



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #

Application Type

Code Version

Application Status

FL40525-R5

Revision

2023

Approved

Comments

Archived



Product Manufacturer

Address/Phone/Email

E.S. Windows, Inc.

10653 NE Quaybridge Ct.

Miami, FL 33138

(305) 638-5151

ssabagh@energiasolarsa.com

Authorized Signature

Yiping Wang

mcyengineering@outlook.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Exterior Doors

Sliding Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Yiping Wang

Florida License

PE-55983

Quality Assurance Entity

Keystone Certifications, Inc.

Quality Assurance Contract Expiration Date

03/24/2035

Validated By

Xiaojun Gu

☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL40525_R5_COI_Certificate of Independence ES 2020T FBC2023-SS.pdf](#)

Referenced Standard and Year (of Standard)

Standard

Year

ANSI Z97.1

2014

ASTM E283

2012

ASTM E331

2016

ASTM F842

2017

TAS 201

1994

TAS 202

1994

TAS 203

1994

Equivalence of Product Standards

Certified By

Product Approval Method

Method 1 Option D

Date Submitted

08/29/2024

Date Validated

12/30/2024

Date Pending FBC Approval

01/01/2025

Date Approved

02/11/2025

Summary of Products

FL #	Model, Number or Name	Description
40525.1	ES-2020T SGD - L.M.I.	ES-2020T SGD - L.M.I.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +115/-115 Other: other design pressure refer to the installation drawing.		Installation Instructions FL40525_R5_II_ES-SGD2020T -LMI FA40525.1 AD21-56 REV12192024-ss.pdf Verified By: Yiping Wang PE #55983 Created by Independent Third Party: Yes Evaluation Reports FL40525_R5_AE_Evaluation Report FBC 2023 2020T LMI REV12.19.2024-ss.pdf Created by Independent Third Party: Yes
40525.2	ES-2020T SGD - N.I.	ES-2020T SGD - Non impact
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +105/-105 Other:		Installation Instructions FL40525_R5_II_ES-SGD2020T -NI FA40525 REV.10.25.2023-SS.pdf Verified By: Yiping Wang PE #55983 Created by Independent Third Party: Yes Evaluation Reports FL40525_R5_AE_Evaluation Report FBC 2023 2020T NI-SS.pdf Created by Independent Third Party: Yes

Back

Next

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:





MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL. 33027
P: 305 271-0117
F: 305 588-5224

September 18th, 2023

Product Approval Administrator
Codes & Standards Section
Florida Department of Business and Professional Regulation
2601 Blair Stone Road
Tallahassee, FL 32399

Ref: Series SGD 2020T sliding glass door large and small missile impact
Series SGD 2020T sliding glass door non-impact
ES WINDOWS, INC.

Certificate of Independence

Dear Sirs,

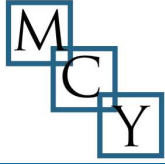
As the structural design engineer retained by ES Windows, INC. on the product referenced above, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the above referenced product, nor do I have or will have any financial interest with any other entity involved in the approval process of the product and also that my company is not owned, operated, or controlled by ES Windows, INC. in any way.

Sincerely,

Yiping Wang, P.E.
President



September 18th, 2023



PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> E.S. WINDOWS, Inc. 10653 NE Quaybridge Ct. Miami, FL 33138	<u>Product Name/Model & Description:</u> Series SGD 2020T sliding glass door large and small missile impact
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Scope: This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

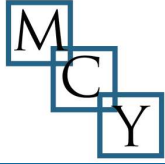
Product Description: Product Approval **Drawing #AD21-56** prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High-Velocity Hurricane Zone)
- Impact Resistance: **Large Missile Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at the related maximum allowable size(s).
 - Other load limitations applicable to the product, if any.
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



December 19th, 2024



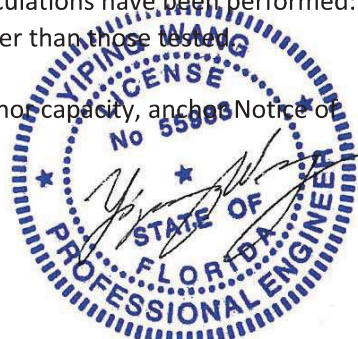
Test Reports:

Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Fenestration Testing Laboratory FL33166	FTL-12888 <i>signed and sealed by Idalmis Ortega, PE</i>	12/20/2021	TAS 201-94 (large and small missile impact) TAS 202-94 (uniform static test) TAS 203-94 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM F842 (Forced Entry Test)
Blackwater Testing, Inc West Palm Beach, FL	BT-ESW-22-026 <i>signed and sealed by MICHAEL D CALDWELL, P.E.</i>	10/09/2023	TAS 201 (small missile impact test) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration) ASTM E331 (water infiltration) ASTM F842 (forced entry)
QAI LABORATORIES 8148 NW 74 Avenue	MED-1170a <i>signed and sealed by Idalmis Ortega, PE</i>	09/25/2024	TAS 201-94 (large missile impact) TAS 202-94 (uniform static test) TAS 203-94 (cyclic wind pressure loading)
Blackwater Testing, Inc West Palm Beach, FL	BT-ESW-23-045 <i>signed and sealed by MICHAEL D CALDWELL, P.E.</i>	09/25/2024	TAS 201-94 (large missile impact) TAS 202-94 (uniform static test) TAS 203-94 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM F842 (Forced Entry Test)
Blackwater Testing, Inc West Palm Beach, FL	BT-ESW-23-056 <i>signed and sealed by MICHAEL D CALDWELL, P.E.</i>	09/25/2024	TAS 201-94 (large missile impact) TAS 202-94 (uniform static test) TAS 203-94 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM F842 (Forced Entry Test) ANSI Z97.1 (Impact test)

Engineering Analysis: The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor type, and Notice of Acceptance by Miami Dade County.



December 19th, 2024

ES WINDOWS, INC.
SERIES SGD 2020T SLIDING GLASS DOOR
LARGE AND SMALL MISSILE IMPACT

DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT.
IMPACT SHUTTERS ARE NOT REQUIRED.

SERIES SGD 2020T SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION SEALED WITH SILICONE SEALANT.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.

STEP 2 SEE SHEET E1 TO E3 FOR TYPICAL ELEVATIONS FOR SGD WITH 4, 3 AND 2 TRACKS. SEE SHEET E4 FOR SGD WITH 90 DEGREE CORNER. SEE APPROVED CONFIGURATIONS ON SHEETS E5 THROUGH E10.

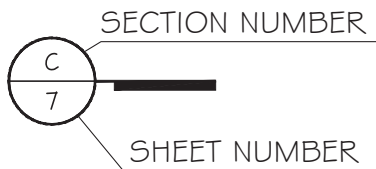
STEP 3 SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS. SEE CHART ON SHEET G1 FOR APPROVED DESIGN LOADS BASED ON SGD SIZES.

STEP 4 FOR TYPICAL AND POCKET JAMB ANCHOR, SEE OPTIONS AND SPACING ON SHEETS J1 AND J2. HEAD & SILL ANCHOR OPTIONS SEE SHEET A1 AND LAYOUT ON SHEET E1 TO E4. ANCHOR LOAD CAPACITIES SEE CHART ON SHEET A2.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



FL #40525.1

LIMITATIONS OF USE			
A-	THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.		
B-	CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.		
C-	THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.		
D-	SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.		
E-	THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.		

YANYING WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 55983
December 19th, 2024

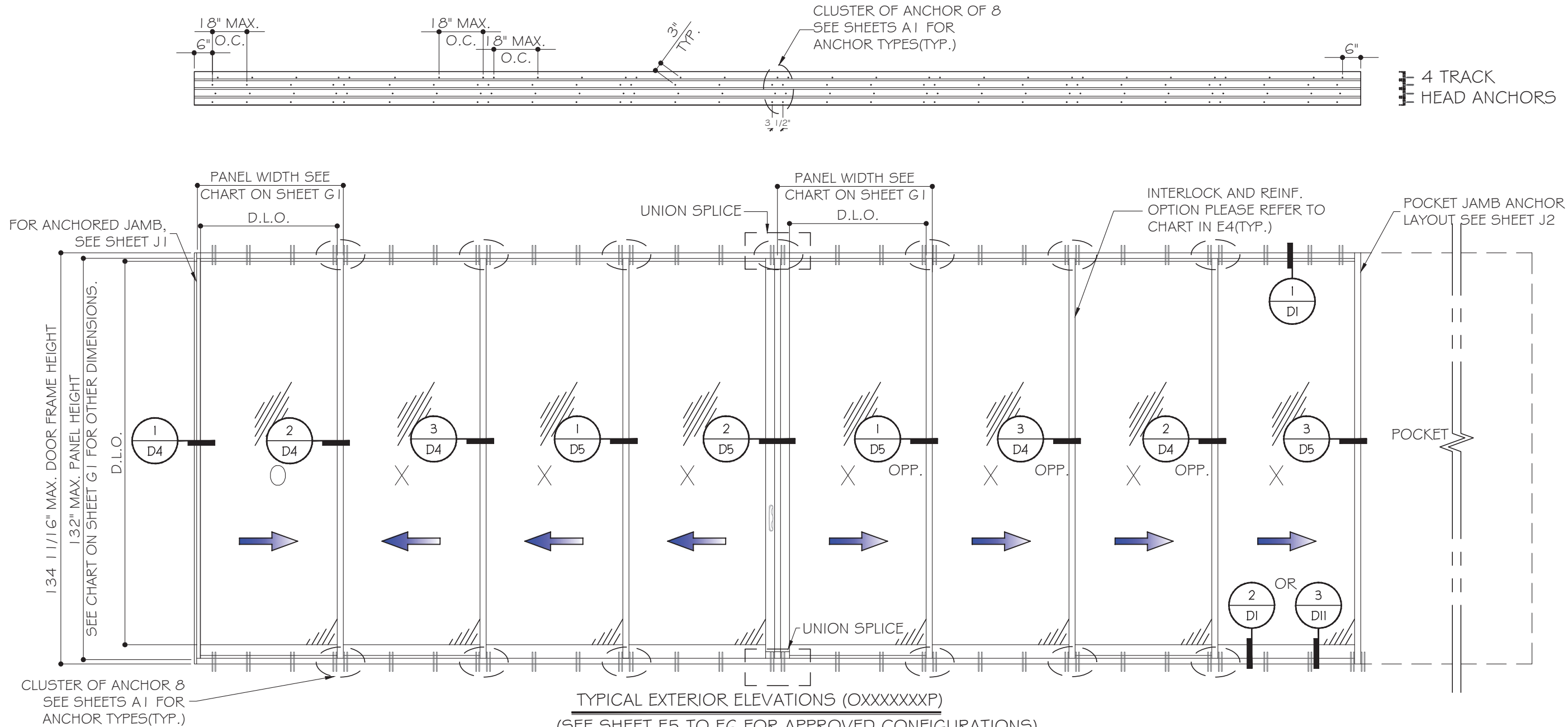
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COVER	
Sheet No. 01 OF 35	

ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

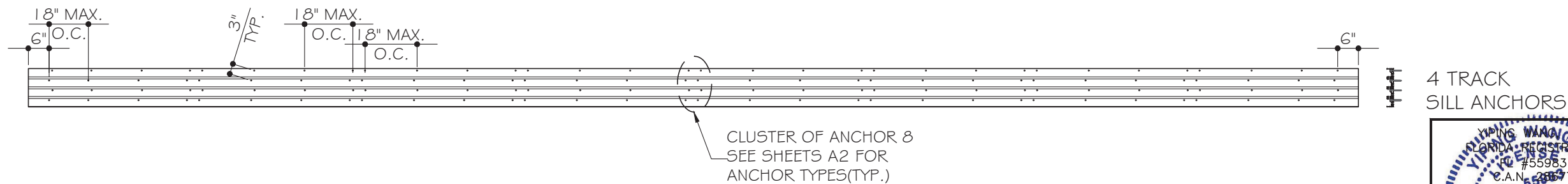
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES WINDOWS, INC.

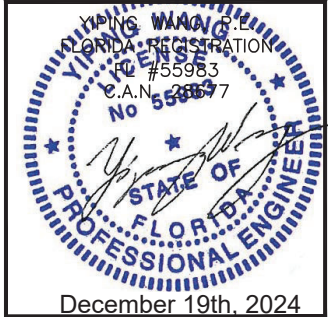
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775



(SEE SHEET E5 TO E6 FOR APPROVED CONFIGURATIONS)
(SEE CHART ON SHEET G1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)
(SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2 1 1/16"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

Drawn By

James

Date

08.29.2024

Rev. No.

R3

Revision

Description

Drawn Date

08.29.2024

Scale

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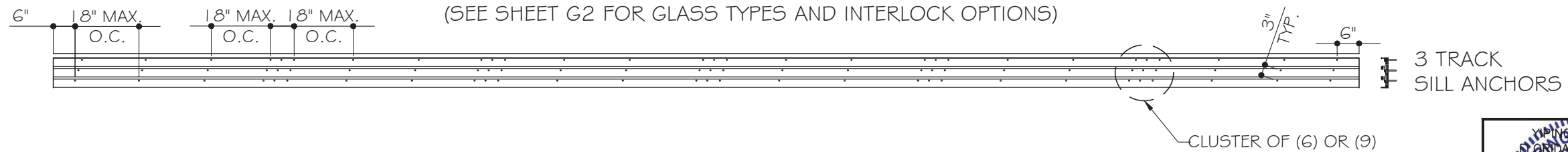
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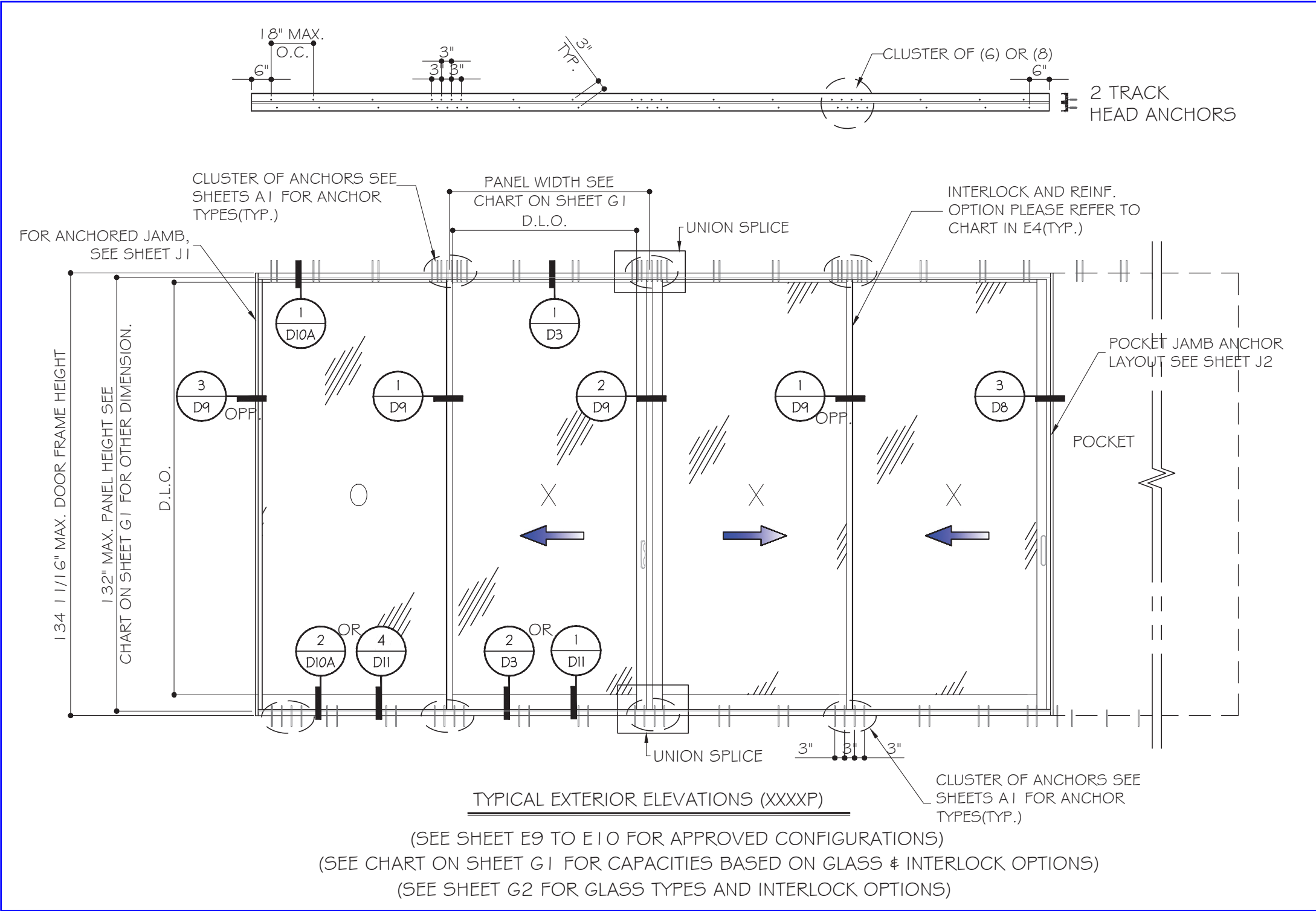
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E1

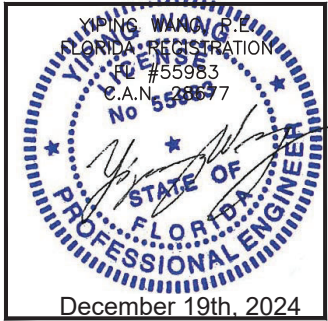
December 19th, 2024



YOUNG MAN, P.E.
FLORIDA REGISTRATION
FC #55983
C.A.N. 28577
No 55557
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
December 19th, 2024



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
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D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"

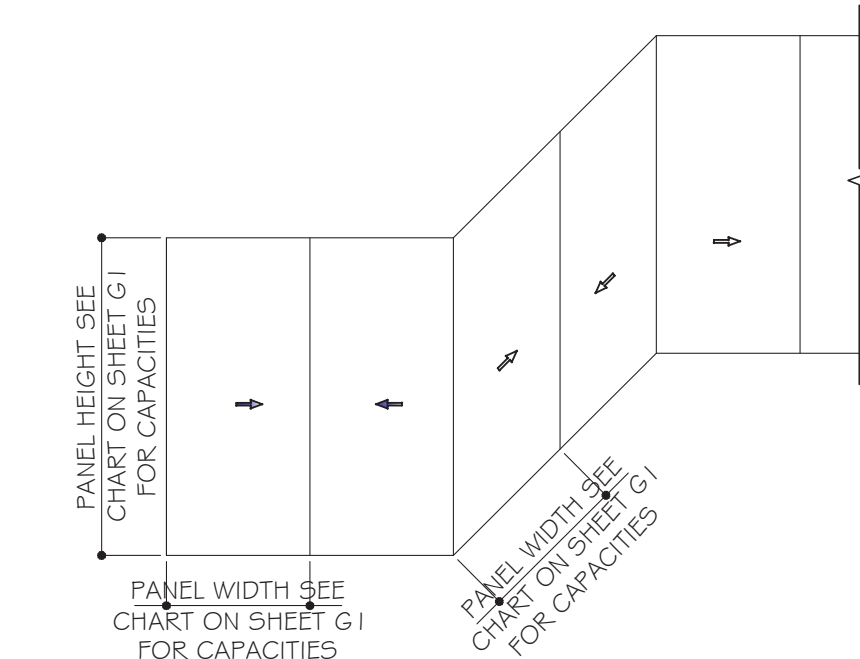
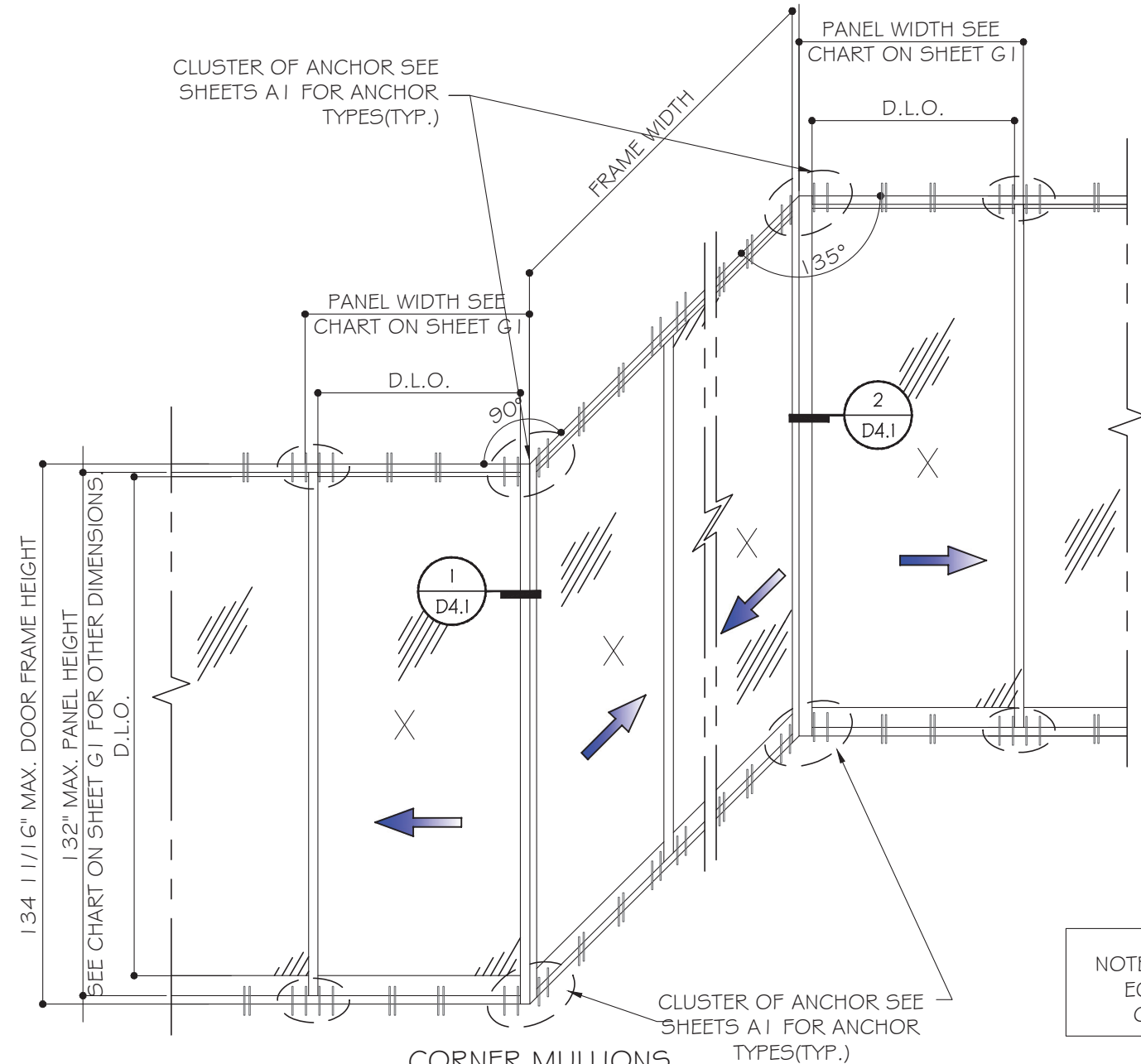


ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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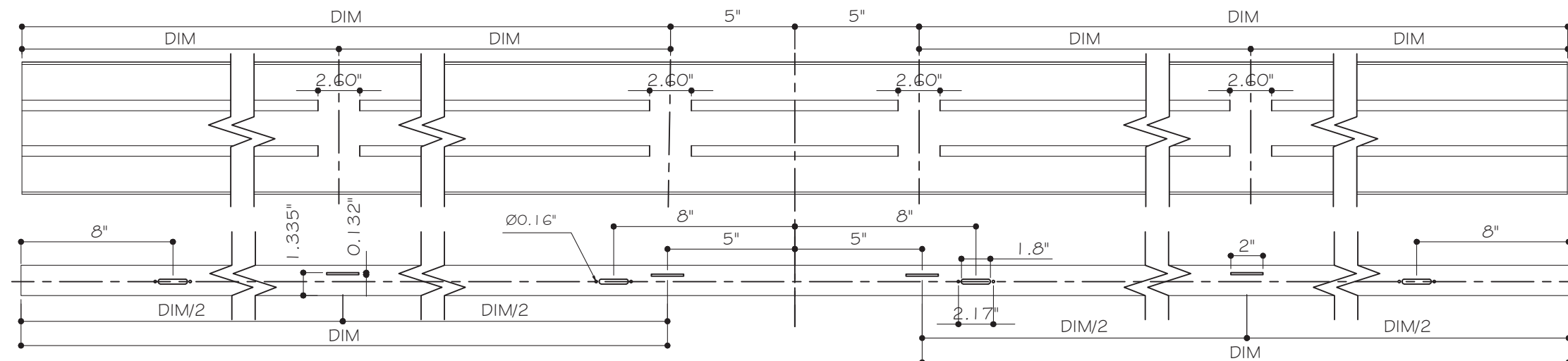
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www.MCYEngineering.com mcy@mcyengineering.com

Rev.	Date	Drawn By	Description
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Drawn Date	08.29.2024	Scale	
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E3			
Sheet No. 04 OF 35			

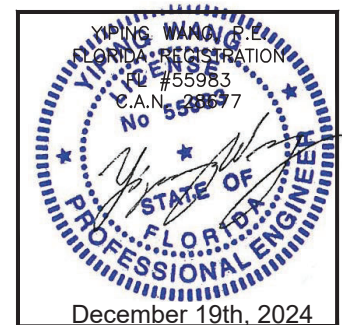


(SEE SHEET G2 FOR GLASS TYPES AND INTERLOCK OPTIONS)

NOTE: CAPACITY FOR SGD WITH EQ WIDTH(W) AND
EQUAL LOAD AT BOTH SIDES. FOR UNEQUAL
CONDITIONS TO BE CHECKED SEPARATELY.



TYPICAL WEEP HOLE LAYOUT



ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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Rev	Date	Drawn By	Description
R3	08.29.2024	James	revision

Drawn Date: 08.29.2024 Scale:

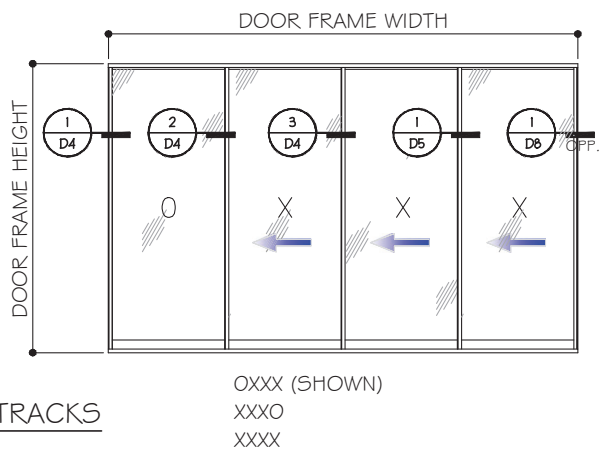
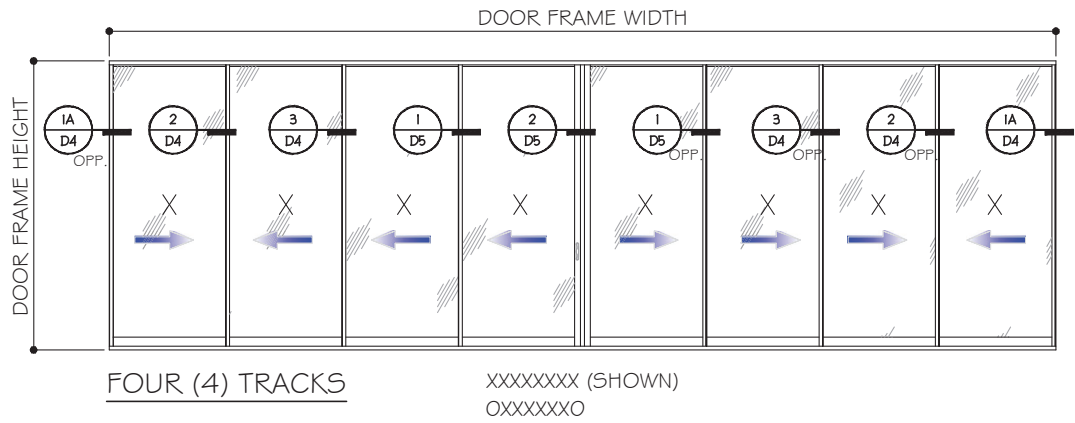
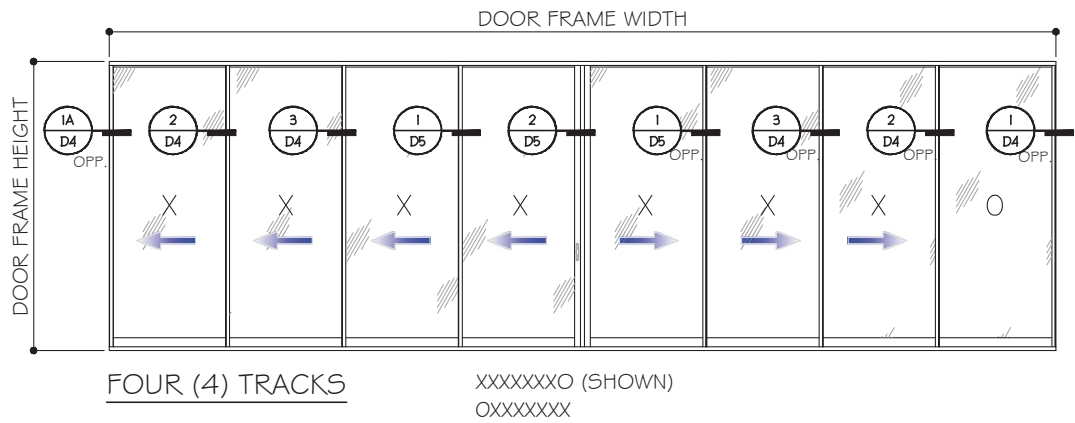
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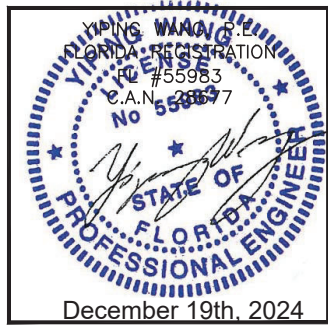
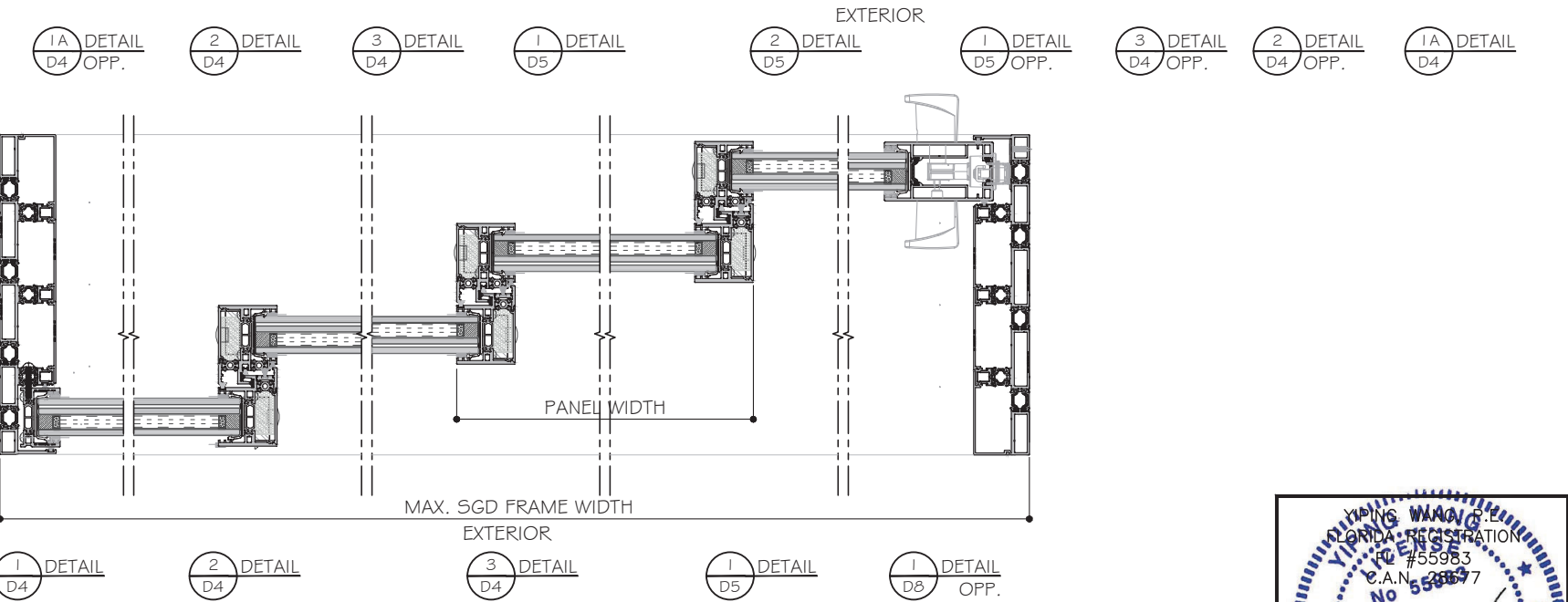
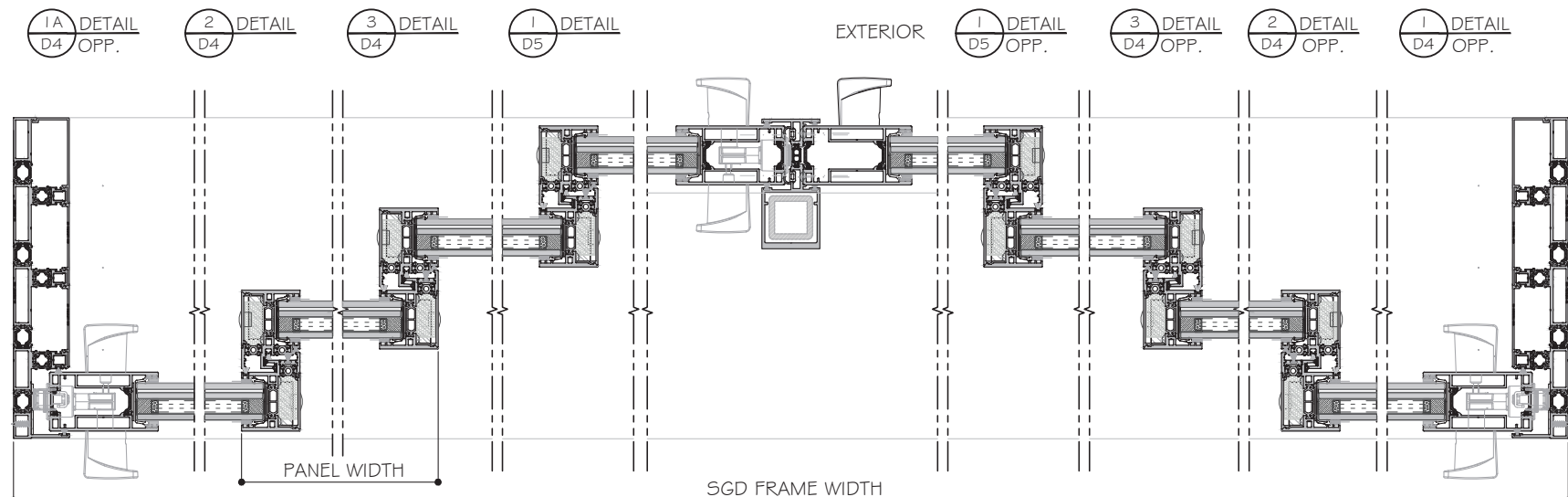
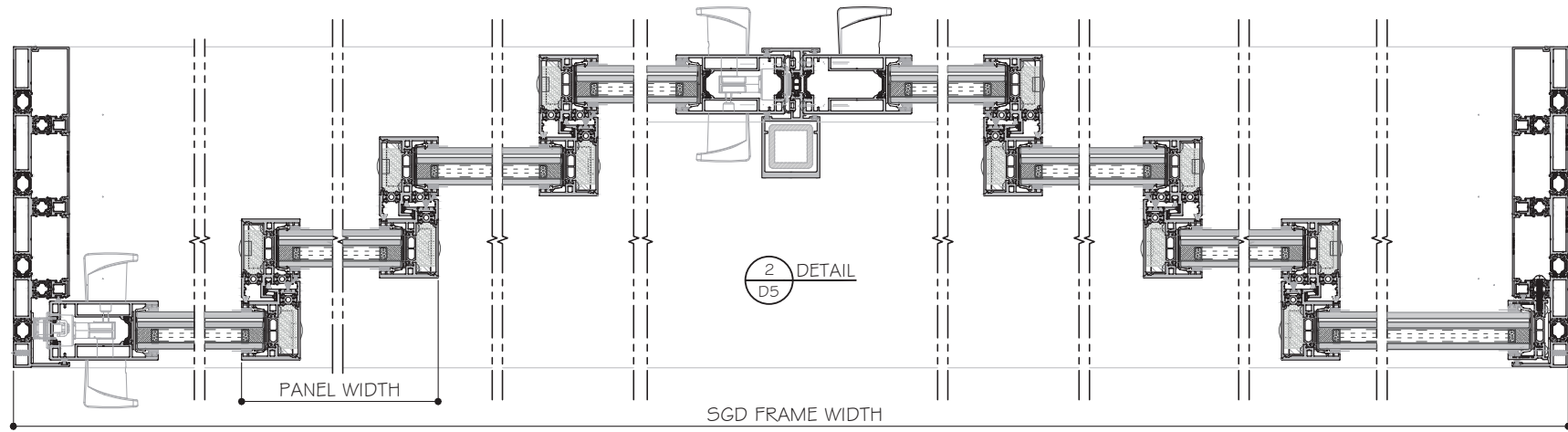
E4

