

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

DAYLITE OPENING WIDTH:
PANEL WIDTH - 5.688"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 5.813"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.250"

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.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

SERIES ES-EL400-10 (S.M.I.)
ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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.

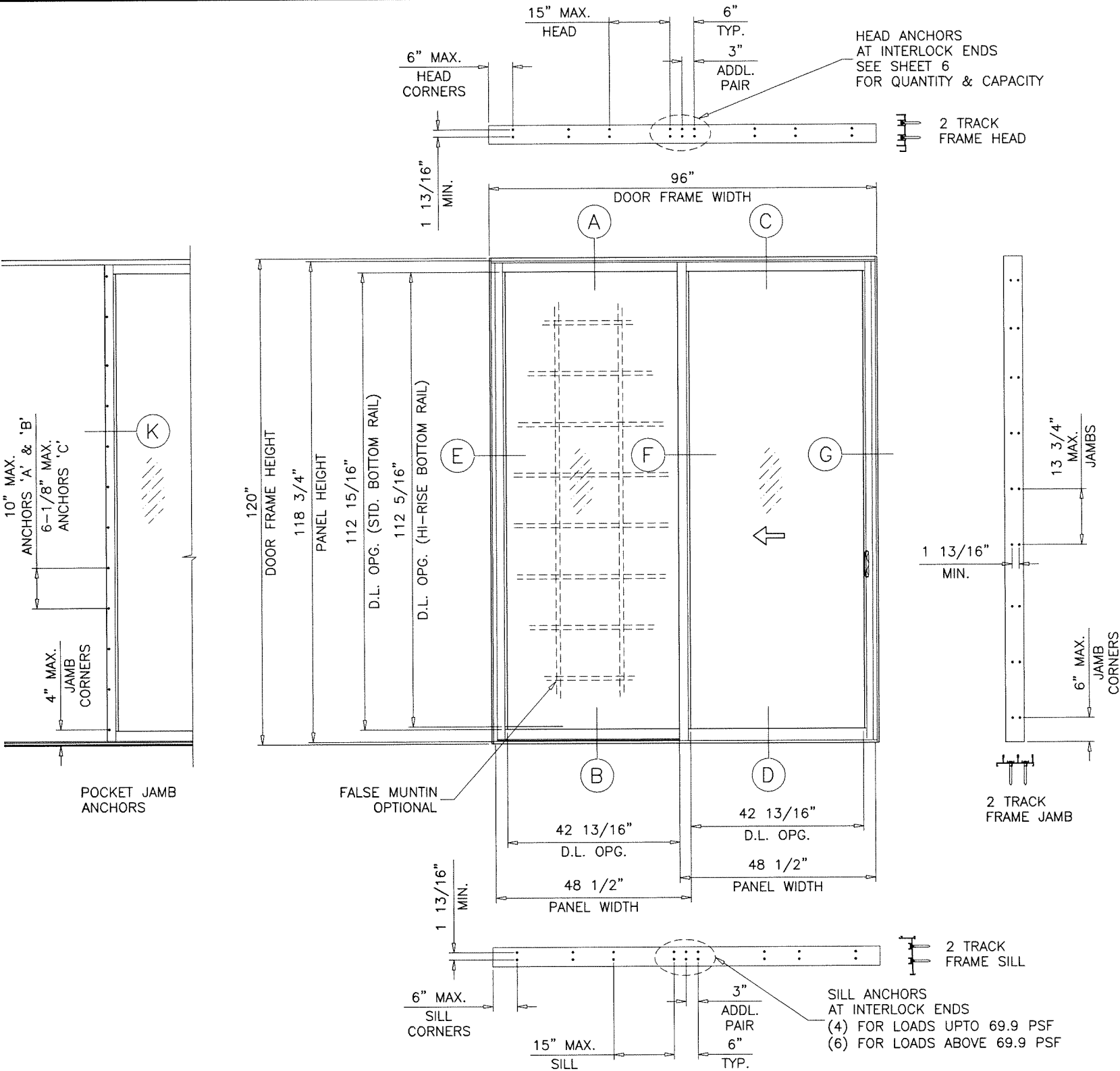
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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.



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 TABLE ON SHEET 5 FOR THE REINFORCING OPTION USED.
- STEP 3** USING CHARTS ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

Sealed: 7/22/2026

TYPICAL ELEVATION
OX

FL #22645

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.

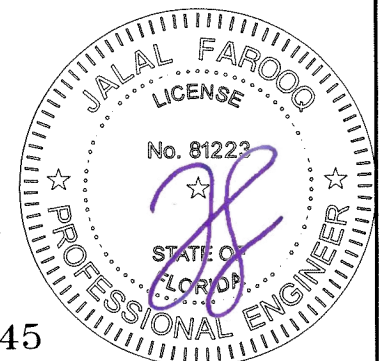


ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.)

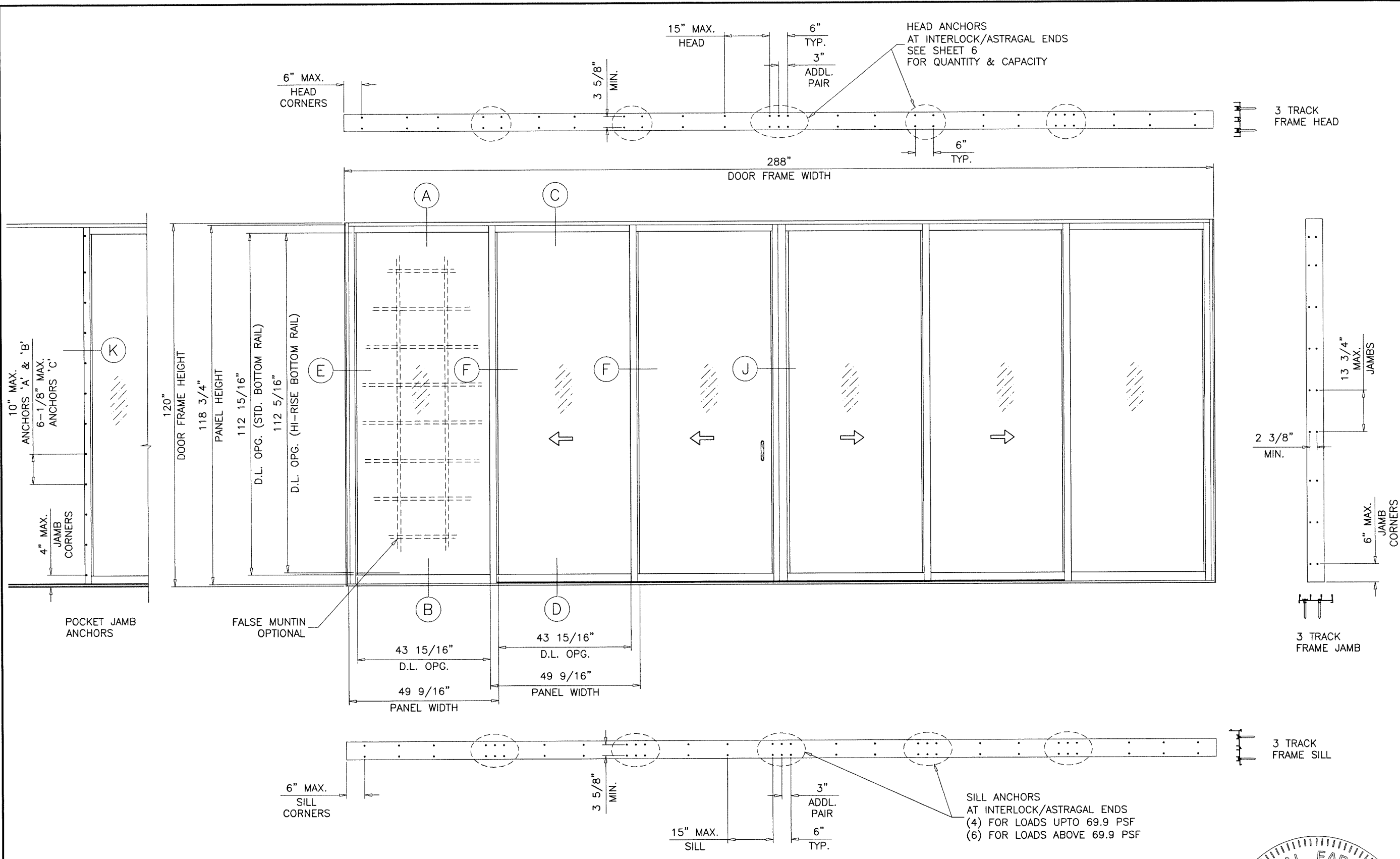
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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
COMP-ANL 22-16F-ES

revisions:	no	date	by	description
	A	07.07.23		UPDATED TO 2023 FBC
	B	08.14.25		NON WATER SILL OPTIONS ADDED
	C	11.11.25		HI-RISE BOTTOM RAIL ADDED
	D	07.20.26		UPDATED TO 2026 FBC
date:	05-05-22			
scale:	3/8"=1'-0"			
dr. by:	TARIQ			
chk. by:				
drawing no.	22-16F			
sheet	1 of 23			



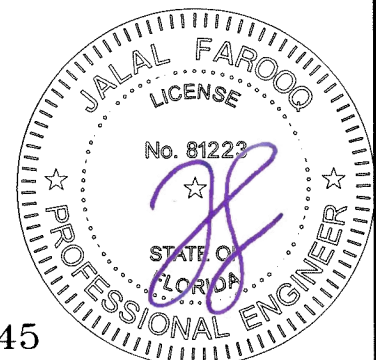
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TYPICAL ELEVATION
OXX-XXO

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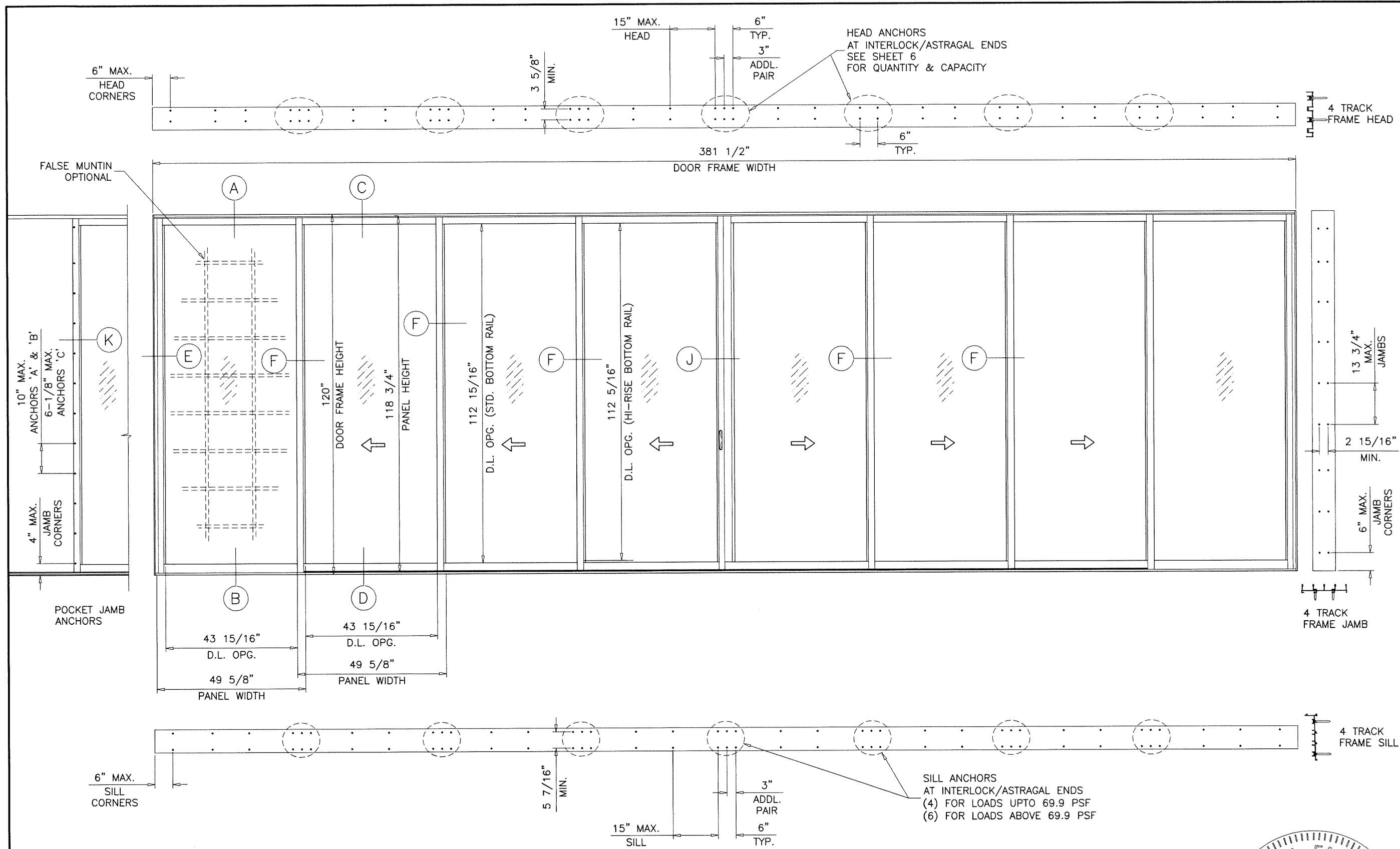
dr. by: TARIQ

chk. by:

drawing no.

22-16F

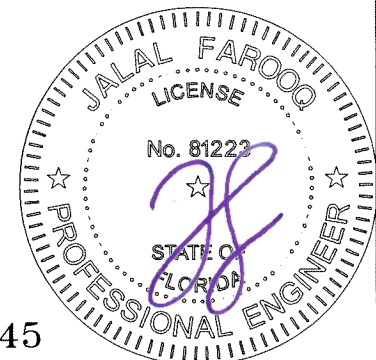
sheet 3 of 23



TYPICAL ELEVATION
OXXX-XXXXO

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ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.)

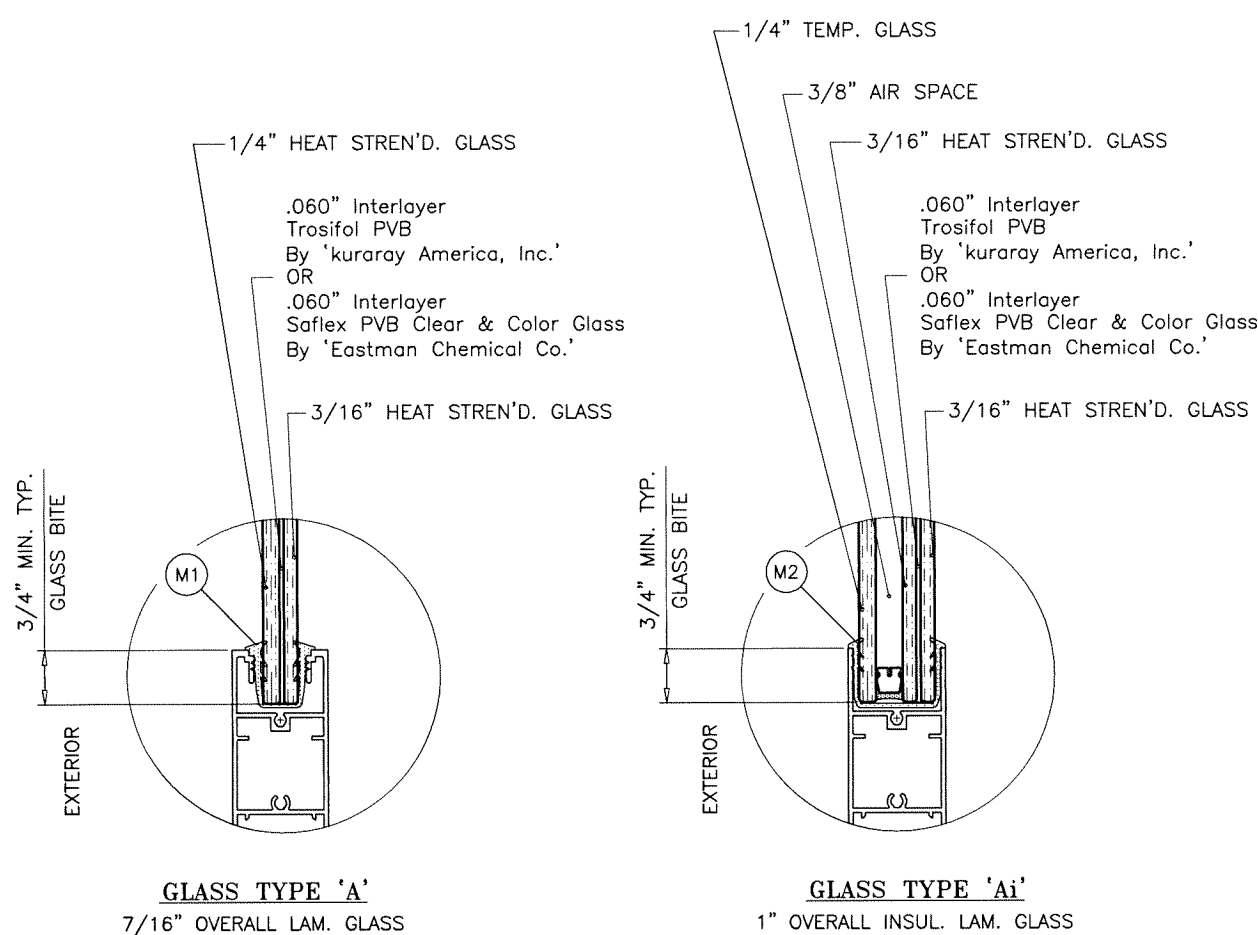
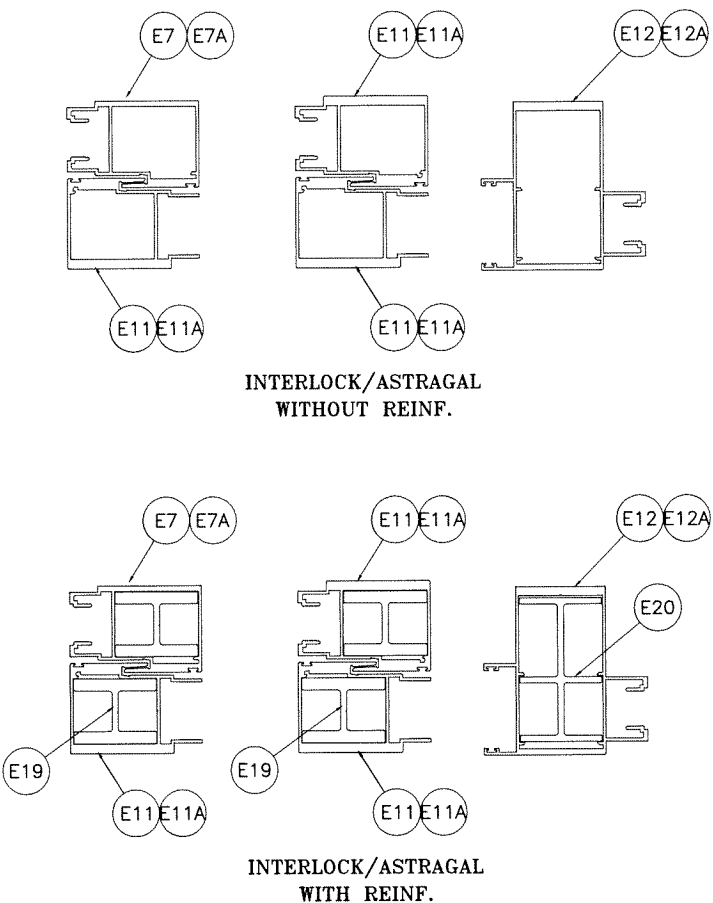
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chk. by:

drawing no.
22-16F
sheet 4 of 23

DESIGN LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'Ai'			
		INTERLOCK/ASTRAGAL WITHOUT REINF.		INTERLOCK/ASTRAGAL WITH REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0
54		65.0	65.0	80.0	80.0
60		65.0	65.0	80.0	80.0
30	84	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0
54		65.0	65.0	80.0	80.0
60		65.0	65.0	80.0	80.0
30	90	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0
54		65.0	65.0	80.0	80.0
60		65.0	65.0	80.0	80.0
30	96	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0
54		65.0	65.0	80.0	80.0
60		65.0	65.0	80.0	80.0
30	102	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0
54		65.0	65.0	80.0	80.0
30	108	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0
30	114	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0
30	120	65.0	65.0	80.0	80.0
36		65.0	65.0	80.0	80.0
42		65.0	65.0	80.0	80.0
48		65.0	65.0	80.0	80.0



GLAZING OPTIONS

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

LOADS SHOWN IN CHART ABOVE ARE FOR 3-11/16" SILL HEIGHT 'E17C',
FOR 3-1/8" SILL HEIGHT 'E17B' LIMIT EXT.(+) LOADS TO 65.0 PSF
FOR 2-3/4" SILL HEIGHT 'E17A' LIMIT EXT.(+) LOADS TO 53.3 PSF AND MAX. PANEL AREA OF 35.4 SQ. FT.
SEE SHEET 14 FOR DETAILS

SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.
SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.
DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

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

Sealed: 7/22/2026

FL #22645



af c
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sheet 5 of 23

HEAD ANCHOR LOAD CAPACITY - PSF															
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPES 'A' & 'B'										ANCHOR TYPE 'C'			
		1/4" MAX. SHIM		3/8" MAX. SHIM			1/2" MAX. SHIM				1/4" MAX. SHIM	3/8" MAX. SHIM			
		4 ANCHORS AT MTG. STILE ENDS	6 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	10 ANCHORS AT MTG. STILE ENDS	4 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. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
30	82	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	71.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	80.0	80.0	80.0	80.0	62.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54		80.0	80.0	71.6	80.0	80.0	55.6	74.2	80.0	80.0	80.0	71.8	80.0	80.0	80.0
60		72.7	80.0	64.4	80.0	80.0	50.1	66.8	80.0	80.0	80.0	64.7	80.0	80.0	80.0
30	84	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	69.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	80.0	78.6	80.0	80.0	61.1	80.0	80.0	80.0	80.0	78.9	80.0	80.0	80.0
54		78.9	80.0	69.9	80.0	80.0	54.3	72.4	80.0	80.0	80.0	70.1	80.0	80.0	80.0
60		71.0	80.0	62.9	80.0	80.0	48.9	65.2	80.0	80.0	80.0	63.1	80.0	80.0	80.0
30	90	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	76.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	65.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48		80.0	80.0	73.4	80.0	80.0	57.0	76.1	80.0	80.0	80.0	73.6	80.0	80.0	80.0
54		73.6	80.0	65.2	80.0	80.0	50.7	67.6	80.0	80.0	80.0	65.5	80.0	80.0	80.0
60		66.2	80.0	58.7	78.3	80.0	45.6	60.8	76.1	80.0	80.0	58.9	78.5	80.0	80.0
30	96	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	71.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	78.6	80.0	80.0	61.1	80.0	80.0	80.0	80.0	78.9	80.0	80.0	80.0
48		77.6	80.0	68.8	80.0	80.0	53.5	71.3	80.0	80.0	80.0	69.0	80.0	80.0	80.0
54		69.0	80.0	61.1	80.0	80.0	47.5	63.4	79.2	80.0	80.0	61.4	80.0	80.0	80.0
60		62.1	80.0	55.0	73.4	80.0	42.8	57.0	71.3	80.0	79.2	55.2	73.6	80.0	80.0
30	102	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	67.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	74.0	80.0	80.0	57.5	76.7	80.0	80.0	80.0	74.3	80.0	80.0	80.0
48		73.1	80.0	64.7	80.0	80.0	50.3	67.1	80.0	80.0	80.0	65.0	80.0	80.0	80.0
54		64.9	80.0	57.5	76.7	80.0	44.7	59.6	74.6	80.0	80.0	57.8	77.0	80.0	80.0
30	108	80.0	80.0	80.0	80.0	80.0	76.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	63.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		78.9	80.0	69.9	80.0	80.0	54.3	72.4	80.0	80.0	80.0	70.1	80.0	80.0	80.0
48		69.0	80.0	61.1	80.0	80.0	47.5	63.4	79.2	80.0	80.0	61.4	80.0	80.0	80.0
30	114	80.0	80.0	80.0	80.0	80.0	72.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	77.2	80.0	80.0	60.0	80.0	80.0	80.0	80.0	77.5	80.0	80.0	80.0
42		74.7	80.0	66.2	80.0	80.0	51.5	68.6	80.0	80.0	80.0	66.4	80.0	80.0	80.0
48		65.4	80.0	57.9	77.2	80.0	45.0	60.0	75.1	80.0	80.0	58.1	77.5	80.0	80.0
30	120	80.0	80.0	80.0	80.0	80.0	68.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	73.4	80.0	80.0	57.0	76.1	80.0	80.0	80.0	73.6	80.0	80.0	80.0
42		71.0	80.0	62.9	80.0	80.0	48.9	65.2	80.0	80.0	80.0	63.1	80.0	80.0	80.0
48		62.1	80.0	55.0	73.4	80.0	42.8	57.0	71.3	80.0	79.2	55.2	73.6	80.0	80.0

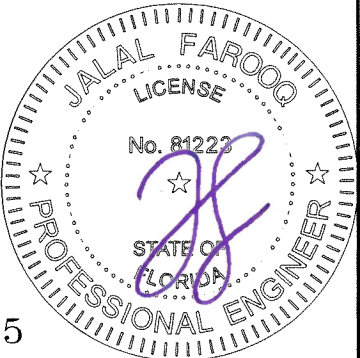
SEE CHART ON SHEET 5 FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 7/22/2026

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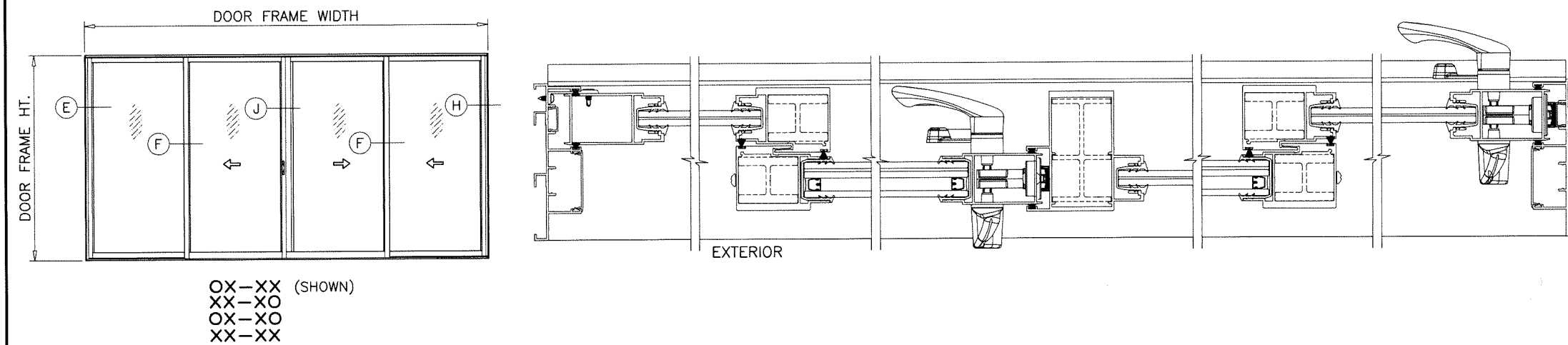
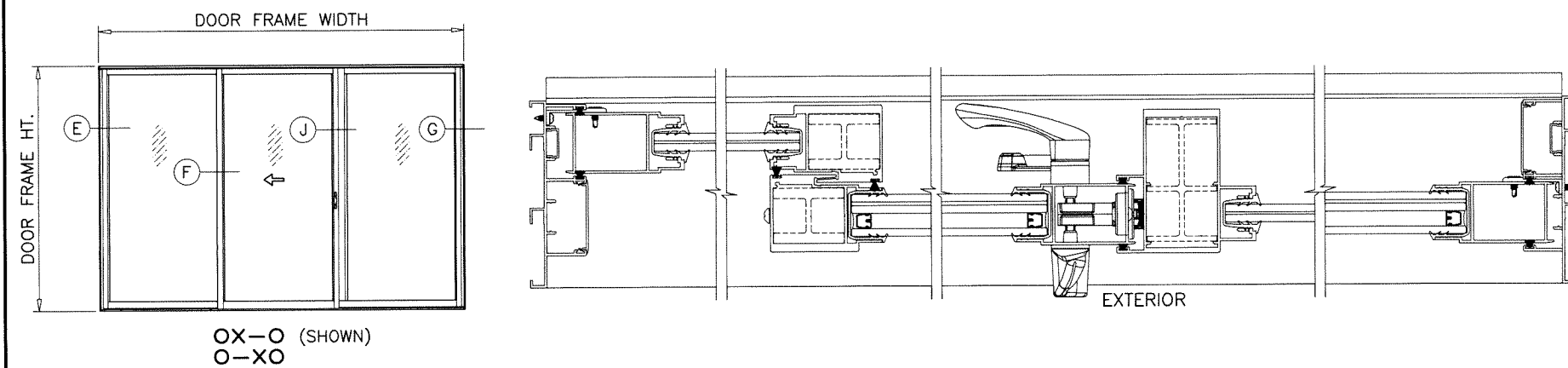
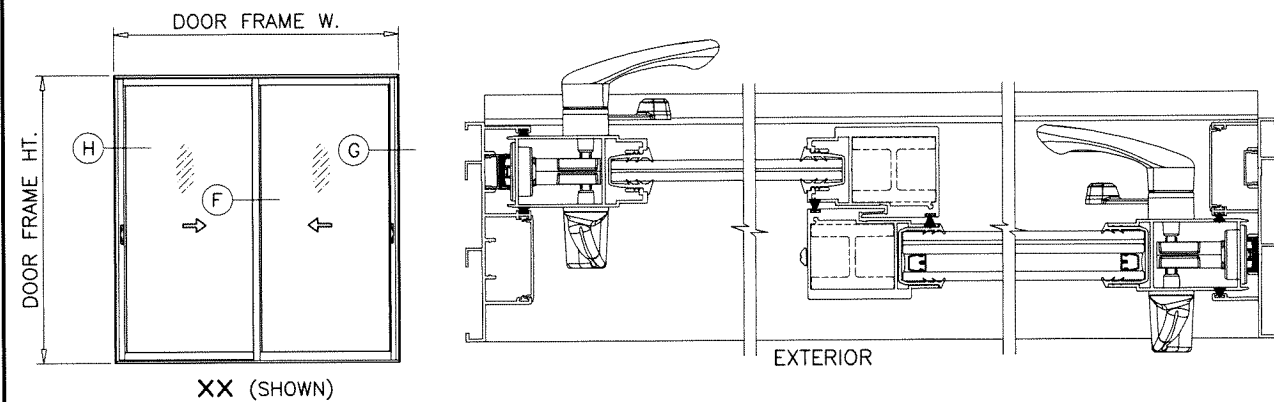
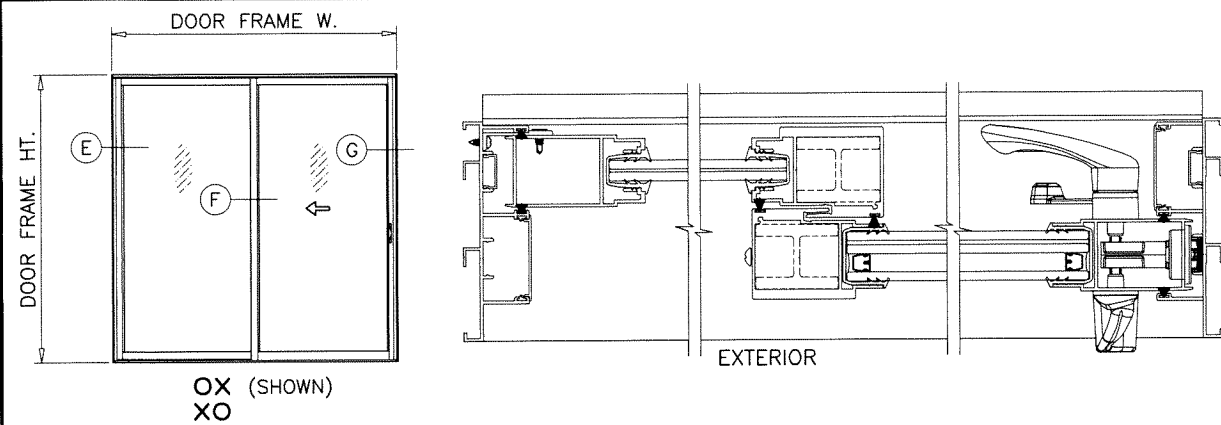
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22-16F
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COMP-ANL\22-16F-ES



APPROVED CONFIGURATIONS
NON-POCKETED DOORS
TWO (2) TRACKS

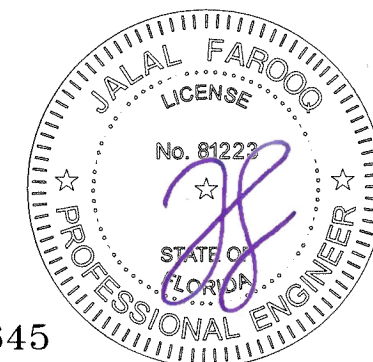
NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 2 TRACK FRAMES NOT TO EXCEED 240.0 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

INTERLOCK AND ASTRAGAL REINFORCING AS REQD.
SEE SHEET 5 FOR LOAD CAPACITY WITH OR WITHOUT
REINFORCING.

