

GENERAL NOTES:

- SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR SIDELITES, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2020 (7th EDITION)** OF THE FLORIDA BUILDING CODE. SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/TRANSOM OR SIDELITES MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z) OR OUT OF IT (N.H.V.H.Z).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620** OF THE ABOVE MENTIONED CODE, USING **ASCE 7-16** 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 7-16** 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.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS **1626 & 1609.1.2 & AAMA 501** (PER SECTION 2411.3.2.1.1) 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 & 1604** OF THE FLORIDA BUILDING CODE.
- REMAINING COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON BILL OF MATERIALS AND COMPONENT SHEETS 2, 3, 4, 24, 25 & 26 OF THIS DRAWING.
- MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS PRODUCT SHALL BE AS SHOWN ON SHEET 21. SEE DOOR ELEVATIONS AND NOTES ON SHEETS 5 THRU 10 FOR QUALIFIED CONFIGURATIONS.**
- THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**
- THIS PRODUCT IS APPROVED FOR AIR AND WATER INFILTRATION.**
- ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER AS PER SHEET 2. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.
- 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.
- WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE # 2, G=0.55, AND SHALL COMPLY WITH SECTION 2411.3.3.3 OF THE 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE.**
 - 2 x WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF DOOR FRAME ANCHORAGE. DOOR FRAME MUST BE SEPARATELY ANCHORED TO 2 x WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.
 - 1 x WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. DOOR FRAME ANCHOR SHALL BE USED TO ATTACH 1 x WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH DOOR FRAME & 1 x WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.
 - DOOR FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCKS WHEN MASONRY OPENING IS NO LARGER THAN ACTUAL DOOR OVERALL DIMENSIONS. HOWEVER, SHIMS (SEE NOTE 10) MAY BE ALLOWED AT DOOR FRAME ANCHOR LOCATION IF NEEDED.

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

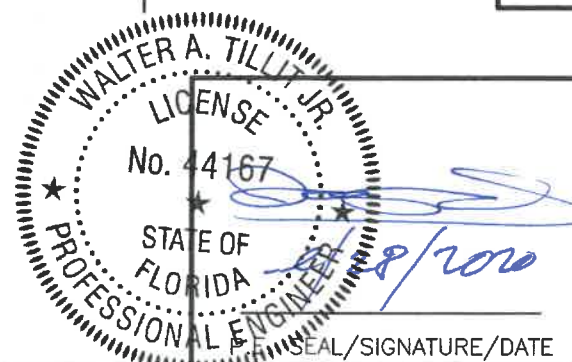
- TO EXISTING POURED CONCRETE:** (MIN. $f'_c = 2000$ psi), MIN. EDGE DISTANCE (E.D.) = 3".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT **(22)**).
 - TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL:** MIN. EDGE DISTANCE (E.D.) = 3".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT **(22)**).
 - 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)**).
 - 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.
 - TO EXISTING MIN. 16 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.
- PROVIDE 1/4" MAX. LOAD BEARING SHIM, WHEN ALLOWED BY THIS DRAWING.
 - 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.
 - 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.
 - PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5.1 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
 - (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.

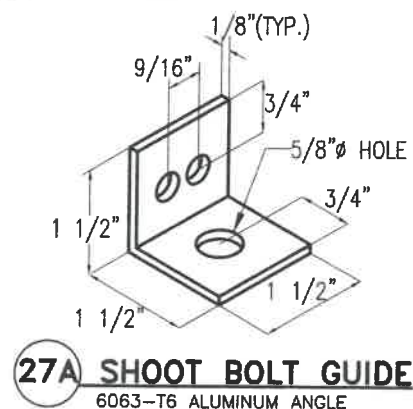
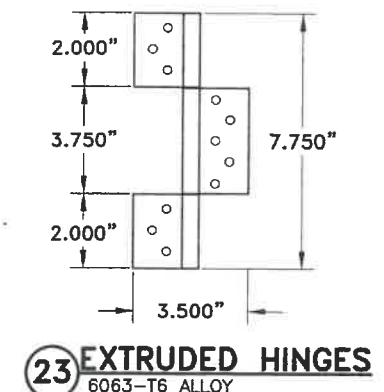
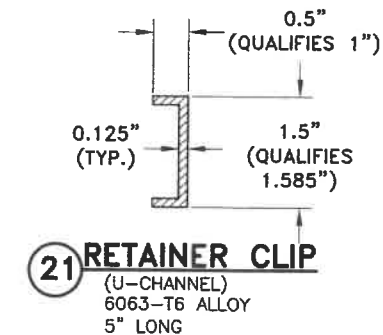
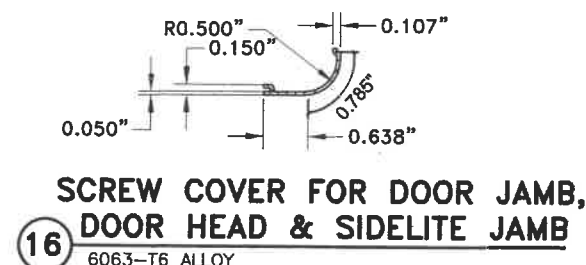
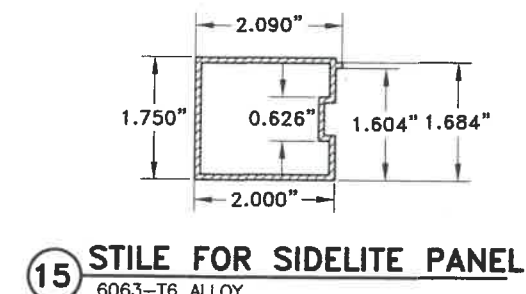
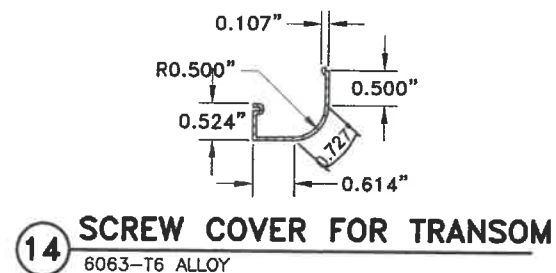
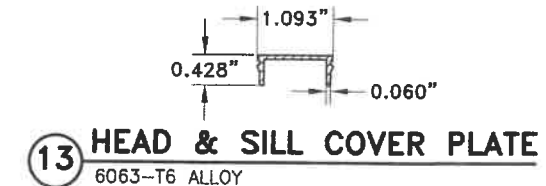
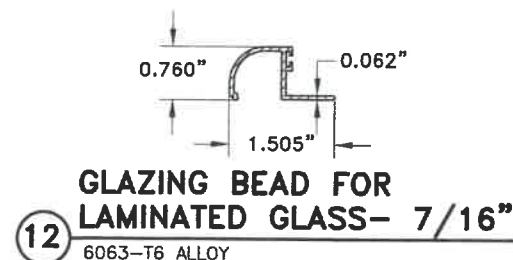
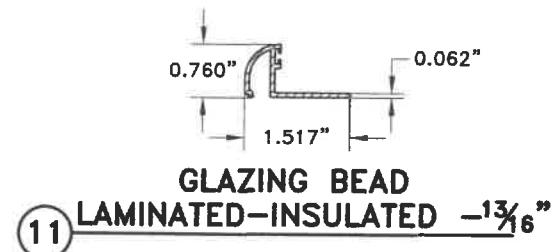
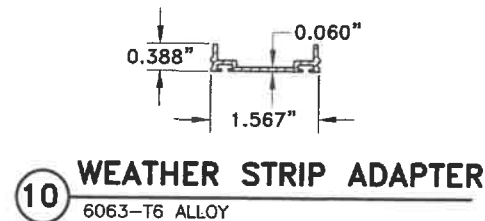
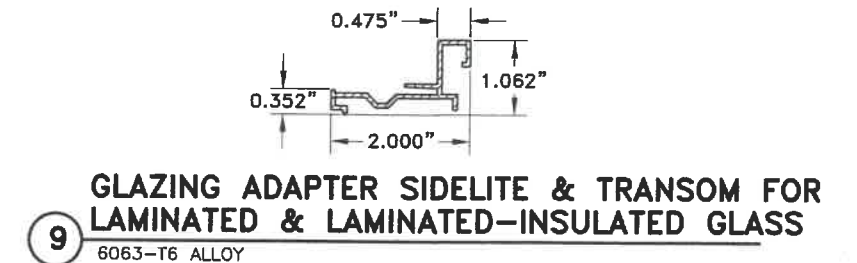
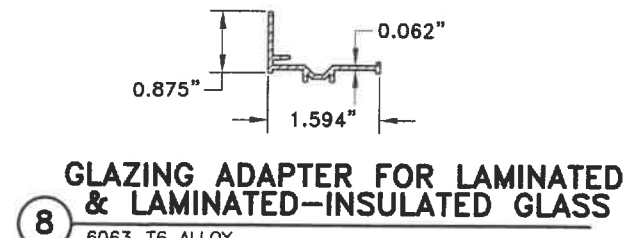
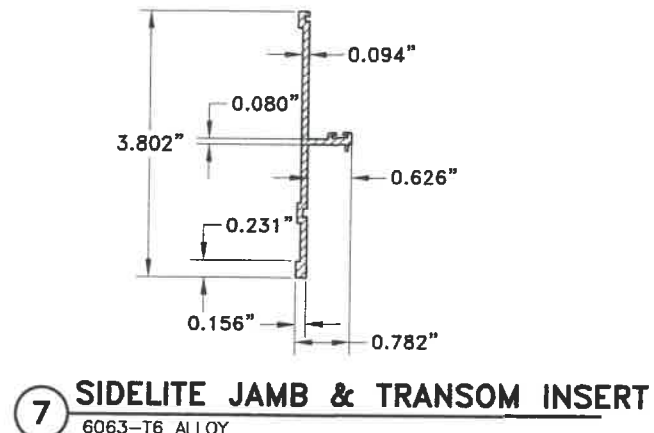
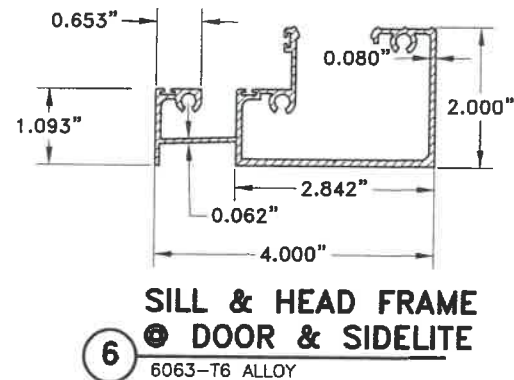
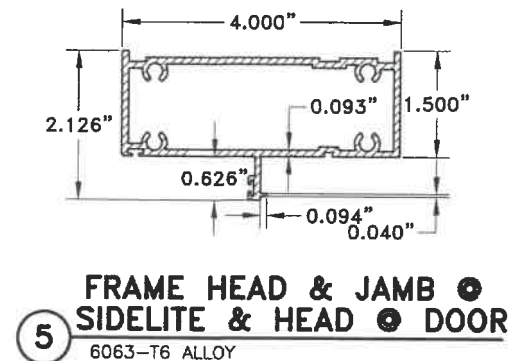
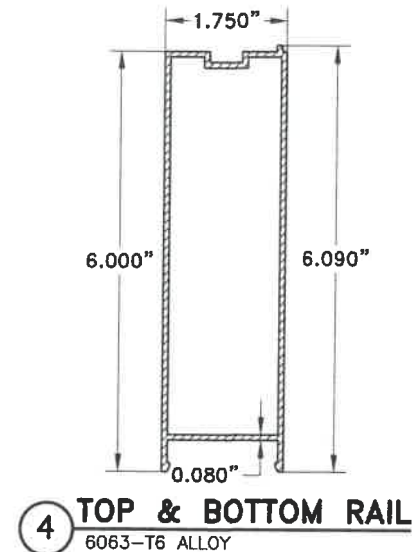
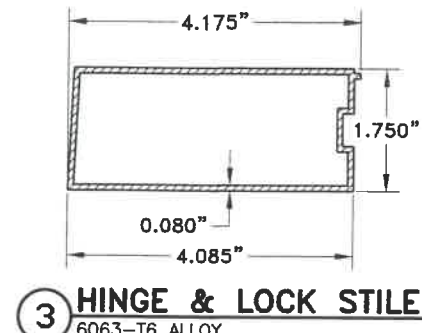
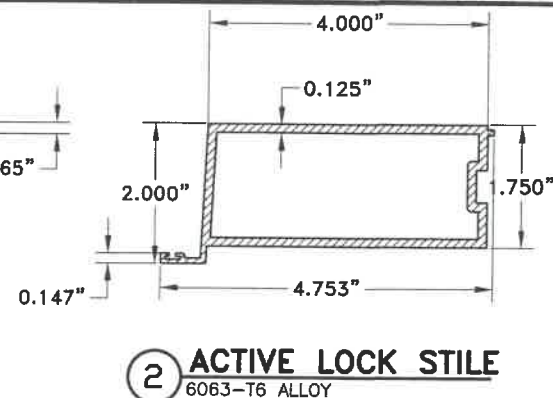
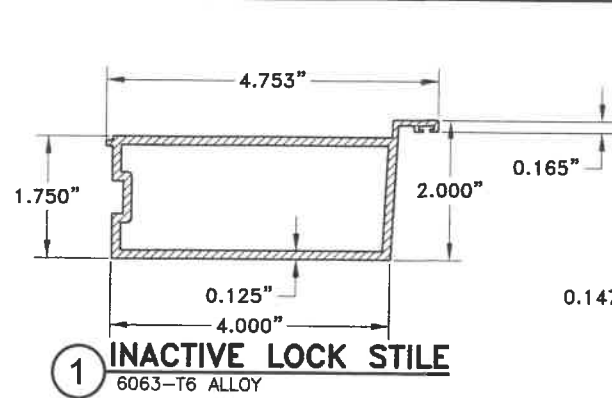
(c) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

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



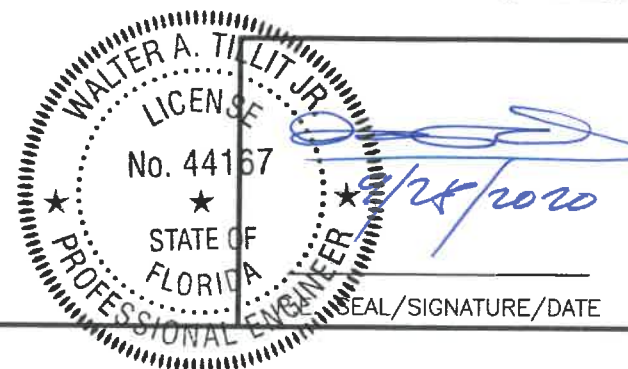
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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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		 290 WEST 78 ROAD HIALEAH, FL 33014 PHONE: (305) 558-8103 FAX: (305) 558-6665 www.generalimpact.com		7/28/2020 DATE																		
WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		<table><tr><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th></tr><tr><td>1</td><td>OLD 18-080</td><td>7/28/2020</td><td>3</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td>4</td><td></td><td></td></tr></table>		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 18-080	7/28/2020	3			2			4			20-179 DRAWING No
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1	OLD 18-080	7/28/2020	3																			
2			4																			
SHEET 1 OF 45																						



COMPONENTS (OPTIONAL SYSTEM # 1)

SCALE: 3/8"=1"



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7/28/2020
DATE

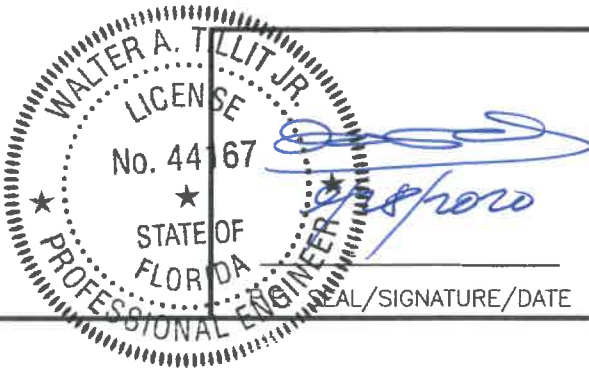
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DRAWING No

SHEET 2 OF 45

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 18-080	7/28/2020	3		
2			4		

BILL OF MATERIALS (OPTIONAL SYSTEM # 1)			
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	TOP & BOTTOM RAIL	SEE SHEET 2	6063-T6
5	FRAME HEAD & JAMB @ SIDELITE & HEAD @ DOOR	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
12	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	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 ON SHEET 1	STEEL
22A	TEK SCREW (ITW/BUILDEX)	1/4" Ø - SEE GENERAL NOTE 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 (DOOR FRAME JAMB)	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/ CYLINDER, LATCH & DEAD BOLT STRIKE, LEVER COMPRESSION LOCK MANUFACTURED BY ASSA ABLOY		
29A	2 POINT LOCK ACTIVE HANDLE 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 (OPTION TO 3 AND 2 POINT LOCK) ASSA ABLOY, 7 mm ROD W/ (2) # 8 x 1/2" SMS TO STILE	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
38	WEEP HOLES	1/16" HIGH x 1 15/16" LONG @ THRESHOLD (2 PER DOOR)	

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



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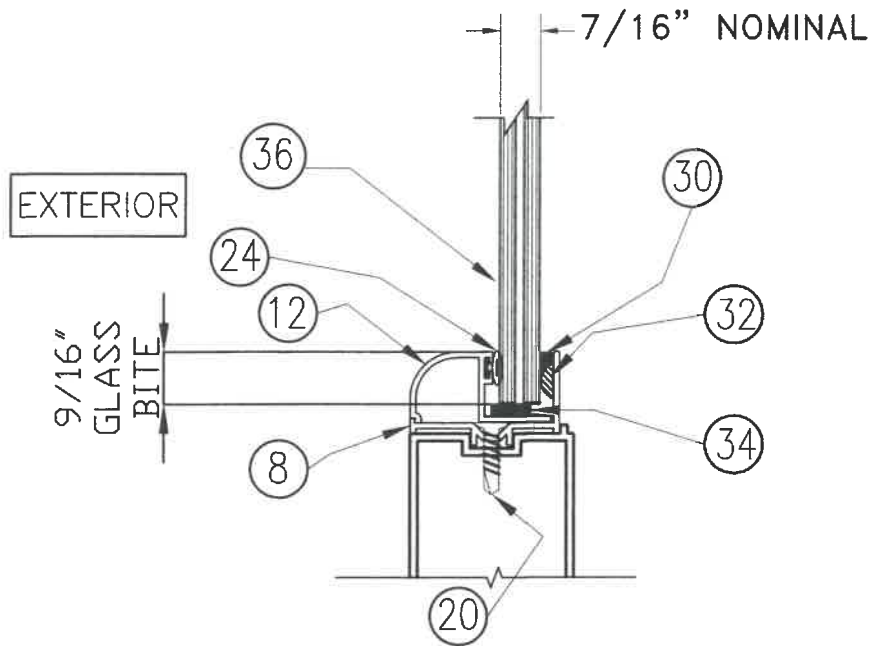
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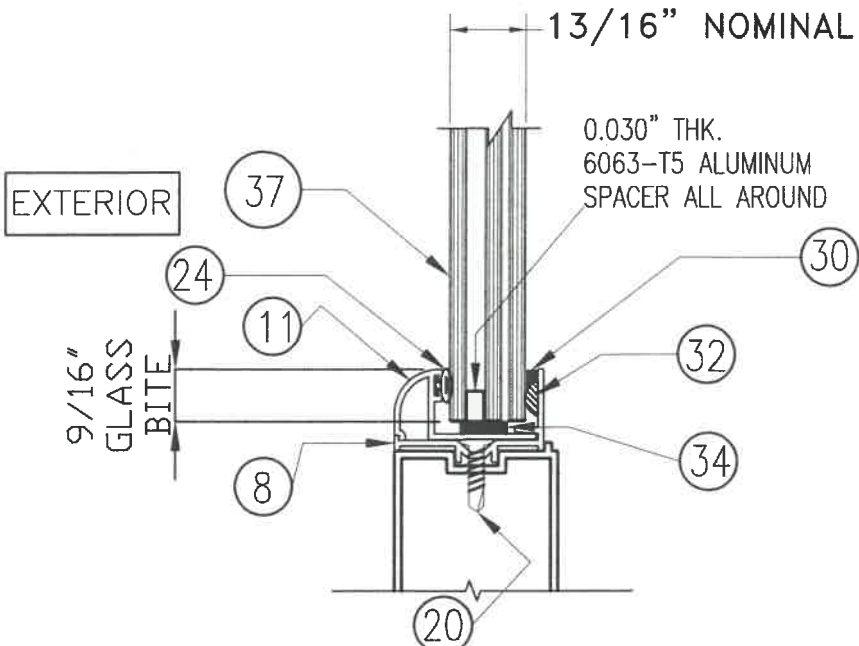
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DRAWING No

SHEET 3 OF 45

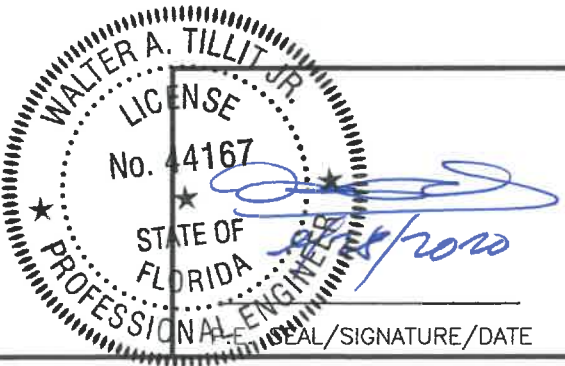
BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
36	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" DUPONT TROSIFOL INTERLAYER BY KURARAY AMERICA INC., + 3/16" H.S. GLASS.	GLASS
37	13/16" INSULATED-LAMINATED GLASS W/ 3/16" TEMPERED GLASS OUT BOARD -1/4 ARGON SPACER + 3/16 H.S.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



GLAZING DETAIL 1
AT 36
 SCALE: 1/2"=1"

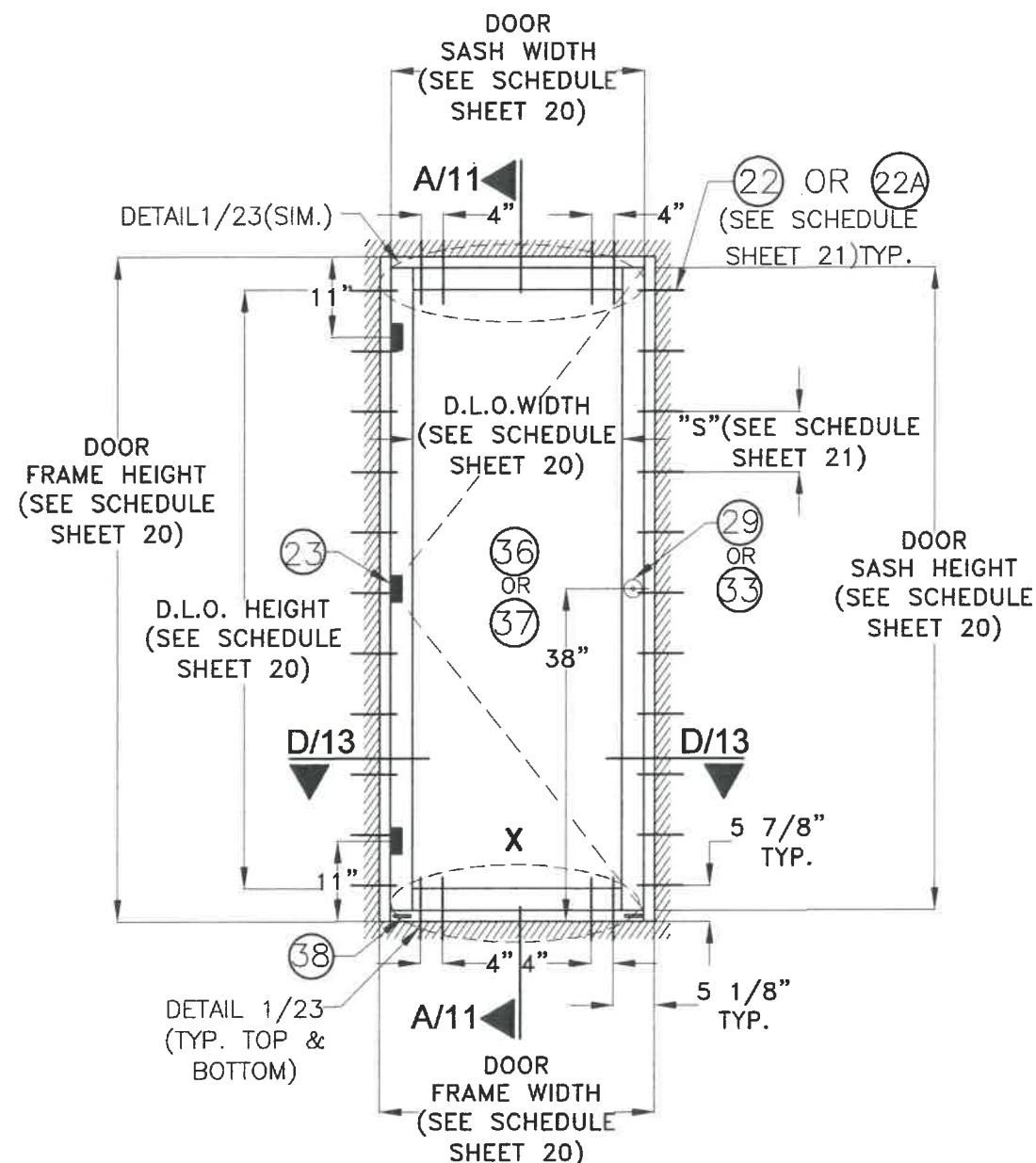


GLAZING DETAIL 2
AT 37
 SCALE: 1/2"=1"

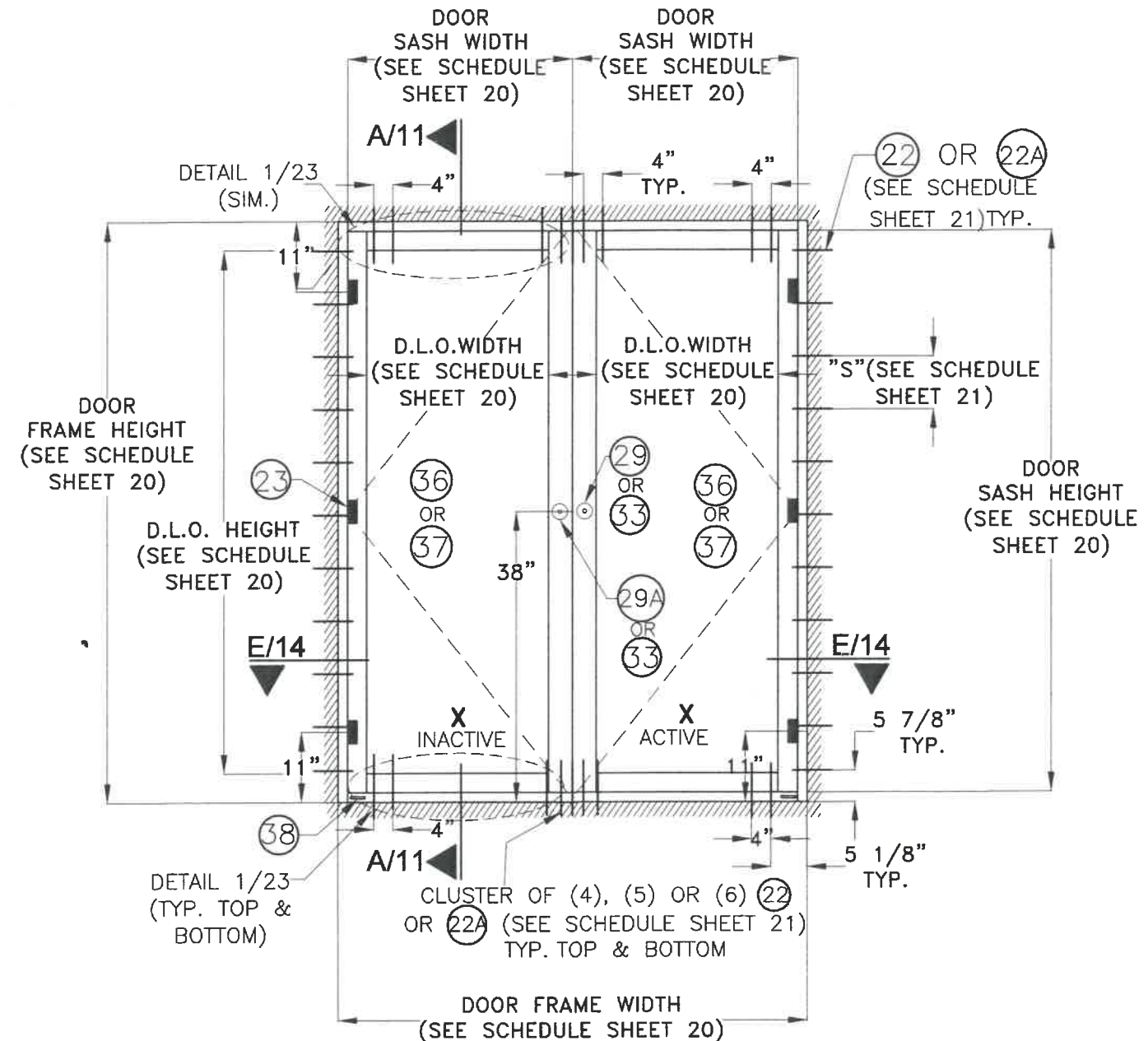


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				SHEET 4 OF 45



**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR**

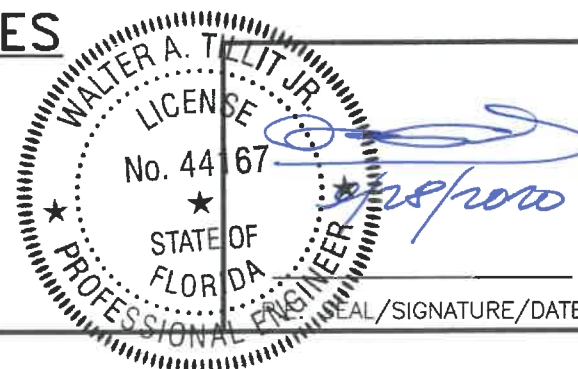


**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR**

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

OPTIONAL SYSTEM # 1

3/8"=1'-0"



