

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 LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

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

SERIES ES-EL400-10
ALUMINUM SLIDING GLASS DOOR

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.

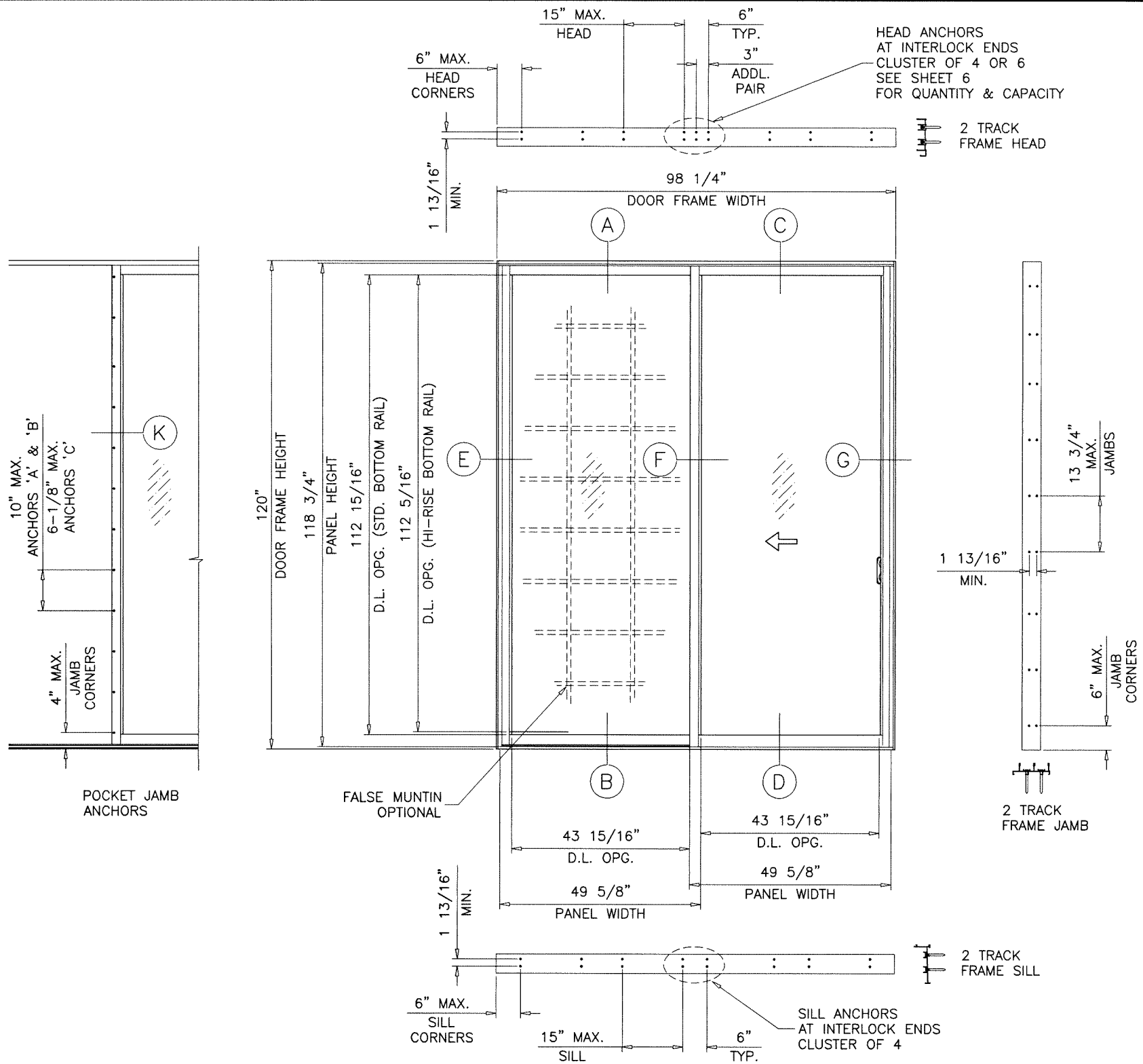
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



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.

- 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.

TYPICAL ELEVATION

OX

Sealed: 12/11/2025

FL #22645



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)

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

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

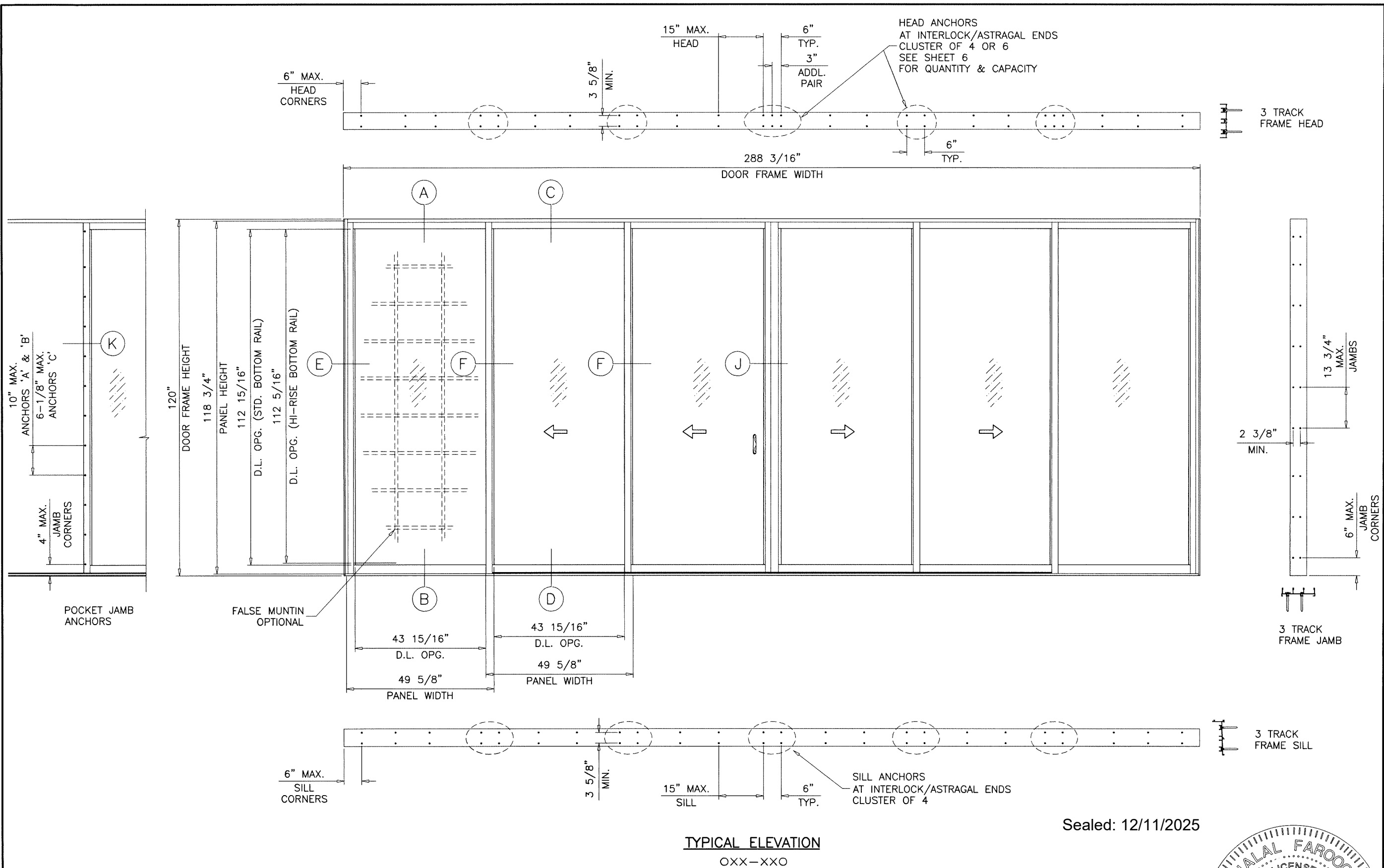
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scale: 3/8"=1'-0"		20-22F	
dr. by: TARIQ		sheet 1 of 23	
chk. by:			
revisions:			
no	date	by	description
C	08.04.21		SILL RISER OPTIONS ADDED
D	07.07.23		UPDATED TO 2023 FBC
E	06.13.25		CORNER DETAIL ADDED
F	08.14.25		NON WATER SILL OPTIONS ADDED
G	11.11.25		HI-RISE BOTTOM RAIL ADDED

COMP-ANL\20-22F-ES



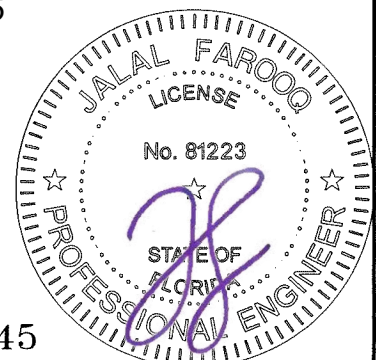
A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top, "No. 81223" is in the center, and "STATE OF FLORIDA" is at the bottom, also separated by two stars. A large, stylized signature in purple ink is written across the center of the seal.

date: 04-01-20	scale: 3/8"=1'-0"	dr. by: TARIQ	chk. by:	
drawing no. 20-22F				
sheet 2 of 23				



TYPICAL ELEVATION
OXX-XXO

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Revisions:	
no	date by description

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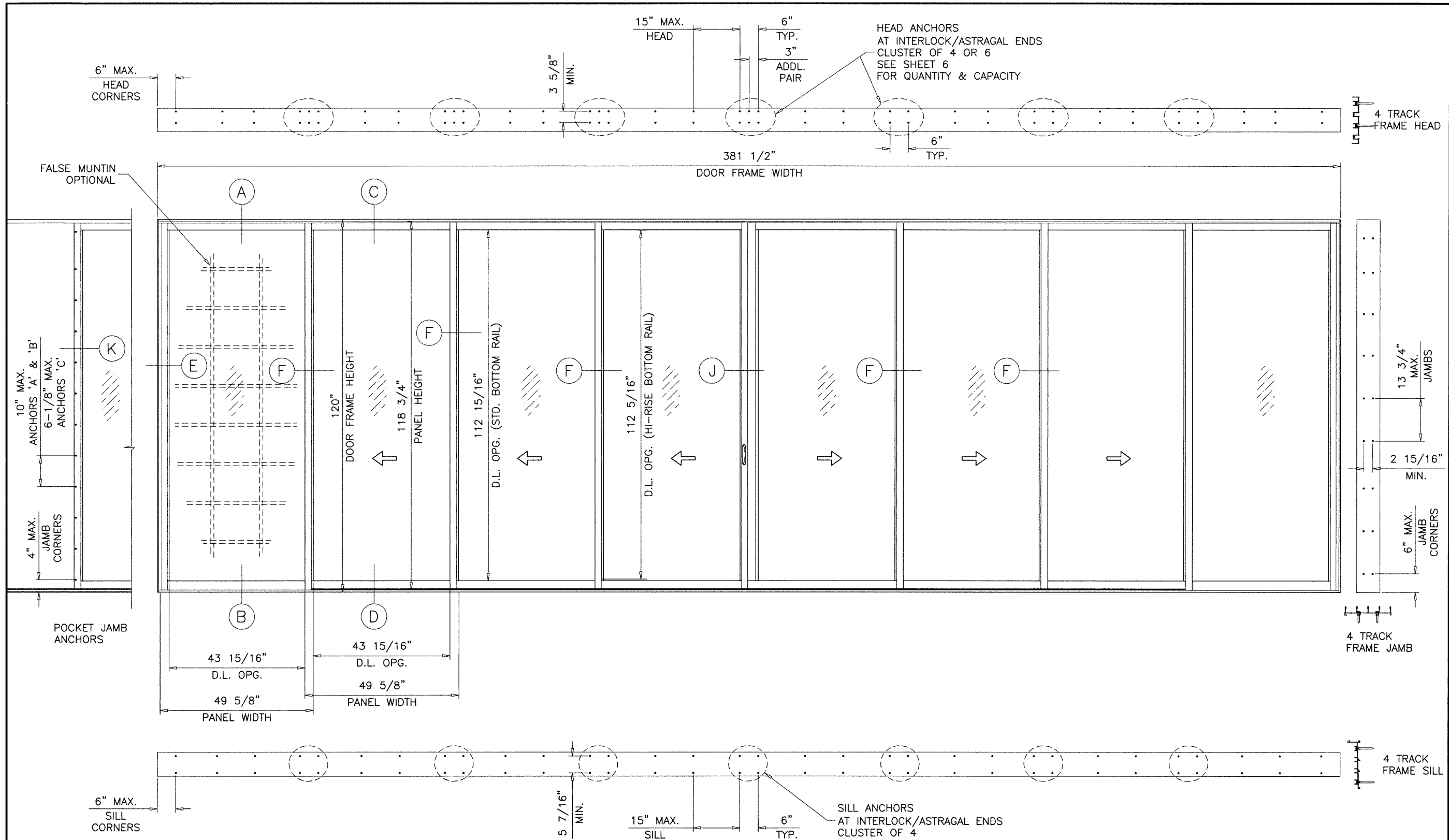
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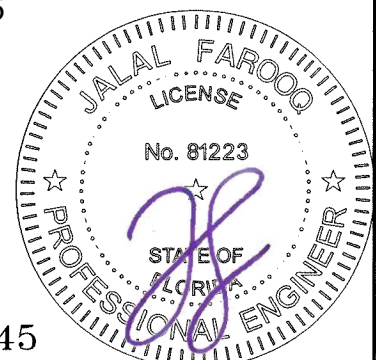
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sheet **3** of **23**



