

SERIES MDCA 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES LARGE MISSILE IMPACT RESISTANT

GENERAL NOTES:

1. SERIES MDCA 2155 ALUMINUM OUTSWING FRENCH DOOR, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. SERIES MDCA 2155 ALUMINUM OUTSWING FRENCH DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR $C_D=1.60$ WAS USED TO VERIFY FASTENERS IN WOOD, PER N.D.S 2018.

THIS DOOR'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 AND 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY, INC. LAB REPORT #8131 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 AND 1604 OF THE FLORIDA BUILDING CODE. GLASS VERIFIED PER ASTM E-1300-9e, PER SECTION 2404.1 OF DE FLORIDA BULDING CODE.

2. REMAINING COMPONENTS FOR THIS FRENCH DOOR SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS AND COMPONENT SHEETS 2, 3 AND 4 OF THIS DRAWING.

3. MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS PRODUCT SHALL BE AS SHOWN ON SHEET 21. SEE DOOR ELEVATIONS ON SHEETS 5 THRU 10 FOR QUALIFIED CONFIGURATIONS.

4. THIS SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

5. THIS SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR IS APPROVED FOR AIR AND WATER INFILTRATION.

6. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y=25.0$ ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING. ALL ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

7 ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) 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 & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

8. WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, $G=0.55$. AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2326 OF THE FLORIDA BUILDING CODE.

9. ANCHOR NOTES: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.

(A) TO EXISTING POURED CONCRETE: (MIN. $f'_c = 2000$ psi), MIN. EDGE DISTANCE (E.D.) = 3".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22), THRU 1" P.T. WOOD BUCK.

(B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 3".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22), THRU 1" P.T. WOOD BUCK.

(C) TO EXISTING 2xP.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/2" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22).

(D) TO EXISTING MIN. 1/8" THICK ALUMINUM TUBE (6063-T5 ALLOY) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22A), FULLY ENGAGED.

(E) TO EXISTING MIN. 12 GAGE STEEL MEMBER (MIN A-653 GRADE 33 OR A-36) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22A), FULLY ENGAGED.

10. PROVIDE 1/4" MAX. LOAD BEARING SHIM, WHEN ALLOWED BY THIS DRAWING.

11. DOORS INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

12. ALL DOORS COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING SHALL BE SEAL/CAULK TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL ALL AROUND FULL LENGTH.

13. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

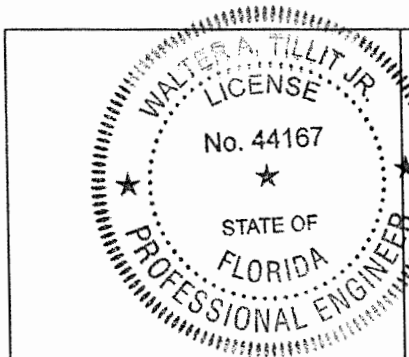
14. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

(a) 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.

(b) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(c) 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



Signature of Walter A. Tillit Jr.
10/29/2024
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)

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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES MDCA 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES.

W.H
DRAWN BY:

**ALUMINEX WINDOWS
& DOORS, LLC.**

07/17/2024
DATE:

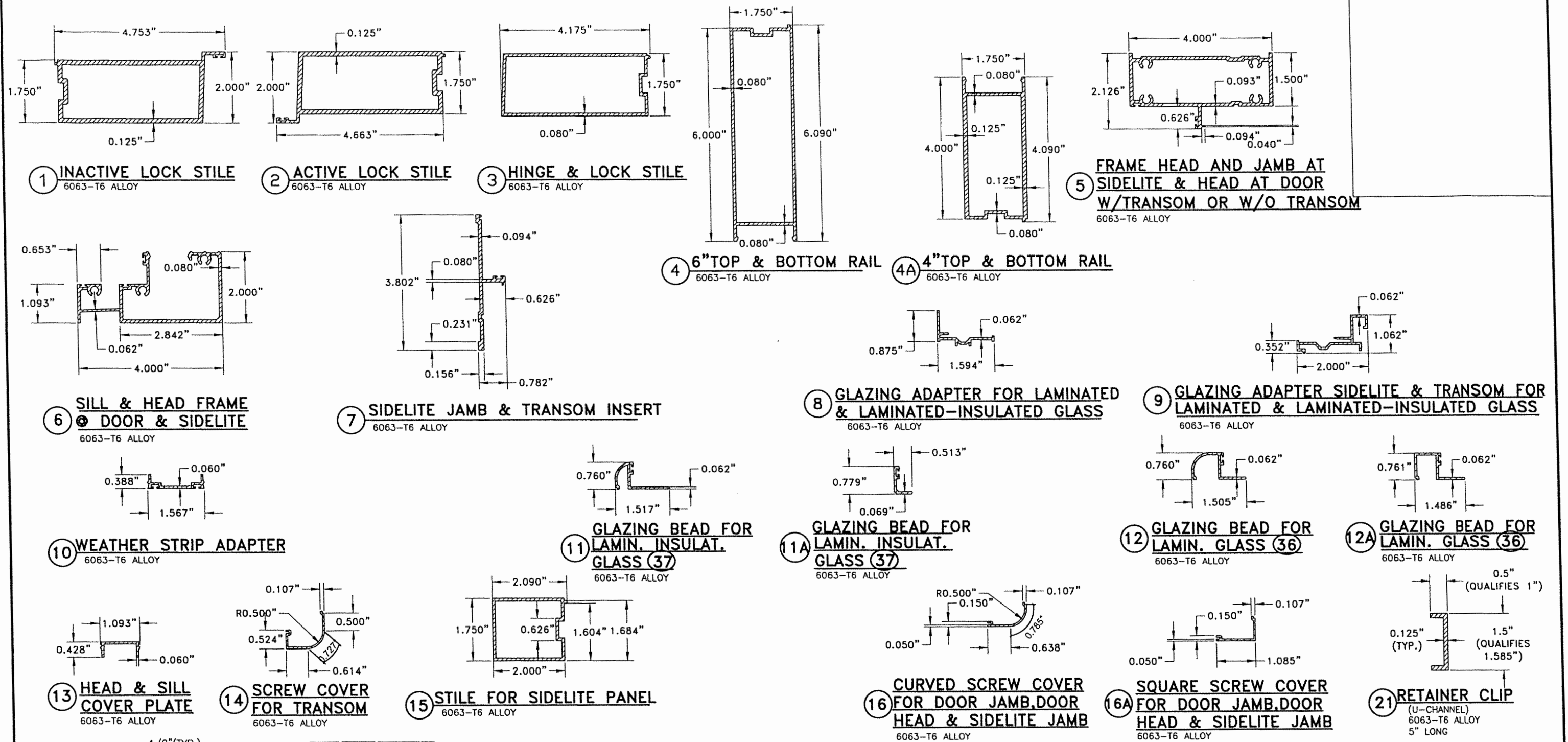
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MIAMI, FL 33166
PH: (786) 222-0427, FAX: (305) 428-3011

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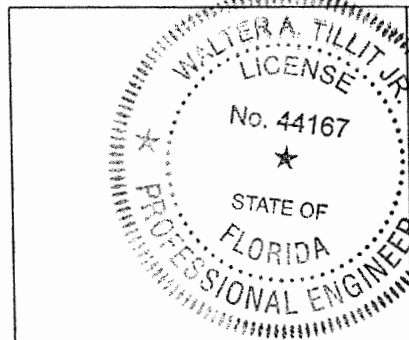
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1	GENERAL	10/28/24	3	-	-
2	-	-	4	-	-

SHEET 1 of 24



COMPONENTS

SCALE: N.T.S



Walter A. Tillit Jr.
10/24/24

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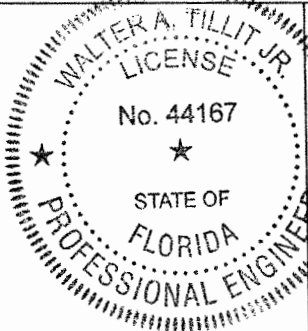
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						24-078
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1	GENERAL	10/28/24	3	-	-	SHEET 2 of 24
2	-	-	4	-	-	

BILL OF MATERIALS			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
①	INACTIVE LOCK STILE	SEE SHEET 2	6063-T6
②	ACTIVE LOCK STILE	SEE SHEET 2	6063-T6
③	HINGE & LOCK STILE (SINGLE DOOR) & HINGE STILE (DOUBLE DOOR)	SEE SHEET 2	6063-T6
④	6" TOP & BOTTOM RAIL	SEE SHEET 2	6063-T6
④A	4" TOP & BOTTOM RAIL	SEE SHEET 2	6063-T6
⑤	FRAME HEAD AND JAMB AT SIDELITE & HEAD AT DOOR W/TRANSOM OR W/O TRANSOM	SEE SHEET 2	6063-T6
⑥	SILL & HEAD FRAME @ DOOR & SIDELITE	SEE SHEET 2	6063-T6
⑦	SIDELITE JAMB & TRANSOM INSERT	SEE SHEET 2	6063-T6
⑧	GLAZING ADAPTER DOOR FOR LAMINATED & LAMINATED-INSULATED GLASS	SEE SHEET 2	6063-T6
⑨	GLAZING ADAPTER SIDELITE & TRANSOM FOR LAMINATED & LAMINATED-INSULATED GLASS	SEE SHEET 2	6063-T6
⑩	WHEATHER STRIP ADAPTER	SEE SHEET 2	6063-T6
⑪	GLAZING BEAD FOR LAMINATED-INSULATED GLASS-13/16"	SEE SHEET 2	6063-T6
⑪A	GLAZING BEAD FOR LAMINATED-INSULATED GLASS-13/16"	SEE SHEET 2	6063-T6
⑫	GLAZING BEAD FOR LAMINATED GLASS-7/16"	SEE SHEET 2	6063-T6
⑫A	GLAZING BEAD FOR LAMINATED GLASS-7/16"	SEE SHEET 2	6063-T6
⑬	HEAD AND SILL COVER PLATE	SEE SHEET 2	6063-T6
⑭	SCREW COVER FOR TRANSOM	SEE SHEET 2	6063-T6
⑮	STILE FOR SIDELITE PANEL	SEE SHEET 2	6063-T6
⑯	CURVED SCREW COVER FOR DOOR JAMB, DOOR HEAD & SIDELITE JAMB	SEE SHEET 2	6063-T6
⑯A	SQUARE SCREW COVER FOR DOOR JAMB, DOOR HEAD & SIDELITE JAMB	SEE SHEET 2	6063-T6
⑰	#14 x 1 1/2" S.S. TEK SCREW 5" FROM JAMBS, BALANCE @ 12" O.C.	SIDELITE JAMB INSERT-TRANSOM INSERT & RETAINER CLIP SCREW	STEEL
⑱	#12 x 1" PAN HEAD S.S. TEK SCREW 6" FROM ENDS, BALANCE @ 7" O.C.	SIDELITE JAMB STILE (PANEL CONNECTION)	STEEL
⑲	#14 x 2 1/2" H.H SCREW, 5" FROM JAMBS, BALANCE @ 12" O.C.	DOOR-SIDELITE-TRANSOM (FRAME ASSEMBLY) -180 Ksi TENSILE STRENGTH	STEEL
⑳	#10 x 1" F.H. S.S. TEK SCREW @ 8" O.C.	GLAZING ADAPTER & FRAME HEAD/JAMB ASSEMBLY & HINGE/LOCK STILE	STEEL
㉑	RETAINER CLIP	AT DOOR PANEL, W/ (2) #14x3/4 TEK SCREWS TO STILES, JOINS RAILS W/ STILES +(35)	6063-T6
㉒	TAPCON (ITW/BUILDEX) CONCRETE ANCHOR	1/4" Ø - SEE GENERAL NOTE 9 ON SHEET 1	STEEL
㉒A	TEK SCREW (ITW/BUILDEX)	1/4" Ø - SEE GENERAL NOTE 9 ON SHEET 1	STEEL
㉓	EXTRUDED HINGES	3 1/2" X 7 3/4" POWDER COATED W/ (6) #10-20x7/16" F.H. S.S. MS TO FRAME & W/ (5) #10-24x7/16" F.H. S.S. MS TO DOOR PANEL	6063-T6
㉔	GLAZING BULB	0.250"x0.345" (ULTRAFAB)	VINYL
㉕	FIN SEAL PILE W/ PLASTIC	ULTRAFAB	
㉖	SEAL WEATHER STRIPPING	PRO-LON	FOAM
㉗	SHOOT BOLT	TOP & BOTTOM 3/8Ø x2" (2) REQ'D @ ACTIVE +(2) REQ'D @ INACTIVE. PENETRATE 2" MIN. INTO HD/SILL	STEEL
㉗A	SHOOT BOLT GUIDE	TOP & BOTTOM SEE DETAIL SHEET 24. 1 1/2" x 1 1/2" x 1/8" x 0'-1 1/2", 6063-T6 ALUMINUM ANGLE	ALUMINUM
㉘	1/4" DRIVE ROD TOP & BOTTOM		ALUMINUM
㉙	3 POINT LOCK ACTIVE HANDLE W/ MECHANISM & RODS W/ CYLINDER, LATCH & DEAD BOLT STRIKE, LEVER COMPRESSION LOCK MANUFACTURED BY ASSA ABLOY		
㉙A	2 POINT LOCK ACTIVE HANDLE W/ MECHANISM & RODS W/ INSTALLATION AT (2) #8-32 x 7/16" SCREWS PER PANEL & TWIN BOLT LOCK W/ (1) #8-32 x 7/16" SCREW PER PANEL MANUFACTURED BY ASSA ABLOY		
㉚	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
㉛	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
㉜	BUMPER SPHEAR		SILICONE
㉝	FLUSH BOLT	HARDWARE ASSA ABLOY, 7 mm ROD W/ (2) # 8 x 1/2" SMS TO STILE	PLATED STEEL
㉝A	TWO POINT LOCK SYSTEM WITH ACTIVATING LEVER TYPE HANDLE, KEY OPERATOR ON THE EXTERIOR, THUMB TURN ON THE INTERIOR WITH NO VISIBLE PRODUCT MARKINGS	38" FROM BOTTOM, ONLY USED AT ACTIVE DOOR IN DOUBLE DOORS OR AT SINGLE DOORS	PLATED STEEL
㉞	SETTING BLOCK		E.P.D.M.
㉟	CONTINUOS THREADED ROD	3/8"Ø, W/ (4) S.S. SECURITY NUTS W/ NYLON INSERT EACH DOOR PANEL (2 PER DOOR)	STEEL
㊱	WEEP HOLES	1/16" HIGH x 1.15/16" LONG @ THRESHOLD (2 PER DOOR)	



[Signature]
10/24/2024

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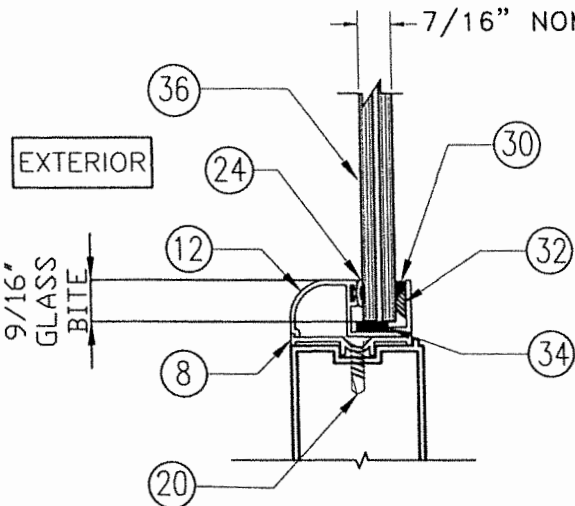
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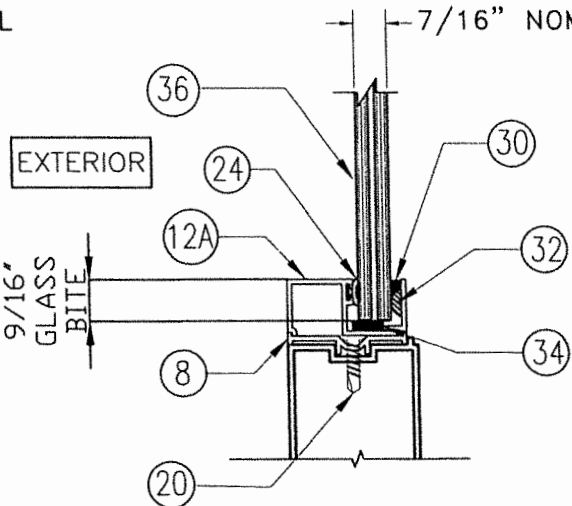
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SHEET 3 of 24

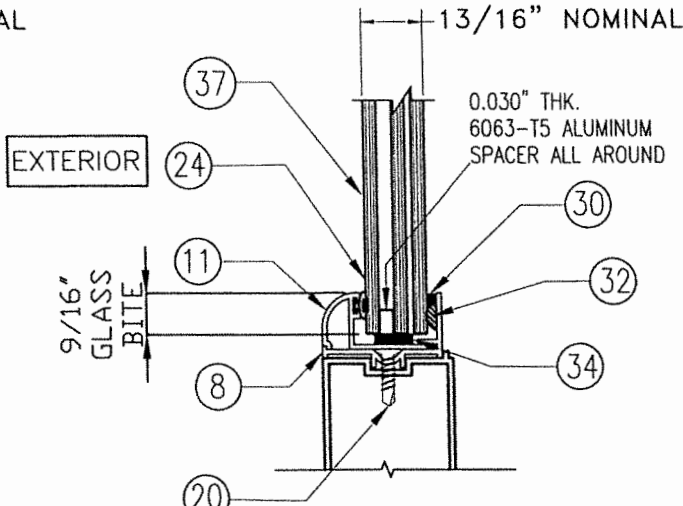
BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
36	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
37	13/16" INSULATED-LAMINATED GLASS W/ 3/16" TEMPERED GLASS OUT BOARD -1/4" ARGON SPACER + 3/16" H.S. + 0.090" PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. INBOARD	GLASS



