

SERIES SGD4130 IMPACT RESISTANT
SLIDING GLASS DOOR

FLORIDA PRODUCT APPROVAL #33106

DESIGN PRESSURE RATING	WATER PRESSURE RATING	IMPACT RATING
+55/-65 PSF	8.25 PSF	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

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

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) ANCHORAGE: THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS 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.

4) OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE, AS APPLICABLE.

ANCHOR NOTES:

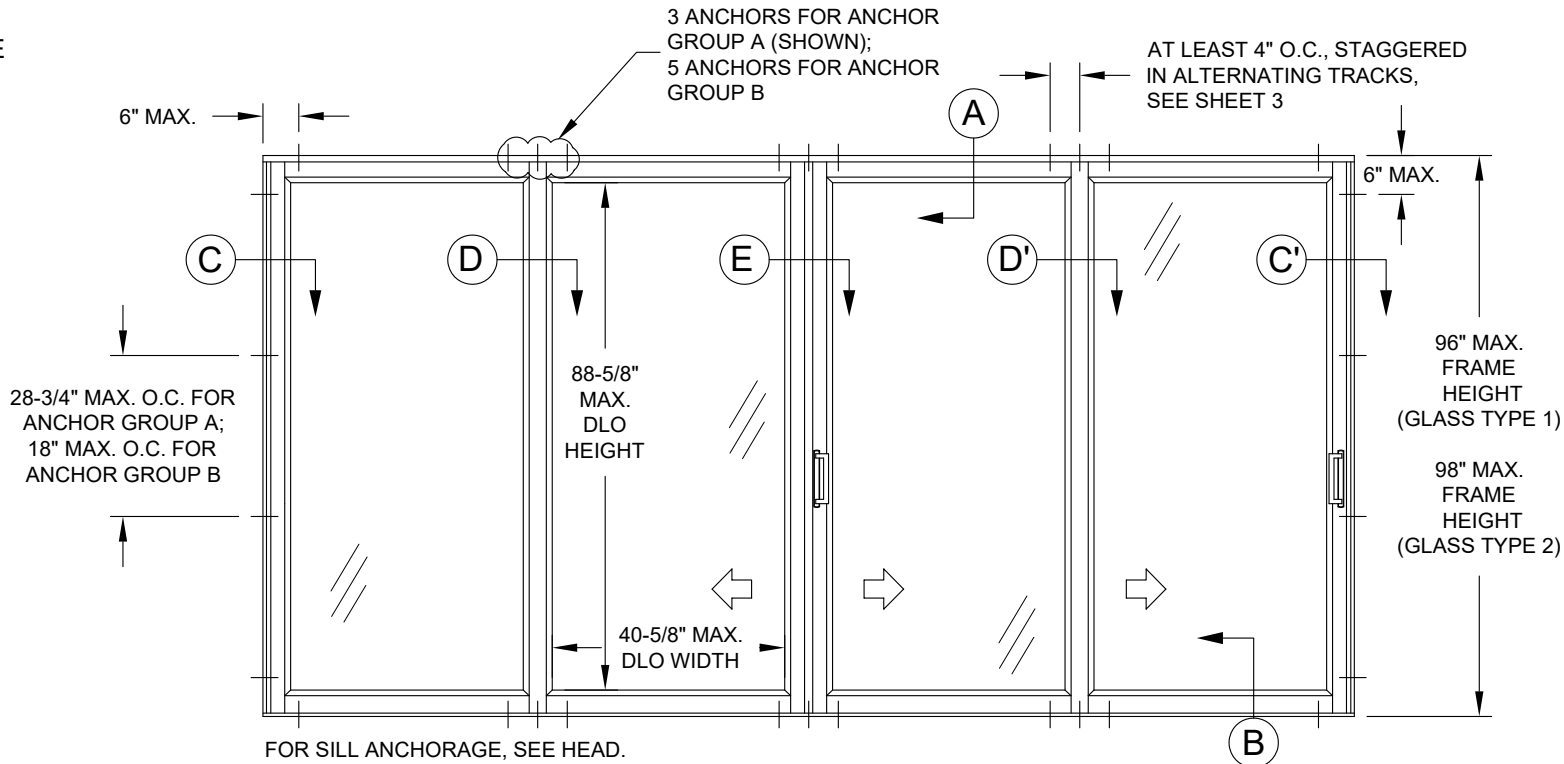
1) SEE TABLE 1 ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE ANCHORAGE REQUIREMENTS.

