

GENERAL NOTES

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE MISSILE LEVEL D, WIND ZONE 4, IMPACT RESISTANT IN ACCORDANCE WITH ASTM E 1996, AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.

2. THIS PRODUCT HAS BEEN TESTED TO ASTM E 330, ASTM E 1886, AND ASTM E 1996, AND MEETS THE REQUIREMENTS OF THE 8TH ED. (2023) FLORIDA BUILDING CODE FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. THIS PRODUCT IS NOT RATED FOR WATER INFILTRATION RESISTANCE. FOR USE ONLY IN LOCATIONS WHERE WATER PERFORMANCE IS NOT REQUIRED, OR IN NONHABITABLE AREAS, OR IN AREAS PROTECTED BY A 1:1 OVERHANG IN ACCORDANCE WITH FBC SECT. 1709.5.1 EXC. 2 (OVERHANG LENGTH = OVERHANG HEIGHT).

3. ALLOWABLE CONFIGURATION AS SHOWN.

4. THE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, AND TESTED STRUCTURAL AND CYCLIC PRESSURES.

5. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.

6. INSTALLATION OF WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR A.H.J. WHEN INSTALLING INTO CONCRETE (OR MASONRY AT JAMBS ONLY) WITH WOOD BUCKS LESS THAN 1-1/2" THICK, ANCHOR EMBEDMENT SHALL BE INTO CONCRETE (OR MASONRY AT JAMBS ONLY). WHEN INSTALLING INTO WOOD BUCKS 1-1/2" OR THICKER OVER CONCRETE (OR MASONRY AT JAMBS ONLY) , ANCHOR EMBEDMENT SHALL BE INTO THE WOOD.

7. ANCHORAGE NOTES: ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS. INSTALL TWO ANCHORS AT EACH LOCATION SHOWN IN THE ELEVATION, ALWAYS IN THE INNERMOST AND OUTERMOST TRACKS OF THE FRAME ASSEMBLY. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO. ON-CENTER DISTANCE BETWEEN ANY TWO INSTALLATION FASTENERS OF 3" MINIMUM SHALL BE MAINTAINED IN CMU, AND 1.5" MINIMUM FOR ALL OTHER SUBSTRATES.

8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.

9. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.

10. PRODUCT JOINERY: TWO #10 SCREWS INTO HEAD AND INTO JAMB AT EACH HEAD/JAMB CORNER USING SHEAR BLOCKS PART #FV67.

11. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND IS NOT ADDRESSED BY THIS DOCUMENT.

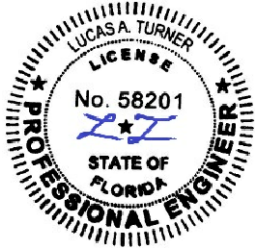
D300 IMPACT OUTSWING ENTRANCE DOOR

TABLE 1: INSTALLATION ANCHOR REQUIREMENTS TABLE			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
SOLID CONCRETE (3.05 KSI MIN.)	1/4" DEWALT ULTRACON+	1-3/4"	2-1/2"
CMU (ASTM C-90) (JAMBS ONLY)	1/4" DEWALT ULTRACON+	1-3/4"	2-1/2"
2X MIN. SOUTHERN PINE WOOD (G=0.55)	#14 GRADE 5 WOOD SCREW	1-1/2"	1"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	#14-14 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL, PLUS 3 THREADS BEYOND	1/2"

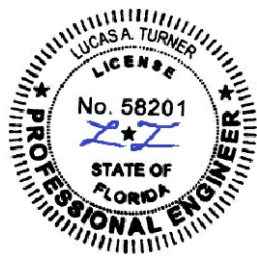
TABLE 2: AS-TESTED D300 DOOR PERFORMANCE RATING							
CONFIGRUATION	ELEVATION	SECTION VIEWS	HARDWARE	MAXIMUM SIZE	GLAZING DETAIL (SEE SHEET 2)	DESIGN PRESSURE (PSF)	IMPACT RATING
XX DOUBLE DOOR WITH SIDELIGHTS AND/OR TRANSOM IN 526 STOREFRONT	SHEET 2	SHEETS 3 TO 5	3 POINT LOCK AND FLUSH BOLTS	166" x 130-3/4"	A (SIDELIGHTS AND TRANSOM)	+/-70	WIND ZONE 4, MISSILE LEVEL D
				166" x 130-3/4"	B (XX DOUBLE (PAIR) DOORS)	+/-70	
XX DOUBLE (PAIR) DOORS WITH CURTAINWALL ADAPTER	SHEET 6	SHEET 7	CVR PANIC DEVICE	101-3/4" x 98-7/8"	B	+/-90	
X SINGLE DOOR WITH CURTAINWALL ADAPTER	SHEET 8	SHEET 9	3 POINT LOCK	53-3/4" x 98-7/8"	B	+/-90	

TABLE 3: D300 DOOR VARIATIONS PERFORMANCE RATINGS			
VARIABLE OPTIONS	HARDWARE	DESIGN PRESSURE (PSF)	IMPACT RATING
LOCKING HARDWARE	INTERNATIONAL FLUSH BOLTS	+/-70	WIND ZONE 4 MISSILE LEVEL D
	ADAMS RITE MS1853 3-POINT LOCK	+/-90	
	JACKSON 2086 CVR PANIC DEVICE	+/-90	
HINGING HARDWARE	HAGER BUTT HINGE	+/-70	WIND ZONE 4 MISSILE LEVEL D
	INTERNATIONAL OR RIXON OFFSET PIVOT	+/-90	
	ABH AL160HD OR SELECT SL12HD CONTINUOUS HINGE	+/-90	
INSTALLATION INTO APPROVED SYSTEMS	SINGLE OR PAIR IN 526 STOREFRONT	+/-70	WIND ZONE 4 MISSILE LEVEL D
	SINGLE OR PAIR IN 5600 CURTAINWALL	+/-90	

