

ES WINDOWS, INC. SERIES SGD 2020T SLIDING GLASS DOOR NON IMPACT

DOORS RATED FOR NON IMPACT.

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 7TH EDITION (2020)/ 8TH EDITION (2023) OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE (NON-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 7TH EDITION (2020) / 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 7-16/ 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.

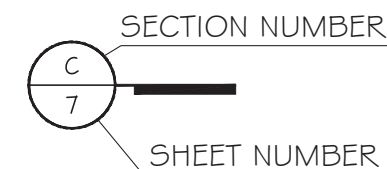
INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ 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 G1 FOR GLASS LOAD CAPACITY. SEE CHART ON SHEET K1 FOR INTERLOCK OPTIONS AND APPROVED DESIGN LOAD.
- STEP 4** FOR JAMB AND POCKET ANCHOR, SEE OPTIONS AND SPACING ON SHEETS J1 AND J2. HEAD & SILL ANCHOR OPTION AND LOAD CAPACITY SEE SHEET A1 AND A2, SEE ANCHOR LAYOUT ON SHEET E1 TO E4.
- 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 #40525.2

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.

YIXING WANG
FLORIDA REGISTRATION
#55983
C.A.N. No. 552697
OCTOBER 25th, 2023
PROFESSIONAL ENGINEER
STATE OF FLORIDA

ES-SGD2020T SLIDING GLASS DOOR (N.I.)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.
Miami, FL 33138

TEL. (305) 624-7775



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

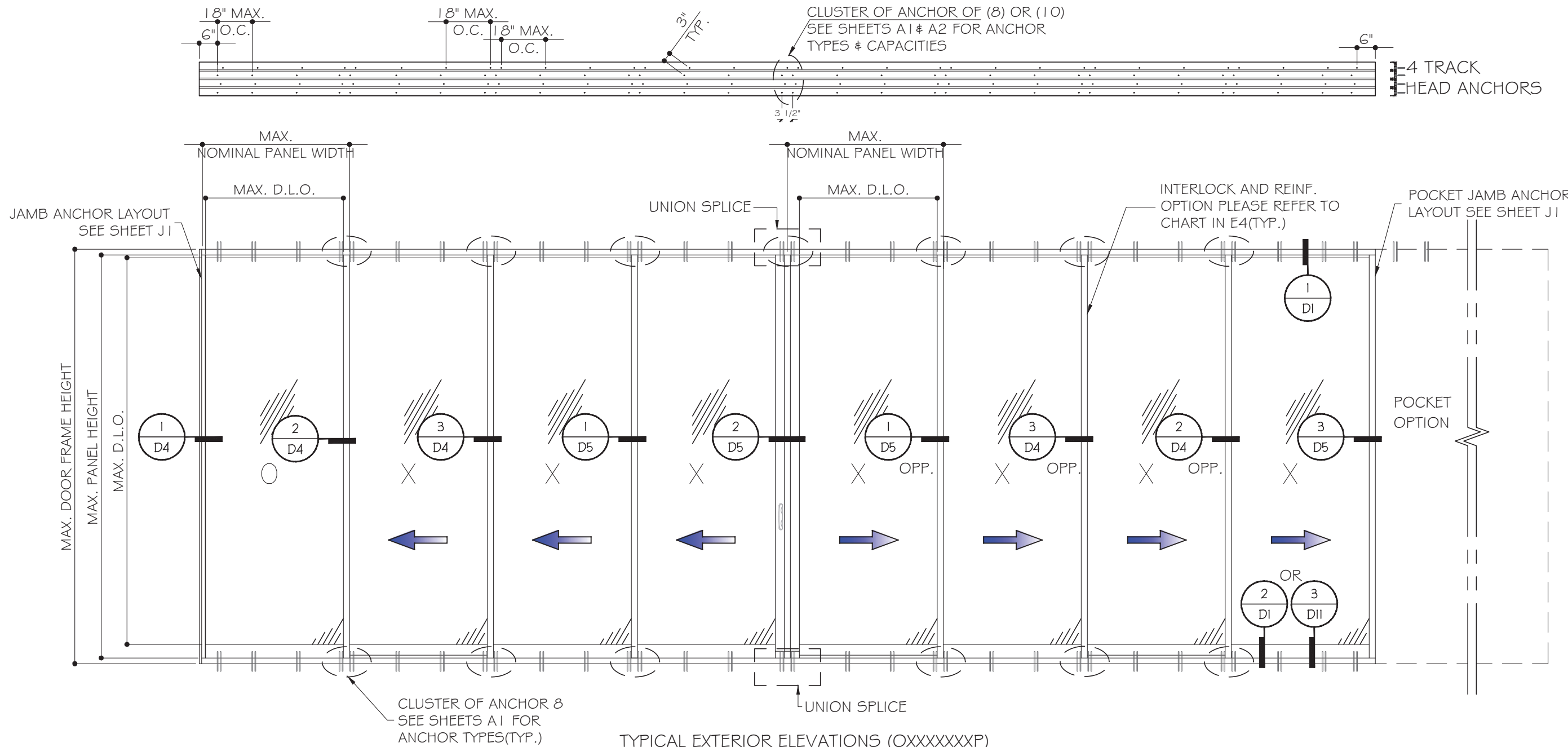
Drawn Date: 09.15.2023
Scale: AS SHOWN

DRAWING NO. AD21-57

COVER

Sheet No. 01 OF 35

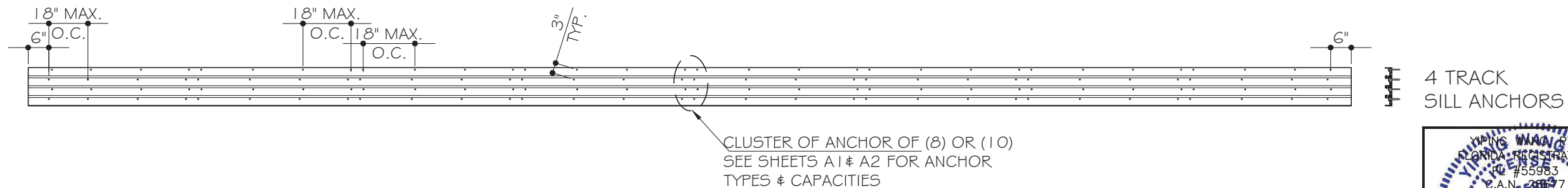
October 25th, 2023



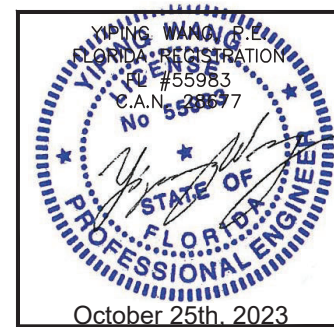
TYPICAL EXTERIOR ELEVATIONS (OXXXXXXXP)

(SEE SHEET E5 TO E6 FOR APPROVED CONFIGURATIONS)

(SEE CHART ON G1 & K1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2 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

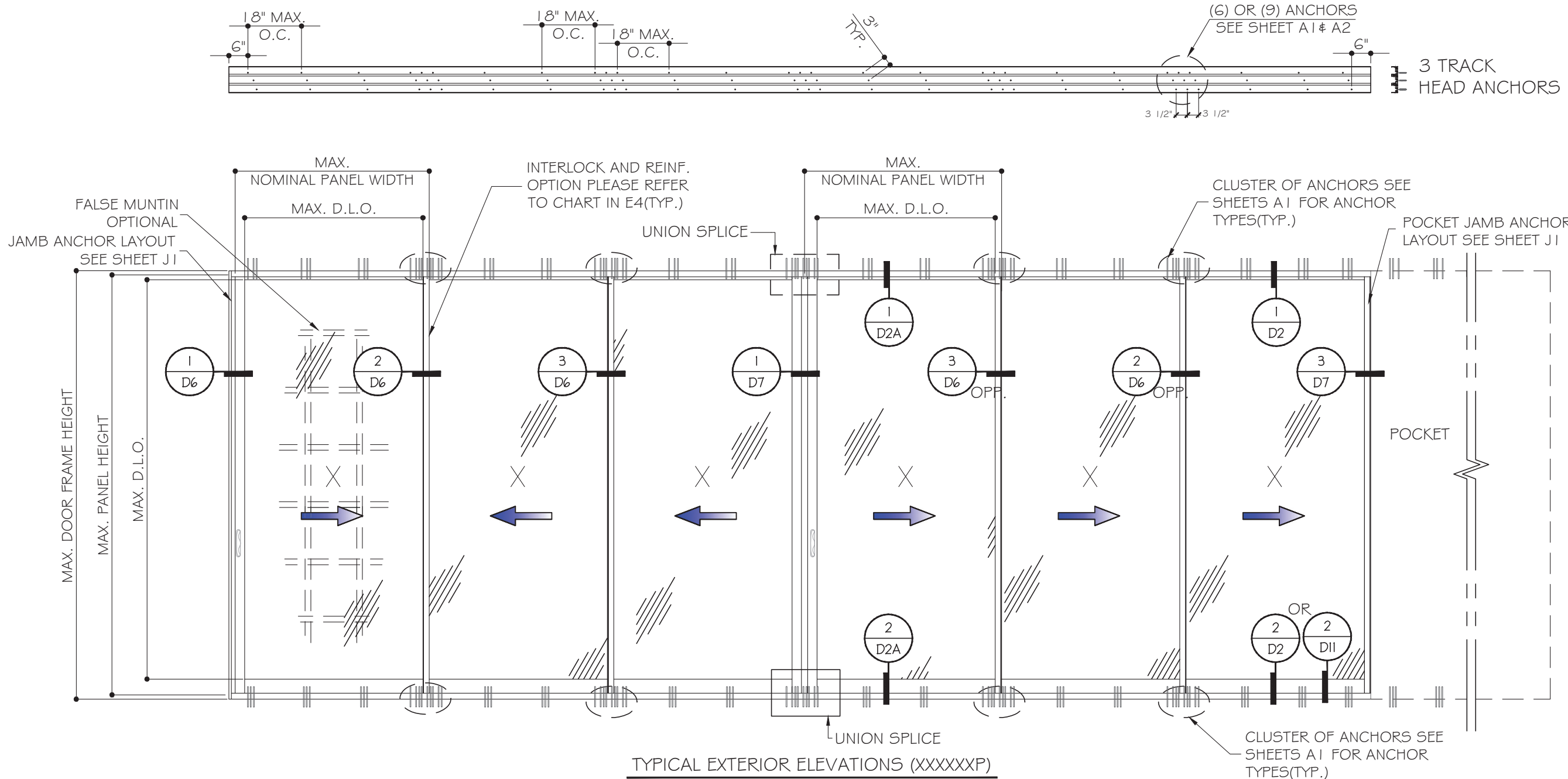
ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
 10653 NE Quaybridge Ct.
 Miami, FL 33138
 TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FEB 2023

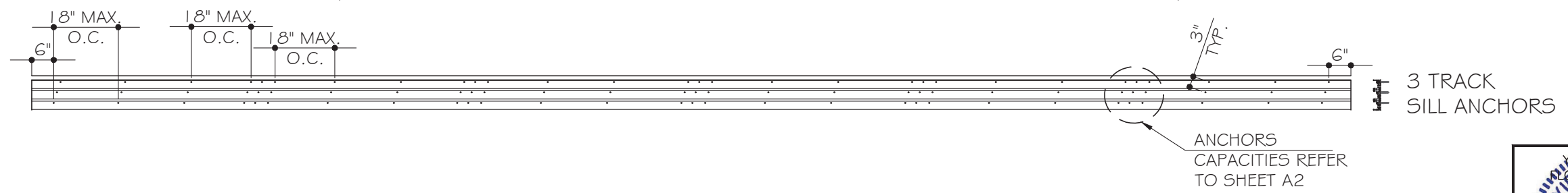
Drawn Date: 09.15.2023 Scale: _____

DRAWING NO. **AD21-57**

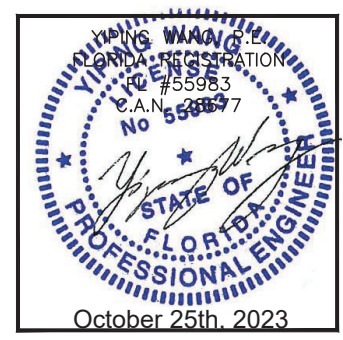
Sheet No. **E1**
 02 OF 35



TYPICAL EXTERIOR ELEVATIONS (XXXXXP)
 (SEE SHEET E7 TO E8 FOR APPROVED CONFIGURATIONS)
 (SEE CHART ON G1 & K1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)



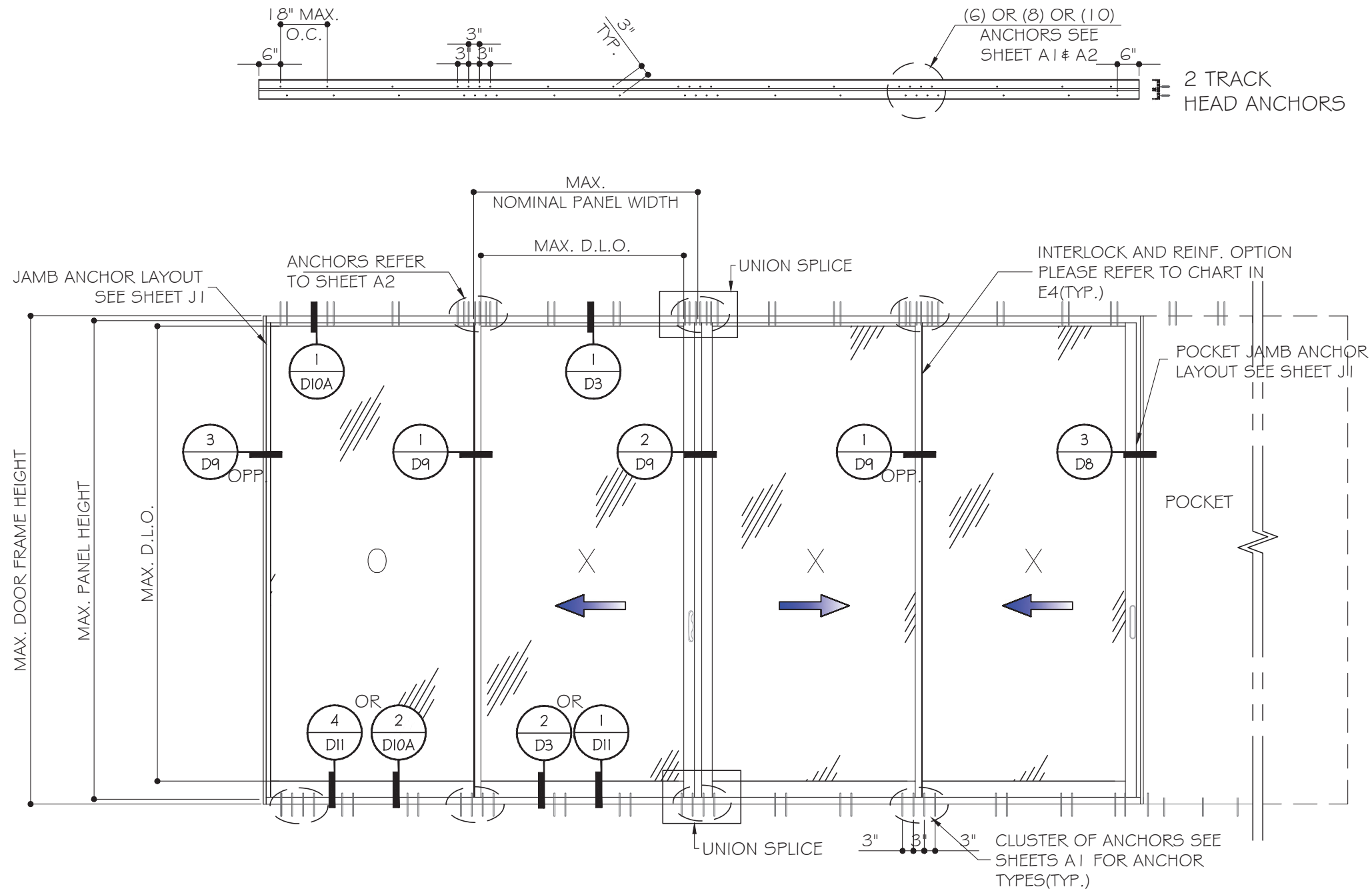
NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2 1/16"
 D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"



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

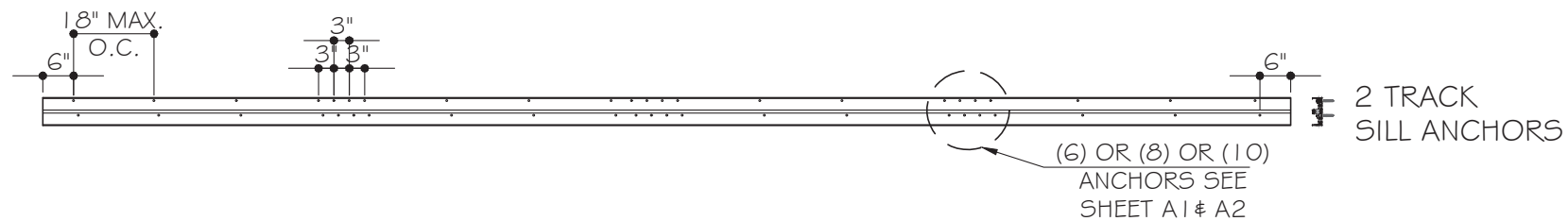
ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
 10653 NE Quaybridge Ct.
 Miami, FL 33138
 TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023
Drawn Date: 09.15.2023		Scale:	
DRAWING NO. AD21-57			
Sheet No. E2			
October 25th, 2023			
03 OF 35			

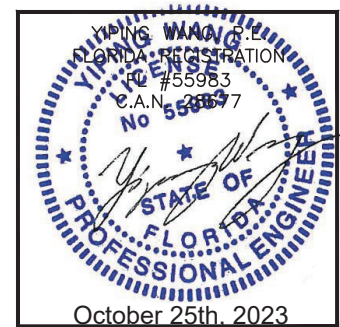


TYPICAL EXTERIOR ELEVATIONS (XXXXP)

(SEE SHEET E9 TO E10 FOR APPROVED CONFIGURATIONS)
 (SEE CHART ON G1 & K1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)



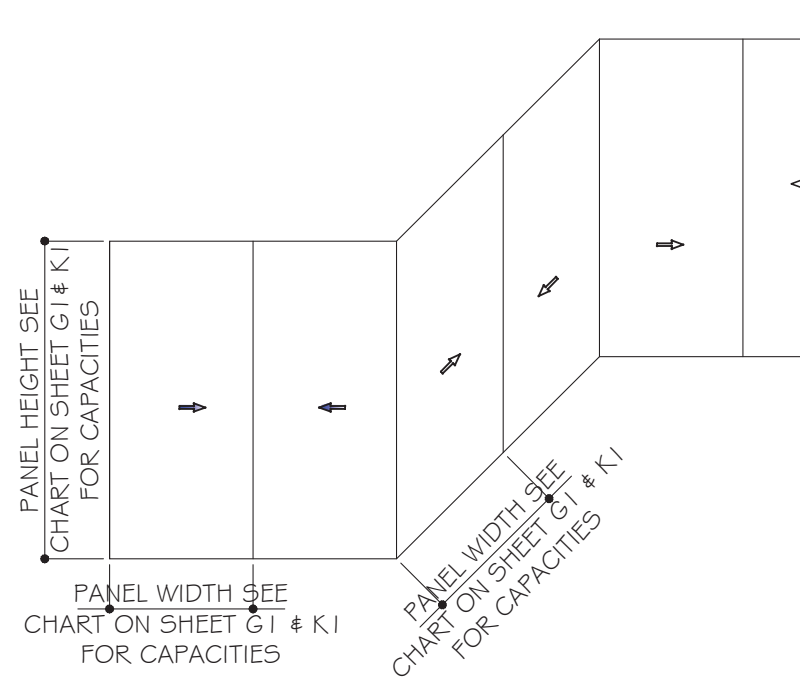
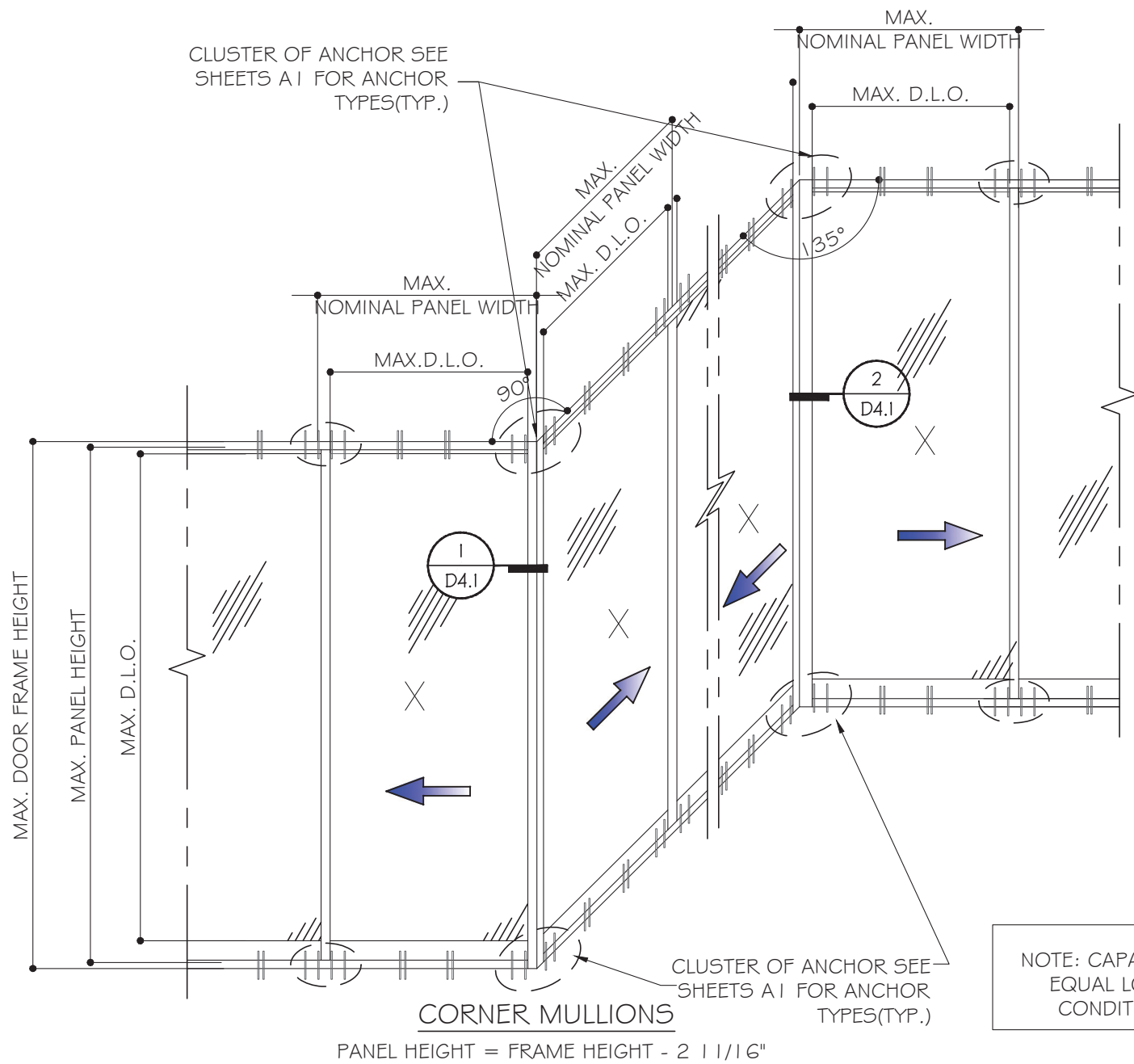
NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2 1/16"
 D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"



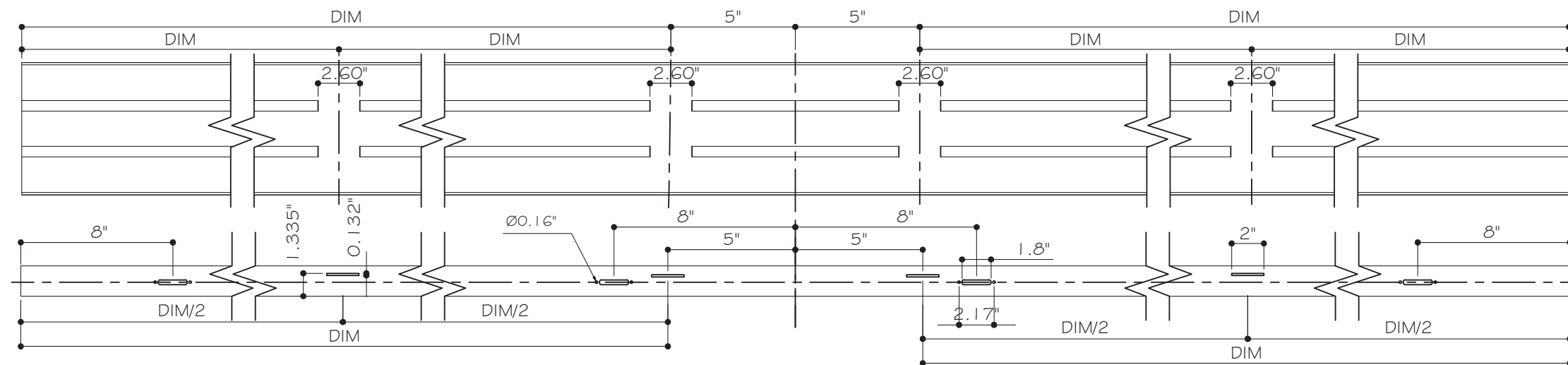
MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027 P: 305.271.0117
 www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
 10653 NE Quaybridge Ct.
 Miami, FL 33138
 TEL. (305) 624-7775

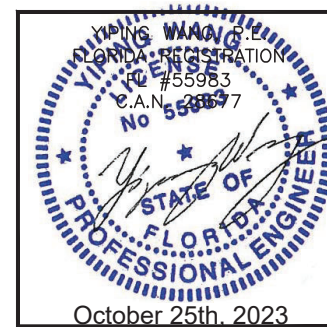
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023
Drawn Date	09.15.2023	Scale	
DRAWING NO. AD21-57			
E3			
Sheet No. 04 OF 35			



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



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 (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	Jamee	UPDATE TO FCC 2023

Drawn Date: 09.15.2023 Scale: _____

DRAWING NO. **AD21-57**

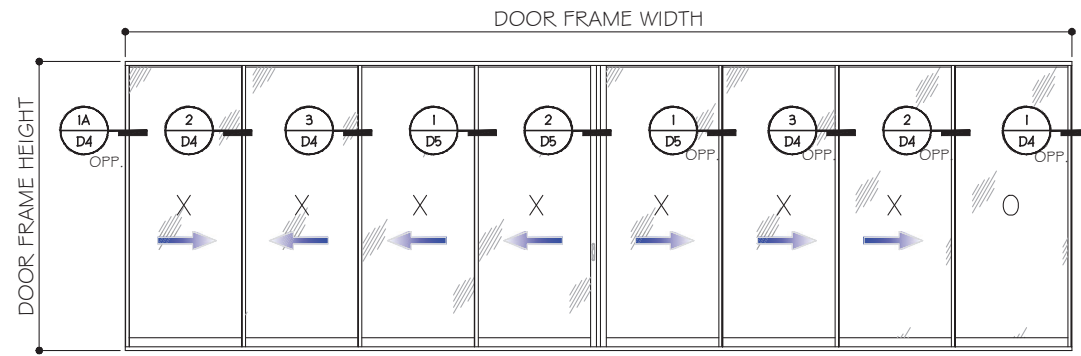
E4

Sheet No. **05 OF 35**

October 25th, 2023

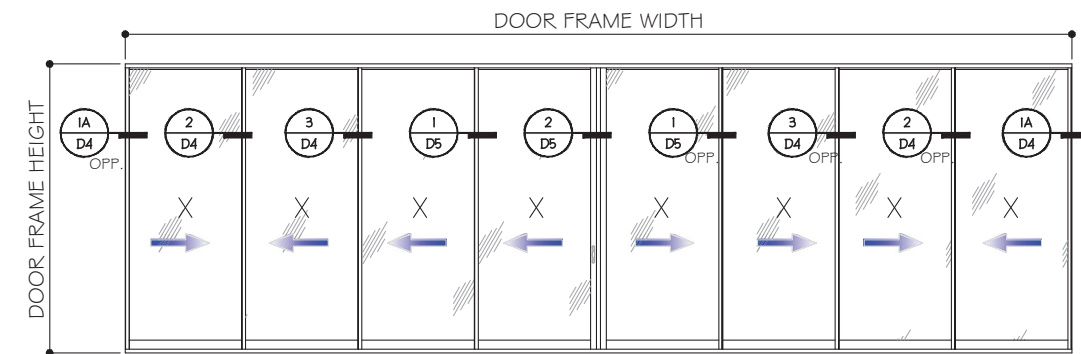
APPROVED CONFIGURATION DOORS

(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



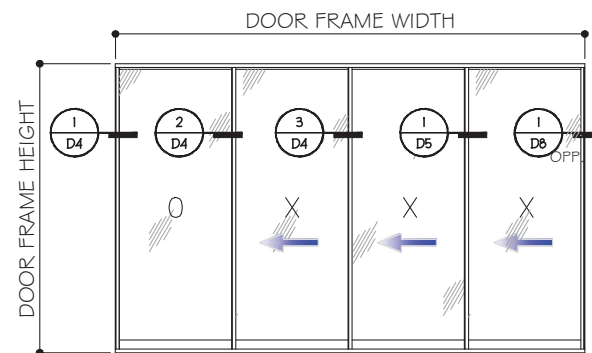
FOUR (4) TRACKS

XXXXXXO (SHOWN)
OXXXXXX



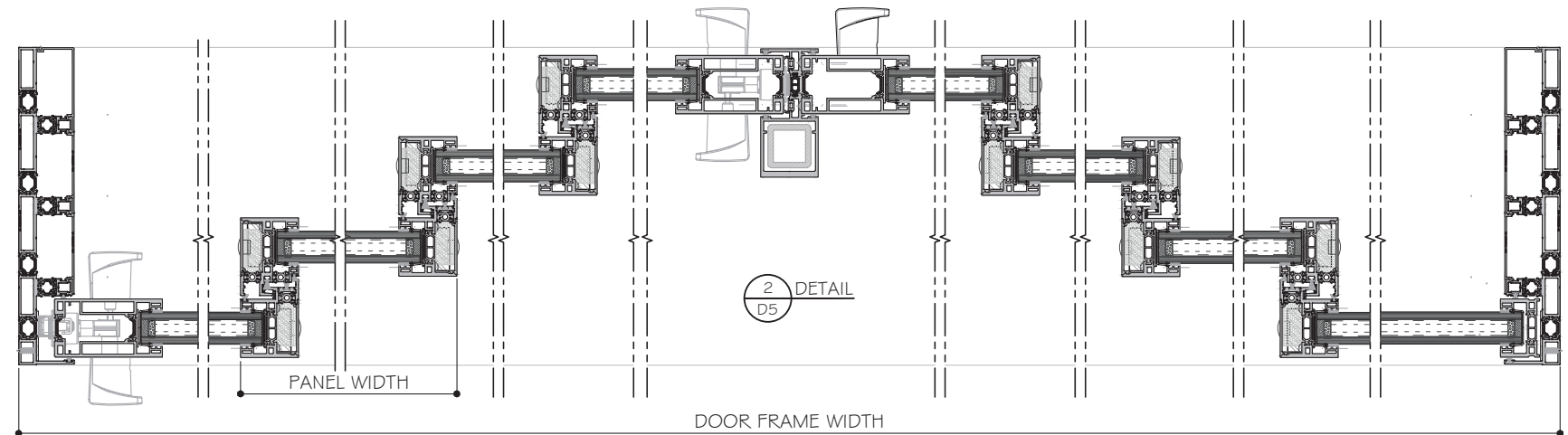
FOUR (4) TRACKS

XXXXXXX (SHOWN)
OXXXXXO



FOUR (4) TRACKS

OXXX (SHOWN)
XXXO
XXXX



1A DETAIL
D4 OPP.

2 DETAIL
D4

3 DETAIL
D4

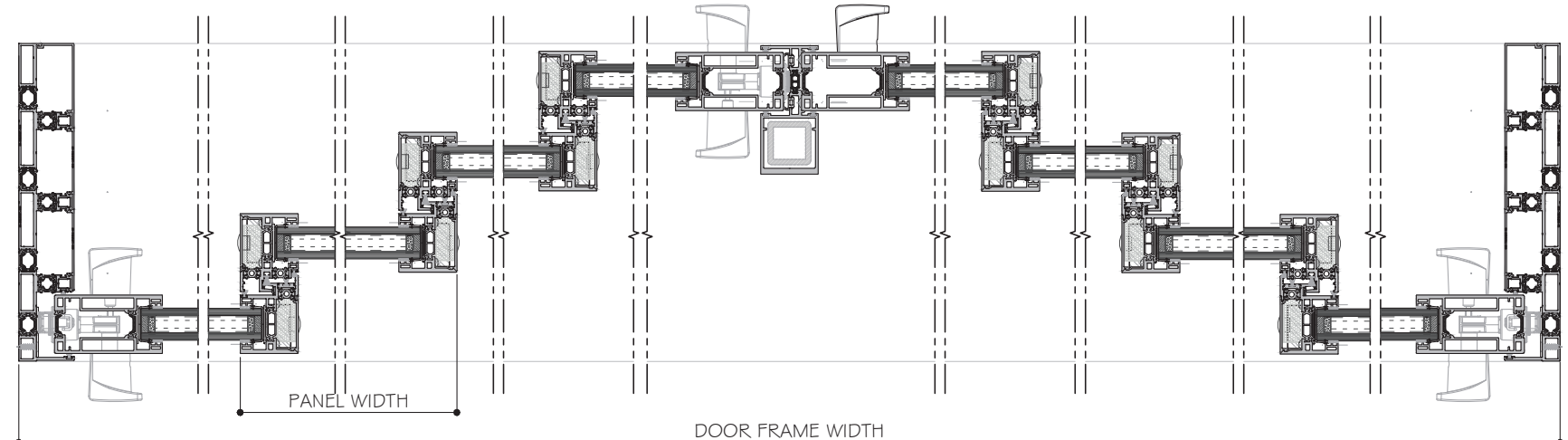
1 DETAIL
D5

1 DETAIL
D5 OPP.

3 DETAIL
D4 OPP.

2 DETAIL
D4 OPP.

1 DETAIL
D4 OPP.



1A DETAIL
D4 OPP.

2 DETAIL
D4

3 DETAIL
D4

1 DETAIL
D5

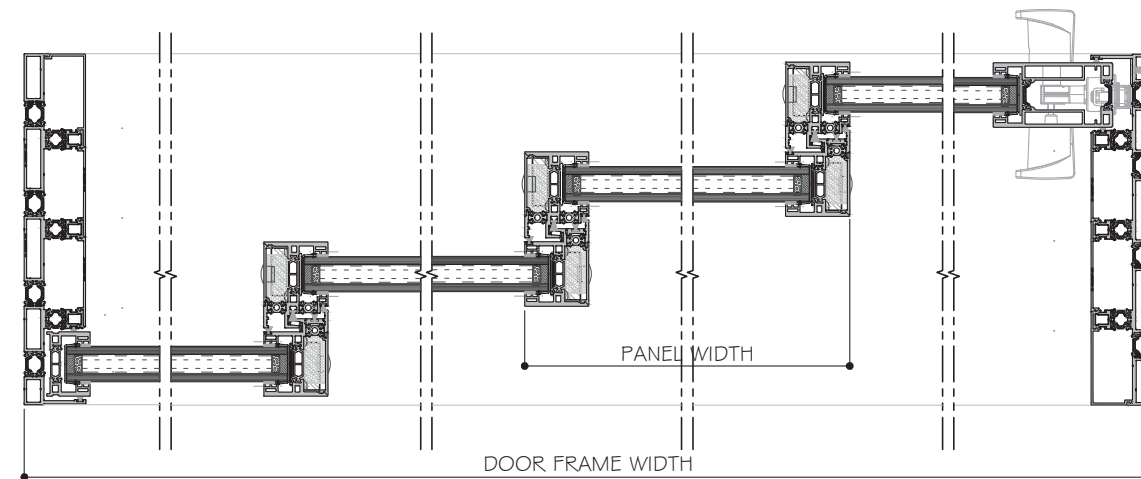
2 DETAIL
D5

1 DETAIL
D5 OPP.

3 DETAIL
D4 OPP.

2 DETAIL
D4 OPP.

1A DETAIL
D4



1 DETAIL
D4

2 DETAIL
D4

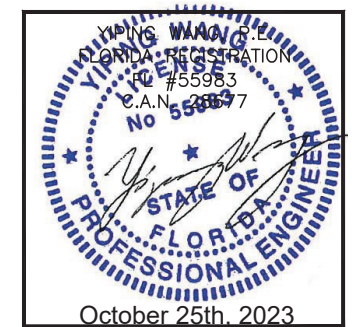
EXTERIOR
3 DETAIL
D4

1 DETAIL
D5

1 DETAIL
D5 OPP.

NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G1 FOR GLASS OPTION AND CAPACITY.
3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K1 BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4,
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.



