

NR ARCHITECTURAL PRODUCTS, INC.
SERIES 10000 3-TRACK LIFT & SLIDING GLASS DOORS
LARGE AND SMALL MISSILE IMPACT (LMI & SMI)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION / 8TH EDITION (2020 / 2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT.
FOR INSTALLATION UP TO 30FT OF GRADE LEVEL USE LMI SYSTEM.
FOR INSTALLATION ABOVE 30FT OF GRADE LEVEL USE SMI SYSTEM.
- 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 7TH EDITION / 8TH EDITION (2020 / 2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY NR ARCHITECTURAL PRODUCTS, INC. DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS. ULTIMATE LOAD OBTAINED FROM ASCE 7-16 / ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.
- 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

<u>STEP 1</u>	DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16 / ASCE 7-22 STANDARD OR WIND TUNNEL REPORT.
<u>STEP 2</u>	SEE CHARTS ON SHEET G1 FOR GLASS OPTIONS FOR LMI & SMI.
<u>STEP 3</u>	MAX. SIZE OF SLIDING DOOR AND NUMBER OF ANCHOR REQUIRED ARE SHOWN ON E1 TO E2. FOR SIZE OTHER THAN TESTED, SEE CHART ON E4. FOR ANCHOR TYPE, SEE SHEET A1.
<u>STEP 4</u>	THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

-SEALANTS:

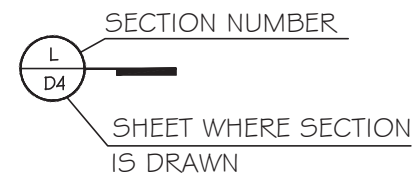
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

-HARDWARE:

SAVIO/INTERLOCK LIFT AND SLIDE 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
SGD - SLIDING GLASS DOOR
H.R. - HEAD RECEPTOR
AVE. - AVERAGE

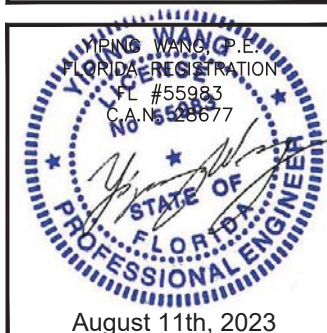


LIMITATIONS OF USE

- 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.

FLORIDA APPROVAL:

FL #30303.1



								FBC 2023	Description
								James	Drawn By
							08.11.2023	Date	
						R3	Rev.	No.	
Drawn Date 08.11.2023						Scale			
DRAWING NO. AD19-21									
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Sheet No. 01 OF 15									

SERIES 10000 LIFT AND SLIDE GLASS DOOR - L.M.I.&S.M.I

N.R. ARCHITECTURAL PRODUCTS, INC.
4249 WESTBOARDS DRIVE

4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
TEL. (561) 844-1121

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MCY ENGINEERING, INC.
GLAZING CONSULTANTS

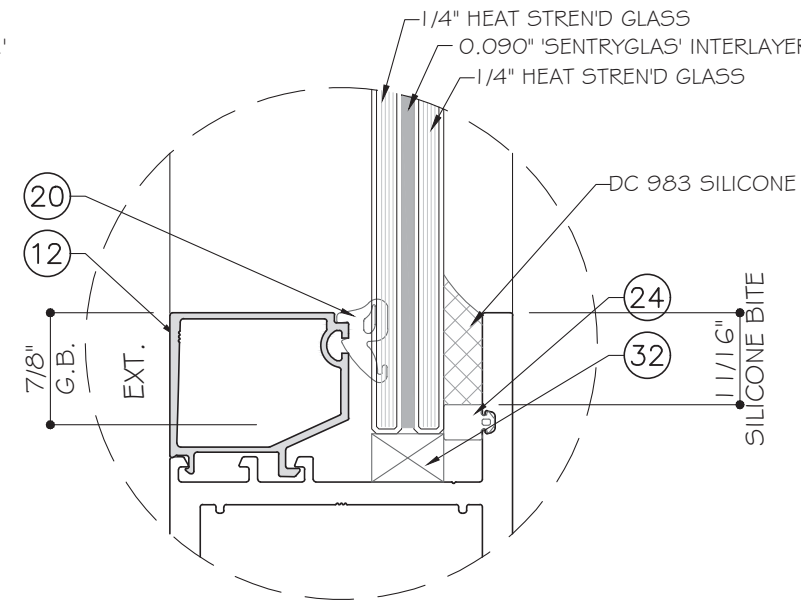
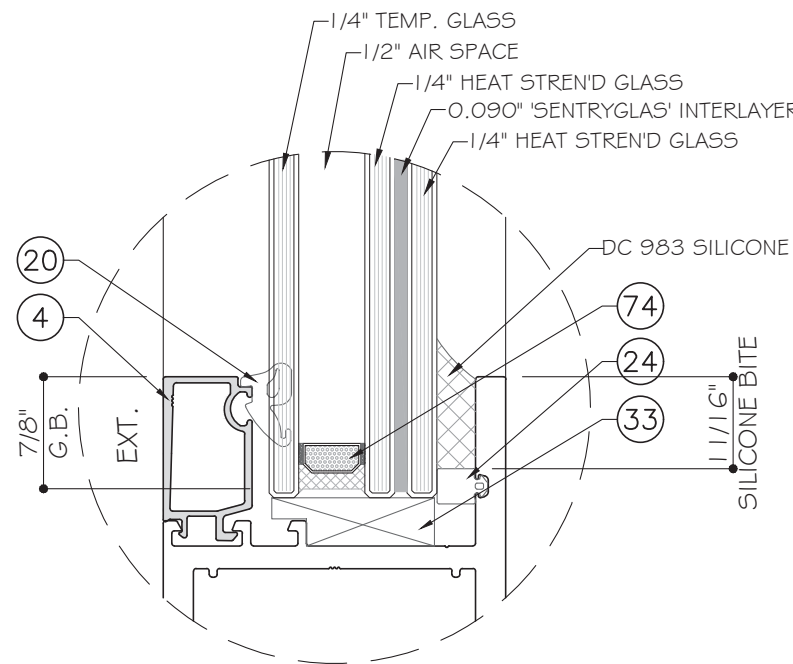
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MIRAMAR, FL. 33027

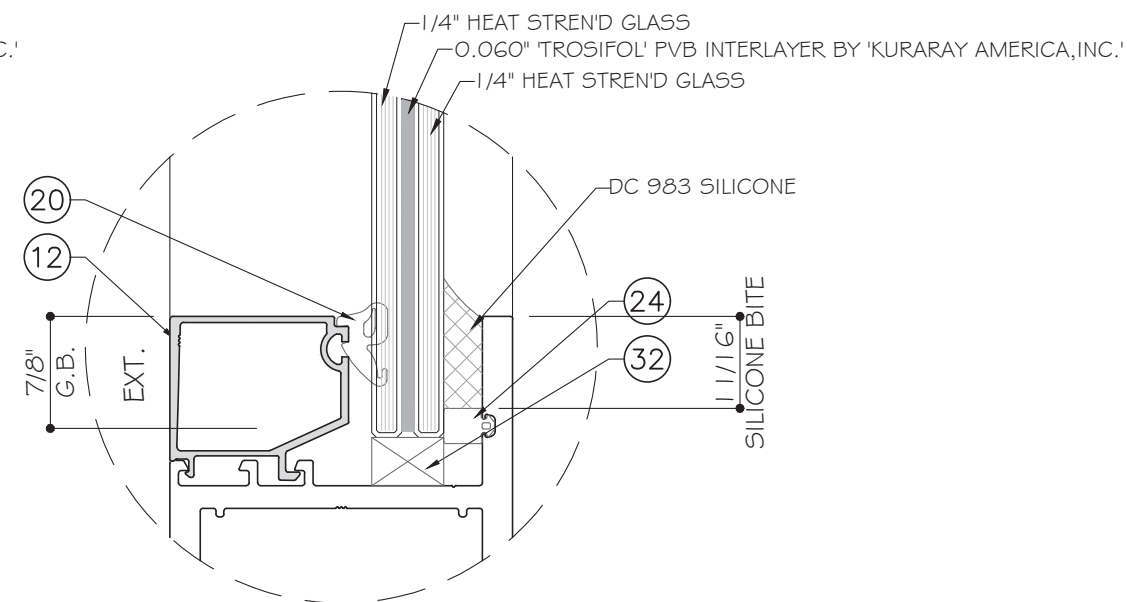
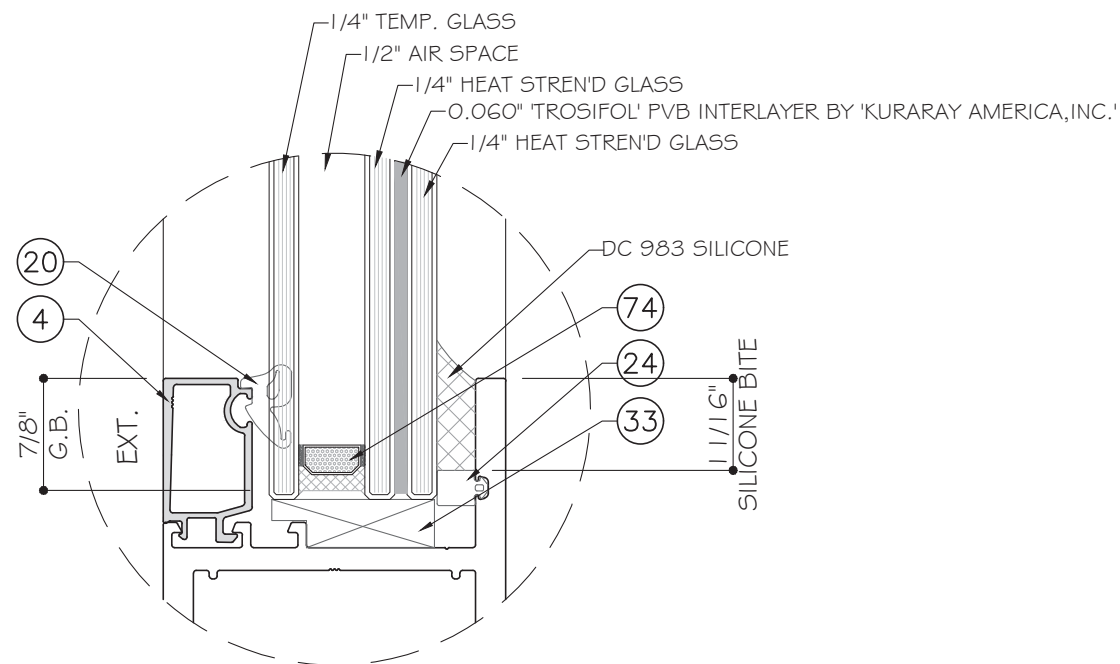
www.MCYEngineering.com

mcy@mcyengineering.com



NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

LARGE MISSILE IMPACT



SMALL MISSILE IMPACT

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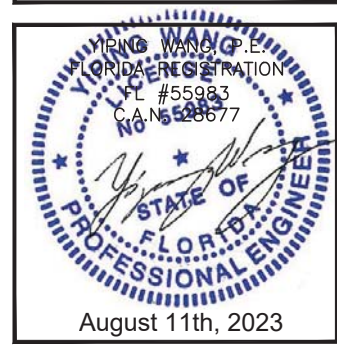

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SERIES 10000 LIFT AND SLIDE GLASS DOOR - L.M.I.&S.M.I.

