

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 NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

SERIES ES-EL400
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.

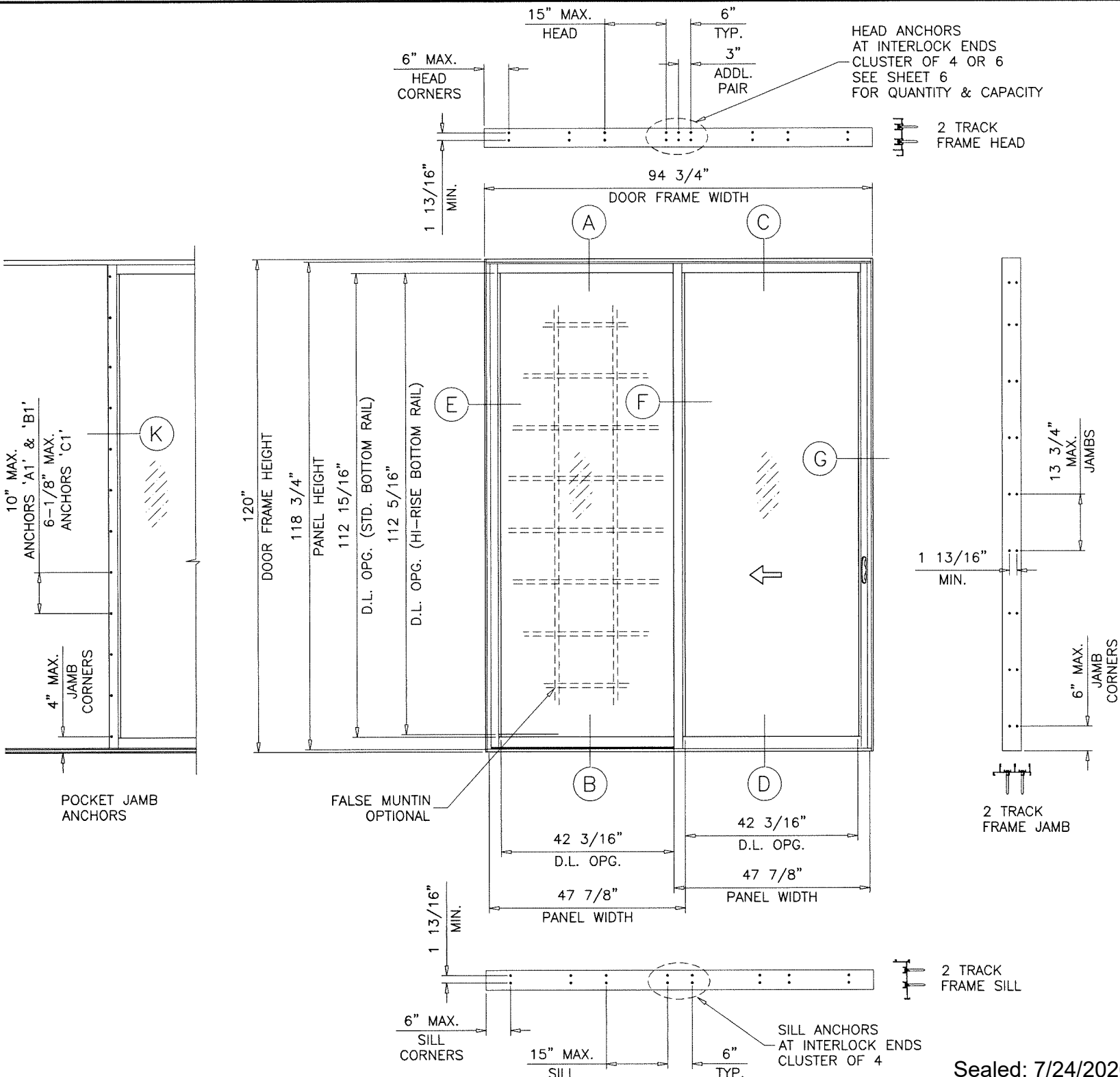
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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.

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: 7/24/2026

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\19-63F-ES

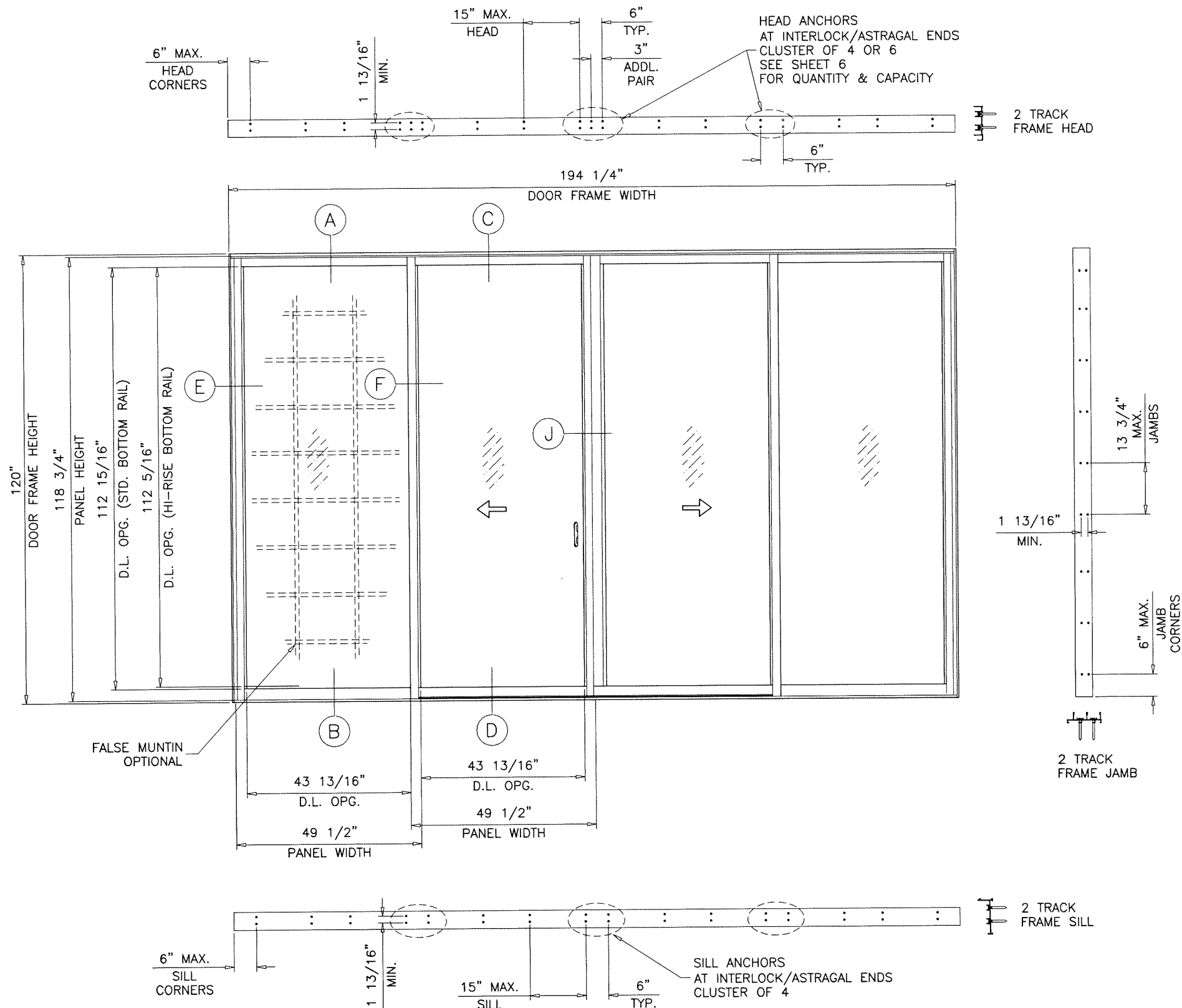
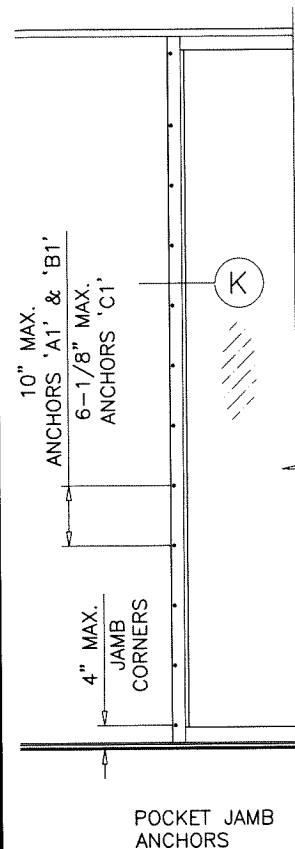
ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

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
	E	01.30.25		DOOR HT. REV. TO 120"
	F	08.14.25		NON WATER SILL OPTIONS ADDED
	G	11.11.25		HI-RISE BOTTOM RAIL ADDED
	H	07.20.26		UPDATED TO 2026 FBC

date: 07-14-19
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
19-63F
sheet 1 of 23



TYPICAL ELEVATION
OX-XO

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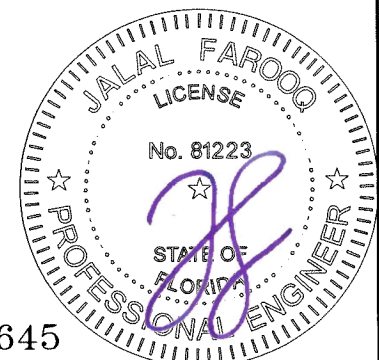
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dr. by: TARIQ

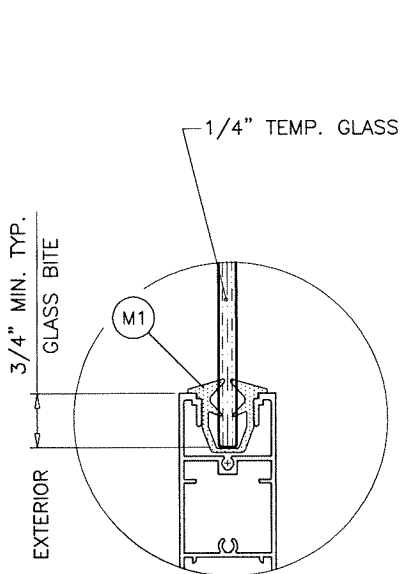
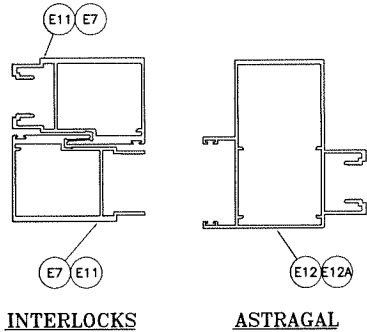
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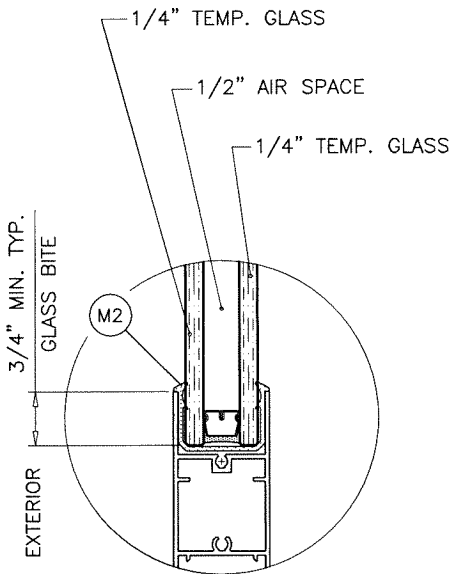
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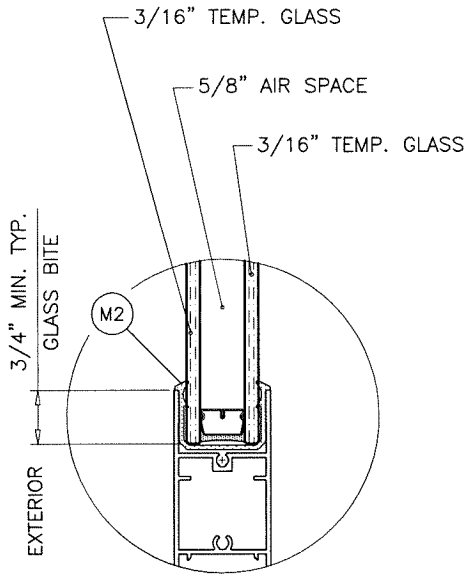
DESIGN LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'Bi'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	100.0	100.0	89.0	89.0
36		100.0	100.0	77.6	77.6
42		89.4	89.4	69.6	69.6
46		80.0	80.0	63.5	63.5
48		78.2	78.2	60.9	60.9
54		69.5	69.5	54.1	54.1
30	84	100.0	100.0	88.5	88.5
36		100.0	100.0	77.1	77.1
42		89.4	89.4	69.2	69.2
46		80.0	80.0	63.5	63.5
48		78.2	78.2	60.9	60.9
54		-	-	54.1	54.1
30	90	100.0	100.0	87.2	87.2
36		98.5	98.5	75.7	75.7
42		88.1	88.1	67.7	67.7
46		80.0	80.0	63.5	63.5
48		78.2	78.2	60.9	60.9
54		-	-	-	-
30	96	100.0	100.0	86.1	86.1
36		97.0	97.0	74.5	74.5
42		86.5	86.5	66.5	66.5
46		80.0	80.0	62.3	62.3
46-15/16		80.0	80.0	61.5	61.5
48.0		-	-	60.6	60.6
48-11/16		-	-	60.0	60.0



GLASS TYPE 'A'
MONOLITHIC GLASS



GLASS TYPE 'Ai'
1" OVERALL INSUL. GLASS



GLASS TYPE 'Bi'
1" OVERALL INSUL. GLASS

GLAZING OPTIONS

1/2" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOW CORNING 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

AVERAGE PANEL WIDTH = DOOR FRAME WIDTH
NUMBER OF PANELS

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

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.

LIMIT EXT.(+) LOADS FOR VARIOUS SILL HEIGHTS AS FOLLOWS.

3-11/16" SILL HEIGHT LIMIT EXT.(+) LOADS TO 80.0 PSF (2, 3 & 4 TRACKS) ALL PANEL SIZES

3-1/8" SILL HEIGHT LIMIT EXT.(+) LOADS TO 66.6 PSF (2, 3 & 4 TRACKS) MAX. PANEL AREA OF 31.3 SQ. FT.

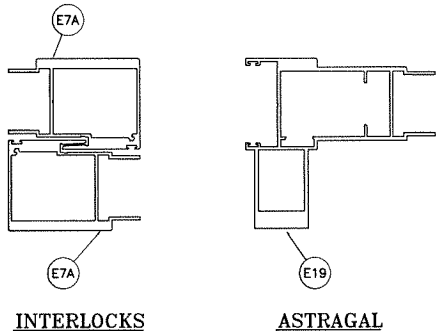
3-1/8" SILL HEIGHT LIMIT EXT.(+) LOADS TO 65.0 PSF (2, 3 & 4 TRACKS) ALL PANEL SIZES

2-3/4" SILL HEIGHT LIMIT EXT.(+) LOADS TO 53.3 PSF (2, 3 & 4 TRACKS) MAX. PANEL AREA OF 35.4 SQ. FT.