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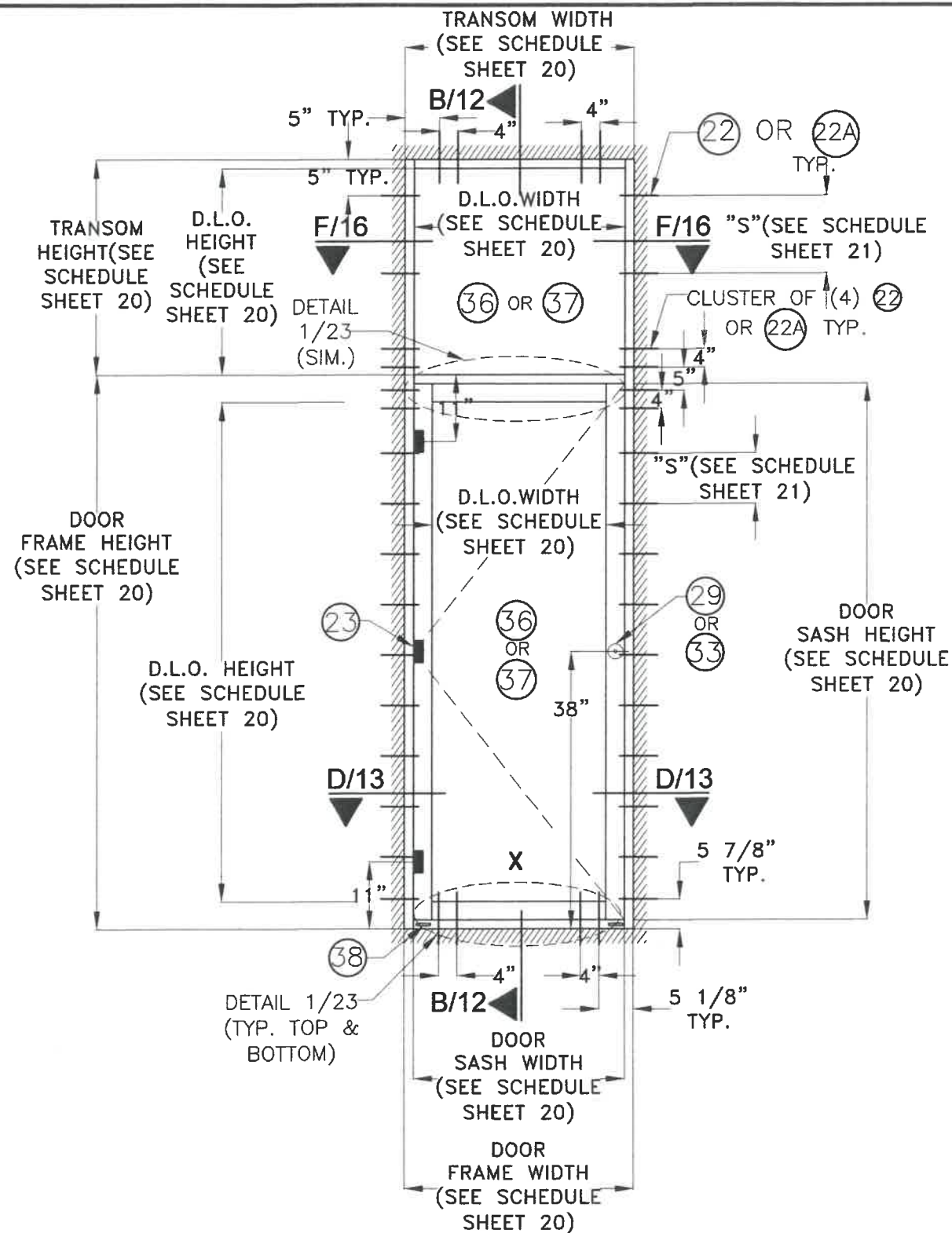
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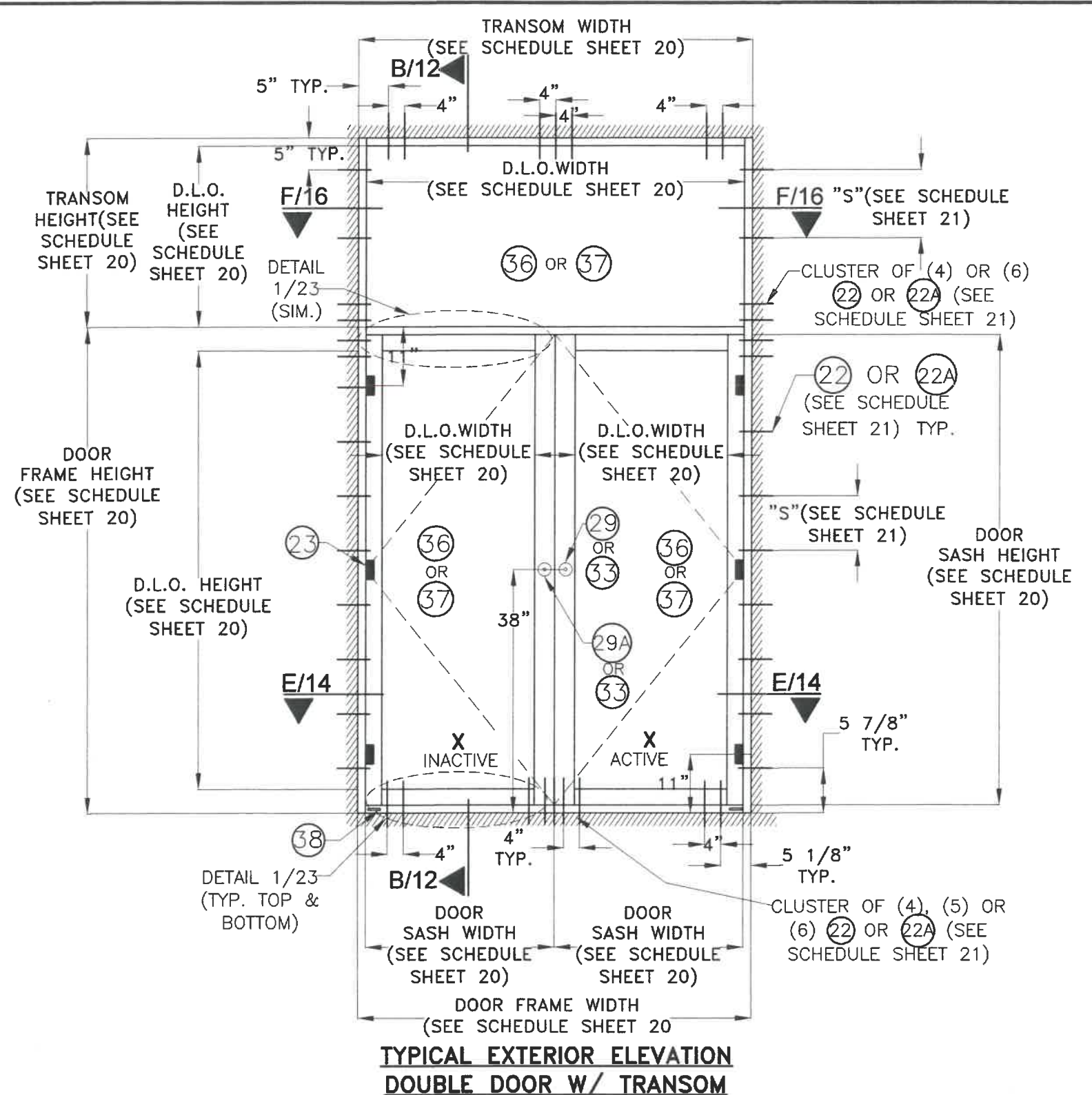
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DRAWING No

SHEET 5 OF 45

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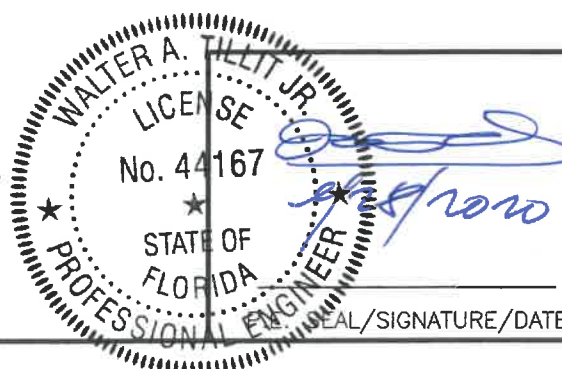


**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR W/ TRANSOM**



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

**TYPICAL EXTERIOR ELEVATIONS FOR SINGLE
& DOUBLE DOOR W/ TRANSOM
OPTIONAL SYSTEM # 1
3/8"=1'-0"**



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

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

**SERIES 24000 LMSZ IMPACT RESISTANT
OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES**



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HALEAH, FL 33014
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FAX: (305) 558-6665
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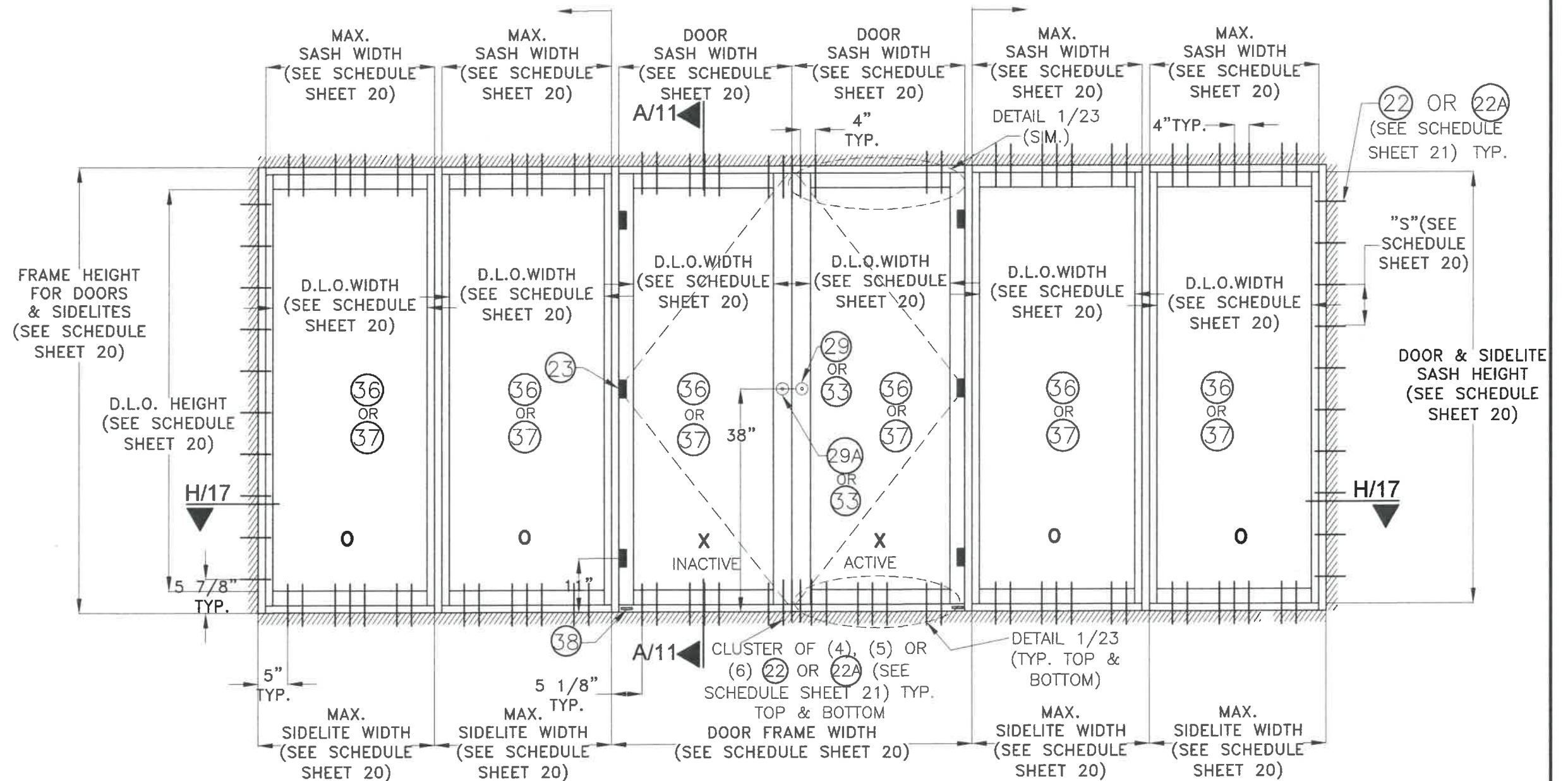
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20-179
DRAWING No

SHEET 6 OF 45

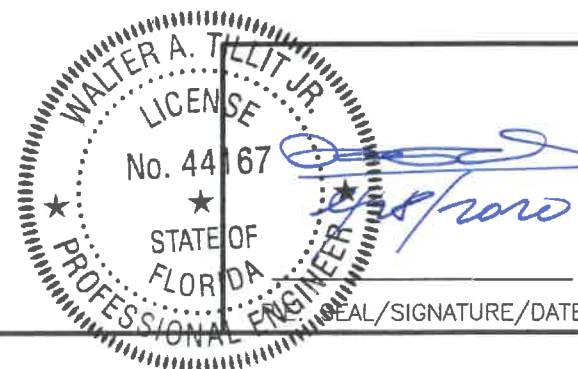
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2			4		



NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDE LITES TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
- (I.1) INTERIOR MULLIONS BETWEEN SIDE LITES SHALL ALWAYS CONSIST OF MULLION DESCRIBED ON SECTIONS G,H,I,J SHEETS 16 THRU 19 OF DRAWING 20-179
- (I.2) DOOR JAMB MULLIONS SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS G,H,I,J SHEETS 16 THRU 19 OF DRAWING 20-179.
- (I.3) JAMBS SHALL ALWAYS BE ATTACHED TO EXISTING SUBSTRATES W/ ANCHORS AS PER GENERAL NOTE 9, SHEET 1 & AS SPACINGS PER SCHEDULE ON SHEET 21 OF DRAWING 20-179.
- (I.4) TOP & BOTTOM ANCHORS FOR INTERMEDIATE SIDE LITES MULLION AS WELL AS DOOR JAMB MULLIONS SHALL BE AS INDICATED ON ELEVATIONS SHEETS 2 THRU 10 OF DRAWING 20-179 AND SCHEDULES ON SHEET 21.
- (II) SUCCESSIVE SIDE LITES MAY BE INSTALLED AT RESIDENTIAL BUILDINGS AS LONG AS THE FOLLOWING PROCEDURE AND REQUIREMENTS APPLY.
- (II.1) JAMBS ARE ATTACHED TO EXISTING SUBSTRATE AT BUILDINGS W/ANCHORAGE AS PER SCHEDULES ON SHEET 21.
- (II.2) INTERIOR MULLIONS ARE PROVIDED BETWEEN SIDE LITES & CONSIST OF MULLIONS DESCRIBED ON SECTIONS G,H,I,J, SHEETS 16 THRU 19 OF DRAWING 20-179.
- (II.3) INTERIOR MULLIONS BETWEEN SIDE LITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 21 OF DRAWING 20-179.

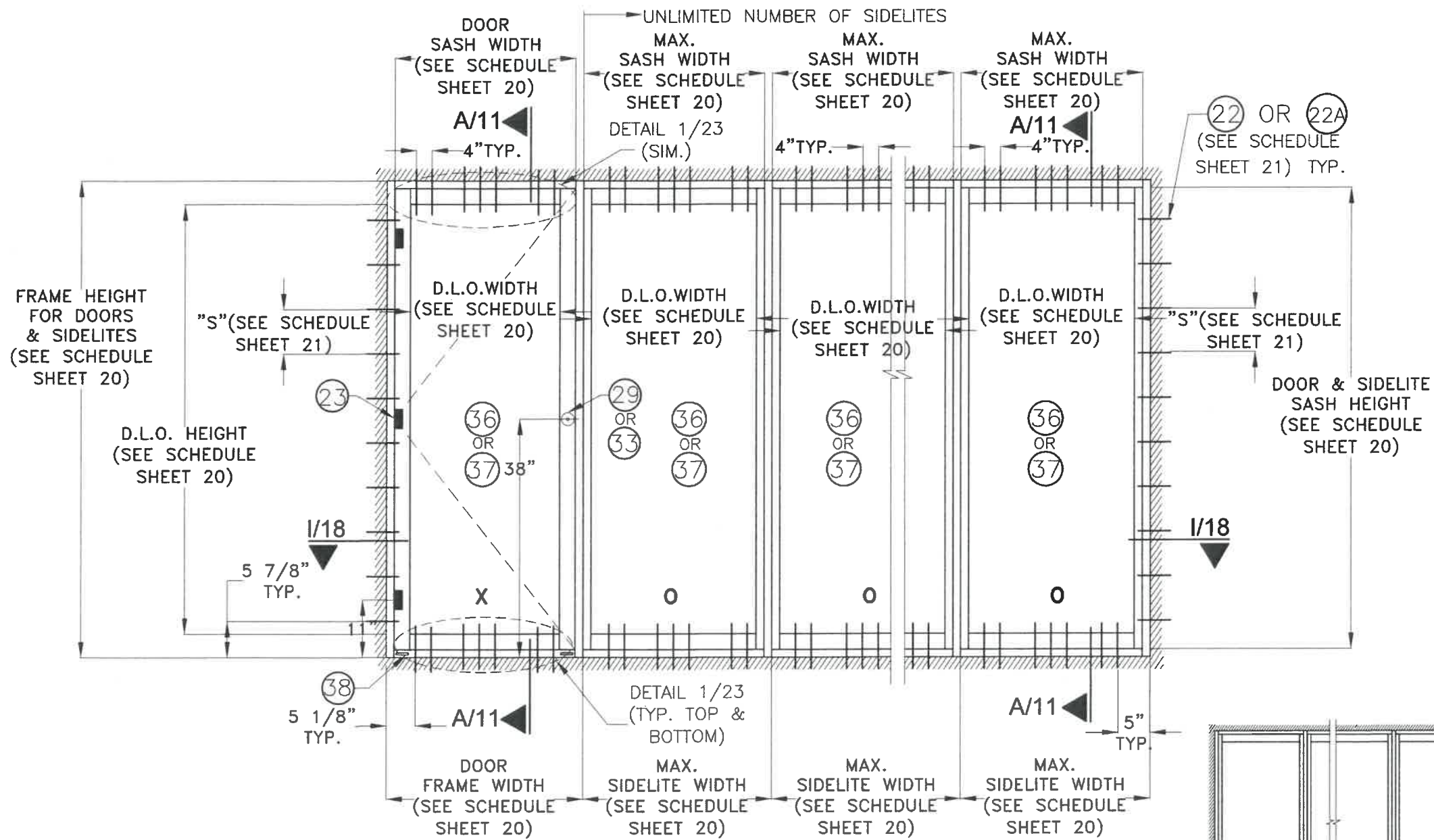
**TYPICAL EXTERIOR ELEVATION OF
DOUBLE DOOR W/ SIDELITES ***
OPTIONAL SYSTEM # 1
3/8"=1'-0"



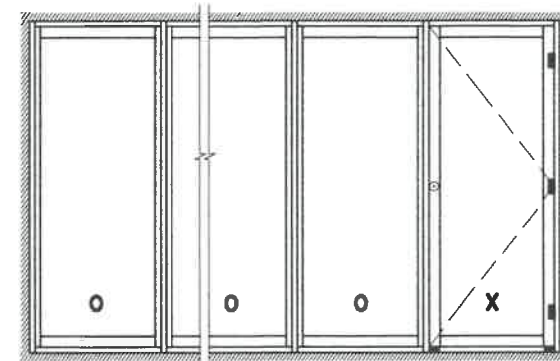
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SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES				DRAWN BY M.P.	
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				20-179 DRAWING No	
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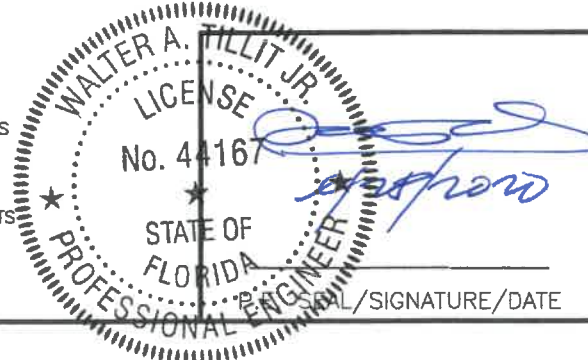
**TYPICAL EXTERIOR ELEVATION OF
SINGLE DOOR W/ SIDELITES *, **
OPTIONAL SYSTEM # 1**
3/8"=1'-0"



** QUALIFIES MIRROR CONFIGURATION TOO.

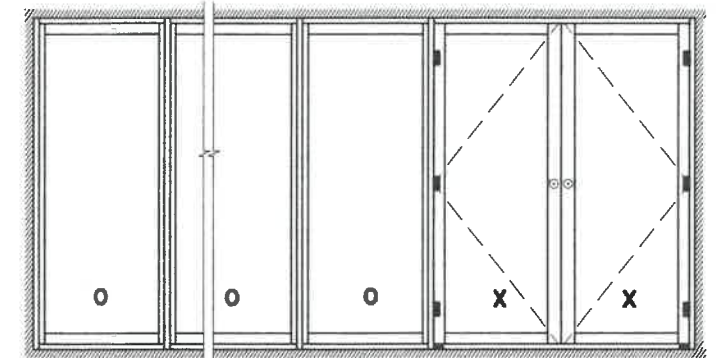
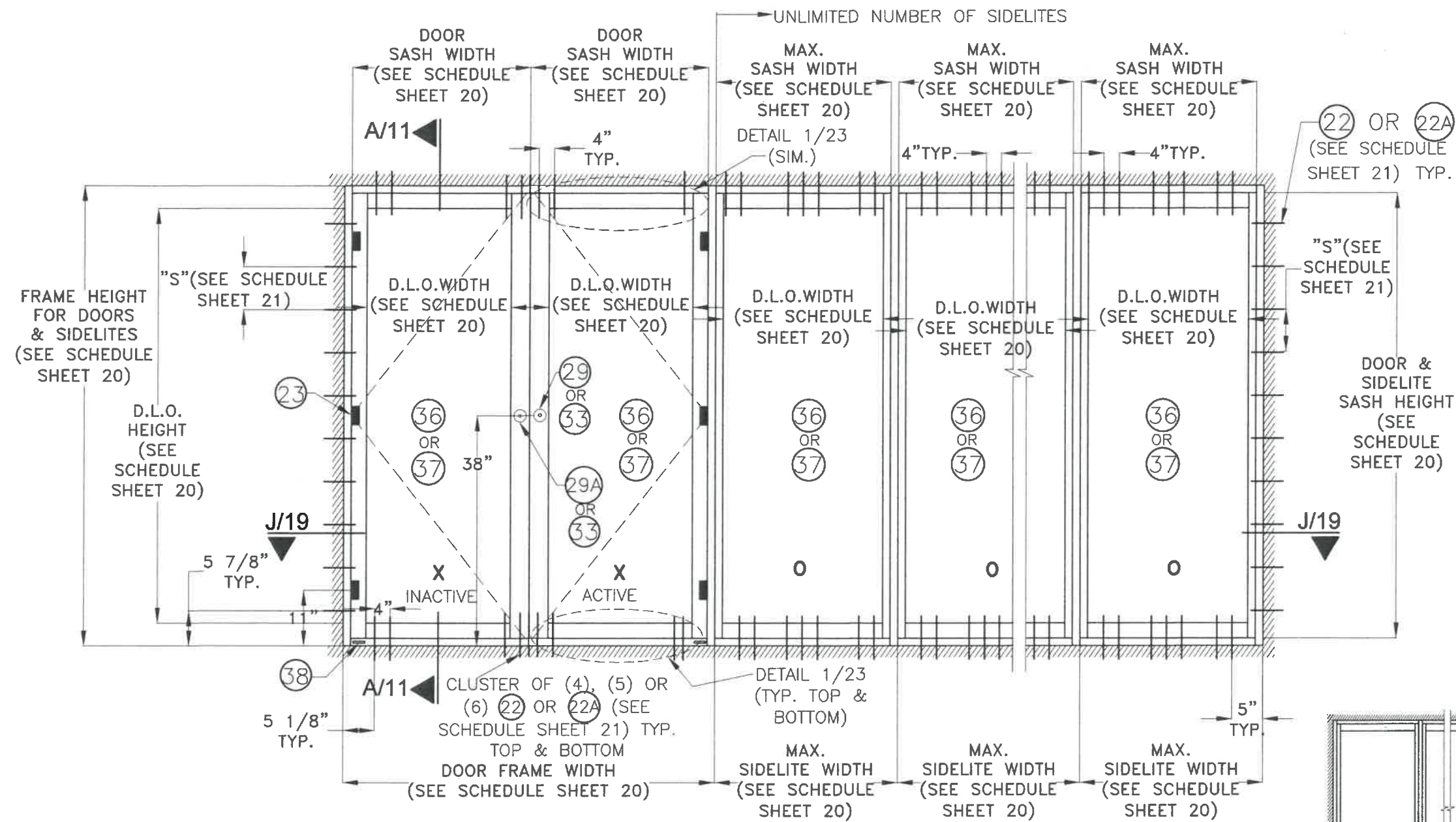
NOTE: *

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 - (II.3) INTERIOR MULLIONS BETWEEN SIDE LITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 21 OF DRAWING 20-179.



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REV. No 1 2	DESCRIPTION OLD 10-080	DATE 7/28/2020	REV. No 3 4

SHEET 9 OF 45

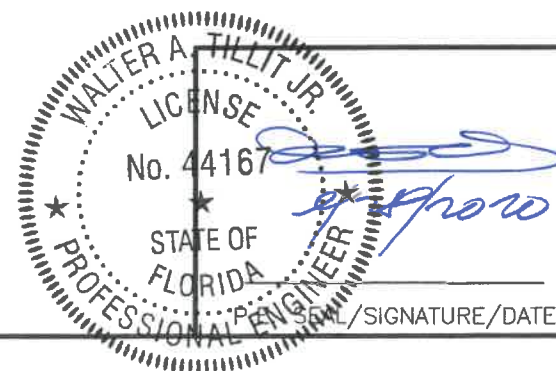


** QUALIFIES MIRROR CONFIGURATION TOO.

NOTE: *

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**TYPICAL EXTERIOR ELEVATION OF
DOUBLE DOOR W/ SIDELITES *, ****
OPTIONAL SYSTEM # 1
3/8"=1'-0"