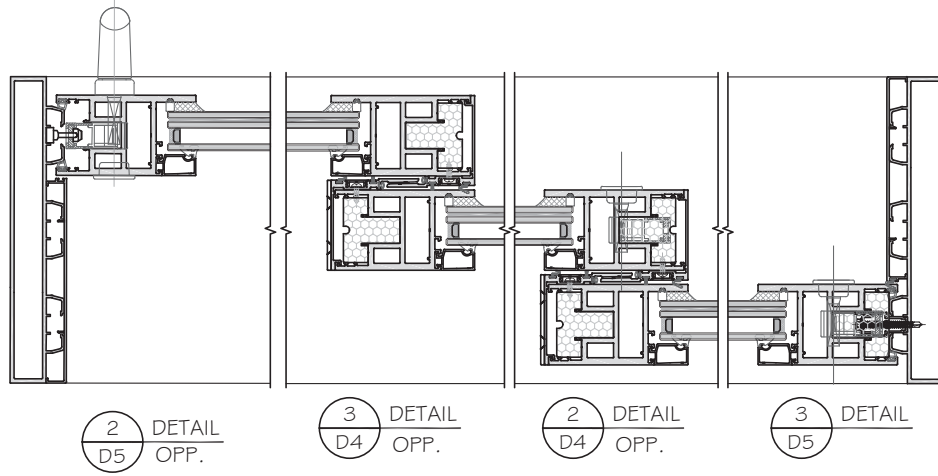
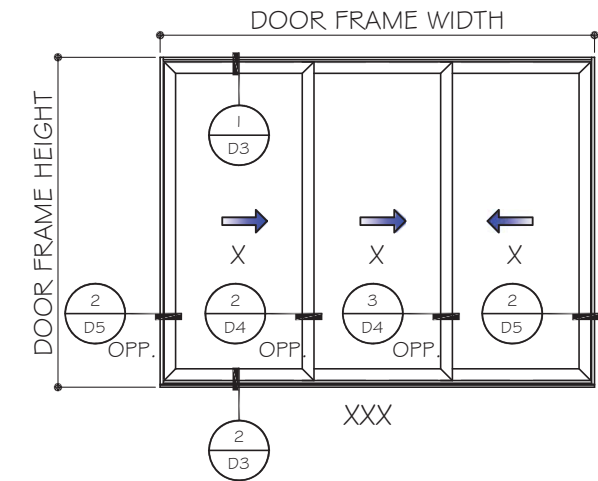
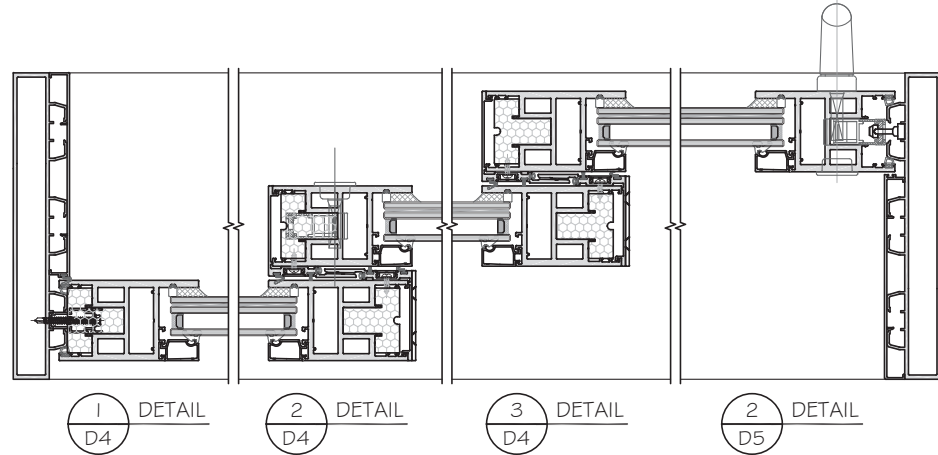
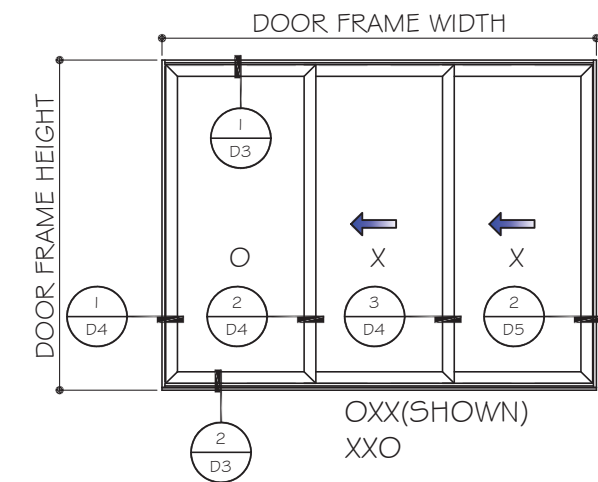
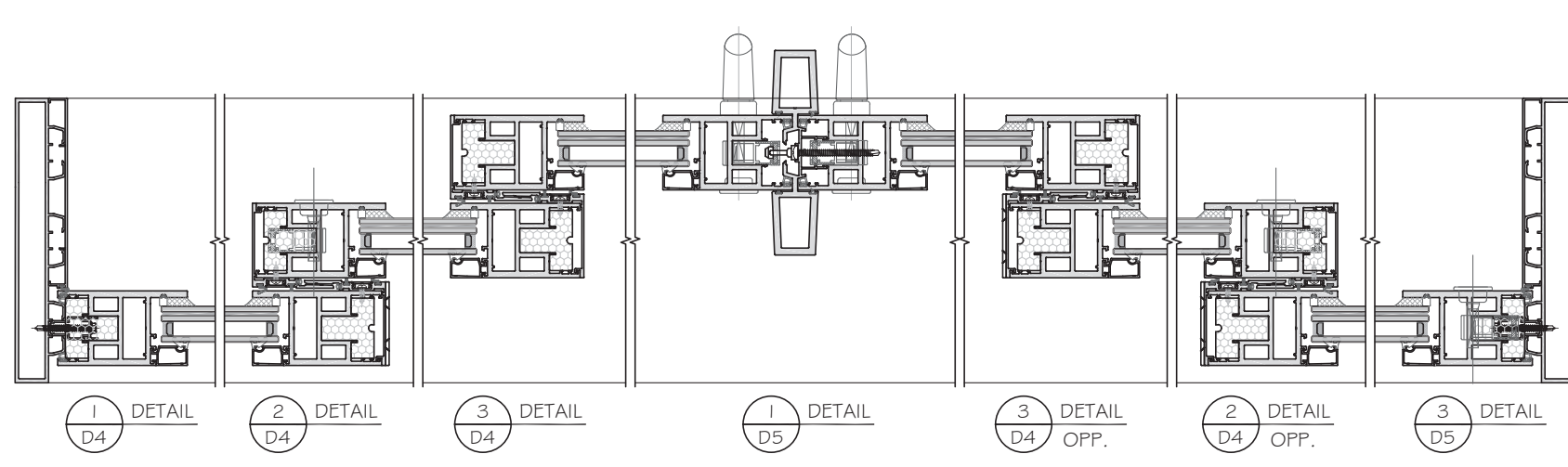
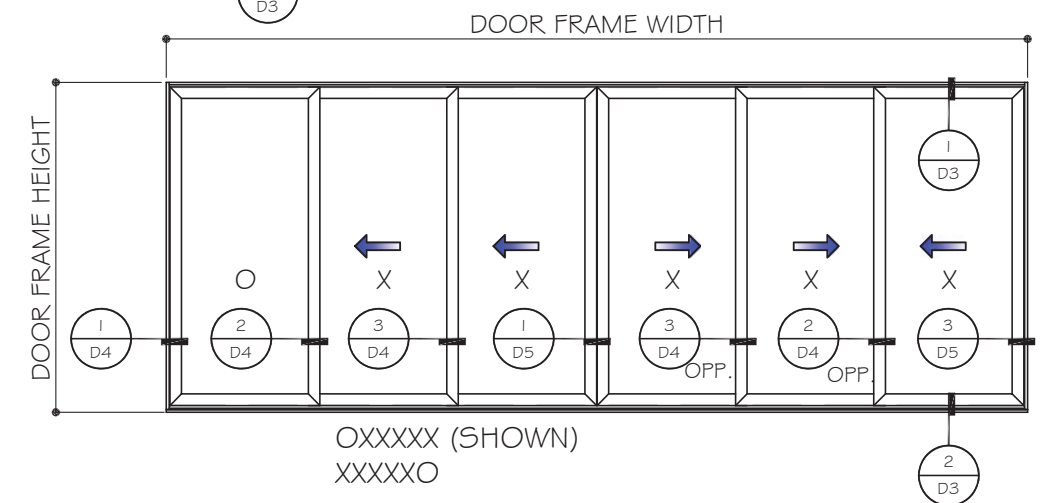
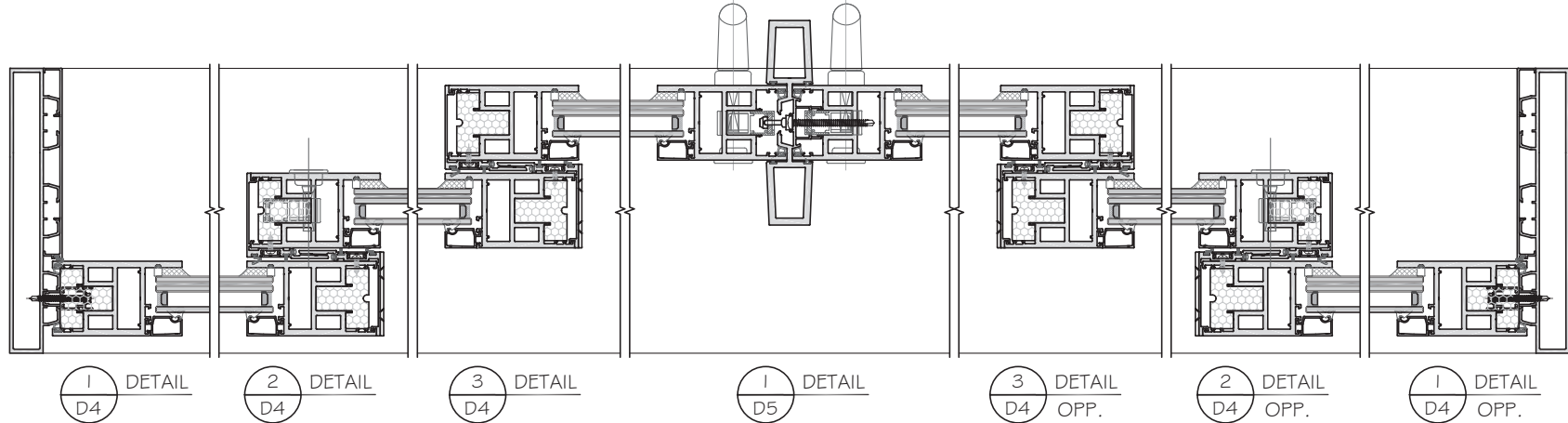
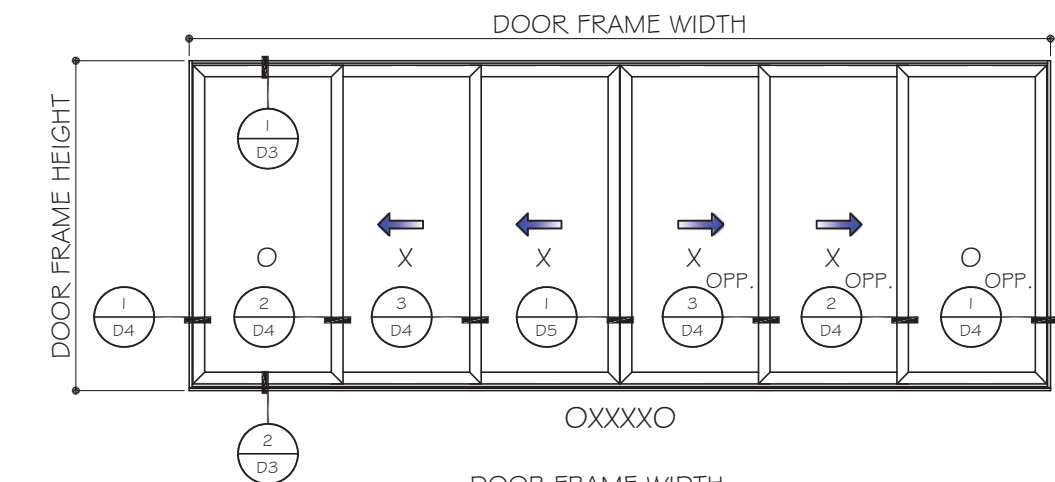
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				R3	(08.11.2023)	James	FBC 2023
						Drawn By	Description
Drawn Date	Scale						
08.11.2023							
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G1							
Sheet No.							
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FL #30303.1



