

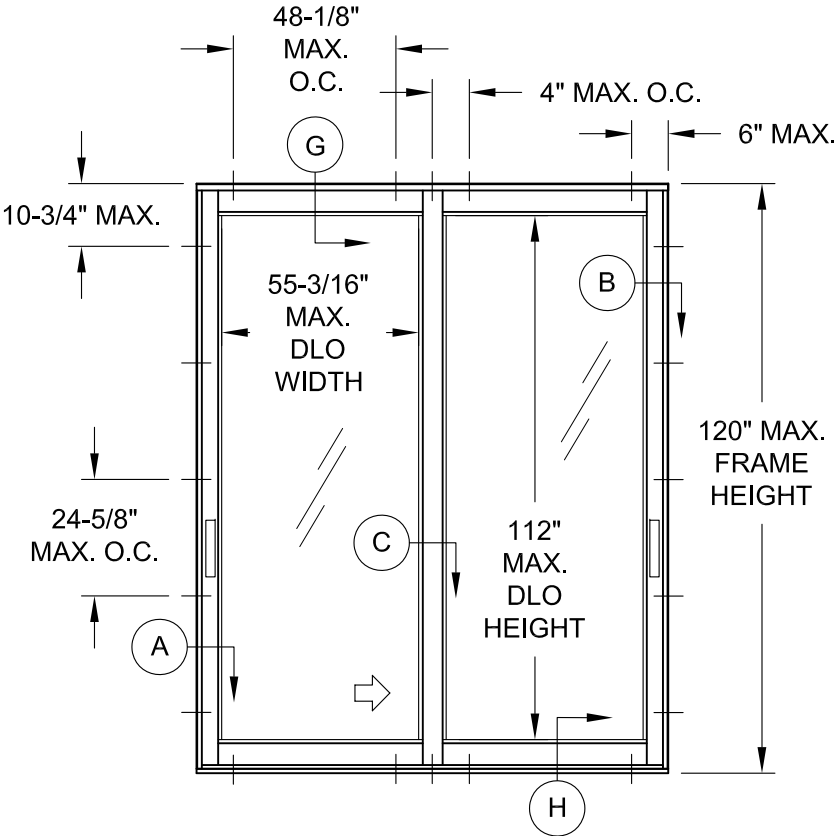
SERIES 7650, IMPACT RESISTANT, THERMALLY-BROKEN SLIDING GLASS DOOR
INCLUDING INT./EXT. POCKETS & INSIDE/OUTSIDE 90° CORNERS

GENERAL NOTES:

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, NOT INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
- 3) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 4) ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- 5) OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) REFERENCES: DEWALT ULTRACON+, ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM, ALUMINUM DESIGN MANUAL.
- 7) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE CURRENT FLORIDA BUILDING CODE, AS APPLICABLE.

ANCHOR NOTES:

- 1) FOR CONCRETE/CMU SUBSTRATE APPLICATIONS, USE ONLY APPROVED ANCHORS. SEE TABLE 1 FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- 2) FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE 1.
- 3) WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- 4) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 5) 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.