2" SILL HEIGHT (W/O RISER) LIMIT EXT.(+) LOADS TO 65.0 PSF (2 TRACKS ONLY) ALL PANEL SIZES

SEE SHEET 14 FOR DETAILS

DESIGN LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'Bi'	
		EXT.(+)	INT.(-)
30	84	97.5	97.5
36		87.9	87.9
42		75.3	75.3
48		65.9	65.9
54		58.6	58.6
60		52.7	52.7
30	90	97.5	97.5
36		87.9	87.9
42		75.3	75.3
48		65.9	65.9
54		58.6	58.6
60		52.7	52.7
30	96	97.5	97.5
36		86.2	86.2
42		75.3	75.3
48		65.9	65.9
54		58.6	58.6
60		52.7	52.7
30	108	97.5	97.5
36		84.1	84.1
42		74.6	74.6
48		65.9	65.9
54		58.6	58.6
60		52.7	52.7
30	120	96.1	96.1
36		82.4	82.4
42		72.8	72.8
48		65.7	65.7
48-11/16		65.0	65.0



Sealed: 7/24/2026



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dr. by:	TARIQ
chk. by:	

drawing no.	19-63F
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" 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	8 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. (-)	EXT. (+) INT. (-)
30	82	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36		100.0	100.0	100.0	100.0	83.5	100.0	100.0	100.0	100.0	100.0
42		100.0	100.0	92.0	100.0	71.5	95.4	100.0	100.0	92.4	100.0
46		94.8	100.0	84.0	100.0	65.3	87.1	100.0	100.0	84.3	100.0
48		90.9	100.0	80.5	100.0	62.6	83.5	100.0	100.0	80.8	100.0
54		80.8	100.0	71.6	95.4	55.6	74.2	92.7	100.0	71.8	95.8
60		72.7	96.9	64.4	85.9	50.1	66.8	83.5	92.7	64.7	86.2
30	84	100.0	100.0	100.0	100.0	97.8	100.0	100.0	100.0	100.0	100.0
36		100.0	100.0	100.0	100.0	81.5	100.0	100.0	100.0	100.0	100.0
42		100.0	100.0	89.8	100.0	69.8	93.1	100.0	100.0	90.2	100.0
46		92.6	100.0	82.0	100.0	63.8	85.0	100.0	100.0	82.3	100.0
48		88.7	100.0	78.6	100.0	61.1	81.5	100.0	100.0	78.9	100.0
54		78.9	97.5	69.9	93.2	54.3	72.4	90.5	97.5	70.1	93.5
60		71.0	94.6	62.9	83.8	48.9	65.2	81.5	90.5	63.1	84.2
30	90	100.0	100.0	100.0	100.0	91.3	100.0	100.0	100.0	100.0	100.0
36		100.0	100.0	97.8	100.0	76.1	100.0	100.0	100.0	98.2	100.0
42		94.6	100.0	83.8	100.0	65.2	86.9	100.0	100.0	84.2	100.0
46		86.4	100.0	76.5	100.0	59.5	79.4	99.2	100.0	76.8	100.0
48		82.8	100.0	73.4	97.8	57.0	76.1	95.1	100.0	73.6	98.2
54		73.6	97.5	65.2	86.9	50.7	67.6	84.5	93.9	65.5	87.3
60		66.2	88.3	58.7	78.3	45.6	60.8	76.1	84.5	58.9	78.5
30	96	100.0	100.0	100.0	100.0	85.6	100.0	100.0	100.0	100.0	100.0
36		100.0	100.0	91.7	100.0	71.3	95.1	100.0	100.0	92.1	100.0
42		88.7	100.0	78.6	100.0	61.1	81.5	100.0	100.0	78.9	100.0
46-15/16		79.4	100.0	70.3	93.8	54.7	72.9	91.1	100.0	70.6	94.1
48		77.6	97.5	68.8	91.7	53.5	71.3	89.1	97.5	69.0	92.1
48-11/16		76.5	97.5	67.8	90.4	52.7	70.3	87.9	97.5	68.1	90.8
54		69.0	92.0	61.1	81.5	47.5	63.4	79.2	88.0	61.4	81.8
60		62.1	82.8	55.0	73.4	42.8	57.0	71.3	79.2	55.2	73.6
30	108	97.5	97.5	97.5	97.5	76.1	97.5	97.5	97.5	97.5	97.5
36		92.0	97.5	81.5	97.5	63.4	84.5	97.5	97.5	81.8	97.5
42		78.9	97.5	69.9	93.2	54.3	72.4	90.5	97.5	70.1	93.5
48		69.0	92.0	61.1	81.5	47.5	63.4	79.2	88.0	61.4	81.8
54		61.3	81.8	54.3	72.5	42.3	56.3	70.4	78.2	54.5	72.7
30	120	97.5	97.5	88.0	97.5	68.4	91.3	97.5	97.5	88.4	97.5
36		82.8	97.5	73.4	97.5	57.0	76.1	95.1	97.5	73.6	97.5
42		71.0	94.6	62.9	83.8	48.9	65.2	81.5	90.5	63.1	84.2
48		62.1	82.8	55.0	73.4	42.8	57.0	71.3	79.2	55.2	73.6
48-11/16		61.2	65.0	54.2	65.0	42.2	56.2	65.0	65.0	54.5	65.0

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

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

SILL AND JAMB ANCHORS MEET LOAD LIMITATIONS OF CHART ON SHEET 5 AS DETAILED ON ELEVATIONS AND ON SHEETS 14 AND 16.

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

Sealed: 7/24/2026



FL #22645

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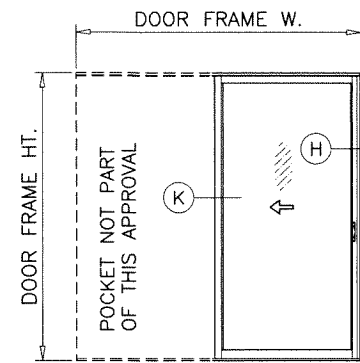
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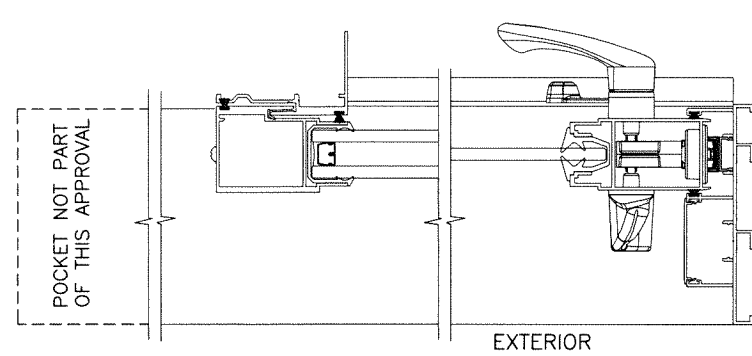
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sheet 6 of 23

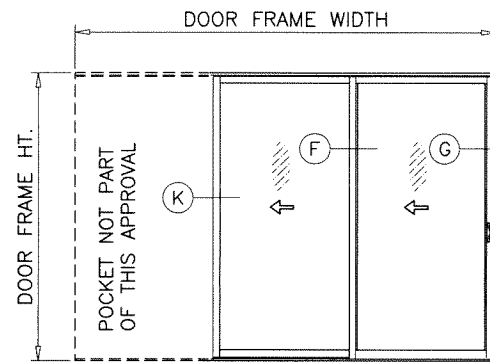
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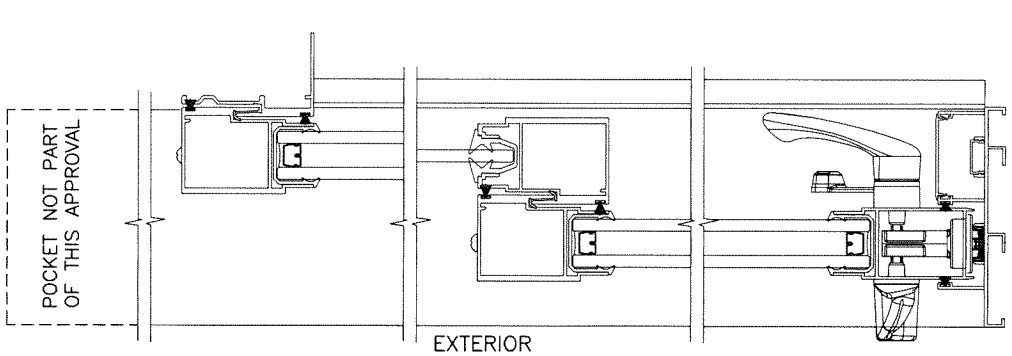
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XP



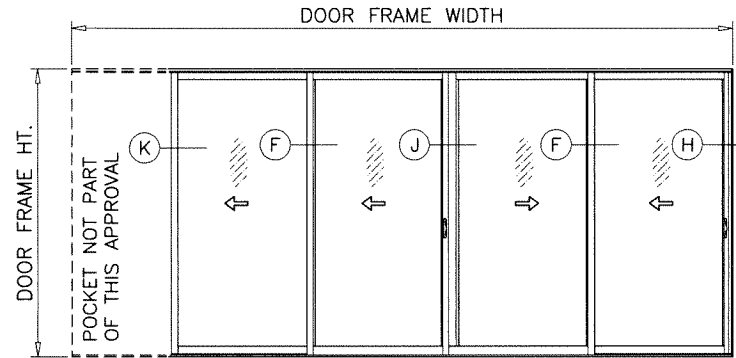
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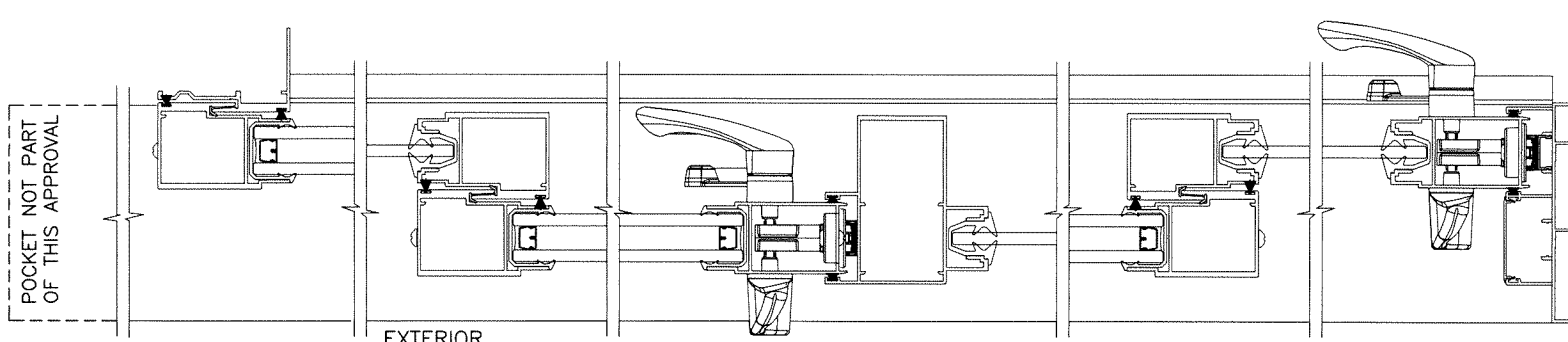
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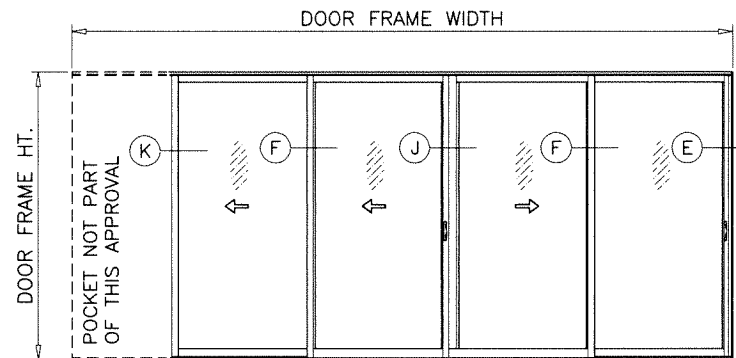
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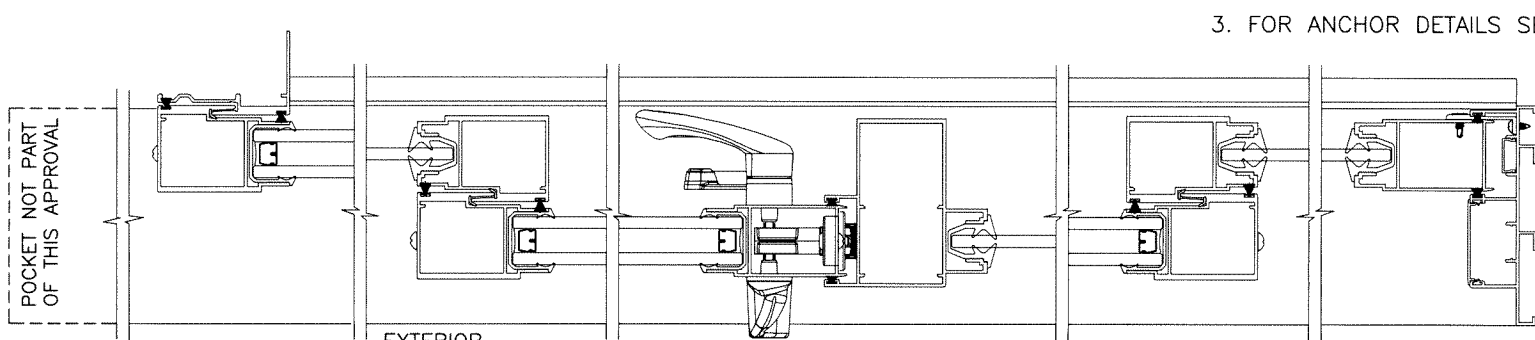
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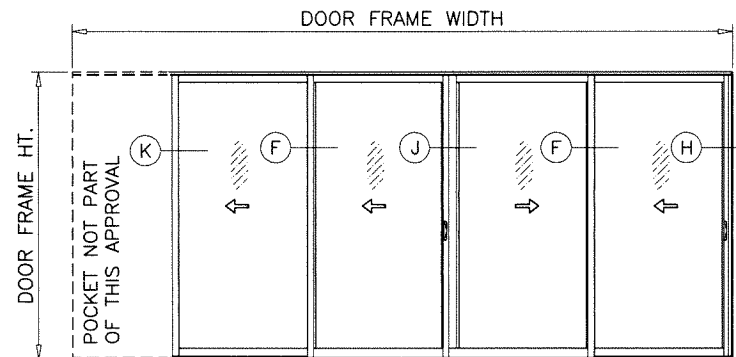
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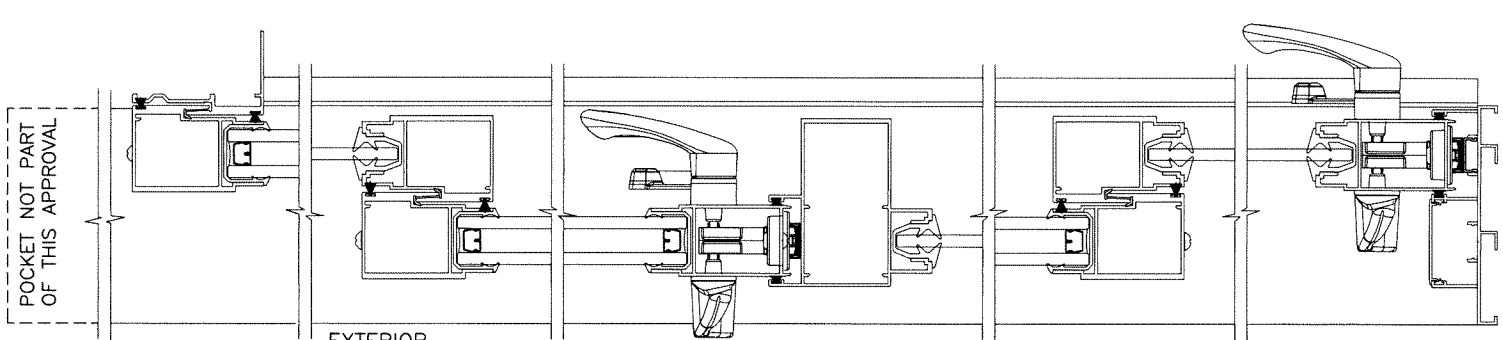
PXX-XO (SHOWN)
OX-XXP



EXTERIOR



PXX-XX (SHOWN)
XX-XXP
PXX-XXP



EXTERIOR

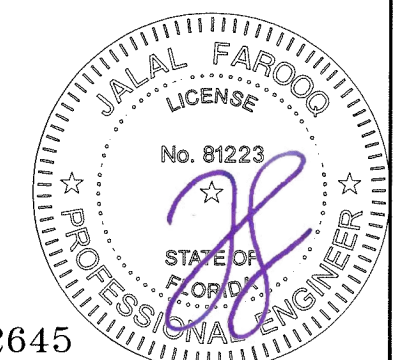
NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.

