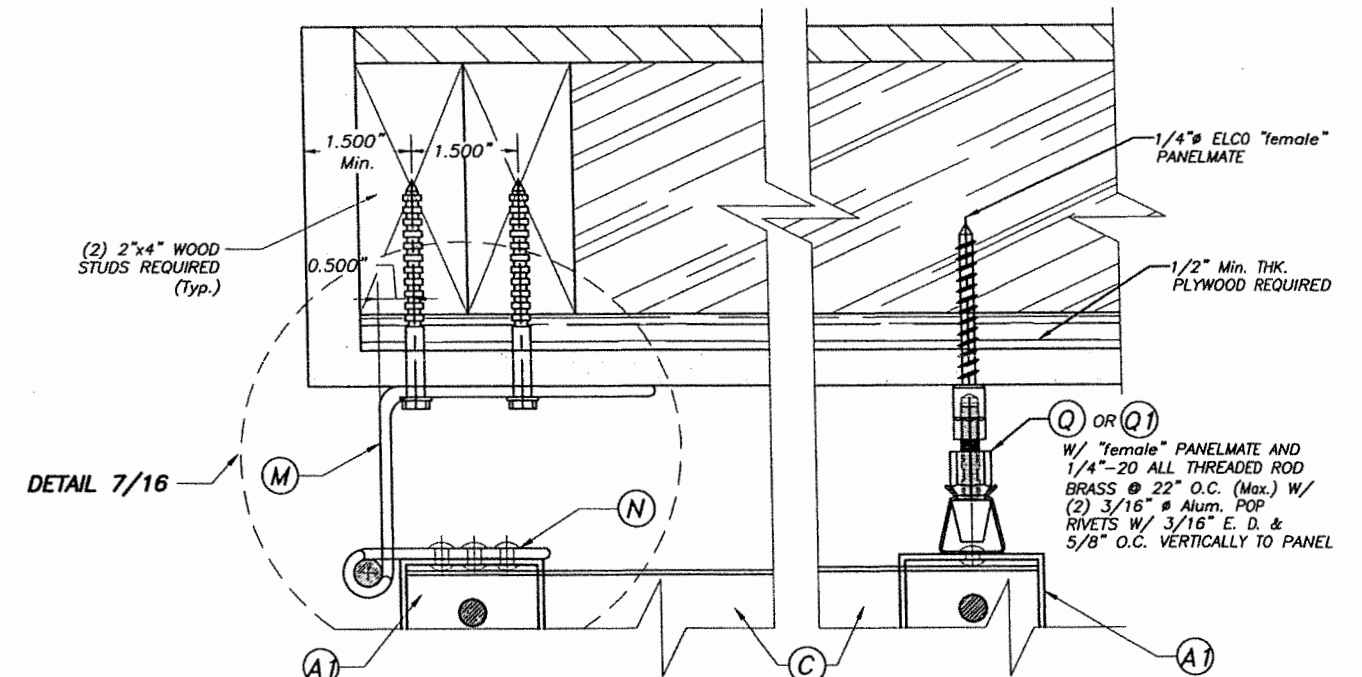
SECTION G - G

N. T. S.



SECTION H - H: TO POURED CONCRETE OR CONCRETE BLOCK WALL

SCALE : 3/8" = 1"

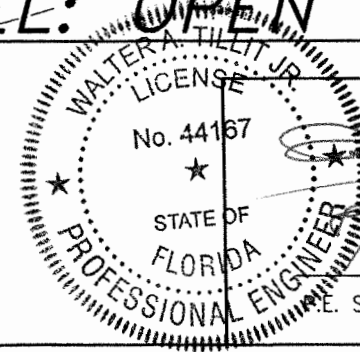


SECTION H - H: TO WOOD

SCALE : 3/8" = 1"

DOUBLE PANEL: OPEN POSITION (74 m.p.h. MAX. WIND SPEED)

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Walter A. Tillit Jr.
SEAL/SIGNATURE/DATE

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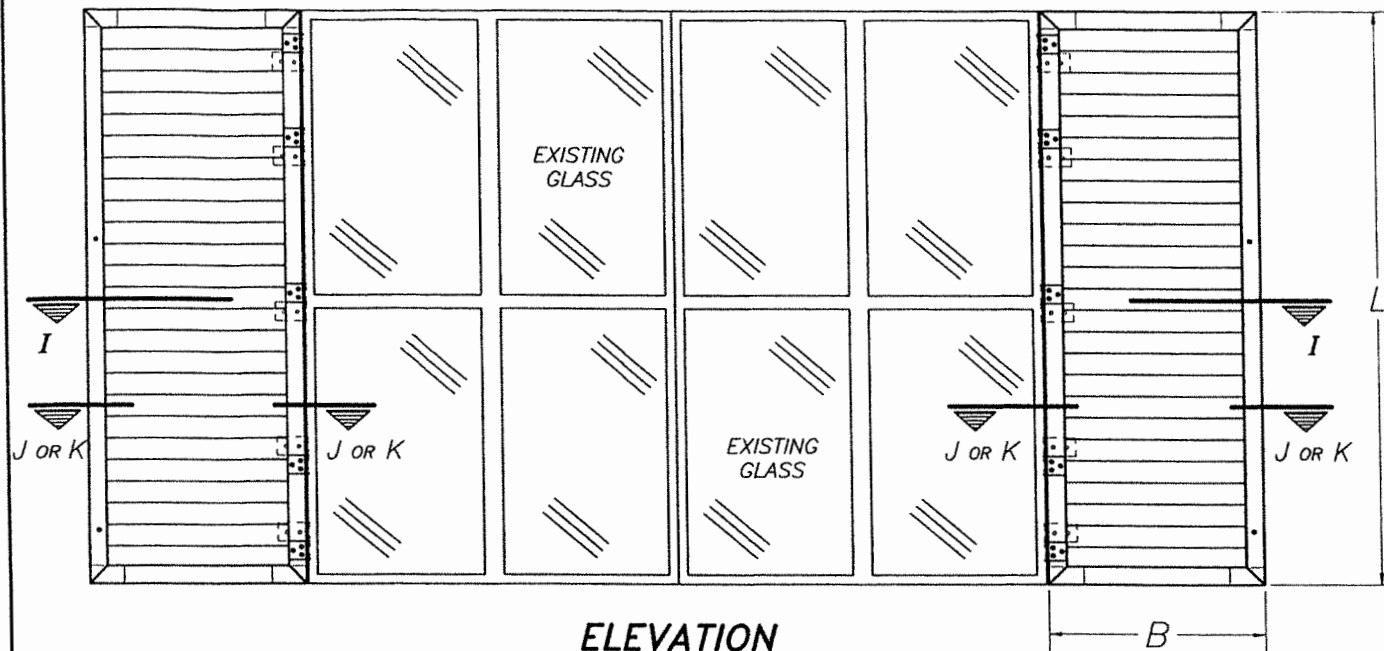
BAHAMA / COLONIAL SHUTTER					
ALUCORE LLC.					
24550 SW 193 AVE HOMESTEAD, FL 33031 Phone : (305) 330-5511					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		

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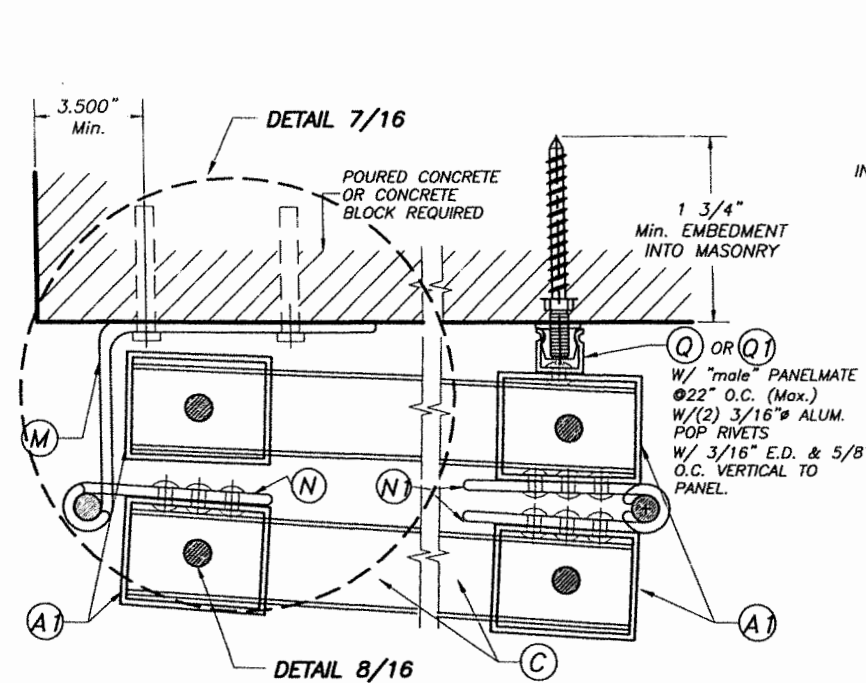
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DRAWING No