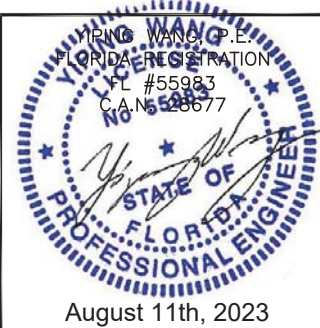
TYPICAL LIFT AND SLIDE OPTIONAL CONFIGURATIONS (THREE TRACKS)



MAXIMUM DESIGN LOAD
SEE SHEET G1

- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. SEE SHEET A1 FOR ANCHOR DETAILS AND OPTIONS AT HEAD/SILL.
 4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

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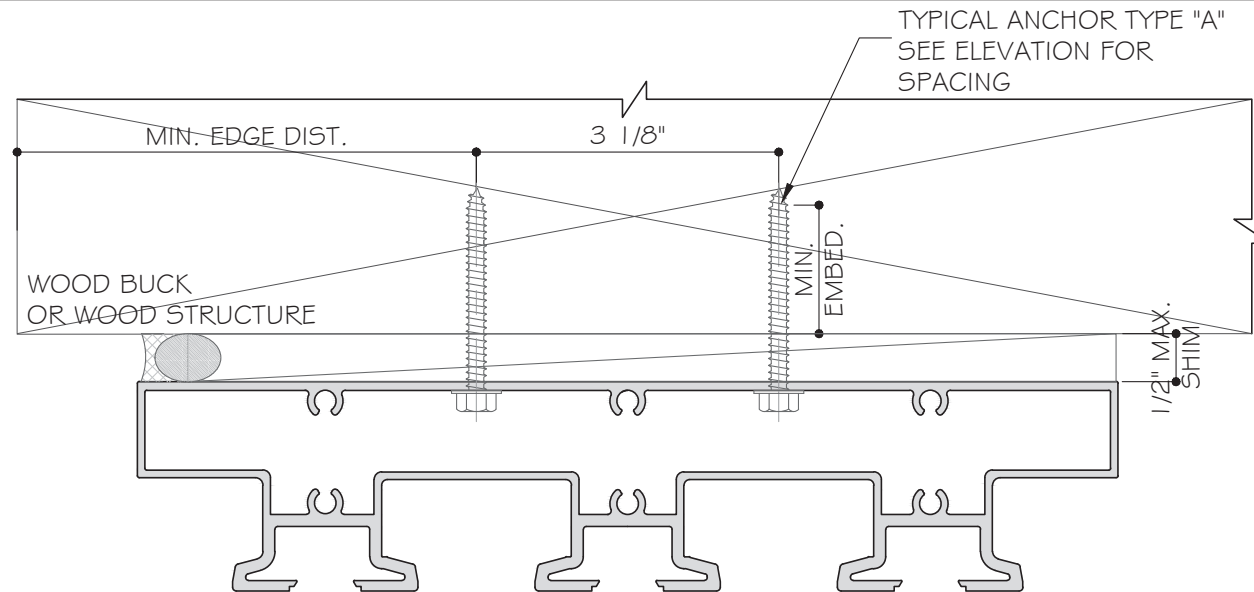
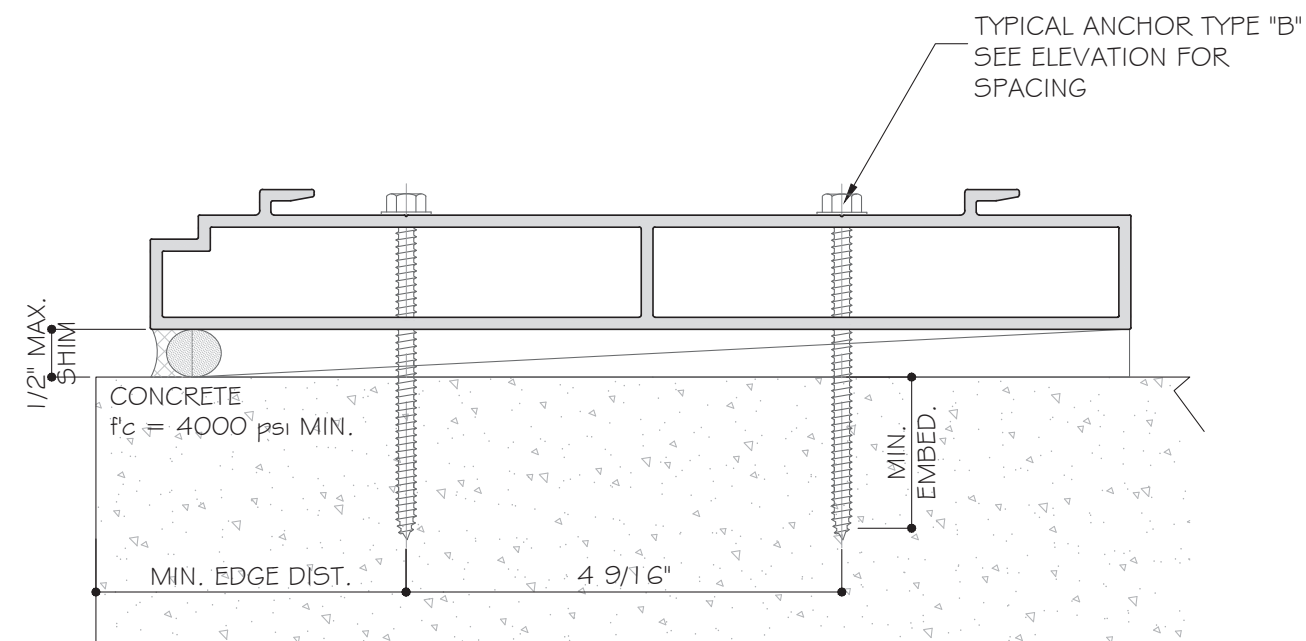
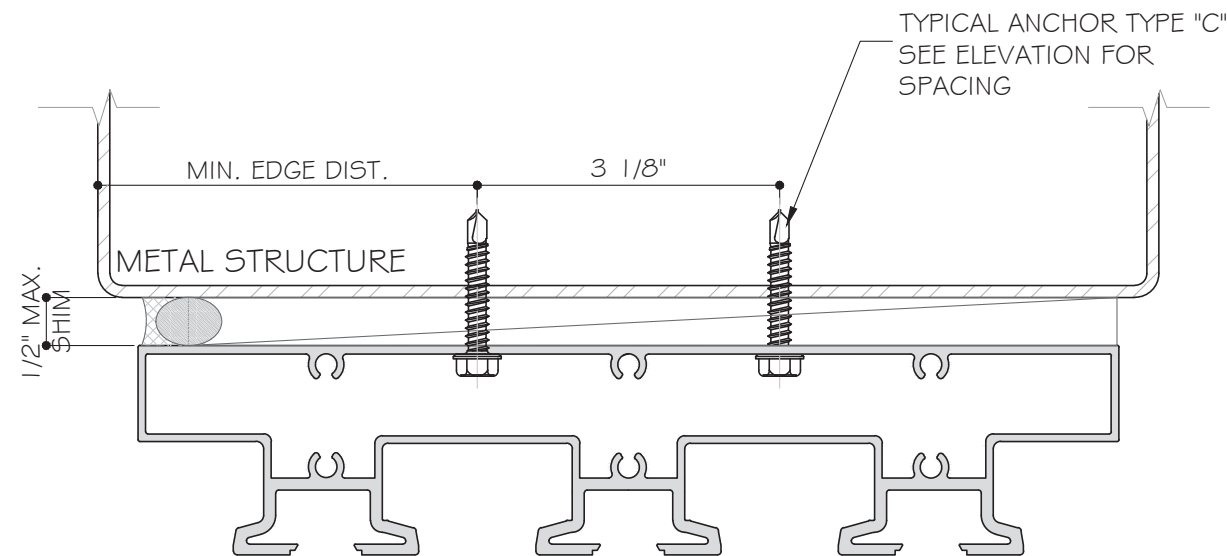
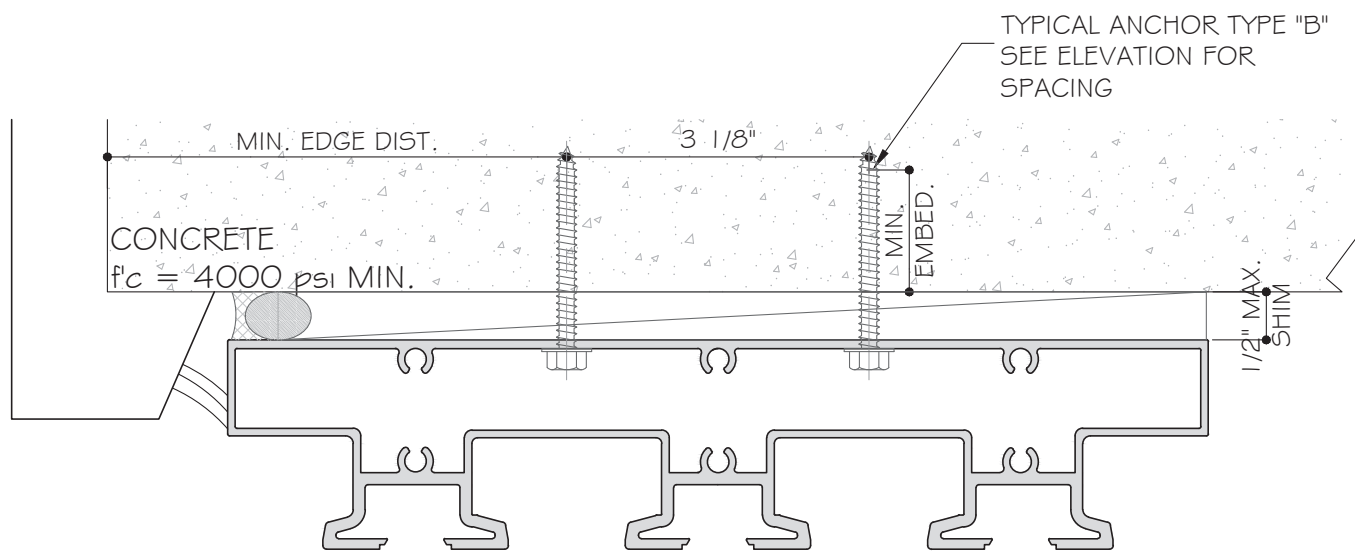
SERIES 10000 LIFT AND SLIDE GLASS DOOR - L.M.I.&S.M.I