Lucas Turner
2023.10.19
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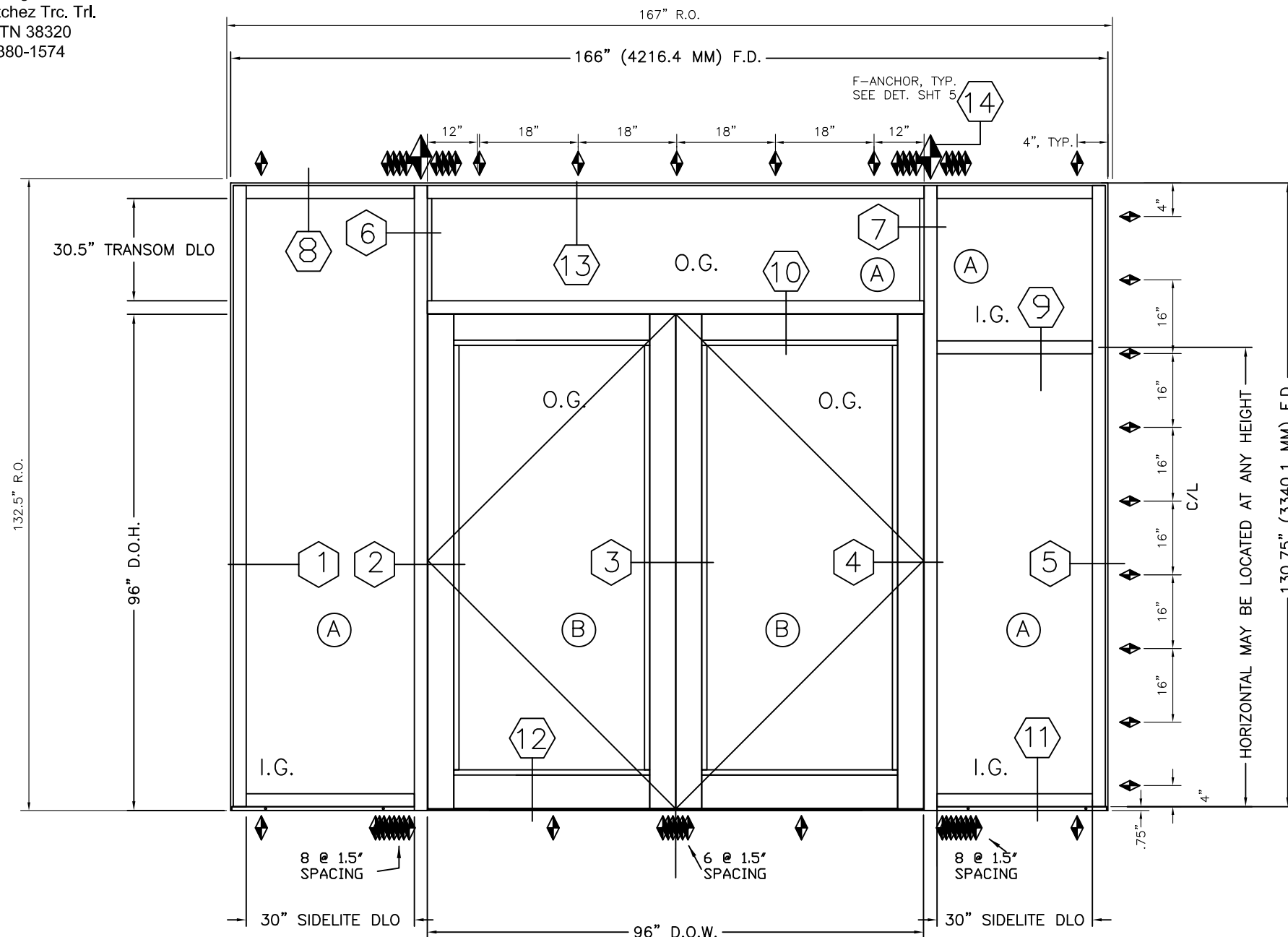
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GLASS DESCRIPTION

- (A) 1 5/16" NOMINAL GLASS THICKNESS
1/4" TCLR
AIR SPACE
9/16" (1/4" HS - .090 SGP - 1/4" HS)
- (B) 9/16" NOMINAL GLASS THICKNESS
9/16" (1/4" HS - .090 SGP - 1/4" HS)

ITEM	# REQD	PART #	DESCRIPTION
66	4	STC6	#6-18 X 3/8 PL-TH-SMS 18-8 A
67	2	12D8	CHANNEL
68	8	HNA5	ANTI-WALK BLOCK
69	16	HNA7	ANTI-WALK BLOCK
70	4	MFH6	#10-24 X 3/8 PL-FH-MS 18-8
71	16	M109	#12-24 X 3/8PL-FH-MS 18-8
72	10	STB5	#12-11 X 1 5/8" PL-PH-SMS
73	AS REQD	----	INSTALL ANCHOR, TABLE 1, SHT 1
74	4	STB9	#12-11 X 1/2" PL-RH-SMS 18-8 A
75	2	FWB3	SHEAR BLOCK 16J1 @ 1.25"
76	2	FWB2	SHEAR BLOCK 16J0 @ 1.25"
77	2	FWL3	ANCHOR

ITEM	# REQD	PART #	DESCRIPTION
1	3	16G2	HEAD
2	4	16G3	FIXED GLASS STOP
3	4	16G4	FIXED GLASS STOP COVER
4	2	4G78	SILL
5	2	16G1	JAMB
6	2	4G79	SUB SILL
7	2	16H3	DOOR JAMB
8	2	16H6	POCKET FILLER
9	2	16H8	APPLIED GLASS STOP
10	2	4488	REMOVABLE GLASS STOP
11	1	16H5	DOOR HEADER
12	1	16H7	HEADER GLASS STOP
13	1	8924	THRESHOLD
14	2	9002	HINGE STILE
15	1	9009	ADJUSTABLE ASTRAGAL STILE
16	1	9010	FLUSH BOLT STILE
17	1	4472	ADJUSTABLE ASTRAGAL
18	1	9030	TOP RAIL
19	1	9031	BOTTOM RAIL
20	8	9827	IMPACT GLAZING STOP
21	8	9826	IMPACT GLAZING ADAPTOR
22	12	K103	WELD CLIP 9070 @ 1.469"
23	4	K104	TOP RAIL CORNER PLATE 9072 @ 1.438"
24	4	K105	BOTTOM RAIL CORNER PLATE 9071 @ 1.438"
25	1	16H2	HORIZONTAL
26	2	4437	DOOR STOP
27	2	9155	DOOR STOP COVER
28	2	FV67	SHEAR BLOCK 9167 @ 4.656"
29	16	F528	HINGE BACKER 9073 @ 9"
30	5	LC10	PVC FRAME FILLER
31	8	H900	BUTT HINGE
32	64	M100	#12-24 X 3/4 PL-FH-MS 18-8 UC
33	4	STD8	#10-12 X 3/4 PL-FH-SMS 18-8 A
34	4	SM00	1/4"-10 X 3/4SL-HW-SMS ZC A
35	41	STC8	#12-14 X 1 1/8 PL-PH-SMS 18-8 25
36	9	SDR1	#10-16 X 3/4PL-PH-SMS SG TEK/2
37	56	SPP7	#8-18 X 9/16 PL-PH-SMS ZC TEK/2
38	AS REQD	STK4	#8-15 X 3/8PL-PH-SMS 18-8 A
39	9	S118	#8-32 X 5/8 PL-PH-SMS F
40	9	F420	ASTRAGAL SPRING
41	1	MS1853	3 POINT LOCK
42	1	FB-1200	FLUSH BOLTS
43	AS REQD	W138	BULB VINYL
44	AS REQD	W153	PILE WEATHER STRIP
45	AS REQD	W146	PRE-SET GASKET
46	AS REQD	W167	GLAZING GASKET
47	AS REQD	WM77	TAPE
48	AS REQD	WM80	TAPE
49	AS REQD	SG15	SILICONE SEALANT
50	AS REQD	----	SILICONE SEALANT
51	16	HN80	GLAZING BLOCK
52	AS REQD	----	POLYURETHANE
53	AS REQD	WAA3	THERMAL STRUT
54	AS REQD	WAB9	THERMAL STRUT
55	6	HEP0	SETTING BLOCK
56	2	HN13	SETTING BLOCK
57	4	FWE5	WEEP BAFFLE
58	4	HC03	ISOLATOR
59	2	FWB0	WATER DEFLECTOR
60	2	CUSTOM	ANCHOR 19Y3/EX82 @ 4.738"
61	2	12D8	CHANNEL
62	8	MFMO	#10-24 X 5/16PL-FH-MS 18-8 UC
63	2	SR526DJ	STEEL REINFORCING
64	12	IHP5	1/4"-20 X 1 HX- -MS 18-8
65	4	FWB1	END DAM