Sealed: 7/22/2026

FL #22645



ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\22-16F-ES

revisions:
no date by description

date: 05-05-22

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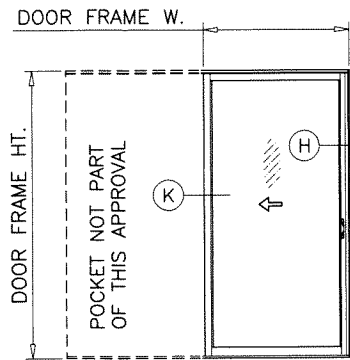
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chk. by:

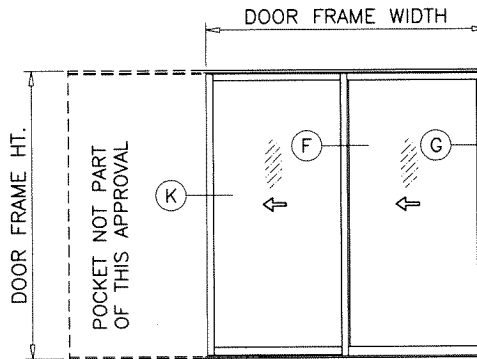
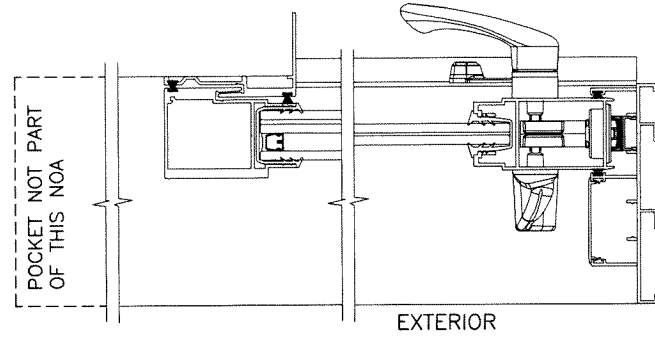
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22-16F

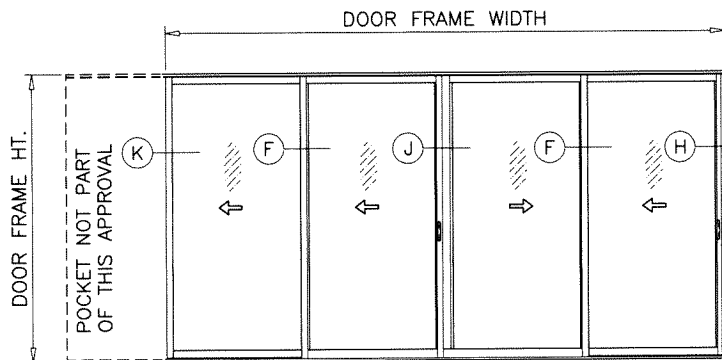
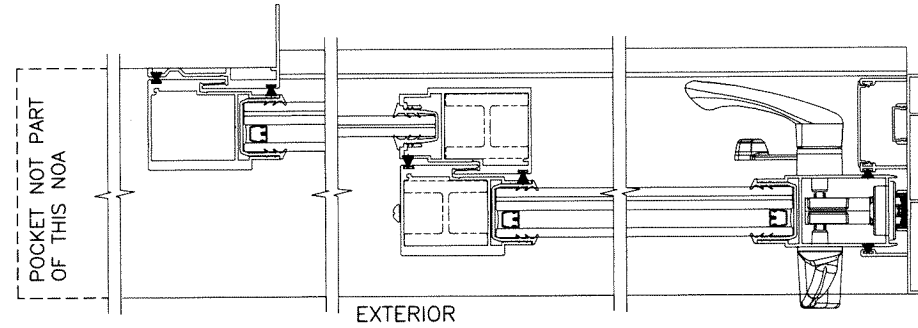
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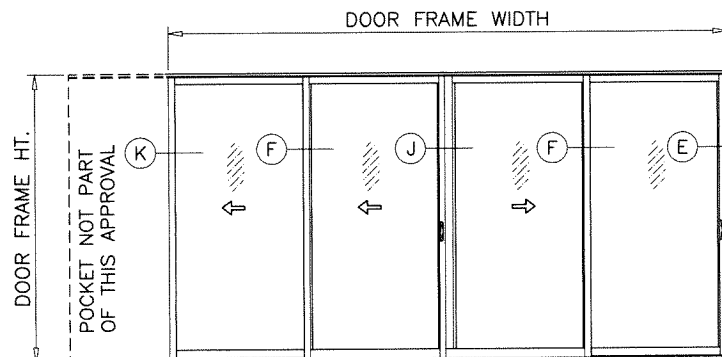
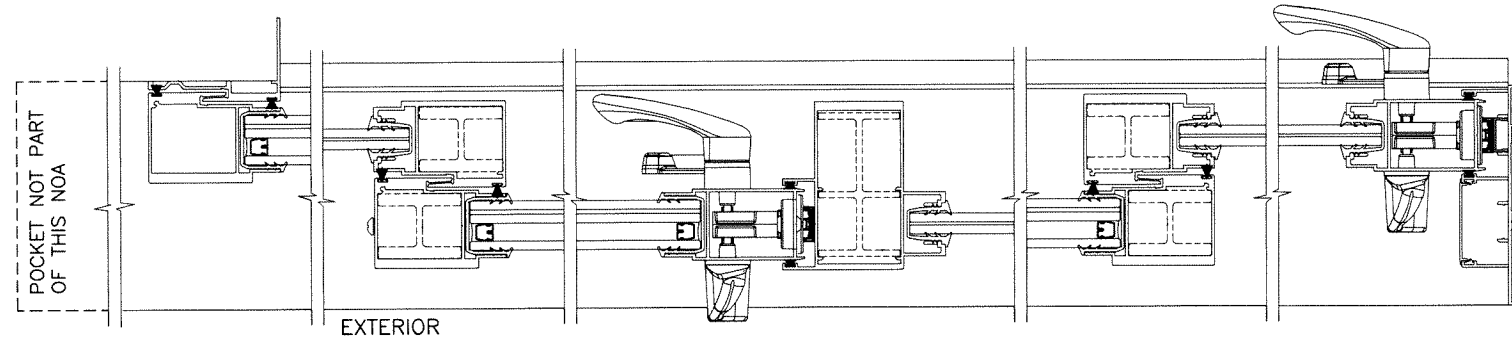
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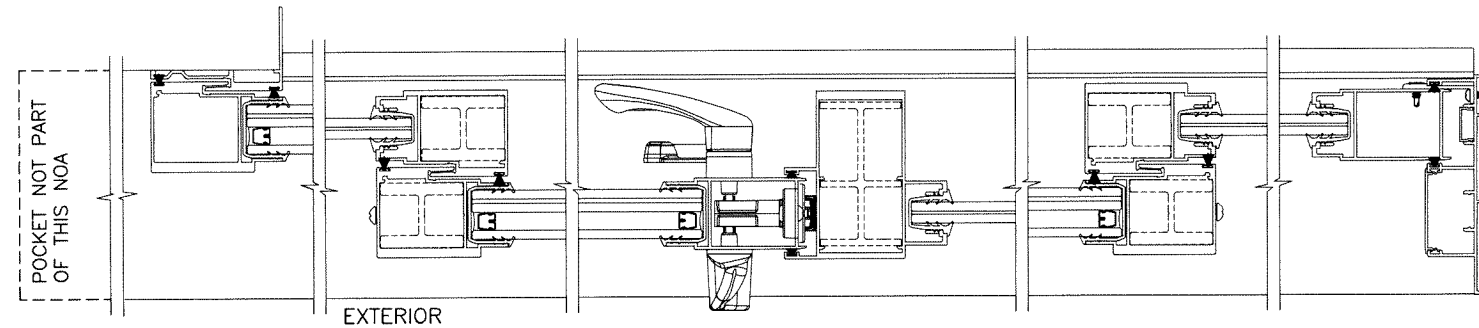
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PXX-XX (SHOWN)
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PXX-XO (SHOWN)
OX-XXP



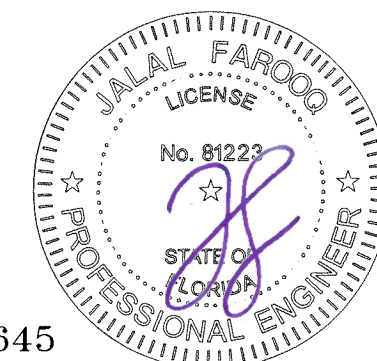
APPROVED CONFIGURATIONS
POCKETED DOORS
TWO (2) TRACKS

NOTE:

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REINFORCING.

Sealed: 7/22/2026

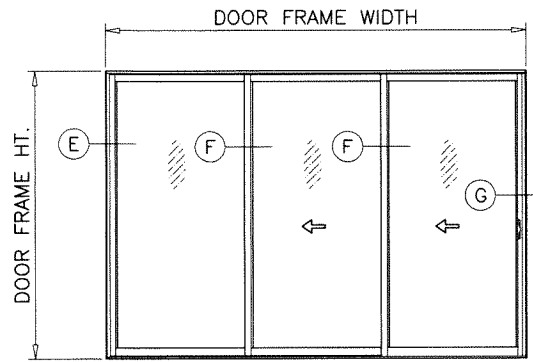


FL #22645

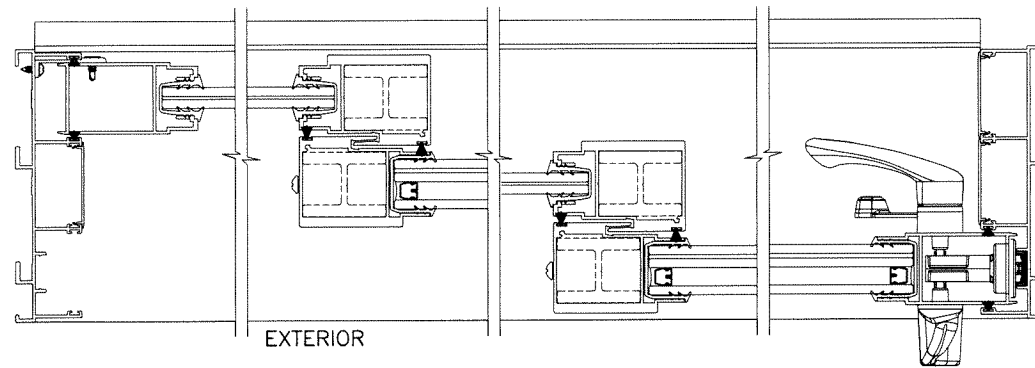
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
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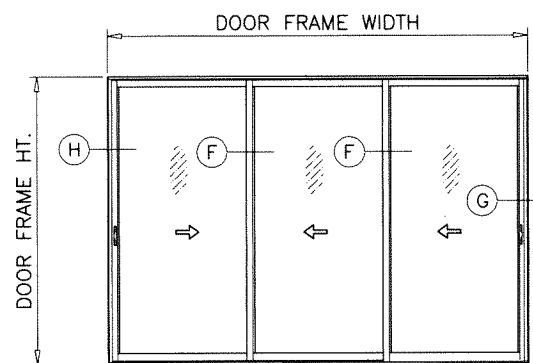
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				chk. by:	sheet 8 of 23



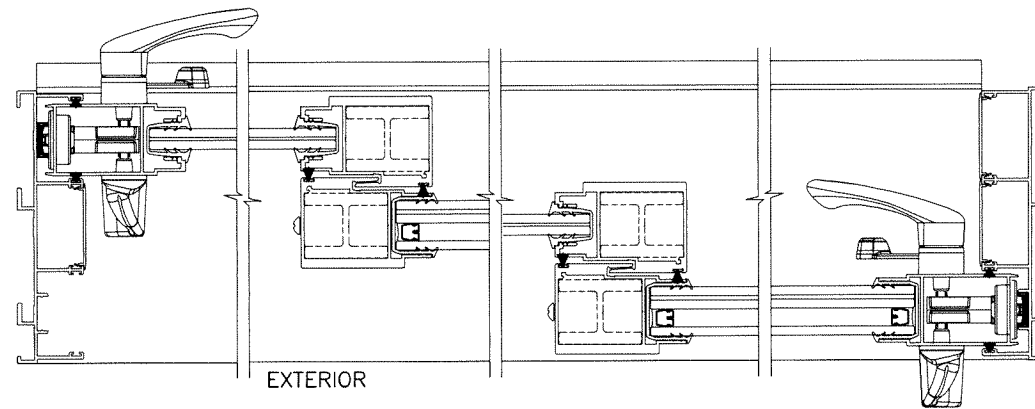
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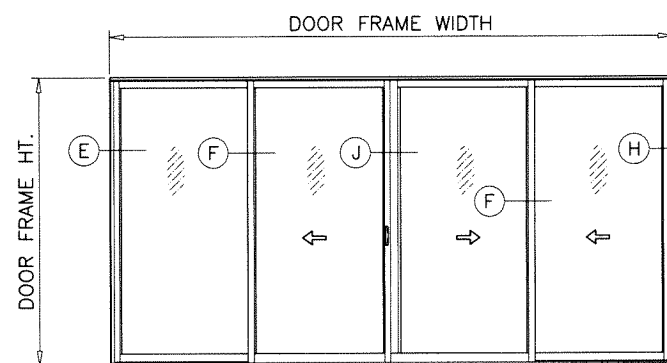
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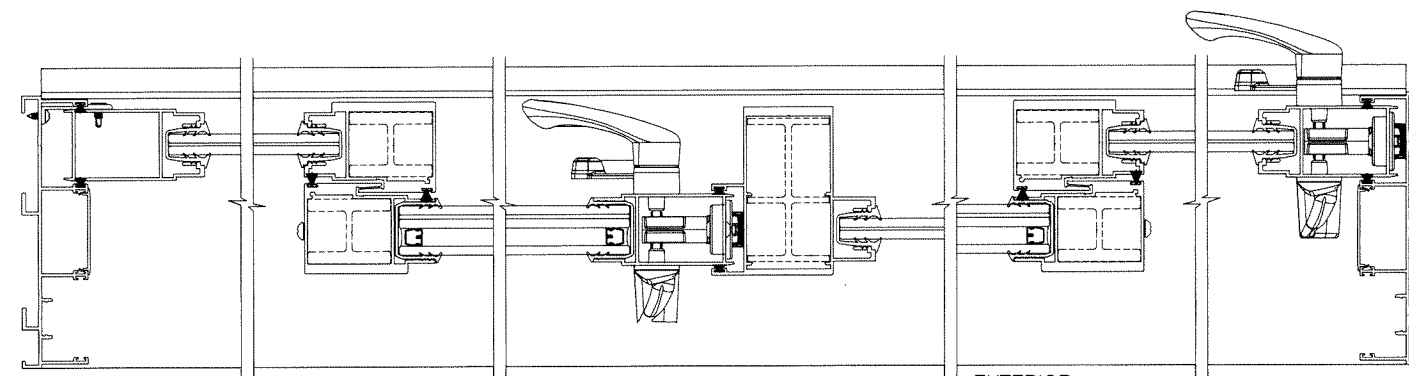
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EXTERIOR



OX-XX (SHOWN)
XX-XO
OX-XO
XX-XX



EXTERIOR

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INTERLOCK AND ASTRAGAL REINFORCING AS REQD.
SEE SHEET 5 FOR LOAD CAPACITY WITH OR WITHOUT
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APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS

Sealed: 7/22/2026

FL #22645



ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.)

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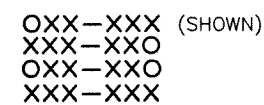
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\22-16F-ES

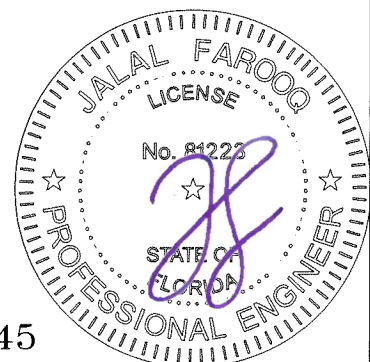
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dr. by: TARIQ
chk. by:

drawing no.
22-16F
sheet 9 of 23

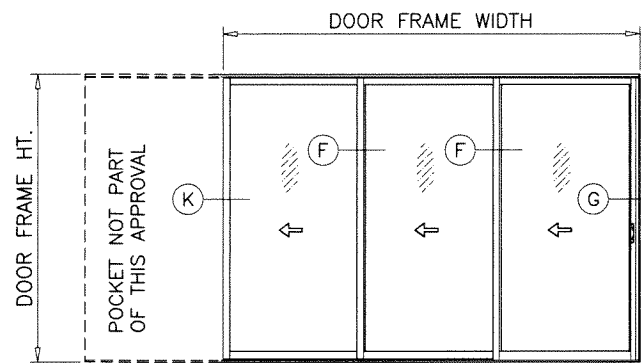


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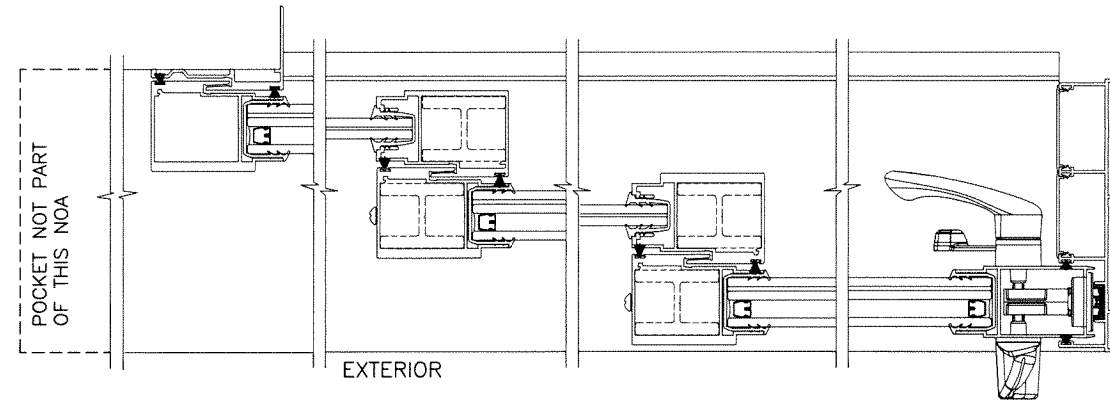