TYPICAL ELEVATION
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af c

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sheet 4 of 23

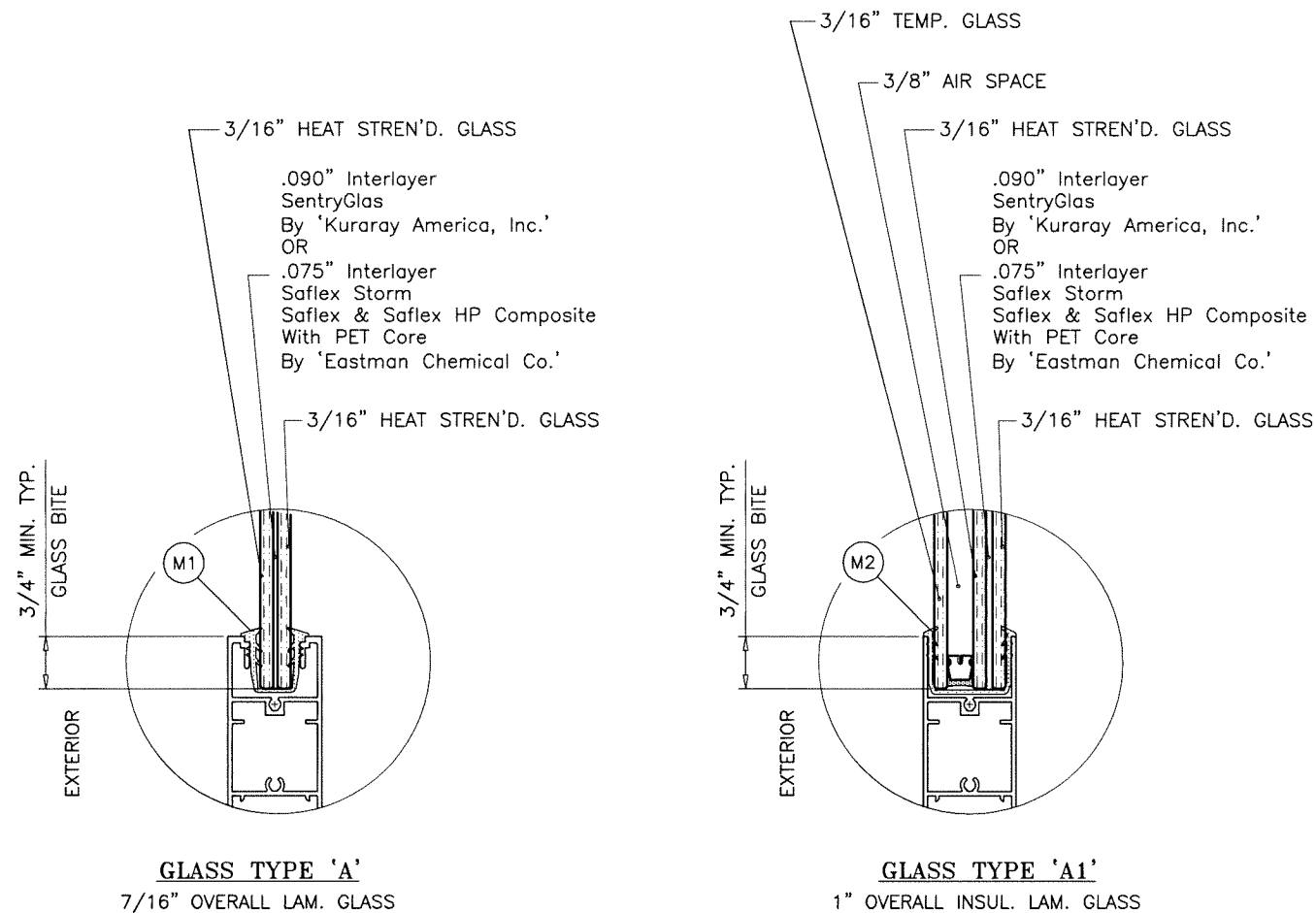
DESIGN LOAD CAPACITY – PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'A1'	
		EXT.(+)	INT.(–)
30	82	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	84	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	90	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	96	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
60		65.0	65.0
30	102	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		57.8	57.8
30	108	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
30	114	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0
30	120	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		65.0	65.0

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

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05–DEC–219

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.



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



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chk. by:	

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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	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	62.6	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	55.6	65.0	65.0	65.0	65.0
60		65.0	65.0	64.4	65.0	50.1	65.0	65.0	64.7	65.0
30	84	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	61.1	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	54.3	65.0	65.0	65.0	65.0
60		65.0	65.0	62.9	65.0	48.9	65.0	65.0	63.1	65.0
30	90	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	57.0	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	50.7	65.0	65.0	65.0	65.0
60		65.0	65.0	58.7	65.0	45.6	60.8	65.0	58.9	65.0
30	96	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	61.1	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	53.5	65.0	65.0	65.0	65.0
54		65.0	65.0	61.1	65.0	47.5	63.4	65.0	61.4	65.0
60		62.1	65.0	55.0	65.0	42.8	57.0	65.0	55.2	65.0
30	102	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	57.5	65.0	65.0	65.0	65.0
48		65.0	65.0	64.7	65.0	50.3	65.0	65.0	65.0	65.0
54		64.9	65.0	57.5	65.0	44.7	59.6	65.0	57.8	65.0
30	108	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	63.4	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	54.3	65.0	65.0	65.0	65.0
48		65.0	65.0	61.1	65.0	47.5	63.4	65.0	61.4	65.0
30	114	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	60.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	51.5	65.0	65.0	65.0	65.0
48		65.0	65.0	57.9	65.0	45.0	60.0	65.0	58.1	65.0
30	120	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36		65.0	65.0	65.0	65.0	57.0	65.0	65.0	65.0	65.0
42		65.0	65.0	62.9	65.0	48.9	65.0	65.0	63.1	65.0
48		62.1	65.0	55.0	65.0	42.8	57.0	65.0	55.2	65.0

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: 12/11/2025



FL #22645



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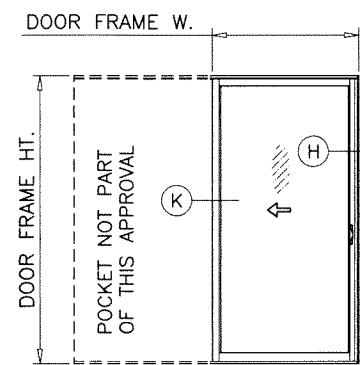
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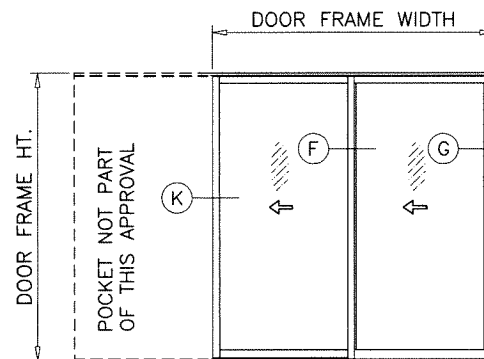
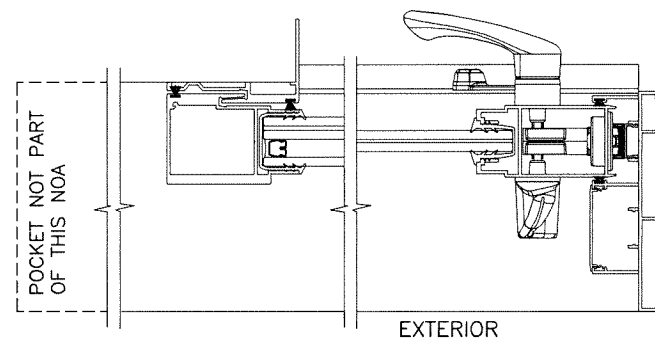
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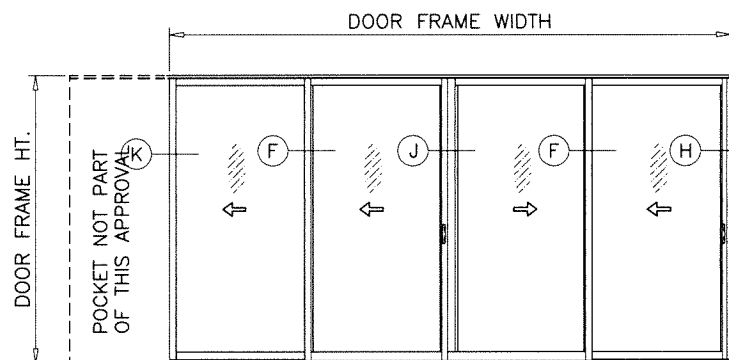
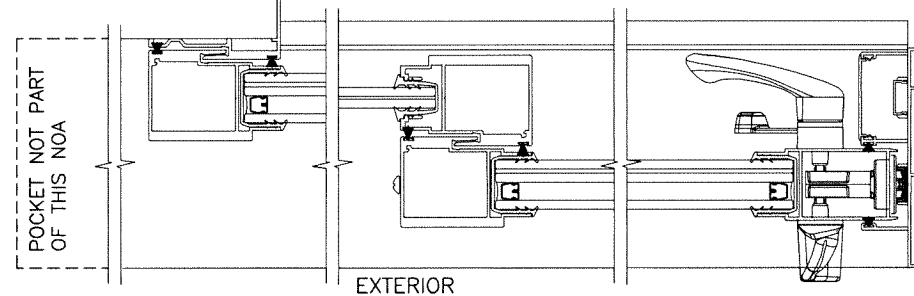
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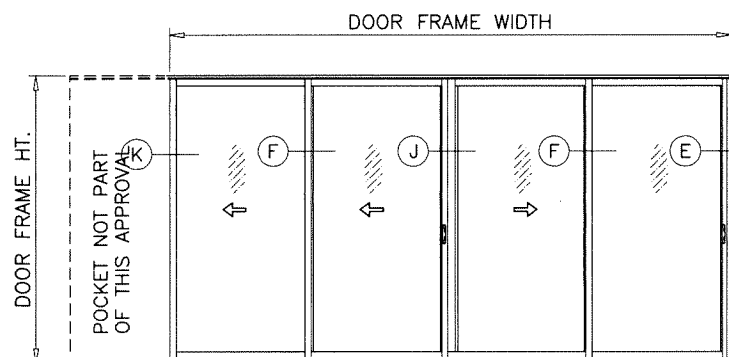
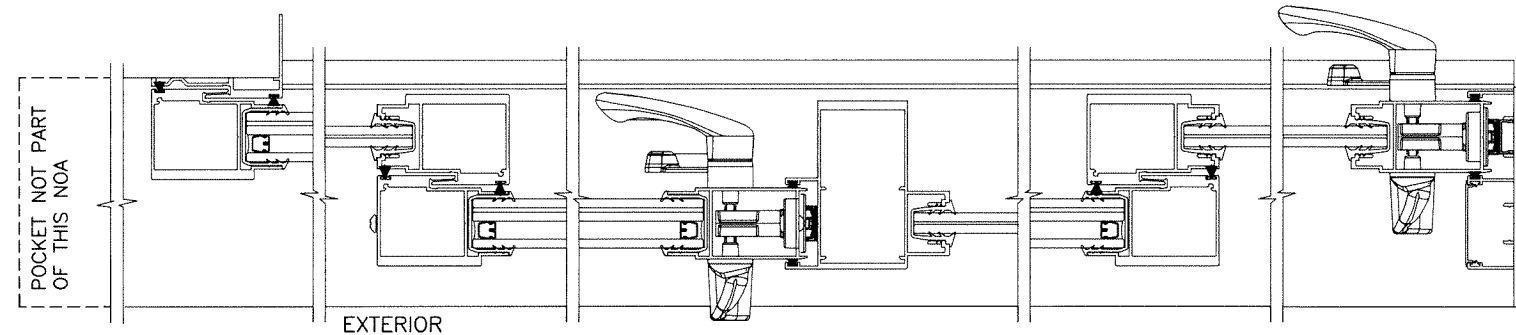
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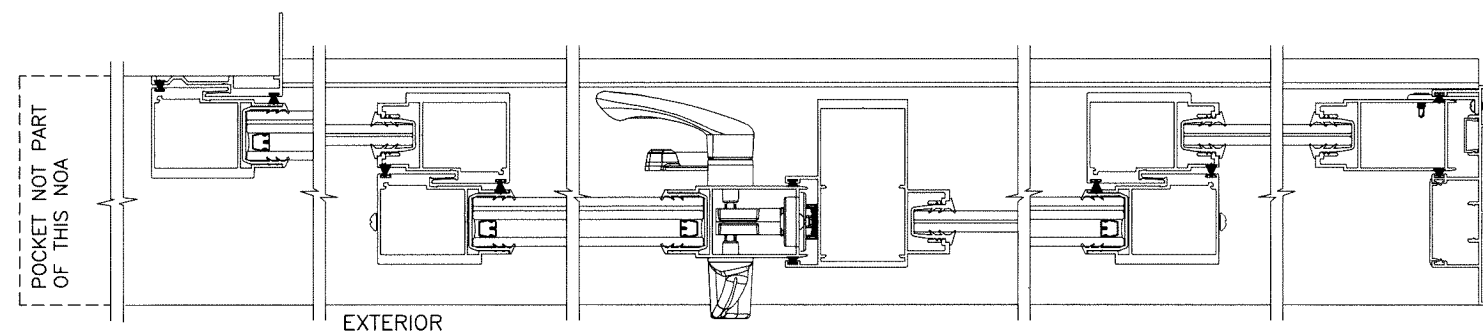
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PXX-XX (SHOWN)
XX-XXP



PXX-XO (SHOWN)
OX-XXP

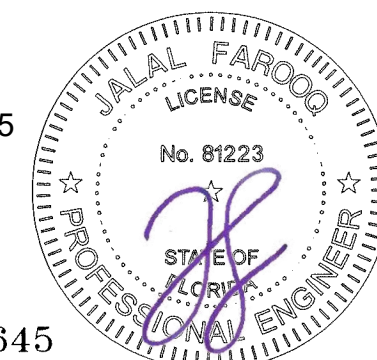


NOTE:

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 243.4 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.
5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.