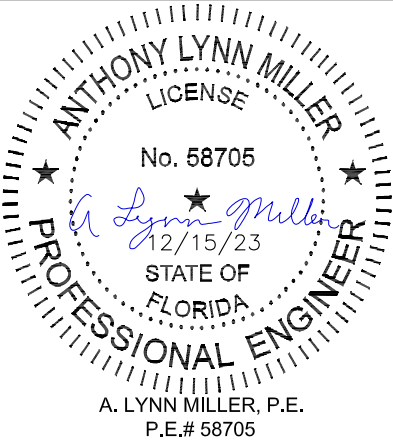
2P-2T XO ANCHOR LOCATIONS, OX SIMILAR

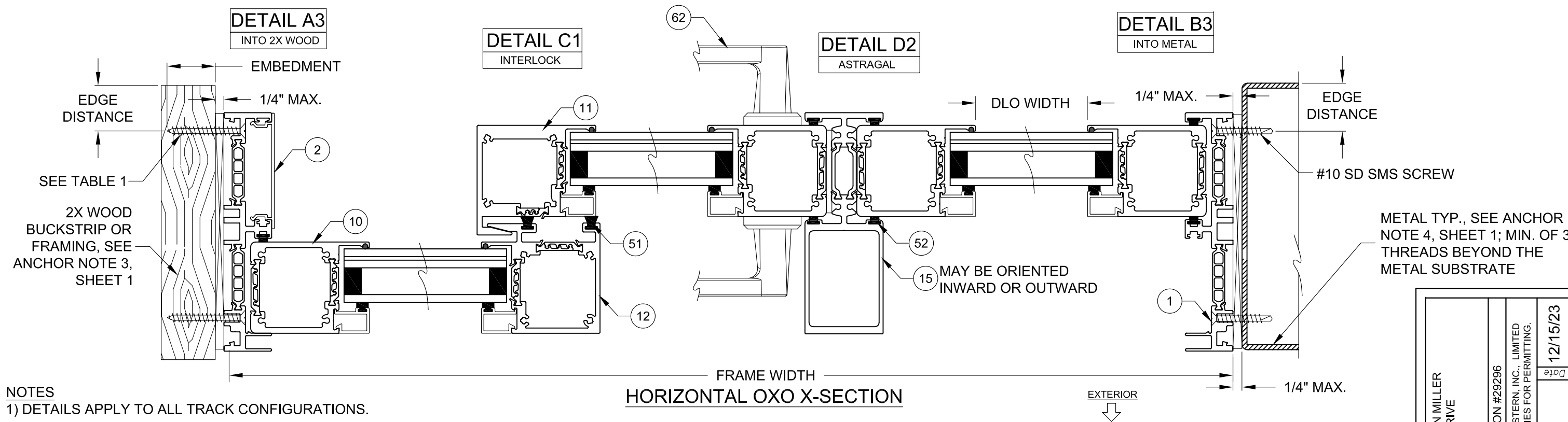
SEE SHEET 2 & 3 FOR ADDITIONAL
CONFIGURATION EXAMPLES, ANCHOR
LAYOUTS AND NOTES.

DESIGN PRESSURE RATING
+50.0 / -50.0 PSF

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

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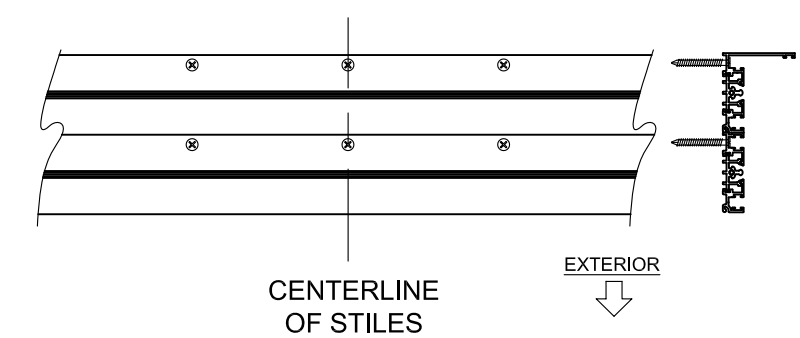


- NOTES
- 1) DETAILS APPLY TO ALL TRACK CONFIGURATIONS.
 - 2) ANY INSTALLATION METHOD MAY BE USED ON ANY FRAME MEMBER.
 - 3) CONFIGURATION MAY BE MIRRORED FROM IMAGE SHOWN.

TABLE 2: Min. Total Quantity of Anchors Required @ Head/Sill Cluster & Jamb/Frame Corners Across All Tracks												
			Door Frame Height & DLO									
			80" (72" DLO)		84" (76" DLO)		96" (88" DLO)		108" (100" DLO)		120" (112" DLO)	
			@ Head & Sill Cluster	@ Jamb & Corners	@ Head & Sill Cluster	@ Jamb & Corners	@ Head & Sill Cluster	@ Jamb & Corners	@ Head & Sill Cluster	@ Jamb & Corners	@ Head & Sill Cluster	@ Jamb & Corners
Nom. Panel Width & DLO	24"	19-3/16" DLO	4	4	3	4	4	6	4	6	4	6
	30"	25-3/16" DLO	4	6	4	6	4	6	6	8	6	8
	36"	31-3/16" DLO	4	6	6	6	6	8	6	8	6	10
	42"	37-3/16" DLO	6	8	6	8	6	8	8	10	8	10
	48"	43-3/16" DLO	6	8	6	8	8	10	8	10	8	12
	54"	49-3/16" DLO	6	10	8	10	8	10	8	12	10	14
	60"	55-3/16" DLO	8	10	8	10	8	12	10	14	10	14

1) TABLE 2 SHOWS THE MINIMUM QUANTITY REQUIRED TO RESIST THE RATED WINDLOAD.