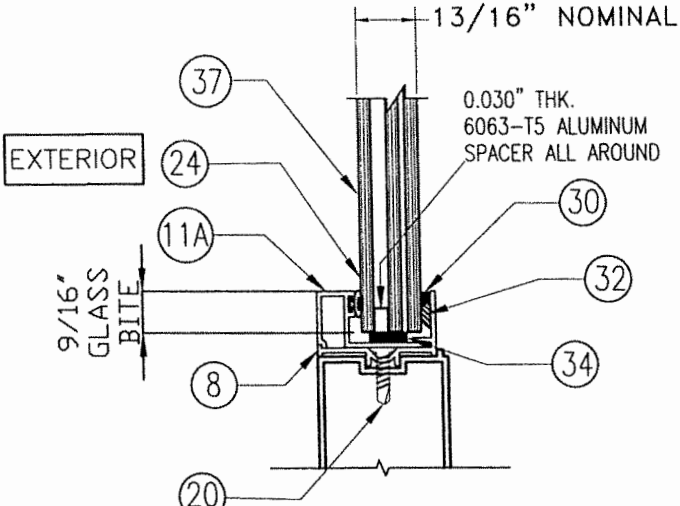
GLAZING DETAIL 1
AT 36 W/12
SCALE: N.T.S



GLAZING DETAIL 2
AT 36 W/12A
SCALE: N.T.S



GLAZING DETAIL 3
AT 37 W/11
SCALE: N.T.S



GLAZING DETAIL 4
AT 37 W/11A
SCALE: N.T.S

HARDWARE SCHEDULE						
OPTION #1	REQ'D HARDWARE AT DOUBLE DOORS				REQ'D HARDWARE AT SINGLE DOORS	
	AT ACTIVE DOOR		AT INACTIVE DOOR			
1	TOP / BOTTOM :	33	TOP / BOTTOM :	33	TOP / BOTTOM :	33
	AT 38" FROM BOTTOM :	33A	AT 38" FROM BOTTOM :	N/A	AT 38" FROM BOTTOM :	33A
2	TOP / BOTTOM :	29	TOP / BOTTOM :	29A	TOP / BOTTOM :	29
	AT 38" FROM BOTTOM :	29	AT 38" FROM BOTTOM :	N/A	AT 38" FROM BOTTOM :	29

WALTER A. TILLIT JR.

LICENSE

No. 44167

STATE OF FLORIDA

PROFESSIONAL ENGINEER

10/29/2024

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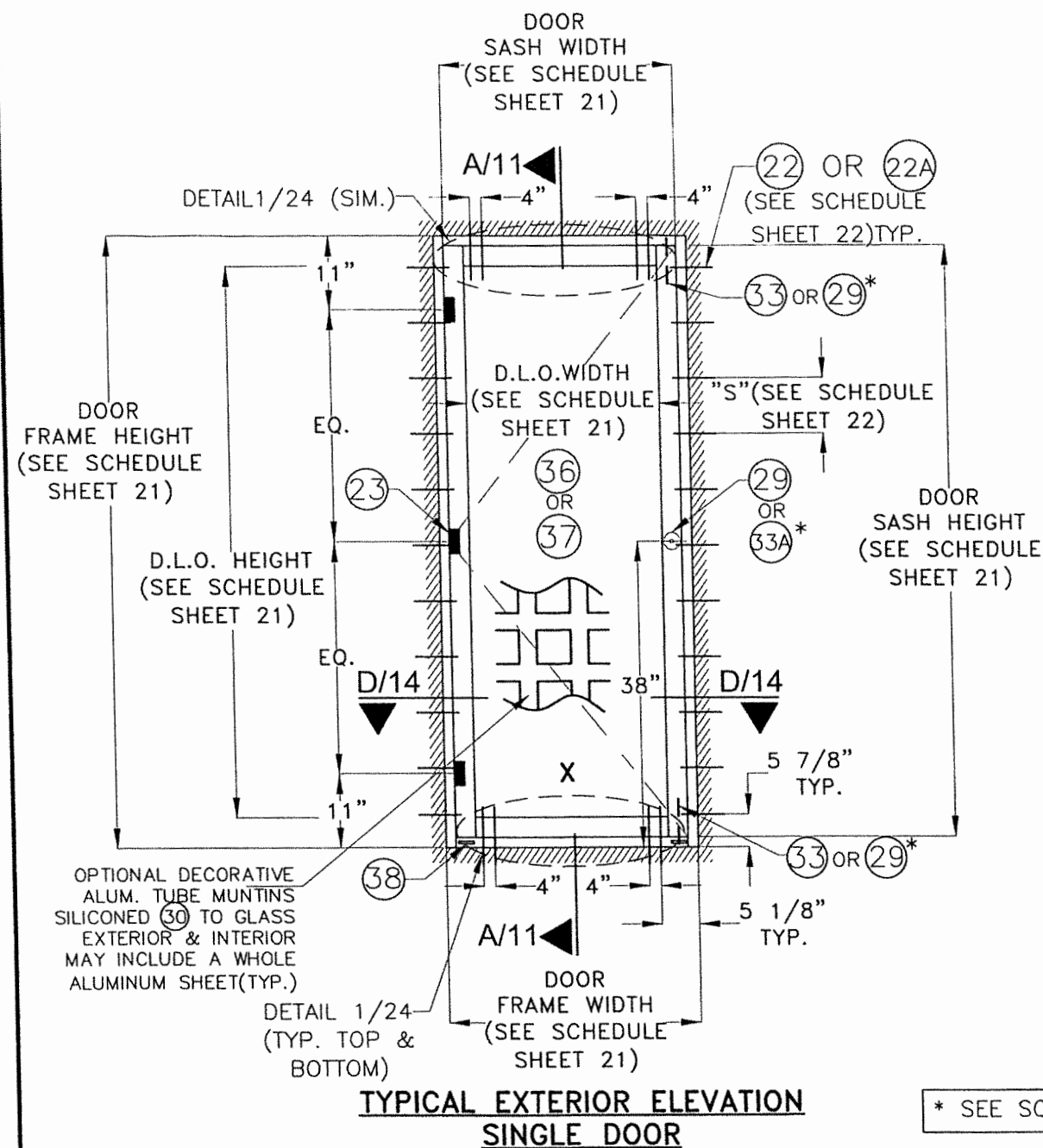
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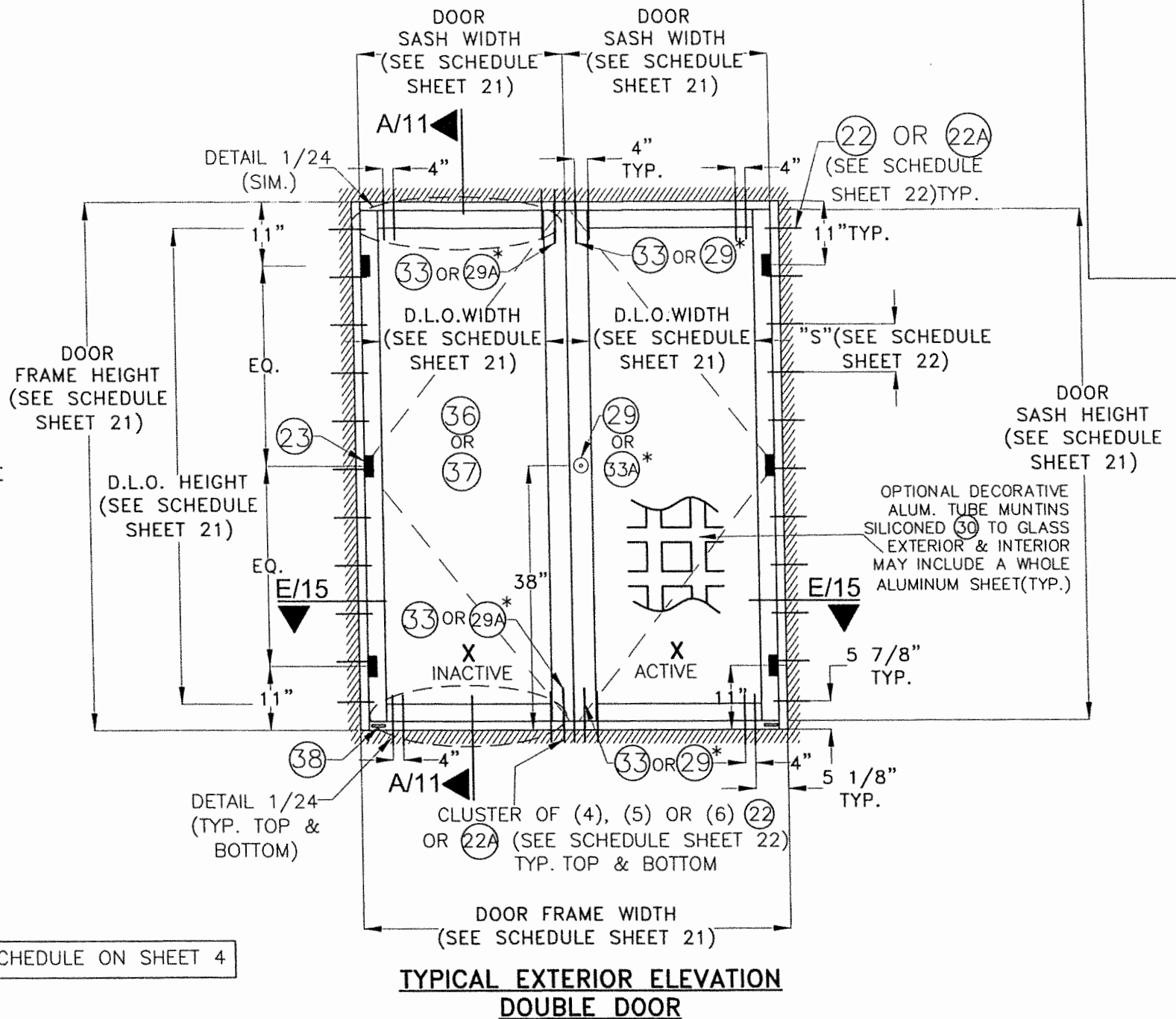
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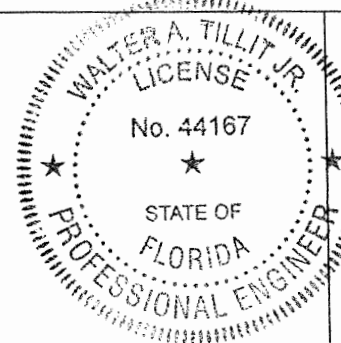


* SEE SCHEDULE ON SHEET 4



TYPICAL EXTERIOR ELEVATIONS FOR SINGLE & DOUBLE DOOR W/O TRANSOM NOR SIDELITES

SCALE: N.T.S



Walter A. Tillit Jr.
10/28/2024

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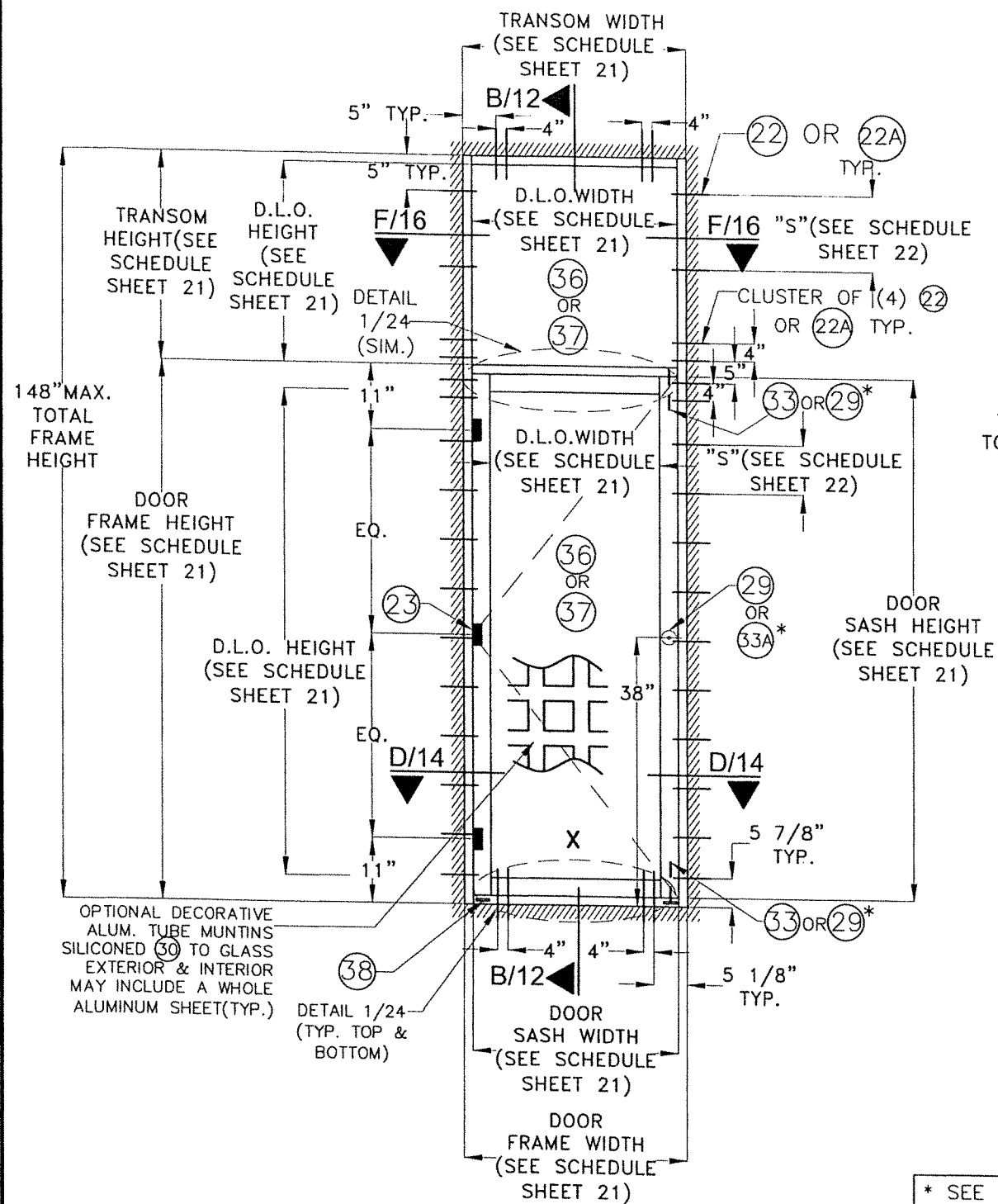
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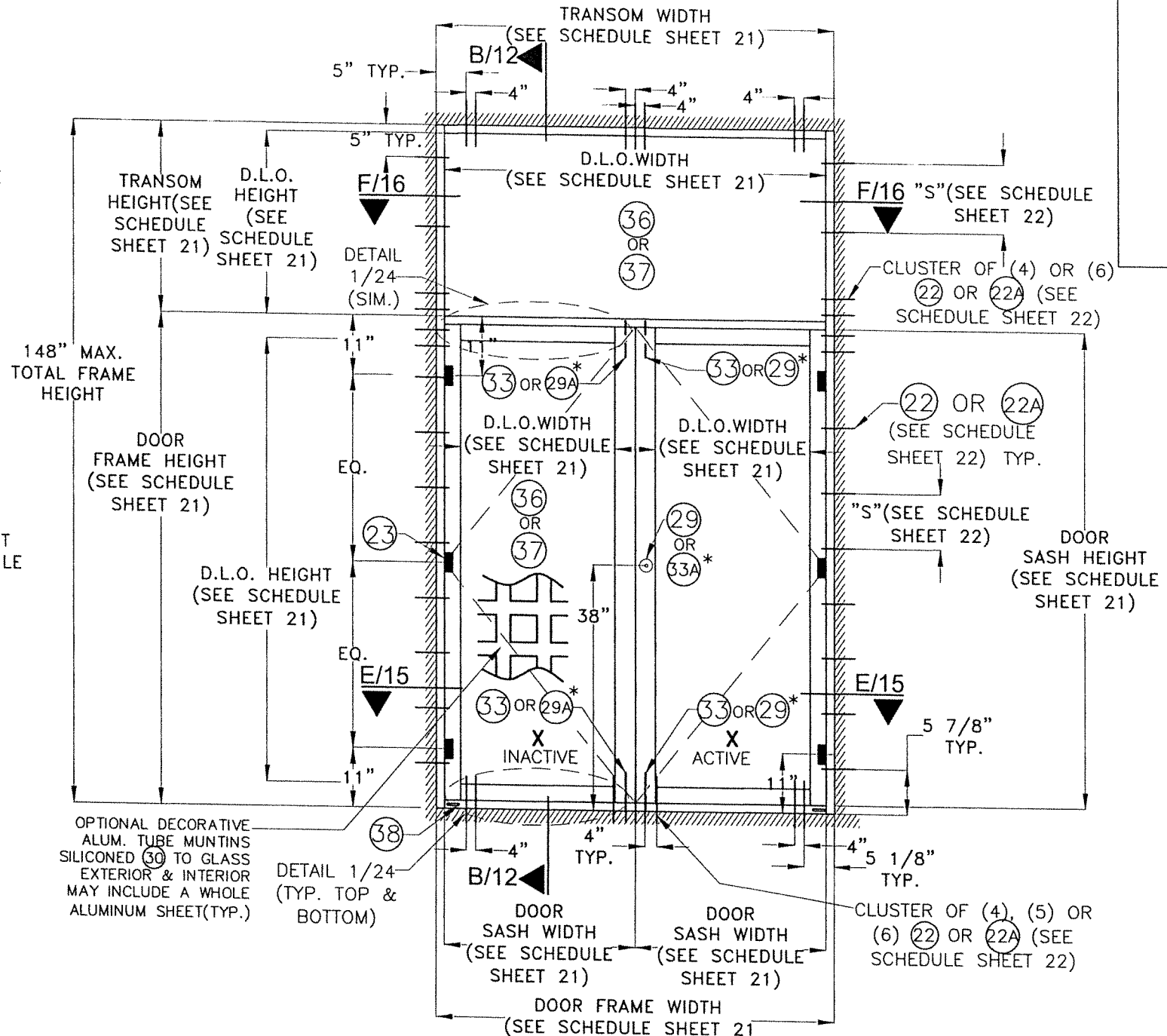
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SHEET 5 of 24



**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR W/ TRANSOM**

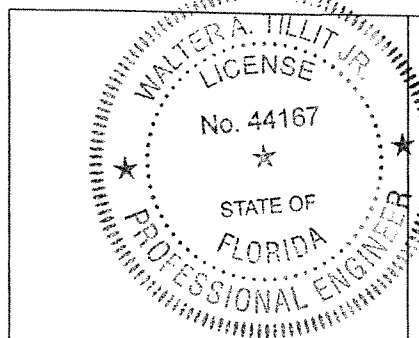


**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR W/ TRANSOM**

* SEE SCHEDULE ON SHEET 4

**TYPICAL EXTERIOR ELEVATIONS FOR SINGLE
& DOUBLE DOOR W/ TRANSOM**

SCALE: N.T.S.



