

RT-ASI SERIES GLAZED ALUMINUM DOORS

LEVEL D & LEVEL E IMPACT RESISTANT,
INSWING & OUTSWING, SINGLES & PAIRS

GENERAL NOTES:

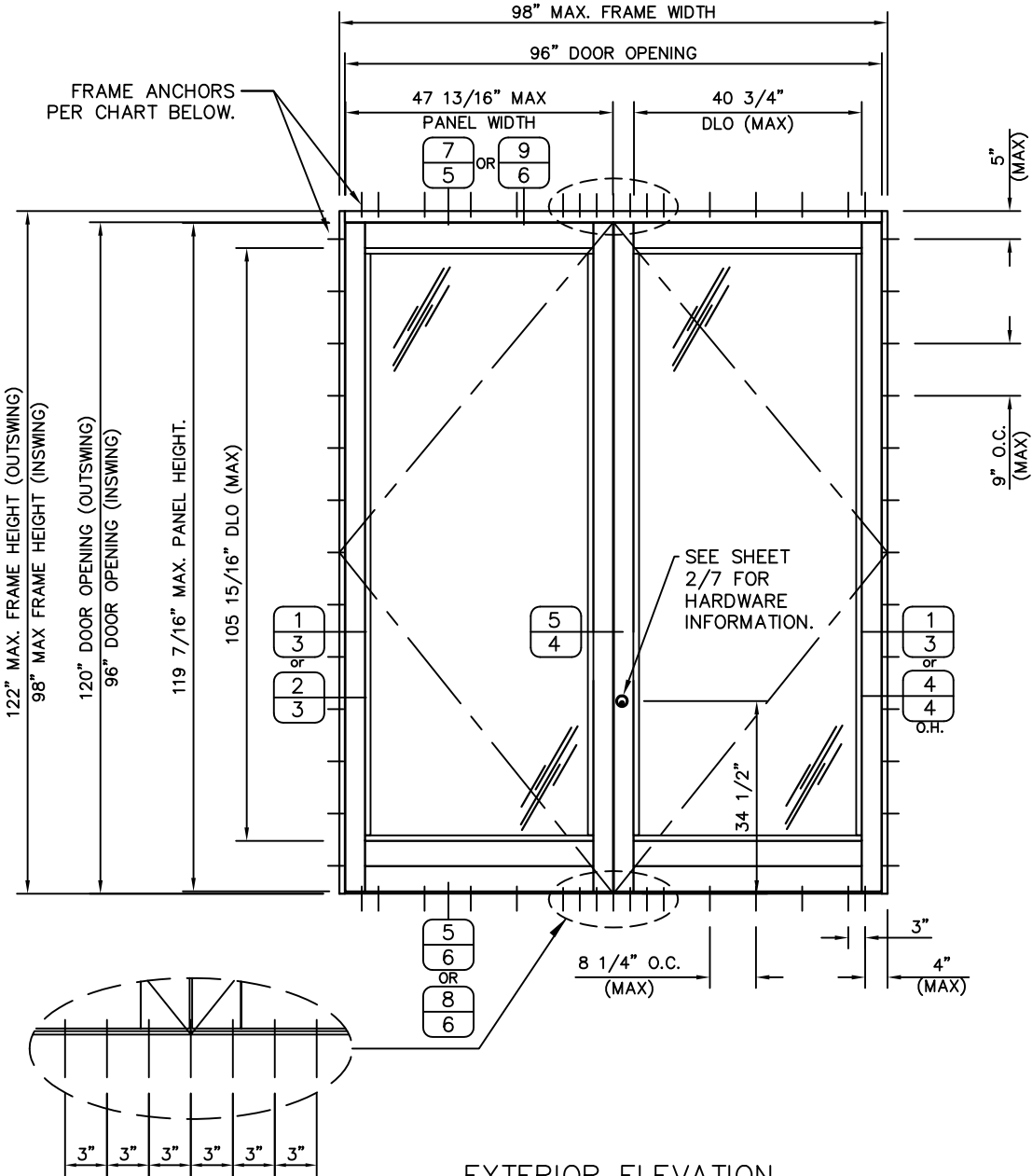
- 1. THIS PRODUCT HAS BEEN TESTED PER TAS 201, 202, 203. ASTM E1886, AND ASTM E1996. IT MEETS ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVZH PROVISIONS.
- 2. GLASS TYPES GL1, GL2, & GL4 ARE LEVEL D LARGE AND SMALL MISSILE IMPACT RESISTANT, AND GLASS TYPE GL3 IS LEVEL E LARGE AND SMALL MISSILE IMPACT RESISTANT. SHUTTERS ARE NOT REQUIRED IN WINDBORNE DEBRIS REGIONS.
- 3. OPENING SUBSTRATES, WOOD BUCKS (OPTIONAL), AND WOOD BUCK FASTENERS ARE BY OTHERS AND MUST BE DESIGNED AND INSTALLED PER FBC REQUIREMENTS TO SAFELY TRANSFER THE LOADS FROM THIS SYSTEM TO THE BUILDING STRUCTURE. SUBSTRATES SHALL MEET THE MIN STRENGTH REQUIREMENTS LISTED IN THE ANCHOR CHART BELOW.
- 4. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS LISTED IN THE ANCHOR CHART BELOW, ANCHOR EMBEDMENT IN SUBSTRATE SHALL BE BEYOND ANY WALL DRESSING OR STUCCO.
- 5. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
- 6. NO INCREASES IN ALLOWABLE STRESS FOR SHORT-TERM LOADING HAVE BEEN USED IN THE DESIGN OF THIS SYSTEM. THE 1.6 Cd FACTOR HAS BEEN USED IN THE ANALYSIS OF WOOD SCREWS ONLY.
- 7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS.

CORNER CONSTRUCTION:

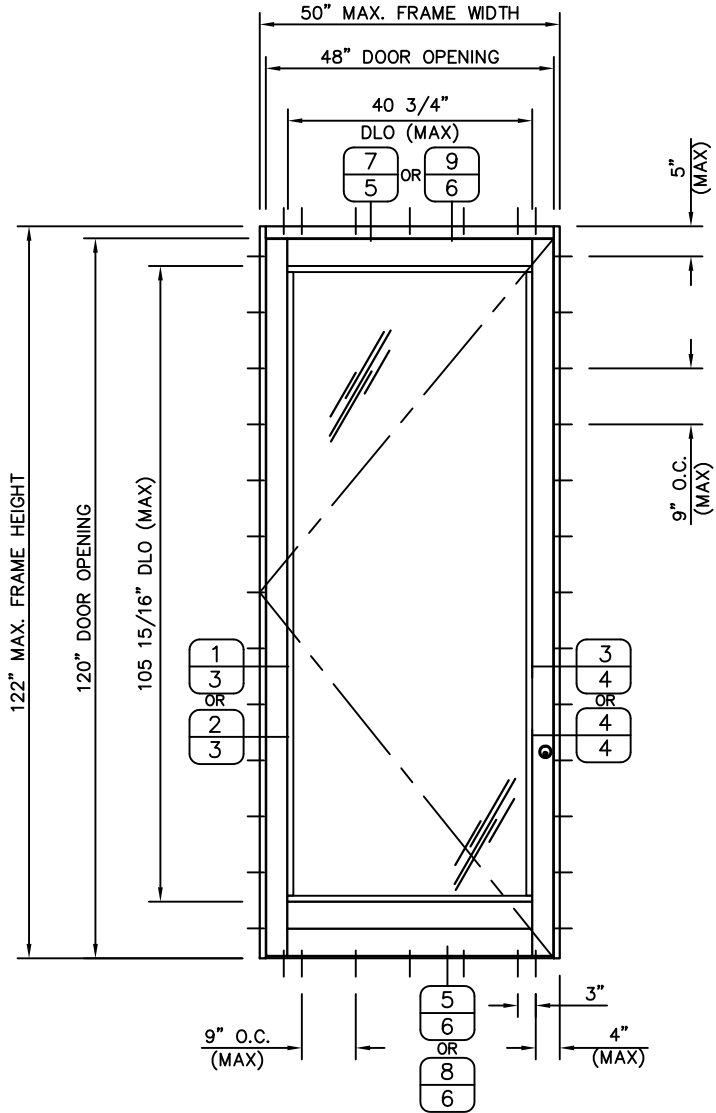
- 1. FRAME HEAD – THE FRAME HEAD IS SQUARE CUT, BUTTED, AND FASTENED THRU THE JAMBS INTO SCREW SPLINES WITH WITH (4) #12x1 1/2" SS HWH SCREWS.
- 2. THRESHOLD – THE THRESHOLD IS SQUARE CUT, BUTTED, AND FASTENED THRU THE JAMBS INTO SCREW SPLINES WITH (2) #12x1 1/2" SS HWH SCREWS.
- 3. PANEL CORNERS – DOOR RAILS ARE SQUARE CUT, BUTTED, AND FASTENED BETWEEN STILES WITH (1) 3/8" SS THREADED ROD IN THE TOP RAIL AND (2) 3/8" SS THREADED RODS IN THE BOTTOM RAIL. THE THREADED RODS RUN THRU SCREW RACES IN THE RAILS AND FASTEN AT THE STILES WITH 3/8" SS LOC-NUTS AND FLAT WASHERS.