APPROVED CONFIGURATIONS
POCKETED DOORS
TWO (2) TRACKS

Sealed: 7/24/2026

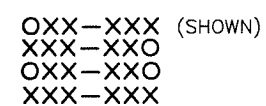
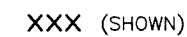
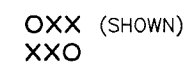
FL #22645



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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\19-63F-ES

ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.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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dr. by:	TARIQ	chk. by:	
drawing no.	19-63F	sheet	8 of 23

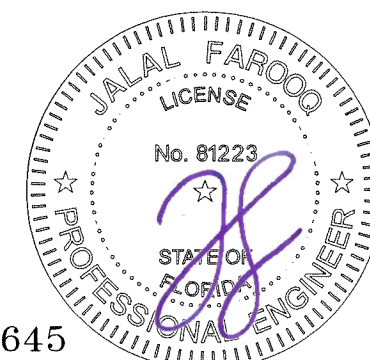


1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS

Sealed: 7/24/2026

FL #22645



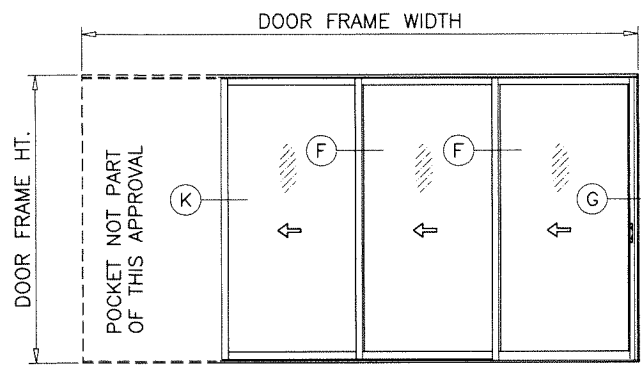
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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

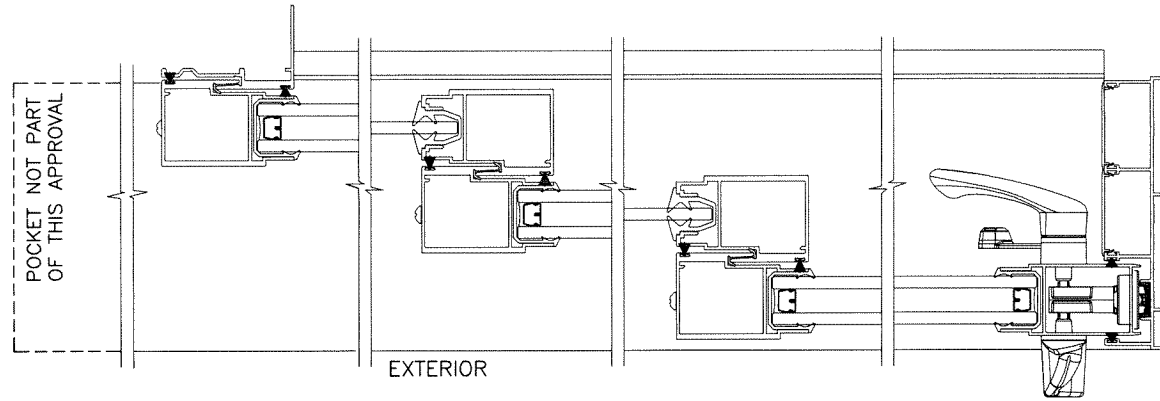
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX

COMP--ANL\19-63F-ES

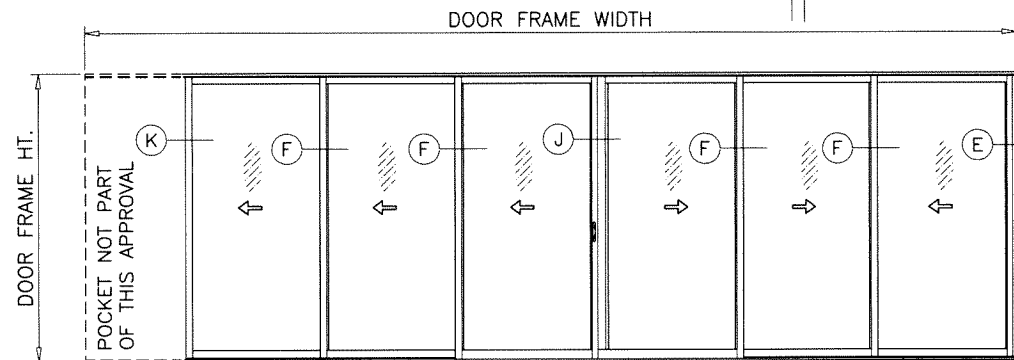
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chk. by:			
drawing no. 19-63F			
sheet 9 of 23			



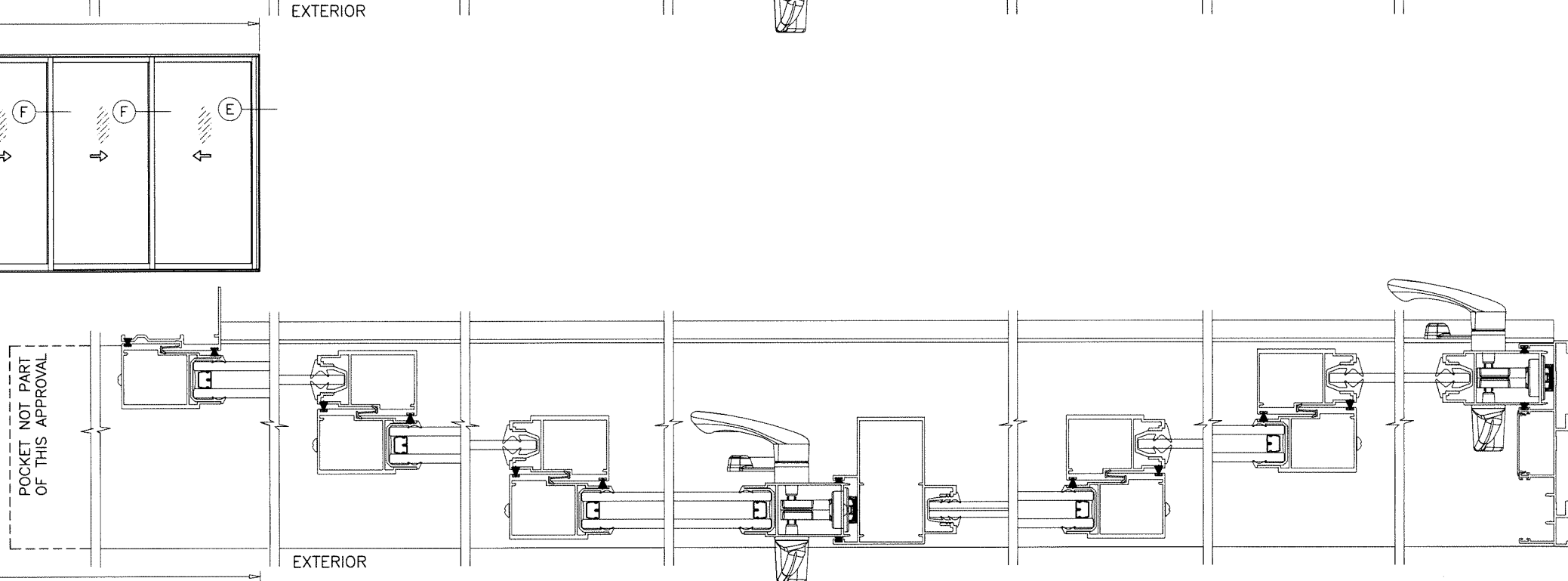
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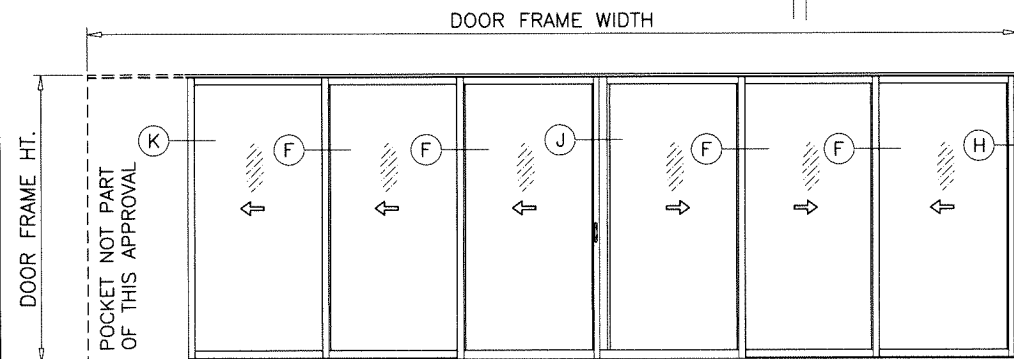
EXTERIOR



PXXX-XXO (SHOWN)
OXX-XXXX



EXTERIOR



PXXX-XXX (SHOWN)
XXX-XXXX
PXXX-XXXX

APPROVED CONFIGURATIONS
POCKETED DOORS
THREE (3) TRACKS

NOTE:

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FL #22645

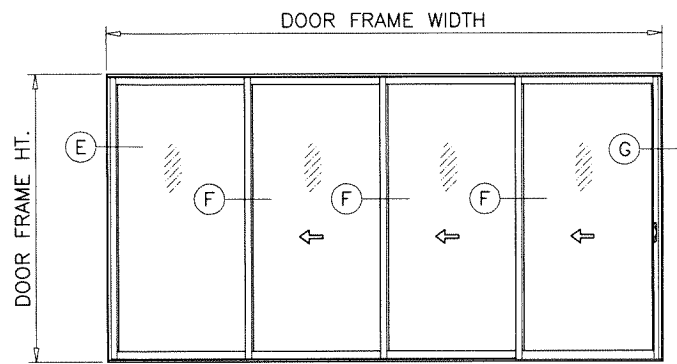
al-farooq
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

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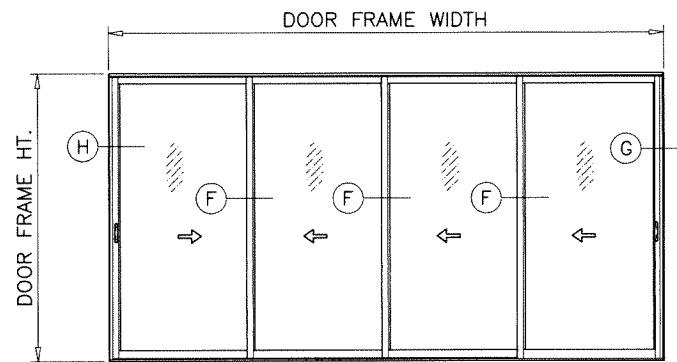
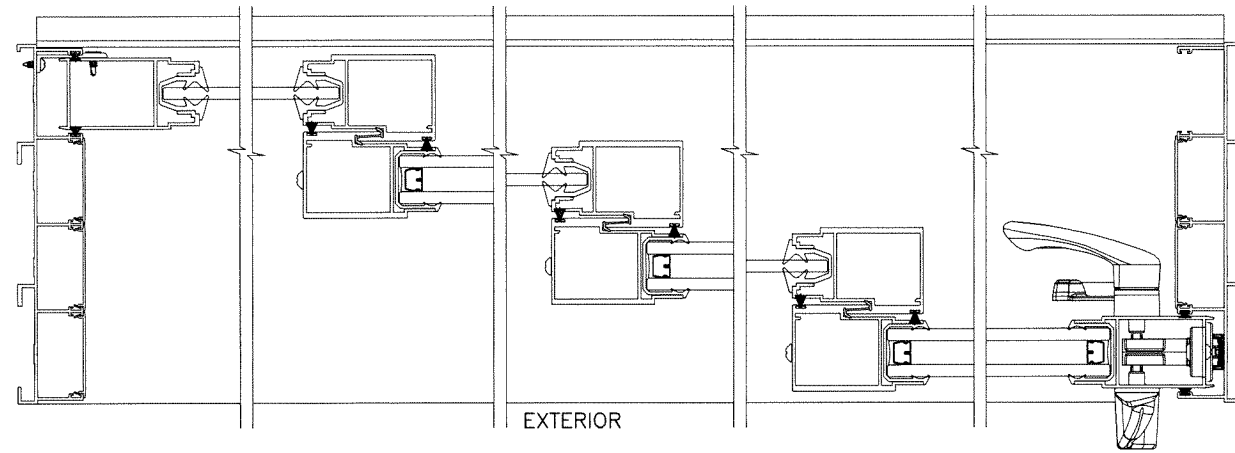
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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drawing no.		19-63F	
sheet 10 of 23			

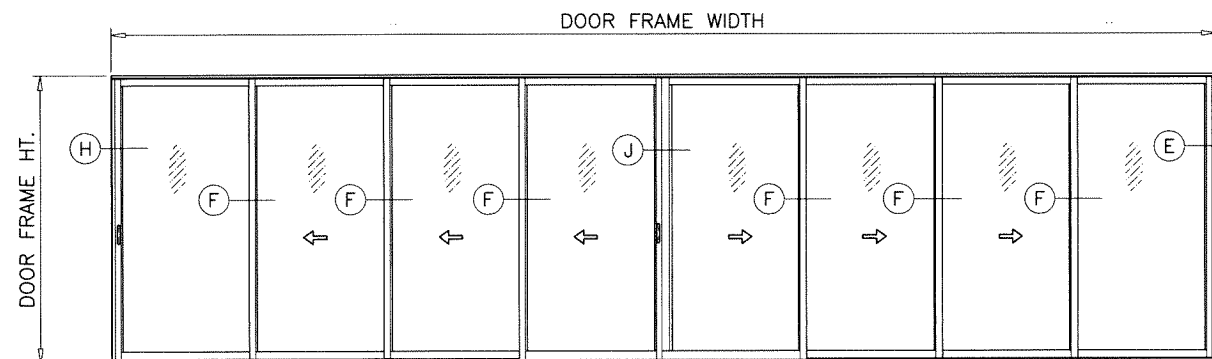
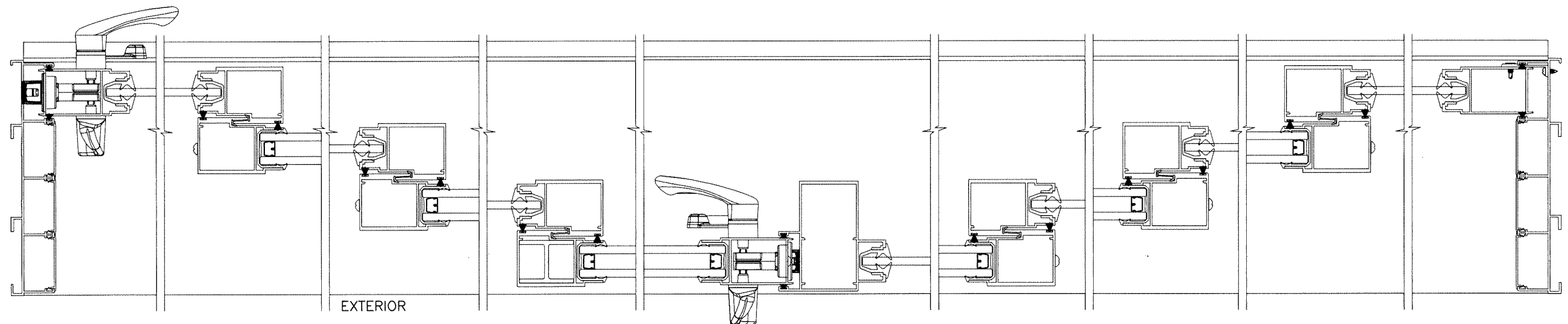
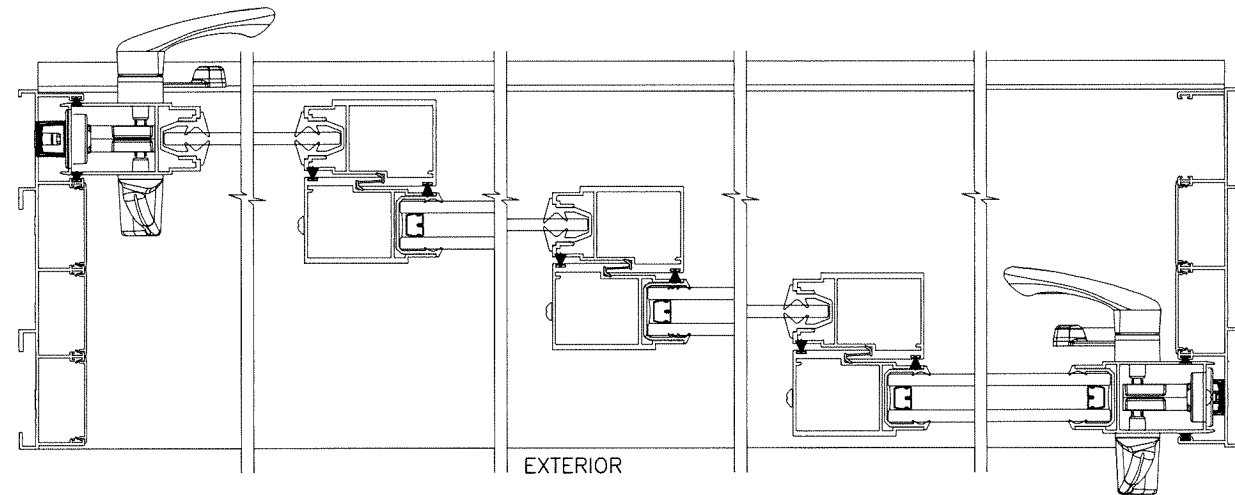
COMP-ANL\19-63F-ES



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XXXX (SHOWN)



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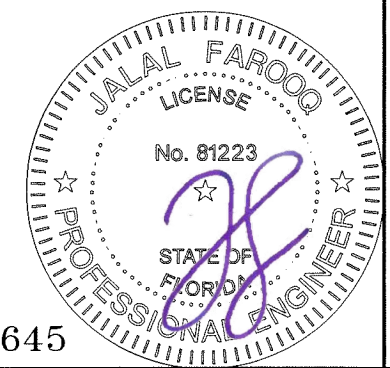
APPROVED CONFIGURATIONS
NON-POCKETED DOORS
FOUR (4) TRACKS

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.