SHEET 9 OF 17

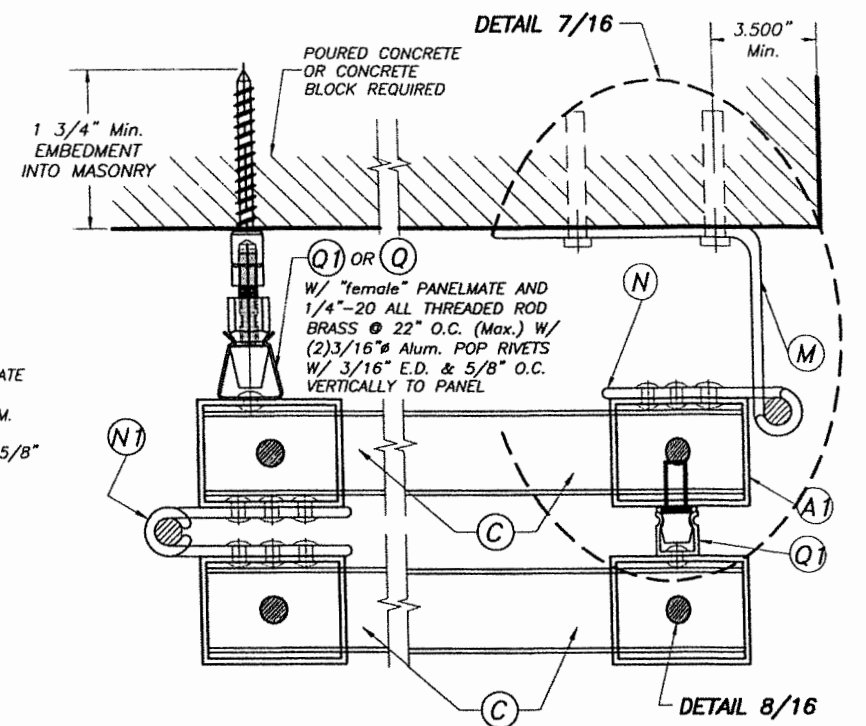


ELEVATION
N. T. S.



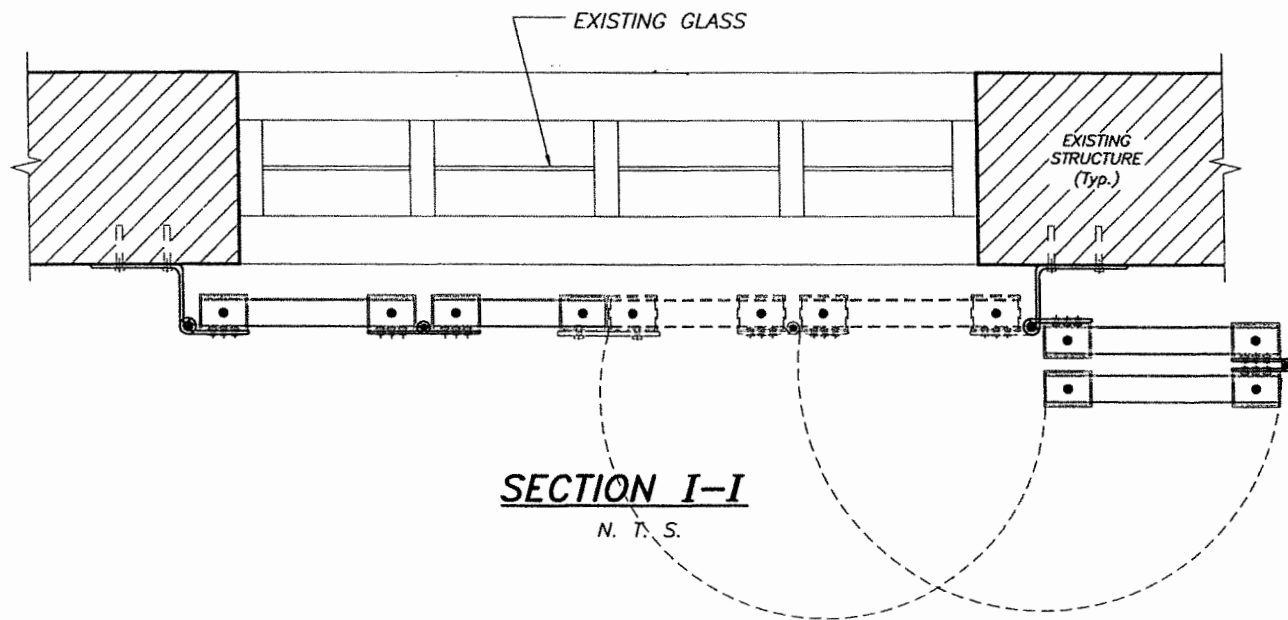
**SECTION J - J: TO POURED CONCRETE
OR CONCRETE BLOCK WALL**

SCALE : 3/8" = 1"

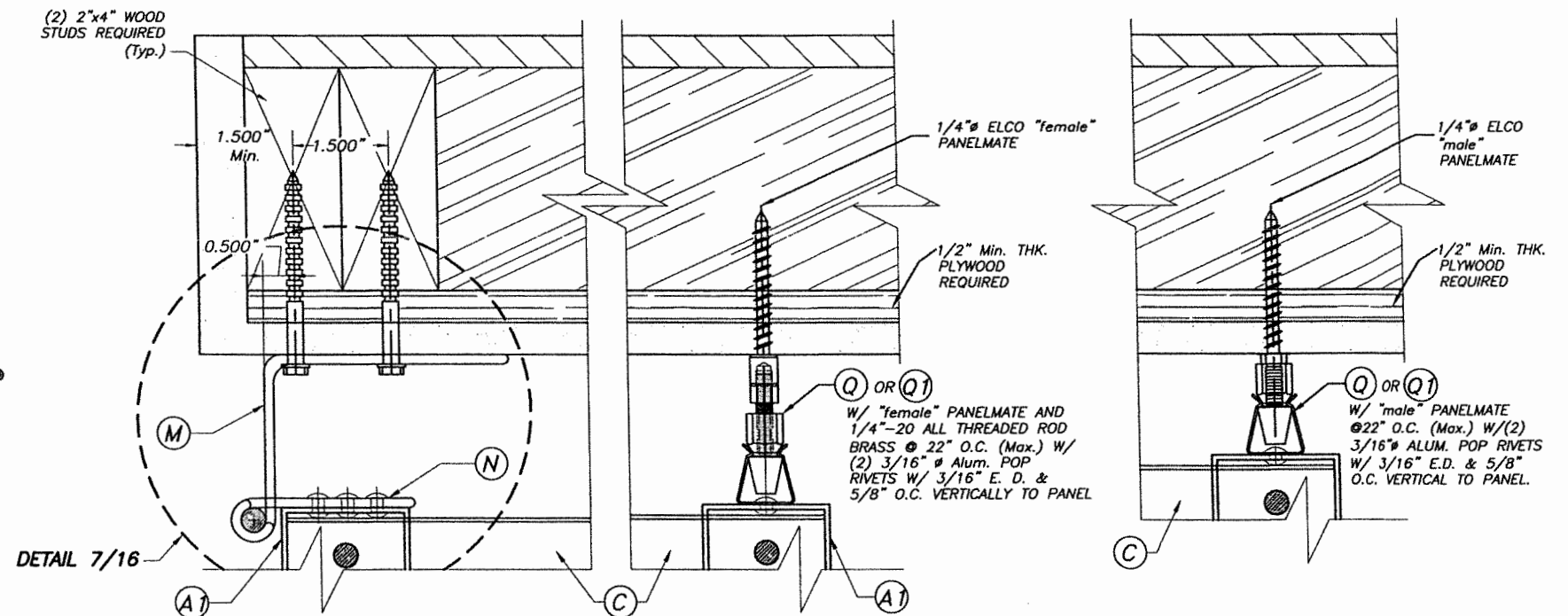


**SECTION K - K: TO POURED CONCRETE
OR CONCRETE BLOCK WALL**

SCALE : 3/8" = 1"



SECTION I-I
N. T. S.

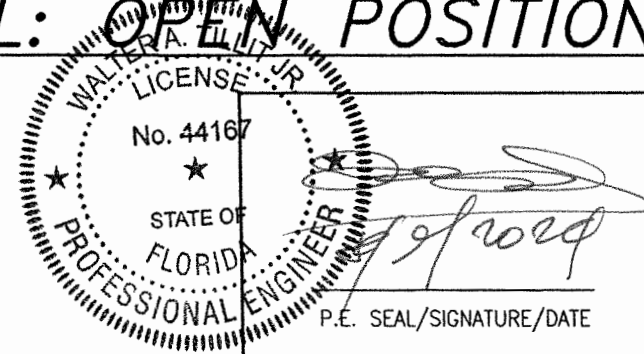


SECTION J - J AND SECTION K - K: TO WOOD

SCALE : 3/8" = 1"

QUADRUPLE PANEL: OPEN POSITION (74 m.p.h. MAX. WIND SPEED)

FLORIDA BUILDING CODE (H.V.H.Z. & N.H.V.H.Z.)