Signature of Walter A. Tillit Jr.
10/20/2024

P.E. SEAL/SIGNATURE/DATE

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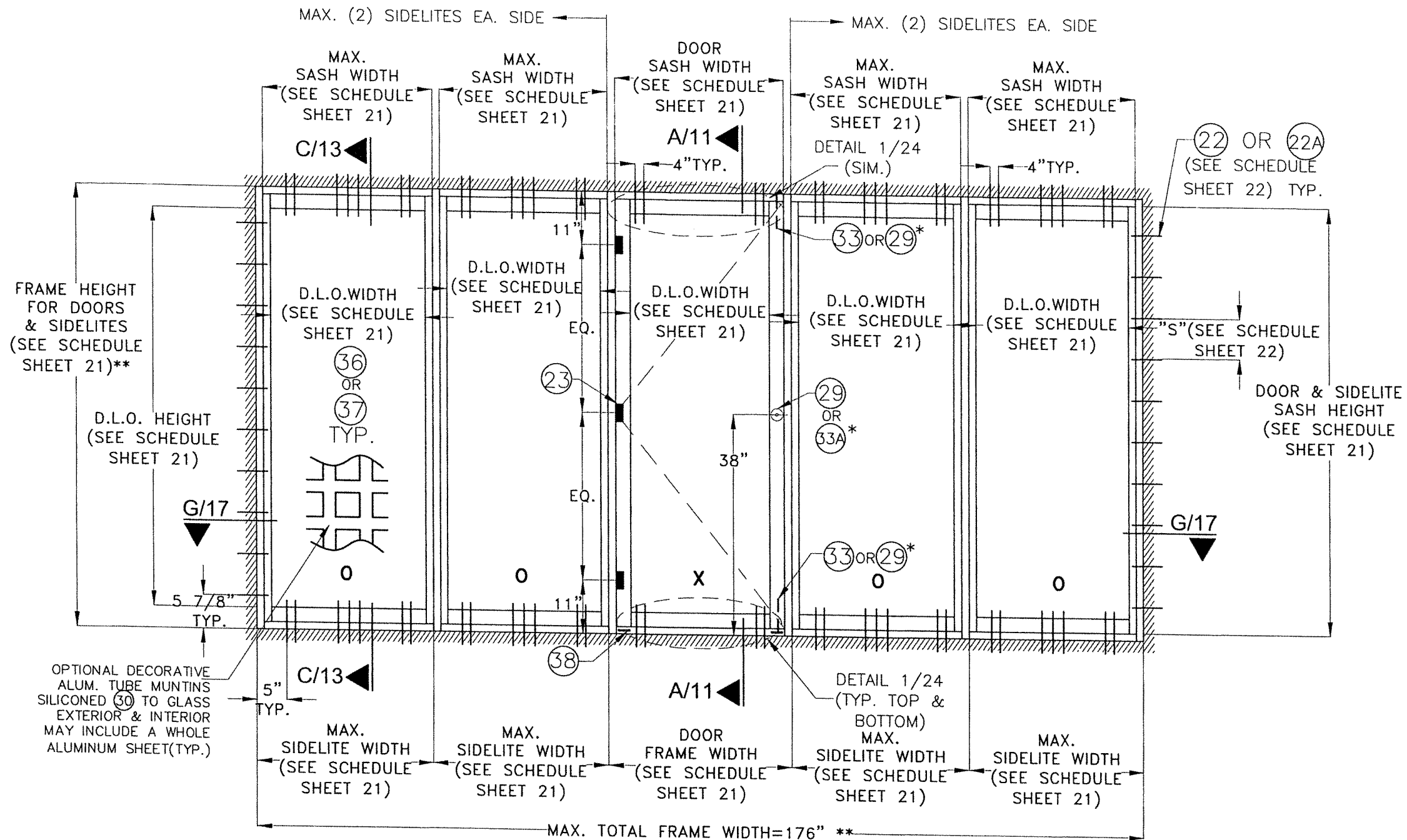
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SHEET 6 OF 24

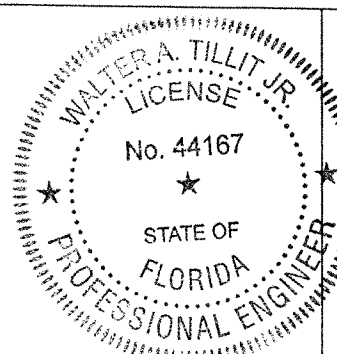


TYPICAL EXTERIOR ELEVATION OF SINGLE DOOR W/ SIDELITES

SCALE:N.T.S

* SEE SCHEDULE ON SHEET 4

** MAX. TOTAL FRAME AREA SHALL NOT EXCEED 122.2 FT²



Walter A. Tillit Jr.
10/29/2024

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)

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

SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH
DOOR W/wo TRANSOM OR SIDELITES.

W.H
DRAWN BY:

**ALUMINEX WINDOWS
& DOORS, LLC.**

07/17/2024
DATE:

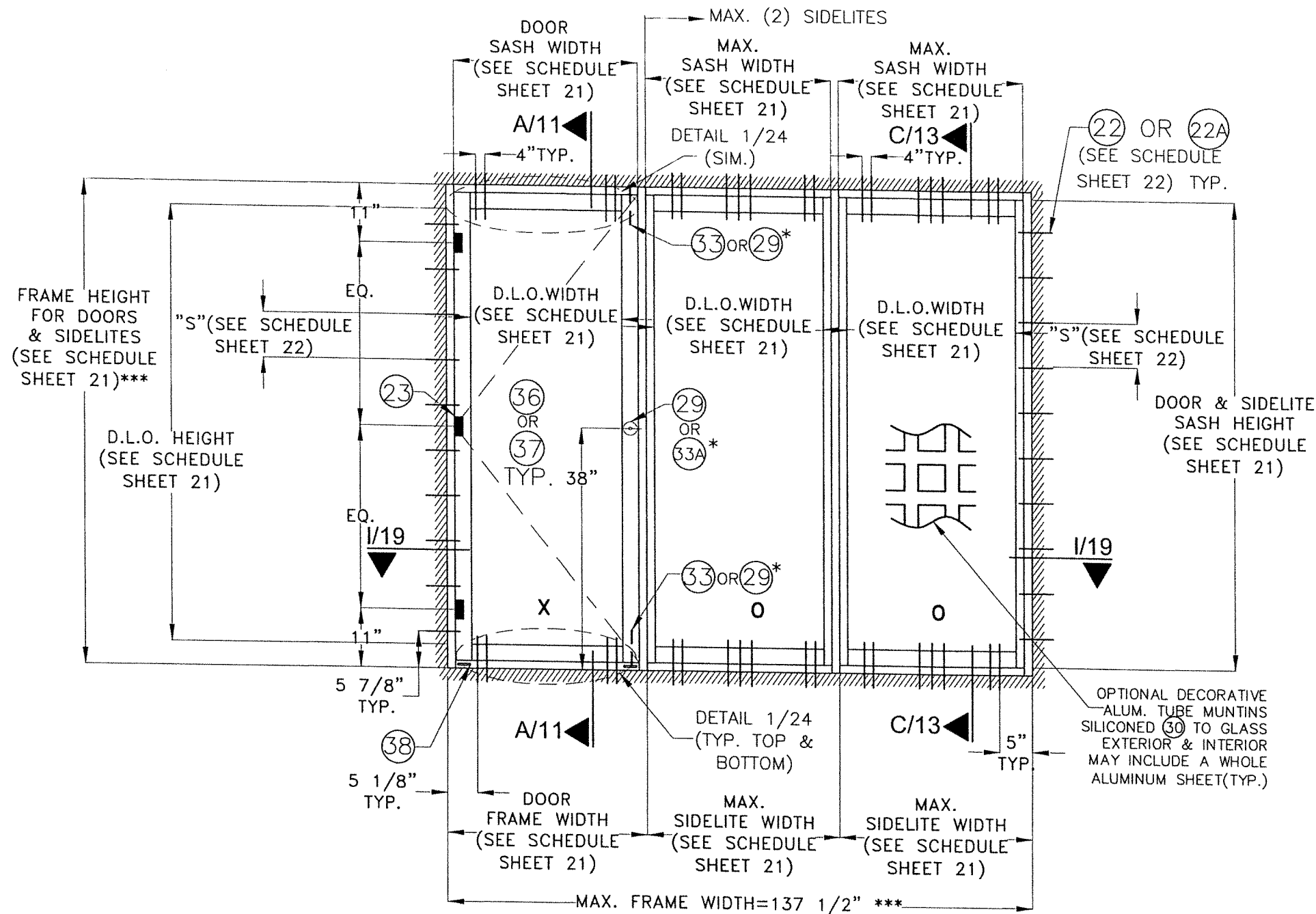
6333 NW 74 AVE.,
MIAMI, FL 33166
PH: (786) 222-0427, FAX: (305) 428-3011

24-078

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	10/28/24	3	-	-
2	-	-	4	-	-

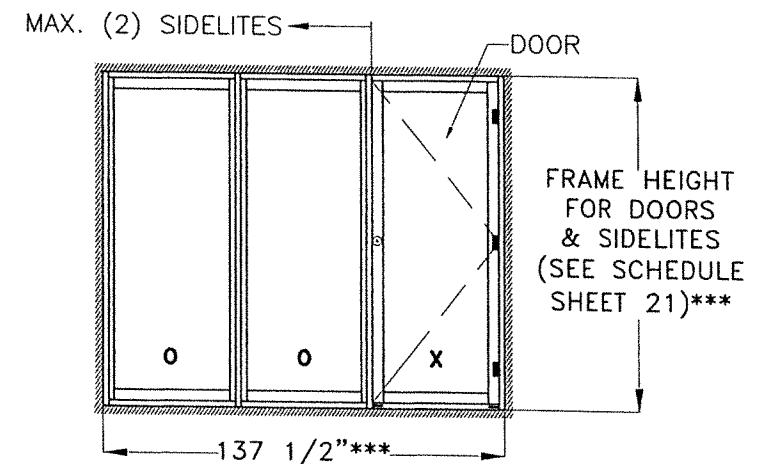
DRAWING No.

SHEET 7 of 24



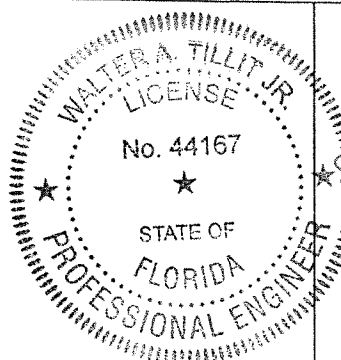
TYPICAL EXTERIOR ELEVATION OF SINGLE DOOR W/ SIDELITES **

SCALE: N.T.S



** QUALIFIES MIRROR CONFIGURATION TOO.

* SEE SCHEDULE ON SHEET 4
*** MAX. TOTAL FRAME AREA SHALL NOT EXCEED 95.5 FT²



Walter A. Tillit Jr.
10/29/2024

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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH
DOOR W/NO TRANSOM OR SIDELITES.

W.H
DRAWN BY:

ALUMINEX WINDOWS
& DOORS, LLC.

07/17/2024
DATE:

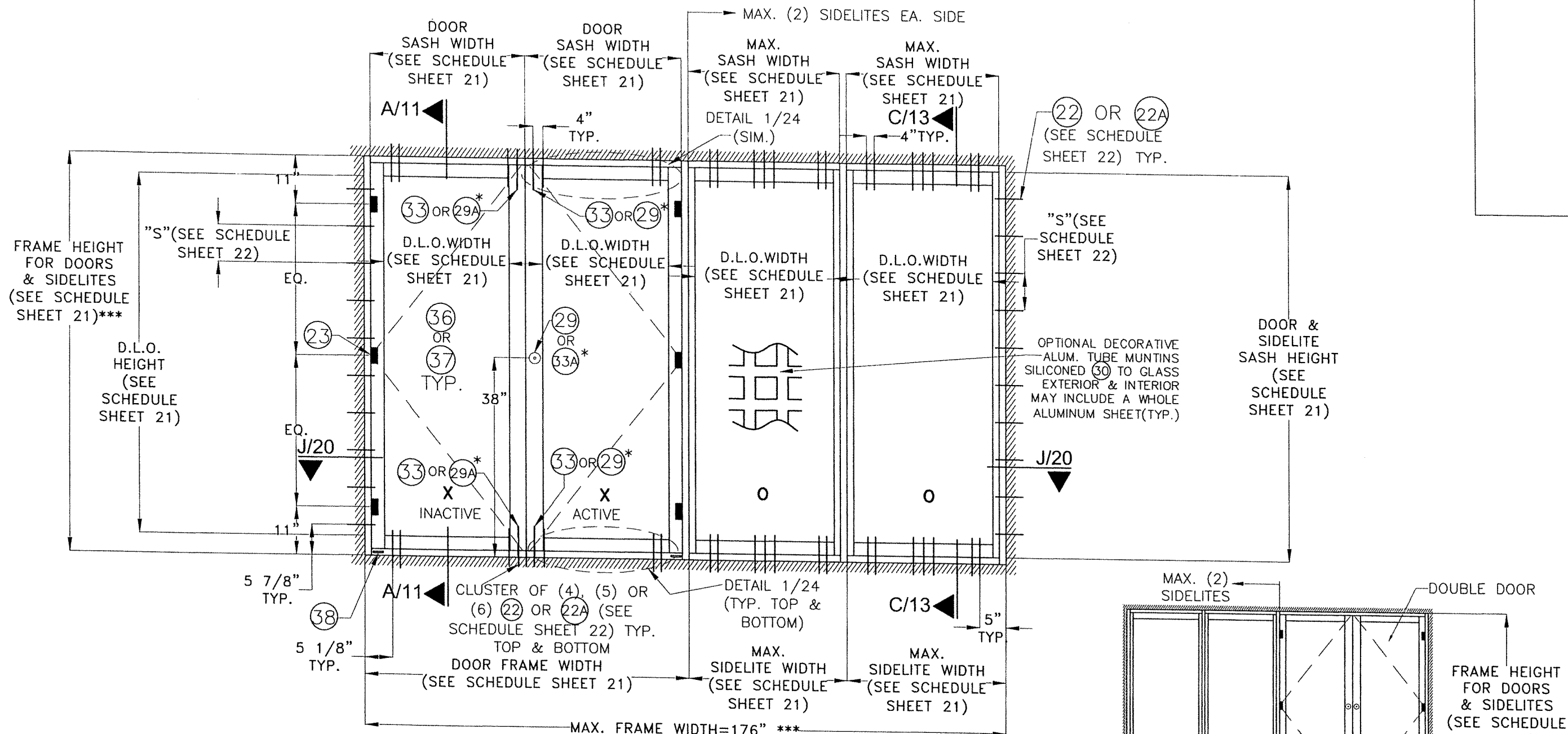
6333 NW 74 AVE.,
MIAMI, FL 33166
PH: (786) 222-0427, FAX: (305) 428-3011

24-078

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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DRAWING No.

