

DOOR DESIGN LOAD CAPACITY – PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'Ai'	
		EXT.(+)	INT.(–)
36	84	120.0	140.0
42		120.0	140.0
48		120.0	140.0
54		120.0	140.0
60		116.1	140.0
66		111.8	140.0
68		110.6	139.8
36	90	120.0	140.0
42		120.0	140.0
48		118.8	140.0
54		110.6	139.7
60		104.5	132.0
36	96	120.0	140.0
42		119.4	140.0
48		108.9	137.5
54		101.0	127.5
60		95.0	120.0

HEAD & SILL ANCHOR LOAD CAPACITY – PSF										
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	84	122.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		104.8	139.8	140.0	134.7	140.0	140.0	140.0	140.0	140.0
48		91.7	122.3	140.0	117.9	140.0	140.0	124.7	140.0	140.0
54		81.5	108.7	135.9	104.8	139.7	140.0	110.9	140.0	140.0
60		73.4	97.8	122.3	94.3	125.7	140.0	99.8	133.0	140.0
66		66.7	88.9	111.2	85.7	114.3	140.0	90.7	120.9	140.0
68		64.7	86.3	107.9	83.2	110.9	138.7	88.0	117.4	140.0
36	90	114.1	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42		97.8	130.4	140.0	125.7	140.0	140.0	133.0	140.0	140.0
48		85.6	114.1	140.0	110.0	140.0	140.0	116.4	140.0	140.0
54		76.1	101.5	126.8	97.8	130.4	140.0	103.5	138.0	140.0
60		68.5	91.3	114.1	88.0	117.3	140.0	93.1	124.2	140.0
36	96	107.0	140.0	140.0	137.5	140.0	140.0	140.0	140.0	140.0
42		91.7	122.3	140.0	117.9	140.0	140.0	124.7	140.0	140.0
48		80.3	107.0	133.8	103.1	137.5	140.0	109.1	140.0	140.0
54		71.3	95.1	118.9	91.7	122.2	140.0	97.0	129.3	140.0
60		64.2	85.6	107.0	82.5	110.0	137.5	87.3	116.4	140.0

SEE SHEET 9 FOR ANCHOR DESCRIPTION  
SEE SHEET 3 FOR JAMB ANCHOR CAPACITY

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.  
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS  
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.  
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES EC400 (S.M.I.)  
ALUMINUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHARTS SHOWN  
ON THIS SHEET, AND APPROVED CONFIGURATIONS ON SHEETS 6  
THRU 8.

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE  
DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT  
LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS  
AND INSTALLED PER MANUF’S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE  
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON–METALLIC AND NON–COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT  
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE  
REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION  
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY  
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR  
WATER INFILTRATION RESISTANCE ETC.  
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,  
AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON ‘ALLOWABLE STRESS DESIGN (ASD)’.

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.

AVERAGE PANEL WIDTH =  $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

ALL EXTERIOR(+) LOADS SHOWN IN CHARTS ABOVE ARE  
FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.

FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED  
LIMIT MAX. EXT.(+) LOADS TO 95.0 PSF FOR 3–7/16” SILL HEIGHTS  
LIMIT MAX. EXT.(+) LOADS TO 60.0 PSF FOR 2–7/16” SILL HEIGHTS  
SEE SHEETS 9, 11 & 13 FOR DETAILS

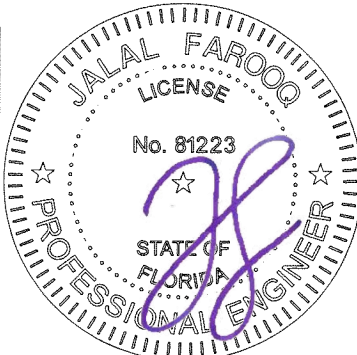
INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED  
ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE  
USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM CHART ABOVE  
FOR THE GLASS TYPES USED.
- STEP 3** USING ANCHOR CHARTS ABOVE SELECT ANCHOR  
QUANTITY WITH DESIGN RATING MORE THAN DESIGN LOAD  
SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3  
SHALL APPLY TO ENTIRE SYSTEM.

- A– 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.
- B– THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF  
ALTERED BY ANY MEANS.
- C– 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. ENGINEER OF RECORD, ACTING AS A DELEGATED  
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE  
SPECIFIC DRAWINGS FOR REVIEW.
- D– THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF  
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

Sealed: 2/28/2024 FL #43777



**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
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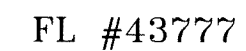
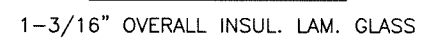
SERIES EC400 ALUM SLIDING GLASS DOOR (S.M.I.)

**Eurocraft Industries Inc.**  
7905 N.W. 77th Ave.  
Medley, FL. 33166  
Phone: (305) 713–1871 Fax: (305) 713–1872

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no. date by description  
1 02.16.24 A GENERAL REVISION

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chk. by:

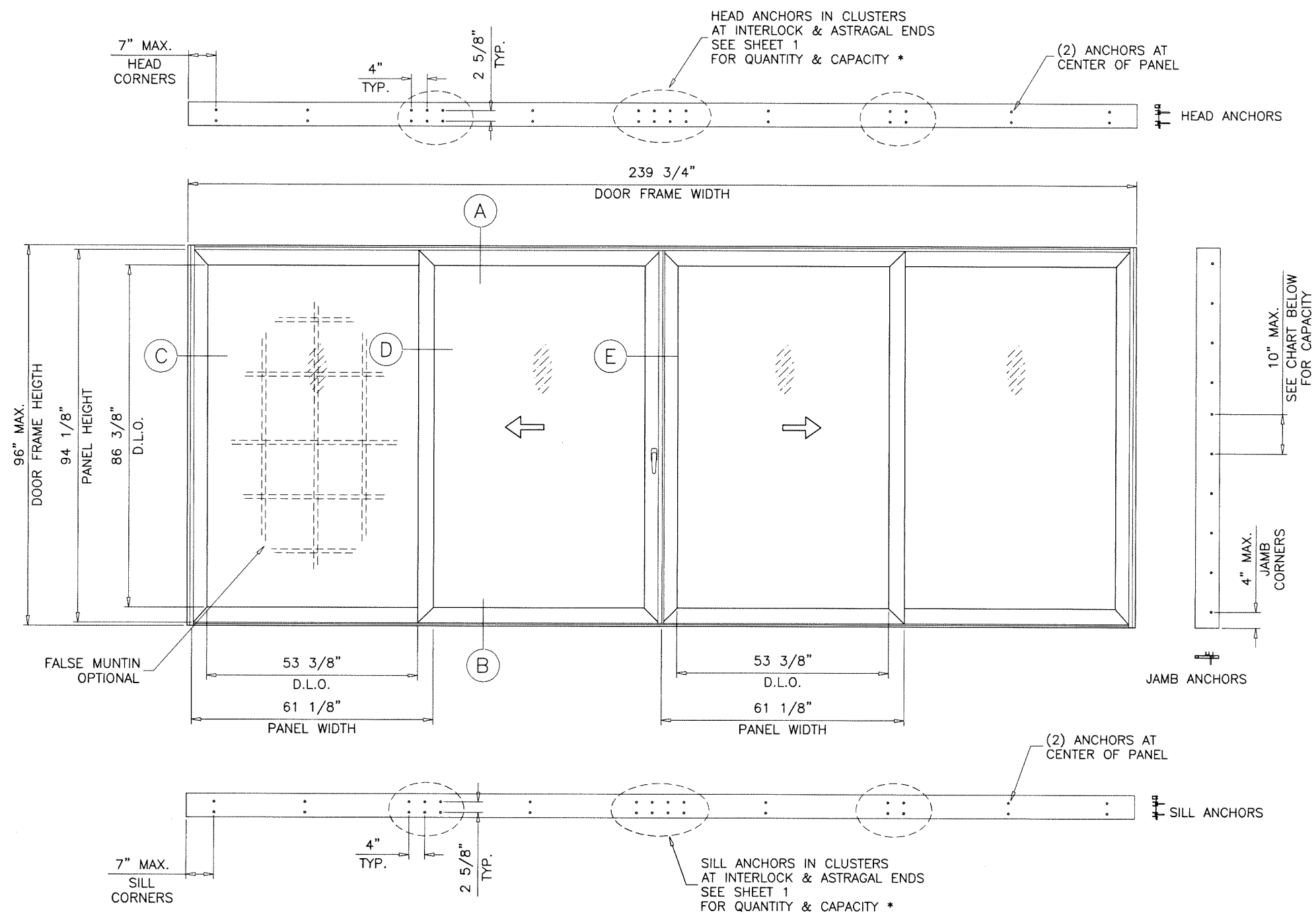
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sheet 1 of 18



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sheet 2 of 18



**TYPICAL ELEVATION**  
(2 TRACK)

\* NOTE:  
SHEAR CLIPS ITEM NUMBERS 30 & 31  
TO BE 14" LONG AT CLUSTERS AND  
4" LONG AT MID PANEL ANCHORS

AVERAGE PANEL WIDTH	JAMB ANCHOR LOAD CAPACITY-PSF	
	ANCHOR TYPE 'A'	ANCHOR 'B' & 'C'
36"	140.0	140.0
42"	140.0	
48"	128.4	
54"	114.1	
60"	102.7	
66"	93.4	
68"	90.6	

DAYLITE OPENINGS WIDTHS:  
PANEL WIDTH - 8.00"  
  
DAYLITE OPENING HEIGHT:  
PANEL HEIGHT - 7.750"  
  
PANEL HEIGHT = DOOR FRAME HEIGHT - 1.875"

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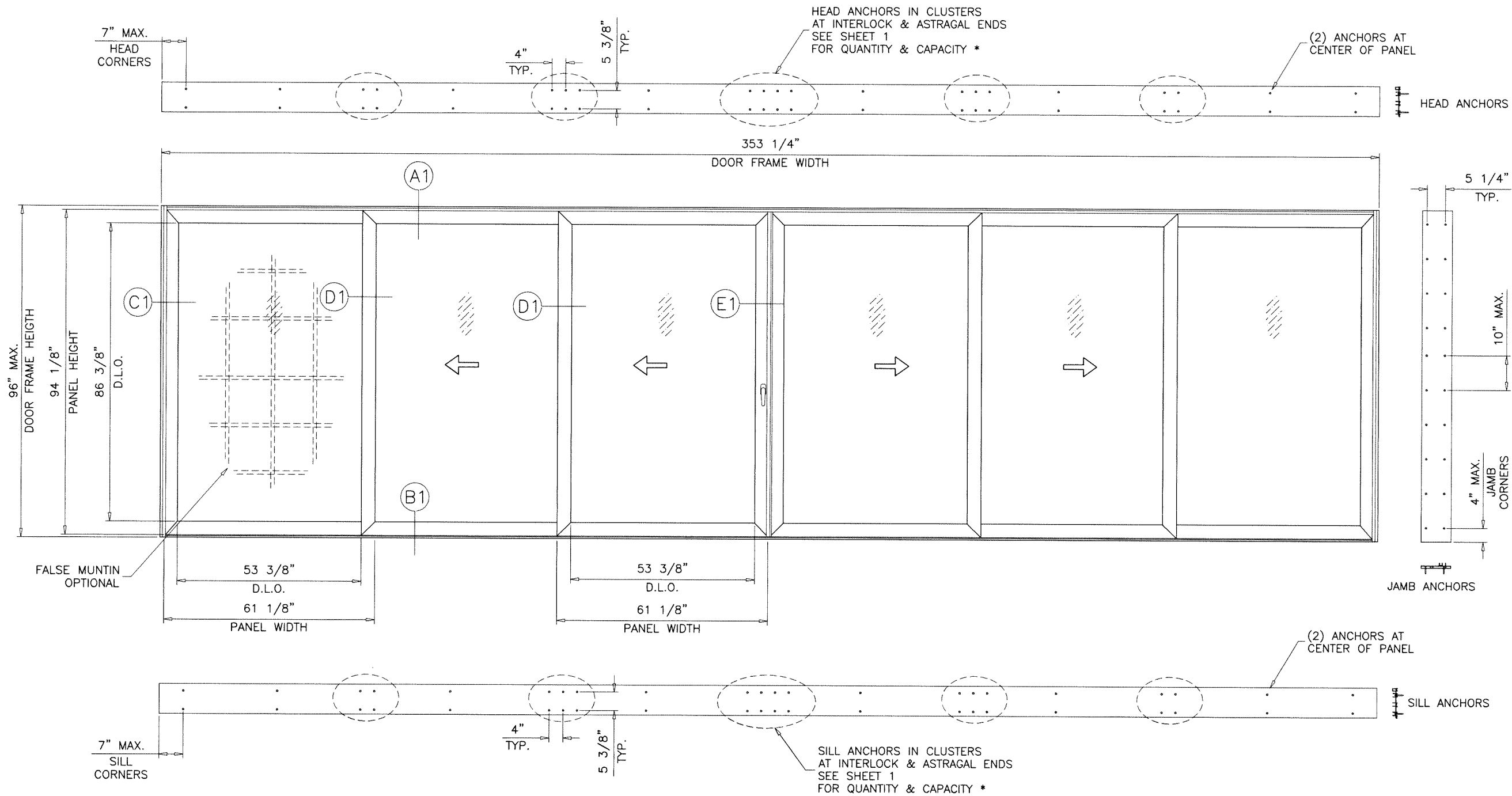
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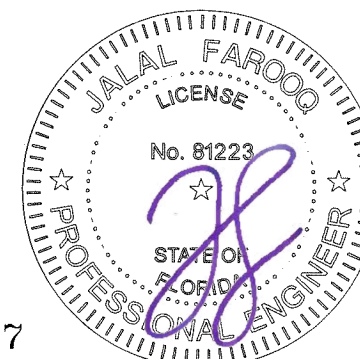
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**23-43F**  
sheet 3 of 18





