

DAYLITE OPENINGS WIDTHS:
FIXED/LOCK STILE-INTERLOCK = PANEL WIDTH - 5.375"
INTERLOCK-ASTRAGAL = PANEL WIDTH - 5.625"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 5.00"

PANEL HEIGHT = WINDOW FRAME HEIGHT - 1.250"

SERIES-4000 ALUM SLIDING GLASS WINDOW

DESIGN LOAD RATING FOR WINDOWS TO BE AS PER CHARTS SHOWN
AND APPROVED CONFIGURATIONS ON SHEETS 2, 3 AND 4.

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.

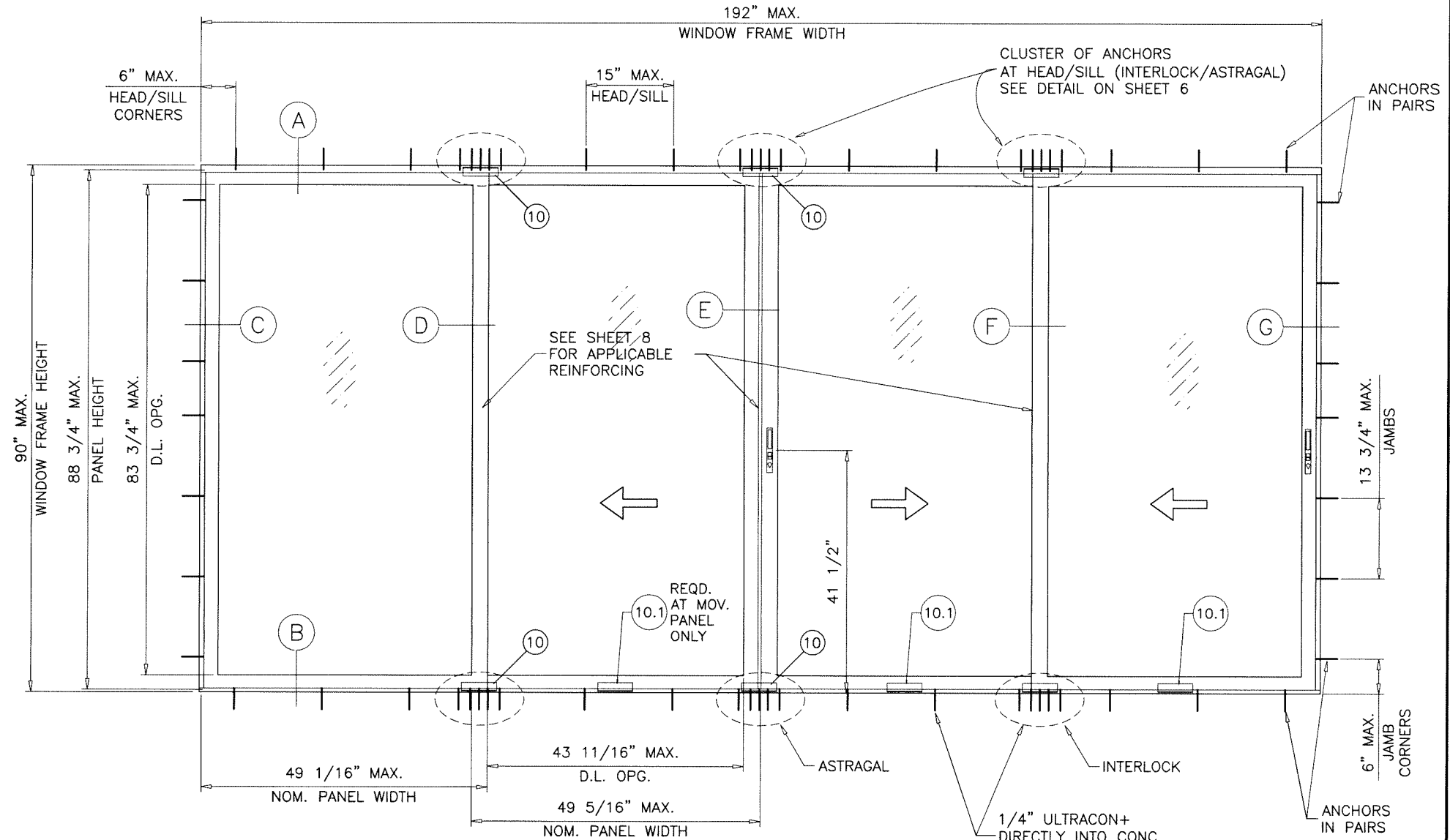
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