SHEET 9 of 24

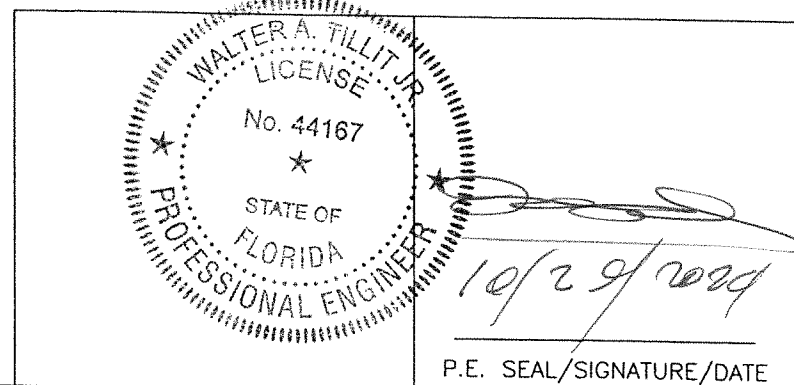


**TYPICAL EXTERIOR ELEVATION OF
DOUBLE DOOR W/ SIDELITES ****

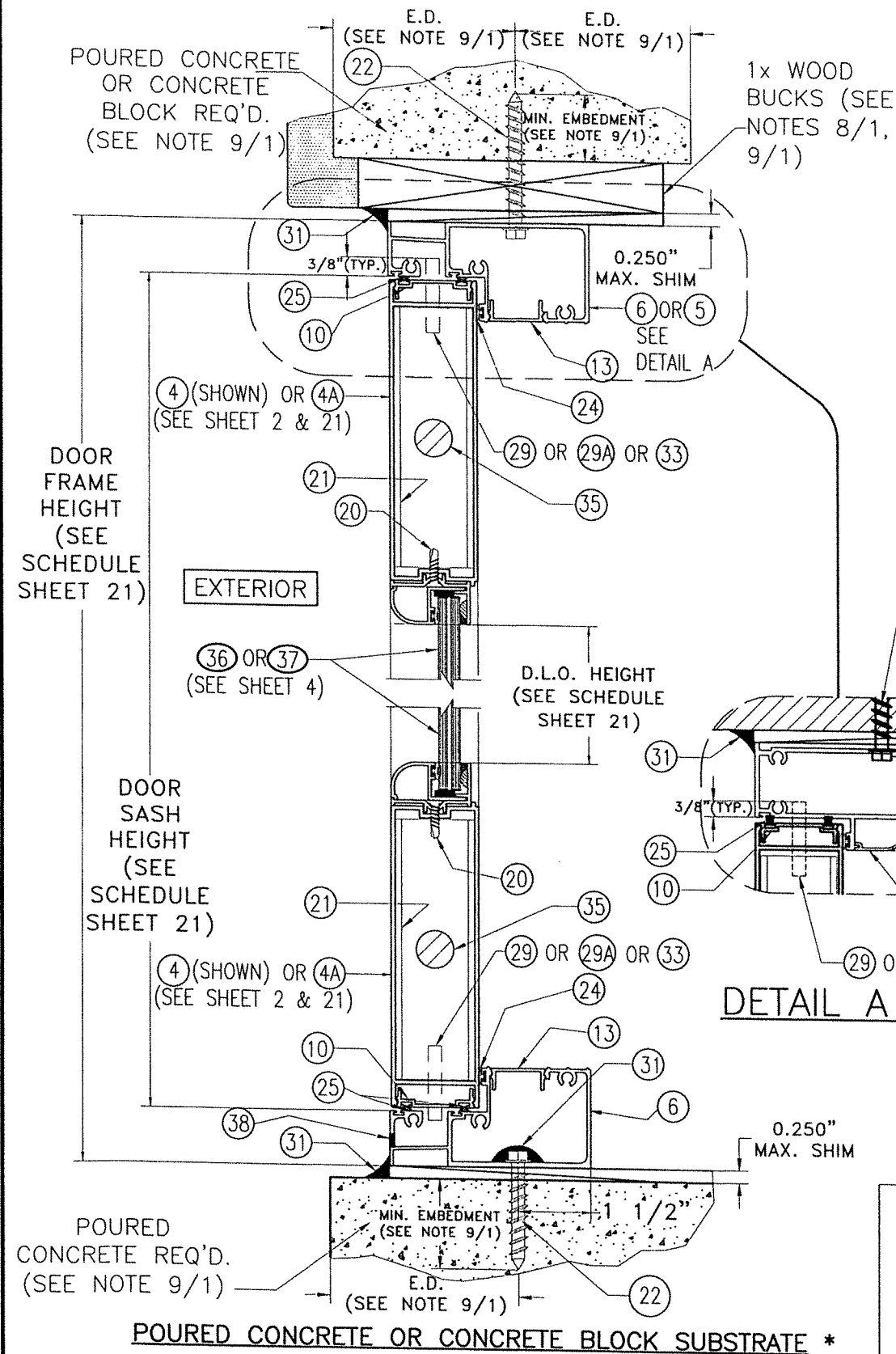
SCALE: N.T.S.

** QUALIFIES MIRROR CONFIGURATION TOO.

* SEE SCHEDULE ON SHEET 4
*** MAX. TOTAL FRAME AREA SHALL NOT EXCEED 122.2 FT²



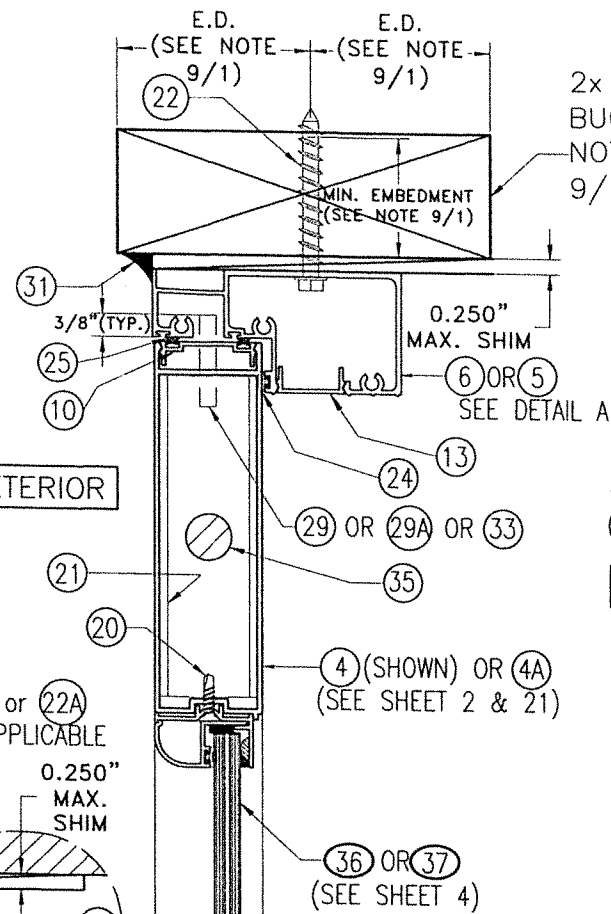
FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
© 2024 TILTECO, INC.					
TILTECO INC.					
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167					
SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/NO TRANSOM OR SIDELITES.				W.H DRAWN BY:	
ALUMINEX WINDOWS & DOORS, LLC.				07/17/2024 DATE:	
6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011				24-078 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	10/28/24	3	-	-
2	-	-	4	-	-



1x WOOD
BUCKS (SEE
NOTES 8/1,
9/1)

EXTERIOR

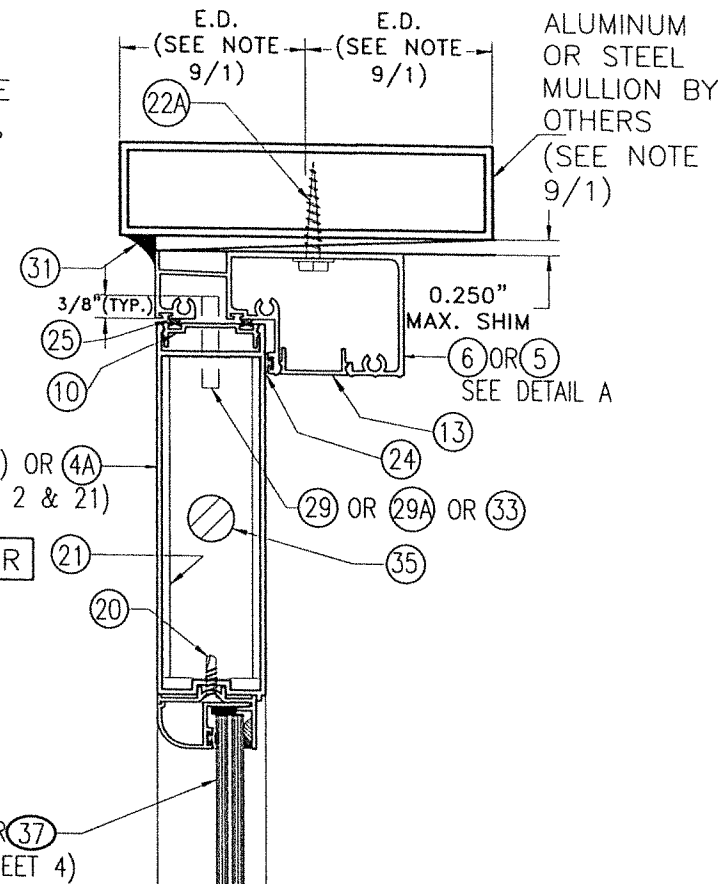
DETAIL A (TYP.)



WOOD SUBSTRATE *

2x WOOD
BUCKS (SEE
NOTES 8/1,
9/1)

EXTERIOR

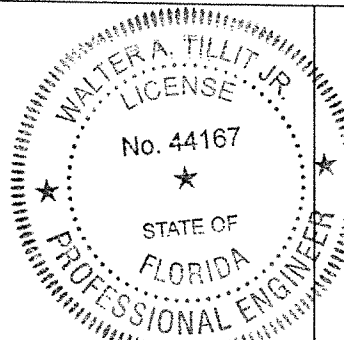


ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE *

SECTION A-A @ DOOR

SCALE: 3/8"=1"

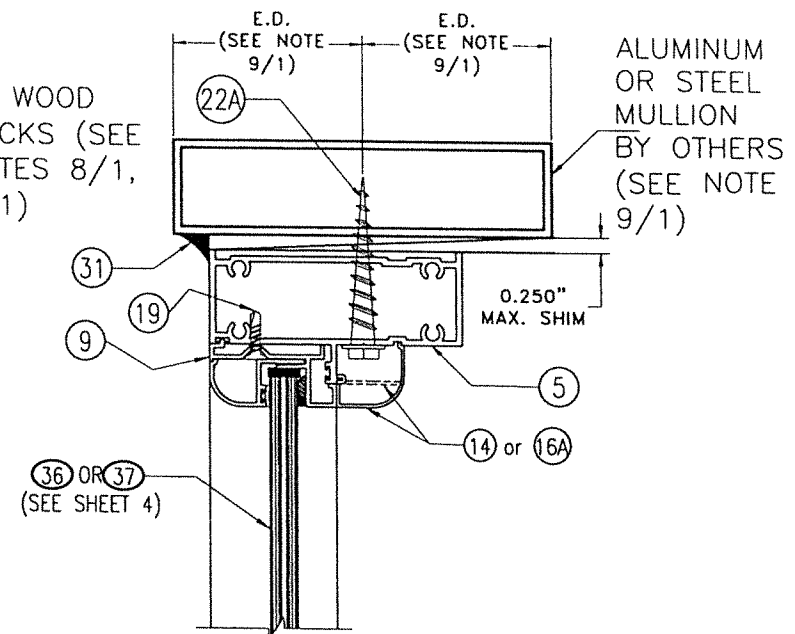
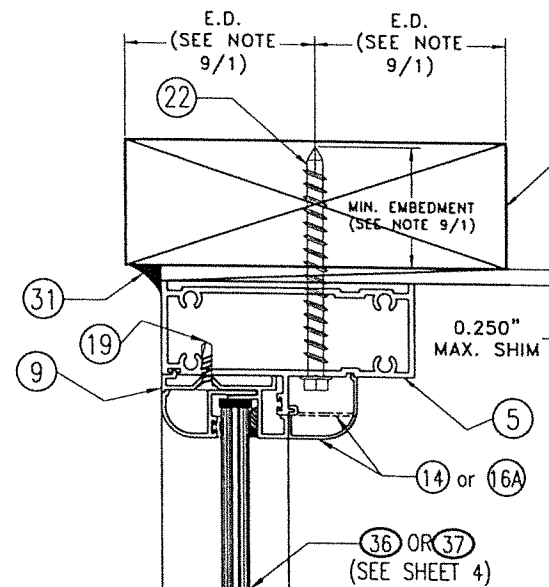
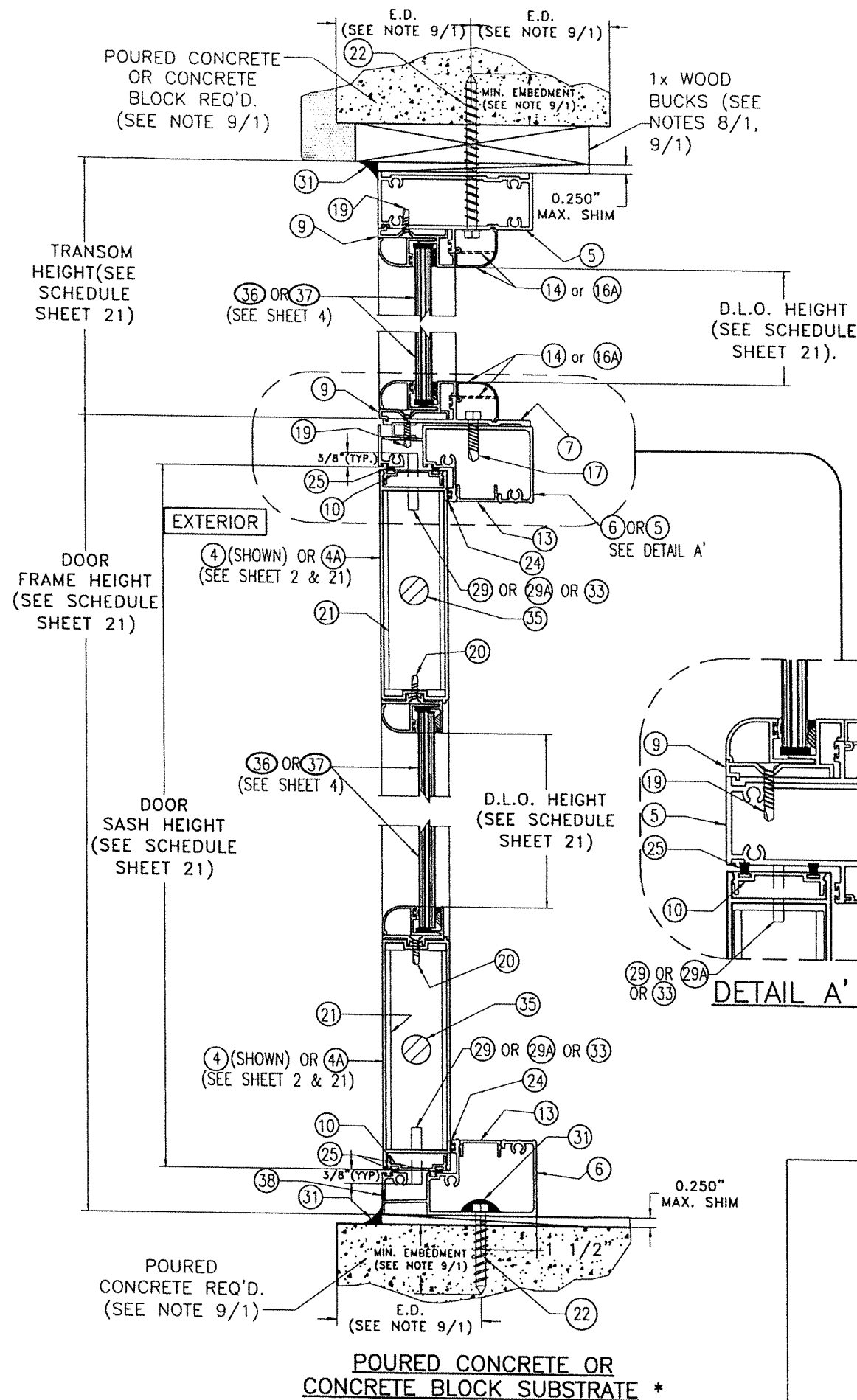
* TOP & BOTTOM MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT TOP OR BOTTOM. IN CASE THAT ALUMINUM OR STEEL MULLION WAS USED AT SILL, BUILDING OFFICIAL MUST VERIFY ITS STRUCTURAL ADEQUACY.



Walter A. Tillit Jr.
10/22/2024

P.E. SEAL/SIGNATURE/DATE

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					24-078 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-
					SHEET 11 of 24



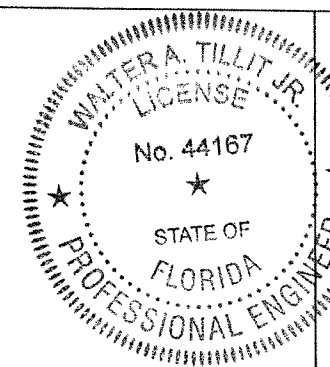
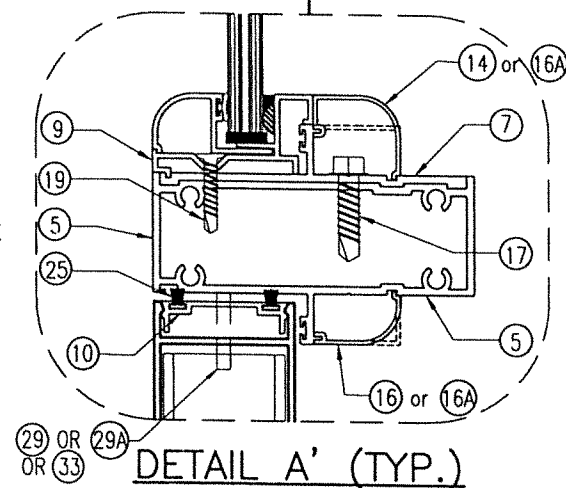
WOOD SUBSTRATE *

ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *

* TOP & BOTTOM MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT TOP OR BOTTOM. IN CASE THAT ALUMINUM OR STEEL MULLION WAS USED AT SILL, BUILDING OFFICIAL MUST VERIFY ITS STRUCTURAL ADEQUACY.

