

SERIES SGD4130-W IMPACT RESISTANT
SLIDING GLASS WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

6) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

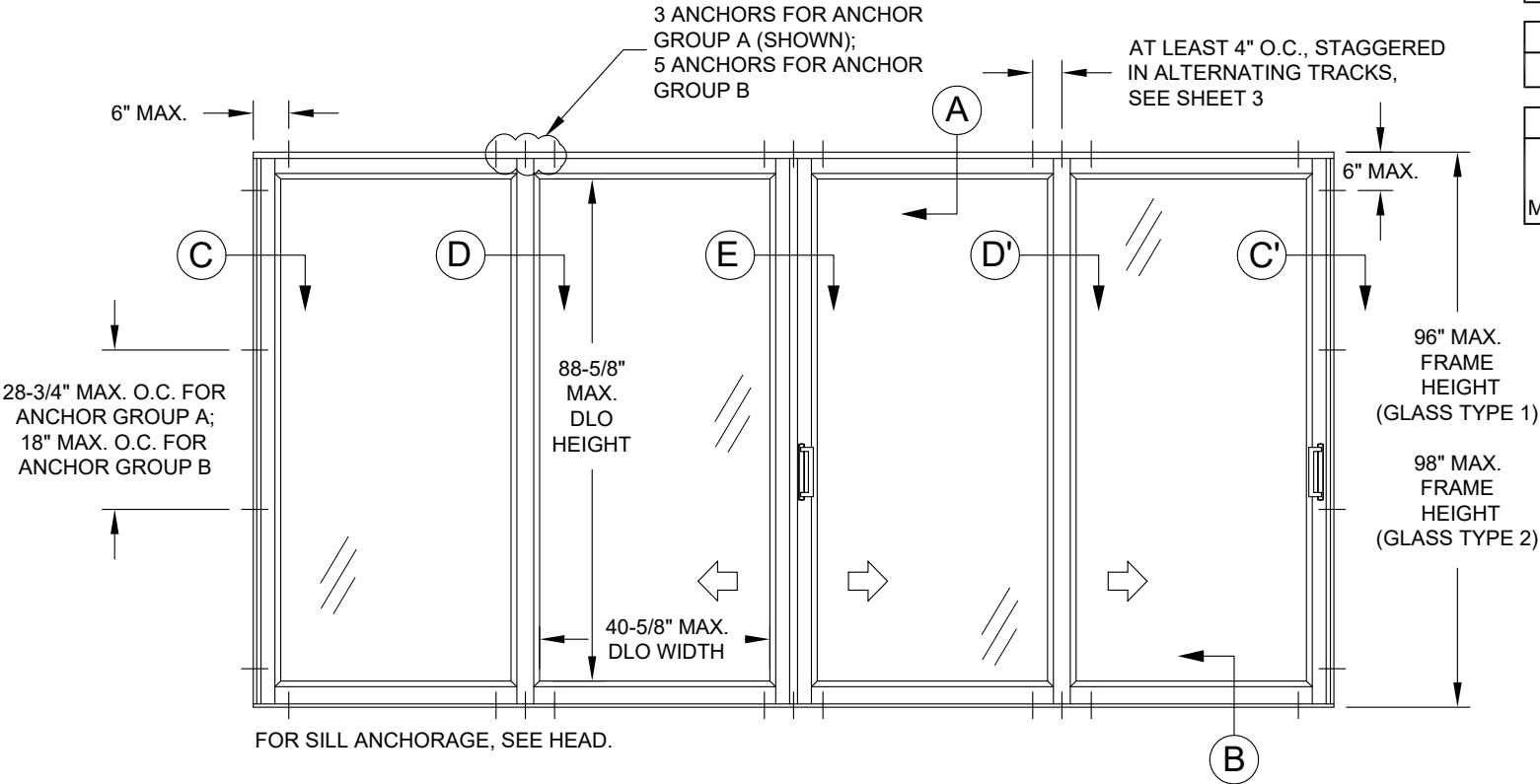
7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

8) REFER TO CURRENT FLORIDA BUILDING CODE FOR EGRESS REQUIREMENTS.