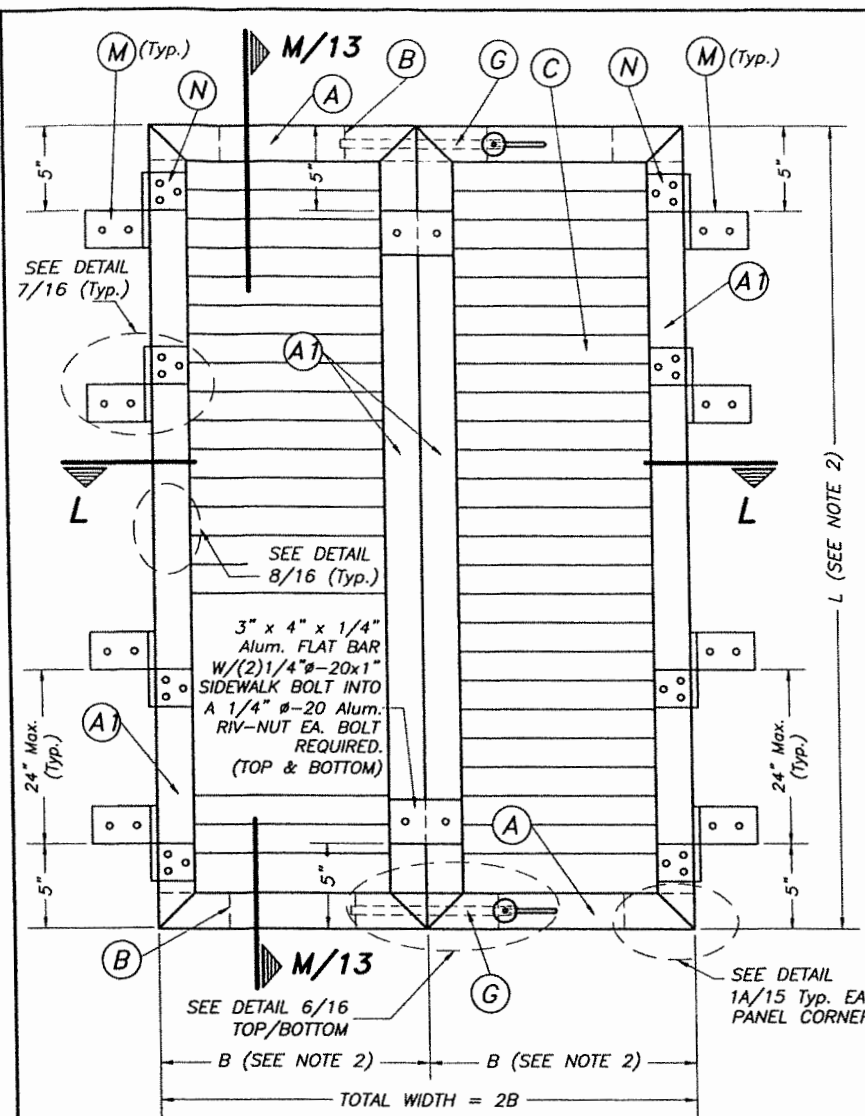


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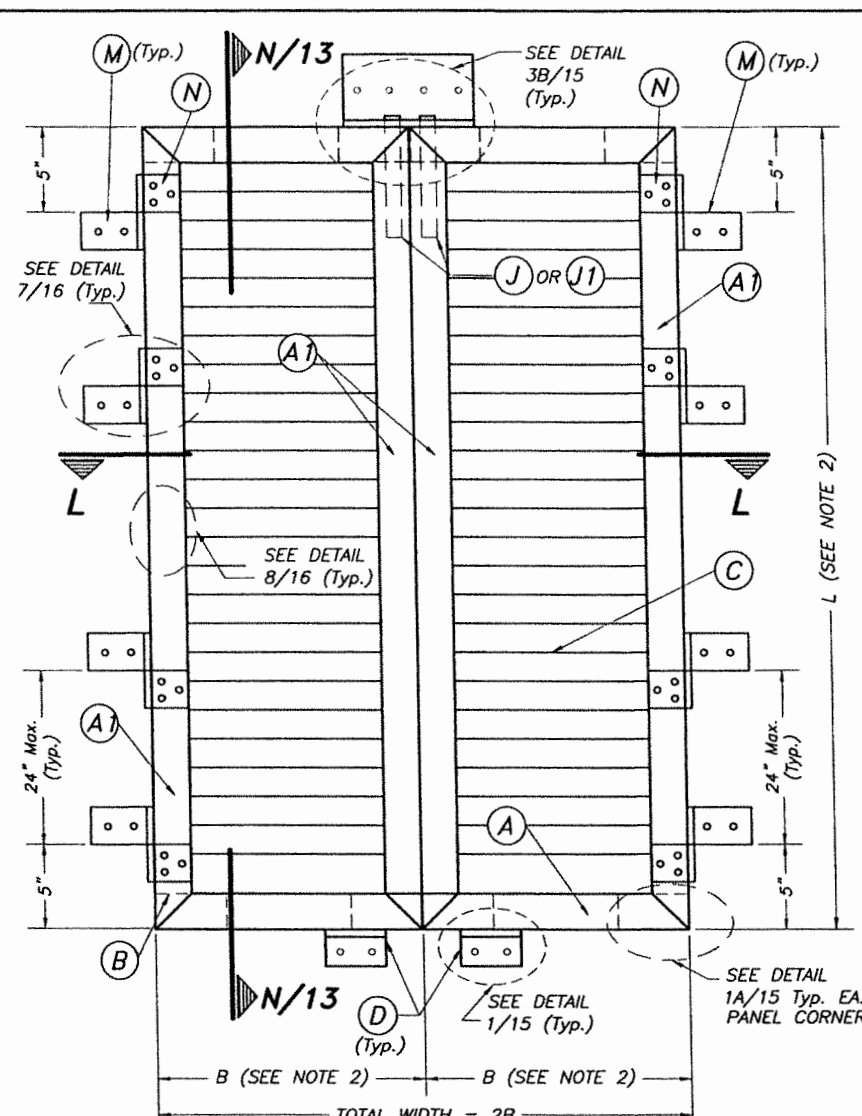
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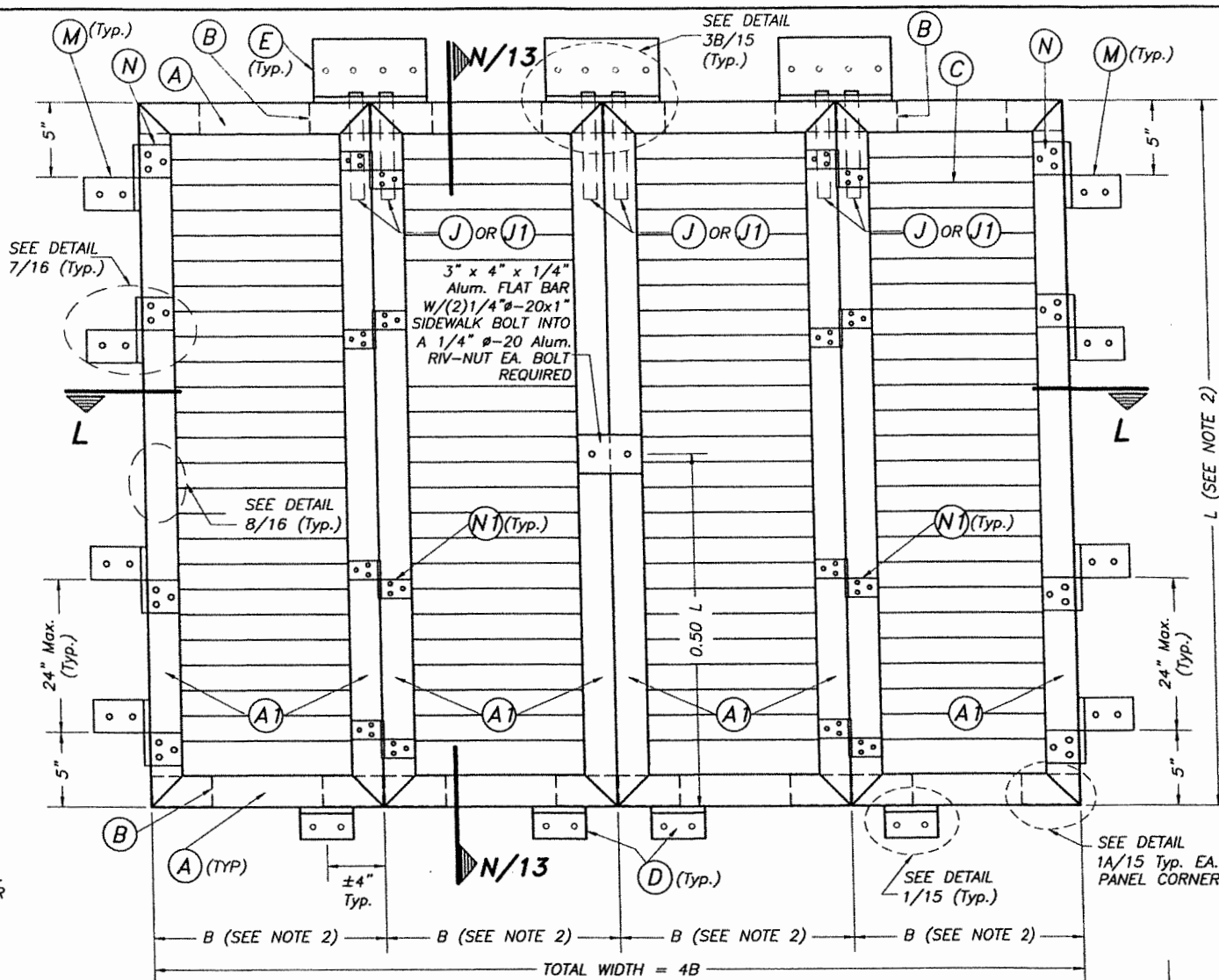
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ALUCORE LLC.					W.H DRAWN BY
24550 SW 193 AVE HOMESTEAD, FL 33031 Phone : (305) 330-5511					11/30/2017 DATE
					24-094 DRAWING No
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2			4		