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FL #22645



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9360 SUNSET DRIVE, SUITE 220
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(C.A.N. 3538)

ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

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

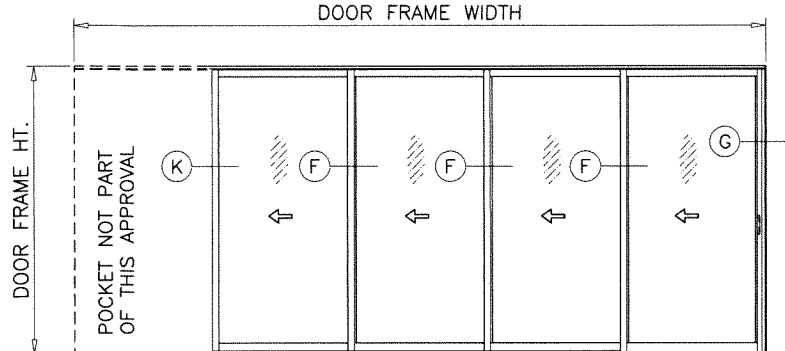
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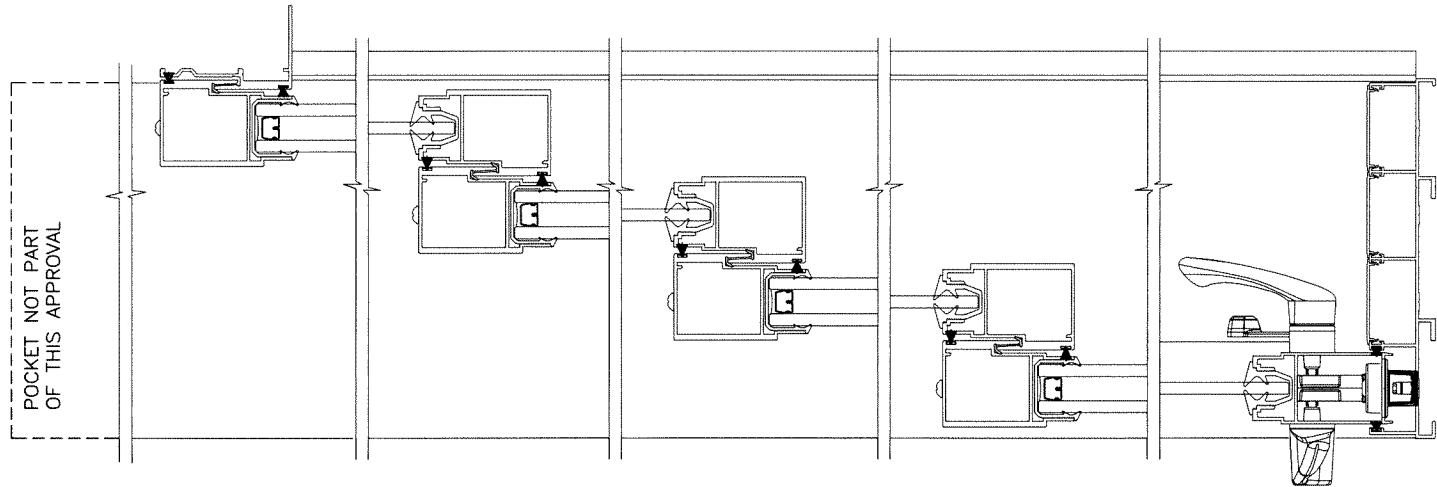
drawing no.

19-63F

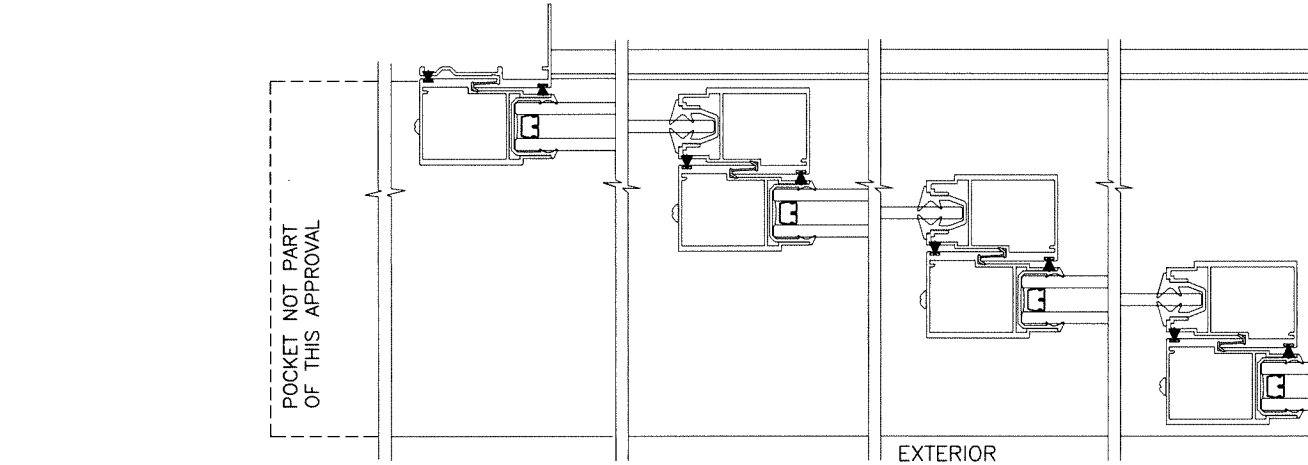
sheet 11 of 23



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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.



PXXXX-XXXXO (SHOWN)
OXXX-XXXXP

APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

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FL #22645



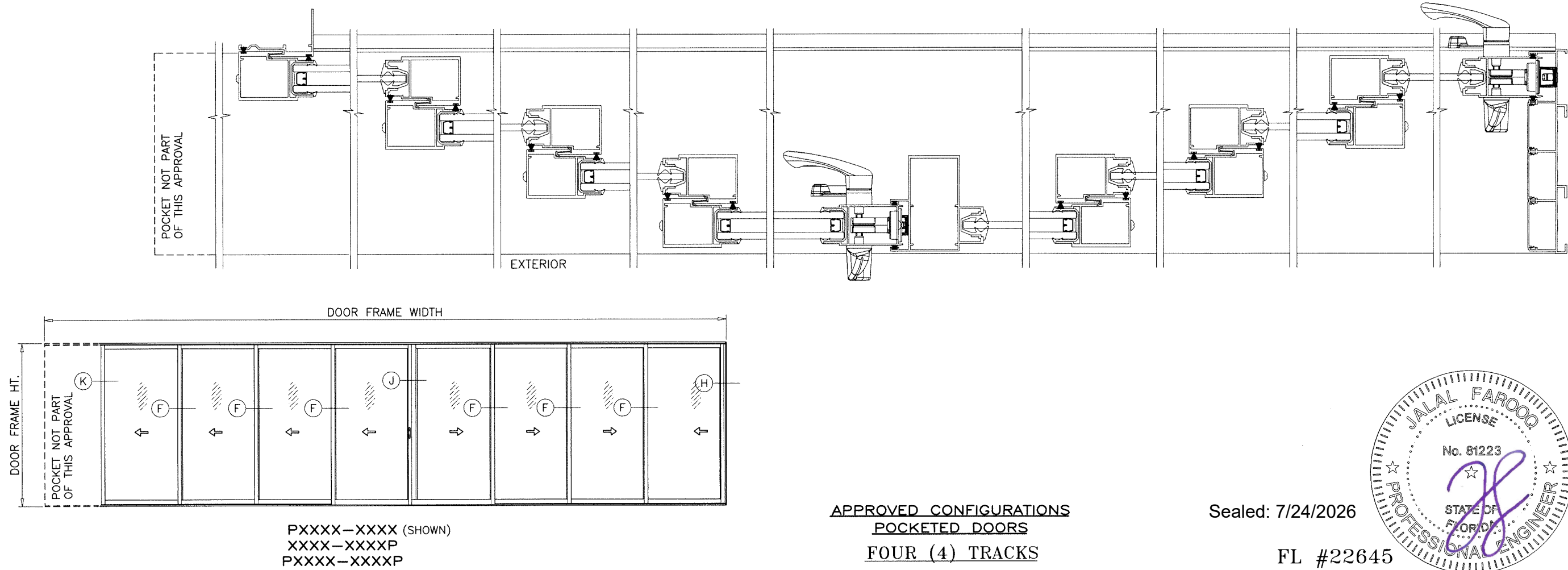
ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

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drawing no.
19-63F
sheet 12 of 23

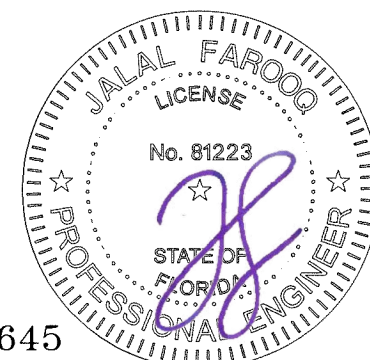


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PXXXX-XXXXP

APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
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3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.



ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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by description

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19-63F

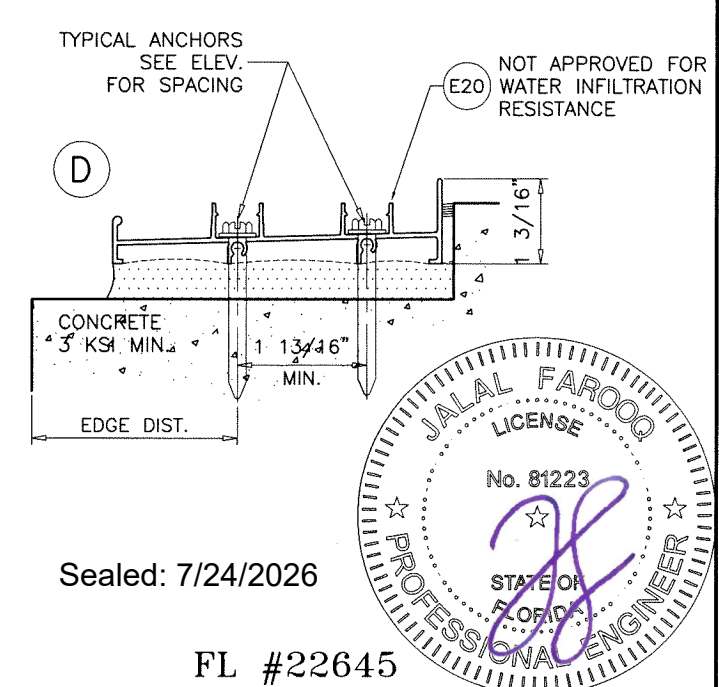
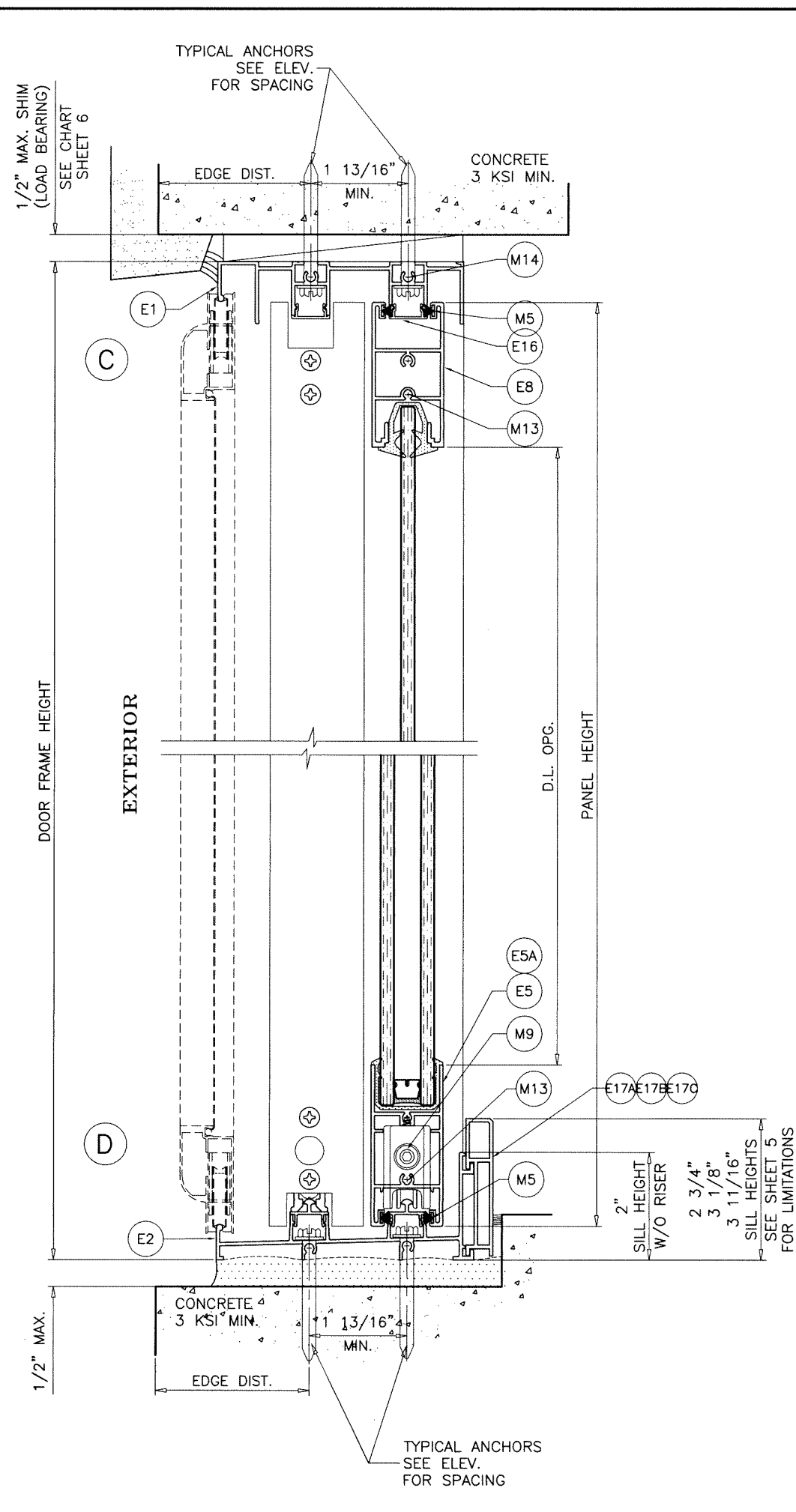
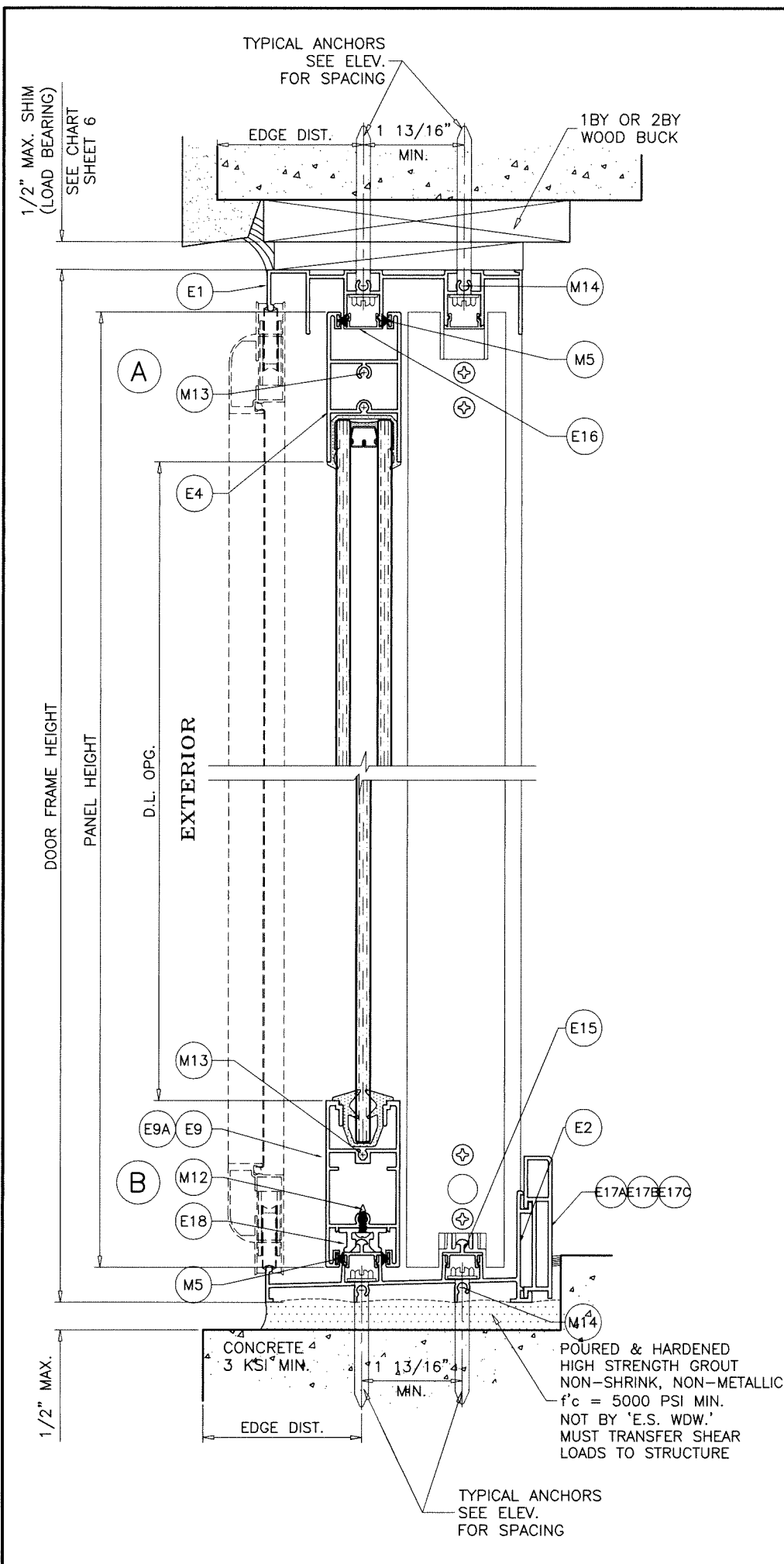
sheet 13 of 23