ANCHOR CHART			
SUBSTRATE	FASTENER TYPE	MINIMUM EMBEDMENT	MIN EDGE DISTANCE
STEEL (1/8", A36 MIN)	1/4" DIA F-TYPE THREAD-FORMING SCREW (SAE Gr. 5 min)	FULL*	1"
ALUMINUM (1/8", 6063-T6 MIN)	1/4" DIA F-TYPE THREAD-FORMING SCREW (SAE Gr. 5 min)	FULL*	1"
METAL STUDS (16 Ga, Fut=45 ksi min)	1/4" DIA TEKS-TYPE SELF-DRILLING SCREW (SAE Gr. 5 min)	FULL*	1"
CONCRETE (3150 ksi, MIN)	1/4" DIA DEWALT ULTRACON or ITW TAPCON CONCRETE SCREW	1 3/4"	2 1/2"
CMU BLOCK (ASTM C90, MIN) (JAMBS ONLY)	1/4" DIA DEWALT ULTRACON or ITW TAPCON CONCRETE SCREW	1 3/4"	2 1/2"

* METAL SCREWS MUST FULLY PENETRATE THE WALL OF THE METAL STUD, WITH THREE ADDITIONAL THREADS BEYOND.

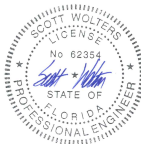


EXTERIOR ELEVATION
(INSWING or OUTSWING)

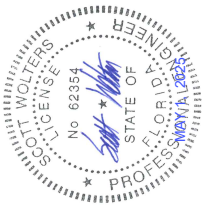


EXTERIOR ELEVATION
(INSWING or OUTSWING)

PLEASE SEE SHEET 2/7 FOR APPROVED
GLASS TYPES, DOOR HARDWARE, AND
MAX DESIGN PRESSURES.



Digitally signed
by Scott Walters
Date: 2025.05.01
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SEAL
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

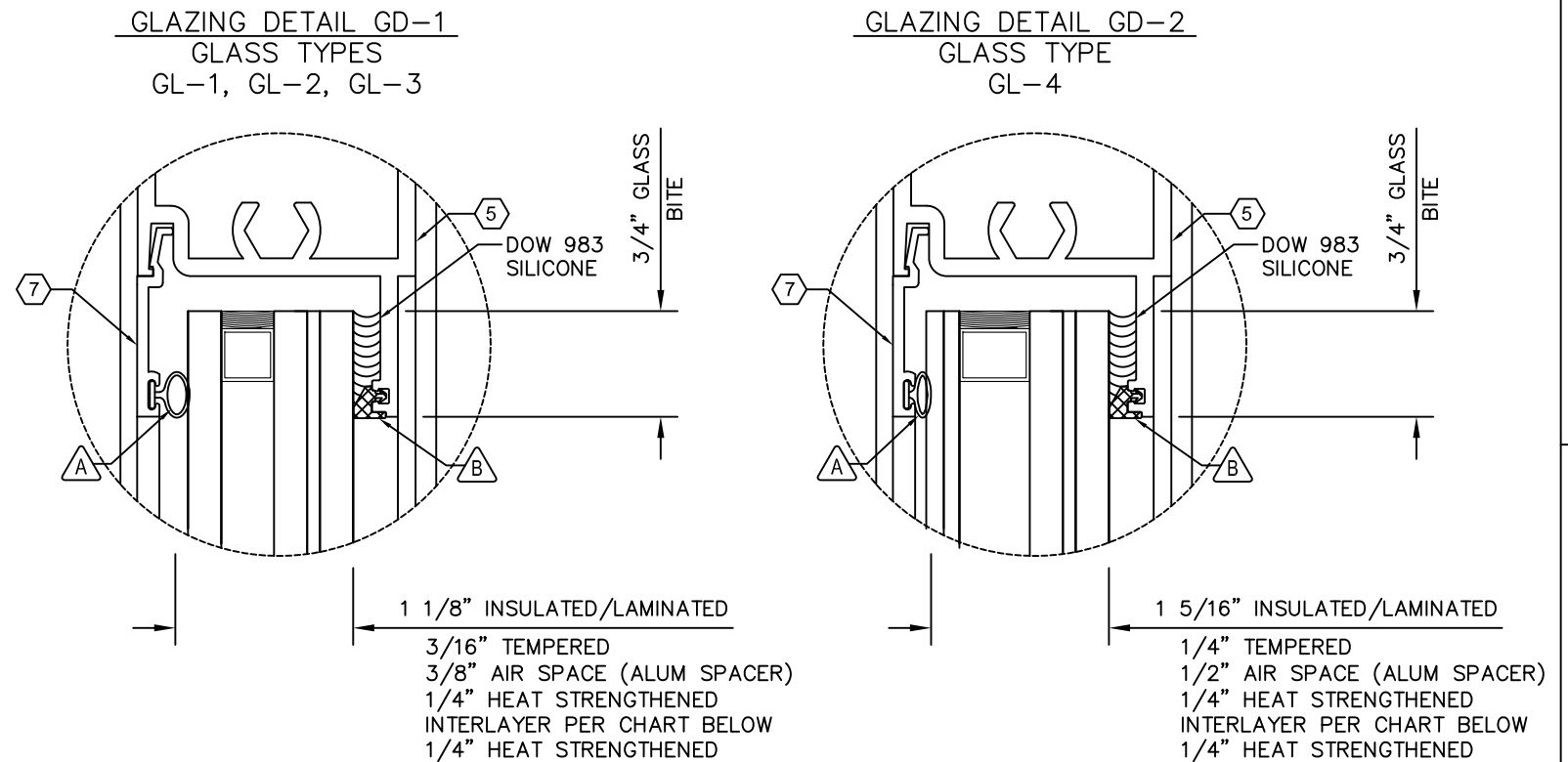
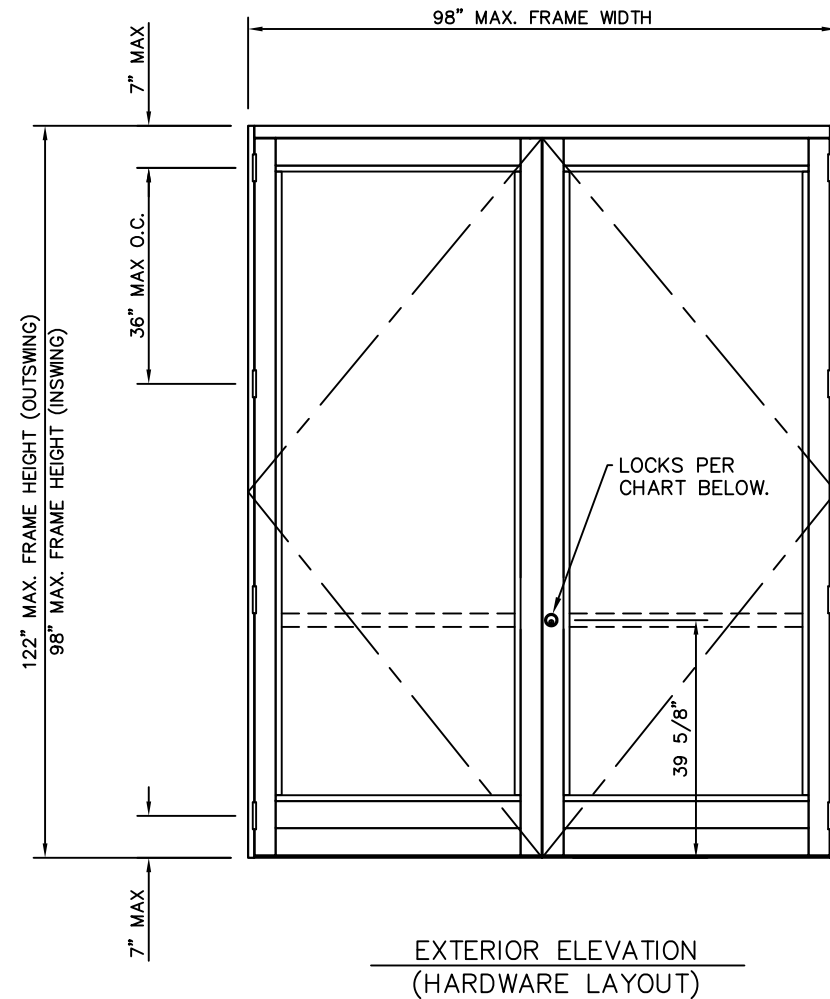
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PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT-ASI-HZ
SHEET: 1/7