TYPICAL ELEVATION

DETAILS (D) AND (E)

SEE SHEET 8 FOR NO REINFORCING
LIGHT REINFORCING, MEDIUM REINFORCING
AND HEAVY REINFORCING

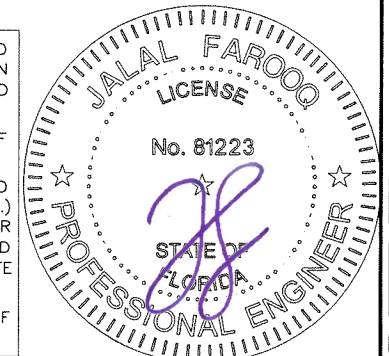
THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

Sealed: 10/22/2024

FL #47085

- 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.



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\24-74F-ES

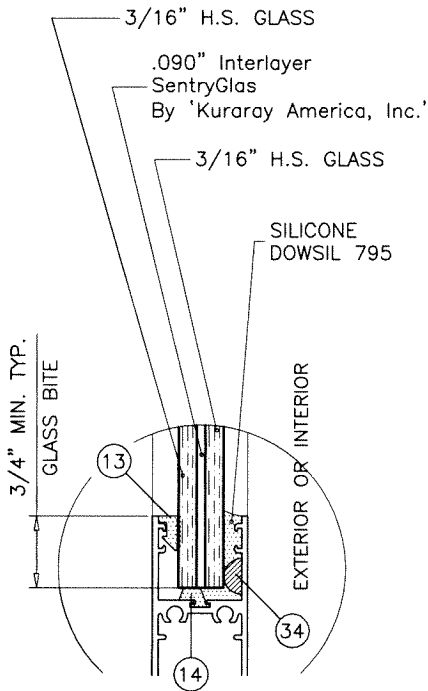
SERIES-4000 ALUM SLIDING GLASS WINDOW (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		no		date		by		description	
10-14-24									
date:		scale:		dr. by:		chk. by:			
10-14-24		1/2"=1'-0"		TARIQ					
drawing no.		24-74F							
sheet		1 of 10							

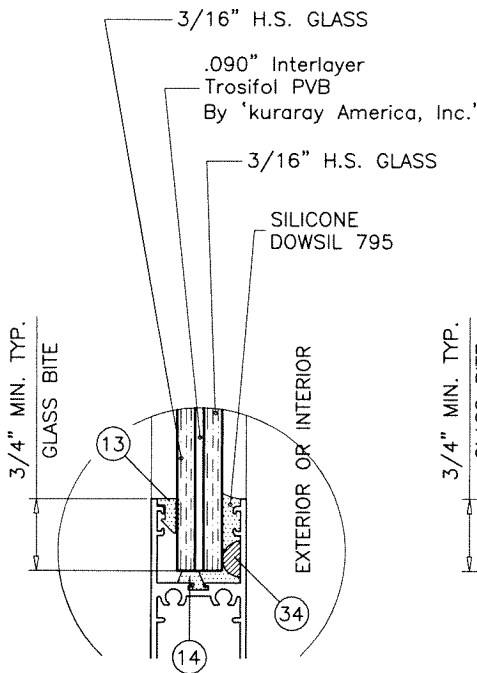
DESIGN LOAD CAPACITY - PSF (ALL CONFIGURATIONS SHOWN ON THIS SHEET) GLASS TYPES 'A', 'B' OR 'C'							
NOMINAL PANEL WIDTH INCHES	WDW. FRAME HEIGHT INCHES	NO REINFOR'G		LIGHT REINFOR'G		MEDIUM REINF'G	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	81 1/4	70.0	80.0	70.0	80.0	70.0	80.0
36		70.0	80.0	70.0	80.0	70.0	80.0
42		-	-	70.0	80.0	70.0	80.0
48		-	-	-	-	70.0	80.0
54		-	-	-	-	70.0	71.1
30	90	-	-	70.0	80.0	70.0	80.0
36		-	-	70.0	80.0	70.0	80.0
42		-	-	-	-	70.0	80.0
48		-	-	-	-	70.0	80.0