EXAMPLE: A 42" X 96" REQUIRES 6 ANCHORS AT THE HEAD & SILL CLUSTER AS SHOWN BELOW.



PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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western
window systems

2200 E RIVERVIEW DR
PHOENIX, AZ 85034
(877) 268-1300

12/15/23

TB SLIDING GLASS DOOR (LM)

By
JENS ROSOWSKI

No.
FPA-7650-1

3 OF 6

Sheet
SGD-7650

Rev.

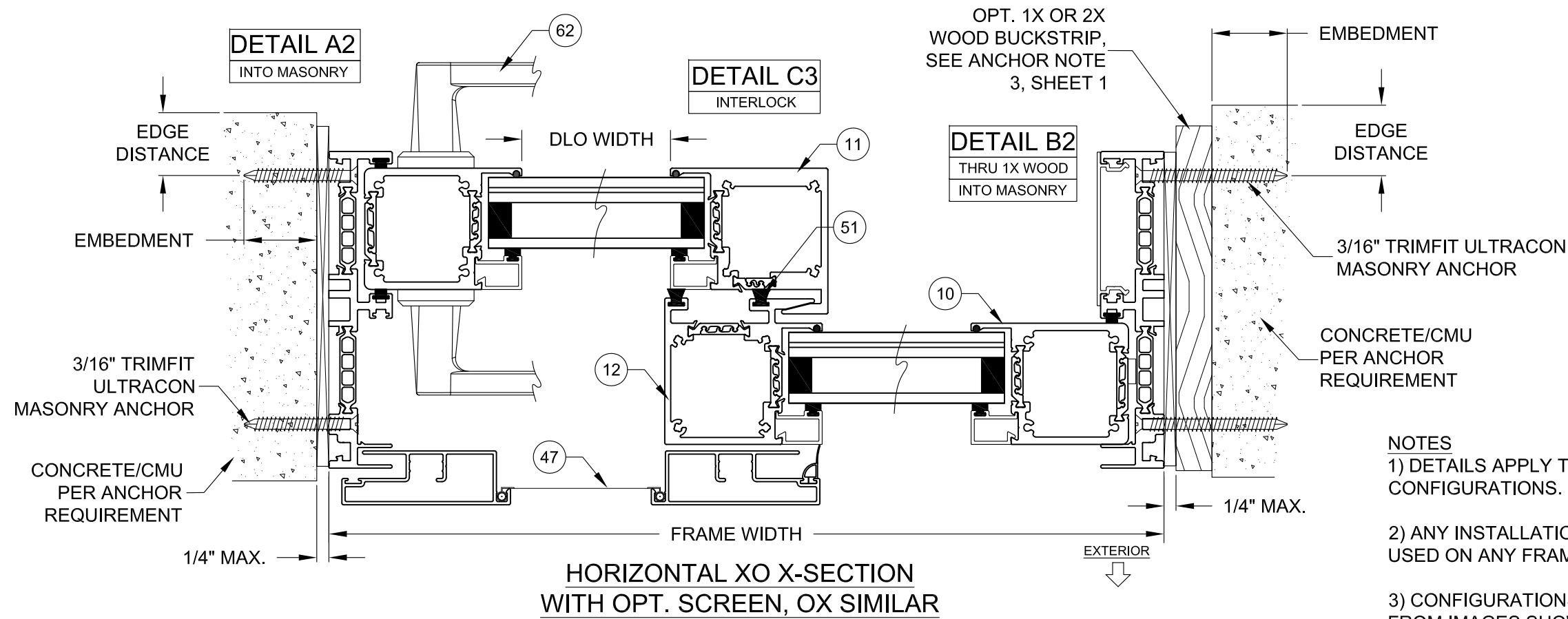
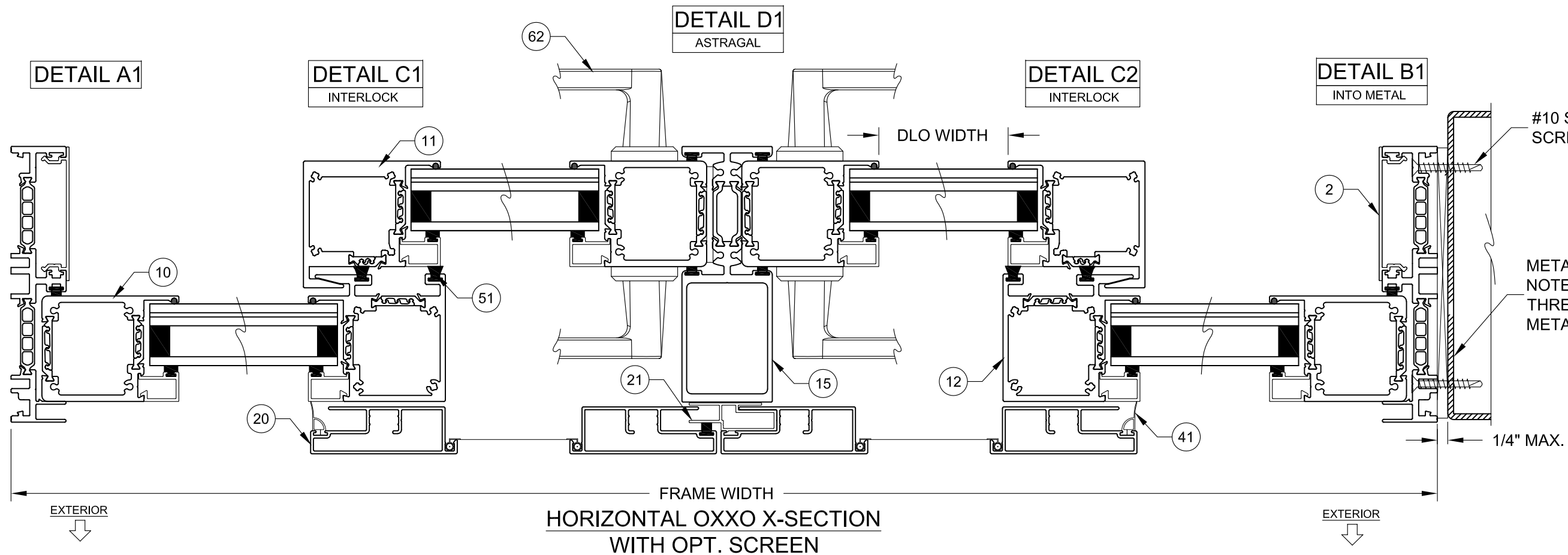
Date