Sheet No.
05 OF 35

APPROVED CONFIGURATION DOORS
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K.I FOR Dp AND INTERLOCK OPTIONS



- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
 3. FOR ALLOWABLE DESIGN PRESSURES OF SGD SEE SHEET G1 BASED ON INTERLOCK LEVEL 1, 2, 2R, 3 OR 4 & GLASS OPTIONS,
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 & A2 AND LAYOUT SEE SHEET E1 TO E4.
 5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



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12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

M

C

Y

ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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Rev.	Date	Drawn By	Description
R3	08.29.2024	James	revision

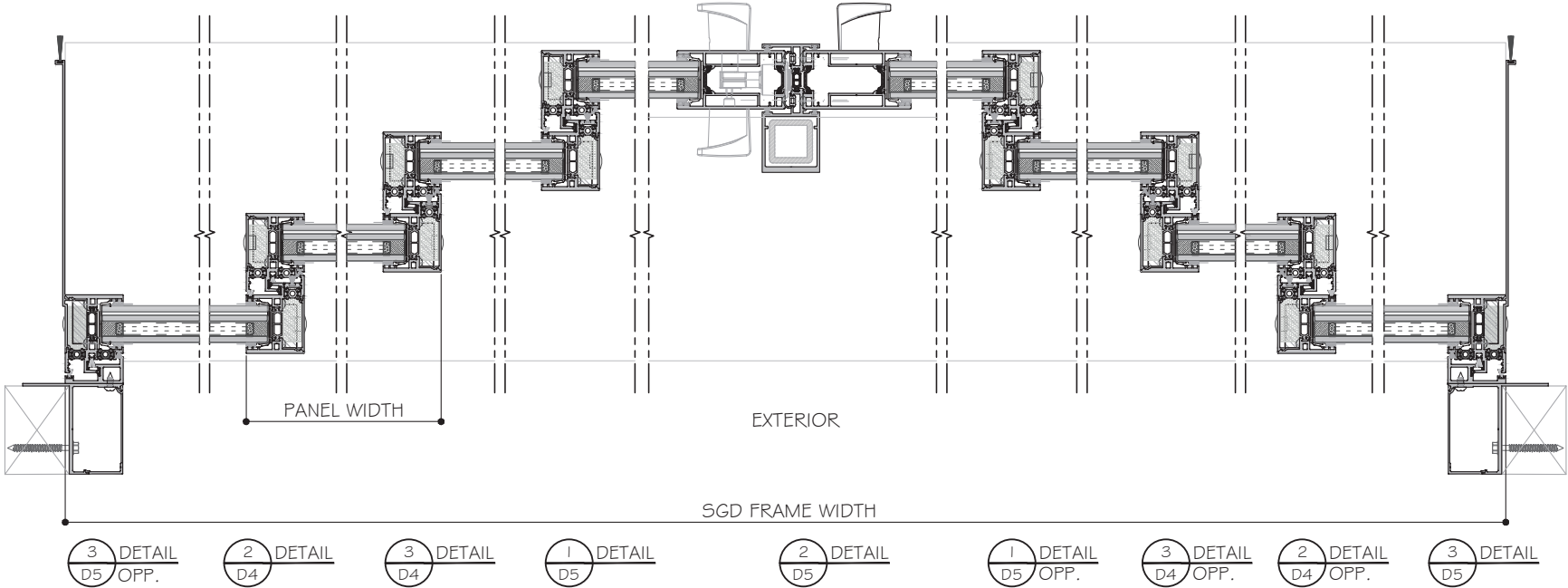
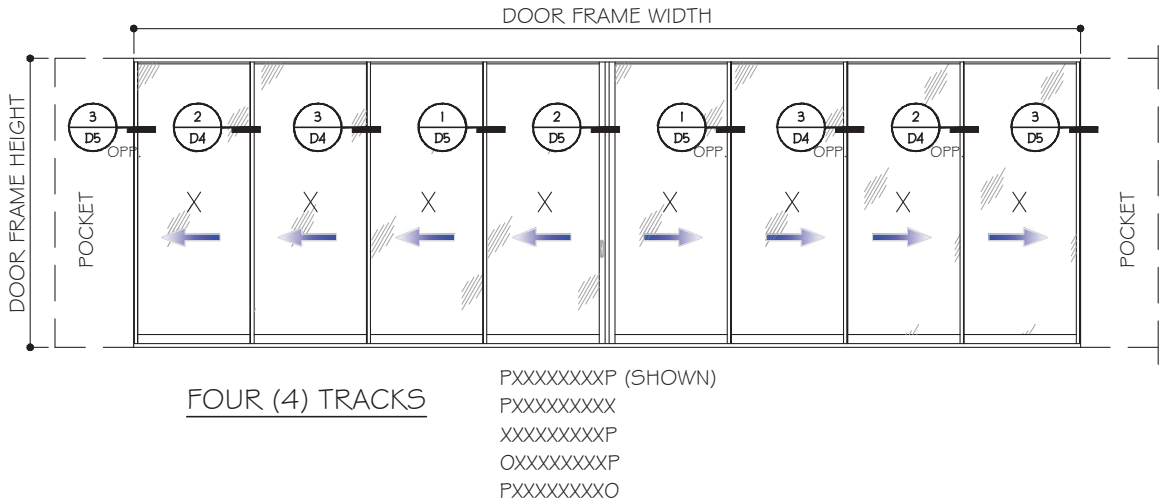
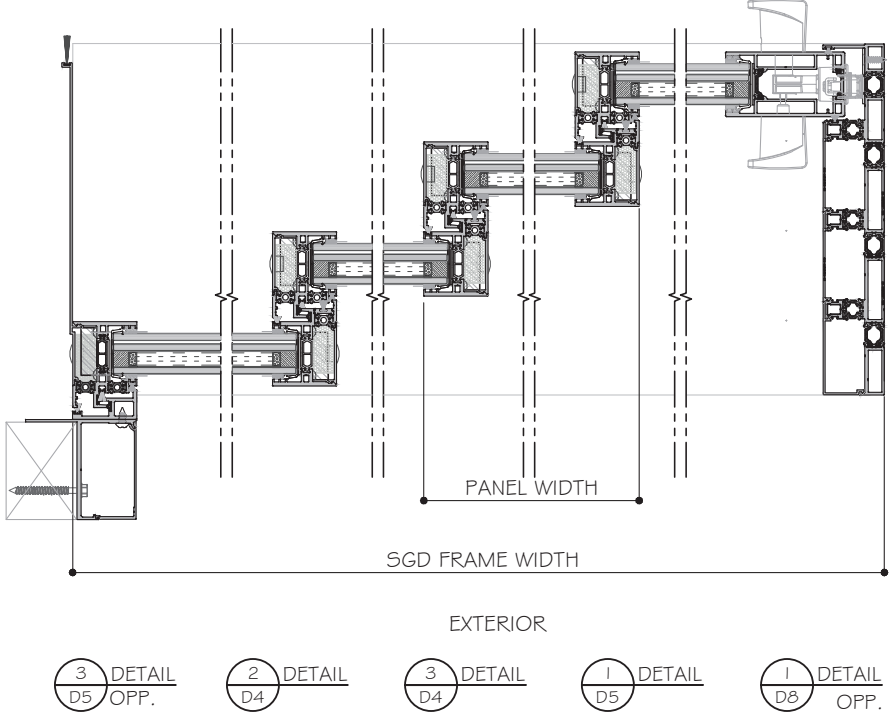
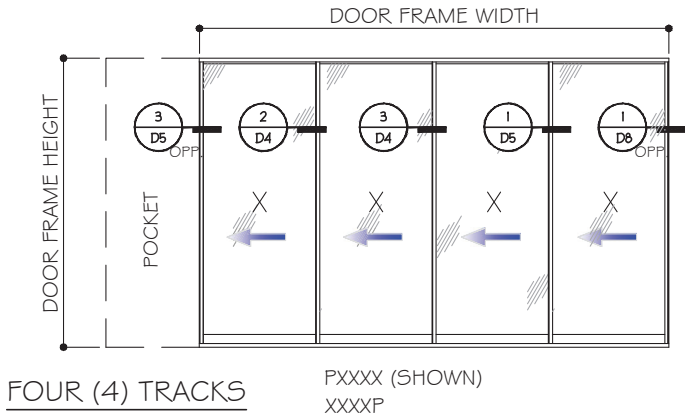
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Sheet No.
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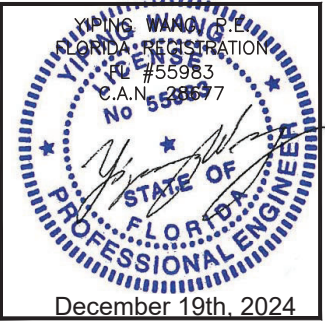
E5

APPROVED CONFIGURATION DOORS
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K.I FOR Dp AND INTERLOCK OPTIONS



NOTES:
CENTER PANELS & ASTRAGAL SHOWN AT INTERIOR TRACK.
IT CAN BE AT BOTH INSIDE OR EXTERIOR TRACK.

- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
 3. FOR ALLOWABLE DESIGN PRESSURES OF SGD SEE SHEET G1 BASED ON INTERLOCK LEVEL 1, 2, 2R, 3 OR 4 & GLASS OPTIONS,
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 & A2 AND LAYOUT SEE SHEET E1 TO E4.
 5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



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12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

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Rev.	Date	Drawn By	Description
R3	08.29.2024	James	revision

Drawn Date

08.29.2024

Scale

DRAWING NO.

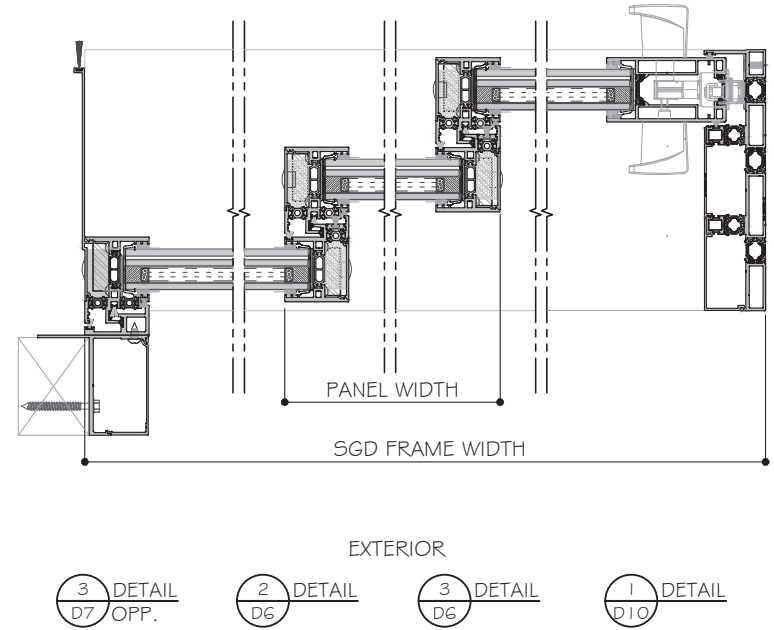
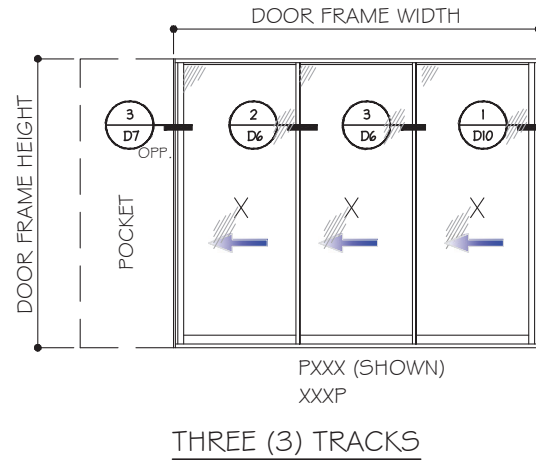
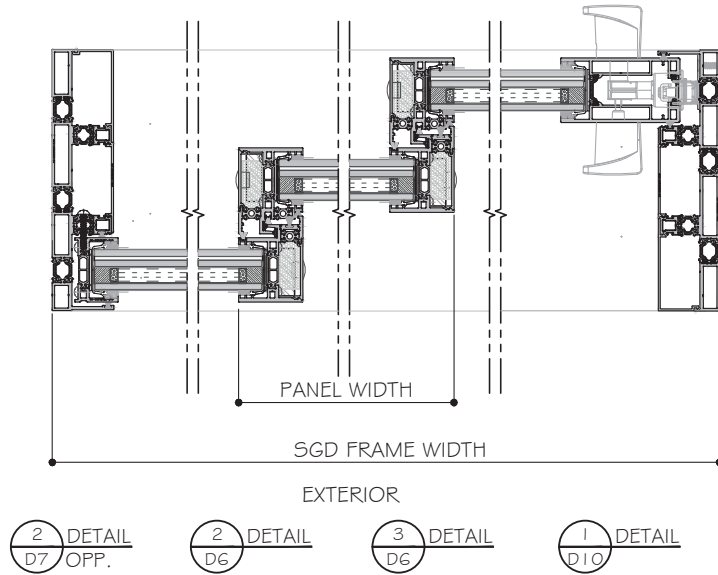
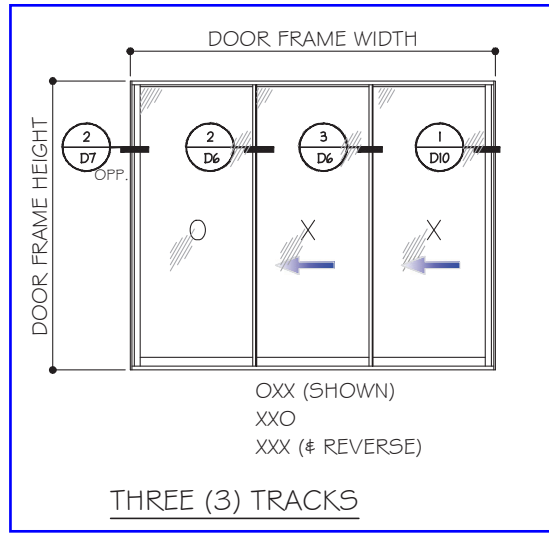
AD21-56

Sheet No.

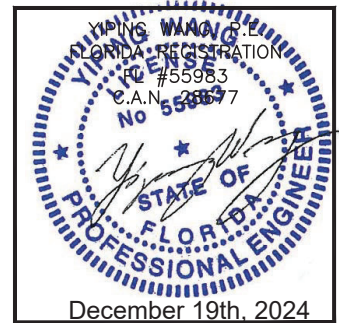
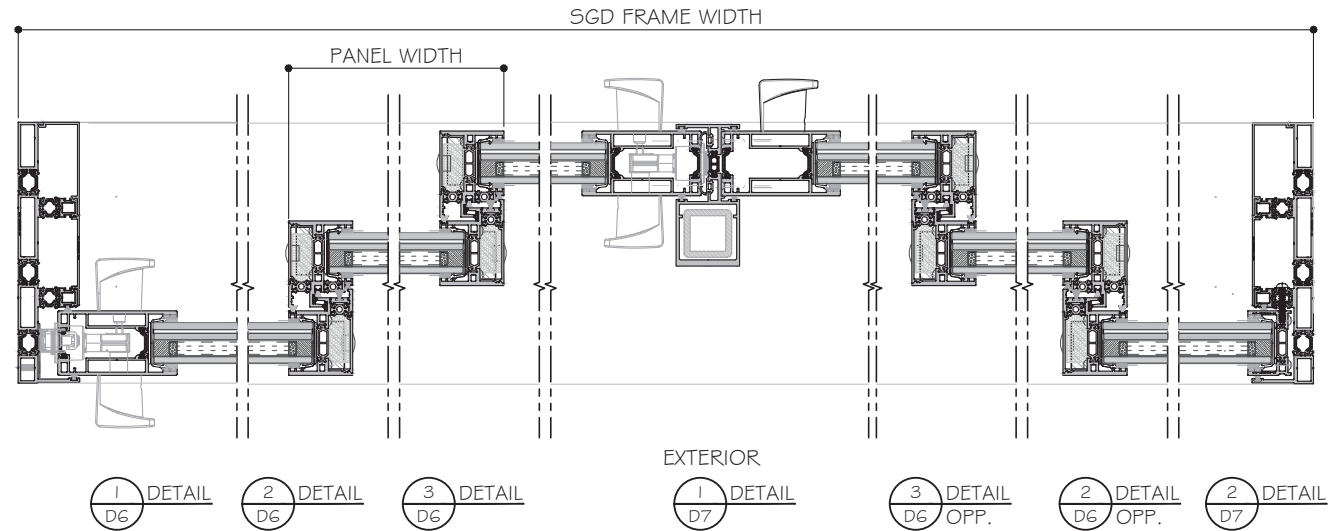
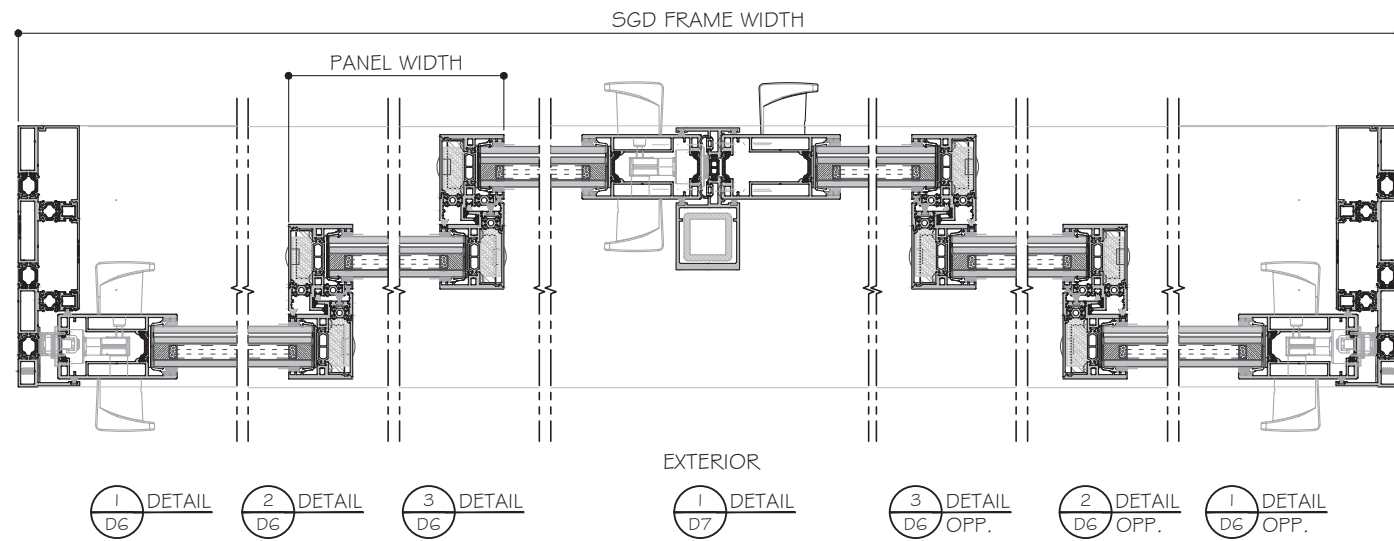
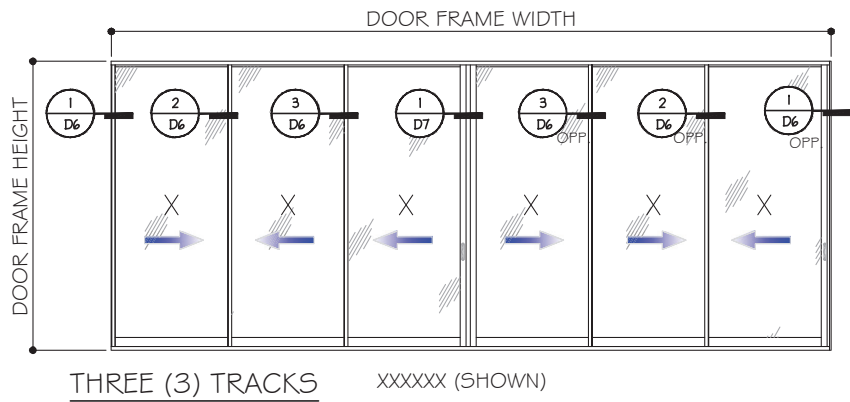
07 OF 35

E6

APPROVED CONFIGURATION DOORS
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET G I & G2 FOR Dp AND INTERLOCK OPTIONS



(REINFORCED SHOWN)
SEE SHEET K I FOR Dp AND REINFORCING OPTIONS



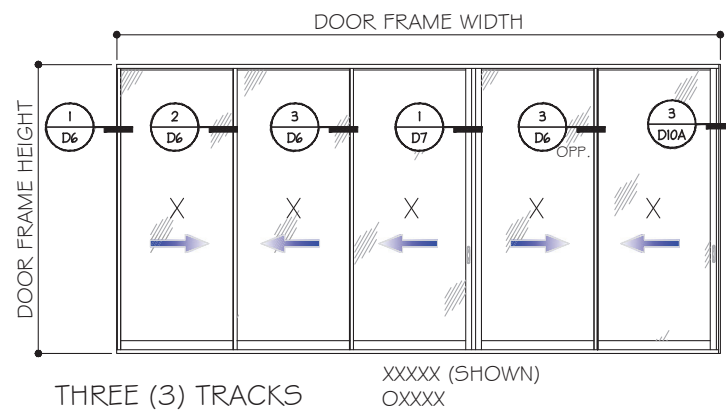
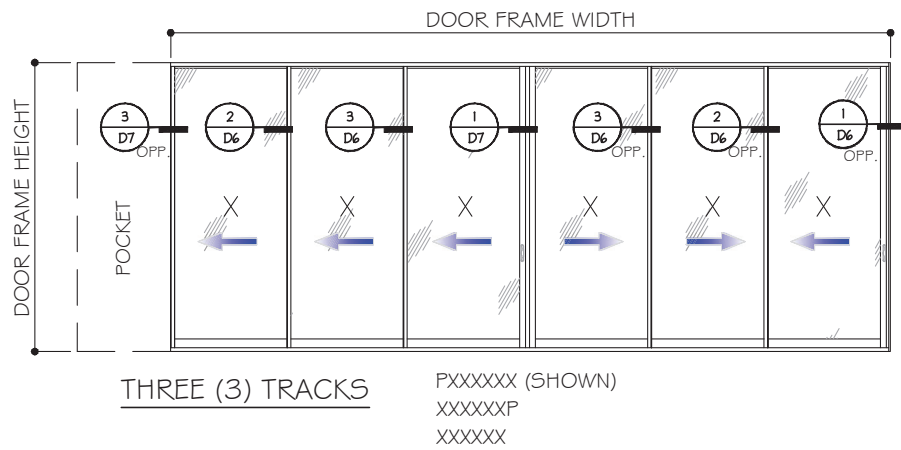
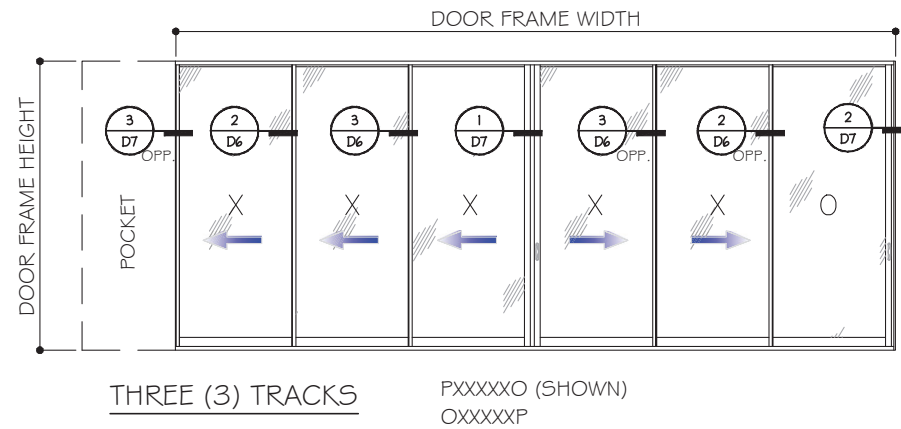
ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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MIRAMAR, FL 33027
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www.MCYEngineering.com mcy@mcyengineering.com

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10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

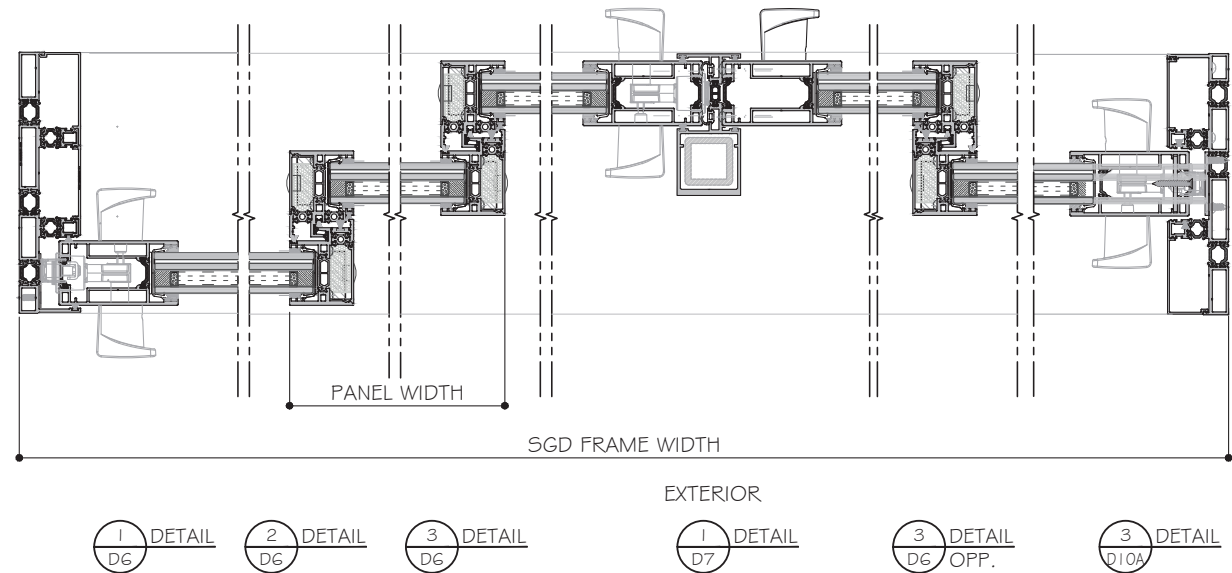
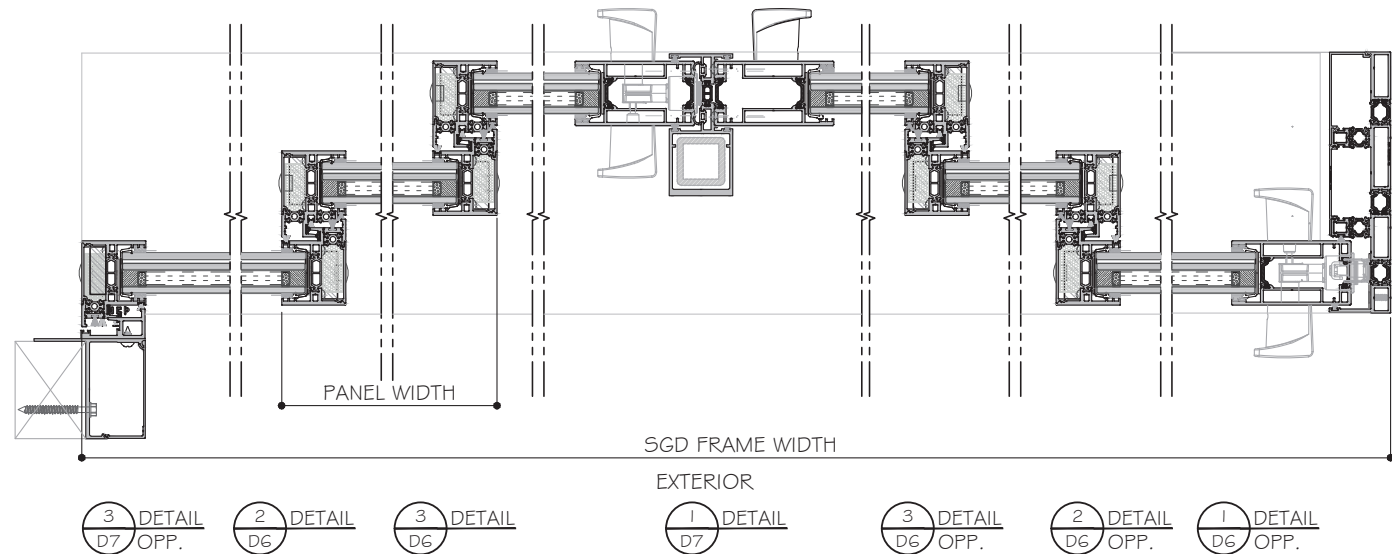
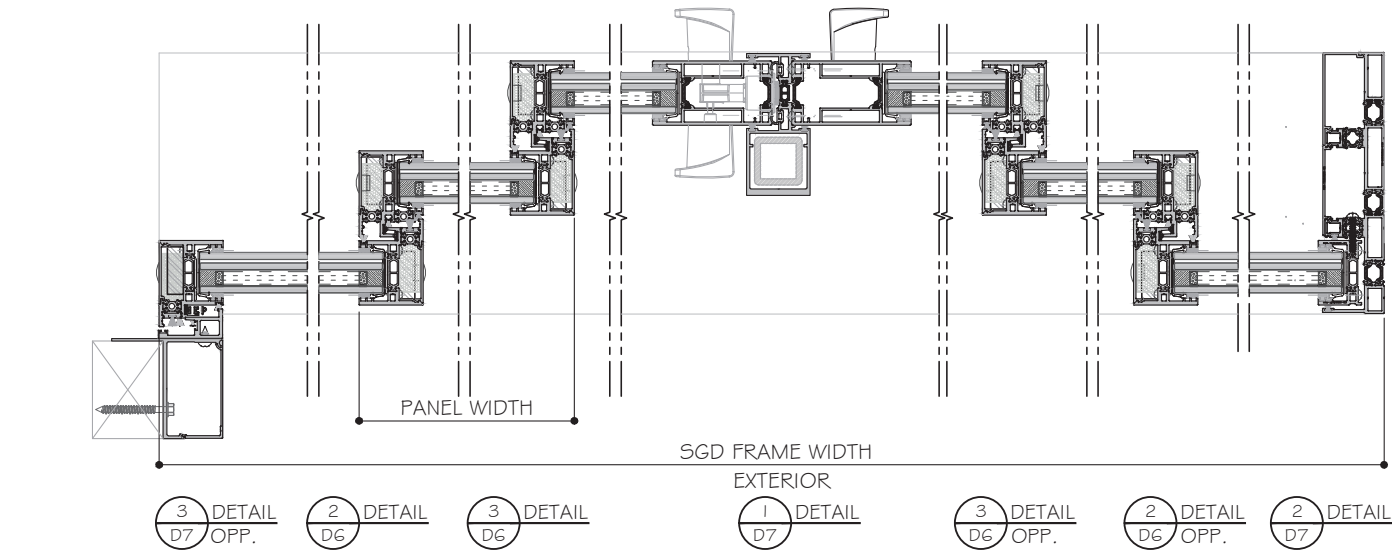
Rev.	Date	Drawn By	Description
R3	08.29.2024	James	revision
Drawn Date	08.29.2024	Scale	
DRAWING NO.			
AD21-56			
E7			
Sheet No.			
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APPROVED CONFIGURATION DOORS
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET G1 & G2 FOR DP AND INTERLOCK OPTIONS



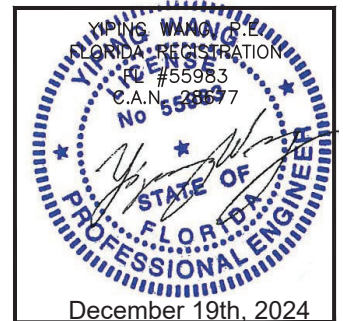
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
3. FOR ALLOWABLE DESIGN PRESSURES OF SGD SEE SHEET G1 BASED ON INTERLOCK LEVEL 1, 2, 2R, 3 OR 4 & GLASS OPTIONS,
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 & A2 AND LAYOUT SEE SHEET E1 TO E4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

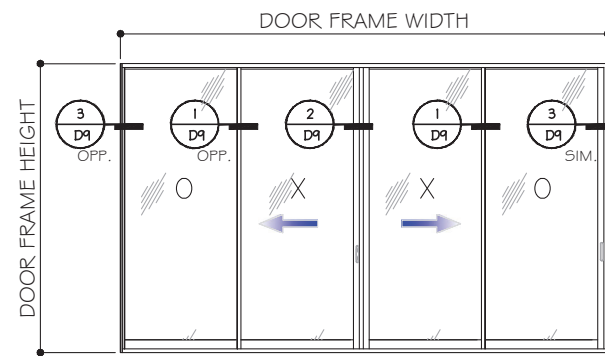


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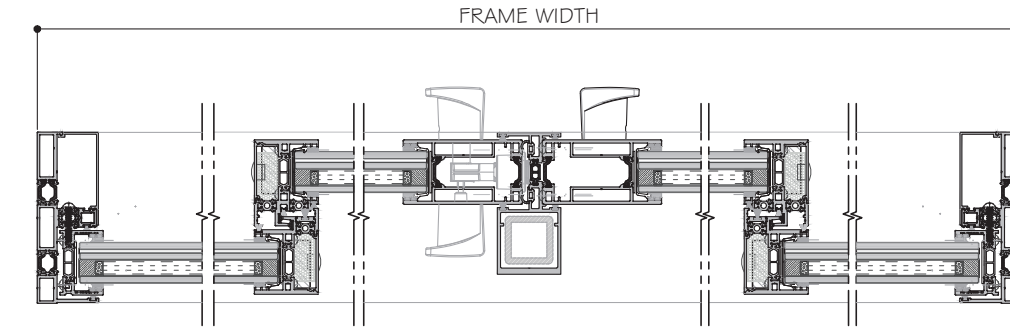
CENTER PANELS & ASTRAGAL SHOWN AT INTERIOR TRACK.
IT CAN BE AT BOTH INSIDE OR EXERTIOR TRACK.