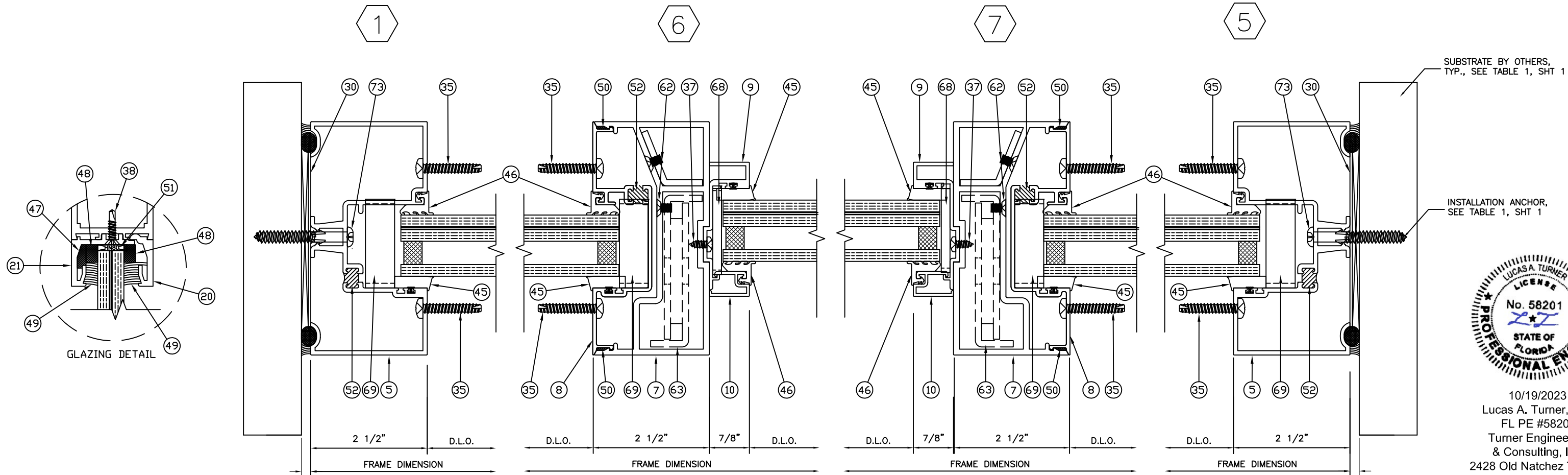


ELEVATION - 70 PSF DESIGN PRESURE

SEE SHEETS 3 TO 5 FOR DETAILS

♦ DENOTES ANCHOR LOCATIONS

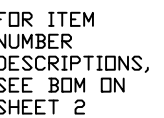
DRAWN BY TKEE	SCALE	REV.	 EFCO CORPORATION 1000 County Road - Monett, Missouri 65708	D300 PAIR W/FLUSH BOLTS & 3 PT LOCK IN 526 FRAMING	DRAWING # FPA-D300	SHEET 2 of 9
DATE 7-18-13						



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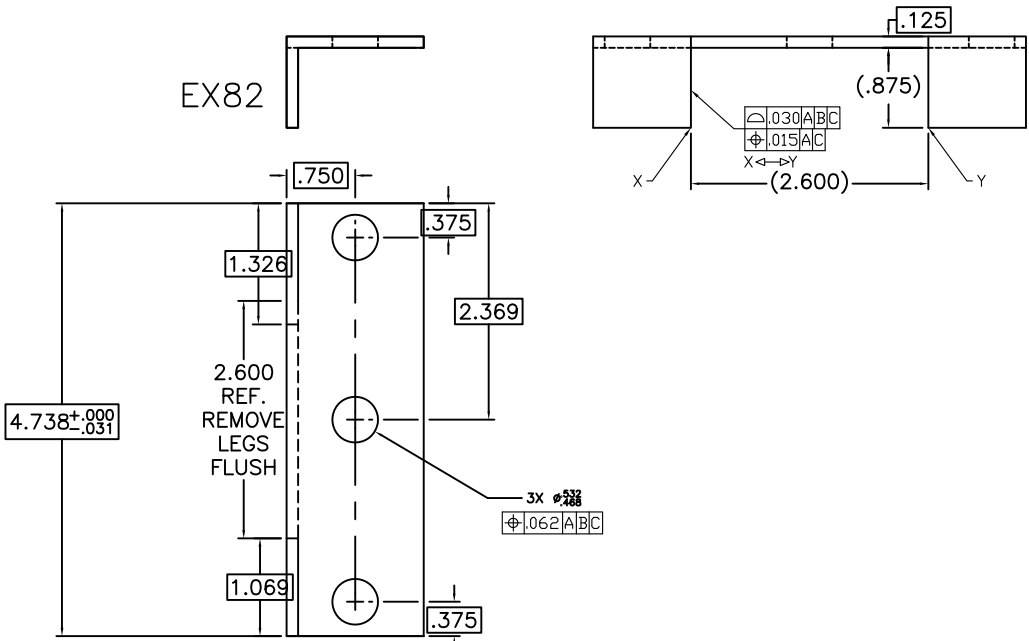