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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FL #22645



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

19-63F

sheet 14 of 23

revisions:	
no	date by description

date: 07-14-19	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:	drawing no. 19-63F
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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 BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
THRU 2BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
- TYPE 'B'— **1/4" DIA. ULTRACON+ BY 'DEWALT'** ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
- 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

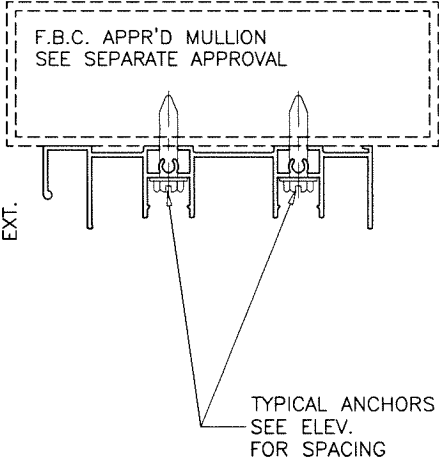
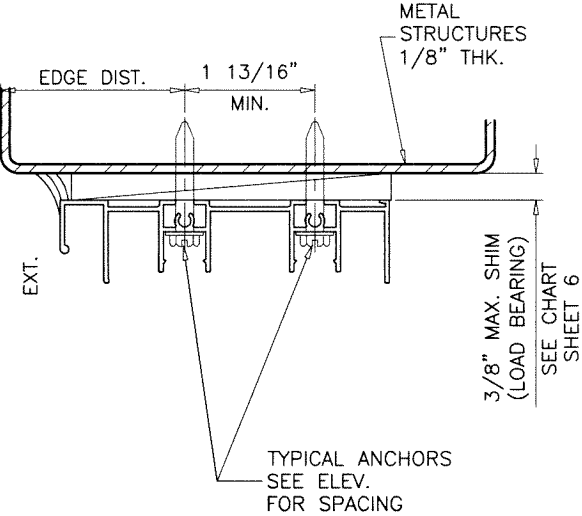
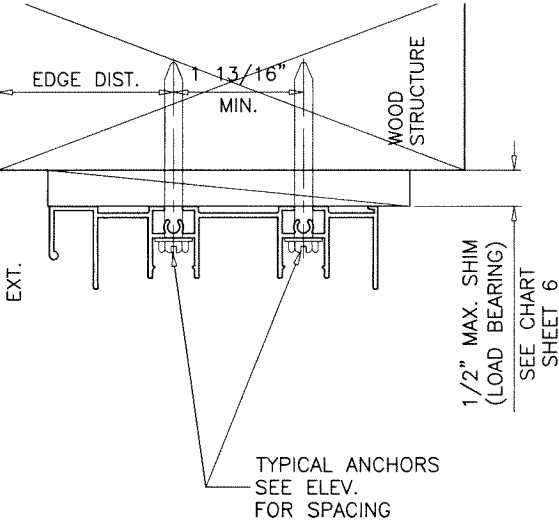
AT JAMBS

- 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 BUCKS INTO CONC. OR FILLED BLOCK
1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
1-3/4" MIN. EMBED INTO FILLED BLOCKS, 1-1/2" MIN. EDGE DIST.
- 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, 1-1/2" MIN. EDGE DIST.
2" MIN. EMBED INTO FILLED BLOCKS, 1-1/2" MIN. EDGE DIST.
- 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 = 2-1/2" MIN. (UNLESS SPECIFIED OTHERWISE)
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

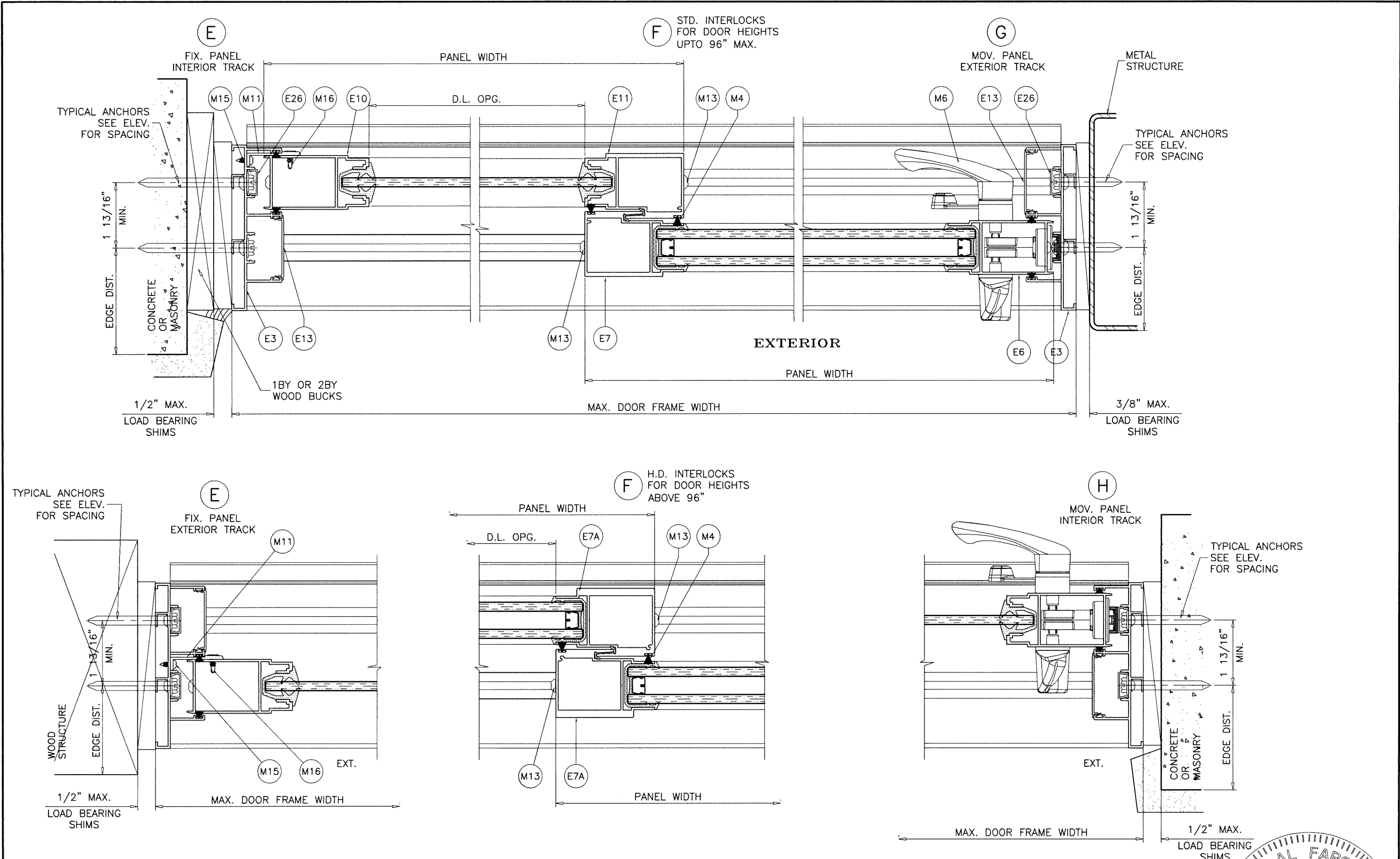
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
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ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

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

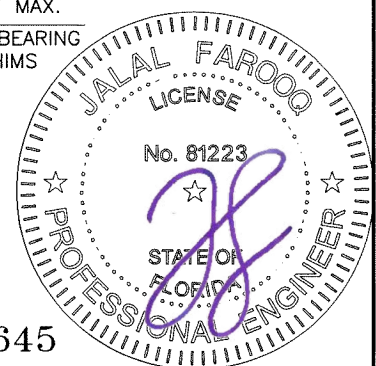
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drawing no. 19-63F			
sheet 15 of 23			



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FL #22645



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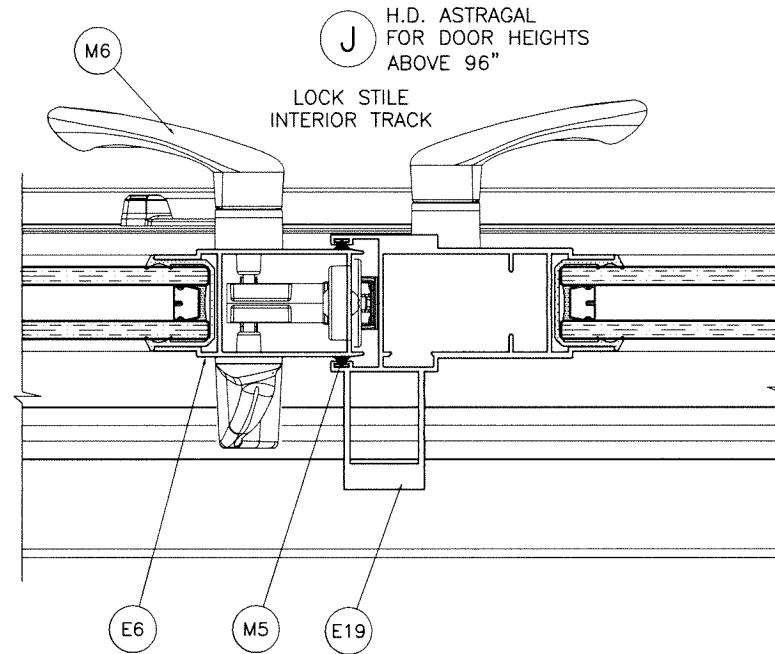
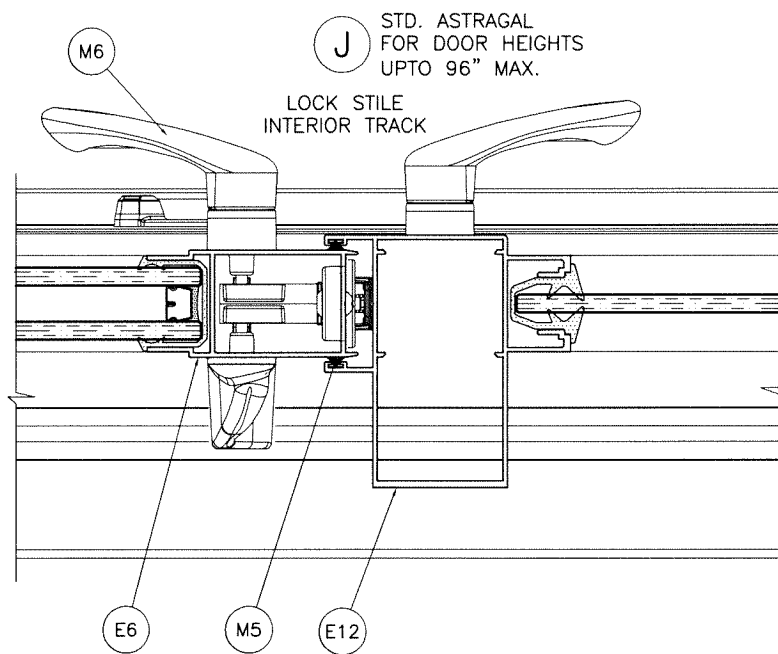
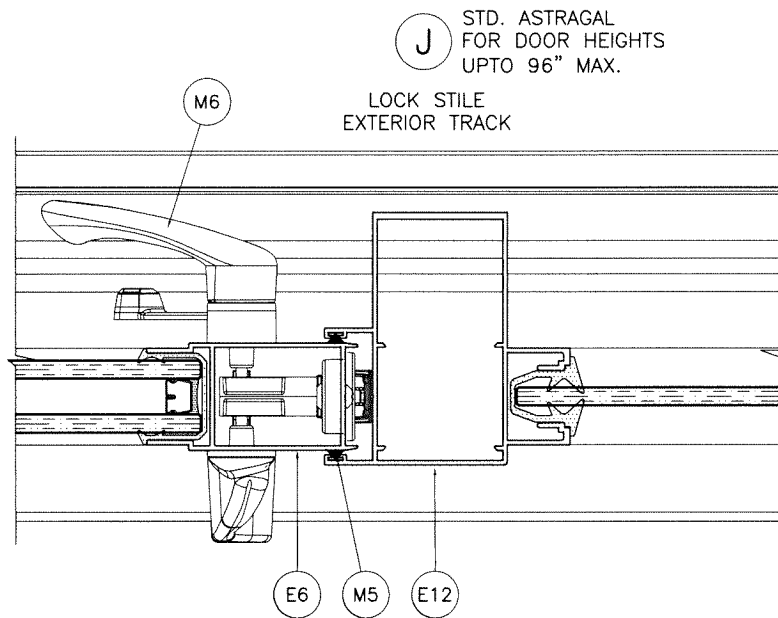
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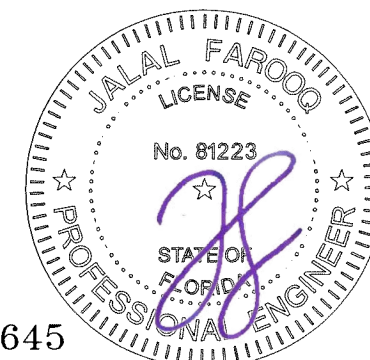
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sheet 16 of 23