**TYPICAL ELEVATION**  
(3 TRACK)

\* NOTE:  
SHEAR CLIPS ITEM NUMBERS 30 & 31  
TO BE 14\"/>



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**23-43F**

sheet 4 of 18

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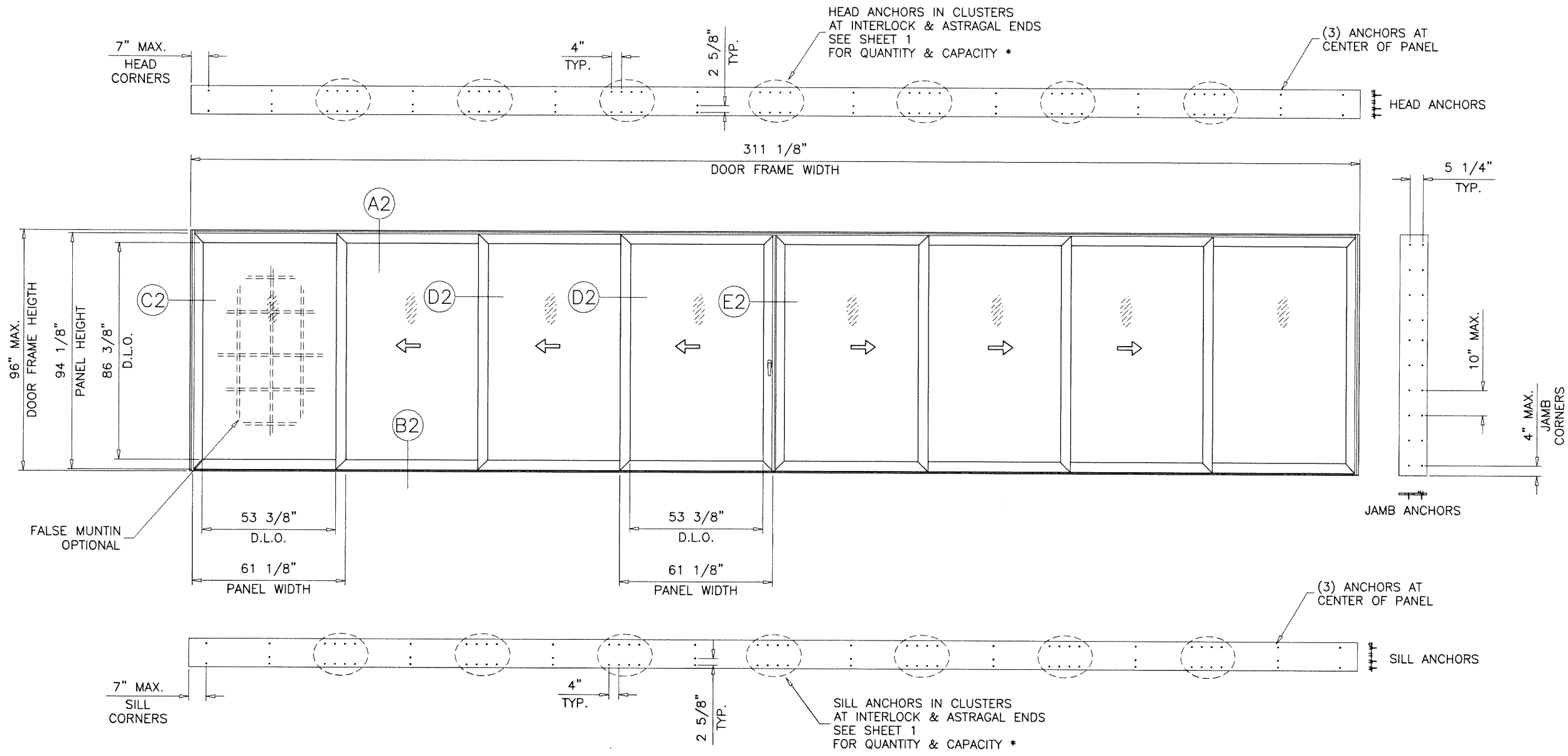
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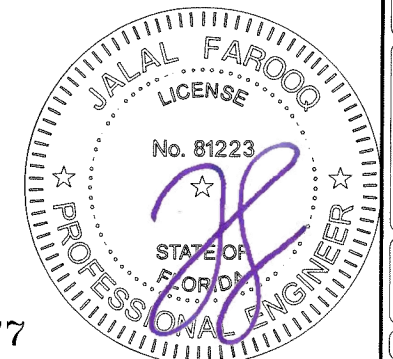
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**TYPICAL ELEVATION**  
(4 TRACK)

\* NOTE:  
SHEAR CLIPS ITEM NUMBERS 30 & 31  
TO BE 14\"/>



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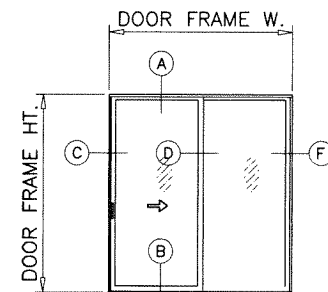
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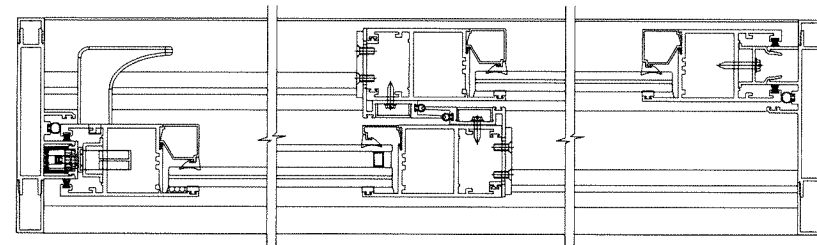
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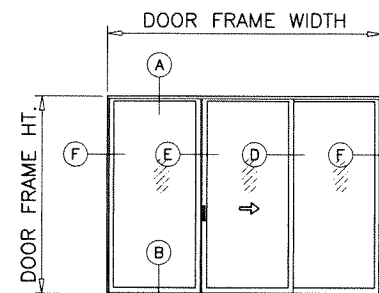


XO (SHOWN)  
OX  
XX

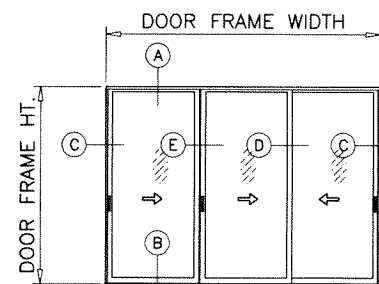
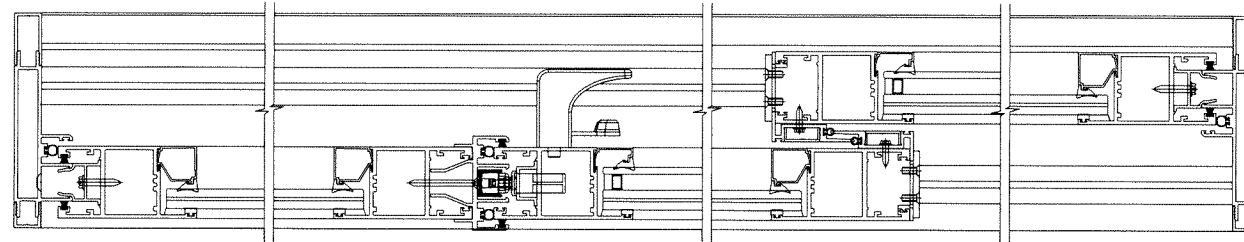


NOTE:  
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE  
SEE APPLICABLE DESIGN PRESSURE & SIZE IN SHEET 1  
AND ANCHOR INSTALLATION IN SHEETS 9 & 10.

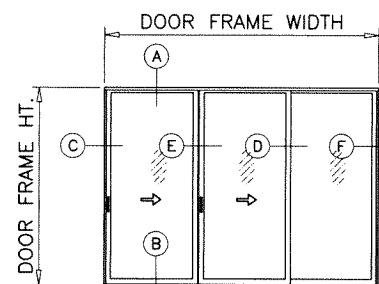
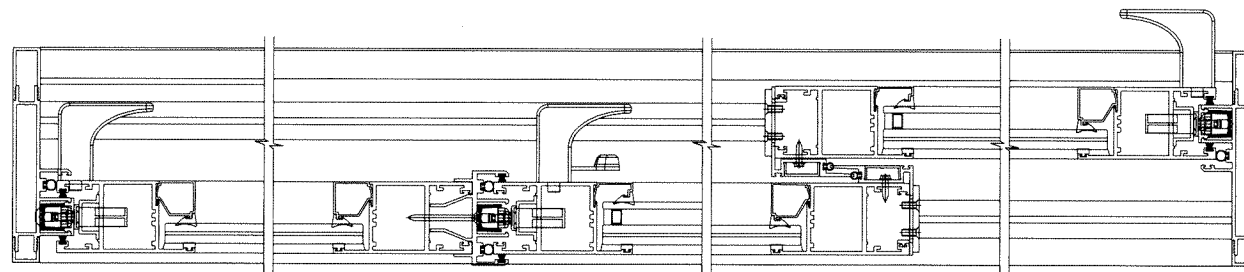
MAX. FRAME AREA OF TWO (2) TRACK S.G.D. SHALL NOT EXCEED 352 SQ. FT.  
DOOR PANEL AREA SHALL NOT EXCEED 40.0 SQ. FT.  
PER FBC REQUIREMENTS.



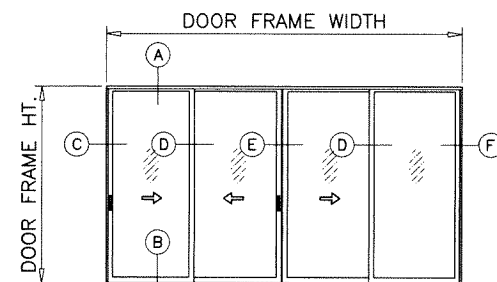
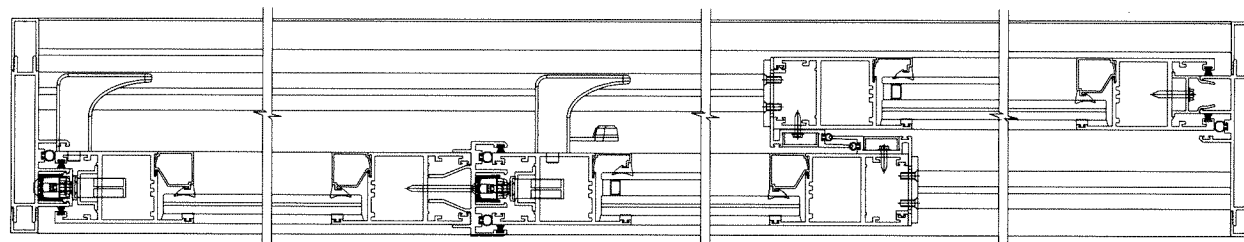
O-XO (SHOWN)



X-XX (SHOWN)

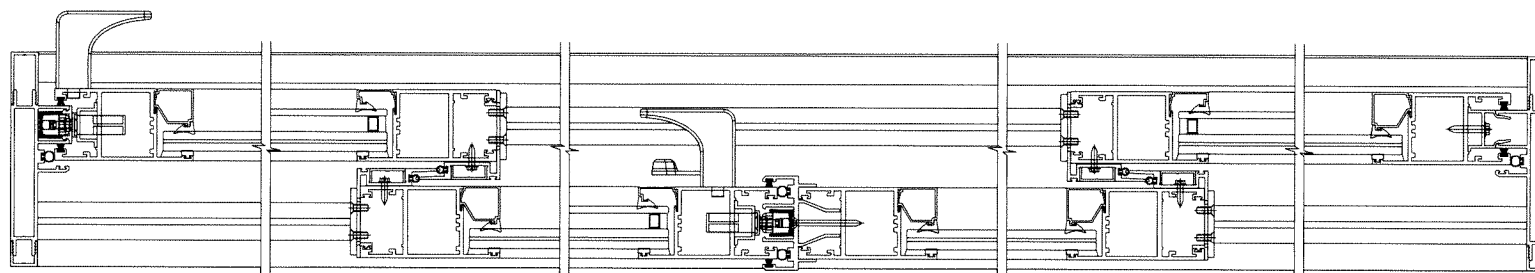


X-XO (SHOWN)  
OX-X



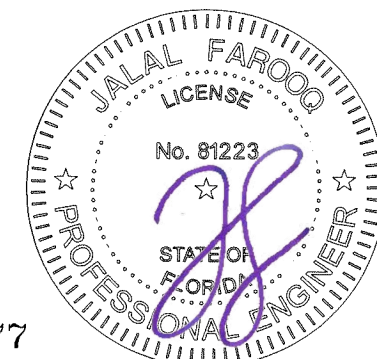
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XX-XX  
OX-XX