SECTION B-B @ DOOR W/ TRANSOM

SCALE: 1/4"=1"



10/29/2024
P.E. SEAL/SIGNATURE/DATE

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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/wo TRANSOM OR SIDELITES.

W.H
DRAWN BY:

ALUMINEX WINDOWS & DOORS, LLC.

6333 NW 74 AVE.,
MIAMI, FL 33166

PH: (786) 222-0427, FAX: (305) 428-3011

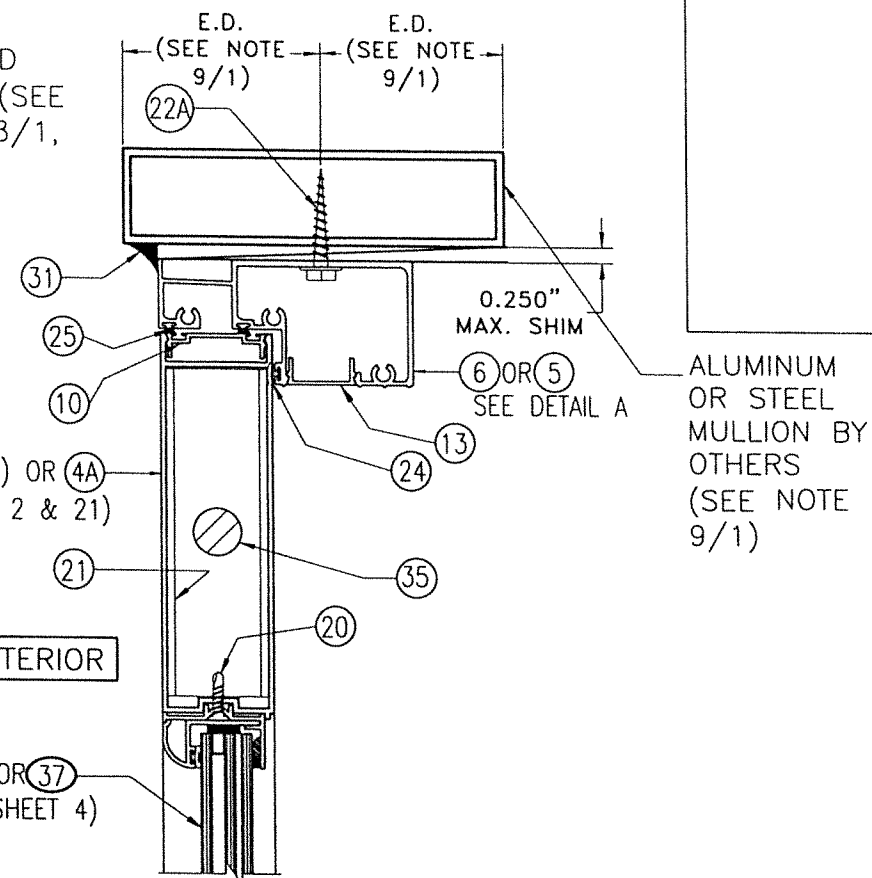
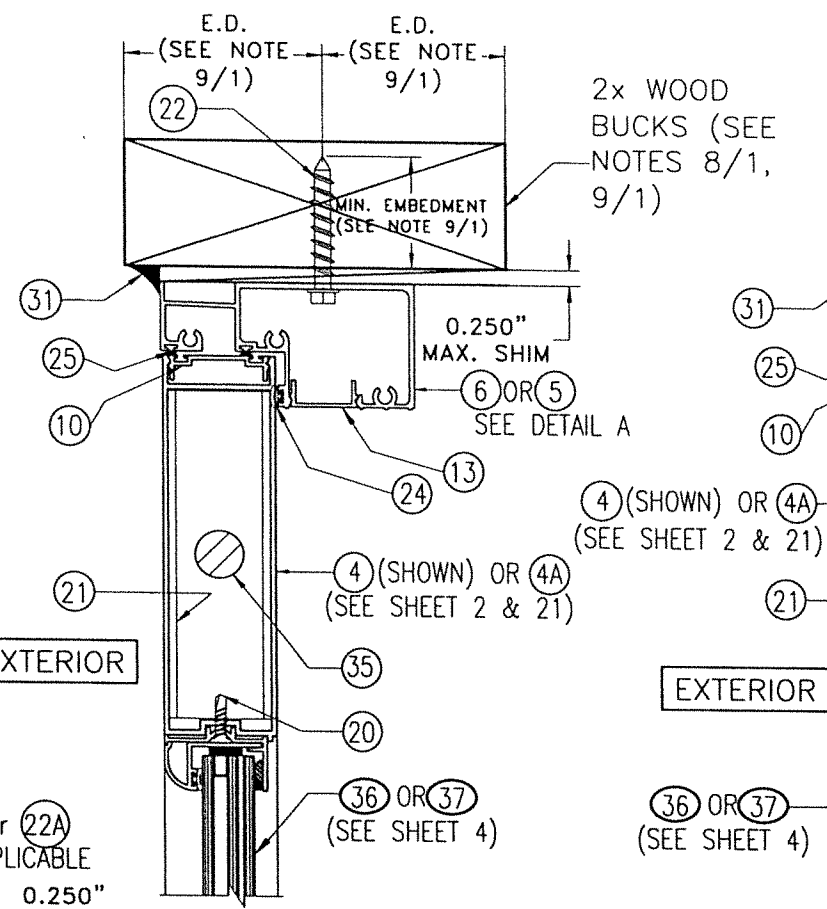
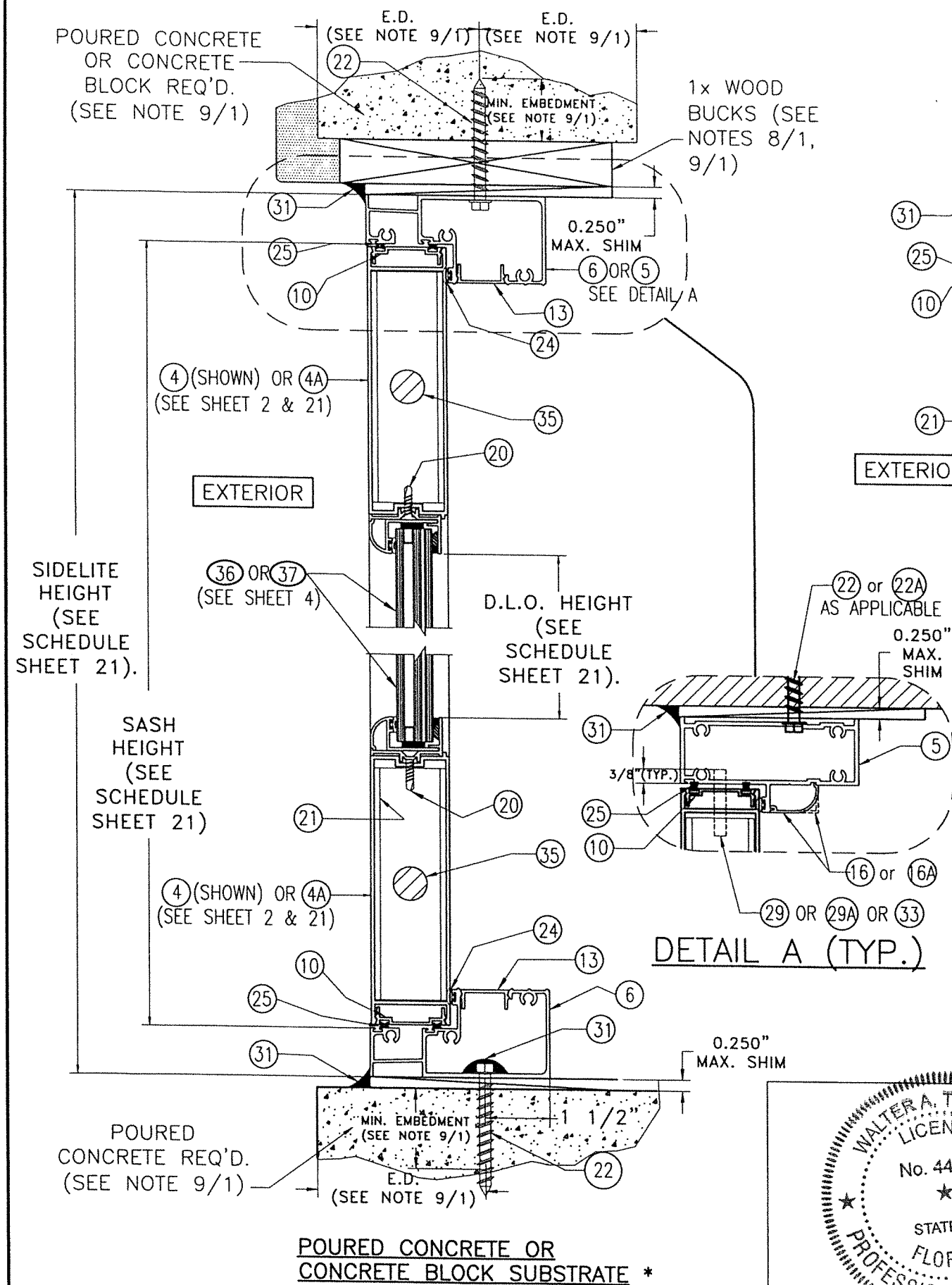
07/17/2024
DATE:

24-078

DRAWING No.

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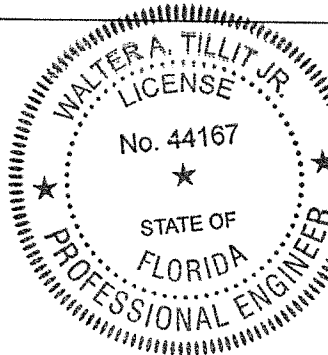
SHEET 12 of 24



SECTION C-C @ SIDELITES

SCALE: 3/8"=1"

* TOP & BOTTOM MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT TOP OR BOTTOM. IN CASE THAT ALUMINUM OR STEEL MULLION WAS USED AT SILL, BUILDING OFFICIAL MUST VERIFY ITS STRUCTURAL ADEQUACY.



10/29/2020
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/NO TRANSOM OR SIDELITES.

W.H
DRAWN BY:

ALUMINEX WINDOWS & DOORS, LLC.

07/17/2024
DATE:

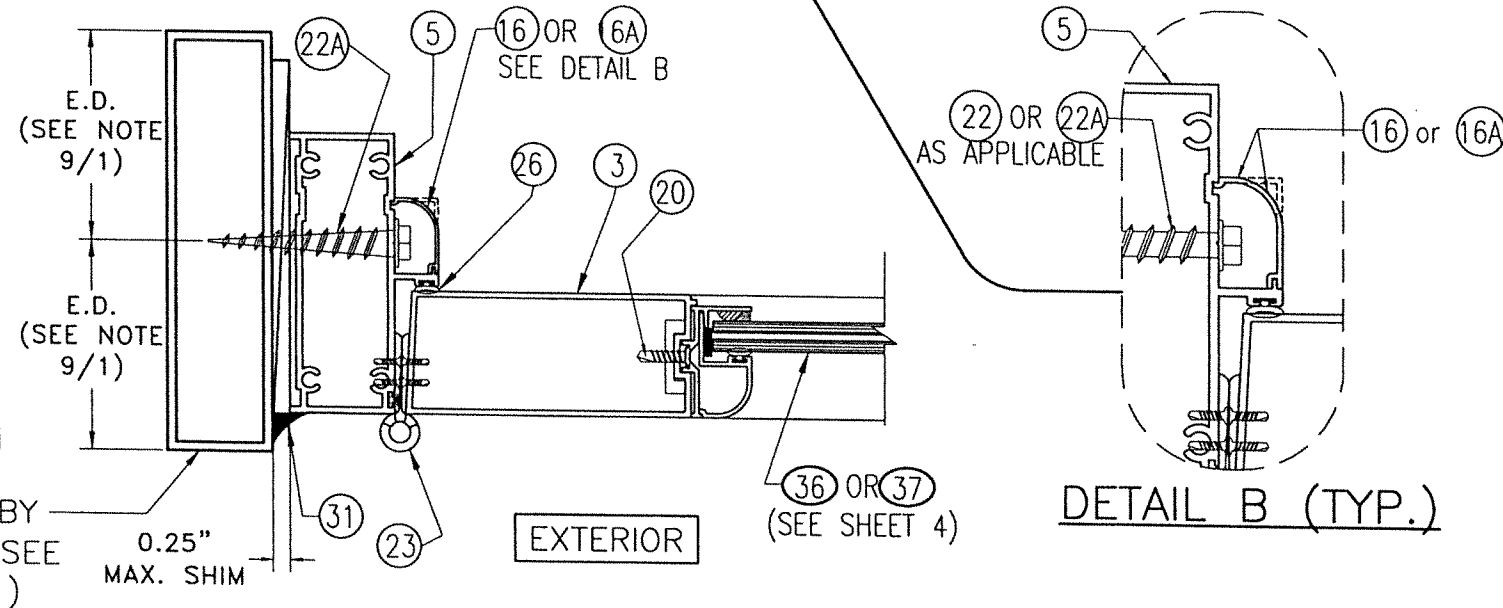
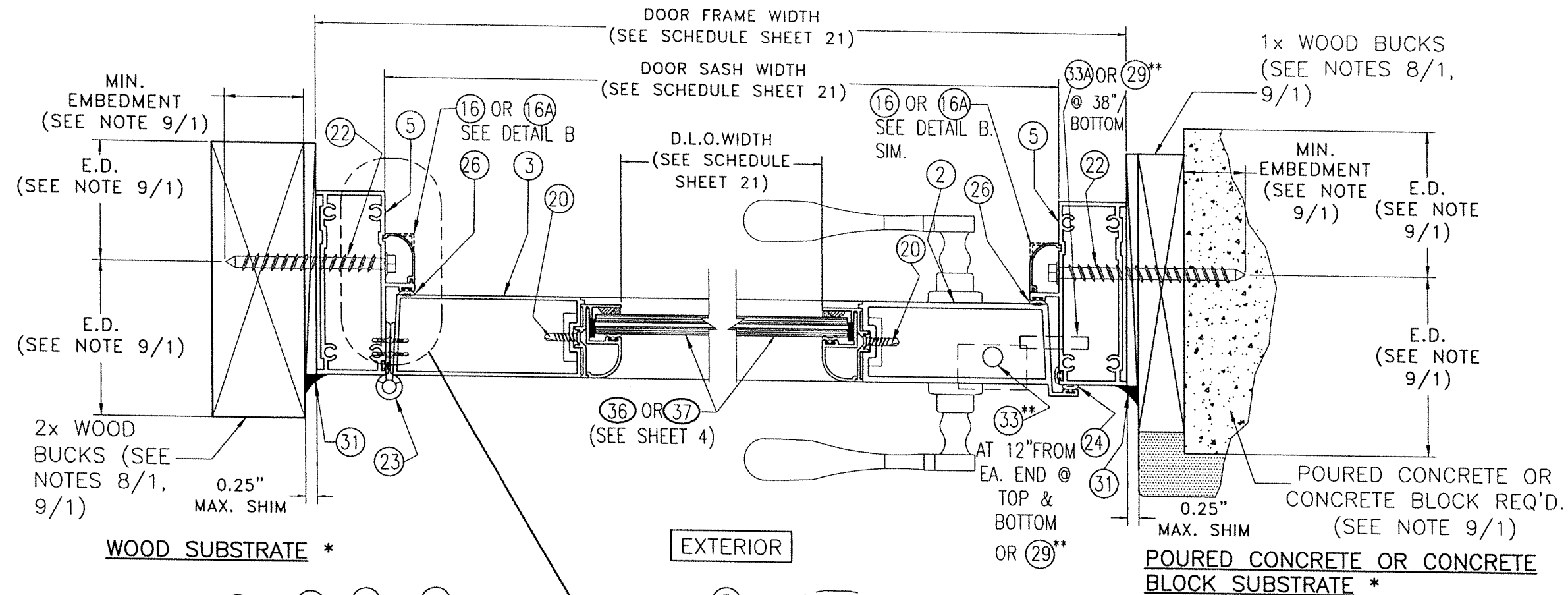
6333 NW 74 AVE.,
MIAMI, FL 33166
PH: (786) 222-0427, FAX: (305) 428-3011

24-078

DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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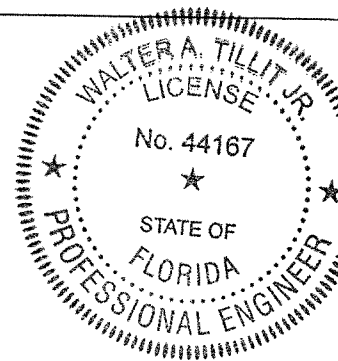
SHEET 13 OF 24



* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.