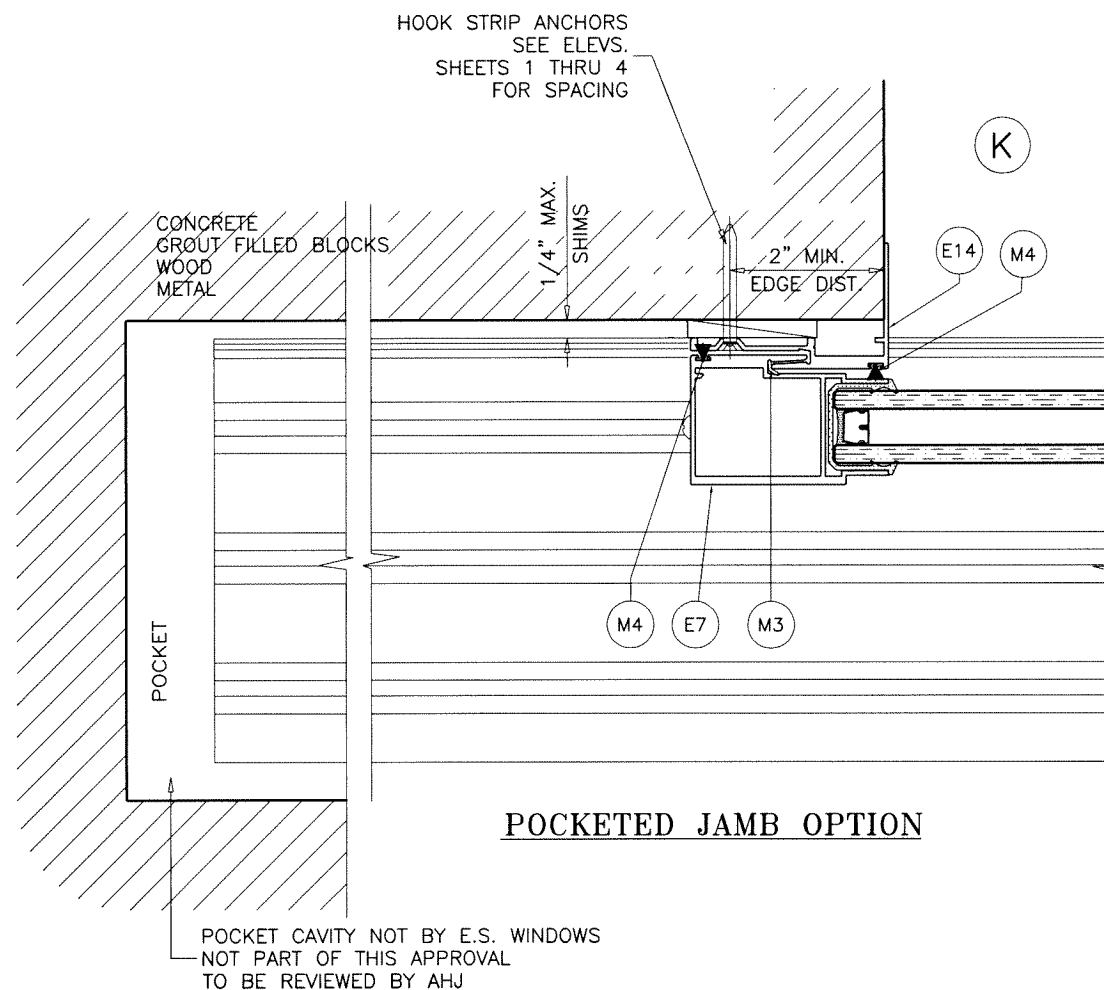


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FL #22645



AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)	
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158		drawing no. 19-63F	
sheet 16.1 of 23		COMP-ANL\19-63F-ES	



POCKETED JAMB OPTION

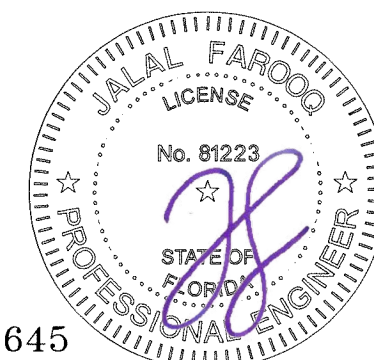
- HOOK STRIP ANCHORS:** SEE ELEV. FOR SPACING
- TYPE 'A1'— **1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS
- TYPE 'B1'— **#14 SMS** (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
- TYPE 'C1'— **#14 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
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)

TYPICAL EDGE DISTANCE

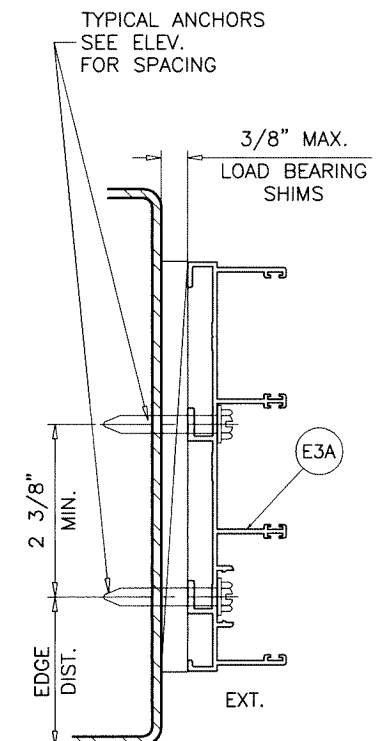
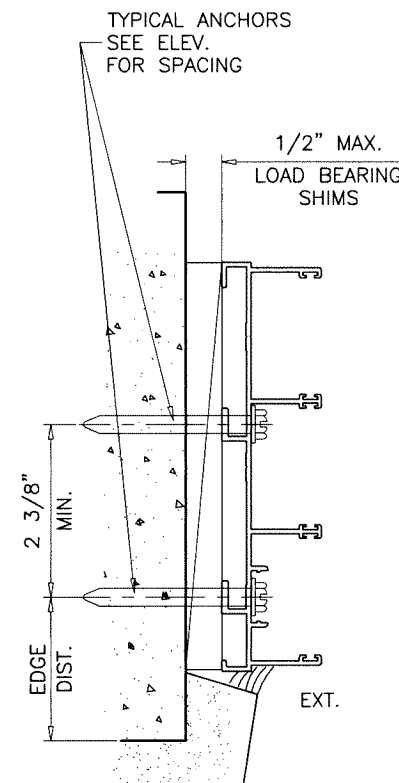
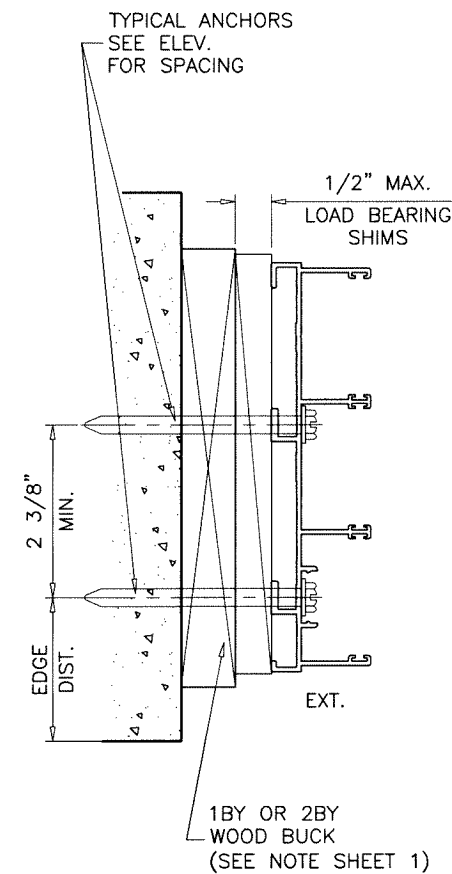
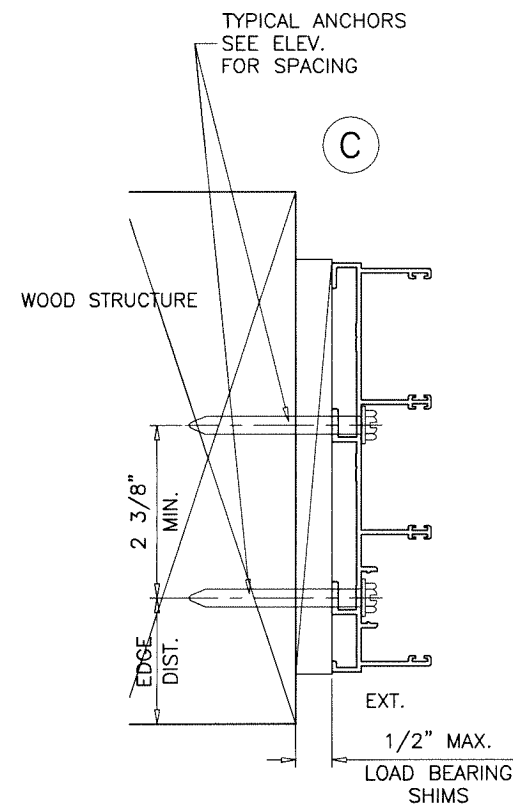
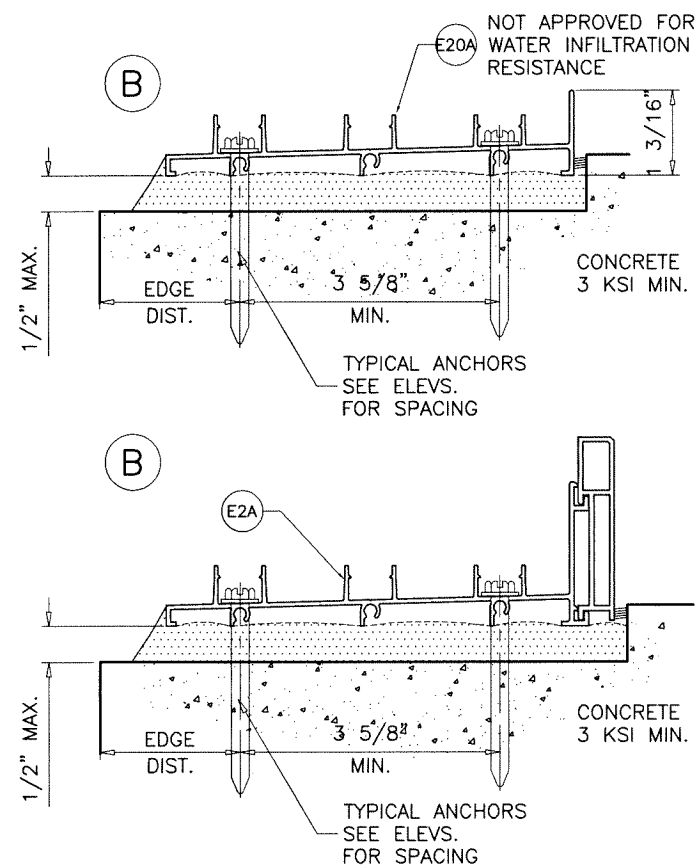
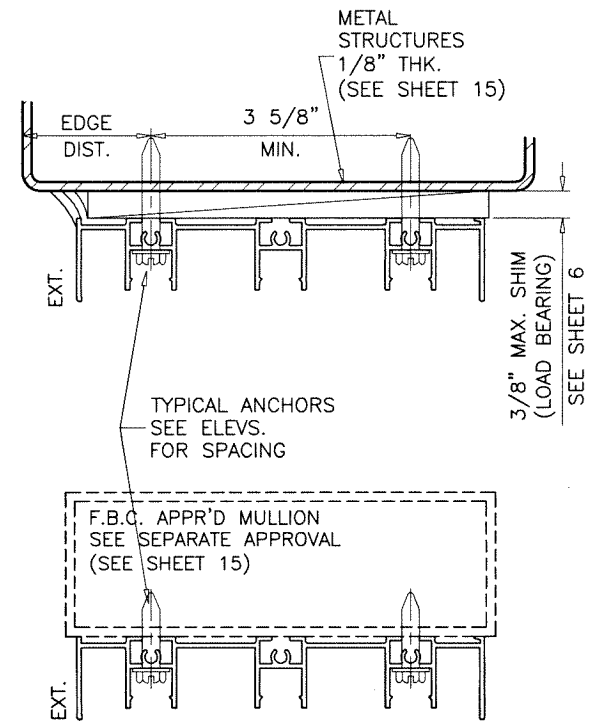
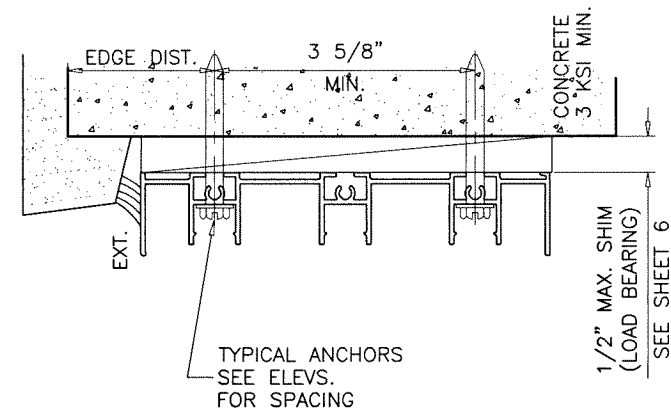
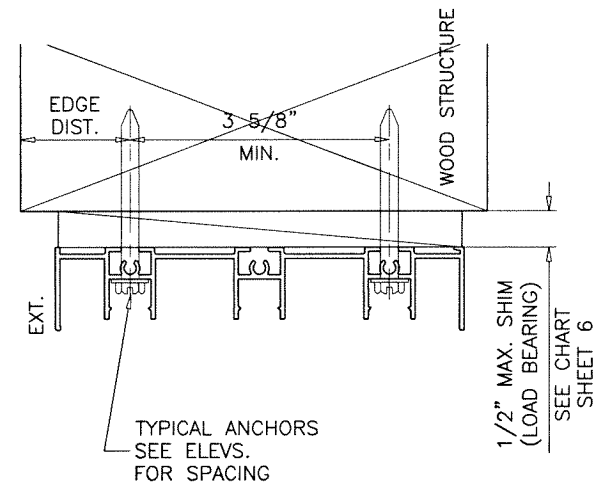
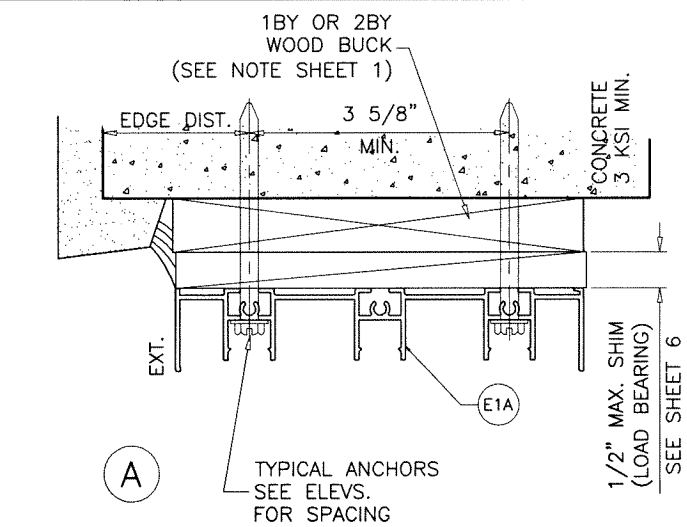
- INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

Sealed: 7/24/2026

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)		COMP-ANL 19-63F-ES	
ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.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: 07-14-19 scale: 3/8" = 1" dr. by: TARIQ chk. by:	drawing no. 19-63F sheet 17 of 23	