APPROVED CONFIGURATIONS
POCKETED DOORS
TWO (2) TRACKS

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FL #22645

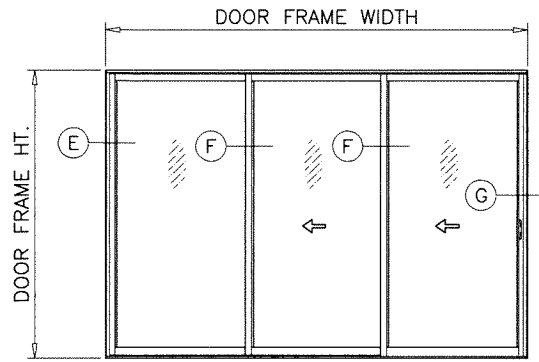
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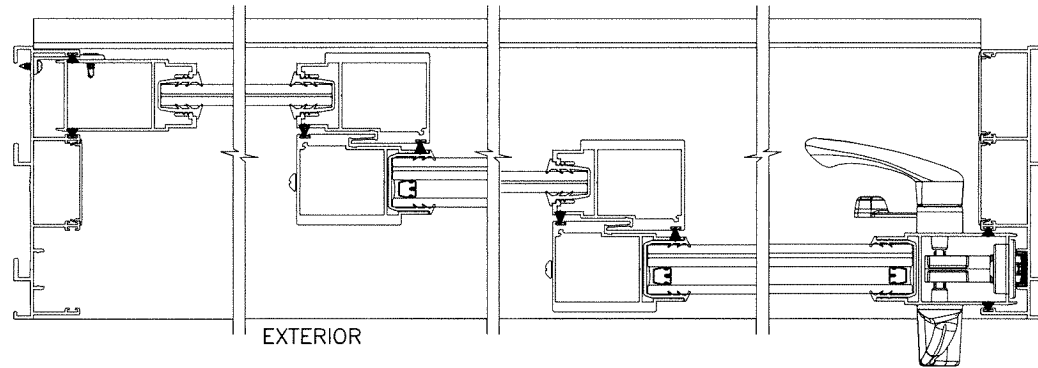
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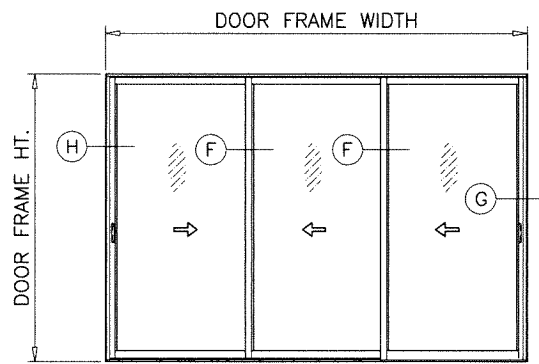
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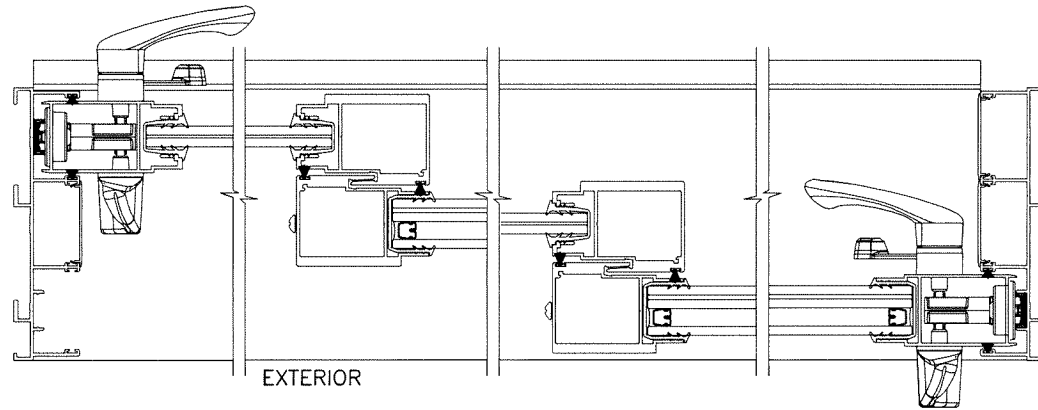
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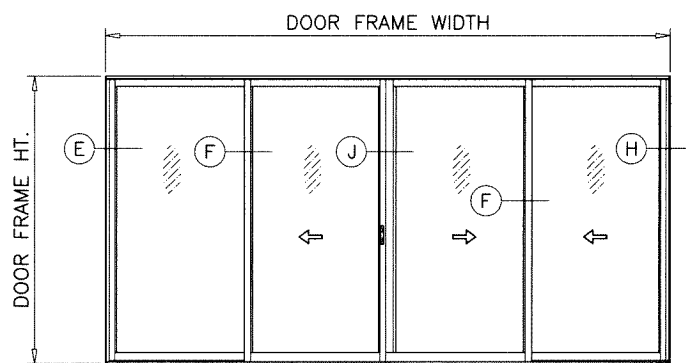
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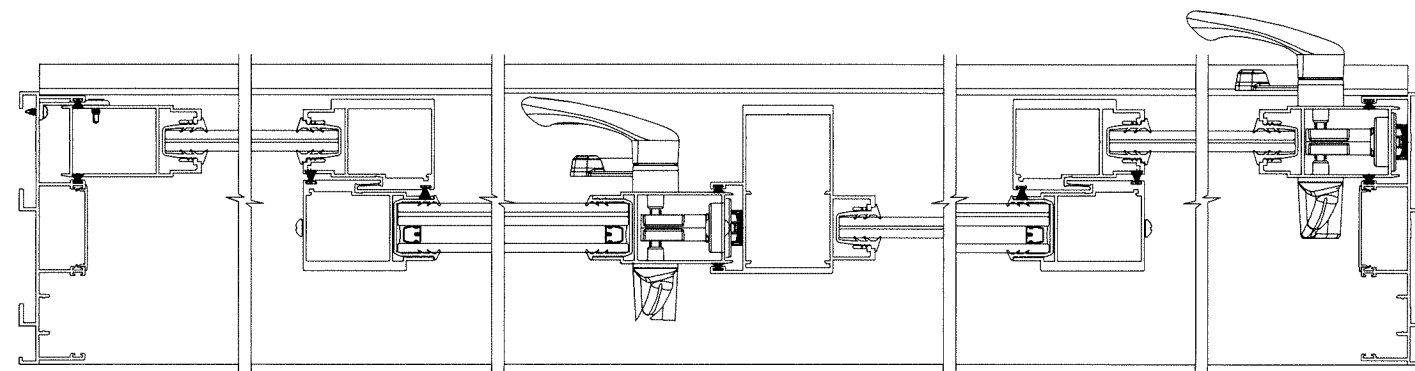
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EXTERIOR



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

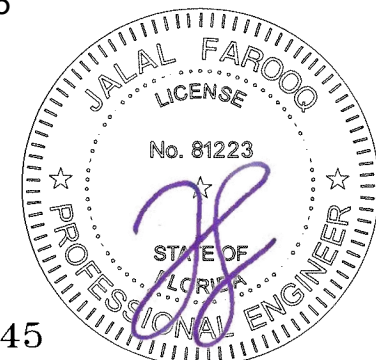


EXTERIOR

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 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

Sealed: 12/11/2025



APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS

FL #22645

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
COMP-ANL\20-22F-ES

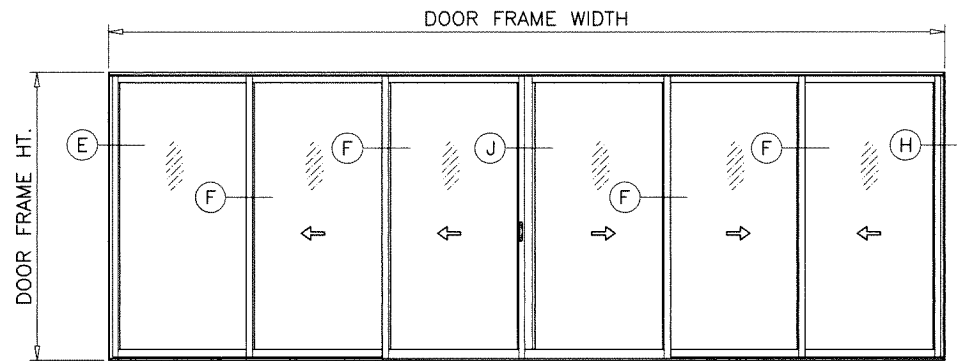
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

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

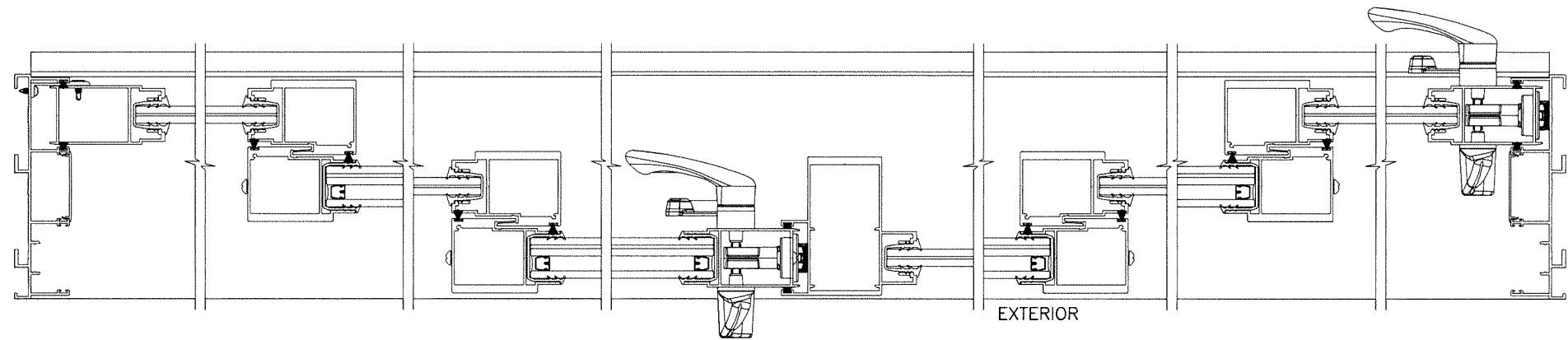
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drawing no.
20-22F
sheet 9 of 23



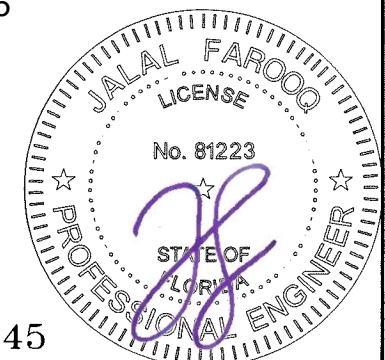
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- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.
 4. FOR ALTERNATE SIZE UNITS MAX. OVERALL FRAME AREA OF 3 TRACK FRAMES NOT TO EXCEED 360.2 SQ. FT. PER FBC. PANELS WIDTH AND HEIGHT NOT TO EXCEED SIZES SHOWN IN CHART ON SHEET 5.

APPROVED CONFIGURATIONS
 NON-POCKETED DOORS
 THREE (3) TRACKS

Sealed: 12/11/2025



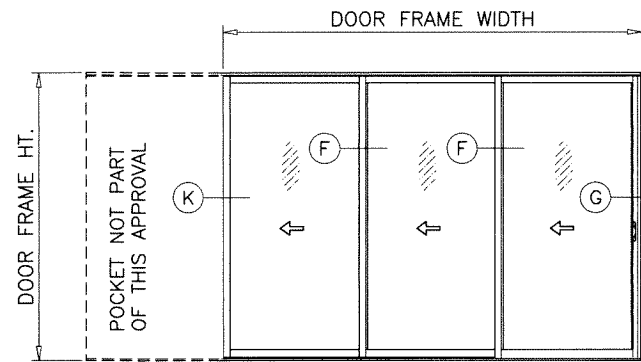
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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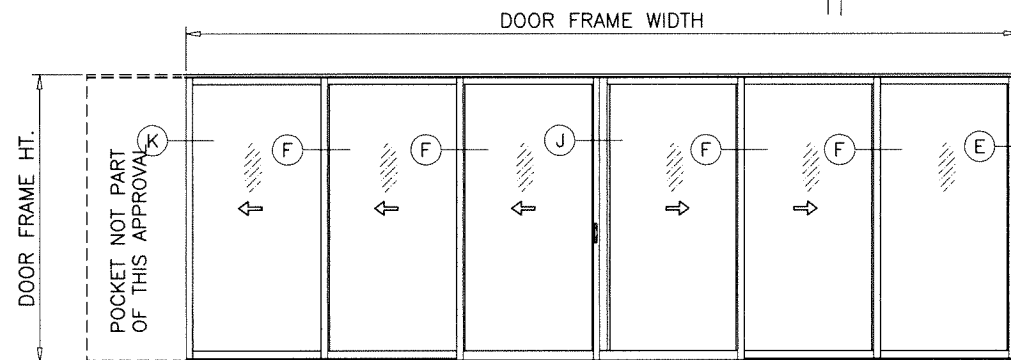
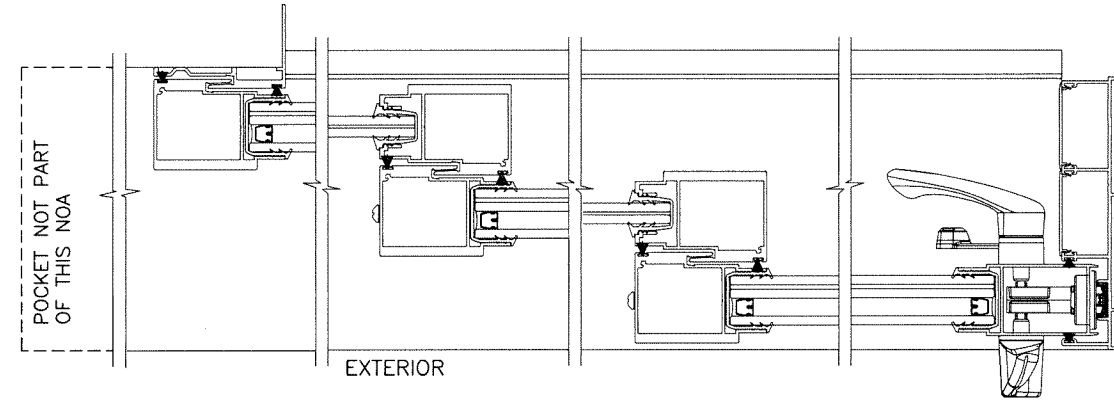
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drawing no.		20-22F							
sheet		9.1 of 23							

FL #22645

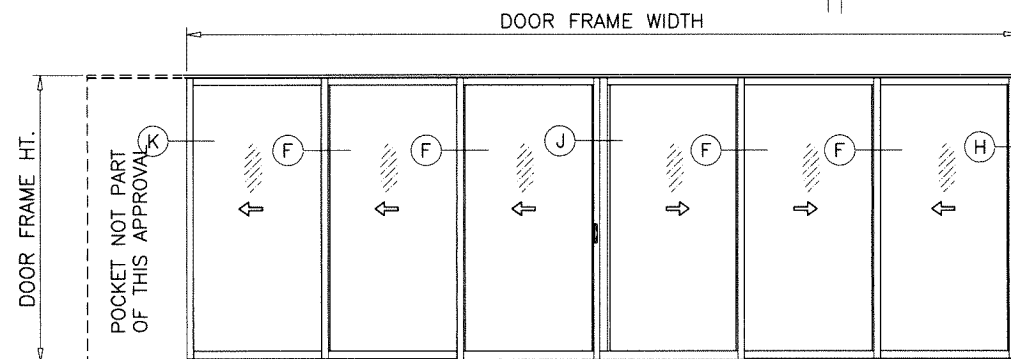
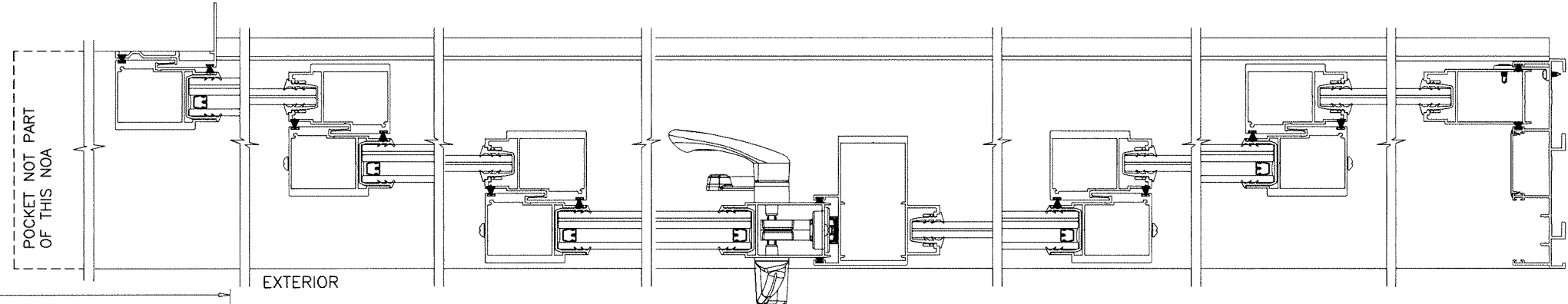
COMP-ANL\20-22F-ES



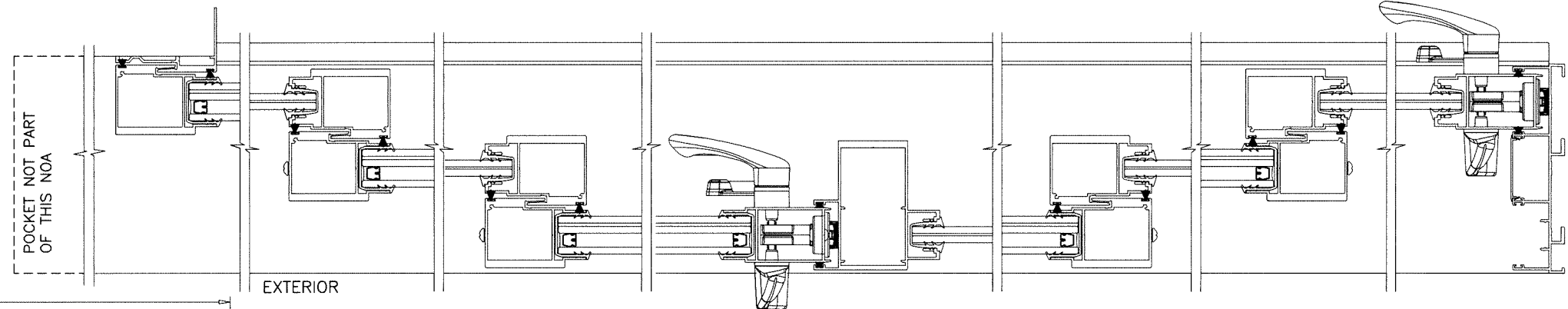
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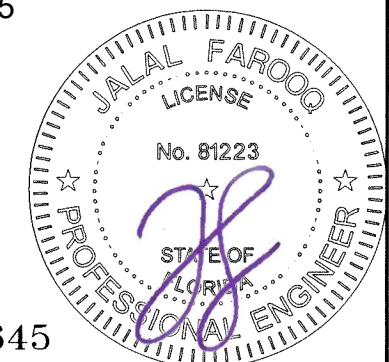
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5. POCKETS NOT PART OF THIS APPROVAL. POCKET AREA IS NOT INCLUSIVE AS FRAME AREA.