Series
Title

Desc.

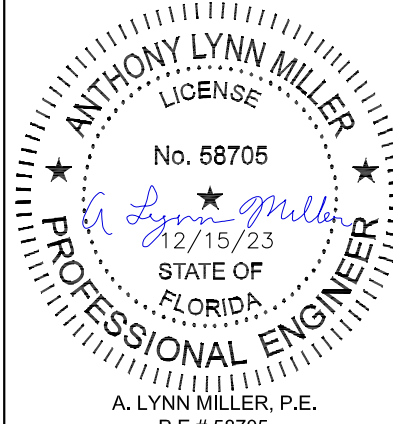
Inst.

ANTHONY LYNN MILLER
LICENSE
No. 58705
12/15/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



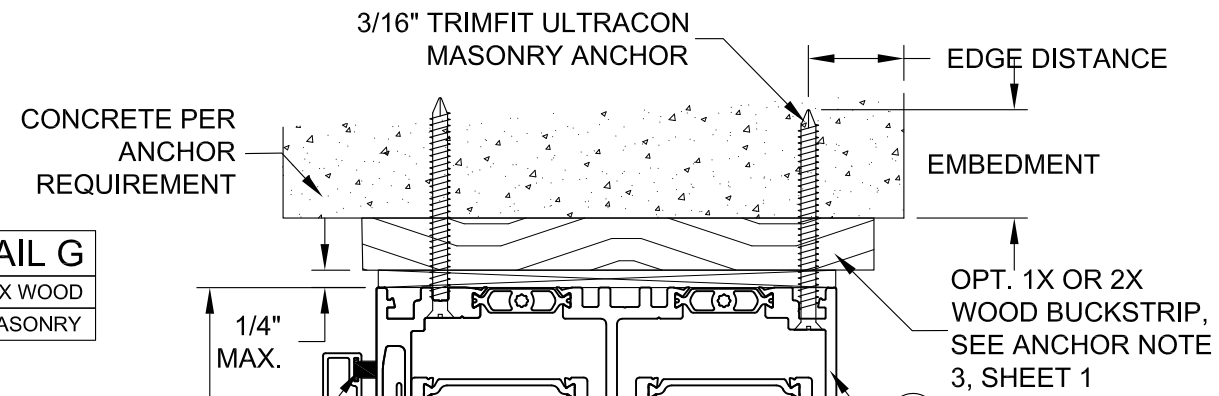
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- 3) CONFIGURATIONS MAY BE MIRRORED FROM IMAGES SHOWN.