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FLORIDA Lic. # 44167

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OR W/ SIDELITES**



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FAX: (305) 558-6665
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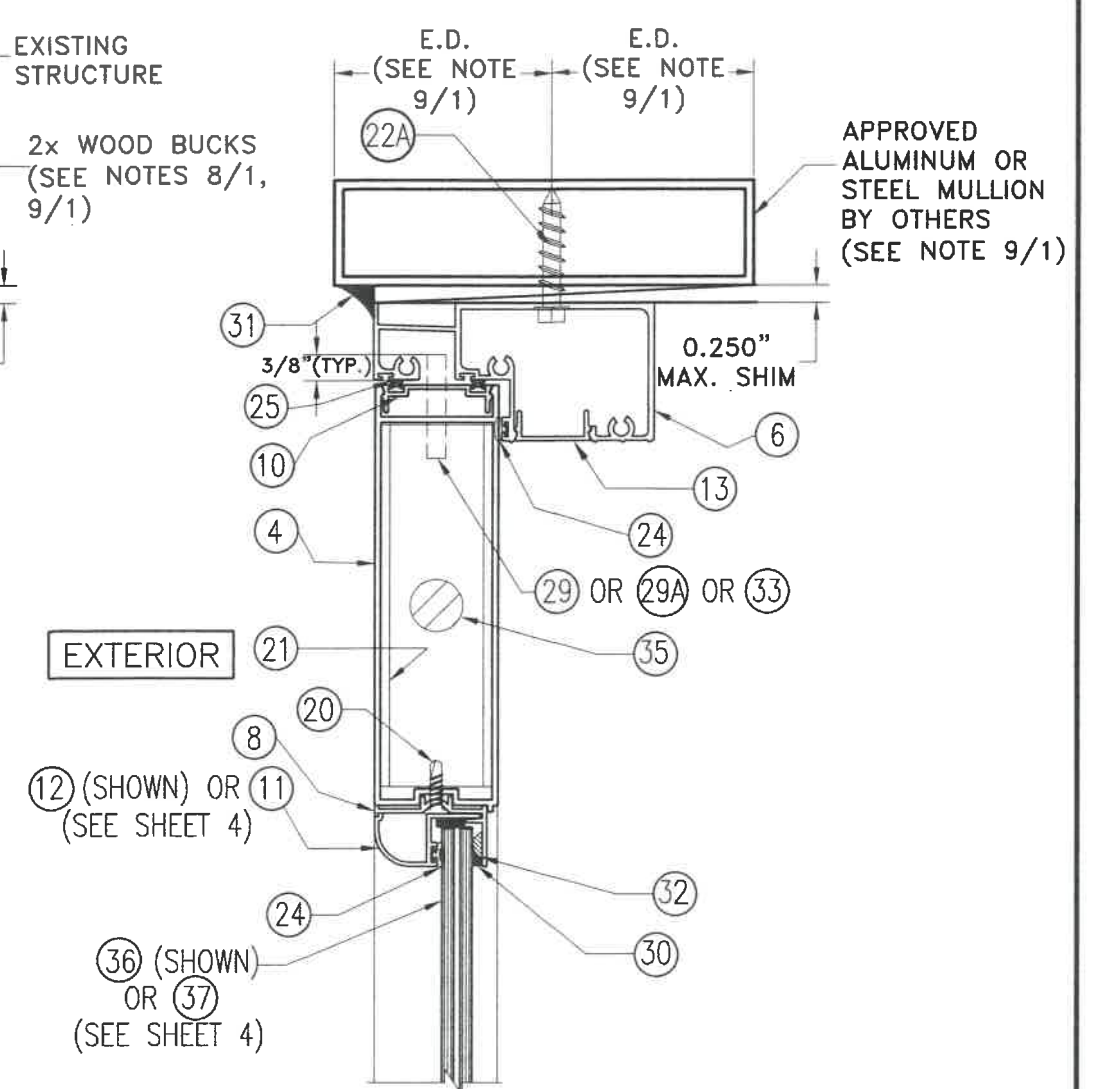
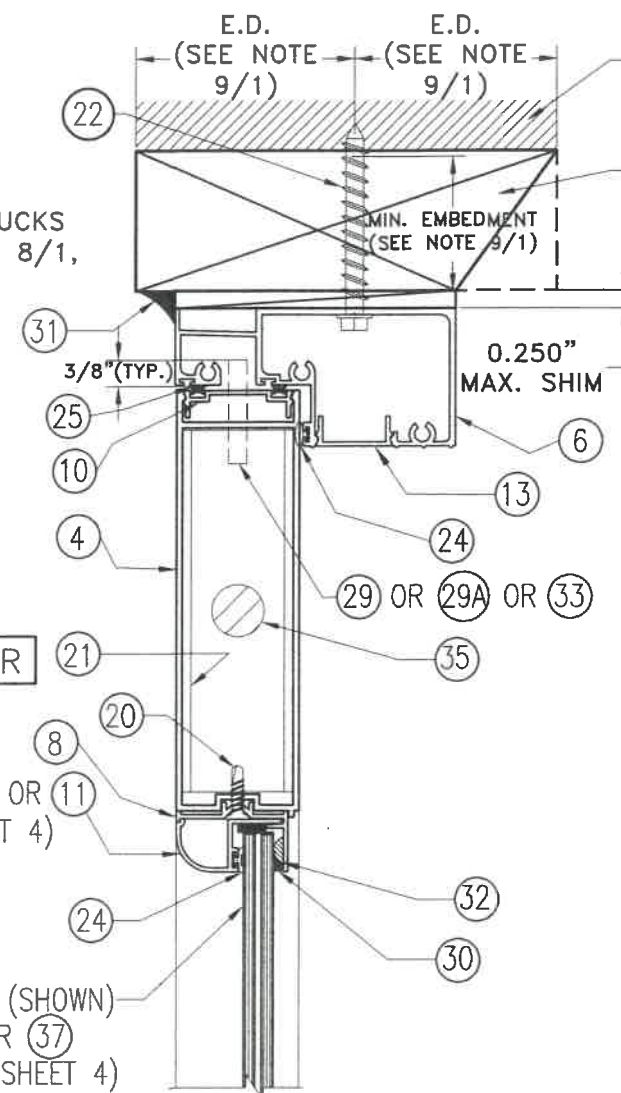
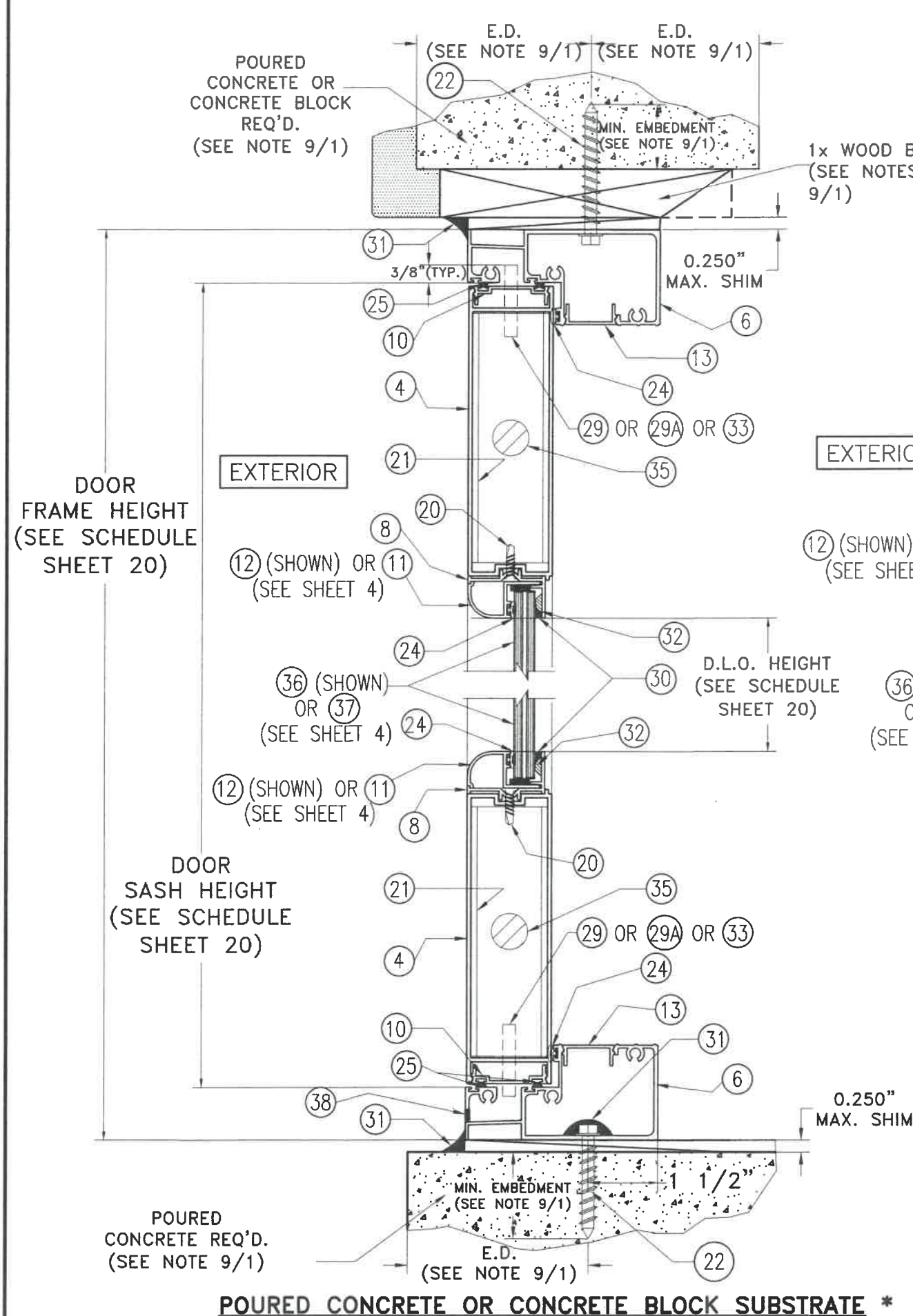
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DATE

20-179
DRAWING No

SHEET 10 OF 45

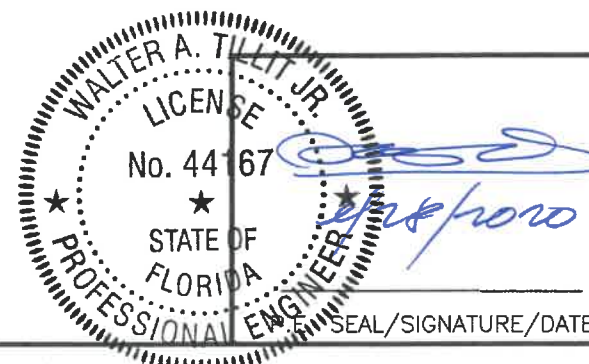
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2			4		



SECTION A-A OPTIONAL SYSTEM # 1

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.



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OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES**



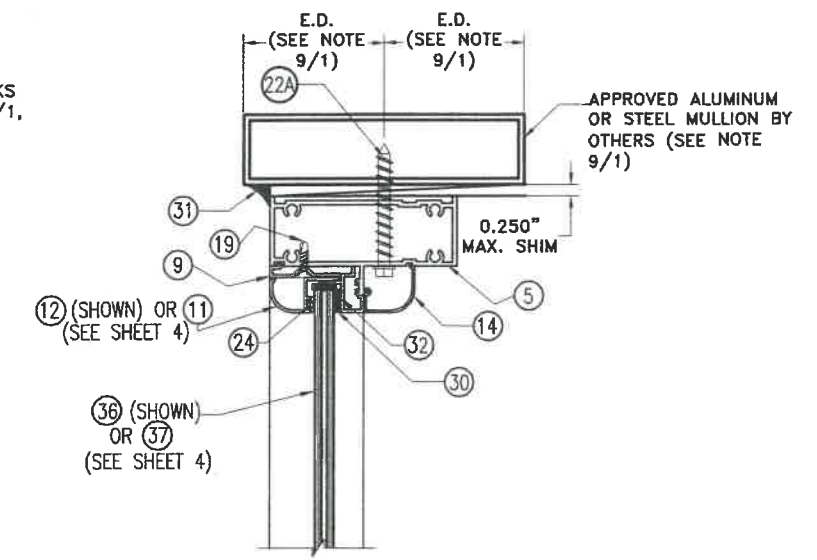
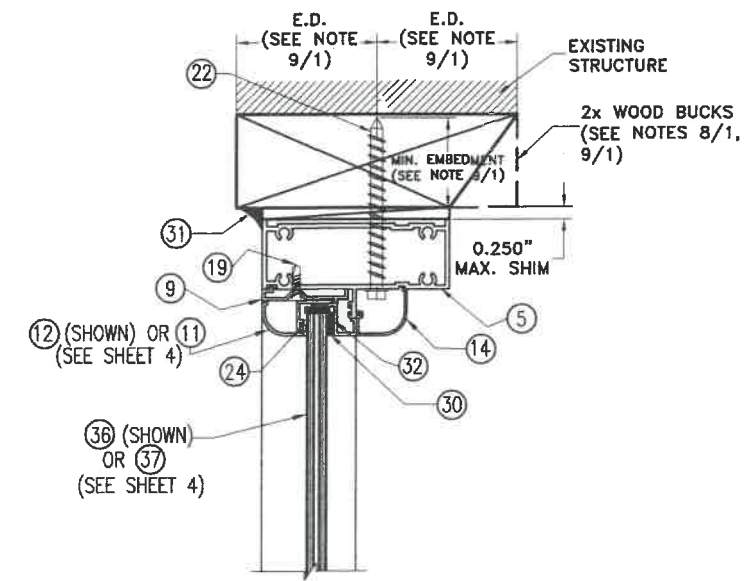
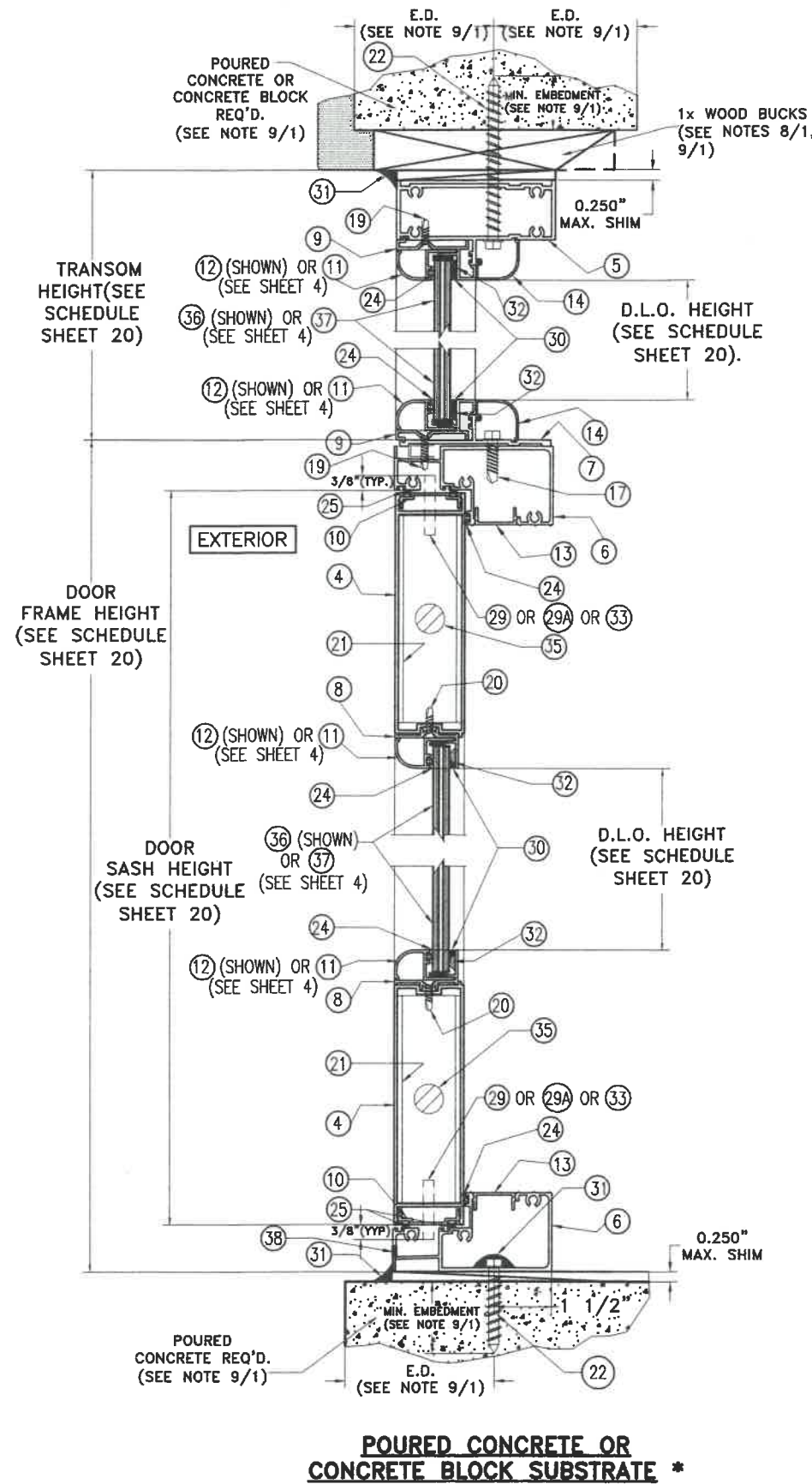
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FAX: (305) 558-6665
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WOOD SUBSTRATE *

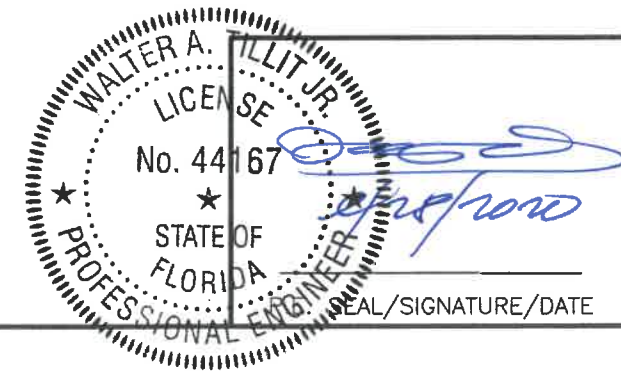
ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *

* 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 OPTIONAL SYSTEM # 1

SCALE: 1/4"=1"

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 FLORIDA Lic. # 44167

SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES

GENERAL
 IMPACT GLASS & WINDOWS
The Clear Solution

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 HIALEAH, FL 33014
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 FAX: (305) 558-6865
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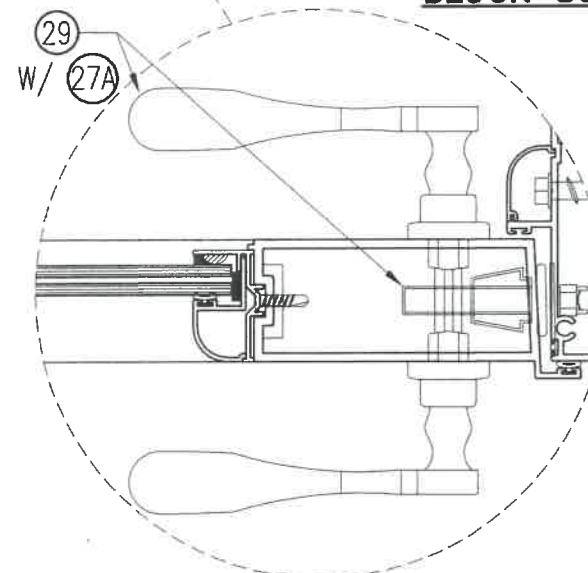
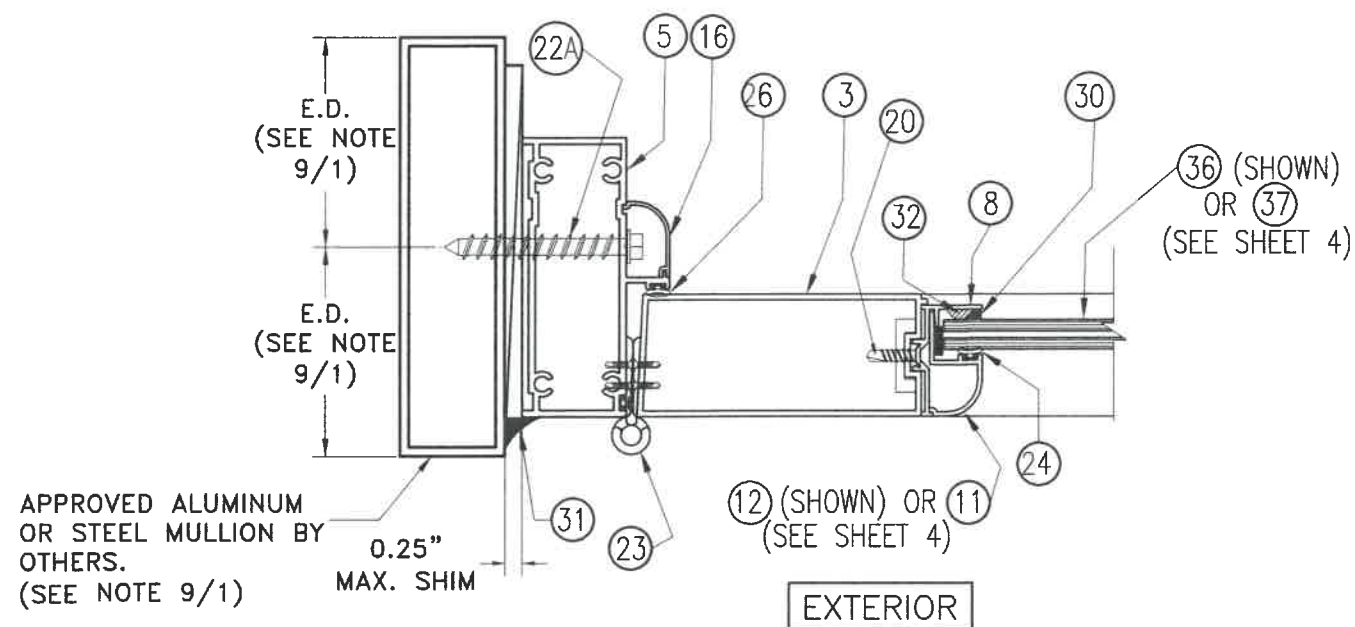
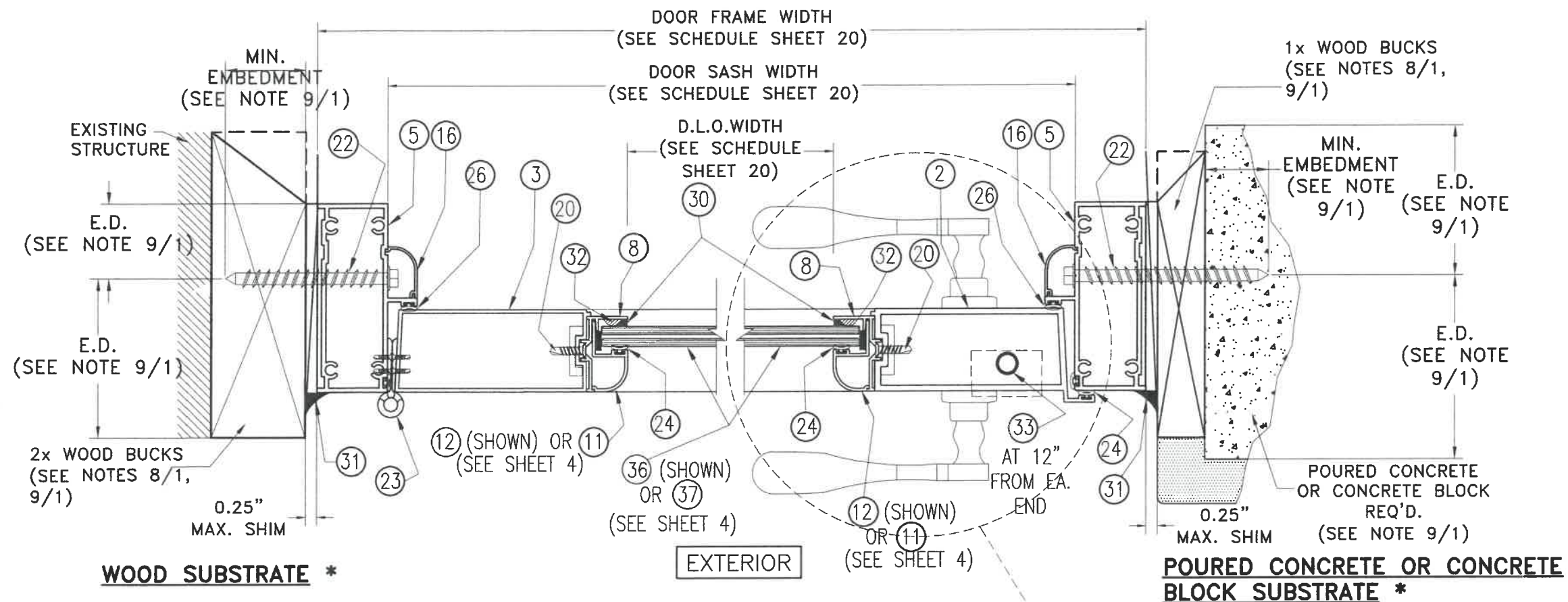
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20-179
 DRAWING No

SHEET 12 OF 45

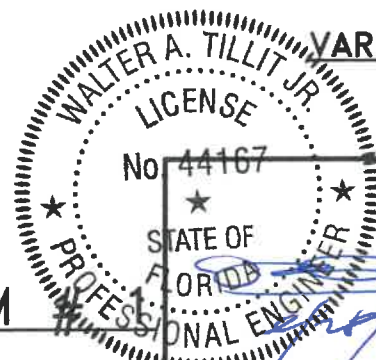


* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

VARIANCE W/ 29

SECTION D-D @ SINGLE DOOR OPTIONAL SYSTEM

SCALE: 3/8"=1"



P.E. SEAL/SIGNATURE/DATE

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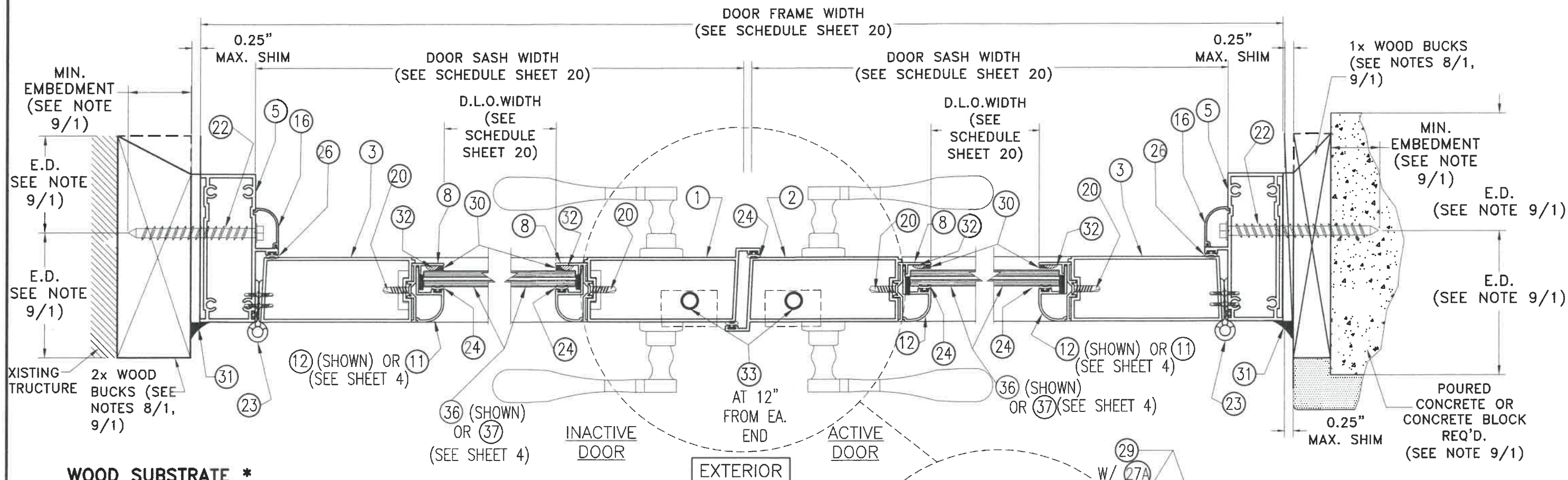
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DATE

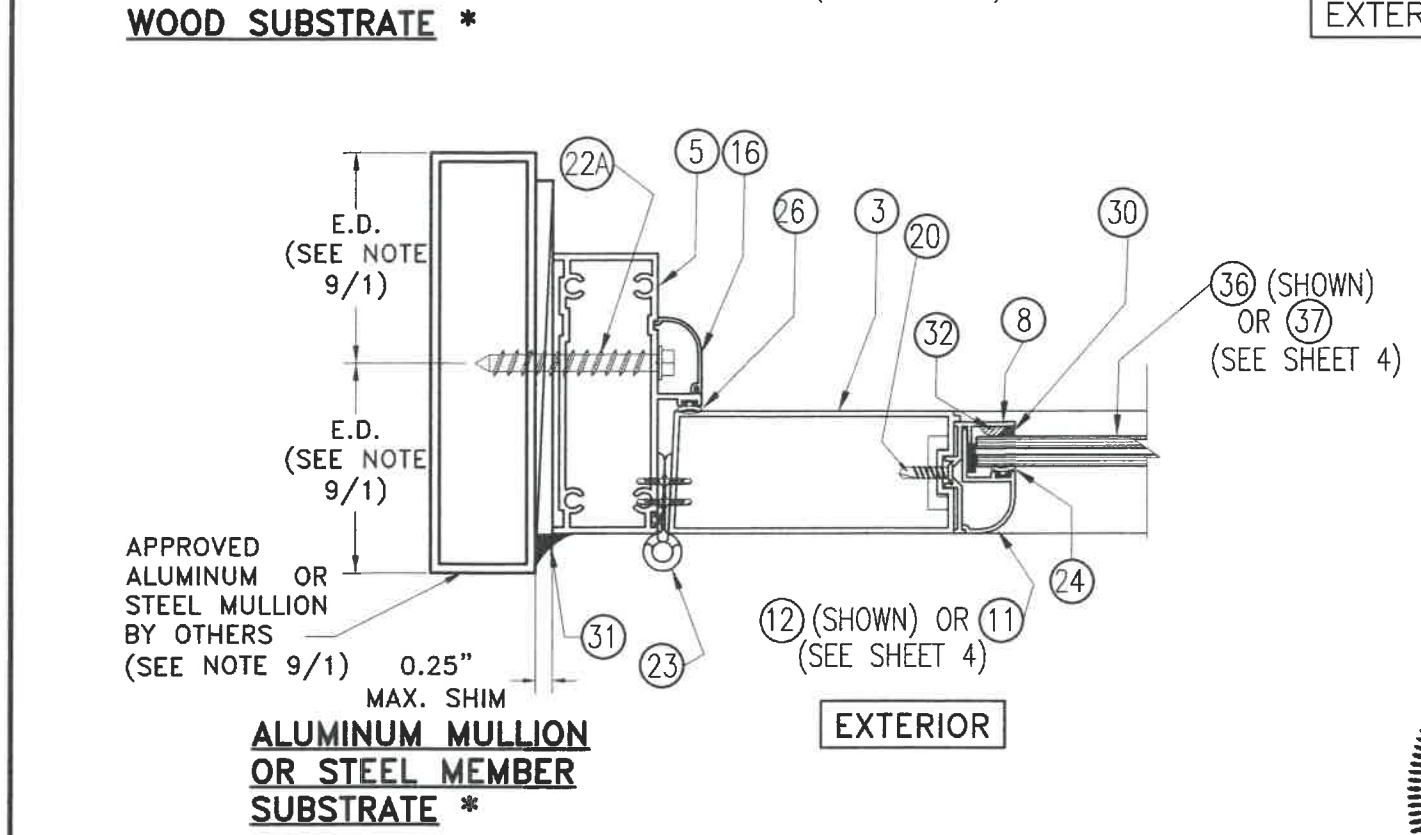
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DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 13 OF 45



* JAMB 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 JAMBS.