9 IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R332 OF THE FBC, RESIDENTIAL.

FLORIDA PRODUCT APPROVAL #1844



TYP. ANCHOR LOCATIONS

4 PANEL, 2 TRACK BYPASS OXXX
CONFIGURATION SHOWN.

TABLE 1:

Anchor Group	Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
A	#12 SMS Carbon Steel or 18-8, 316,410 SS	Southern Pine (SG = .55)	9/16"	1-3/8"
		Aluminum, 6063-T5 min.	3/8"	1/8"
		Steel Stud, 16 Ga., Gr. 33 min.	3/8"	0.0566"
		A36 Steel	3/8"	0.050"
	1/4" Steel Ultracon+	Concrete (min. 3.0 ksi)	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Southern Pine (SG = .55)	1"	1-3/8"
	1/4" 410 SS CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Southern Pine (SG = .55)	1"	1-3/8"
B	1/4" Steel Ultracon+	Concrete (min. 3.0 ksi)	1-5/8"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	1/4" 410 SS CreteFlex	Concrete (min. 3.35 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1-1/4"	1-1/4"
	1/4" 304 SS Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"

- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) ALL SCREWHEAD TYPES ARE APPLICABLE.
3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
4) IF COMBINING ANCHOR TYPES FROM DIFFERENT ANCHOR GROUPS ON THE SAME UNIT, THE GREATER ANCHOR QUANTITY FROM EITHER GROUP SHALL BE USED FOR THE ENTIRE UNIT.
5) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

UNLIMITED NUMBER OF PANELS IN ANY 2-TRACK OR 3-TRACK CONFIGURATION USING VERTICAL CONDITIONS SHOWN ON SHEET 2 ARE APPROVED AS LONG AS THE PANEL DLO WIDTH DOES NOT EXCEED THE TESTED DLO WIDTH OF 40-5/8" AND THE TESTED FRAME HEIGHT OF 98" IS NOT EXCEEDED.

ADDITIONALLY, FOR INSTALLATIONS IN THE HVHZ, MAXIMUM FRAME AREA OF 194.6 SQUARE FEET MAY NOT BE EXCEEDED.

DESIGN PRESSURE RATING
+55.0 / -65.0 PSF
WATER TEST PRESSURE
15% OF (+) DP
IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RESISTANT MISSILE LEVEL D, WIND ZONE 4

PREPARED BY A LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
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PGT[®] WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