DOUBLE PANEL W/O BRACKETS



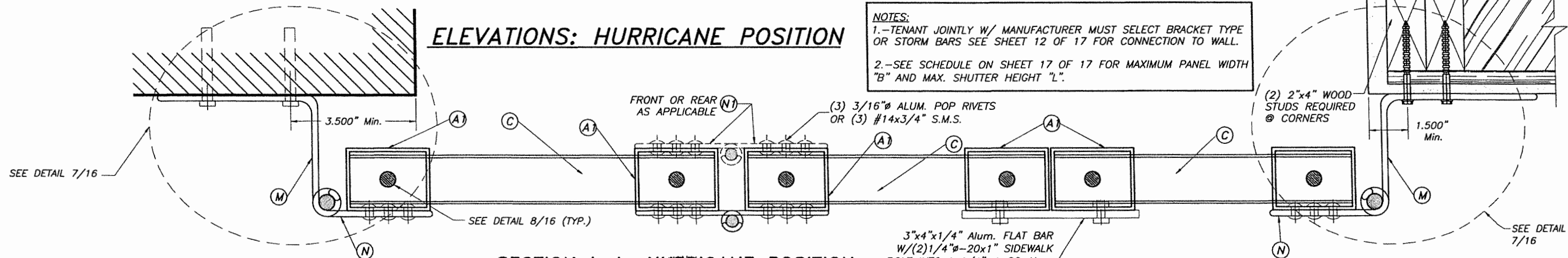
DOUBLE PANEL W/ BRACKETS



QUADRUPLE PANEL W/BRACKETS

ELEVATIONS: HURRICANE POSITION

- NOTES:**
- 1.-TENANT JOINTLY W/ MANUFACTURER MUST SELECT BRACKET TYPE OR STORM BARS SEE SHEET 12 OF 17 FOR CONNECTION TO WALL.
 - 2.-SEE SCHEDULE ON SHEET 17 OF 17 FOR MAXIMUM PANEL WIDTH "B" AND MAX. SHUTTER HEIGHT "L".



SECTION L-L: HURRICANE POSITION

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

3"x4"x1/4" Alum. FLAT BAR
W/(2)1/4"-20x1" SIDEWALK
BOLT INTO A 1/4" -20 Alum.
RIV-NUT EA. BOLT REQUIRED.

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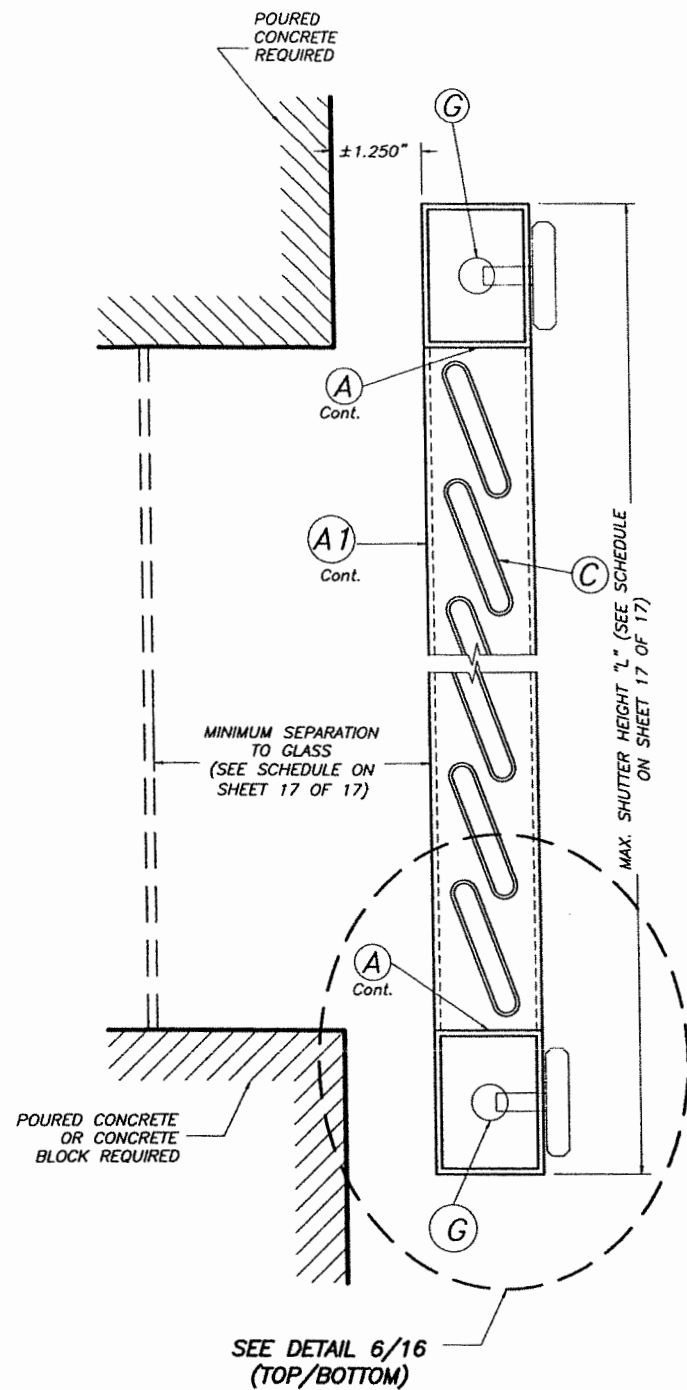
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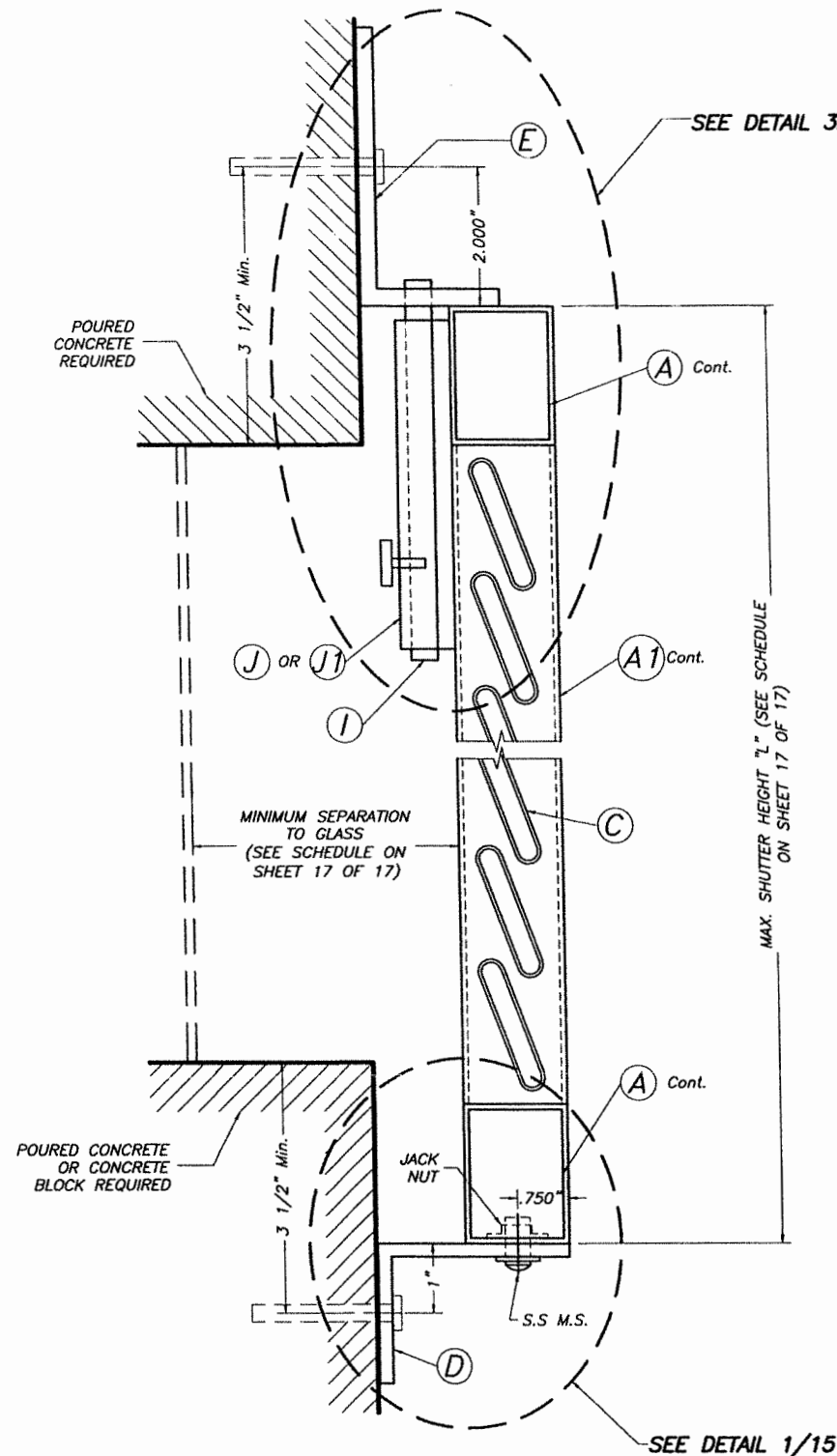
24-094
DRAWING No