APPROVED CONFIGURATIONS  
TWO (2) TRACKS



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FL #43777



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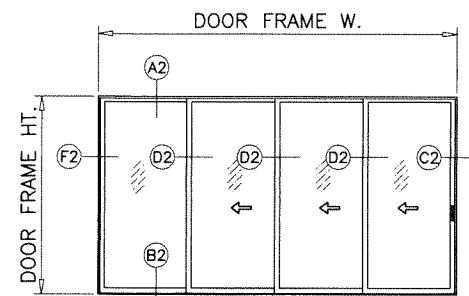
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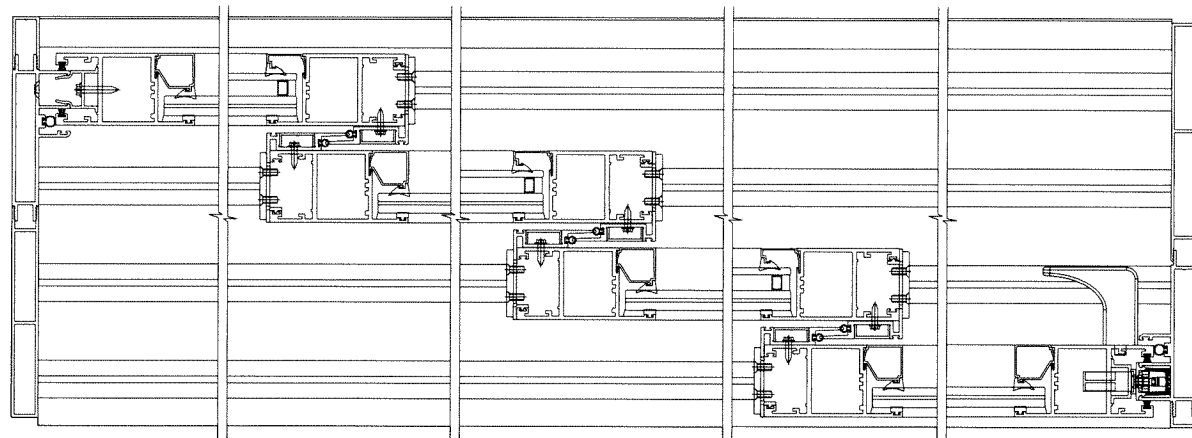
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sheet 6 of 18			





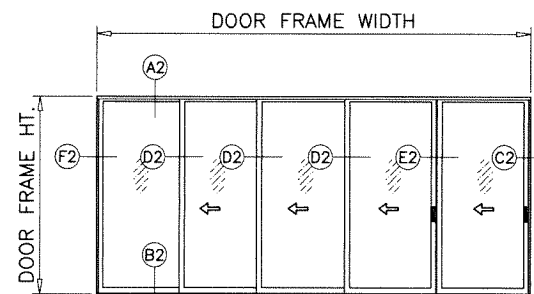


OXXX (SHOWN)  
XXXXO  
XXXX

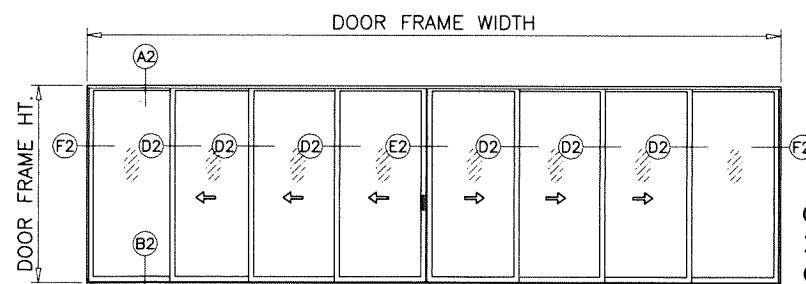
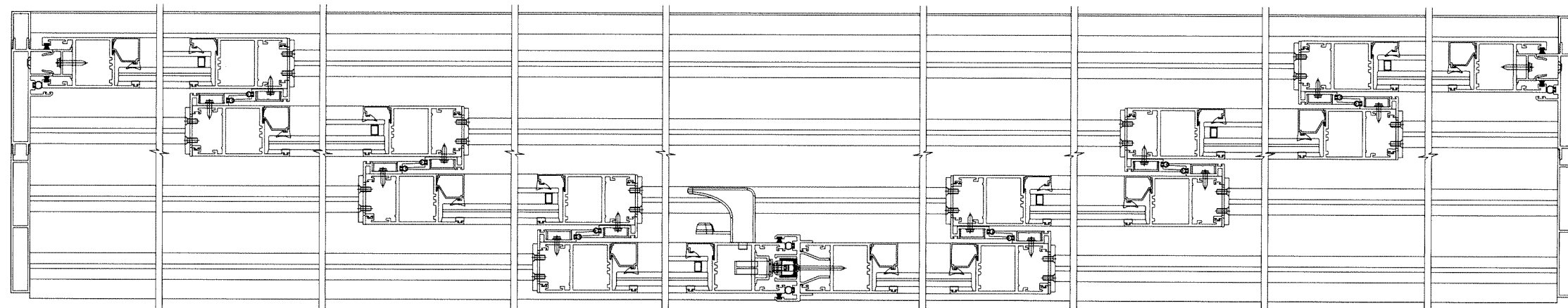
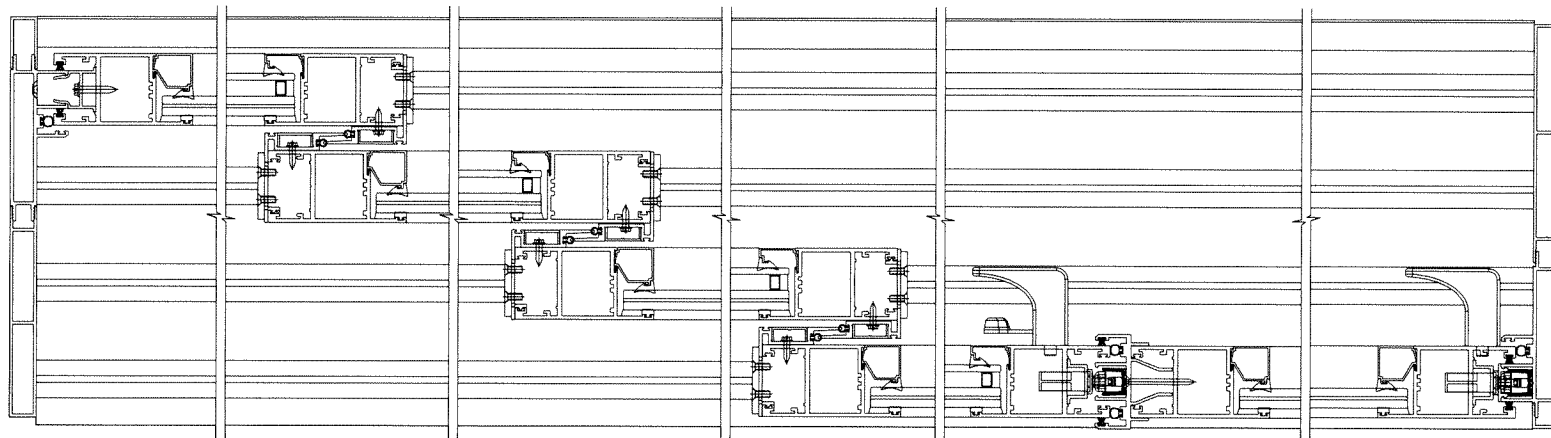


NOTE:  
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE  
SEE APPLICABLE DESIGN PRESSURE & SIZE IN SHEET 1  
AND ANCHOR INSTALLATION IN SHEETS 13 THRU 15.

MAX. FRAME AREA OF TWO (4) TRACK S.G.D. SHALL NOT  
EXCEED 352 SQ. FT.  
DOOR PANEL AREA SHALL NOT EXCEED 40.0 SQ. FT.  
PER FBC REQUIREMENTS.



OXXX-X (SHOWN)  
X-XXXXO  
XXXX-X  
X-XXXX

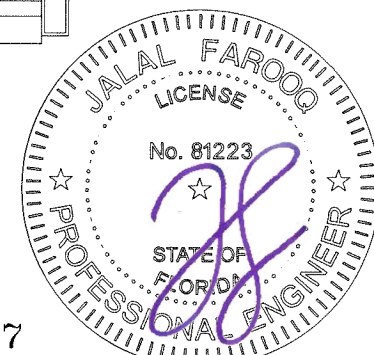


OXXX-XXXO (SHOWN)  
XXXX-XXXX  
OXXX-XXXX

APPROVED CONFIGURATIONS  
FOUR (4) TRACKS

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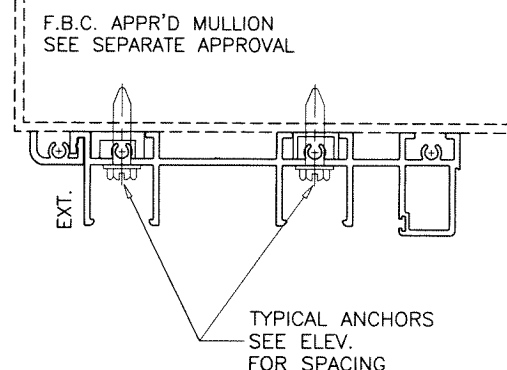
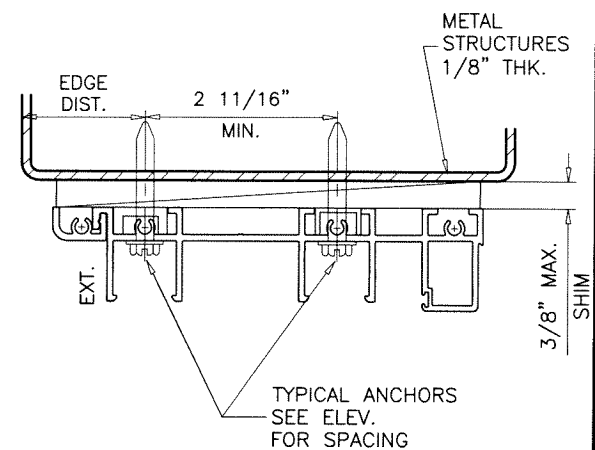
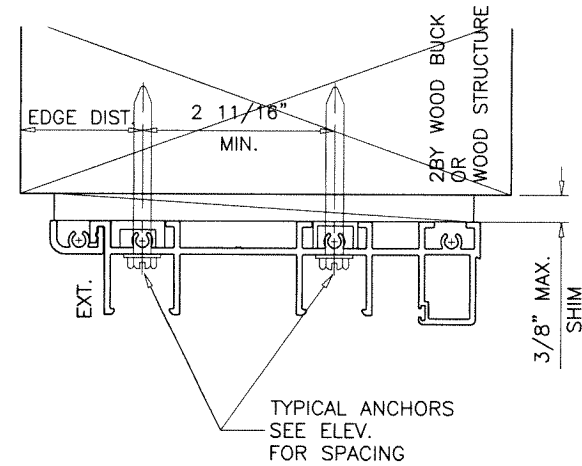
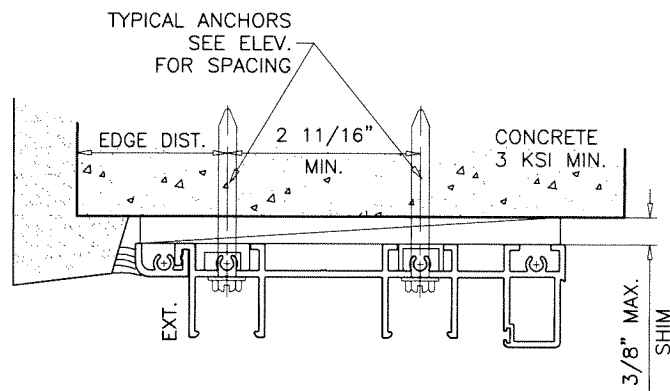
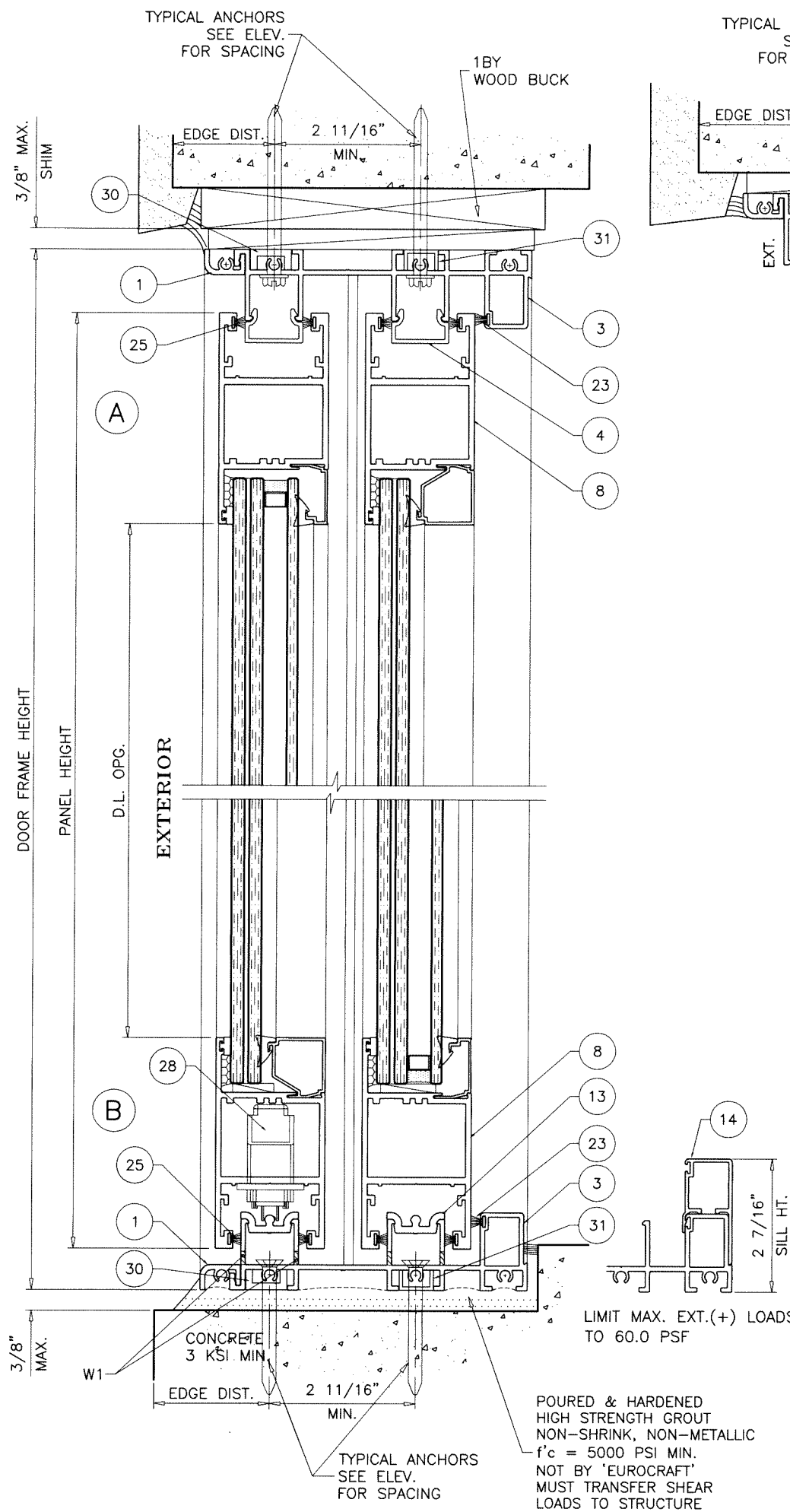