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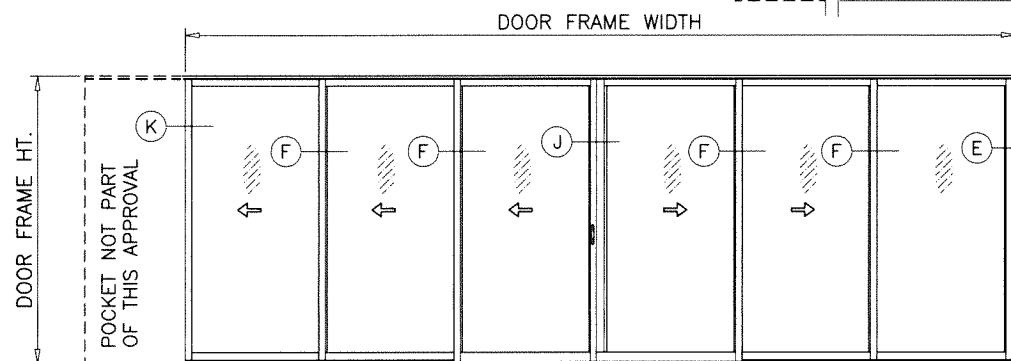
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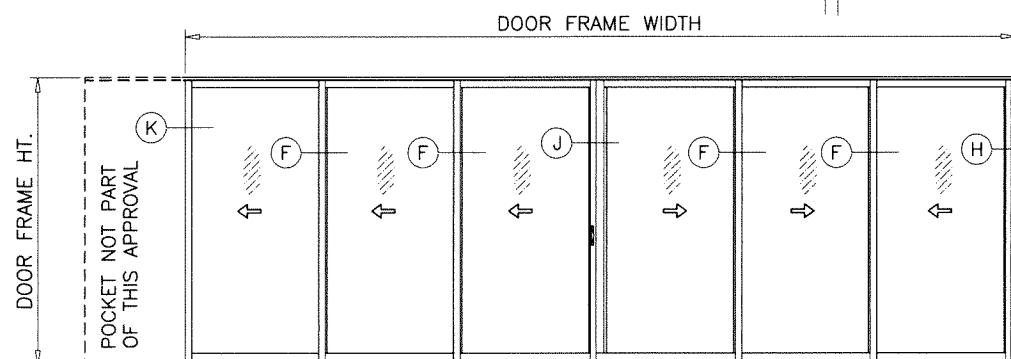
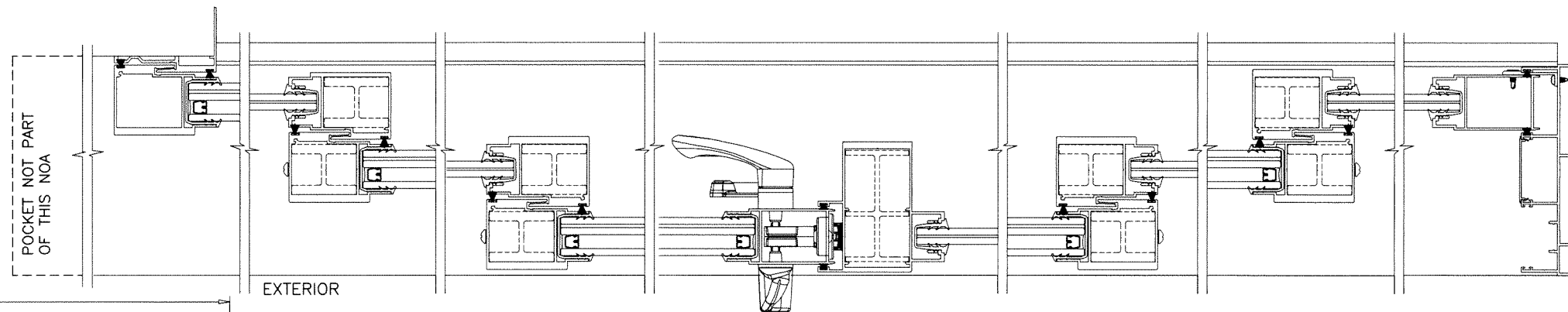
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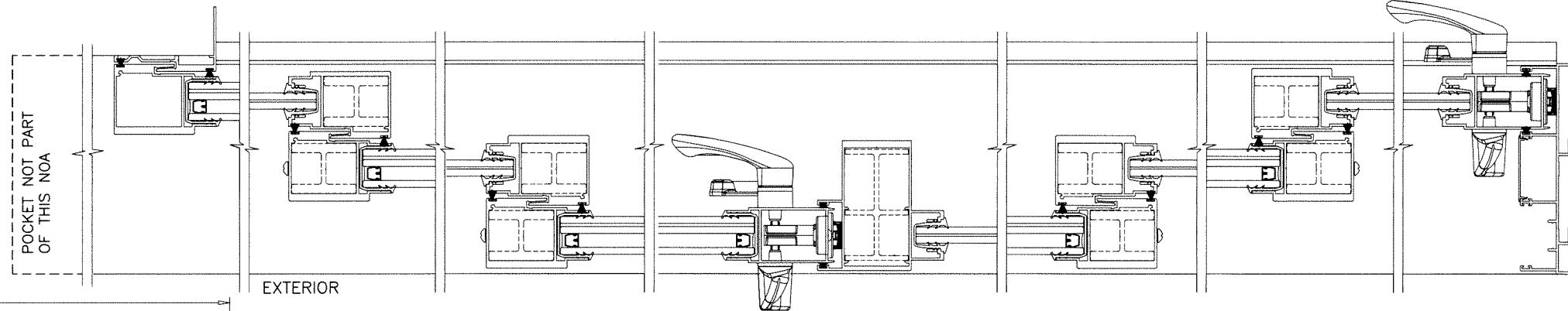
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PXXX-XXO (SHOWN)
OXX-XXXXP



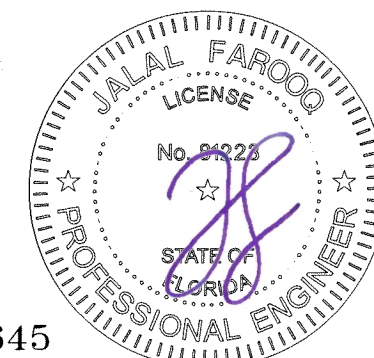
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XXX-XXXXP
PXXX-XXXXP



APPROVED CONFIGURATIONS
POCKETED DOORS
THREE (3) TRACKS

Sealed: 7/22/2026

FL #22645



af c
AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173 (C.A.N. 3538)
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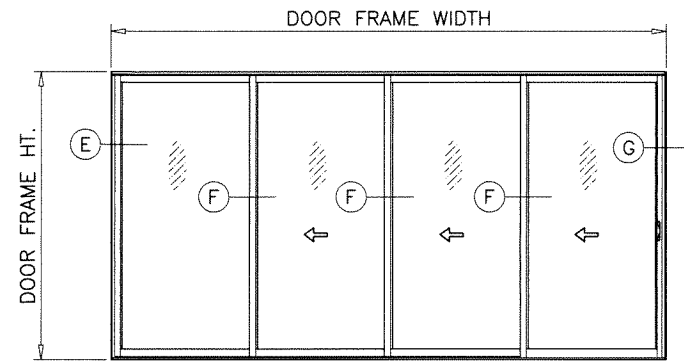
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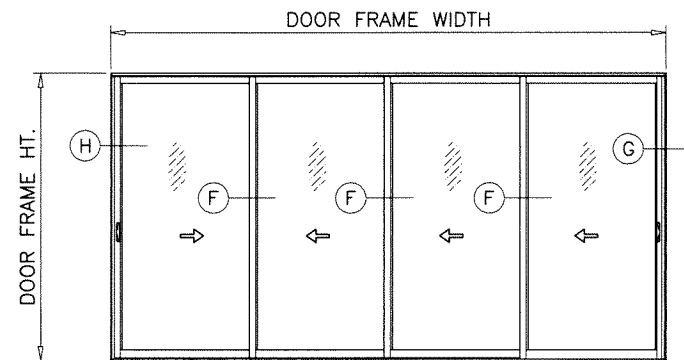
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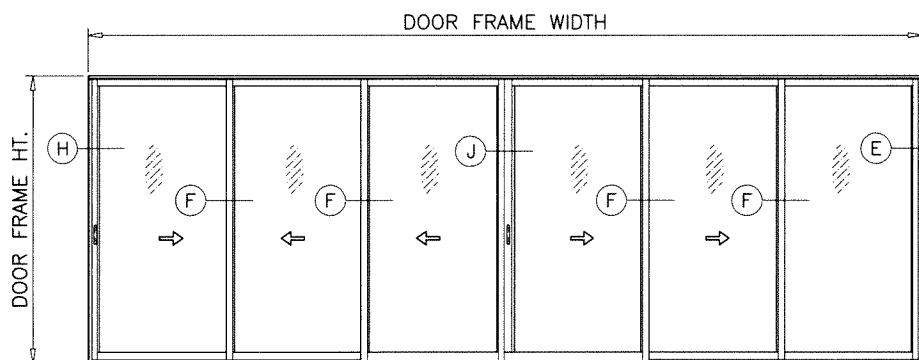
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sheet 10 of 23



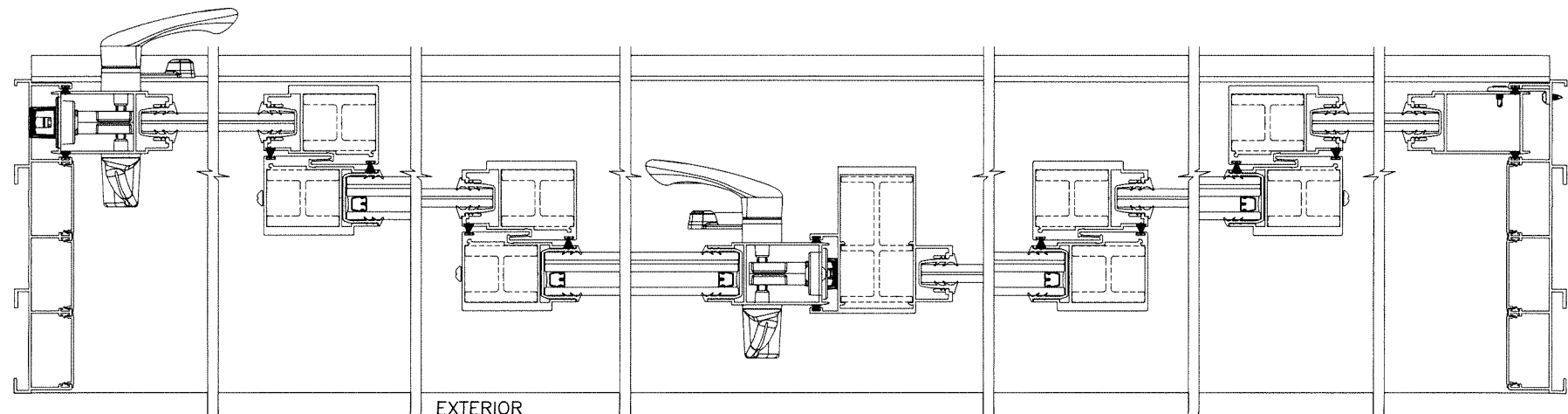
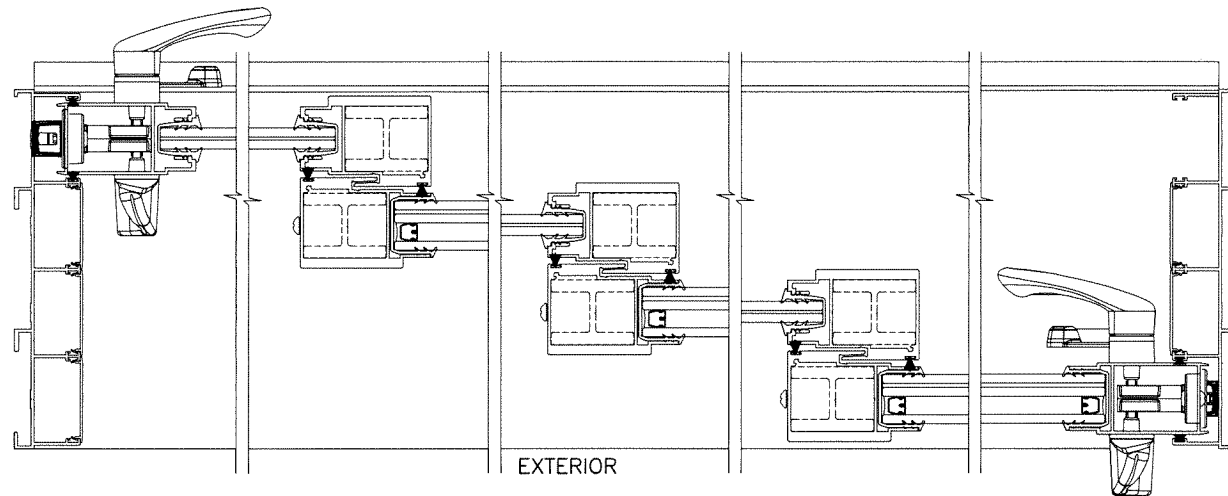
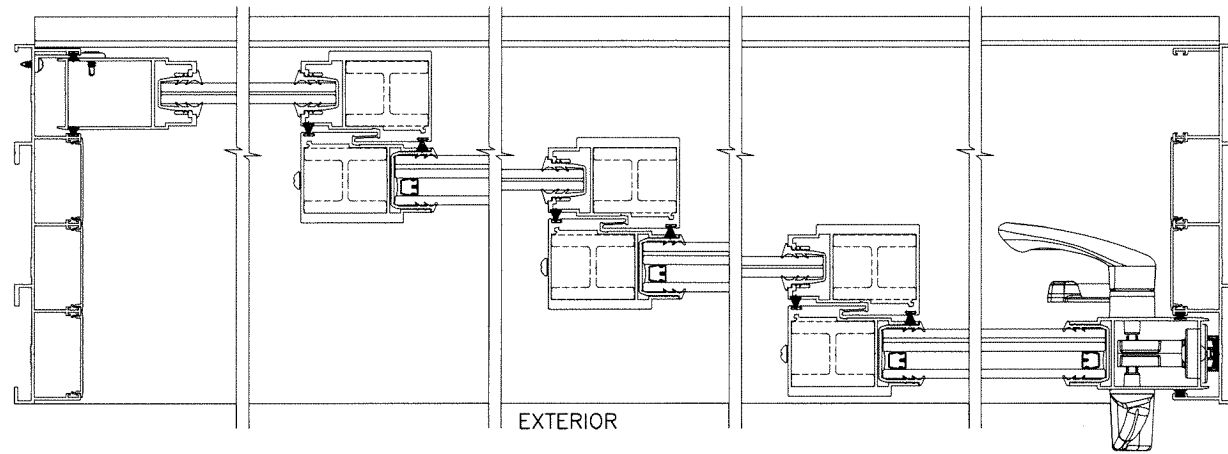
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XXXX (SHOWN)



XXX-XXO (SHOWN)
OXX-XXX
OXX-XXO
XXX-XXX



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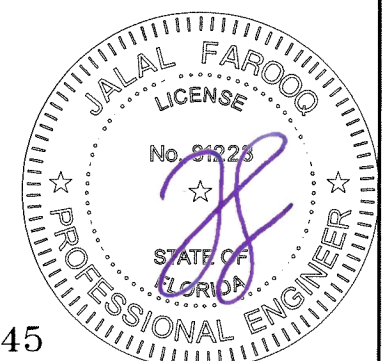
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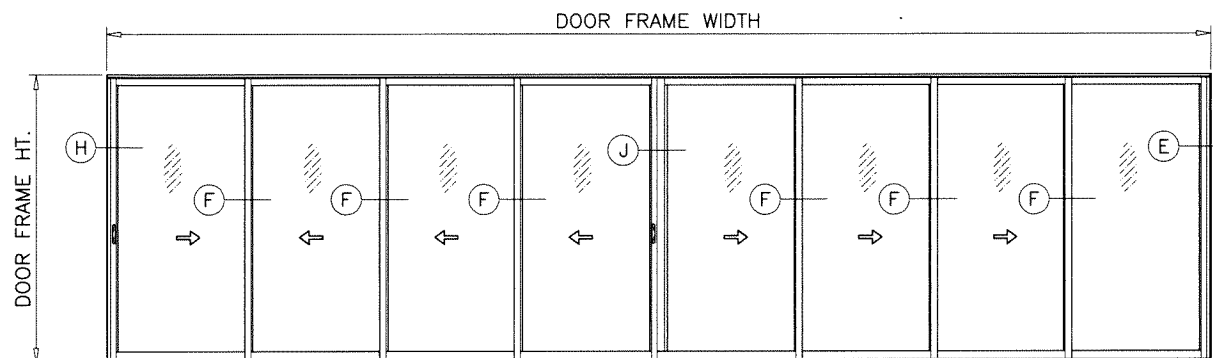
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sheet 11 of 23			

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
FOUR (4) TRACKS

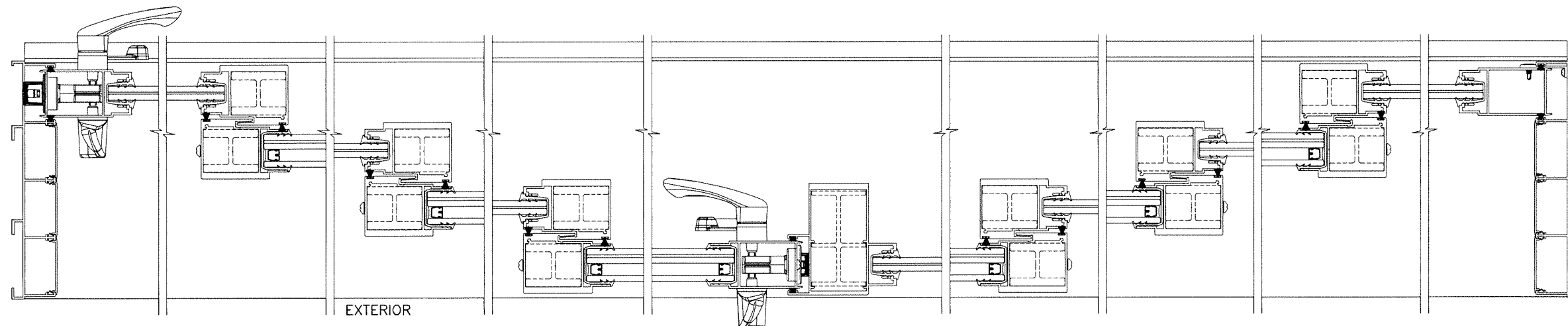
Sealed: 7/22/2026

FL #22645





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 OXXX-XXXX
 XXXX-XXXX



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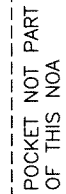
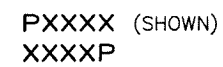
APPROVED CONFIGURATIONS
 NON-POCKETED DOORS
 FOUR (4) TRACKS

Sealed: 7/22/2026

FL #22645



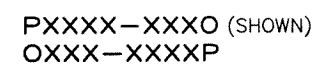
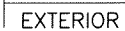
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ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158																					
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drawing no. 22-16F sheet 11.1 of 23																					



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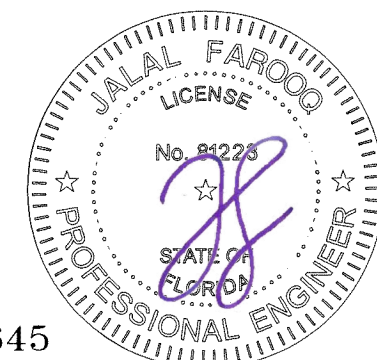
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APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