SHEET 11 OF 17

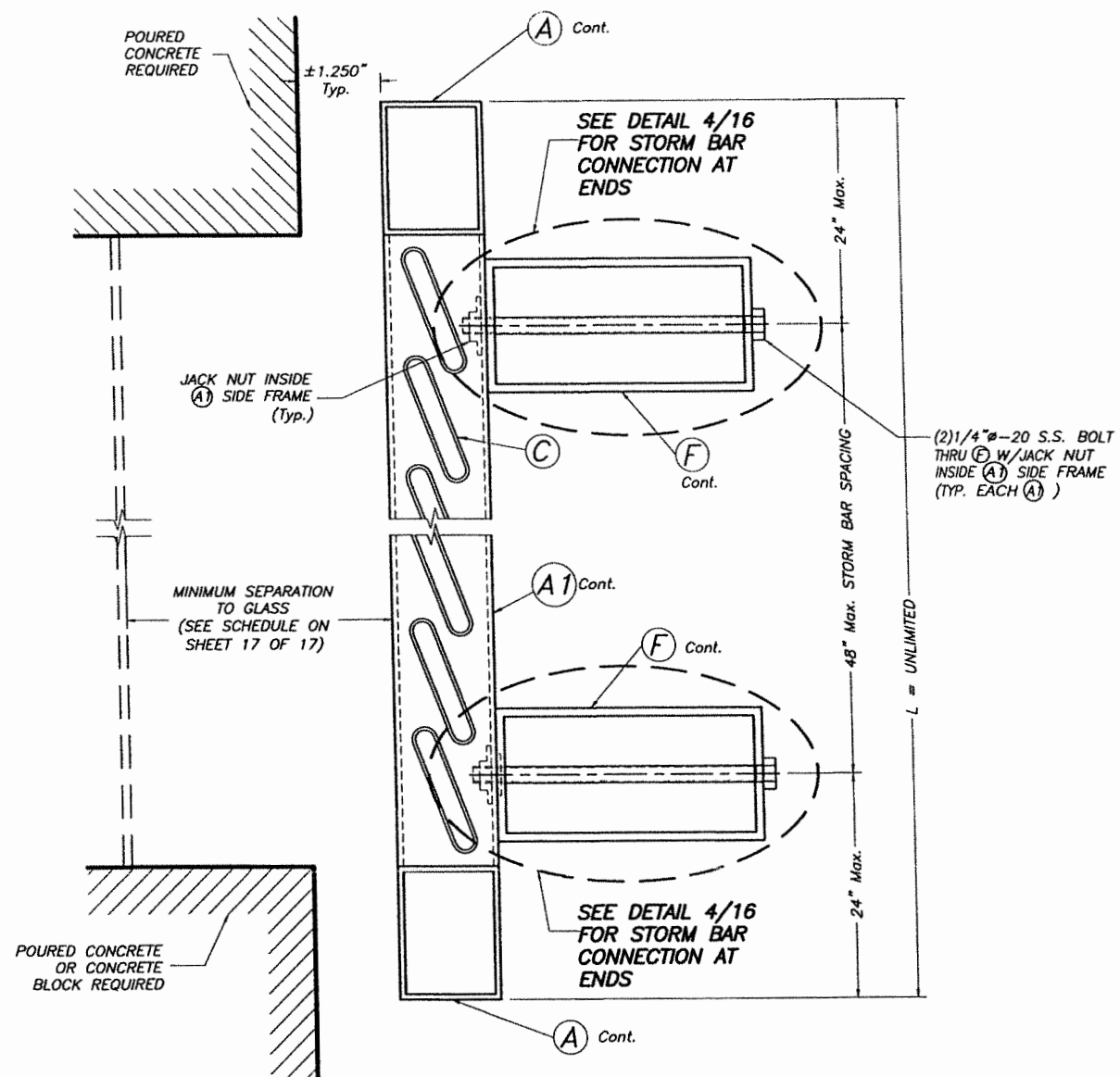
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		