2) 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.

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 BY OTHERS TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.



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 Screw (G5); Steel, 18-8 SS or 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"

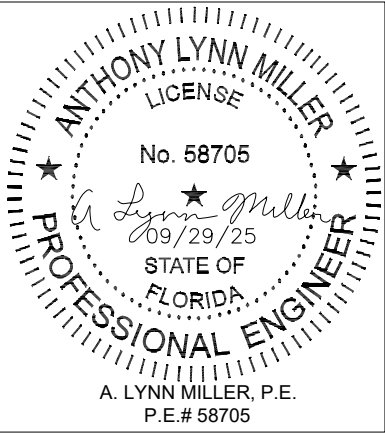
- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUT-FILLED CMU APPLICATIONS.
3) ANY ANCHOR HEAD TYPE IS APPLICABLE.

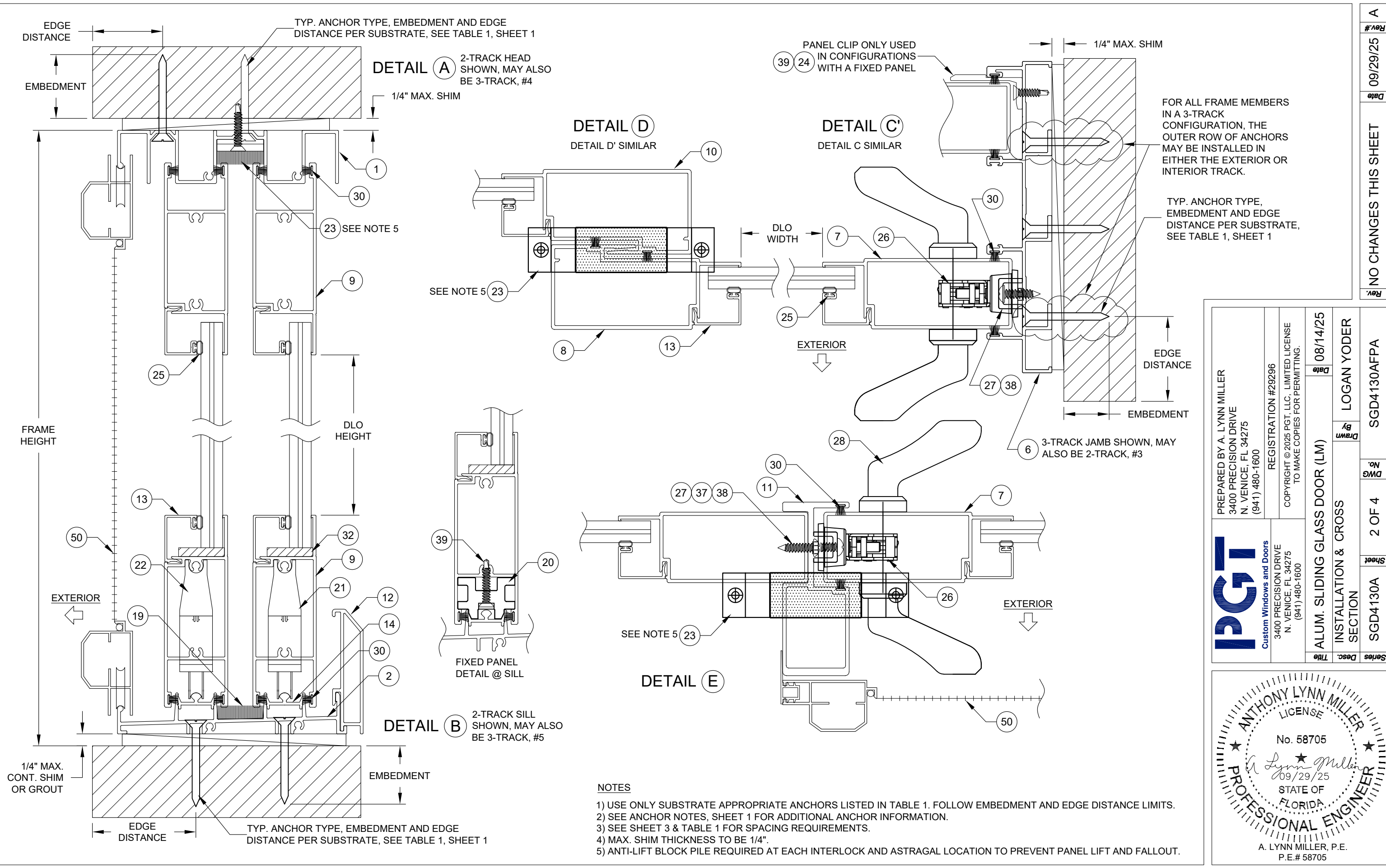
UNLIMITED NUMBER OF PANELS IN ANY 2-TRACK OR 3-TRACK CONFIGURATION USING VERTICAL CONDITIONS SHOWN ON SHEET 2 ARE APPROVED AS LONG AS THE PANEL DLO WIDTH DOES NOT EXCEED THE TESTED DLO WIDTH OF 40-5/8" AND THE TESTED FRAME HEIGHT OF 98" IS NOT EXCEEDED.