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APPROVED CONFIGURATIONS
POCKETED DOORS
THREE (3) TRACKS

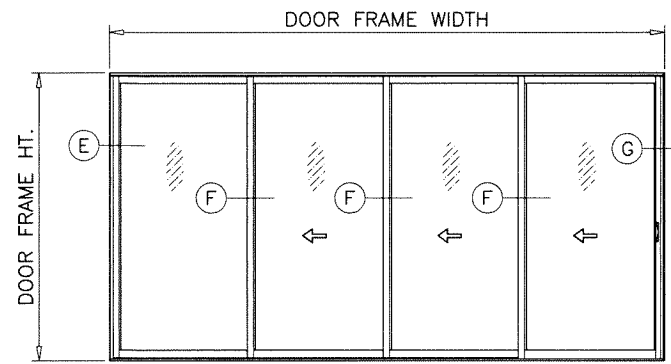
FL #22645

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-22F-ES

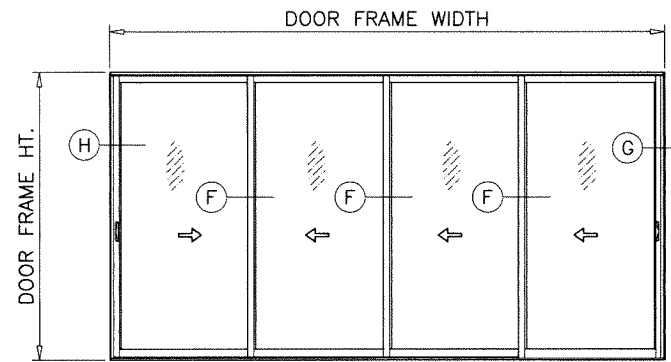
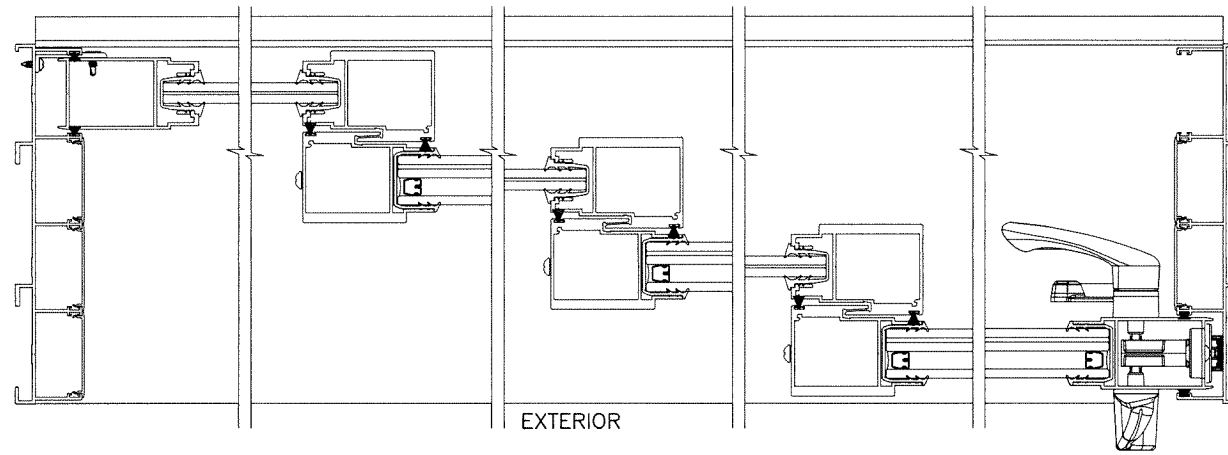
ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

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

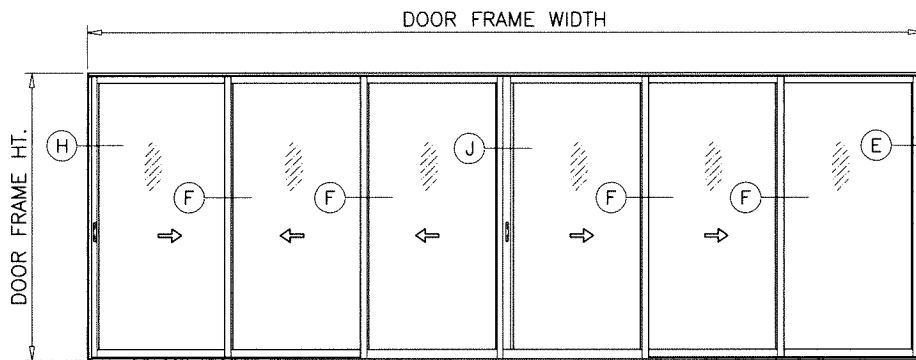
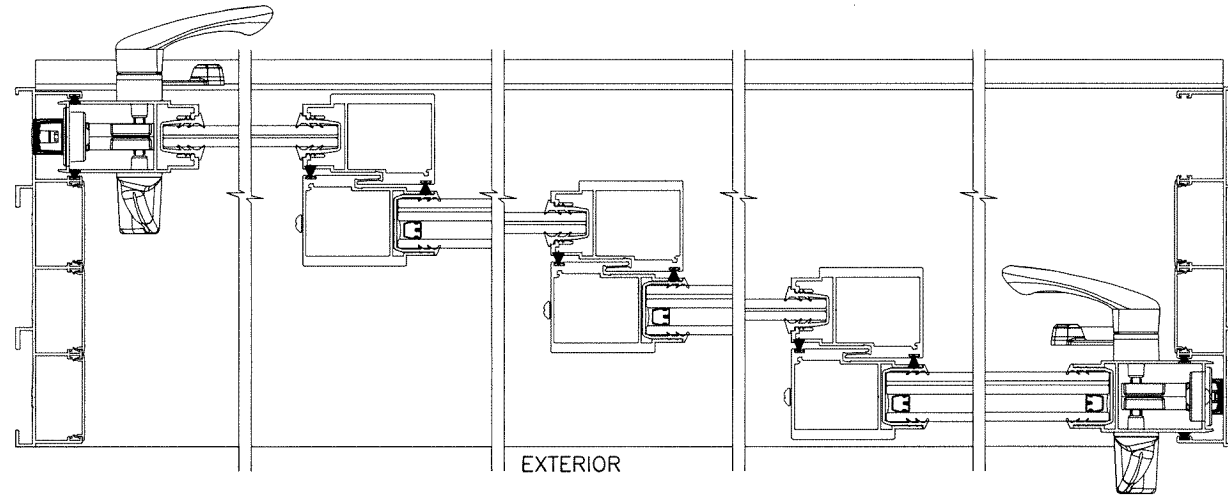
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drawing no.	20-22F	sheet	10 of 23



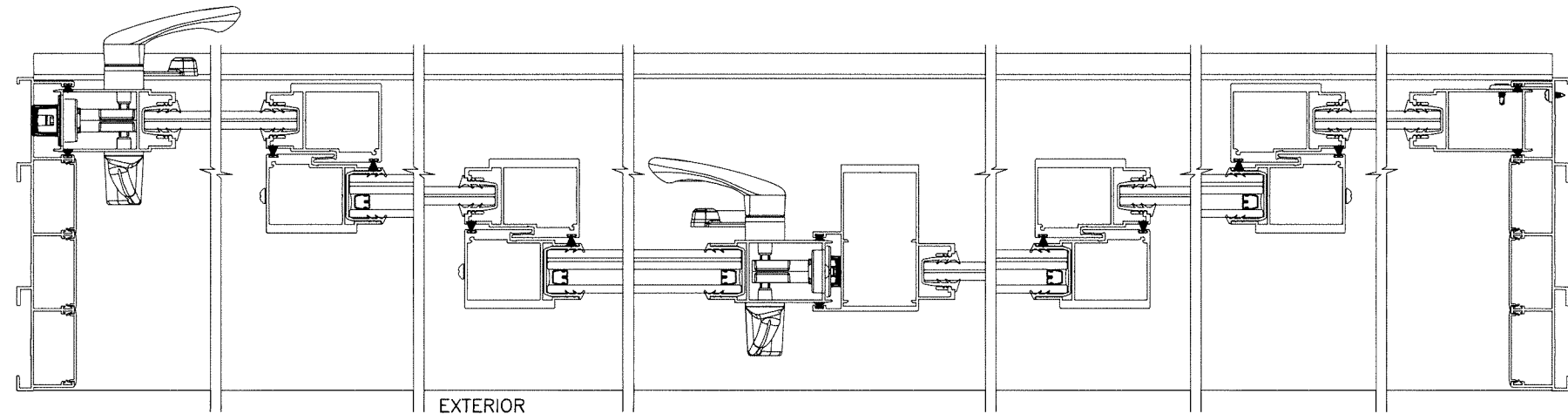
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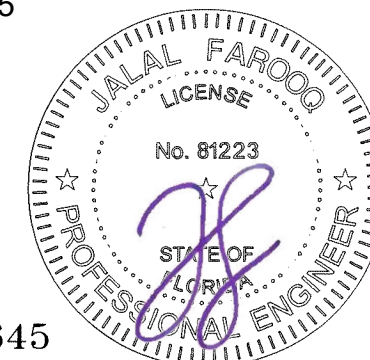
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OXX-XXO
XXX-XXX



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Sealed: 12/11/2025



APPROVED CONFIGURATIONS
NON-POCKETED DOORS
FOUR (4) TRACKS

FL #22645

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-22F-ES

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

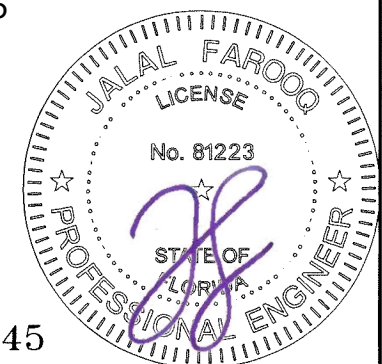
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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date:	04-01-20			
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dr. by:	TARIQ			
chk. by:				
drawing no.	20-22F			
sheet	11 of 23			



Sealed: 12/11/2025

FL #22645

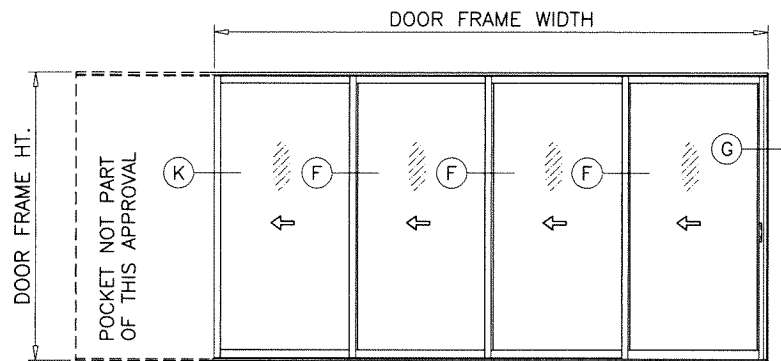


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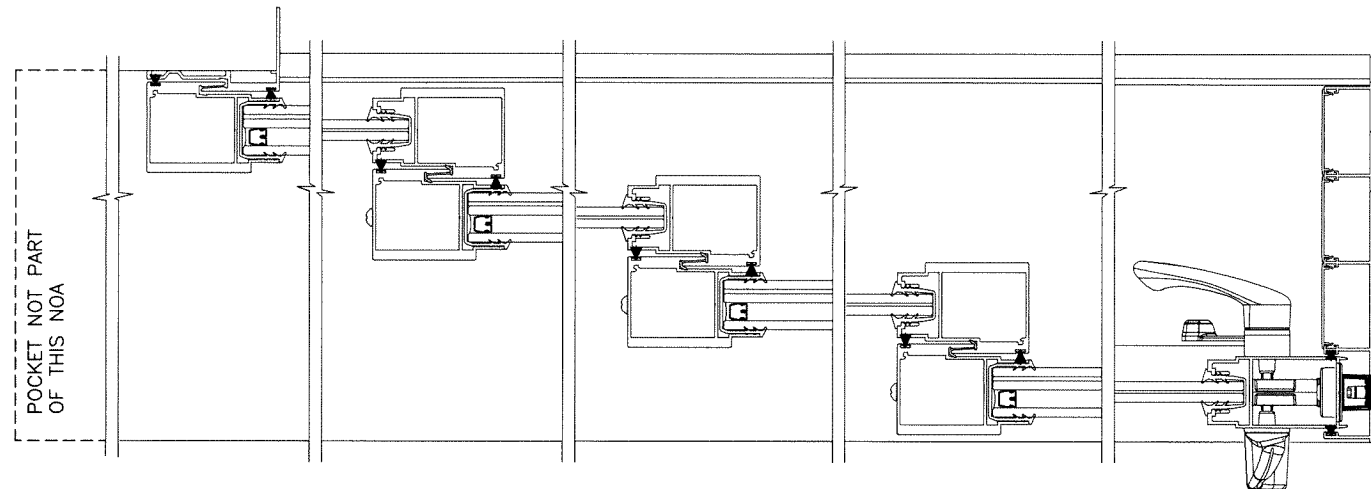
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chk. by:

drawing no.
20-22F

sheet 11.1 of 23

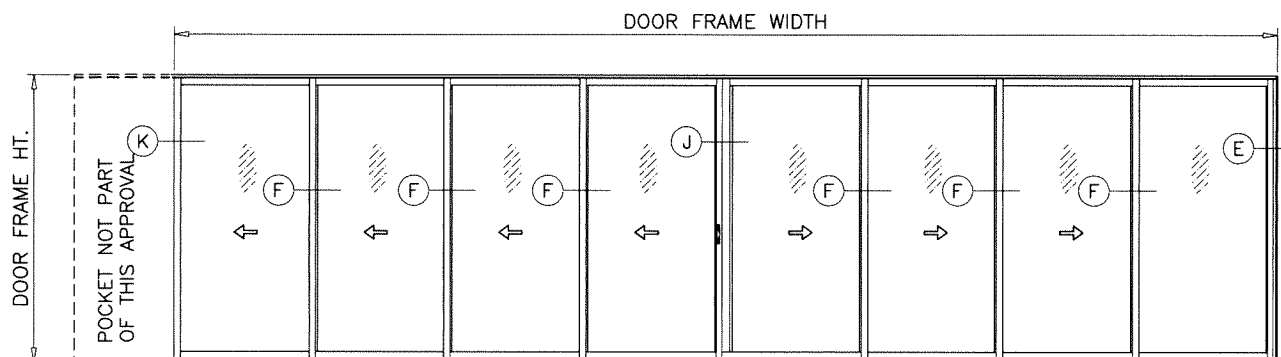
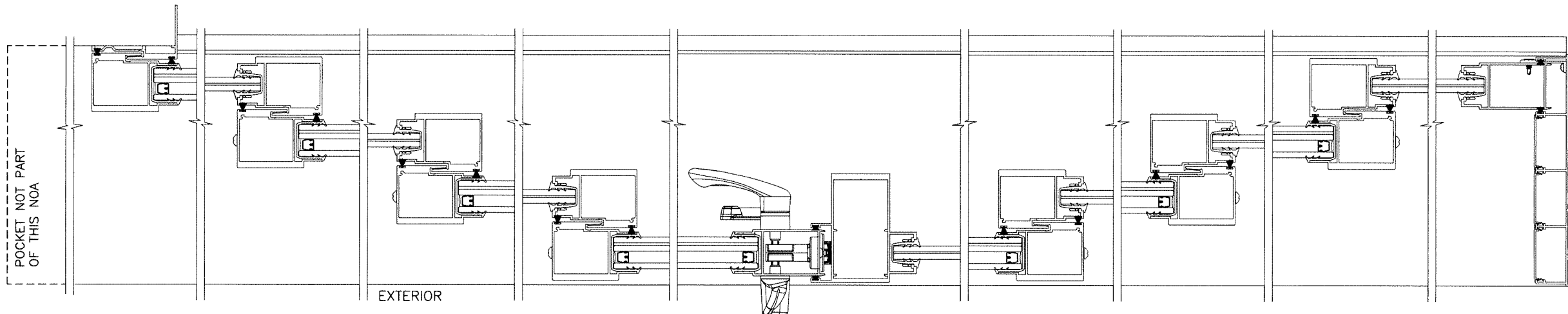


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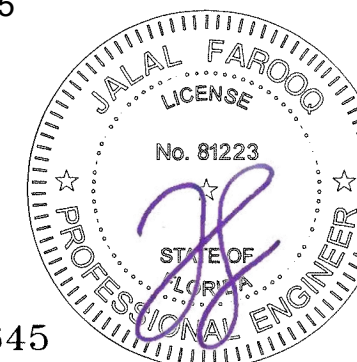
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PXXXX-XXXXO (SHOWN)
OXXX-XXXXP

Sealed: 12/11/2025



APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

FL #22645

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.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

date: 04-01-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.

20-22F

sheet 12 of 23

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

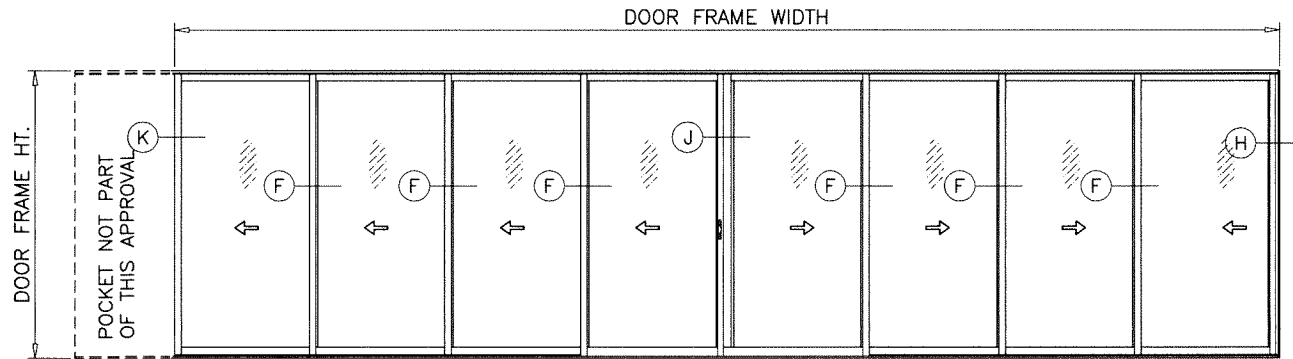
9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

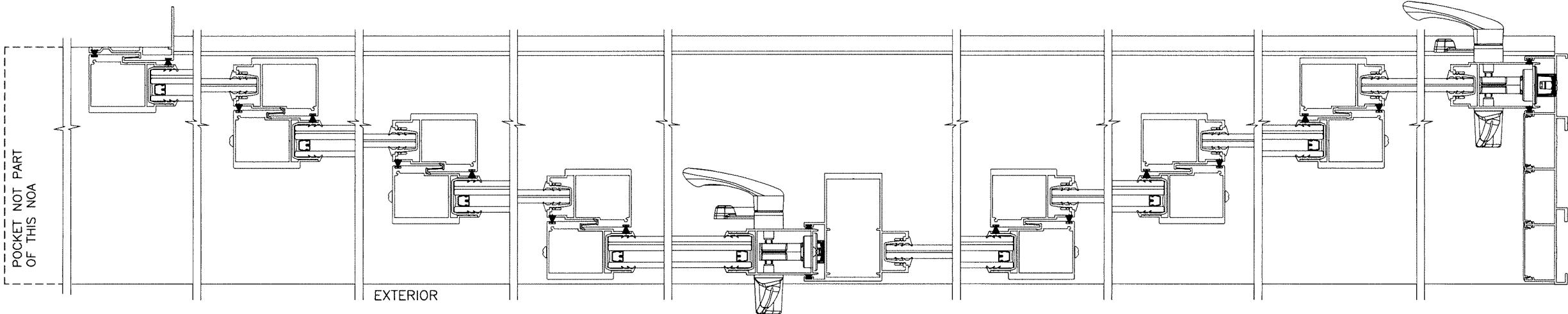
TEL. (305) 264-8100

FAX. (305) 262-6978

COMP-ANL\20-22F-ES

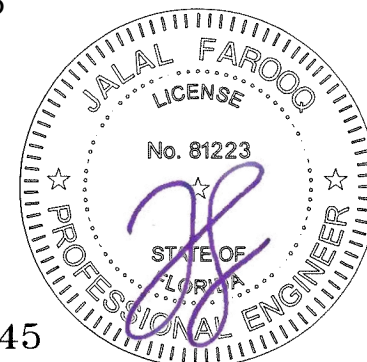


PXXXX-XXXX (SHOWN)
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PXXXX-XXXXP



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APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

FL #22645

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.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

date: 04-01-20
scale: -
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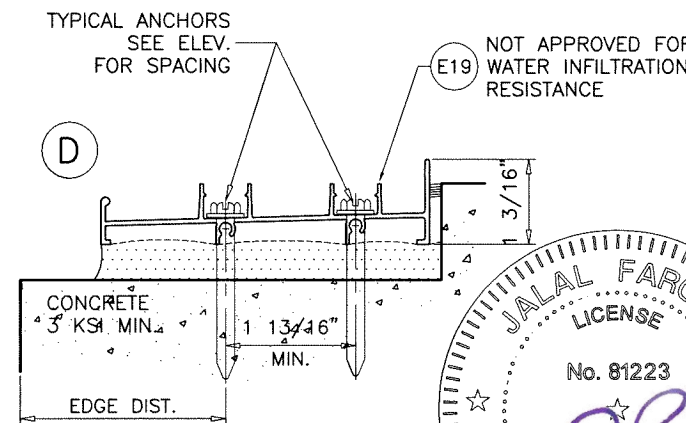
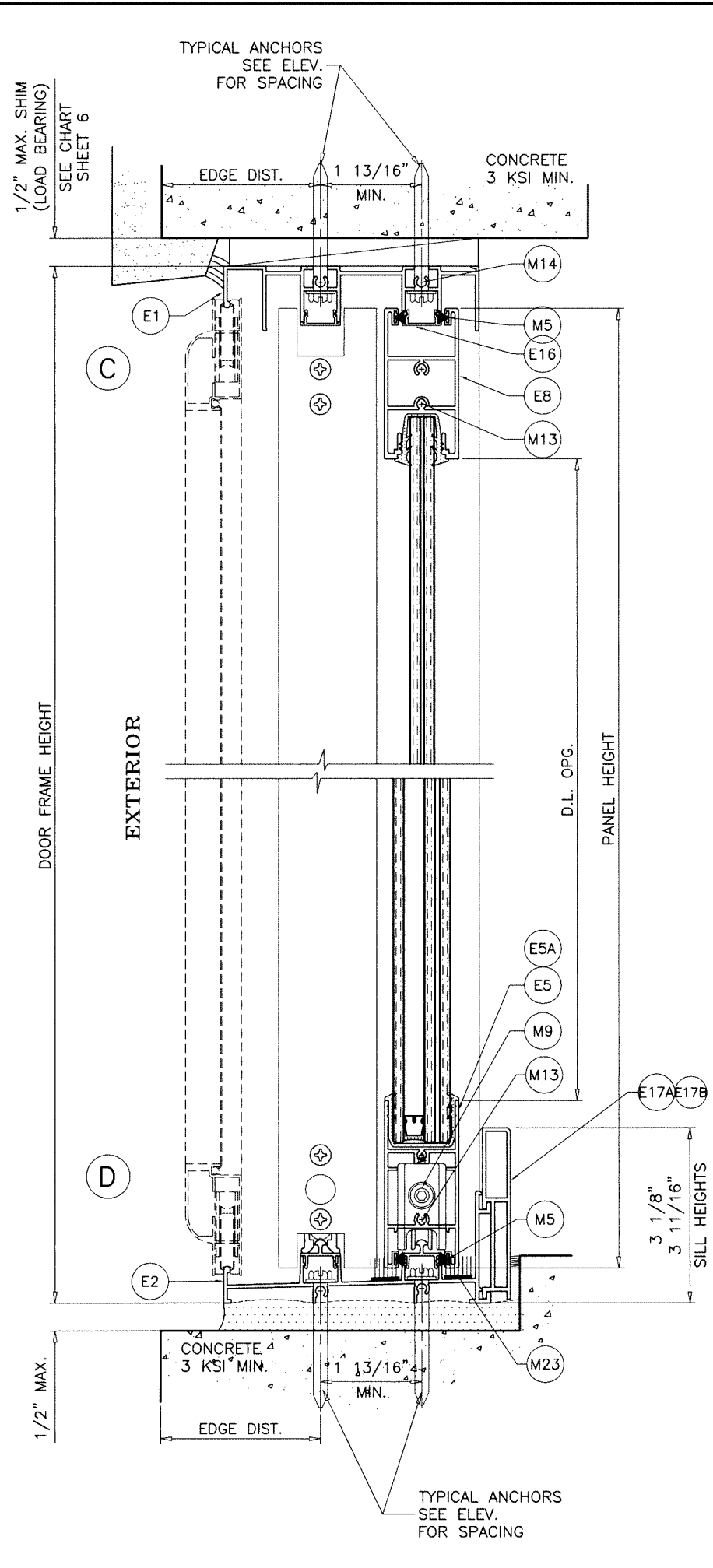
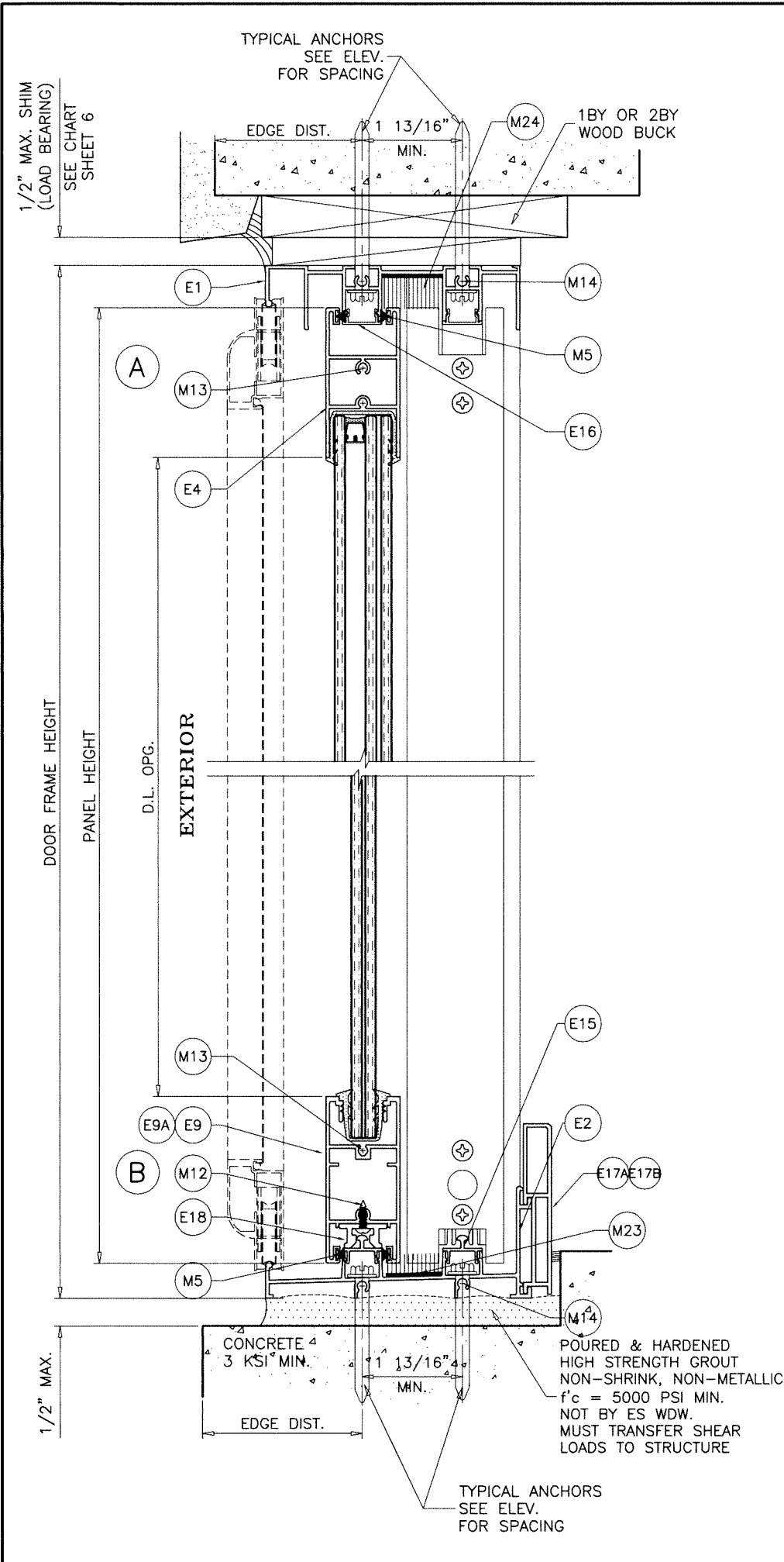
drawing no.