SECTION M - M
(BUILD-OUT)
HURRICANE POSITION

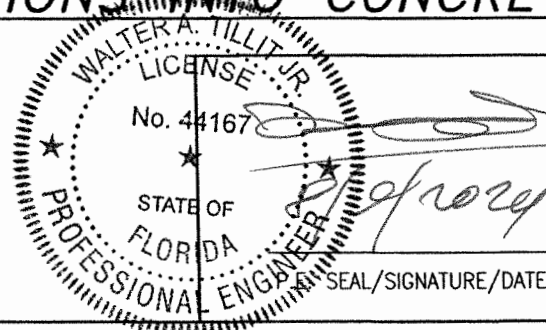


SECTION N - N
(BUILD-OUT)
HURRICANE POSITION



SECTION O - O
(BUILD-OUT)
HURRICANE POSITION

INSTALLATIONS INTO CONCRETE



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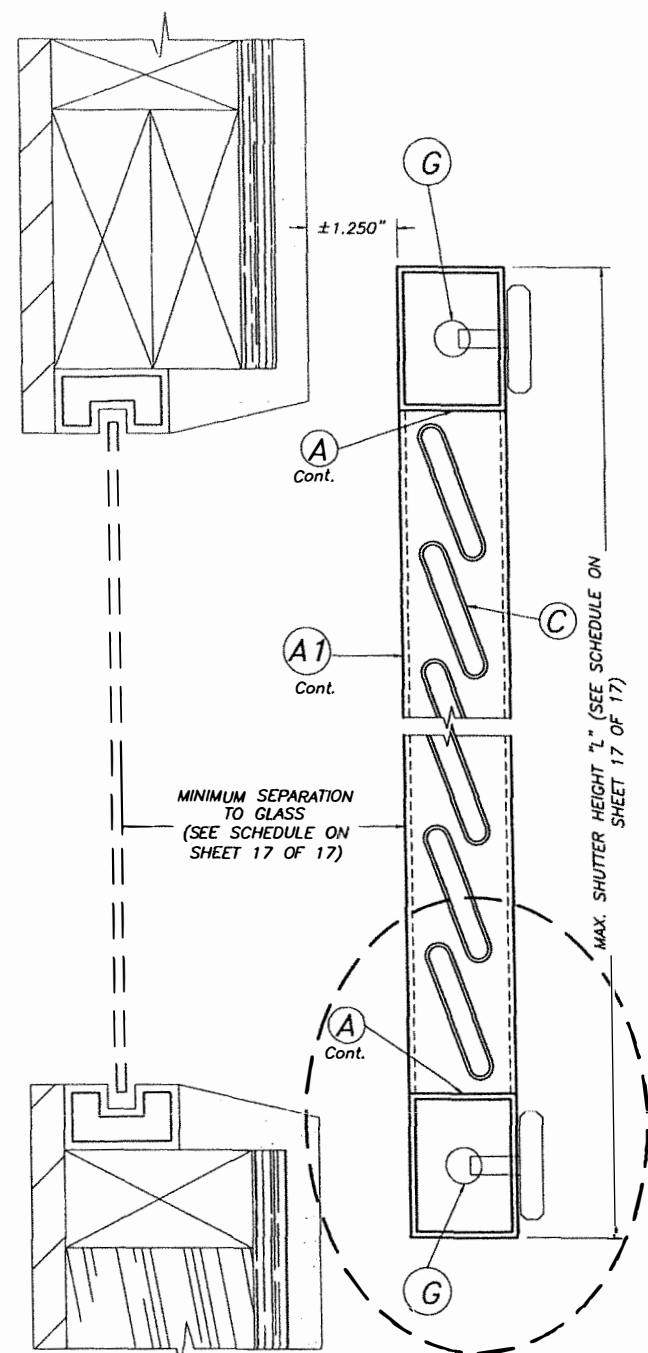
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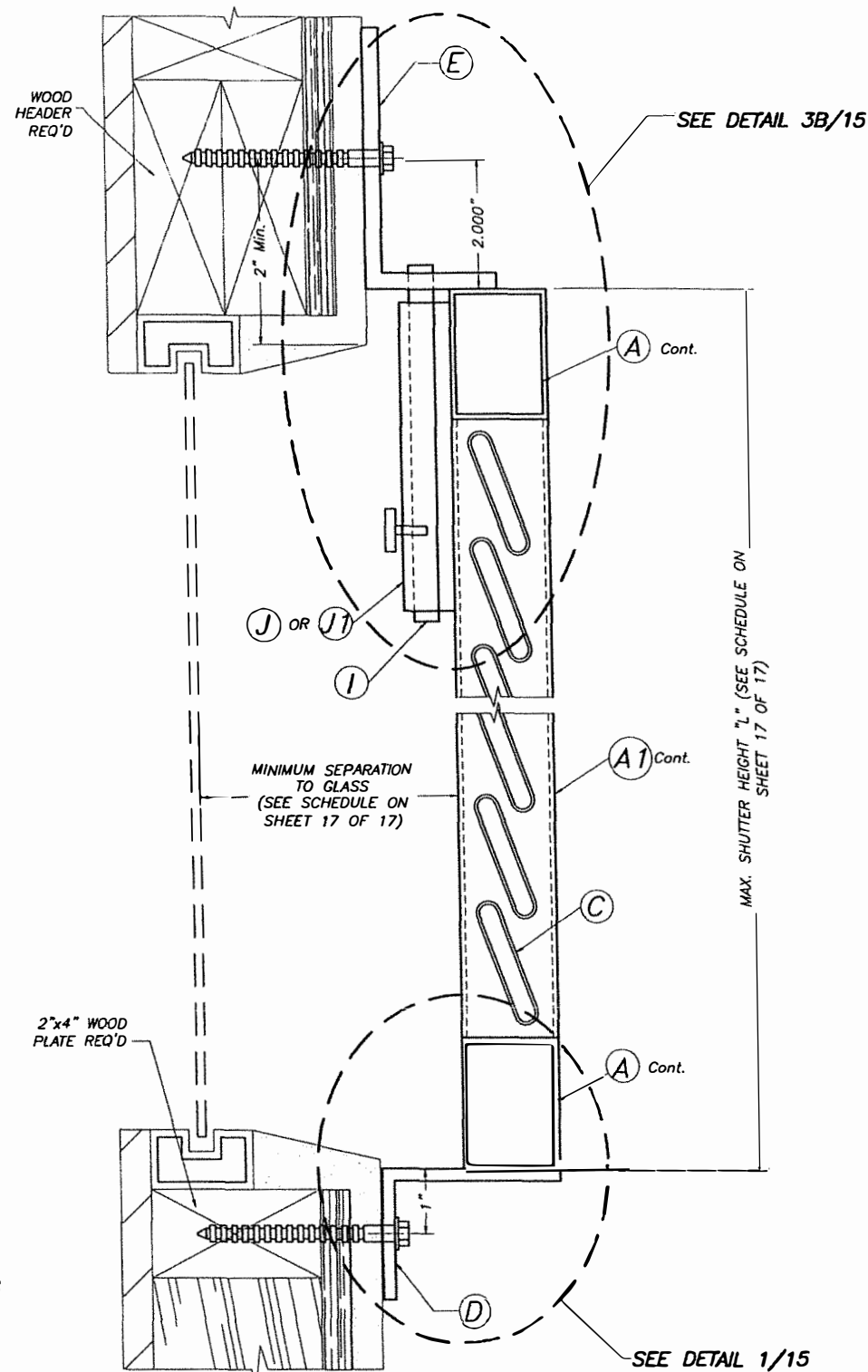
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2			4		

SHEET 13 OF 17



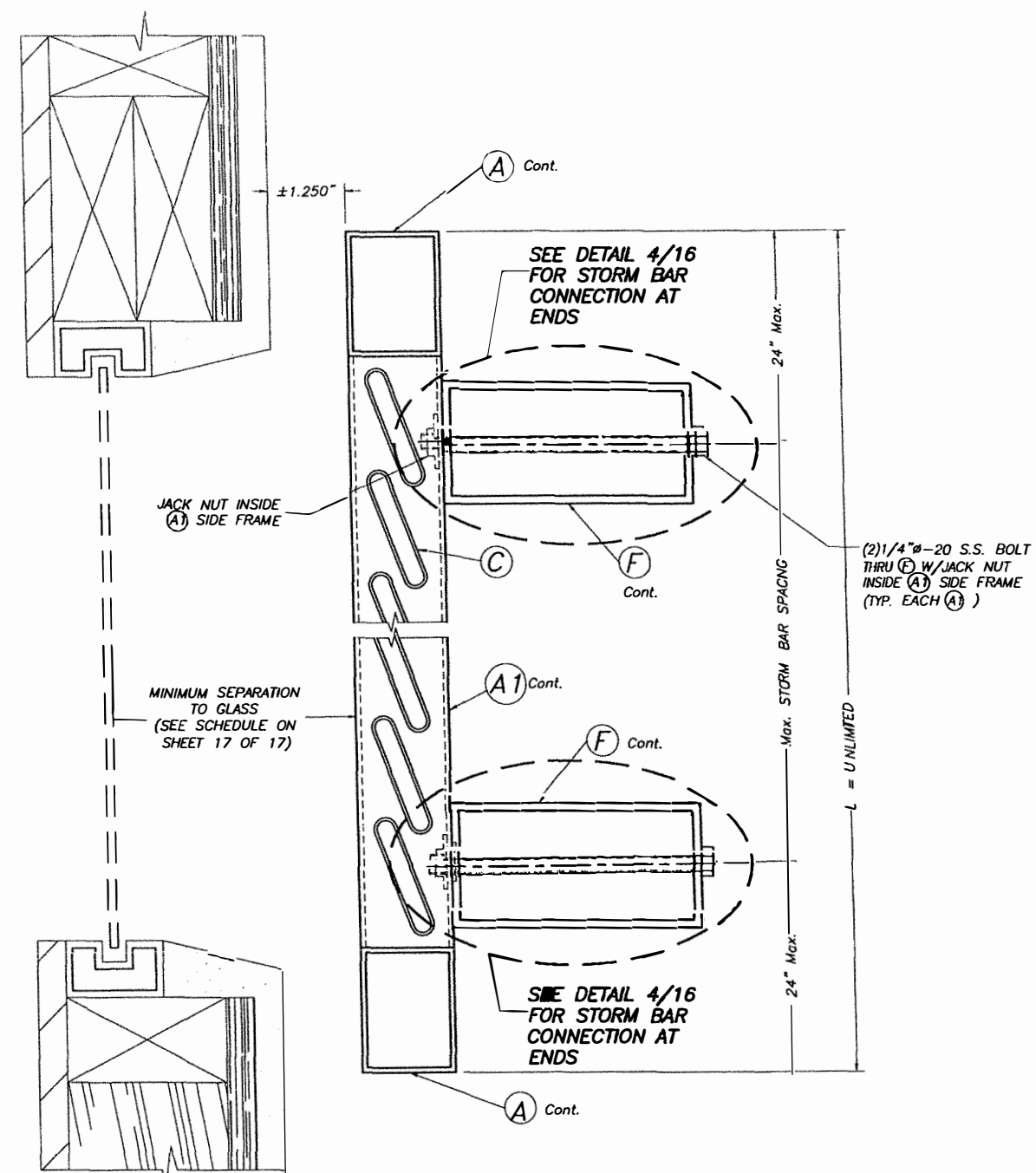
SECTION M - M
(BUILD-OUT)
HURRICANE POSITION

SEE DETAIL 6/16
TOP/BOTTOM



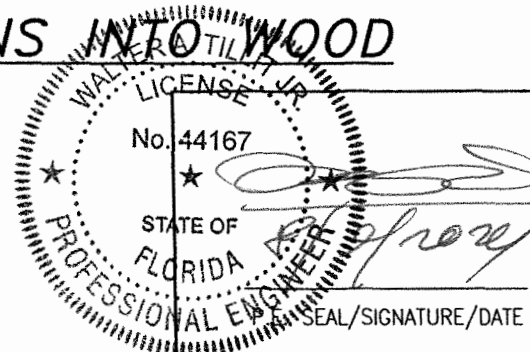
SECTION N - N
(BUILD-OUT)
HURRICANE POSITION