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

Rev.	Date	NO CHANGES THIS SHEET
A	09/29/25	-LMY

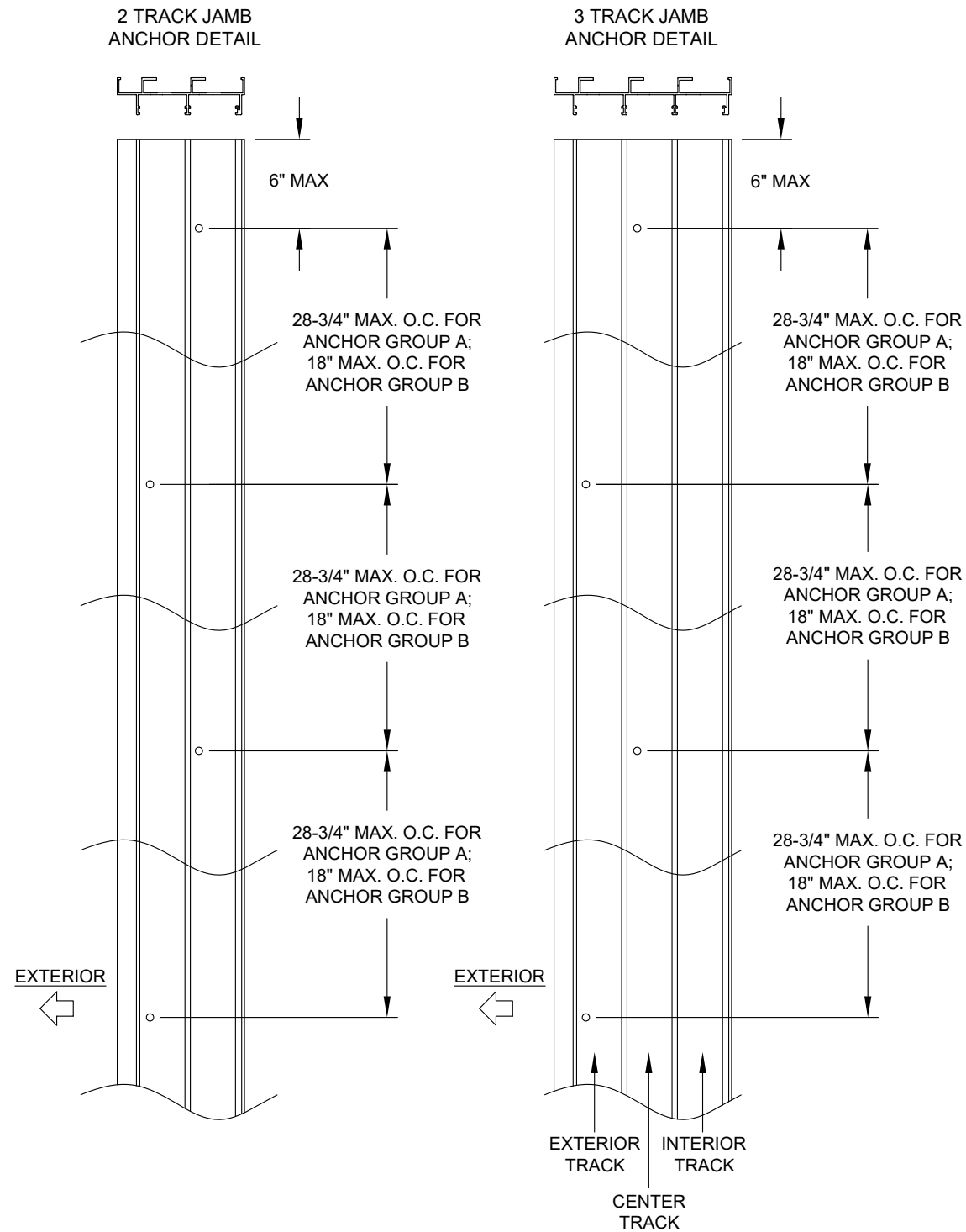
PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296 COPYRIGHT © 2025 PGT, LLC, LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	08/14/25	LOGAN YODER	SGD4130AFPA
PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	ALUM. SLIDING GLASS DOOR (LM)	ELEVATION & GENERAL NOTES	1 OF 4	SGD4130A