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GLASS AND HARDWARE OPTIONS



GLAZING OPTIONS					
GLAZING DETAIL	GLASS TYPE	INTERLAYER	IMPACT RATING	MAX DLO SIZE	MAX DESIGN PRESSURE (psf)
GD-1	GL-1	0.090" PVB ES	LEVEL D	40 3/4"x105 15/16"	+/-75
	GL-2	0.090" SENTRYGLAS	LEVEL D	40 3/4"x105 15/16"	+/-120
	GL-3	0.180" SENTRYGLAS	LEVEL E	40 3/4"x105 15/16"	+/-120
GD-2	GL-4	0.090" SENTRYGLAS	LEVEL D	40 3/4"x81 15/16"	+75/-132

ALL INTERLAYERS ARE BY KURARAY AMERICA, INC.

LOCK OPTIONS - SINGLE DOORS				
SWING	IMPACT RATING	LOCK TYPE	MAX DOOR OPENING (in)	MAX DESIGN PRESSURE (psf)
OUTSWING	LEVEL D	VON DUPRIN 98/9947 CVR PANIC	48 x 96	+75/-132
			48 x 120	+/- 75
		BEST 2800 SERIES CVR PANIC	48 x 120	+/- 120
	LEVEL E	AHT 8000 SERIES CVR PANIC	48 x 120	+/- 120
		ADAMS RITE 1850 3-POINT LOCK with VON DUPRIN 98/99EO RIM PANIC**	48 x 120	+/- 120
INSWING	LEVEL D	SARGENT 7000 SERIES 3-POINT LOCK	48 x 96	+75/-132
		ADAMS RITE 1850 3-POINT LOCK	48 x 96	+75/-132
	LEVEL E	ADAMS RITE 1850 3-POINT LOCK with VON DUPRIN 98/99EO RIM PANIC**	48 x 120	+/- 120

**** 3-POINT LOCK MUST BE ENGAGED FOR ANY WEATHER EVENT
WITH WINDSPEEDS > 75 mph.**

LOCK OPTIONS - PAIRS				
SWING	IMPACT RATING	LOCK TYPE	MAX DOOR OPENING (in)	MAX DESIGN PRESSURE (psf)
OUTSWING	LEVEL D	VON DUPRIN 98/9947 CVR PANIC	96 x 120	+/- 75
		BEST 2800 SERIES CVR PANIC	96 x 120	+/- 120
	LEVEL E	AHT 8000 SERIES CVR PANIC	48 x 120	+/- 120
INSWING	LEVEL D	ADAMS RITE 1850 5-POINT LOCK	96 x 96	+75/-132

HINGE OPTIONS - ALL DOORS			
HINGE TYPE	MATERIAL	FASTENERS	MAX DESIGN PRESSURE (psf)
MCKINNEY/ASSA ABLOY 4" x 4 1/2" BUTT HINGES, (4) PER LEAF	STAINLESS STEEL	#12-24 x 1/2" SS UNDERCUT FHMS (4) PER SIDE	+/- 120
MCKINNEY/ASSA ABLOY CONTINUOUS HINGE	ALUMINUM	#12-24 x 1/2" SS UNDERCUT FHMS 2" FROM ENDS AND 6" MAX O.C.	+/- 120
IVE 122HD/114XY CONTINUOUS HINGE	ALUMINUM	#12-24 x 1/2" SS UNDERCUT FHMS 2" FROM ENDS AND 6" MAX O.C.	+75/-132

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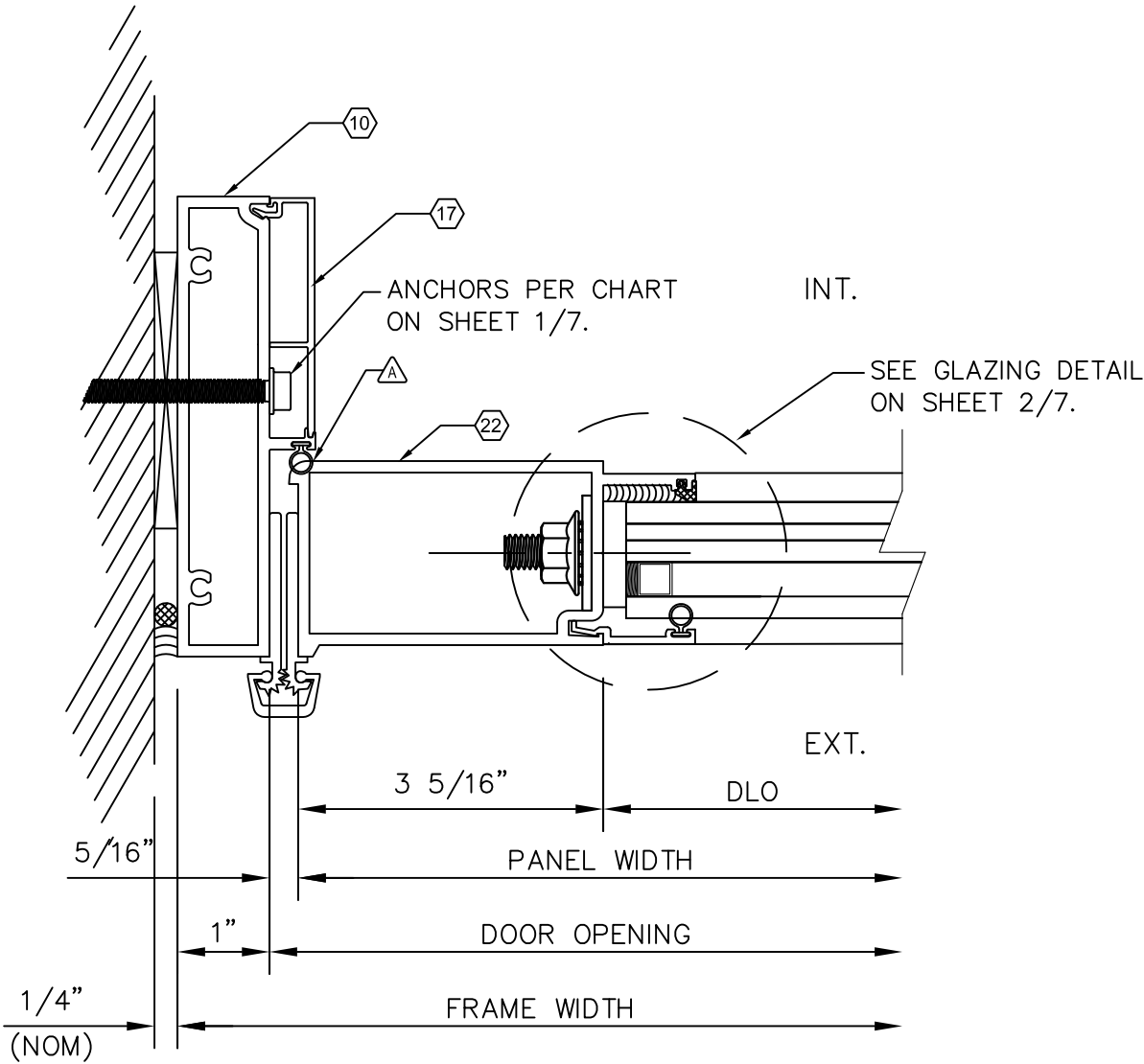