SEE DETAIL 1/15



SECTION O - O
(BUILD-OUT)
HURRICANE POSITION

INSTALLATIONS INTO WOOD

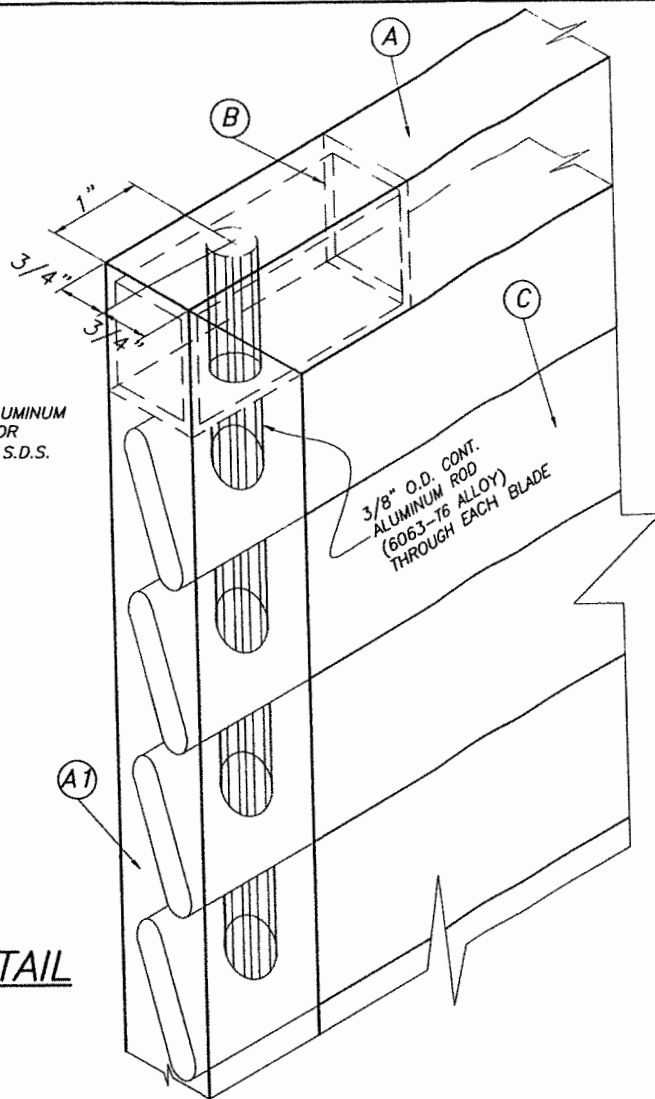
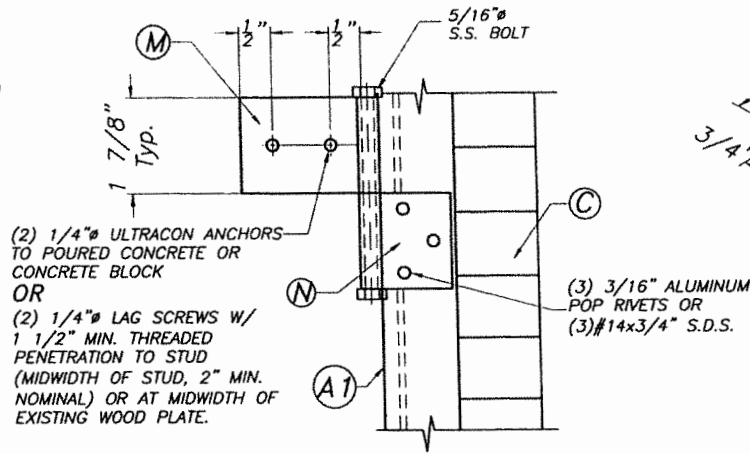
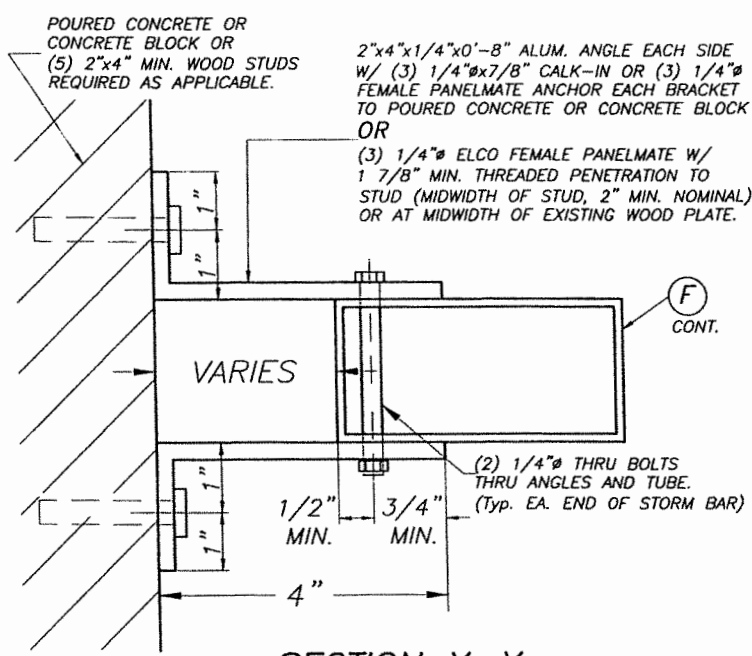
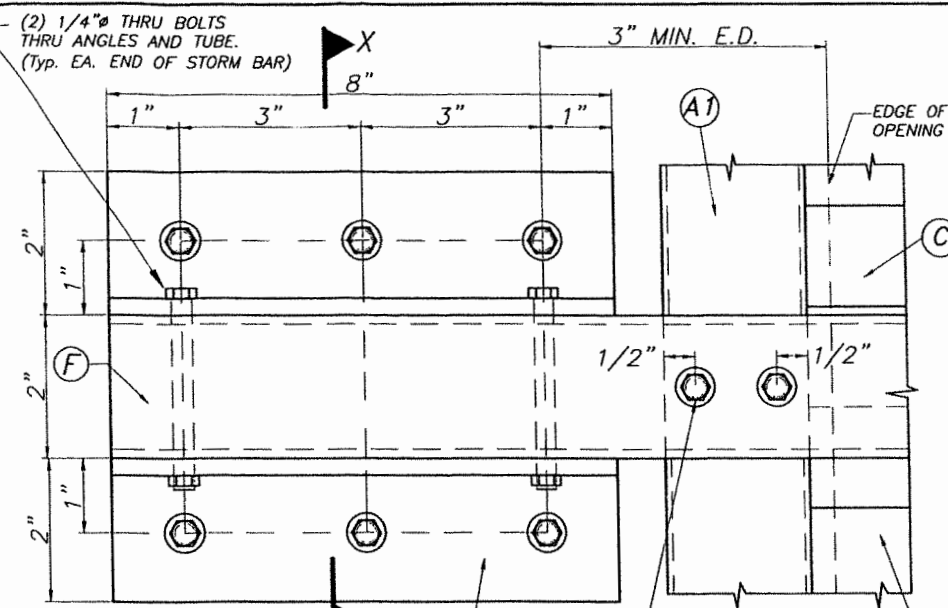


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WALTER A. TILIT Jr., P. E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (H.V.H.Z. & N.H.V.H.Z.)					
BAHAMA / COLONIAL SHUTTER				W.H. DRAWN BY	
ALUCORE LLC. 24550 SW 193 AVE HOMESTEAD, FL 33031 Phone : (305) 330-5511				11/30/2017 DATE	
				24-094 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

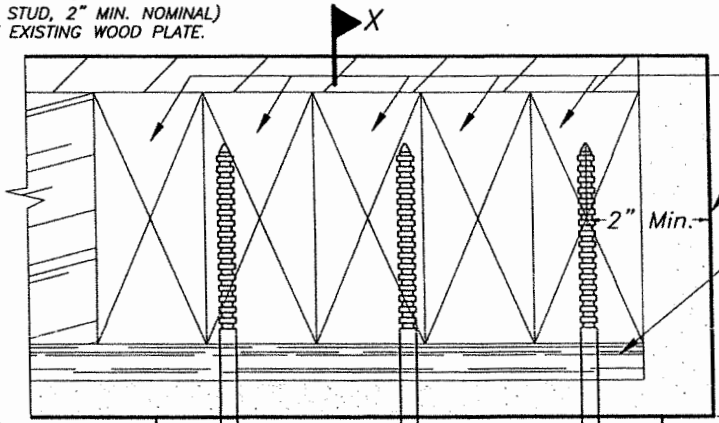


2"x4"x1/4"x0'-8" ALUM. ANGLE EACH SIDE W/ (3) 1/4"x7/8" CALK-IN OR (3) 1/4" FEMALE PANELMATE ANCHOR EACH BRACKET TO POURED CONCRETE OR CONCRETE BLOCK OR (3) 1/4" ELCO FEMALE PANELMATE W/ 1 7/8" MIN. THREADED PENETRATION TO STUD (MIDWIDTH OF STUD, 2" MIN. NOMINAL) OR AT MIDWIDTH OF EXISTING WOOD PLATE.