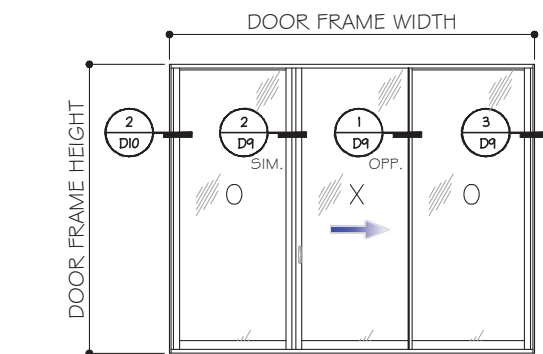
APPROVED CONFIGURATION DOORS
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET G1 & G2 FOR Dp AND INTERLOCK OPTIONS



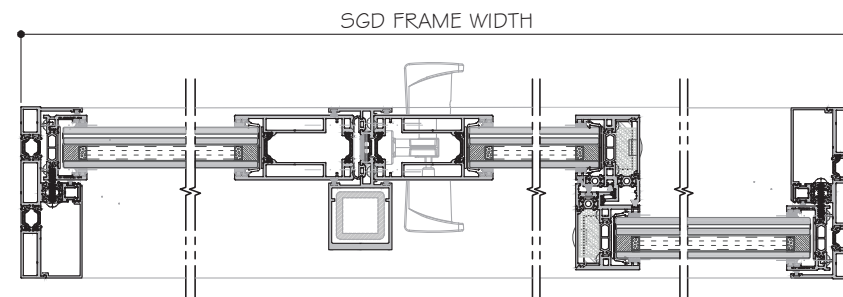
TWO (2) TRACKS OXXO (SHOWN)
XXXX (SIMILAR)



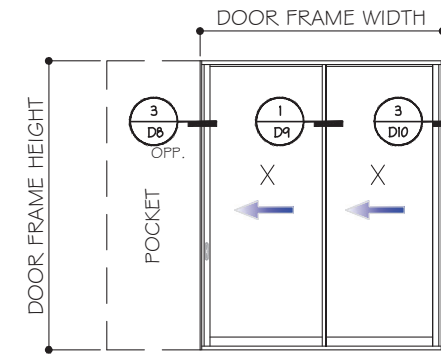
3 DETAIL D9 OPP. 1 DETAIL D9 OPP. 2 DETAIL D9 1 DETAIL D9 OPP. 3 DETAIL D9 SIM.



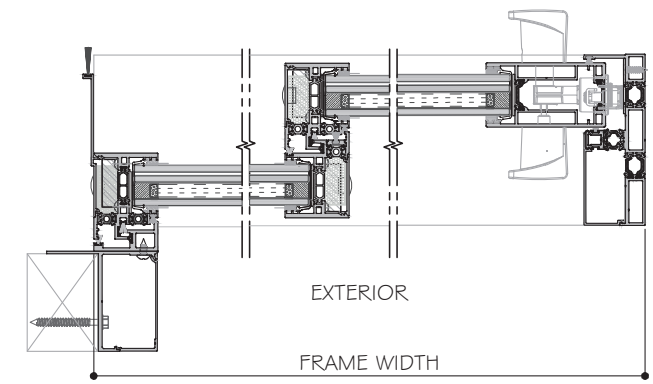
TWO (2) TRACKS OXO (SHOWN)
OXO (REVERSE)



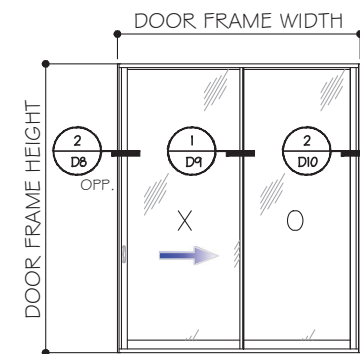
2 DETAIL D10 2 DETAIL D9 SIM. 1 DETAIL D9 OPP. 3 DETAIL D9



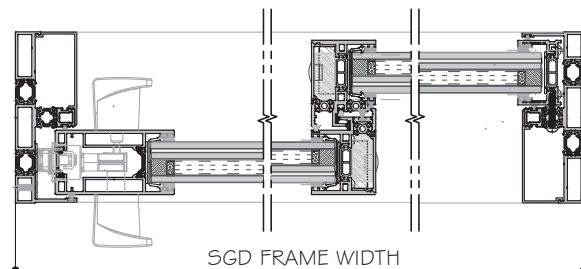
TWO (2) TRACKS PXX (SHOWN)
XXP (REVERSE)



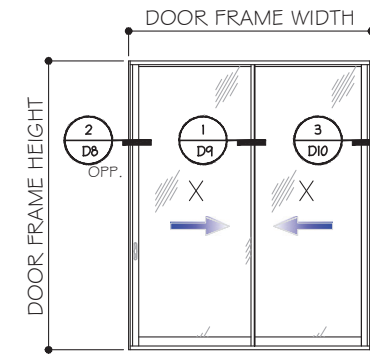
3 DETAIL D8 OPP. 1 DETAIL D9 3 DETAIL D10



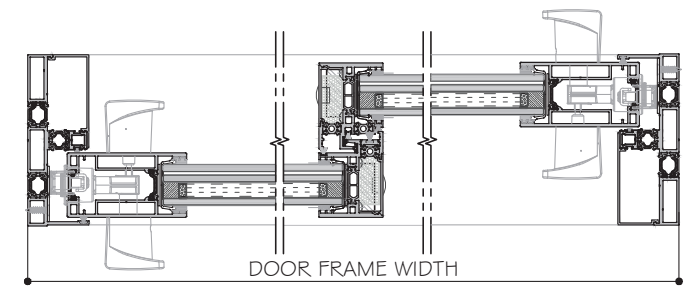
XO (SHOWN)
OX
TWO (2) TRACKS



2 DETAIL D8 OPP. 1 DETAIL D9 2 DETAIL D10 OPP.



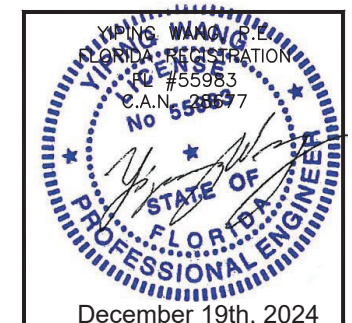
XX
TWO (2) TRACKS



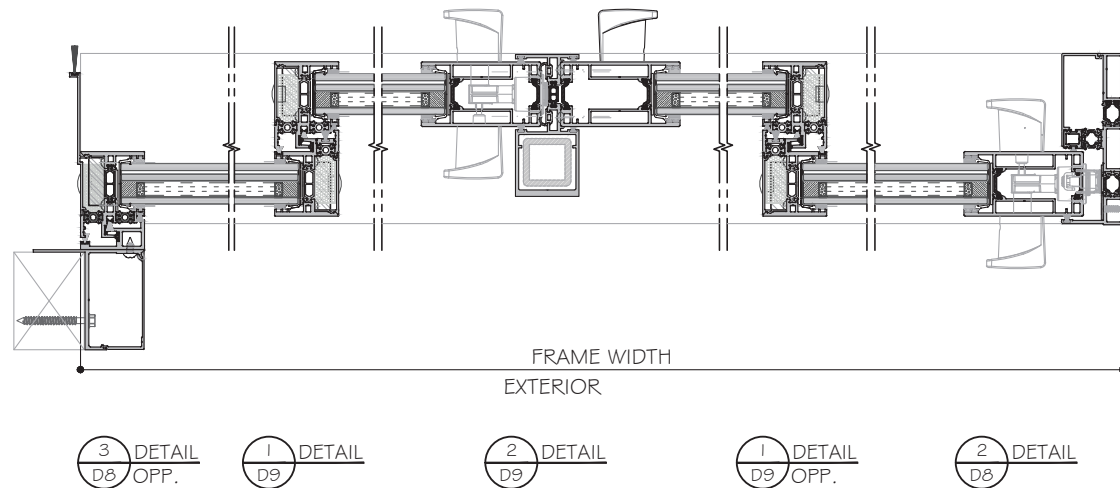
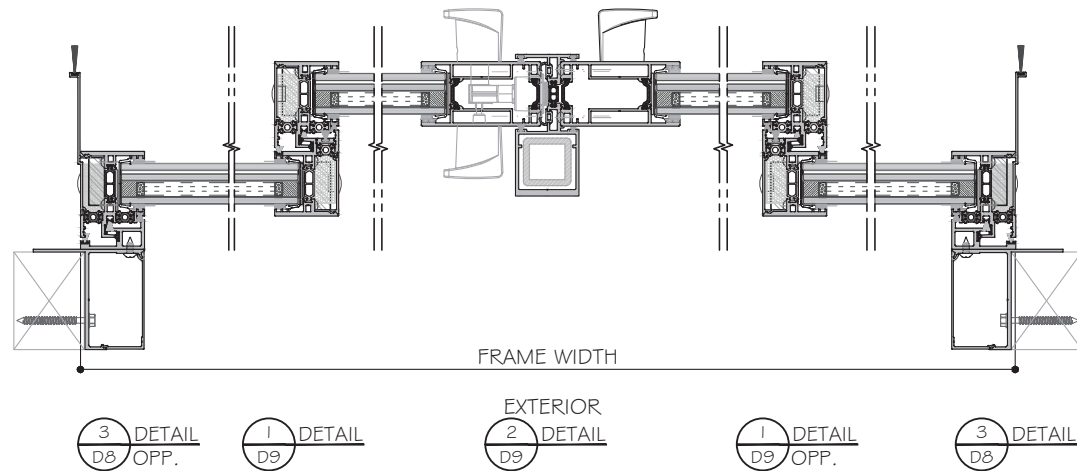
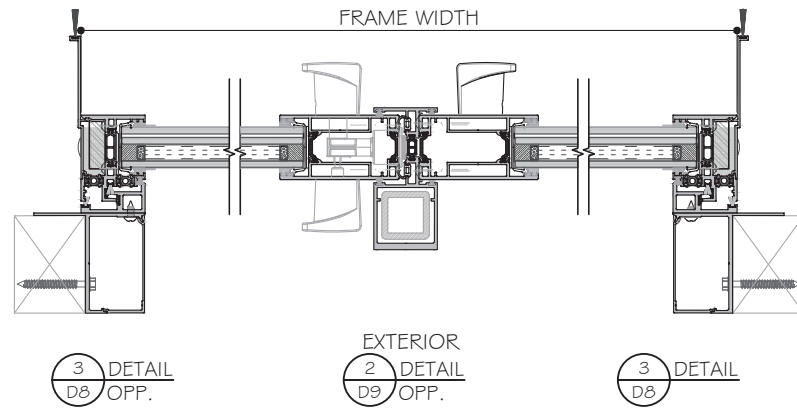
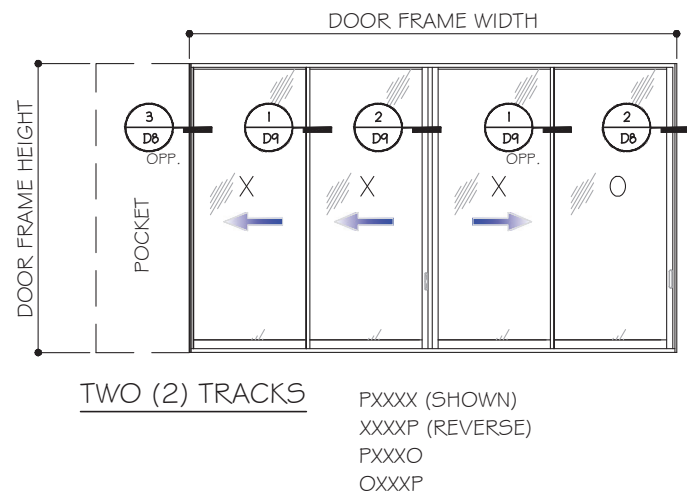
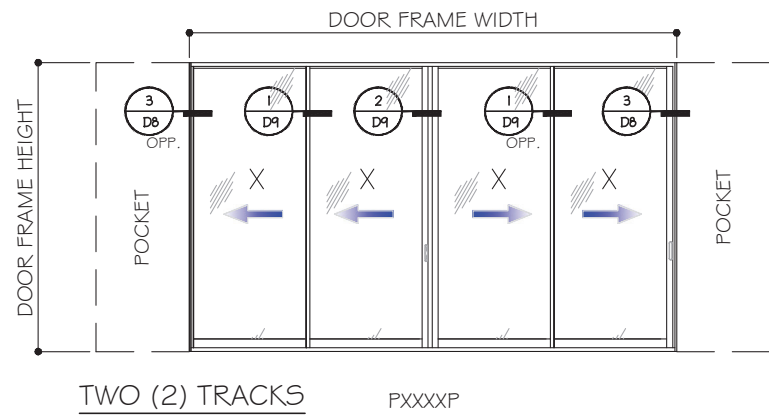
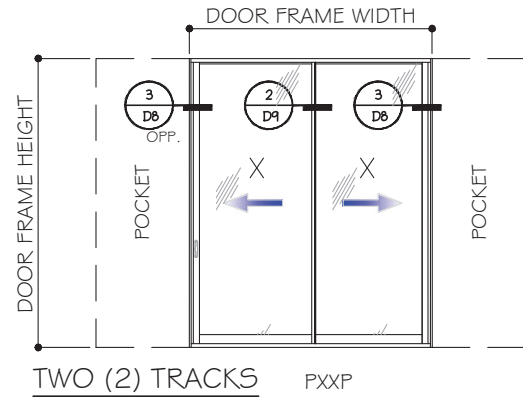
2 DETAIL D8 OPP. 1 DETAIL D9 3 DETAIL D10

NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
3. FOR ALLOWABLE DESIGN PRESSURES OF SGD SEE SHEET G1 BASED ON INTERLOCK LEVEL 1, 2, 2R, 3 OR 4 & GLASS OPTIONS,
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 & A2 AND LAYOUT SEE SHEET E1 TO E4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



APPROVED CONFIGURATION DOORS
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET G1 & G2 FOR DP AND INTERLOCK OPTIONS

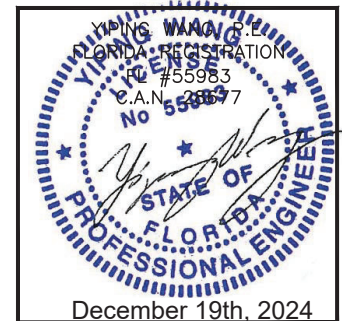


NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G2 FOR GLASS AND INTERLOCK OPTIONS.
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NOTES:

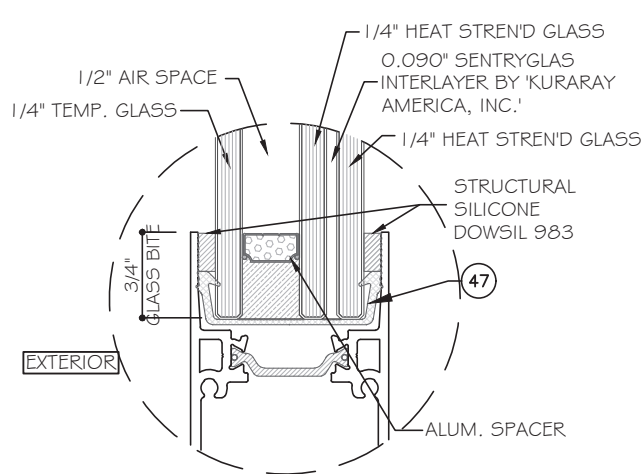
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IT CAN BE AT BOTH INSIDE OR EXTERIOR TRACK.



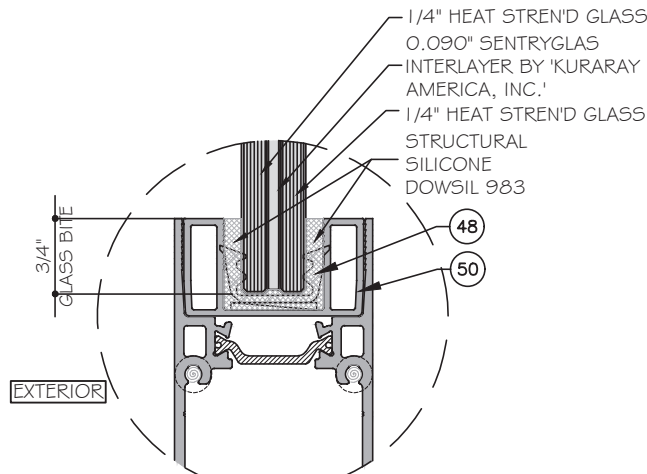
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12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
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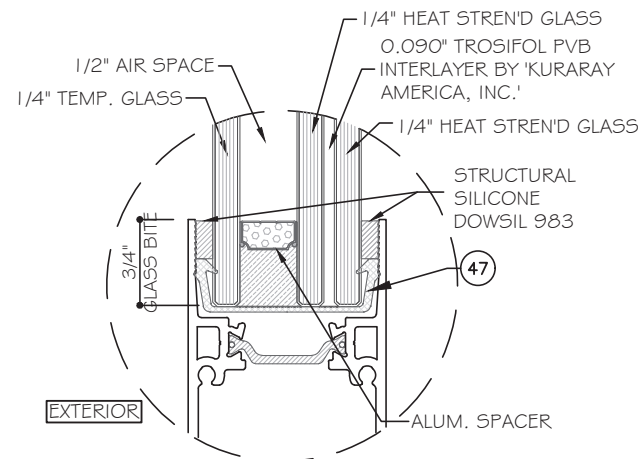
Rev. No.	Date	Drawn By	Description
R3	08.29.2024	James	revision
Drawn Date	08.29.2024	Scale	
DRAWING NO.	AD21-56		
Sheet No.	E10		
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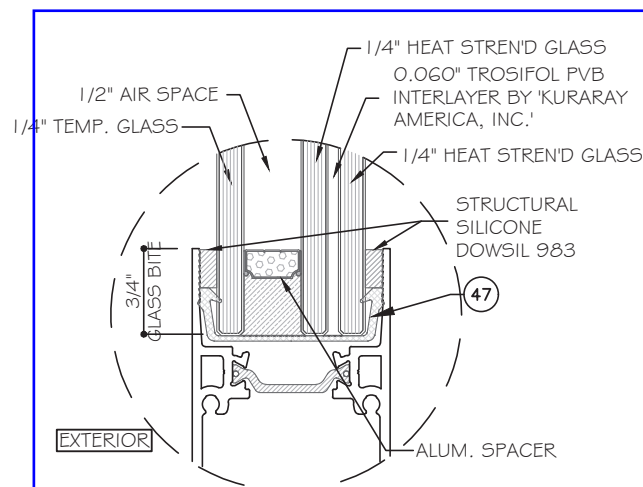
GLASS TYPE 'G1' (LMI)
1 5/16" NOMINAL OVERALL



GLASS TYPE 'G4' (LMI)
9/16" NOMINAL OVERALL



GLASS TYPE 'G2' (LMI)
1 5/16" NOMINAL OVERALL



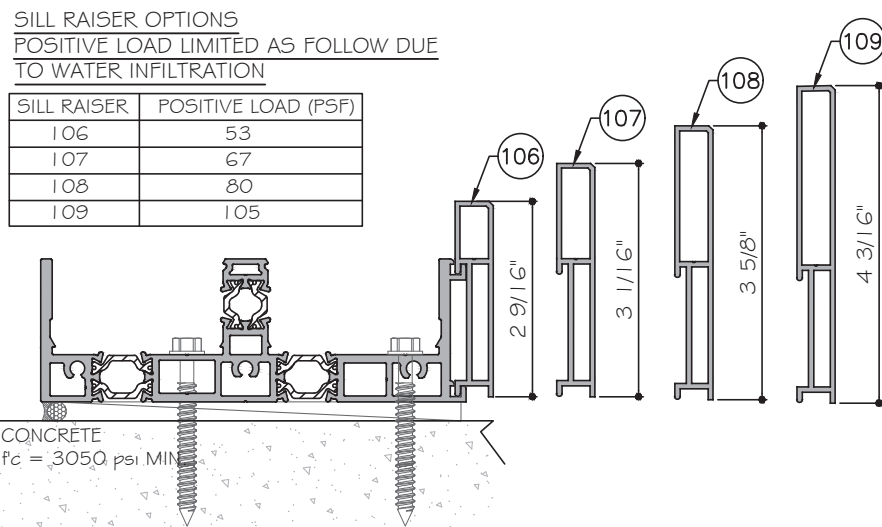
GLASS TYPE 'G3' (SMI ONLY)
1 5/16" NOMINAL OVERALL

NOTE:
PART 47 & 50 USED AS SETTING BLOCK.
GLASS BITE APPLY TO ENTIRE SYSTEM.

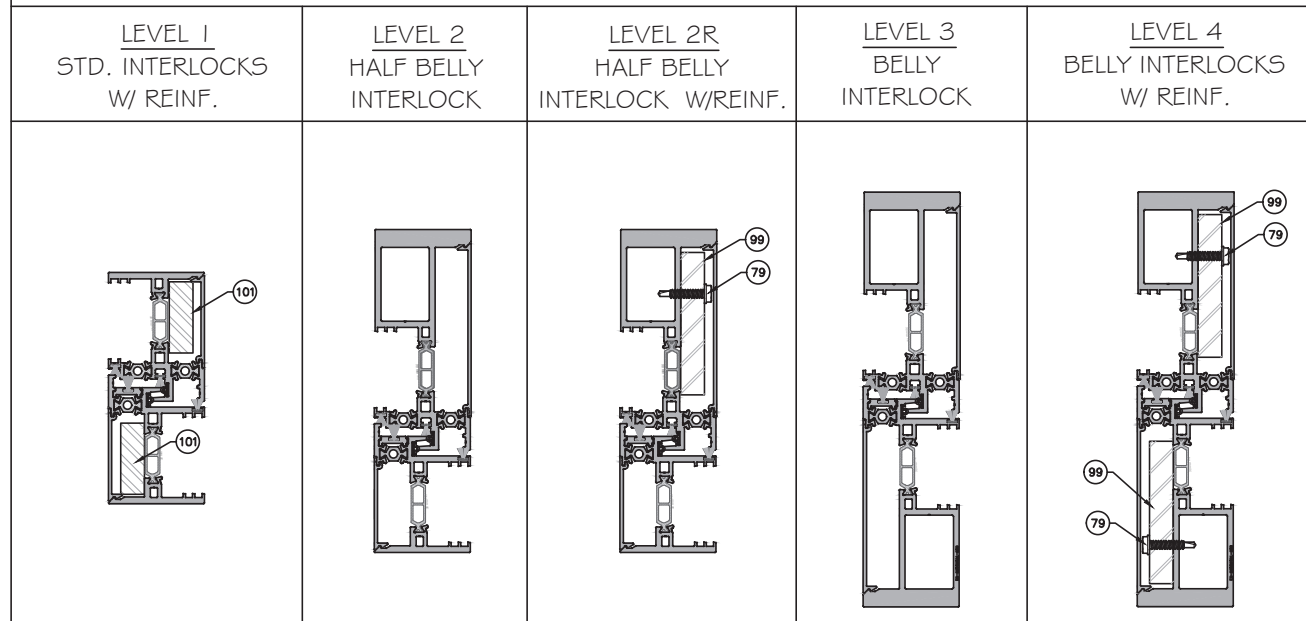
NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS). GLASS G1 & G2 & G4
COMPLY WITH ANSI Z97.1

SILL RAISER OPTIONS
POSITIVE LOAD LIMITED AS FOLLOW DUE
TO WATER INFILTRATION

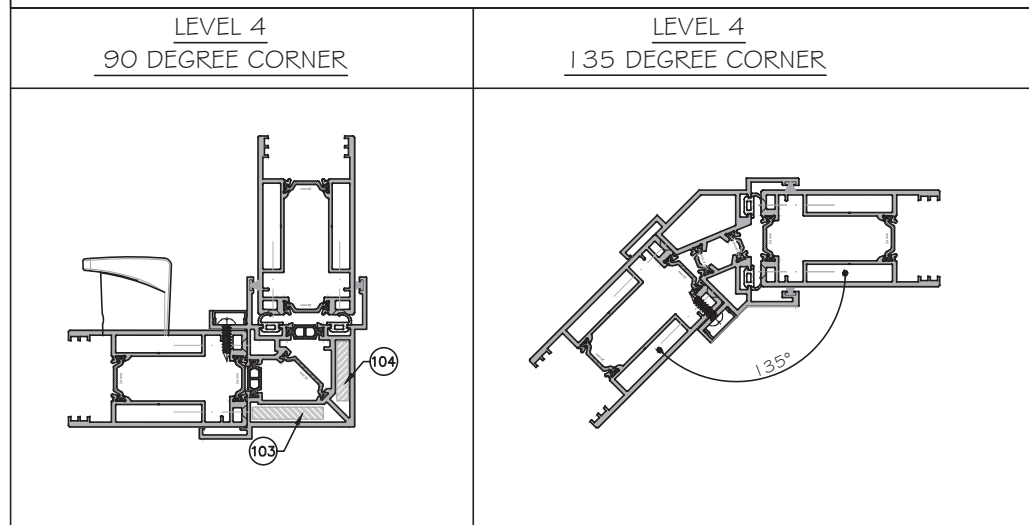
SILL RAISER	POSITIVE LOAD (PSF)
106	53
107	67
108	80
109	105



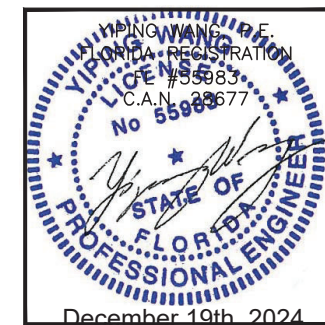
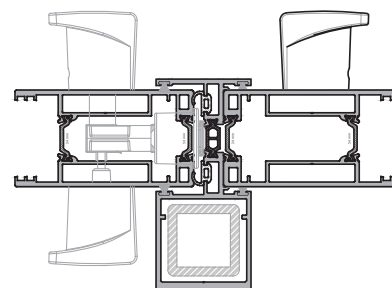
INTERLOCK OPTIONS



CORNER OPTIONS



ASTRAGAL FOR ALL LEVELS



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12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

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James	08.29.2024	R3	

Drawn Date: 08.29.2024

Scale:

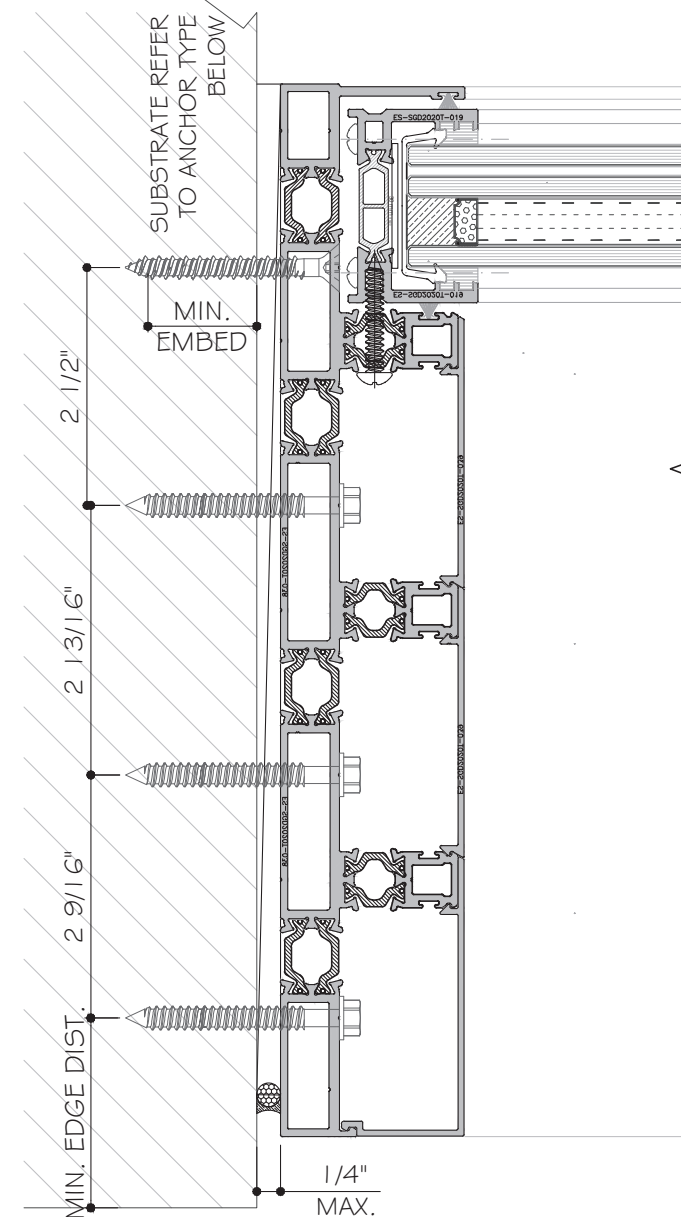
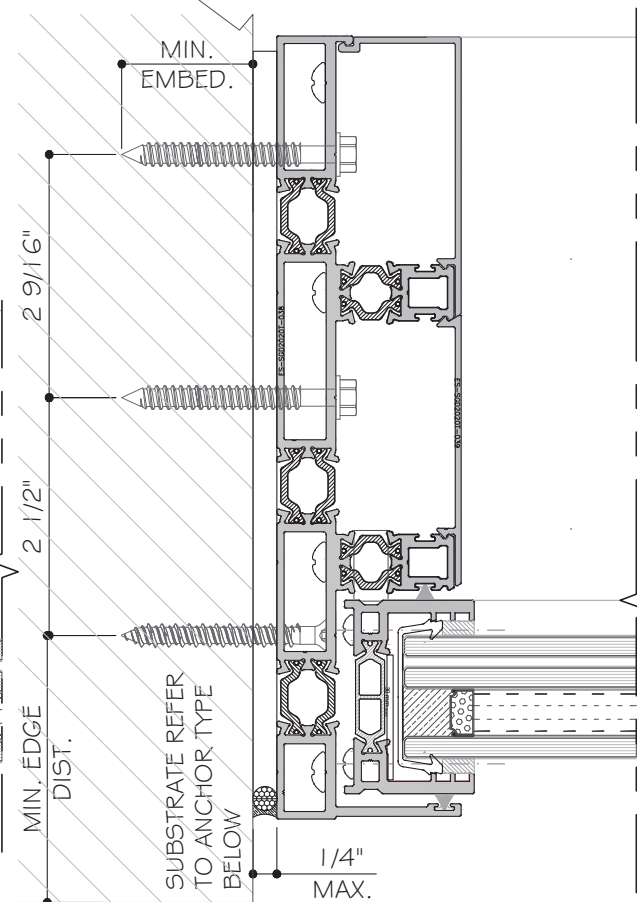
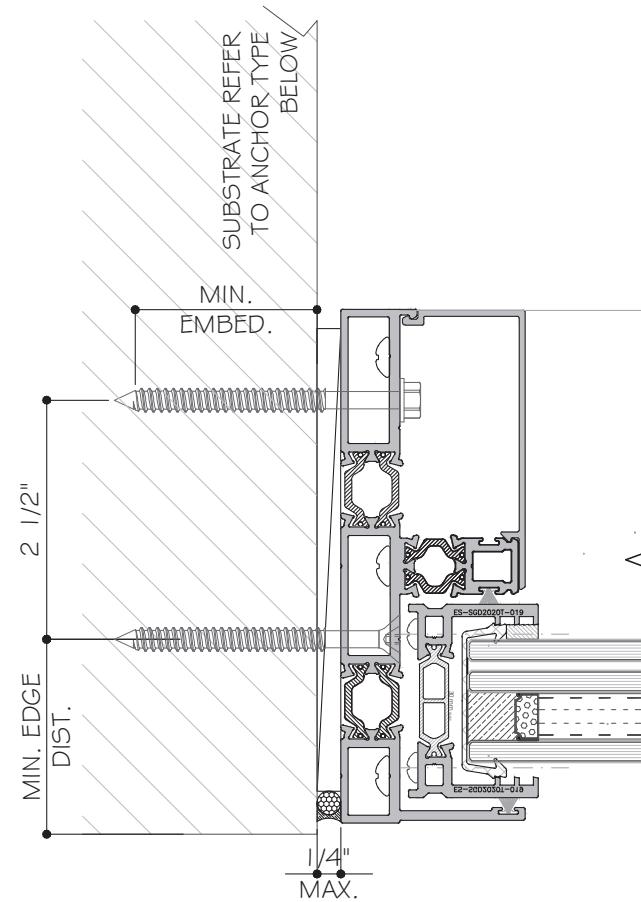
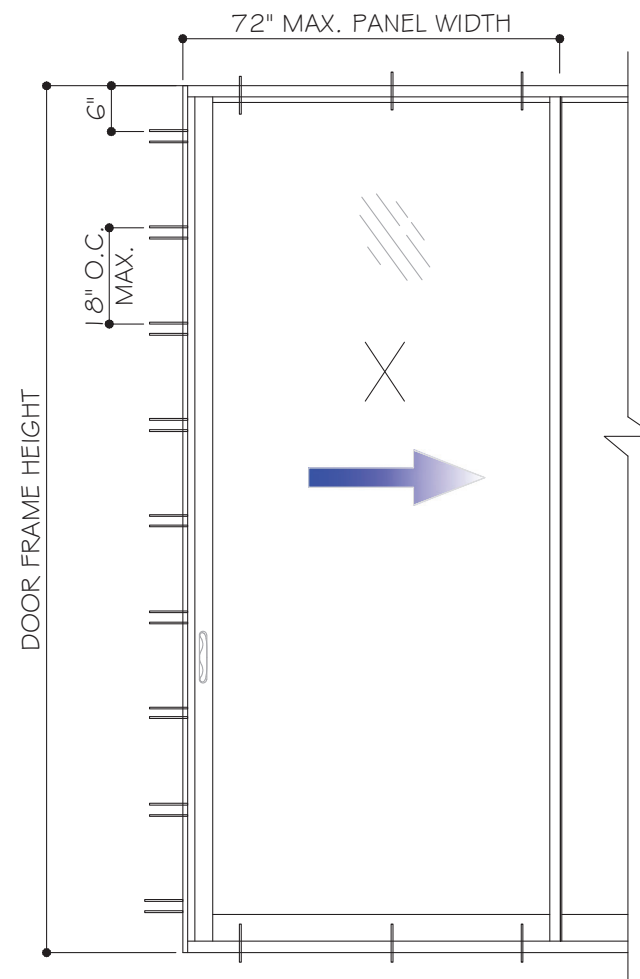
DRAWING NO.