20-22F

sheet 13 of 23

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\20-22F-ES



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FL #22645



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978		E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158		ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)	COMP-ANL\20-22F-ES
date: 04-01-20	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:	revisions: no. date by description	drawing no. 20-22F sheet 14 of 23

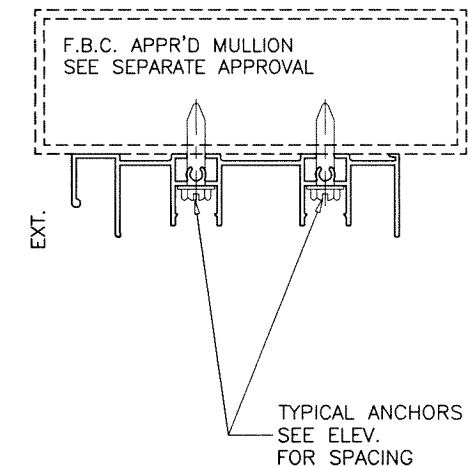
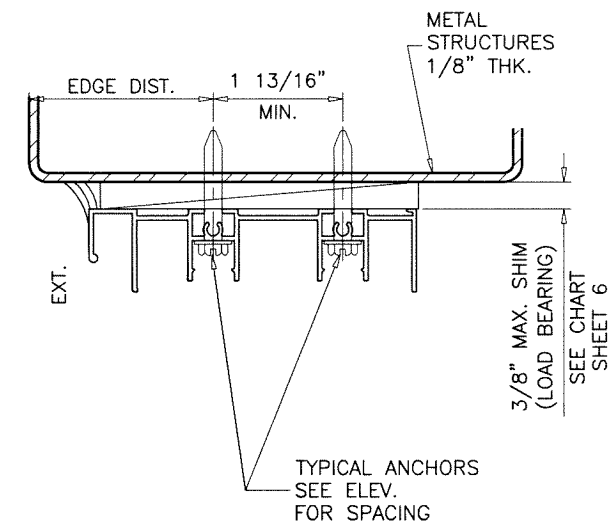
AT HEAD

AT SILL

AT JAMBS

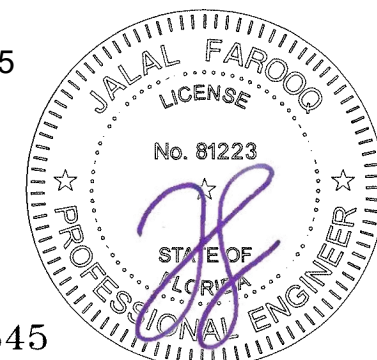
ANCHOR EDGE DISTANCES

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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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
(C.A.N. 3538)
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ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)

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

FAX. (305) 638-5158

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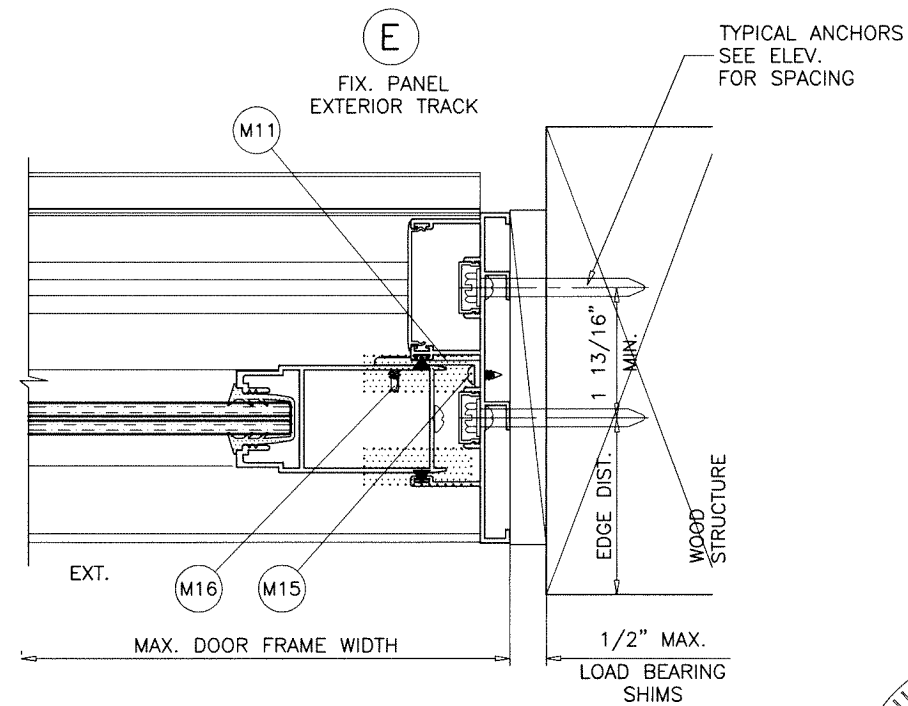
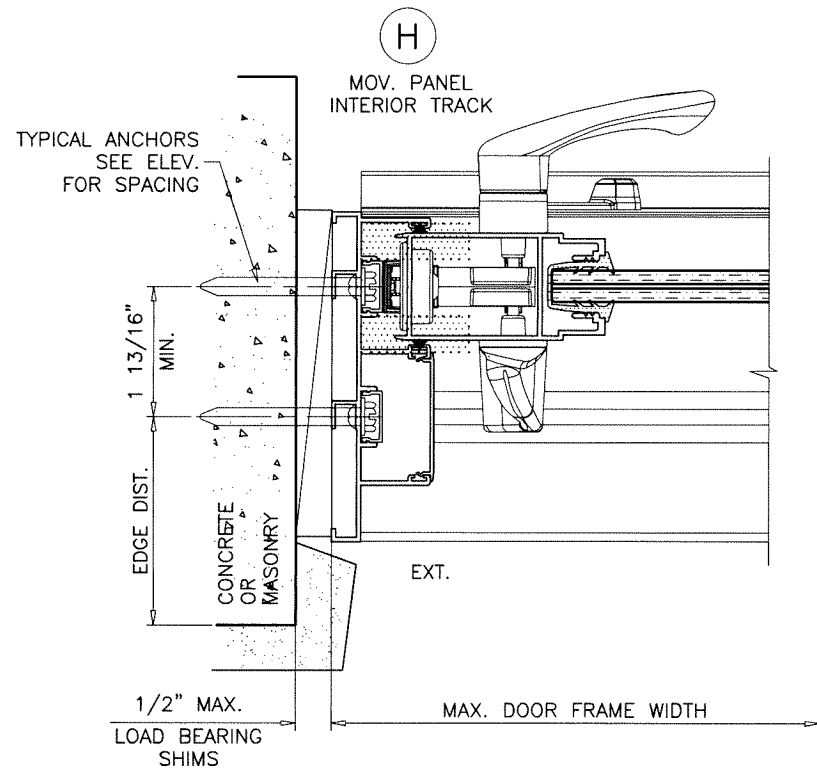
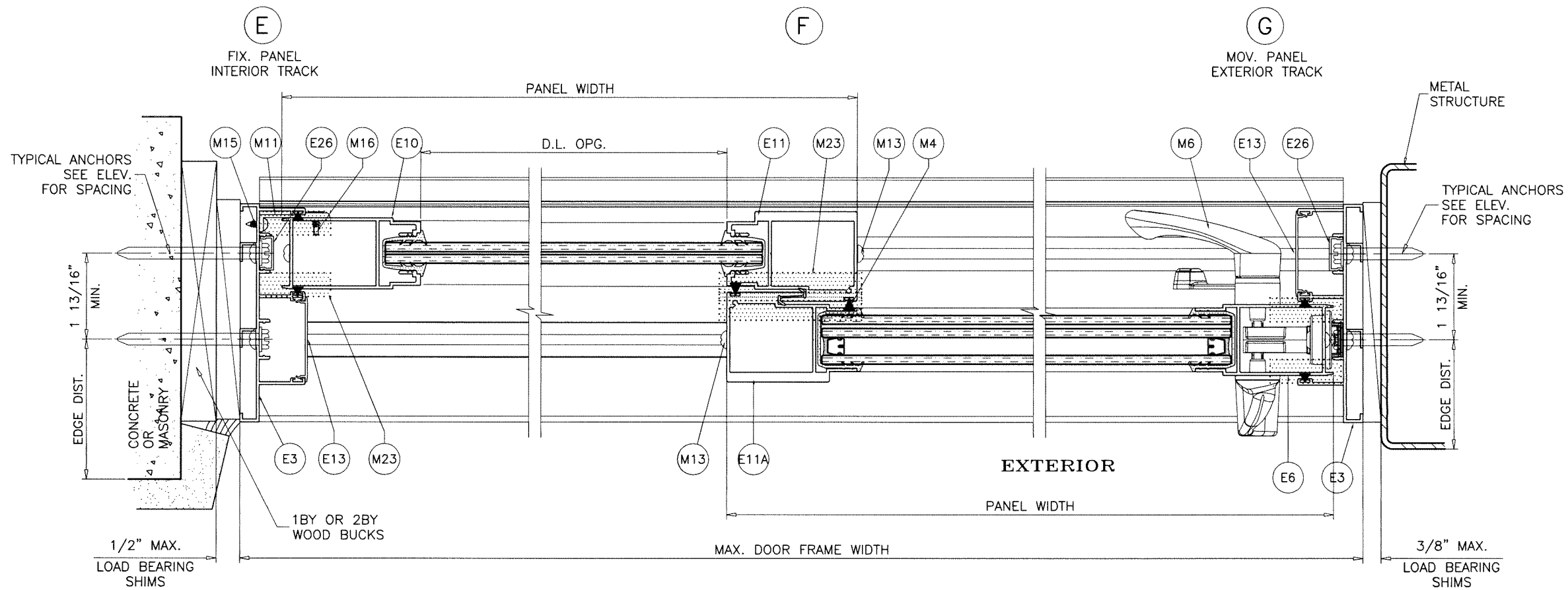
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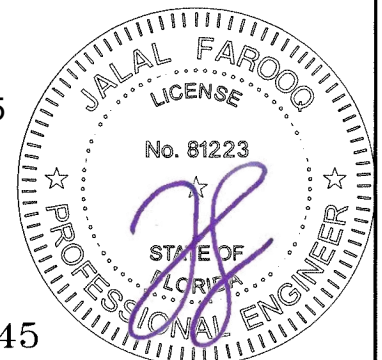
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drawing no.
20-22F

sheet 15 of 23



Sealed: 12/11/2025

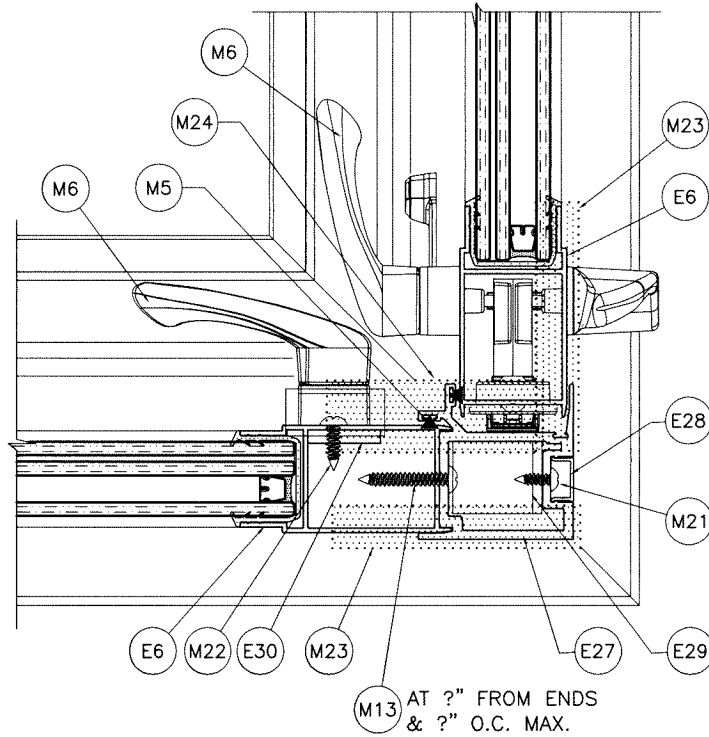


FL #22645

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 20-22F-ES

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:		no	date	by	description
date:	04-01-20	scale:	3/8" = 1"	dr. by:	TARIQ
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drawing no.	20-22F				
sheet	16 of 23				