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	TB SLIDING GLASS DOOR (LM)		JENS ROSOWSKI	FPA-7650-1
	INSTALLATION 2	4 OF 6	No.	Sheet
SGD-7650		Series Desc. Title		



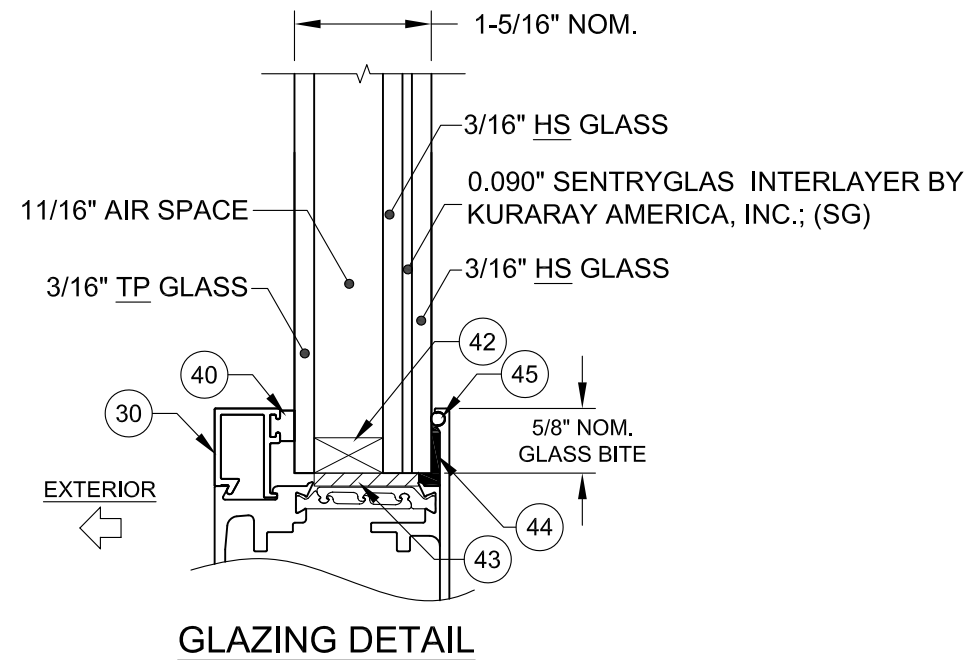
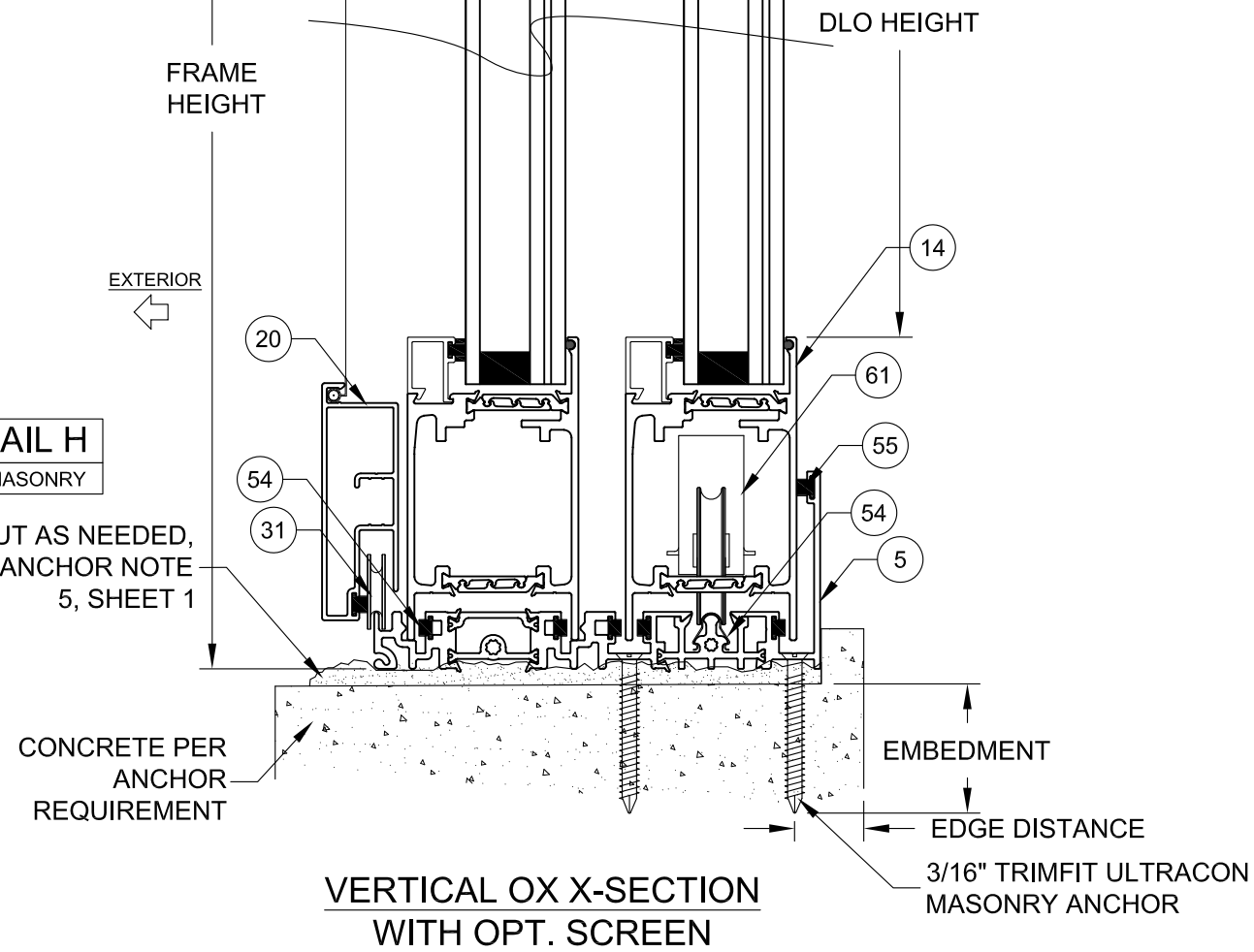
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DETAIL G
THRU 1X WOOD
INTO MASONRY