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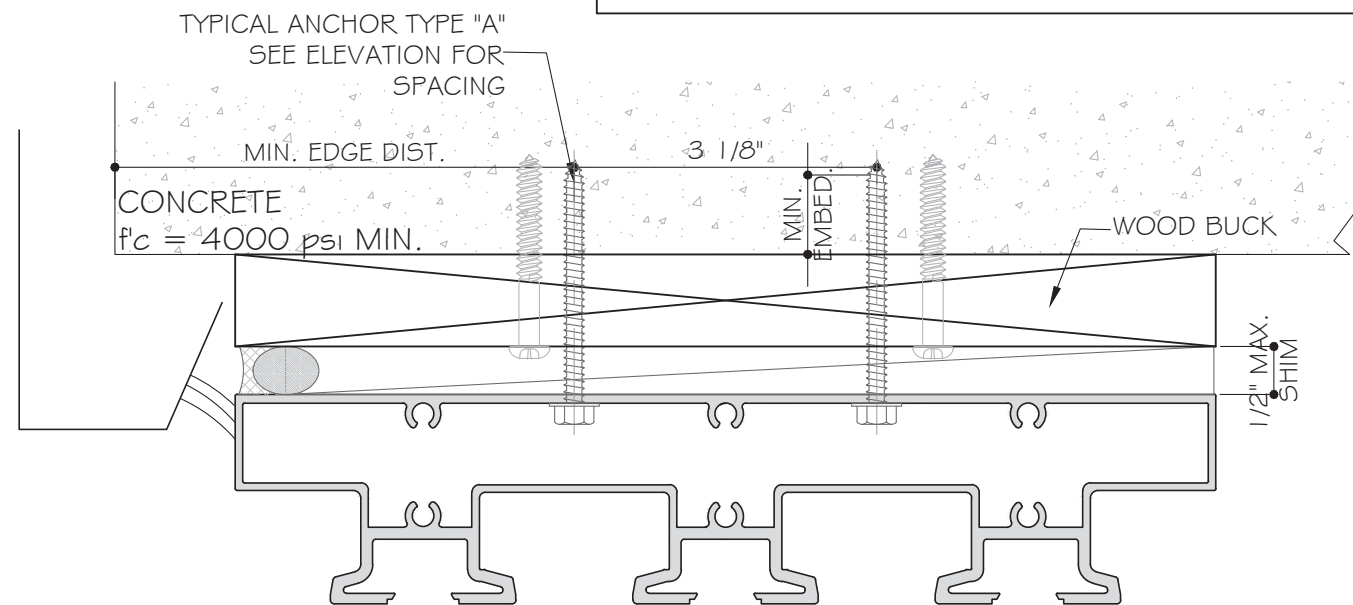
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Drawn Date	08.11.2023	Scale	
DRAWING NO.	AD19-21	Sheet No.	05 OF 15
Rev. No.	R3	Date	08.11.2023
Drawn By	James	Rev. By	James
Description	FBC 2023		



WOOD STRUCTURES NOT BY NR WINDOWS, MUST BY ANCHOR PROPERLY TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE



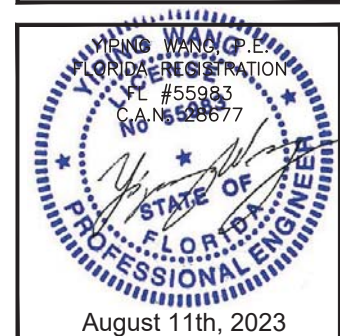
ANCHOR TYPES:

TYPE "A": 5/16" DIA. ULTRACON ($F_u = 177 \text{ ksi}$, $F_y = 155 \text{ ksi}$)
1 1/2" MIN. EMBED INTO WOOD BUCK OR WOOD STRUCTURE ($SG = 0.55 \text{ MIN.}$)
OR THRU WOOD INTO $f'_c = 4 \text{ ksi MIN. CONCRETE W/ 2" MIN. EMBED}$
2 1/2" MIN. EDGE DISTANCE.

TYPE "B": 5/16" DIA. ULTRACON ($F_u = 177 \text{ ksi}$, $F_y = 155 \text{ ksi}$)
2" MIN. EMBED INTO $f'_c = 4 \text{ ksi MIN. CONCRETE}$
2 1/2" MIN. EDGE DISTANCE.

TYPE "C": 5/16" TEKSDRIL-FLEX SCREW ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)
INTO METAL STRUCTURE
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36 \text{ KSI}$, MIN.)
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

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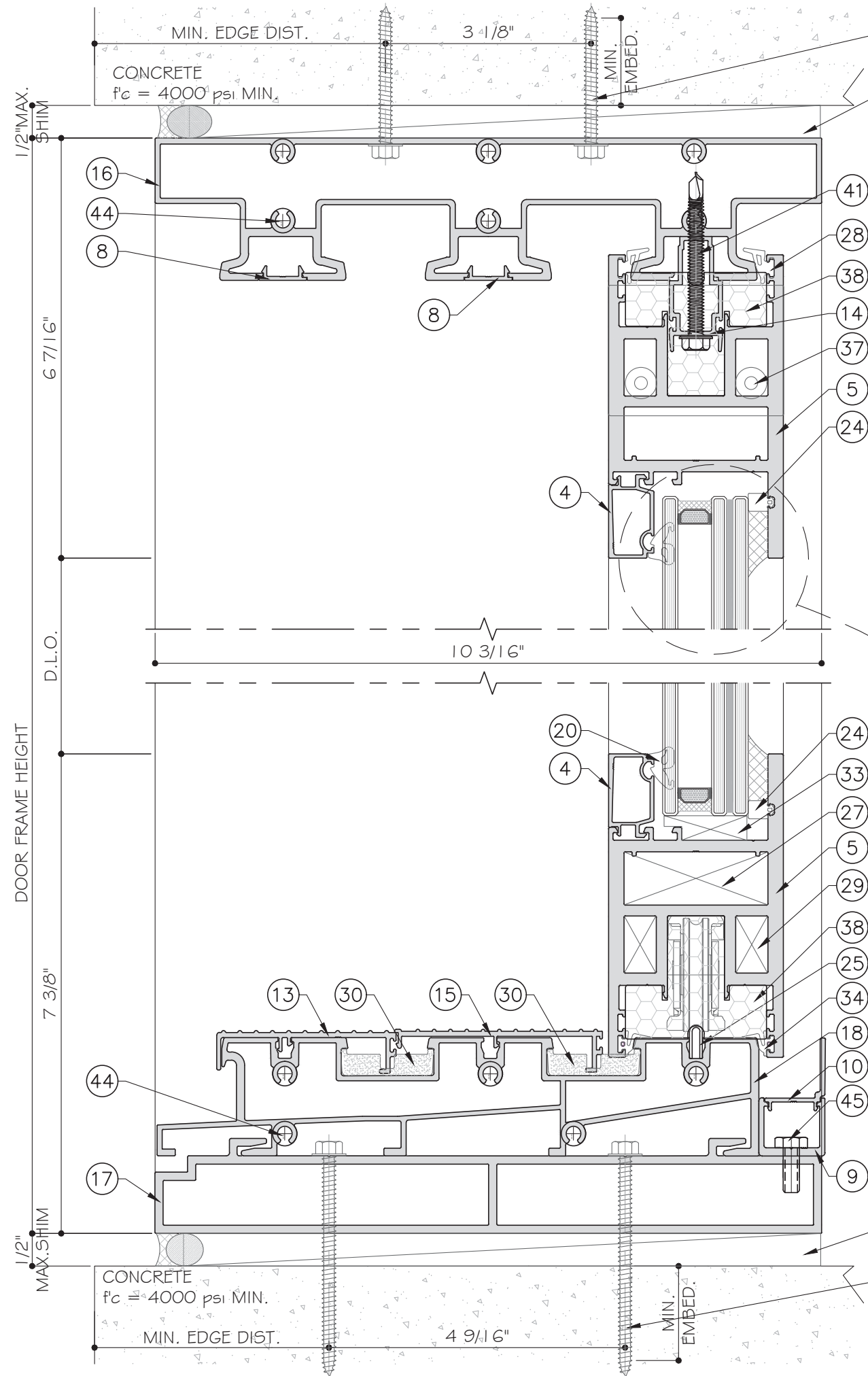
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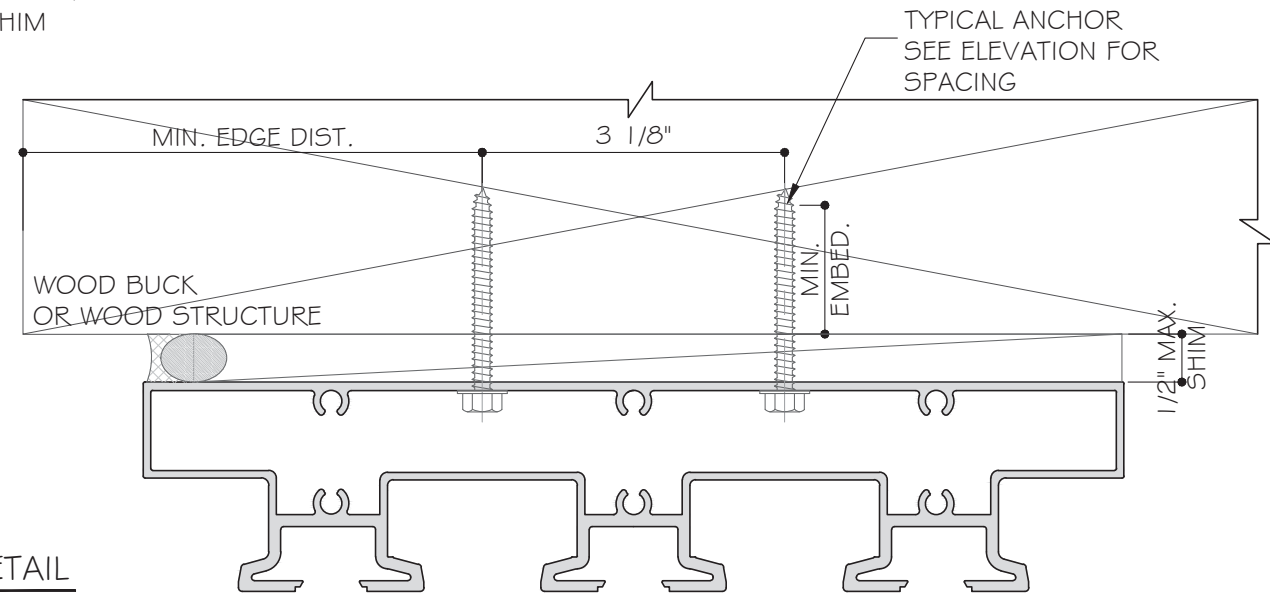
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Drawn Date	08.11.2023	Scale	
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EXTERIOR

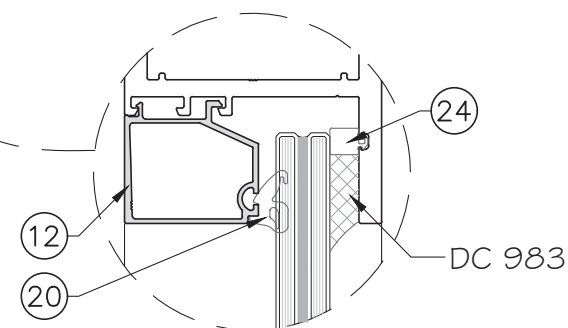


TYPICAL ANCHOR
SEE ELEVATION FOR SPACING
1/2" X 9 1/2" LOAD
BEARING SHIM

1
DI
DETAIL



WOOD STRUCTURES NOT BY NR WINDOWS, MUST
BY ANCHOR PROPERLY TO SUPPORT LOADS
IMPOSED BY GLAZING SYSTEM AND TRANSFER
THEM TO THE BUILDING STRUCTURE