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 (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

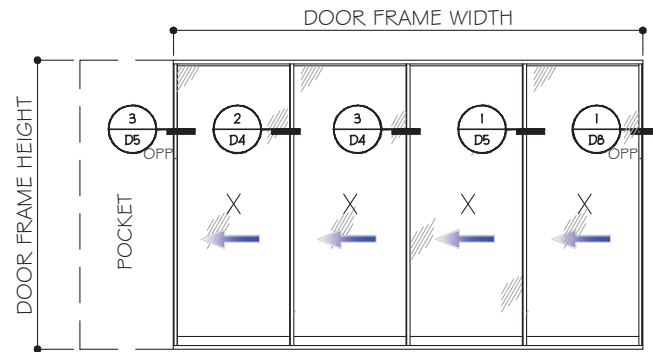
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

Drawn Date: 09.15.2023 Scale: _____

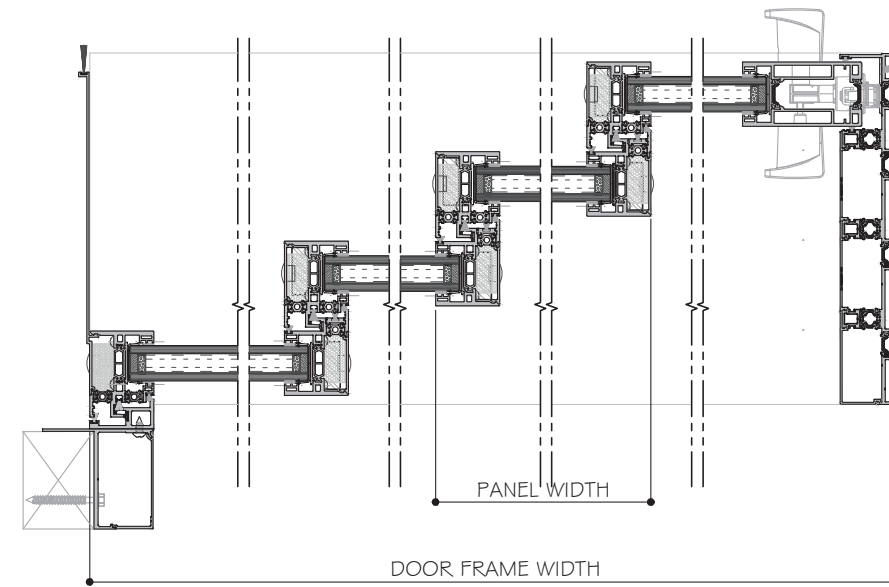
DRAWING NO. **AD21-57**

Sheet No. **E5**
06 OF 35

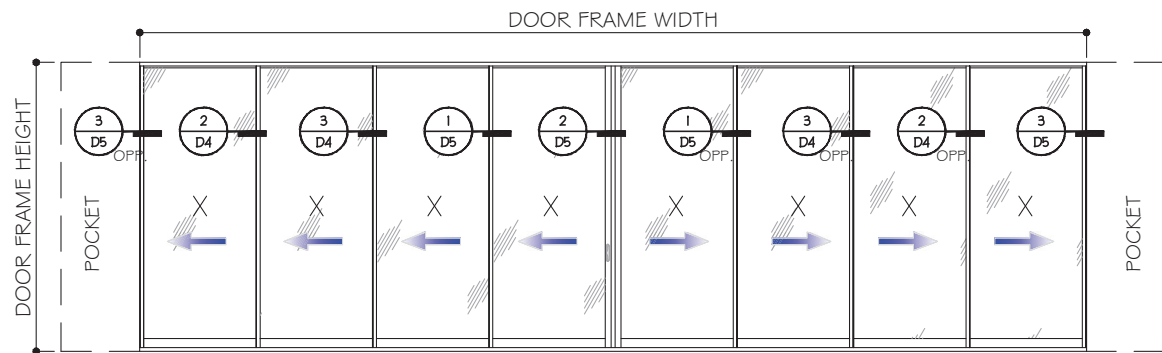
APPROVED CONFIGURATION DOORS
 (INTERLOCK OPTION LEVEL 1 SHOWN)
 SEE SHEET K.I FOR Dp AND INTERLOCK OPTIONS



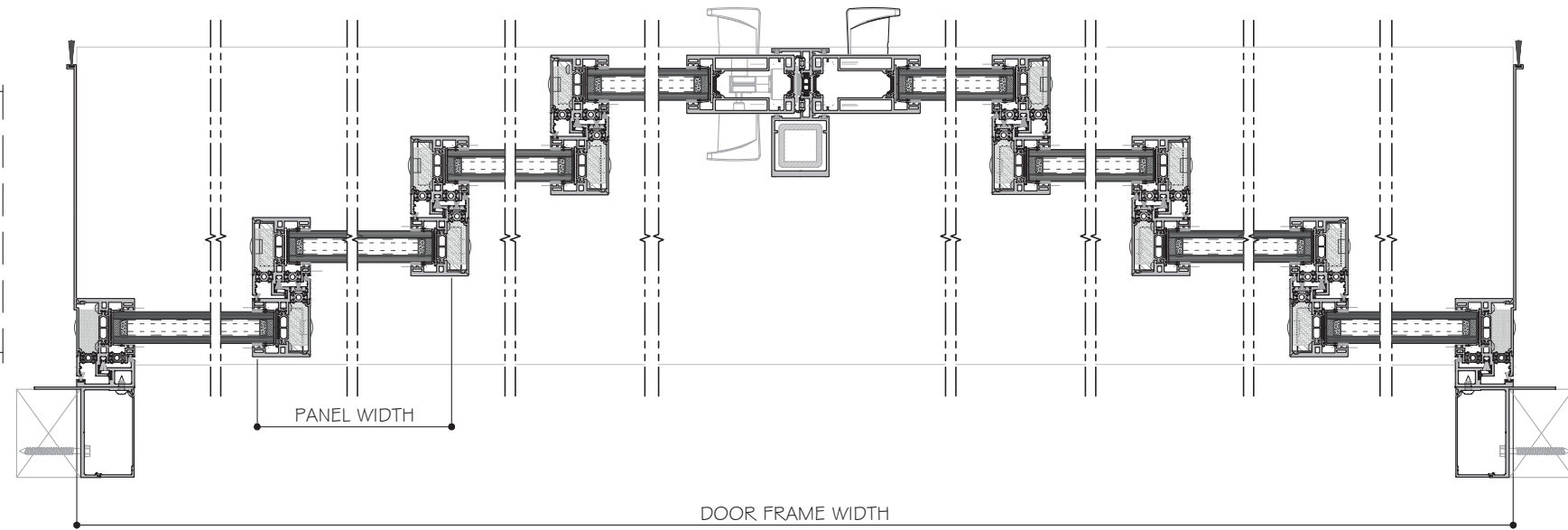
FOUR (4) TRACKS
 PXXX (SHOWN)
 XXXXP



3 D5 OPP. DETAIL
 2 D4 DETAIL
 3 D4 DETAIL
 1 D5 DETAIL
 1 D8 OPP. DETAIL



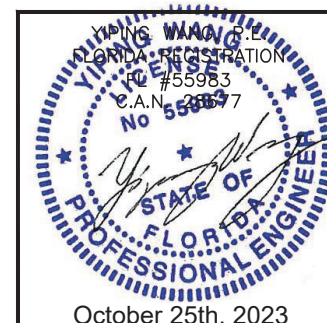
FOUR (4) TRACKS
 PXXXXXXXXP (SHOWN)
 PXXXXXXXX
 XXXXXXXXXXXP
 OXXXXXXXXP
 PXXXXXXXXO



3 D5 OPP. DETAIL
 2 D4 DETAIL
 3 D4 DETAIL
 1 D5 DETAIL
 2 D5 DETAIL
 1 D5 OPP. DETAIL
 3 D4 OPP. DETAIL
 2 D4 OPP. DETAIL
 3 D5 DETAIL

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 G.I FOR GLASS OPTION AND CAPACITY.
 3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K.I BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4,
 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.



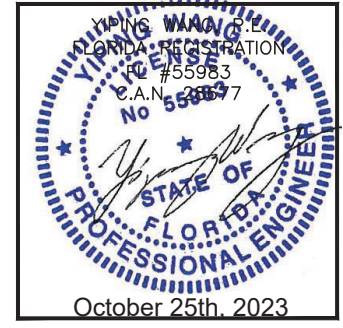
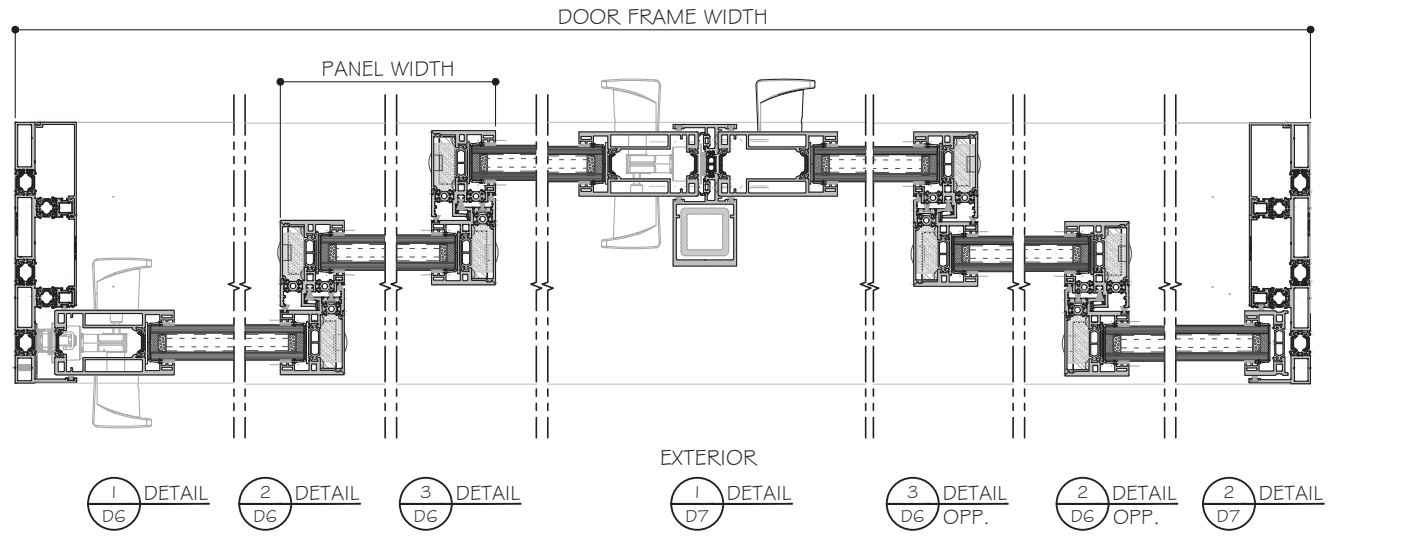
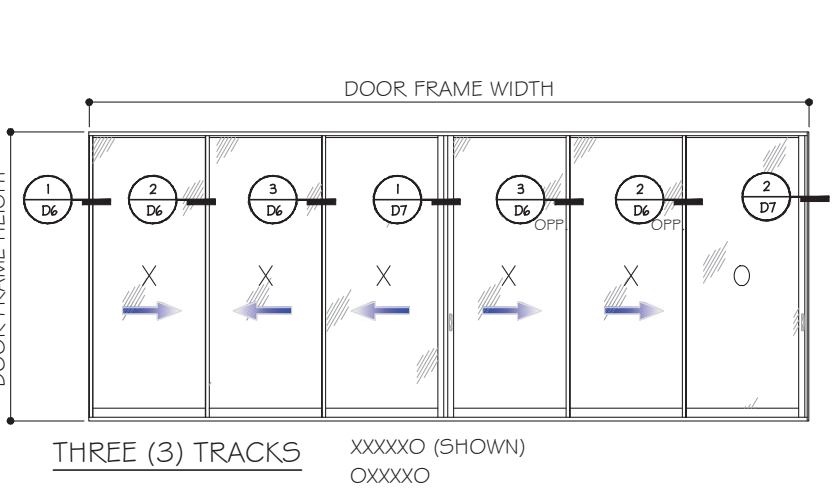
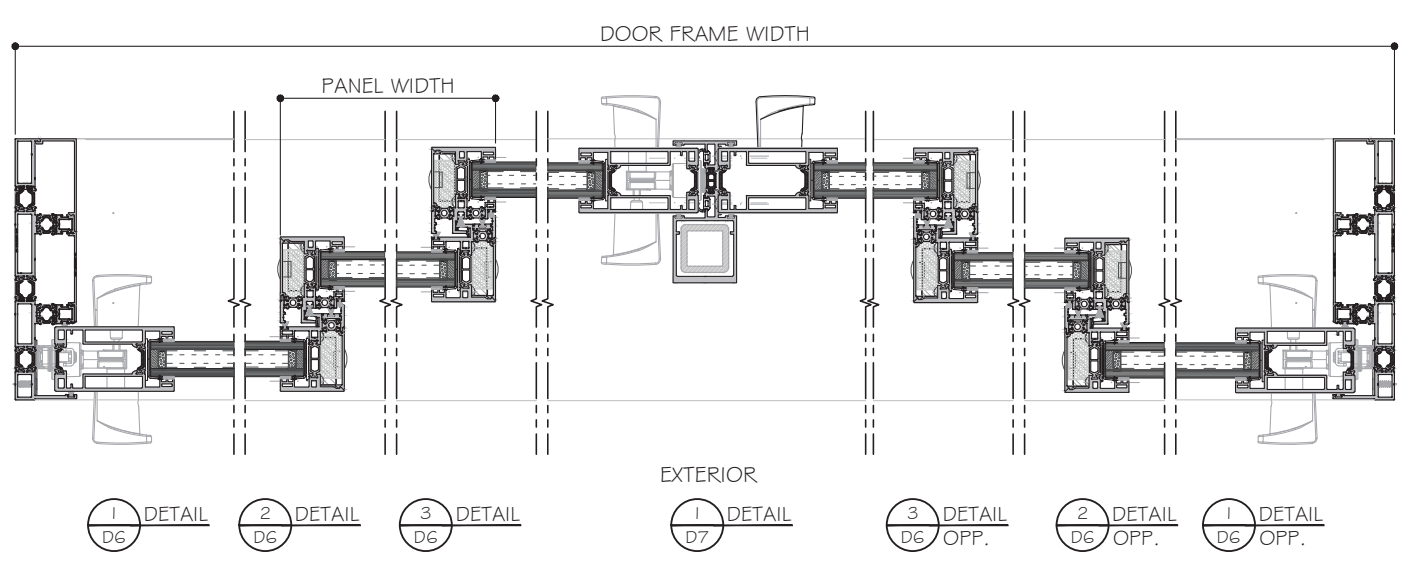
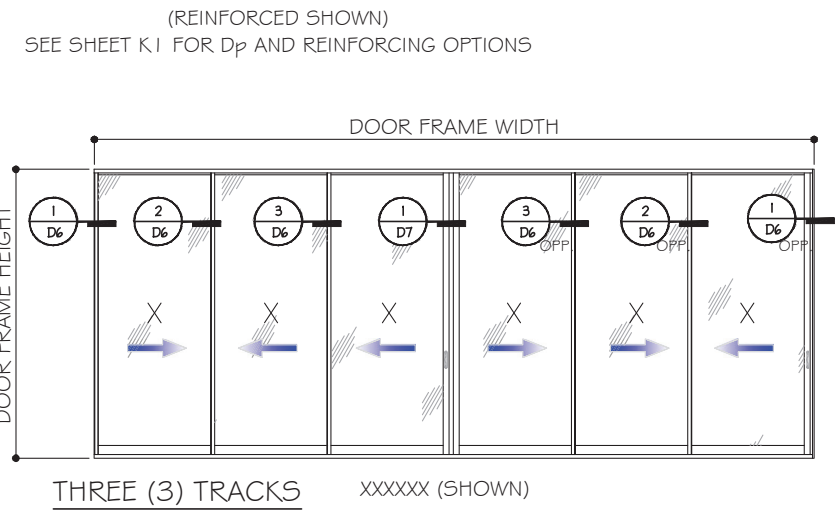
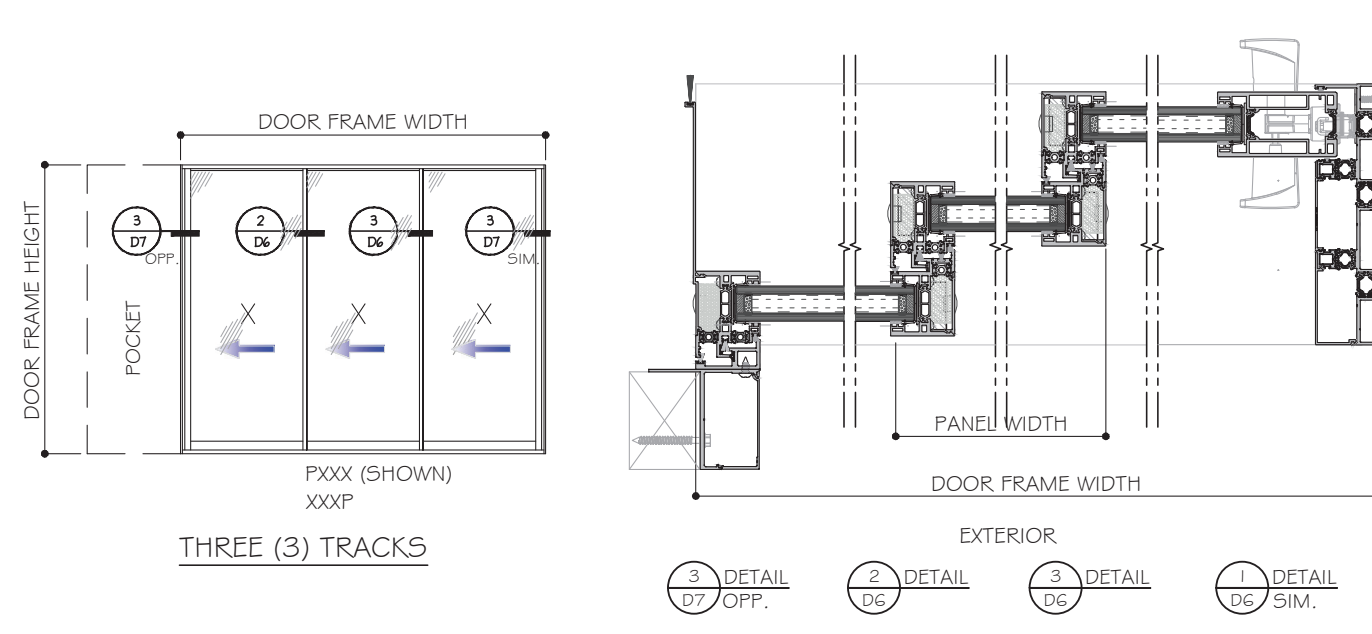
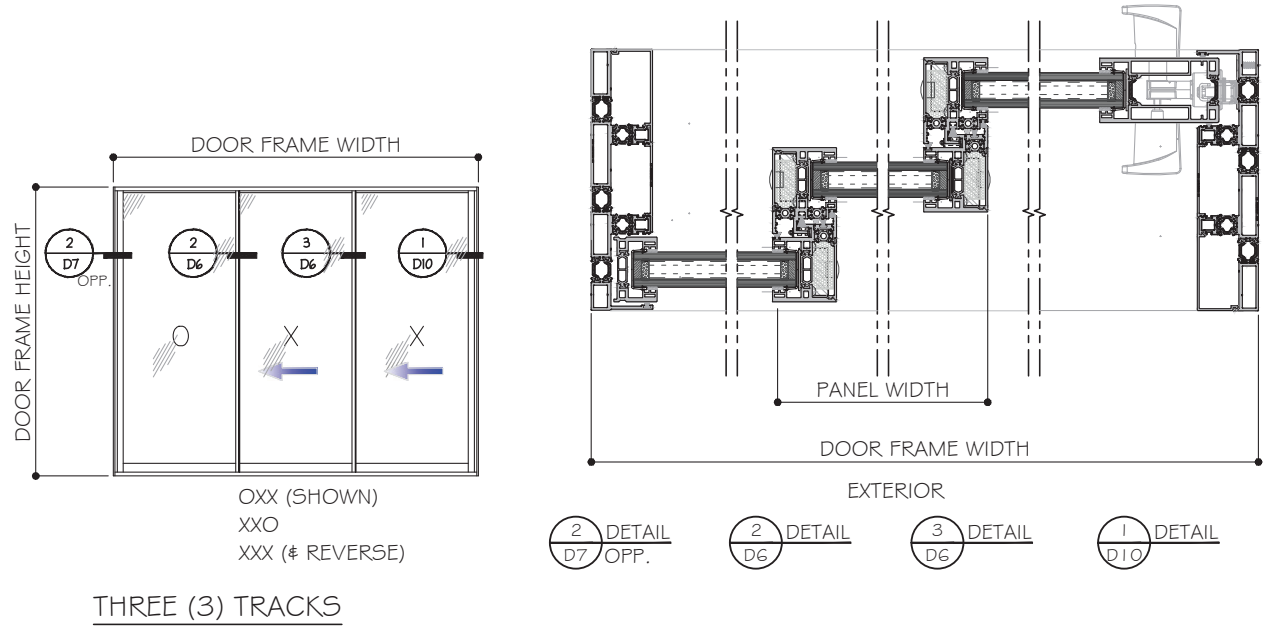
MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027
 P: 305.271.0117
 www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
 10653 NE Quaybridge Ct.
 Miami, FL 33138
 TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	Jamee	UPDATE TO FBC 2023

Drawn Date: 09.15.2023
 Scale:
 DRAWING NO.: AD21-57
 Sheet No.: E6
 07 OF 35

APPROVED CONFIGURATION DOORS
 (INTERLOCK OPTION LEVEL 1 SHOWN)
 SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



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

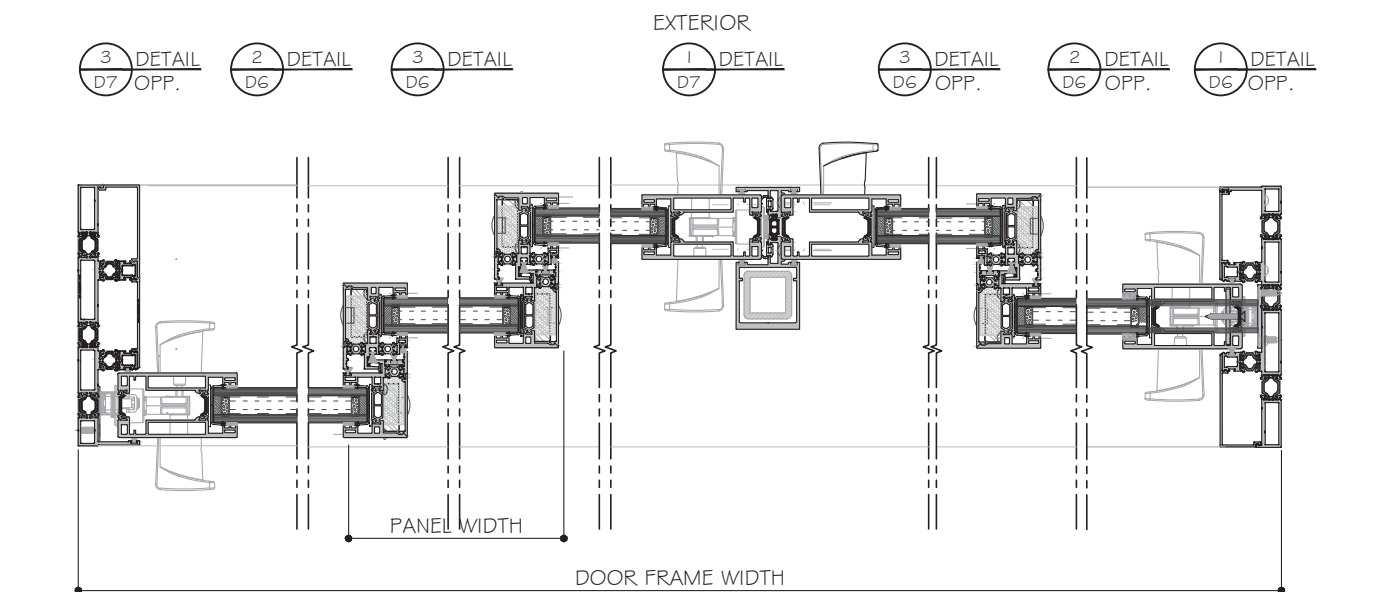
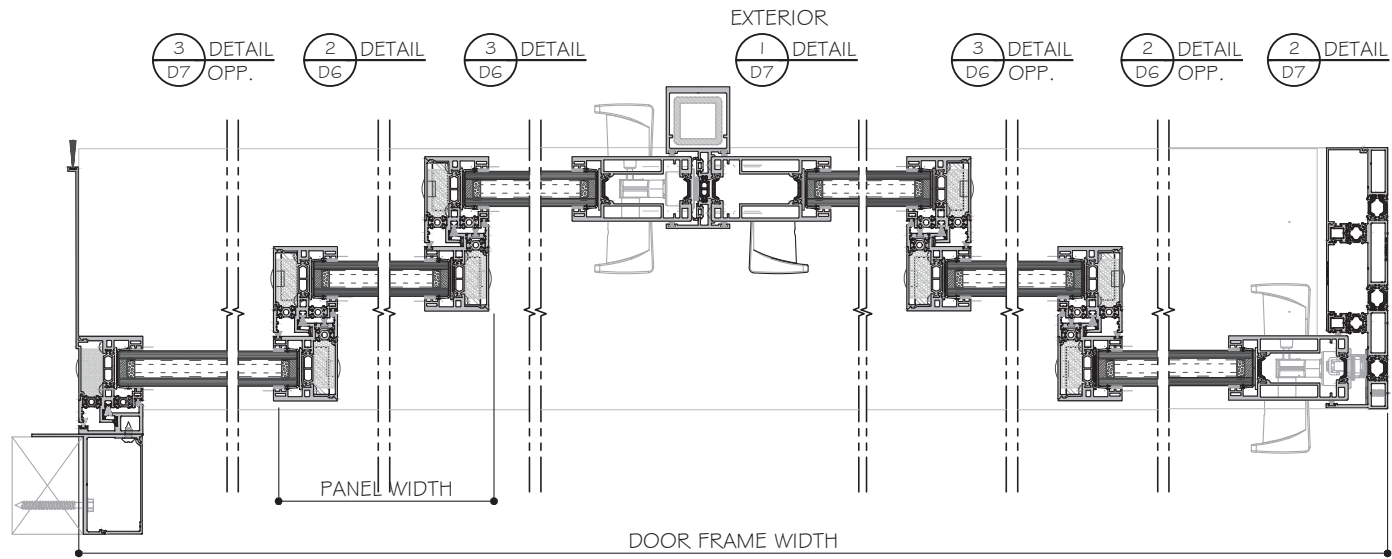
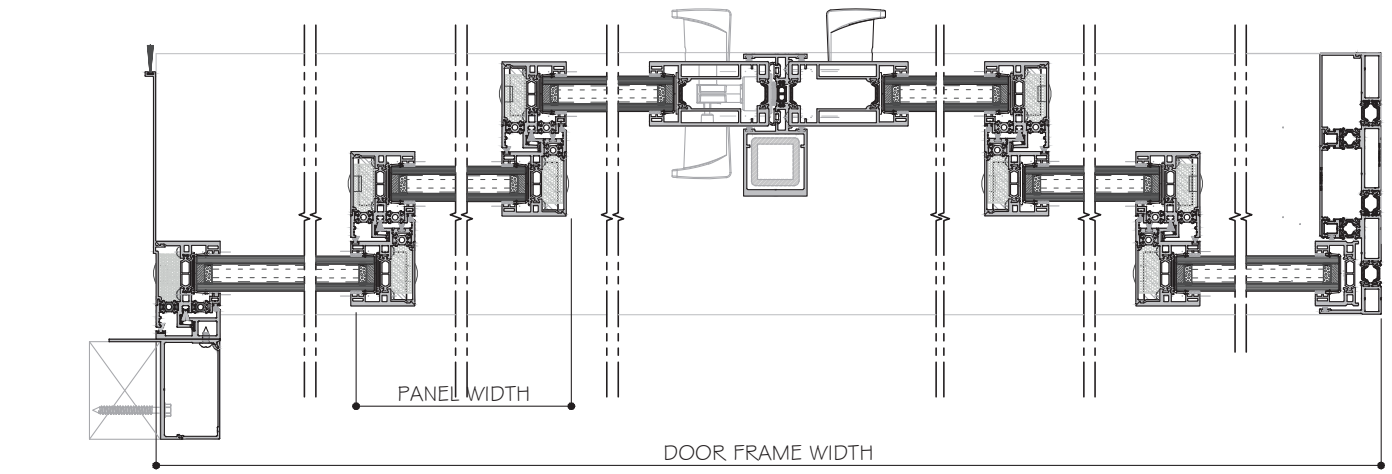
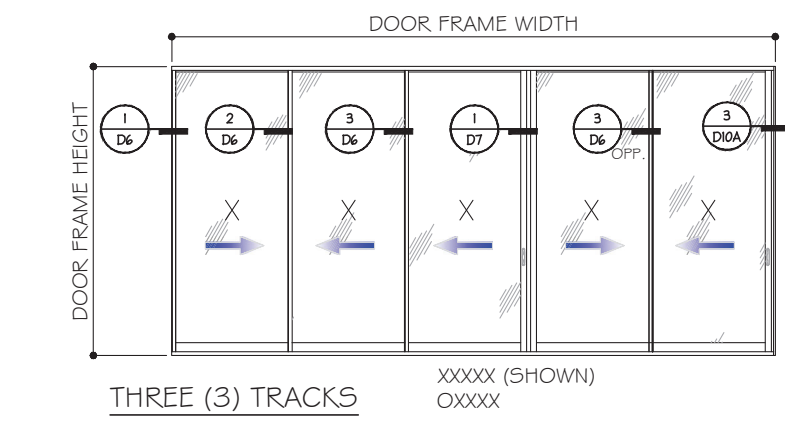
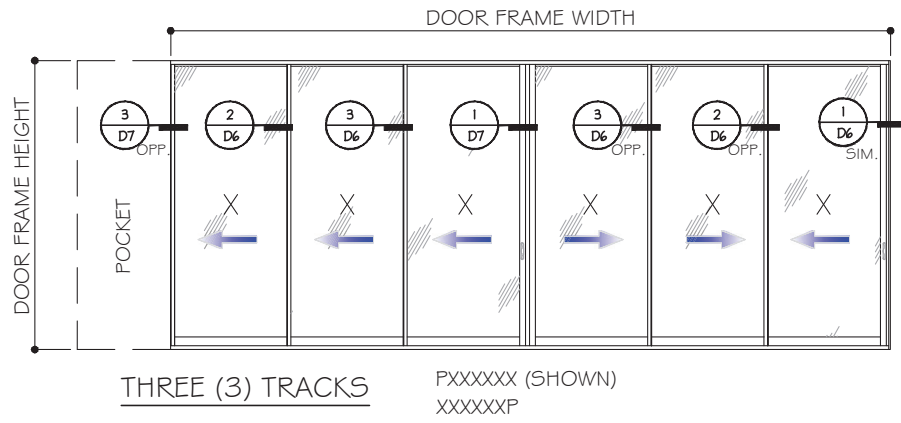
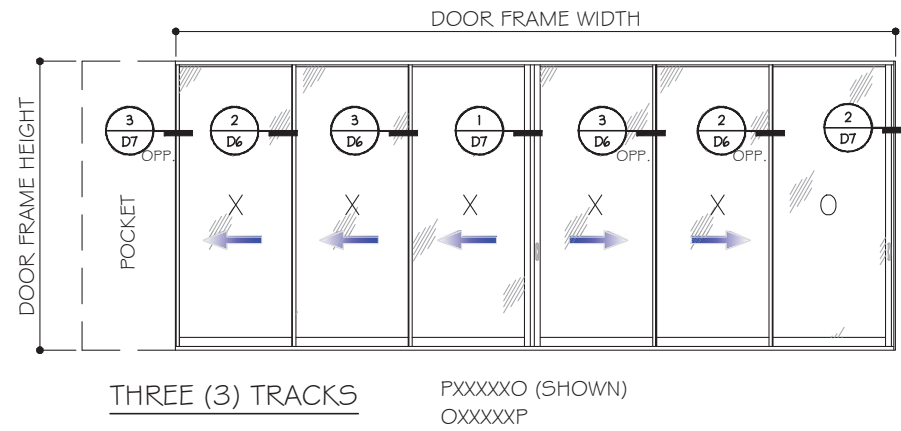
ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
 10653 NE Quaybridge Ct.
 Miami, FL 33138
 TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023
1	09.15.2023	James	UPDATE TO FCC 2023

Drawn Date: 09.15.2023 Scale:
 DRAWING NO. AD21-57
 E7
 Sheet No. 08 OF 35

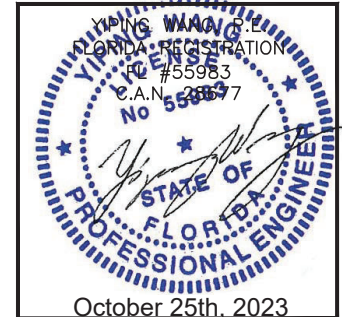
APPROVED CONFIGURATION DOORS

(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



- NOTES:**
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE SHEET G1 FOR GLASS OPTION AND CAPACITY.
 3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K1 BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4,
 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.