AD21-56

G2

Sheet No.

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TYPICAL JAMB ANCHOR TYPES:

2 TRACK SGD

3 TRACK SGD

4 TRACK SGD

TYPE "A": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
 1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
 OR THRU. WOOD INTO CONCRETE OR MASONRY
 W/ 1 3/4" MIN. EMBED INTO CONCRETE
 OR 1 1/4" MIN. EMBED INTO HOLLOW BLOCK
 OR 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK

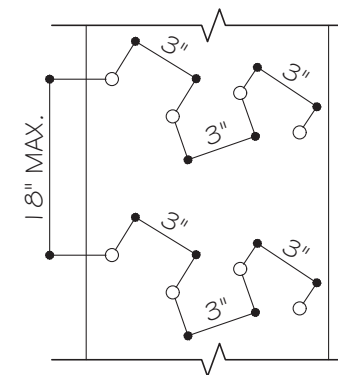
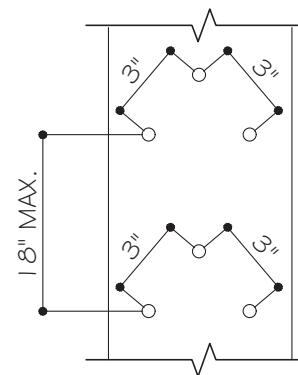
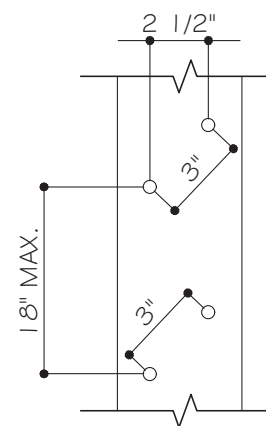
TYPE "B": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
 1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE
 OR 1 1/4" MIN. EMBED INTO HOLLOW BLOCK
 OR 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)
 INTO METAL STRUCTURE
 ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
 STEEL: 3/16" THK. MIN. ($F_y=36$ KSI, MIN.)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
 STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE:
 INTO CONCRETE OR MASONRY: 2 1/2" MIN.
 INTO WOOD: 1" MIN.
 INTO METAL: 1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS $f'_c=3050$ psi MIN.
 C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY $f'_m=2000$ psi MIN.
 WOOD: SG=0.55 MIN.

NOTE: METAL STRUCTURES AND WOOD BUCKS NOT BY ES WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN THE IMPOSED LOADS FROM SLIDING GLASS DOOR.

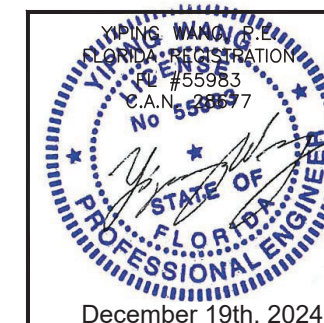


2 TRACK SGD

3 TRACK SGD

4 TRACK SGD

TYPICAL ANCHOR SPACING: @3" O.C.



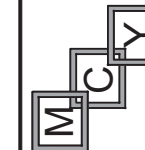
ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

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Rev. No.	Date	Drawn By	Description
R3	08.29.2024	James	revision

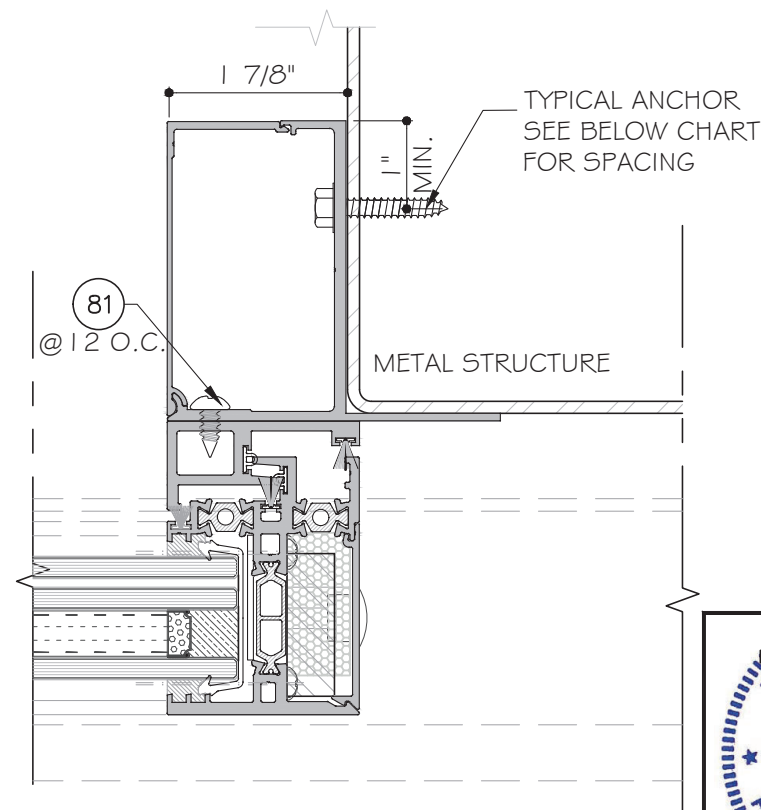
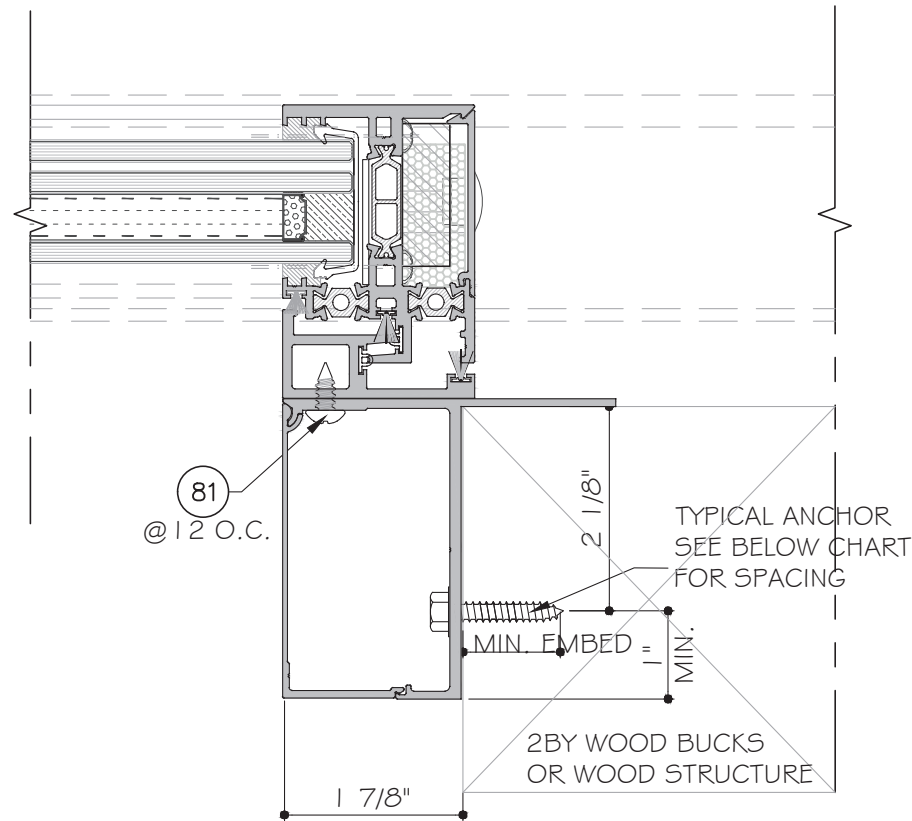
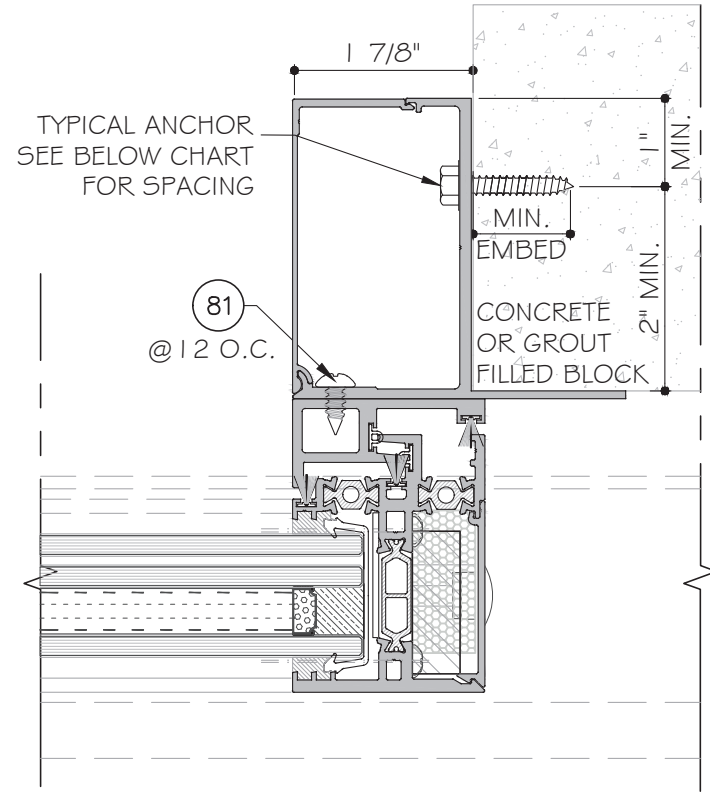
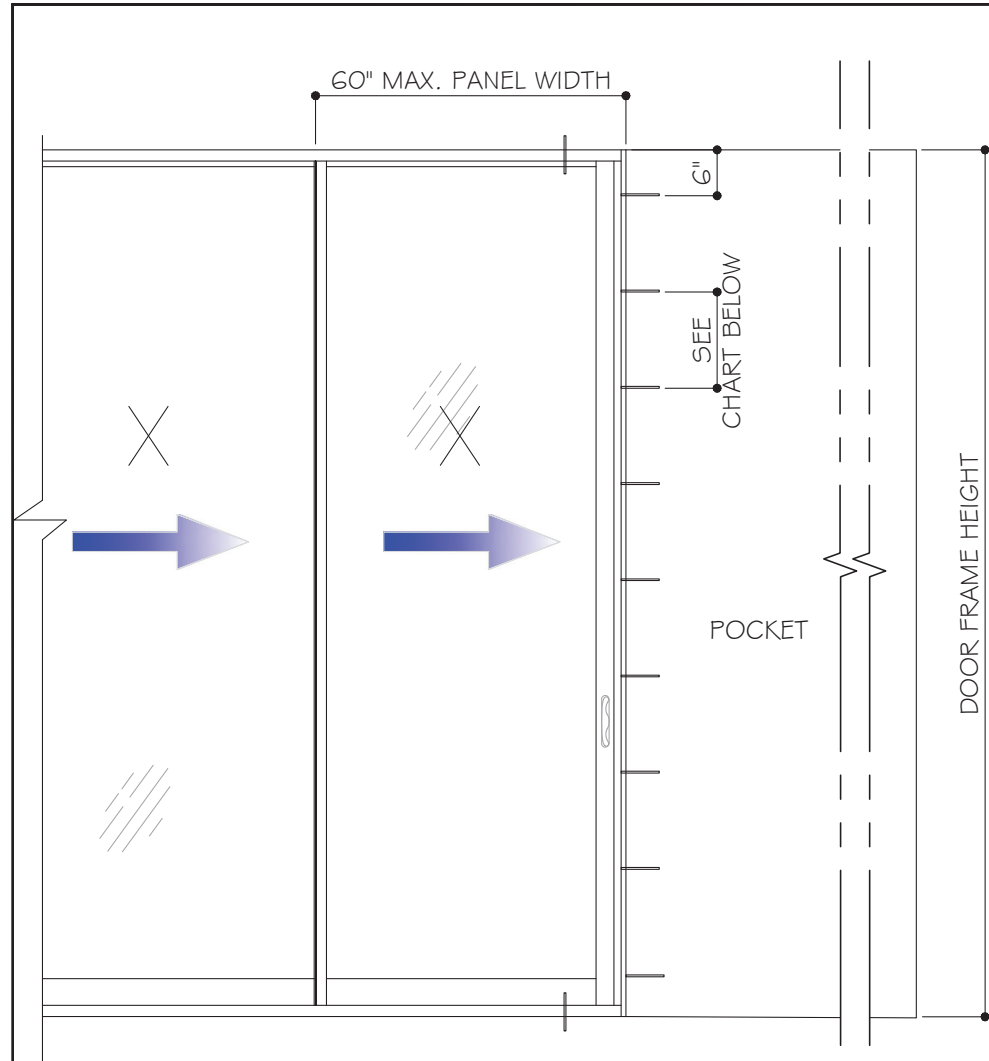
Drawn Date	Scale
08.29.2024	

DRAWING NO.

AD21-56

J1

Sheet No.
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NOTE: METAL STRUCTURES AND WOOD BUCKS NOT BY ES WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN THE IMPOSED LOADS FROM SLIDING GLASS DOOR.

POCKET JAMB ANCHOR TYPES:

TYPE "A": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
1 1/2" MIN. PENETRATION INTO 2X WOOD BUCK OR WOOD STRUCTURE OR THRU. WOOD INTO CONCRETE OR GROUT FILLED BLOCK.
1 3/4" MIN. EMBED INTO CONCRETE.
2 1/4" MIN. EMBED INTO GROUT FILLED BLOCK.

TYPE "B": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE.
OR 2 1/4" MIN. EMBED INTO GROUT FILLED BLOCK.

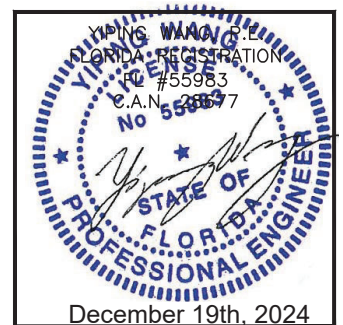
TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI) INTO METAL STRUCTURE

ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. ($F_y=36$ KSI, MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE: CONCRETE 2".
MIN. EDGE DISTANCE: WOOD: 1".
MIN. EDGE DISTANCE: METAL: 1/2".

CONCRETE AT HEAD, SILL OR JAMBS $f'_c=3050$ psi MIN.
GROUT FILLED BLOCK AT JAMB ONLY $f'_m=2000$ psi MIN.
WOOD: SG=0.55 MIN.

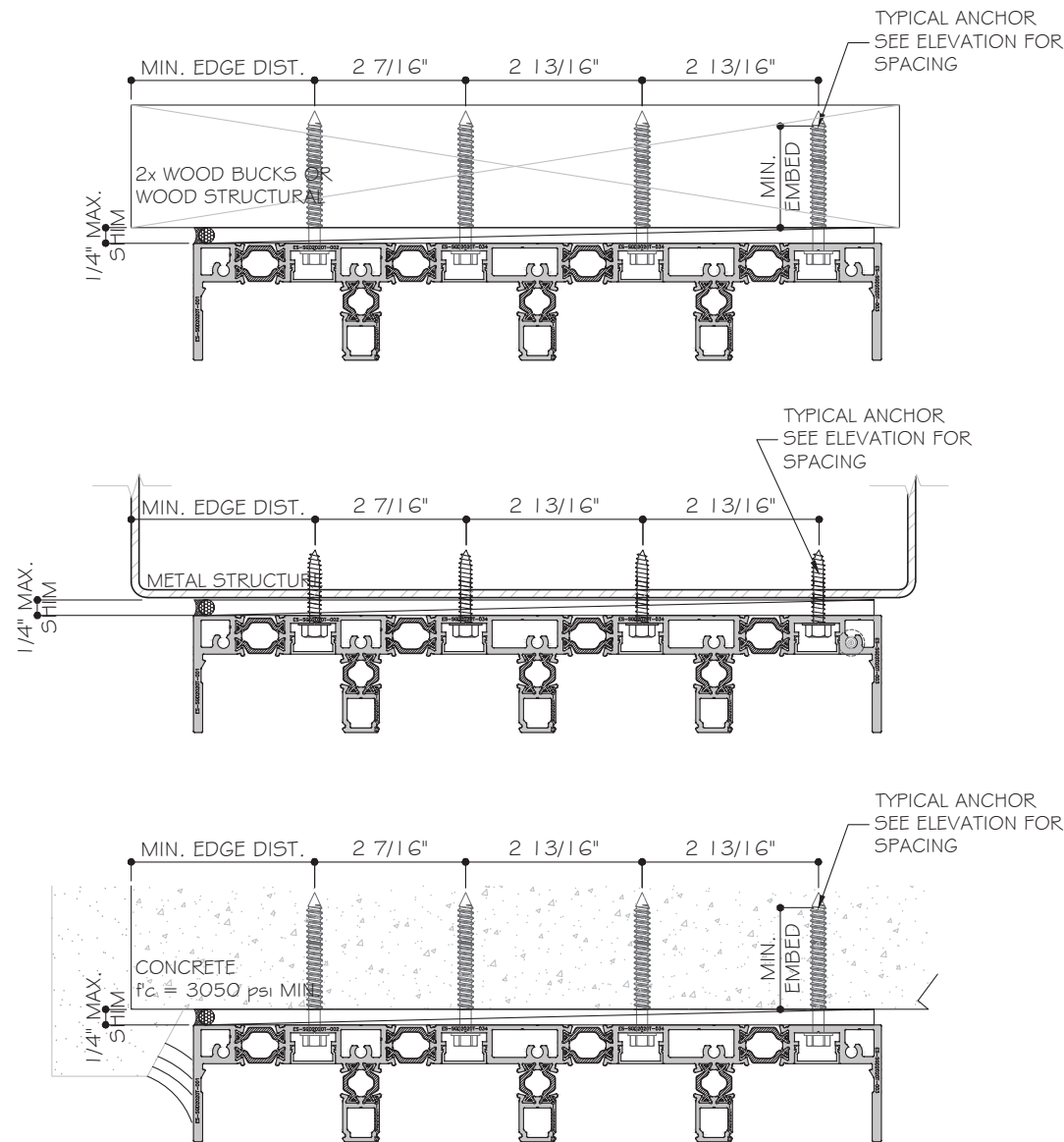
POCKET JAMB ANCHOR CHART				
ANCHOR TYPE	SUBSTRATE	PANEL SPACING	SPACING	Pd(Psf)
A	WOOD	48	6	105
		54	6	105
		60	6	105
B	CONCRETE	48	12	90.2
		54	12	80.2
		60	12	72.2
B	CONCRETE	54	8	105
		60	8	105
B	GROUT FILLED BLOCK	48	8	105
		54	8	104
		60	8	93.6
C	ALUM.	54	12	105
		60	12	102.1
C	STEEL	60	12	103.7



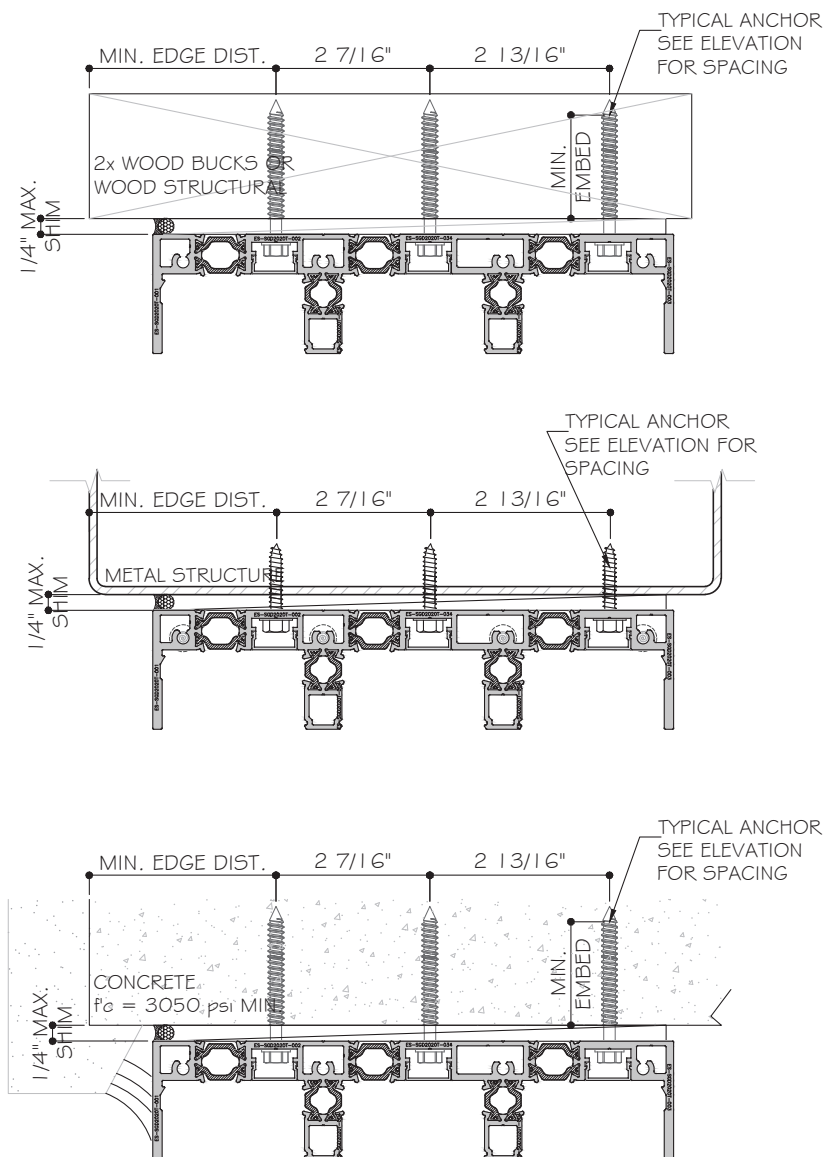
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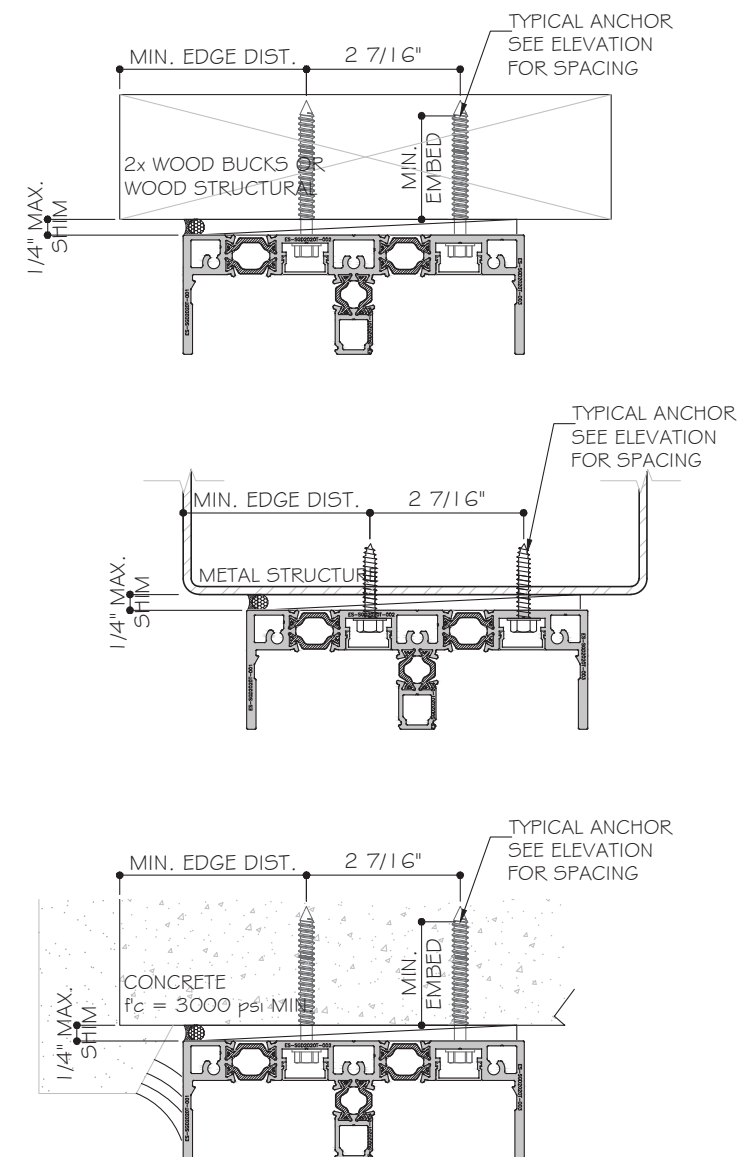
ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)	revision	Description
	James	Drawn By
	08.29.2024	Date
	Rev	No.
Drawn Date 08.29.2024	Scale	
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J2		
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4 TRACK SGD



3 TRACK SGD



2 TRACK SGD

TYPICAL ANCHOR TYPES @ HEAD & SILL:

TYPE "A": 1/4" ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)
1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
OR THRU. WOOD INTO CONCRETE W/ 1 3/4" MIN. EMBEDMENT.

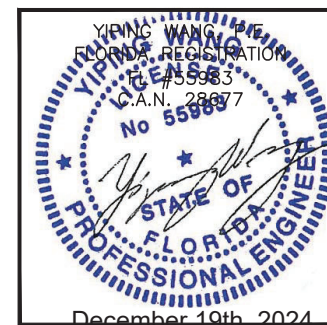
TYPE "B": 1/4" ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)
1 3/4" MIN. EMBED DIRECTLY INTO $f'_c = 3050$ psi MIN. CONCRETE.

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO METAL STRUCTURE
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. ($F_y = 36$ KSI, MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

TYPICAL ANCHOR SPACING: 3" O.C.
MIN. EDGE DISTANCE:
INTO CONCRETE: 2 1/2" MIN.
INTO WOOD: 1" MIN.
INTO METAL: 1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3050$ psi MIN.
WOOD: SG=0.55 MIN.

NOTE: METAL STRUCTURES AND WOOD BUCKS NOT BY ES WINDOWS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN THE IMPOSED LOADS FROM SLIDING GLASS DOOR.