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FL #22645



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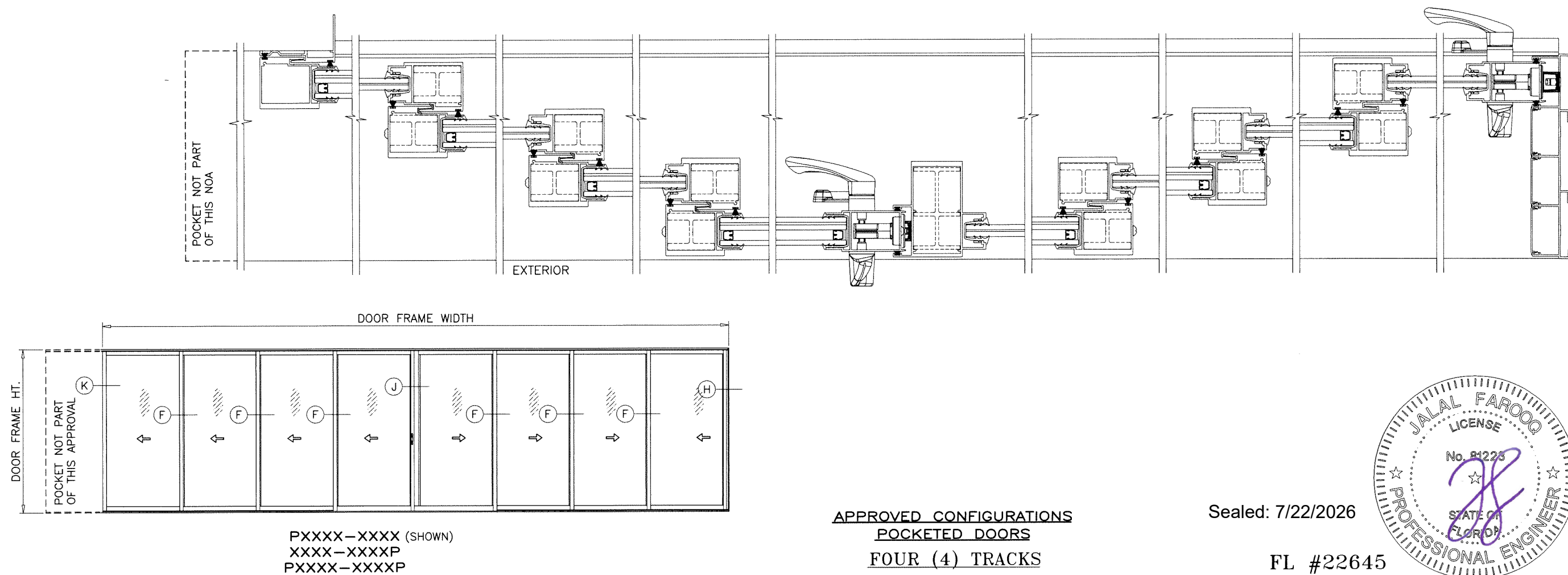
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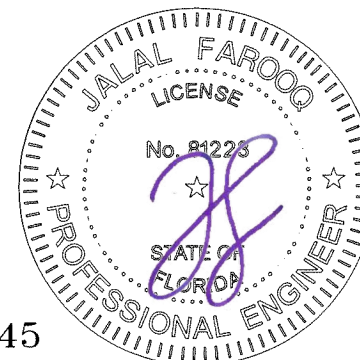
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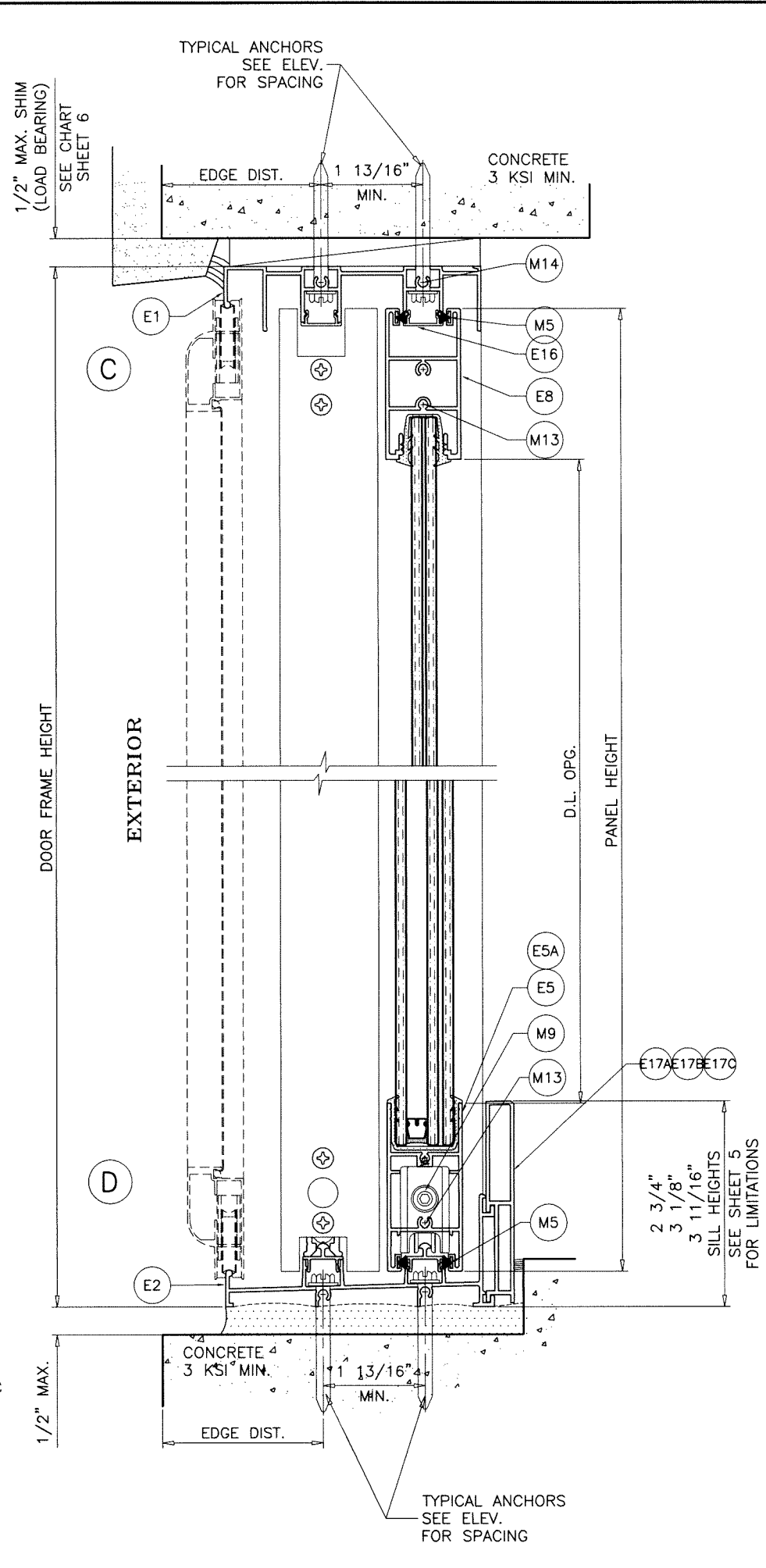
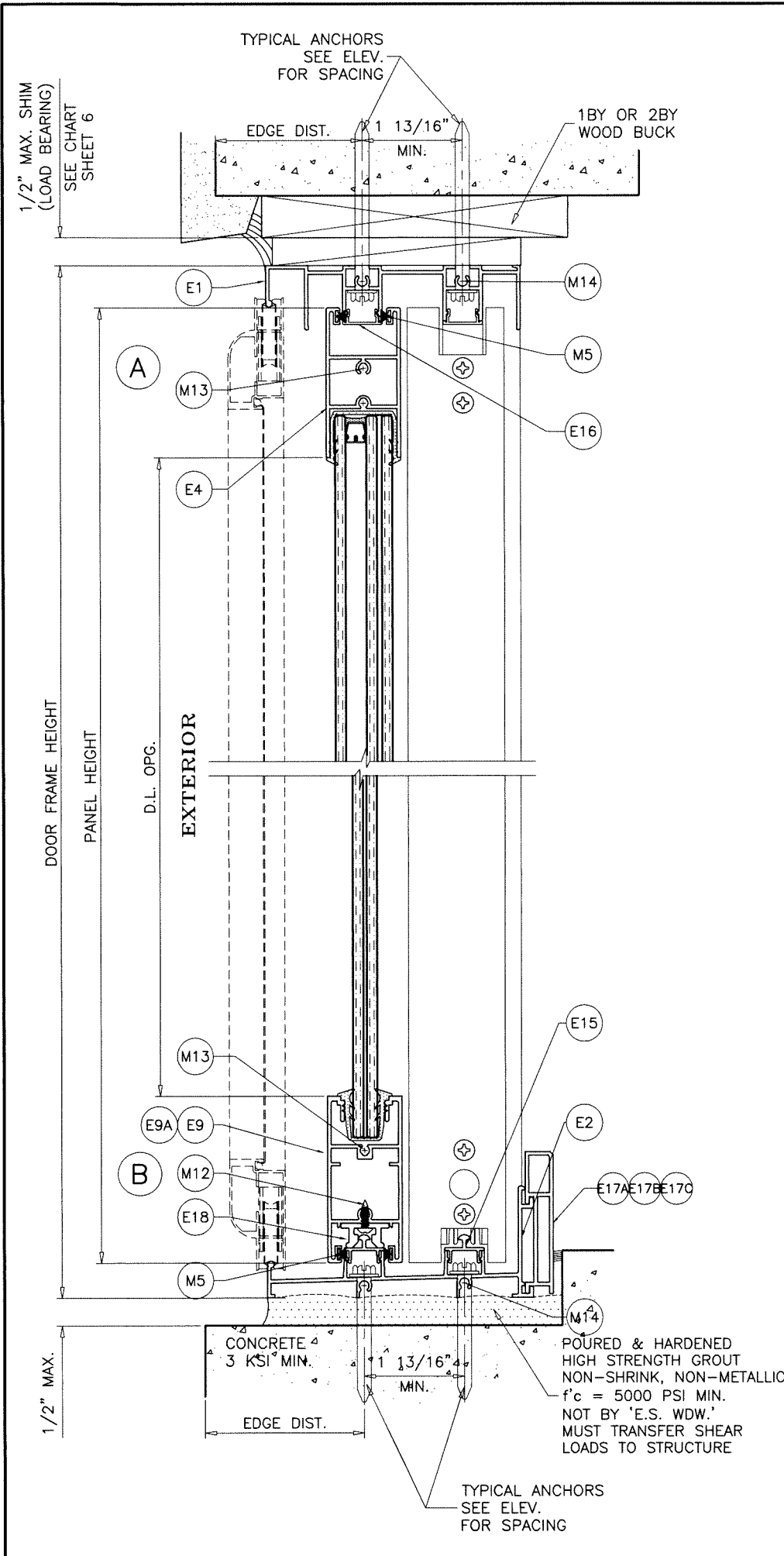
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chk. by:			
drawing no. 22-16F			
sheet 12 of 23			



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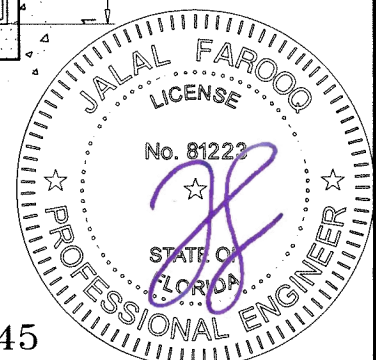
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scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
22-16F
sheet 14 of 23

Sealed: 7/22/2026

FL #22645



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

AT JAMBS

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR FILLED BLOCK
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

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

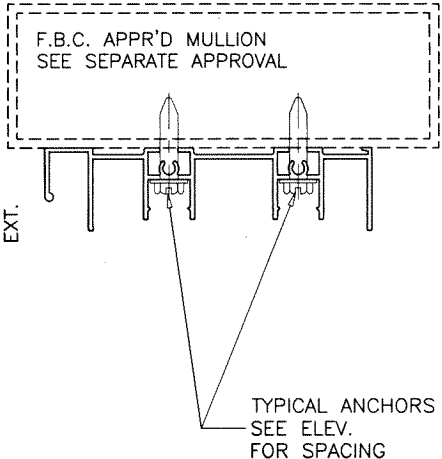
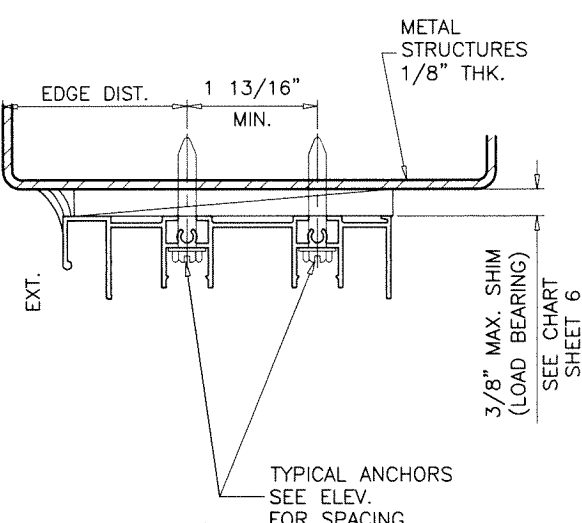
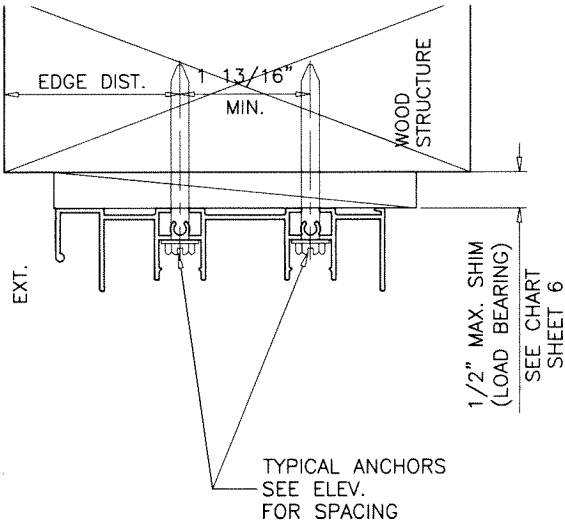
TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

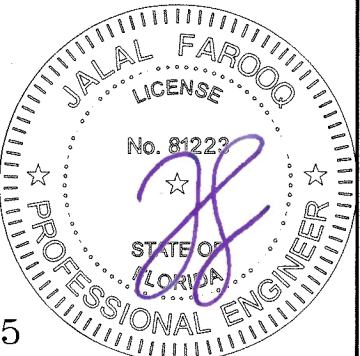
INTO CONCRETE AND MASONRY = 1-1/2" MIN. (AT HEAD/JAMBS)
2-1/2" MIN. (AT SILL)

INTO WOOD STRUCTURE = 1" 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.



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



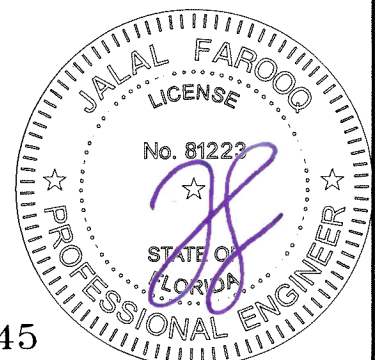
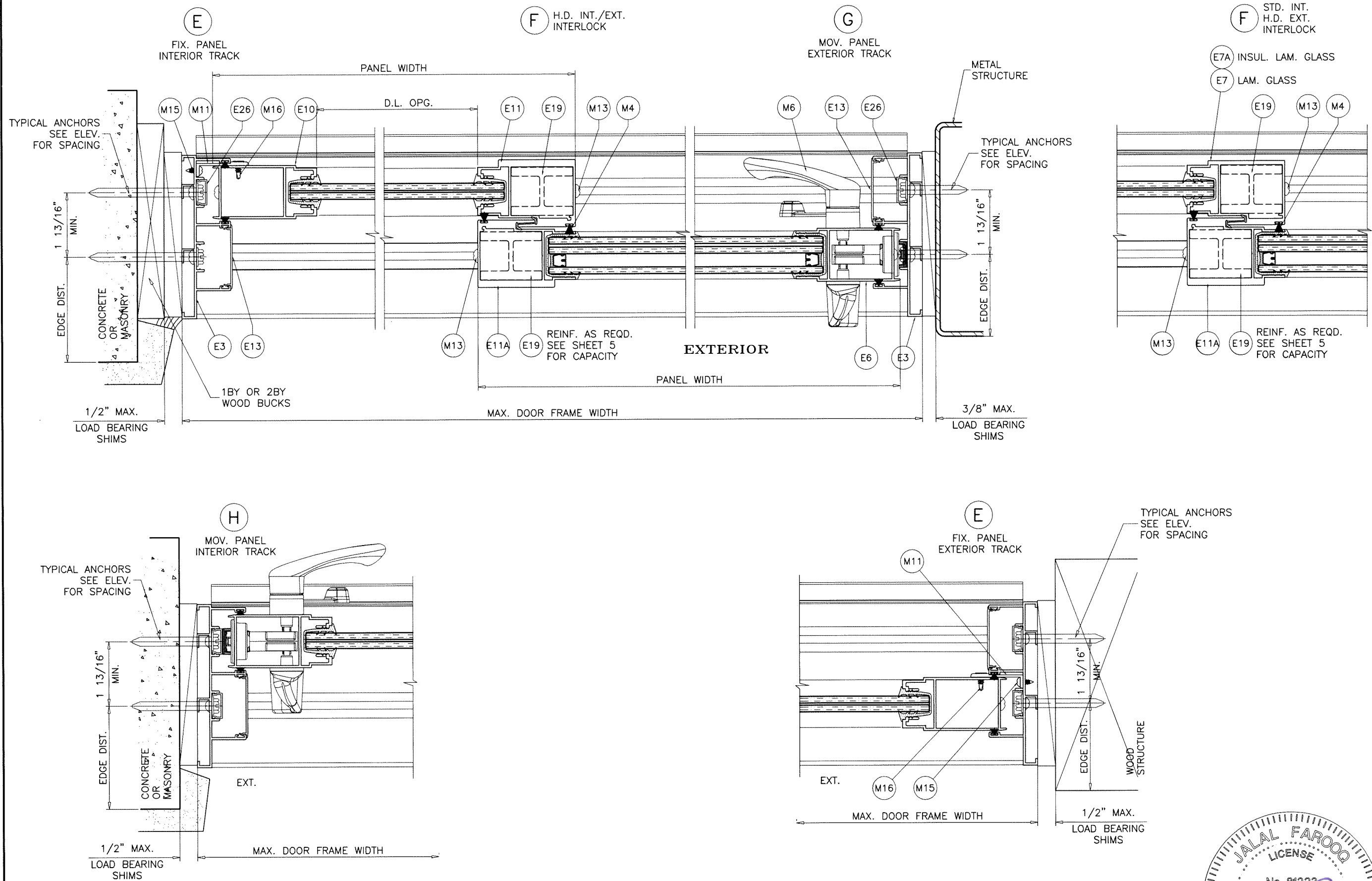
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FL #22645