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sheet 8 of 18		23-43F	





1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'EUROCRRAFT' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**TYPE 'A' - 5/16" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)  
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**TYPE 'B' - 5/16" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONCRETE OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**TYPE 'C' - 5/16" DIA. TEKS OR SELF-DRILLING SCREWS** (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES (HEAD/JAMBS)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**CRITICAL EDGE DISTANCE**

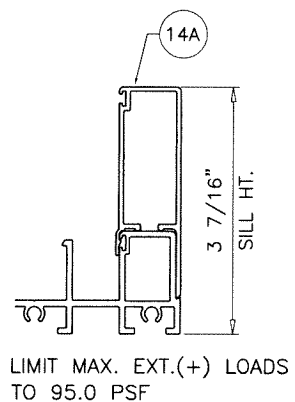
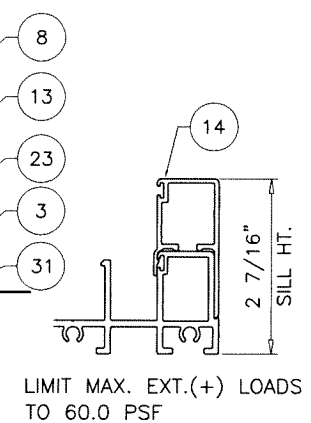
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1-1/4" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 GROUT-FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

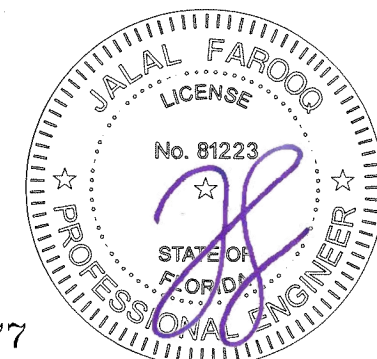
ANCHORS MAY BE HEX OR FLAT HEAD

**WEEPHOLES:**

W1 = 3/16" X 3" LONG WEEP HOLES AT 10" FROM EACH END.



**2 TRACK FRAMES**



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FL #43777

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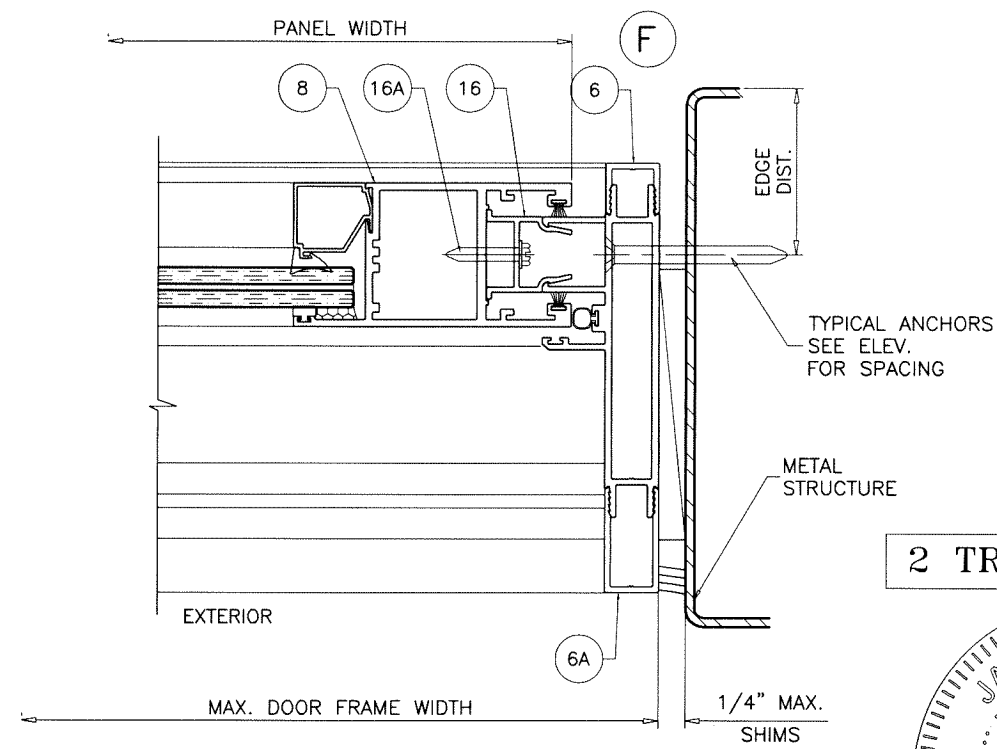
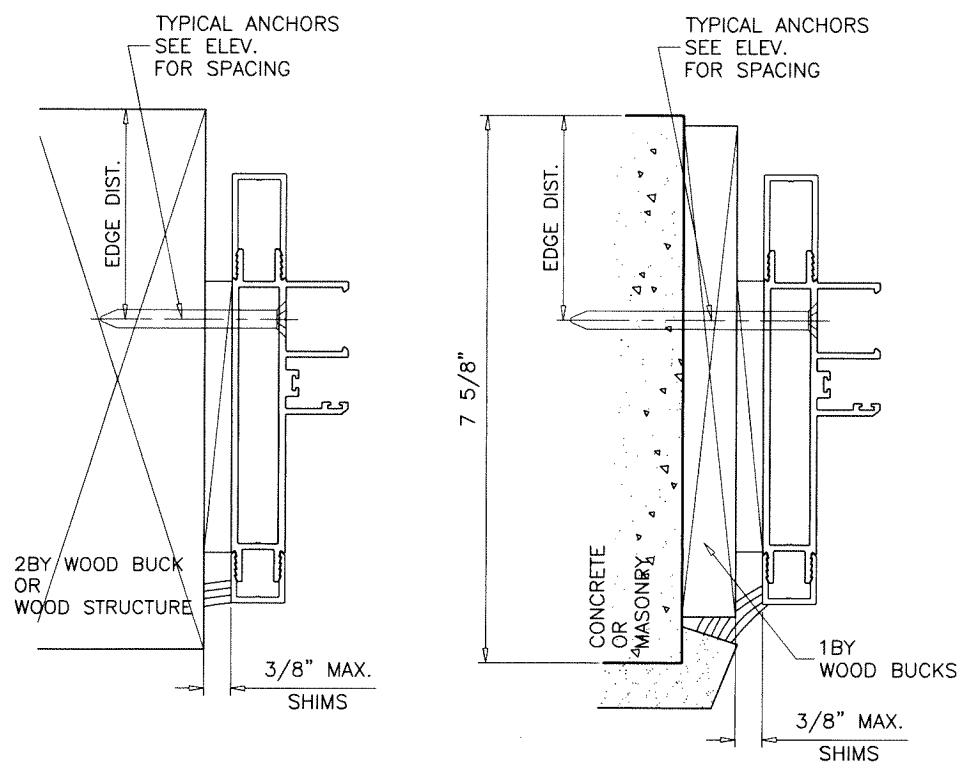
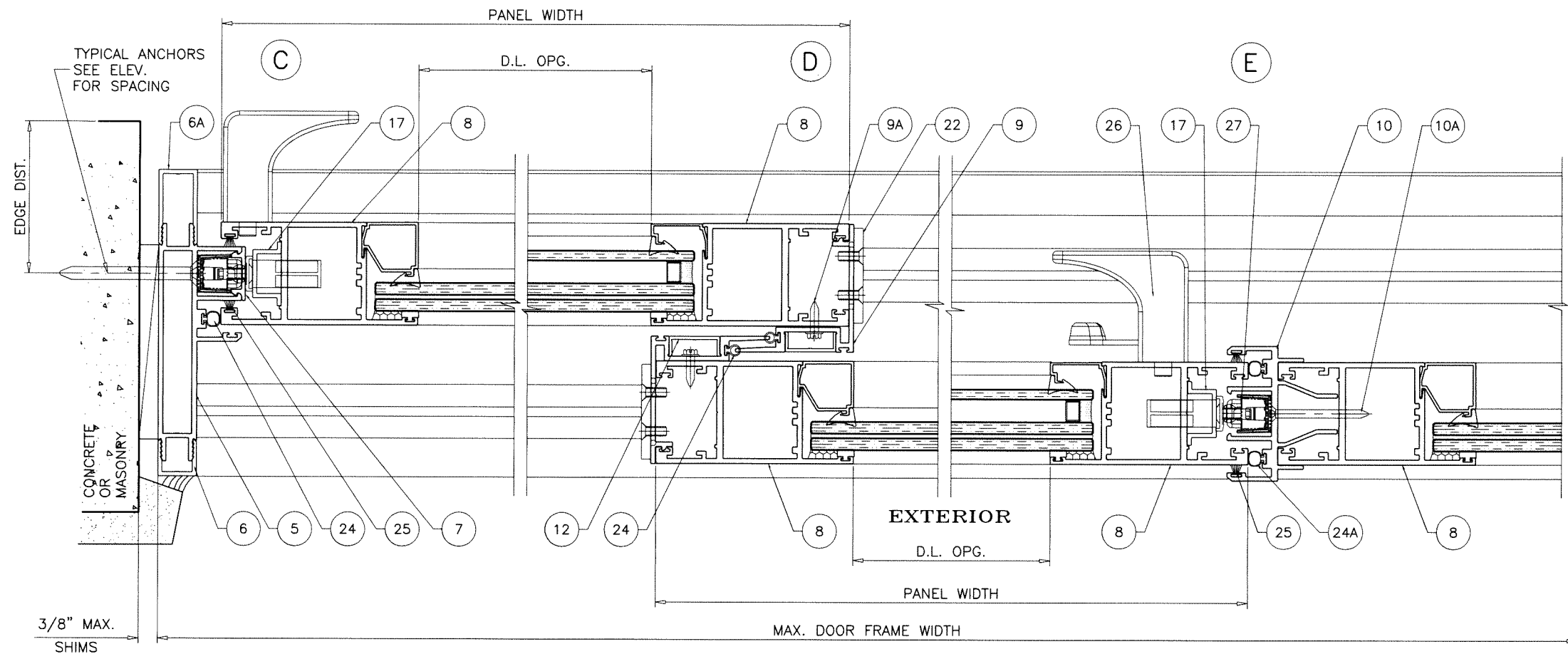
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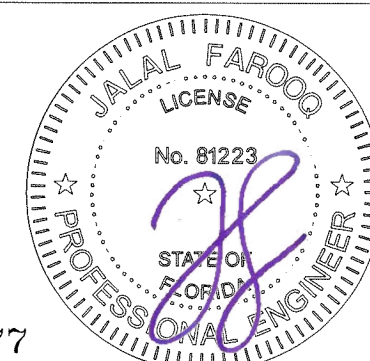
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 drawing no. **23-43F**  
 sheet 9 of 18

SERIES EC400 ALUM SLIDING GLASS DOOR (S.M.I.)