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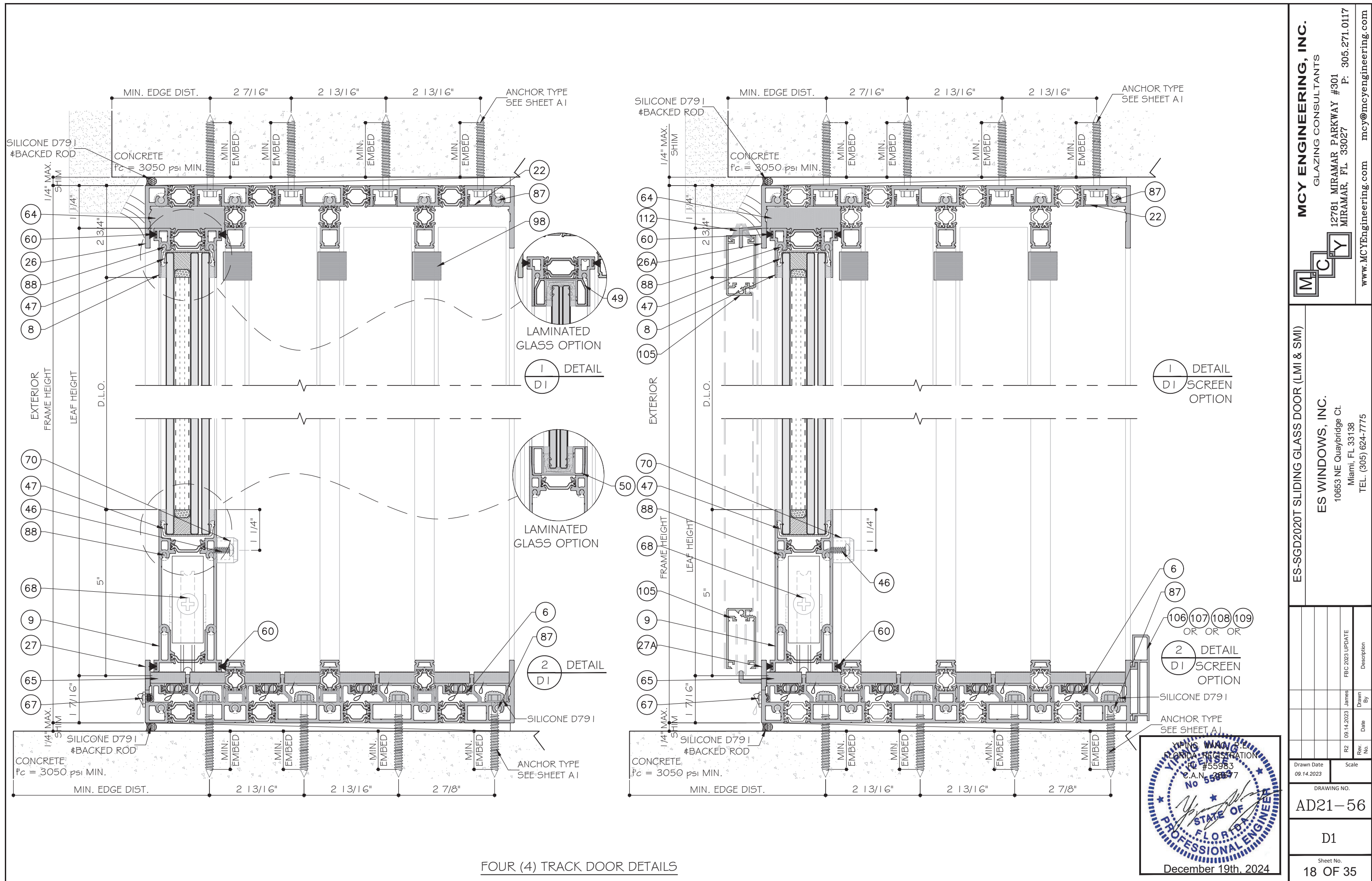
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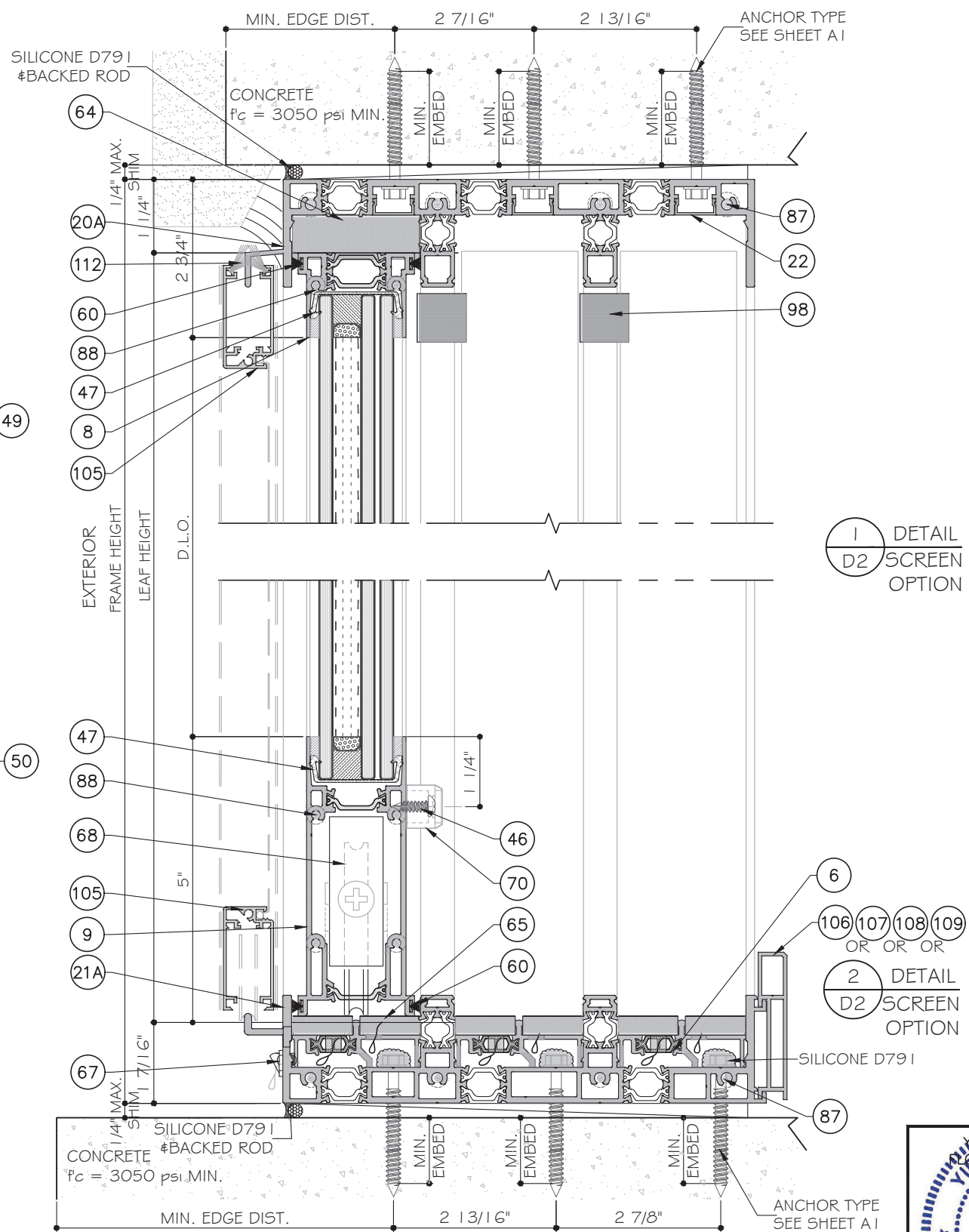
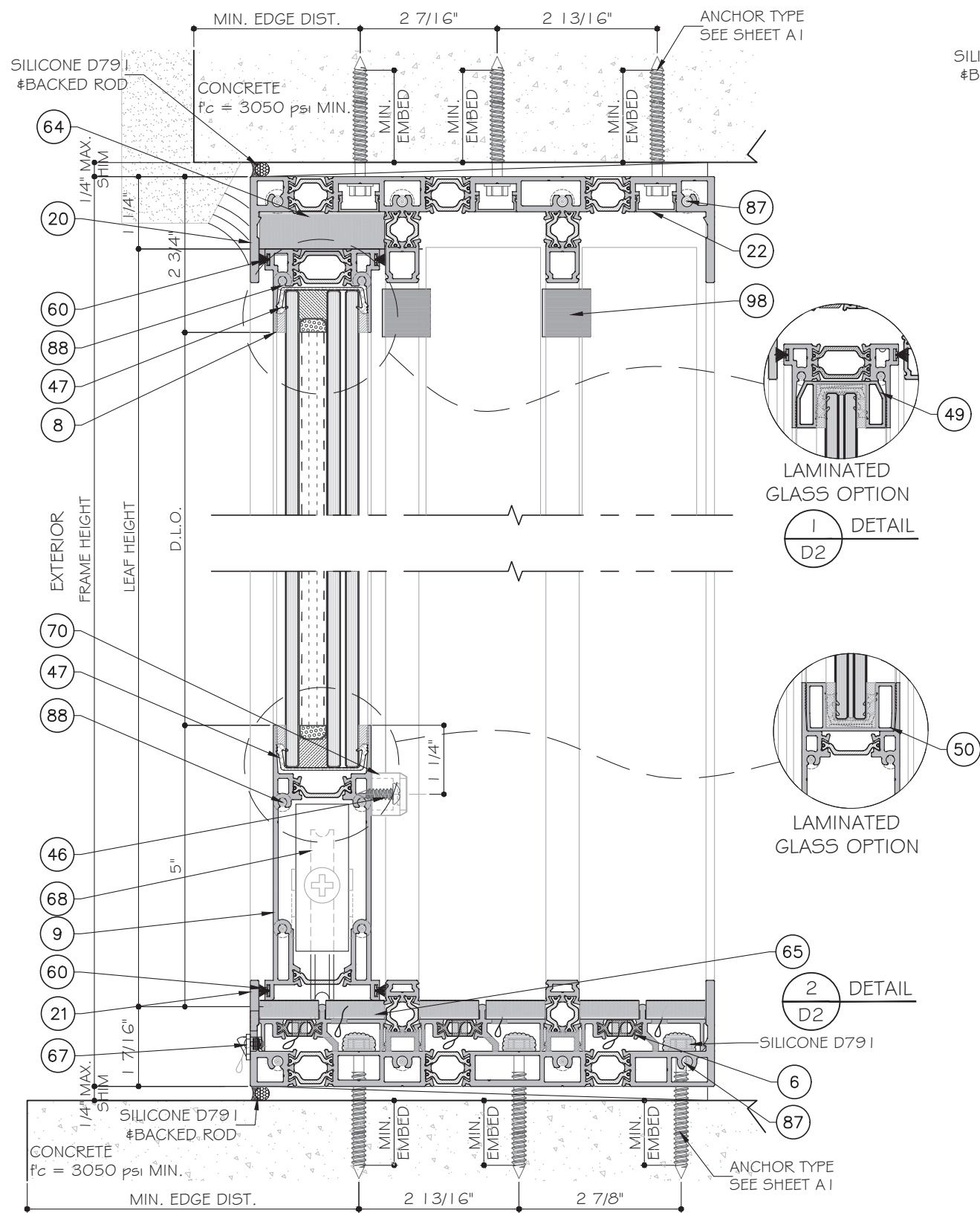
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DRAWING NO. AD21-56

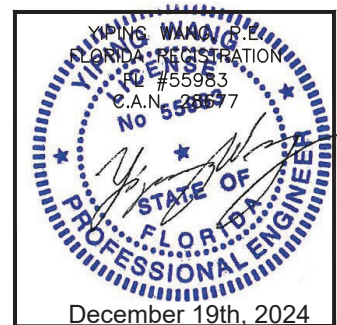
A1

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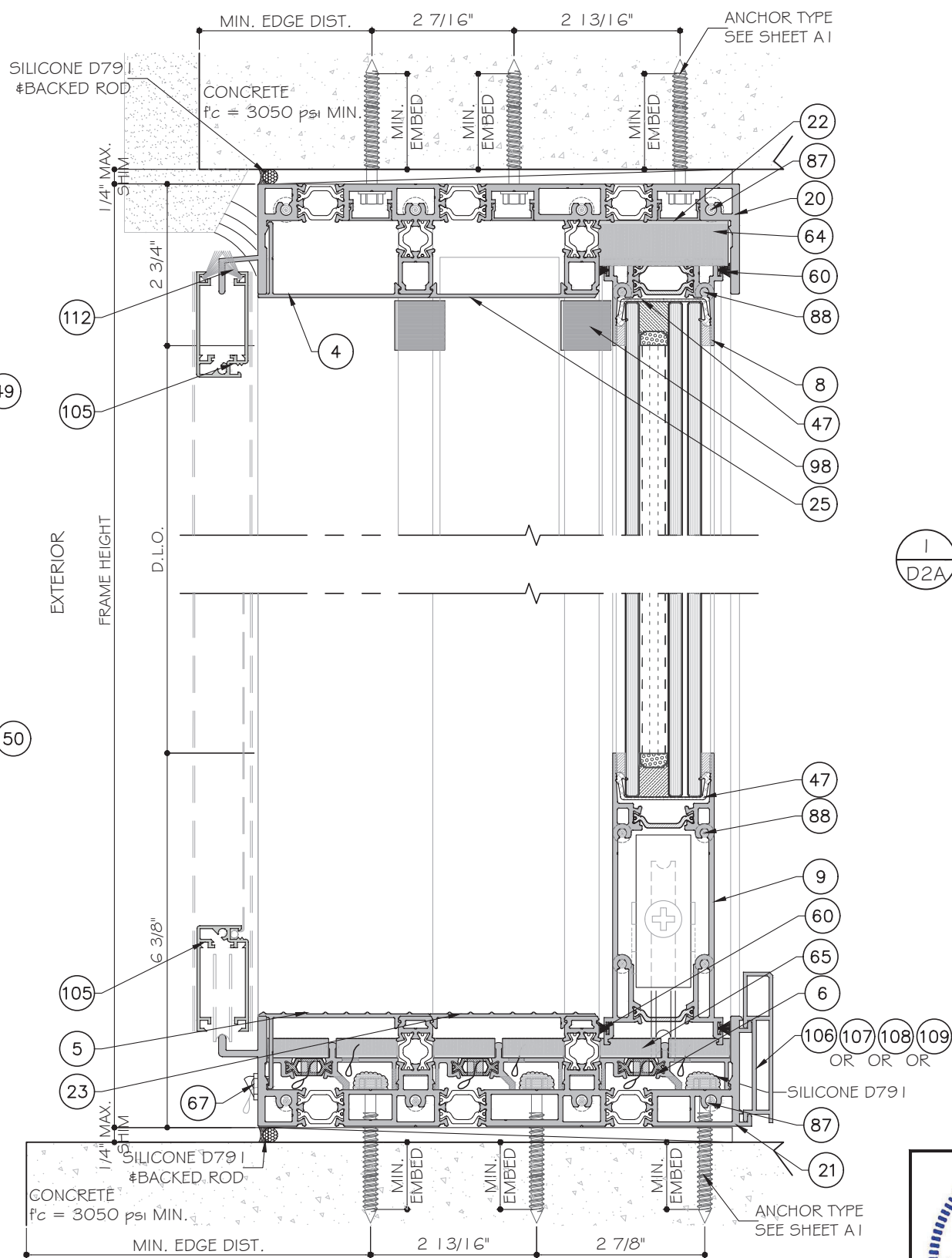
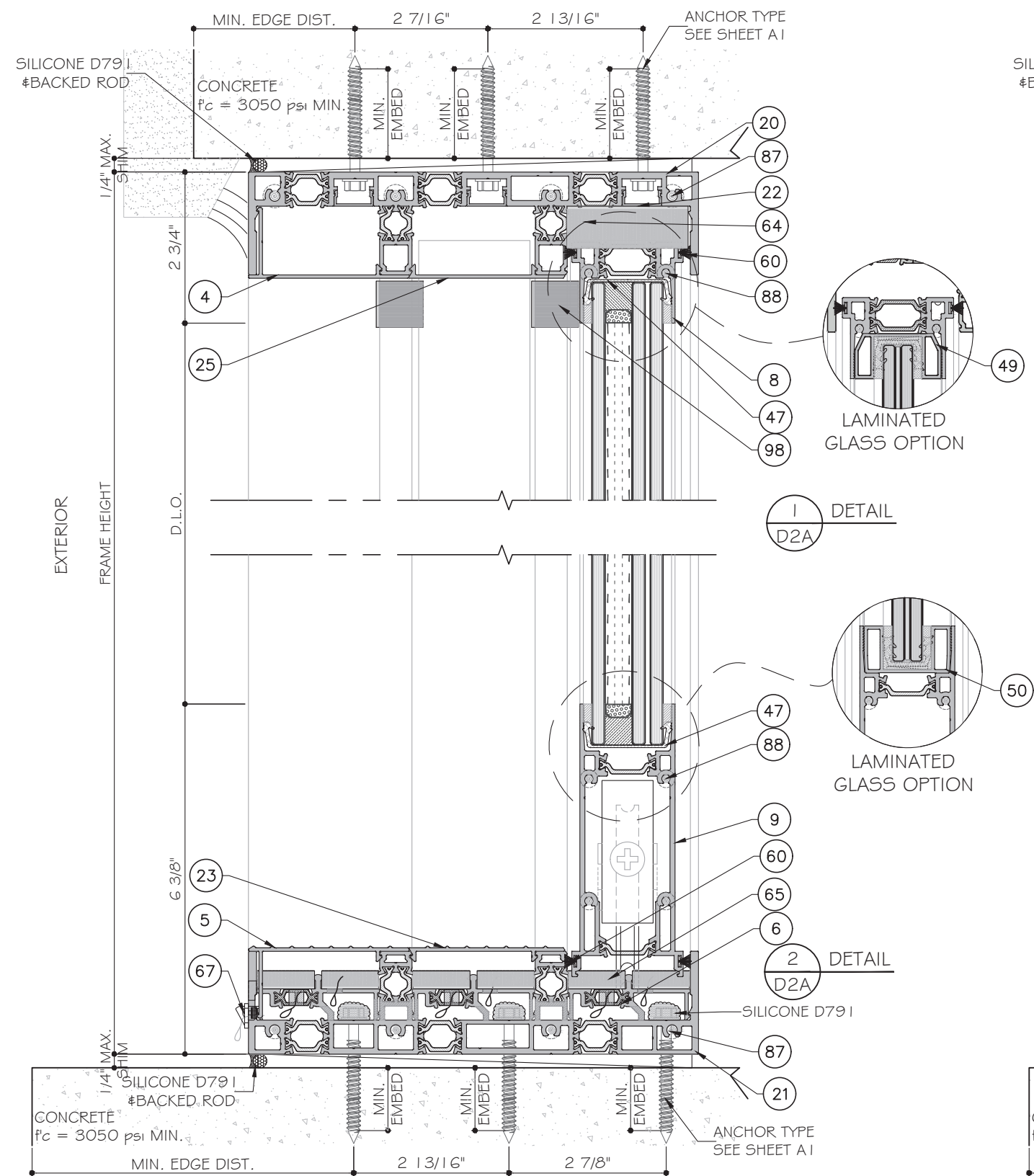




THREE (3) TRACK DOOR DETAILS

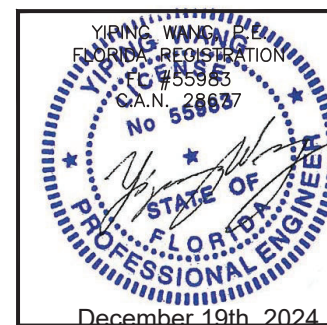


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Drawn Date 09.14.2023	Scale R2
Drawn By James	Description FBC 2023 UPDATE
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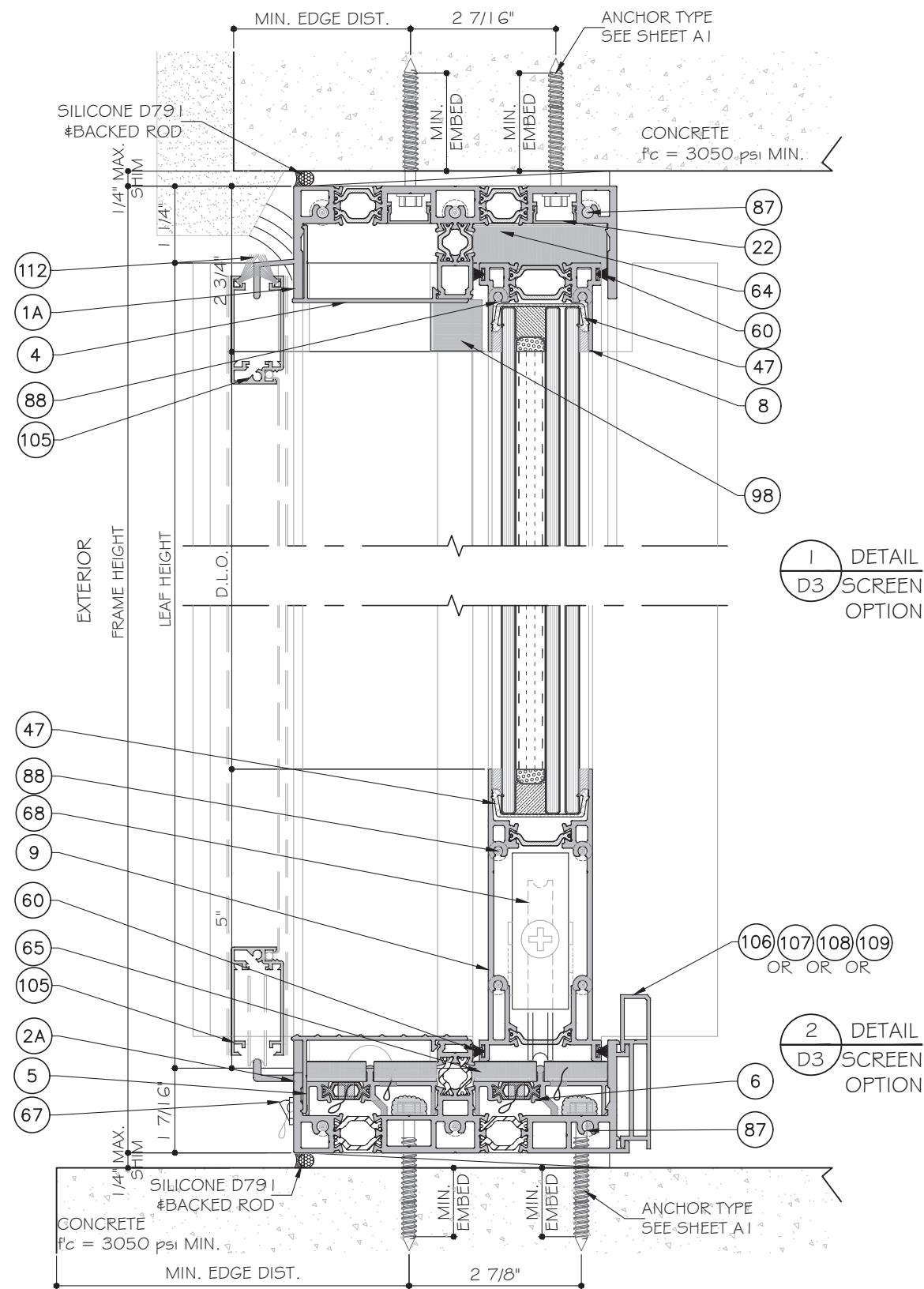
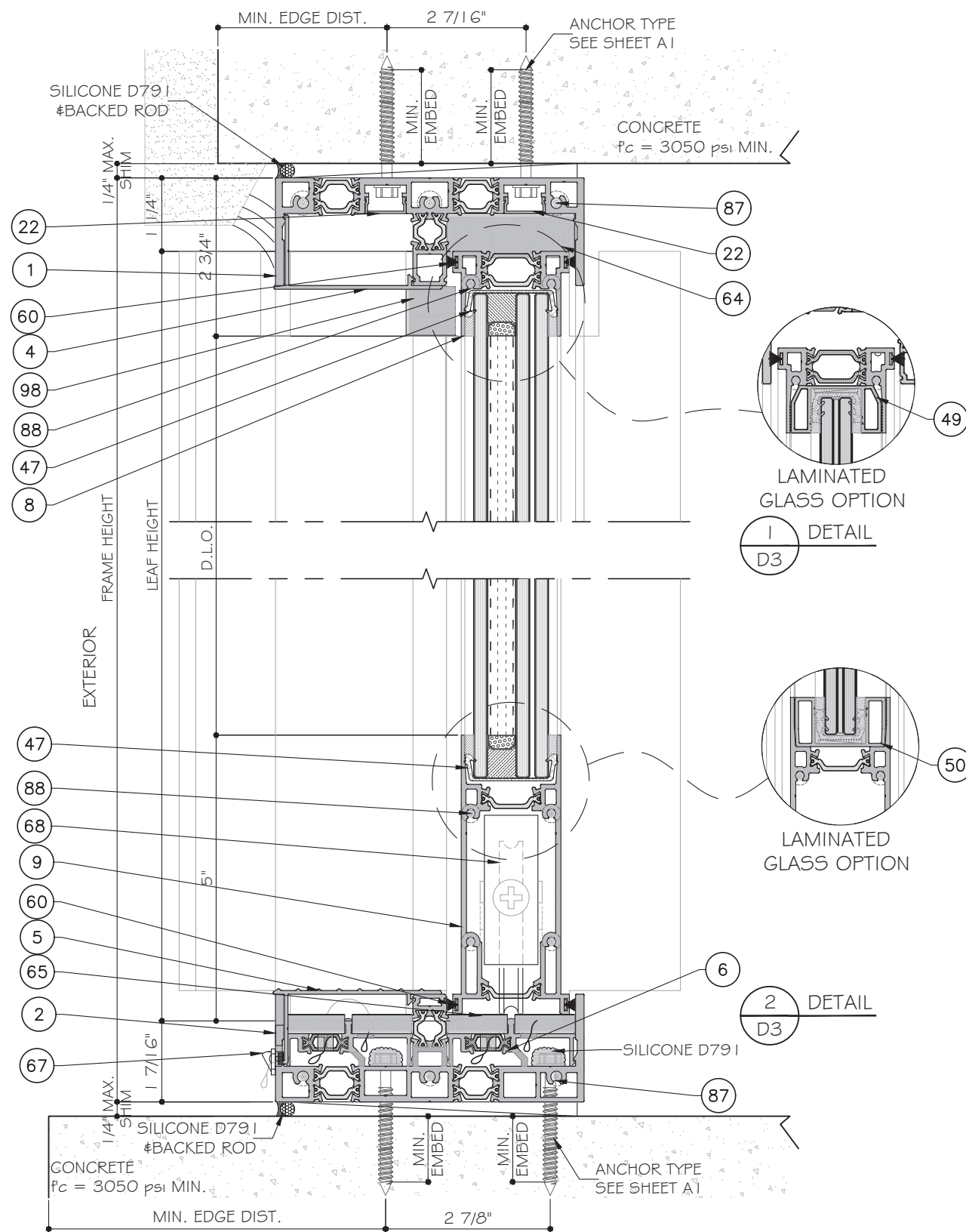
1
D2A
DETAIL
SCREEN
OPTION

2
D2A
DETAIL
SCREEN
OPTION

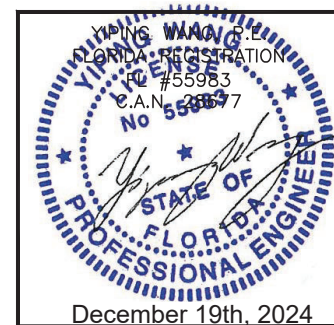


THREE (3) TRACK DOOR DETAILS

Rev.	No.	Date	Drawn By	Description
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TWO (2) TRACK DOOR DETAILS



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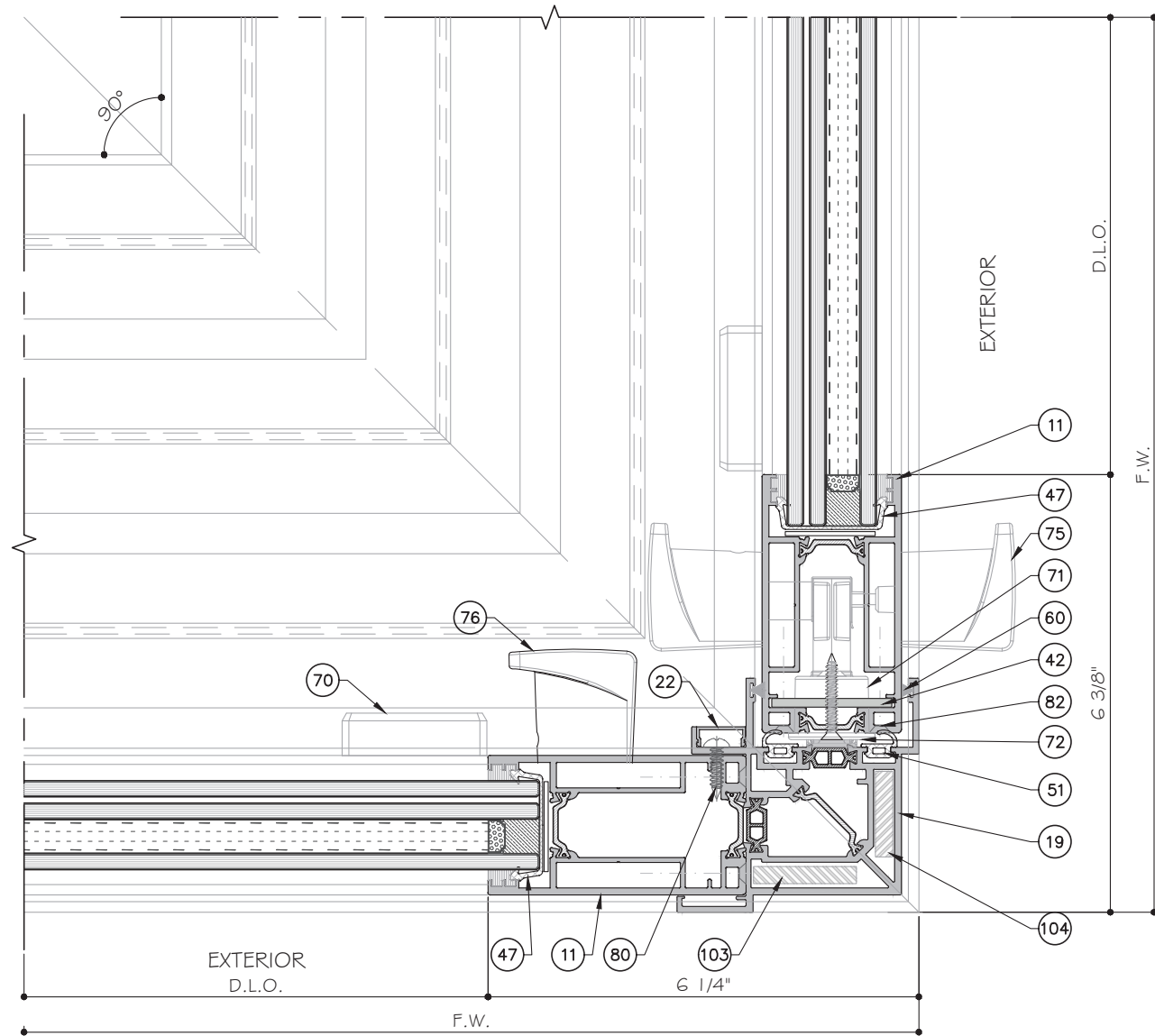
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Rev.	Date	Drawn By	Description
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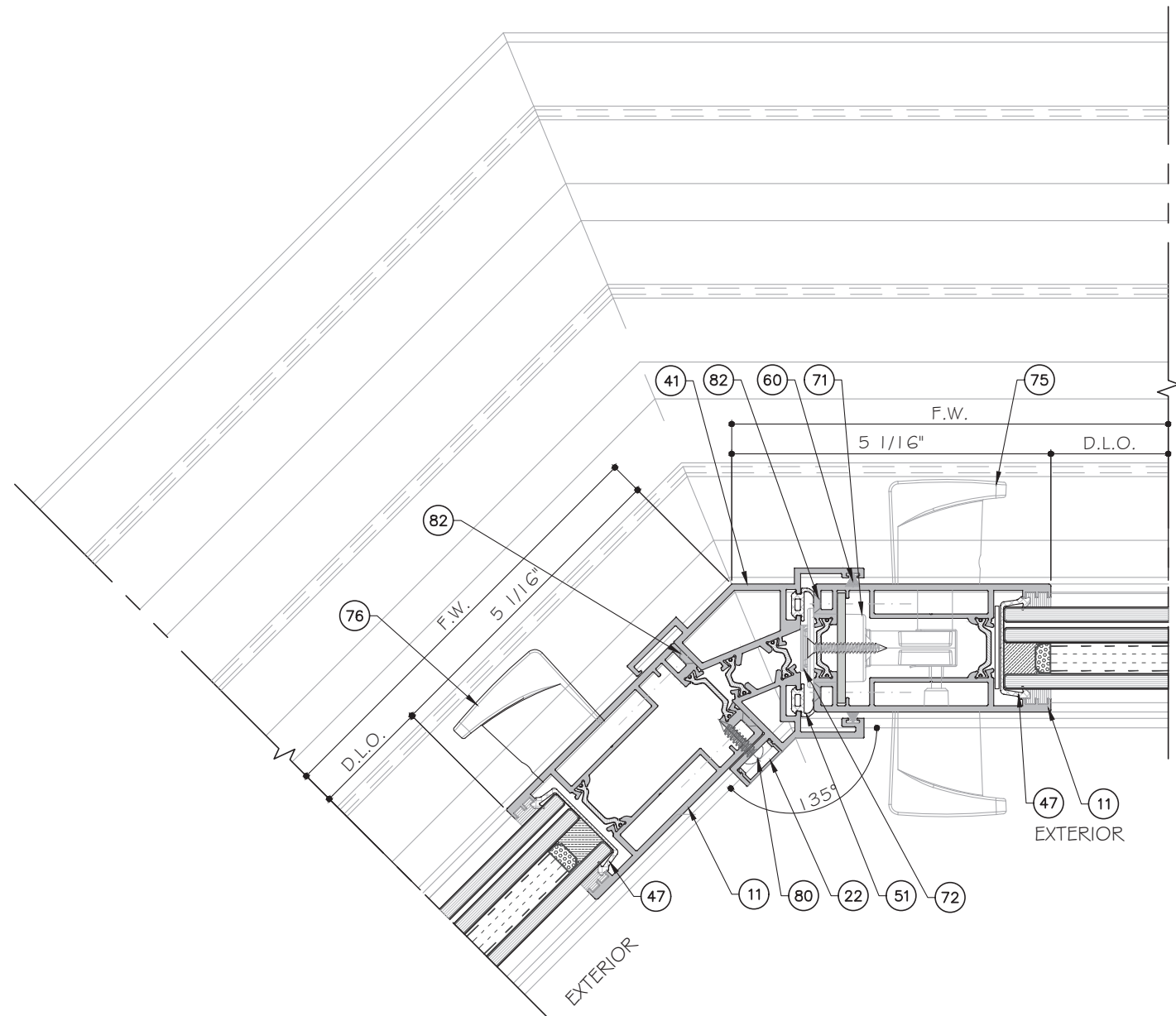
Drawn Date	Scale
09.14.2023	

DRAWING NO.
AD21-56

D3
Sheet No.
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1
D4.1
DETAIL

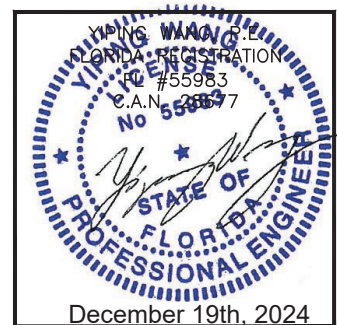


2
D4.1
DETAIL

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

CORNER DETAILS



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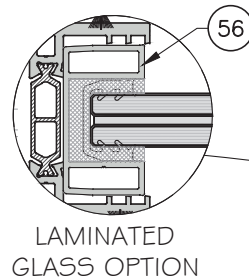
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Scale