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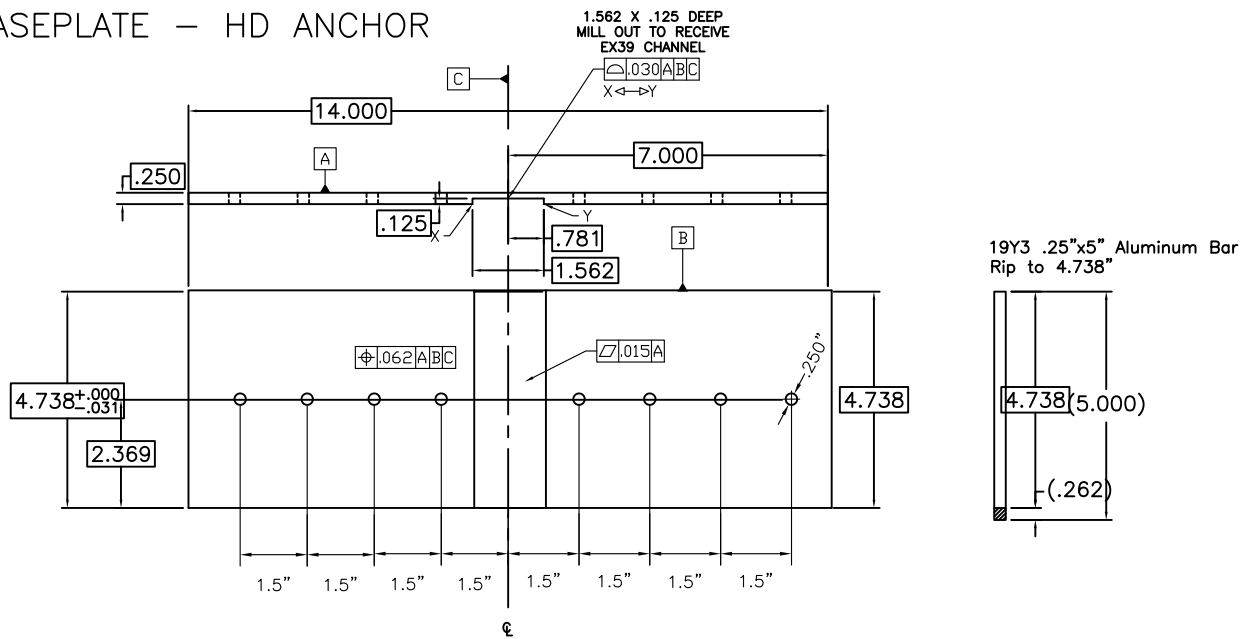


DOOR HEAD CLUSTER F-ANCHOR

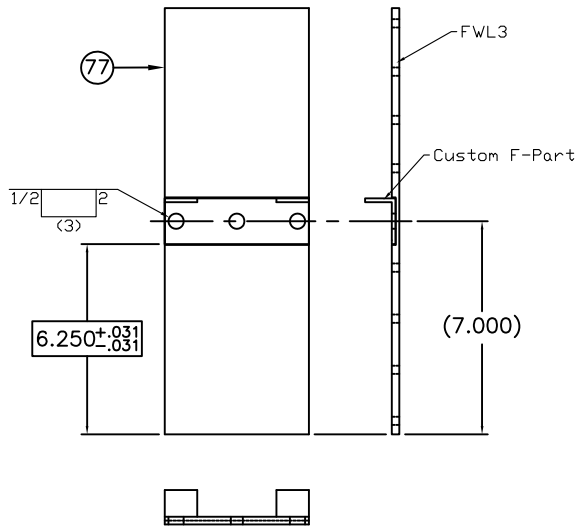
F-PART



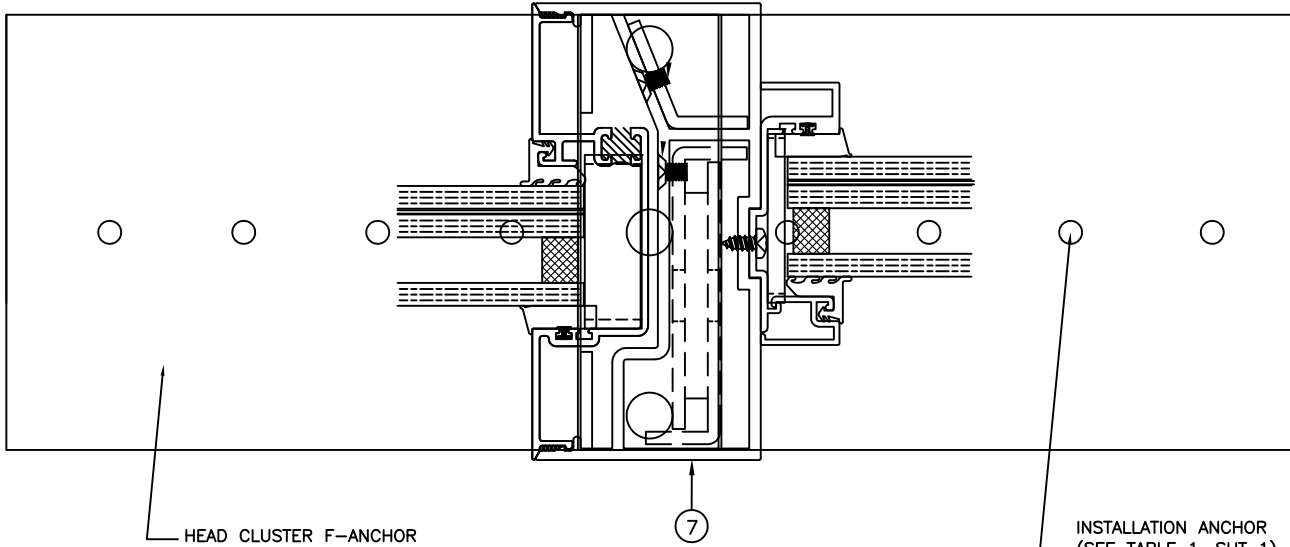
BASEPLATE - HD ANCHOR



ASSEMBLY - F-PART AND BASEPLATE - HD ANCHOR



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DATE 7-18-13

SCALE

REV.