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 22-16F-ES

ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no date by description	



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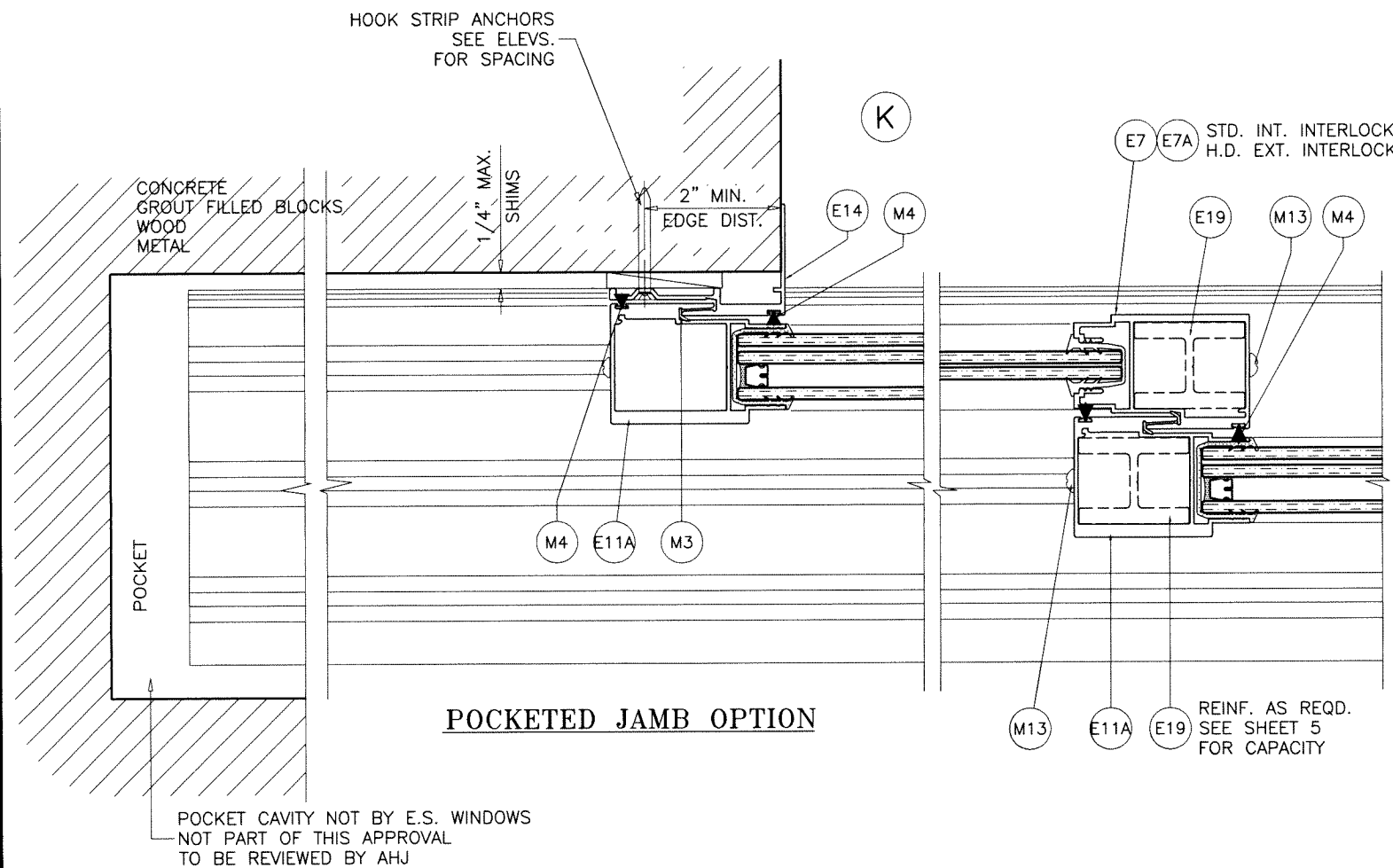
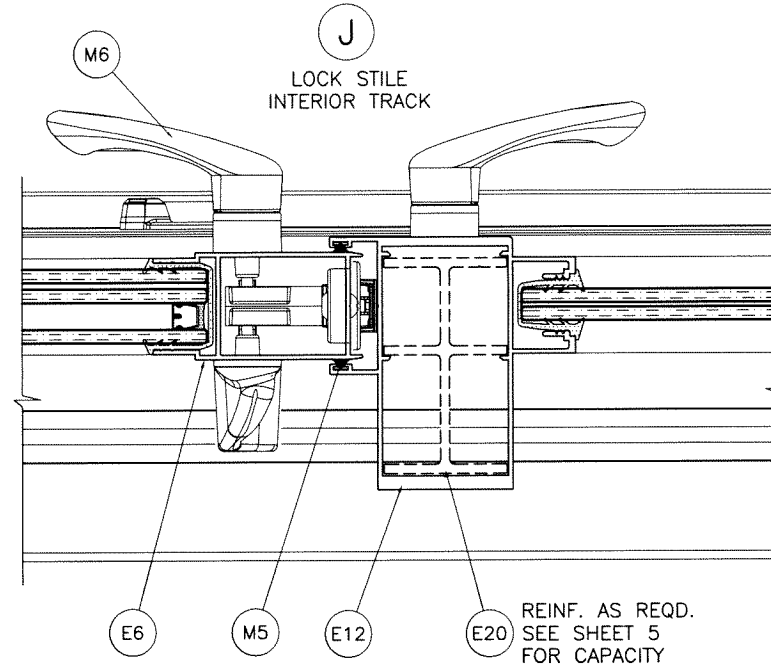
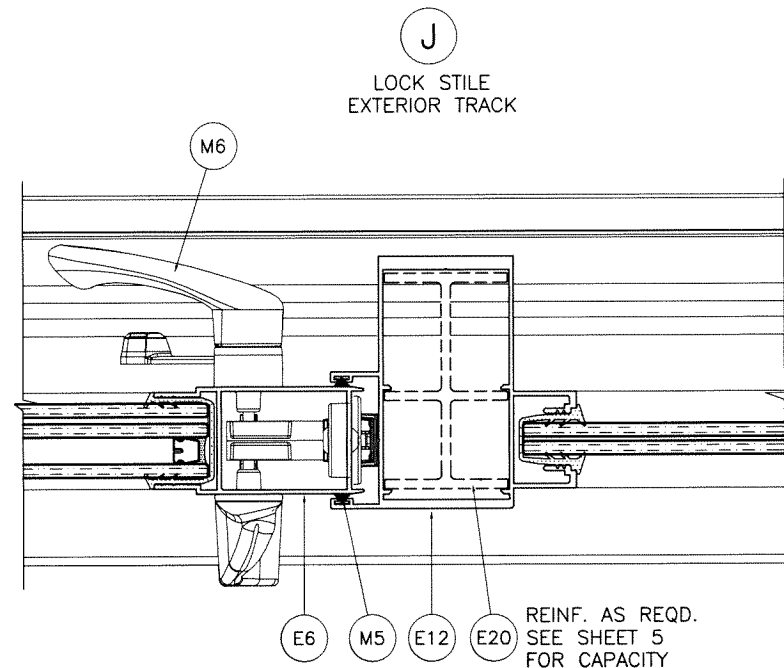
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date: 05-05-22
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dr. by: TARIQ
chk. by:

revisions:

no	date	description

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22-16F
sheet 16 of 23



- HOOK STRIP ANCHORS:** SEE ELEV. FOR SPACING
- TYPE 'A'—** 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS
- TYPE 'B'—** #14 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
- TYPE 'C'—** #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 5/32" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

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



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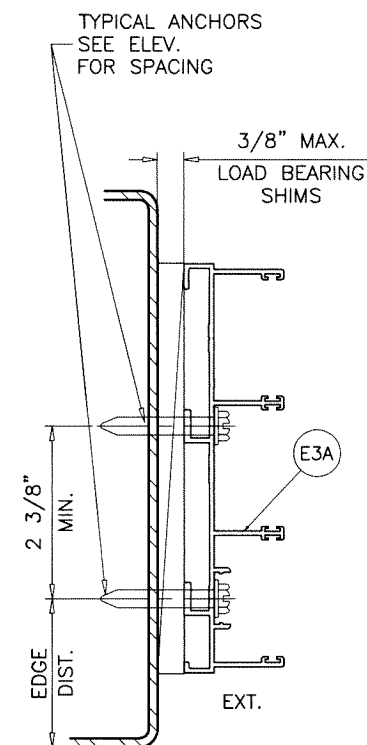
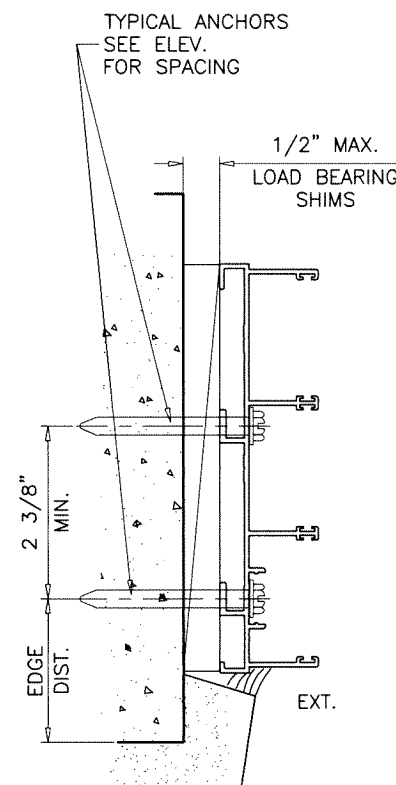
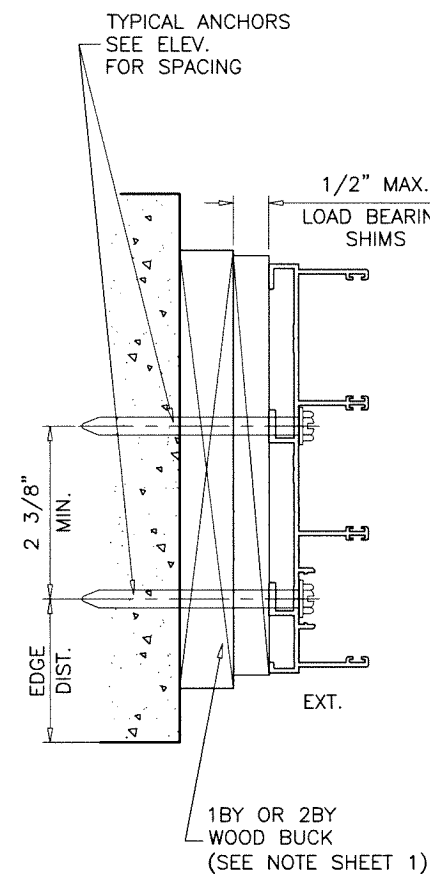
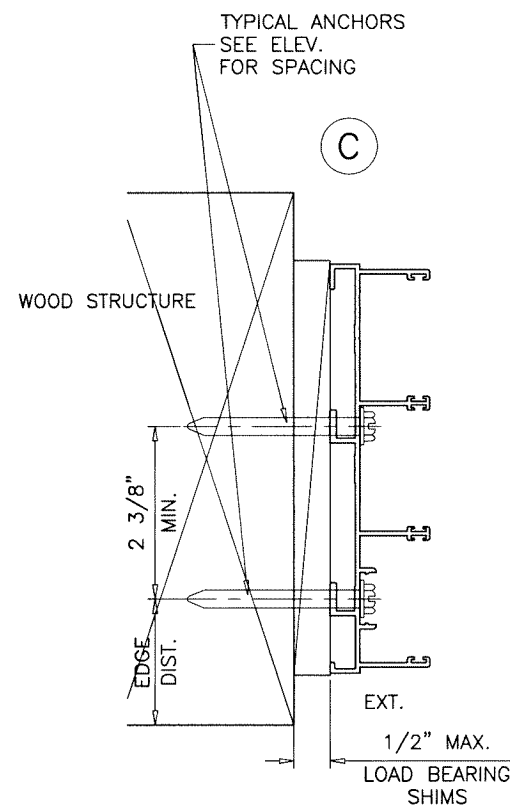
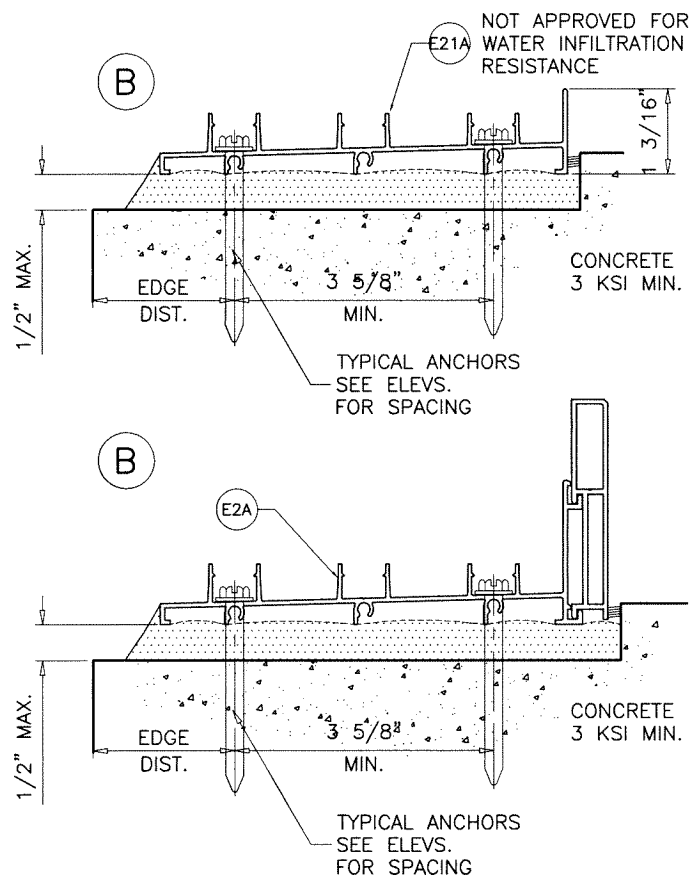
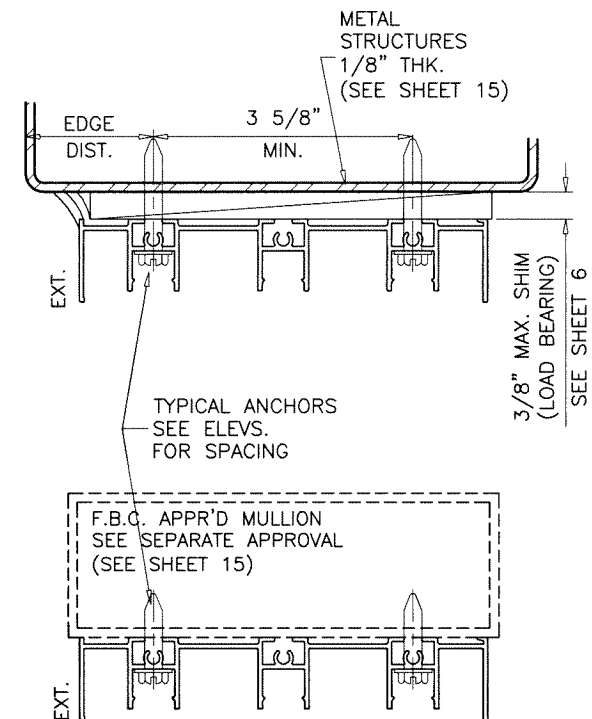
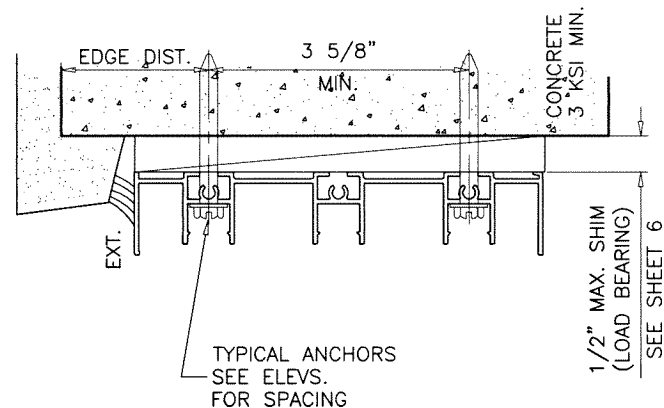
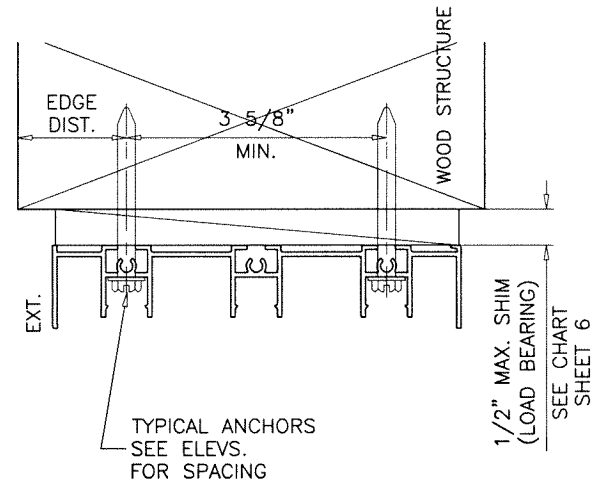
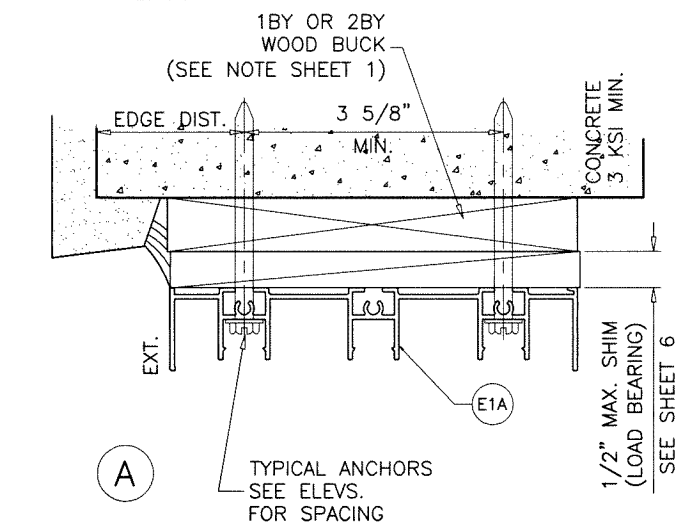
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drawing no.