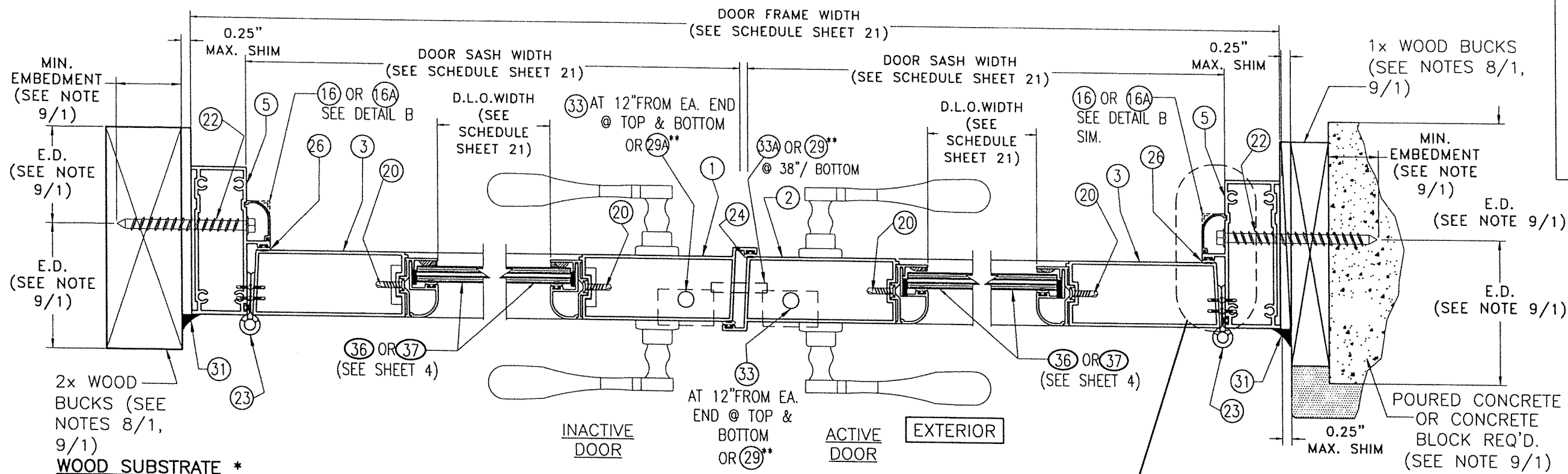
SECTION D-D @ SINGLE DOOR SCALE: 3/8"=1"



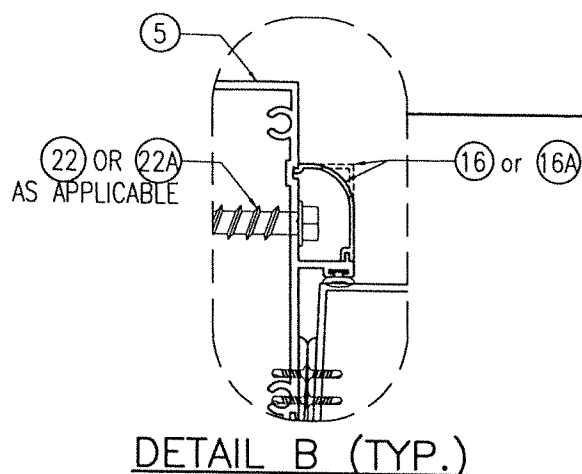
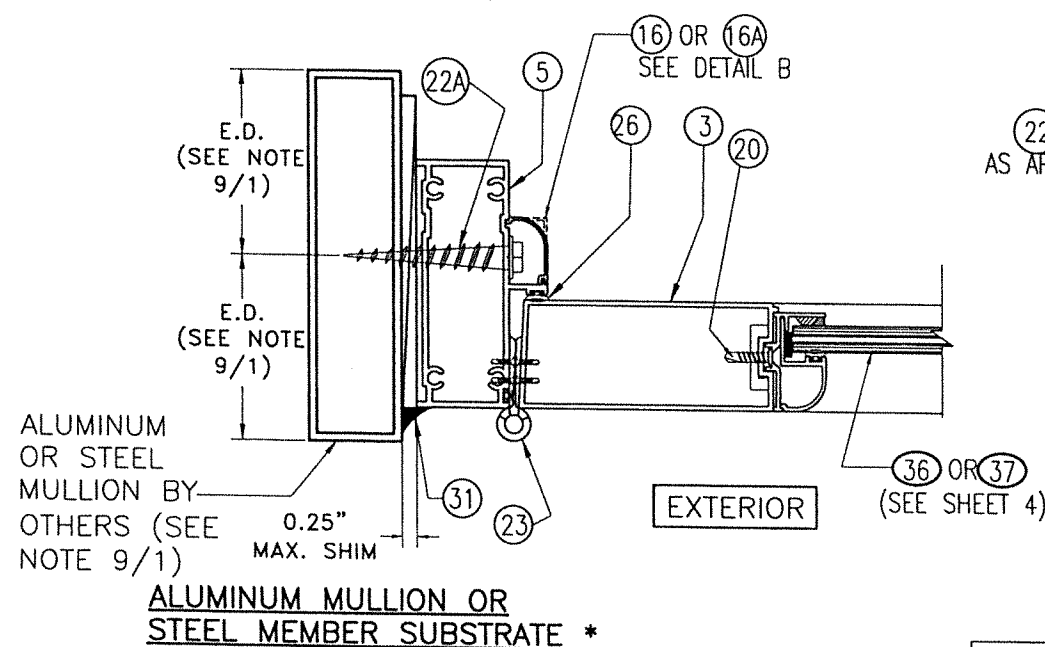
10/29/2024

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
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			ALUMINEX WINDOWS & DOORS, LLC. 6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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DRAWING No. 24-078					SHEET 14 OF 24



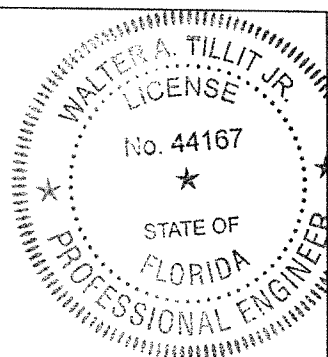
**POURED CONCRETE
OR CONCRETE
BLOCK SUBSTRATE ***



* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.

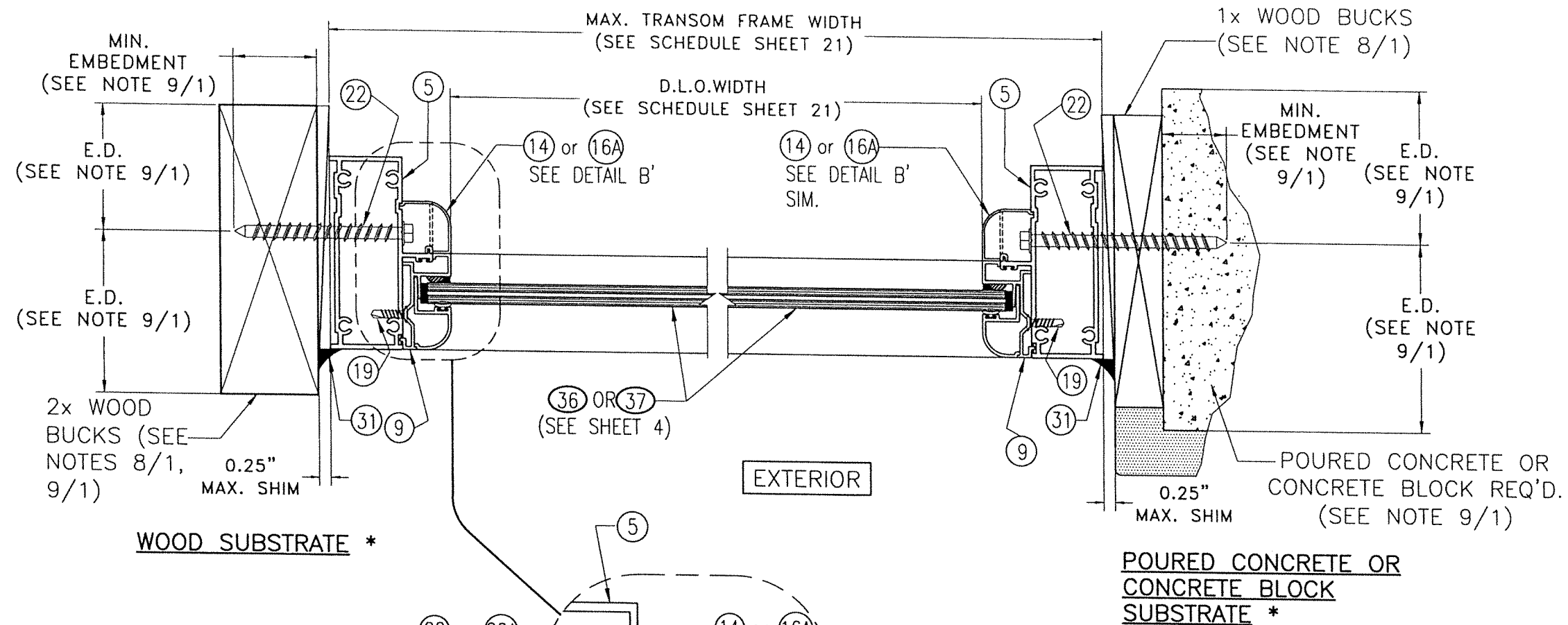
SECTION E-E @ DOUBLE DOOR
SCALE: 3/8"=1"



Walter A. Tillit Jr.
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)

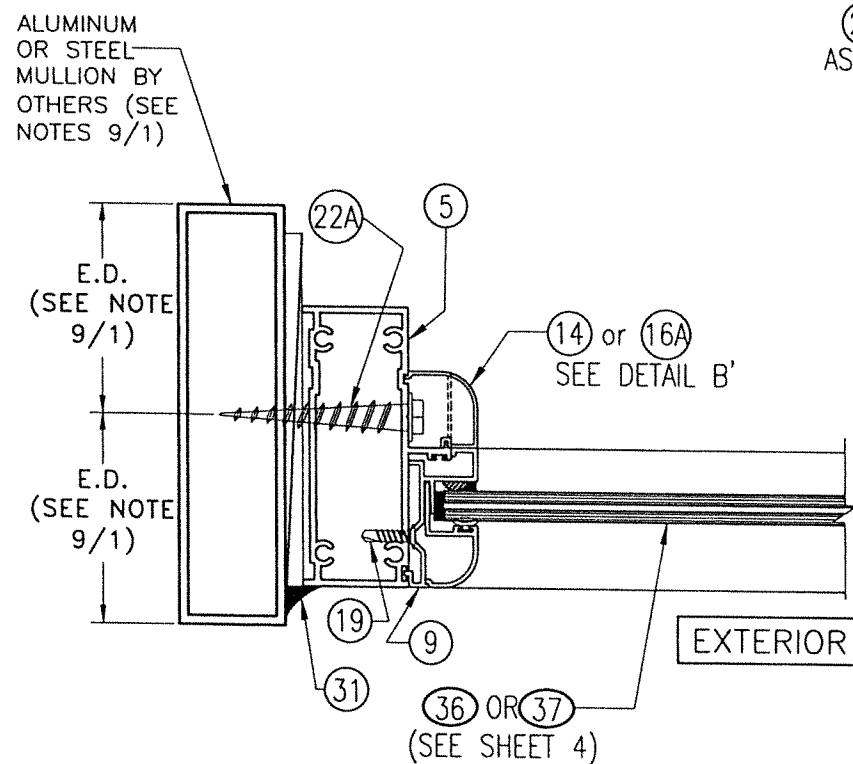
© 2024 TILTECO, INC.		SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES.		W.H. DRAWN BY:	
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		6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011		DATE:	
				24-078	
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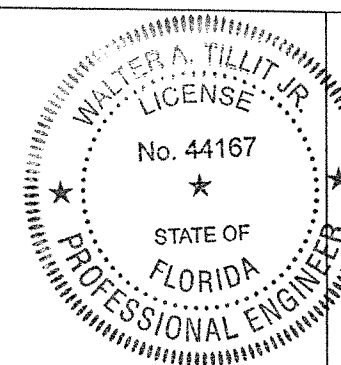
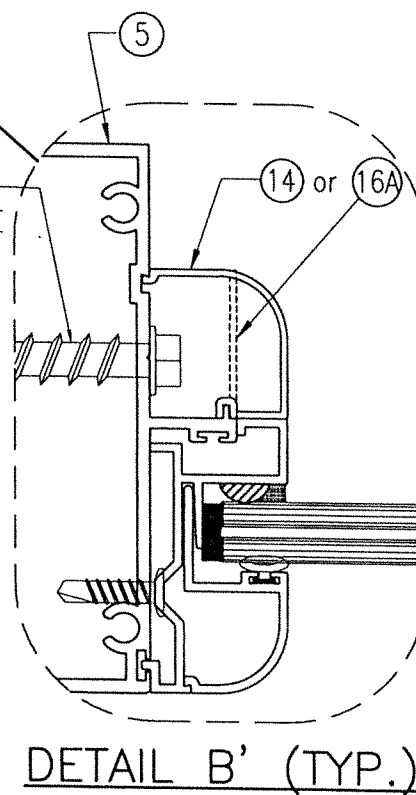
* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

SECTION F-F @ TRANSOM

SCALE: 3/8"=1"



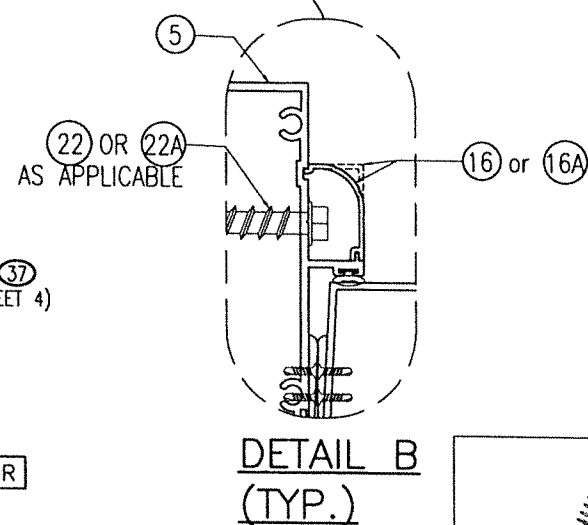
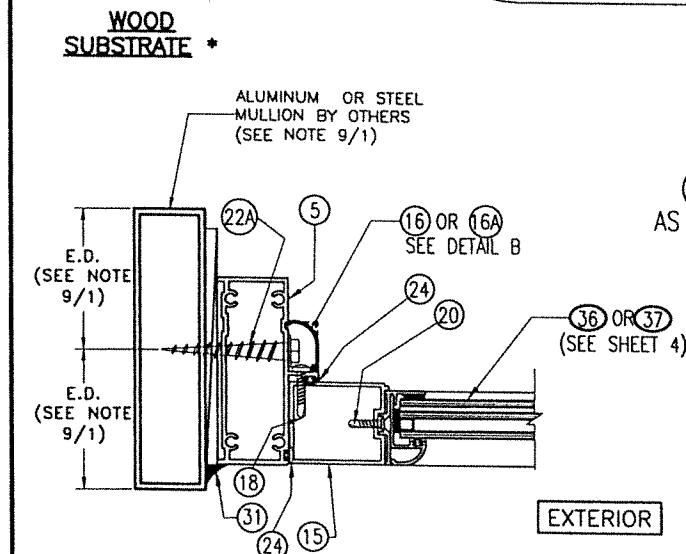
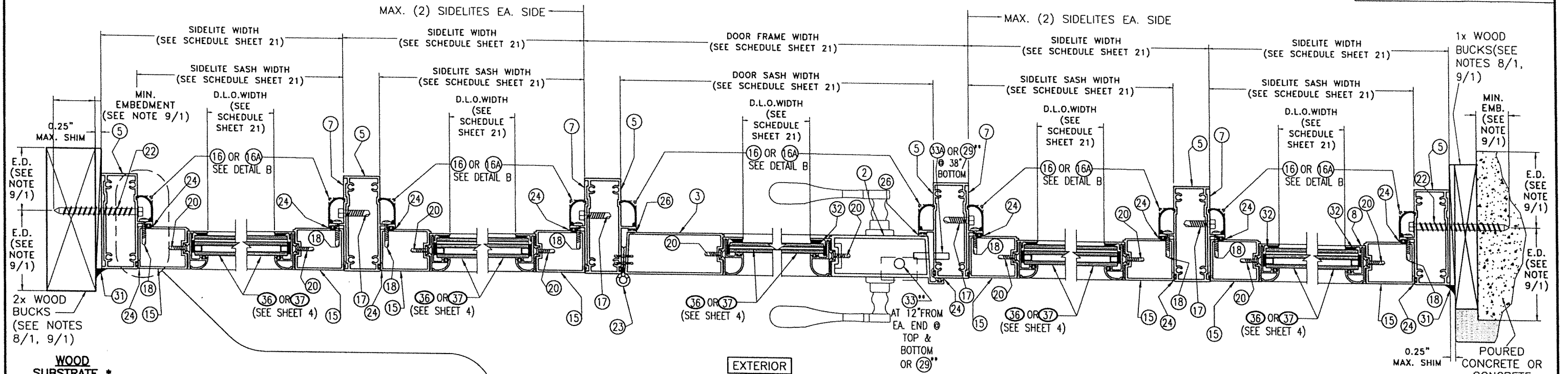
ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *



10/20/2024

P.E. SEAL/SIGNATURE/DATE

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TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			ALUMINEX WINDOWS & DOORS, LLC.		07/17/2024 DATE:
			6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011		24-078 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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** SEE SCHEDULE ON SHEET 4.