**Eurocraft Industries Inc.**  
 7905 N.W. 77th Ave.  
 Medley, FL. 33166  
 Phone: (305) 713-1871 Fax: (305) 713-1872



2 TRACK FRAMES



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Revisions:	
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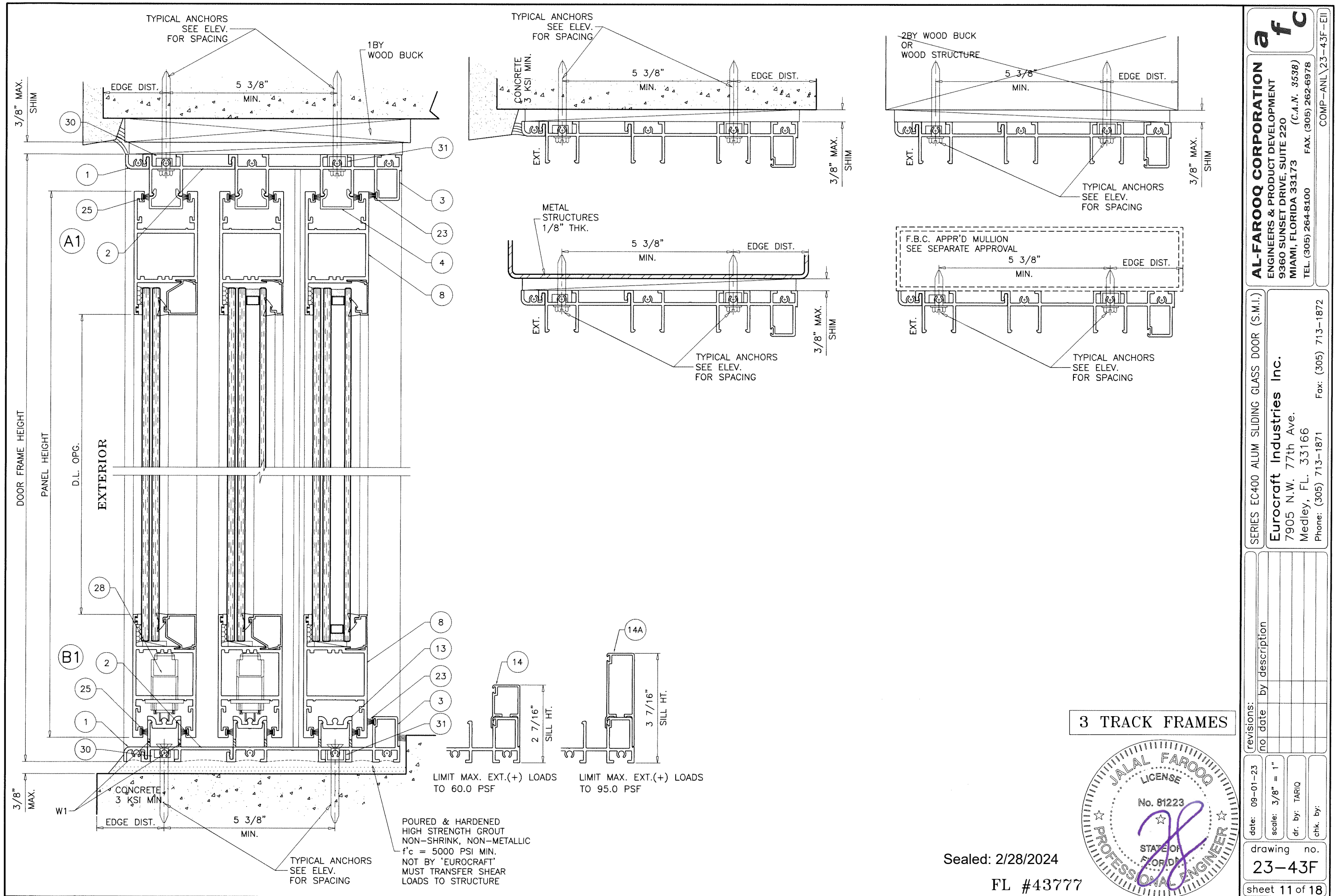
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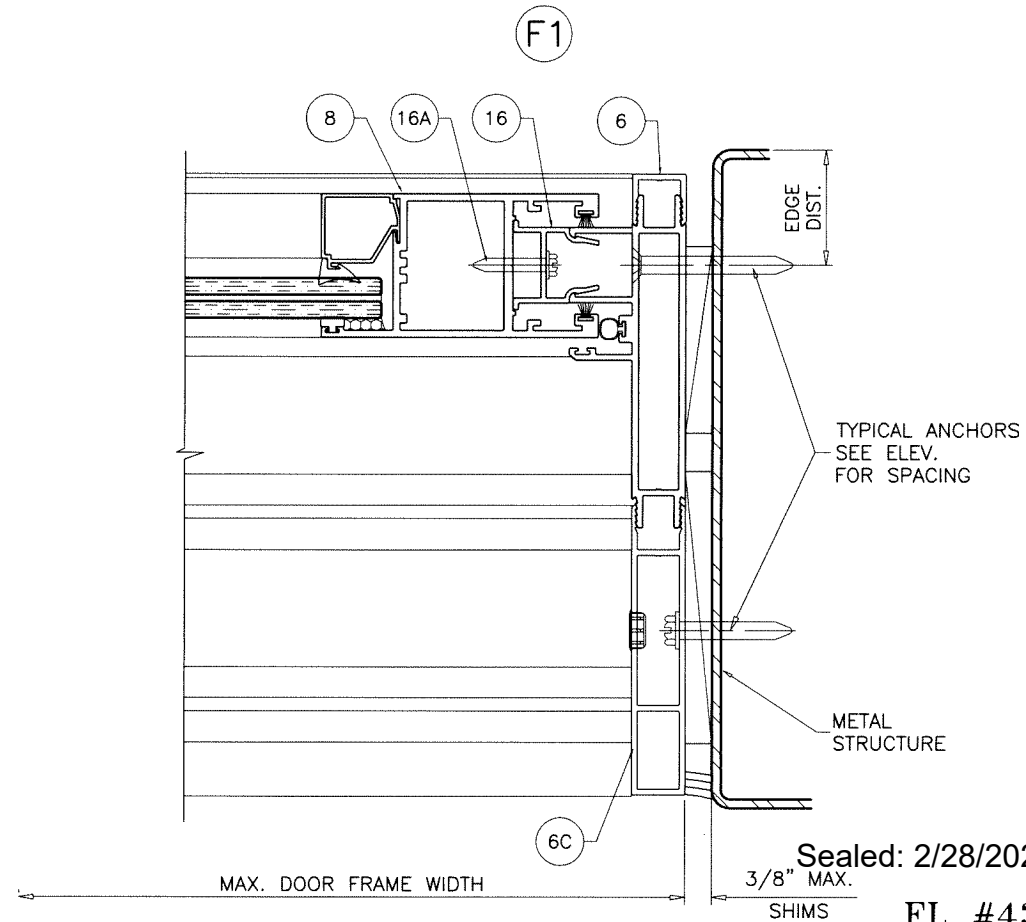
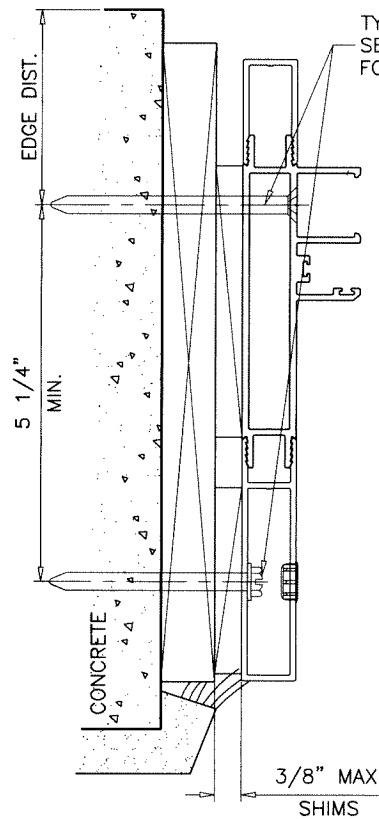
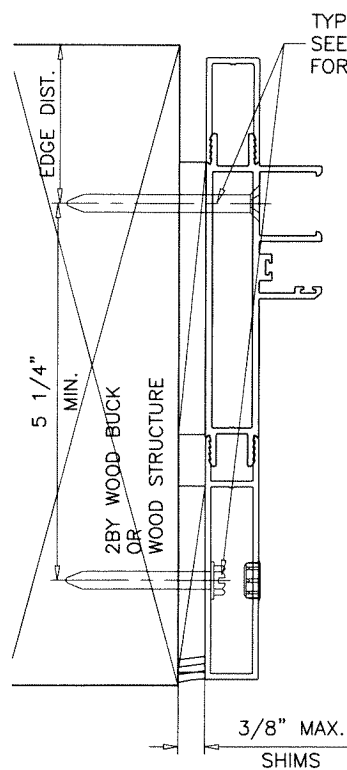
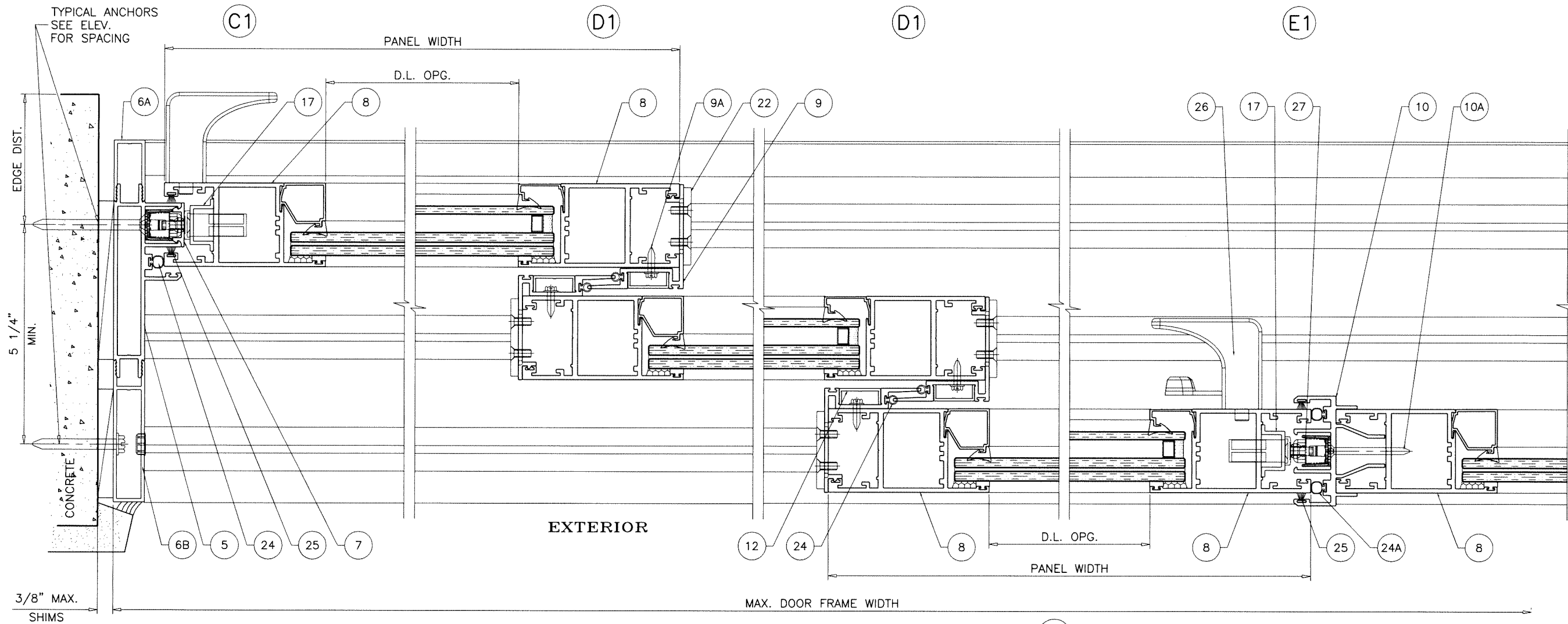
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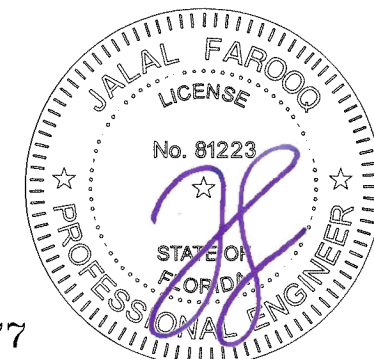