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SHEET: 2 / 2

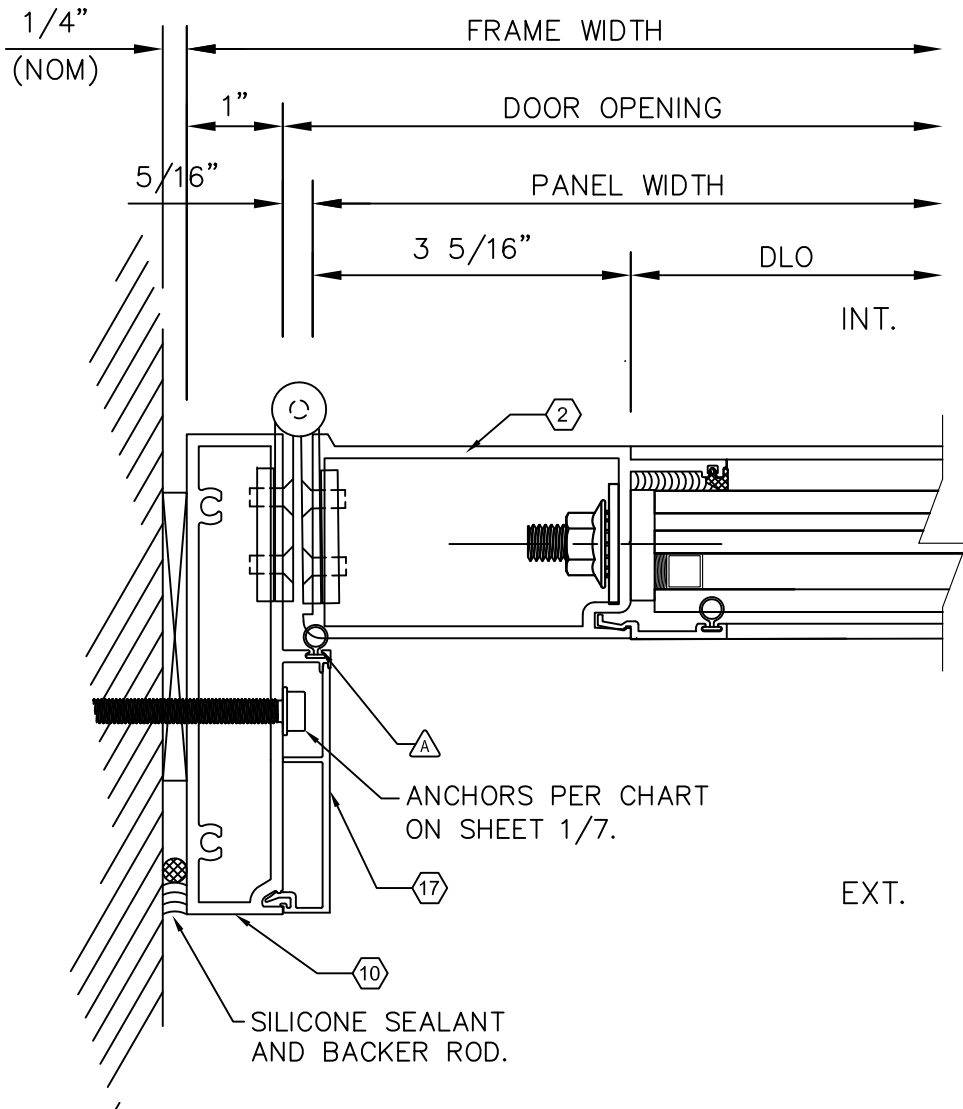
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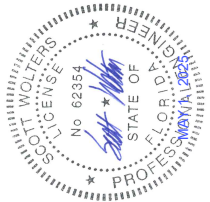
HINGE JAMB DETAILS