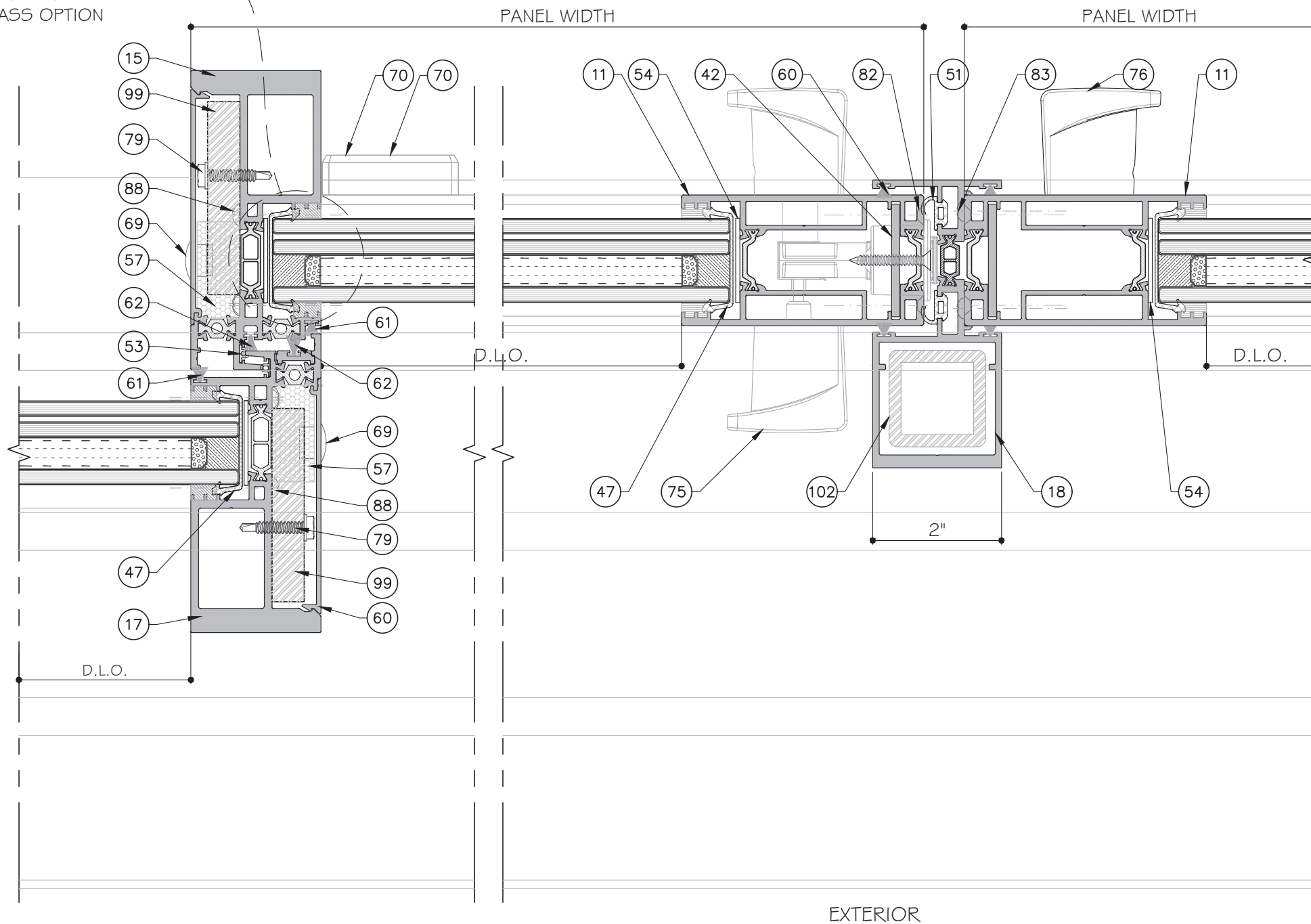
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D4.1

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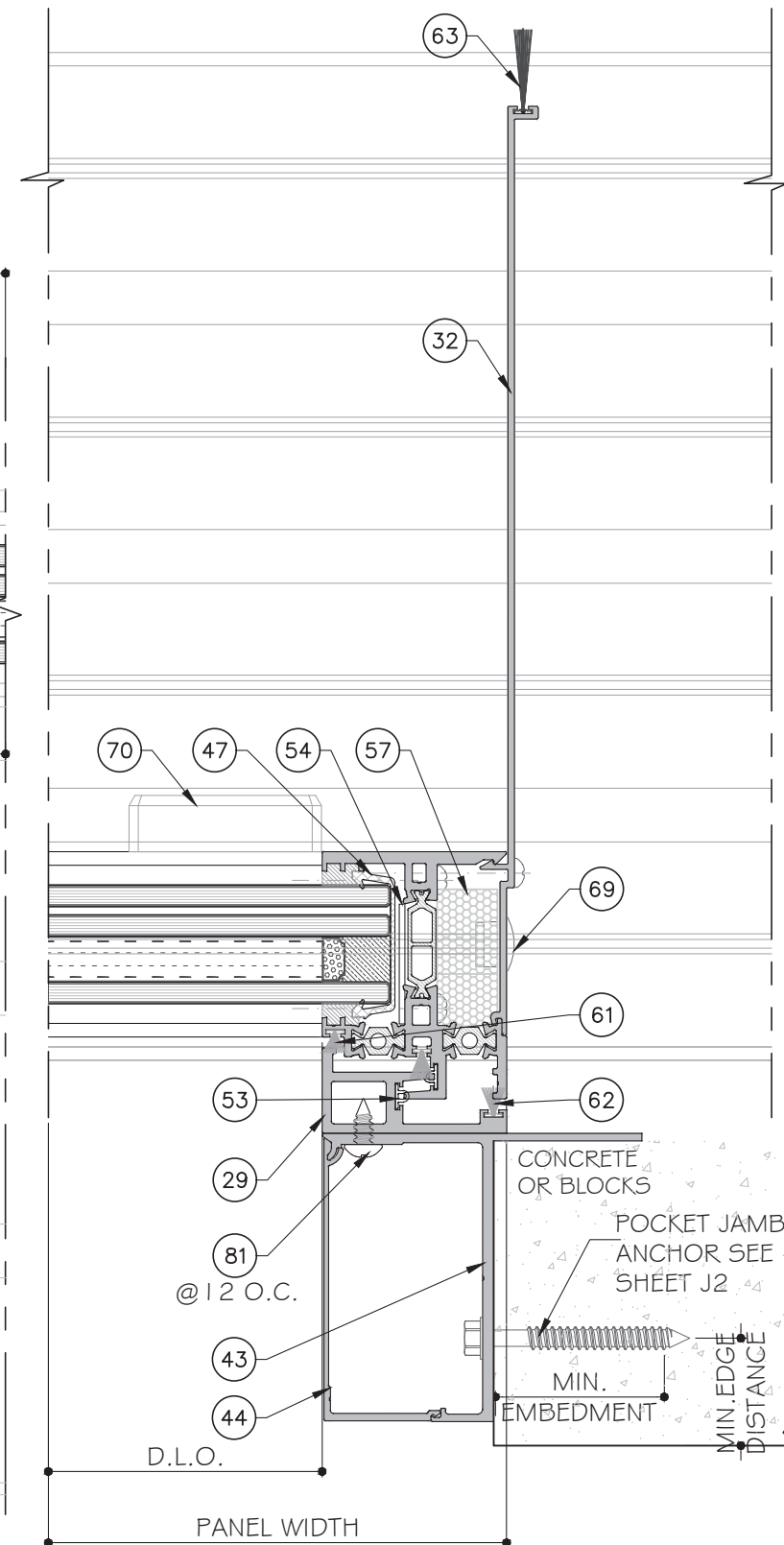
LAMINATED
GLASS OPTION



EXTERIOR

1
D5
DETAIL

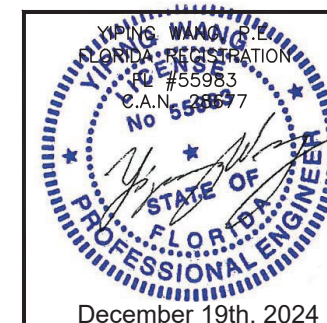
2
D5
DETAIL



3
D5
DETAIL

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4
REINFORCEMENT OPTION.

FOUR (4) TRACK DOOR DETAILS
(LEVEL 4 SHOWN)



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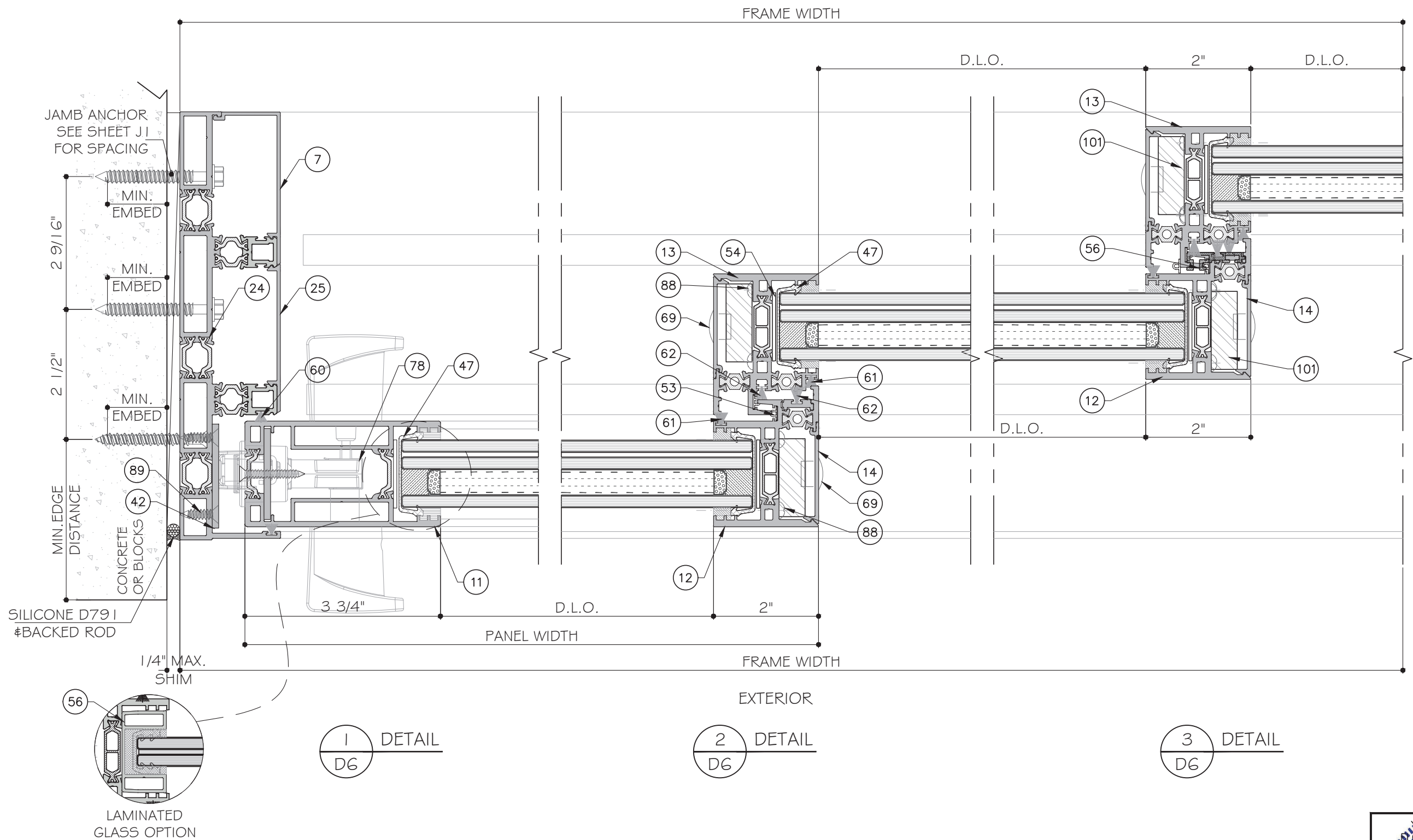
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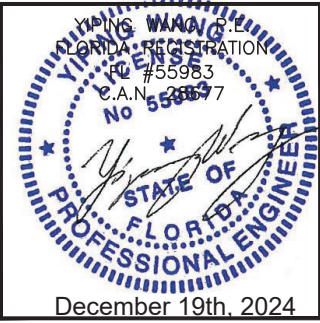
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SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

THREE (3) TRACK DOOR DETAILS (LEVEL 1 SHOWN)



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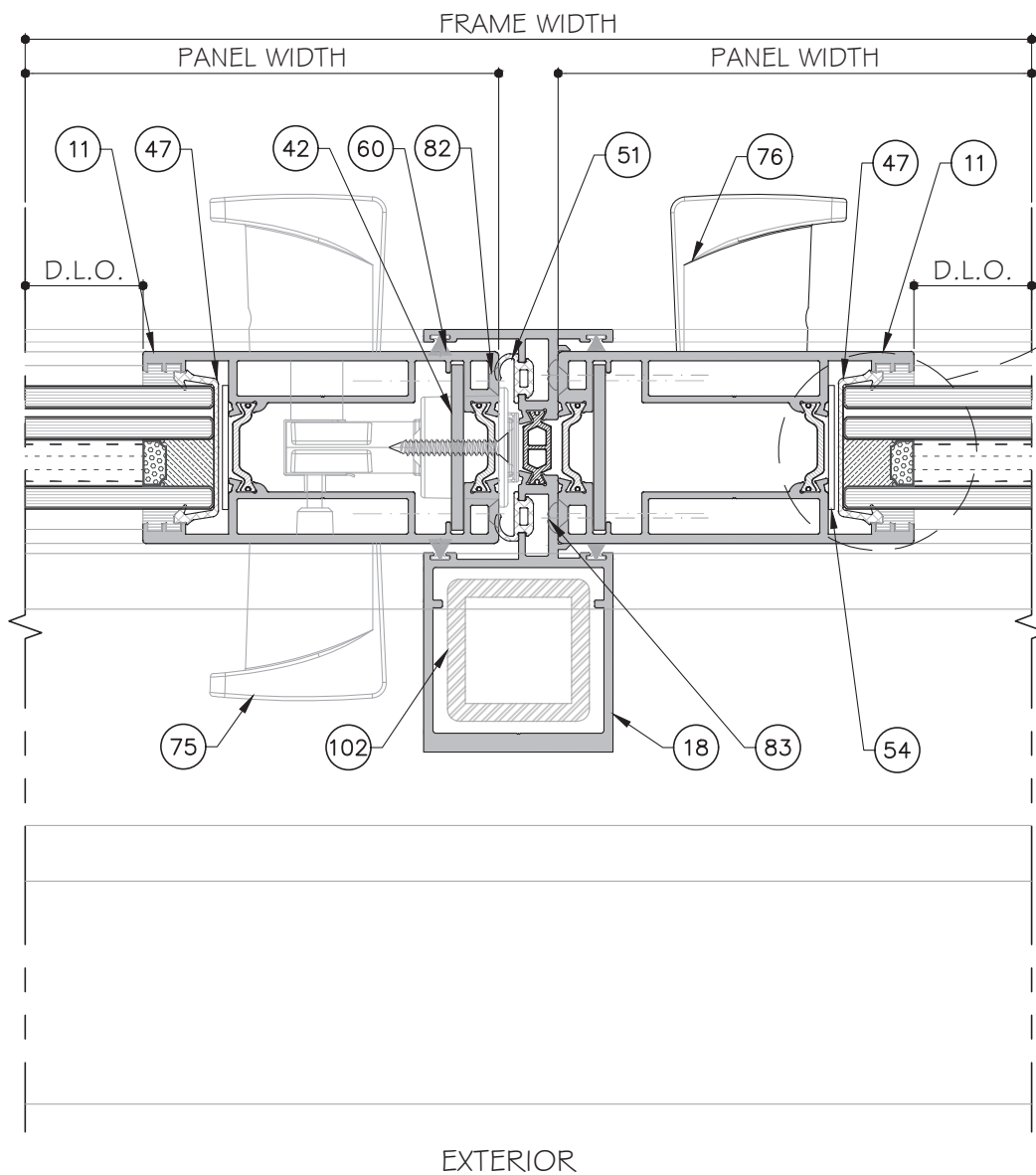
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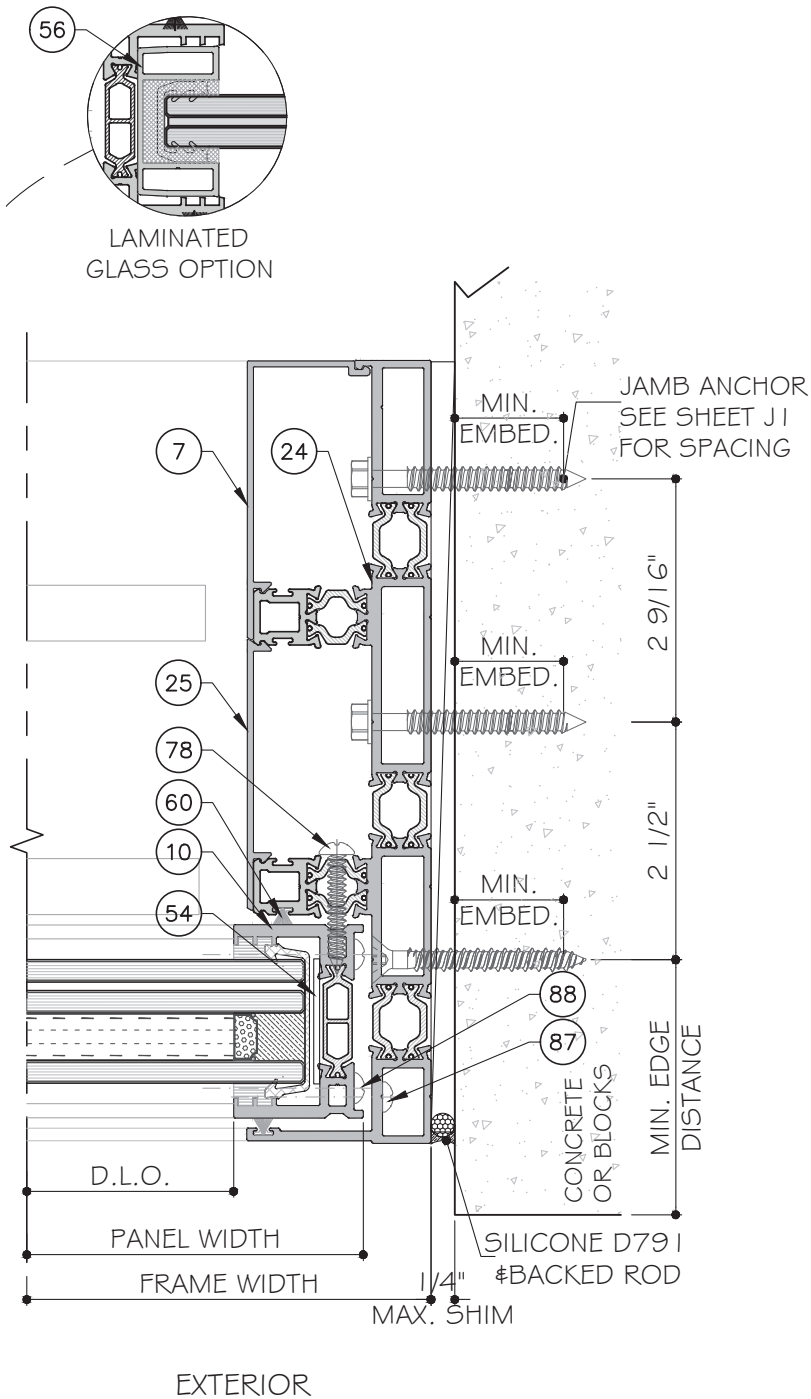
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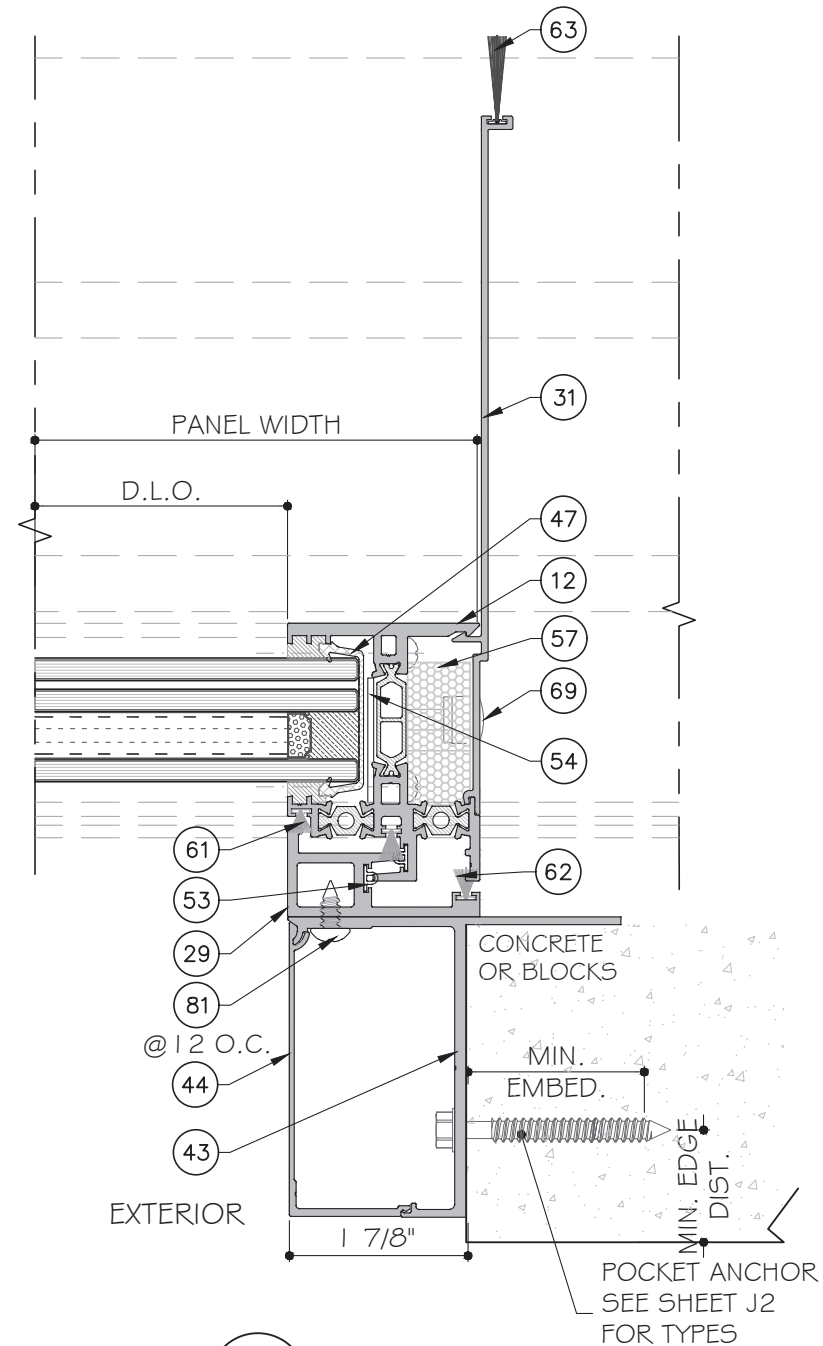
1
D7

DETAIL



2
D7

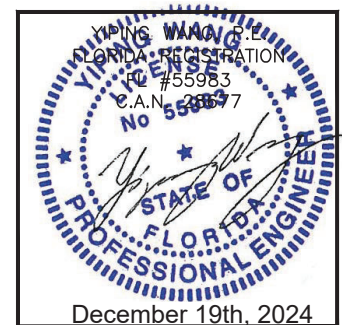
DETAIL



3
D7

DETAIL

THREE (3) TRACK DOOR DETAILS



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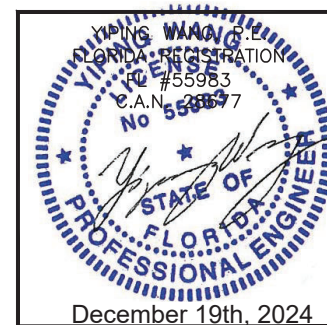
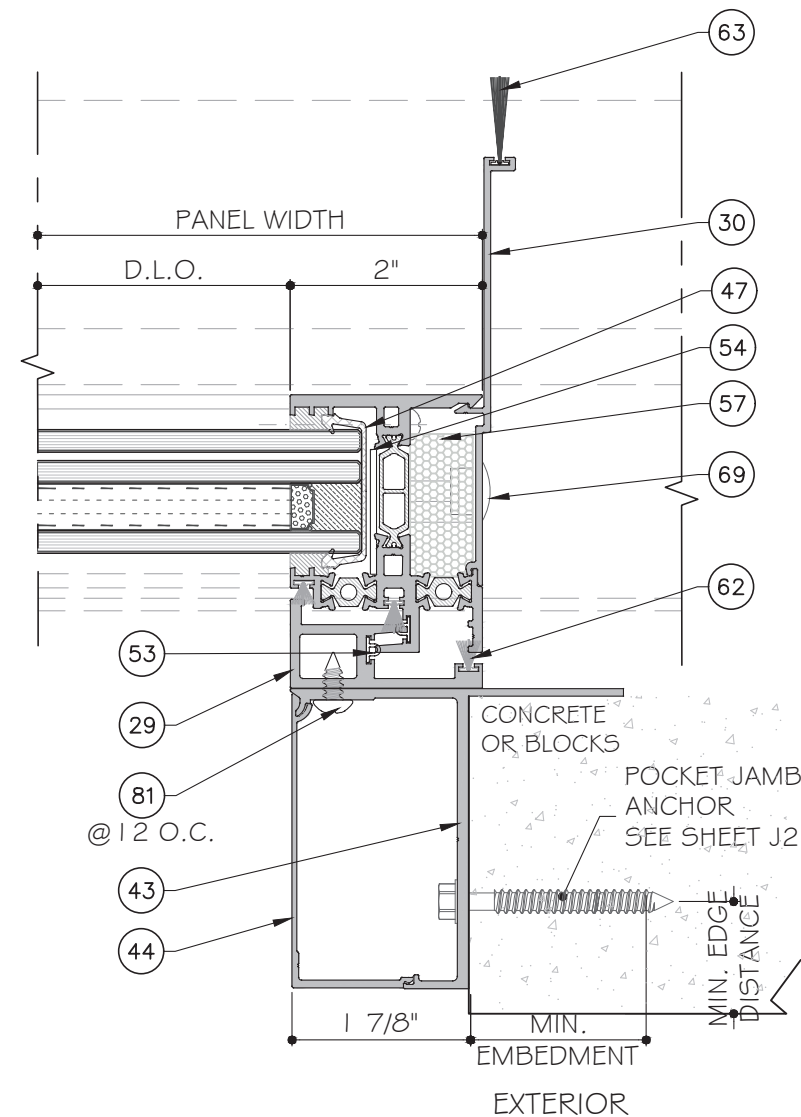
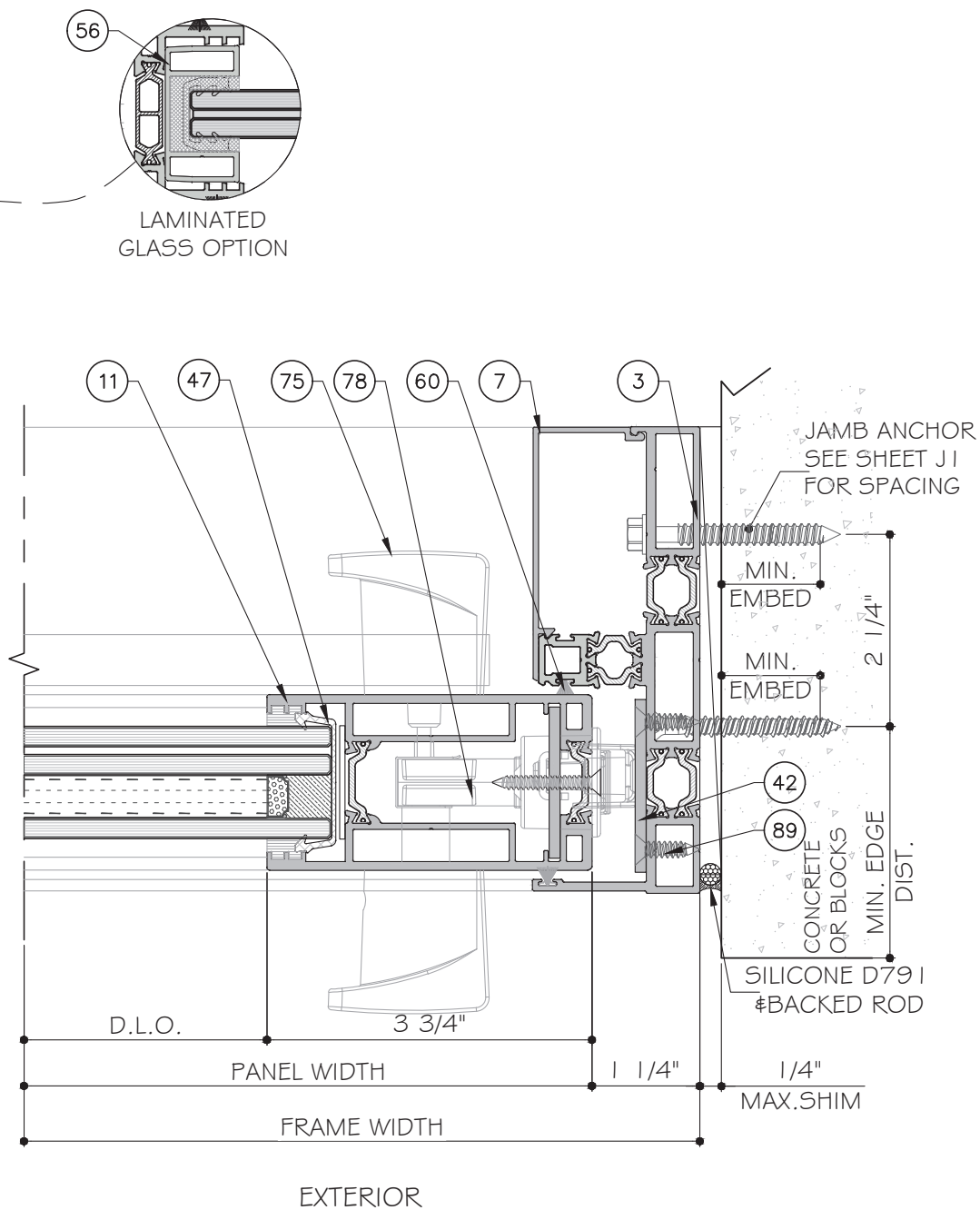
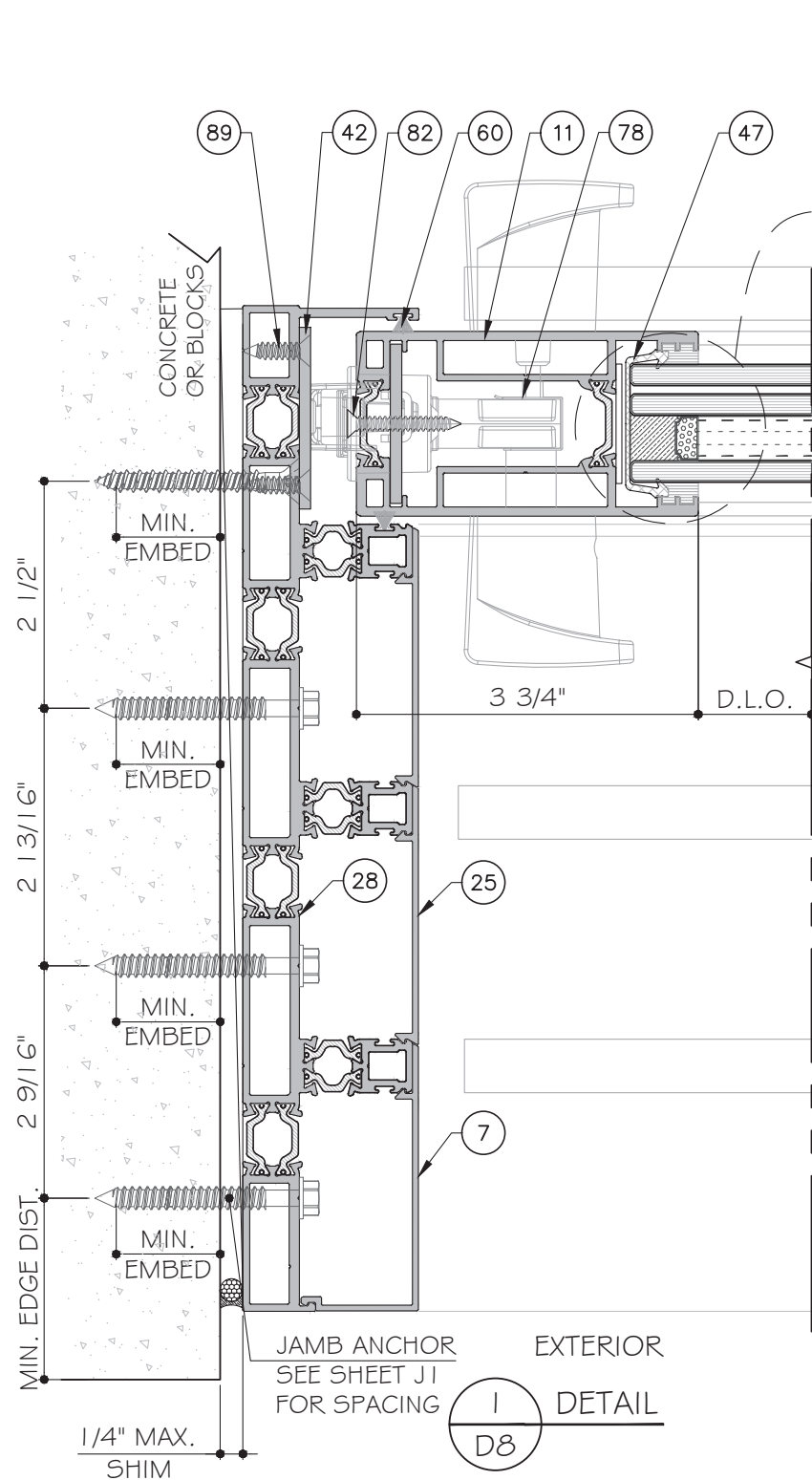
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R2	09.14.2023	James	FBC 2023 UPDATE