LAMINATED GLASS OPTION

SEE ANCHOR LAYOUT
ON SHEET E1#E2

2
DI
DETAIL

1/2" X 9 1/2" LOAD
BEARING SHIM
TYPICAL ANCHOR
SEE ELEVATION FOR SPACING

FLORIDA APPROVAL:
FL #30303.1

YOUNG WANG
P.E.
FLORIDA REGISTRATION
FL #55983
CA# 528677

August 11th, 2023

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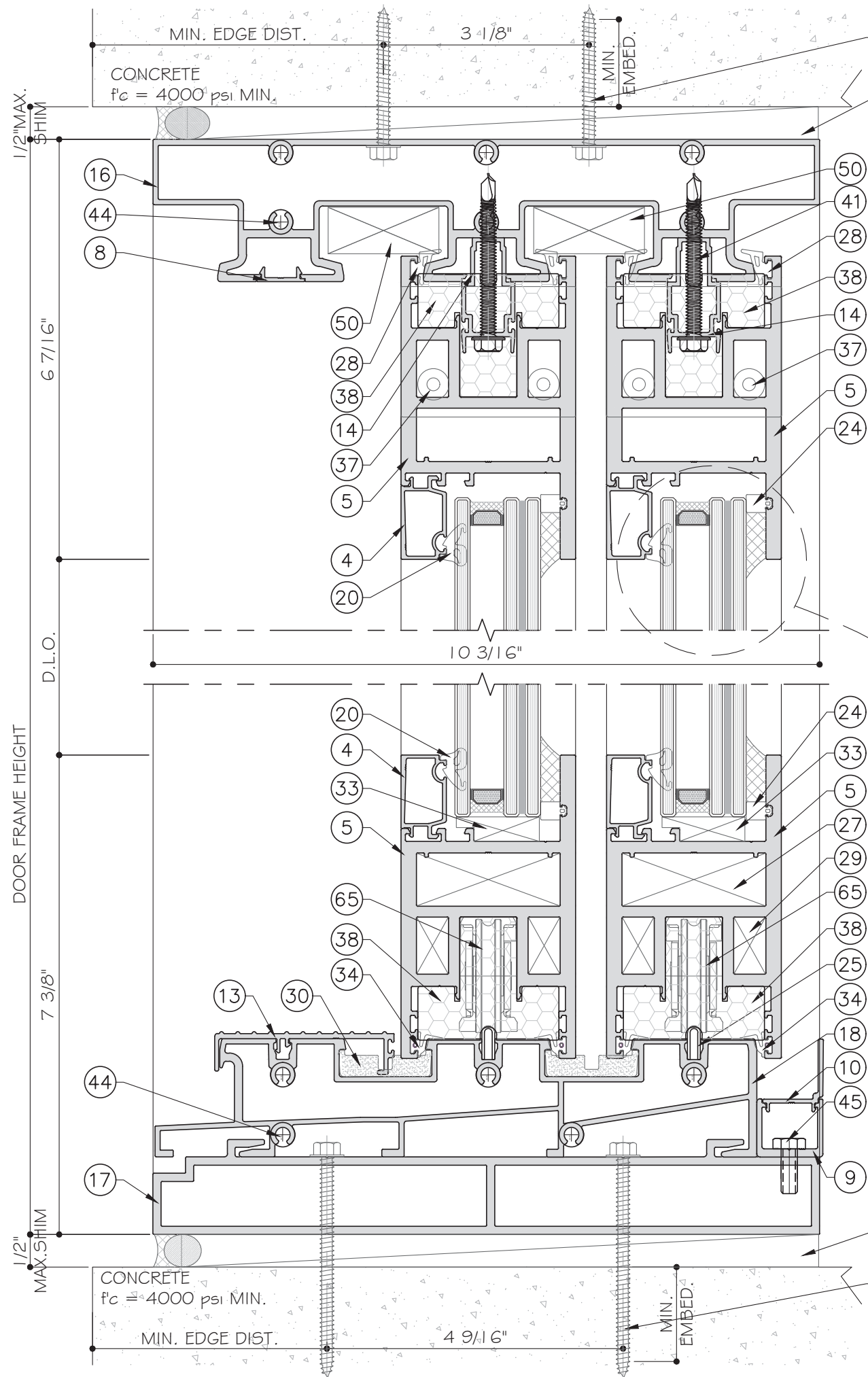
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R3	08.11.2023	James	FBC 2023

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EXTERIOR



1
D2
DETAIL

SEE ANCHOR LAYOUT
ON SHEET E1#E2

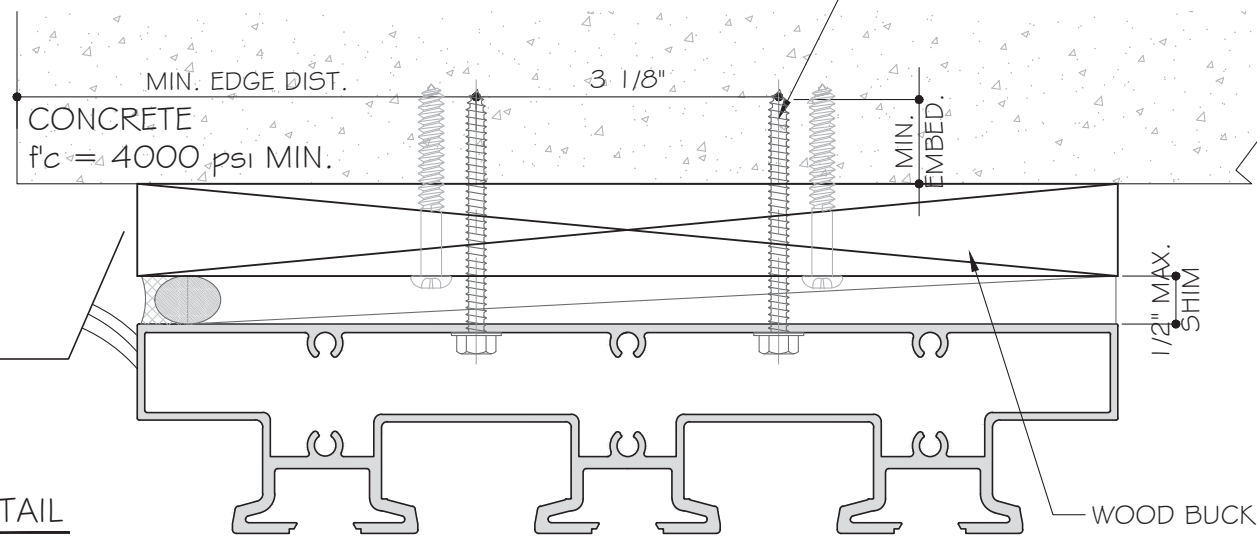
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1/2" X 9 1/2" LOAD
BEARING SHIM

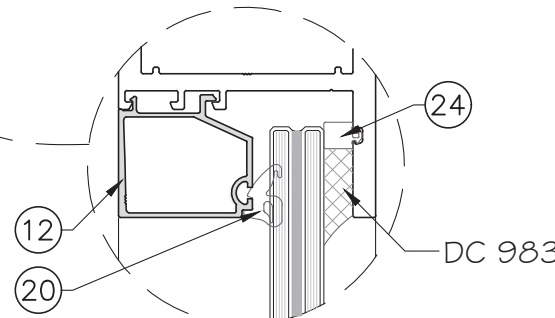
TYPICAL ANCHOR
SEE ELEVATION FOR SPACING

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SEE ELEVATION FOR SPACING

1/2" X 9 1/2" LOAD
BEARING SHIM

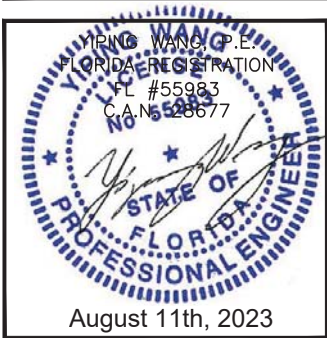


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LAMINATED GLASS OPTION

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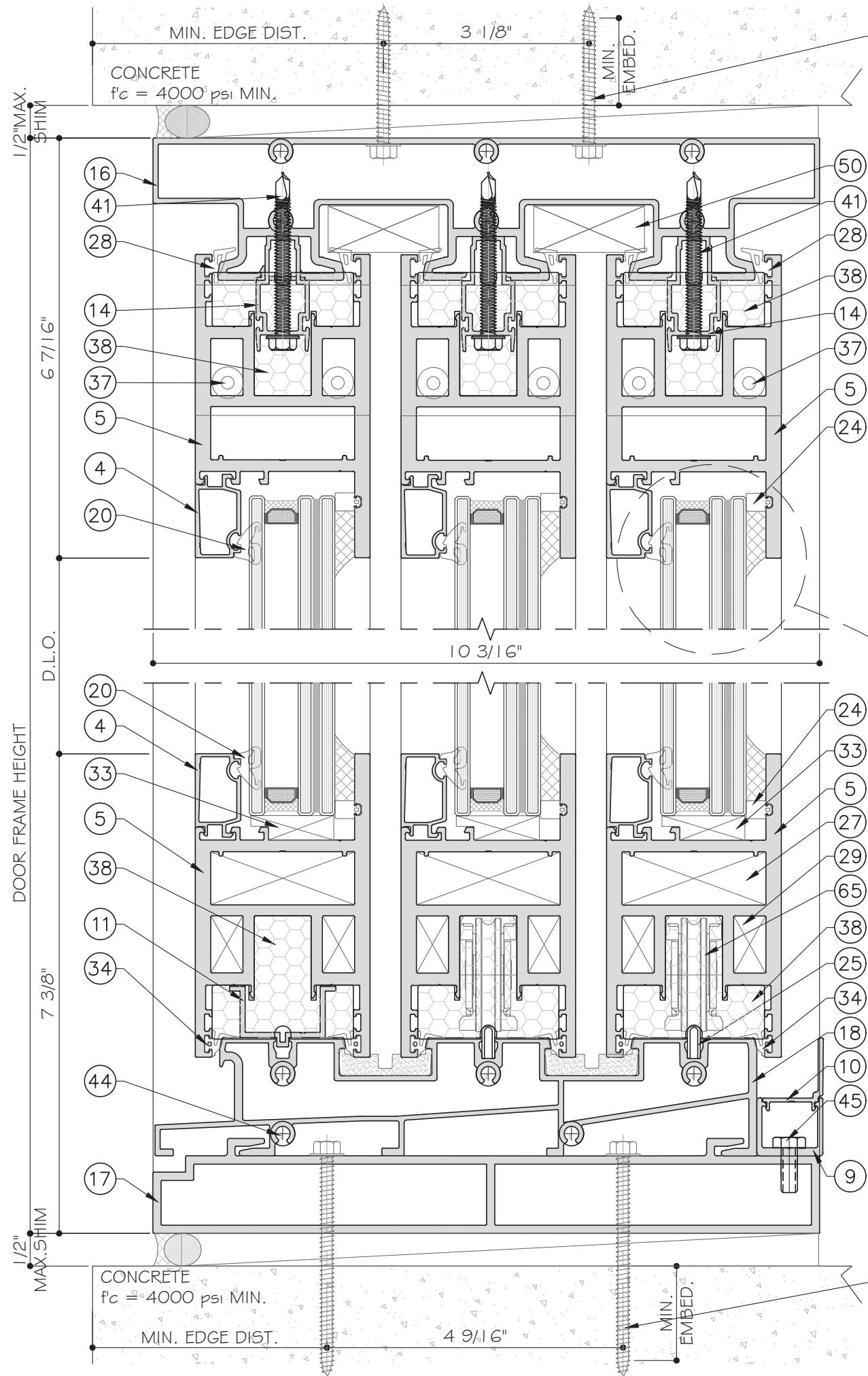
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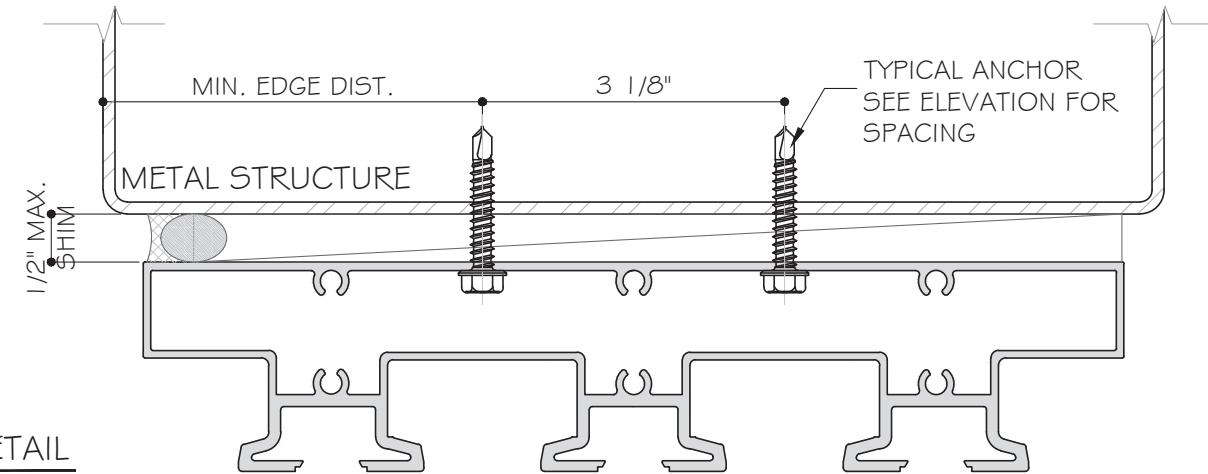
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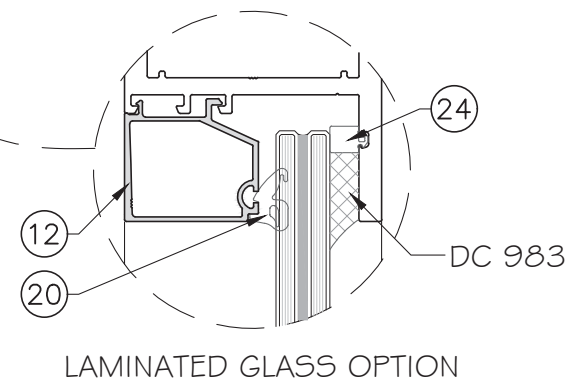