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



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

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

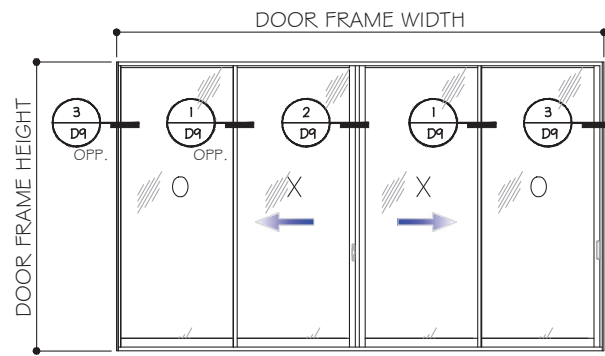
Drawn Date: 09.15.2023 Scale: _____

DRAWING NO. **AD21-57**

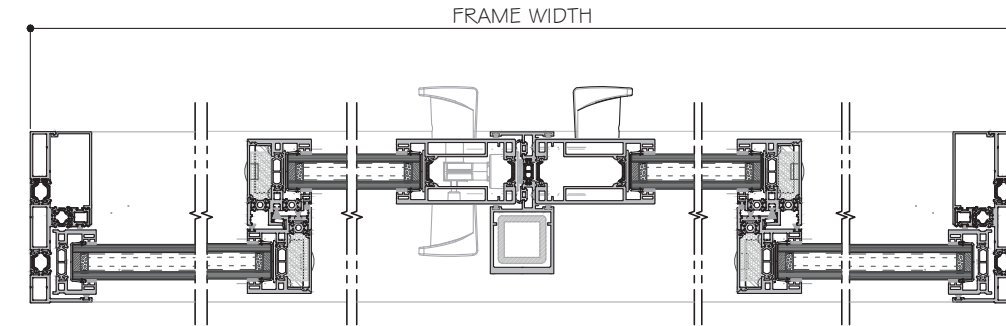
Sheet No. **E8**
09 OF 35

APPROVED CONFIGURATION DOORS

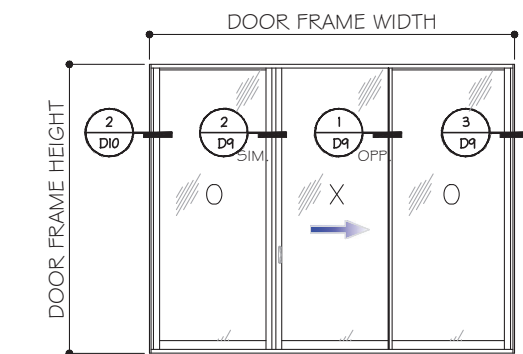
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K.1 FOR Dp AND INTERLOCK OPTIONS



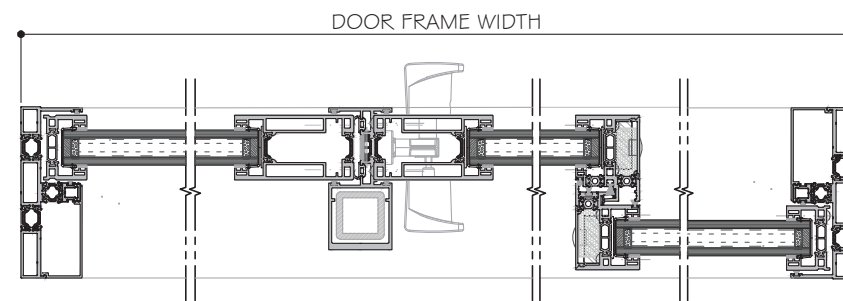
TWO (2) TRACKS OXXO (SHOWN)
XXXX (SIMILAR)



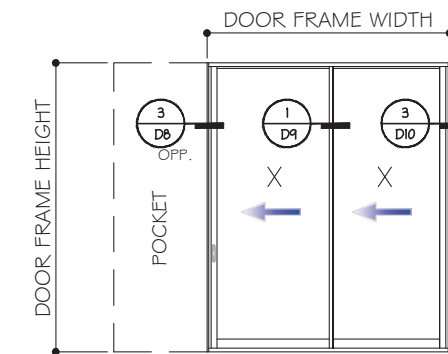
3 DETAIL D9 OPP. 1 DETAIL D9 2 DETAIL D9 1 DETAIL D9 OPP. 3 DETAIL D9



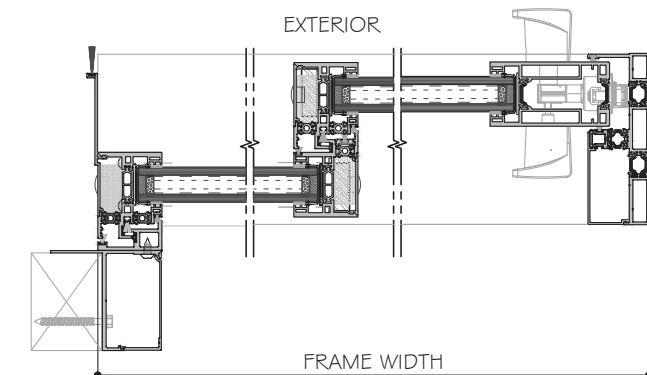
TWO (2) TRACKS OXO (SHOWN)
OXO (REVERSE)



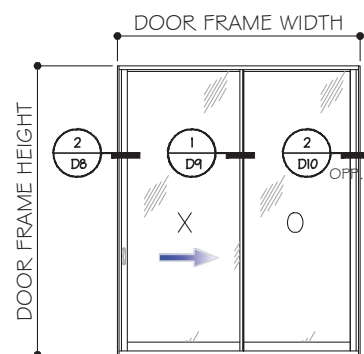
2 DETAIL D10 2 DETAIL D9 SIM. 1 DETAIL D9 OPP. 3 DETAIL D9



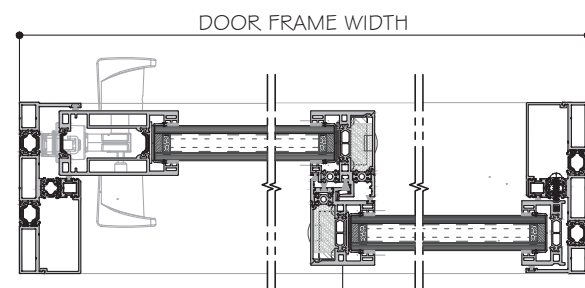
TWO (2) TRACKS PXX (SHOWN)
XXP (REVERSE)



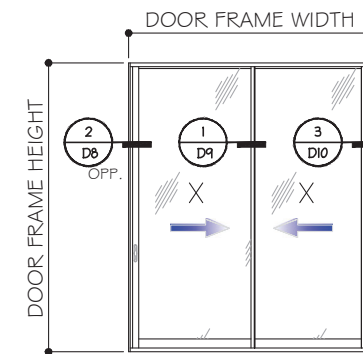
3 DETAIL D8 OPP. 1 DETAIL D9 3 DETAIL D10



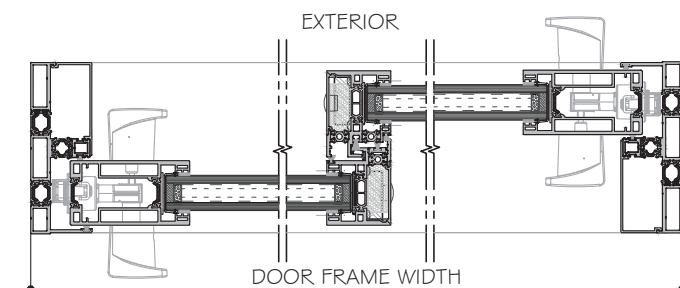
TWO (2) TRACKS XO (SHOWN)
OX



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



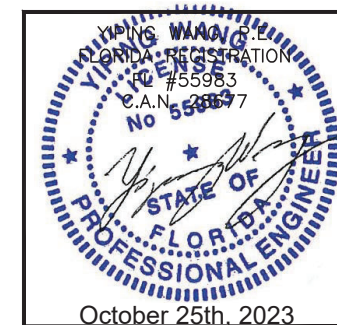
TWO (2) TRACKS XX



2 DETAIL D8 OPP. 1 DETAIL D9 3 DETAIL D10

NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G.1 FOR GLASS OPTION AND CAPACITY.
3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K.1 BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.1 #A.2 AND LAYOUT SEE SHEET E.1 TO E.4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J.1 TO J.2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



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

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	Jamee	UPDATE TO FBC 2023

Drawn Date: 09.15.2023 Scale: _____

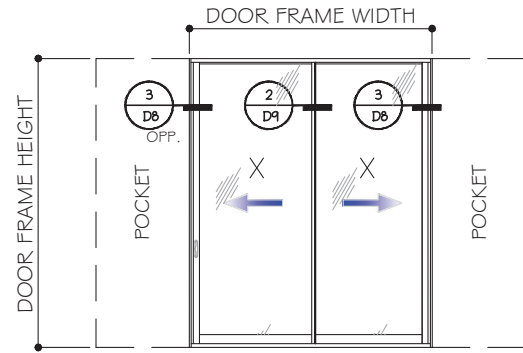
DRAWING NO. **AD21-57**

Sheet No. **E9**

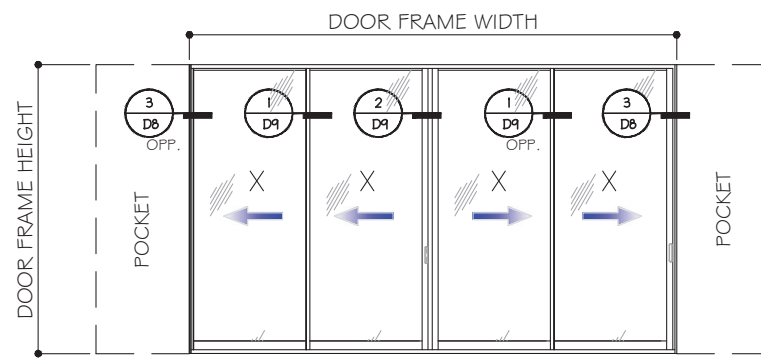
October 25th, 2023

APPROVED CONFIGURATION DOORS

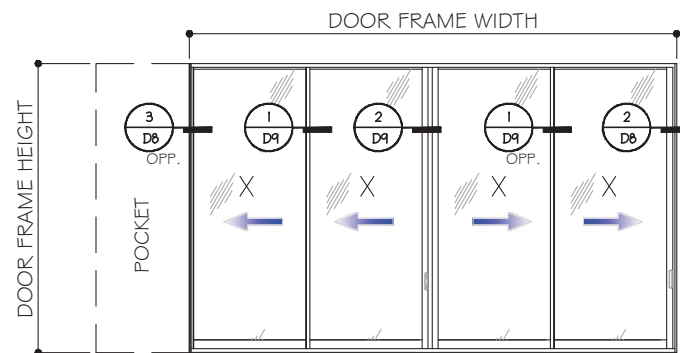
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



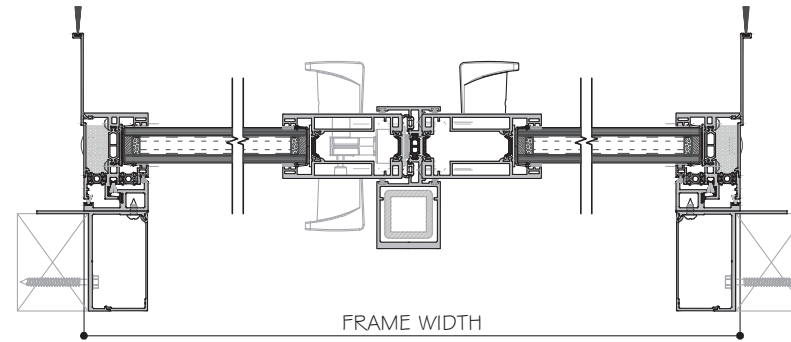
TWO (2) TRACKS PXXP



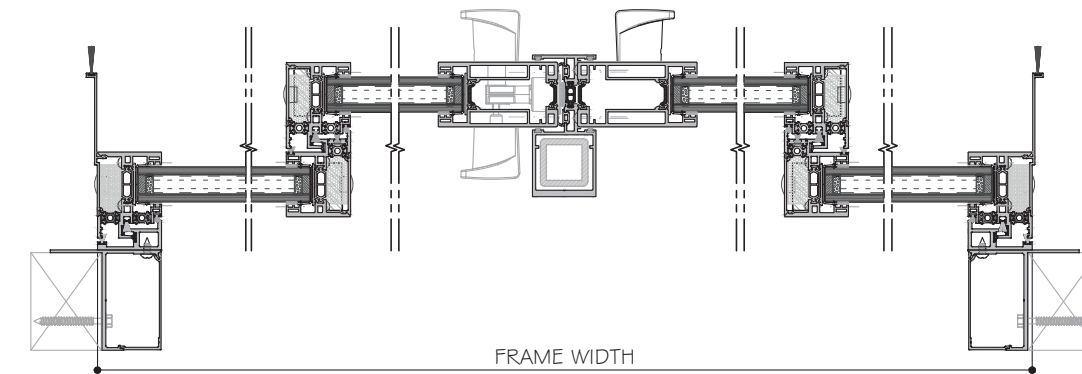
TWO (2) TRACKS PXXXXP



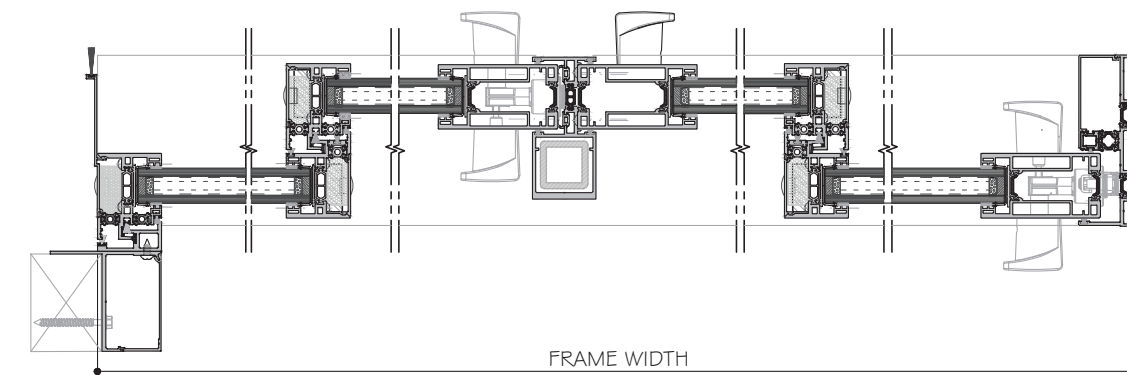
TWO (2) TRACKS
PXXXX (SHOWN)
XXXXP (REVERSE)
PXXXO
OXXXX



3 D8 OPP. EXTERIOR 2 D4 3 D8



3 D8 OPP. 1 D4 EXTERIOR 2 D4 1 D4 3 D8



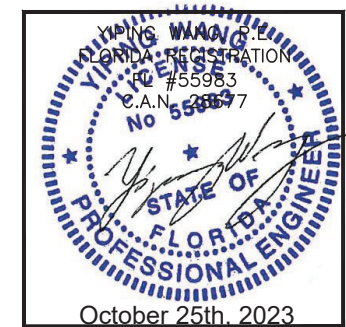
3 D8 OPP. 1 D4 EXTERIOR 2 D4 1 D4 2 D4

NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G1 FOR GLASS OPTION AND CAPACITY.
3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K1 BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4,
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.

NOTES:

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



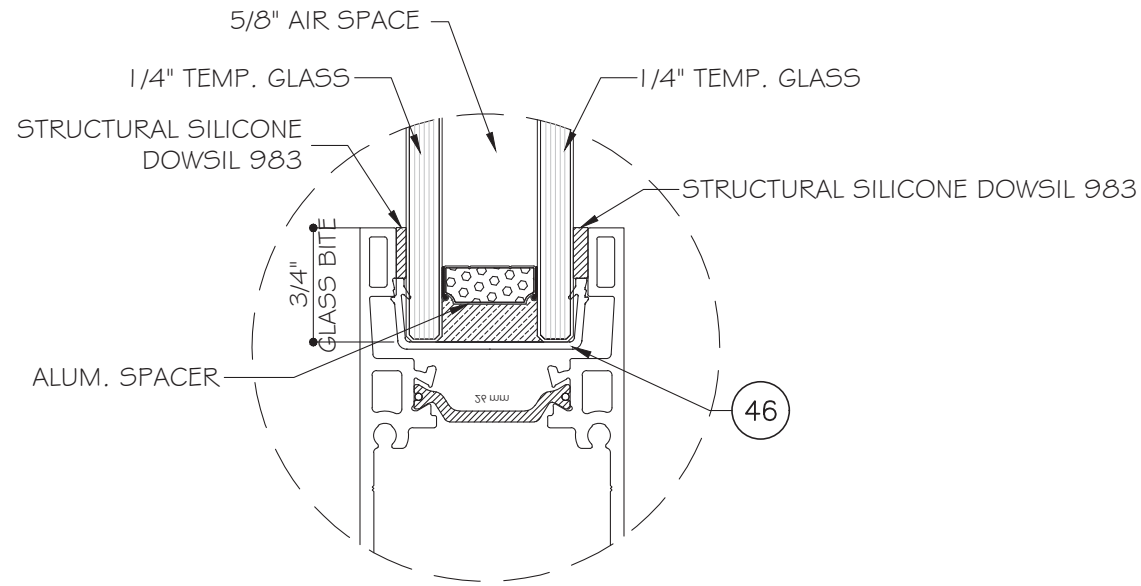
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023
Drawn Date: 09.15.2023		Scale:	
DRAWING NO. AD21-57			
Sheet No. E10			
11 OF 35			

GLASS LOAD CAPACITY CHART - PSF

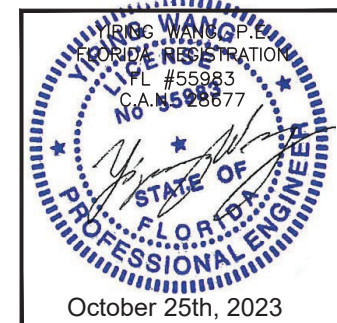
PANEL DIMENSIONS		GLASS TYPE G2
PANEL WIDTH	PANEL HEIGHT	
(INCH)	(INCH)	±psf
66.0	126.0	105.0
72.0		105.0
78.0		105.0
84.0		101.8
90.0		98.5
66.0	132.0	105.0
72.0		103.9
78.0		99.0
84.0		95.0
90.0		91.7
66.0	138.0	103.6
72.0		97.8
78.0		93.0
84.0		89.1
90.0		85.8
60.0	144.0	105.0
66.0		98.0
72.0		92.4
78.0		87.7
84.0		83.8
90.0	80.6	
60.0	150.0	99.8
66.0		93.0
72.0		87.5
78.0		83.0
84.0		79.2
60.0	156.0	95.0
66.0		88.5
72.0		83.1
78.0		78.7
84.0		75.0



GLASS TYPE 'G2'
1 1/8" NOMINAL OVERALL

NOTE: PART 46 CAN BE USED AS SETTING BLOCK
GLASS BITE APPLY TO ENTIRE SYSTEM.

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



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

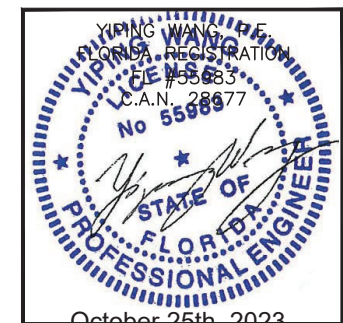
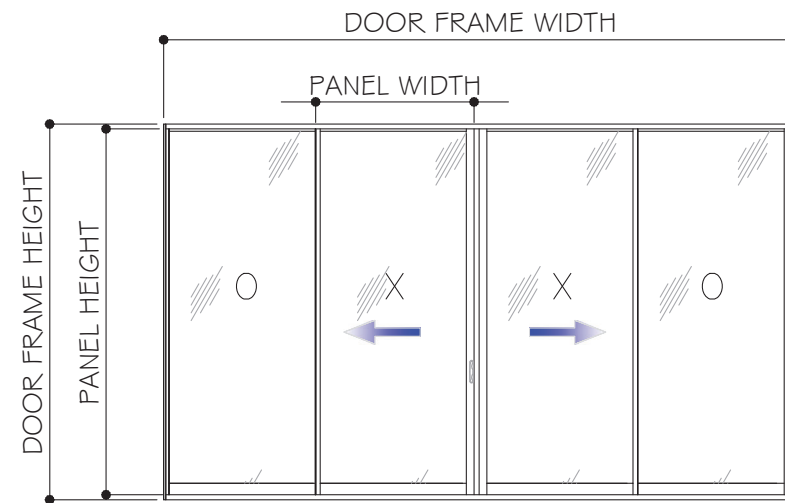
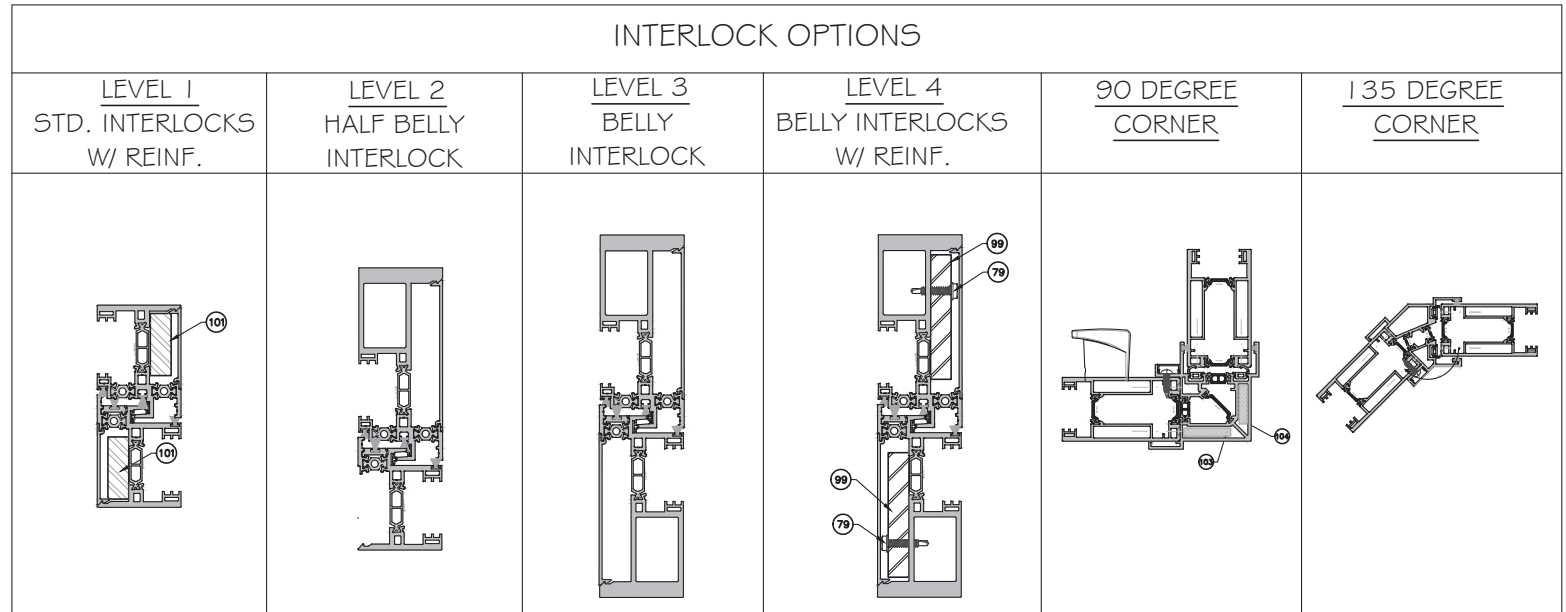
ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

Drawn Date: 09.15.2023
Scale:
DRAWING NO. AD21-57
G1
Sheet No. 12 OF 35

SGD LOAD CAPACITY CHART -(+/-) PSF					
PANEL DIMENSION		LEVEL 1	LEVEL 2	LEVEL 3	CORNER MULLION
PANEL HEIGHT (INCH)	PANEL WIDTH (INCH)	STD INTERLOCK W/ REINF.	HALF BELLY INTERLOCK W/O REINF.	BELLY INTERLOCK W/O REINF.	
102.0	42.0	71.7	105.0	105.0	105.0
	48.0	65.1	105.0	105.0	105.0
	54.0	60.2	97.4	105.0	105.0
	60.0	56.4	91.4	105.0	105.0
	66.0	53.5	86.7	105.0	105.0
	72.0	51.3	83.1	105.0	105.0
108.0	42.0	66.7	105.0	105.0	105.0
	48.0	60.5	97.9	105.0	105.0
	54.0	55.7	90.2	105.0	105.0
	60.0	52.1	84.3	105.0	105.0
	66.0	49.3	79.7	105.0	105.0
	72.0	47.0	76.1	105.0	105.0
114.0	42.0	62.4	101.0	105.0	105.0
	48.0	56.4	91.4	105.0	105.0
	54.0	51.9	84.0	105.0	105.0
	60.0	48.4	78.3	105.0	105.0
	66.0	45.6	73.8	105.0	105.0
	72.0	43.3	70.2	105.0	105.0
120.0	42.0	58.6	94.9	105.0	105.0
	48.0	52.9	85.6	105.0	105.0
	54.0	48.6	78.6	105.0	105.0
	60.0	45.2	73.1	105.0	105.0
126.0	42.0	55.3	89.5	105.0	105.0
	48.0	49.8	80.6	105.0	105.0
	54.0	45.6	73.8	105.0	105.0
	60.0	42.3	68.5	100.3	100.3
132.0	42.0	52.3	84.7	105.0	105.0
	48.0	47.0	76.1	105.0	105.0
	54.0	43.0	69.6	101.9	101.9
	60.0	40.0	65.0	95.0	95.0
138.0	42.0	47.5	76.8	105.0	105.0
	48.0	42.0	68.0	99.6	99.6
	54.0	37.9	61.2	89.7	89.7
144.0	42.0	41.7	67.4	98.7	98.7
	48.0	36.9	59.6	87.3	87.3
	54.0	33.2	53.6	78.6	78.6
150.0	42.0	-	-	87.1	87.1
	48.0	-	-	77.0	77.0
156.0	42.0	-	-	77.3	77.3
	48.0	-	-	68.2	68.2

SGD LOAD CAPACITY CHART -(+/-) PSF		
PANEL DIMENSION		LEVEL 4
PANEL HEIGHT (INCH)	PANEL WIDTH (INCH)	BELLY INTERLOCK W/ REINF.
120.0	60.0	105.0
	66.0	105.0
	72.0	105.0
	78.0	105.0
	84.0	105.0
	90.0	105.0
126.0	60.0	105.0
	66.0	105.0
	72.0	105.0
	78.0	105.0
	84.0	101.8
	90.0	98.5
132.0	60.0	105.0
	66.0	105.0
	72.0	103.9
	78.0	99.0
	84.0	95.0
	90.0	91.7
138.0	60.0	105.0
	66.0	103.6
	72.0	97.8
	78.0	93.0
	84.0	89.1
	90.0	85.8
144.0	60.0	105.0
	66.0	98.0
	72.0	92.4
	78.0	87.7
	84.0	83.8
	90.0	80.6
150.0	60.0	99.8
	66.0	93.0
	72.0	87.5
	78.0	83.0
156.0	60.0	95.0
	66.0	88.5
	72.0	83.1
	78.0	78.7
	85.7	75.0

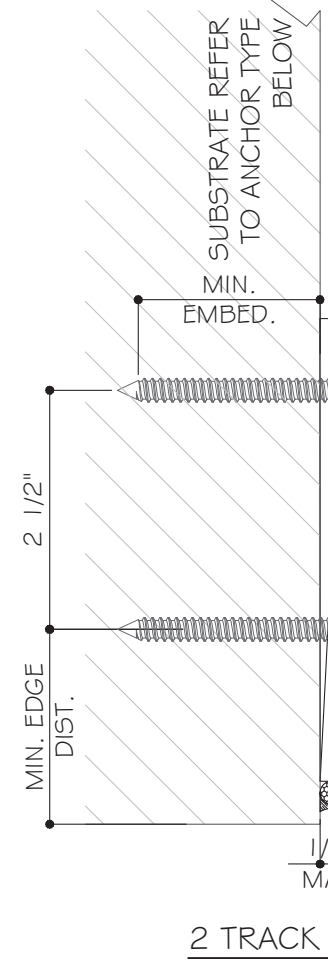
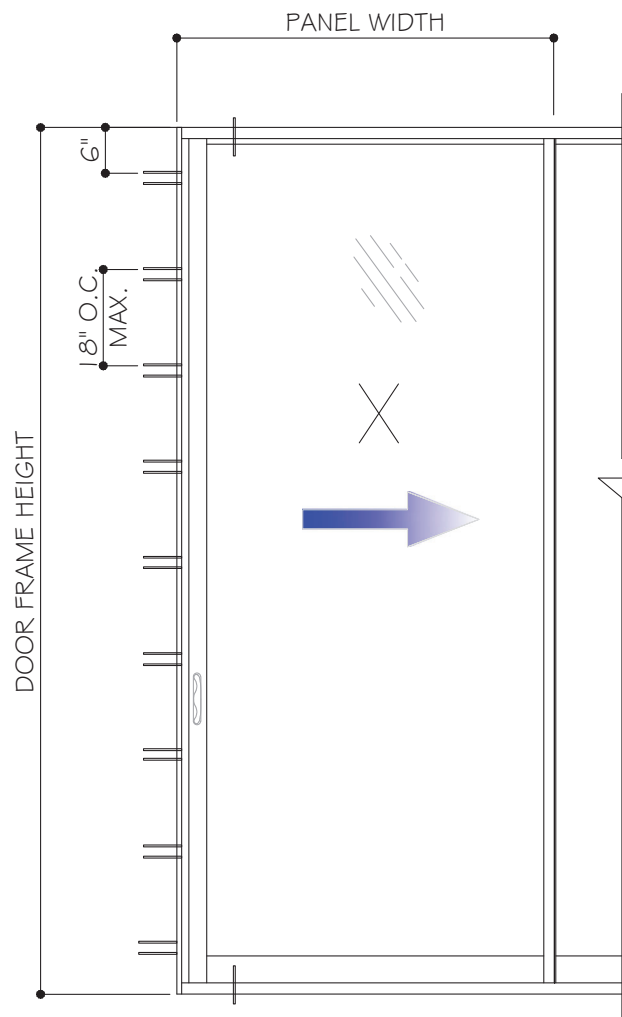


MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

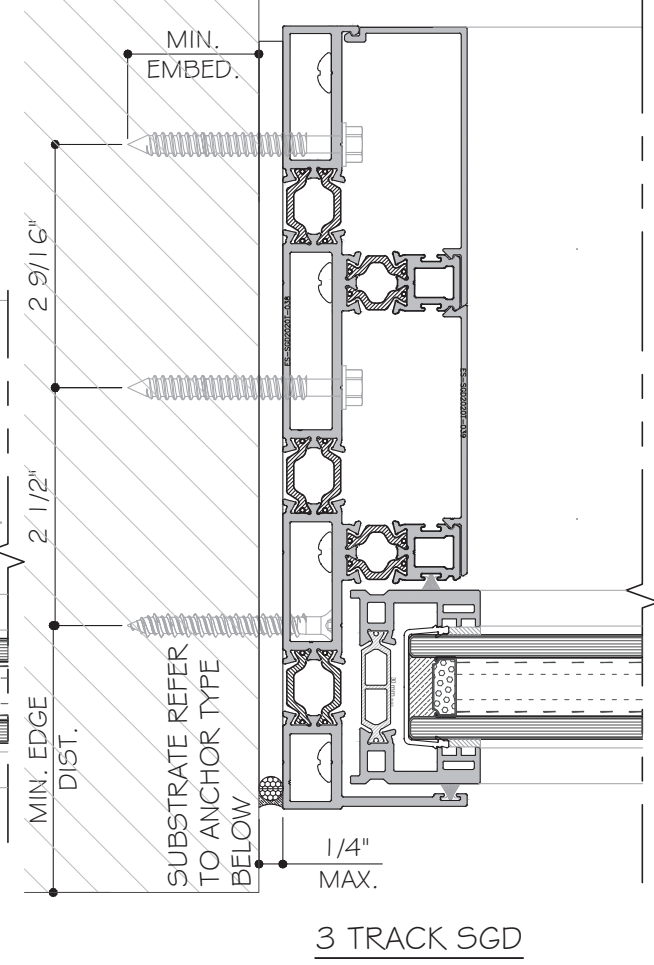
ES-SGD2020T SLIDING GLASS DOOR (N.I.)

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

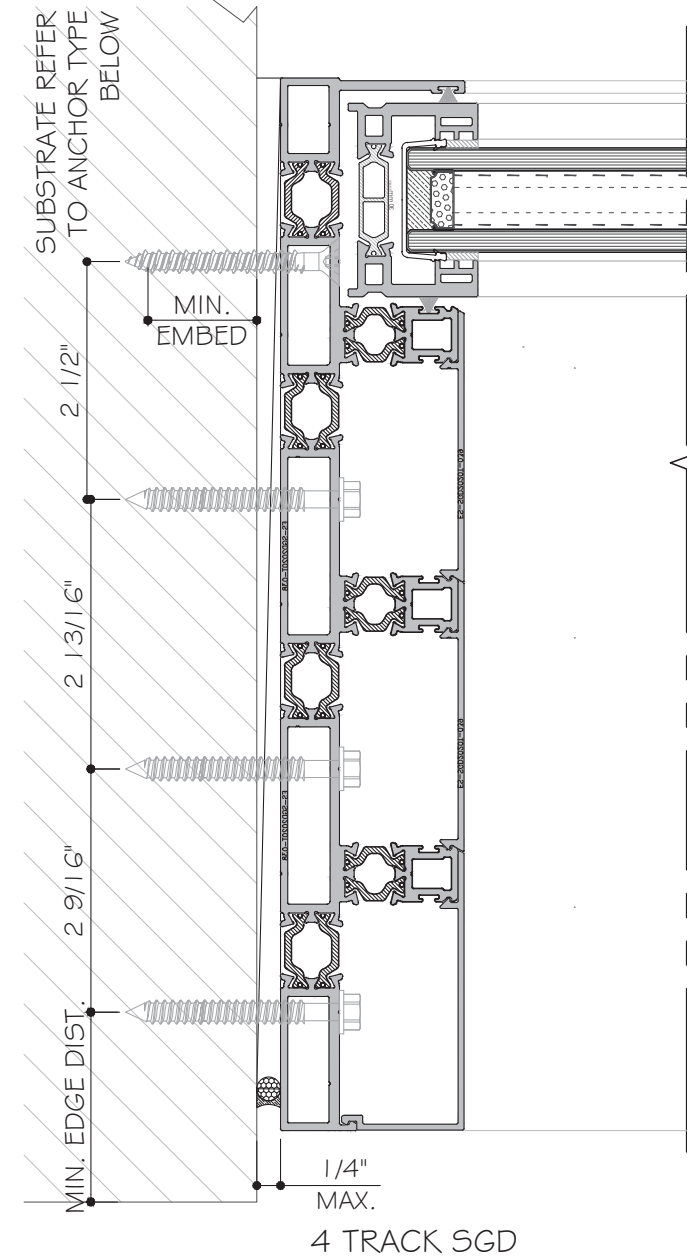
Drawn Date	Scale
09.15.2023	
DRAWING NO.	AD21-57
Sheet No.	K1
13 OF 35	



2 TRACK SGD



3 TRACK SGD



4 TRACK SGD

TYPICAL ANCHOR TYPES:

TYPE "A": 1/4" ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
OR THRU. WOOD INTO CONCRETE OR MASONRY

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

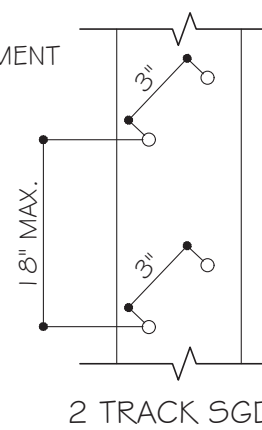
TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURE
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. (Fy=36KSI, MIN.)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

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

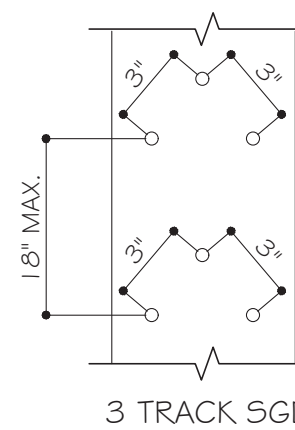
CONCRETE AT HEAD, SILL OR JAMBS fc'=3050 psi MIN.
C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY fm'=2000psi MIN.