EFCO CORPORATION

1000 County Road - Monett, Missouri 65708

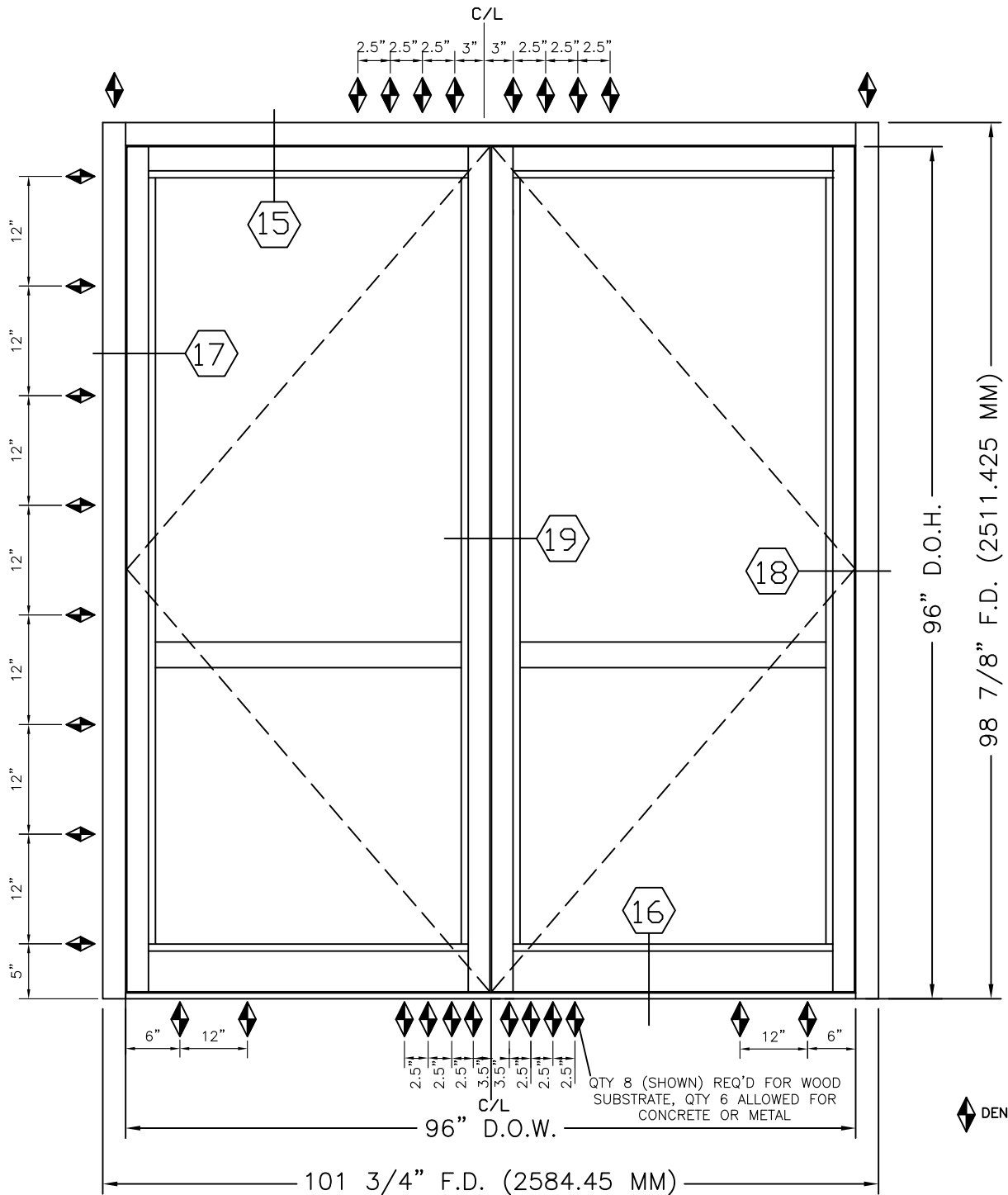
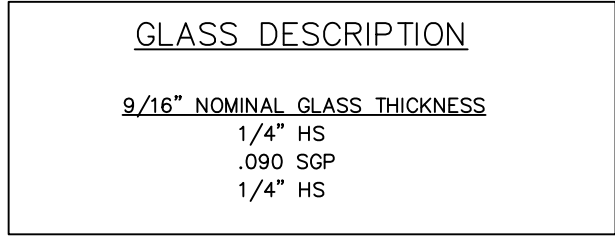
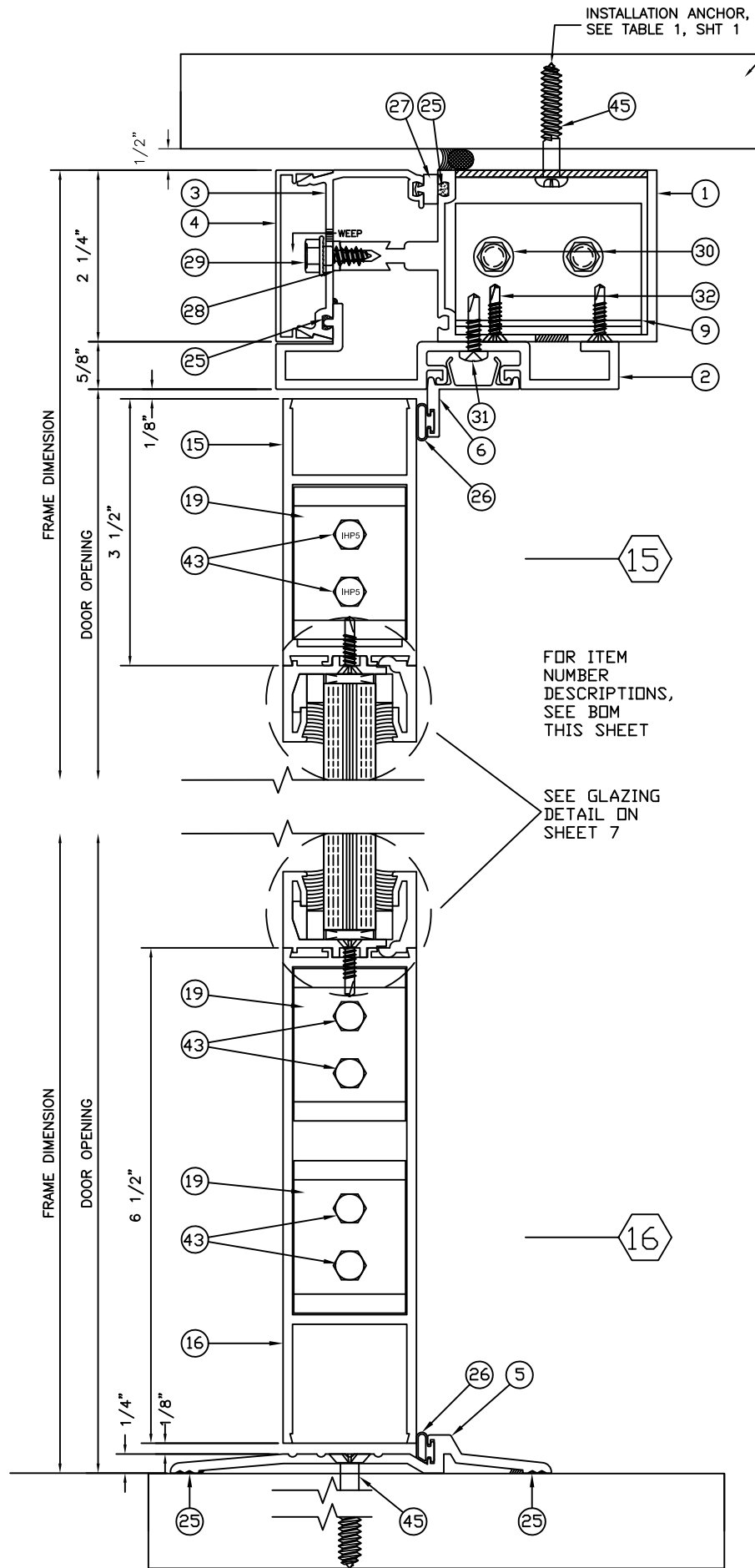
D300 PAIR W/FLUSH BOLTS &
3 PT LOCK IN 526 FRAMING