3 TRACK FRAMES



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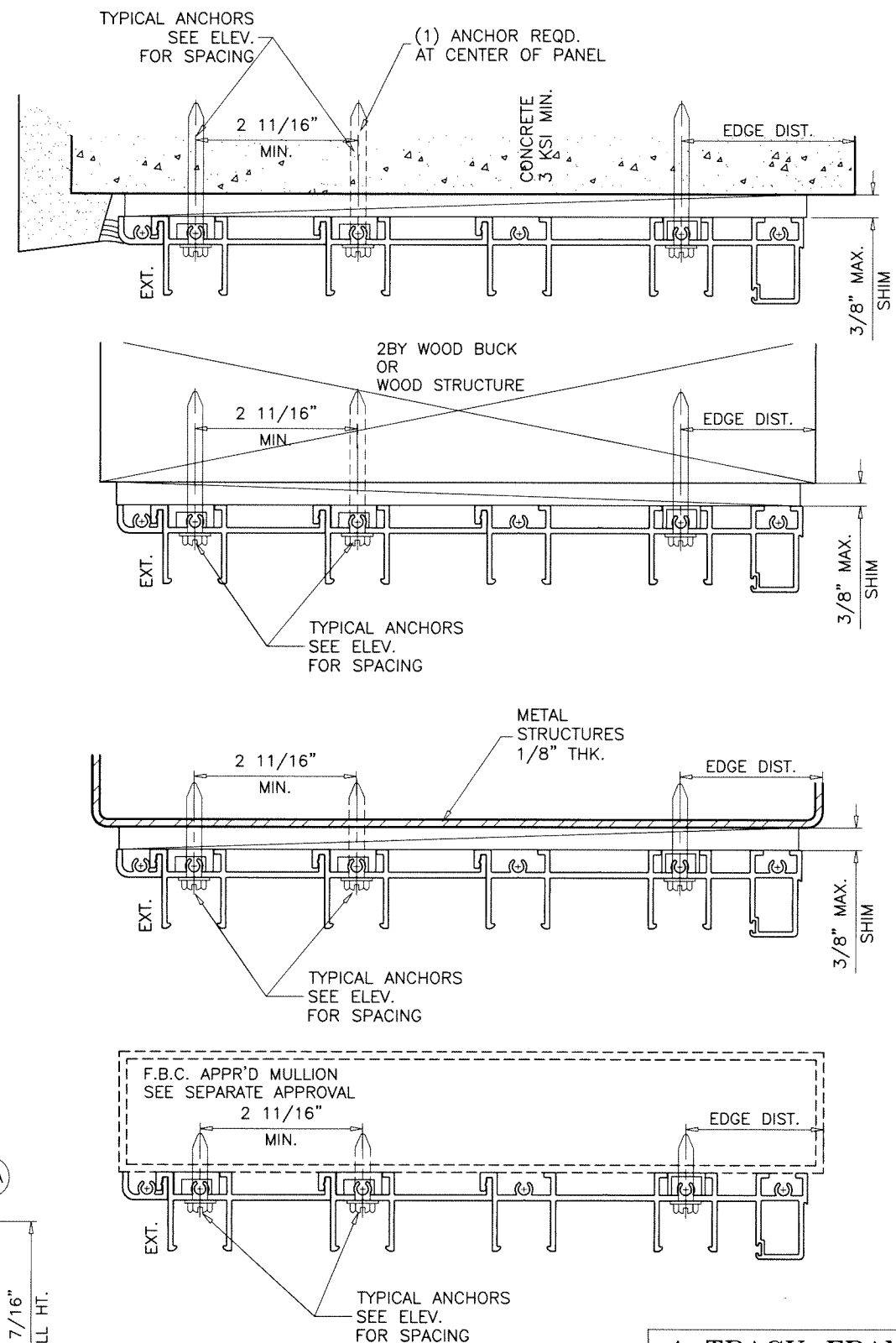
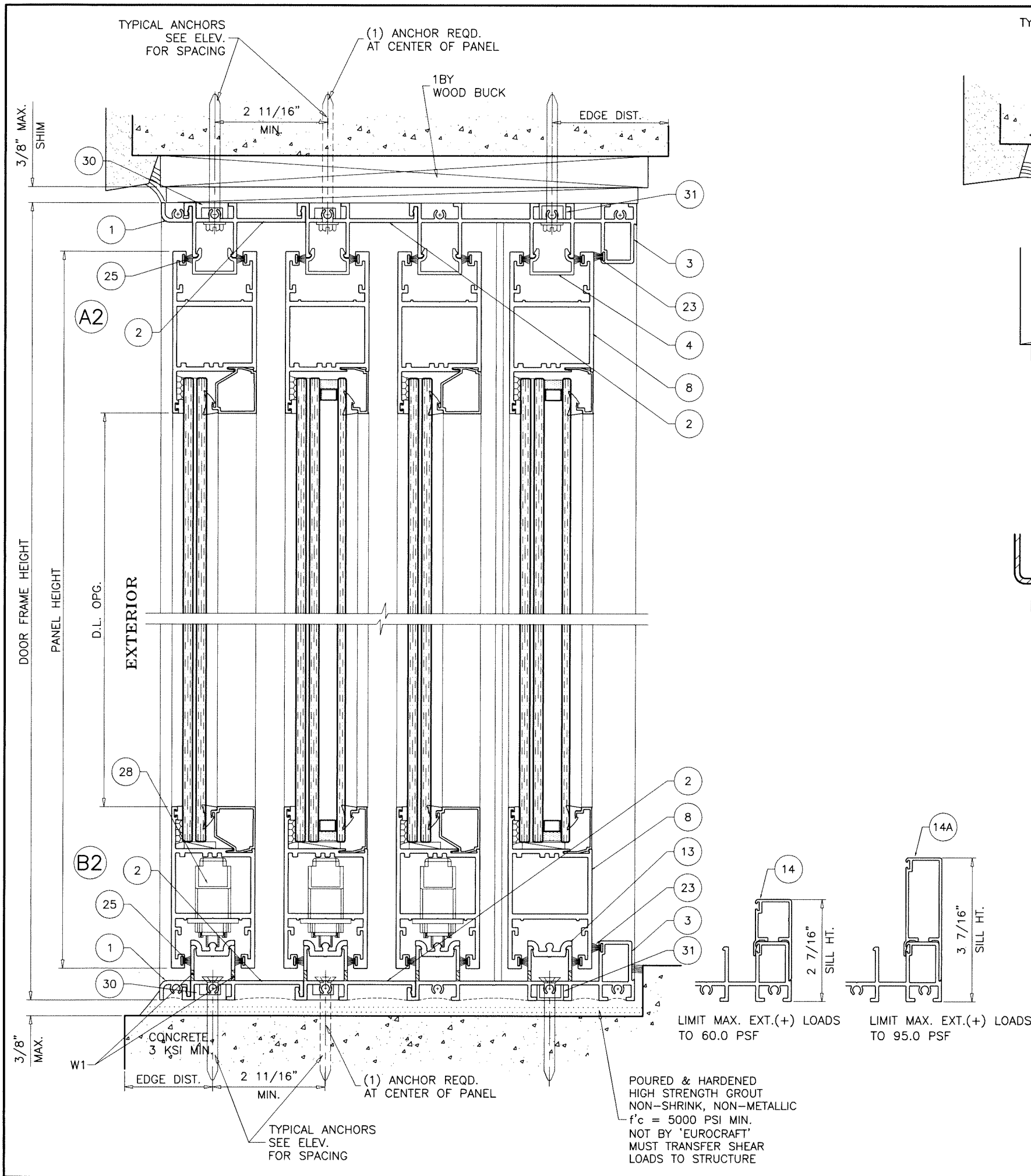
Phone: (305) 713-1871

Fax: (305) 713-1872

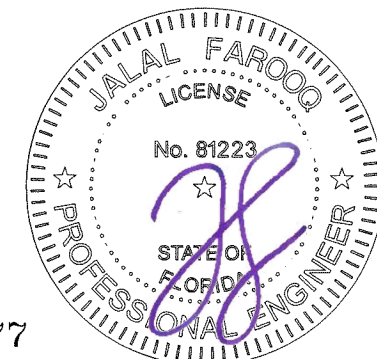
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MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978

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date:	09-01-23	scale:	3/8" = 1"	dr. by:	TARIQ
chk. by:		drawing no.	23-43F	sheet	12 of 18



4 TRACK FRAMES



Sealed: 2/28/2024  
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revisions:

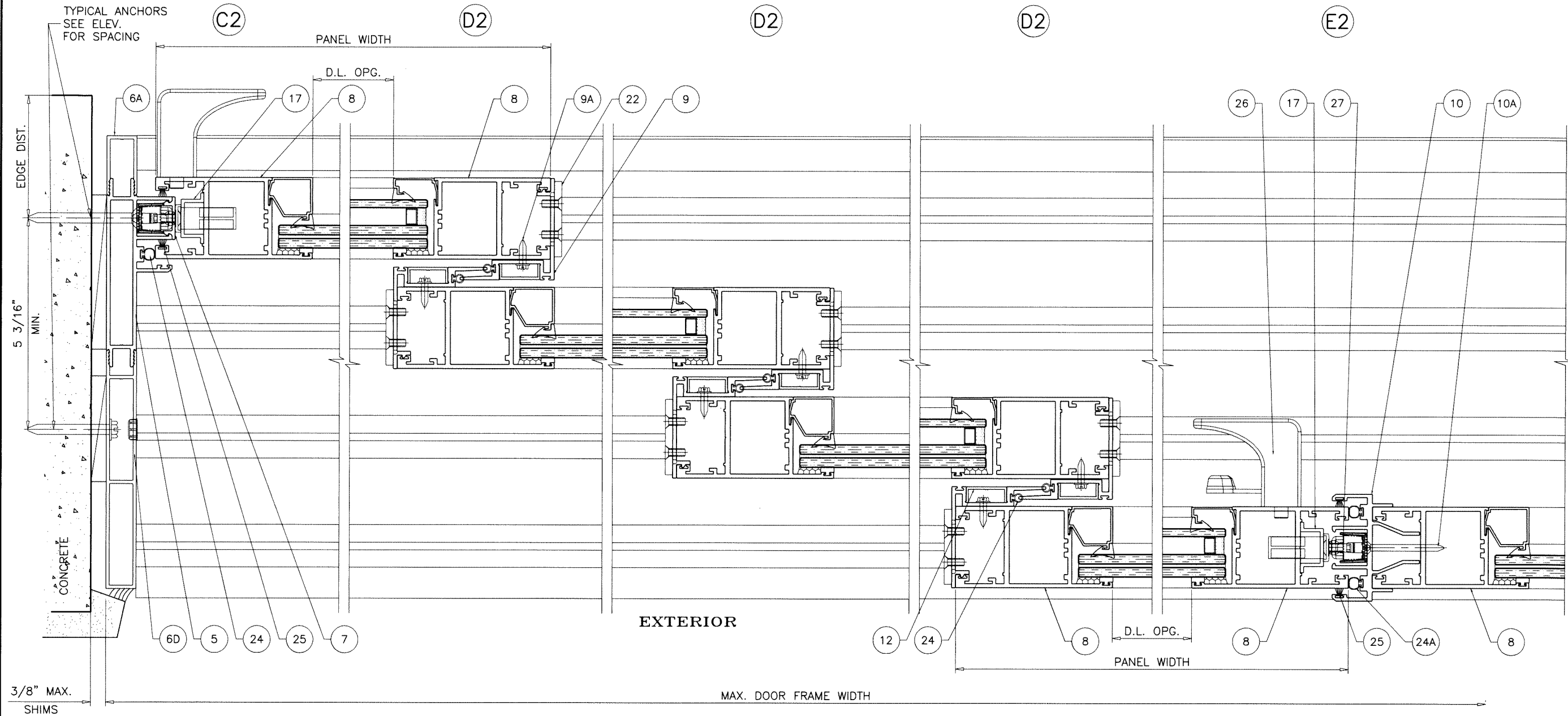
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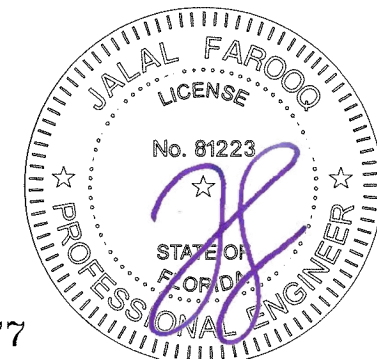
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chk. by:

drawing no.  
**23-43F**  
sheet 13 of 18





4 TRACK FRAMES



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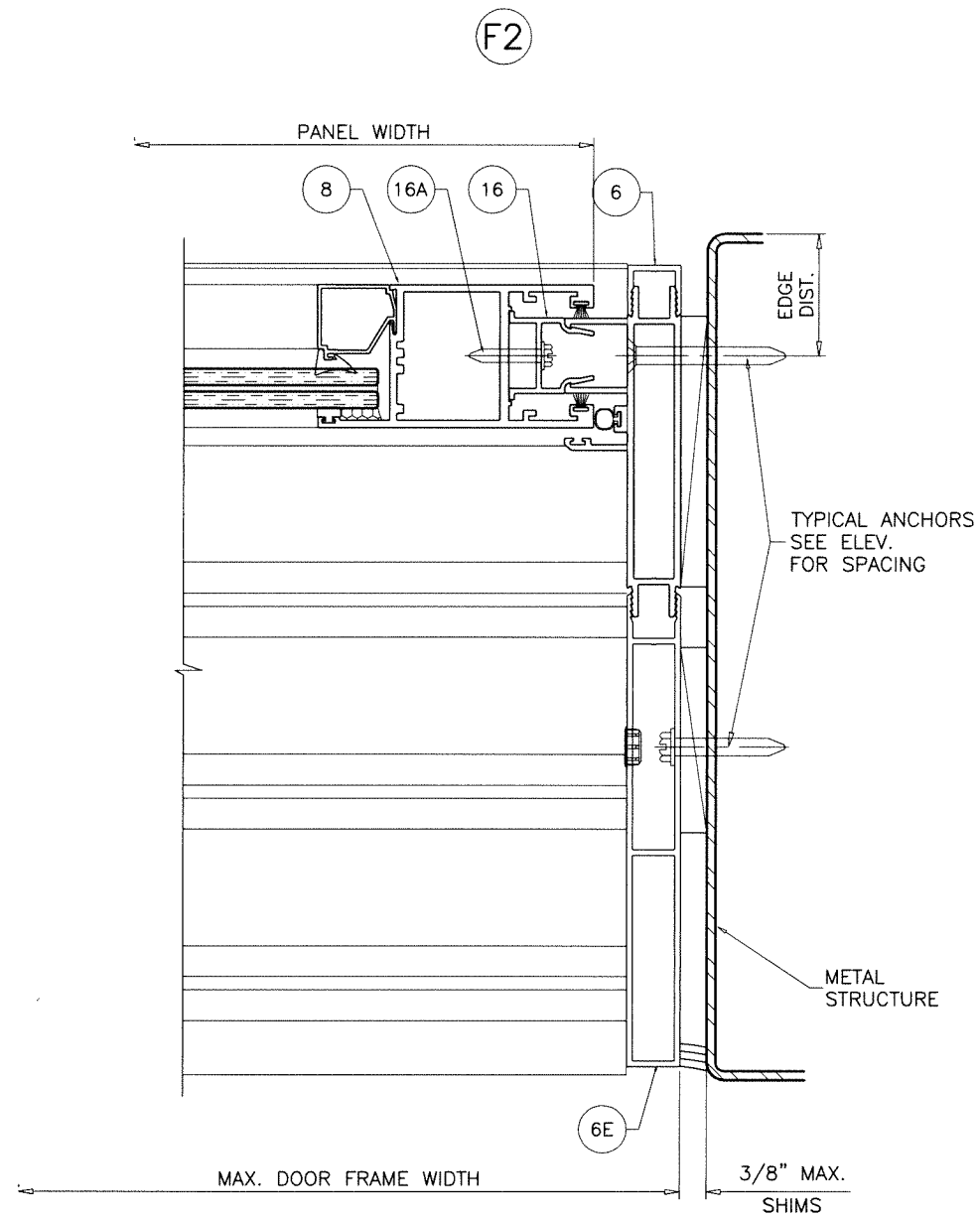
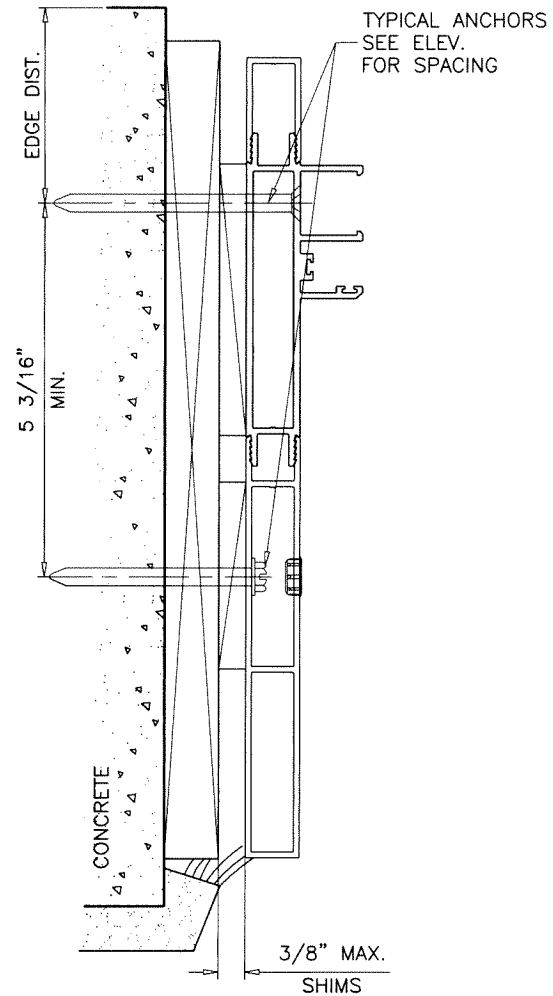
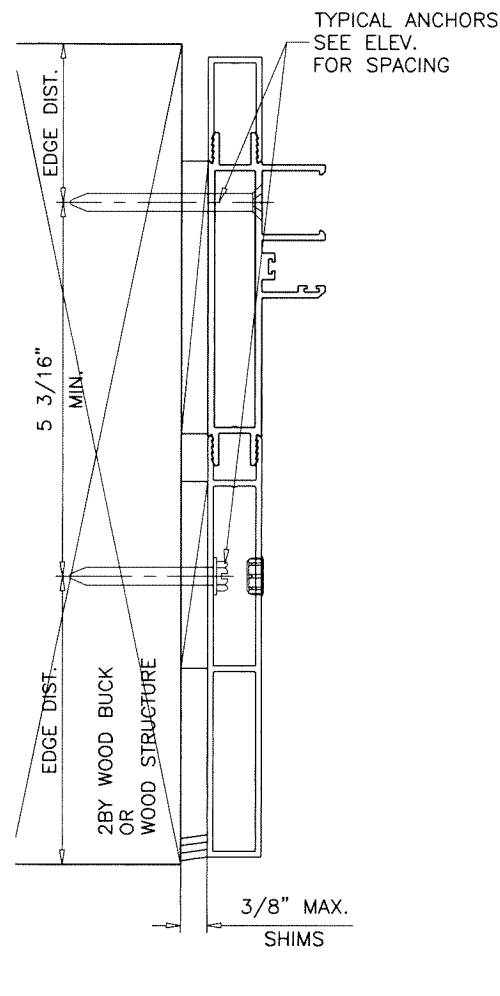
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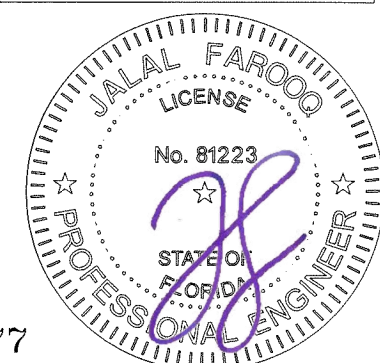
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drawing no.	23-43F						sheet 14 of 18





# 4 TRACK FRAMES



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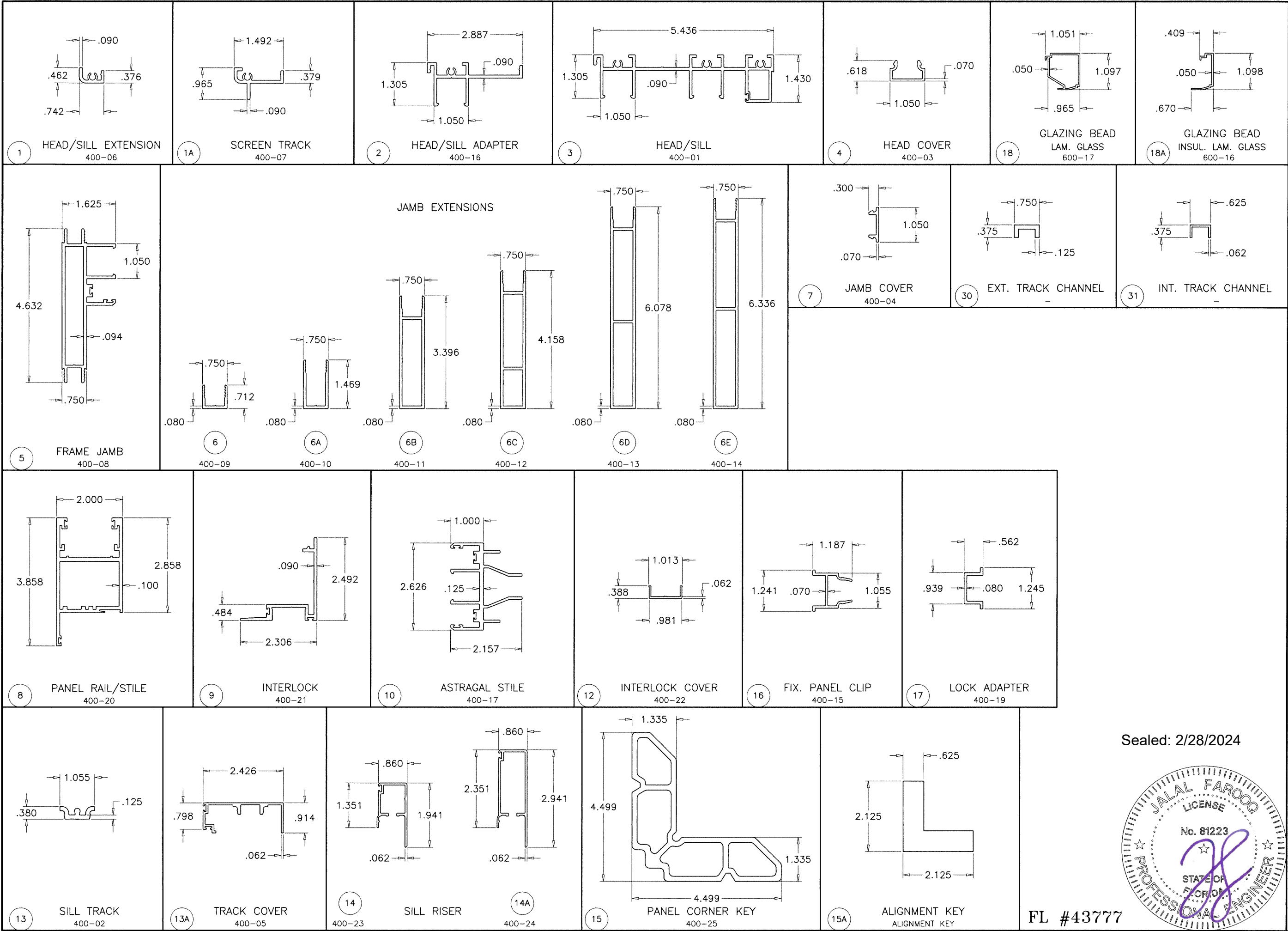
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chk. by:

drawing no.