ANCHOR LOAD CAPACITY CHART (FOR TWO TRACK ONLY)					
PANEL WIDTH	ANCHOR SPACING	ANCHOR TYPE			
		A (WOOD)	B (BLOCK)	B (CONCR.)	C (METAL)
(IN)	(IN)	(± PSF)	(± PSF)	(± PSF)	(± PSF)
72.0	18	105	105	105	105
78.0	18	105	98	105	105
84.0	18	98	91	105	105
85.75	18	96	90	105	105
90.0	18	92	85	105	105

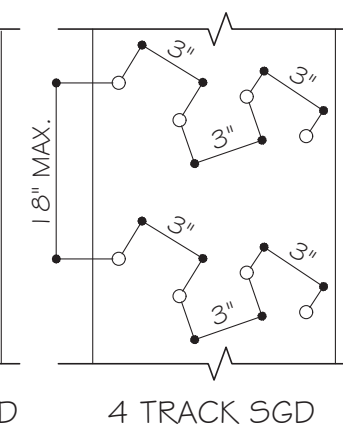
NOTE: 3 OR 4 TRACK 4 JAMB ANCHOR MEET ALL LOAD REQUIREMENT



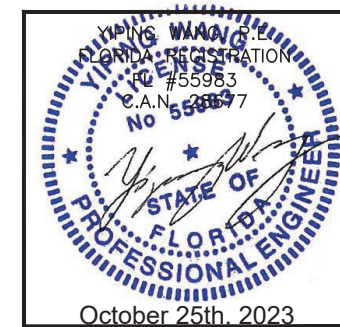
2 TRACK SGD



3 TRACK SGD



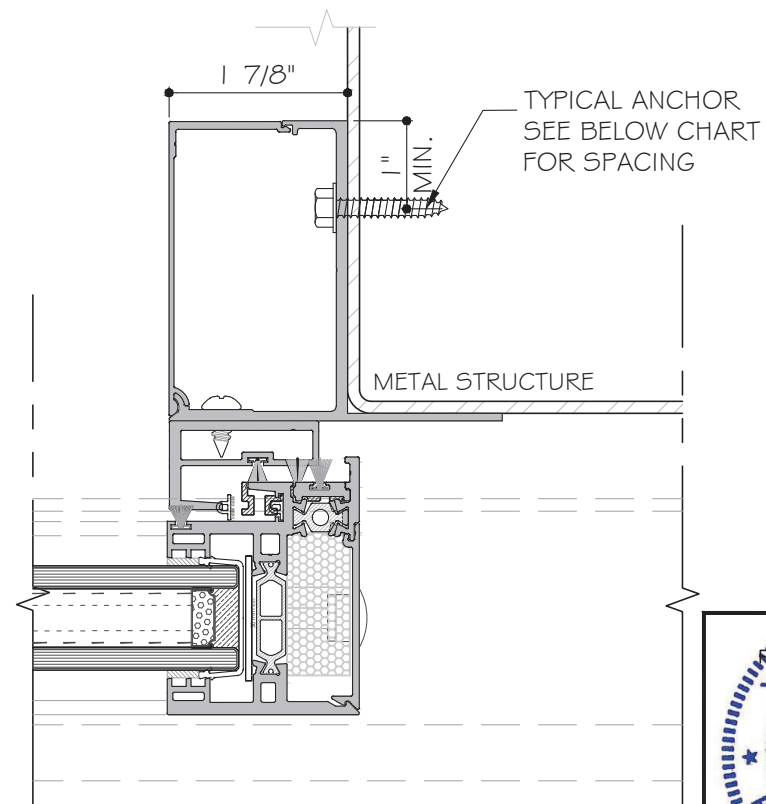
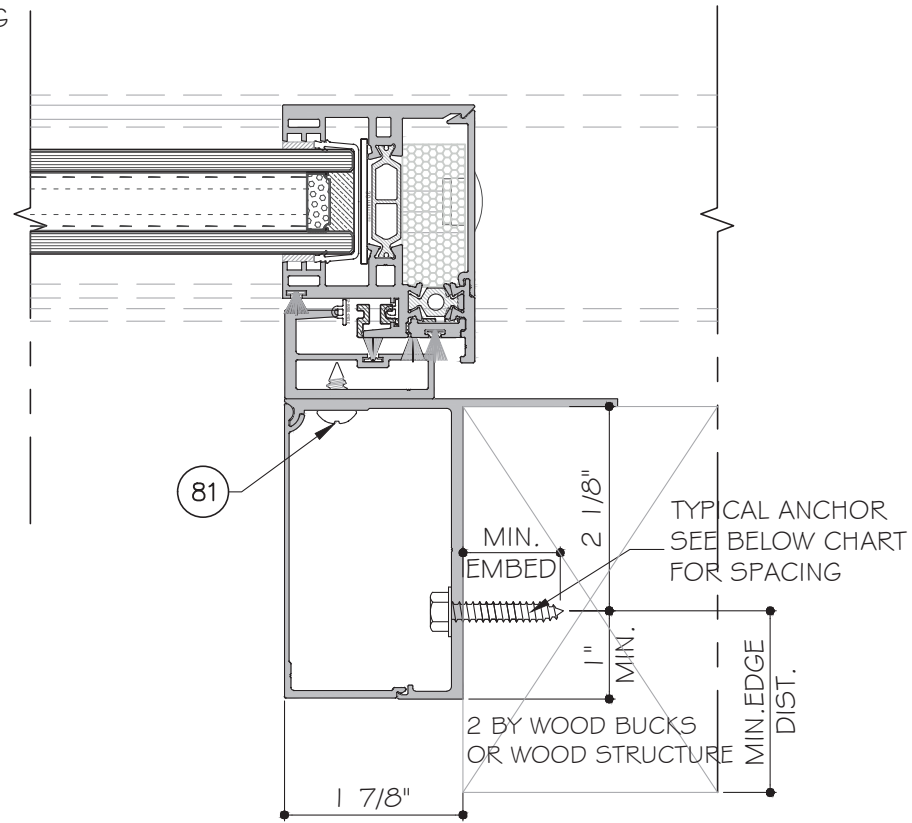
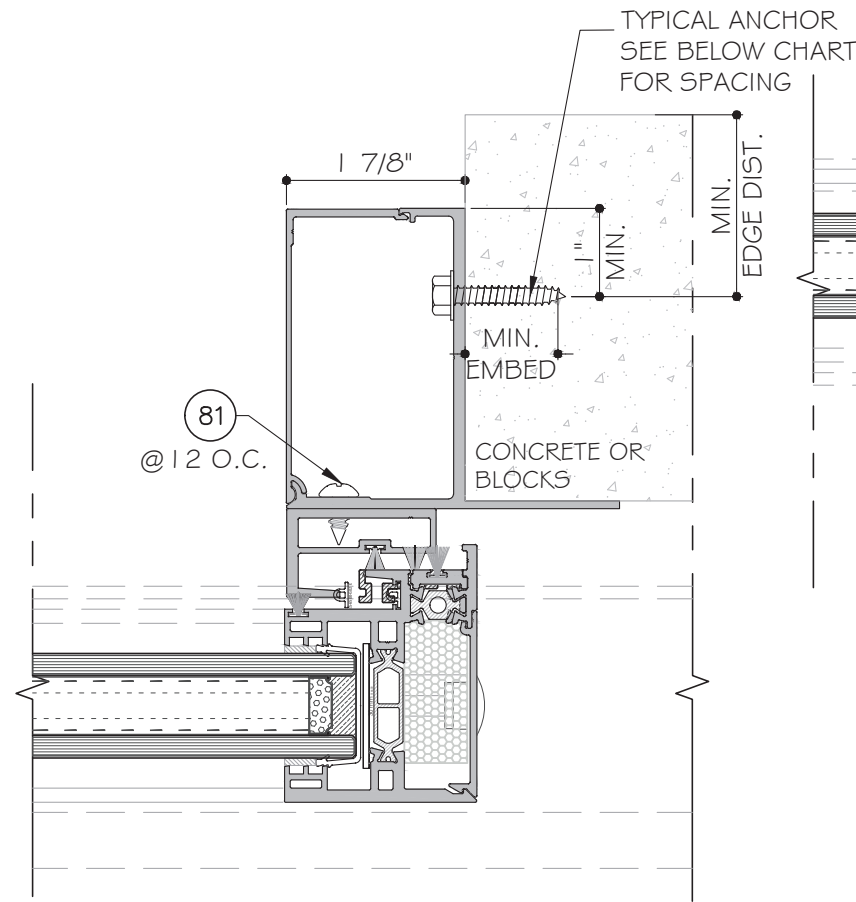
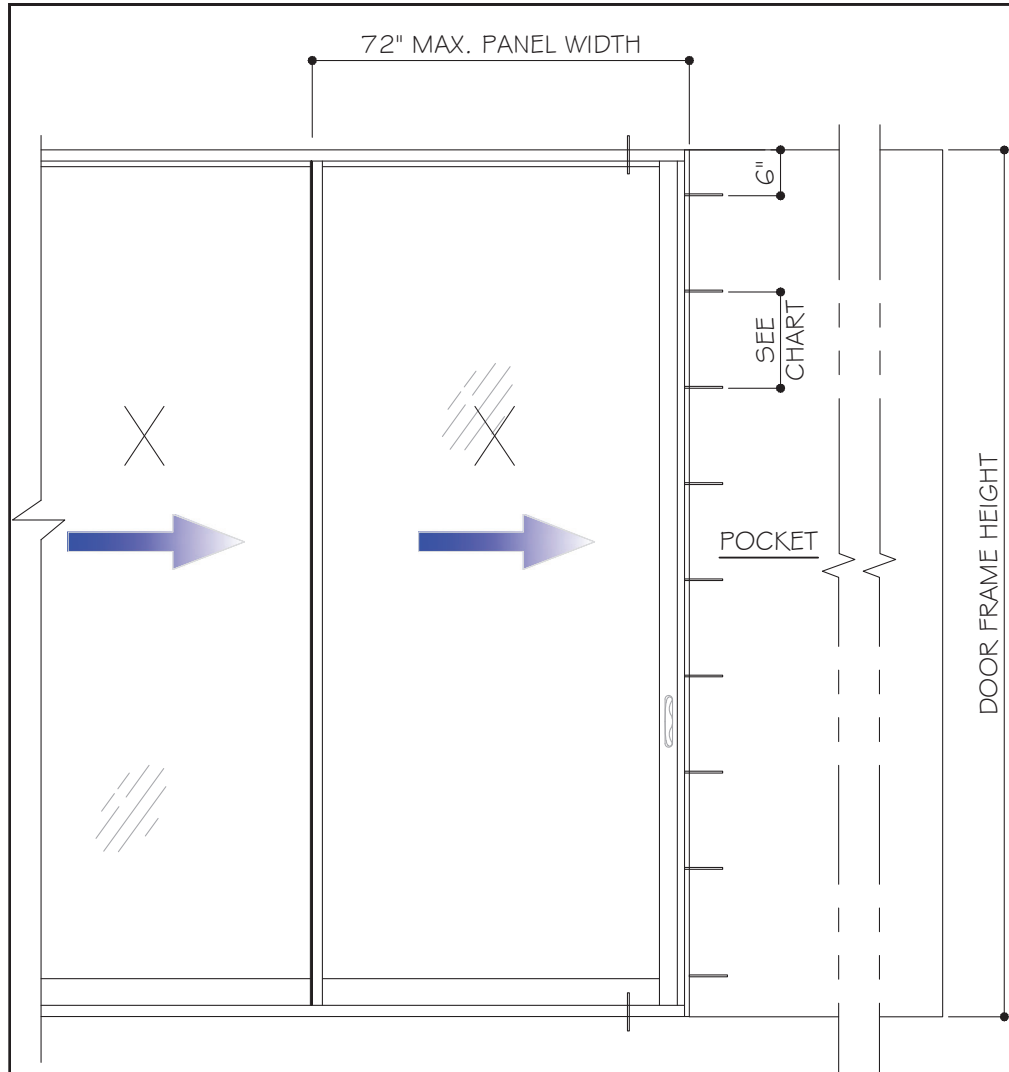
4 TRACK SGD



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 (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Drawn Date	Scale
09.15.2023	
Drawn By	Description
JAMES	UPDATE TO FEB 2023
Date	Rev. No.
09.15.2023	2
DRAWING NO.	
AD21-57	
Sheet No.	
14 OF 35	



POCKET JAMB ANCHOR TYPES:

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

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

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

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

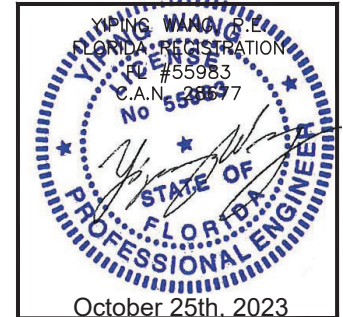
MIN. EDGE DISTANCE: CONCRETE 2 1/2"
 MIN. EDGE DISTANCE: WOOD: 1"
 MIN. EDGE DISTANCE: METAL: 1/2"

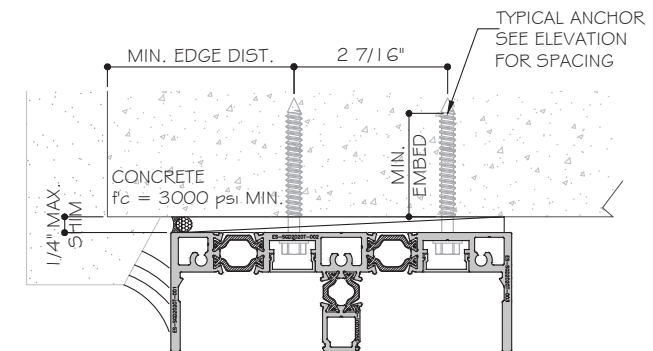
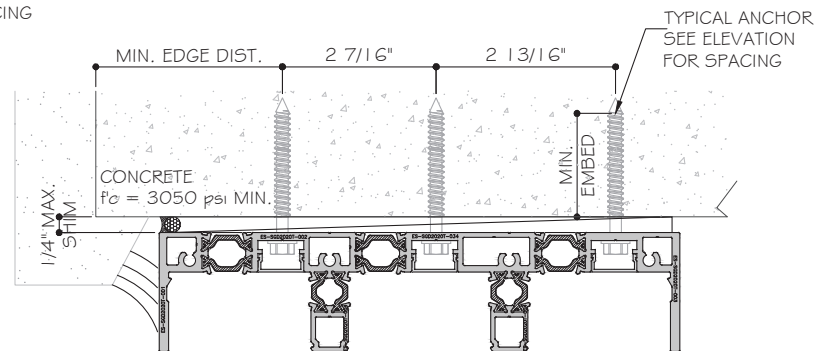
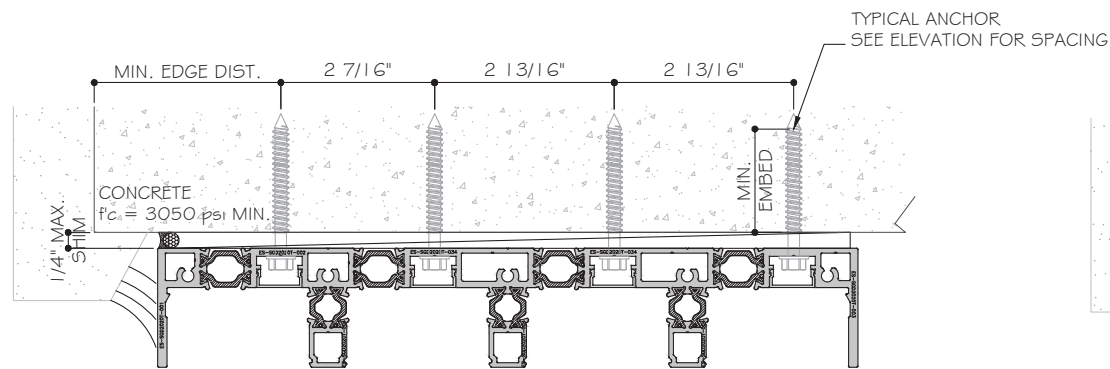
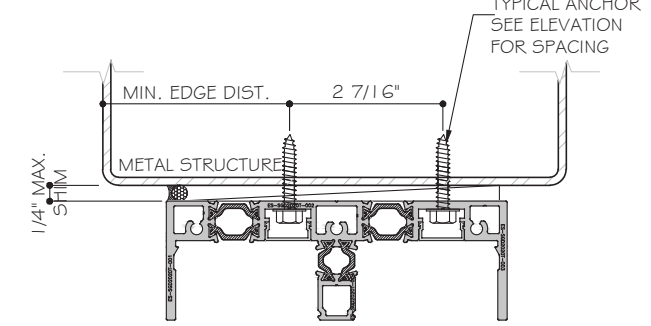
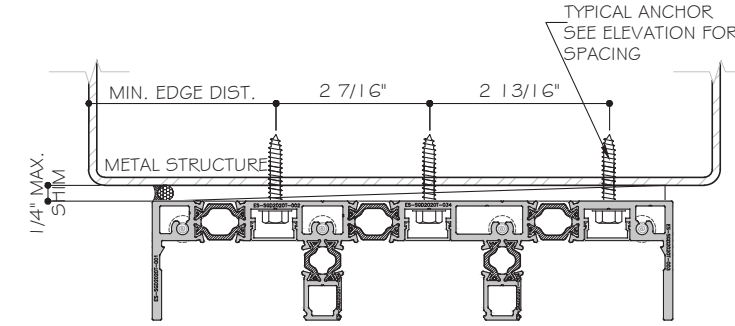
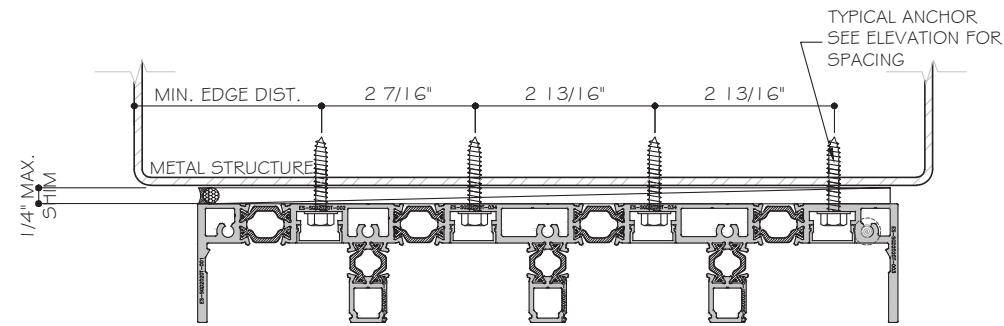
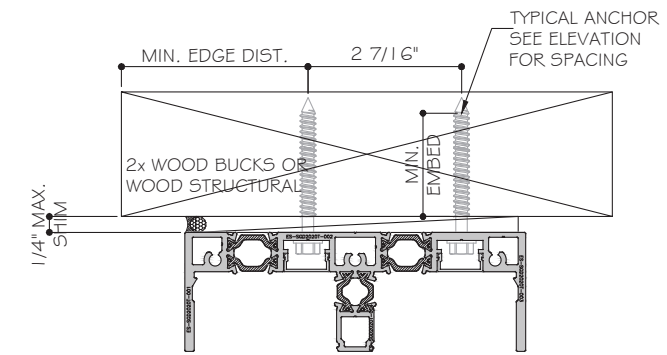
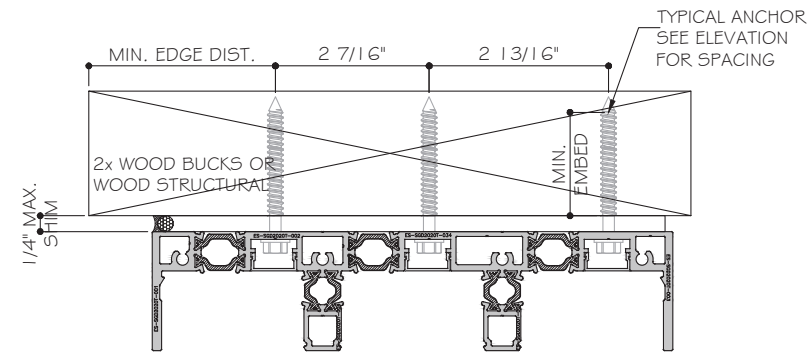
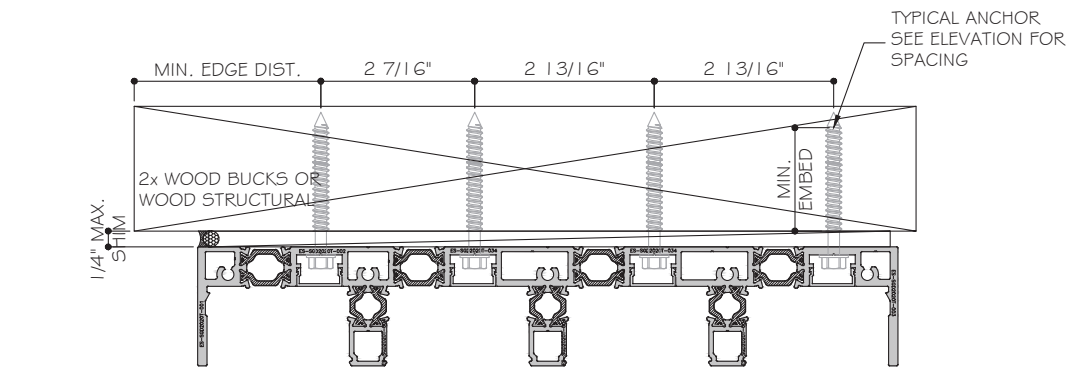
CONCRETE AT HEAD, SILL OR JAMBS $f_c' = 3050 \text{ psi}$ MIN.
 C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY $f_m' = 2000 \text{ psi}$ MIN.

POCKET JAMB ANCHOR CHART				
ANCHOR TYPE	SUBSTRATE	PANEL SPACING	SPACING	Pd(PSF)
A	WOOD	60.0	6	105
		66.0	6	95
		72.0	6	88
B	CONCRETE	60.0	12	90
		66.0	12	82
		72.0	12	75
B	CONCRETE	60.0	8	105
		66.0	8	95
		72.0	8	88
B	GROUT FILLED BLOCK	60.0	8	105
		66.0	8	95
		72.0	8	88
C	ALUM.	60.0	12	103
		66.0	12	93
		72.0	12	85
C	STL	60.0	12	105
		66.0	12	95
		72.0	12	88

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023

Drawn Date 09.15.2023	Scale
DRAWING NO. AD21-57	
Sheet No. J2	
15 OF 35	





4 TRACK SGD

3 TRACK SGD

2 TRACK SGD

TYPICAL ANCHOR TYPES @ HEAD & SILL:

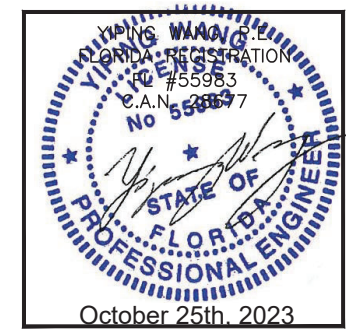
TYPE "A": 1/4" ULTRACON+ BY DEWALT (F_u=164 KSI, F_y=148 KSI)
 1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
 OR THRU. WOOD INTO CONCRETE

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=36KSI, MIN.)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
 STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

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

CONCRETE AT HEAD, SILL OR JAMBS f_c'=3050 psi MIN.
 C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY
 f_m'=2000psi MIN.



ES-SGD2020T SLIDING GLASS DOOR (N.I.)

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

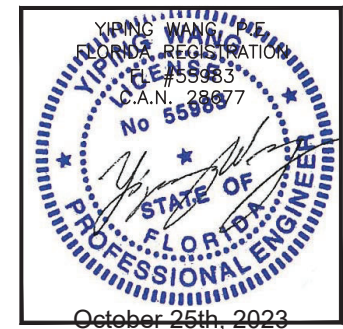
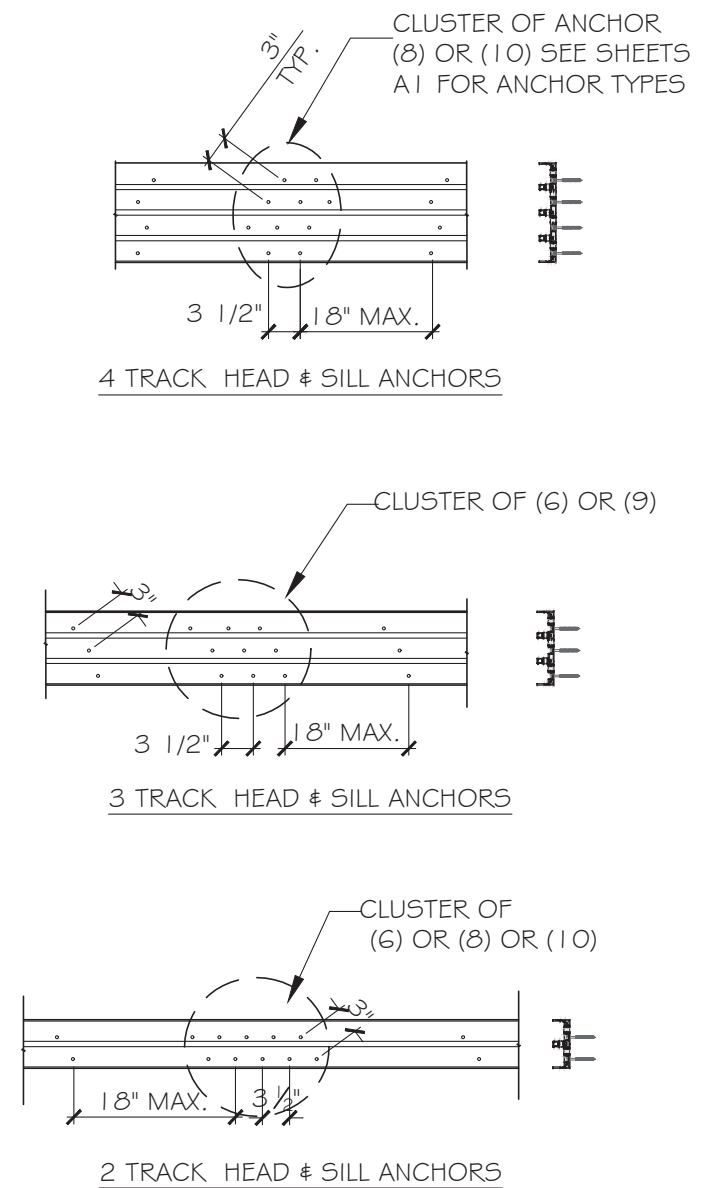
MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027 P: 305.271.0117
 www.MCYEngineering.com mcy@mcyengineering.com

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023
Drawn Date: 09.15.2023		Scale:	
DRAWING NO. AD21-57			
Sheet No. 16 OF 35			

HEAD AND SILL ANCHOR LOAD CAPACITY CHART - PSF							
PANEL DIMENSIONS (INCH)		ANCHOR TYPE (1/4" SHIM WIDTH)					
PANEL HEIGHT	PANEL WIDTH	A6	A8	A9	A10	B6	C6
108	48	105	105	105	105	105	105
	54	98	105	105	105	105	105
	60	92	105	105	105	105	105
	66	87	105	105	105	105	105
	72	83	105	105	105	105	105
	78	79	105	105	105	105	105
	84	77	103	105	105	105	105
	86	76	102	105	105	105	105
114	48	100	105	105	105	105	105
	54	92	105	105	105	105	105
	60	85	105	105	105	105	105
	66	80	105	105	105	105	105
	72	76	102	105	105	105	105
	78	73	98	105	105	105	105
	84	71	94	105	105	105	105
	86	70	93	105	105	105	105
120	48	94	105	105	105	105	105
	54	86	105	105	105	105	105
	60	80	105	105	105	105	105
	66	75	100	105	105	105	105
	72	71	95	105	105	105	105
	78	68	91	102	105	105	105
	84	66	87	98	105	105	105
	86	65	86	97	105	105	105
126	48	88	105	105	105	105	105
	54	81	105	105	105	105	105
	60	75	100	105	105	105	105
	66	70	94	105	105	105	105
	72	67	89	100	105	105	105
	78	64	85	95	105	105	105
	84	61	81	92	102	100	105
	86	60	80	90	100	99	105
132	48	84	105	105	105	105	105
	54	76	102	105	105	105	105
	60	71	94	105	105	105	105
	66	66	88	99	105	105	105
	72	63	83	94	104	103	105
	78	60	79	89	99	98	105
	84	57	76	86	95	94	105
	86	56	75	85	94	93	105

HEAD AND SILL ANCHOR LOAD CAPACITY CHART - PSF							
PANEL DIMENSIONS (INCH)		ANCHOR TYPE (1/4" SHIM WIDTH)					
PANEL HEIGHT	PANEL WIDTH	A6	A8	A9	A10	B6	C6
138	48	79	105	105	105	105	105
	54	72	97	105	105	105	105
	60	67	89	100	105	105	105
	66	63	83	94	104	103	105
	72	59	79	88	98	97	105
	78	56	75	84	93	92	105
	84	54	71	80	89	88	104
	86	53	71	79	88	87	103
144	48	76	101	105	105	105	105
	54	69	92	103	105	105	105
	60	64	85	95	105	105	105
	66	59	79	89	99	98	105
	72	56	74	84	93	92	105
	78	53	71	79	88	87	103
	84	51	67	76	84	83	98
	86	50	66	75	83	82	97
150	48	72	96	105	105	105	105
	54	66	87	98	105	105	105
	60	60	81	91	101	100	105
	66	56	75	84	94	93	105
	72	53	71	79	88	87	103
	78	50	67	75	84	83	97
	84	48	64	72	80	79	93
	86	47	63	71	79	78	92
156	48	69	92	103	105	105	105
	54	63	83	94	104	103	105
	60	58	77	86	96	95	105
	66	54	71	80	89	88	104
	72	50	67	76	84	83	98
	78	48	64	71	79	78	92
	84	45	60	68	76	75	88

A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT INTELOCK OR ASTRAGAL
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT INTELOCK OR ASTRAGAL
A9 - A CLUSTER OF (9) TYPE "A" ANCHORS AT INTELOCK OR ASTRAGAL
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT INTELOCK OR ASTRAGAL
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT INTELOCK OR ASTRAGAL
C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT INTELOCK OR ASTRAGAL



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 (N.I.)

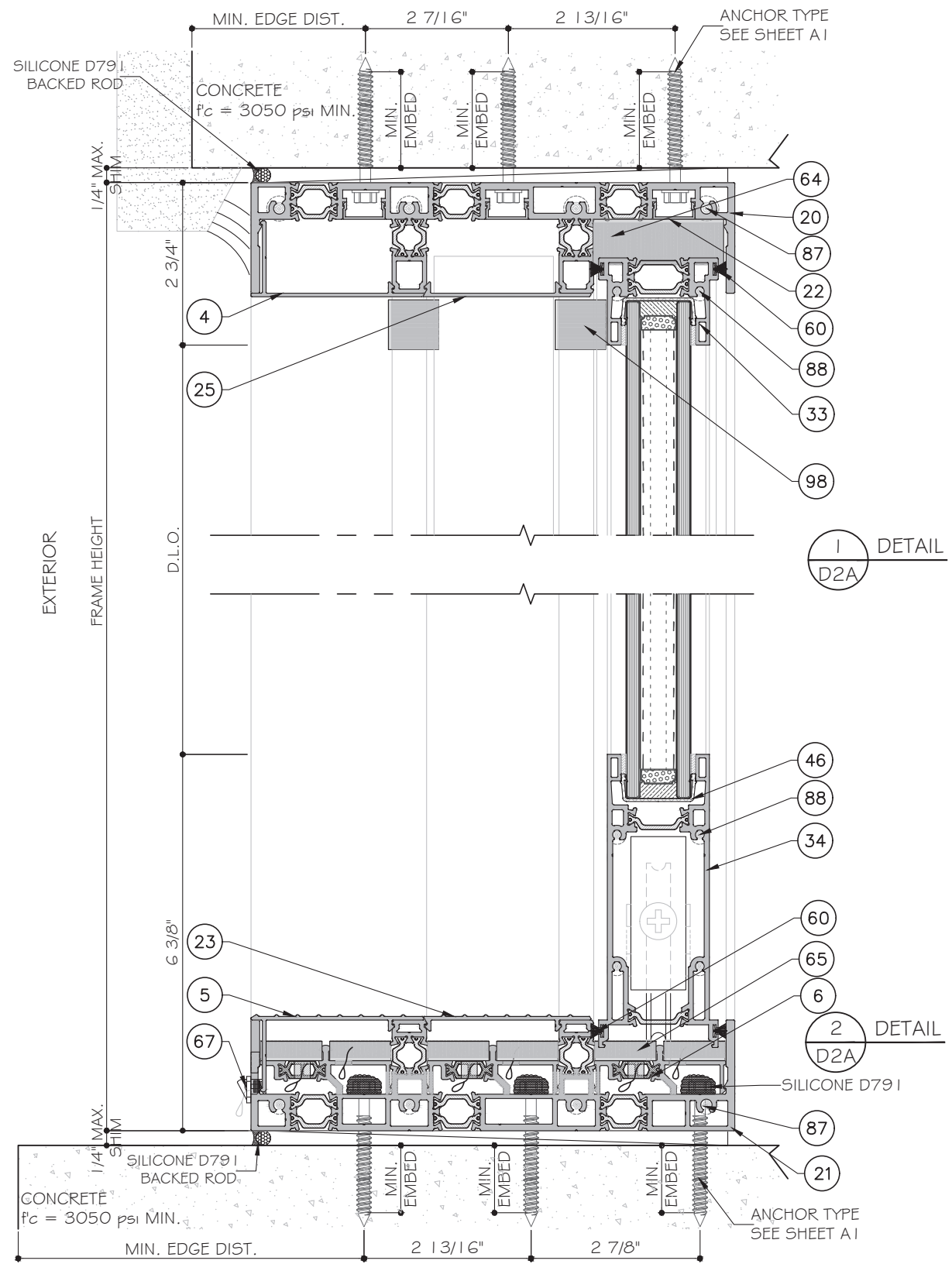
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

Drawn Date: 09.15.2023 Scale:

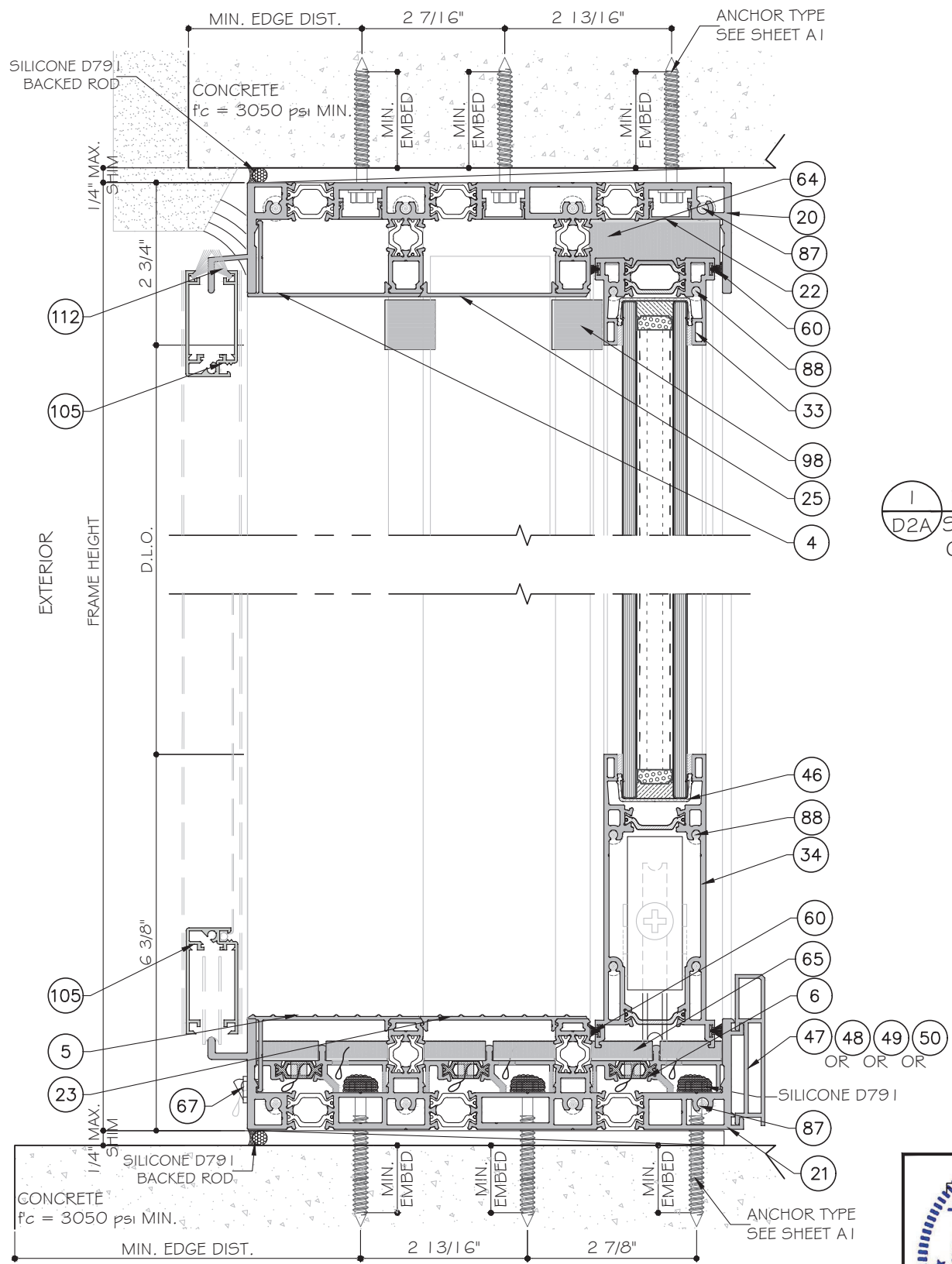
DRAWING NO. AD21-57

Sheet No. A2

17 OF 35

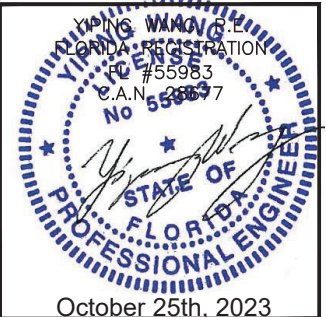


1
D2A
DETAIL
SCREEN
OPTION



1
D2A
DETAIL
SCREEN
OPTION

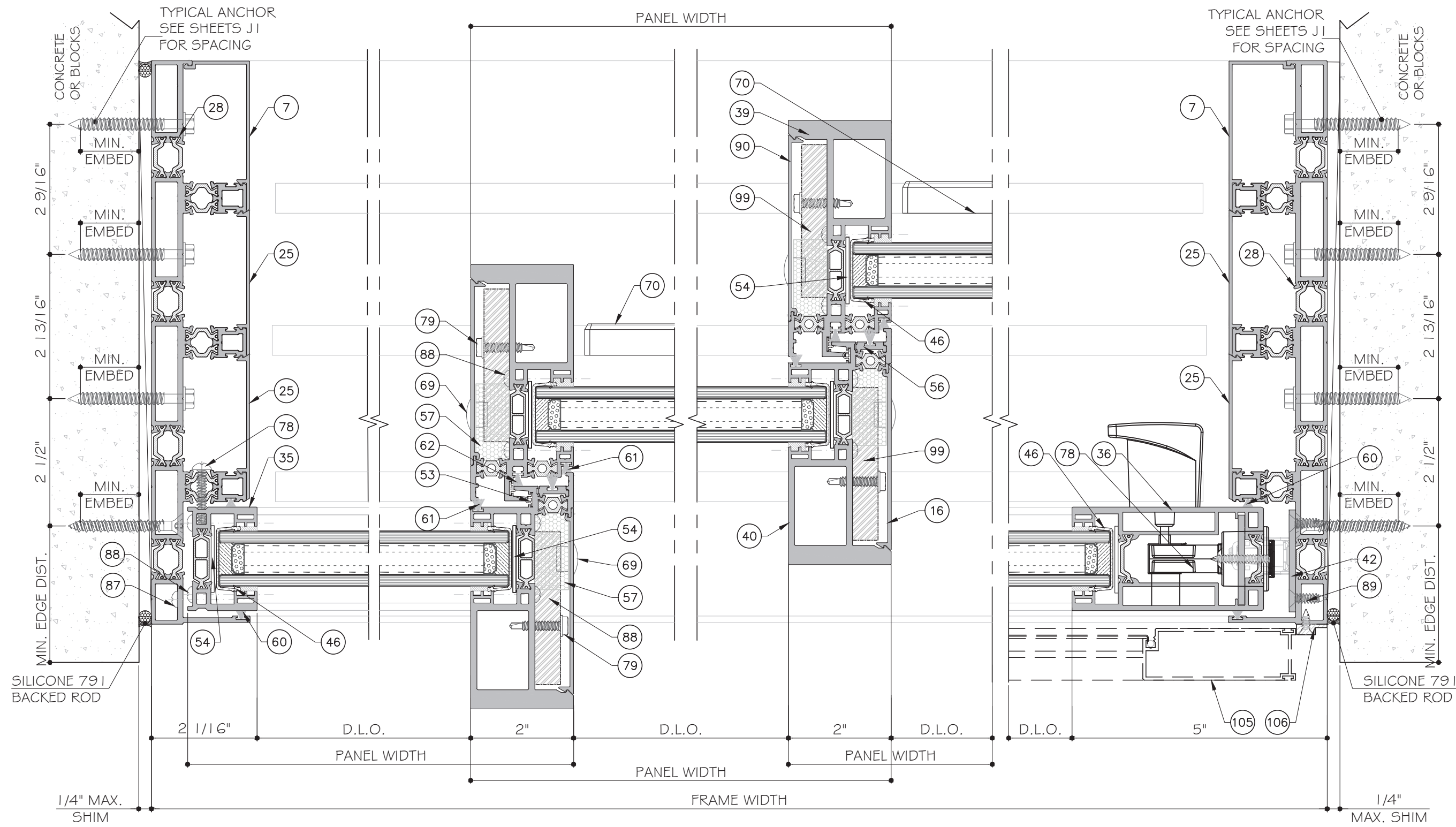
2
D2A
DETAIL
SCREEN
OPTION



THREE (3) TRACK DOOR DETAILS

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

Drawn Date	Scale
09.15.2023	
DRAWING NO.	
AD21-57	
Sheet No.	
19A OF 35	



1
D4

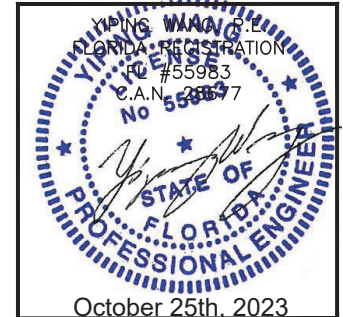
2
D4

3
D4

1A
D4

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

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



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 (N.I.)

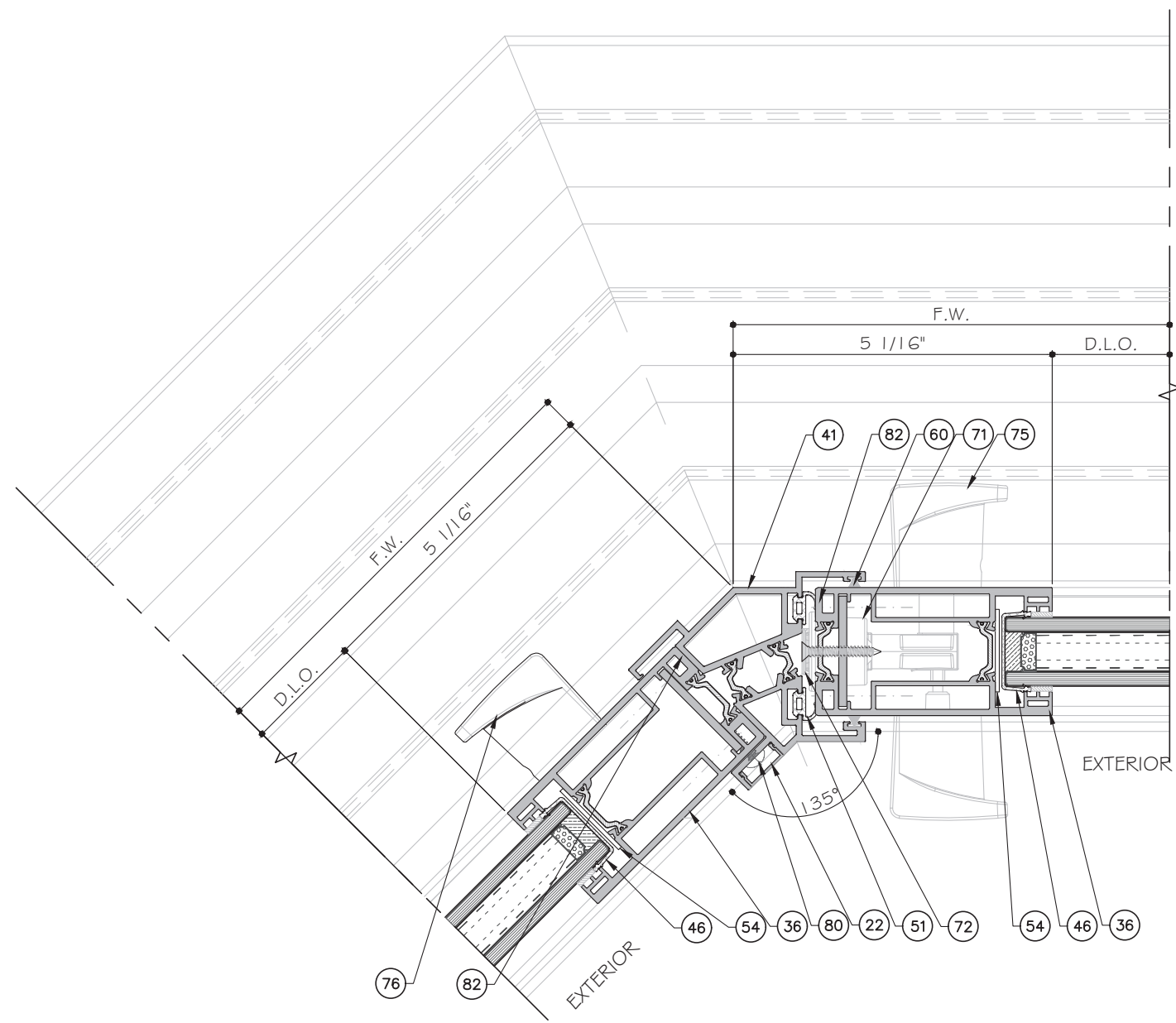
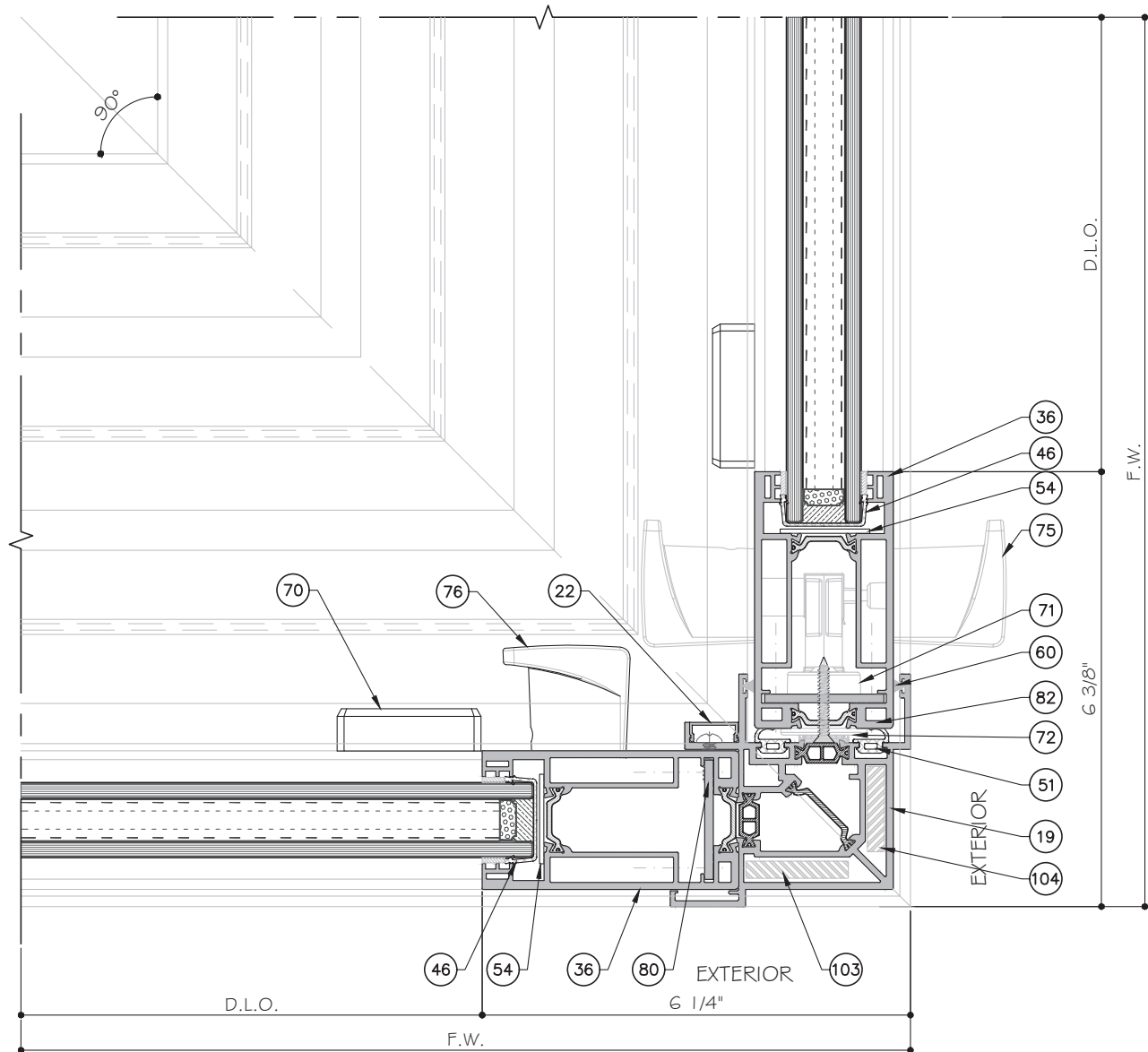
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023

Drawn Date: 09.15.2023
Scale: _____

DRAWING NO. **AD21-57**

Sheet No. **D4**
21 OF 35



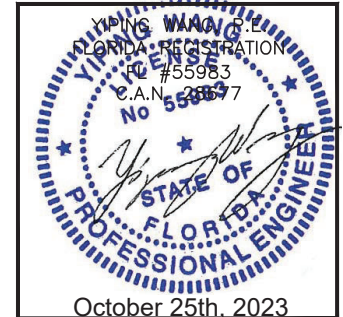
1 DETAIL
D4.1

2 DETAIL
D4.1

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

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

CORNER DETAILS



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 (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

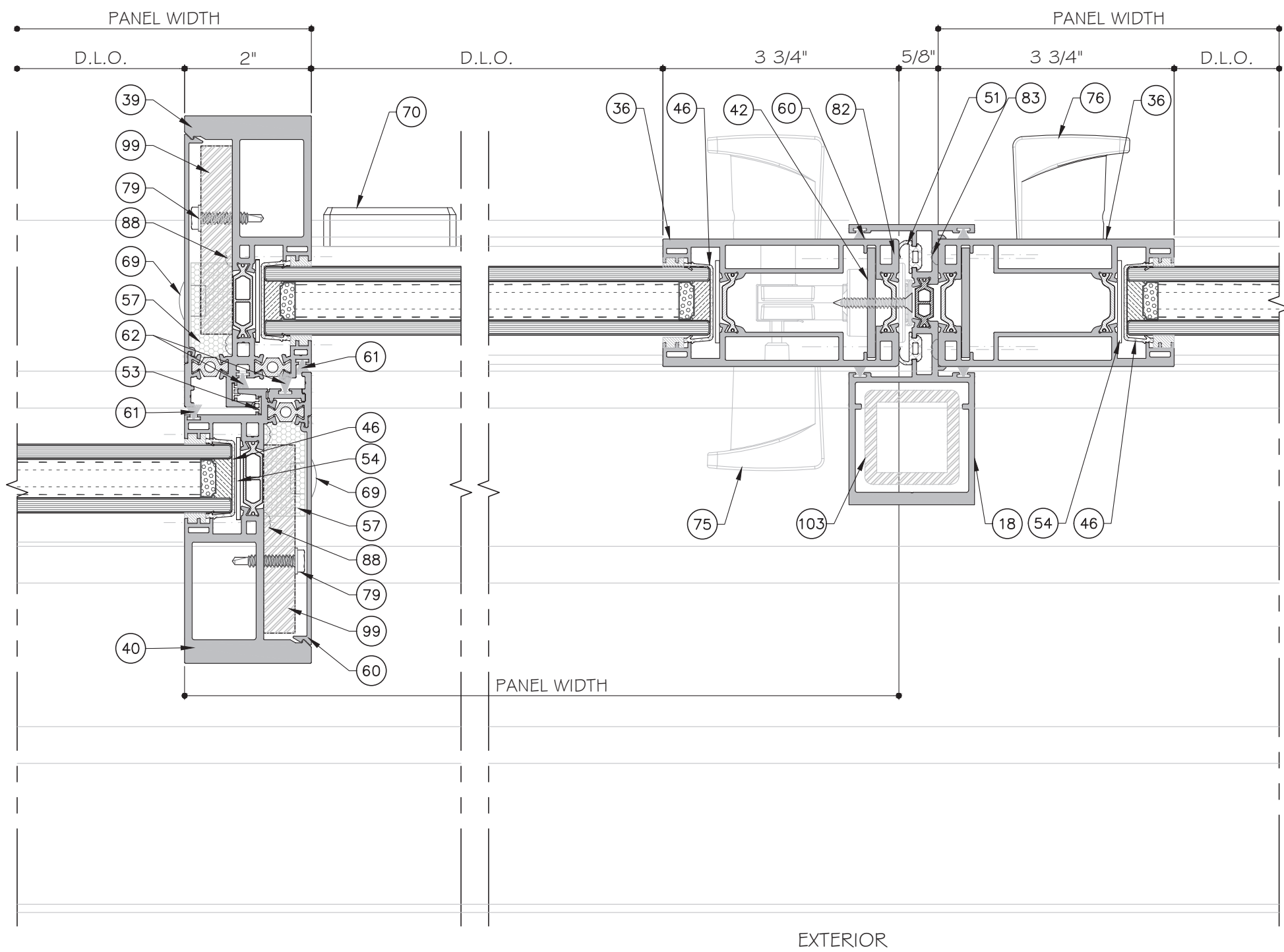
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023

Drawn Date: 09.15.2023

DRAWING NO. AD21-57

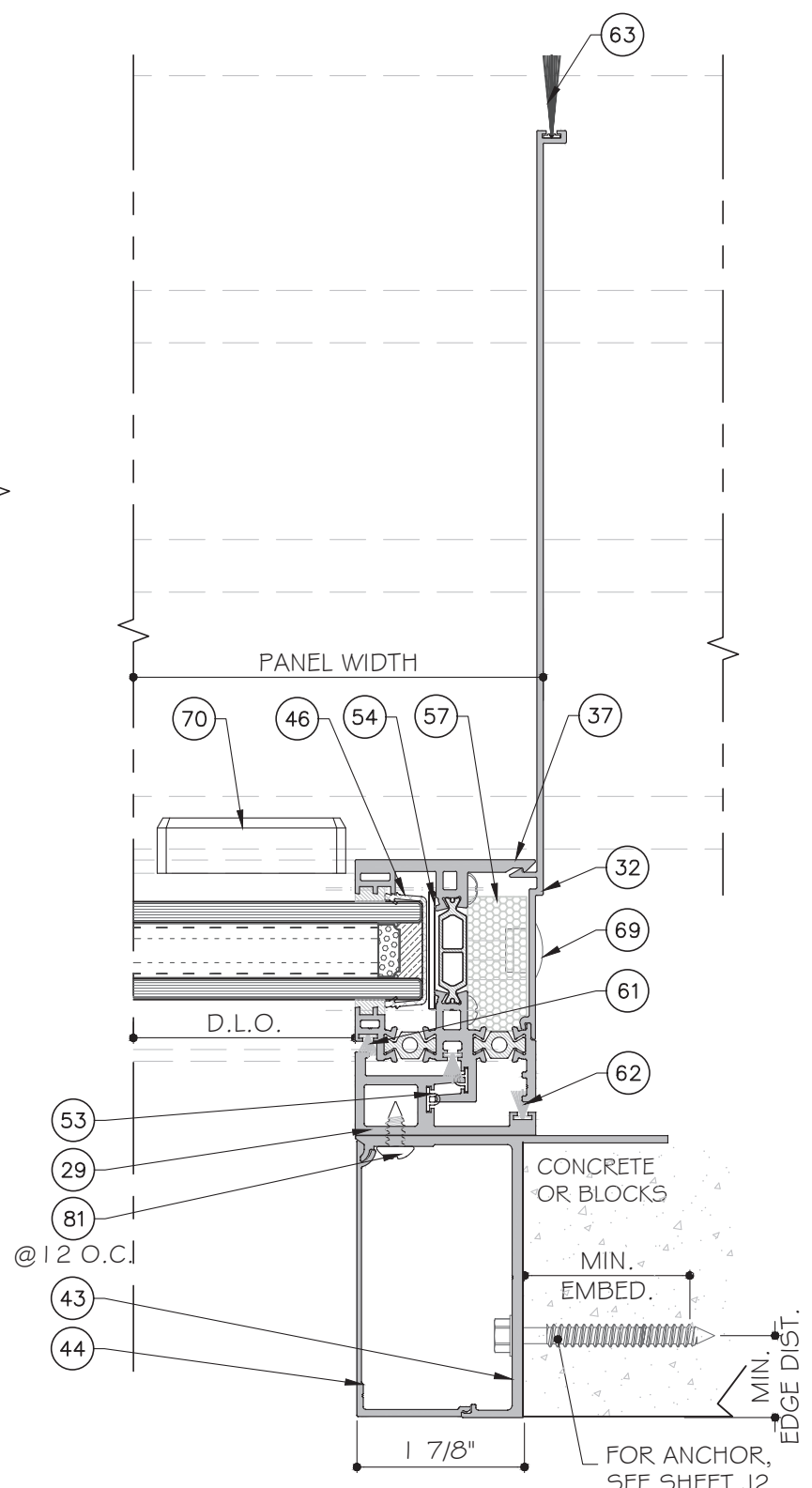
Sheet No. D4.1

22 OF 35



1
D5

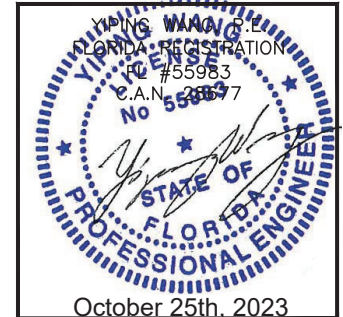
2
D5



3
D5

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

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



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 (N.I.)

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023

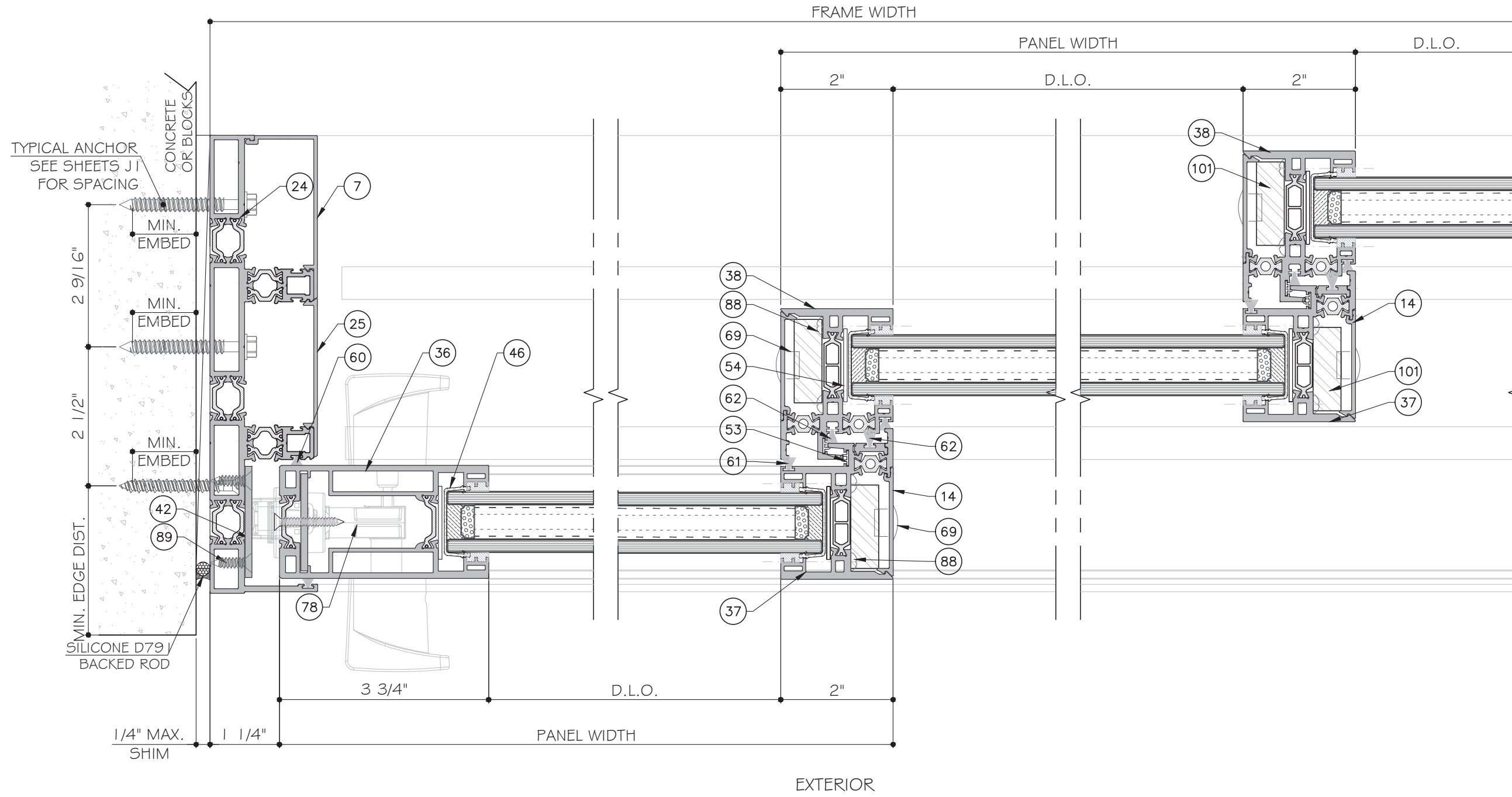
Drawn Date: 09.15.2023

DRAWING NO. AD21-57

Sheet No. D5

October 25th, 2023

23 OF 35



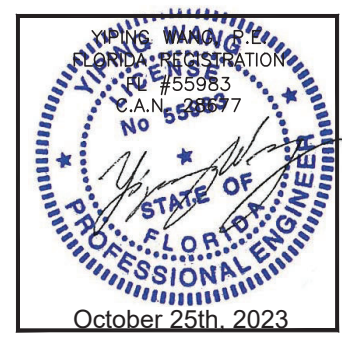
1
D6
DETAIL

2
D6
DETAIL

3
D6
DETAIL

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

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



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

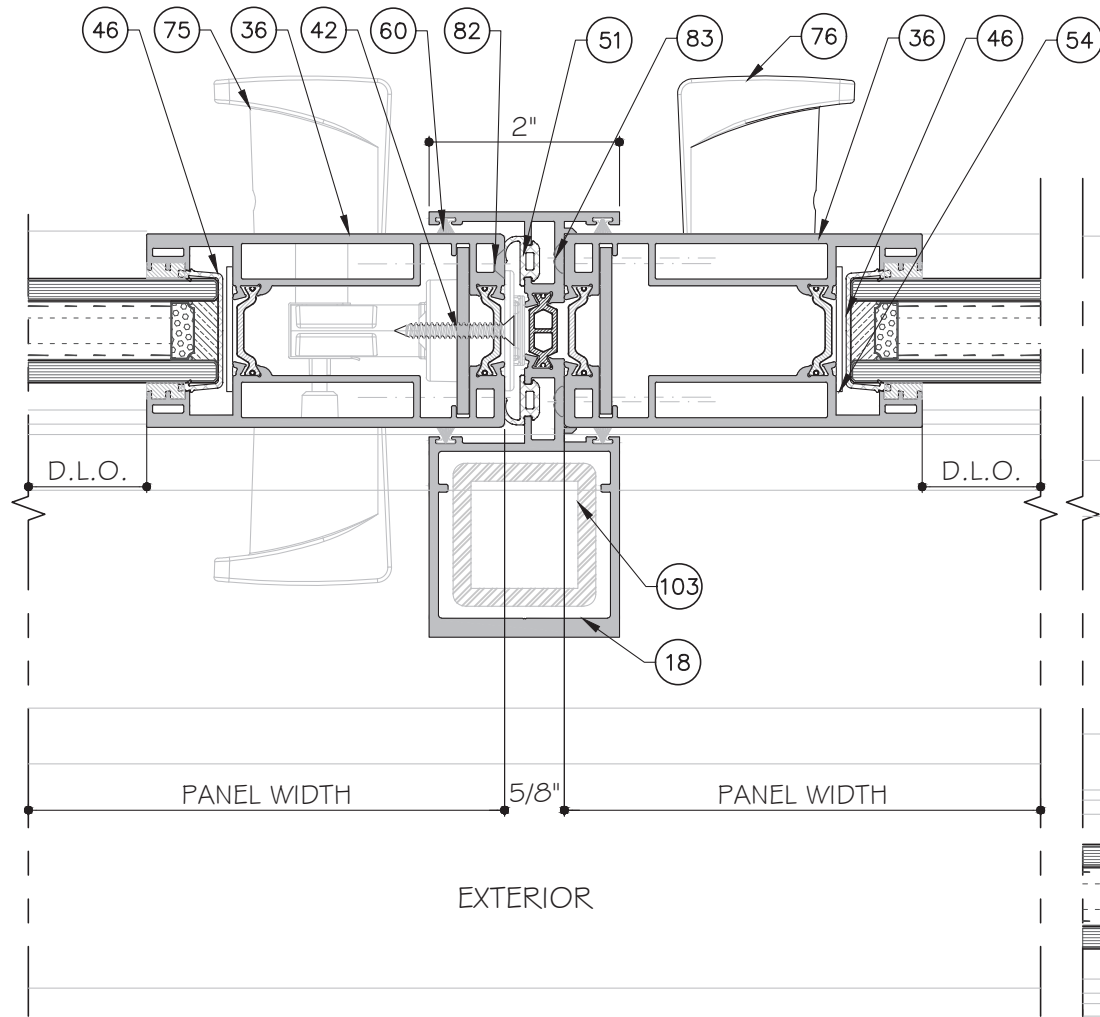
ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

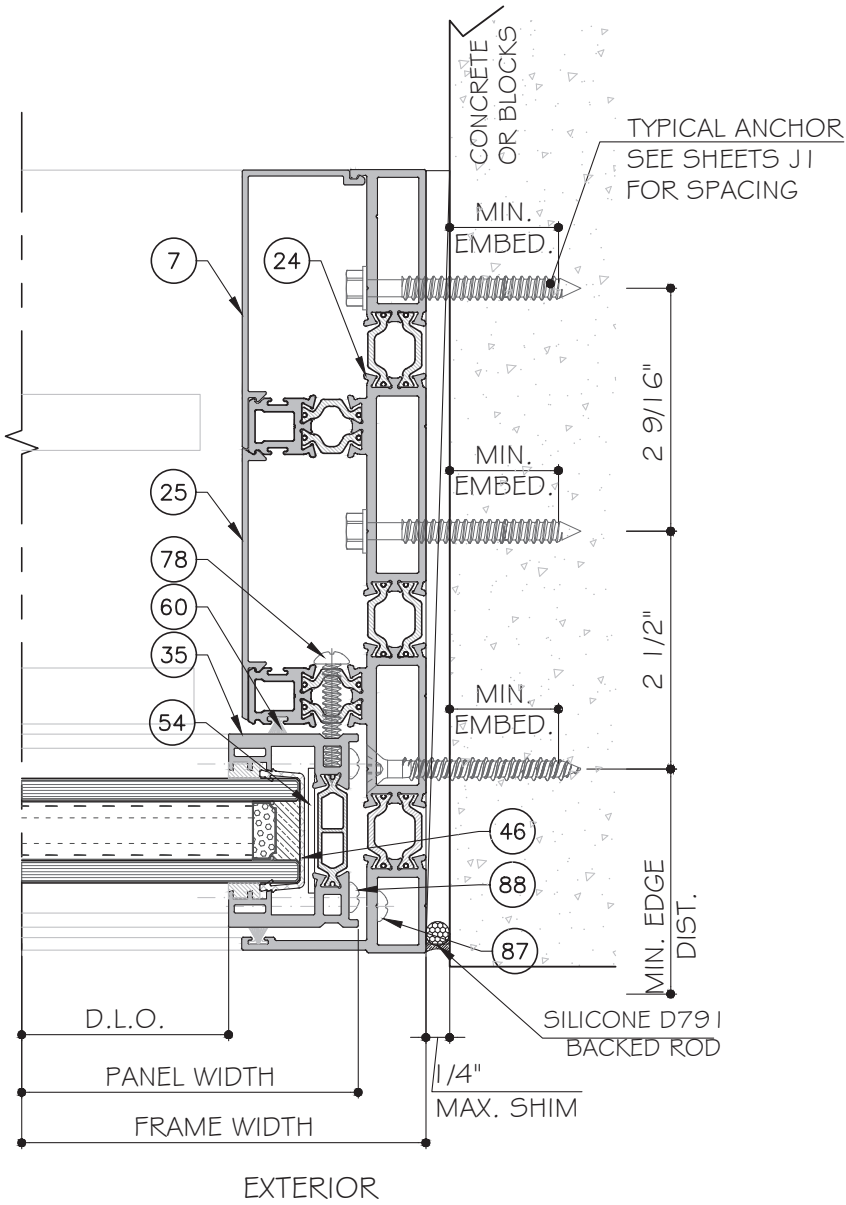
Drawn Date: 09.15.2023 Scale:

DRAWING NO. AD21-57

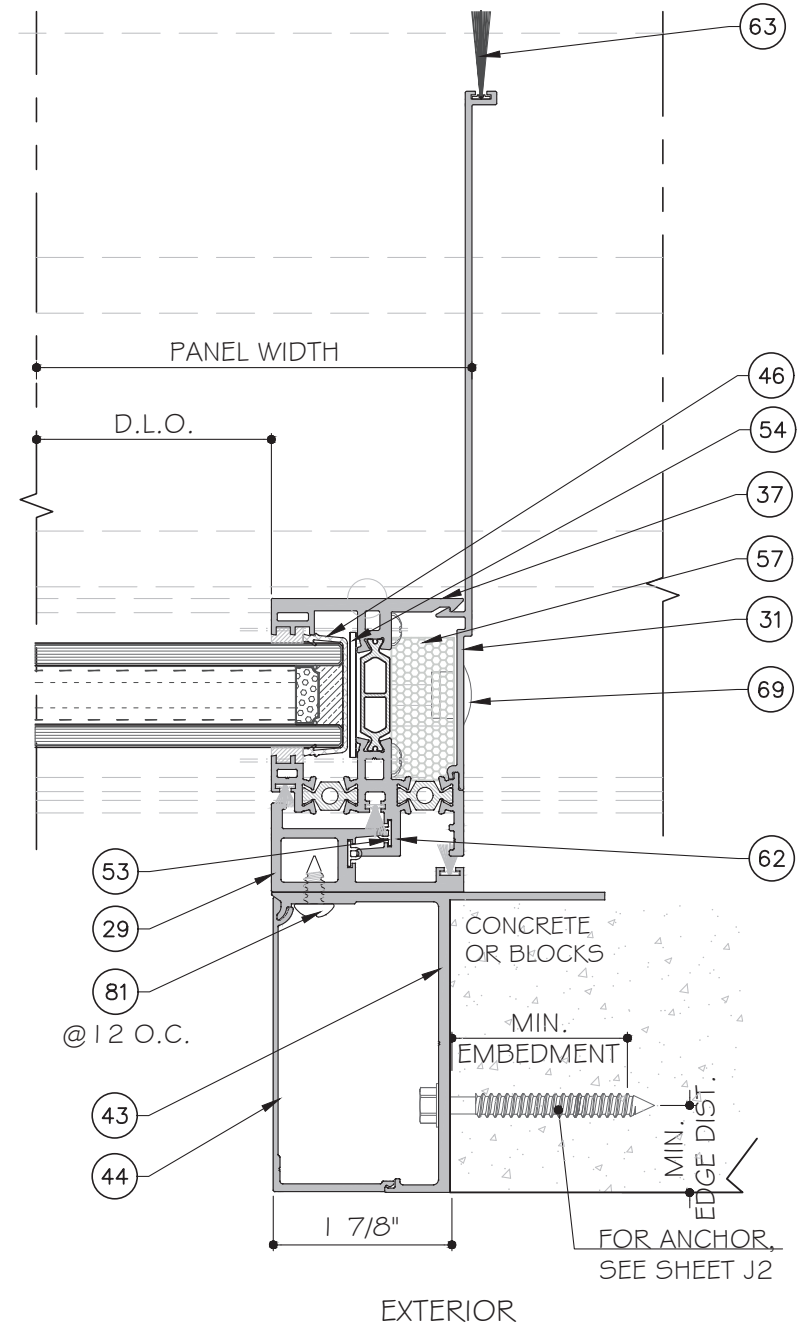
Sheet No. D6
24 OF 35



1
D7
DETAIL

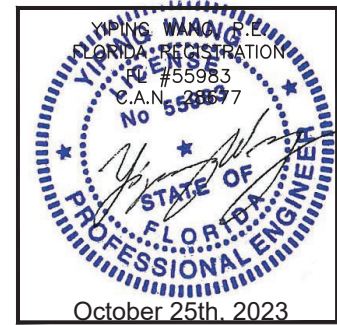


2
D7
DETAIL

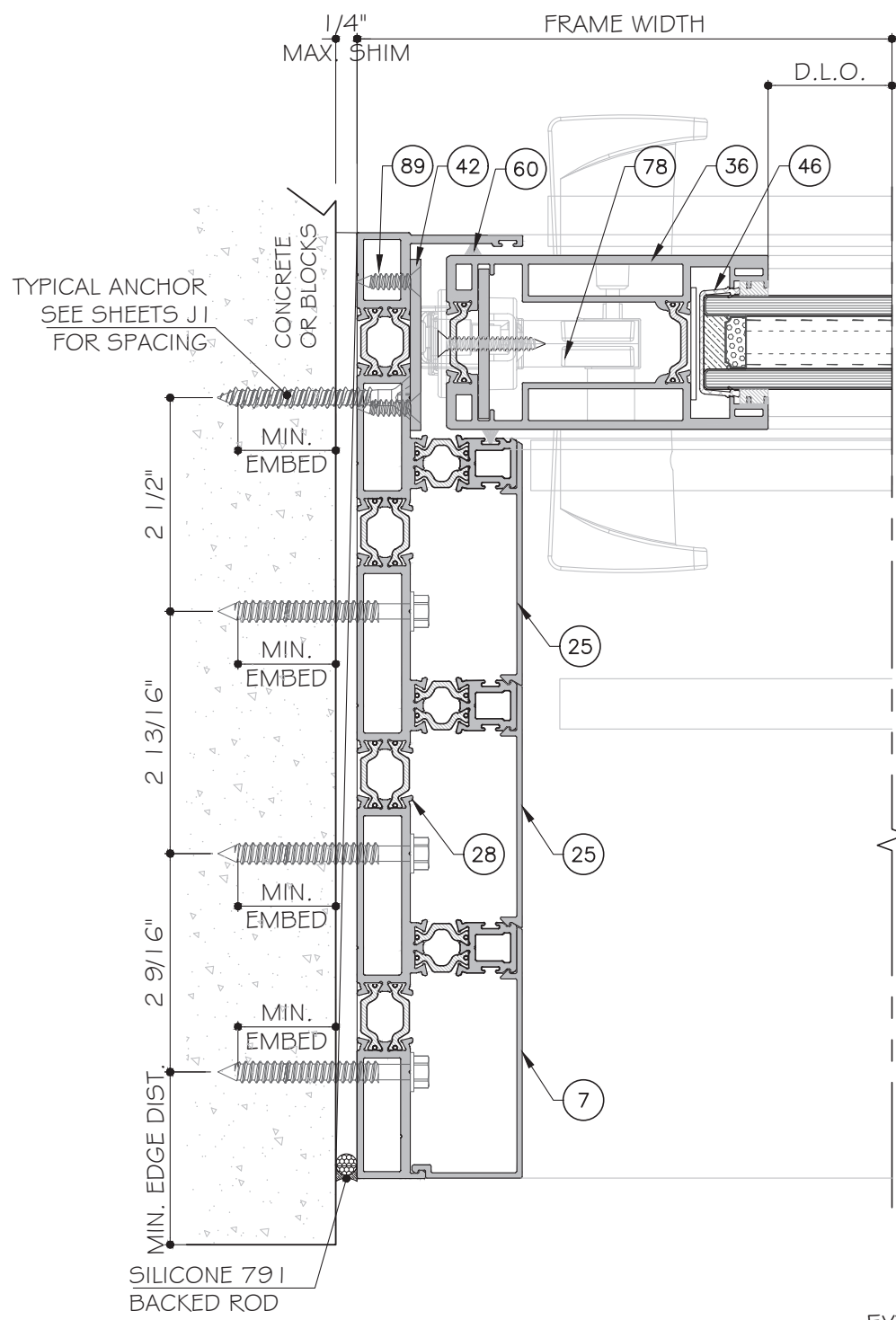


3
D7
DETAIL

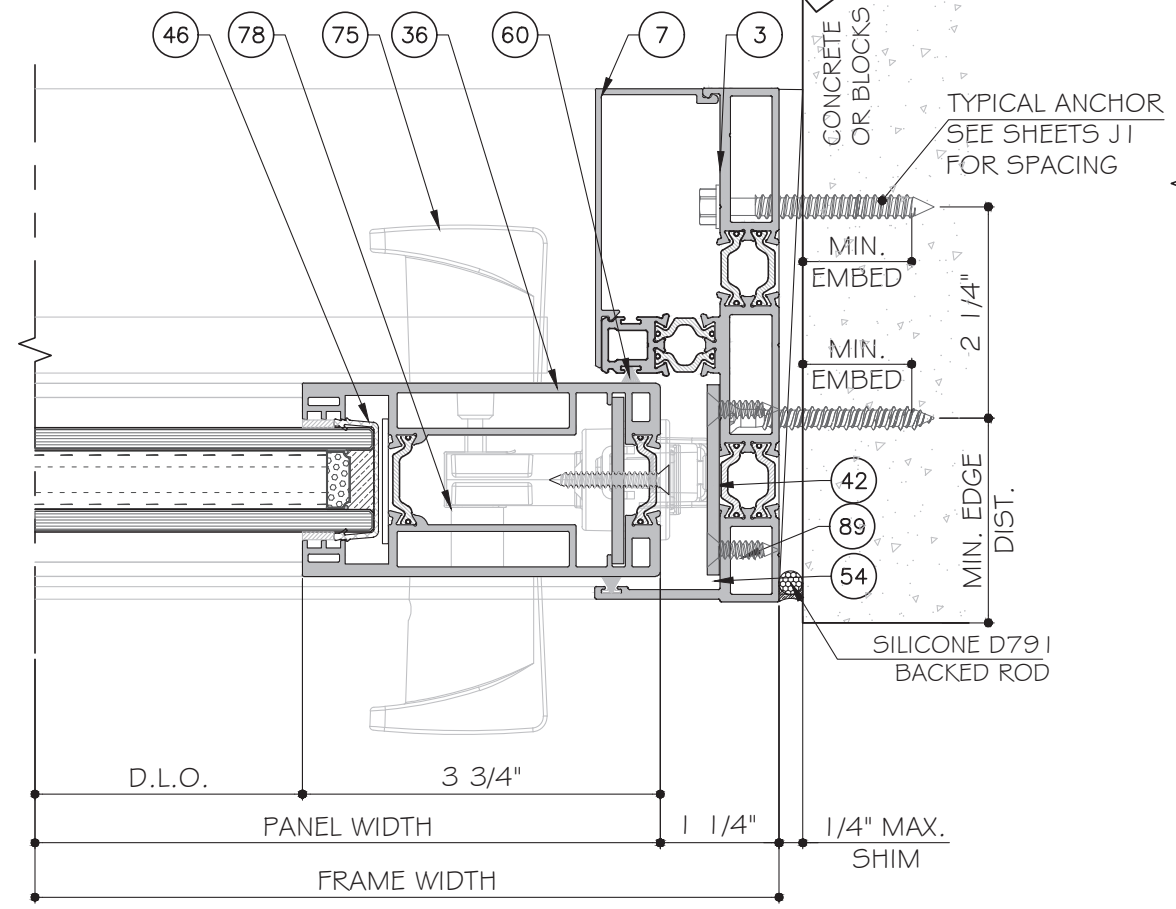
THREE (3) TRACK DOOR DETAILS



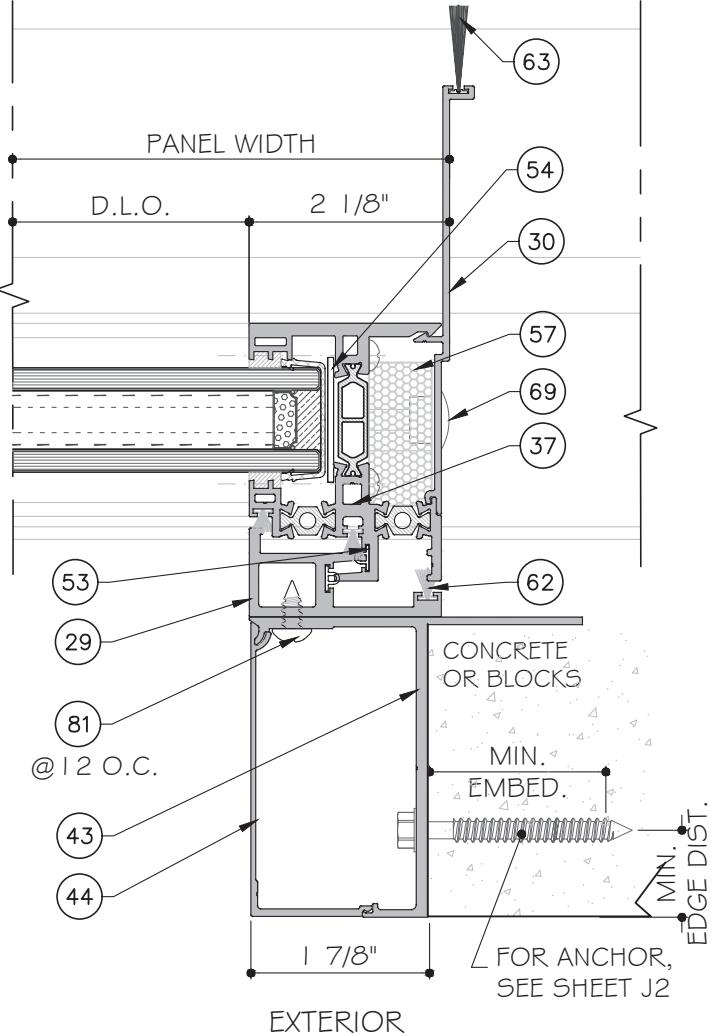
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023
Drawn Date: 09.15.2023 Scale: _____ DRAWING NO.: AD21-57 Sheet No.: D7 October 25th, 2023 25 OF 35			



1
D8



2
D8



3
D8

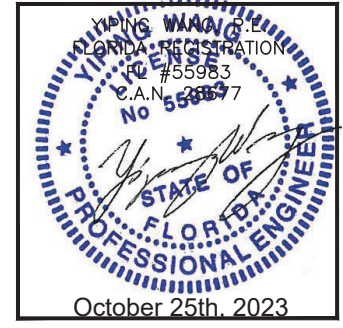
TWO (2) TRACK DOOR DETAILS

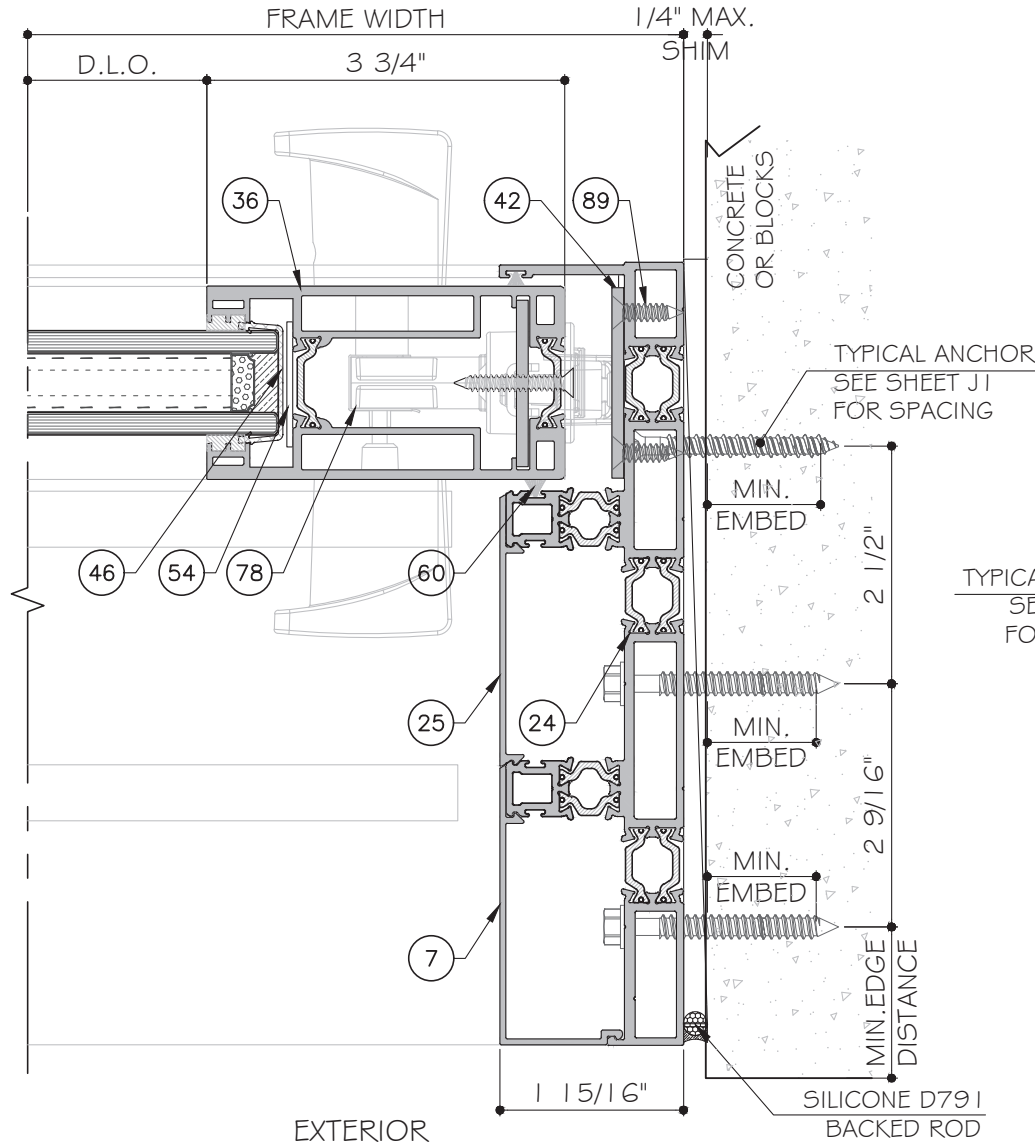
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	Jamee	UPDATE TO FCC 2023

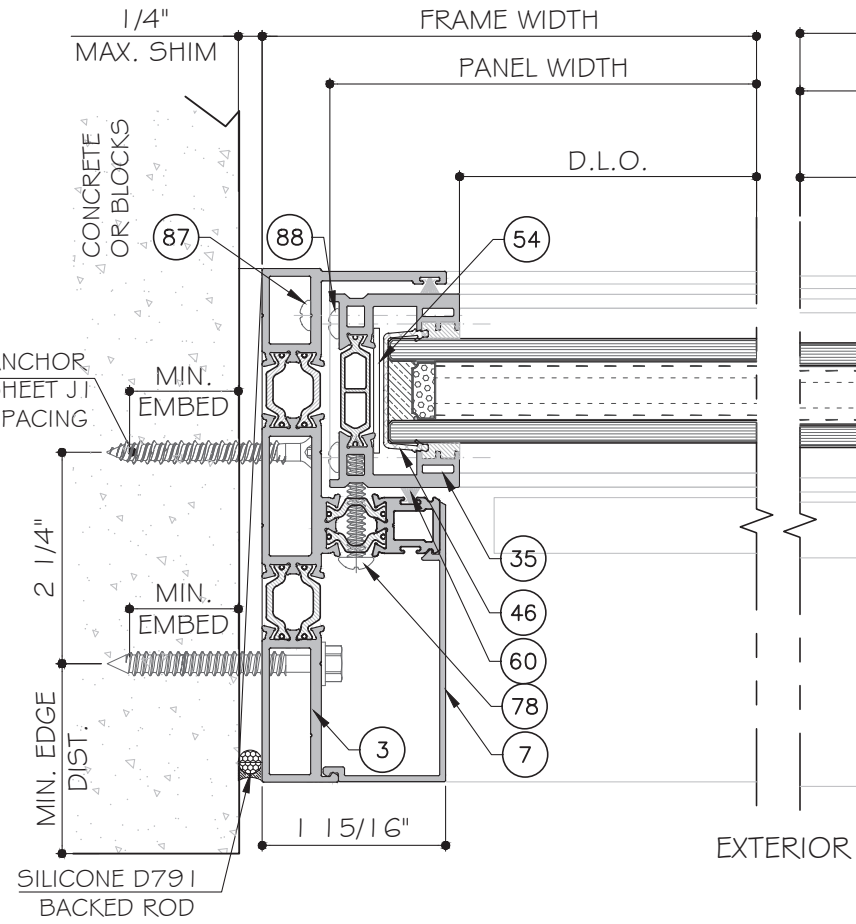
Drawn Date	Scale
09.15.2023	
DRAWING NO.	
AD21-57	
SHEET NO.	
D8	
SHEET NO.	
26 OF 35	





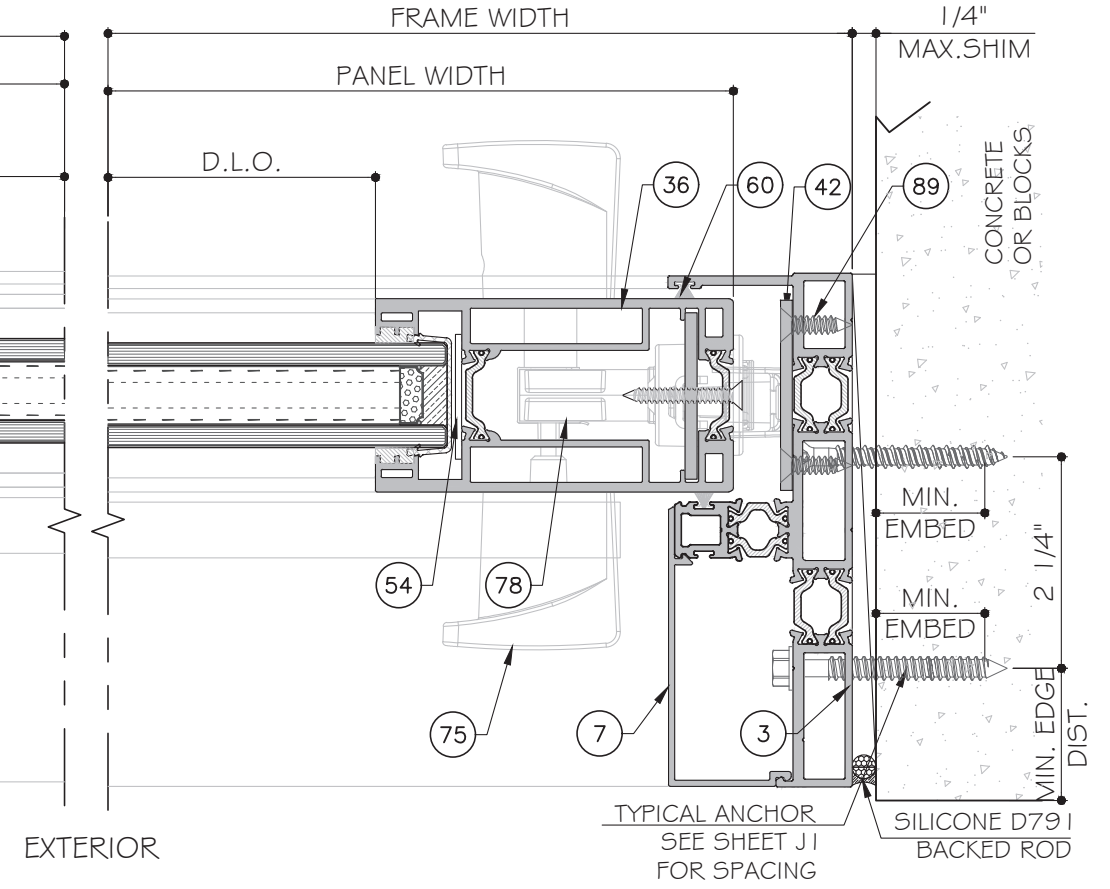
1
DIO

DETAIL



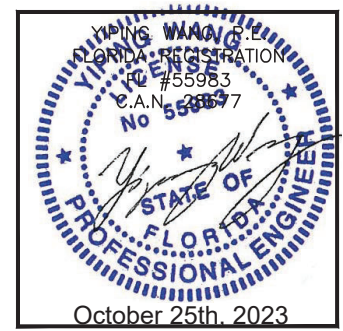
2
DIO

DETAIL

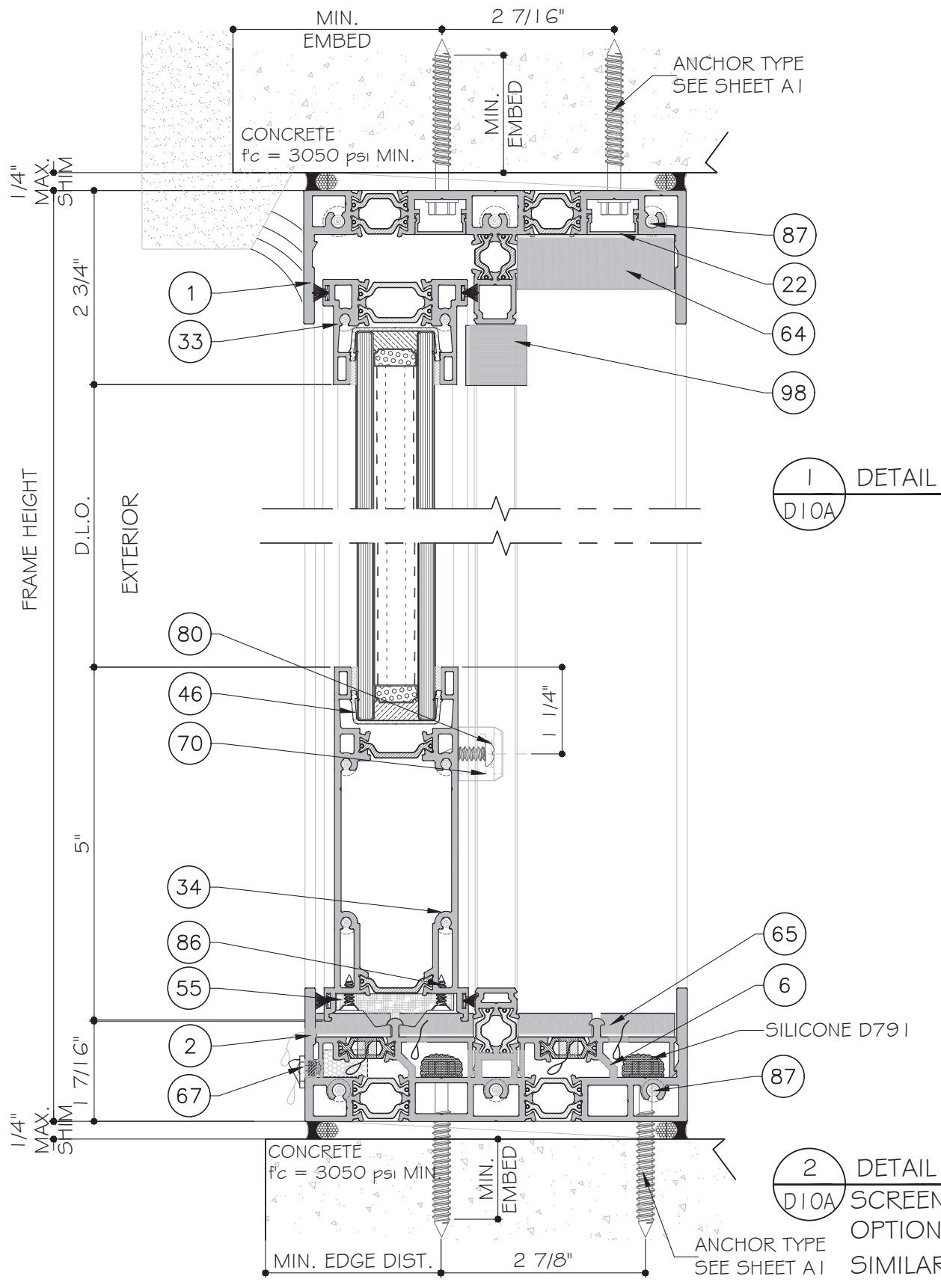


3
DIO

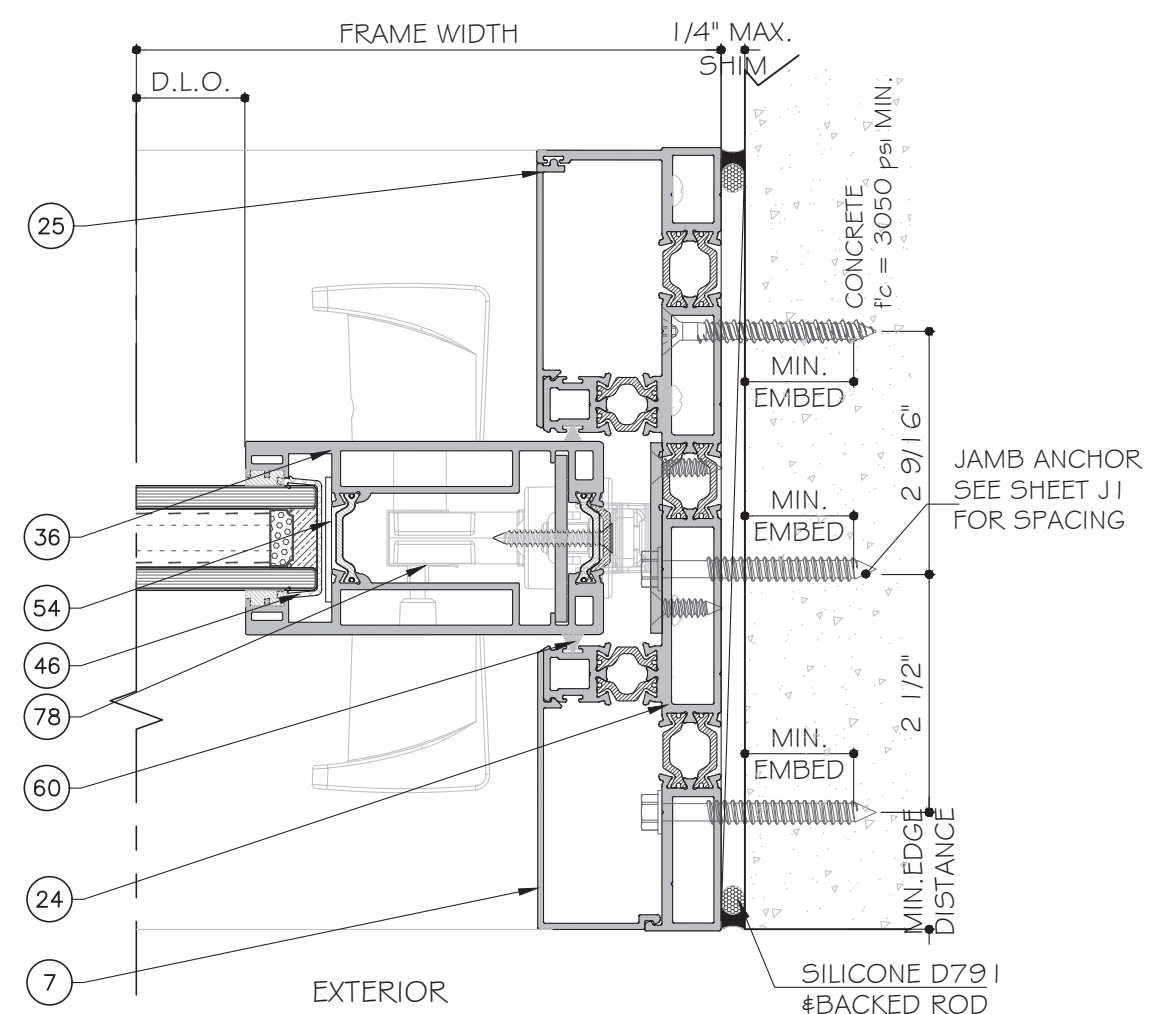
DETAIL



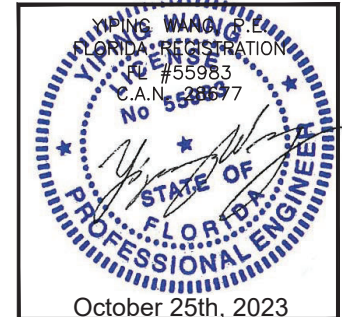
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023
Drawn Date: 09.15.2023		Scale:	
DRAWING NO. AD21-57			
Sheet No. D10			
October 25th, 2023			
28 OF 35			



2 D10A DETAIL SCREEN OPTION SIMILAR TO 2/D3



3 D10A DETAIL



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 (N.I.)