(SEE SHEET 8 FOR REINFORCING DETAILS)

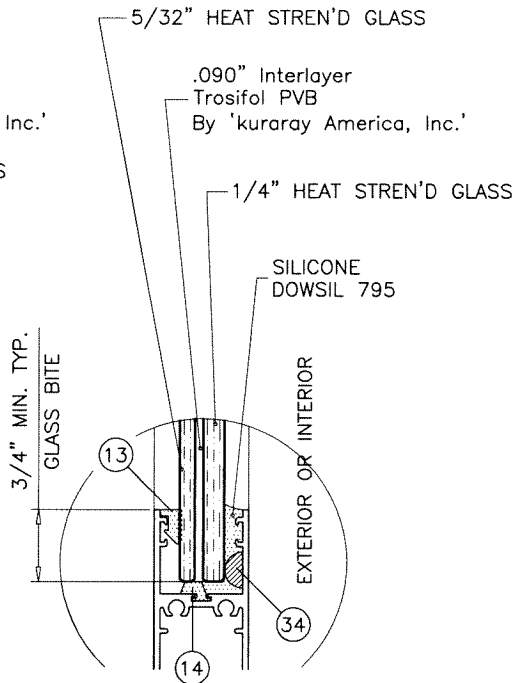
NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH
NUMBER OF PANELS



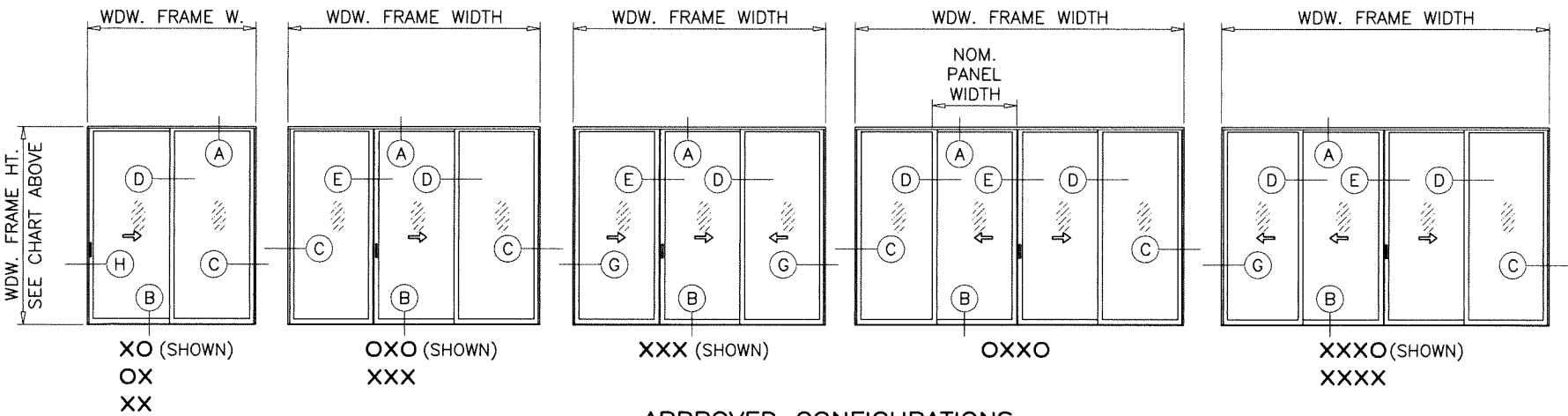
GLASS TYPE 'A'



GLASS TYPE 'B'



GLASS TYPE 'C'



APPROVED CONFIGURATIONS

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

Sealed: 10/22/2024



FL #47085

AL-FAROOQ CORPORATION
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COMP - ANL 24-74F - ES