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

SECTION E-E @ DOUBLE DOOR OPTIONAL SYSTEM

SCALE: 3/8"=1"

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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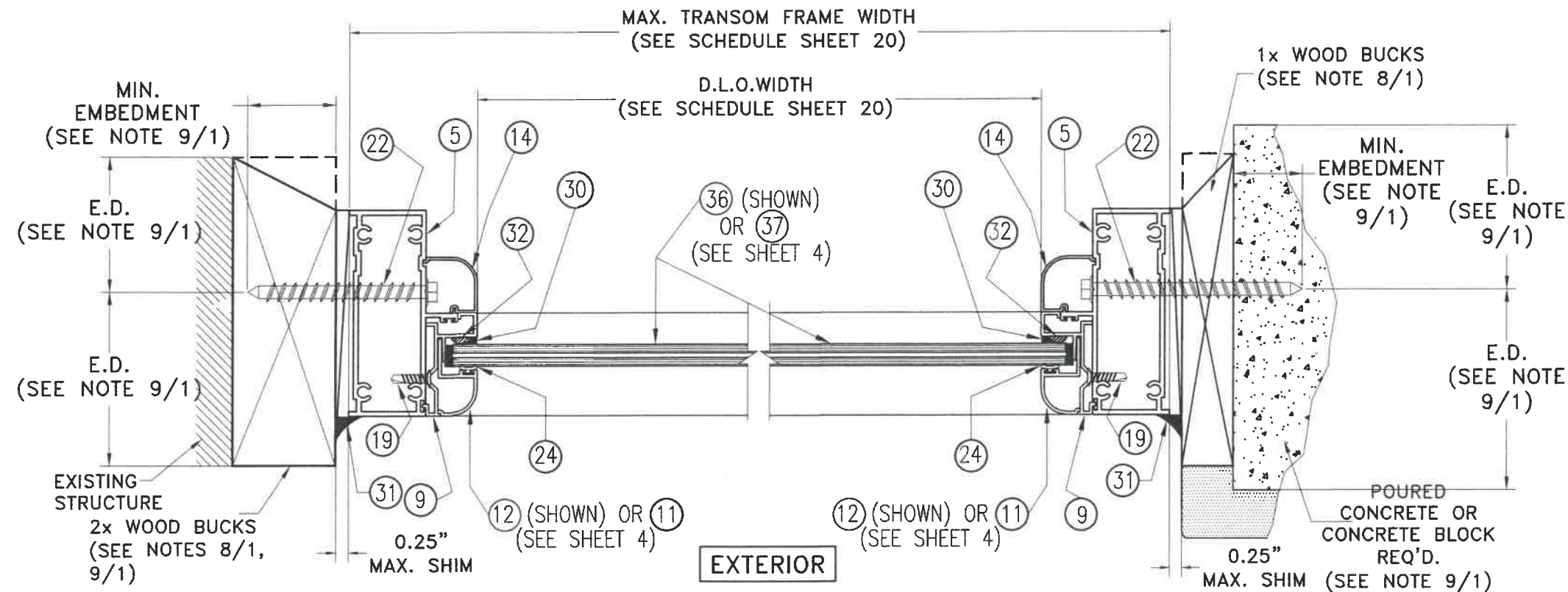
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7/28/2020
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20-179
DRAWING No

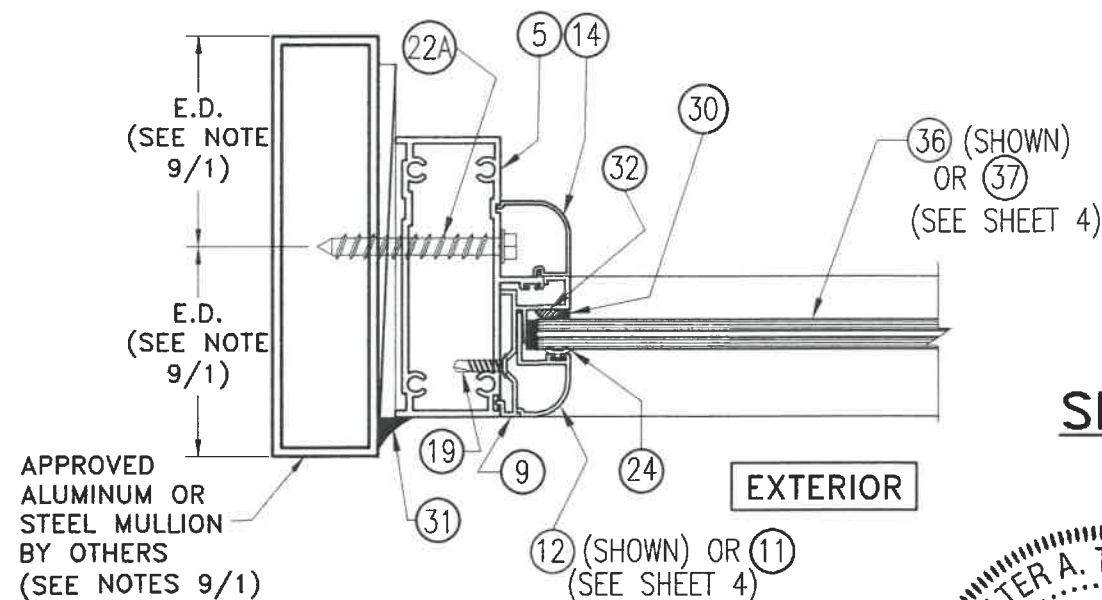
SHEET 14 OF 45

P.E. SEAL/SIGNATURE/DATE



WOOD SUBSTRATE *

**POURED CONCRETE OR
CONCRETE BLOCK
SUBSTRATE ***

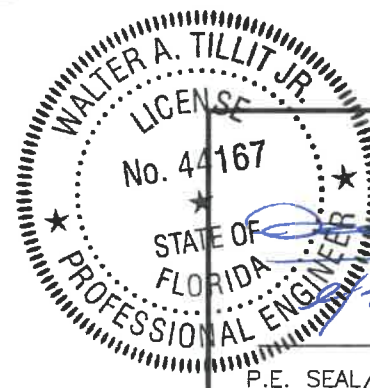


**ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE ***

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SECTION F-F @ TRANSOM OPTIONAL SYSTEM # 1

SCALE: 3/8"=1"



P.E. SEAL/SIGNATURE/DATE

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OR W/ SIDELITES**



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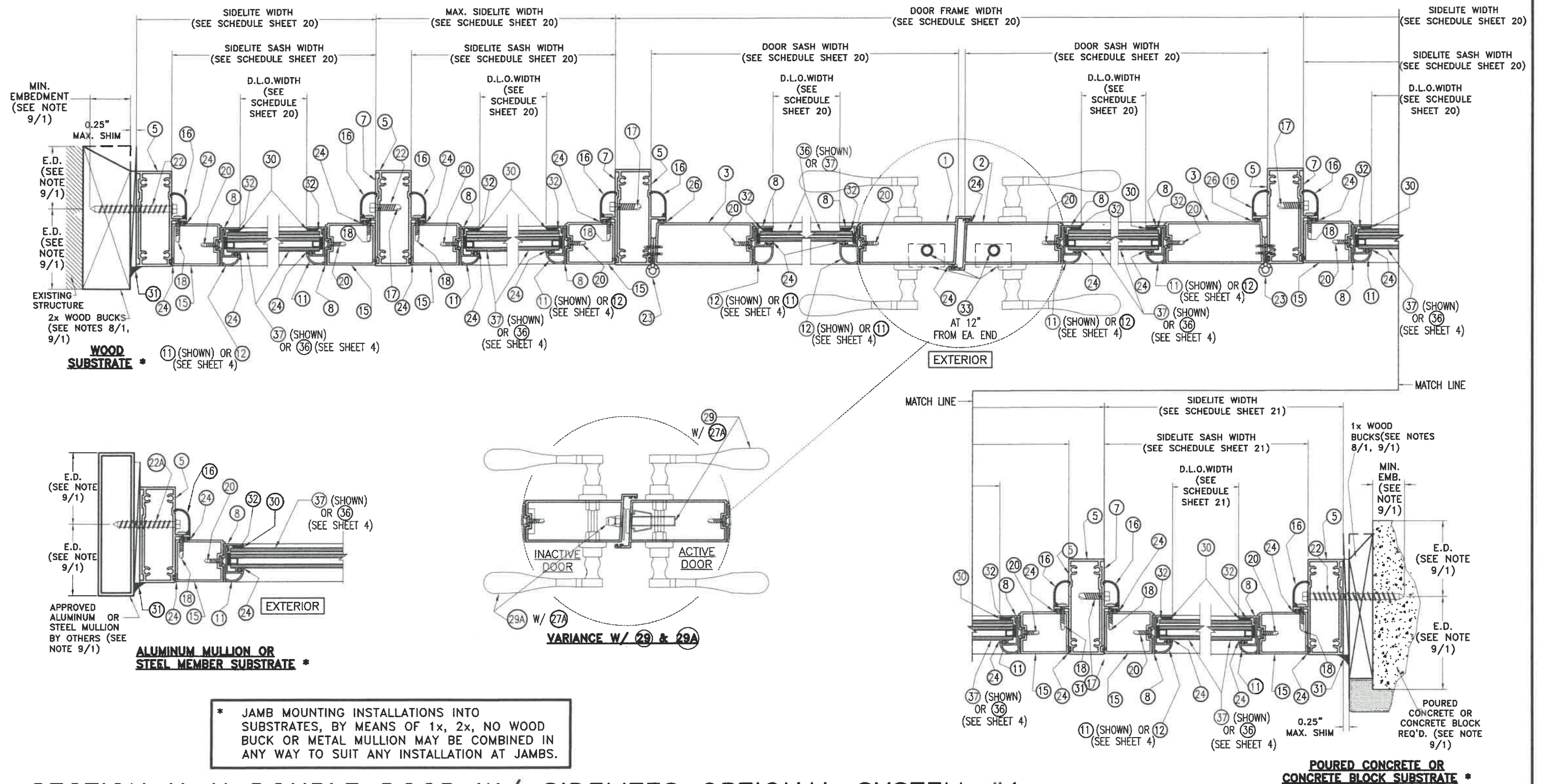
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DRAWING No

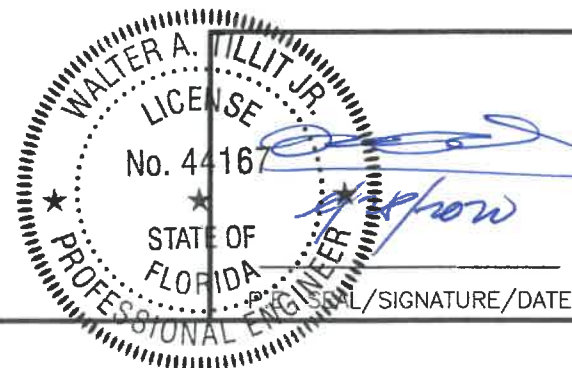
SHEET 15 OF 45

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-080	7/28/2020	3		
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SECTION H-H DOUBLE DOOR W/ SIDELITES OPTIONAL SYSTEM #1

SCALE: 1/4"=1"



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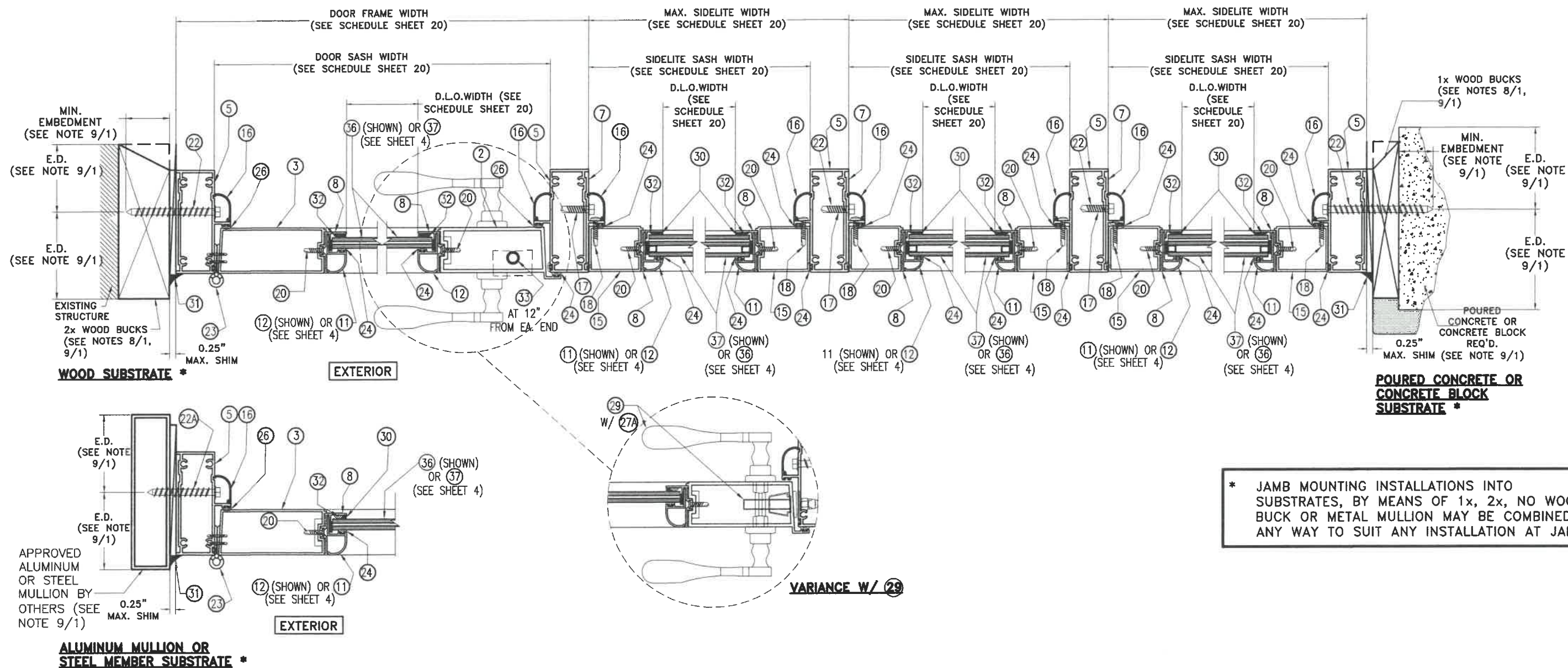
SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES

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HALEAH, FL 33014
PHONE: (305) 558-8103
FAX: (305) 558-6665
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 18-080	7/28/2020	3		
2			4		

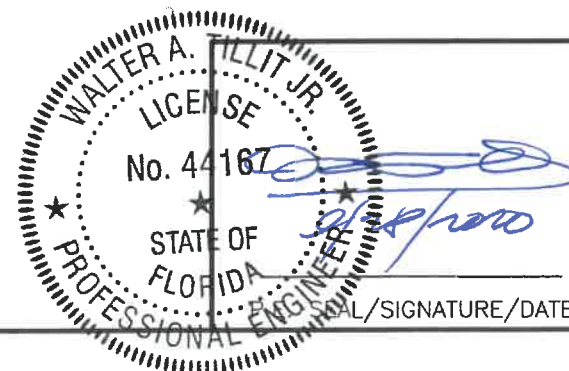
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SHEET 17 OF 45



SECTION I-I SINGLE DOOR W/ SIDELITES OPTIONAL SYSTEM #1

SCALE: 1/4"=1"

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CA-0006719

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SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES				DRAWN BY M.P.	
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				SHEET 18 OF 45	

SHEET 19 OF 45

SINGLE & DOUBLE DOOR SCHEDULE ONLY VALID
FOR DOORS W/O TRANSOM AND W/O SIDELITE : OPTIONAL SYSTEM # 1

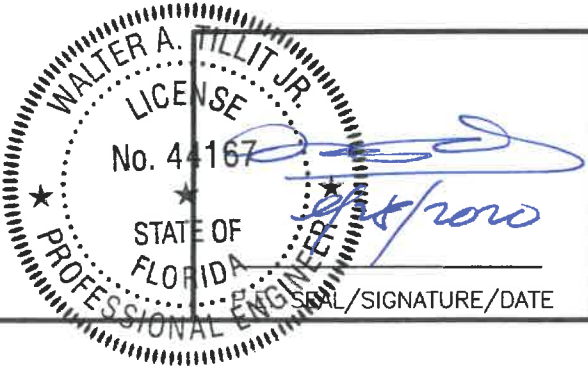
MAX. ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH		MAX. DOOR FRAME HEIGHT	MAX. DOOR SASH WIDTH *	MAX. DOOR SASH HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
	AT SINGLE DOOR	AT DOUBLE DOOR					
+45, -45 psf	3'-5 1/2"	6'-8"	10'-0"	3'-2 1/2"	9'-9 1/2"	2'-4"	8'-8"
+49, -49 psf	3'-5 1/2"	6'-8"	9'-8"	3'-2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

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
AT SINGLE DOOR	3'-5 1/2"	8'-4"	3'-2 1/2"	7'-7 5/8"	2'-4"	7'-0"
AT DOUBLE DOOR	6'-8"	8'-4"	3'-2 1/2"	7'-7 5/8"	2'-4"	7'-0"
AT SIDELITE	4'-0"	8'-4"	3'-10 1/2"	7'-7 5/8"	3'-4"	7'-0"
AT TRANSOM	6'-8"	4'-0"	-	-	6'-3"	3'-7"

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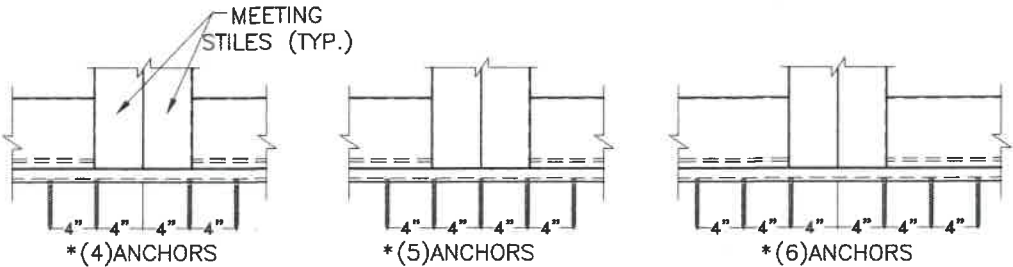
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SHEET 20 OF 45

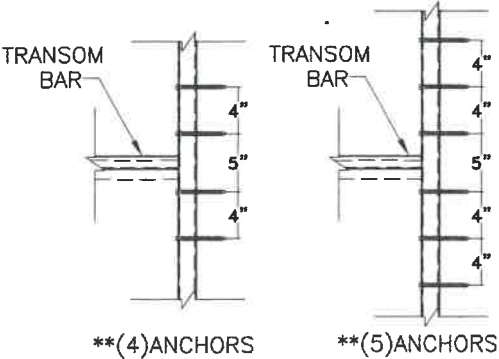
REQ'D NUMBER OF ANCHORS AT HEAD/SILL CLUSTER : OPTIONAL
OF ANCHORS AT DOUBLE DOOR, AT MEETING STILES * : SYSTEM # 1

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 : OPTIONAL
AT ENDS OF TRANSOM BAR WITH DOUBLE DOOR ** : SYSTEM # 1

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

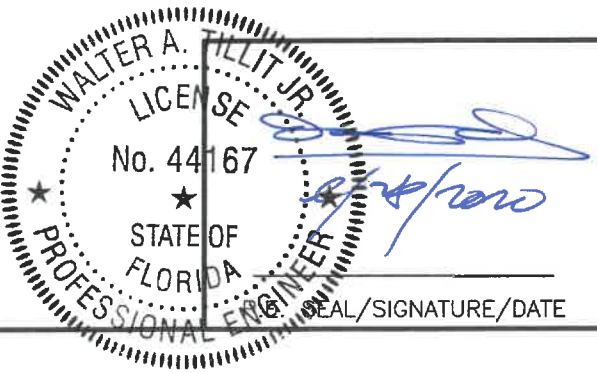
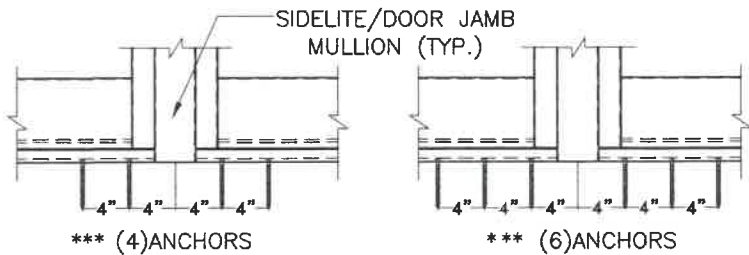


MAXIMUM ANCHOR SPACING "S" SCHEDULE : OPTIONAL
AT JAMBS OF DOOR, SIDELITE & TRANSOM : SYSTEM # 1

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 : OPTIONAL
OF ANCHORS AT SIDELITE & DOOR JAMB MULLIONS *** : SYSTEM # 1

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



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OR W/ SIDELITES**



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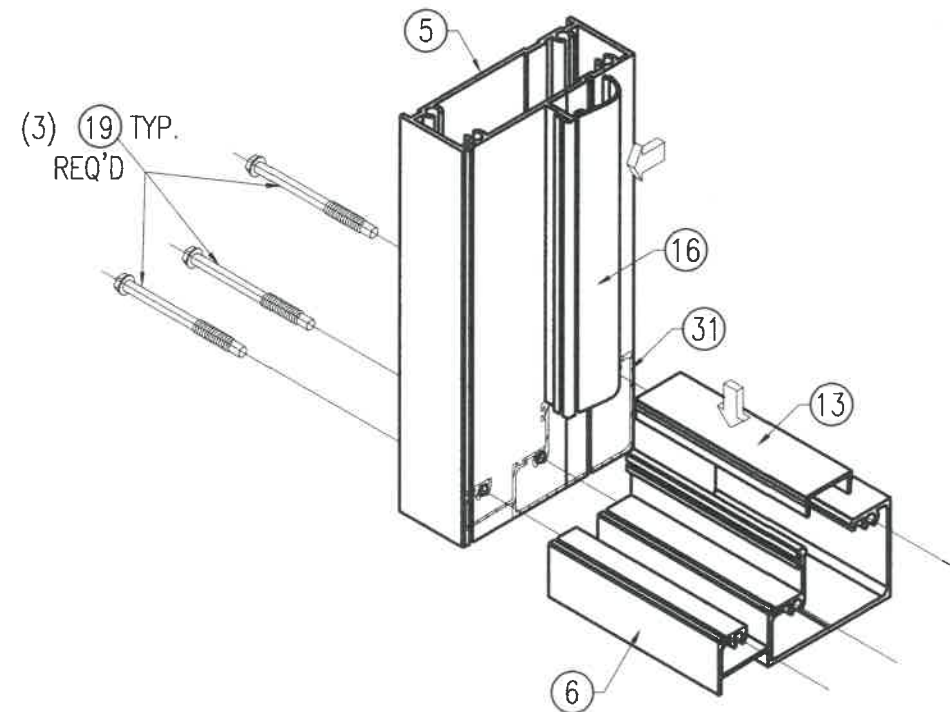
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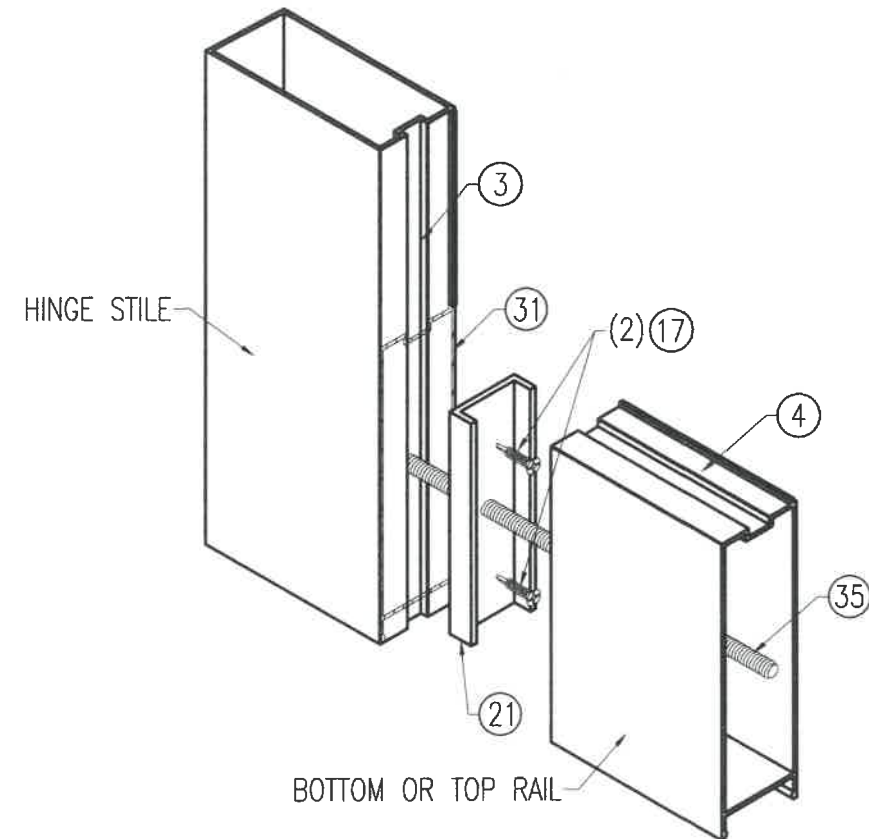
SHEET 21 OF 45

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2			4		



FRAME CORNER DETAIL

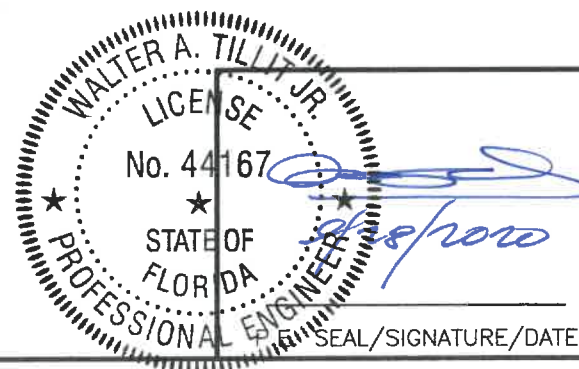
N. T. S.



DOOR CORNER FRAME DETAIL

N. T. S.

CORNER DETAILS ISOMETRIC OPTIONAL SYSTEM # 1



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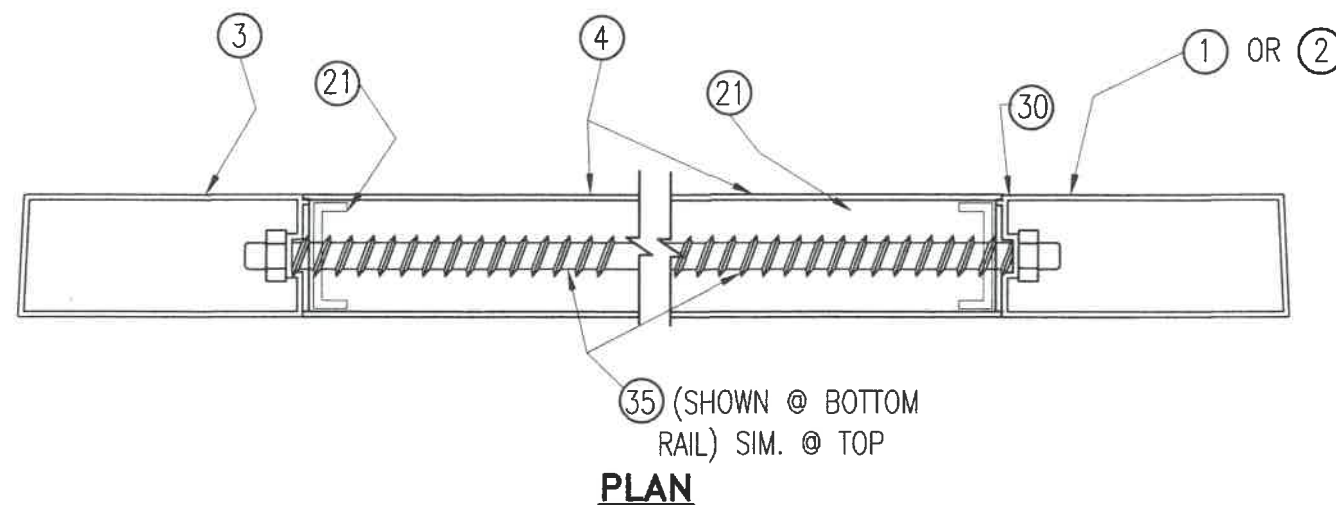
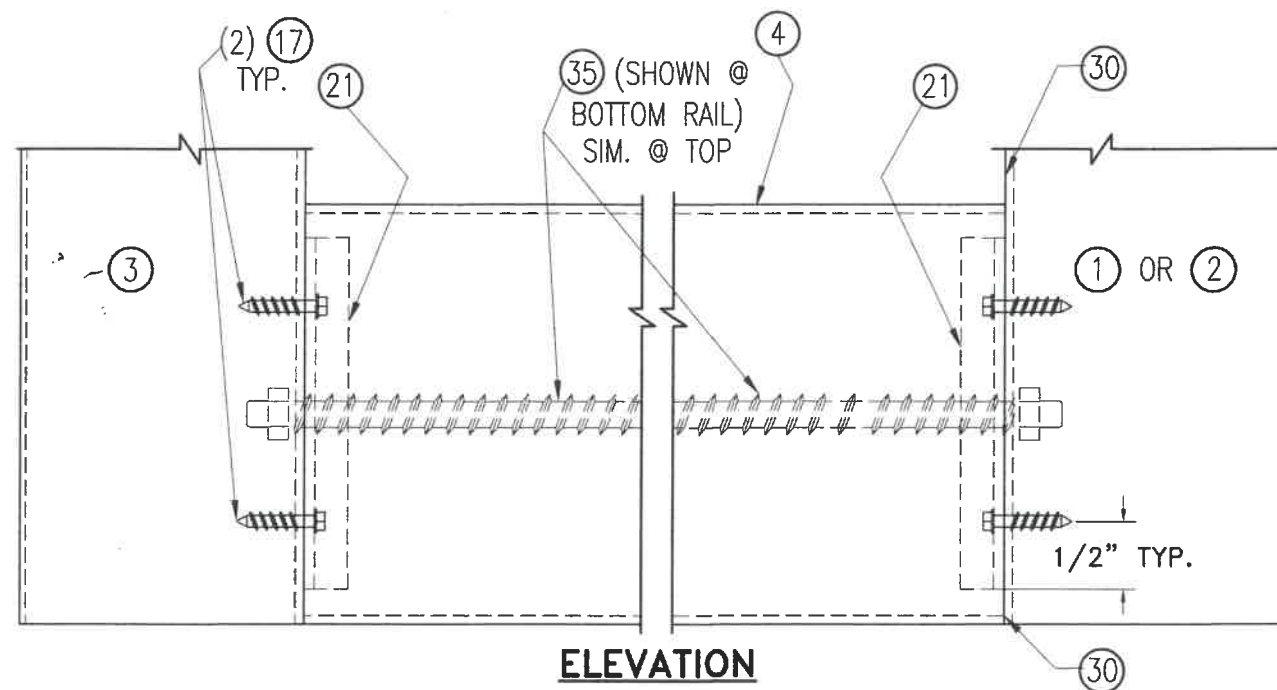
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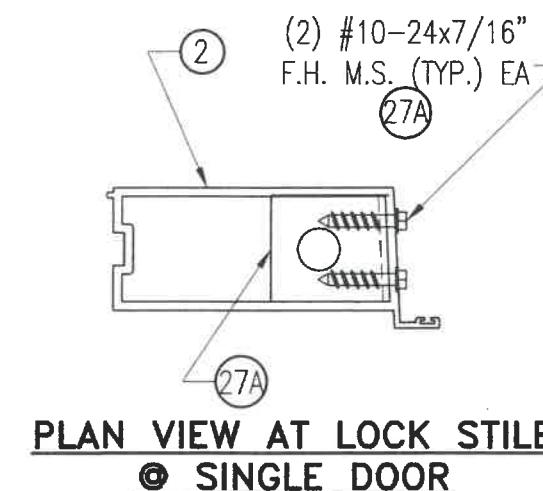
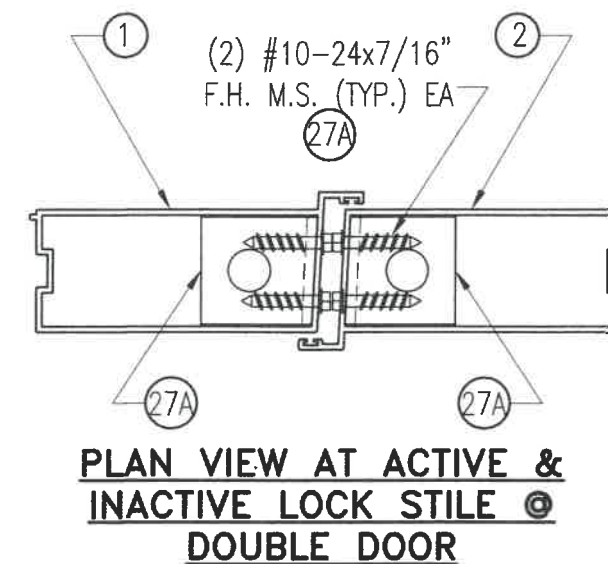
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SHEET 22 OF 45

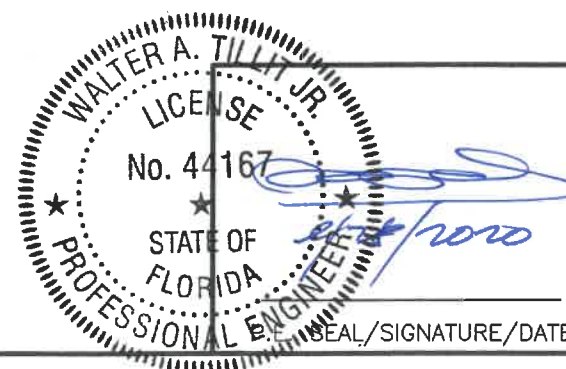
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1	OLD 19-080	7/28/2020	3		
2			4		