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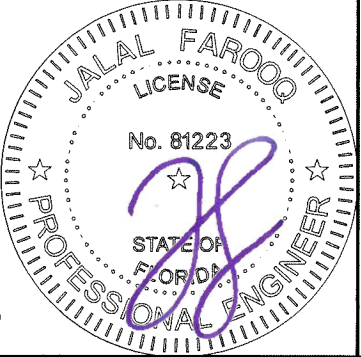
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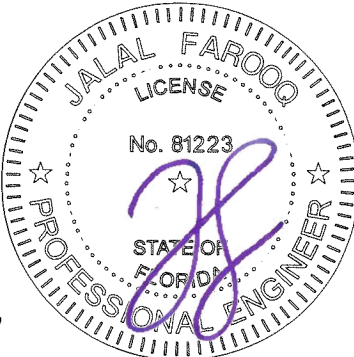
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	400-06	2	HEAD/SILL EXTENSION	6063-T5	-
1A	400-07	2	SCREEN TRACK	6063-T5	-
2	400-16	AS REQD.	HEAD/SILL ADAPTER	6063-T5	-
3	400-01	2	FRAME HEAD/SILL	6063-T5	-
4	400-03	AS REQD.	HEAD COVER	6063-T5	-
5	400-08	2	FRAME JAMB	6063-T5	-
6	400-09	AS REQD.	JAMB EXTENSION	6063-T5	-
6A	400-10	AS REQD.	JAMB EXTENSION	6063-T5	-
6B	400-11	AS REQD.	JAMB EXTENSION	6063-T5	-
6C	400-12	AS REQD.	JAMB EXTENSION	6063-T5	-
6D	400-13	AS REQD.	JAMB EXTENSION	6063-T5	-
6E	400-14	AS REQD.	JAMB EXTENSION	6063-T5	-
7	400-04	AS REQD.	JAMB COVER	6063-T5	-
8	400-20	AS REQD.	PANEL RAIL/STILE	6063-T5	-
9	400-21	AS REQD.	INTERLOCK	6063-T5	-
9A	#8 X 3/4"	AS REQD.	INTERLOCK FASTENERS, AT 6" FROM ENDS & 20" O.C. MAX.	ST. STEEL	PH SMS
10	400-17	AS REQD.	ASTRAGAL STILE	6063-T5	-
10A	#10 X 2"	AS REQD.	ASTRAGAL FASTENERS, AT 6" FROM ENDS & 20" O.C. MAX.	ST. STEEL	PH SMS
11	-	-	-	-	-
12	400-22	AS REQD.	INTERLOCK COVER	6063-T5	-
13	400-02	AS REQD.	SILL TRACK	6063-T5	-
13A	400-05	AS REQD.	TRACK COVER	6063-T5	-
14	400-23	AS REQD.	SILL RISER	6063-T5	-
14A	400-24	AS REQD.	SILL RISER	6063-T5	-
15	400-25	1/ CORNER	PANEL CORNER KEY	6063-T6	-
15A	-	2/ CORNER	ALIGNMENT KEY	ST. STEEL	-
16	400-15	3/ FIX. PANEL	FIXED PANEL CLIP, 5" LONG	6063-T5	AT 10" FROM EACH END & AT MIDSPAN
16A	#8 X 1-1/2"	2/ CLIP	FIXED PANEL FASTENERS	ST. STEEL	FH SELF DRILLING SCREWS
17	400-19	AS REQD.	LOCK ADAPTER, 8-3/8" LONG	6063-T5	AT LOCK LOCATION
18	600-17	AS REQD.	GLAZING BEAD (LAM. GLASS)	6063-T5	-
18A	600-16	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T5	-
19	E7011768	AS REQD.	INTERIOR GLAZING GASKET	EPDM	DUROMETER 60±5 SHORE A
20	82505	AS REQD.	EXTERIOR GLAZING GASKET	TPV/POLYPROP	-
21	-	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
22	-	2/ PANEL	INTERLOCK GUIDE AT TOP & BOTTOM	NYLON	FASTENED WITH (2) #8 X 1" FH SDS
23	-	AS REQD.	FIN SEAL W'STRIPPING	WOOL	-
24	MPI-83033	AS REQD.	INTERLOCK W'STRIPPING	TPV/POLYPROP	MELTPPOINT
24A	MPI-83032	AS REQD.	ASTRAGAL W'STRIPPING	TPV/POLYPROP	MELTPPOINT
25	W33251NK000B	AS REQD.	FIN SEAL PILE W'STRIPPING	WOOL	ULTRAFAB
26	-	-	LOCK AND HANDLE	-	-
27	-	-	ADJUSTABLE STRIKE	-	-
28	-	2/ MOV. PANEL	ROLLER ASSEMBLY, AT 8-1/2" FROM EACH END	-	FASTENED WITH (2) #10 X 1-1/2" FH SDS
29	#10 X 1-1/2"	-	FRAME ASSEMBLY FASTENERS	ST. STEEL	HWH SELF DRILLING SCREWS
30	-	-	EXTERIOR TRACK CHANNEL	6063-T5	14" LONG AT STILES, 4" LONG AT MID PANEL
31	-	-	INTERIOR TRACK CHANNEL	6063-T5	14" LONG AT STILES, 4" LONG AT MID PANEL

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

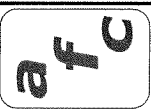
LOCKS:

SURFACE MOUNT METALLIC THREE PLY DUAL HOOK LOCK AT 38-3/4" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #8 X 1-1/4" FH SELF DRILLING SCREWS  
SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 39" FROM BOTTOM FASTENED WITH (2) #8 X 1-1/4" FH SMS



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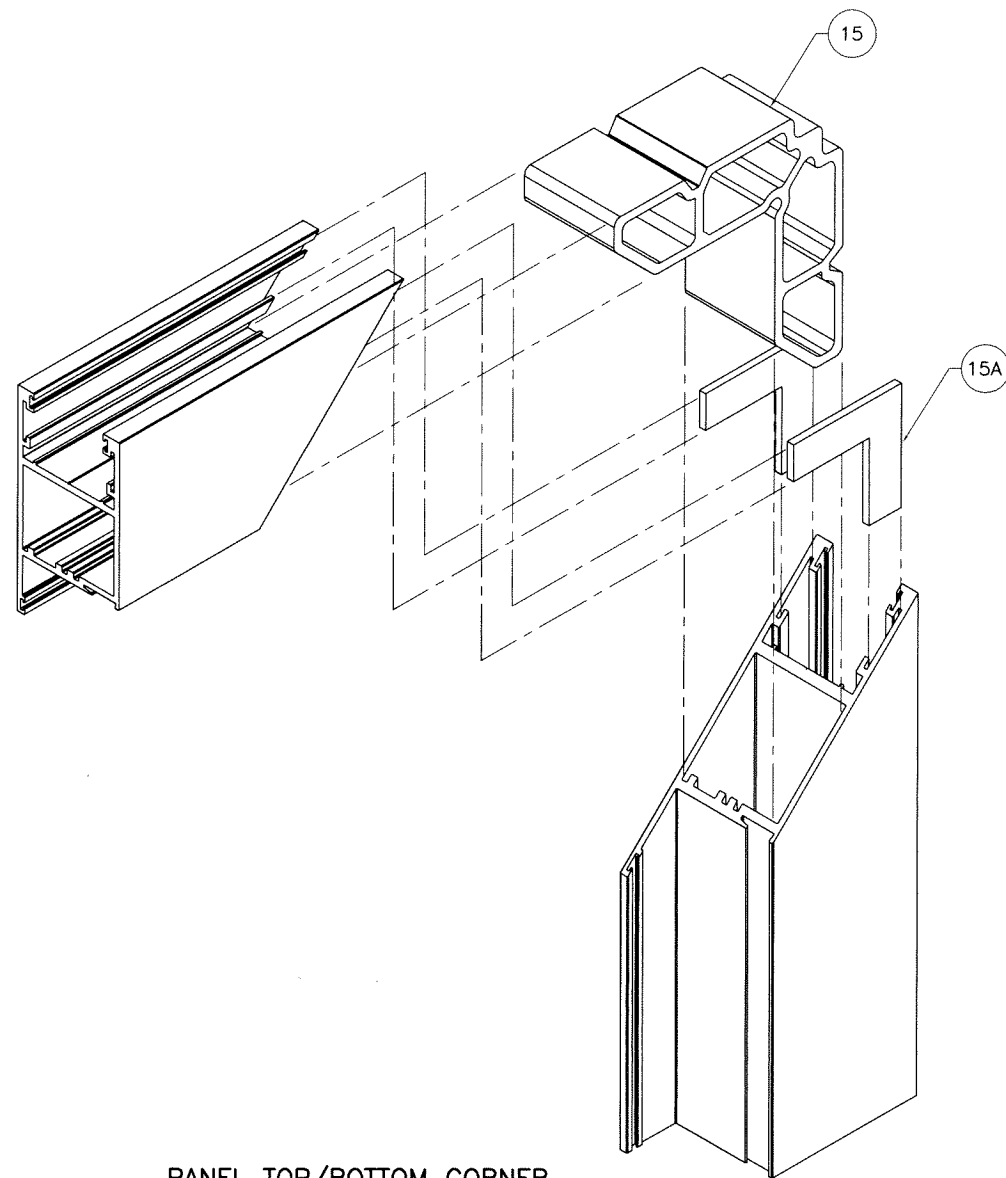
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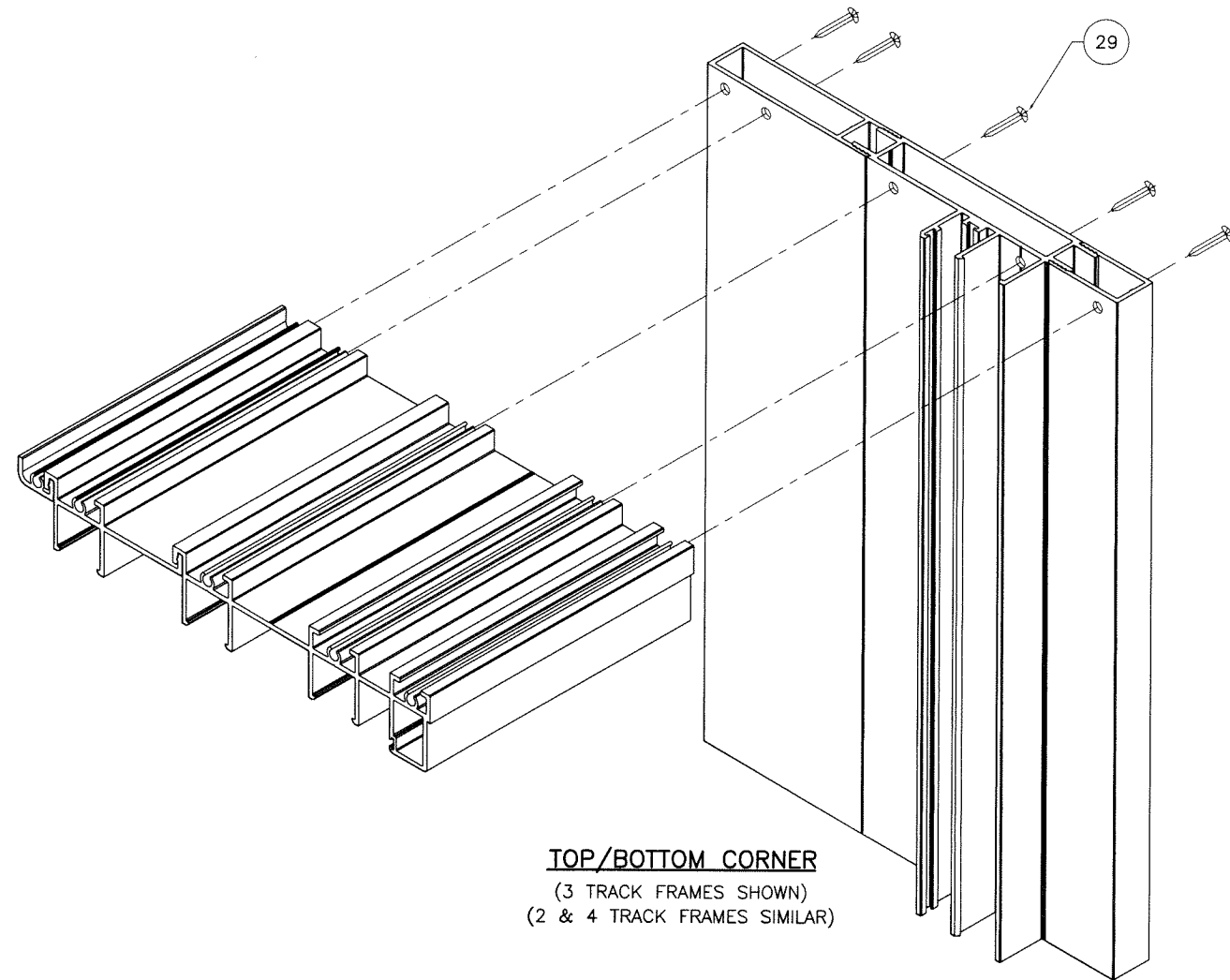
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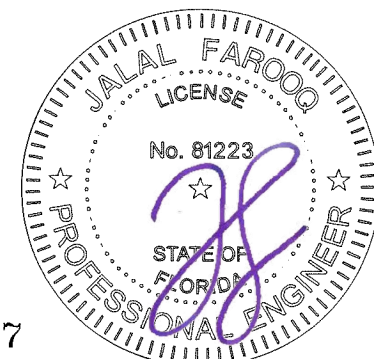




PANEL TOP/BOTTOM CORNER



TOP/BOTTOM CORNER  
(3 TRACK FRAMES SHOWN)  
(2 & 4 TRACK FRAMES SIMILAR)



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**a f c**

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revisions:		by description	
no	date		

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**23-43F**

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