POURED CONCRETE OR CONCRETE BLOCK REQ'D. (SEE NOTE 9/1)

POURED CONCRETE OR CONCRETE BLOCK SUBSTRATE *

SECTION G-G SINGLE DOOR W/ SIDELITES

SCALE: 1/4"=1"

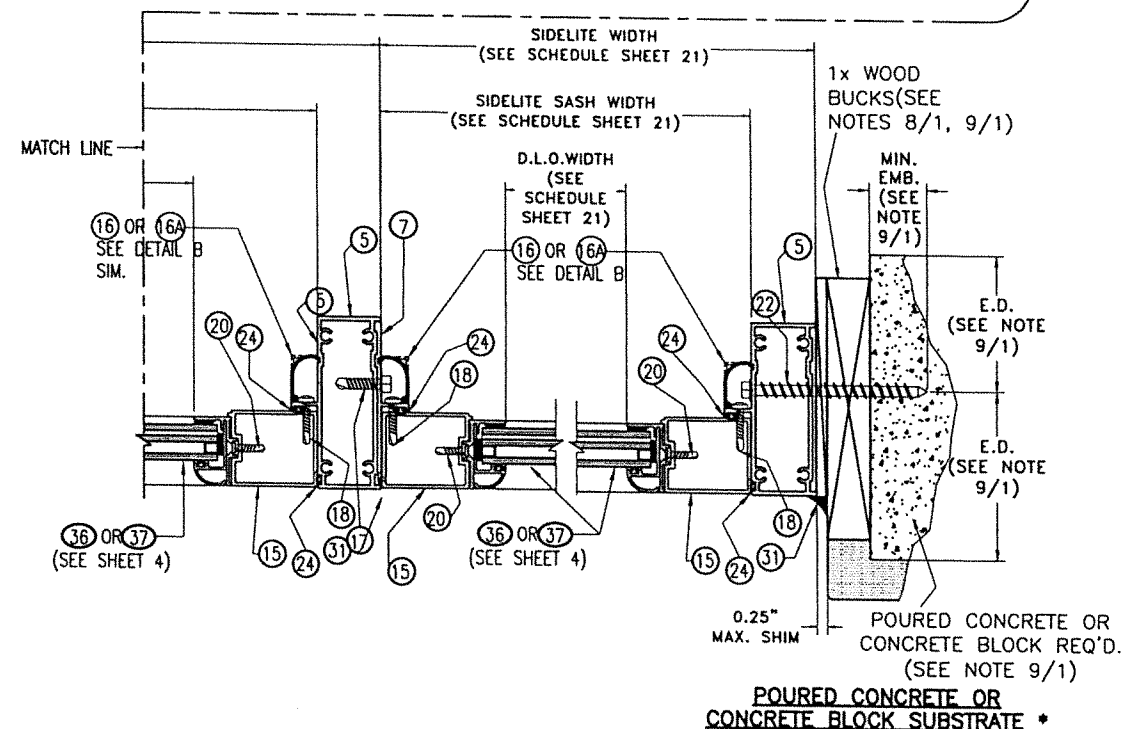
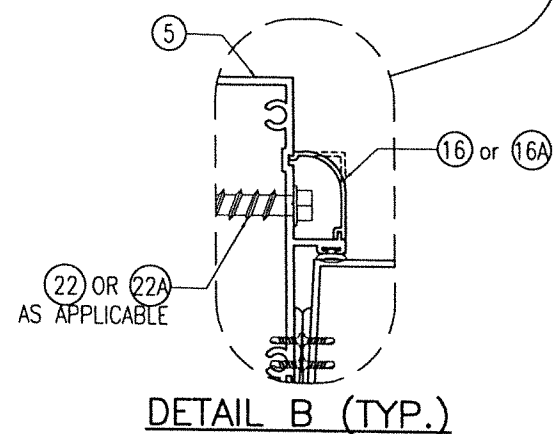
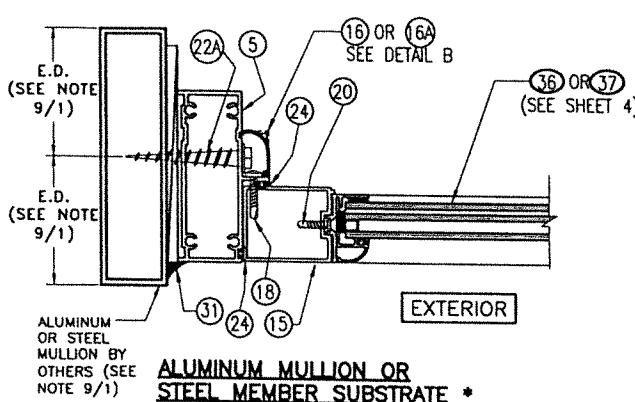
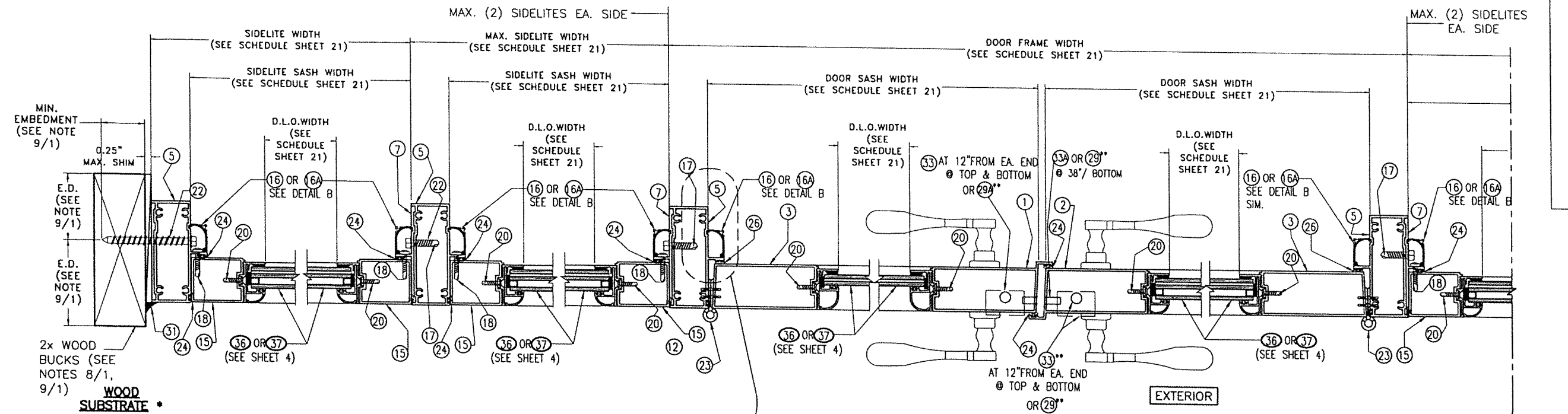
ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

10/2/2024

P.E. SEAL/SIGNATURE/DATE

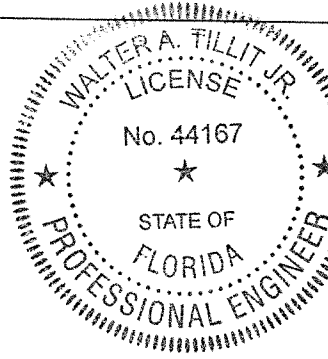
FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
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			24-078		DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	10/28/24	3	-	-
2	-	-	4	-	-



* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.

SECTION H-H DOUBLE DOOR W/ SIDELITES SCALE: N.T.S



10/29/2024

P.E. SEAL/SIGNATURE/DATE

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			6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011		07/17/2024 DATE:
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
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DRAWING No.					24-078
SHEET 18 OF 24					

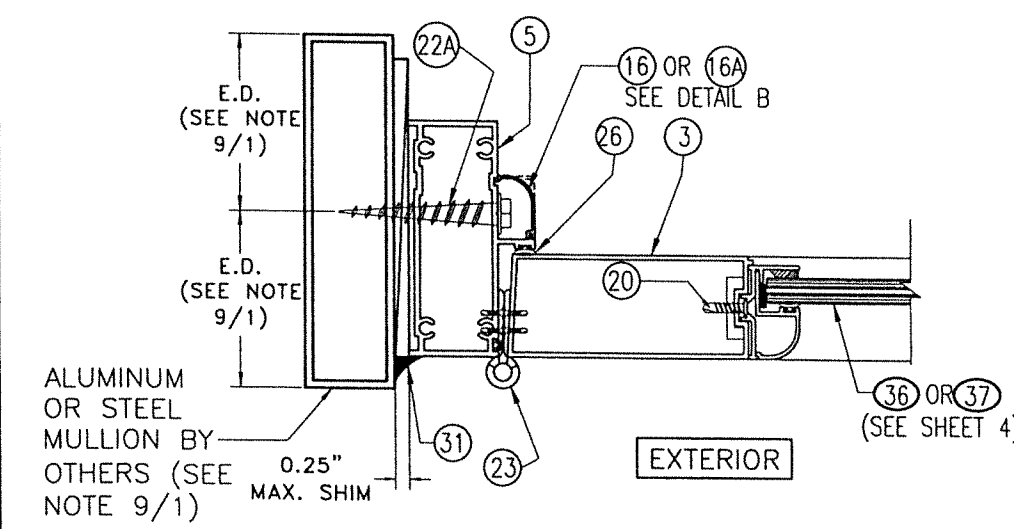


FIG. 10 is a cross-sectional view of a portion of the device, showing a vertical assembly. A dashed line indicates a section cut. A screw (22) or (22A) is shown passing through a component (16) or (16A) into a base. A label "5" points to a top flange, and a label "16 or 16A" points to the component being secured. The text "AS APPLICABLE" is present.

** SEE SCHEDULE ON SHEET 4.

SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES.						W.H DRAWN BY:	
ALUMINEX WINDOWS & DOORS, LLC. 6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011						07/17/2024 DATE:	
						24-078	
						DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 19 of 24	
1	GENERAL	10/28/24	3	-	-		
2	-	-	4	-	-		

SINGLE & DOUBLE DOOR SCHEDULE ONLY VALID
FOR DOORS W/O TRANSOM AND W/O SIDELITE

MAX. ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH		MAX. DOOR FRAME HEIGHT		MAX. DOOR SASH WIDTH *	MAX. DOOR SASH HEIGHT		MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
	AT SINGLE DOOR	AT DOUBLE DOOR	DOORS W/ ④	DOORS W/ ④A		DOORS W/ ④	DOORS W/ ④A		
+45, -45 psf	3'-5 1/2"	6'-8"	10'-0"	9'-8"	3'-2 1/2"	9'-9 1/2"	9'-5 1/2"	2'-4"	8'-8"
+49, -49 psf	3'-5 1/2"	6'-8"	9'-8"	9'-4"	3'-2 1/2"	9'-5 1/2"	9'-1 1/2"	2'-4"	8'-4"
+54, -54 psf	3'-5 1/2"	6'-8"	9'-4"	9'-0"	3'-2 1/2"	9'-1 1/2"	8'-9 1/2"	2'-4"	8'-0"
+57, -57 psf	3'-5 1/2"	6'-8"	9'-0"	8'-8"	3'-2 1/2"	8'-9 1/2"	8'-5 1/2"	2'-4"	7'-8"
+60, -60 psf	3'-5 1/2"	6'-8"	8'-8"	8'-4"	3'-2 1/2"	8'-5 1/2"	8'-1 1/2"	2'-4"	7'-4"
+70, -70 psf	3'-5 1/2"	6'-8"	8'-4"	8'-0"	3'-2 1/2"	7'-7 5/8"	7'-3 5/8"	2'-4"	7'-0"

* DOOR SASH WIDTHS MAY BE DIFFERENT FROM EACH OTHER WHEN DOUBLE DOORS ARE USED.

SINGLE & DOUBLE DOOR SCHEDULE VALID
FOR DOORS W/ TRANSOM OR W/ SIDELITE

MAX. ASD DESIGN PRESSURE RATING +70, -70 psf	MAX. FRAME WIDTH	MAX. FRAME HEIGHT		MAX. SASH WIDTH	MAX. SASH HEIGHT		MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
		DOORS W/ ④	DOORS W/ ④A		DOORS W/ ④	DOORS W/ ④A		
AT SINGLE DOOR	3'-5 1/2"	8'-4"	8'-0"	3'-2 1/2"	7'-7 5/8"	7'-3 5/8"	2'-4"	7'-0"
AT DOUBLE DOOR	6'-8"	8'-4"	8'-0"	3'-2 1/2"	7'-7 5/8"	7'-3 5/8"	2'-4"	7'-0"
AT SIDELITE	4'-0"	8'-4"	8'-0"	3'-10 1/2"	7'-7 5/8"	7'-3 5/8"	3'-4"	7'-0"
AT SINGLE DOOR TRANSOM	3'-5 1/2"	4'-0"	4'-0"	-	-	-	3'-0 1/2"	3'-7"
AT DOUBLE DOOR TRANSOM	6'-8"	4'-0"	4'-0"	-	-	-	6'-3"	3'-7"

WALTER A. TILLIT JR.

LICENSE

No. 44167

★

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

10/28/2024

P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH
DOOR W/wo TRANSOM OR SIDELITES.

ALUMINEX WINDOWS
& DOORS, LLC.

6333 NW 74 AVE.,
MIAMI, FL 33166
PH: (786) 222-0427, FAX: (305) 428-3011

W.H
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07/17/2024
DATE:

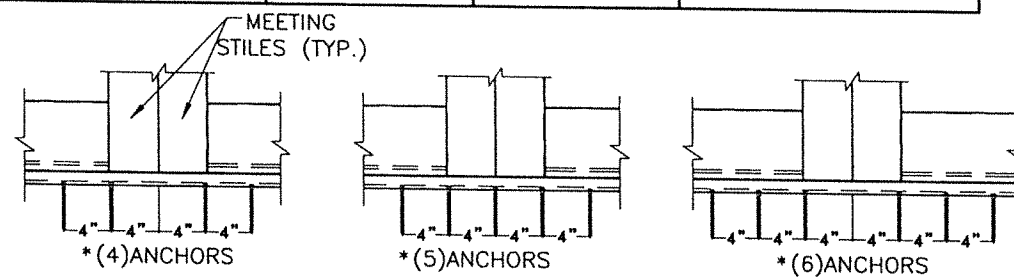
24-078
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	10/28/24	3	-	-
2	-	-	4	-	-

SHEET 21 of 24

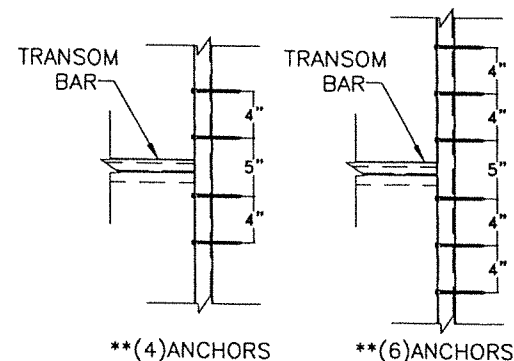
REQ'D NUMBER OF ANCHORS & CORRESPONDING ASD
DESIGN PRESSURE RATING AT HEAD/SILL: CLUSTER OF
ANCHORS AT DOUBLE DOOR, AT MEETING STILES *

ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH	MAX. DOOR FRAME HEIGHT	SUBSTRATE
			CONCRETE, BLOCK, WOOD, ALUM., STEEL
+45, -45 psf	6'-8"	8'-4"	4 ANCHORS
+45, -45 psf	6'-8"	10'-0"	5 ANCHORS
+49, -49 psf	6'-8"	9'-8"	5 ANCHORS
+54, -54 psf	6'-8"	9'-4"	6 ANCHORS
+57, -57 psf	6'-8"	9'-0"	6 ANCHORS
+60, -60 psf	6'-8"	8'-8"	6 ANCHORS
+70, -70 psf	6'-8"	8'-4"	6 ANCHORS



REQ'D NUMBER OF ANCHORS AT CLUSTER OF ANCHORS AT ENDS OF TRANSOM
BAR WITH DOUBLE DOOR & CORRESPONDING ASD DESIGN PRESSURE RATING **

ASD DESIGN PRESSURE RATING	MAX. TRANSOM WIDTH	MAX. DOOR FRAME HEIGHT	TRANSOM HEIGHT	SUBSTRATE
				CONCRETE, BLOCK, WOOD, ALUM., STEEL
+45, -45 psf	6'-8"	8'-4"	2'-0"	4 ANCHORS
			3'-0"	4 ANCHORS
			4'-0"	4 ANCHORS
+55, -55 psf	6'-8"	8'-4"	2'-0"	4 ANCHORS
			3'-0"	4 ANCHORS
			4'-0"	6 ANCHORS
+70, -70 psf	6'-8"	8'-4"	2'-0"	4 ANCHORS
			3'-0"	4 ANCHORS
			4'-0"	6 ANCHORS

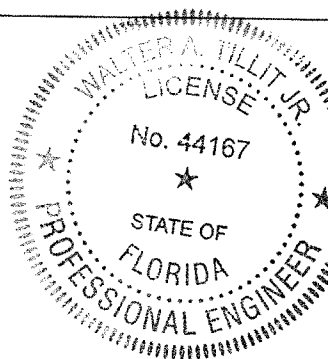
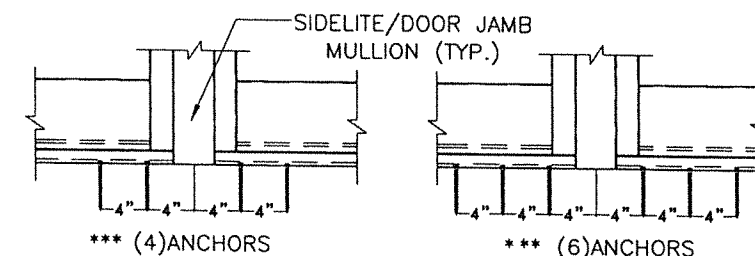


MAXIMUM ANCHOR SPACING "S" & CORRESPONDING ASD DESIGN PRESSURE RATING SCHEDULE AT JAMBS OF DOOR, SIDELITE & TRANSOM

SUBSTRATE	ANCHOR TYPE	A.S.D. DESIGN PRESSURE RATING (psf)	"S"
CONCRETE	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
BLOCK	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
WOOD	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
ALUMINUM TUBE OR STEEL MEMBER	1/4"Ø-14 ITW/BUILDEX TEK SCREW (22A)	+70.0, -70.0	11" O.C.