22-16F

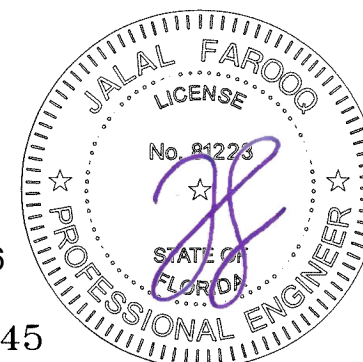
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3 TRACK FRAMES
ANCHOR LOCATIONS

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FL #22645



ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.)

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MIAMI, FL. 33142

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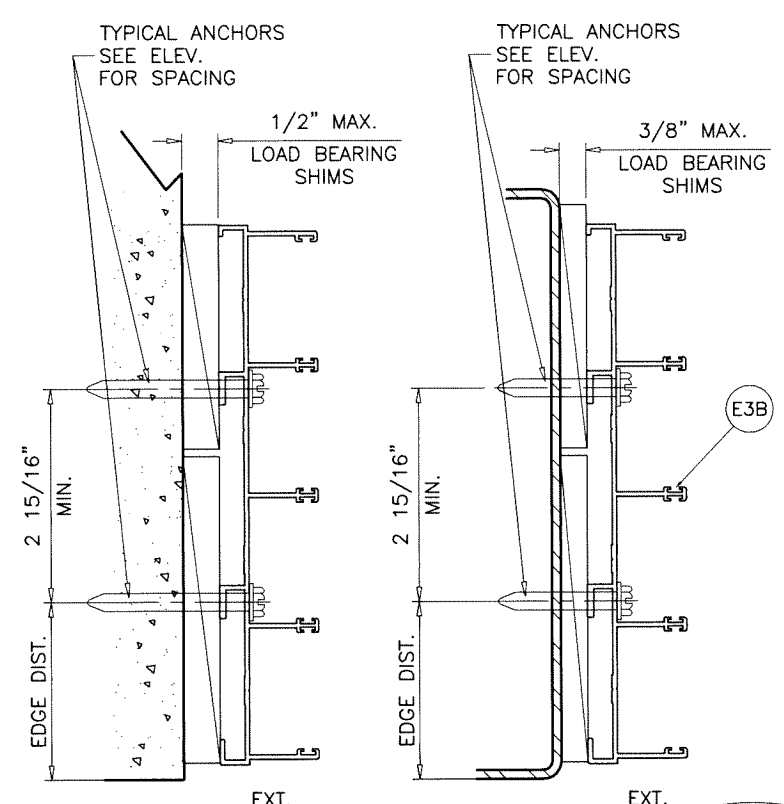
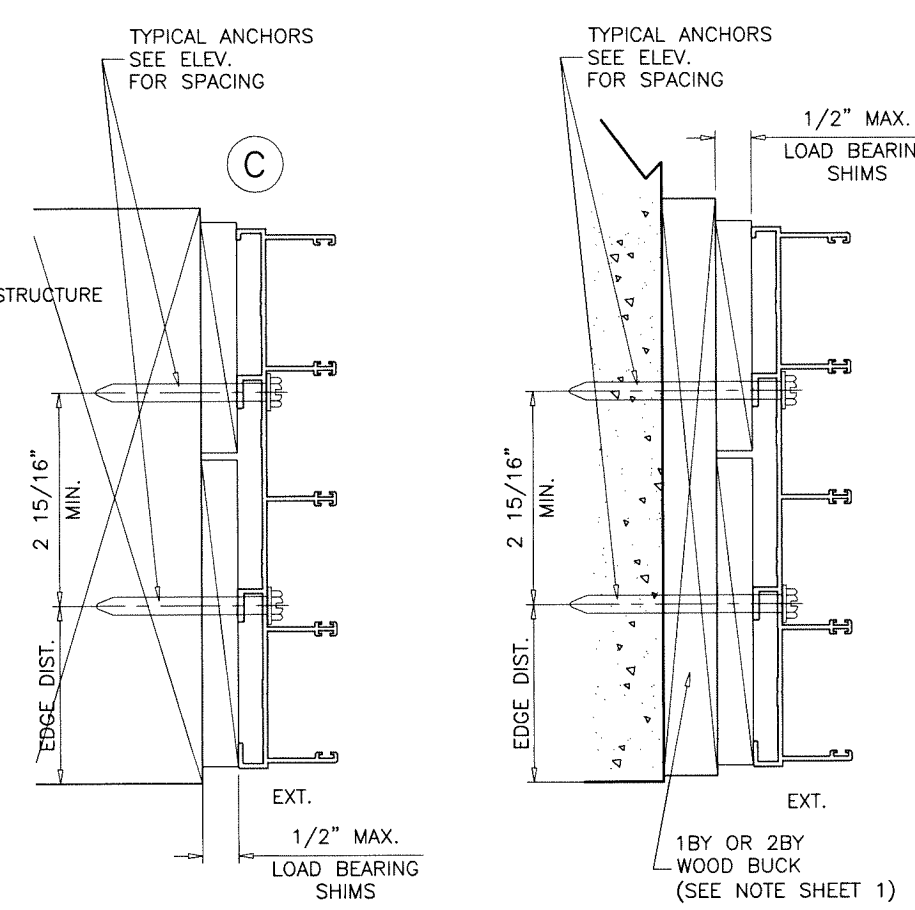
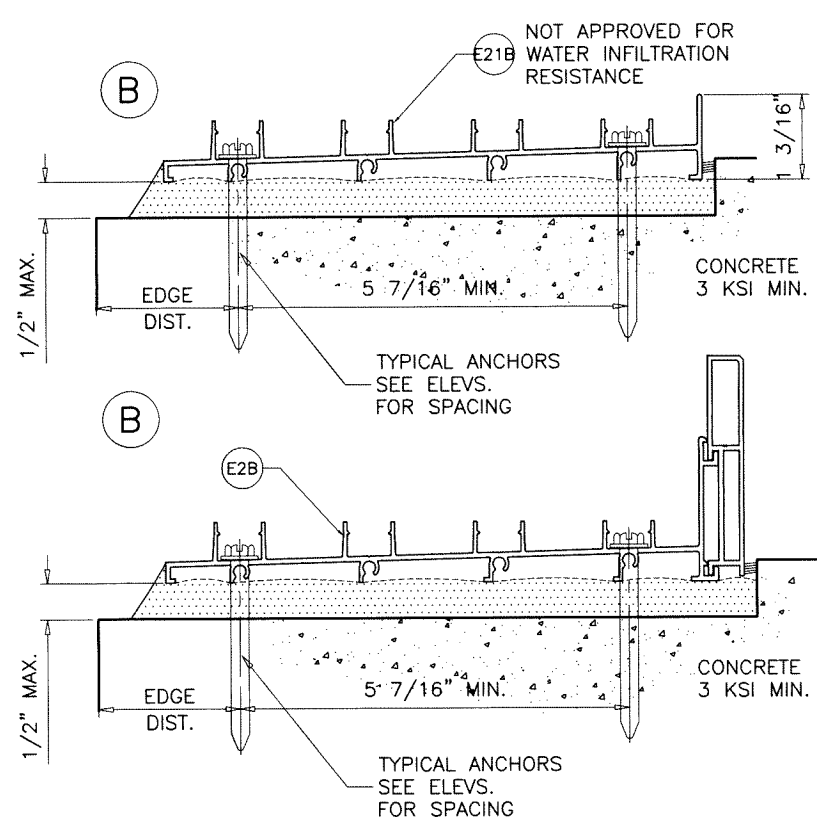
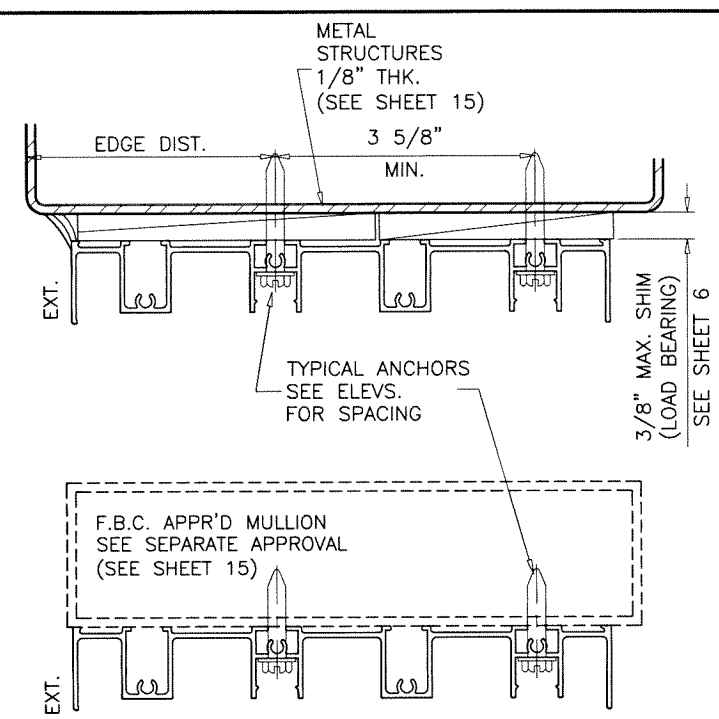
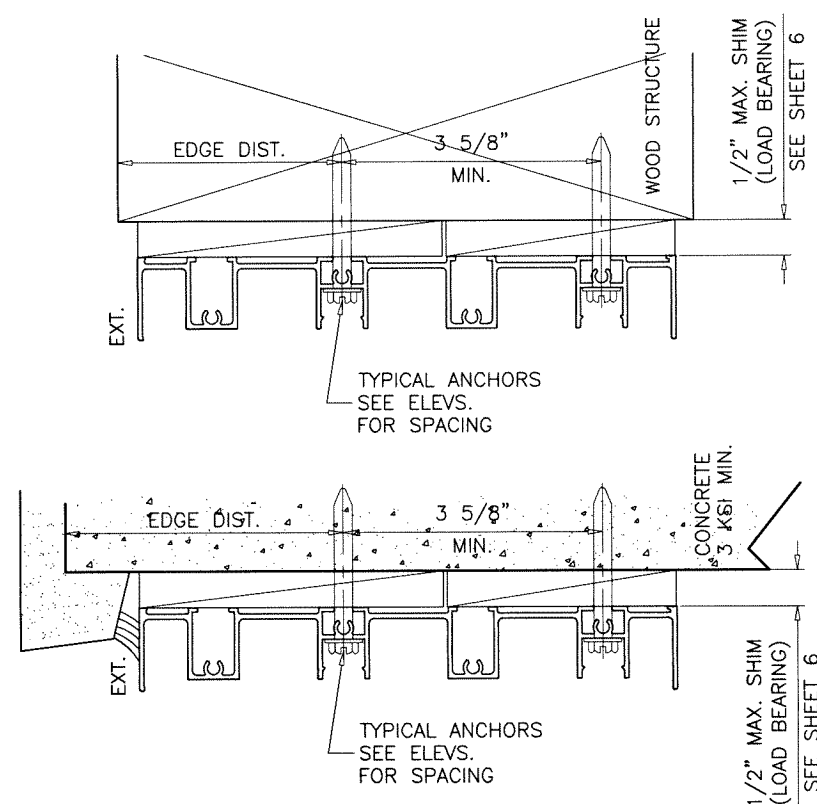
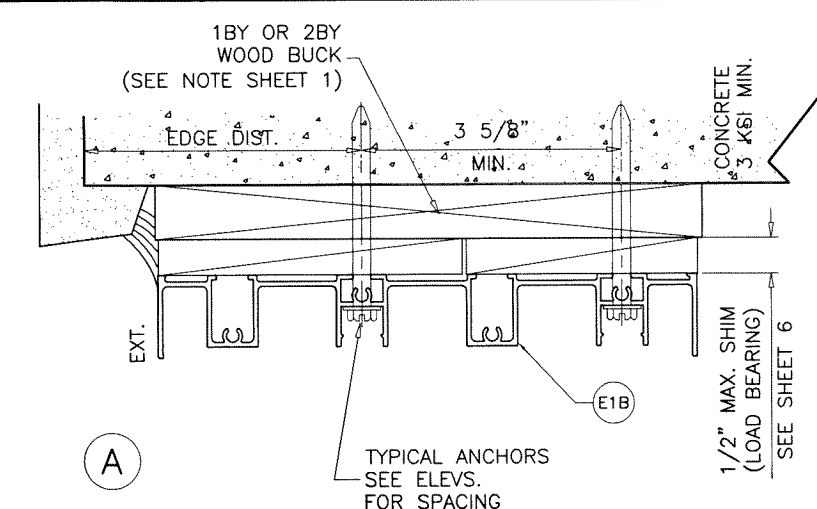
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL\22-16F-ES

revisions:		by description	
no	date		

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dr. by: TARIO
chk. by:

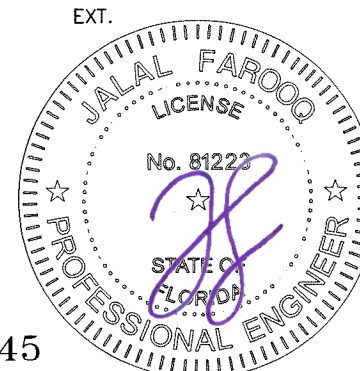
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sheet 18 of 23



4 TRACK FRAMES
ANCHOR LOCATIONS

Sealed: 7/22/2026

FL #22645



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MIAMI, FLORIDA 33173
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ES-EL400-10 ALUM SLIDING GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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sheet 19 of 23				

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL400-001	1	FRAME HEAD (2 TRACK)	6063-T6	-
E1A	ES-EL400-201	AS REQD.	FRAME HEAD (3 TRACK)	6063-T6	-
E1B	ES-EL400-205	AS REQD.	FRAME HEAD (4 TRACK)	6063-T6	-
E2	ES-EL400-002	1	FRAME SILL (2 TRACK)	6063-T6	-
E2A	ES-EL400-202	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E2B	ES-EL400-206	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E3	ES-EL400-003	2	FRAME JAMB (2 TRACK)	6063-T6	-
E3A	ES-EL400-203	AS REQD.	FRAME JAMB (3 TRACK)	6063-T6	-
E3B	ES-EL400-207	AS REQD.	FRAME JAMB (4 TRACK)	6063-T6	-
E4	ES-EL400-004	1/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5	ES-EL400-005	1/ PANEL	BOTTOM RAIL (STANDARD) (INSUL. LAM. GLASS)	6063-T6	-
E5A	ES-EL400-410A	1/ PANEL	BOTTOM RAIL (HI-RISE) (INSUL. LAM. GLASS)	6063-T6	-
E6	ES-EL400-006	AS REQD.	JAMB STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-EL400-012	AS REQD.	STD. INTERIOR INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E7A	ES-EL400-007	AS REQD.	STD. INTERIOR INTERLOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E8	ES-EL400-009	1/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
E9	ES-EL400-010	1/ PANEL	BOTTOM RAIL (STANDARD) (LAM. GLASS)	6063-T6	-
E9A	ES-EL400-409A	1/ PANEL	BOTTOM RAIL (HI-RISE) (LAM. GLASS)	6063-T6	-
E10	ES-EL400-011	AS REQD.	JAMB STILE (LAM. GLASS)	6063-T6	-
E11	ES-EL400-030	AS REQD.	H.D. INT./EXT. INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E11A	ES-EL400-031	AS REQD.	H.D. INT./EXT. INTERLOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E12	ES-EL400-028	AS REQD.	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E12A	ES-EL400-029	AS REQD.	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13	ES-EL400-014	AS REQD.	JAMB COVER	6063-T5	-
E14	ES-EL400-015	AS REQD.	POCKET JAMB	6063-T6	-
E15	ES-EL400-016	AS REQD.	SILL TRACK	6063-T6	-
E16	ES-EL400-017	AS REQD.	HEAD COVER	6063-T5	-
E17A	ES-EL400-018	AS REQD.	SILL RISER	6063-T6	-
E17B	ES-2020-007	AS REQD.	ALT. SILL RISER	6063-T6	-
E17C	ES-2020-041	AS REQD.	ALT. SILL RISER	6063-T6	-
E18	ES-EL400-020	AS REQD.	FIXED PANEL BOTTOM GUIDE	6063-T6	-
E19	ES-EL400-032	AS REQD.	INTERLOCK REINFORCEMENT	6005-T5	-
E20	ES-EL400-034	AS REQD.	ASTRAGAL REINFORCEMENT	6005-T5	-
E21	ES-EL400-401	1	FRAME SILL (2 TRACK)	6063-T6	-
E21A	ES-EL400-403	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E21B	ES-EL400-404	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
M1	ES-EL400-G01	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M2	ES-EL400-G02	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M3	ES2020-G04	AS REQD.	INTERLOCK BUMPER	PVC	DUROMETER 60±5 SHORE D
M4	W33271NK	AS REQD.	PILE W'STRIPPING (INTERLOCK)	WOOL	-
M5	W33181NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M6	PS01-0014	AS REQD.	DOOR HANDLE	DIE CAST ALUM	TWO POINT HANDLE
M7	PS01-1015	AS REQD.	STRIKE FOR MORTISE LOCK	ST. STEEL	-
M8	PS01-1036	AS REQD.	MORTISE 2 POINT LOCK	ST. STEEL	-
M9	GT-R34/3-01-A	2/ PANEL	ROLLER ASSEMBLY	ZAMAK	-
M10	6844.1	AS REQD.	BUMPER	ALUM/NYLON	-
M11	ES-EL400-FPI SL	2/ PANEL	FIX. PANEL CLIPS, AT 12" FROM TOP & BOTTOM	6063-T6	-
M12	#8 X 3/4"	AS REQD.	KEEPER FASTENERS	ST. STEEL	P.H. SMS
M13	#10 X 1-1/4"	AS REQD.	PANEL ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M14	#10 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M15	#6 X 3/8"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	P.H. SMS
M16	#8 X 1/2"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M18	#10 X 1/2"	AS REQD.	ROLLER FASTENERS	ST. STEEL	P.H. SMS
M19	#10 X 1"	AS REQD.	LOCK INSTALLATION FASTENERS	ST. STEEL	F.H. SMS
M20	#8 X 1/2"	AS REQD.	HANDLE INSTALLATION FASTENERS	ST. STEEL	F.H. SMS