07/07/26

JENS ROSOWSKI

1 OF 4

SGD4130W-LM-HVHZ

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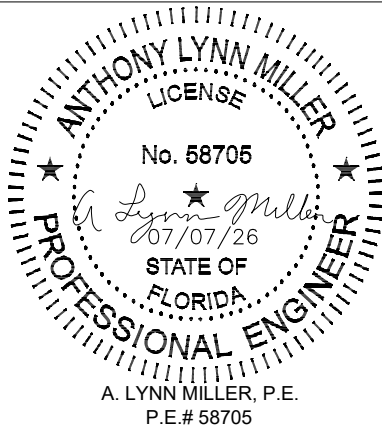
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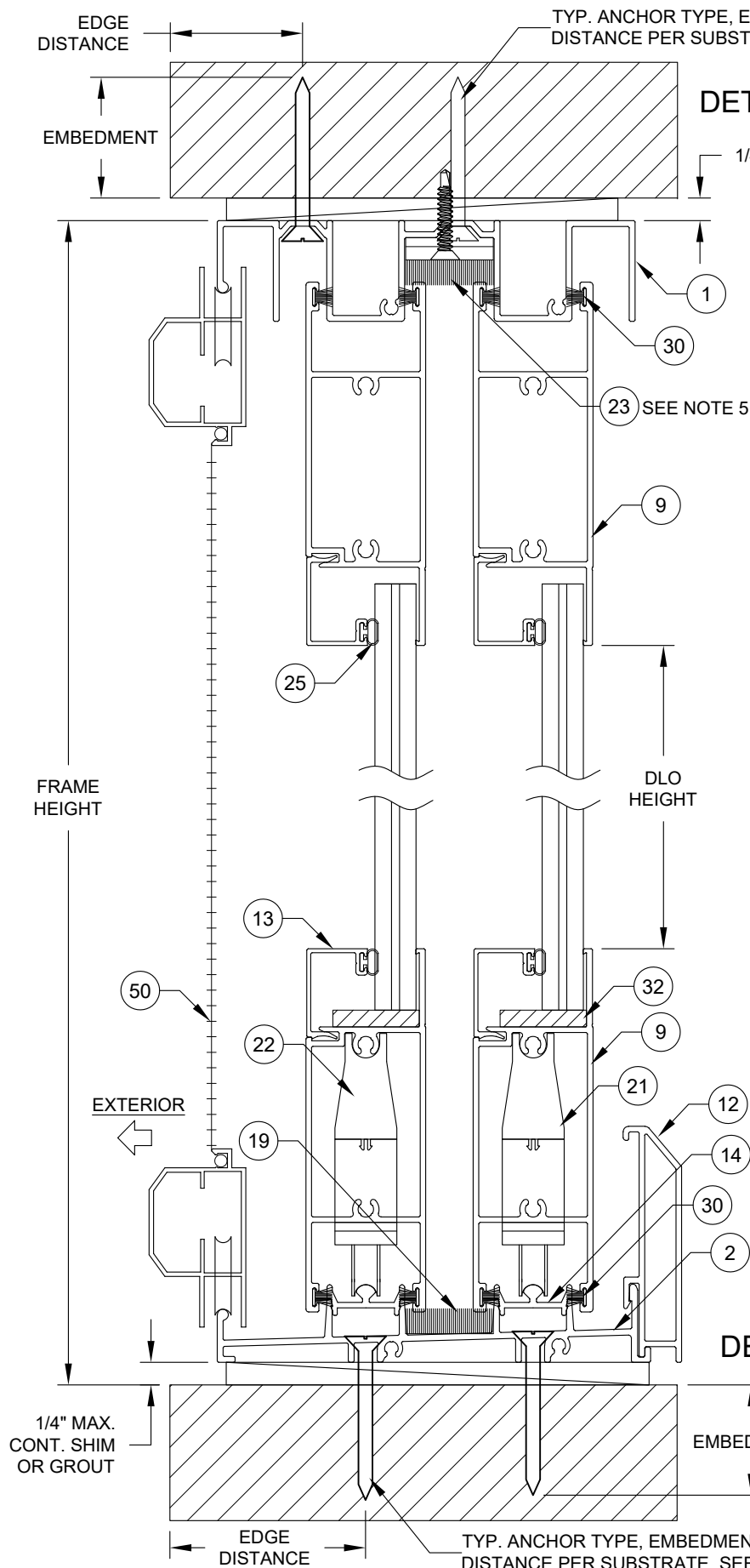
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DETAIL A