TYPICAL ANCHOR
SEE ELEVATION FOR SPACING

1
D3
DETAIL



METAL STRUCTURES NOT BY NR WINDOWS, MUST
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SEE ANCHOR LAYOUT
ON SHEET E1#E2

2
D3
DETAIL

TYPICAL ANCHOR
SEE ELEVATION FOR SPACING

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FL #30303.1

YOUNG WANG
P.E.
FLORIDA REGISTRATION
FL #55983
CA #528677

August 11th, 2023

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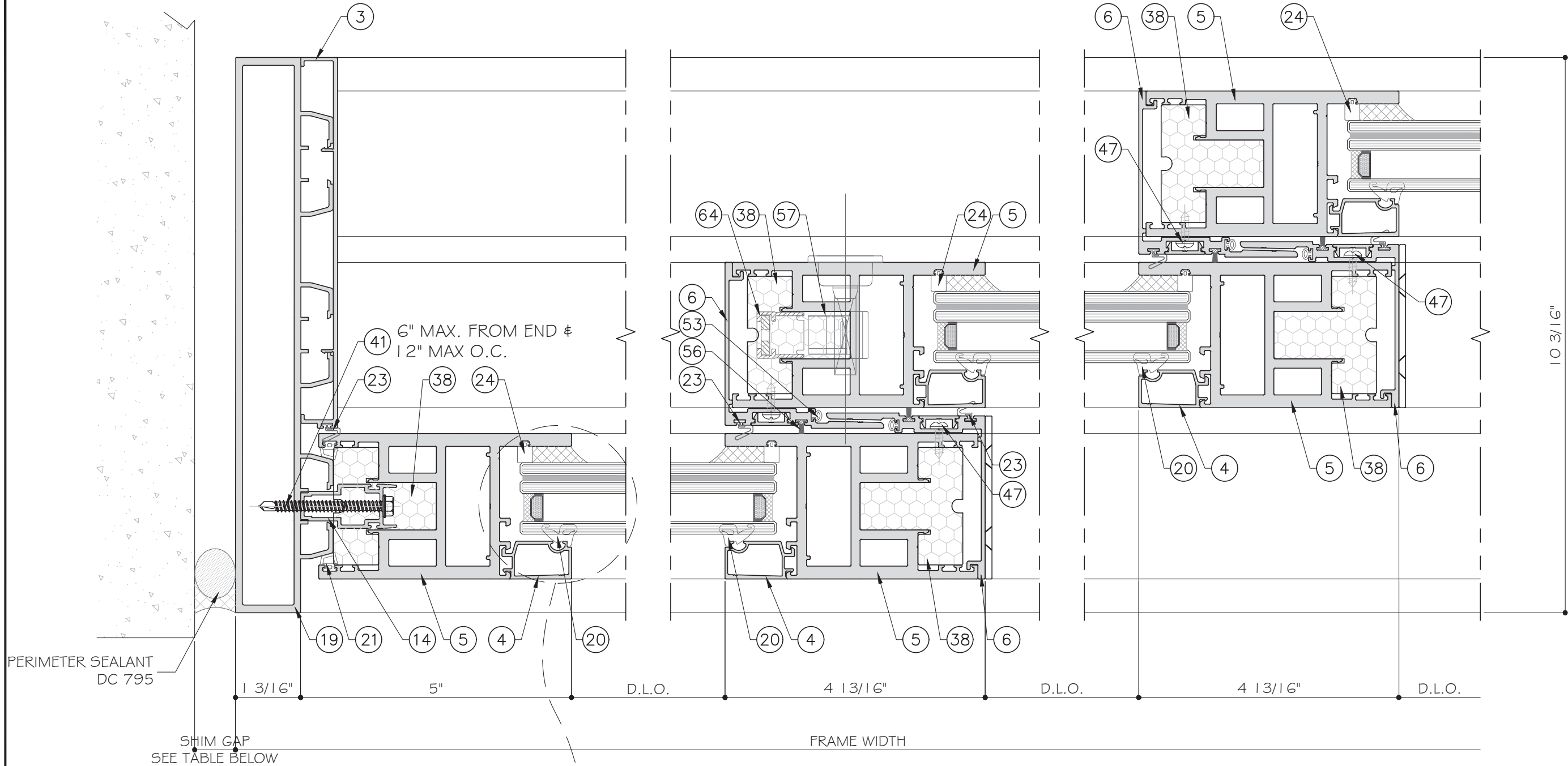
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08.11.2023

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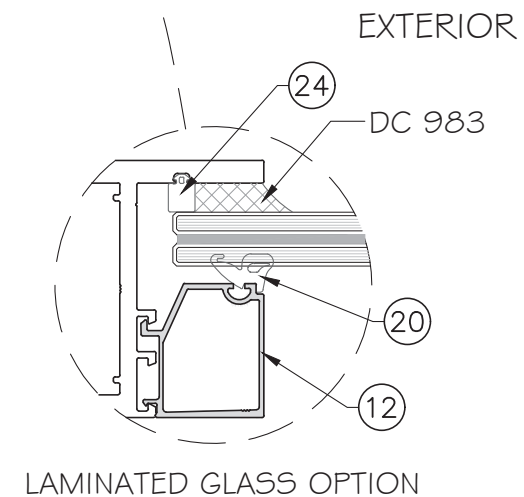


PERIMETER SEALANT
DC 795

SHIM GAP
SEE TABLE BELOW

FRAME HEIGHT	JAMB GAP	
	MIN.	MAX.
96"	1/2"	3/4"
120"	5/8"	3/4"
132"	1 1/16"	3/4"
144"	3/4"	3/4"

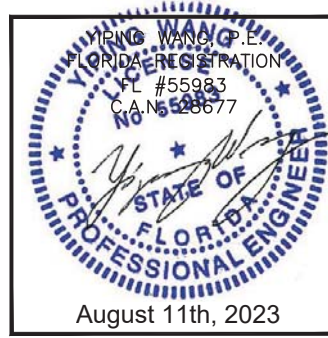
1
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DETAIL