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TWO (2) TRACK DOOR DETAILS

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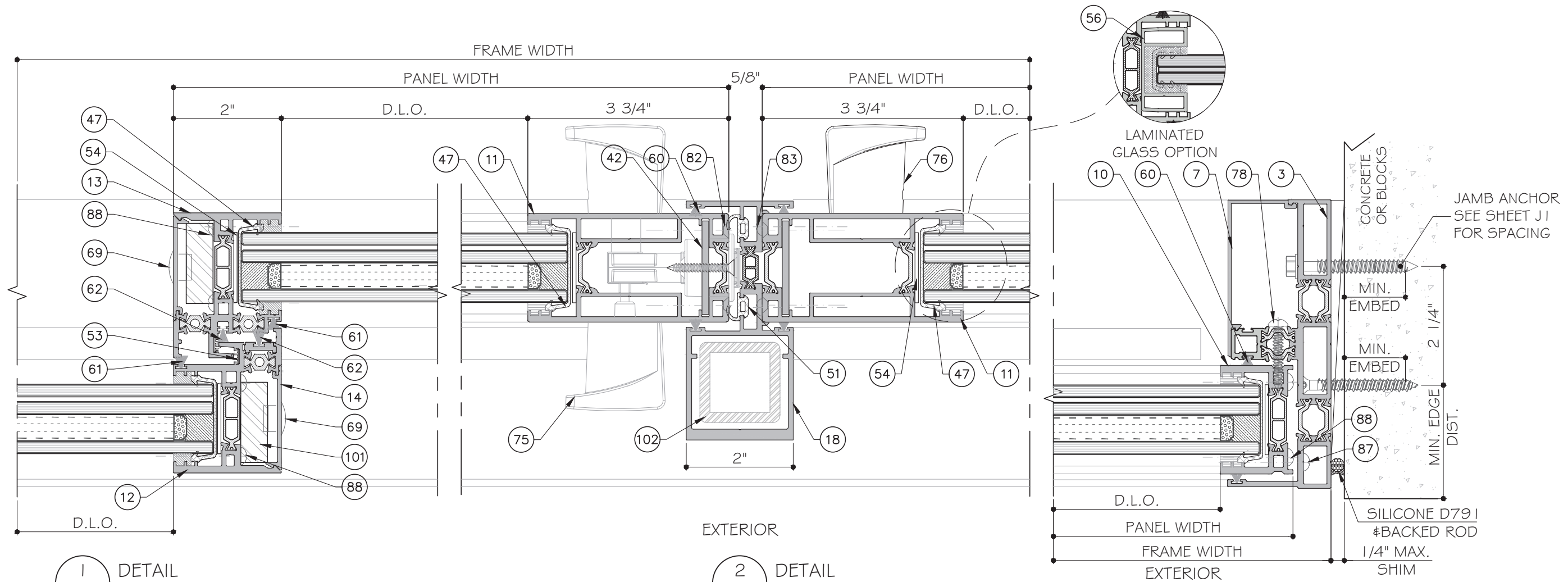
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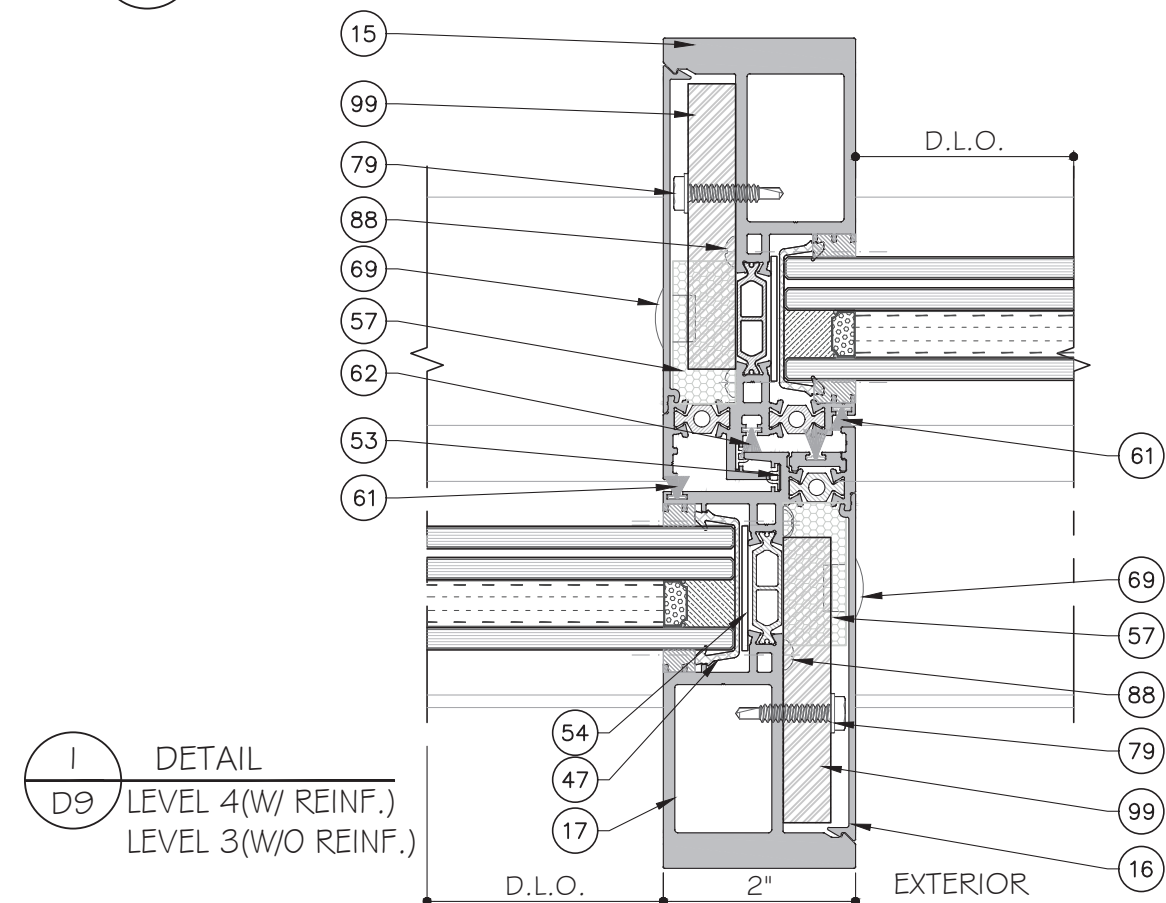
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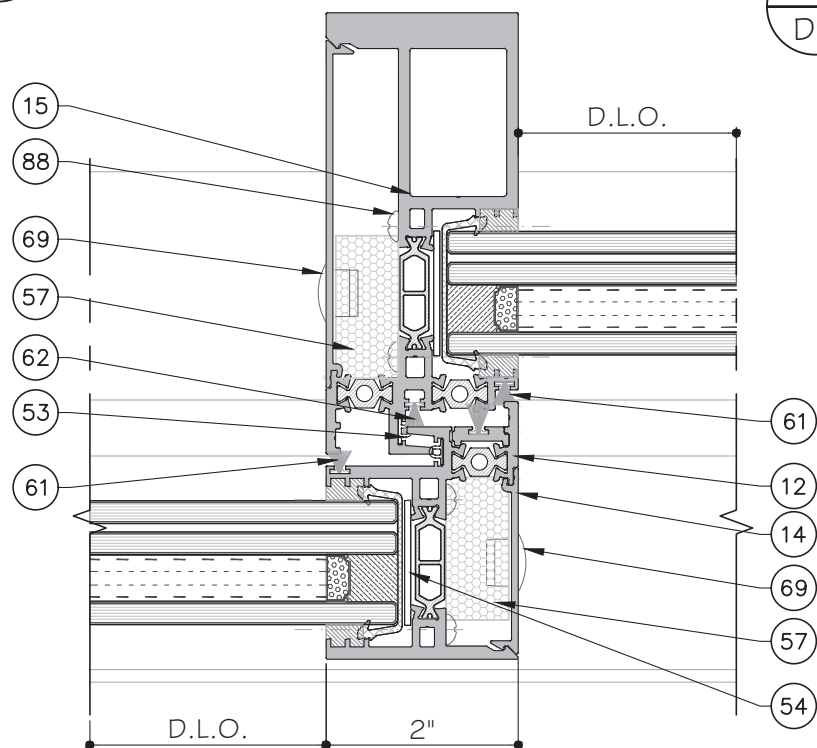
1
D9
DETAIL
LEVEL 1

2
D9
DETAIL

3
D9
DETAIL



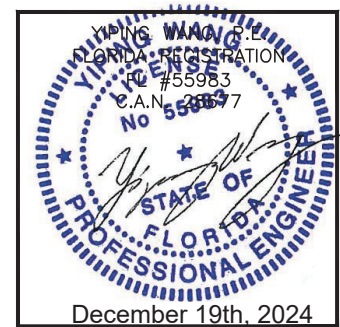
1
D9
DETAIL
LEVEL 4(W/ REINF.)
LEVEL 3(W/O REINF.)



1
D9
DETAIL
LEVEL 2

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4
REINFORCEMENT OPTION.

TWO (2) TRACK DOOR DETAILS



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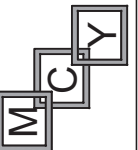
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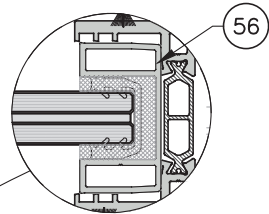
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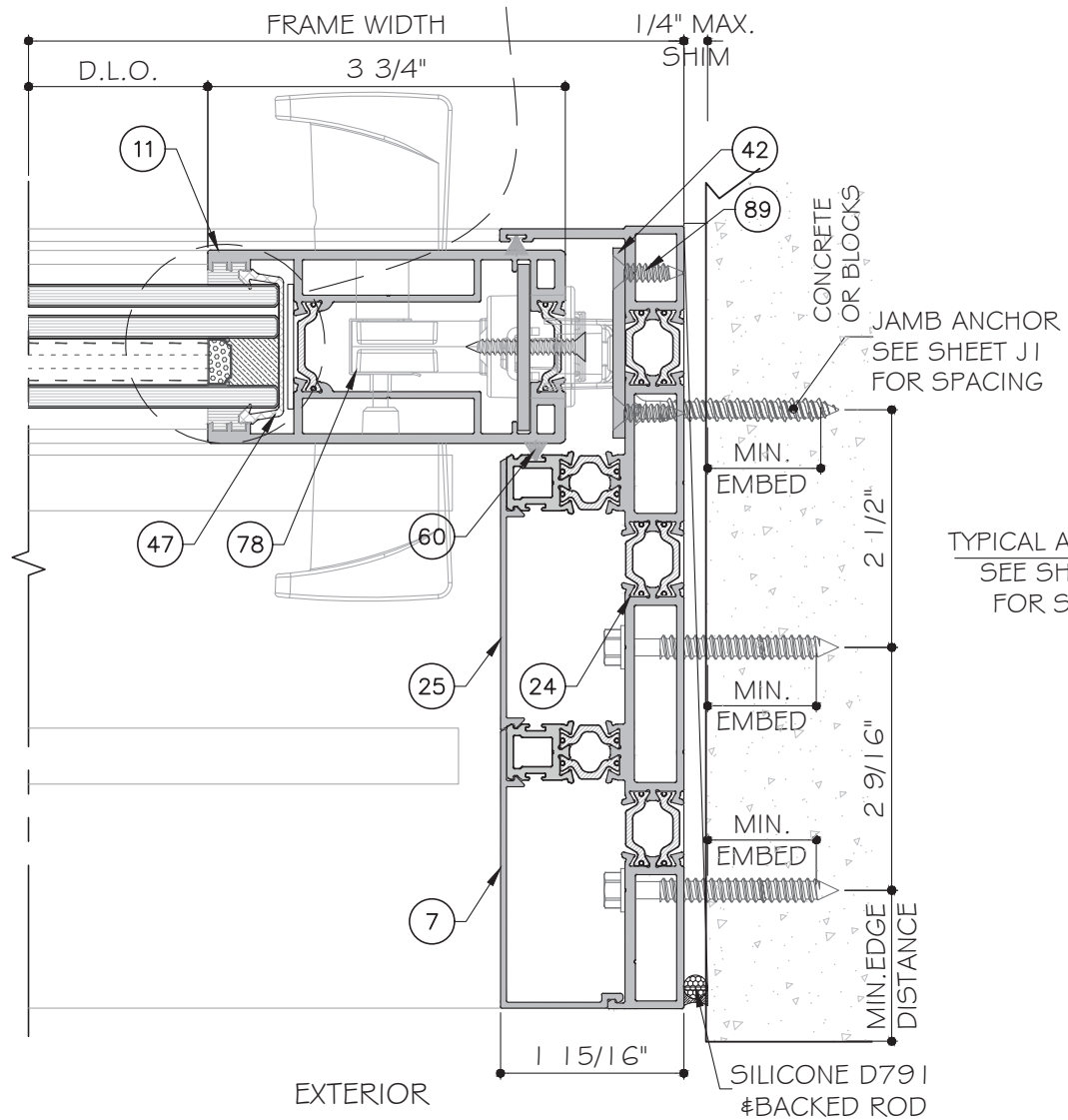
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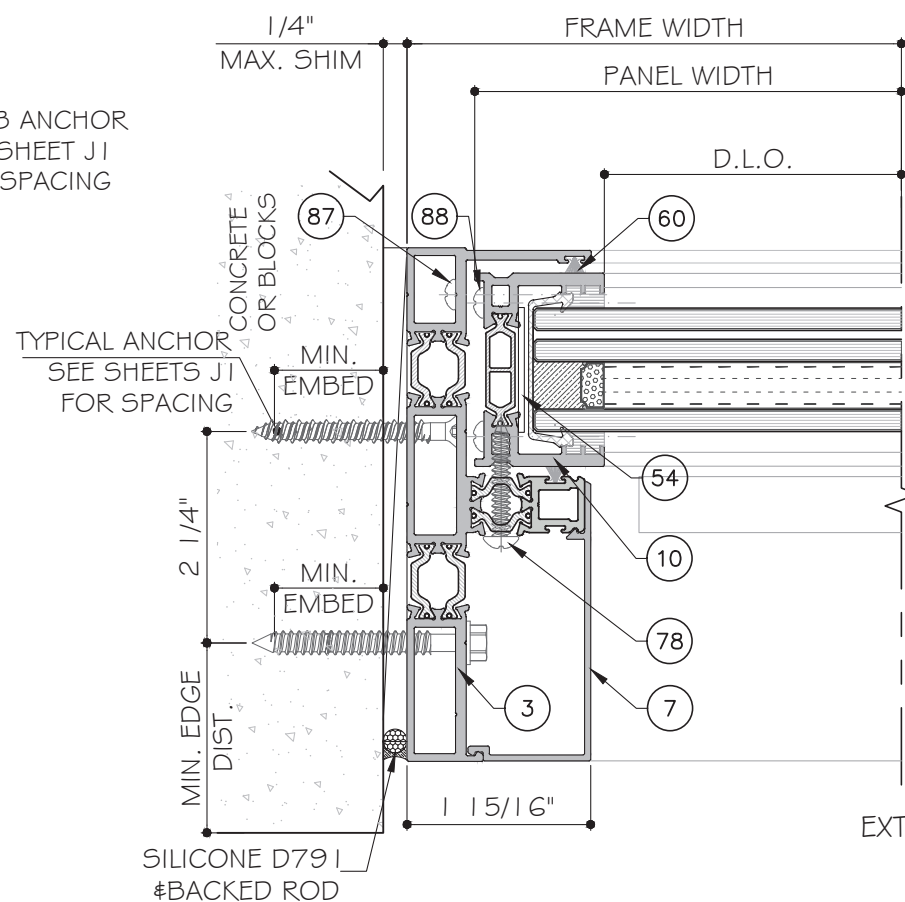


LAMINATED
GLASS OPTION



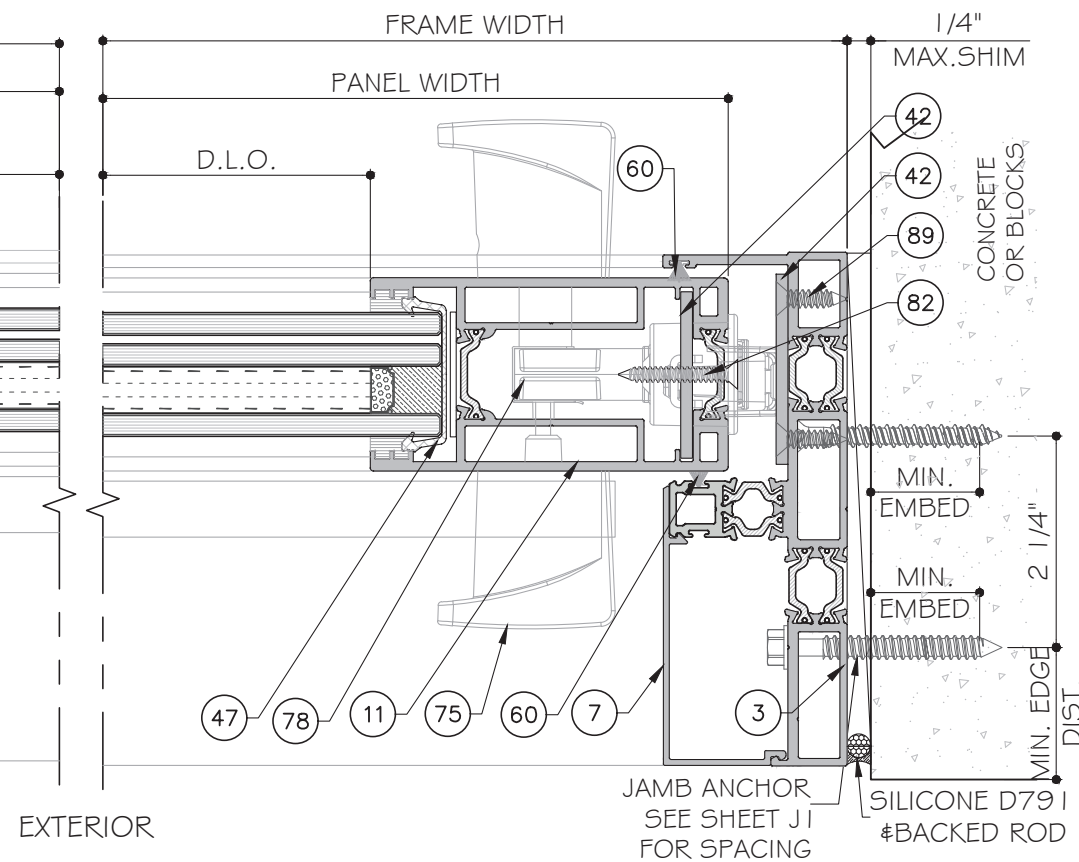
1
D10

DETAIL



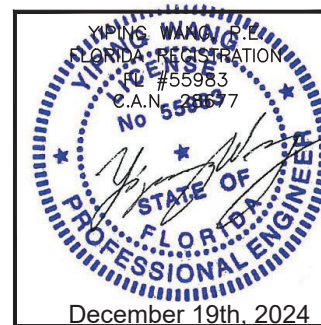
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D10

DETAIL

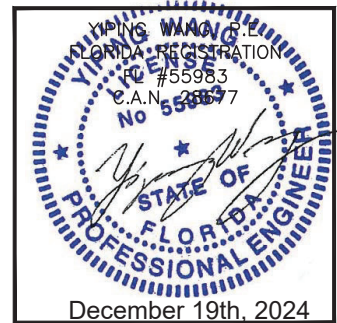
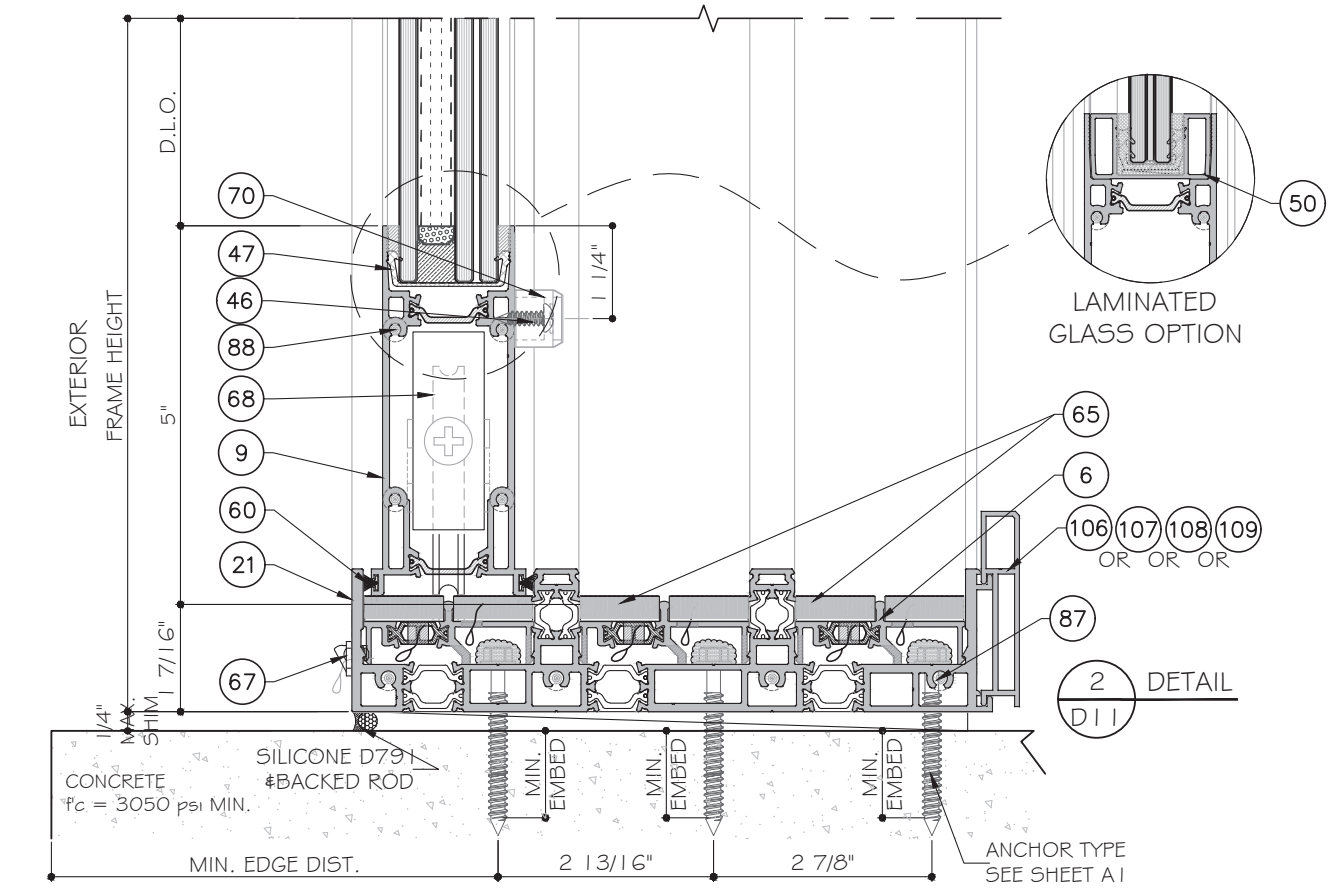
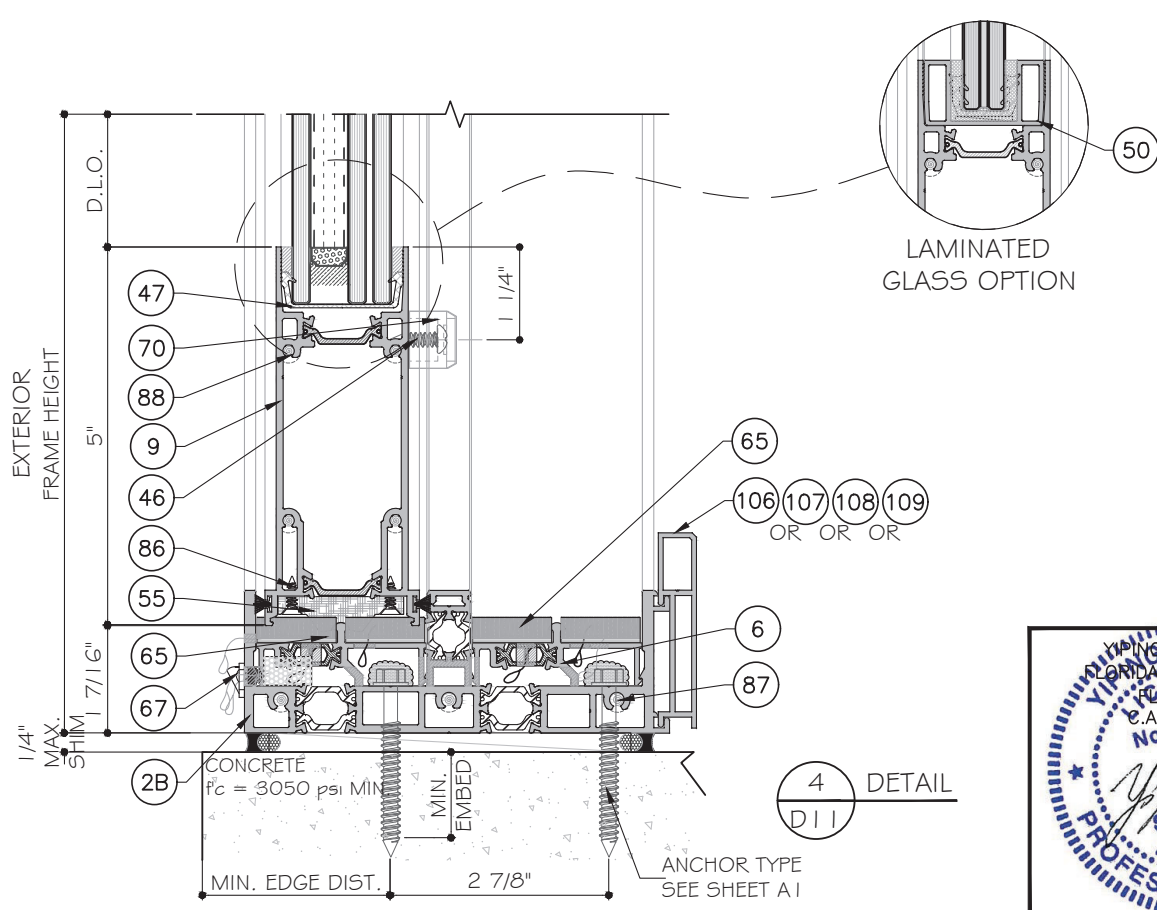
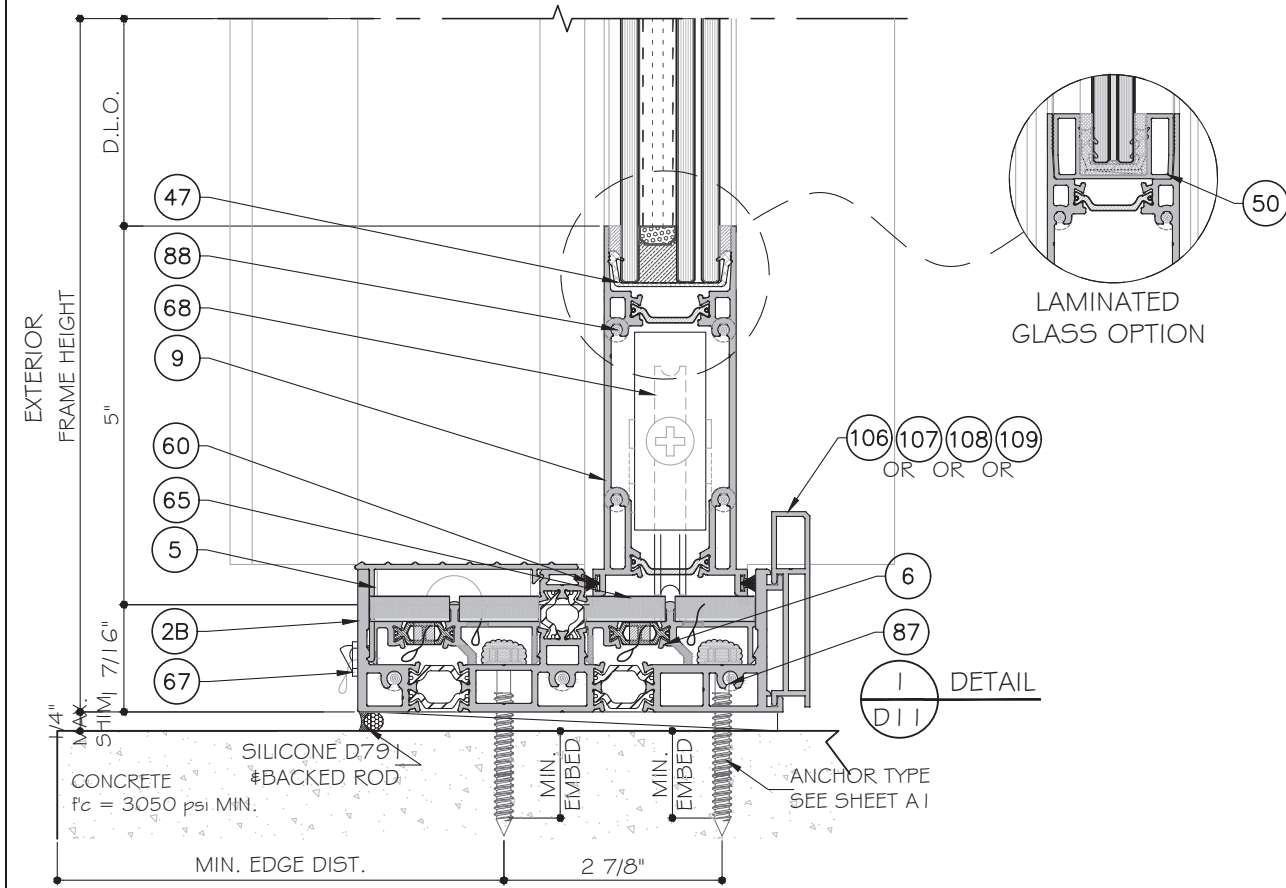
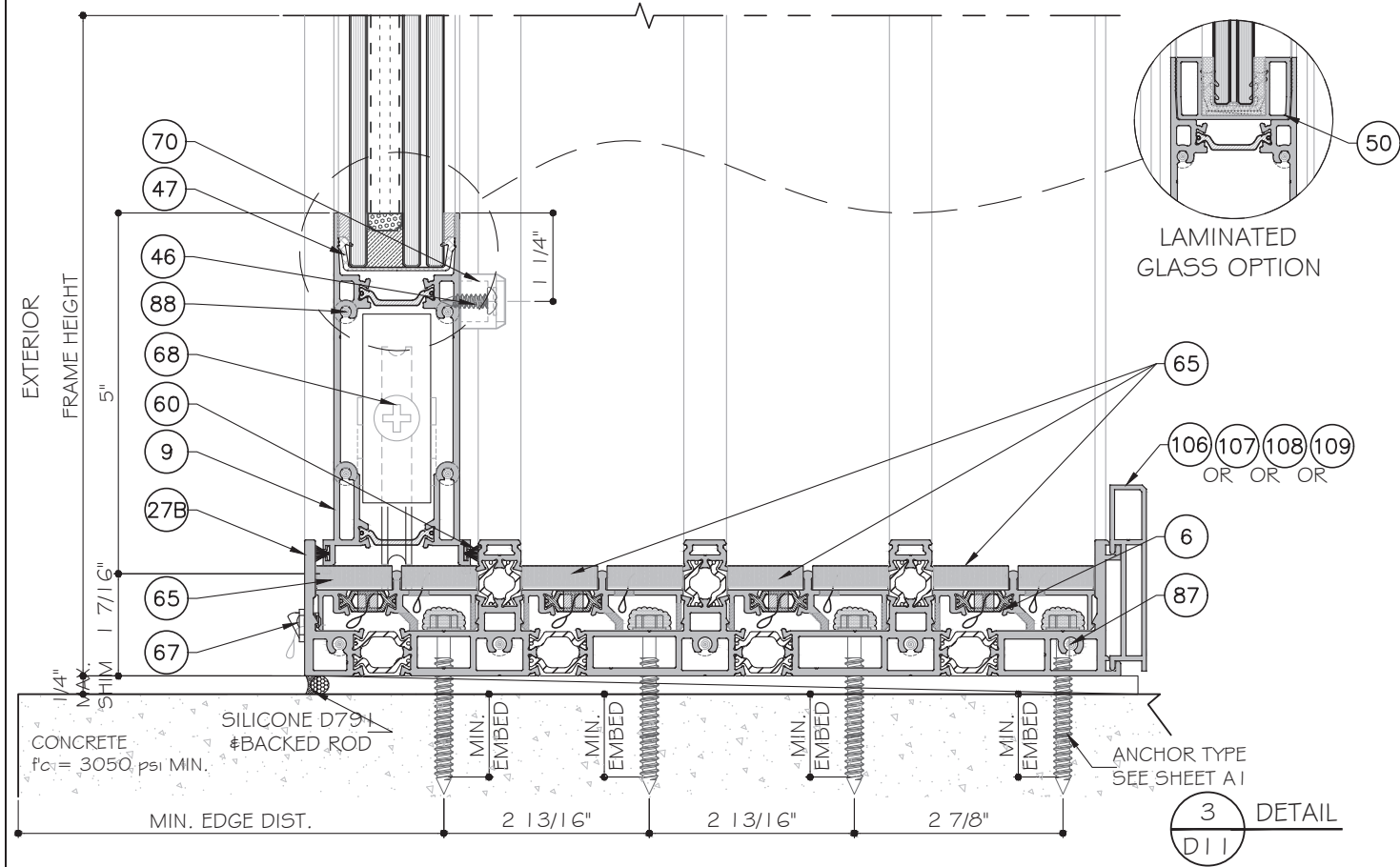


3
D10

DETAIL



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		09.14.2023	Date		
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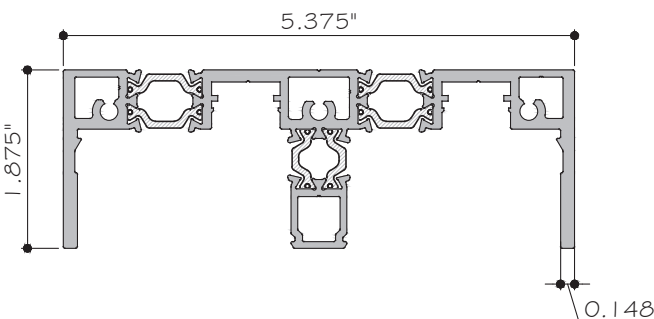
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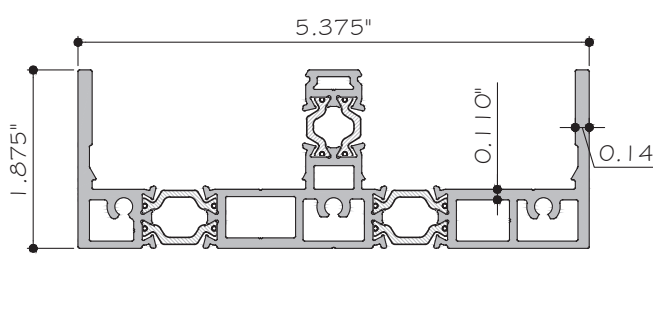
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D11