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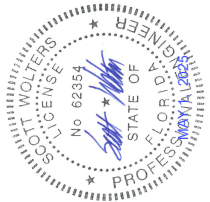
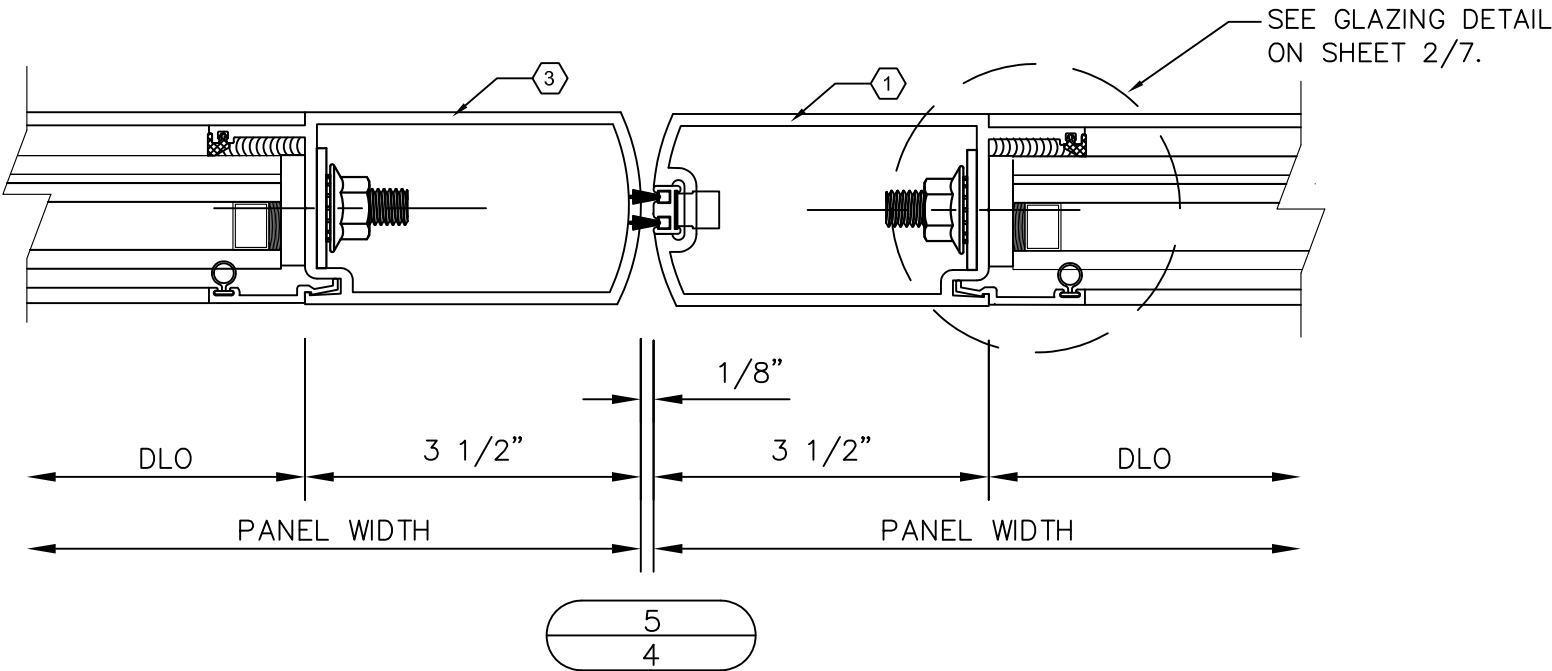
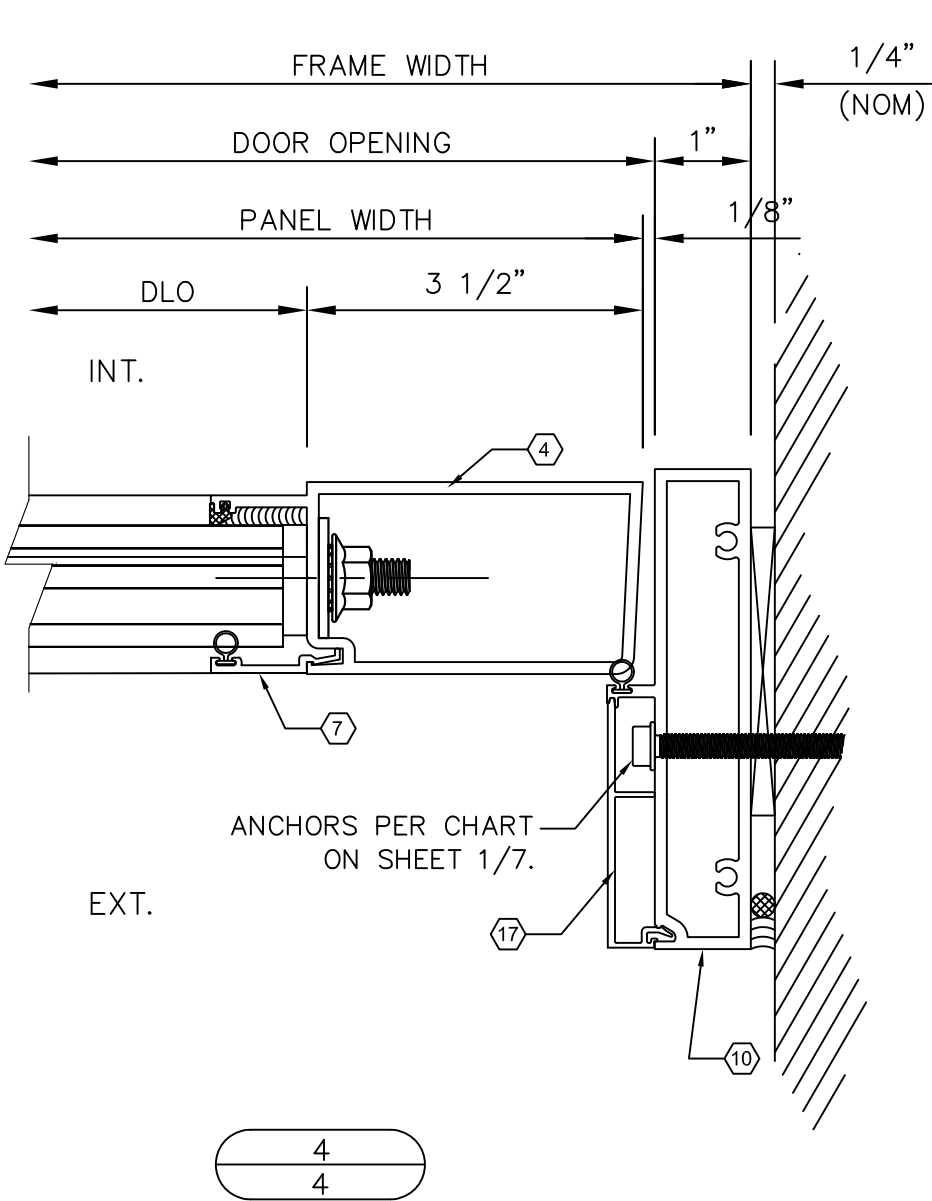
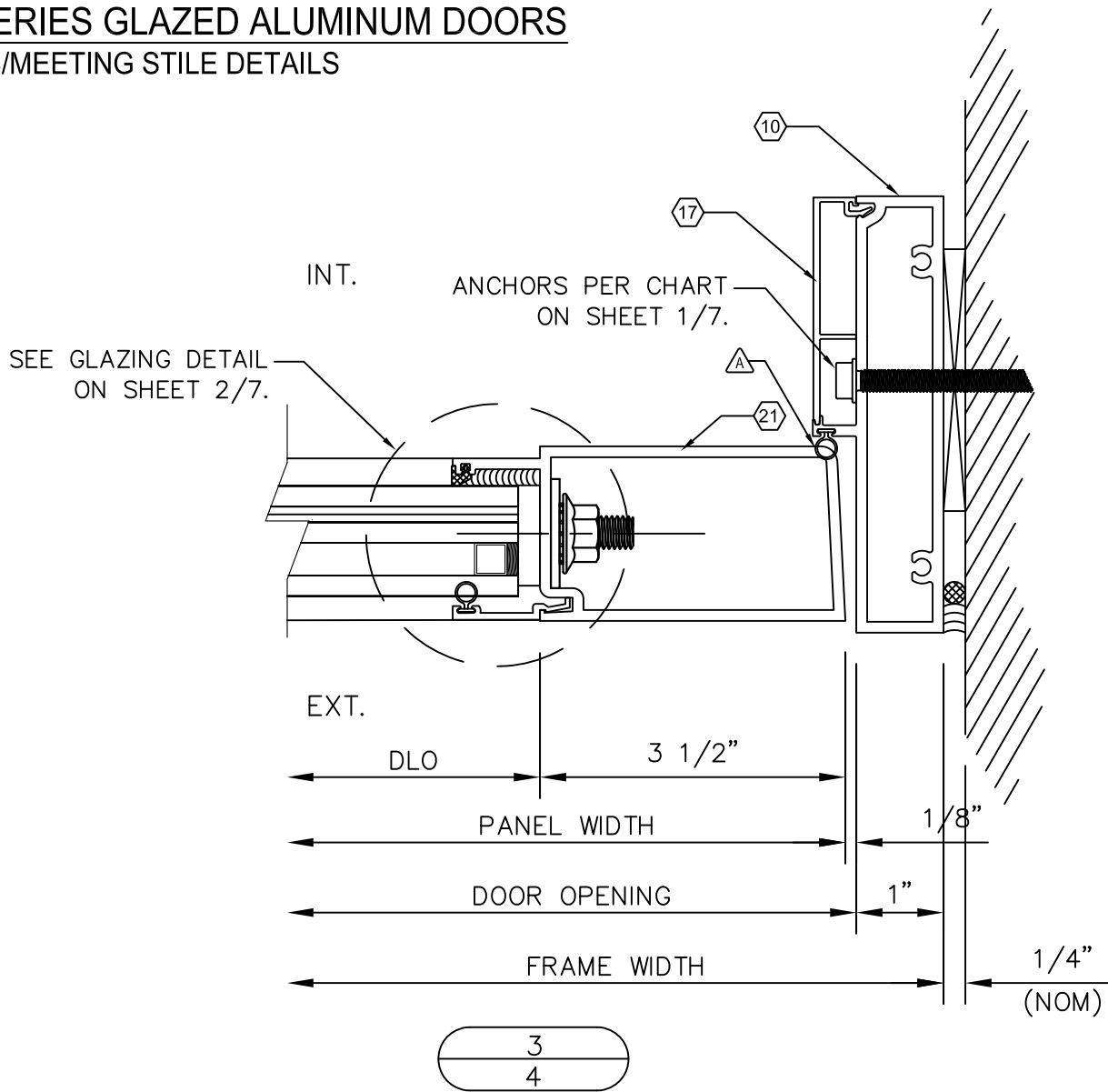
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REVISION	1	5/1/25			
FIRST SUBMITTAL	-	4/30/23			
PRINTS ISSUED FOR	REV.#	DATE			