2-TRACK HEAD SHOWN, MAY ALSO BE 3-TRACK, #4

DETAIL D

DETAIL D' SIMILAR

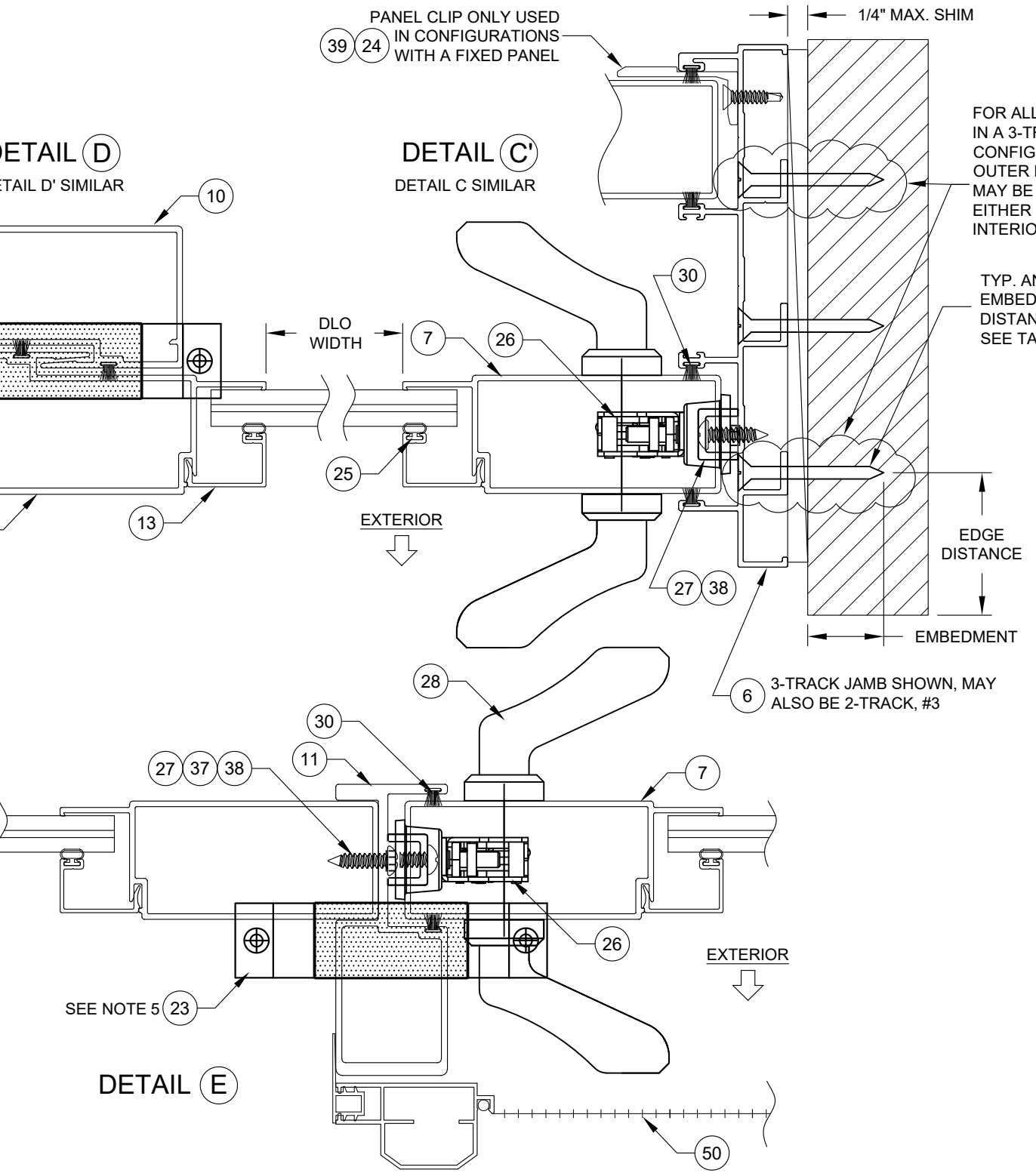
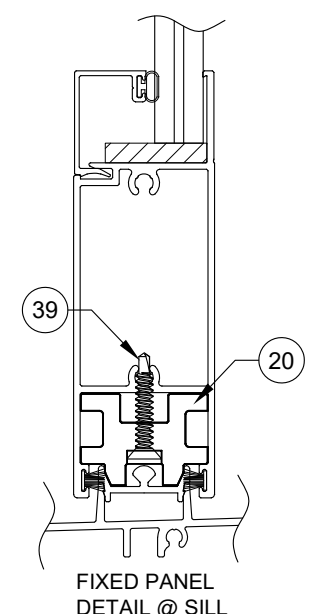
DETAIL C'