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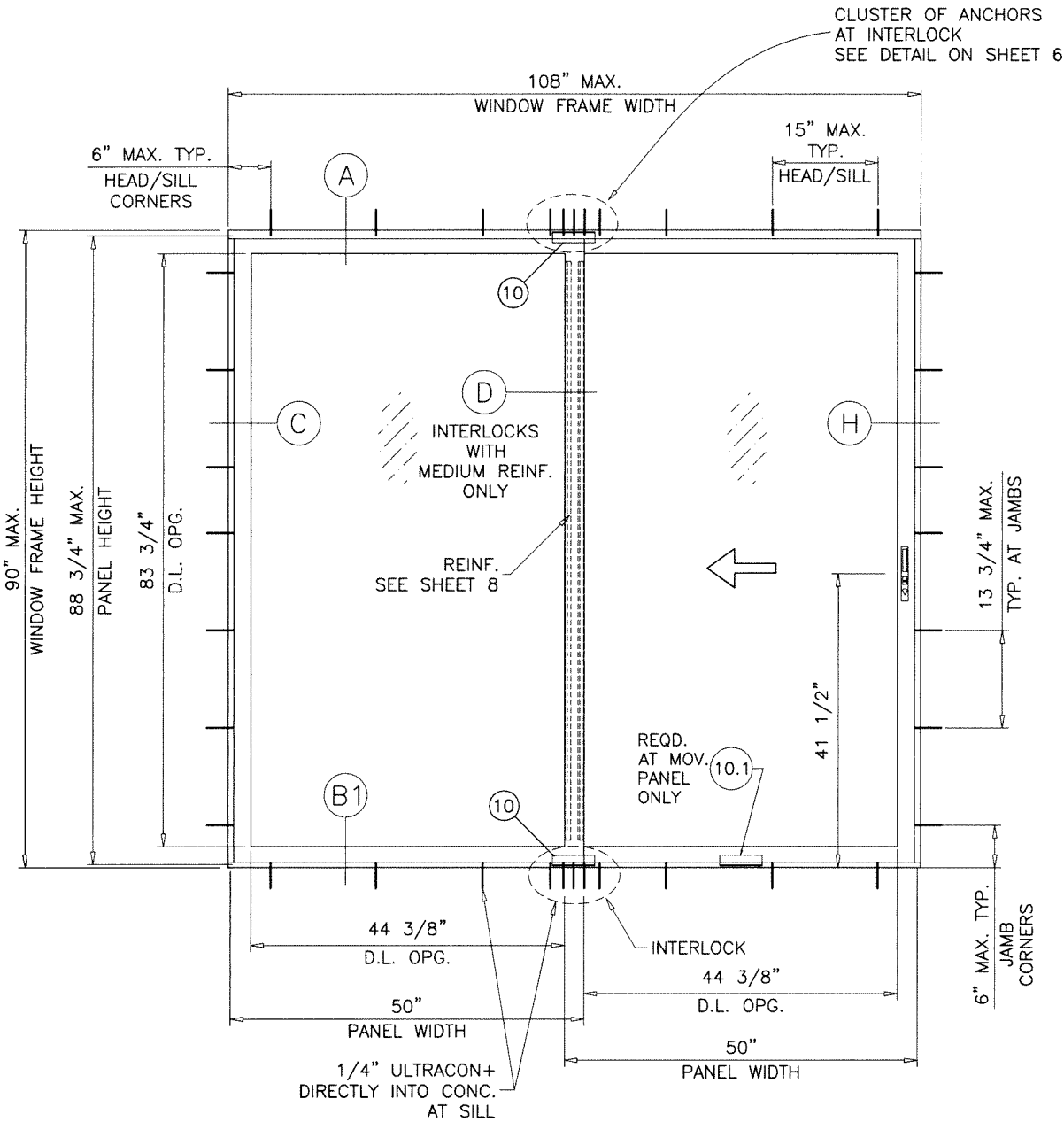
revisions:
no date by description
date: 10-14-24
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
drawing no.
24-74F
sheet 2 of 10

DESIGN LOAD CAPACITY - PSF (OX, XO OR XX ONLY) MEDIUM REINF'G (SEE DETAIL SHEET 8)					
NOMINAL PANEL WIDTH INCHES	WDW. FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	81 1/4	80.0	103.0	80.0	103.0
36		80.0	103.0	80.0	103.0
42		80.0	88.3	80.0	88.3
45		64.0	82.4	85.0	85.0
48		80.0	70.0	85.0	85.0
54	90	72.6	63.5	77.1	77.1
30		80.0	103.0	80.0	103.0
36		80.0	103.0	80.0	103.0
42		80.0	70.0	85.0	85.0
45		80.0	70.0	85.0	85.0
48		80.0	70.0	85.0	85.0
54		72.0	63.5	77.1	77.1