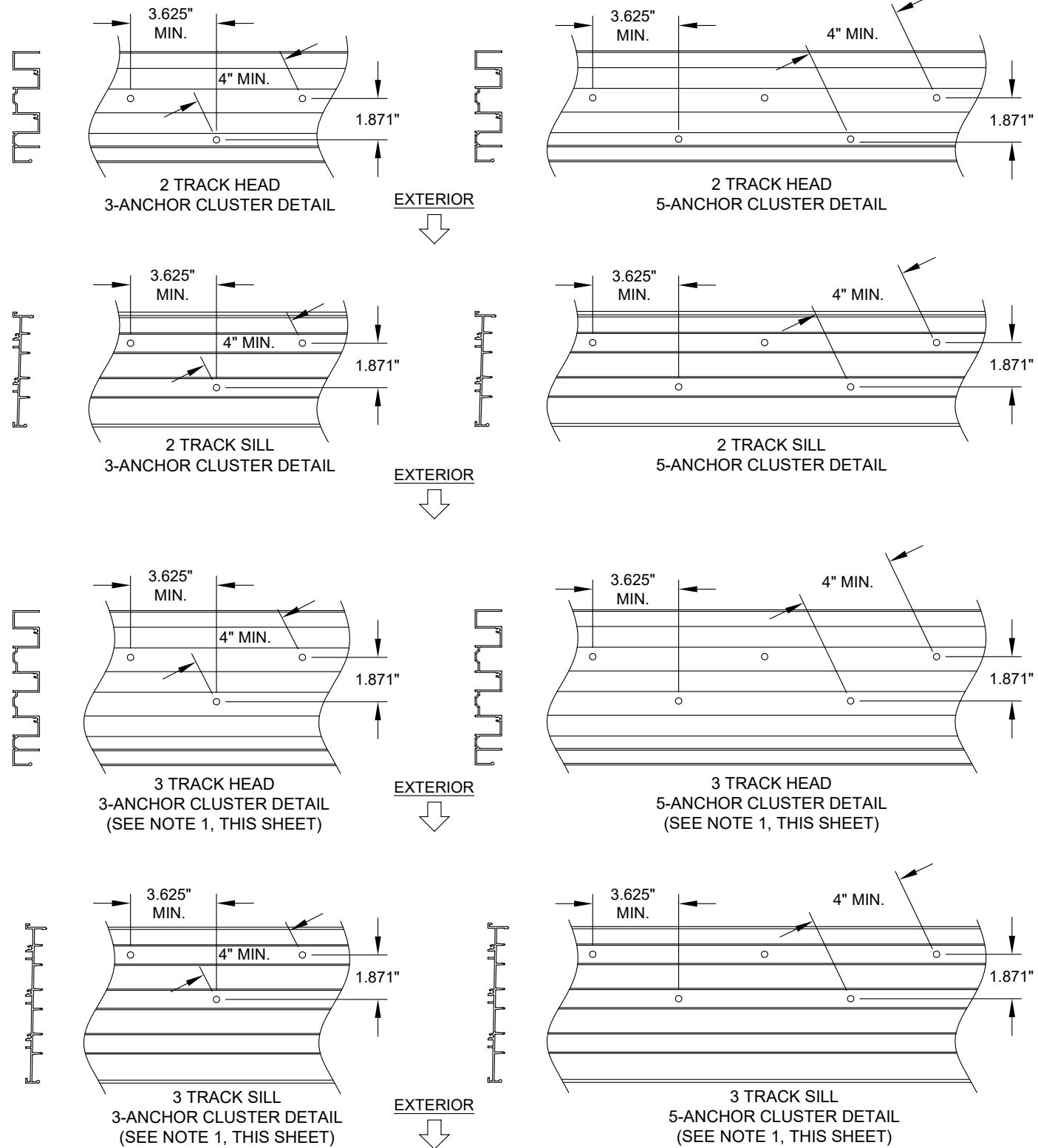


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INSTALLATION & CROSS SECTION		SGD4130A		2 OF 4 DWG	
SGD4130AFPA		NO CHANGES THIS SHEET		09/29/25 Rev.	

ANTHONY LYNN MILLER
LICENSE
No. 58705
09/29/25
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.

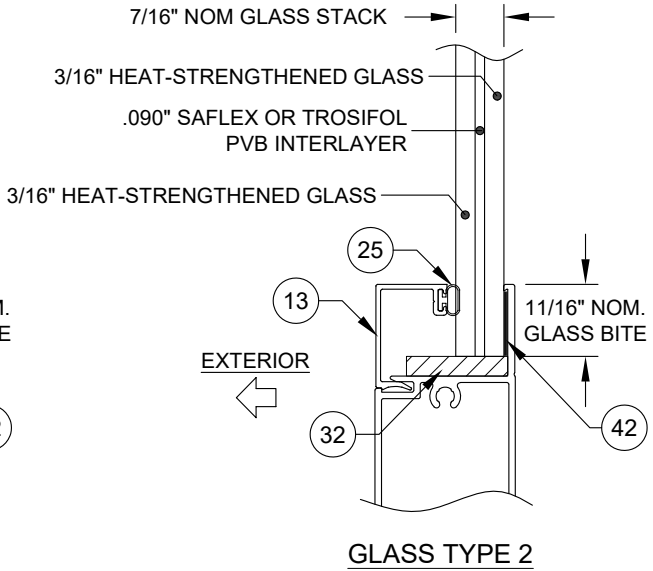
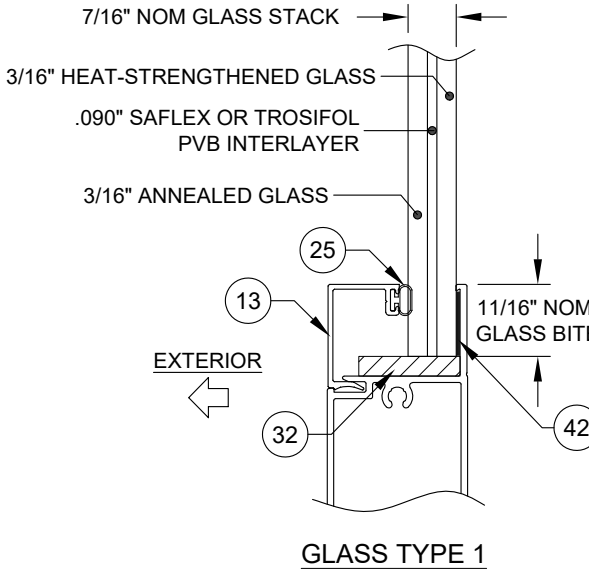
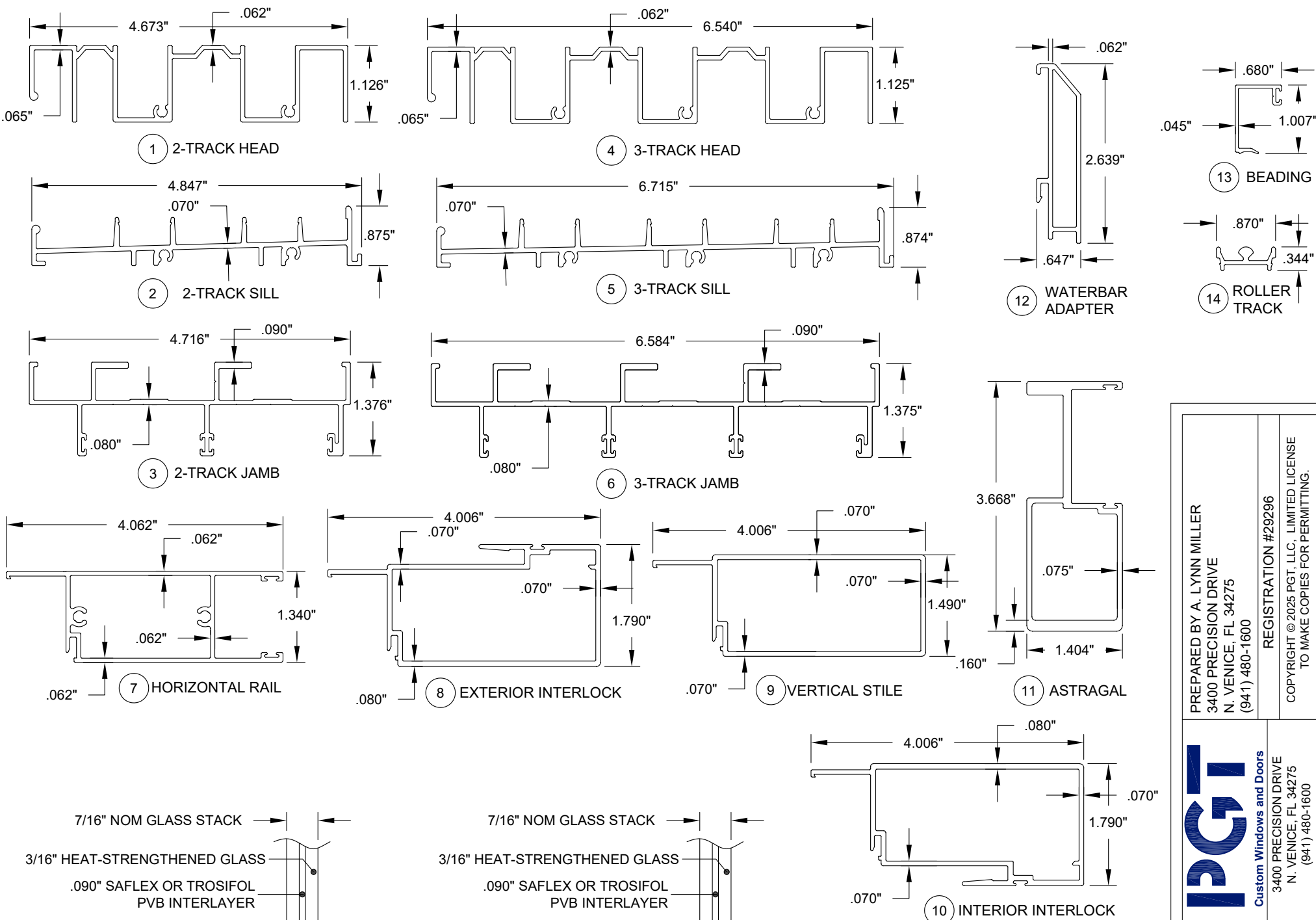


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ALUM. SLIDING GLASS DOOR (LM)		LOGAN YODER	
INSTALLATION ANCHOR HOLE LOCATION		DWG 3 OF 4	
SGD4130A		SGD4130AFPA	

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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	61150	Horizontal Stile	6063-T6
8	61148	Exterior Interlock	6063-T6
9	61147	Vertical 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, 0.55" X 2" X 0.36"	
20	410244N	Fixed Panel Shim	
21	410245N	Roller Shim	
22	710249S	Tandem Rollers	
23	410246	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	710102G	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	710413	#10 X 5/8" Pan Phil AB (Astragal)	410SS
38	710216	#10 X 1" Pan PH TEK 410 SS (Keeper)	410SS
39	710413	#8 X 3/4" Flat Phil Tek (O-panel)	410SS
40	710263	#10-32 X 3/4" Flat (Undercut) Ph	410SS
41	710252	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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3400 PRECISION DRIVE
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ALUM. SLIDING GLASS DOOR (LM)
GLAZING INFORMATION,
EXTRUSION AND BOM

08/14/25
Date

LOGAN YODER
By

SGD4130AFPA
DWG

4 OF 4
Sheet

SGD4130A
Series

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