DETAIL C SIMILAR

DETAIL E

DETAIL B

2-TRACK SILL SHOWN, MAY ALSO BE 3-TRACK, #5

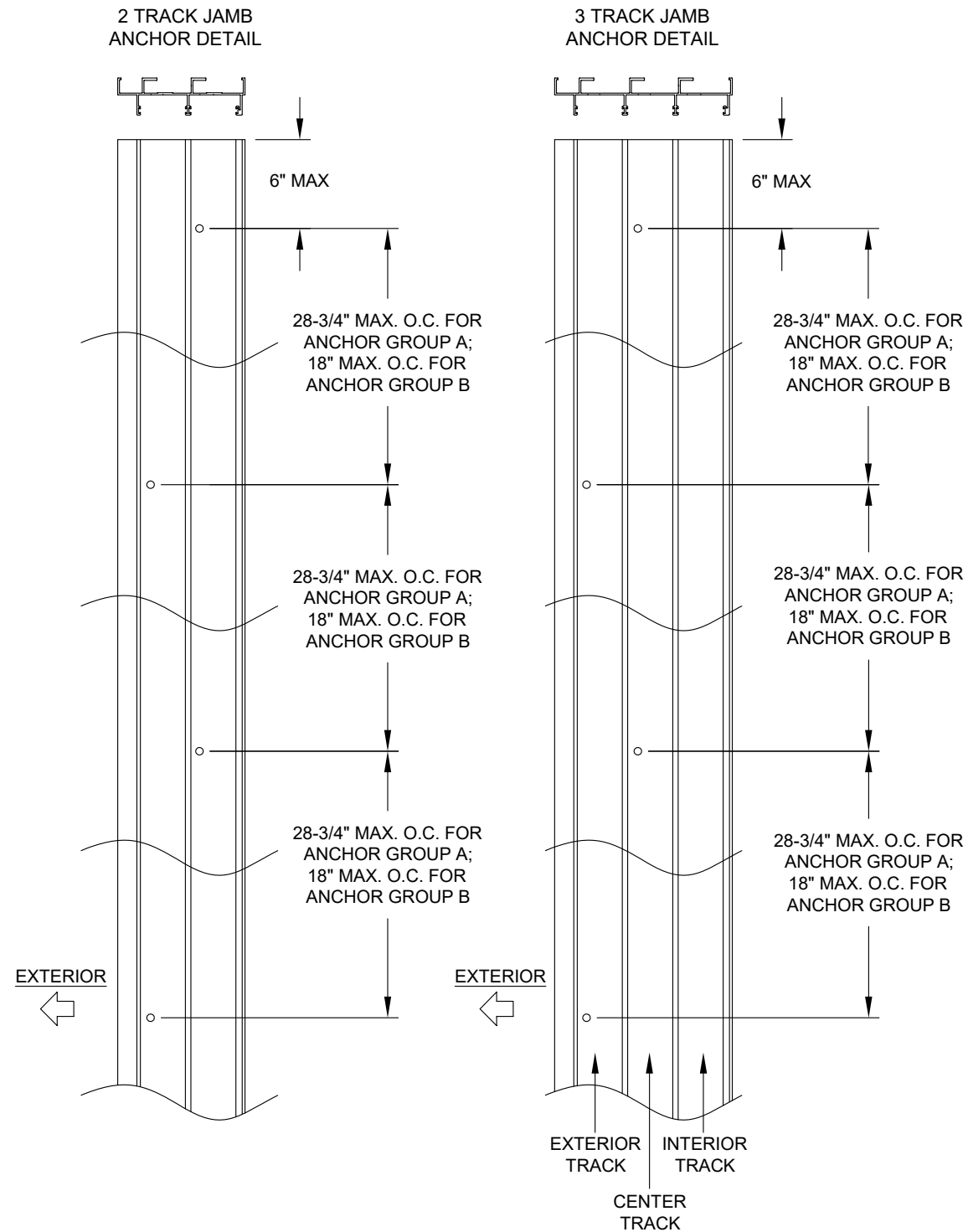


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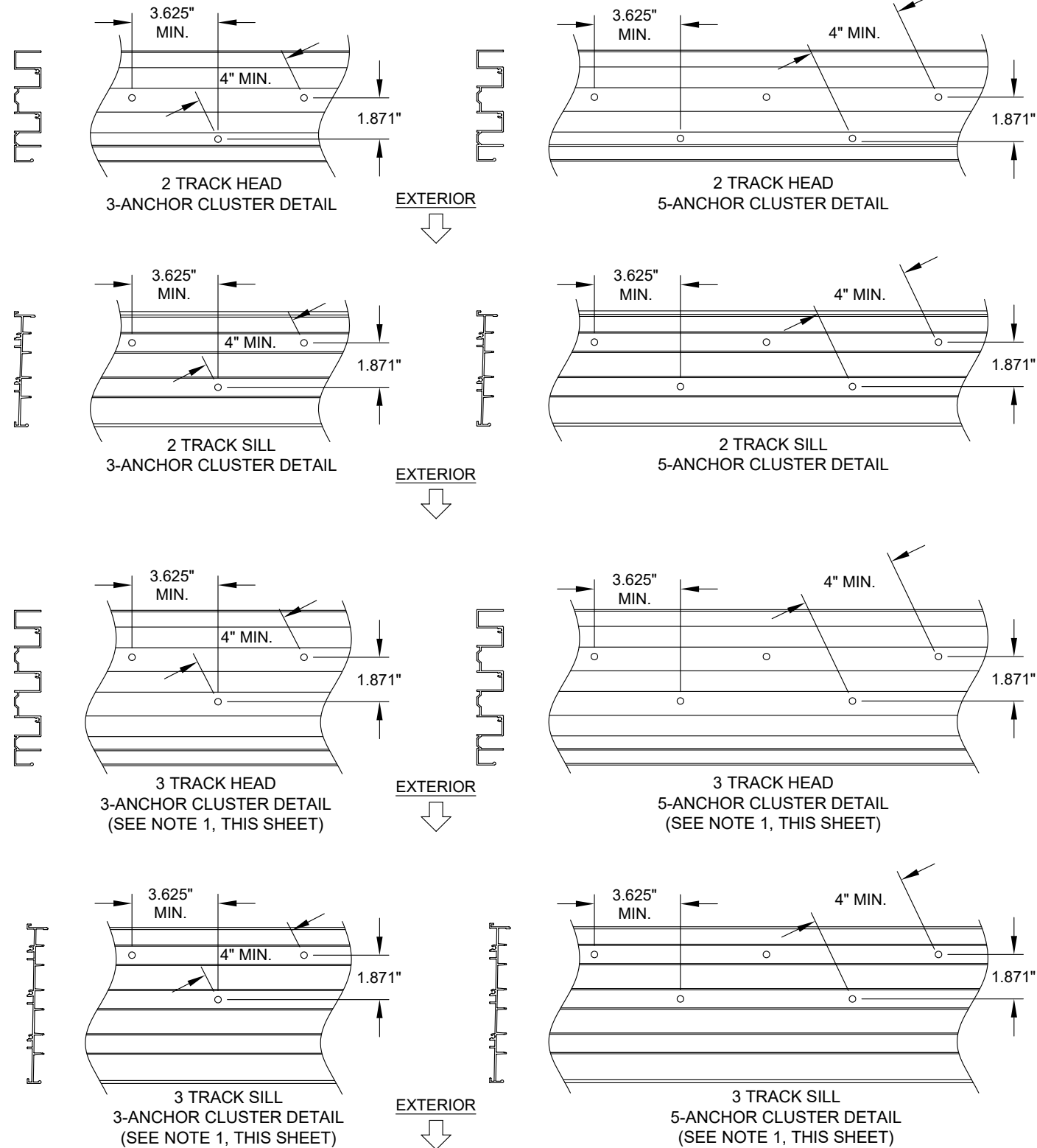
- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 1. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
- 2) SEE ANCHOR NOTES, SHEET 1 FOR ADDITIONAL ANCHOR INFORMATION.
- 3) SEE SHEET 3 & TABLE 1 FOR SPACING REQUIREMENTS.
- 4) MAX. SHIM THICKNESS TO BE 1/4".
- 5) ANTI-LIFT BLOCK PILE REQUIRED AT EACH INTERLOCK AND ASTRAGAL LOCATION TO PREVENT PANEL LIFT AND FALLOUT.