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600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937



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SHEET: 3/7

RT-ASI SERIES GLAZED ALUMINUM DOORS
LOCK JAMB/MEETING STILE DETAILS

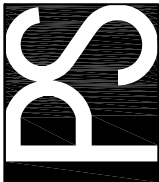


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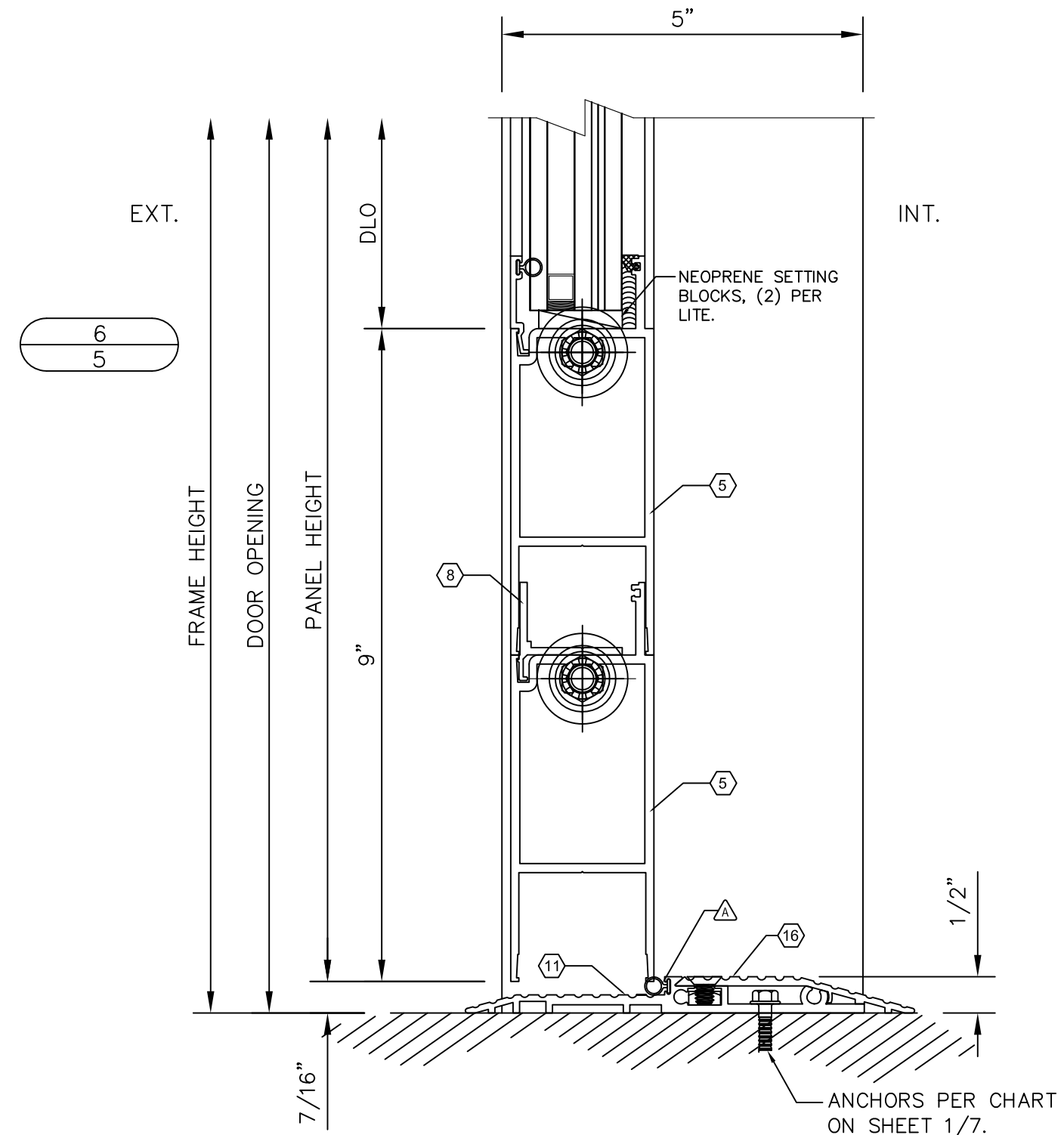
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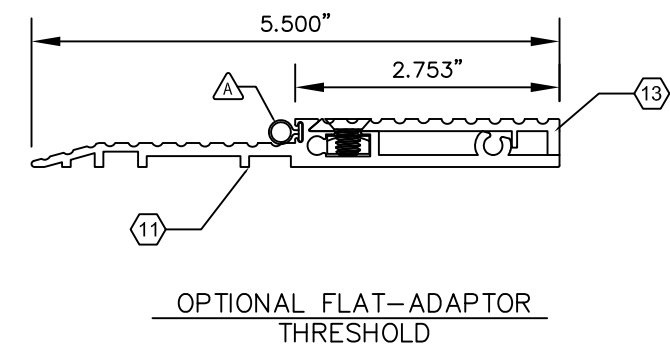
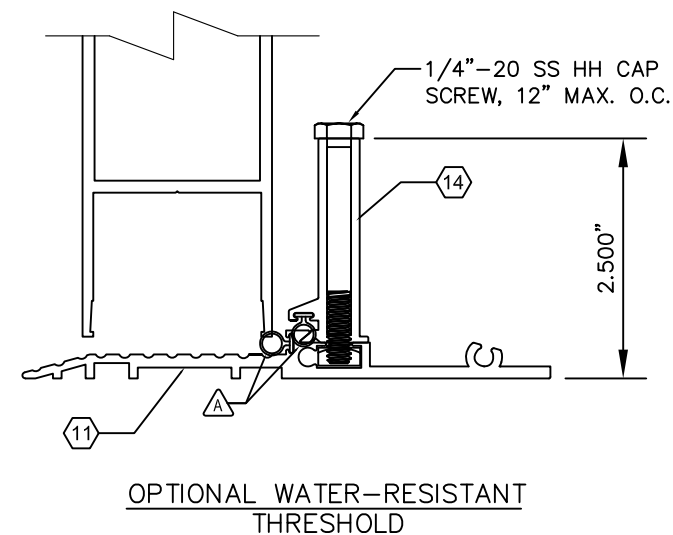
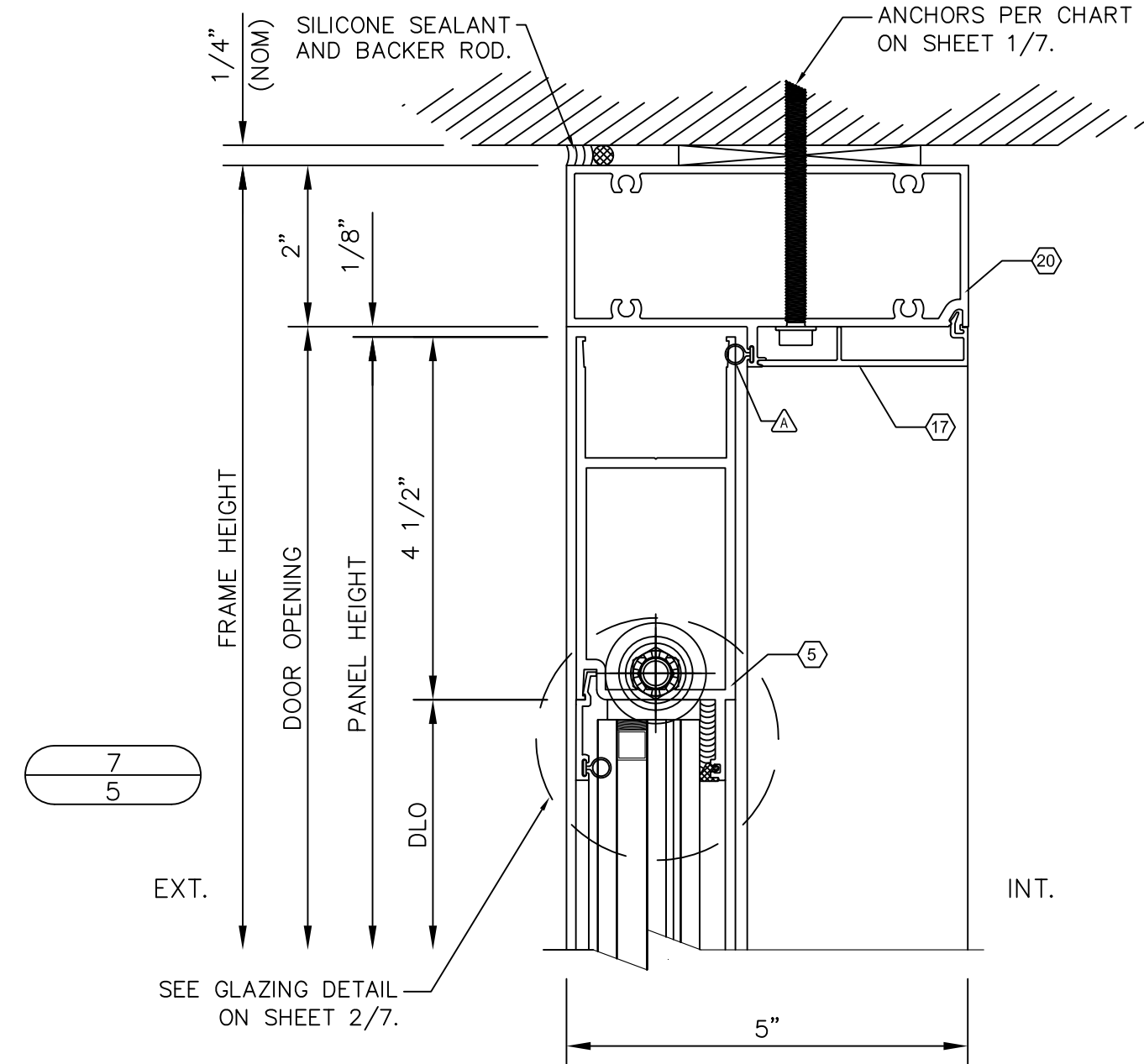
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SHEET: 4/7