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DETAIL

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DETAIL

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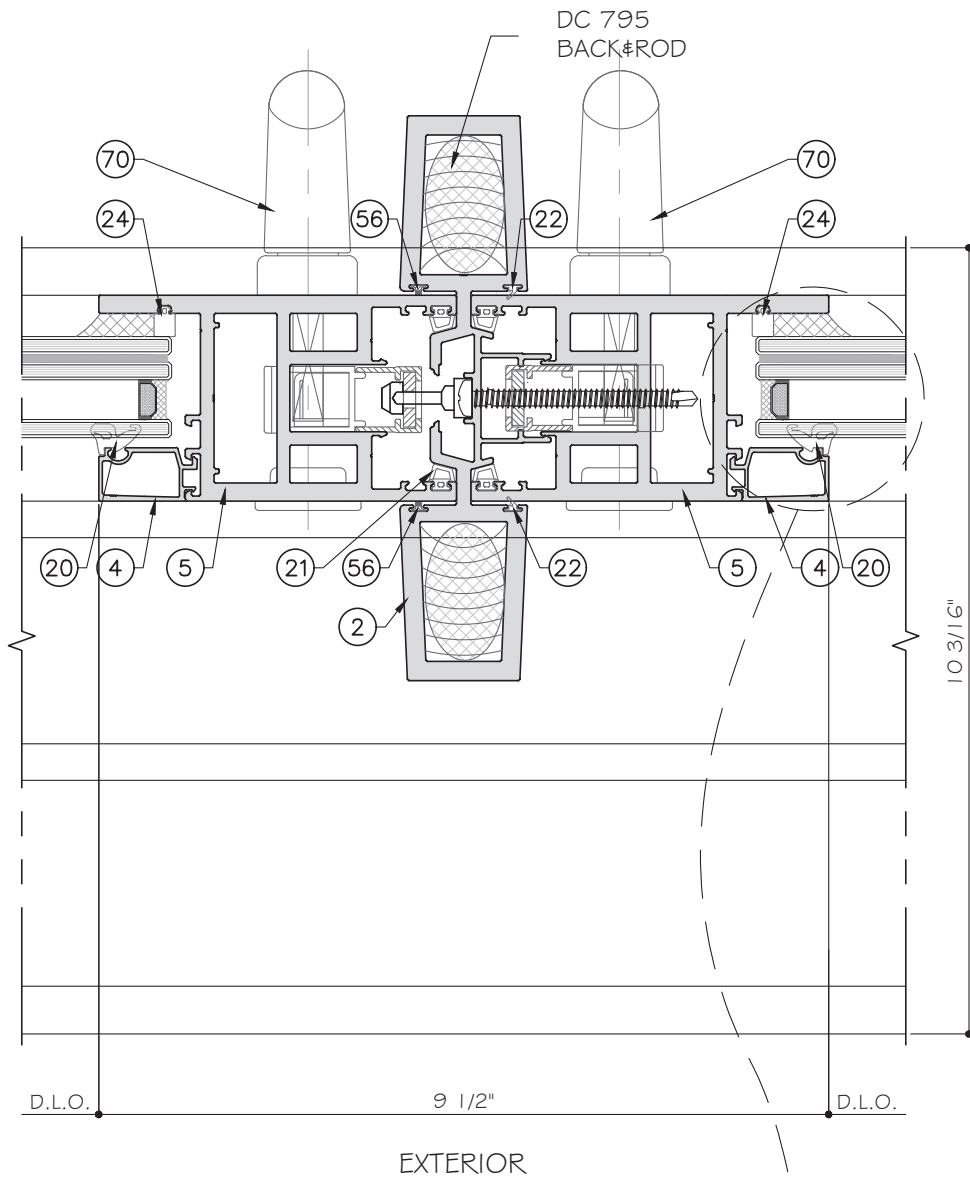
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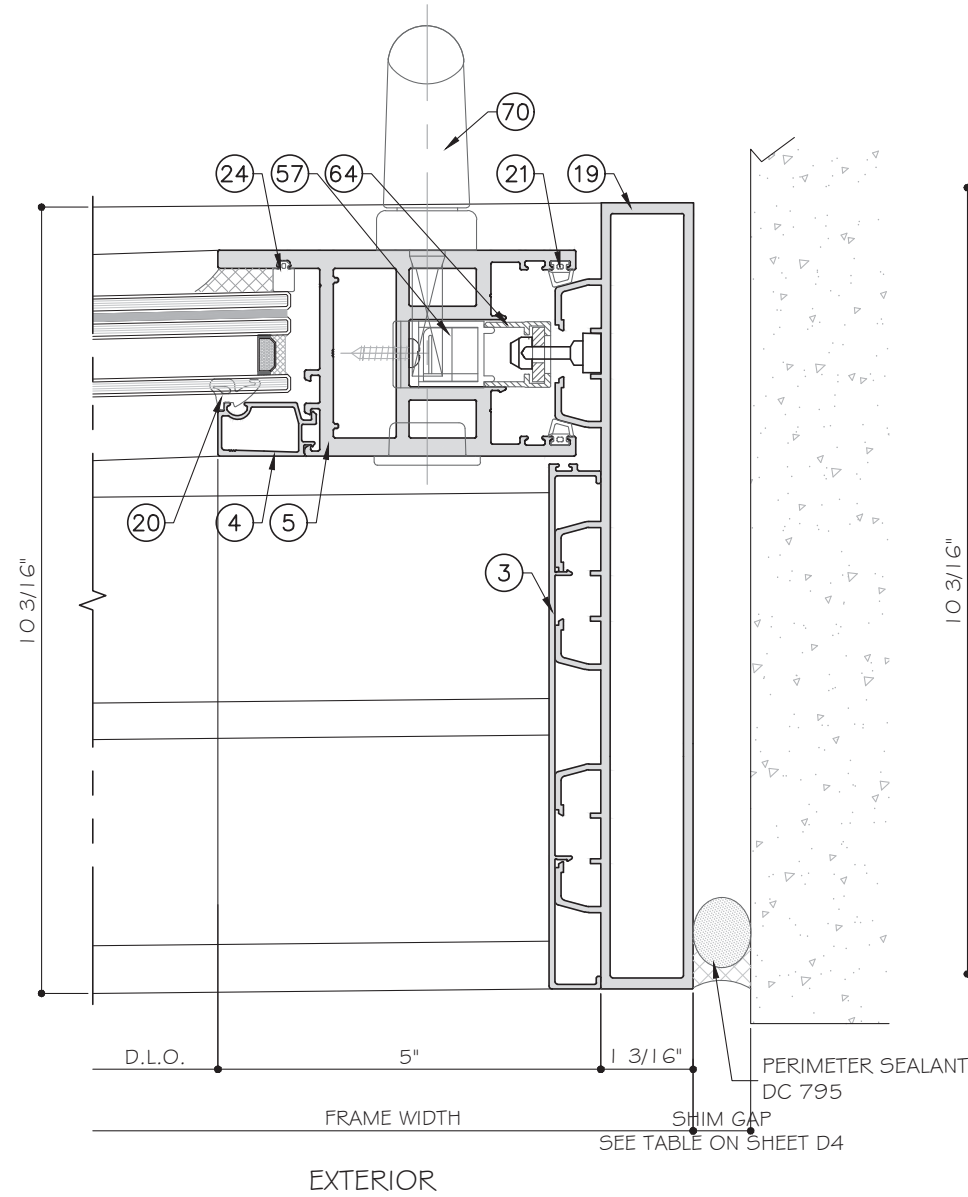
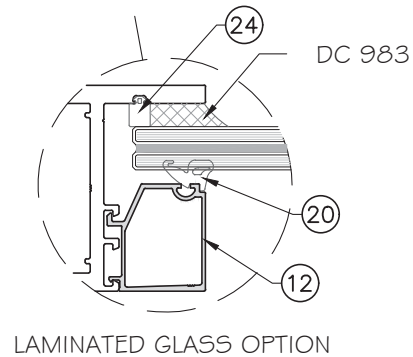
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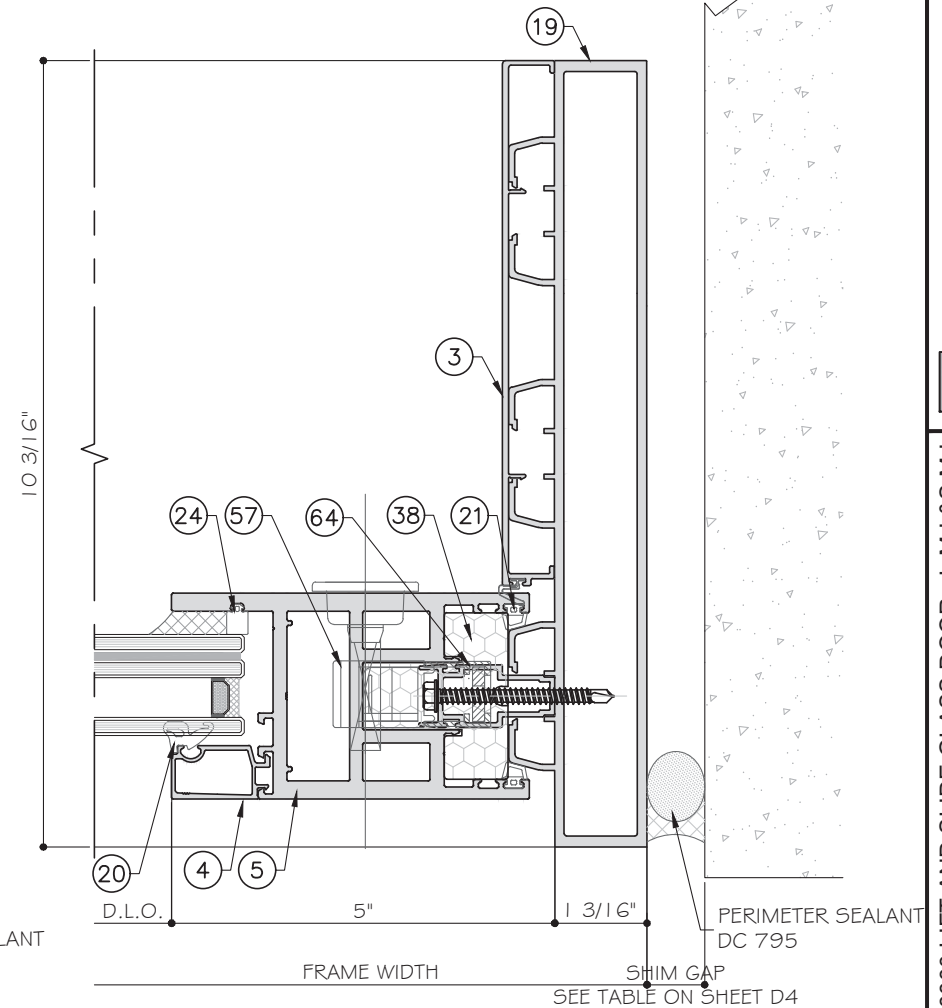
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1
D5
DETAIL

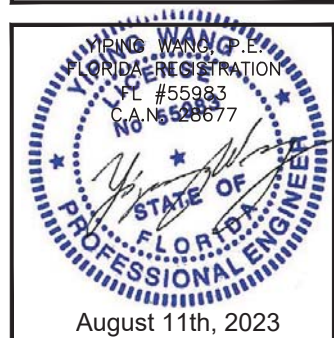


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D5
DETAIL



3
D5
DETAIL

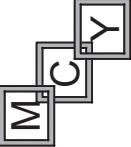
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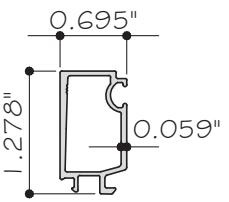


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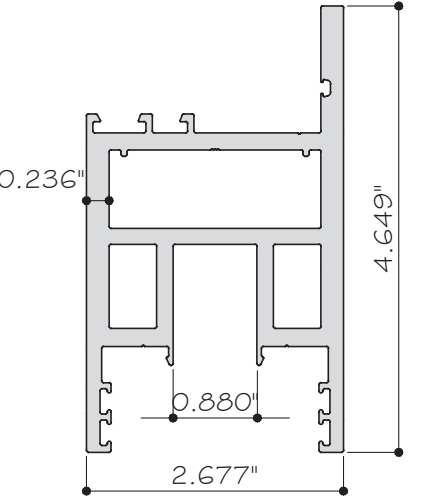
12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027

P: 305 271 0117
www.MCYEngineering.com mcy@mcyengineering.com

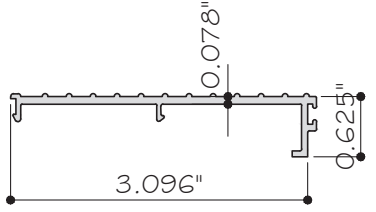
Rev. No.	Date	Drawn By	Description
R3	08.11.2023	James	FBC 2023
Drawn Date 08.11.2023			
Scale			
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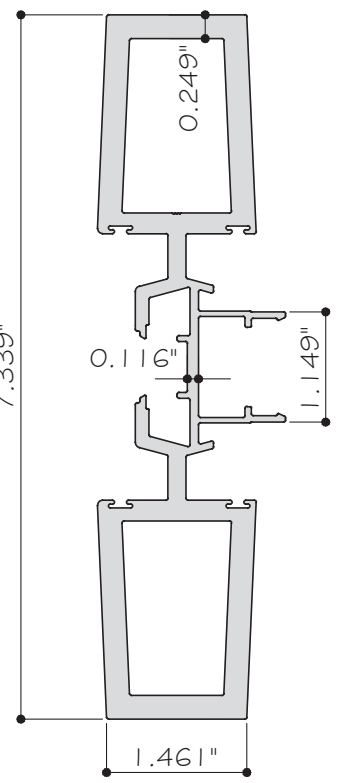
④ GLAZING BEAD FOR IGU
170-209 6063-T5



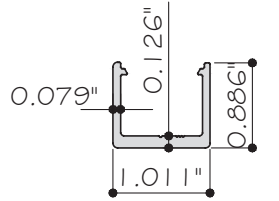
⑤ FRAME PANEL
110-211 6063-T6



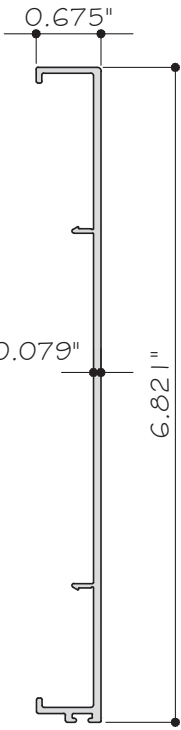
⑮ 3 TRACK THRESHOLD
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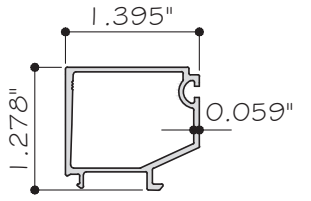
② ASTRIGAL
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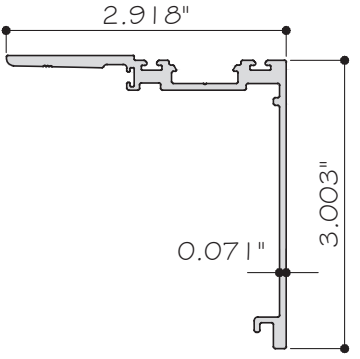
⑨ U-CHANNEL
110-206 6063-T6