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ALUMINUM SLIDING GLASS WINDOW INSTALLATION & CROSS SECTION SGD4130W-W		Date 07/07/26	Drawn By JENS ROSOWSKI
Series SGD4130W-LM-HVHZ		DWG No. 2 OF 4	Sheet 2 OF 4

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/07/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



NOTE 1) FOR ALL FRAME MEMBERS IN A 3-TRACK CONFIGURATION, THE OUTER ROW OF ANCHORS MAY BE INSTALLED IN EITHER THE EXTERIOR OR INTERIOR TRACK.



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PGT [®] WINDOWS and DOORS		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUMINUM SLIDING GLASS WINDOW		3 OF 4	
INSTALLATION ANCHOR		HOLE LOCATION		SGD4130-W		Title		Series	
No. 58705		07/07/26		STATE OF FLORIDA		A. LYNN MILLER, P.E.		P.E.# 58705	

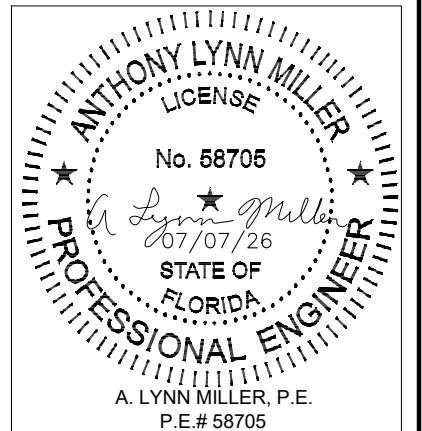
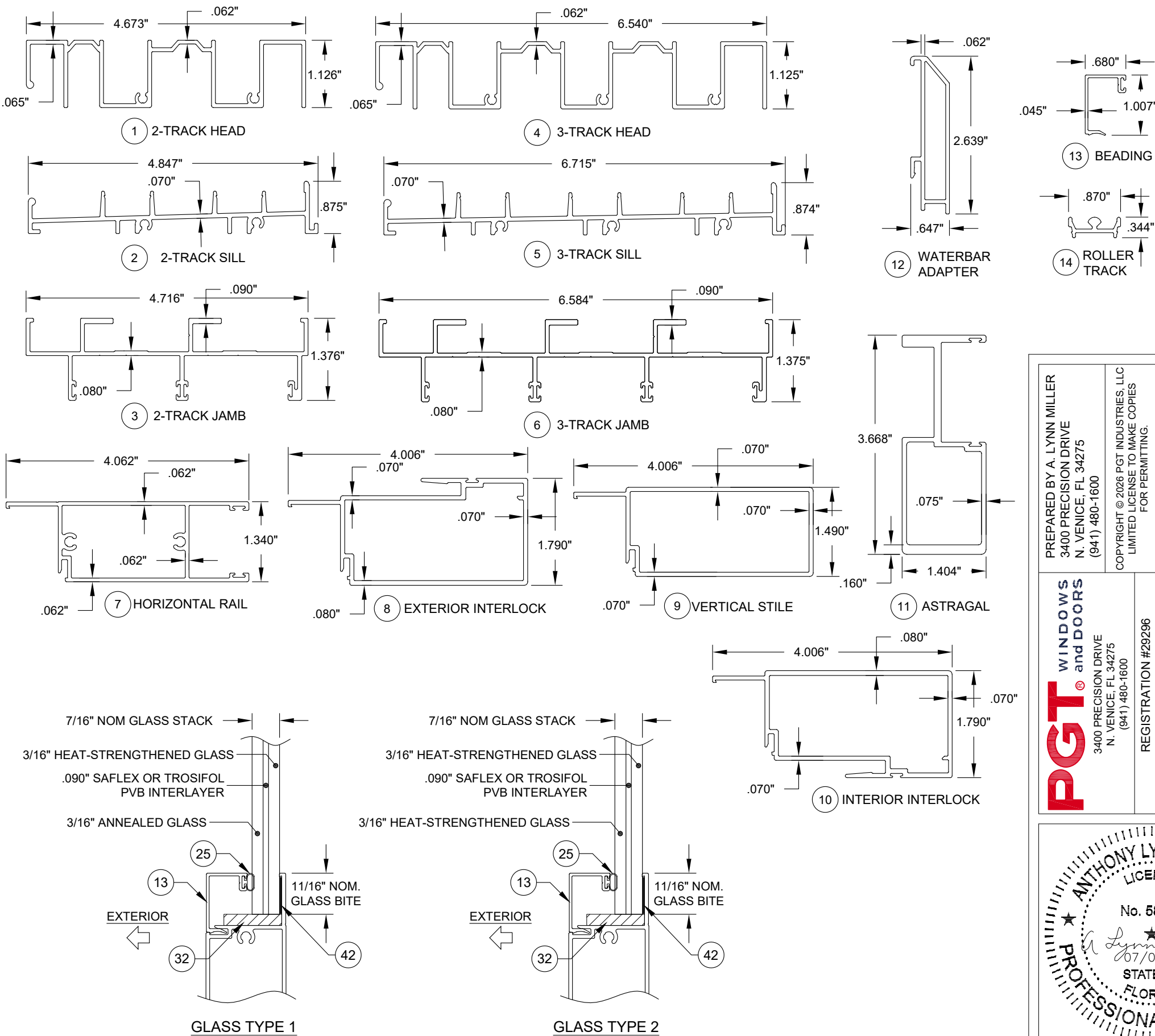