90° CORNER OPTION

FOR DOORS WITH CORNER ASTRAGAL MAX. FRAME HEIGHT NOT TO EXCEED 96 INCHES

Sealed: 12/11/2025



FL #22645



AL-FAROOQ CORPORATION
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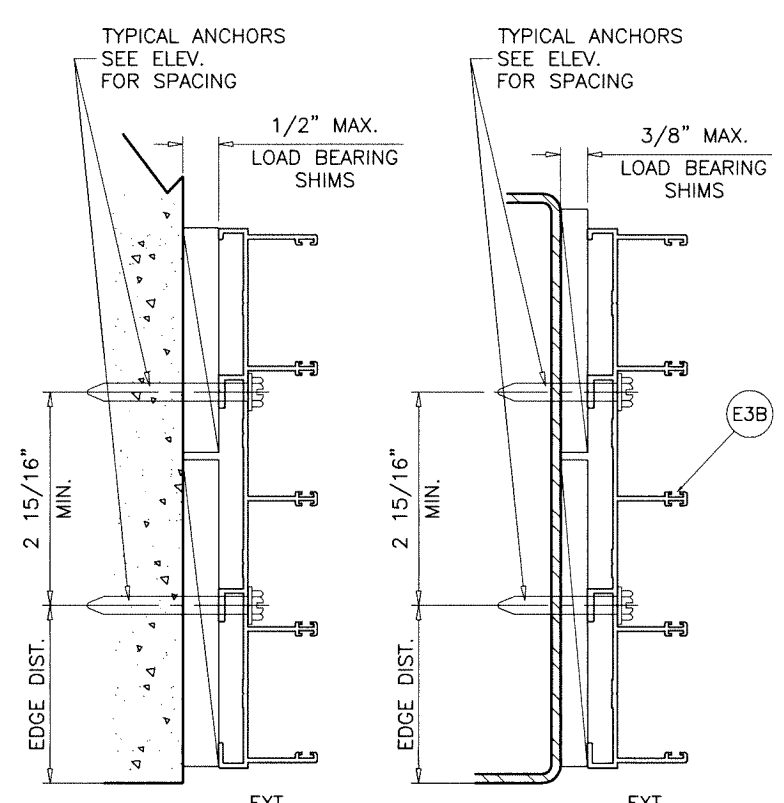
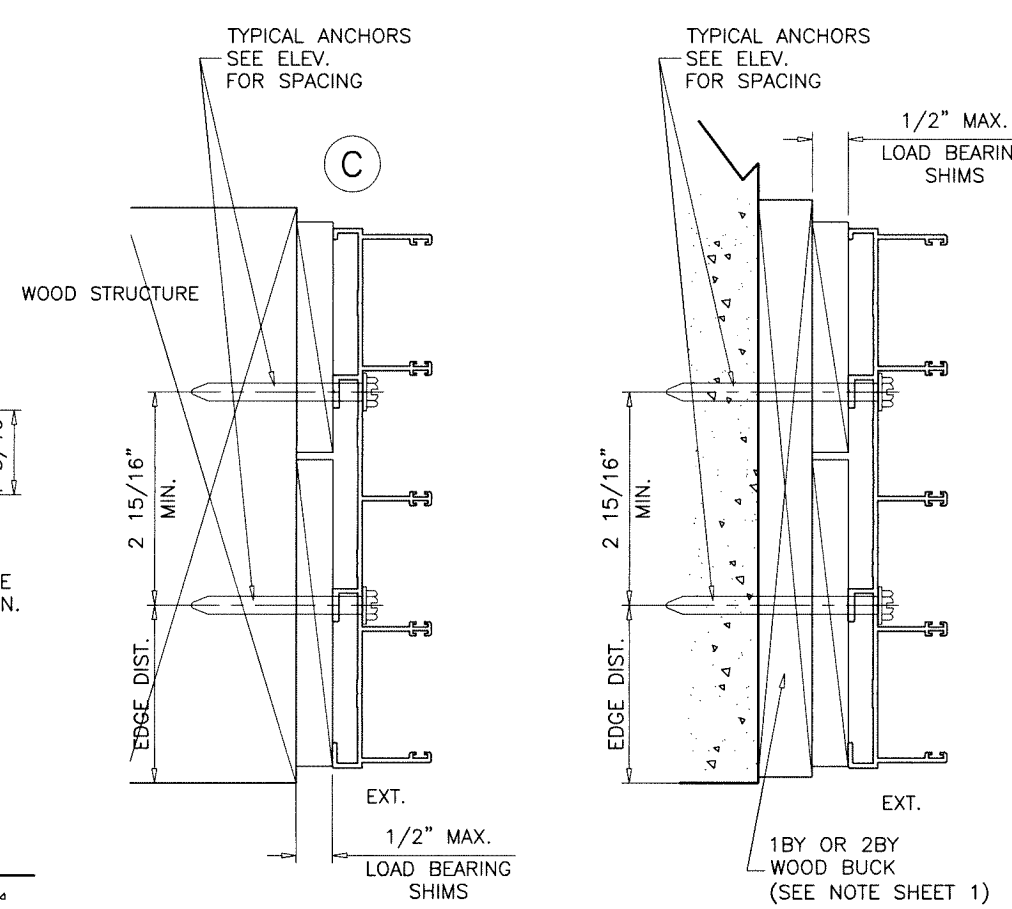
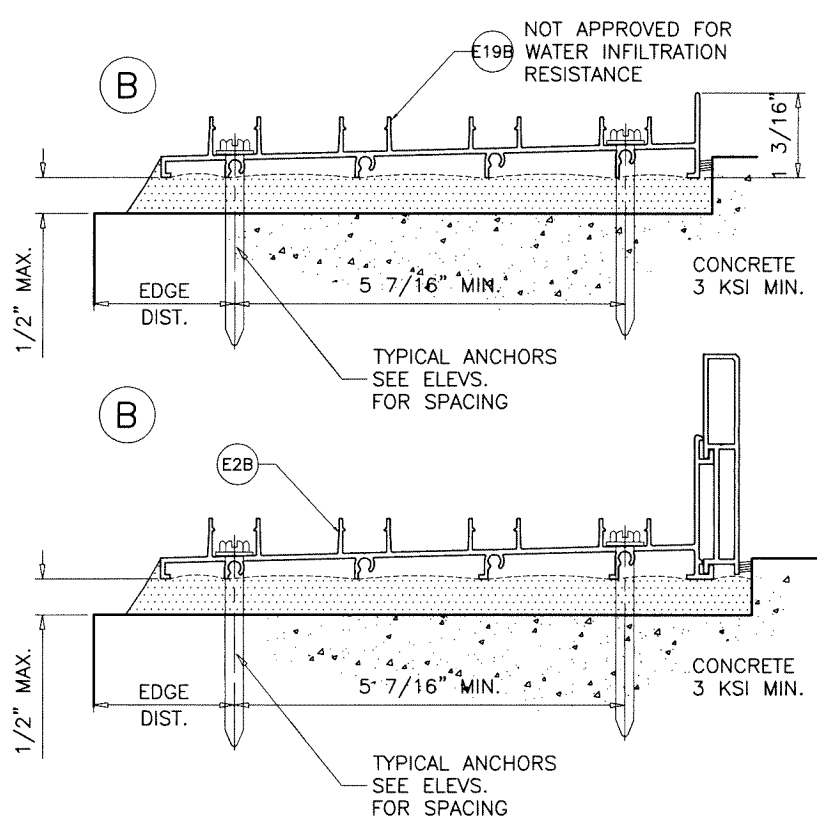
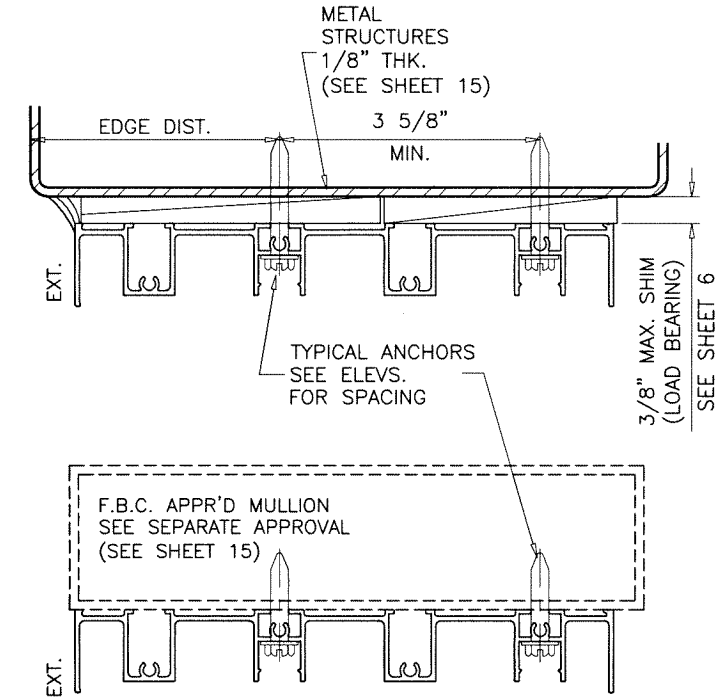
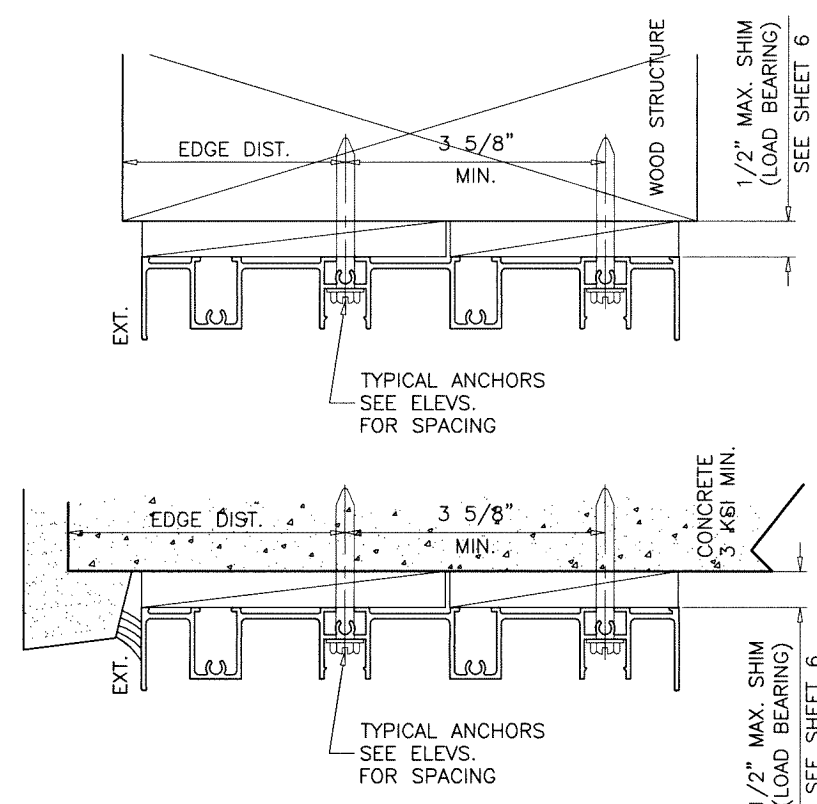
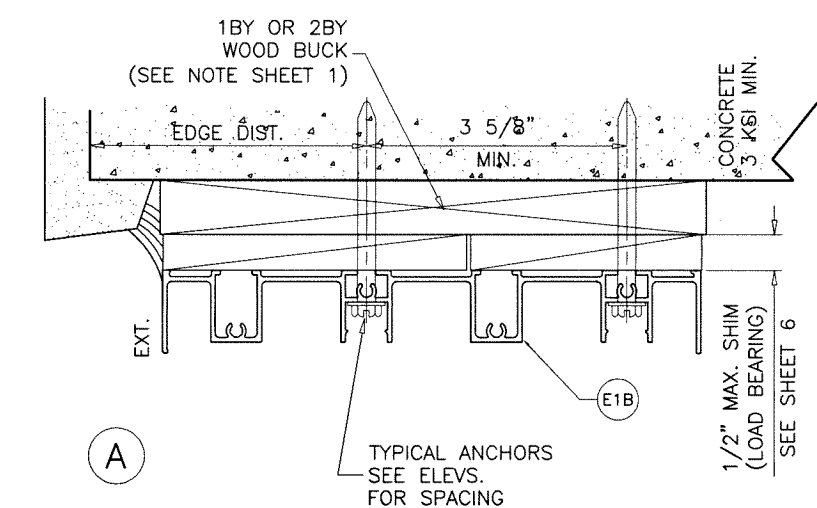
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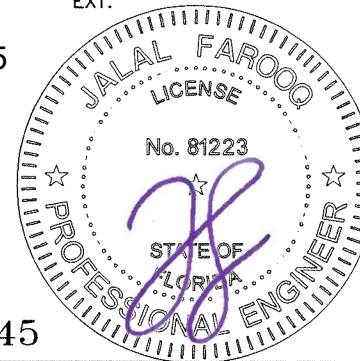
20-22F

sheet 17.1 of 23



4 TRACK FRAMES
ANCHOR LOCATIONS

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\20-22F-ES

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

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revisions:	
no	date by description

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dr. by: TARIQ
chk. by:

drawing no.
20-22F
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	-
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.	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E11A	ES-EL400-031	AS REQD.	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	-
E17	ES-EL400-018	AS REQD.	SILL RISER	6063-T6	-
E17A	ES-2020-007	AS REQD.	ALT. SILL RISER	6063-T6	-
E17B	ES-2020-041	AS REQD.	ALT. SILL RISER	6063-T6	-
E18	ES-EL400-020	AS REQD.	FIXED PANEL BOTTOM GUIDE	6063-T6	-
E19	ES-EL400-401	1	FRAME SILL (2 TRACK)	6063-T6	-
E19A	ES-EL400-403	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E19B	ES-EL400-404	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
E27	ES-EL400-033	AS REQD.	90° ASTRAGAL	6005-T5	-
E28	ES-EL114	AS REQD.	90° ASTRAGAL COVER	6063-T6	-
E29	ALU-A-015	AS REQD.	90° ASTRAGAL ANGLE	6063-T6	-
E30	ALU-P-019	AS REQD.	ALUMINUM PLATE	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

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
M21	#8 X 1/2"	AS REQD.	ASTRAGAL ANGLE FASTENERS	ST. STEEL	F.H. SMS
M22	#10 X 1/2"	AS REQD.	ALUMINUM PLATE FASTENERS	ST. STEEL	P.H. SMS
M23	P3802AFK	AS REQD.	BOTTOM ADHESIVE PILE PAD, 3" LONG	POLYPROPYLENE	-
M24	P6304AFK	AS REQD.	TOP ADHESIVE PILE PAD, 4" LONG	POLYPROPYLENE	-

LOCK:

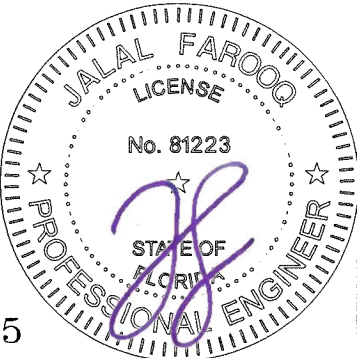
SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 1/2" FH SMS (M20)
SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
44" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10 X 1" FH SMS

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.