DRAWING #

FPA-D300

SHEET

5 of 9

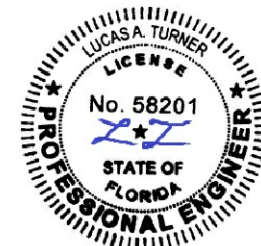


ITEM	# REQD	PART #	DESCRIPTION
1	3	6093	FRAME HEAD/JAMB
2	3	12S5	FRAME ADAPTOR
3	3	5977	PRESSURE PLATE
4	3	5882	COVER
5	1	8924	THRESHOLD
6	1	12S6	SNAP IN DOORSTOP
7	2	5445	SNAP IN DOORSTOP
8	2	KW39	HEAD F-ANCHOR 19Y8 @ 2.594"
9	2	KY46	SHEAR BLOCK 6333 @ 2.438"
10	2	KY46	SILL ANCHOR 6333 @ 2.438"
11	2	9002	HINGE STILE
12	1	9009	ADJUSTABLE ASTRAGAL STILE
13	1	9010	FLUSH BOLT STILE
14	1	4472	ADJUSTABLE ASTRAGAL
15	2	9030	TOP RAIL
16	2	9031	BOTTOM RAIL
17	8	9827	IMPACT GLAZING STOP
18	8	9826	IMPACT GLAZING ADAPTOR
19	12	K103	WELD CLIP 9070 @ 1.469"
20	4	K104	TOP RAIL CORNER PLATE 9072 @ 1.438"
21	4	K105	BOTTOM RAIL CORNER PLATE 9071 @ 1.438"
22	AS REQD	WM77	TAPE
23	AS REQD	WM80	TAPE
24	AS REQD	SG15	SILICONE SEALANT
25	AS REQD		SILICONE SEALANT
26	AS REQD	W138	BULB VINYL
27	AS REQD	WEQ3	PRE SET GASKET
28	AS REQD	WV80	THERMAL ISOLATOR
29	AS REQD	STC0	#13-16 X 5/8 HW-SMS 18-8 GM
30	4	STV2	#14-10 X 1/2HW-SMS 18-8 A
31	AS REQD	STK5	#10-16 X 3/4 PL-PH-SMS
32	AS REQD	STK4	#8-18 X 3/4 PL-FH-SMS
33	9	S118	#8-32 X 5/8 PL-PH-SMS F
34	9	F420	ASTRAGAL SPRING
35	1	HA92	TOP PIVOT
36	1	H657	RH INTERMEDIATE PIVOT
37	1	H895	RH BOTTOM PIVOT
38	1	H410	TOP PIVOT
39	1	H241	LH INTERMEDIATE PIVOT
40	1	H413	LH BOTTOM PIVOT
41	AS REQD	HINGE SCREW	SUPPLIED WITH HINGE
42		----	2086 CVR PANIC
43	12	IHP5	1/4"-20 X 1 HX- -MS 18-8
44	1	8449	HINGE STILE
45	38	----	INSTALLATION ANCHOR, SEE TABLE 1, SHT 1
46	1	HQ45	CONTINOUS GEAR HINGE
47	16	HN80	GLAZING BLOCK
48		W153	PILE WEATHER STRIP