FOR 'XX' DOORS LIMIT EXTERIOR LOADS TO +80.0 PSF

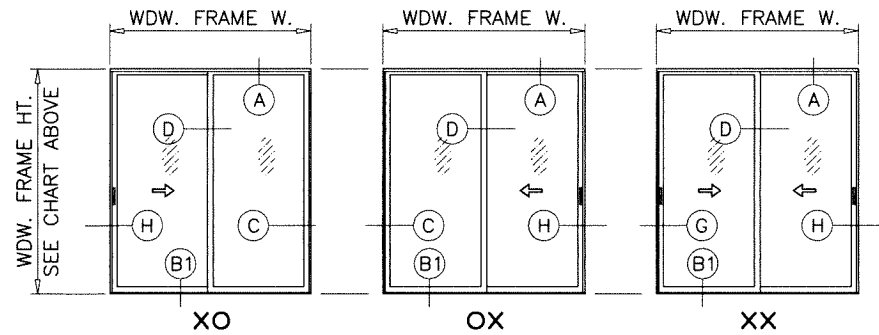
NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH / NUMBER OF PANELS

THE SHOWN EXT.(+) LOADS REQUIRE
3-1/4" SILL HEIGHT (DTL. B1 ON SHEET 5).
REDUCE EXT.(+) LOAD CAPACITY TO
+70.0 PSF IF 2-1/2" SILL HEIGHT IS USED
INT.(-) LOADS REMAIN UNCHANGED.



TYPICAL ELEVATION (OX) (SHOWN)

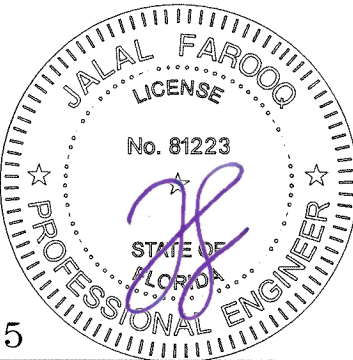
THIS SIZE TO HAVE MEDIUM REINFORCING AT INTERLOCKS
(SEE SHEET 5)



APPROVED CONFIGURATIONS

NOTE:
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AND FLORIDA BUILDING COMMISSION
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revisions:
no date by description