Sealed: 12/11/2025



FL #22645

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-22F-ES

ES-EL400-10 ALUM SLIDING GLASS DOOR (L.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

date: 04-01-20

scale: 3/8" = 1"

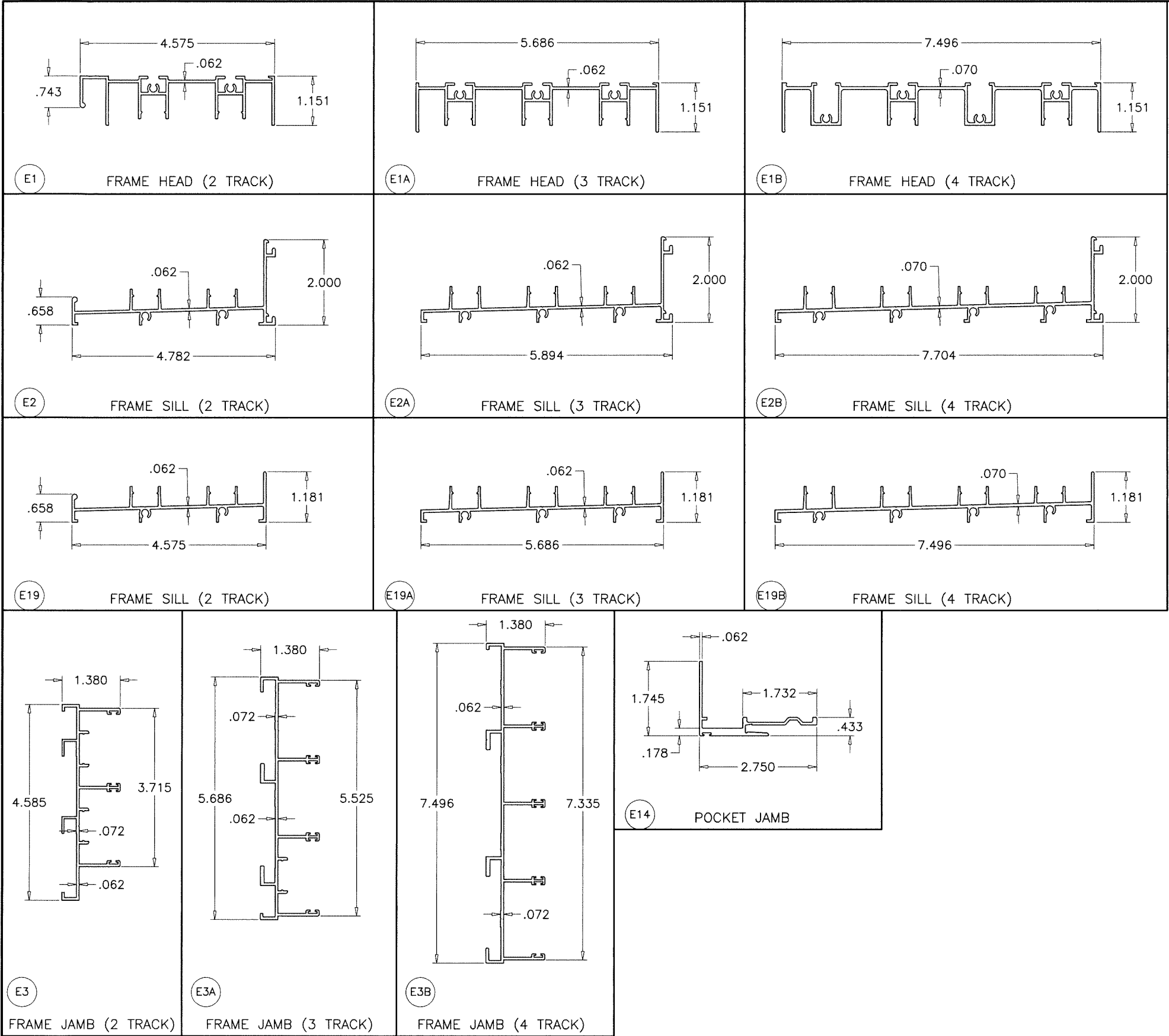
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drawing no.

20-22F

sheet 20 of 23



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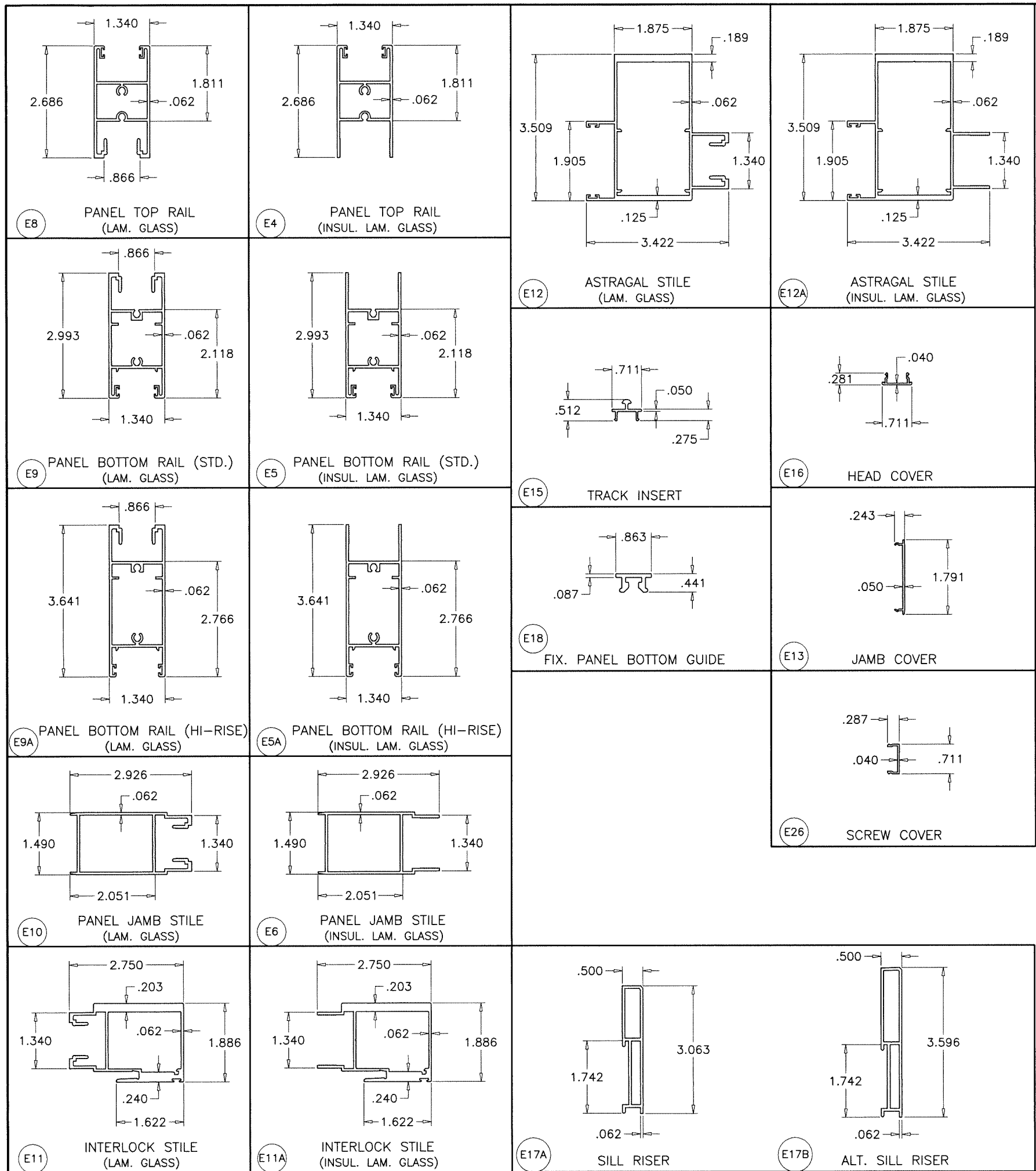
FL #22645

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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

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no	date		

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chk. by:
drawing no. 20-22F
sheet 21 of 23



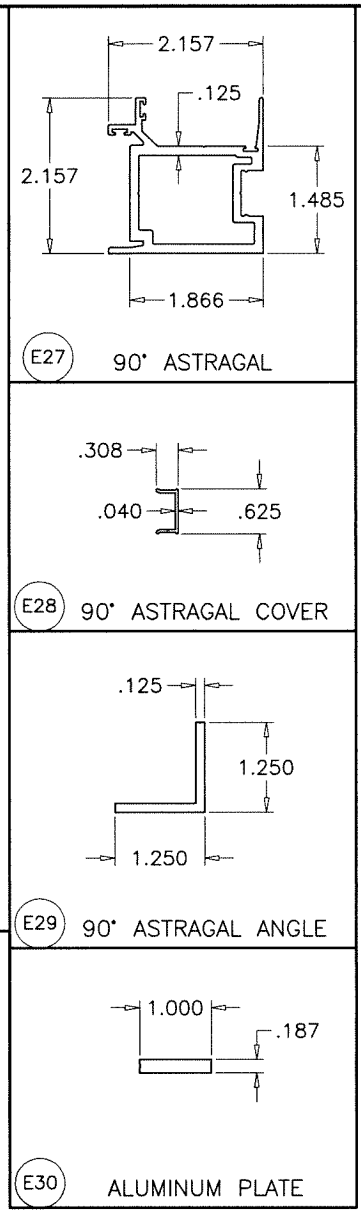
M1

GLAZING GASKET
LAM. GLASS

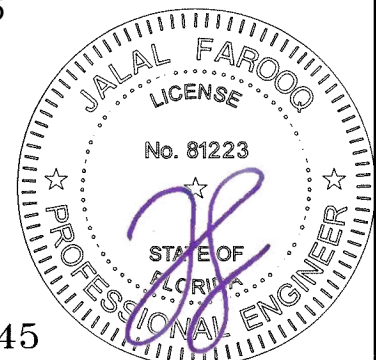
M2

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)



Sealed: 12/11/2025



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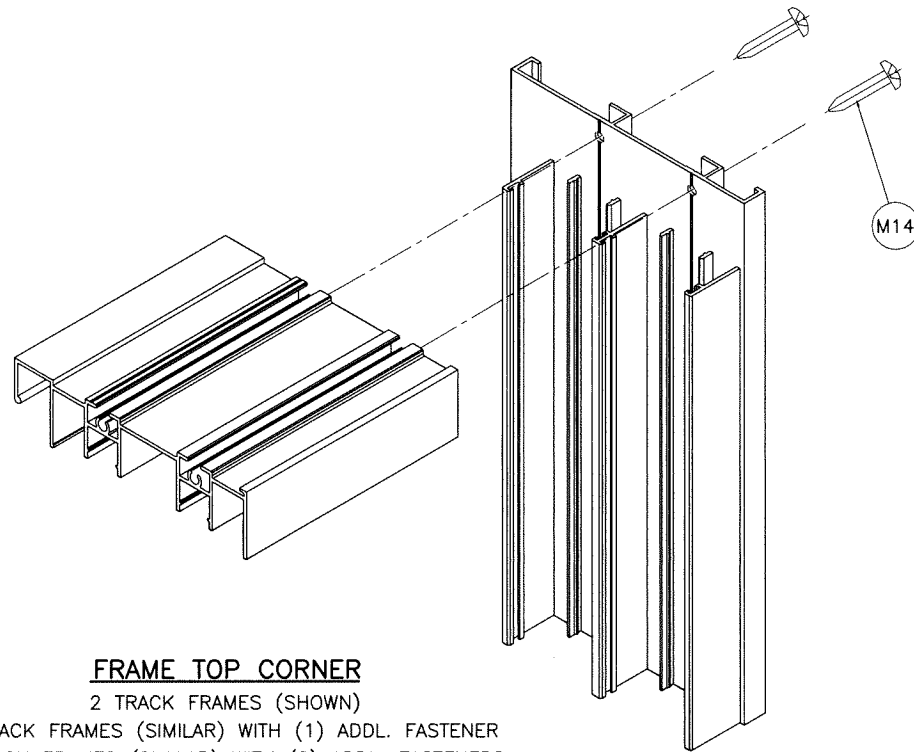
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drawing no.

20-22F

sheet 22 of 23

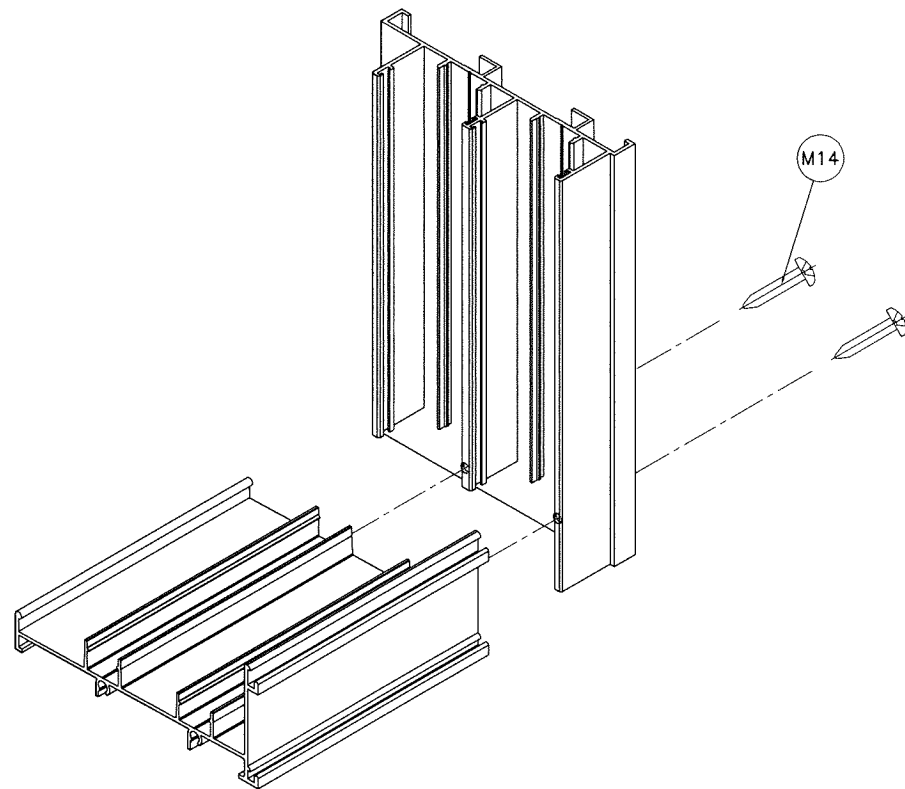


FRAME TOP CORNER

2 TRACK FRAMES (SHOWN)

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

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

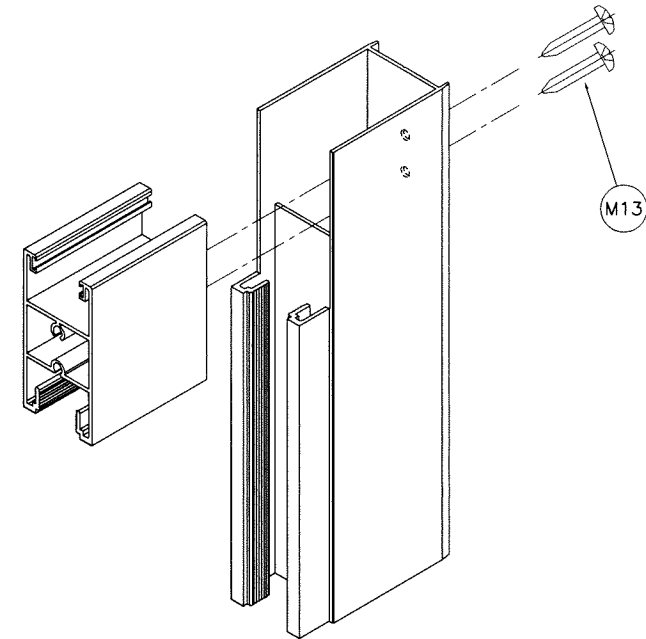


FRAME BOTTOM CORNER

2 TRACK FRAMES (SHOWN)

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

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

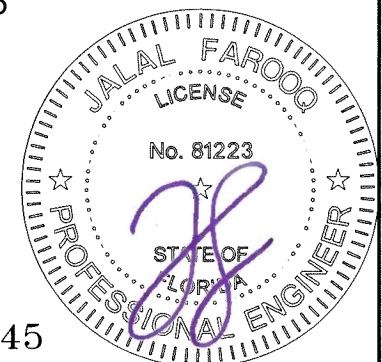


PANEL TOP/BOTTOM CORNER

LAM. GLASS RAIL & STILE (SHOWN)

INSUL. LAM. GLASS RAIL & STILE (SIMILAR)

Sealed: 12/11/2025



FL #22645

afc

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sheet 23 of 23