DETAIL H
INTO MASONRY

GROUT AS NEEDED,
SEE ANCHOR NOTE
5, SHEET 1



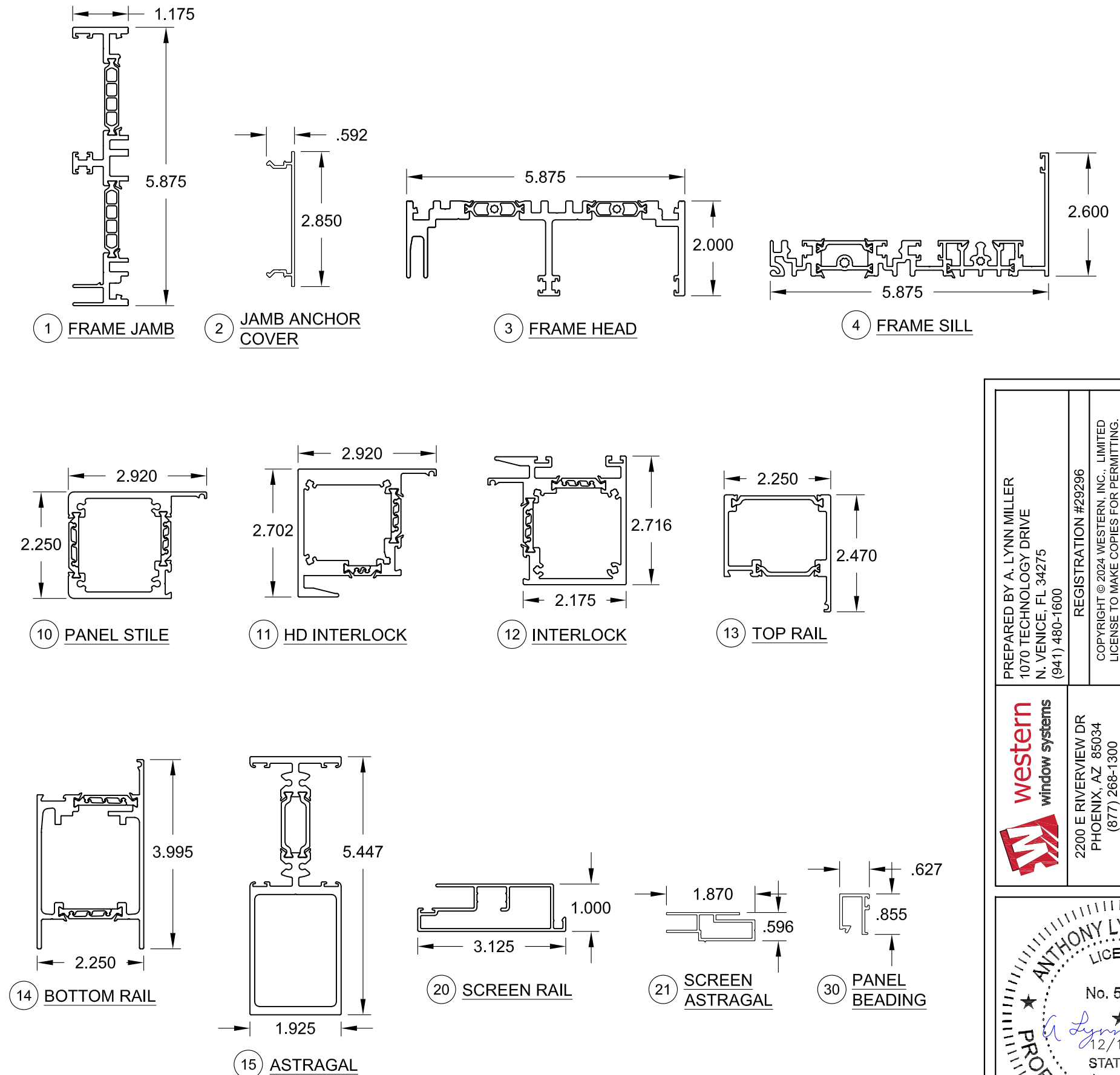
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INSTALLATION 3		5 OF 6	DWG	FPA-7650-1
SGD-7650		Sheet	JENS ROSOWSKI	
Series		Desc. Title		

ANTHONY LYNN MILLER
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A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 3:

Item #	Description	Material
1	Frame Jamb	TB 6063 T5 Alum.
2	Jamb Anchor Cover	6063 T5 Alum.
3	Frame Head	TB 6063 T5 Alum.
4	Frame Sill	TB 6063 T5 Alum.
10	Panel Stile	TB 6063 T5 Alum.
11	HD Interlock	TB 6063 T5 Alum.
12	Interlock	TB 6063 T5 Alum.
13	Top Rail	TB 6063 T5 Alum.
14	Bottom Rail	TB 6063 T5 Alum.
15	Astragal	TB 6063 T5 Alum.
20	Screen Rail	6063 T5 Alum.
21	Screen Astragal Adapter	6063 T5 Alum.
30	Panel Beading	6063 T5 Alum.
31	Screen Roller	6063 T5 Alum.
40	Panel Beading Gasket	Vinyl
41	Screen Flap Gasket	Vinyl
42	IG Spacer	Varies
43	Setting Block	EPDM
44	Silicone Backbedding	Dow-791, 983 or 995
45	Glazing Leg Chord	EPDM
46	Screen Spline	Vinyl
47	Screen Cloth	Fiberglass
50	Jamb Woolpile	
51	Interlock Woolpile	
52	Astragal Woolpile	
53	Screen Stile Woolpile	
54	Track Woolpile	
55	Sill Riser Woolpile	
60	Track Cap	Stainless Steel
61	Panel Roller	Stainless Steel
62	Handle/Lock	Varies
63	#8 X 3/4" PH Frame Assembly Screw	Stainless Steel
64	5/16" Rod & Nut Panel Assembly Screw	Steel
65	Interlock Screw	Stainless Steel



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BOM & EXTRUSIONS		6 OF 6		FPA-7650-1	
SGD-7650		No.		Rev.	
Series		Desc.		Title	