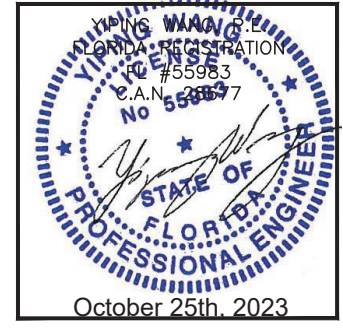
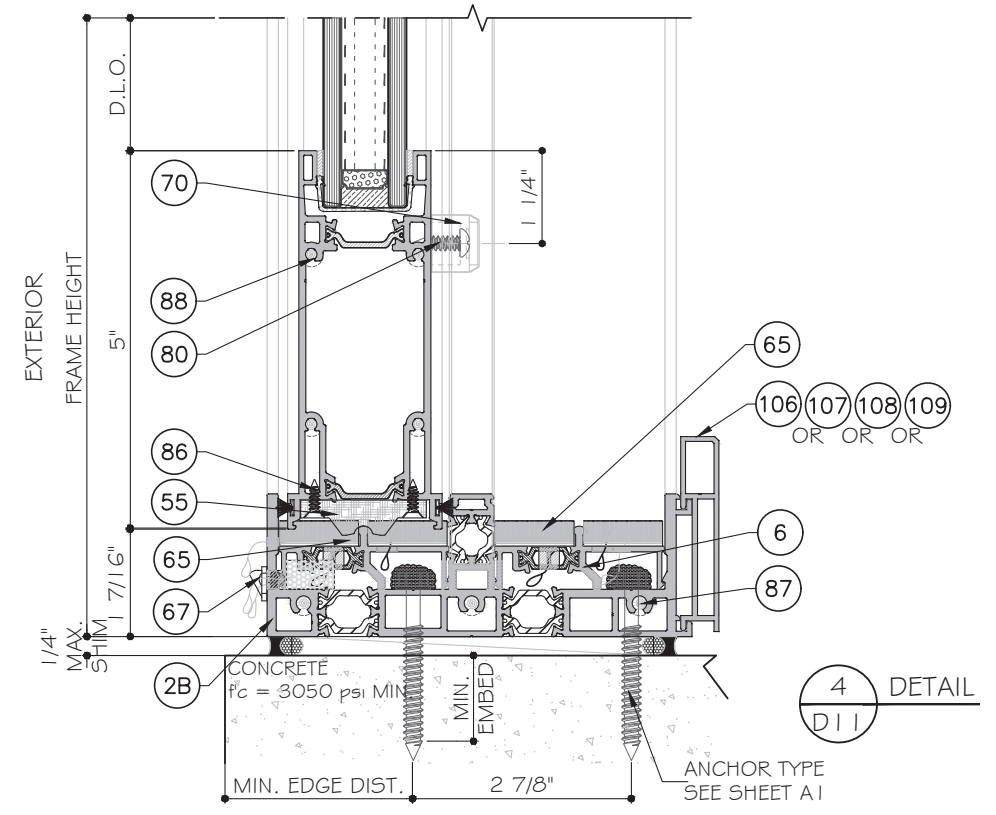
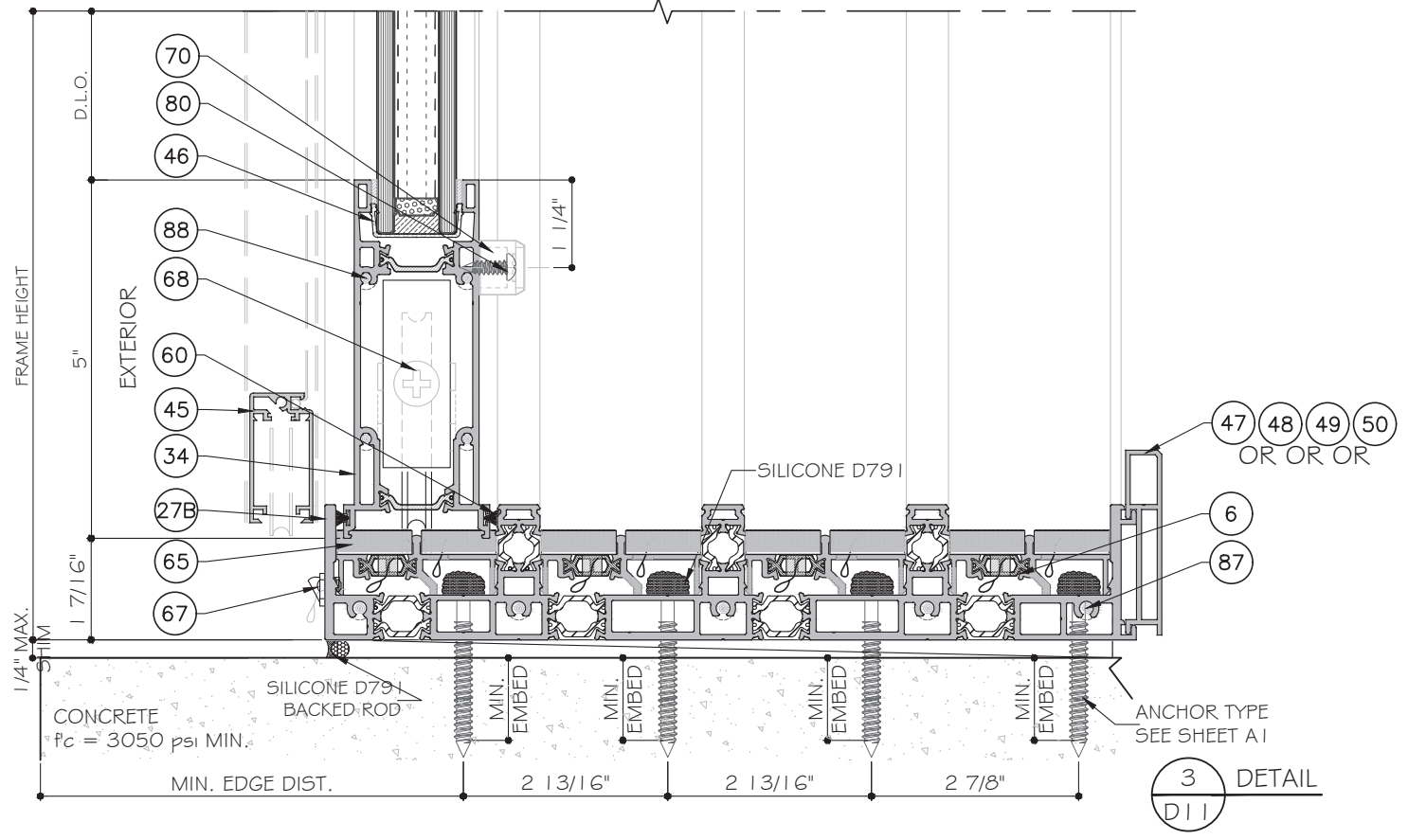
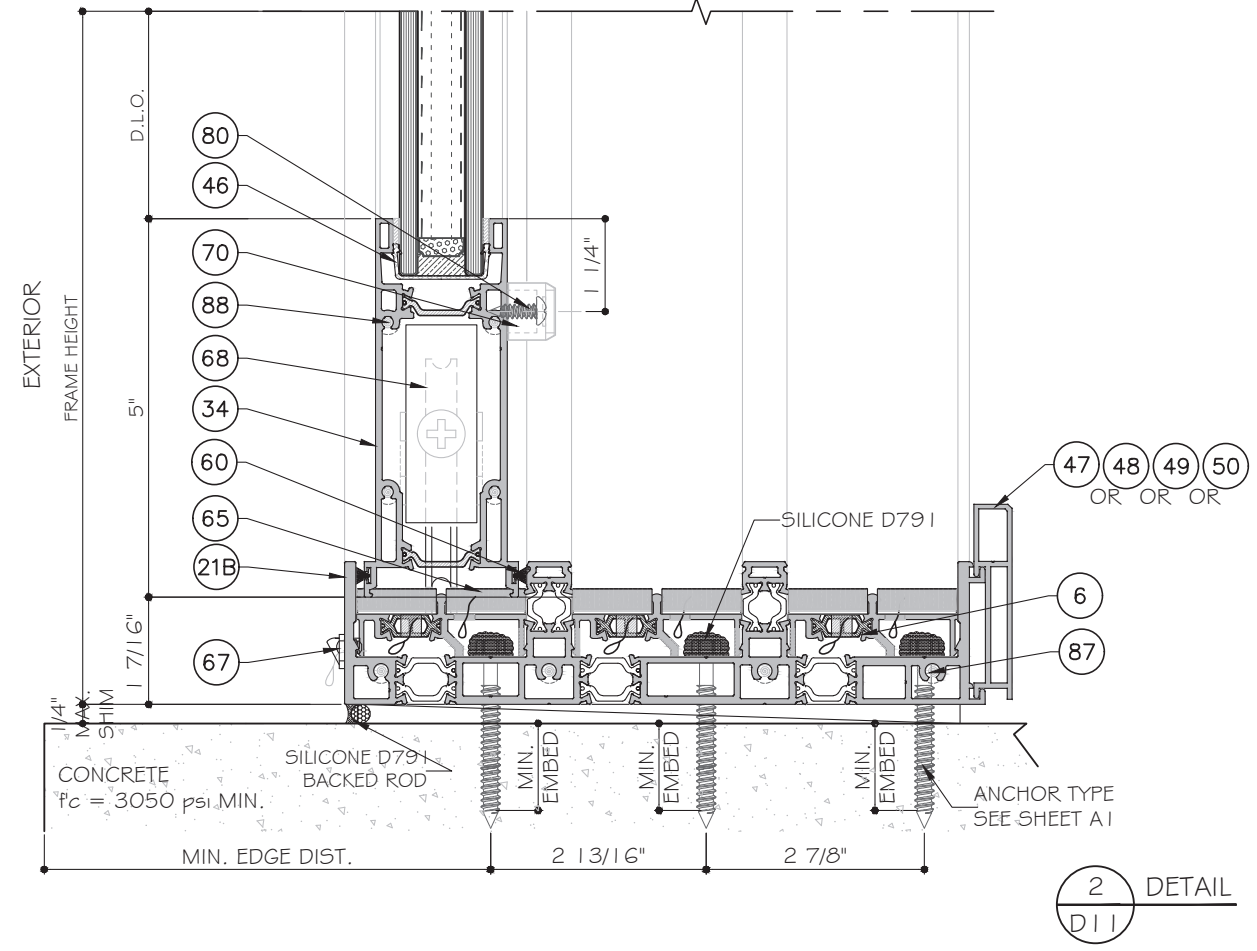
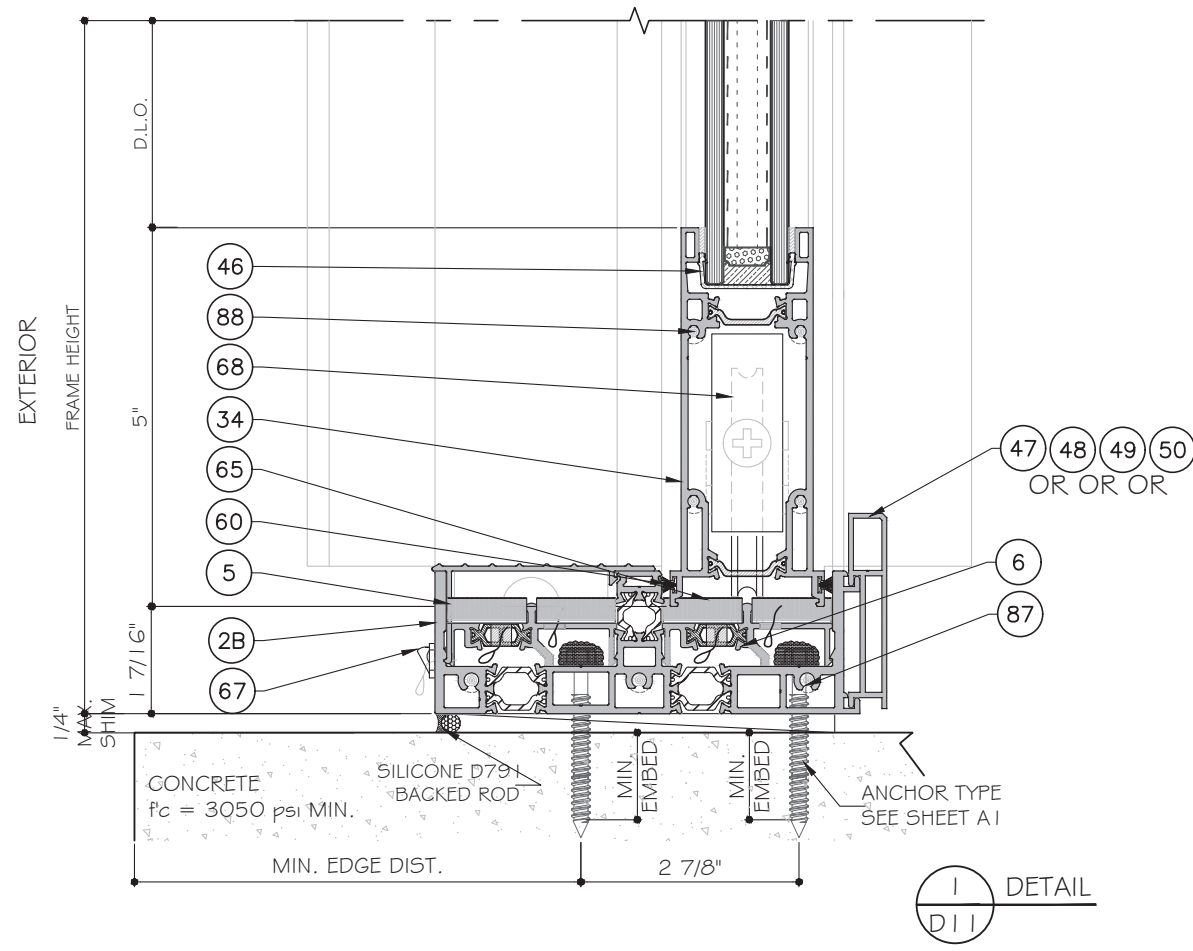
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FEB 2023

Drawn Date: 09.15.2023 Scale: _____

DRAWING NO. AD21-57

Sheet No. D10A

28A OF 35



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 (N.I.)

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

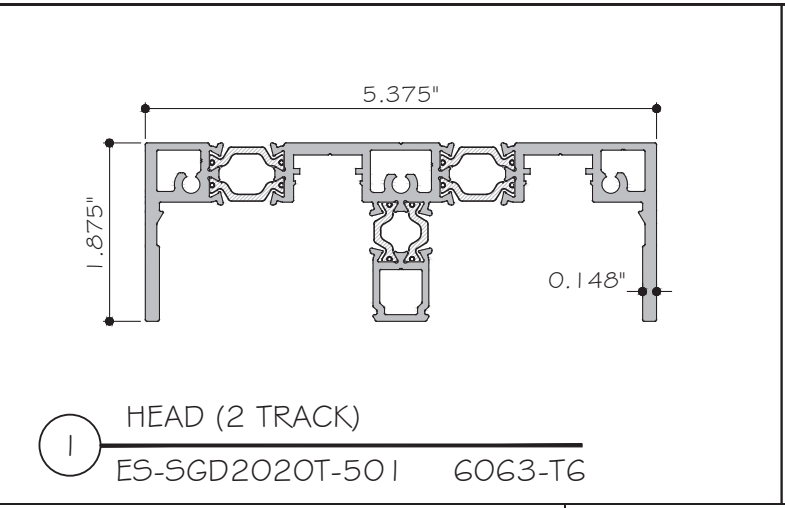
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FEB 2023

Drawn Date: 09.15.2023 Scale:

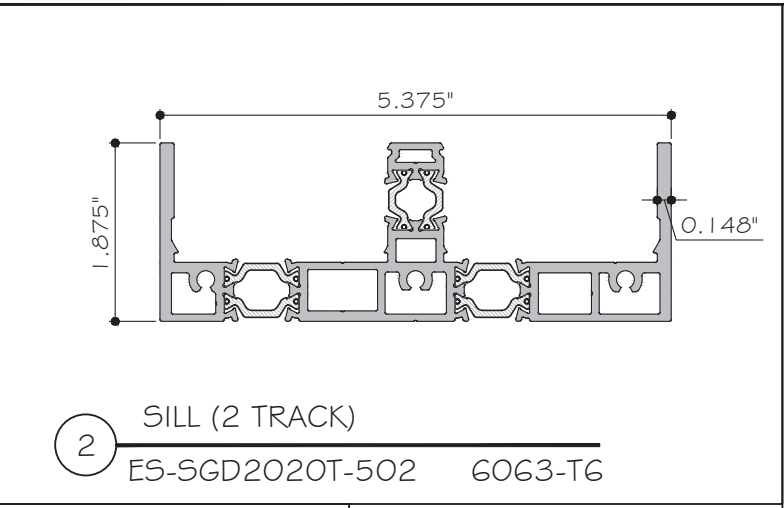
DRAWING NO. AD21-57

D11

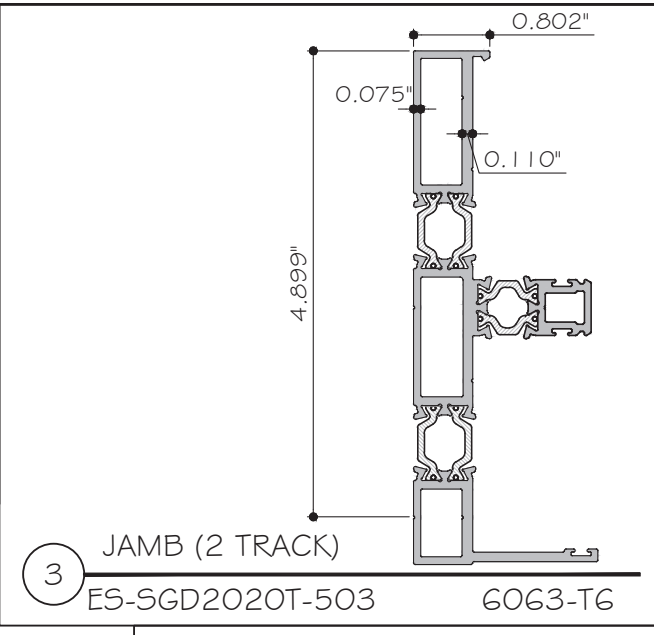
Sheet No. 29 OF 35



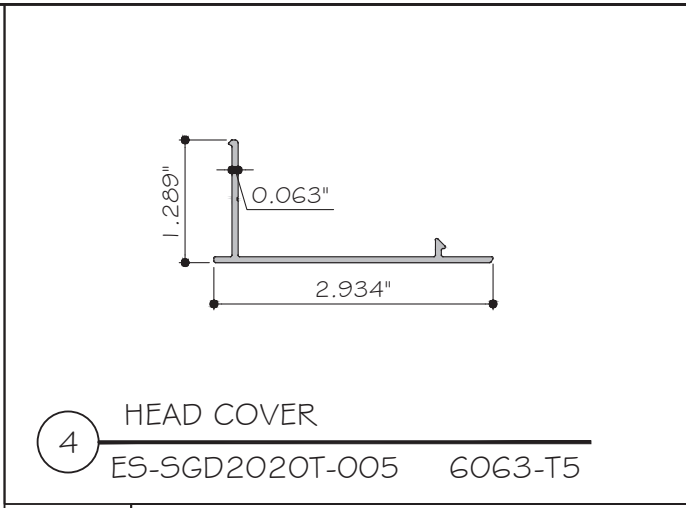
1 HEAD (2 TRACK)
ES-SGD2020T-501 6063-T6



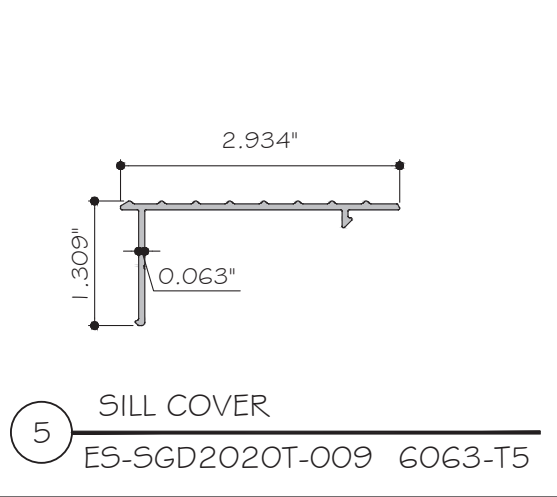
2 SILL (2 TRACK)
ES-SGD2020T-502 6063-T6



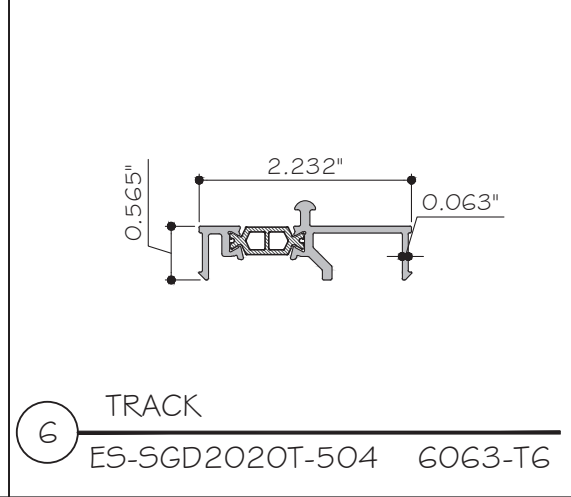
3 JAMB (2 TRACK)
ES-SGD2020T-503 6063-T6



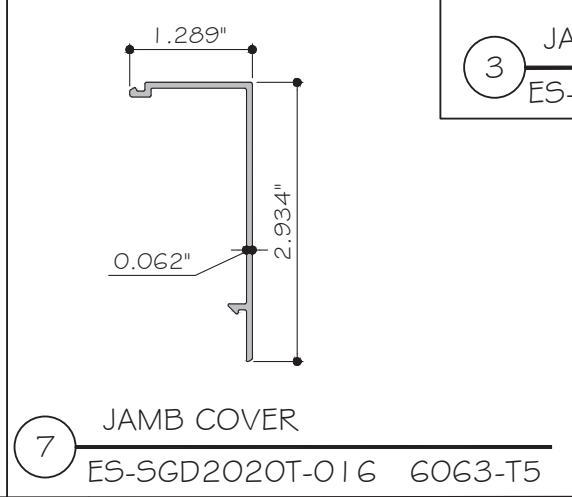
4 HEAD COVER
ES-SGD2020T-005 6063-T5



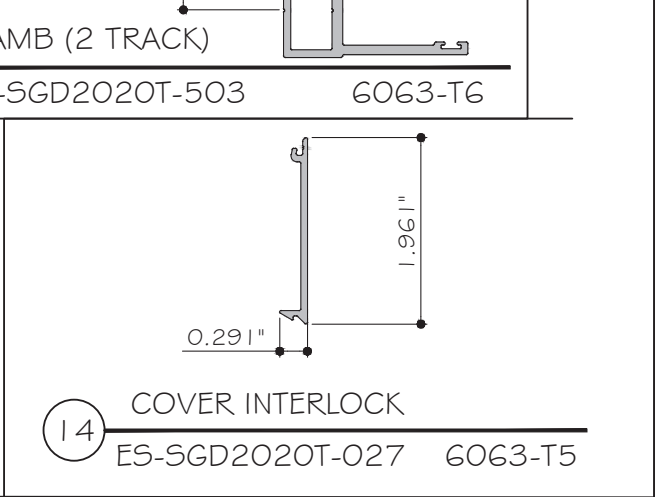
5 SILL COVER
ES-SGD2020T-009 6063-T5



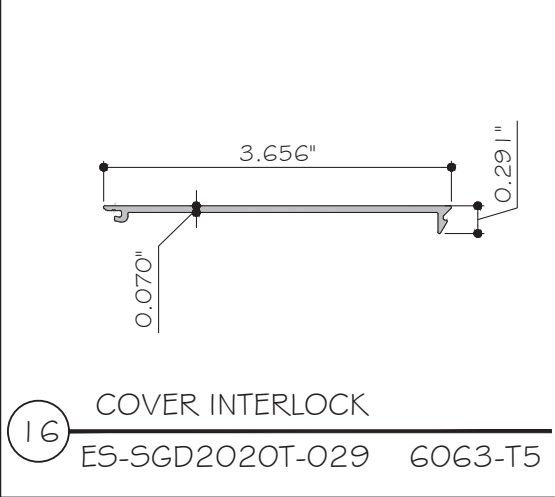
6 TRACK
ES-SGD2020T-504 6063-T6



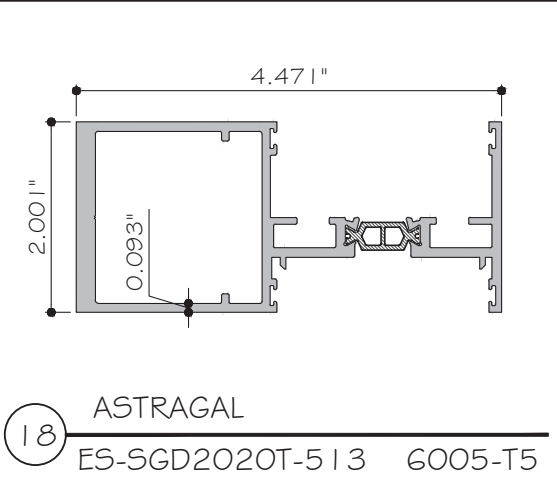
7 JAMB COVER
ES-SGD2020T-016 6063-T5



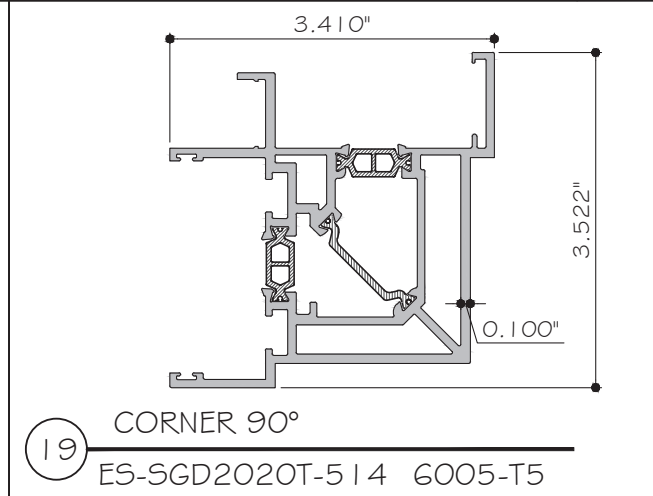
14 COVER INTERLOCK
ES-SGD2020T-027 6063-T5



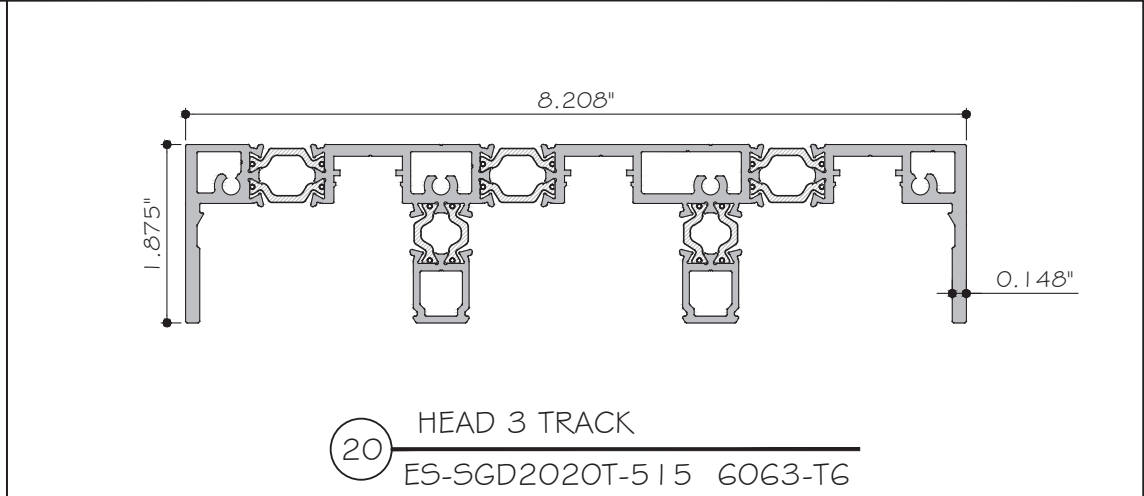
16 COVER INTERLOCK
ES-SGD2020T-029 6063-T5



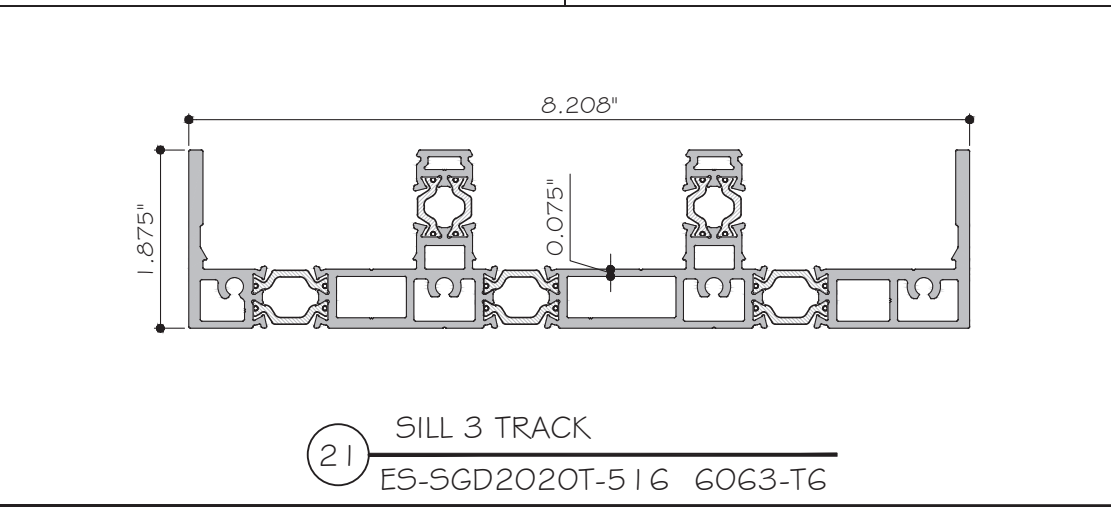
18 ASTRAGAL
ES-SGD2020T-513 6005-T5



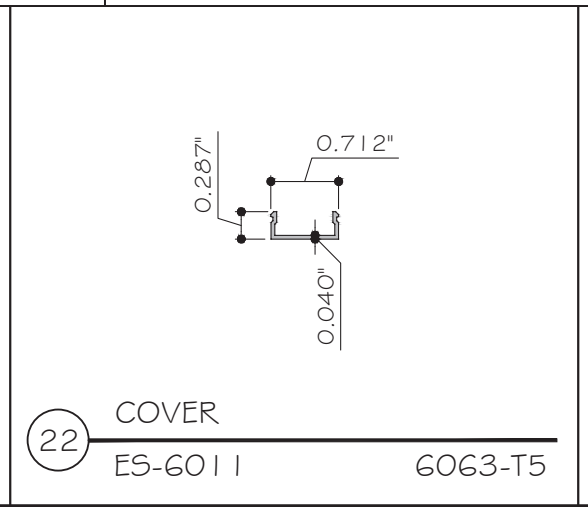
19 CORNER 90°
ES-SGD2020T-514 6005-T5



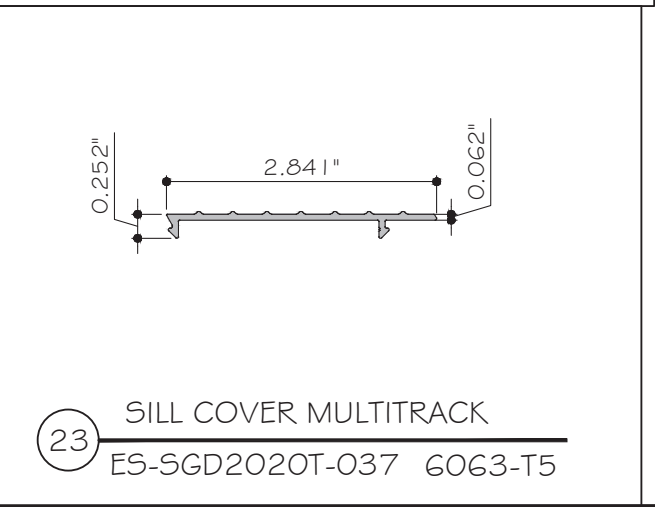
20 HEAD 3 TRACK
ES-SGD2020T-515 6063-T6



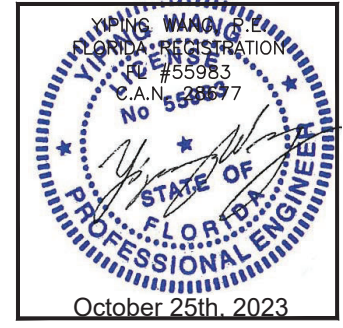
21 SILL 3 TRACK
ES-SGD2020T-516 6063-T6



22 COVER
ES-6011 6063-T5



23 SILL COVER MULTITRACK
ES-SGD2020T-037 6063-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 (N.I.)

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

Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FEB 2023

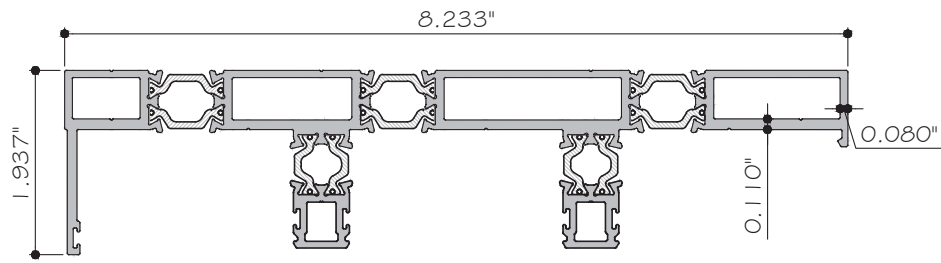
Drawn Date: 09.15.2023 Scale: _____

DRAWING NO. **AD21-57**

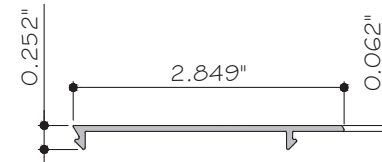
PARTS

Sheet No. **30 OF 35**

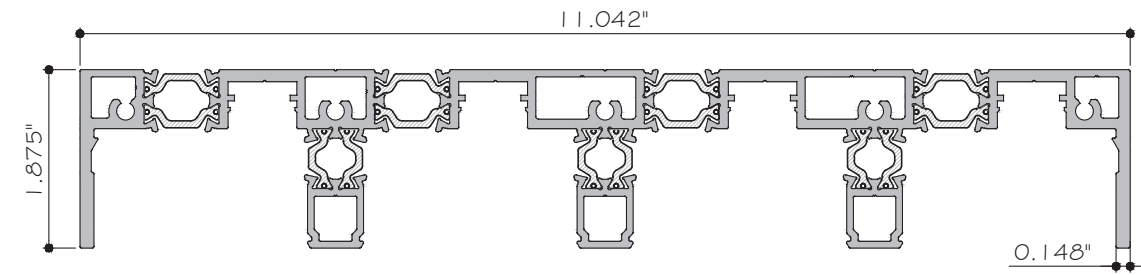
October 25th, 2023



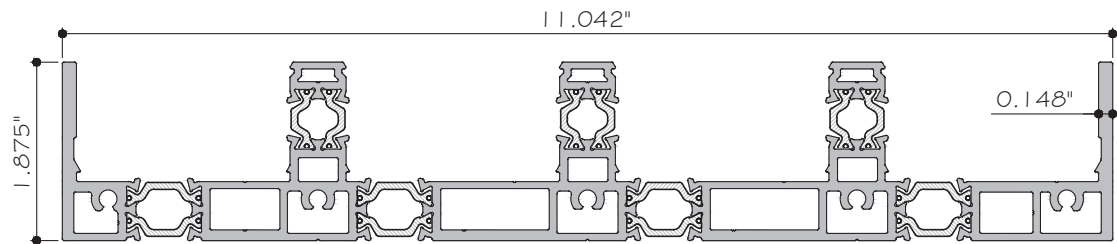
24 JAMB 3 TRACK
ES-SGD2020T-517 6063-T6



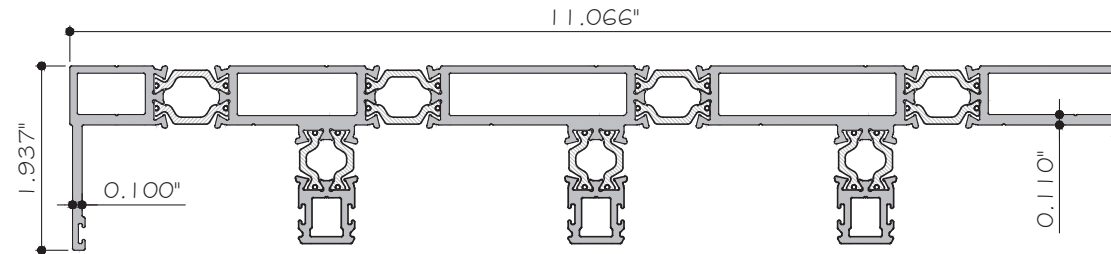
25 JAMB COVER MULTITRACK
ES-SGD2020T-039 6063-T5



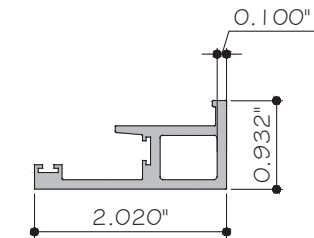
26 HEAD - 4 TRACK
ES-SGD2020T-518 6063-T6



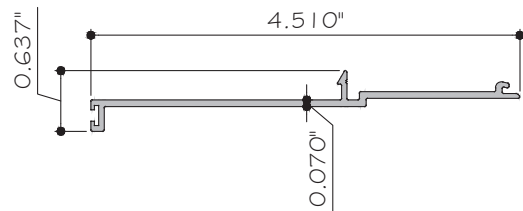
27 SILL - 4 TRACK
ES-SGD2020T-519 6063-T6



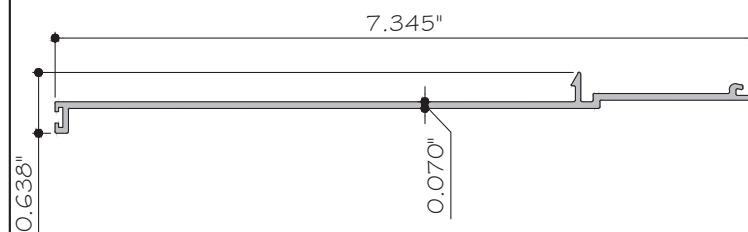
28 JAMB 4 TRACK
ES-SGD2020T-520 6063-T6



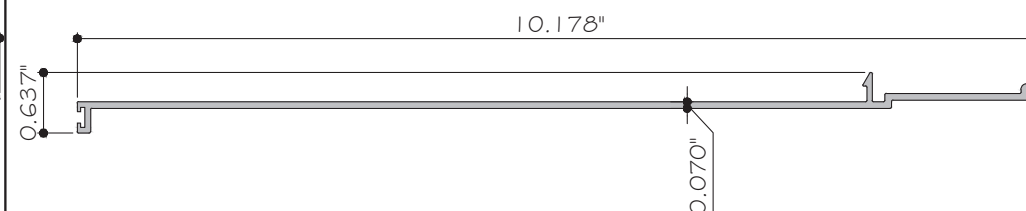
29 INTERLOCK POCKET
ES-SGD2020T-040 6005-T5



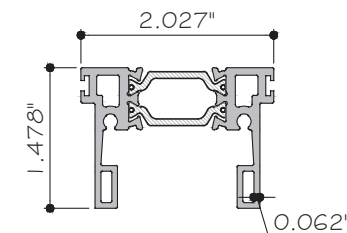
30 COVER POCKET 2 TRACK
ES-SGD2020T-041 6063-T6



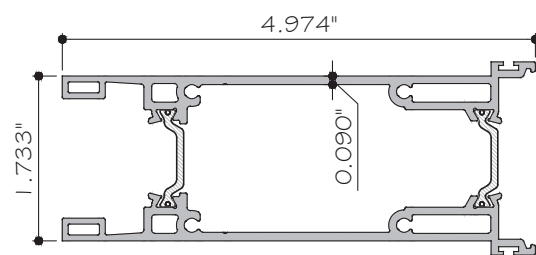
31 COVER POCKET 3 TRACK
ES-SGD2020T-042 6063-T6



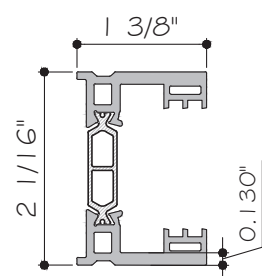
32 COVER POCKET 4 TRACK
ES-SGD2020T-043 6063-T6



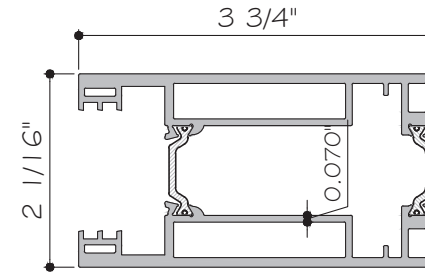
33 TOP RAIL
ES-SGD2020T-521 6063-T6



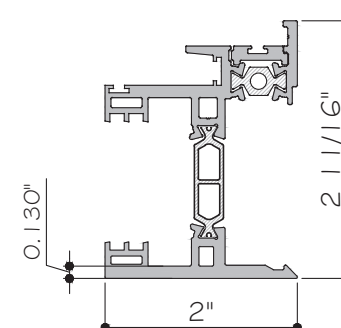
34 BOTTOM RAIL
ES-SGD2020T-522 6063-T6



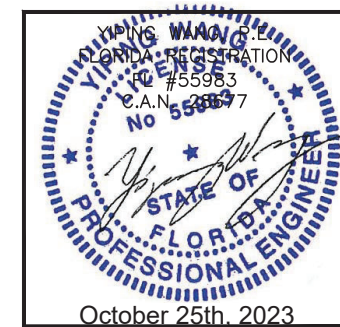
35 FIXED STILE PANEL
ES-SGD2020T-523 6063-T6