3 TRACK FRAMES

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FL #22645



ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

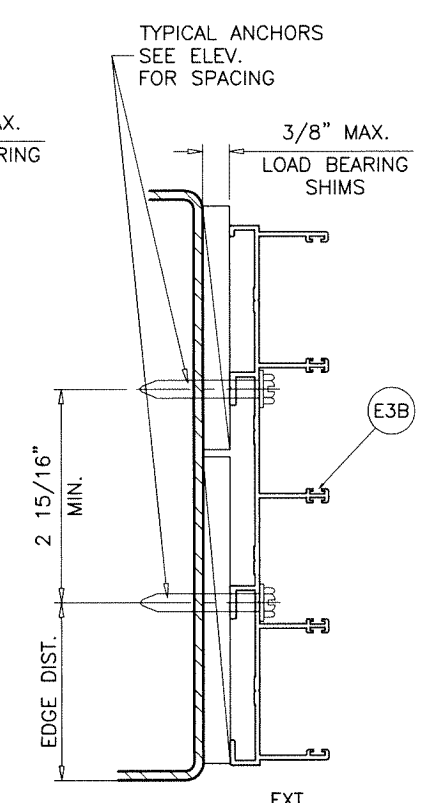
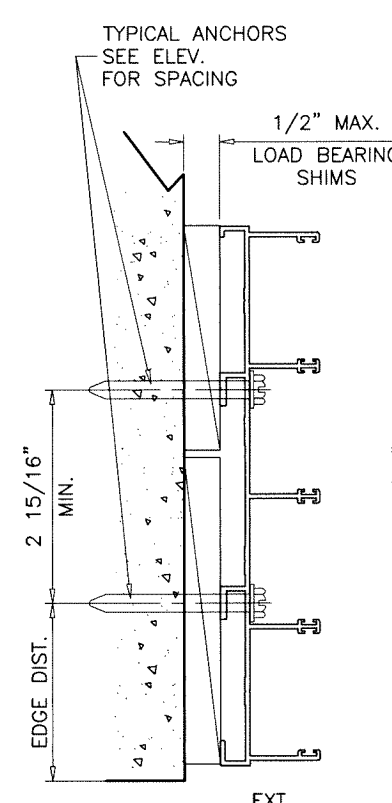
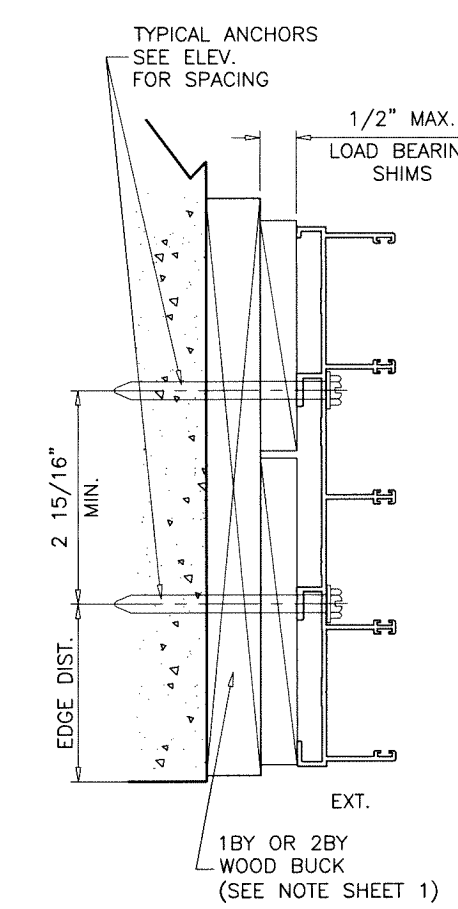
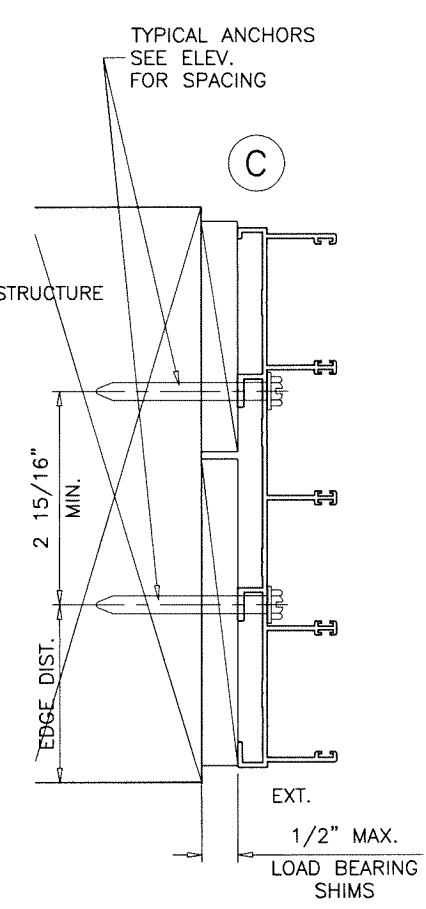
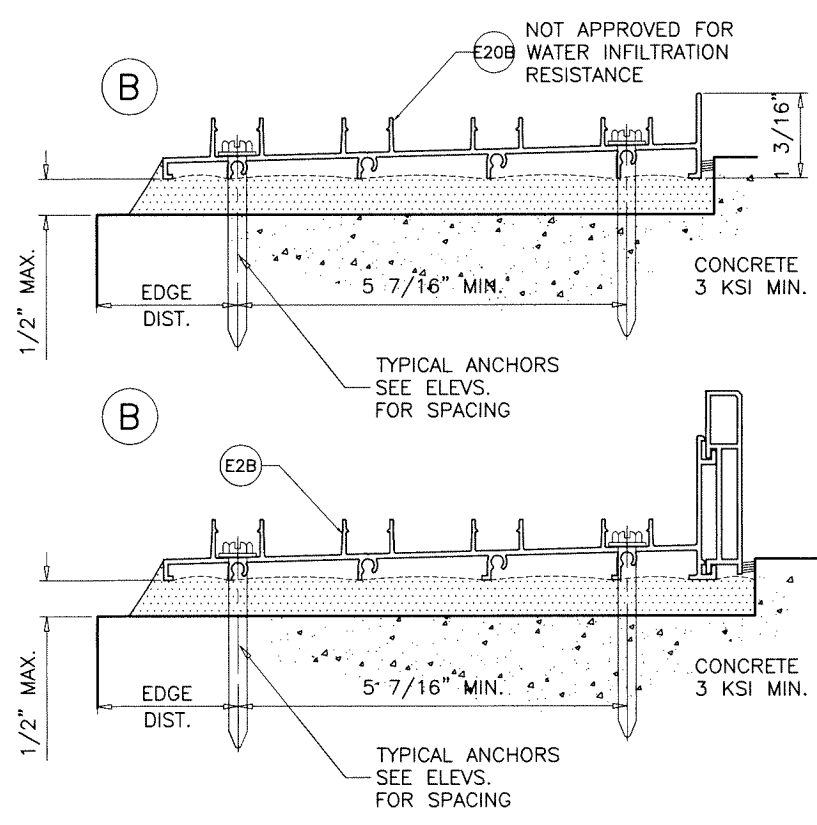
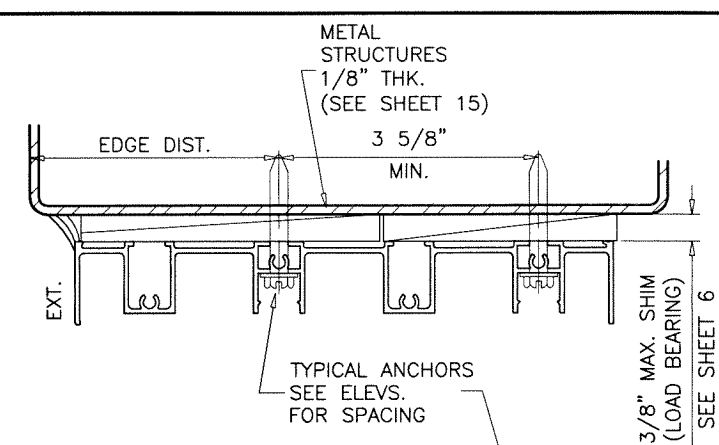
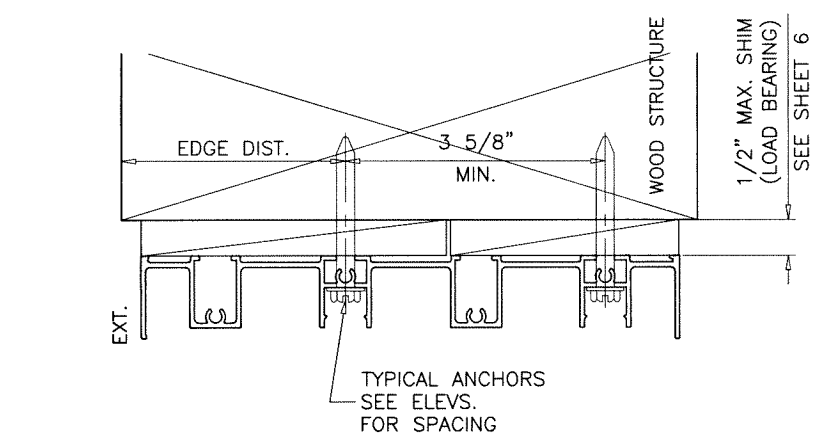
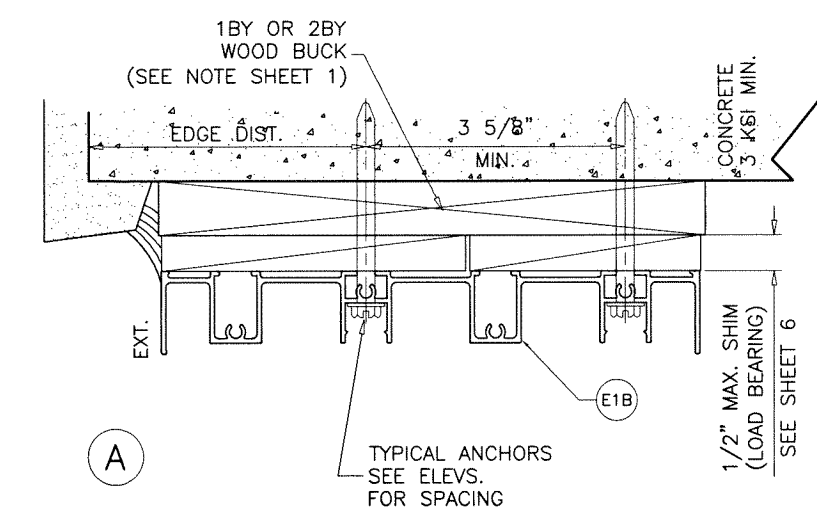
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMPAN\19

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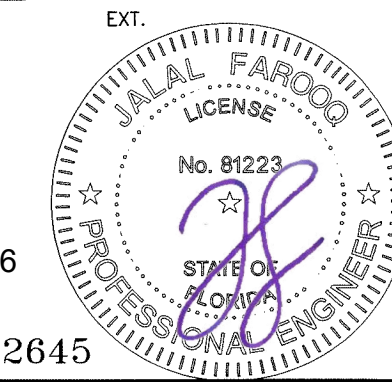
sheet 18 of 23



4 TRACK FRAMES
ANCHOR LOCATIONS

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FL #22645



AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\19-63F-ES

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ES-EL400 ALUMINUM SLIDING GLASS DOOR (N.I.)

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

(C.A.N. 3538)

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drawing no.		19-63F		
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. GLASS)	6063-T6	-
E5	ES-EL400-005	1/ PANEL	BOTTOM RAIL (STANDARD) (INSUL. GLASS)	6063-T6	-
E5A	ES-EL400-410A	1/ PANEL	BOTTOM RAIL (HI-RISE) (INSUL. GLASS)	6063-T6	-
E6	ES-EL400-006	AS REQD.	JAMB STILE (INSUL. GLASS)	6063-T6	-
E7	ES-EL400-007	AS REQD.	STD. INTERLOCK STILE (INSUL. GLASS)	6063-T6	-
E7A	ES-EL400-030	AS REQD.	H.D. INTERLOCK STILE (INSUL. GLASS)	6063-T6	-
E8	ES-EL400-009	1/ PANEL	TOP RAIL (MONOLITHIC GLASS)	6063-T6	-
E9	ES-EL400-010	1/ PANEL	BOTTOM RAIL (STANDARD) (MONOLITHIC GLASS)	6063-T6	-
E9A	ES-EL400-409A	1/ PANEL	BOTTOM RAIL (HI-RISE) (MONOLITHIC GLASS)	6063-T6	-
E10	ES-EL400-011	AS REQD.	JAMB STILE (MONOLITHIC GLASS)	6063-T6	-
E11	ES-EL400-012	AS REQD.	STD. INTERLOCK STILE (MONOLITHIC GLASS)	6063-T6	-
E12	ES-EL400-013	AS REQD.	STD. ASTRAGAL STILE (MONOLITHIC GLASS)	6063-T6	-
E12A	ES-EL400-008	AS REQD.	STD. ASTRAGAL STILE (INSUL. 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-2020-008	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-EL400-036	AS REQD.	H.D. HYBRID ASTRAGAL STILE (INSUL. GLASS)	6005-T5	-
E20	ES-EL400-401	1	FRAME SILL (2 TRACK)	6063-T6	-
E20A	ES-EL400-403	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E20B	ES-EL400-404	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
M1	ES-EL400-G03	4/ PANEL	GLAZING GASKET (MONOLITHIC GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M2	ES-EL400-G02	4/ PANEL	GLAZING GASKET (INSUL. 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	#12 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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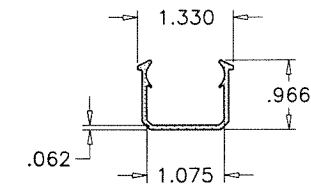
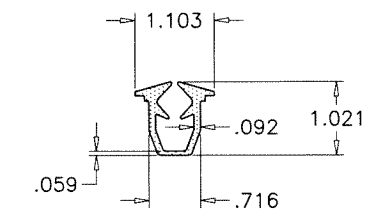
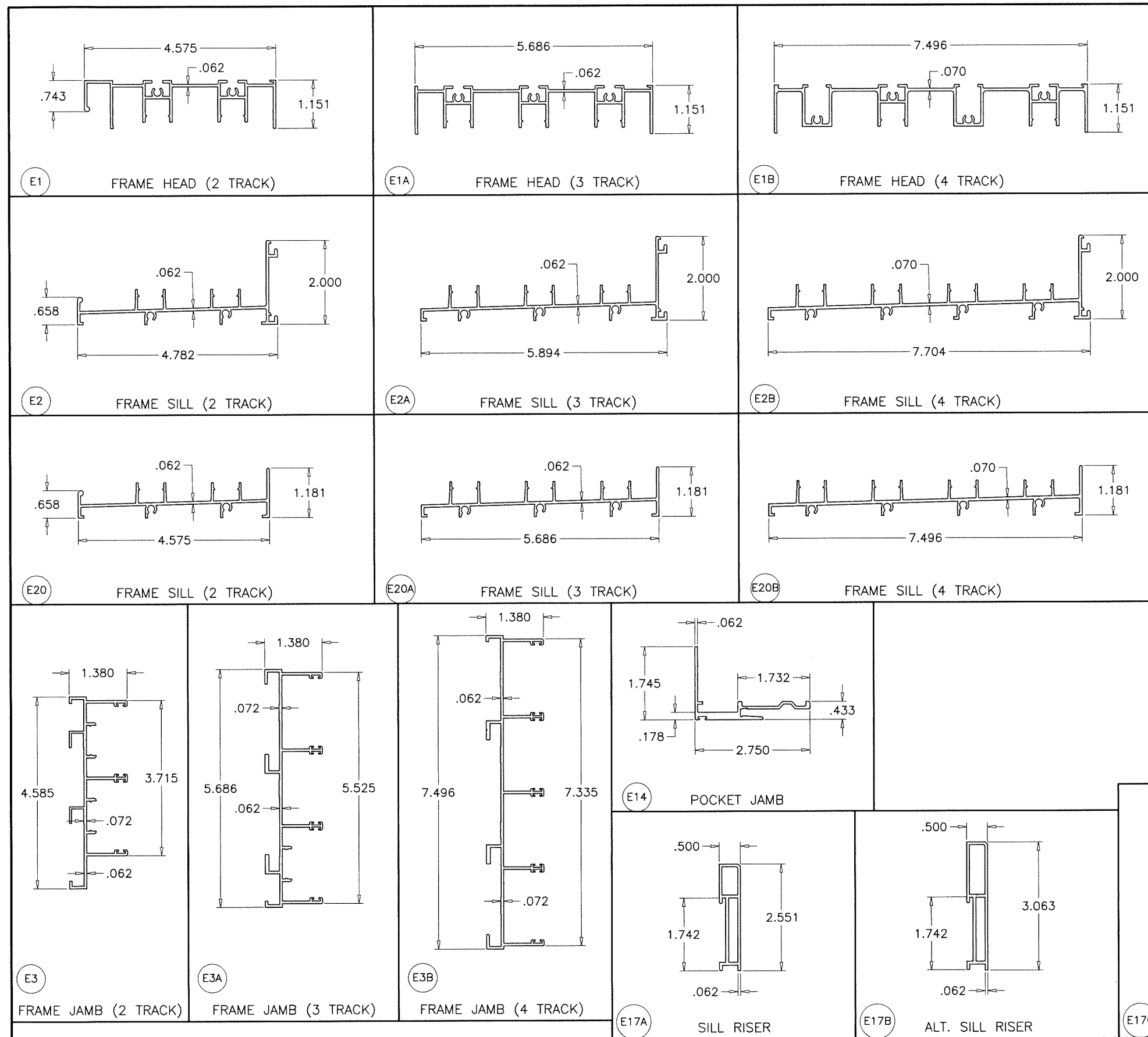
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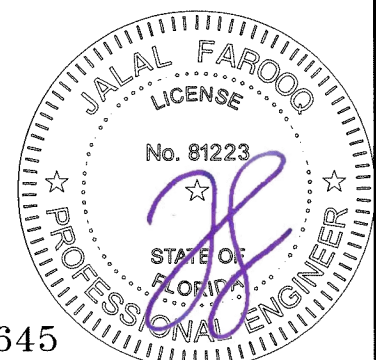
drawing no.
19-63F

sheet 20 of 23

COMP-ANL \ 19-63F-ES



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)