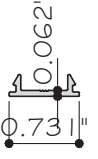
③ JAMB COVER
110-194 6063-T5



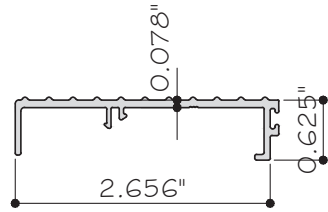
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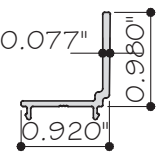
⑥ INTERLOCK
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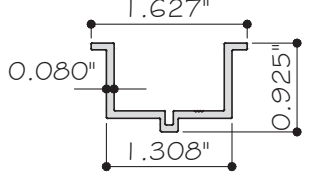
⑧ SCREW COVER
110-200 6063-T5



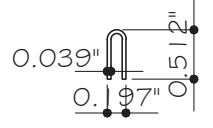
⑬ THRESHOLD
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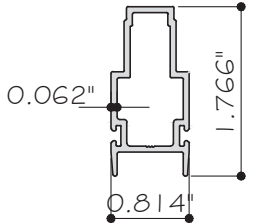
⑩ U-CHANNEL COVER
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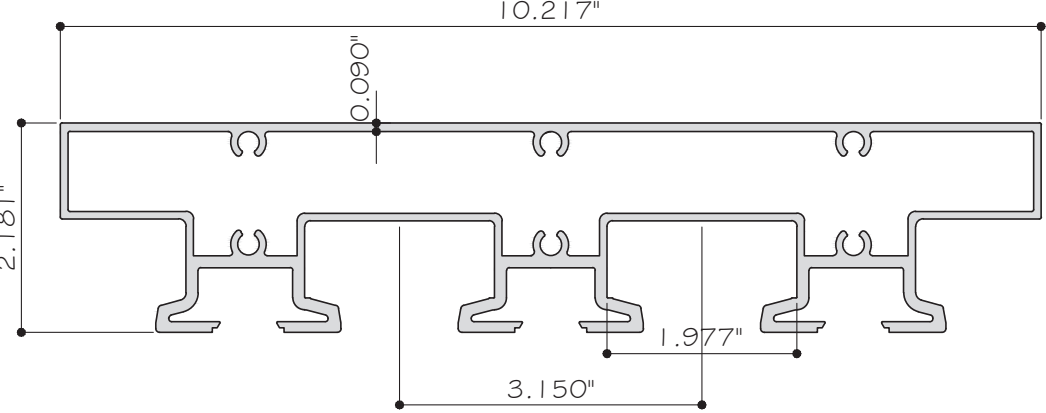
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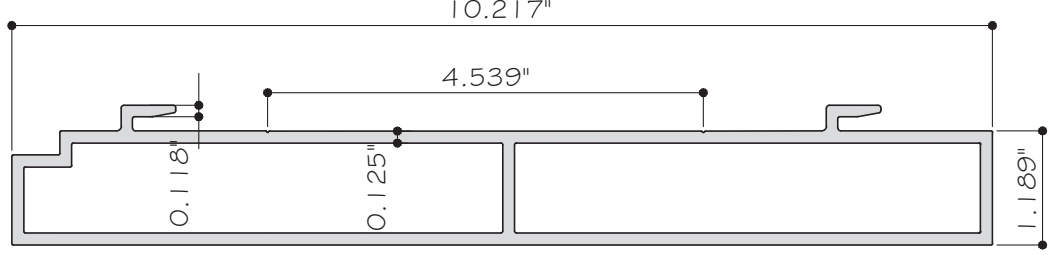
⑮ SCREW COVER
170-002 STEEL



⑭ FIXED LITE ANCHOR
110-201 6063-T5

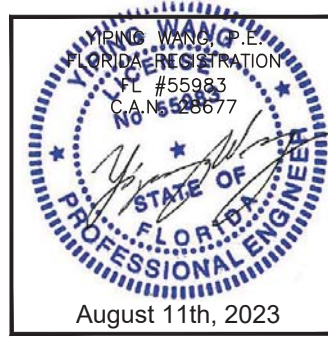


⑯ 3 TRACK HEAD
110-190 6063-T6



⑰ SILL RECEPTOR
110-192 6063-T6

FLORIDA APPROVAL:
FL #30303.1



August 11th, 2023

Rev.	Date	Drawn By	Description
R3	08.11.2023	James	FBC 2023

Drawn Date: 08.11.2023

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12781 MIRAMAR PKWY. STE.301

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mcy@mcyengineering.com

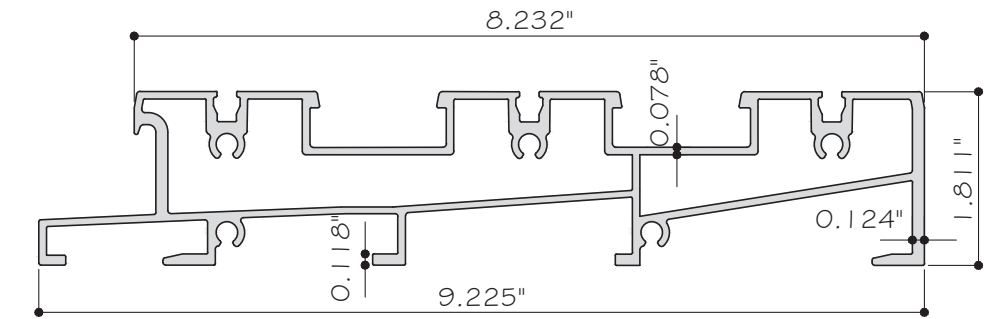
SERIES 10000 LIFT AND SLIDE GLASS DOOR - L.M.I.&S.M.I

N.R. ARCHITECTURAL PRODUCTS, INC.

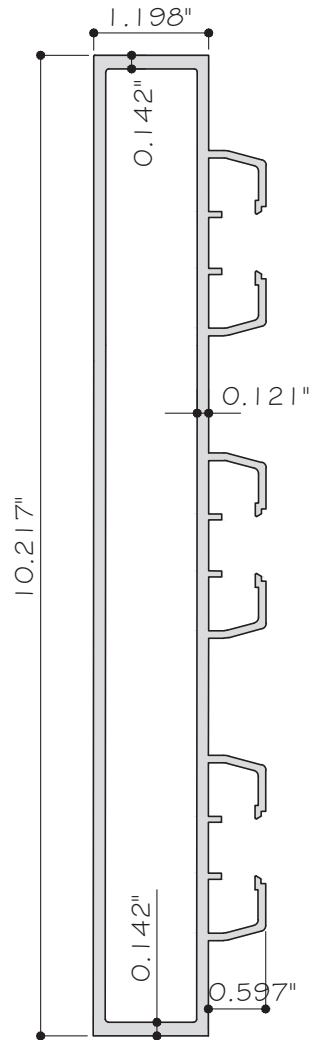
4348 WESTROADS DRIVE

WEST PALM BEACH, FL 33407

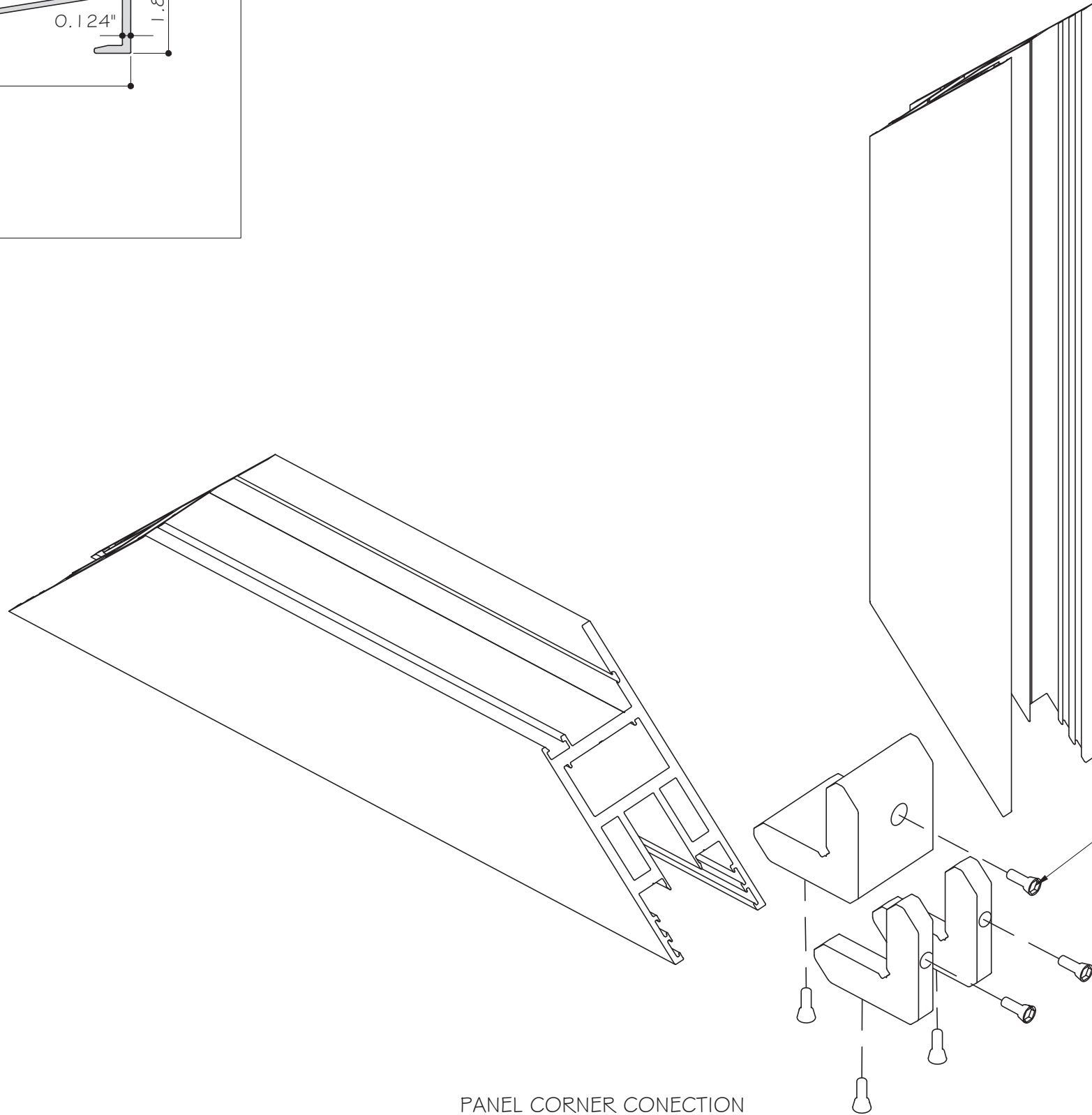
TEL: (561) 844-1121



18 SILL
110-189 6063-T6

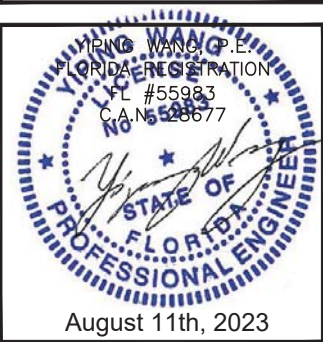


19 JAMB
110-191 6063-T6



PANEL CORNER CONECTION

FLORIDA APPROVAL:
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Rev. No.	R3	Date	08.11.2023
Drawn By	James	Rev. No.	FBC 2023
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