TABLE 2:

Item	Part #	Description	Mat.
1	61140	2-Track Frame Head	6063-T6
2	61142	2-Track Frame Sill	6063-T6
3	61141	2-Track Frame Jamb	6063-T6
4	61143	3-Track Frame Head	6063-T6
5	61145	3-Track Frame Sill	6063-T6
6	61144	3-Track Frame Jamb	6063-T6
7	61147	Vertical Stile	6063-T6
8	61148	Exterior Interlock	6063-T6
9	61150	Horizontal Rail	6063-T6
10	61149	Interior Interlock	6063-T6
11	61151	Astragal	6063-T6
12	61146	Waterbar Adaptor	6063-T6
13	61152	7/16" Laminated Glazing Bead	6063-T6
14	61153	Roller Track	6063-T6
19	710251AG	Interlock Pad @ Sill, 0.95" X 2" X 0.36"	
20	410244N	Fixed Panel Shim	
21	410245N	Roller Shim	
22	710249S	Tandem Rollers	
23	410246W	Anti-Lift Block Pile @ Head & (2) #8 X 1/2" SMS	
24	7171	Fixed Panel Clip	6063-T6
25	6382K	Glazing Bulb 0.187" X 0.200"	PVC
26	710259	Lock Kit	
27	710256X	Keeper Kit	
28	710257	Handle Set Kit	
29	710258	Recessed Handle	
30	64066G	Weatherstrip .187" X .230" Fin Seal	
32	710418K	1/2" X 4" X 1/8" Setting Block	
33	7204	Bumper	PVC
34	7172	7/16" Adjustment Screw Cover	
35	710436	#8 X 1" Pan Phil A (Assembly)	410SS
36	710214	#10-16 X 1-1/4" Pan Phil Tek	410SS
37		#10 X 5/8" Pan Phil AB (Astragal)	410SS
38	710216	#10 X 1" Pan PH TEK 410 SS (Keeper)	410SS
39	78X75FPTX	#8 X 3/4" Flat Phil Tek (O-panel)	410SS
40	710263	#10-32 X 3/4" Flat (Undercut) Ph	410SS
41	710252G	0.810" X 1-3/16" X 0.690"; Top/Bot Rail Plug	
42		Dow 791, 983 or RGS 7700	Sealant
50		Screen Assembly	varies



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