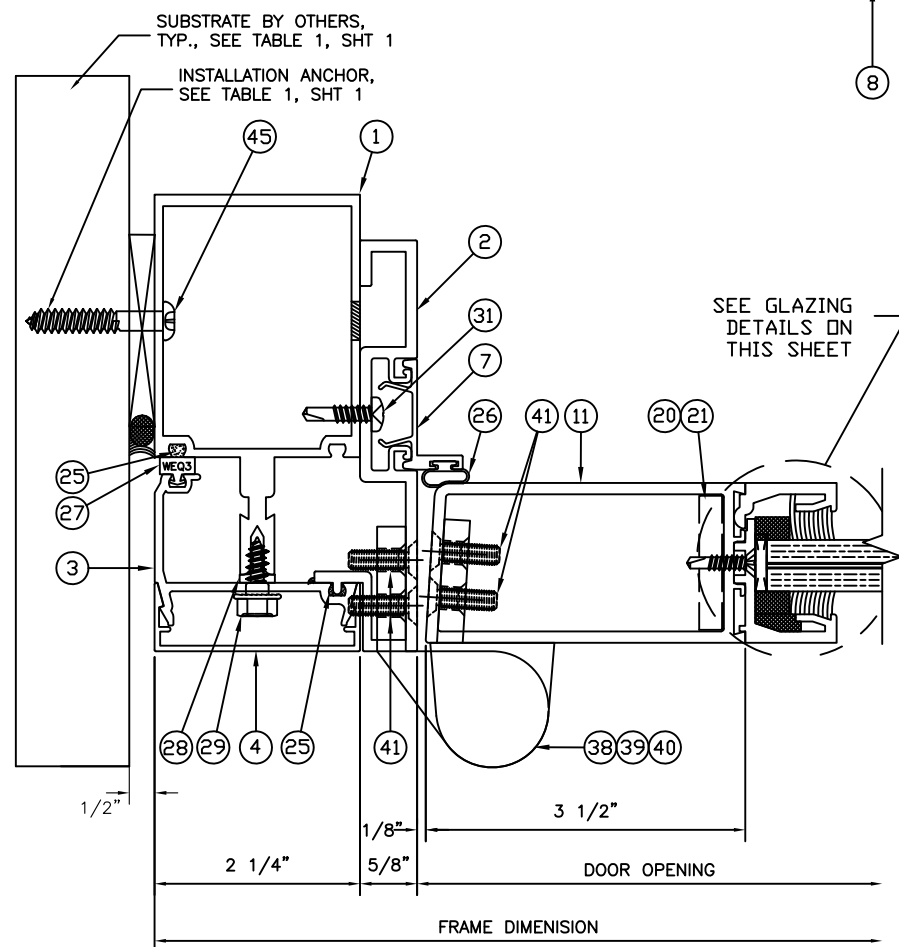
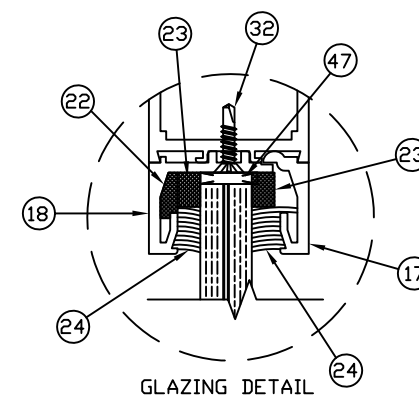
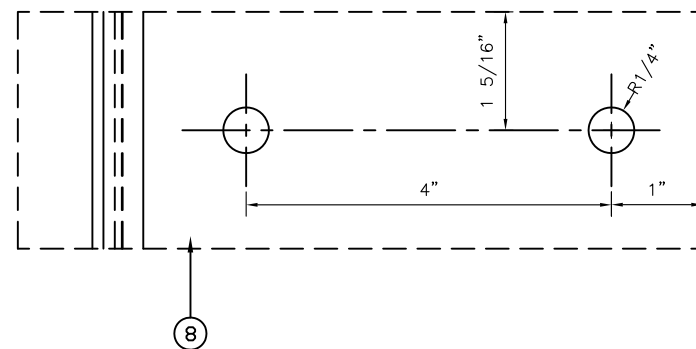
◆ DENOTES ANCHOR LOCATIONS



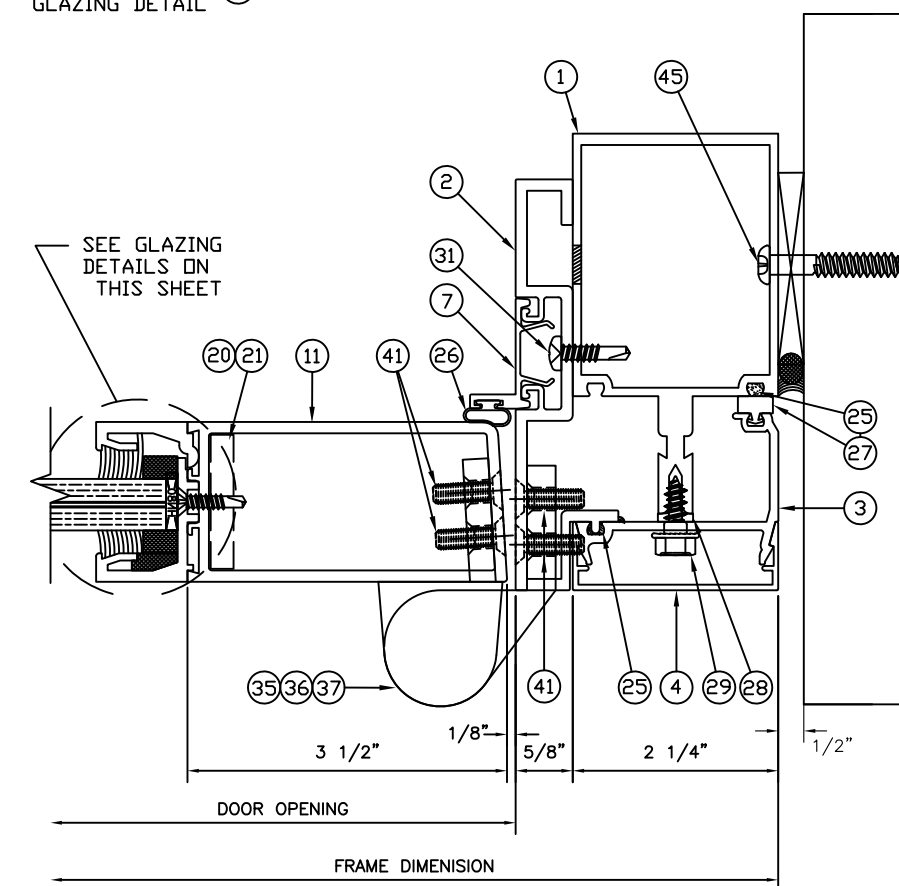
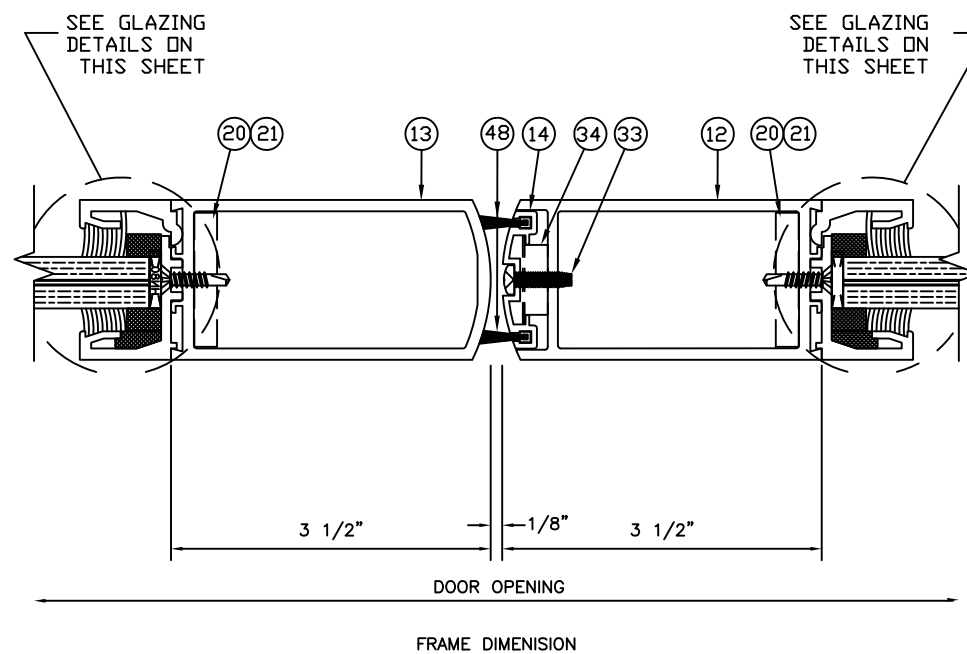
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FOR ITEM
NUMBER
DESCRIPTIONS,
SEE BOM ON
SHEET 6