**DETAIL 1: TOP/BOTTOM RAIL
CONNECTION TO STILES
OPTIONAL SYSTEM # 1**
SCALE: 3/8"=1"



**SHOOT BOLT GUIDE DETAIL
AT TOP & BOTTOM STILES**
SCALE: 3/8"=1"



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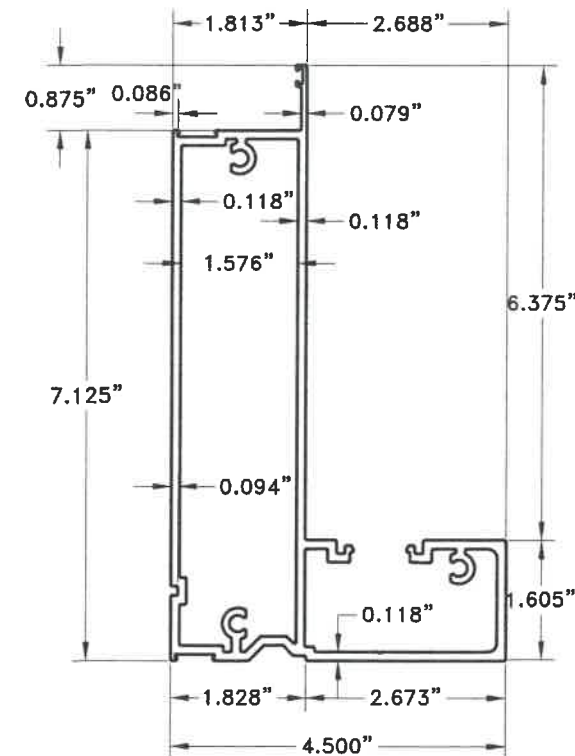
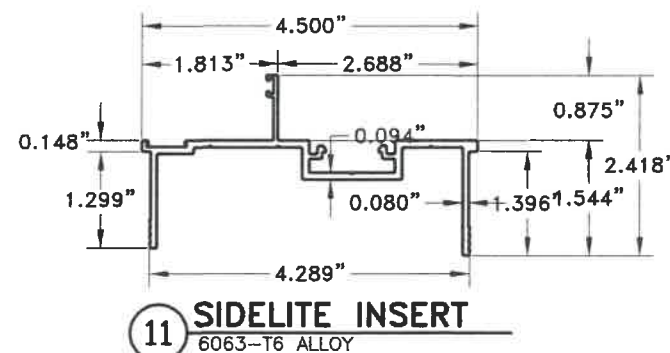
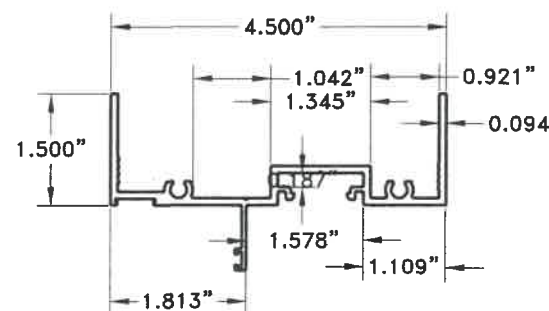
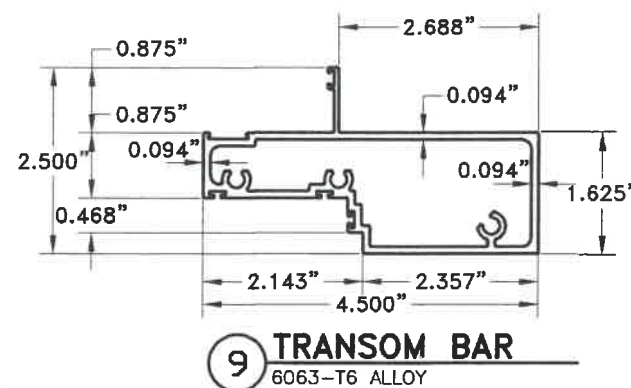
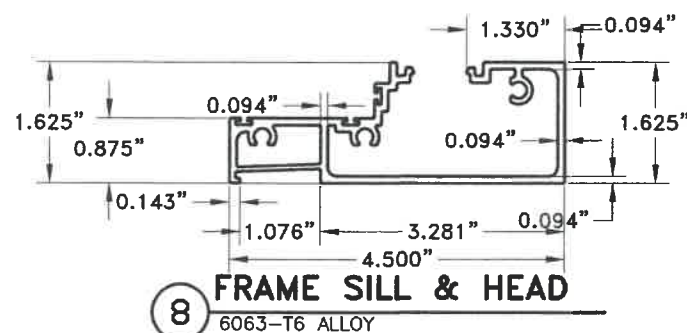
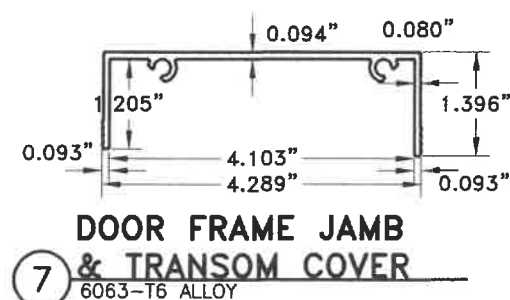
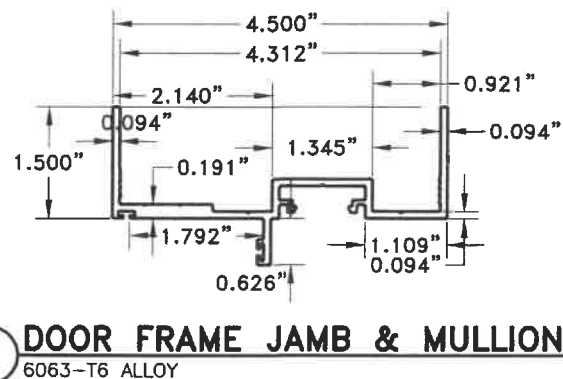
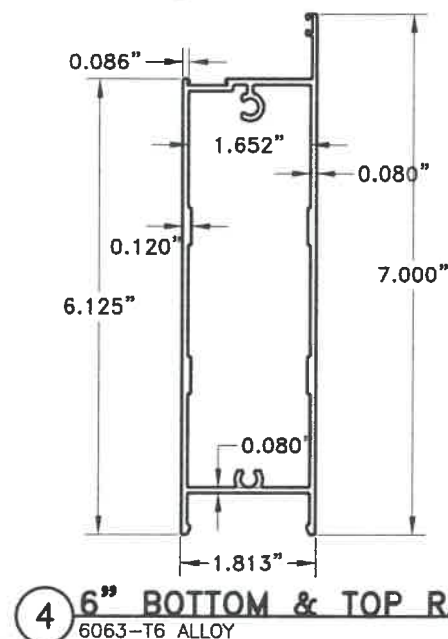
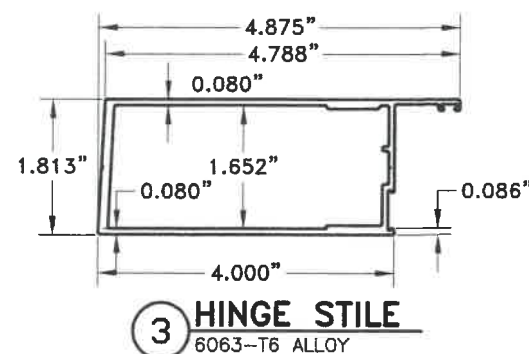
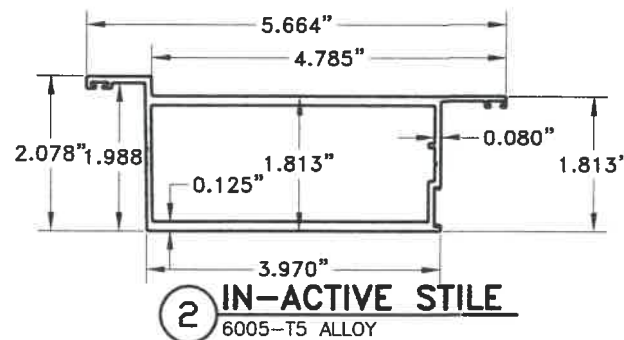
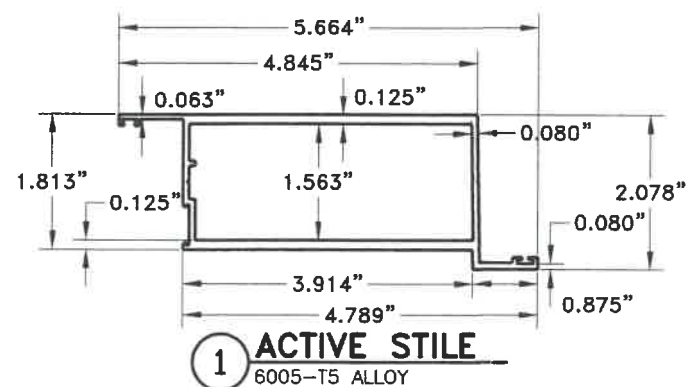
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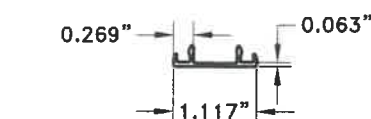
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SHEET 23 OF 45

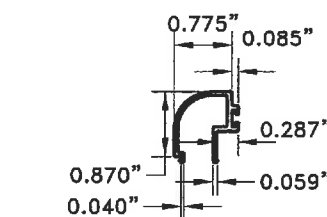
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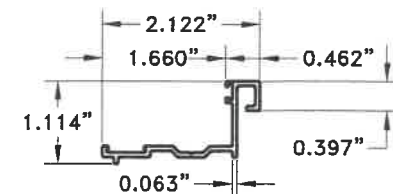
12 SIDELITE FRAME SILL & HEAD
6063-T6 ALLOY



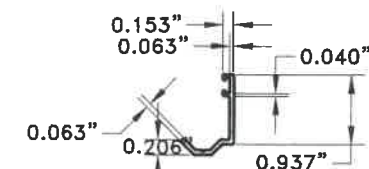
13 DOOR HEAD & SILL COVER
6063-T6 ALLOY



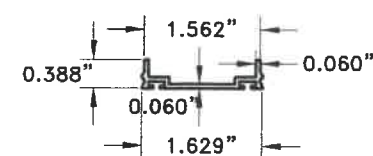
16 LAMINATED GB
6063-T6 ALLOY



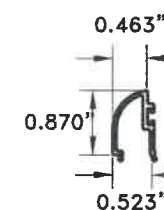
14A DOOR JAMB TRANSOM GLAZING ADAPTER
6063-T6 ALLOY



14B TRANSOM GLAZING ADAPTER
6063-T6 ALLOY



15 WEATHER STRIP ADAPTER
6063-T6 ALLOY



17 INSULATED GB
6063-T6 ALLOY

COMPONENTS (OPTIONAL SYSTEM # 2)

N.T.S



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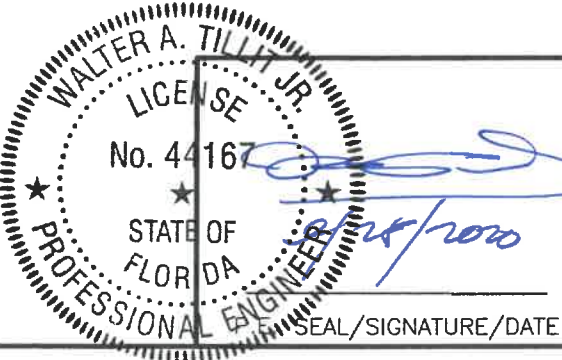
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SHEET 24 OF 45

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 18-080	7/28/2020	5		
2			4		

BILL OF MATERIALS (OPTIONAL SYSTEM # 2)			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
1	ACTIVE LOCK STILE	SEE SHEET 24	6063-T6
2	INACTIVE LOCK STILE	SEE SHEET 24	6063-T6
3	HINGE STILE	SEE SHEET 24	6063-T6
4	6" BOTTOM & TOP RAIL	SEE SHEET 24	6063-T6
6	DOOR FRAME JAMB & MULLION	SEE SHEET 24	6063-T6
7	DOOR FRAME JAMB & TRANSOM COVER	SEE SHEET 24	6063-T6
8	FRAME SILL & HEAD	SEE SHEET 24	6063-T6
9	TRANSOM BAR	SEE SHEET 24	6063-T6
10	TRANSOM HEAD & SIDELITE MULLION	SEE SHEET 24	6063-T6
11	SIDE LITE INSERT	SEE SHEET 24	6063-T6
12	SIDELITE FRAME SILL & HEAD	SEE SHEET 24	6063-T6
13	DOOR HEAD & SILL COVER	SEE SHEET 24	6063-T6
14A	DOOR JAMB TRANSOM GLAZING ADAPTER	SEE SHEET 24	6063-T6
14B	TRANSOM GLAZING ADAPTER	SEE SHEET 24	6063-T6
15	WEATHER STRIP ADAPTER	SEE SHEET 24	6063-T6
16	LAMINATED GLAZING BEAD	SEE SHEET 24	6063-T6
17	INSULATED GLAZING BEAD	SEE SHEET 24	6063-T6
18A	GLAZING PUSH-IN GASKET	0.157"x0.295" (EXTRUSIONS)	EPDM
18B	GLAZING PUSH-IN GASKET	0.290"x0.280" (EXTRUSIONS)	EPDM
19	#14 x 2 1/2" H.H SCREW	FRAME ASSEMBLY & PANELS ASSEMBLY -180 Ksi TENSILE STRENGTH	STEEL
20	#10 x 1" F.H. S.S. TEK SCREW @ 8" O.C.	TRANSOM GLAZING ADAPTER	STEEL
21	1/4"-Ø-20X1" PAN HEAD S.S. THRU BOLT W/ NUT @ 12" O.C. (START @ 6" O.C. FROM TOP/BOTTOM)	MULLION ASSEMBLY BOLT	STEEL
22	TAPCON (ITW/BUILDEX) CONCRETE ANCHOR	1/4" Ø - SEE GENERAL NOTE ON SHEET 1	STEEL
22A	TEK SCREW (ITW/BUILDEX)	1/4" Ø - SEE GENERAL NOTE 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	T-SLOT EXTRUDED SEAL	0.250"x0.300" (ULTRAFAB)	VINYL
25	FIN SEAL PILE W/ PLASTIC	ULTRAFAB	
26	SEAL WEATHER STRIPPING	PRO-LON (GLAZING BEAD)	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/ CYLINDER, LATCH & DEAD BOLT STRIKE, LEVER COMPRESSION LOCK	MANUFACTURED BY ASSA ABLOY	
29A	2 POINT LOCK ACTIVE HANDLE 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
33	FLUSH BOLT	HARDWARE (OPTION TO 3 AND 2 POINT LOCK) ASSA ABLOY, 7 mm ROD W/ (2) # 8 x 1/2" SMS TO STILE	PLATED STEEL
34	SETTING BLOCK		E.P.D.M.
35	WEEP HOLES	1/16" HIGH x 1 15/16" LONG @ THRESHOLD (2 PER DOOR)	



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

CA-0006719

WALTER A. TILLIT Jr. P.E.

FLORIDA Lic. # 44167

SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES

GENERAL

IMPACT GLASS & WINDOWS

The Clear Solution

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HIALEAH, FL 33014
PHONE: (305) 558-8103
FAX: (305) 558-6665
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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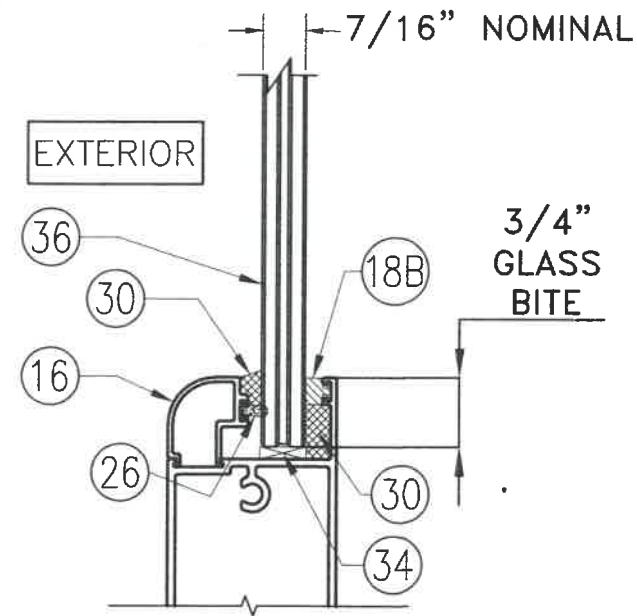
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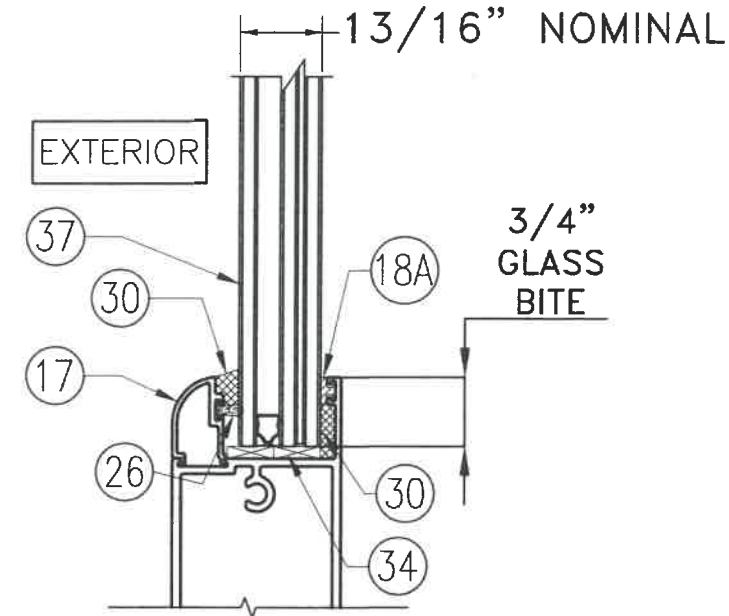
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SHEET 25 OF 45

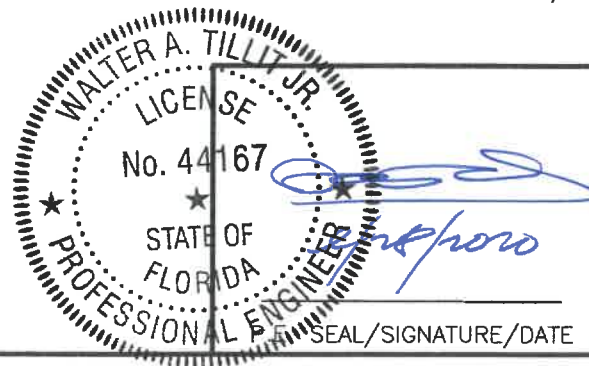
BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
36	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" DUPONT TROSIFOL INTERLAYER BY KURARAY AMERICA INC., + 3/16" H.S. GLASS.	GLASS
37	13/16" INSULATED-LAMINATED GLASS W/ 3/16" TEMPERED GLASS OUT BOARD -1/4 ARGON SPACER + 3/16 H.S.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



GLAZING DETAIL 1
AT 36
SCALE: 1/2"=1"

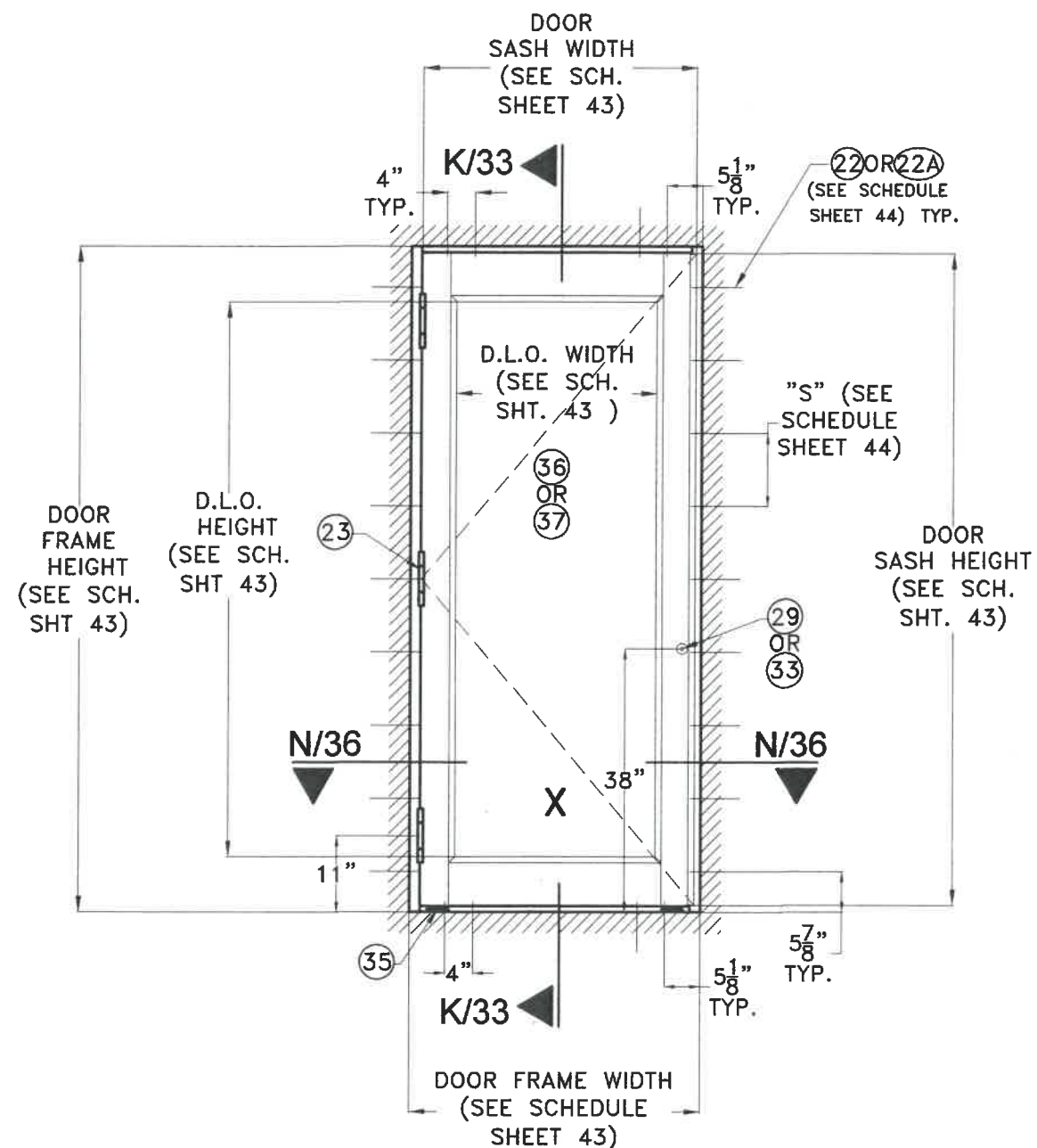


GLAZING DETAIL 2
AT 37
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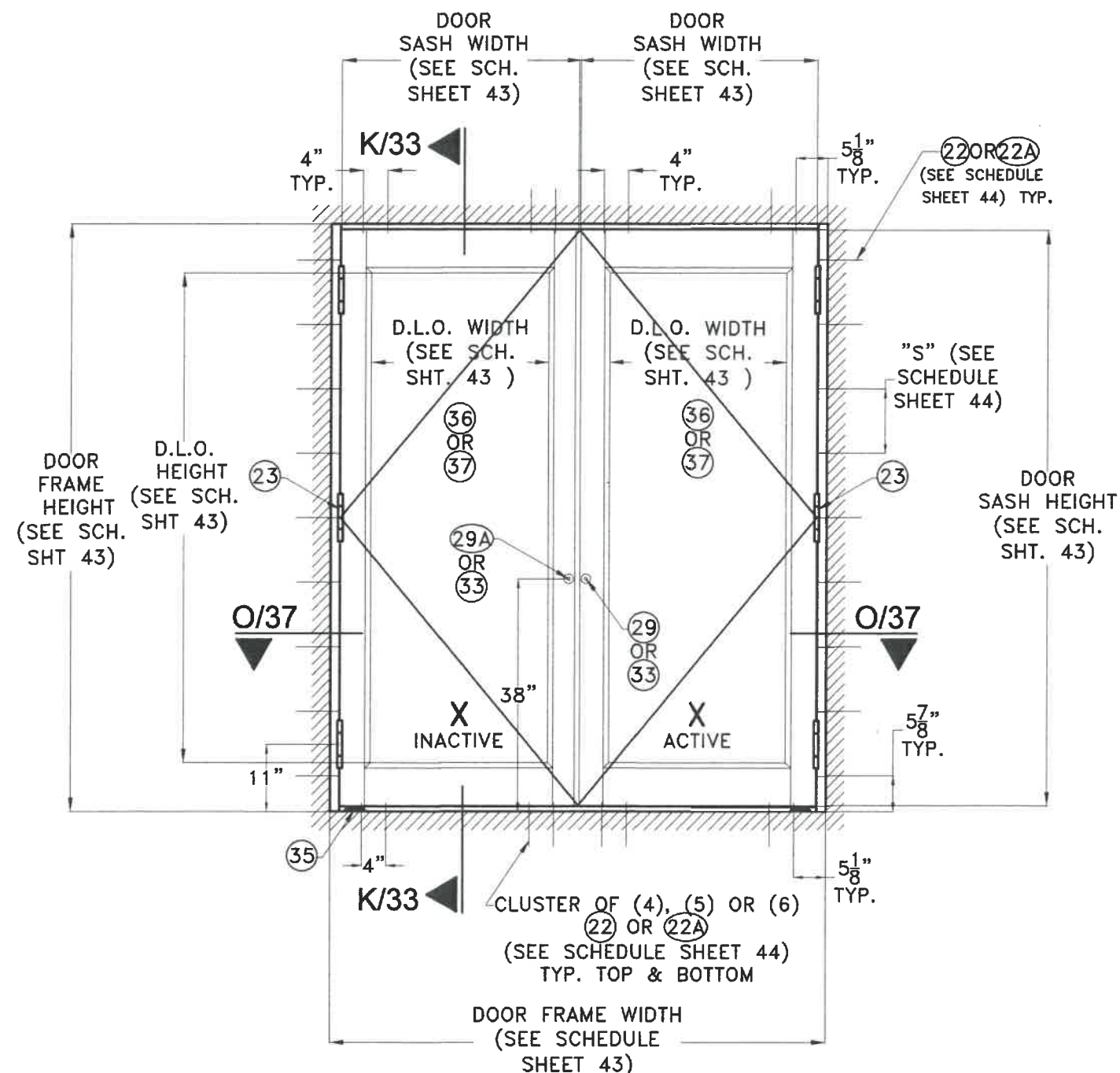


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REV. No		DESCRIPTION		DATE
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2				
		REV. No		DESCRIPTION
		3		
		4		
		20-179 DRAWING No		SHEET 26 OF 45



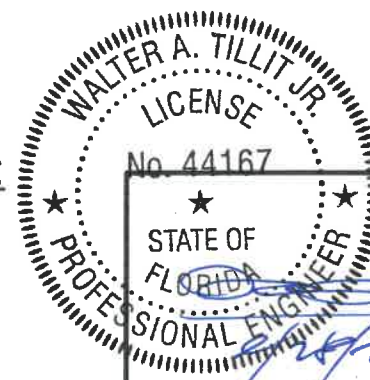
**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR**



**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR**

**TYPICAL EXTERIOR ELEVATIONS FOR SINGLE &
DOUBLE DOOR W/O TRANSOM NOR SIDELITES
OPTIONAL SYSTEM # 2**

1/2"=1'-0"