ELEVATION

**DETAIL 4
CONNECTION TO CONCRETE**

SCALE : 3/8" = 1"

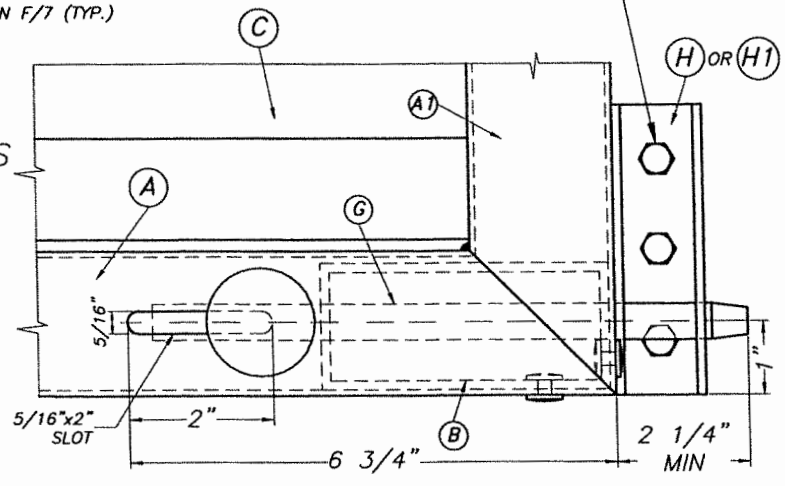


WOOD STUDS 2"x4" MIN (5 UNITS REQUIRED)
EXISTING STUCCO
1/2" MIN. THICK PLYWOOD REQ'D

(3) 1/4" ULTRACON OR (3) 1/4"x7/8" CALK-IN OR (2) 1/4" FEMALE PANELMATE ANCHOR EACH BRACKET TO POURED CONCRETE OR CONCRETE BLOCK OR (2) 1/4" LAG SCREWS W/ 1 1/2" MIN. THREADED PENETRATION OR (2) 1/4" ELCO FEMALE PANELMATE W/ 1 7/8" MIN. THREADED PENETRATION TO STUD (MIDWIDTH OF STUD, 2" MIN. NOMINAL) OR AT MIDWIDTH OF EXISTING WOOD PLATE.

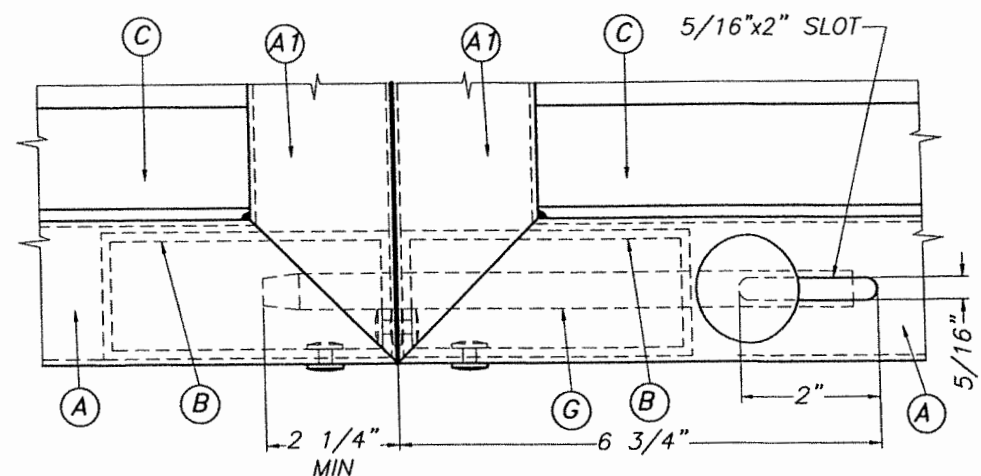
**DETAIL 8
TYPICAL BLADE'S
END RETENTION DETAIL
(ISOMETRIC)**

SCALE : N.T.S.



DETAIL 5

SCALE : 3/8" = 1"



DETAIL 6

SCALE : 3/8" = 1" FLORIDA BUILDING CODE (H.V.H.Z. & N.H.V.H.Z.)

**DETAIL 4
CONNECTION
TO WOOD
(PLAN)**

SCALE : 3/8" = 1"

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PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

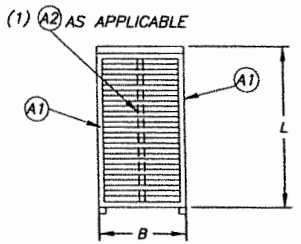
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		

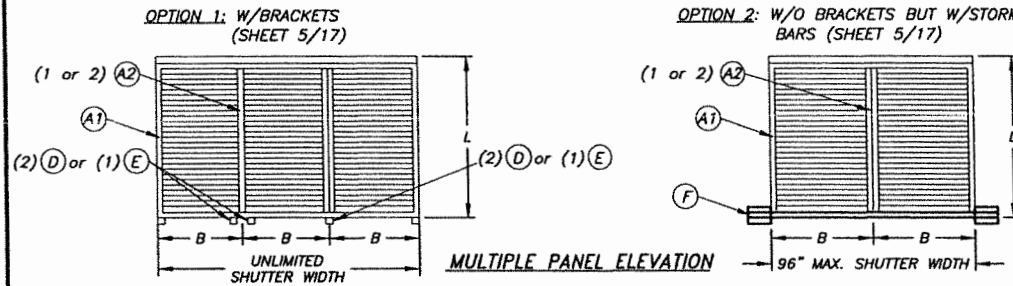
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SHEET 16 OF 17

BAHAMA SHUTTER SCHEDULE

SCHEDULE # 1
SINGLE PANEL FOR A
CORRESPONDING DESIGN PRESSURE

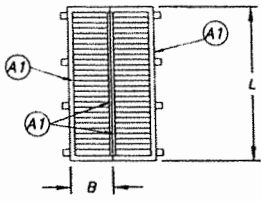
BAHAMA SHUTTER TYPE	 SINGLE PANEL ELEVATION W/BRACKETS (SHEET 5 OF 17)			
	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM PANEL WIDTH "B" (IN)	MAXIMUM SHUTTER HEIGHT "L" (IN)	INT. MULLION (A2) REQ'D
	+65.00, -65.00	36"	76"	NO
	+65.00, -65.00	42"	76"	YES

SCHEDULE # 2
MULTIPLE PANEL FOR A
CORRESPONDING DESIGN PRESSURE

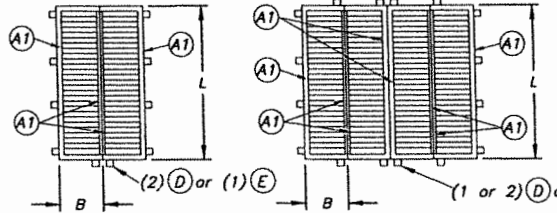
BAHAMA SHUTTER TYPE	 MULTIPLE PANEL ELEVATION					
	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM PANEL WIDTH "B" (IN)	MAXIMUM SHUTTER HEIGHT "L" (IN) W/(1) (A2)	MAXIMUM SHUTTER HEIGHT "L" (IN) W/(2) (A2)	BRACKETS ALLOWED	STORM BAR ALLOWED
	+70.00, -70.00	24"	66"	-	YES	YES
	+60.00, -65.00	36"	54"	76"	YES	NO
	+60.00, -60.00	36"	54"	76"	YES	YES

COLONIAL SHUTTER SCHEDULE

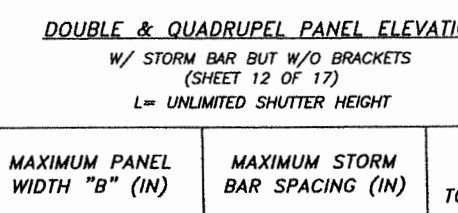
SCHEDULE # 1
DOUBLE PANEL FOR A
CORRESPONDING DESIGN PRESSURE

COLONIAL SHUTTER TYPE	 DOUBLE PANEL ELEVATION W/O STORM BAR, W/O BRACKETS & W/HORIZONTAL LOCK ROD TOP/BOTTOM (SHEET 11 OF 17)		
	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM PANEL WIDTH "B" (IN)	MAXIMUM SHUTTER HEIGHT "L" (IN)
	+66.00, -66.00	21"	48"

SCHEDULE # 2
DOUBLE & QUADRUPEL PANEL FOR A
CORRESPONDING DESIGN PRESSURE

COLONIAL SHUTTER TYPE	 DOUBLE & QUADRUPEL PANEL ELEVATION W/O STORM BARS, AND W/BRACKETS (SHEET 11 OF 17)		
	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM PANEL WIDTH "B" (IN)	MAXIMUM SHUTTER HEIGHT "L" (IN)
	+55.0, -55.0	24"	100"

SCHEDULE # 3
DOUBLE & QUADRUPEL PANEL FOR A
CORRESPONDING DESIGN PRESSURE

COLONIAL SHUTTER TYPE	 DOUBLE & QUADRUPEL PANEL ELEVATION W/ STORM BAR BUT W/O BRACKETS (SHEET 12 OF 17) L= UNLIMITED SHUTTER HEIGHT		
	MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM PANEL WIDTH "B" (IN)	MAXIMUM STORM BAR SPACING (IN)
	+66.00, -66.00	24"	48"

FLORIDA BUILDING CODE (H.V.H.Z. & N.H.V.H.Z.)

WALTER A. TILLIT JR.
LICENSE
No. 44167
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PROFESSIONAL ENGINEER
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BAHAMA / COLONIAL SHUTTER					
ALUCORE LLC.					
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-297	8/9/24	3		
2			4		