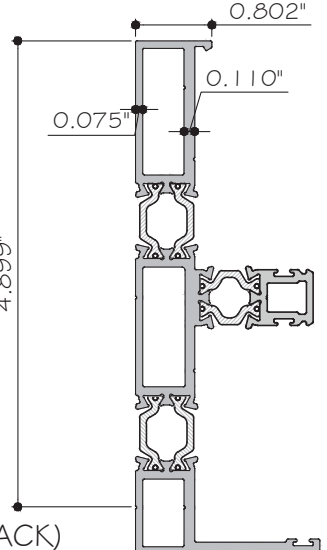
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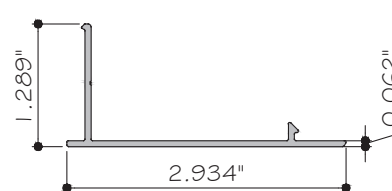
1 HEAD (2 TRACK)
ES-SGD2020T-501 6063-T6



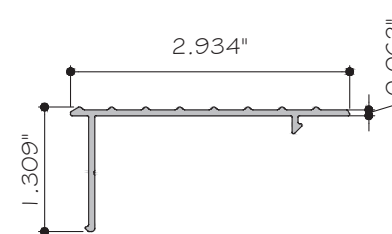
2 SILL (2 TRACK)
ES-SGD2020T-502 6063-T6



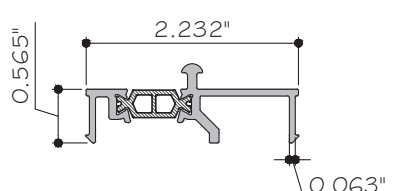
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ES-SGD2020T-503 6063-T6



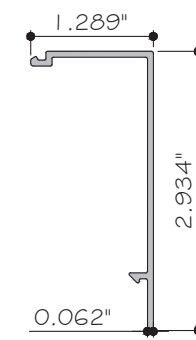
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ES-SGD2020T-005 6063-T5



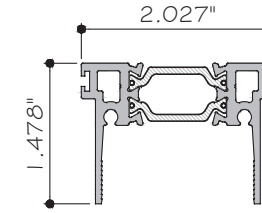
5 SILL COVER
ES-SGD2020T-009 6063-T5



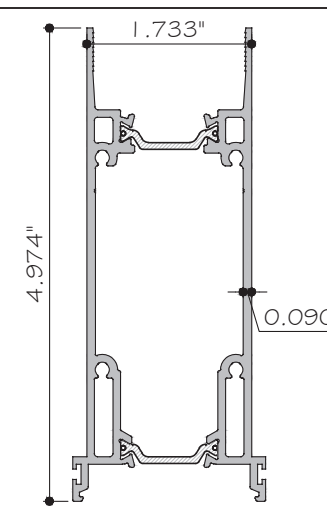
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ES-SGD2020T-504 6063-T6



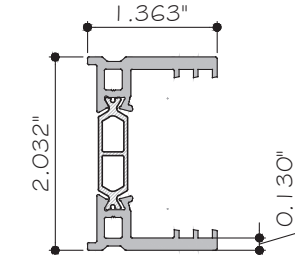
7 JAMB COVER
ES-SGD2020T-016 6063-T5



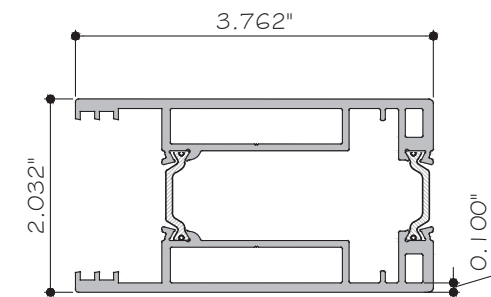
8 TOP RAIL
ES-SGD2020T-505 6063-T6



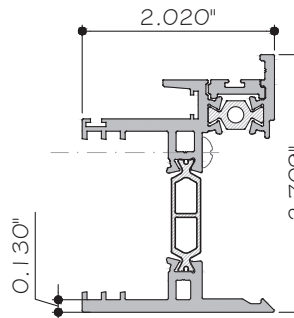
9 BOTTOM RAIL
ES-SGD2020T-506 6063-T6



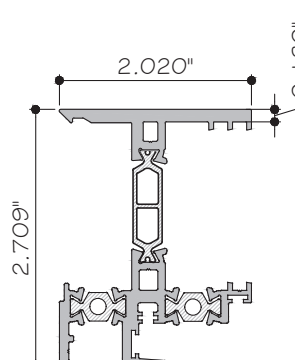
10 FIXED STILE PANEL
ES-SGD2020T-507 6063-T6



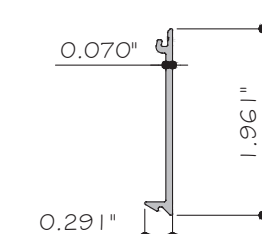
11 SLIDING STILE PANEL
ES-SGD2020T-508 6063-T6



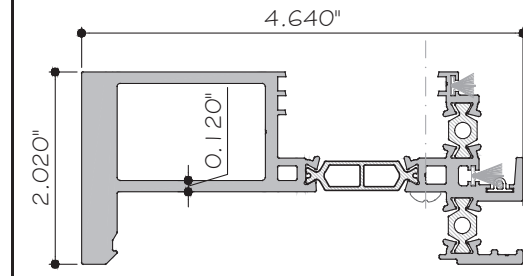
12 INTERLOCK
ES-SGD2020T-509 6005-T5



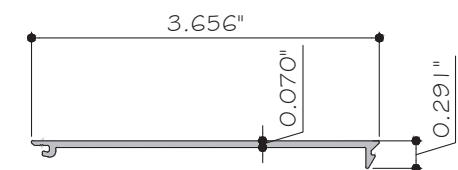
13 INTERLOCK
ES-SGD2020T-510 6005-T5



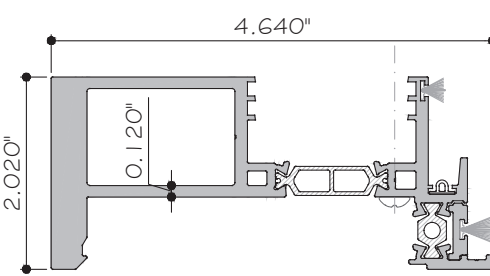
14 COVER INTERLOCK
ES-SGD2020T-027 6063-T5



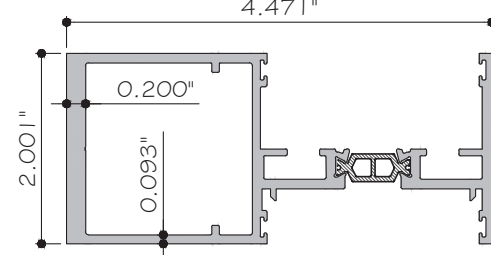
15 INTERLOCK
ES-SGD2020T-511 6005-T5



16 COVER INTERLOCK
ES-SGD2020T-029 6063-T5



17 INTERLOCK
ES-SGD2020T-512 6005-T5



18 ASTRAGAL
ES-SGD2020T-513 6005-T5

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL: (305) 624-7775

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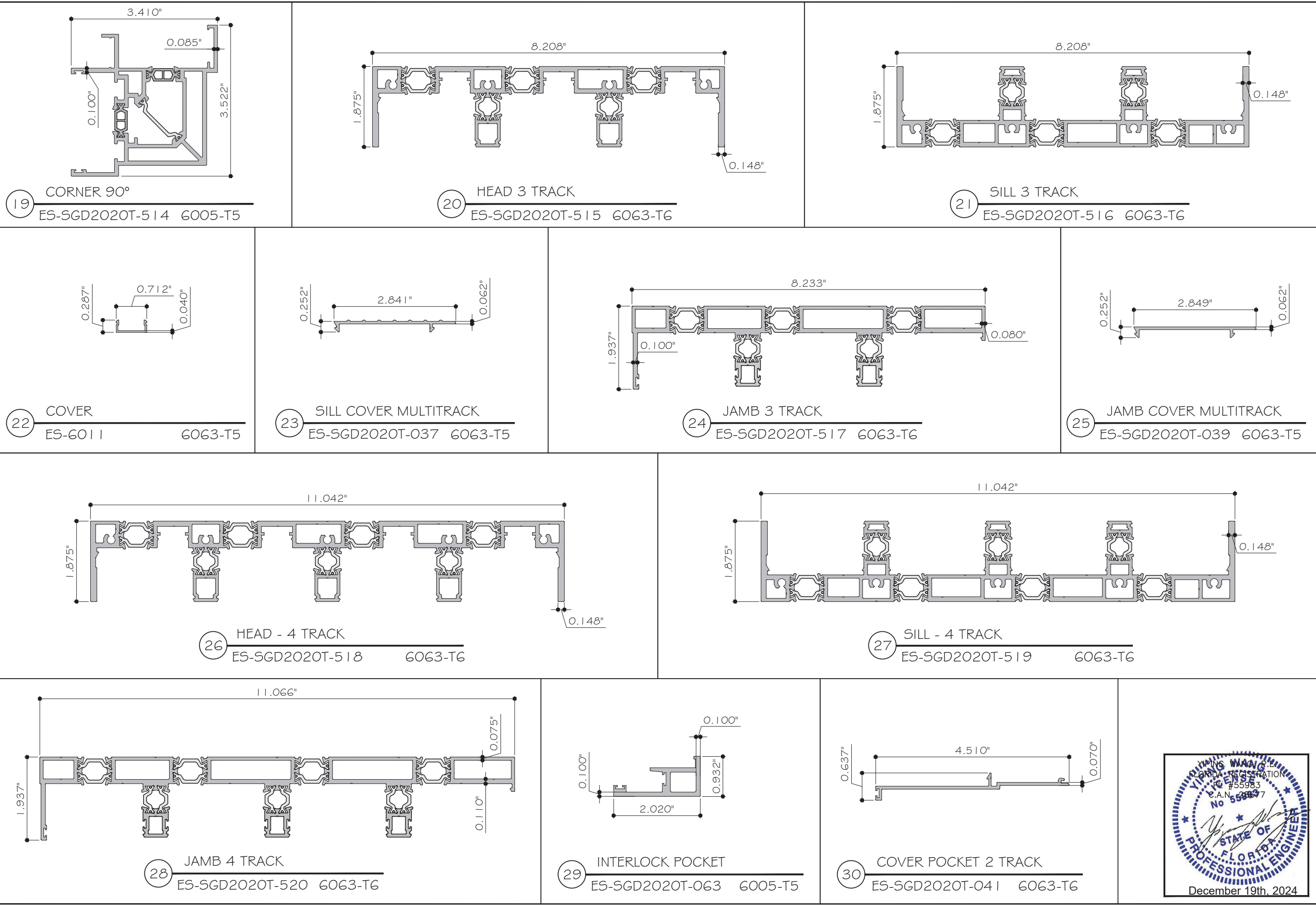
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mcy@mcyengineering.com

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YIMING WANG

FLORIDA REGISTRATION

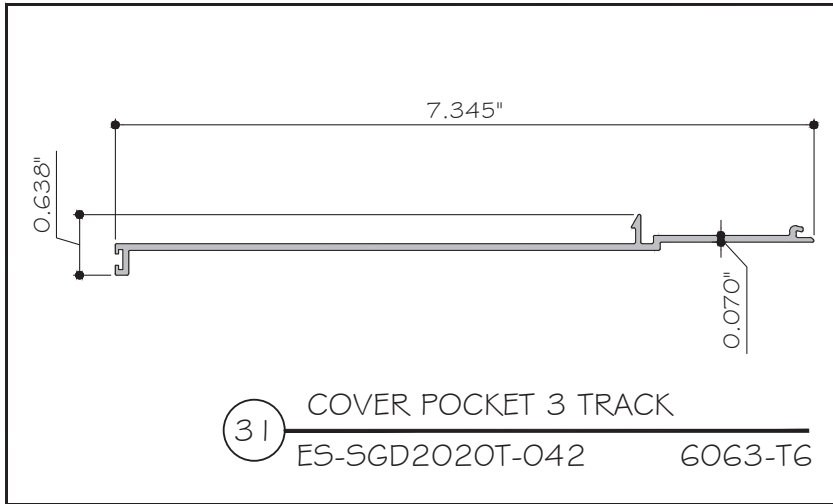
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C.A.N. 230697

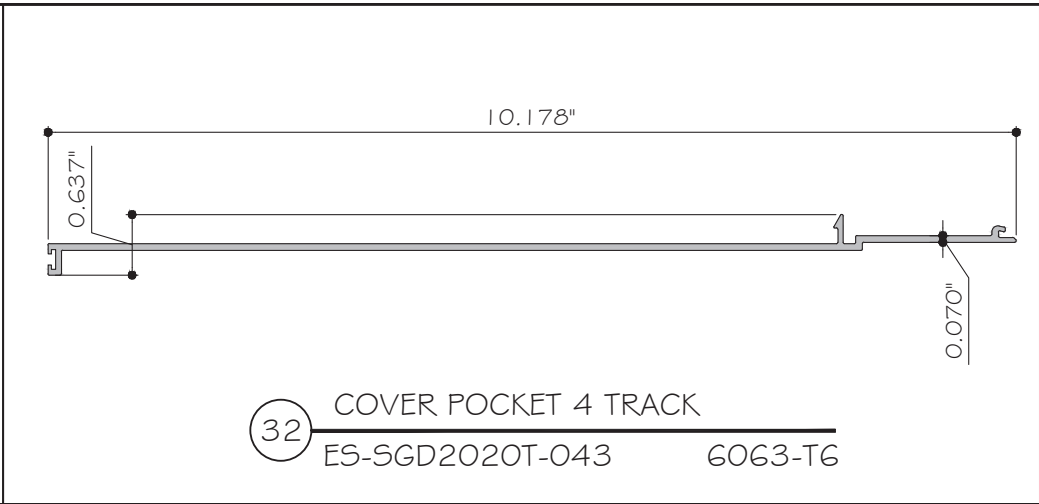
STATE OF FLORIDA

PROFESSIONAL ENGINEER

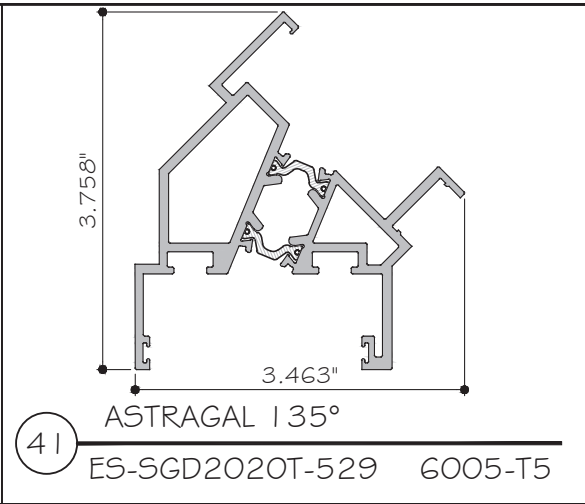
December 19th, 2024



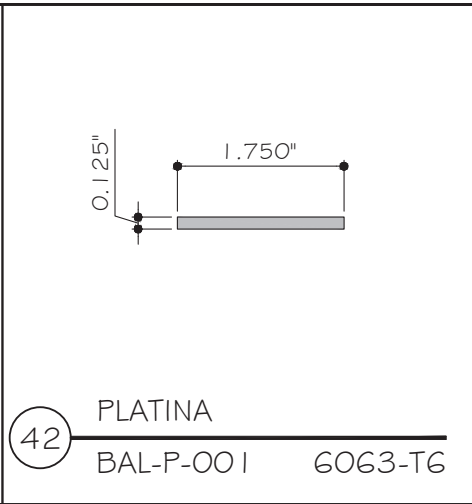
31 COVER POCKET 3 TRACK
ES-SGD2020T-042 6063-T6



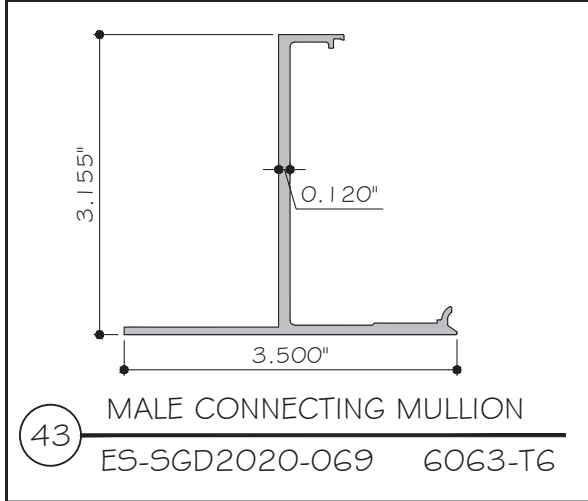
32 COVER POCKET 4 TRACK
ES-SGD2020T-043 6063-T6



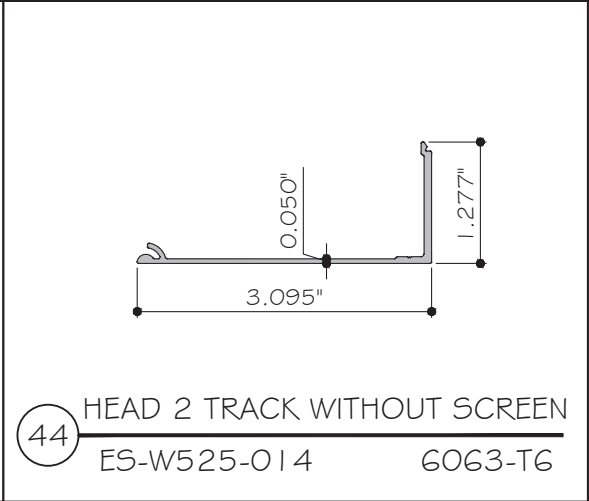
41 ASTRAGAL 135°
ES-SGD2020T-529 6005-T5



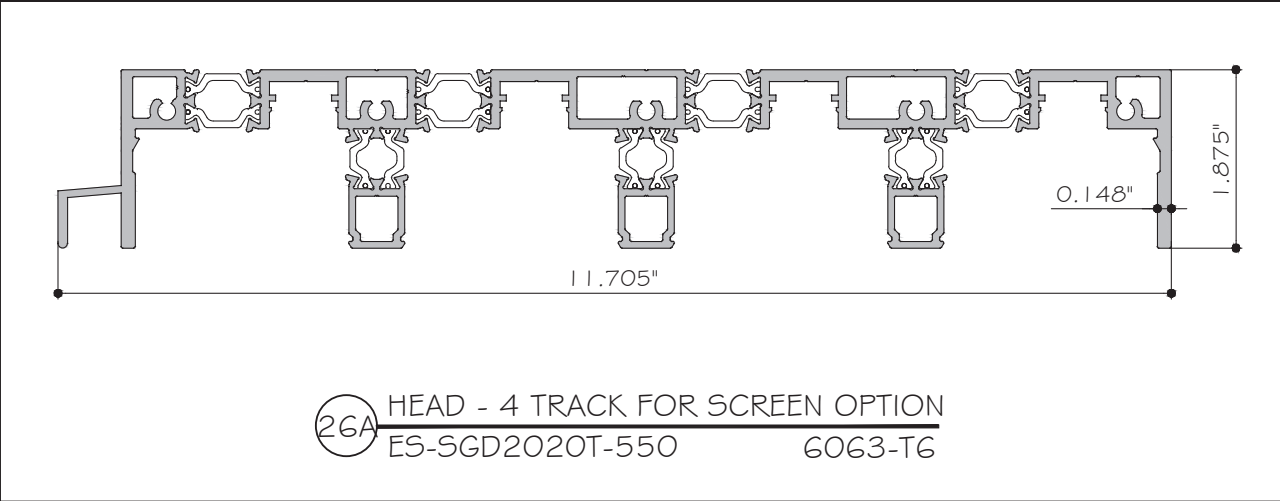
42 PLATINA
BAL-P-001 6063-T6



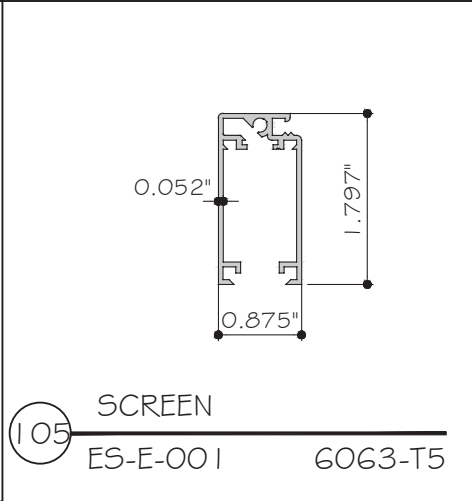
43 MALE CONNECTING MULLION
ES-SGD2020-069 6063-T6



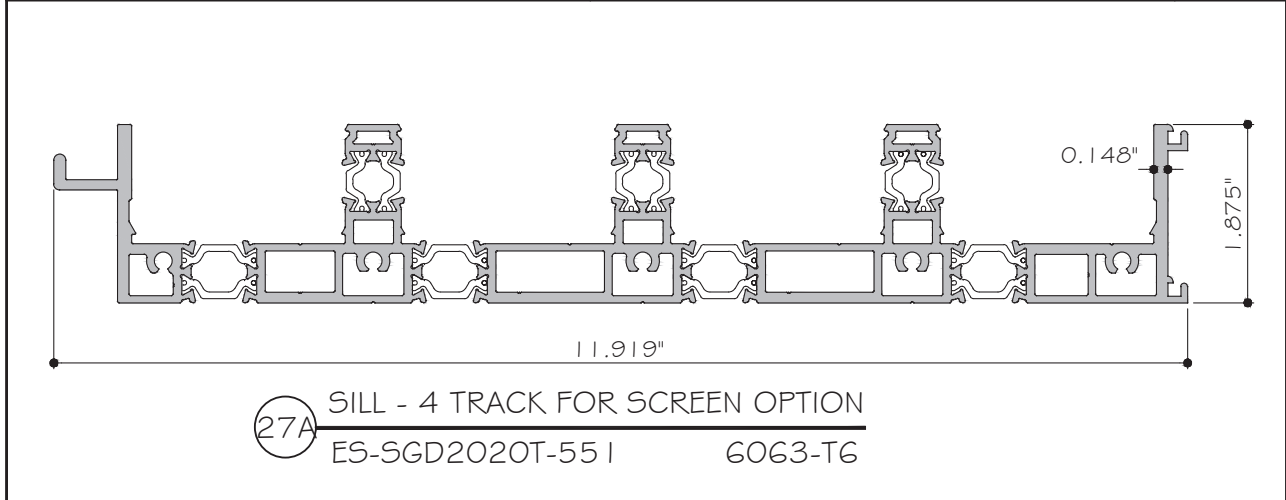
44 HEAD 2 TRACK WITHOUT SCREEN
ES-W525-014 6063-T6



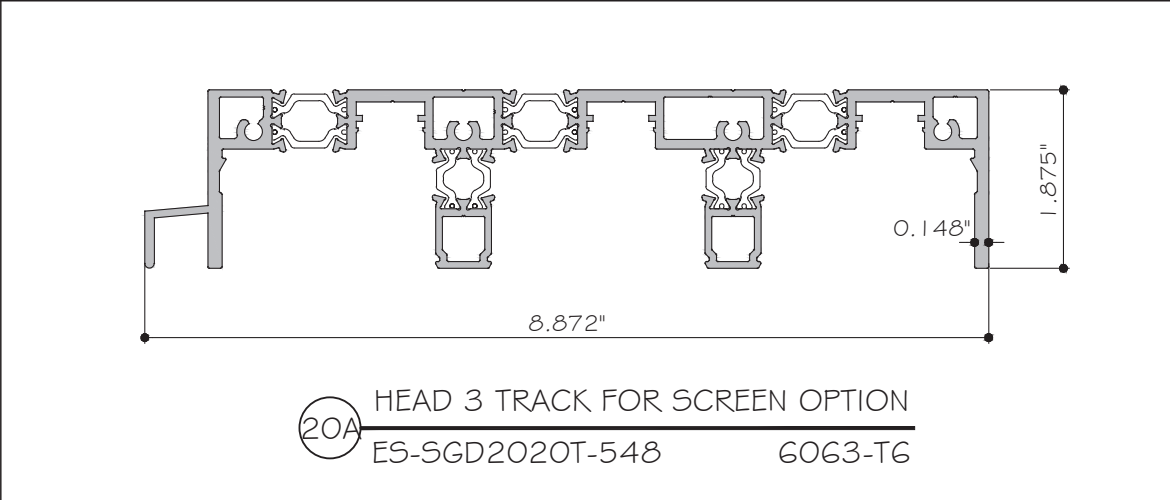
26A HEAD - 4 TRACK FOR SCREEN OPTION
ES-SGD2020T-550 6063-T6



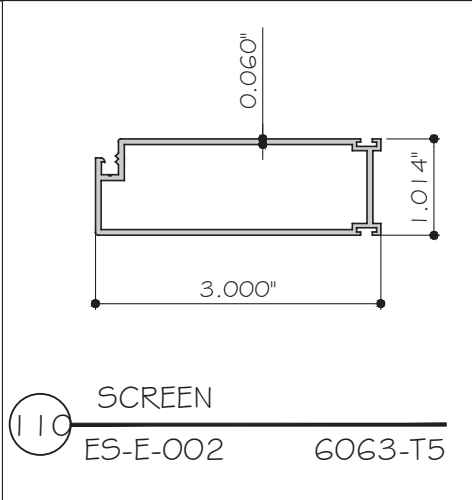
105 SCREEN
ES-E-001 6063-T5



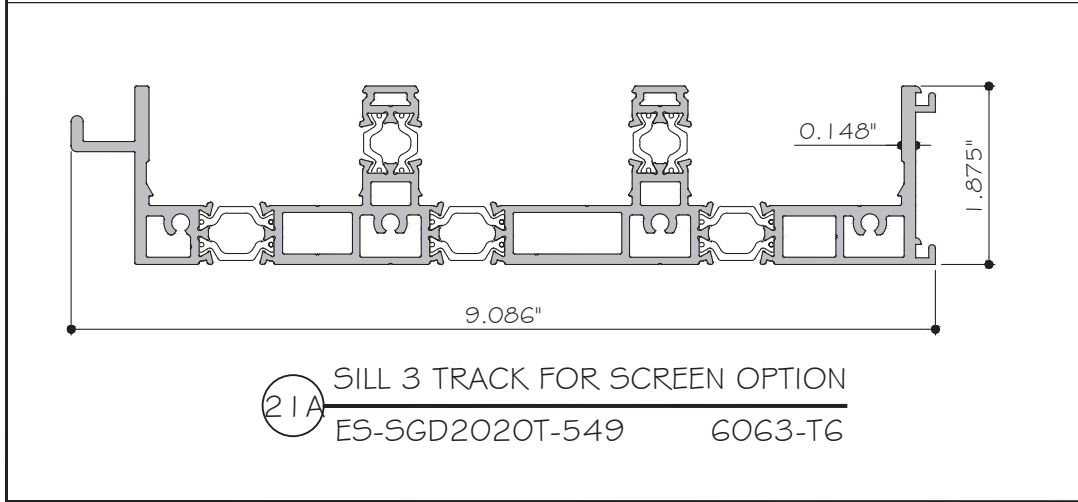
27A SILL - 4 TRACK FOR SCREEN OPTION
ES-SGD2020T-551 6063-T6



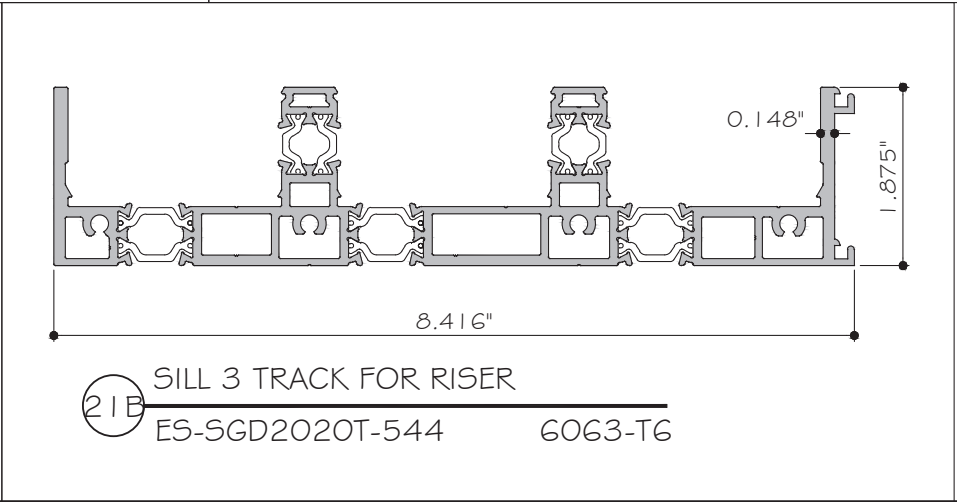
20A HEAD 3 TRACK FOR SCREEN OPTION
ES-SGD2020T-548 6063-T6



110 SCREEN
ES-E-002 6063-T5



21A SILL 3 TRACK FOR SCREEN OPTION
ES-SGD2020T-549 6063-T6



21B SILL 3 TRACK FOR RISER
ES-SGD2020T-544 6063-T6

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GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

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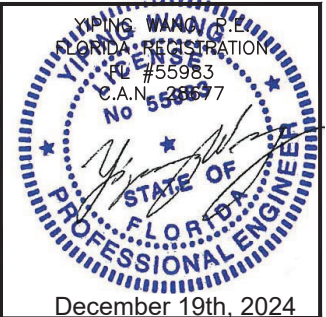
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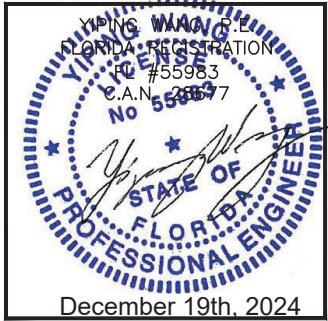
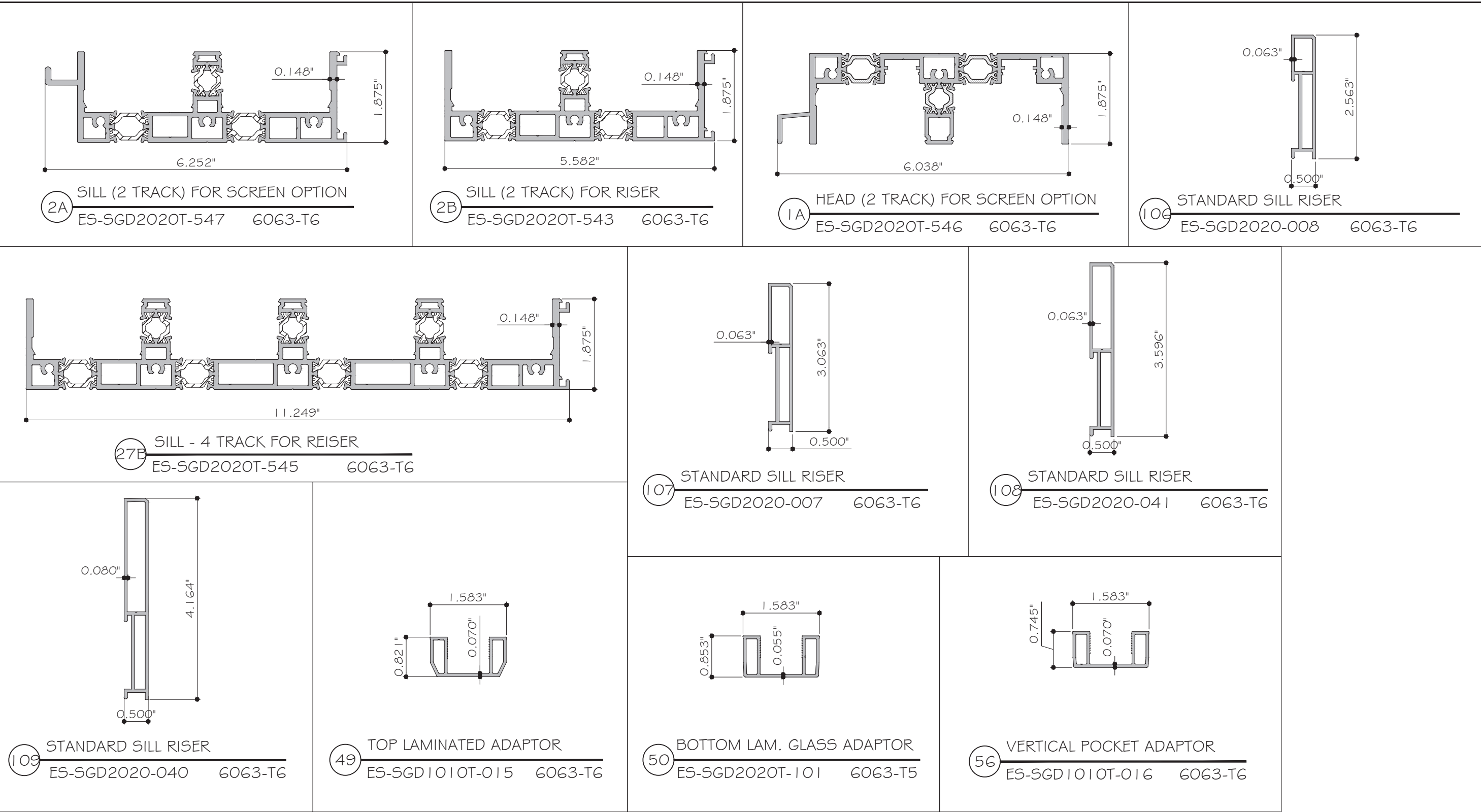
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GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

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mcy@mcyengineering.com

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