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OR W/ SIDELITES**



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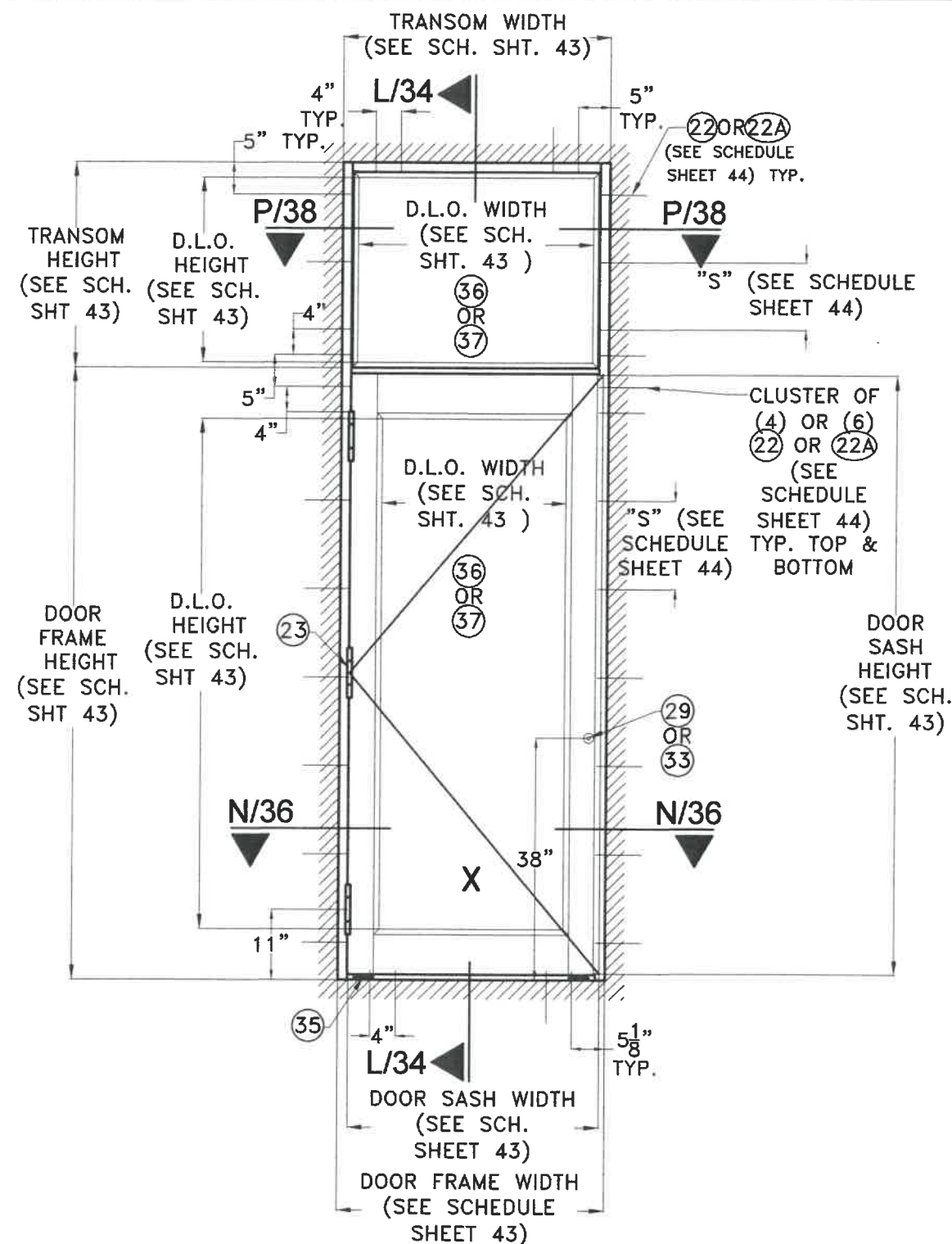
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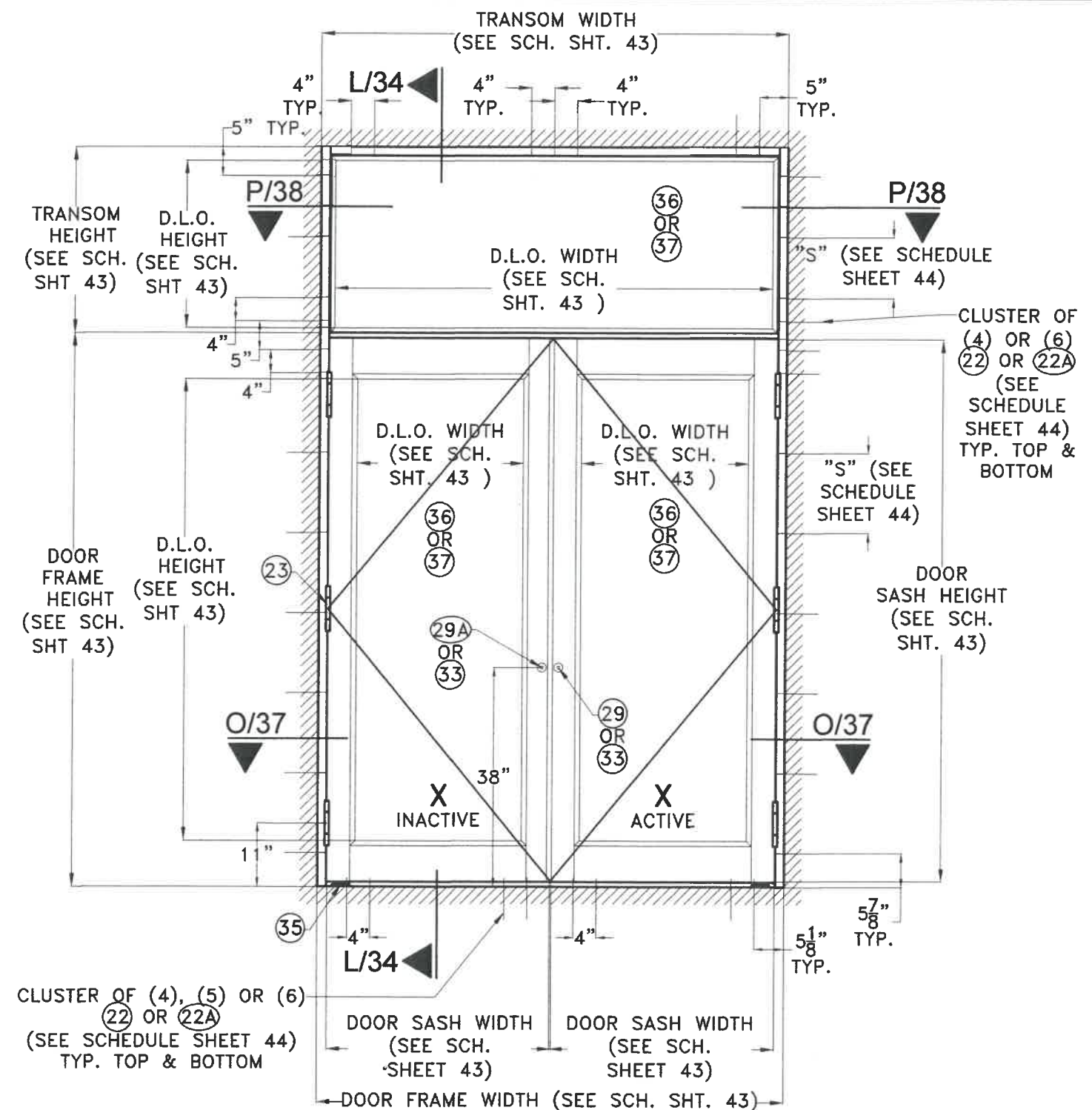
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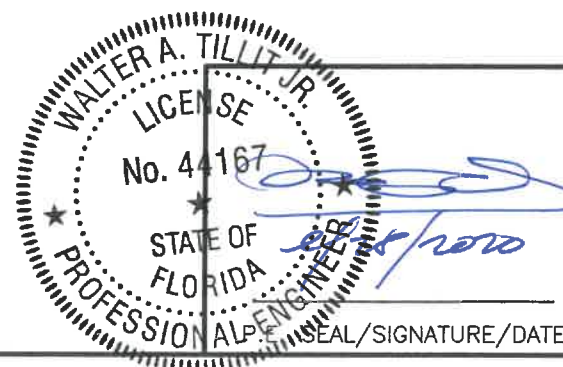


TYPICAL EXTERIOR ELEVATION
SINGLE DOOR W/ TRANSOM

TYPICAL EXTERIOR ELEVATIONS FOR SINGLE
& DOUBLE DOOR W/ TRANSOM
OPTIONAL SYSTEM # 2

$$1/2'' = 1' - 0''$$


TYPICAL EXTERIOR ELEVATION DOUBLE DOOR W/ TRANSOM



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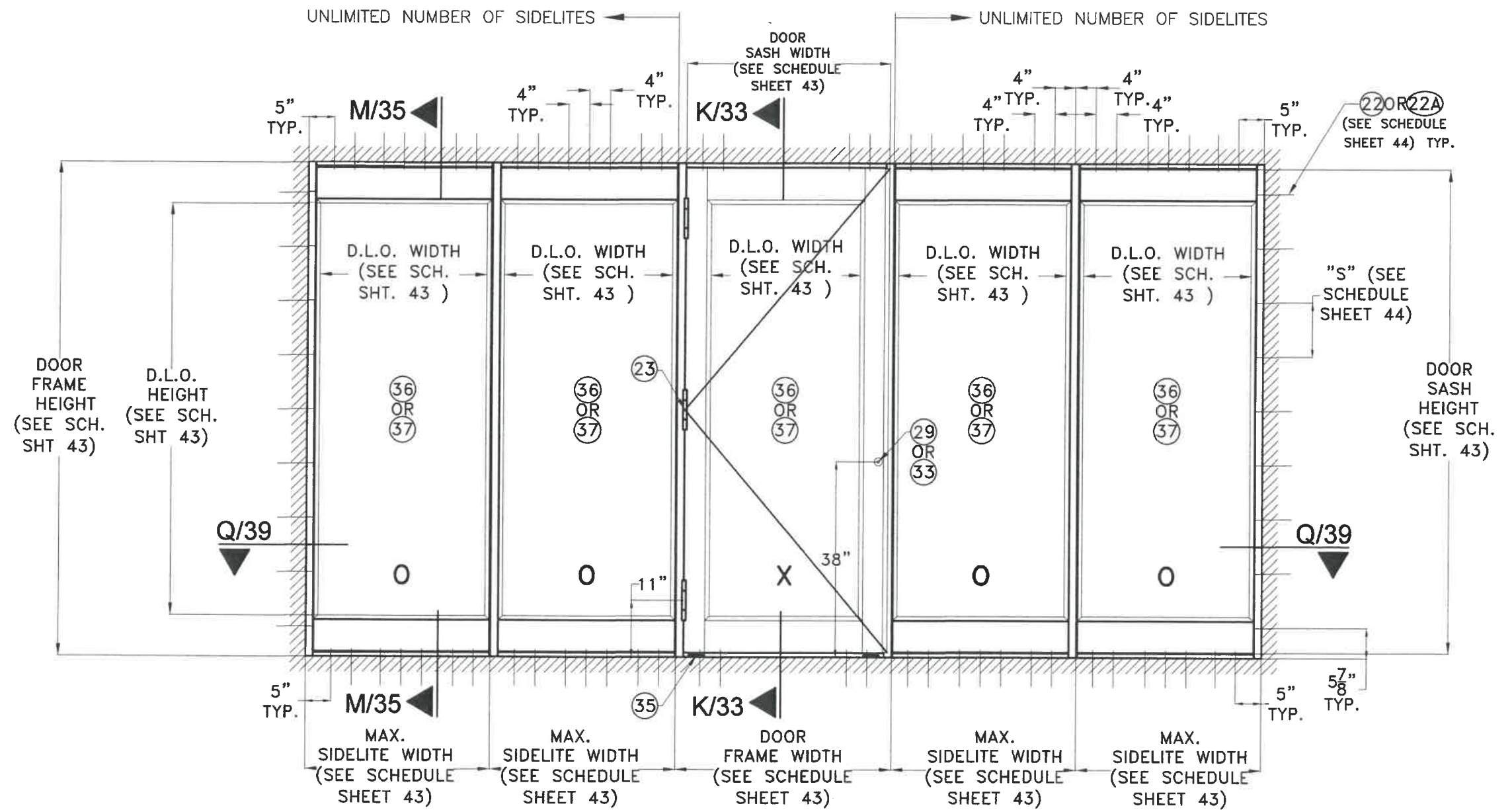
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DRAWING No

SHEET 28 OF 45

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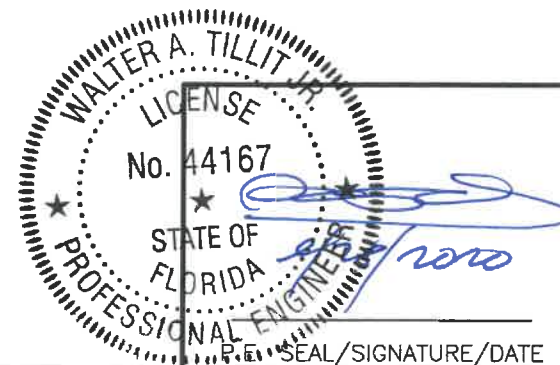


TYPICAL EXTERIOR ELEVATION OF SINGLE DOOR W/ SIDELITES * **OPTIONAL SYSTEM # 2**

1/2"=1'-0"

NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDE LITES TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
- (I.1) INTERIOR MULLIONS BETWEEN SIDE LITES SHALL ALWAYS CONSIST OF MULLION DESCRIBED ON SECTIONS M.N.O.P. SHEETS 35 THRU 38 OF DRAWING 20-179
 - (I.2) DOOR JAMB MULLIONS SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS M.N.O.P. SHEETS 33 THRU 38 OF DRAWING 20-179.
 - (I.3) JAMBS SHALL ALWAYS BE ATTACHED TO EXISTING SUBSTRATES W/ ANCHORS AS PER GENERAL NOTE 9, SHEET 1 & AS SPACINGS PER SCHEDULE ON SHEET 43 OF DRAWING 20-179.
 - (I.4) TOP & BOTTOM ANCHORS FOR INTERMEDIATE SIDE LITES MULLION AS WELL AS DOOR JAMB MULLIONS SHALL BE AS INDICATED ON ELEVATIONS SHEETS 38 THRU 40 OF DRAWING 20-179 AND SCHEDULES ON SHEET 43.
- (II) SUCCESSIVE SIDE LITES MAY BE INSTALLED AT RESIDENTIAL BUILDINGS AS LONG AS THE FOLLOWING PROCEDURE AND REQUIREMENTS APPLY.
- (II.1) JAMBS ARE ATTACHED TO EXISTING SUBSTRATE AT BUILDINGS W/ANCHORAGE AS PER SCHEDULES ON SHEET 43.
 - (II.2) INTERIOR MULLIONS ARE PROVIDED BETWEEN SIDE LITES & CONSIST OF MULLIONS DESCRIBED ON SECTIONS M.N.O.P. SHEETS 35 THRU 38 OF DRAWING 20-179.
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OR W/ SIDELITES**



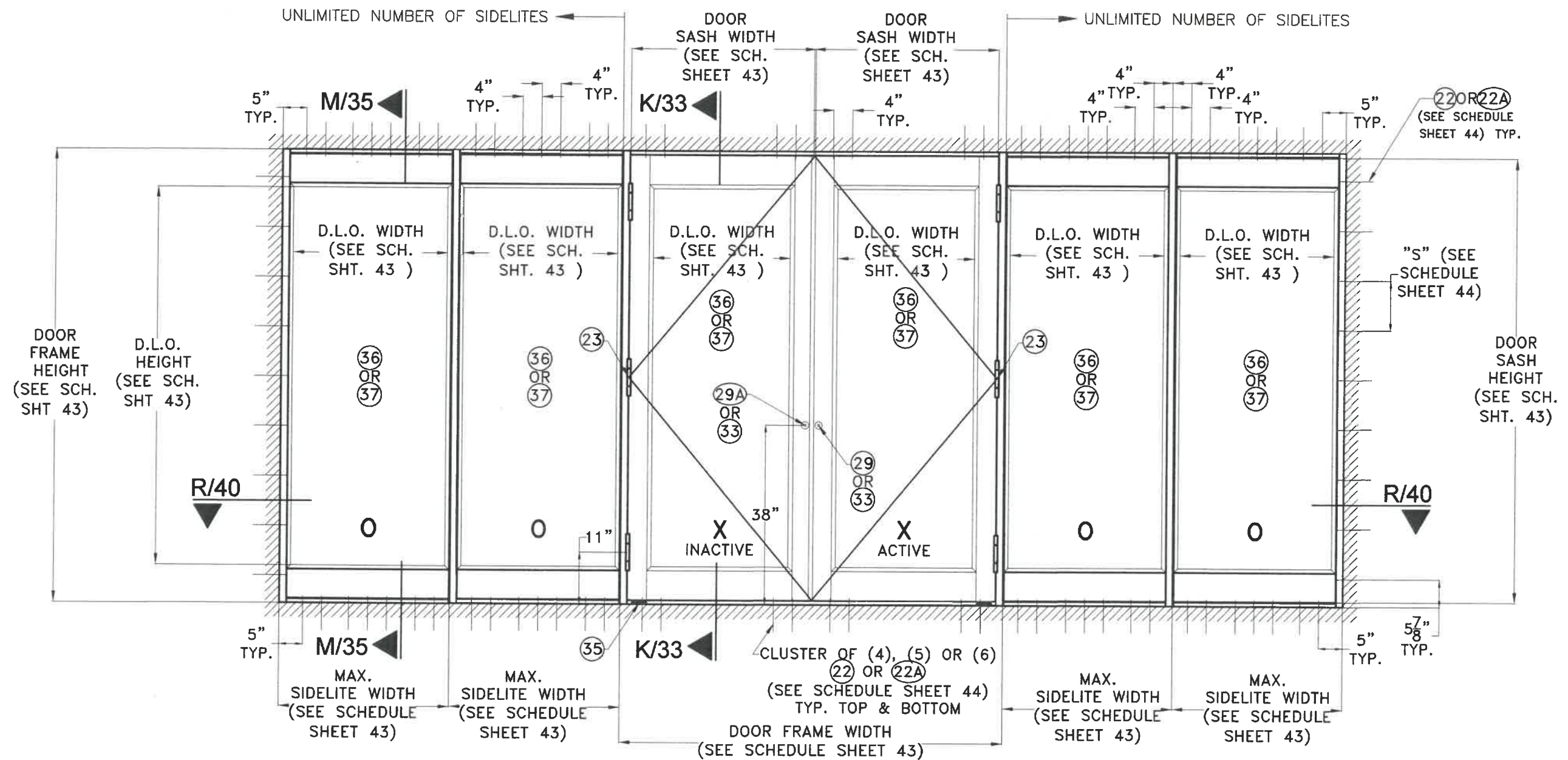
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SHEET 29 OF 45



**TYPICAL EXTERIOR ELEVATION OF
DOUBLE DOOR W/ SIDELITES ***
OPTIONAL SYSTEM # 2

1/2"=1'-0"

NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDE LITES TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
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OR W/ SIDELITES**



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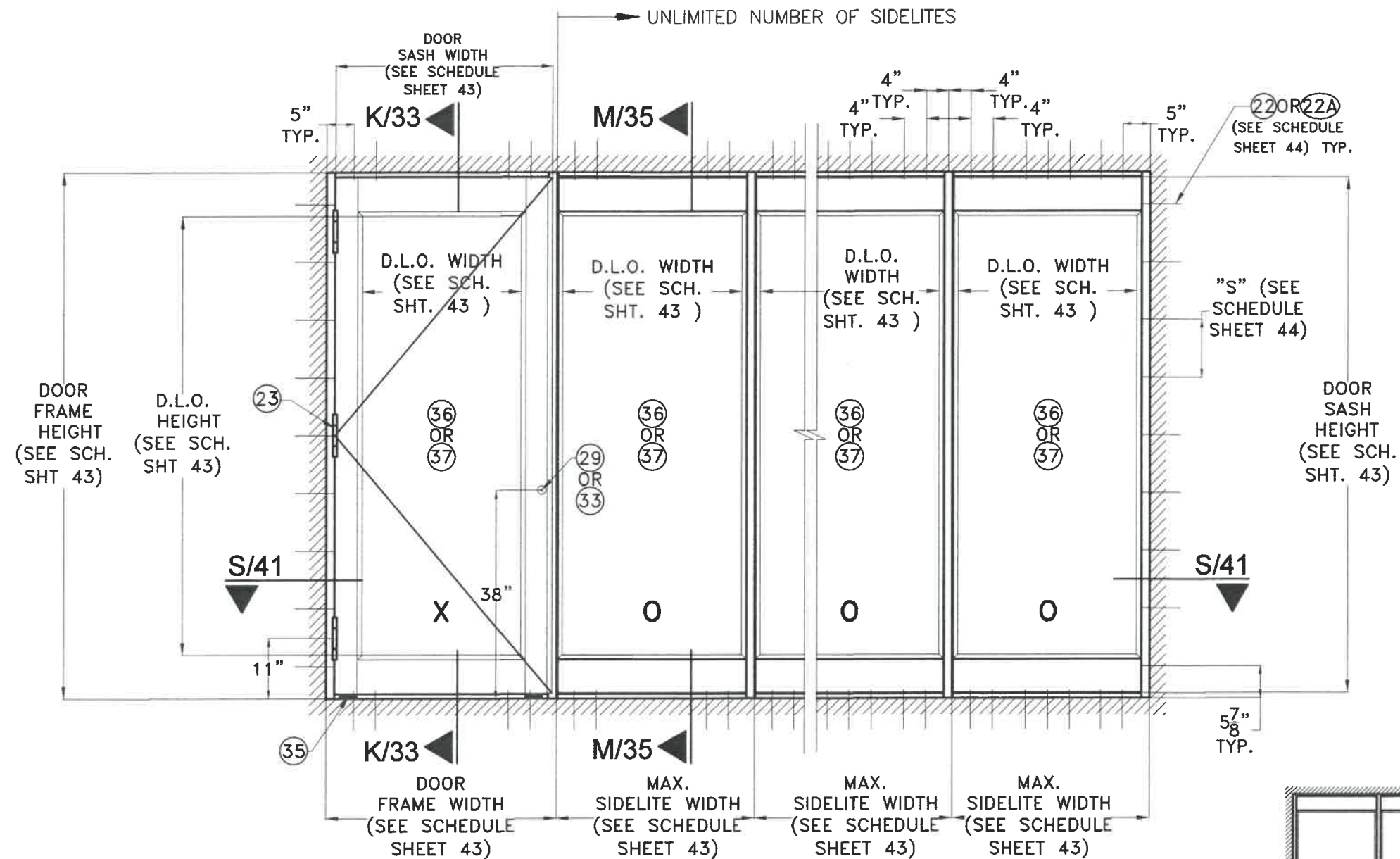
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DATE

20-179
DRAWING No

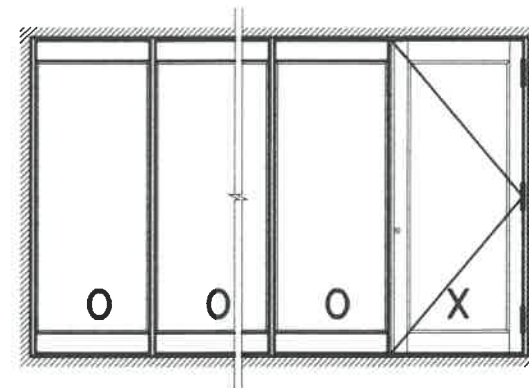
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		



**TYPICAL EXTERIOR ELEVATION OF
SINGLE DOOR W/ SIDELITES **, **
OPTIONAL SYSTEM # 2**

1/2"=1'-0"

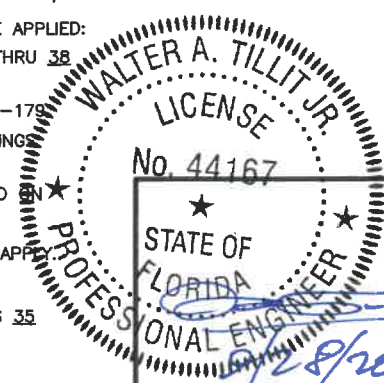


NOTE: *

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**** QUALIFIES MIRROR CONFIGURATION TOO.**

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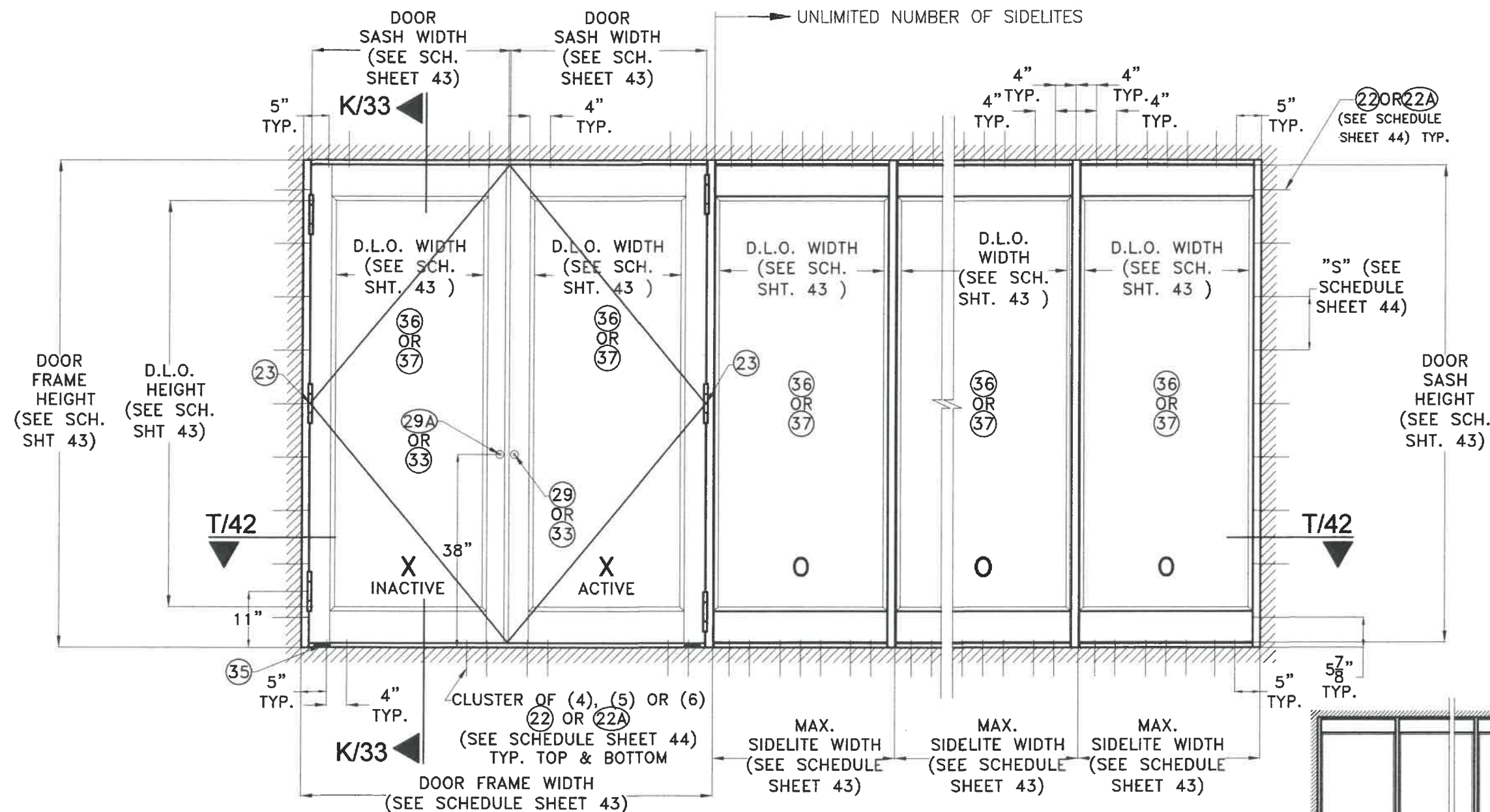
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2			4		

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20-179
DRAWING No

SHEET 31 OF 45



**TYPICAL EXTERIOR ELEVATION OF
DOUBLE DOOR W/ SIDELITES *, **
OPTIONAL SYSTEM # 2**

1/2"=1'-0"

** QUALIFIES MIRROR CONFIGURATION TOO.

NOTE: *

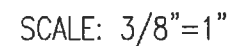
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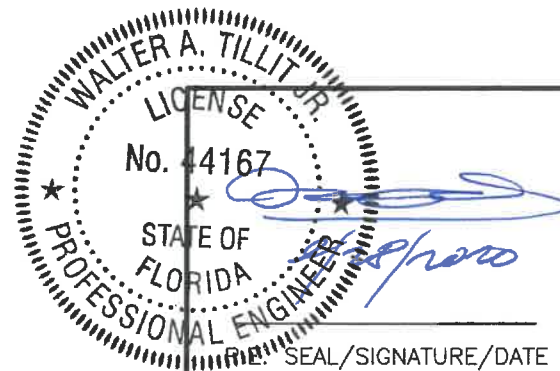
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WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		GENERAL IMPACT GLASS & WINDOWS The Clear Solution		20-179 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 18-080	7/28/2020	3		
2			4		
					SHEET 32 OF 45



* 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.



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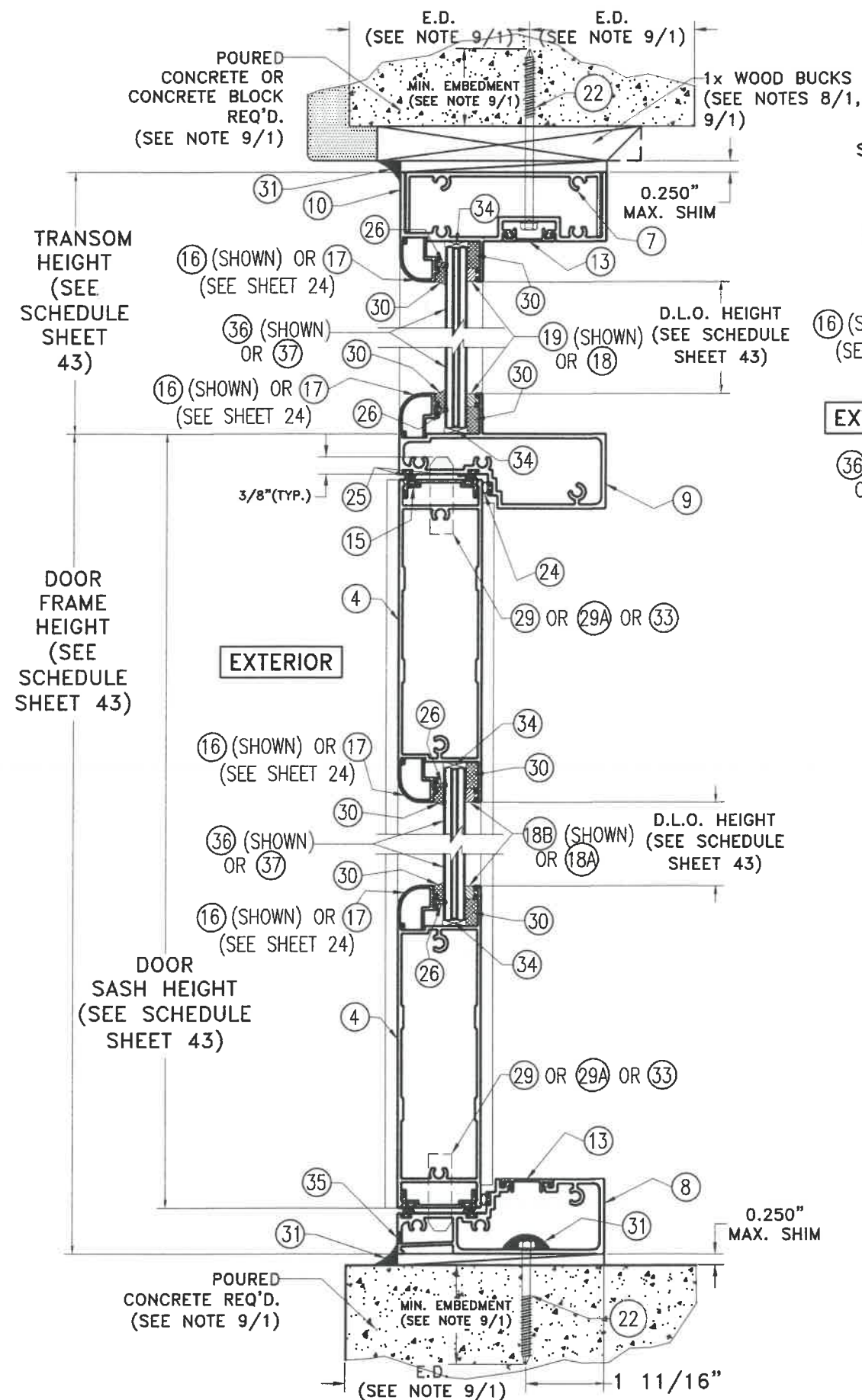
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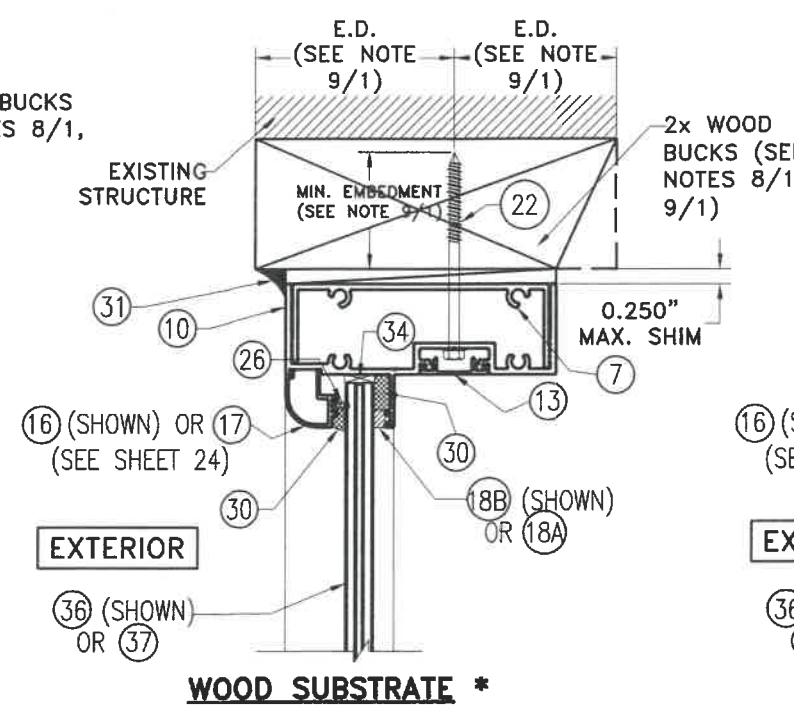
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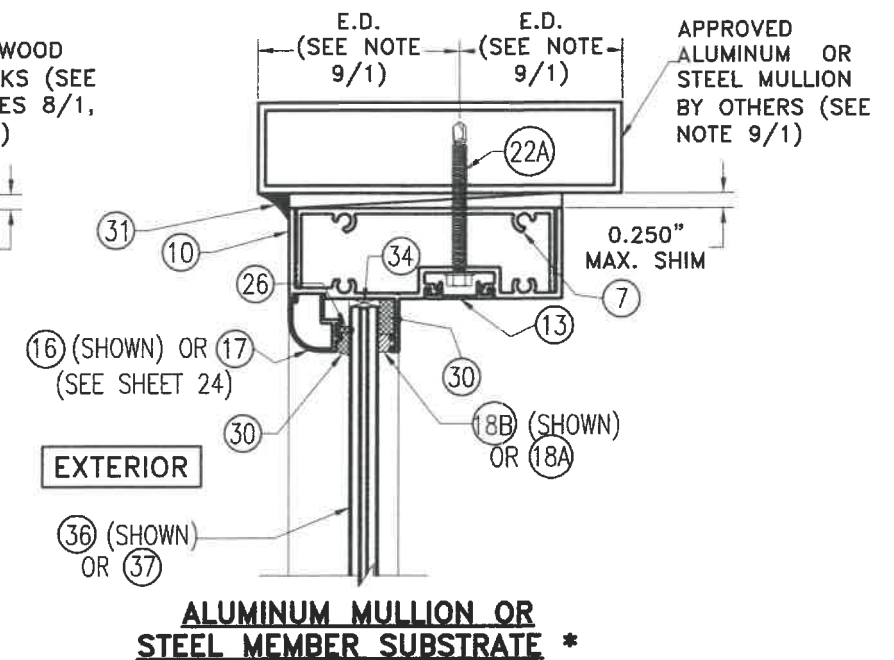
ET 33 OF 45



POURED CONCRETE OR CONCRETE BLOCK SUBSTRATE *



WOOD SUBSTRATE *

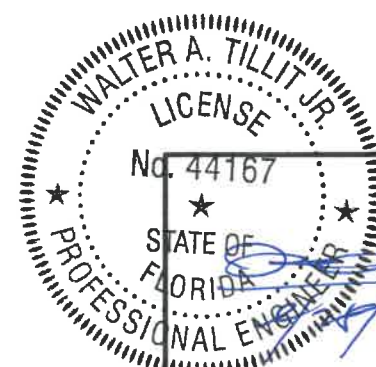


ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *

SECTION L-L OPTIONAL SYSTEM # 2

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.