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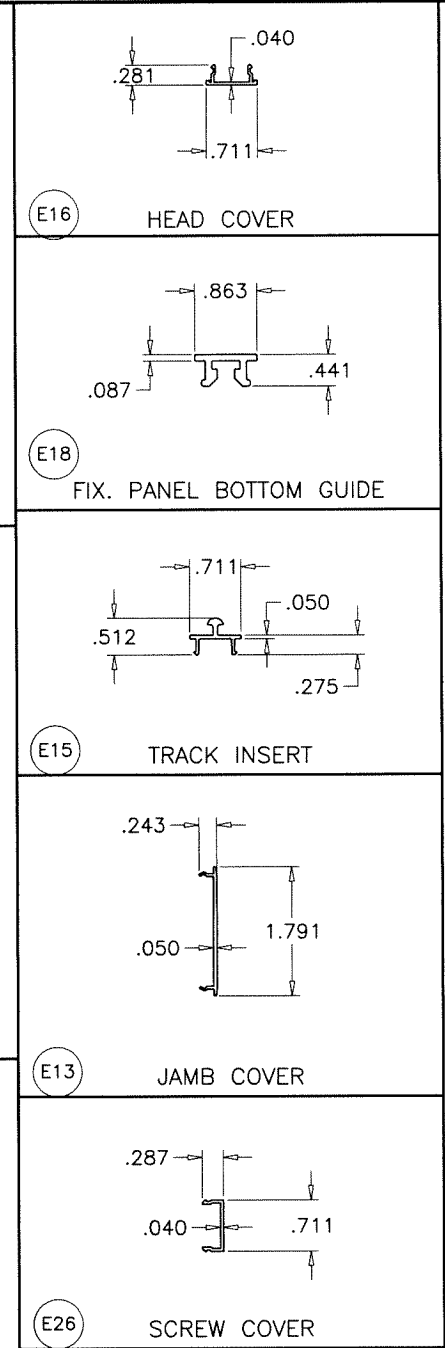
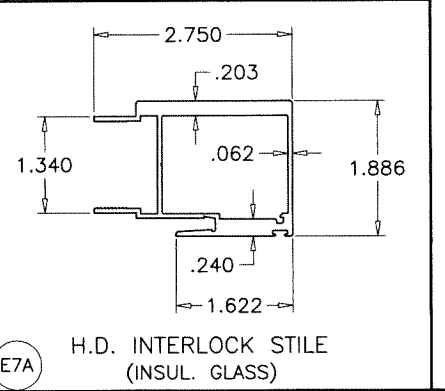
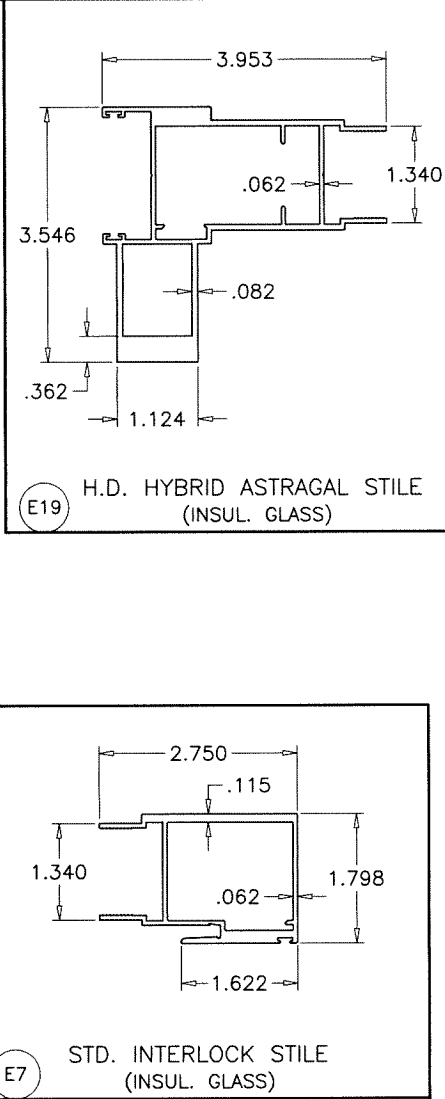
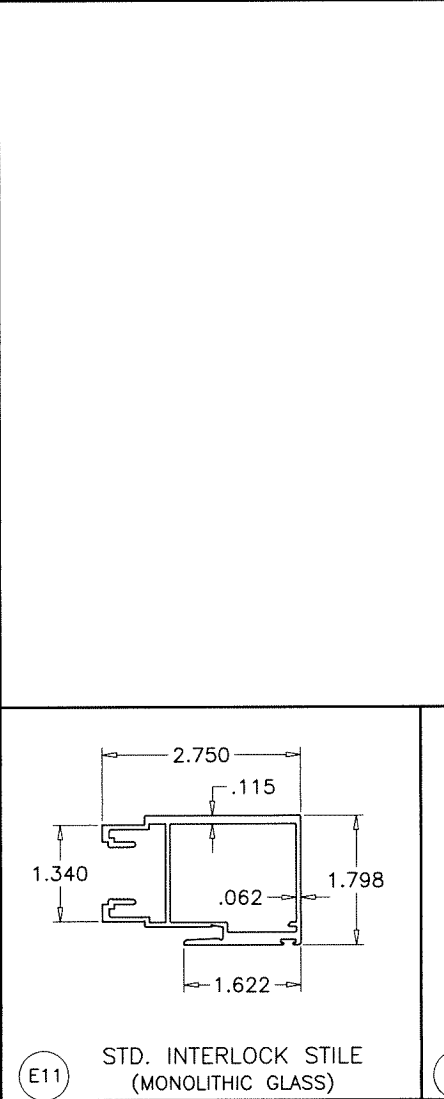
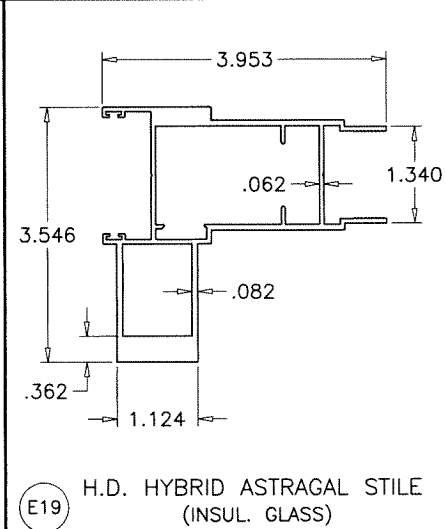
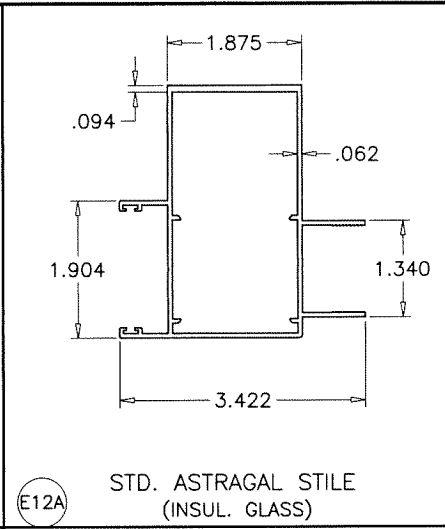
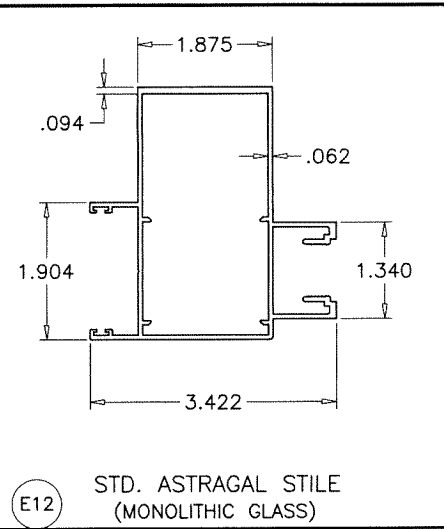
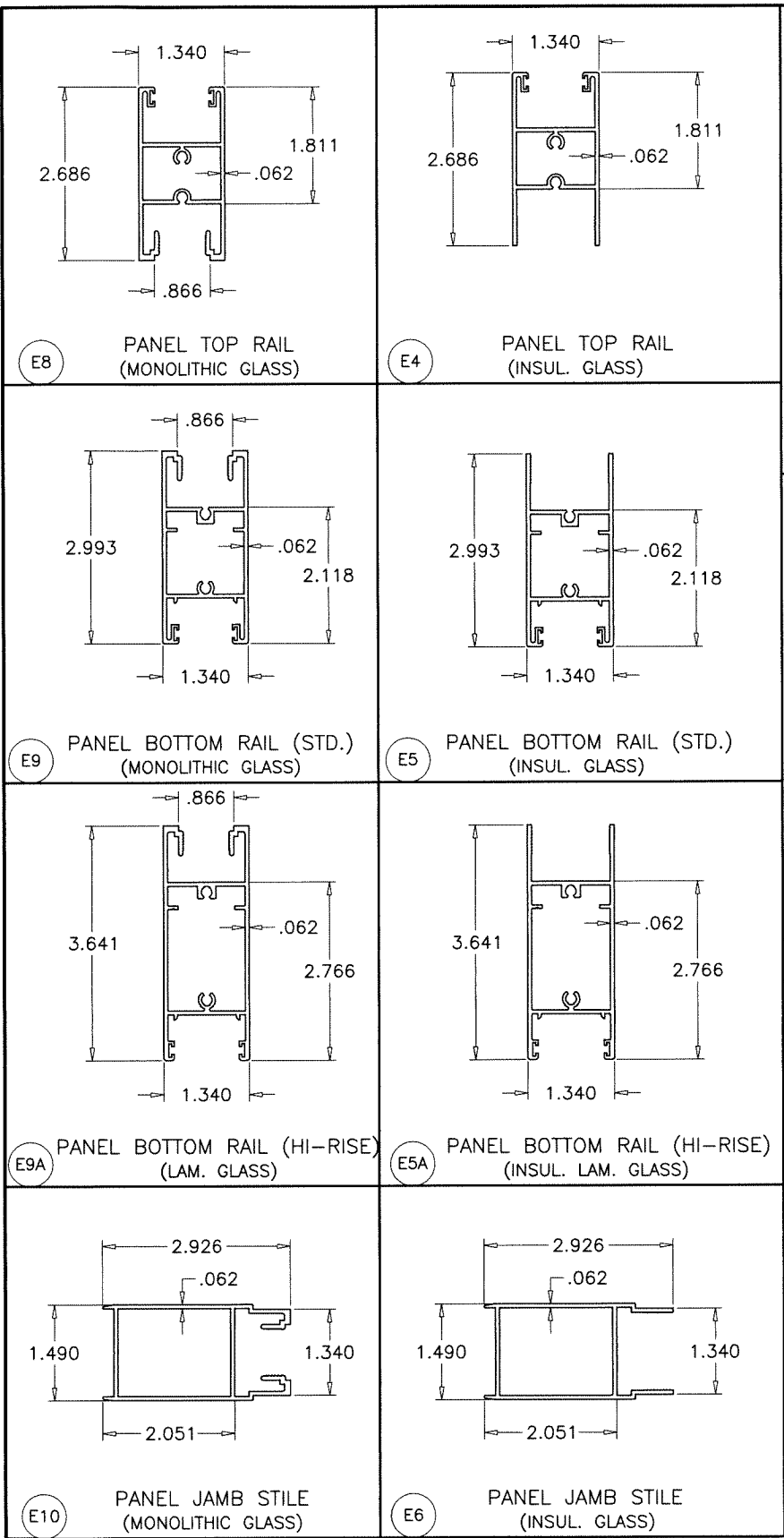
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sheet 21 of 23



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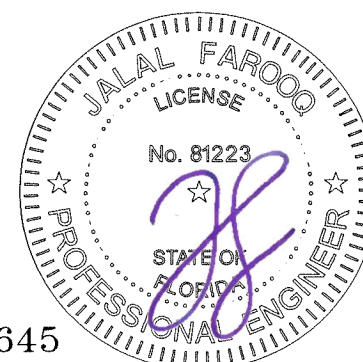
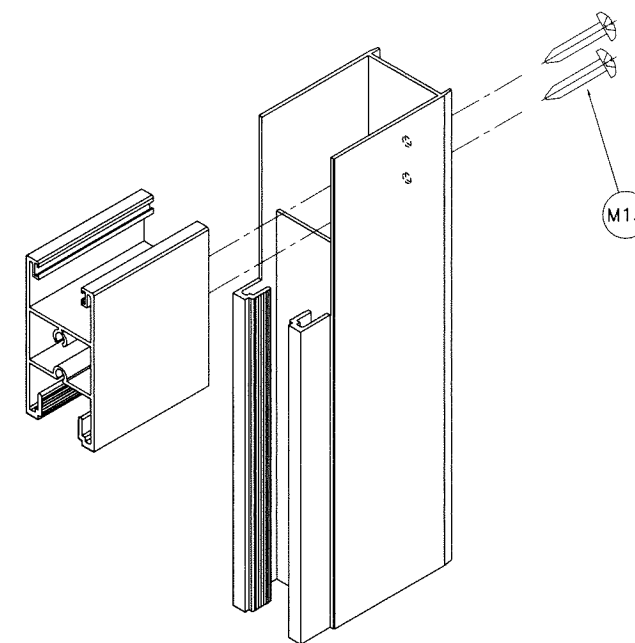
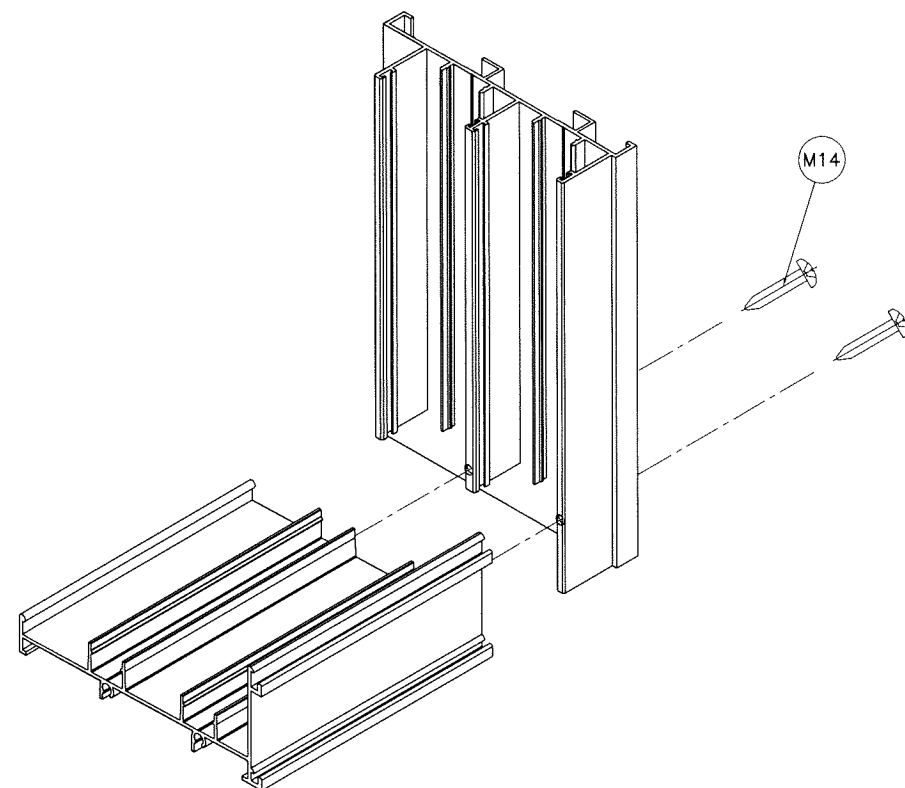
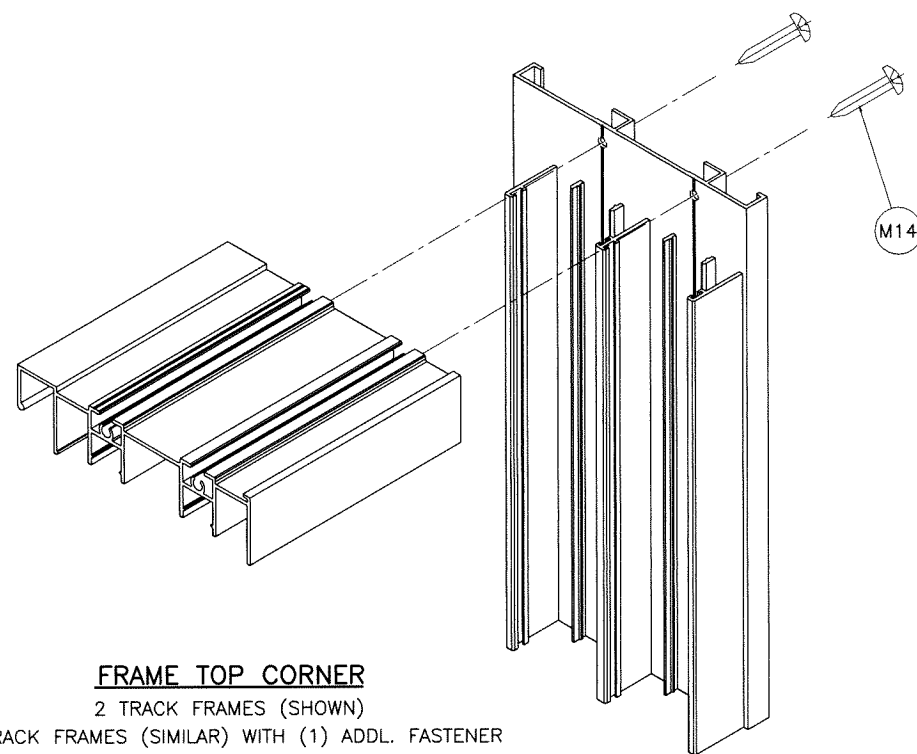
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sheet 22 of 23



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