REQ'D NUMBER OF ANCHORS AT HEAD & SILL: CLUSTER
OF ANCHORS AT SIDELITE & DOOR JAMB MULLIONS &
CORRESPONDING ASD DESIGN PRESSURE RATING ***

ASD DESIGN PRESSURE RATING	SUBSTRATE
	CONCRETE, BLOCK, WOOD, ALUM., STEEL
UP TO +67.5, -67.5 psf	4 ANCHORS
> +67.5, -67.5 psf UP TO +70, -70 psf	6 ANCHORS



10/29/2024

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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH
DOOR W/W_o TRANSOM OR SIDELITES.

W.H
DRAWN BY:

**ALUMINEX WINDOWS
& DOORS, LLC.**

DATE: 07/17/2024

6333 NW 74 AVE.,
MIAMI, FL 33166

24-078

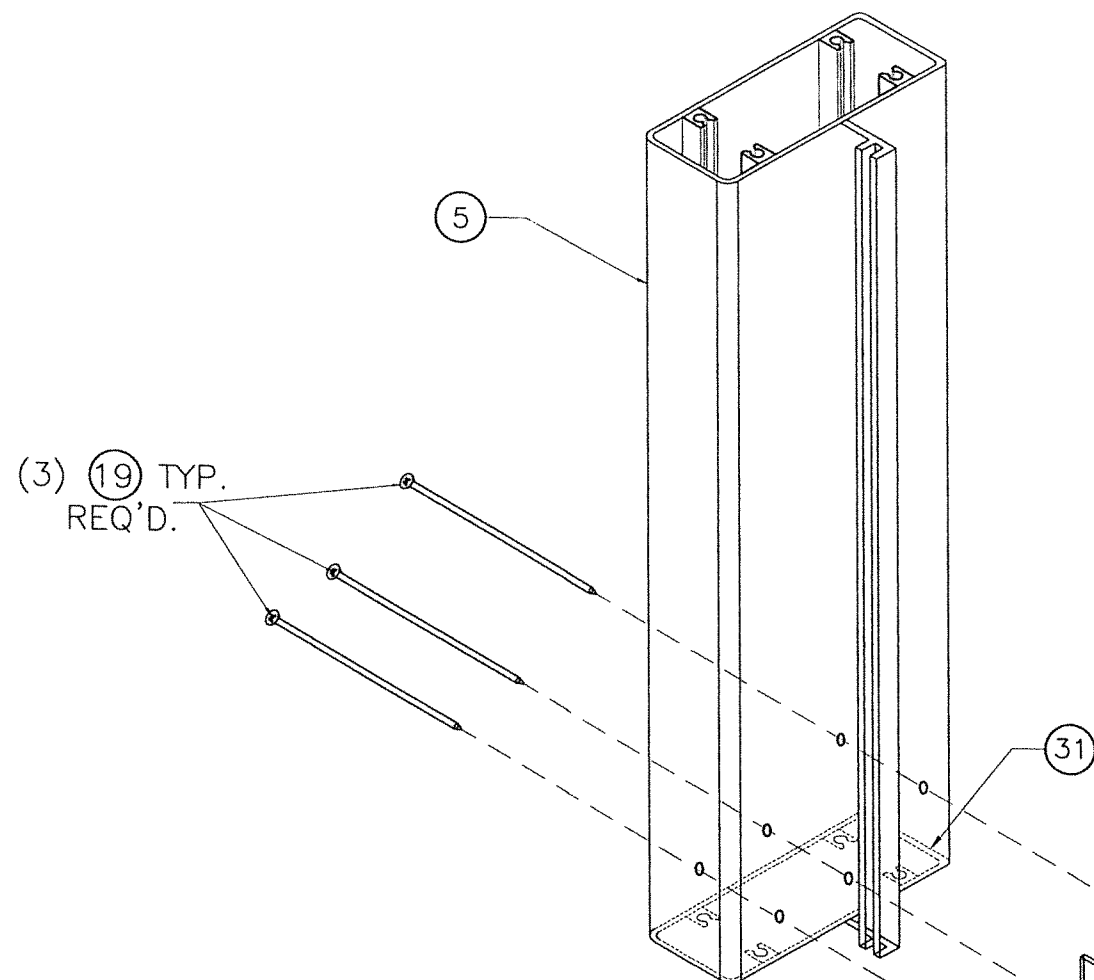
PH: (786) 222-0427, FAX: (305) 428-3011

DRAWING No. 1

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

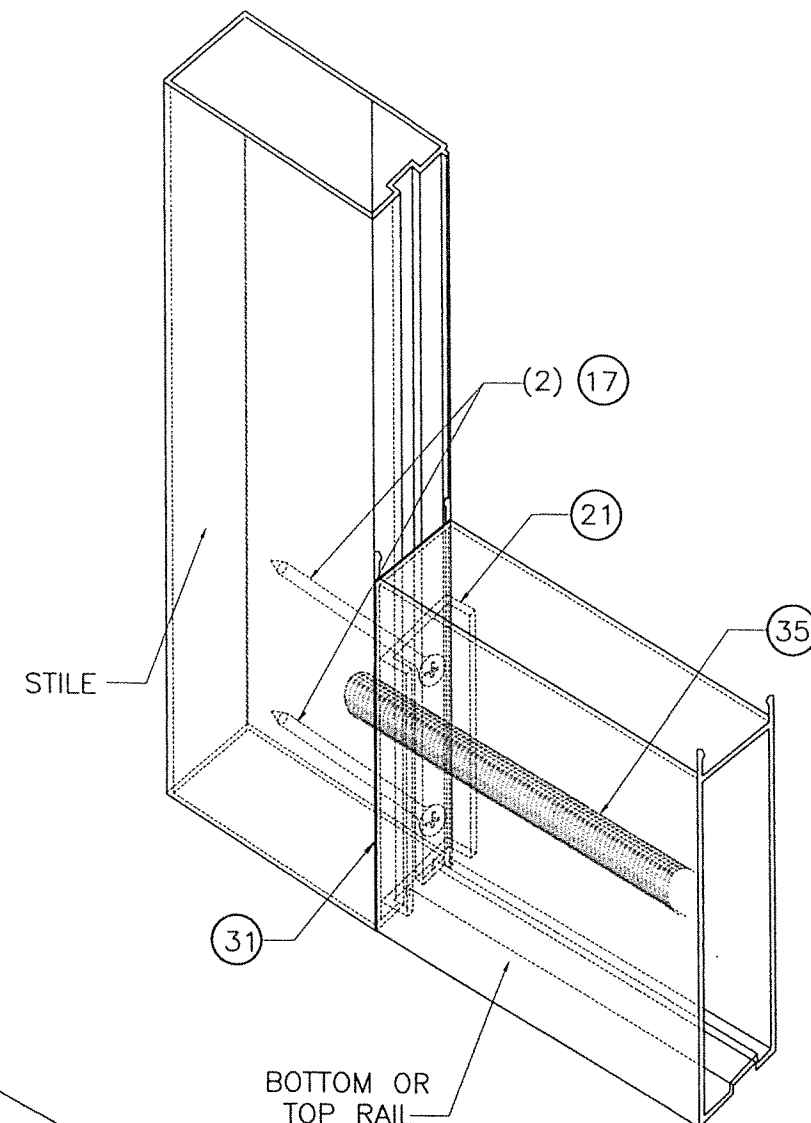
DRAWING No.

SHEET 22 of 24



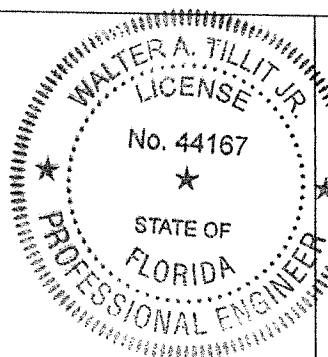
**FRAME CORNER DETAIL
(ISOMETRIC).**

N. T. S.



**DOOR PANEL & PANEL
CORNER DETAIL
(ISOMETRIC).**

N. T. S.



Walter A. Tillit Jr.
10/28/2024

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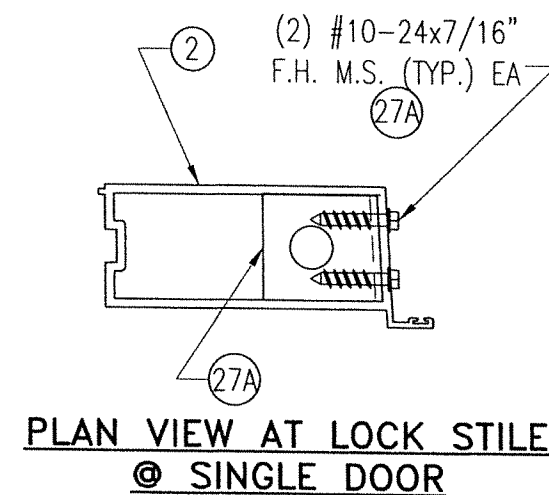
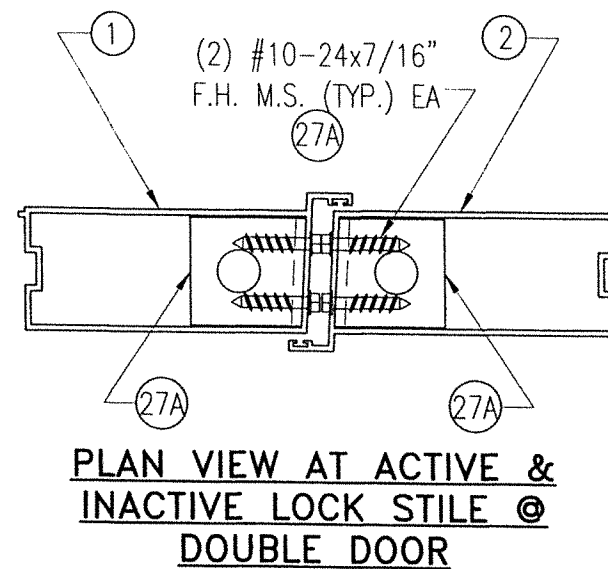
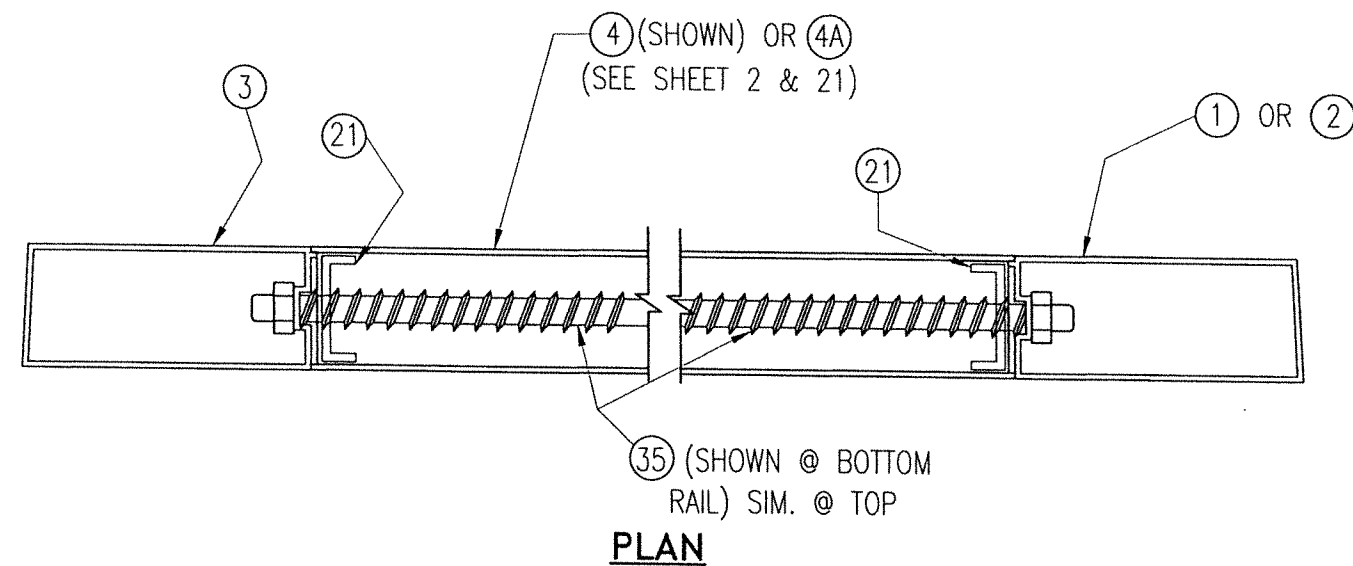
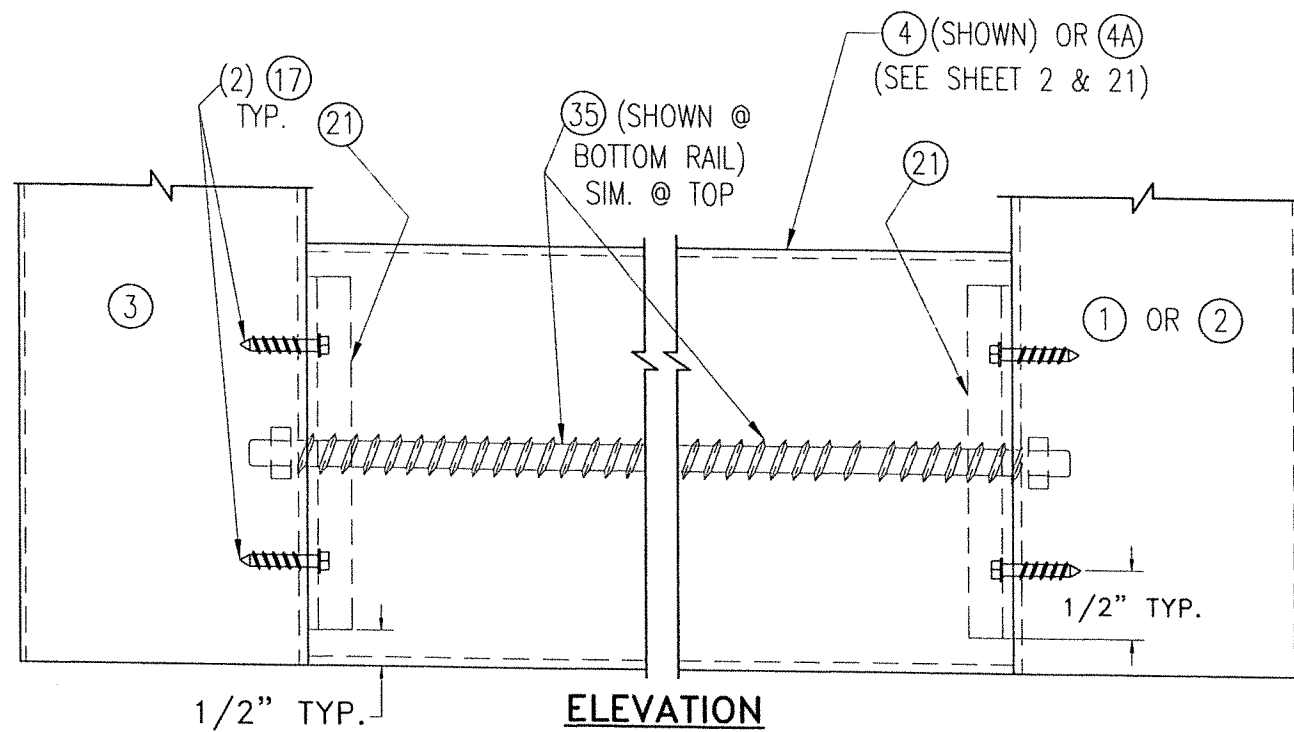
07/17/2024
DATE:

24-078

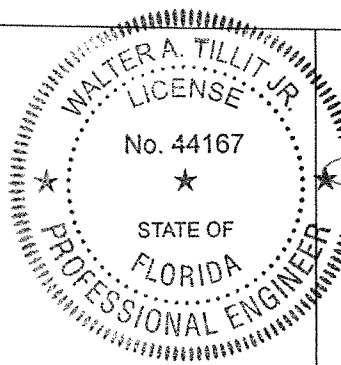
DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	10/28/24	3	-	-
2	-	-	4	-	-

SHEET 23 of 24



**SHOOT BOLT GUIDE DETAIL
AT TOP & BOTTOM STILES**
SCALE: N.T.S



10/29/2024
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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			ALUMINEX WINDOWS & DOORS, LLC.		07/17/2024 DATE:
			6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011		24-078 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	GENERAL	10/28/24	3	-	-
2	-	-	4	-	-