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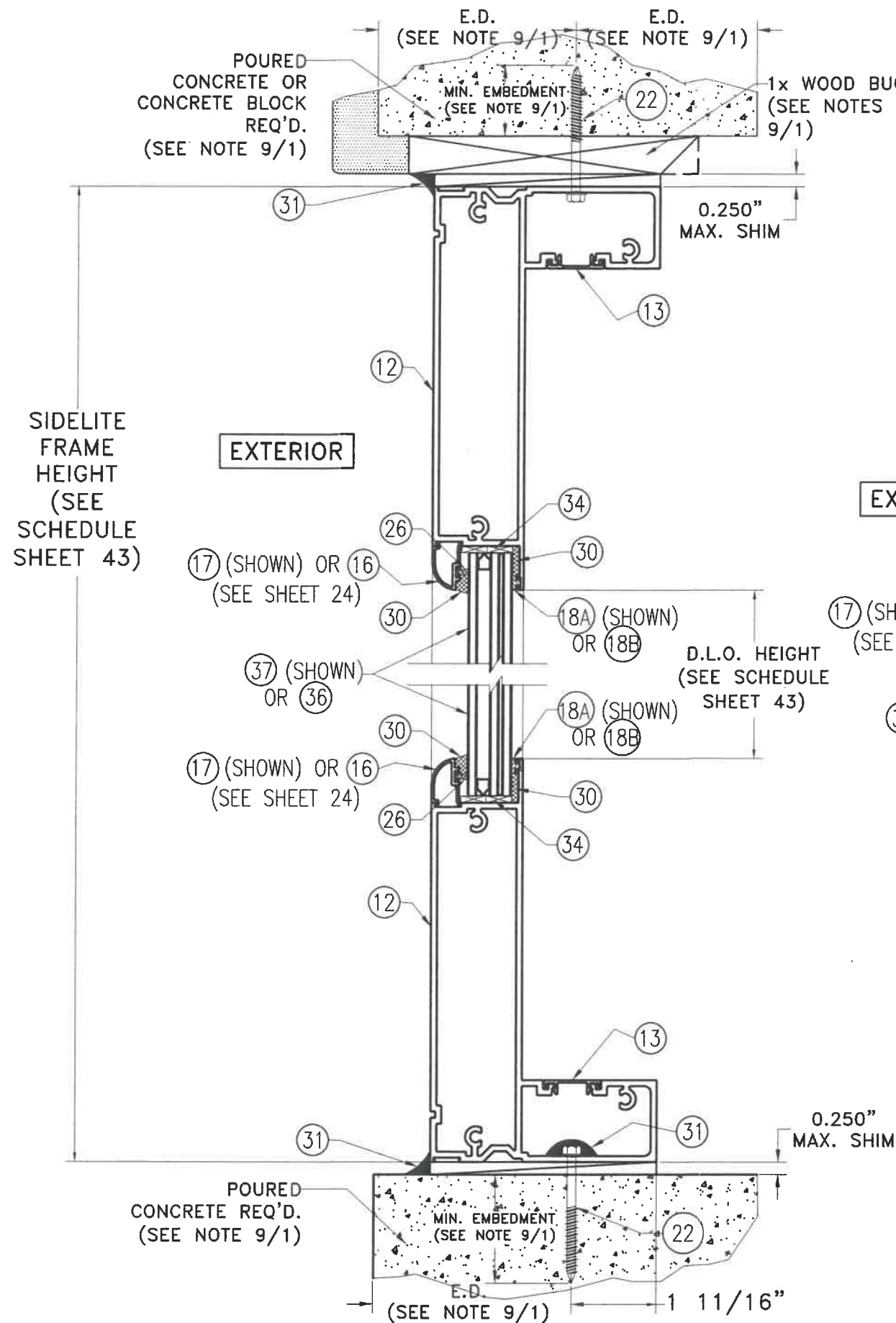
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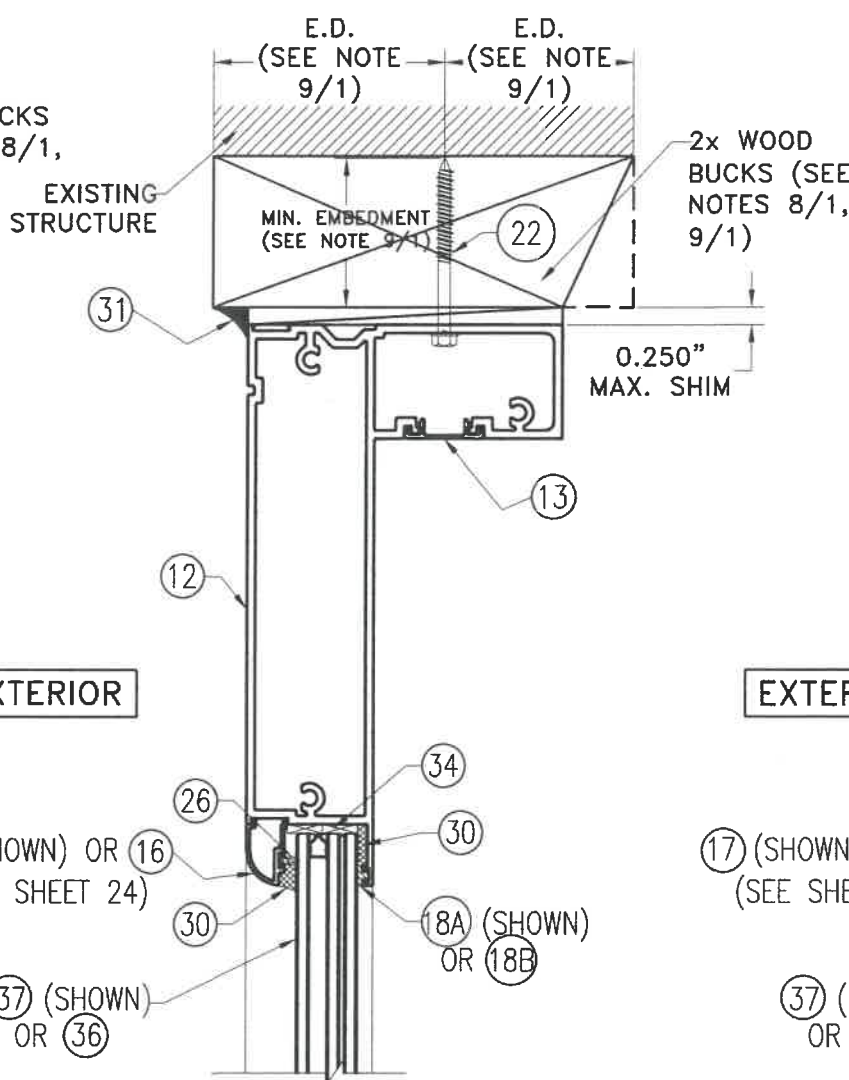
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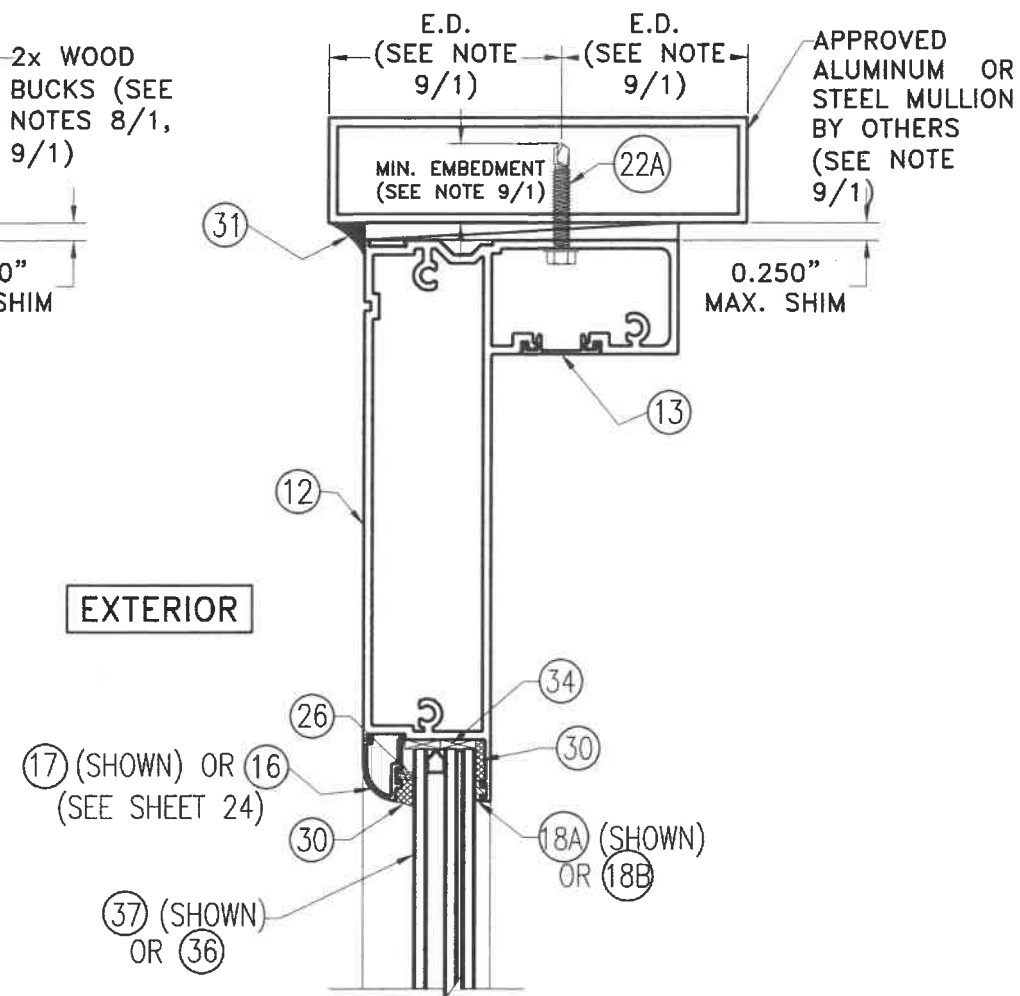


POURED CONCRETE OR CONCRETE BLOCK SUBSTRATE *



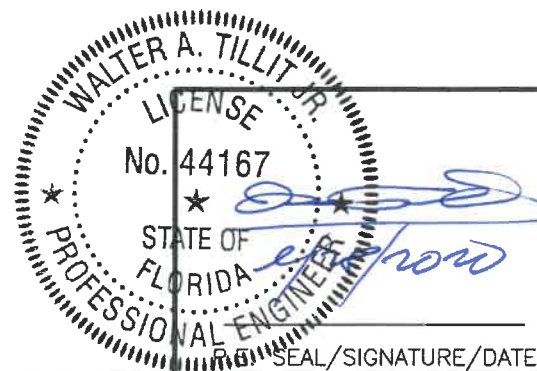
WOOD SUBSTRATE *
SECTION M-M

SCALE: 3/8"=1"



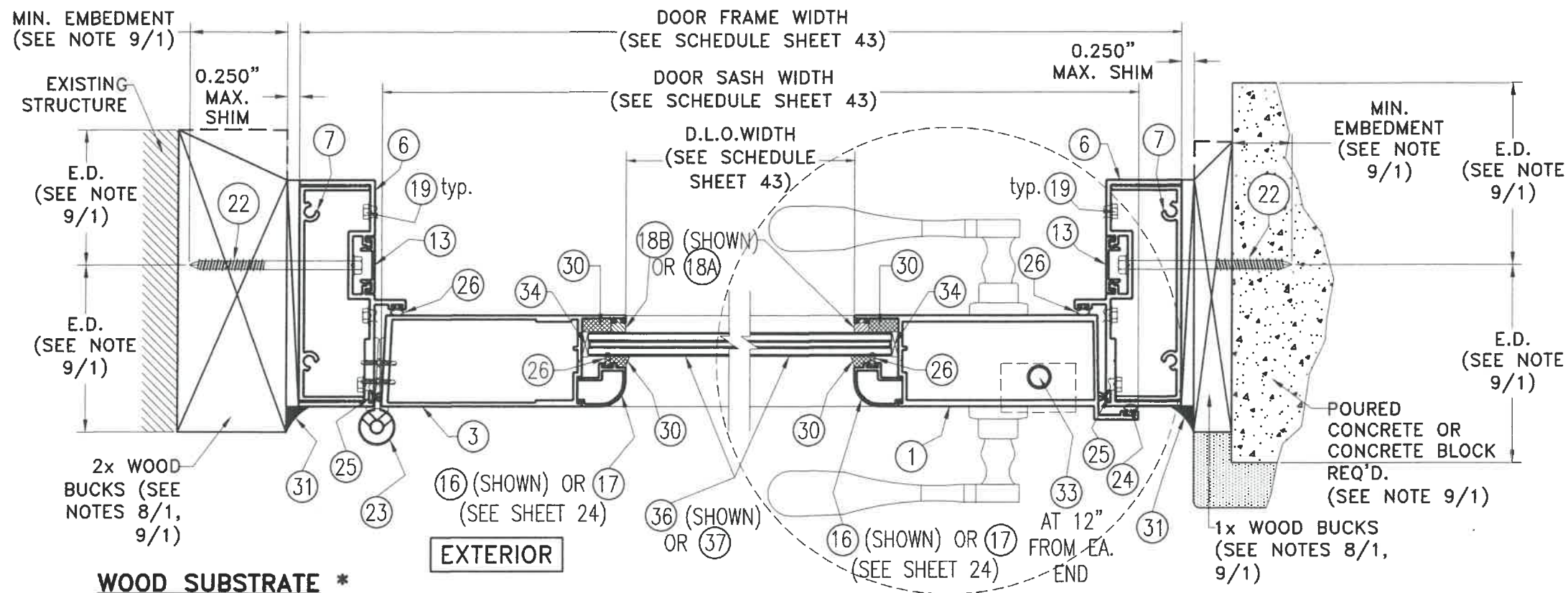
**ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE ***
OPTIONAL SYSTEM # 2

* 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.

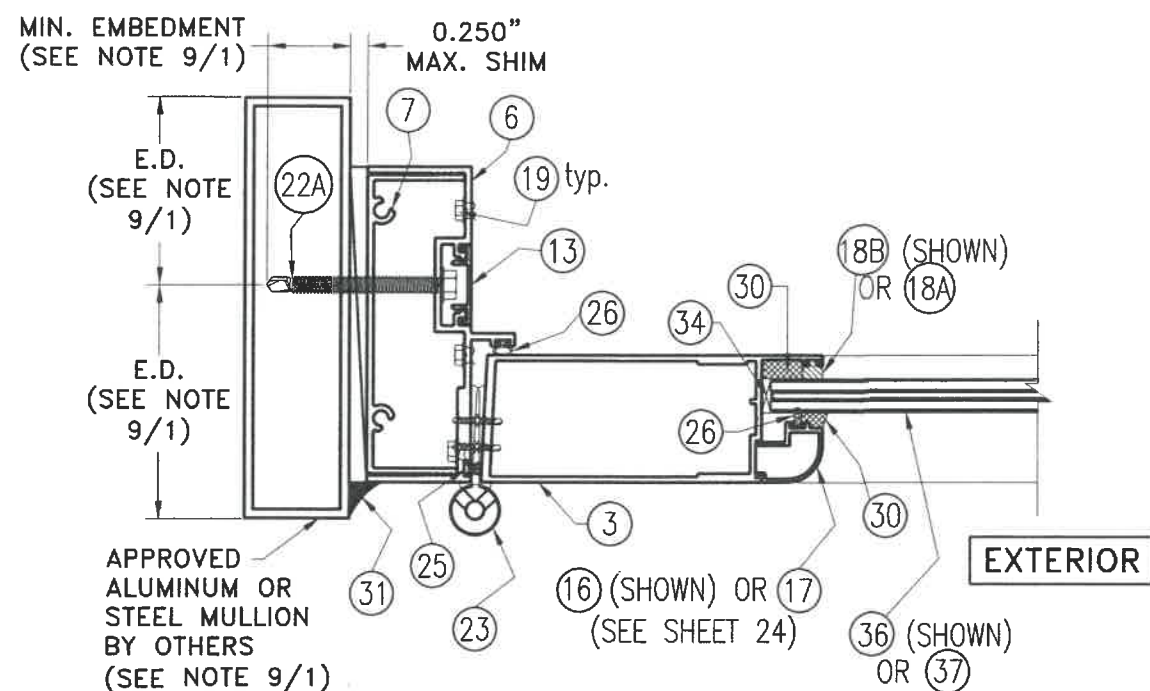


FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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<table><thead><tr><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th></tr></thead><tbody><tr><td>1</td><td>OLD 18-080</td><td>7/28/2020</td><td>3</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td>4</td><td></td><td></td></tr></tbody></table>		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 18-080	7/28/2020	3			2			4			20-179 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																
1	OLD 18-080	7/28/2020	3																		
2			4																		
				SHEET 35 OF 45																	



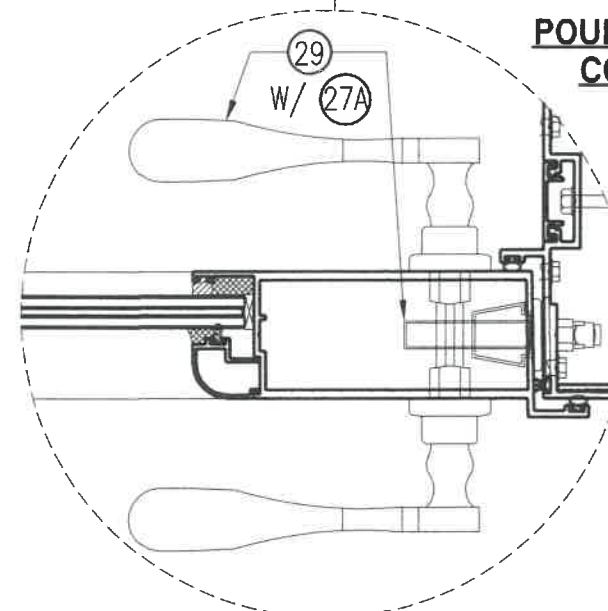
WOOD SUBSTRATE *



**ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE ***

SECTION N-N @ SINGLE DOOR

SCALE: 3/8"=1"

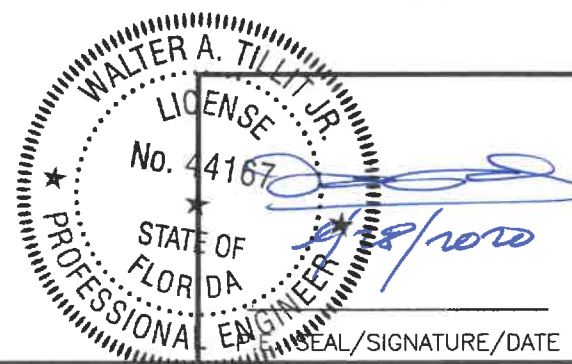


VARIANCE W/ 29

**POURED CONCRETE OR
CONCRETE BLOCK
SUBSTRATE ***

* JAMB 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 JAMBS.

OPTIONAL SYSTEM # 2



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OR W/ SIDELITES**



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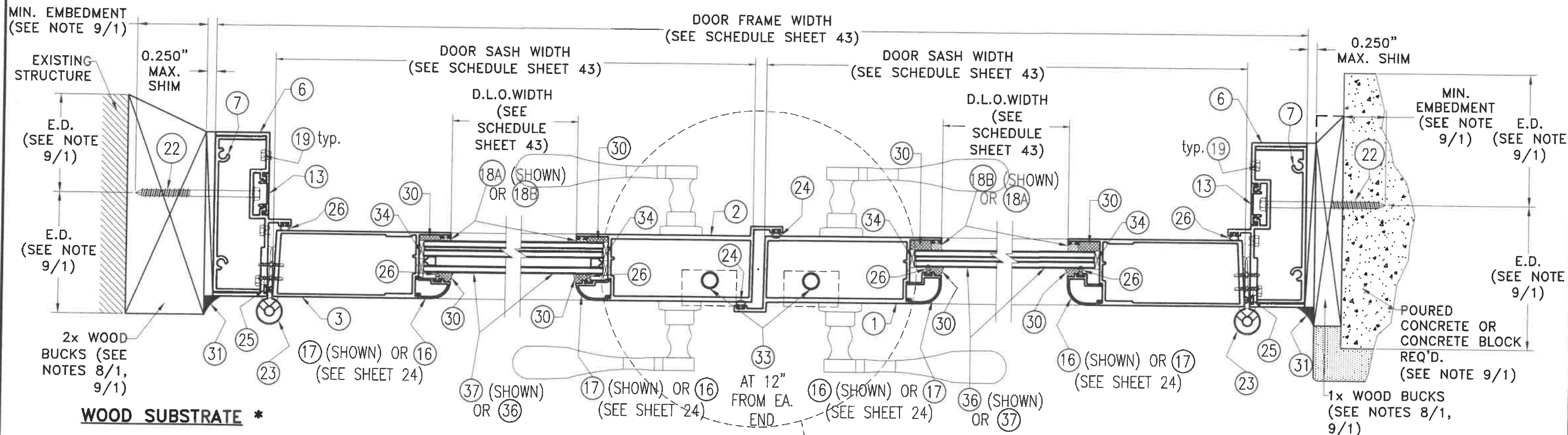
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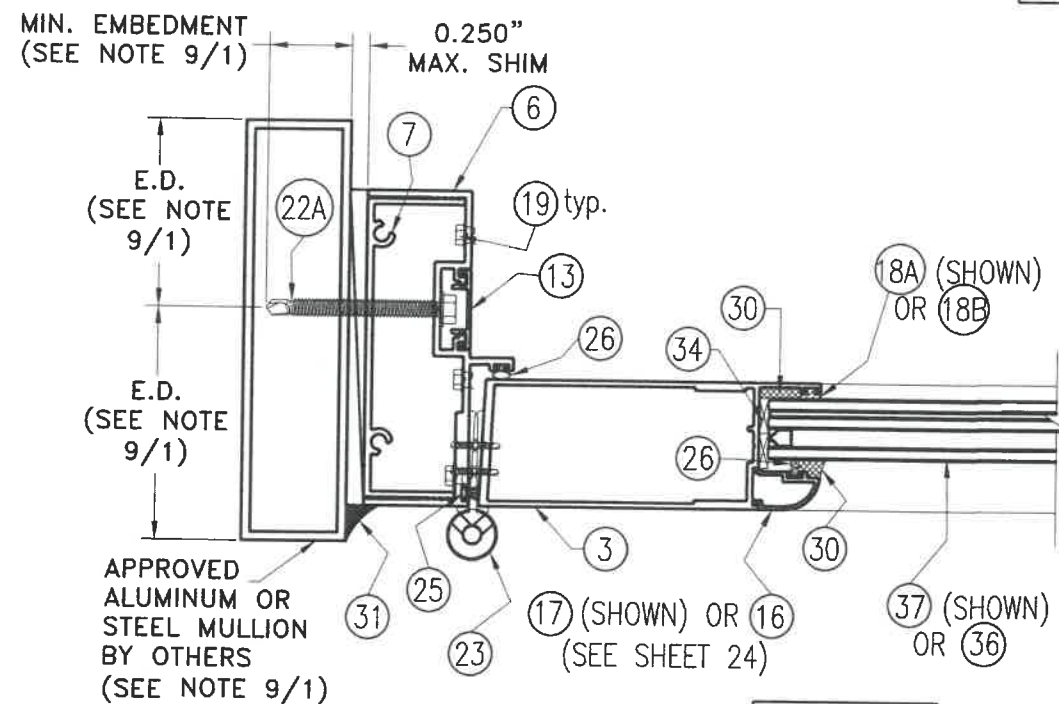
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WOOD SUBSTRATE *

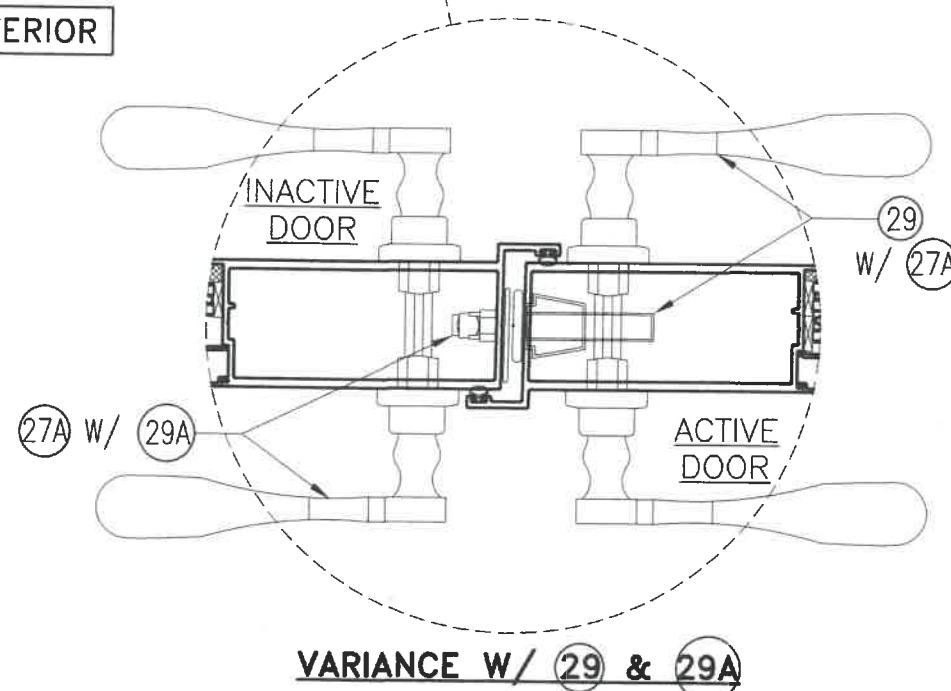
**POURED CONCRETE
OR CONCRETE
BLOCK SUBSTRATE ***



**ALUMINUM MULLION
OR STEEL MEMBER
SUBSTRATE ***

EXTERIOR

EXTERIOR

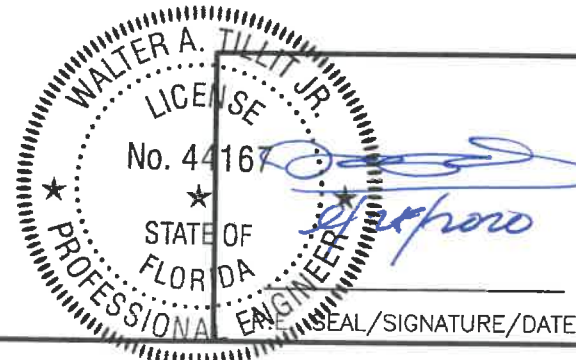


SECTION 0-0 @ DOUBLE DOOR

SCALE: 3/8"=1"

* JAMB 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 JAMBS.