RT-ASI SERIES GLAZED ALUMINUM DOORS



THE STANDARD THRESHOLD IS APPROVED FOR USE IN AREAS WHERE RESISTANCE TO WATER INFILTRATION IS NOT REQUIRED OR WHERE THE DOOR IS PROTECTED BY AN OVERHANG PER FBC SECTION 1709.5.1.

WHEN RESISTANCE TO WATER INFILTRATION IS REQUIRED, THE OPTIONAL WATER DAM (PART #14) MUST BE INSTALLED

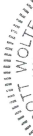


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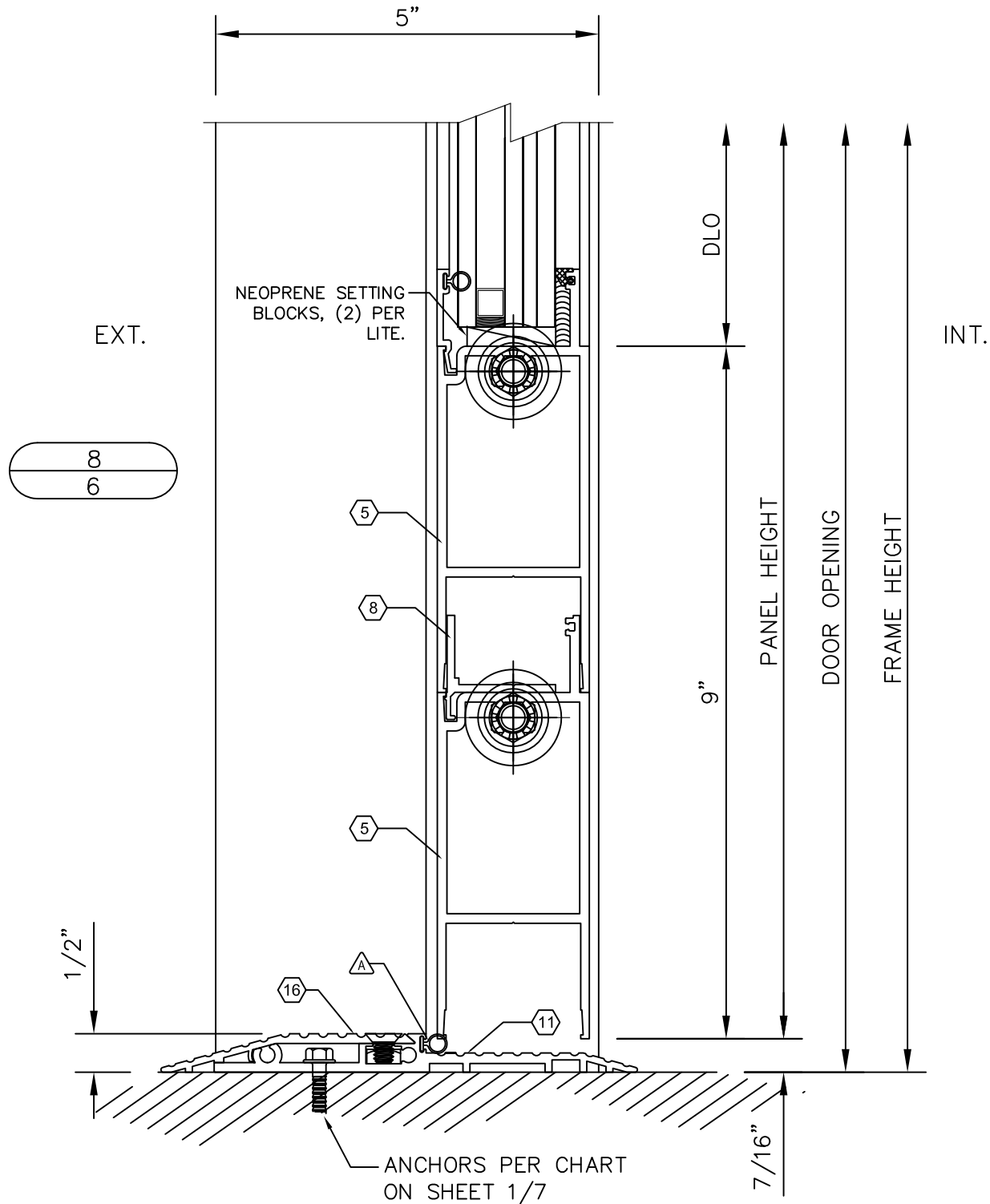
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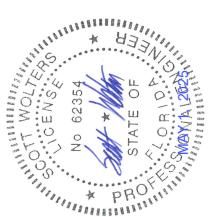
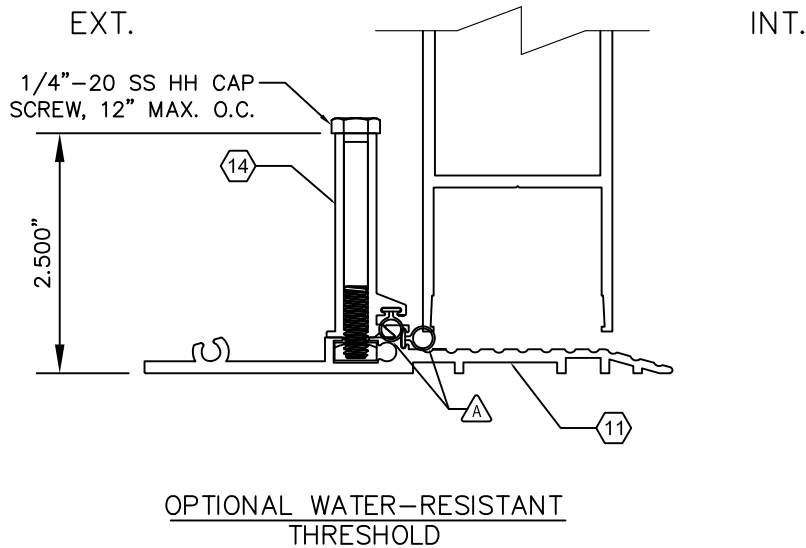
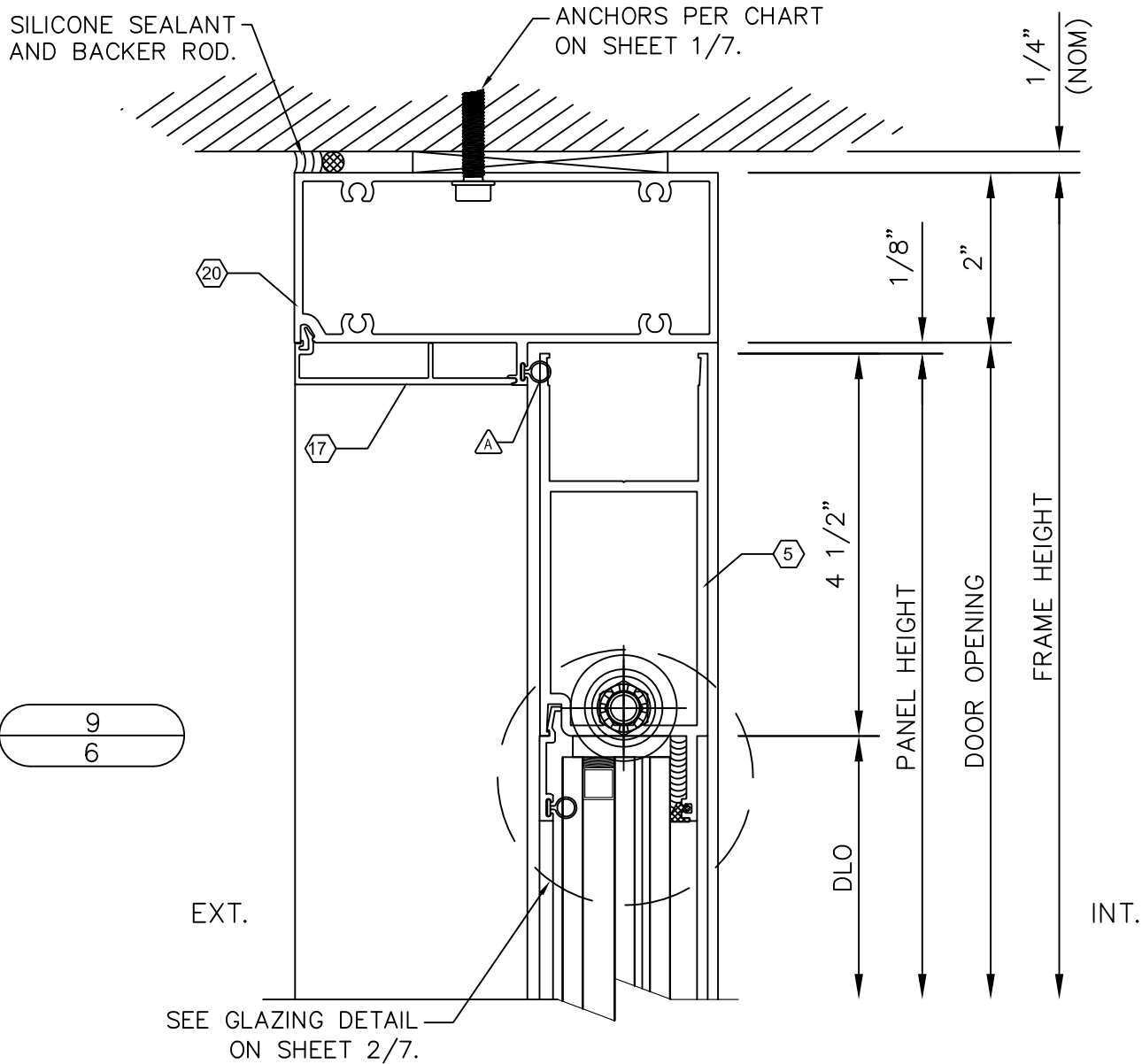


RT-ASI SERIES GLAZED ALUMINUM DOORS
INSWING DETAILS



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WHEN RESISTANCE TO WATER INFILTRATION IS REQUIRED, THE OPTIONAL WATER DAM (PART #14) MUST BE INSTALLED



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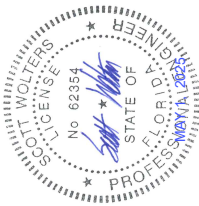
DWG: RT-ASI-HZ
SHEET: 6/7

BILL OF MATERIALS

TAG	PROFILE	MANUF. PART #	NOTES
	 1:1	ASI-E276 E276	.250 BULB GASKET POLYPROPYLENE
	 1:1	ASI-2562 2562-02-00	.187 PRESET GASKET 80 DURO.