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 1/2" FH SMS (M20)

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1" FH SMS

SURFACE MOUNT METALLIC KEEPER AT 44" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(3) #8 X 3/4" PH SMS (M12)

SEALANT:

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



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FL #22645



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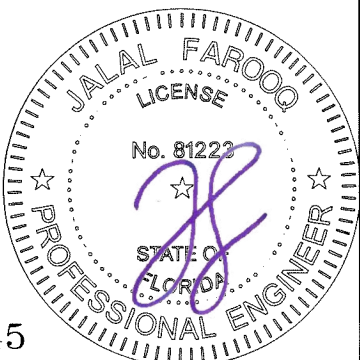
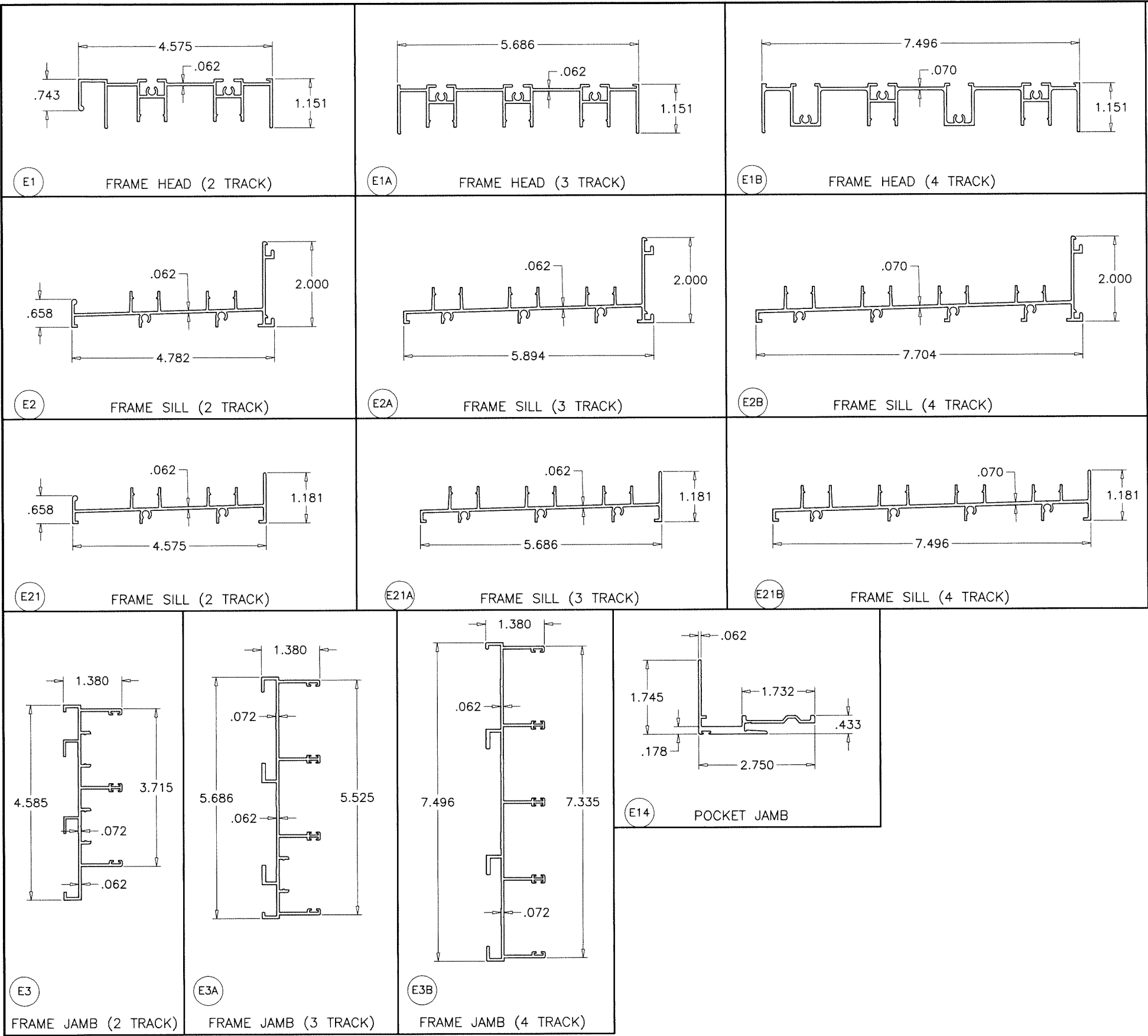
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22-16F

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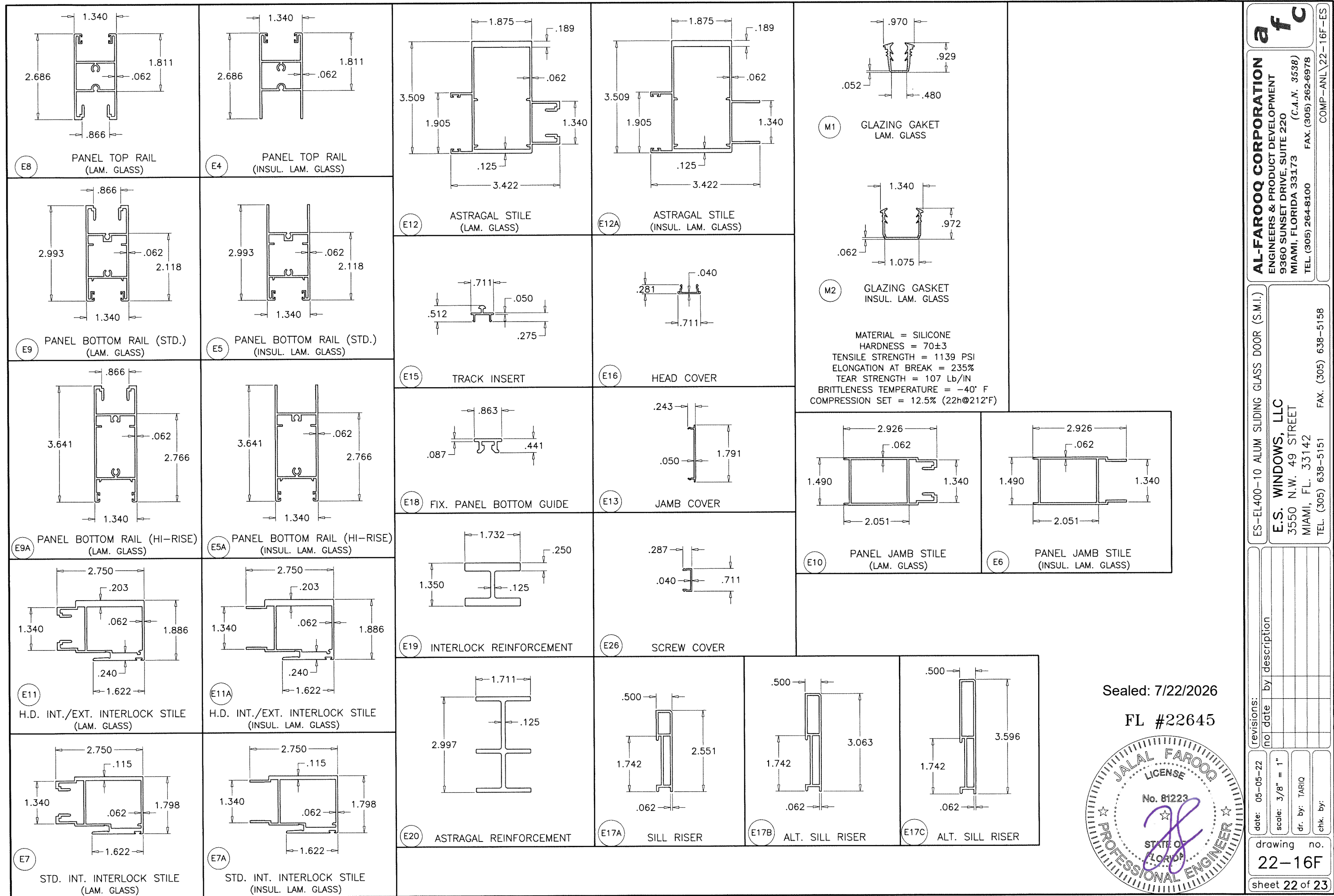
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drawing no.
22-16F
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M1 GLAZING GAKET
LAM. GLASS

M2 GLAZING GASKET
INSUL. LAM. GLASS

MATERIAL = SILICONE
HARDNESS = 70±3
TENSILE STRENGTH = 1139 PSI
ELONGATION AT BREAK = 235%
TEAR STRENGTH = 107 Lb/IN
BRITTLENESS TEMPERATURE = -40° F
COMPRESSION SET = 12.5% (22h@212°F)

E10 PANEL JAMB STILE
(LAM. GLASS)

E6 PANEL JAMB STILE
(INSUL. LAM. GLASS)

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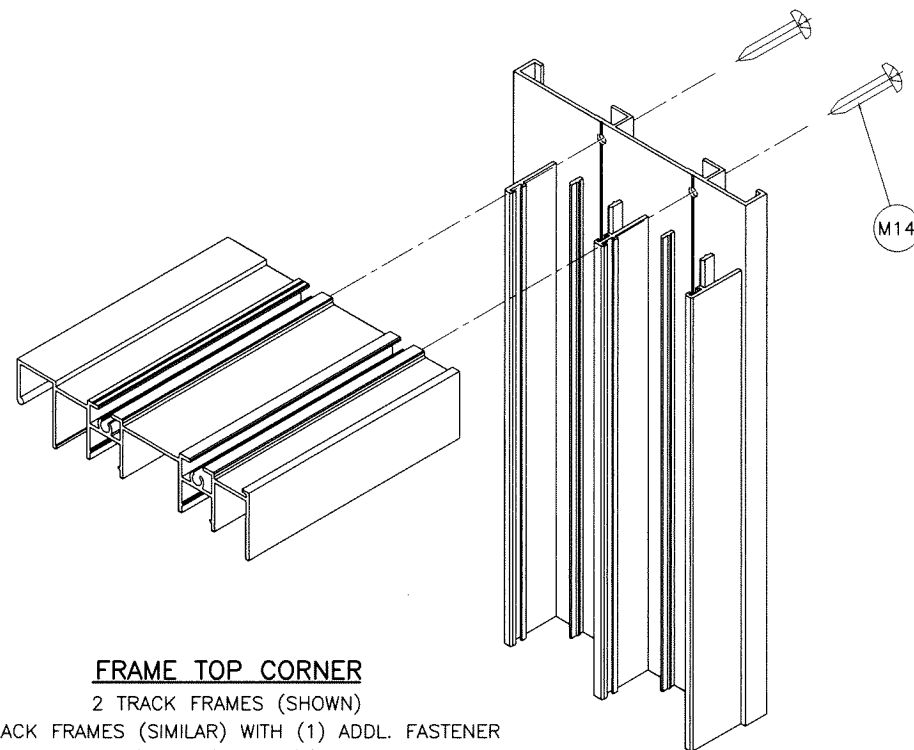
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22-16F
sheet 22 of 23

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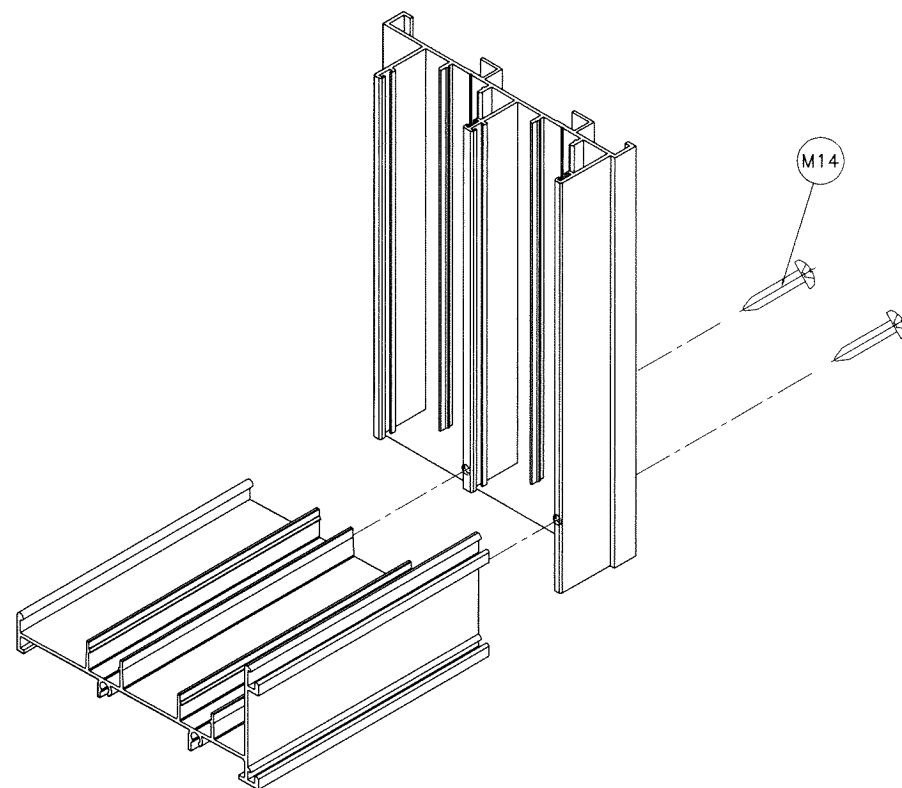


FRAME TOP CORNER

2 TRACK FRAMES (SHOWN)

3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER

4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS

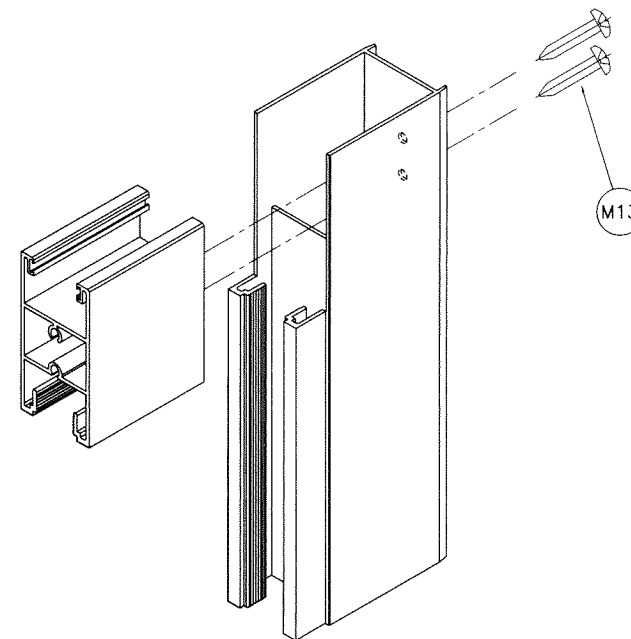


FRAME BOTTOM CORNER

2 TRACK FRAMES (SHOWN)

3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER

4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS



PANEL TOP/BOTTOM CORNER

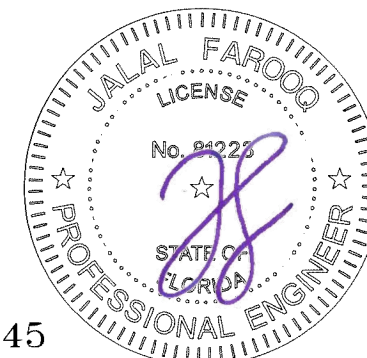
LAM. GLASS RAIL & STILE (SHOWN)

INSUL. LAM. GLASS RAIL & STILE (SIMILAR)

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revisions:
no. date by description

date: 05-05-22

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

22-16F

sheet 23 of 23

COMP-ANL\22-16F-ES