OPTIONAL SYSTEM # 2



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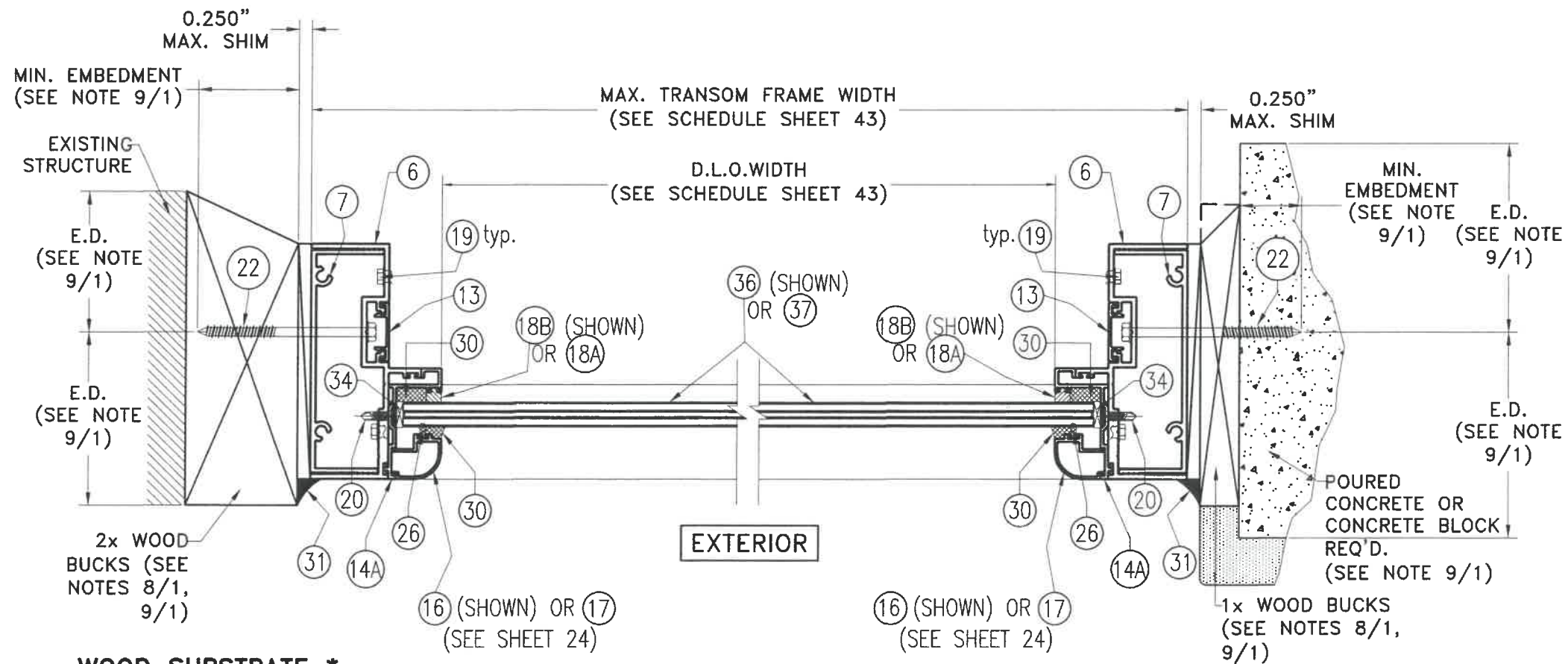
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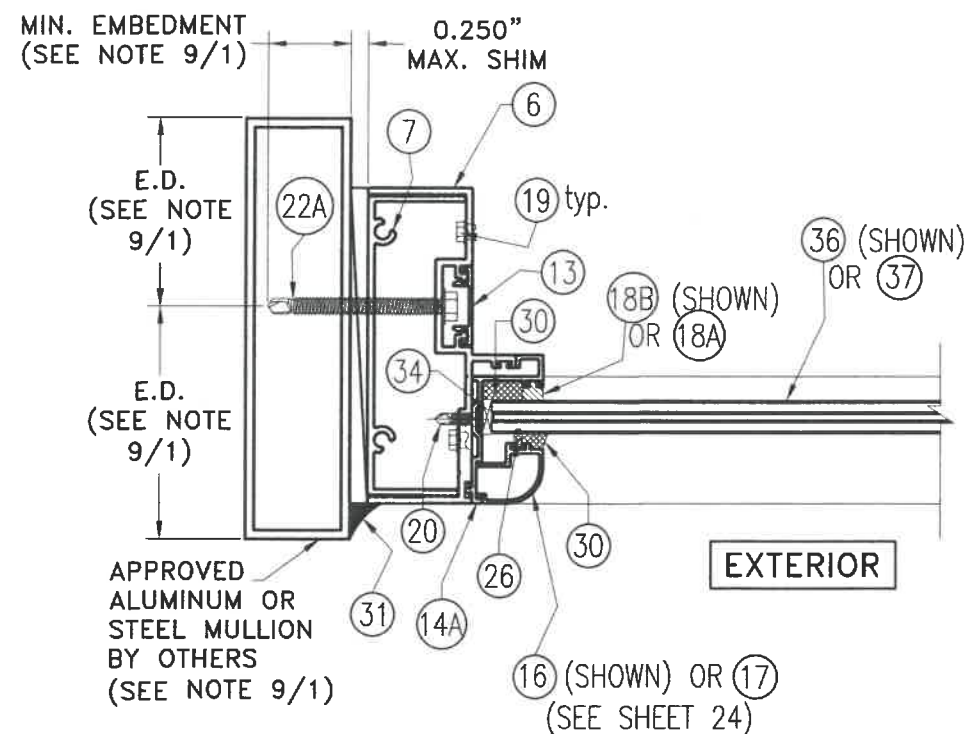
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WOOD SUBSTRATE *

POURED CONCRETE OR CONCRETE BLOCK SUBSTRATE *

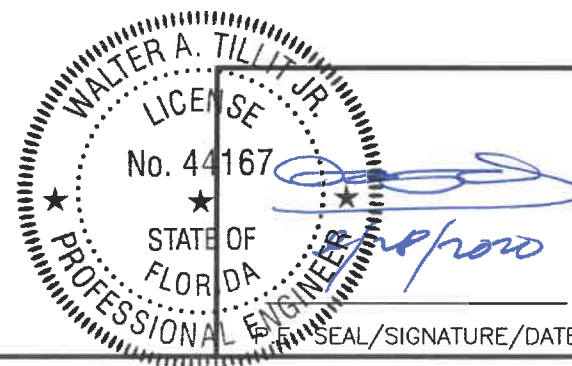


ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *

* JAMB 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 JAMBS.

SECTION P-P @ TRANSOM OPTIONAL SYSTEM # 2

SCALE: 3/8"=1"



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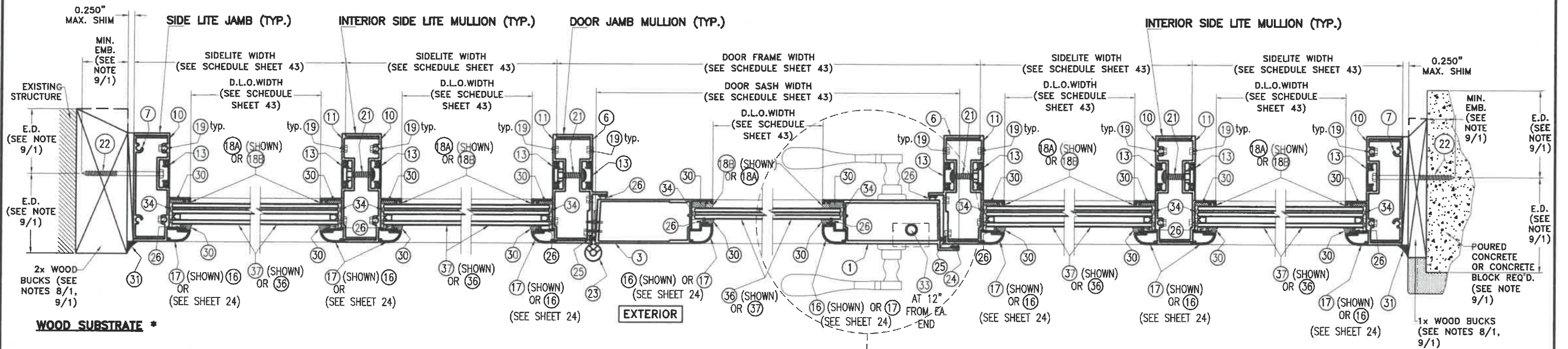
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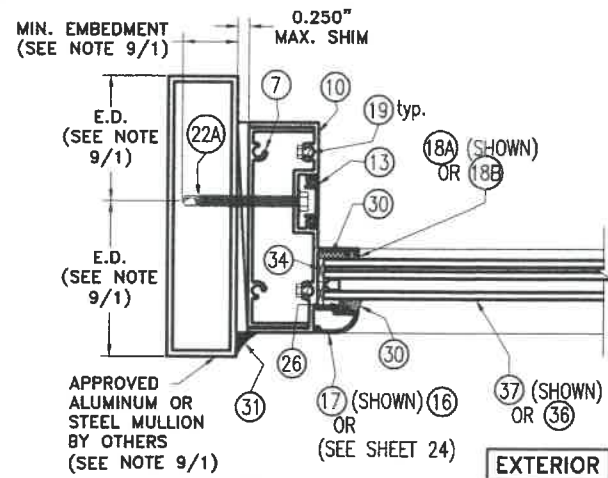
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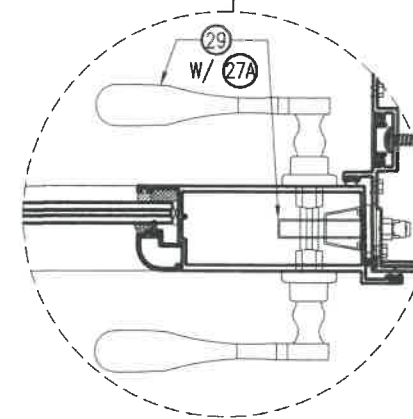
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2			4		



WOOD SUBSTRATE *



**ALUMINUM MULLION
OR STEEL MEMBER
SUBSTRATE ***



VARIANCE W/ 29

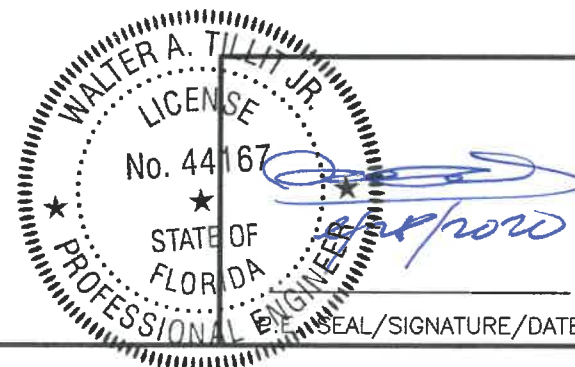
**SECTION Q-Q @ SINGLE DOOR W/ SIDELITES
OPTIONAL SYSTEM # 2**

SCALE: 1/4"=1"

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**POURED CONCRETE OR
CONCRETE BLOCK
SUBSTRATE ***

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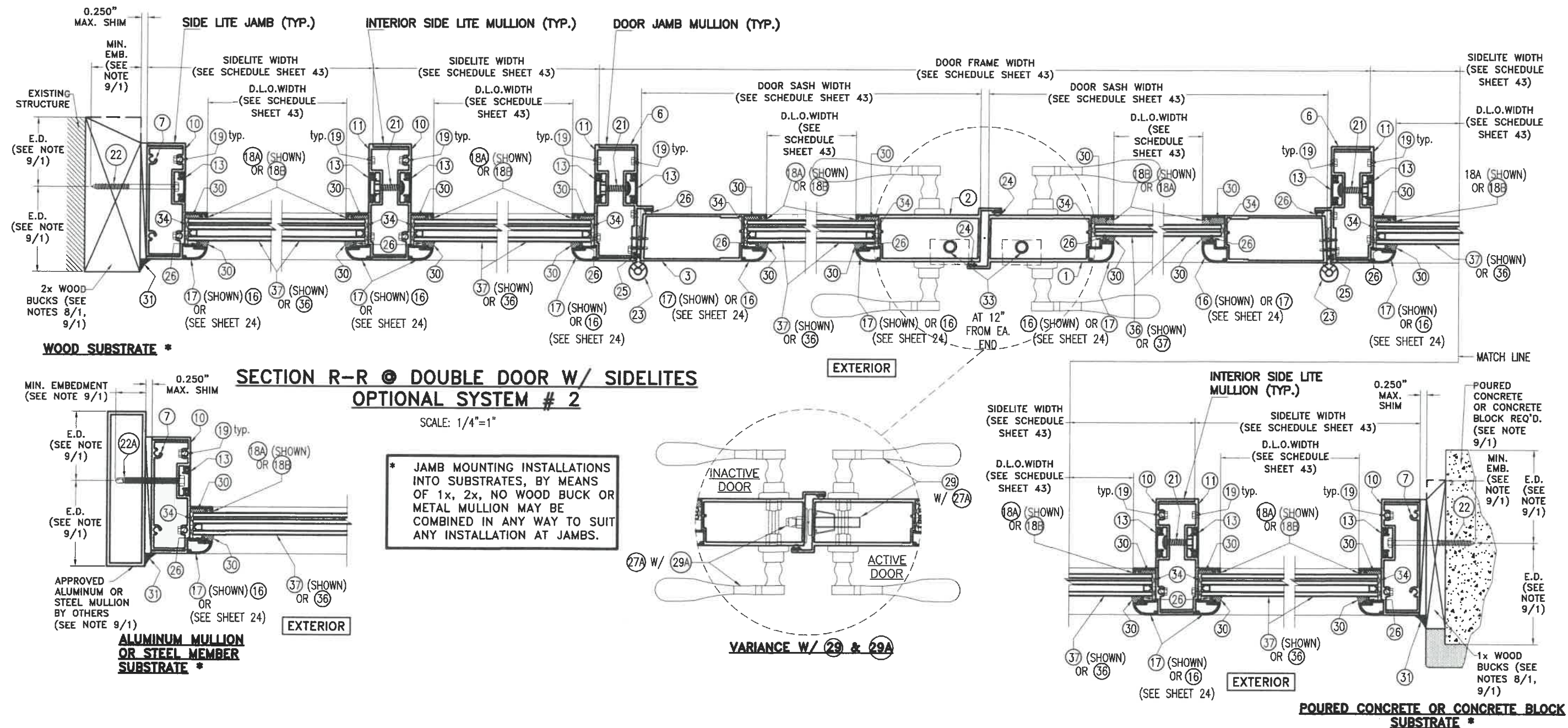
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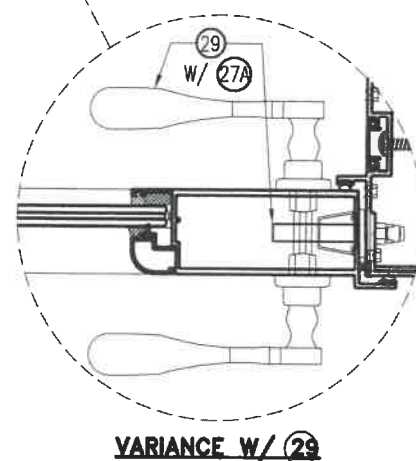
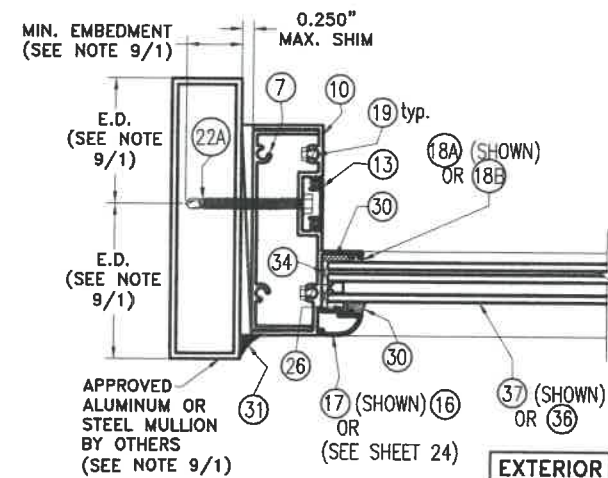
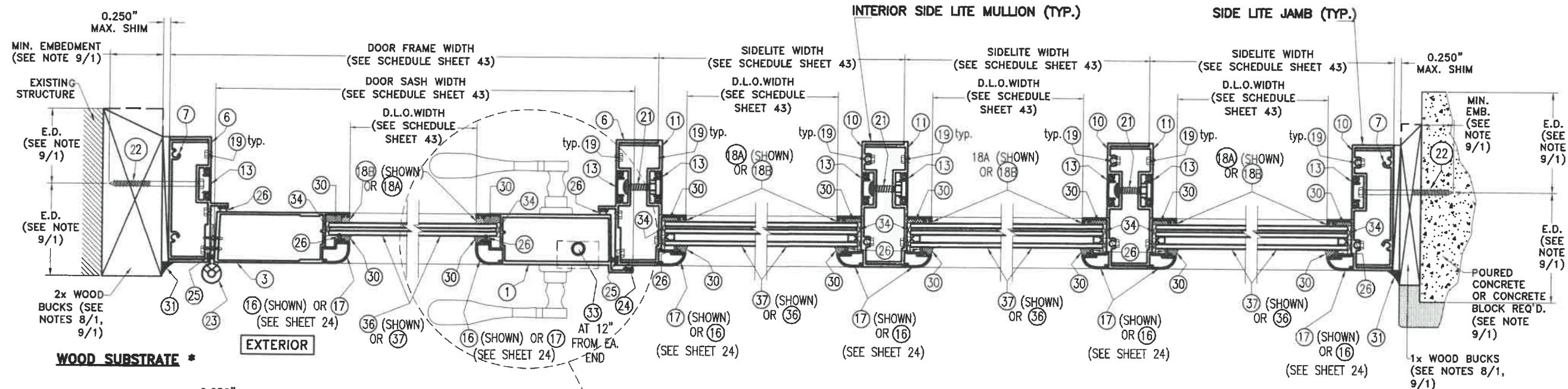
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SECTION S-S @ SINGLE DOOR W/ SIDELITES
OPTIONAL SYSTEM # 2
 SCALE: 1/4"=1'

* JAMB 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 JAMBS.

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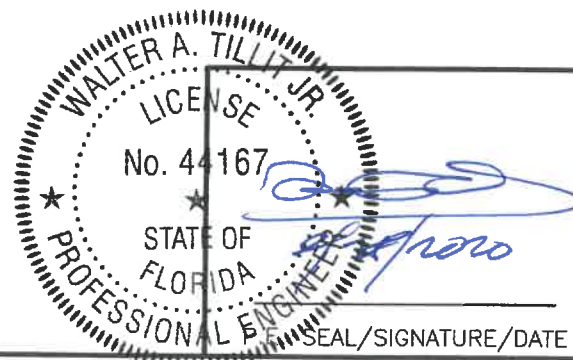
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SINGLE & DOUBLE DOOR SCHEDULE ONLY VALID
FOR DOORS W/O TRANSOM AND W/O SIDELITE : OPTIONAL SYSTEM # 2

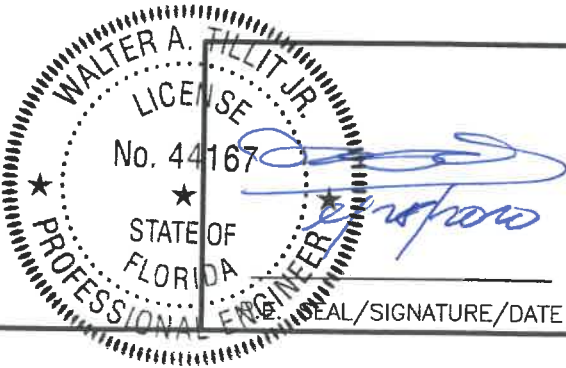
MAX. ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH		MAX. DOOR FRAME HEIGHT	MAX. DOOR SASH WIDTH *	MAX. DOOR SASH HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
	AT SINGLE DOOR	AT DOUBLE DOOR					
+45, -45 psf	3'-5 1/2"	6'-8"	10'-0"	3'-2 1/2"	9'-9 1/2"	2'-4"	8'-8"
+49, -49 psf	3'-5 1/2"	6'-8"	9'-8"	3'-2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

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
AT SINGLE DOOR	3'-5 1/2"	8'-4"	3'-2 1/2"	7'-7 5/8"	2'-4"	7'-0"
AT DOUBLE DOOR	6'-8"	8'-4"	3'-2 1/2"	7'-7 5/8"	2'-4"	7'-0"
AT SIDELITE	4'-0"	8'-4"	-	-	3'-4"	7'-0"
AT TRANSOM	6'-8"	4'-0"	-	-	6'-3"	3'-7"

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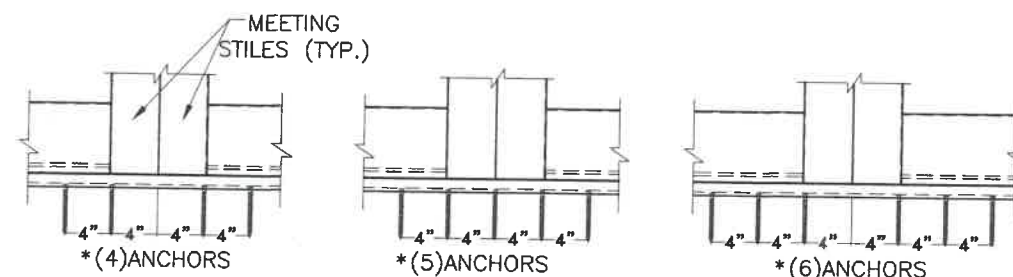
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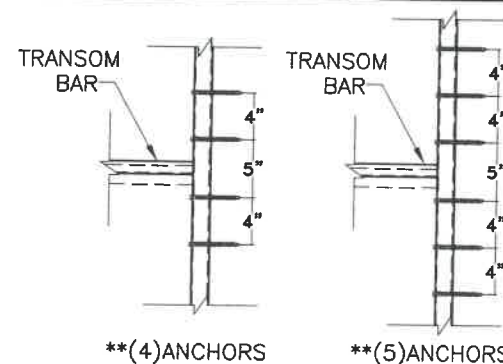
**REQ'D NUMBER OF ANCHORS AT HEAD/SILL CLUSTER : OPTIONAL
OF ANCHORS AT DOUBLE DOOR, AT MEETING STILES * : SYSTEM # 2**

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 : OPTIONAL
AT ENDS OF TRANSOM BAR WITH DOUBLE DOOR ** : SYSTEM # 2**

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

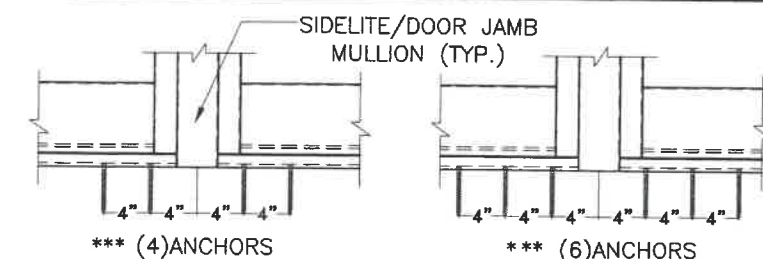


**MAXIMUM ANCHOR SPACING "S" SCHEDULE : OPTIONAL
AT JAMBS OF DOOR, SIDELITE & TRANSOM : SYSTEM # 2**

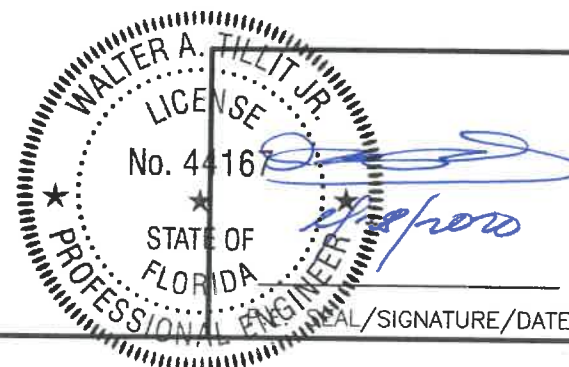
SUBSTRATE	ANCHOR TYPE	A.S.D. DESIGN PRESSURE RATING (psf)	"S"
CONCRETE	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
BLOCK	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
WOOD	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
ALUMINUM TUBE OR STEEL MEMBER	1/4"Ø-14 ITW/BUILDEX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

**REQ'D NUMBER OF ANCHORS AT HEAD & SILL CLUSTER : OPTIONAL
OF ANCHORS AT SIDELITE & DOOR JAMB MULLIONS *** : SYSTEM # 2**

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



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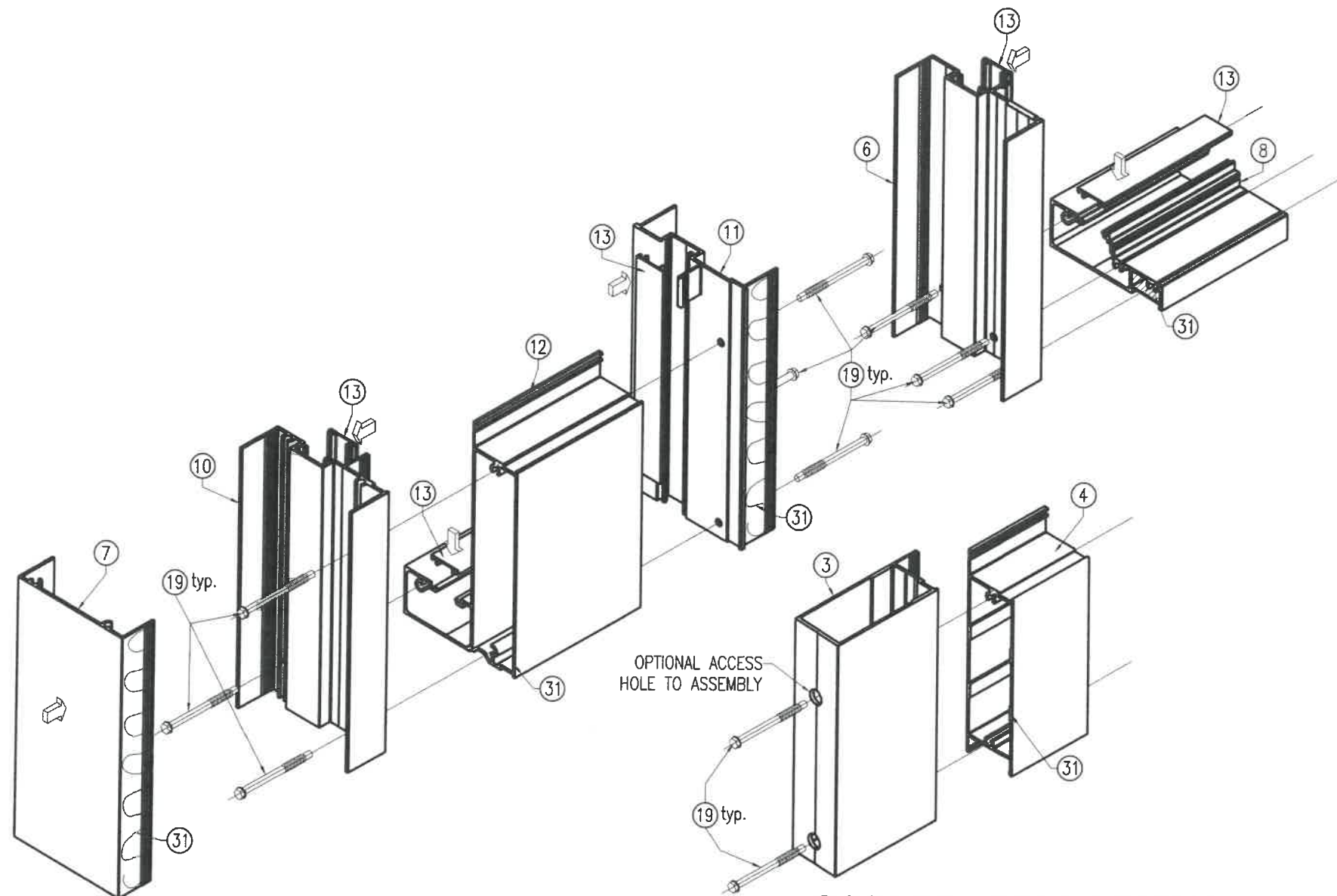


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**SERIES 24000 LMSZ IMPACT RESISTANT
OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES**
GENERAL
IMPACT GLASS & WINDOWS
The Clear Solution
290 WEST 78 ROAD
HIALEAH, FL. 33014
PHONE: (305) 558-8103
FAX: (305) 558-6665
www.generalimpact.com

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 19-080	7/28/2020	3		
2			4		

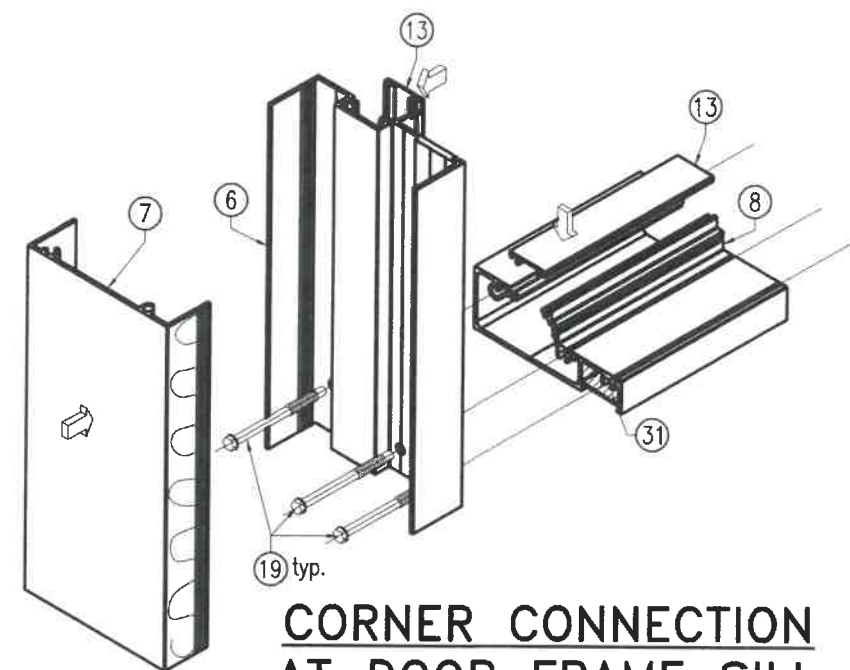
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M.P.
7/28/2020
DATE
20-179
DRAWING No
SHEET 44 OF 45



CORNER CONNECTION
AT SIDELITE & DOOR

OPTIONAL ACCESS
HOLE TO ASSEMBLY

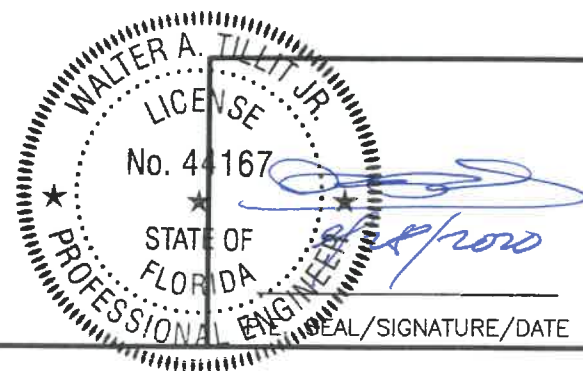
CORNER CONNECTION
AT DOOR PANEL



CORNER CONNECTION
AT DOOR FRAME SILL

CORNER DETAILS ISOMETRIC OPTIONAL SYSTEM # 2

NTS



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

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