TAG	PART No.	DETAIL	DESCRIPTION	LB/IN	PERIMETER INCH
1	ASI-LW01	 1:4	3.5 LOCK STILE	0.15	14.50
2	ASI-LW02	 1:4	3.5 IG HINGE STILE	0.15	13.95
3	ASI-LW03	 1:4	3.5 ASTRAGAL STILE	.014	13.73
4	ASI-LW04	 1:4	3.5 IG BEVEL STILE	0.15	14.06
5	ASI-LW05	 1:4	4.5 TOP & BOTTOM RAIL	0.17	19.17
6	ASI-LW06	 1:4	MID-RAIL ADAPTER	0.06	11.52
7	ASI-LW07	 1:4	1.1 GLAZING BEAD	0.01	3.60
8	ASI-LW08	 1:4	SHEAR BLOCK	0.03	5.66
9	ASI-LW09	 1:4	2.5 DOOR FRAME	0.17	16.87
10	ASI-LW10	 1:4	1.0 DOOR FRAME	0.16	13.90

TAG	PART No.	DETAIL	DESCRIPTION	LB/IN	PERIMETER INCH
11	ASI-LW11		WATER DAM THRESHOLD	0.08	15.64
12	ASI-LW12		-----	----	---
13	ASI-LW13		THRESHOLD FLUSH ADAPTER	0.03	6.67
14	ASI-LW14		WATER DAM	0.05	6.37
15	ASI-LW15		-----	----	----
16	ASI-LW16		THRESHOLD SLOPE ADAPTER	0.03	7.68
17	ASI-LW17		FRAME STOP COVER	0.03	7.91
18	ASI-LW18		-----	---	----
19	ASI-LW19		THRESHOLD SLOPE ADAPTER	0.03	7.68
20	ASI-LW20-1		2.0 DOOR FRAME	0.16	15.87
21	ASI-LW21-1		3.5 OG BEVEL STILE	0.15	13.95
22	ASI-LW22-1		3.5 OG HINGE STILE	0.15	14.06
23	ASI-LW23-1		1.0 CLOSER STOP COVER	0.05	11.81



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7/7