36 SLIDING STILE PANEL
ES-SGD2020T-524 6063-T6



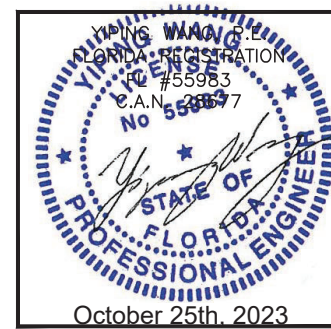
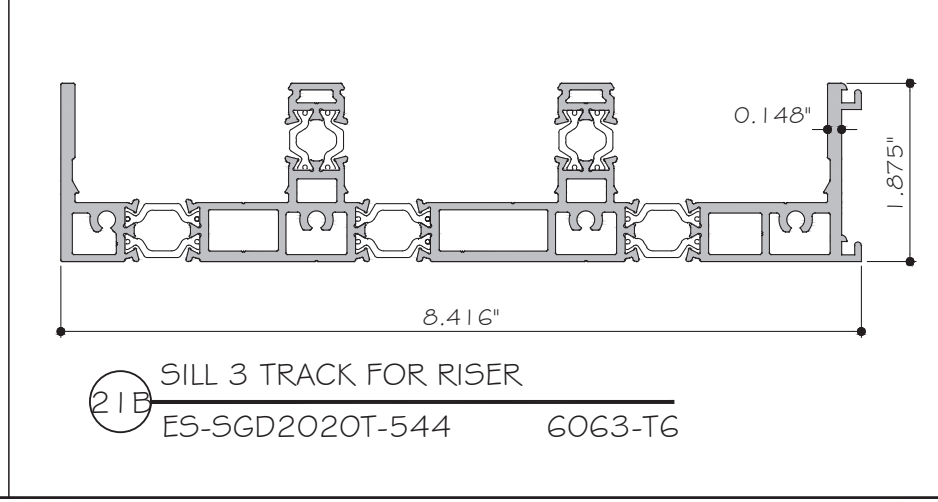
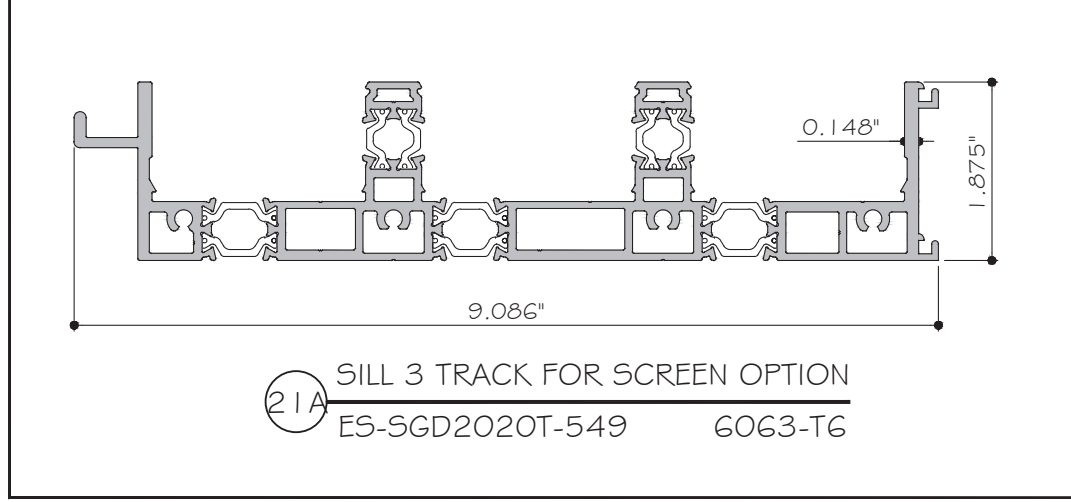
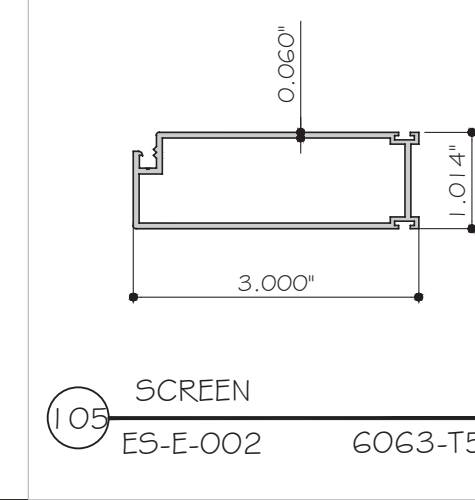
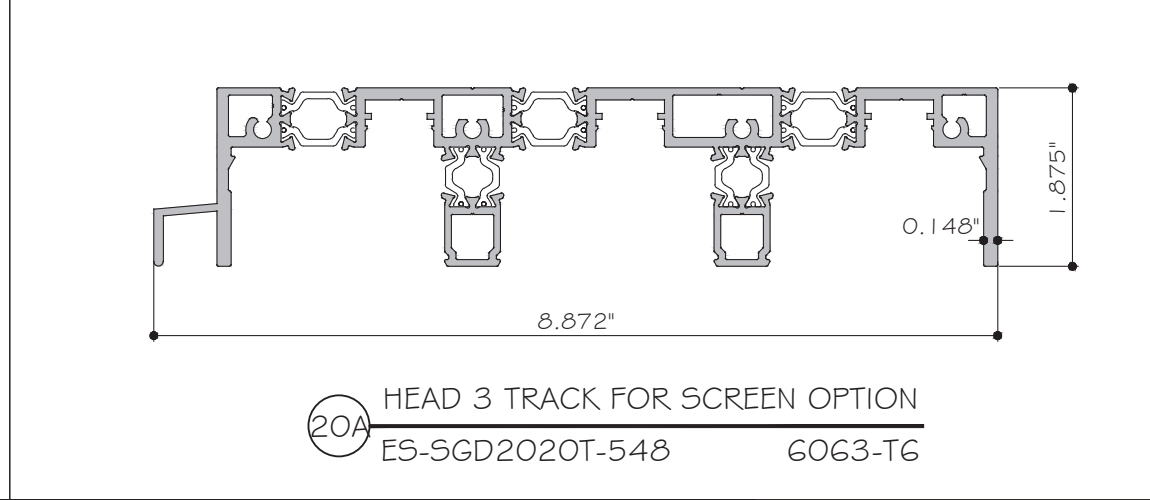
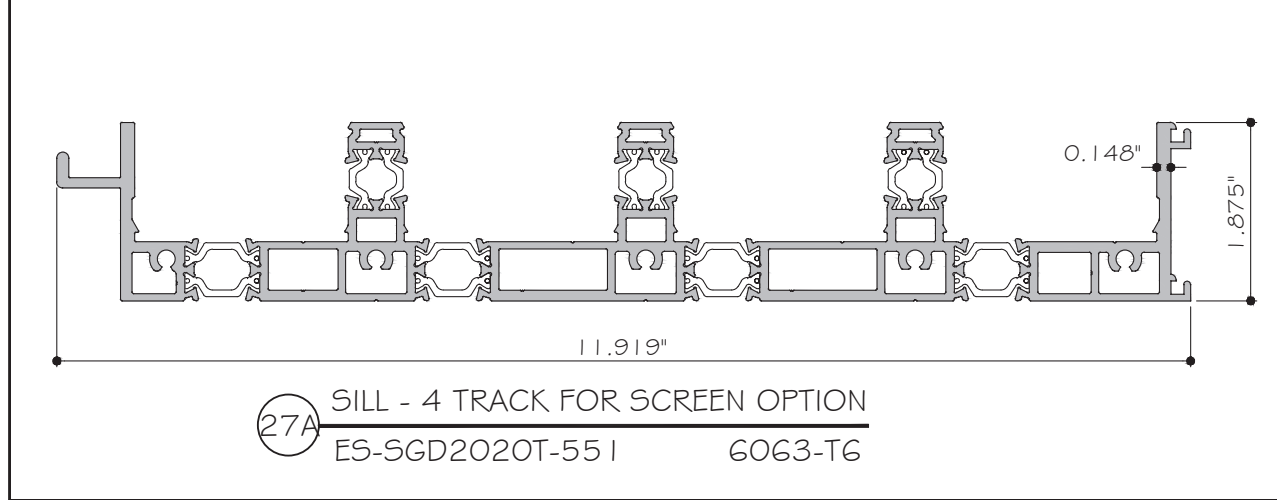
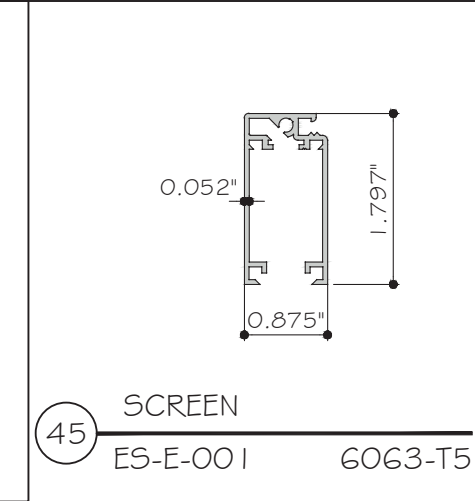
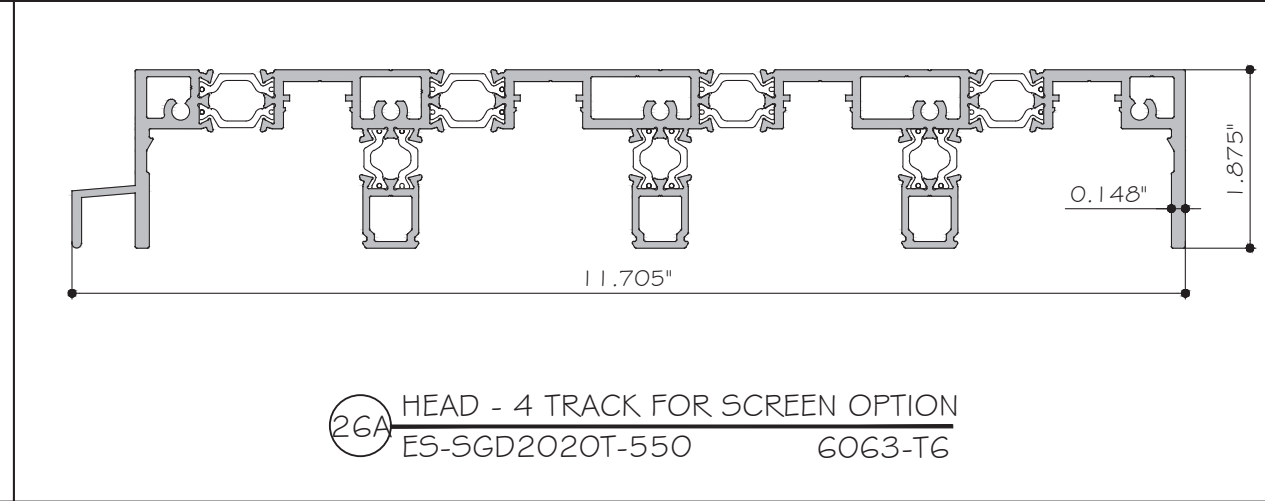
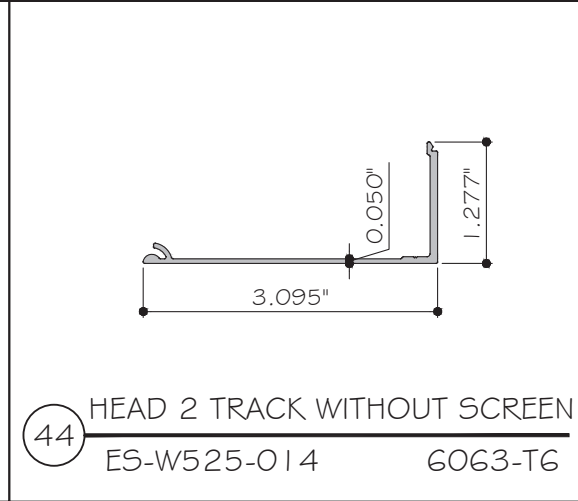
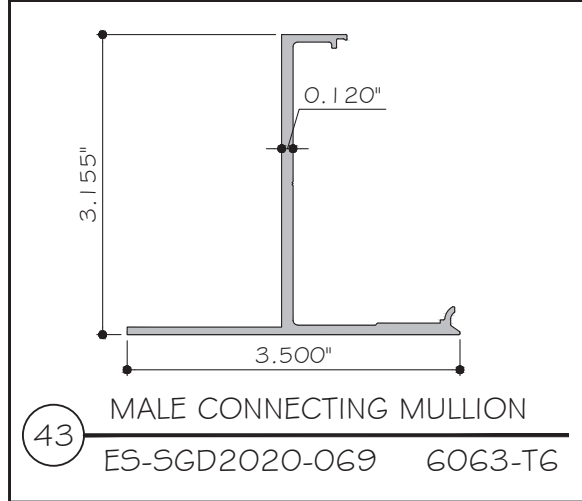
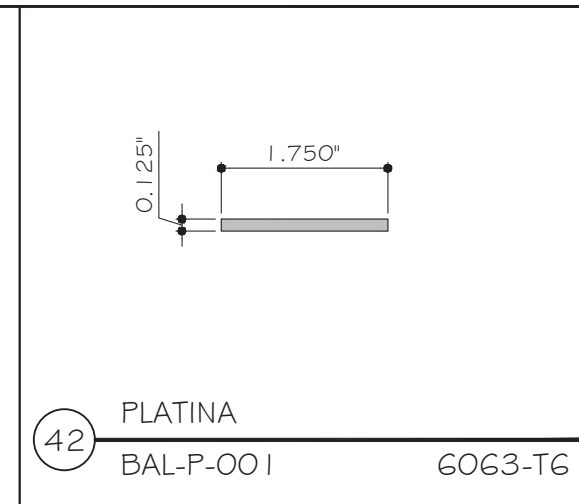
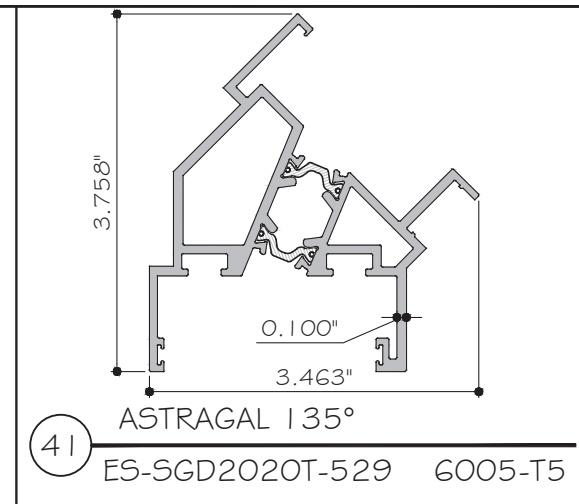
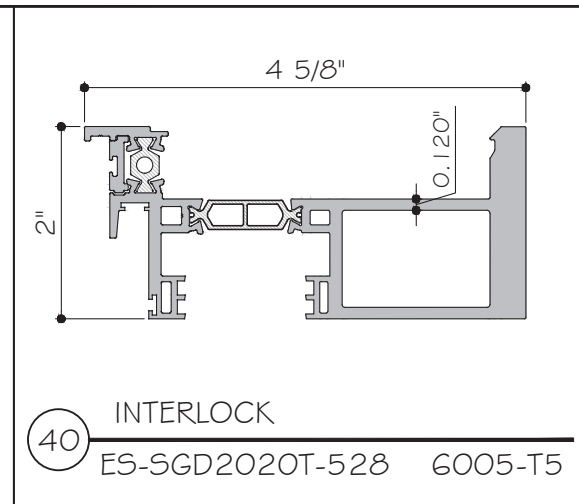
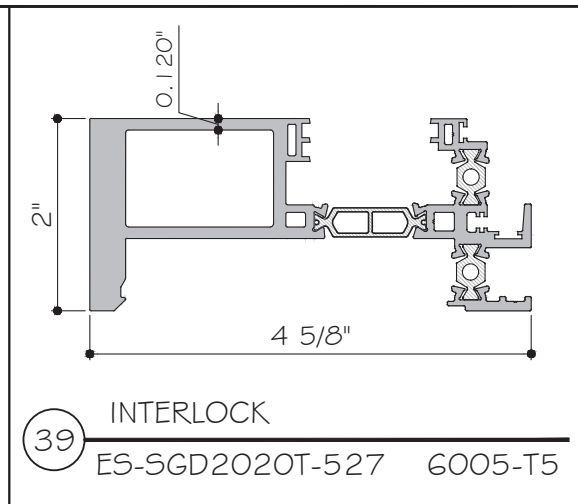
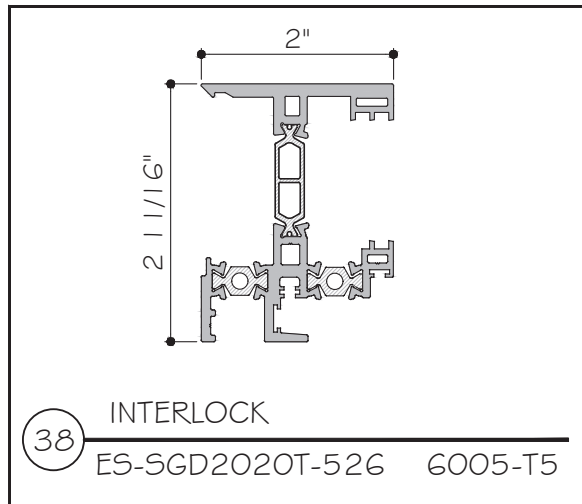
37 INTERLOCK
ES-SGD2020T-525 6005-T5



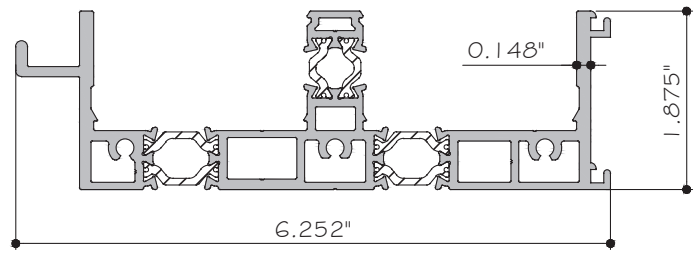
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020T SLIDING GLASS DOOR (N.I.)
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

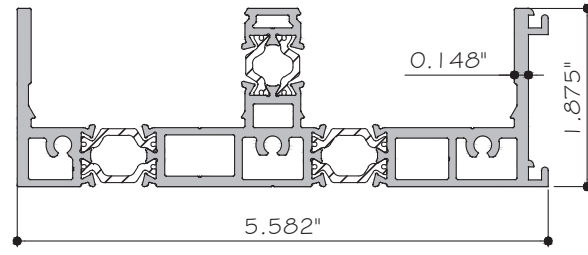
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FEB 2023
Drawn Date	09.15.2023	Scale	
DRAWING NO. AD21-57			
PARTS			
Sheet No. 31 OF 35			



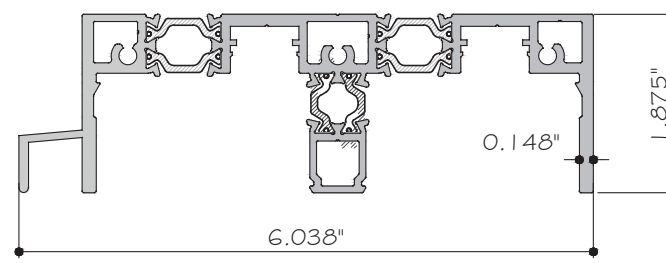
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FCC 2023
Drawn Date	09.15.2023	Scale	
DRAWING NO. AD21-57			
PARTS			
Sheet No. 32 OF 35			



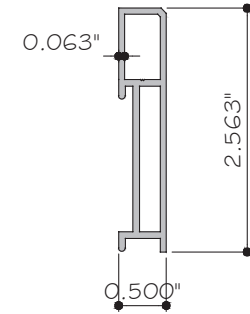
2A SILL (2 TRACK) FOR SCREEN OPTION
ES-SGD2020T-547 6063-T6



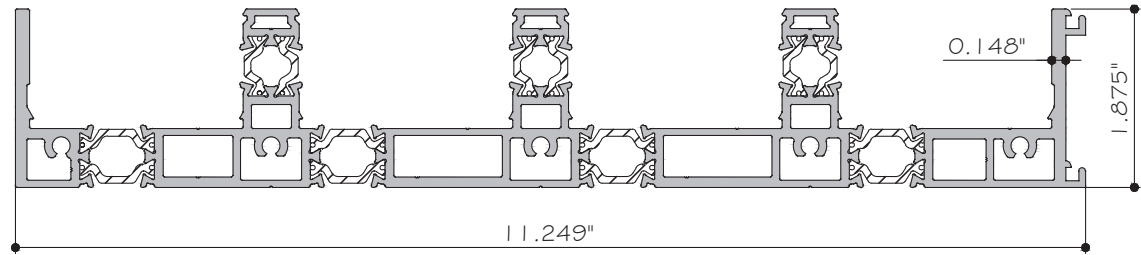
2B SILL (2 TRACK) FOR RISER
ES-SGD2020T-543 6063-T6



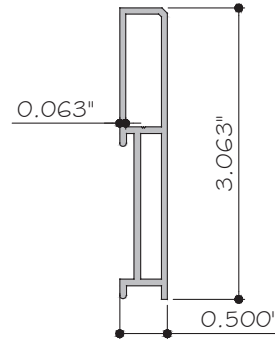
1A HEAD (2 TRACK) FOR SCREEN OPTION
ES-SGD2020T-546 6063-T6



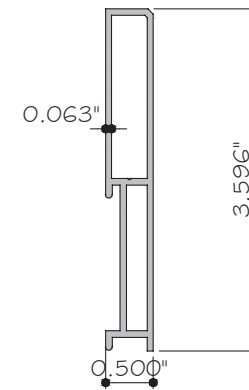
47 STANDARD SILL RISER
ES-SGD2020-008 6063-T6



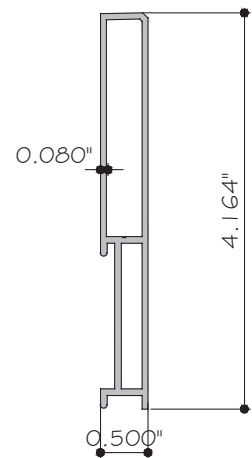
27B SILL - 4 TRACK FOR RISER
ES-SGD2020T-545 6063-T6



48 STANDARD SILL RISER
ES-SGD2020-007 6063-T6



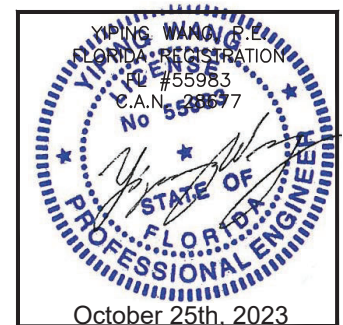
49 STANDARD SILL RISER
ES-SGD2020-041 6063-T6



50 STANDARD SILL RISER
ES-SGD2020-040 6063-T6

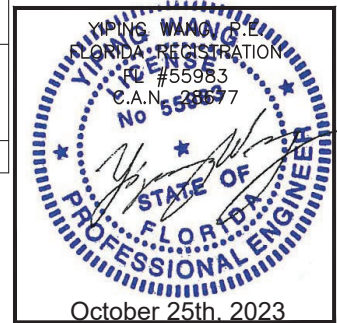
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

Drawn Date	Scale
09.15.2023	
DRAWING NO.	
AD21-57	
PARTS	
Sheet No.	
33 OF 35	



BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
1	E5-SGD2020T-501	HEAD (2 TRACK)	6063-T6
1A	E5-SGD2020T-546	HEAD (2 TRACK) FOR SCREEN OPTION	6063-T6
2	E5-SGD2020T-502	SILL (2 TRACK)	6063-T6
2A	E5-SGD2020T-547	SILL (2 TRACK) FOR SCREEN OPTION	6063-T6
2B	E5-SGD2020T-543	SILL (2 TRACK) FOR RISER	6063-T6
3	E5-SGD2020T-503	JAMB (2 TRACK)	6063-T6
4	E5-SGD2020T-005	HEAD COVER	6063-T5
5	E5-SGD2020T-009	SILL COVER	6063-T5
6	E5-SGD2020T-504	TRACK	6005-T6
7	E5-SGD2020T-016	JAMB COVER	6063-T5
14	E5-SGD2020T-027	COVER INTERLOCK	6063-T5
16	E5-SGD2020T-029	COVER INTERLOCK	6063-T5
18	E5-SGD2020T-513	ASTRAGAL	6005-T5
19	E5-SGD2020T-514	CORNER 90°	6005-T5
20	E5-SGD2020T-515	HEAD 3 TRACK	6063-T6
20A	E5-SGD2020T-548	HEAD 3 TRACK FOR SCREEN OPTION	6063-T6
21	E5-SGD2020T-516	SILL 3 TRACK	6063-T6
21A	E5-SGD2020T-549	SILL 3 TRACK FOR SCREEN OPTION	6063-T6
21B	E5-SGD2020T-544	SILL 3 TRACK FOR RISER	6063-T6
22	E5-6011	COVER	6063-T5
23	E5-SGD2020T-037	SILL COVER MULTITRACK	6063-T5
24	E5-SGD2020T-517	JAMB 3 TRACK	6063-T6
25	E5-SGD2020T-039	JAMB COVER MULTITRACK	6063-T5
26	E5-SGD2020T-518	HEAD - 4 TRACK	6063-T6
26A	E5-SGD2020T-550	HEAD - 4 TRACK FOR SCREEN OPTION	6063-T6
27	E5-SGD2020T-519	SILL - 4 TRACK	6063-T6
27A	E5-SGD2020T-551	SILL FOUR TRACK FOR SCREEN OPTION	6063-T6
27B	E5-SGD2020T-545	SILL FOUR TRACK FOR RISER	6063-T6
28	E5-SGD2020T-520	JAMB 4 TRACK	6063-T6
29	E5-SGD2020T-063	INTERLOCK POCKET	6005-T5
30	E5-SGD2020T-041	COVER POCKET 2 TRACK	6063-T6
31	E5-SGD2020T-042	COVER POCKET 3 TRACK	6063-T6
32	E5-SGD2020T-043	COVER POCKET 4 TRACK	6063-T6
33	E5-SGD2020T-521	TOP RAIL	6063-T6
34	E5-SGD2020T-522	BOTTOM RAIL	6063-T6
35	E5-SGD2020T-523	FIXED STILE PANEL	6063-T6
36	E5-SGD2020T-524	SLIDING STILE PANEL	6063-T6
37	E5-SGD2020T-525	INTERLOCK	6005-T5
38	E5-SGD2020T-526	INTERLOCK	6005-T5
39	E5-SGD2020T-527	INTERLOCK	6005-T5
40	E5-SGD2020T-528	INTERLOCK	6005-T5
41	E5-SGD2020T-529	ASTRAGAL 135°	6005-T5
42	BAL-P-001	PLATINA	6063-T6
43	E5-SGD2020-069	MALE CONNECTING MULLION	6063-T6
44	E5-W525-014	HEAD 2 TRACK WITHOUT SCREEN	6063-T6
45	E5-S-001	SCREEN	6063-T6
46	E5-SD2020T-G02 S	GLAZING WET GASKET @ 1 1/8" GLASS THK	SILICONE 70 SHORE A
47	E5-SGD2020-008	STANDARD SILL RISER	6063-T6
48	E5-SGD2020-007	STANDARD SILL RISER	6063-T6
49	E5-SGD2020-041	STANDARD SILL RISER	6063-T6
50	E5-SGD2020-040	STANDARD SILL RISER	6063-T6
51	E5-SD2020T-G07 S	SEAL GASKET @ ASTRAGAL	SILICONE 60 SHORE A
52	E5-SGD2020-B03 E	WEEP HOLE PLUG	SILICONE 70 SHORE A
53	E5-G500-G02 E	SEAL GASKET @ INTERLOCK	SILICONE 70 SHORE A
54	E5-9550-B01A S	SIDE BLOCK @ WET GLAZED SYSTEM	SILICONE 90 SHORE A
55	E5-SD2020T-P01 P	PANEL SUPPORT @ FIXED BOTTOM RAIL	EPDM
56	NOT USED		
57	PENDING	WEEP INTERLOCK	PENDING
58	WEEP FOAM	WEEP OPEN CELL FOAM 3/8" x 5/8" x 3/4"	OPEN CELL FOAM 30 PPI @ WA2L WEEP COVER
59	E5-SD2020-FO1	WEEP OPEN CELL FOAM @ E5-SD2020-C02	OPEN CELL FOAM 30 PPI @ WA2L WEEP COVER

BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
60	W23221NG	WEATHERSTRIPPING FILE	POLYETHYLENE
61	W23241NG	WEATHERSTRIPPING FILE	POLYETHYLENE
62	W23321NG	WEATHERSTRIPPING FILE	POLYETHYLENE
63	187N850-120KL	ULTRA TECT PILE BLACK @ POCKET DOOR	POLYETHYLENE
64	E5-SD2020T-FE01	ADHESIVE WEATHERSTRIPPING	POLYETHYLENE
65	E5-SD2020T-FE02	ADHESIVE WEATHERSTRIPPING	POLYETHYLENE
66	E5-SD2020-C02	WEEP COVER BLACK	POLYETHYLENE
67	WA2L-BLK WA2L-SLV WA2L-WHT WA2L-BZE	WEEP COVER BLACK, SILVER, WHITE OR BRONZE	POLYPROPYLENE
68	GTT-15006-HKA-01-TE	TANDEM ROLLER	ZAMAK # ACETAL
69	2-500-180-P BLACK 2-500-100-P WHITE 2-500-171-P GREY	HOLE COVER 1/2"	POLYETHYLENE
70	BASE # SNAP-FIT	BUMPER BASE # SNAP-FIT CAP BLACK,WHIT # GREY	NYLON 6
71	PS01-0035-00B	2 POINT MORTISE LOCK	ZINC DIE CAST
72	PS01-0060-00B	2 POINT LOCK STRIKER 1.03" TO 1.15" @ ASTRAGAL	STAINLESS STEEL
73	PS01-1005-00B	2 POINT LOCK STRIKER 1.35" TO 1.45" @ FRAME JAMB	STAINLESS STEEL
74	PS01-0205-000 WHT PS01-0205-115 BRZ PS01-0205-117 SILV PS01-0205-00B BLK	CREST TURN LEVER	ZAMAK
75	PS01-0208-000 WHT PS01-0208-115 BRZ PS01-0208-117 SILV PS01-0208-00B BLK	CREST HANDLE INT-EXT	ZAMAK
76	PS01-0206-000 WHT PS01-0206-115 BRZ PS01-0206-117 SILV PS01-0206-00B BLK	INTERIOR CREST HANDLE	ZAMAK
77	PS01-3124-000 WHT PS01-3124-115 BRZ PS01-3124-117 SILV PS01-3124-00B BLK	EXTERIOR LOCKING CREST SLIDE HANDLE	ZAMAK
78	10x1 1/4 Phil Pan Type A 18-8ss	PANEL ASSEMBLY SCREW	STAINLESS STEEL
79	10x1 HWH SELF DRILLER 18-855	ASSEMBLY SCREW @STEEL REINFORCEMENT PLATE	STAINLESS STEEL
80	10x3/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ BASE # SNAP FIT BUMPER	STAINLESS STEEL
81	10x1/2 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ INTERLOCK POKET ADAPTOR	STAINLESS STEEL
82	8x1 1/2 Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ PANEL WITH ASTRAGAL	STAINLESS STEEL
83	8x1-1/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ ASTRAGAL STRIKER	STAINLESS STEEL
84	8x3/4 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ ASTRAGAL # CORNER STRIKER	STAINLESS STEEL
85	8x1/2 Phil Pan Type A 18-8ss	ASSEMBLY SCREW @ JAMB STRIKER	STAINLESS STEEL
86	6x1/2 Phil Flat Type A 18-8ss	ASSEMBLY SCREW @ FIXED PANEL SUPPORT	STAINLESS STEEL
87	Tornillo #12 x 1-1/2" P.H. P8-7	ASSEMBLY SCREW @ FRAME	STAINLESS STEEL
88	Tornillo #8 x 1-1/2" P.H. P8-7	ASSEMBLY SCREW @ PANEL	STAINLESS STEEL
89	Tornillo #10 x 3/4" F.H. P8-7	ASSEMBLY SCREW @ PLATE	STAINLESS STEEL
90	PS01-3002-000 WHT PS01-3002-115 BRZ PS01-3002-117 SILV PS01-3002-00B BLK	EXTERIOR FLUSH HANDLE	ZAMAK
91	PS01-0312-000 WHT PS01-0312-115 BRZ PS01-0312-117 SILV PS01-0312-00B BLK	LOCKING INVISIO HANDLE	ZAMAK
92	PS01-0313-000 WHT PS01-0313-115 BRZ PS01-0313-117 SILV PS01-0313-00B BLK	NON LOCKING INVISIO HANDLE	ZAMAK
93	180259 180260	CYLINDER KEYED DIFFERENT KEYED ALIKE CYLINDER	BRASS



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 (N.I.)	
Rev. No.	Date
Drawn By	James
Scale	09.15.2023
DESCRIPTION	UPDATE TO FEB 2023
DRAWING NO.	AD21-57
SHEET NO.	BOM
SHEET NO.	34 OF 35

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL
94	M5 X 0.8 RN58033*LR	RIVET NUT	STAINLESS STEEL
95	ES-SD2020T-C01	ASTRAGAL NOTCH COVER (NEW)	POLYPROPYLENE
96	ES-SD2020T-C02	INTERLOCK NOTCH COVER (NEW)	POLYPROPYLENE
97	SGD 1600	BUMPER @ POCKET DOOR	ZAMAK
98	ES-SD2020T-FE03	ADHESIVE WEATHER STRIPPING @INTERLOCK	-
99	REINFORCEMENT	STEEL PLATE 1/2" x 3" x LENGTH	GALVANIZED STAINLESS STEEL
100	PS01-5014	M4x50 CSK SS PHILIPS @EXTERIOR PULL HANDLE	STAINLESS STEEL
101	REINFORCEMENT	STEEL PLATE 1/2" x 1 1/2" x LENGTH	GALVANIZED STAINLESS STEEL
102	ASTRAGAL REINFORCEMENT	STEEL REINFORCEMENT 1 1/2" X 1 1/2" X 0.1875	GALVANIZED STAINLESS STEEL
103	ASTRAGAL CORNER REINFORCEMENT (90°)	STEEL PLATE 1/4" x 1 1/2" x LENGTH	GALVANIZED STAINLESS STEEL
104	ASTRAGAL CORNER REINFORCEMENT (90°)	STEEL PLATE 1/4" x 1 1/4" x LENGTH	GALVANIZED STAINLESS STEEL
105	ES-5-002	SCREEN	6063-T5
106	ES-004	BALANCE GUIDE	NYLON
107	Q26647DK	ULTRAFAB	POLYPROPYLENE

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 (N.I.)

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

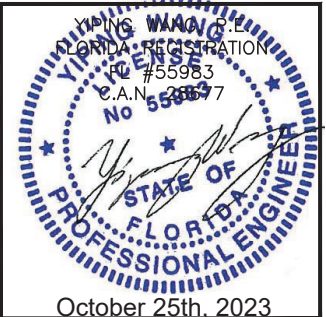
Rev. No.	Date	Drawn By	Description
R2	09.15.2023	James	UPDATE TO FBC 2023

Drawn Date: 09.15.2023 Scale:

DRAWING NO. **AD21-57**

BOM

Sheet No. **35 OF 35**



October 25th, 2023