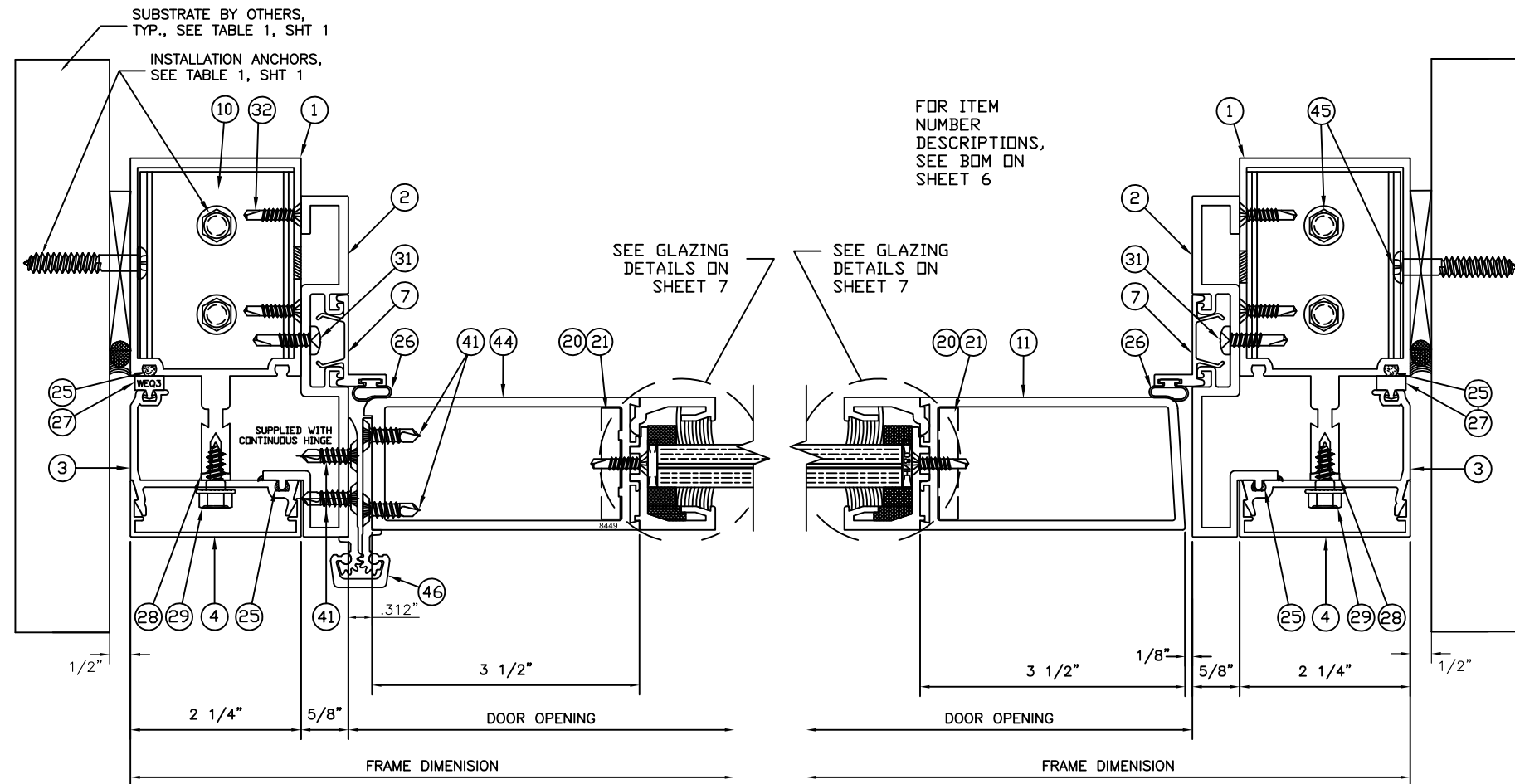
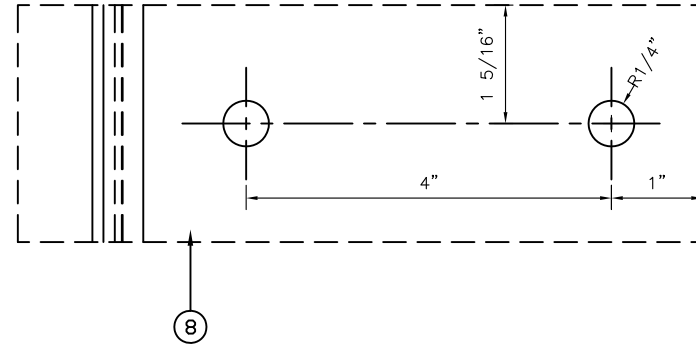


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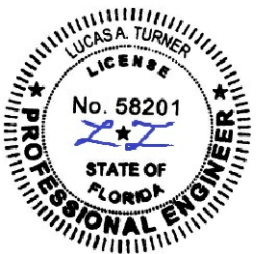
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DRAWN BY TKEE	SCALE	REV.	 EFCO CORPORATION 1000 County Road - Monett, Missouri 65708	D300 PAIR W/ CVR PANIC W/ CW ADAPTER IN 5600	DRAWING # FPA-D300	SHEET 7 of 9
DATE 11-6-13						



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DATE 11-6-13						