date: 10-14-24
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

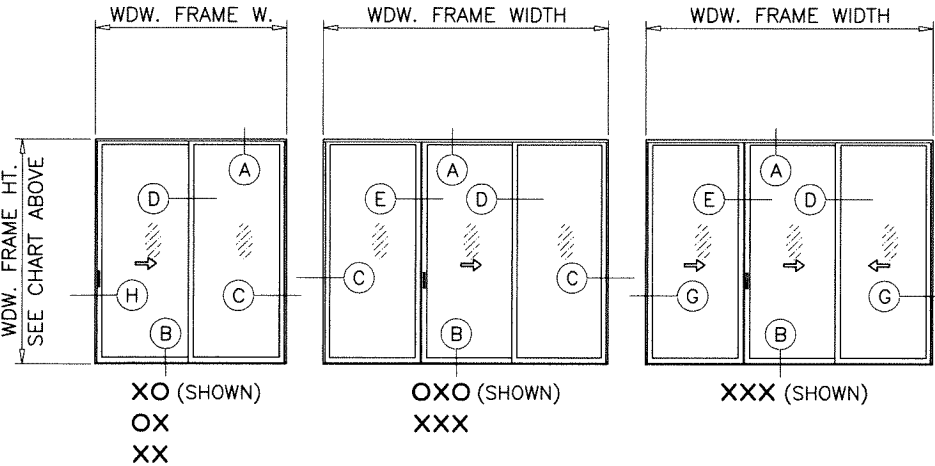
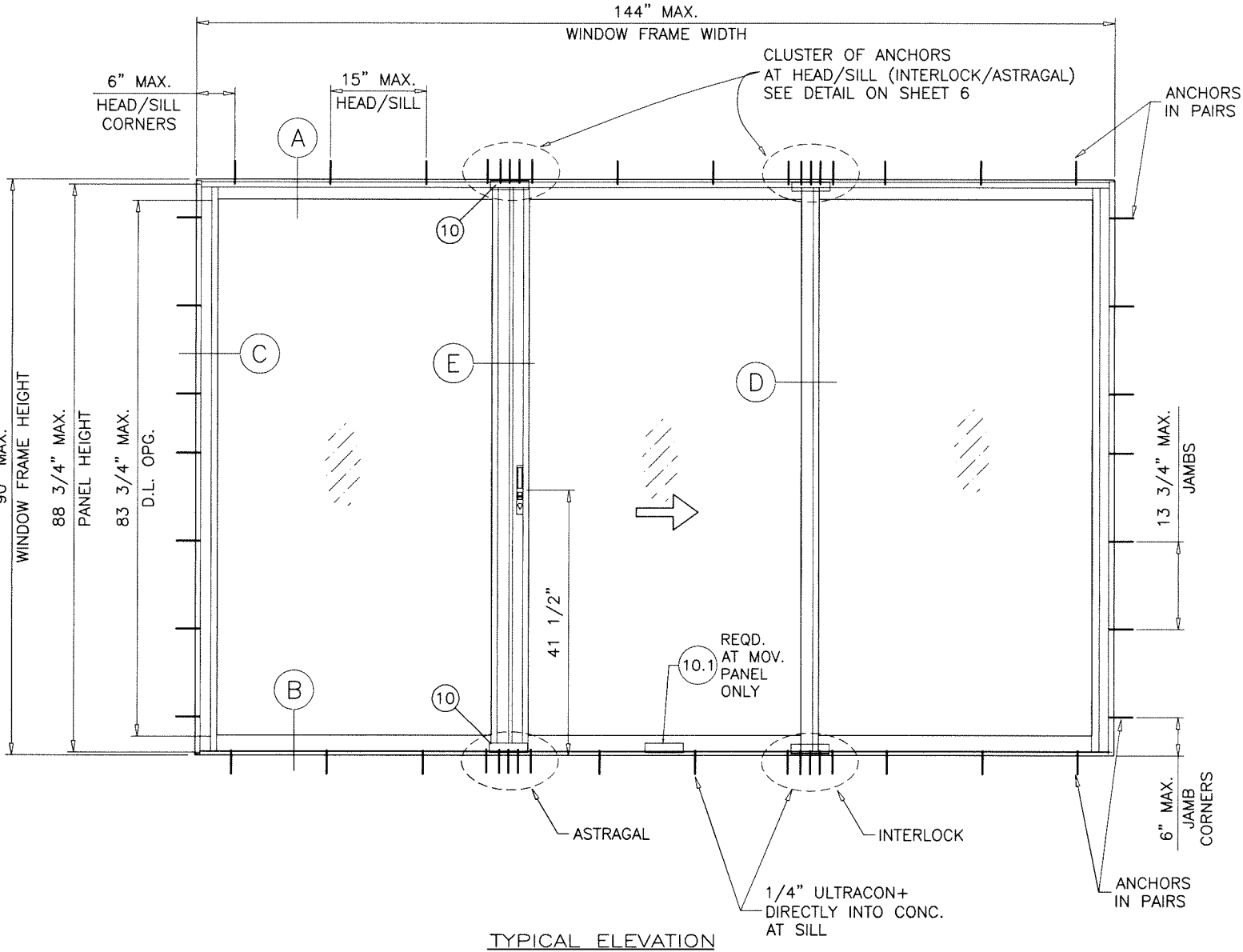
drawing no.
24-74F
sheet 3 of 10

DESIGN LOAD CAPACITY - PSF (CONFIGURATIONS SHOWN ON THIS SHEET ONLY) GLASS TYPE 'B'					
NOMINAL PANEL WIDTH INCHES	WDW. FRAME HEIGHT INCHES	MEDIUM REINFOR'G		HEAVY REINF'G	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	81-1/4	85.0	85.0	90.0	100.0
36		79.9	79.9	90.0	100.0
42		68.6	68.6	90.0	100.0
47		61.3	61.3	90.0	100.0
48		60.0	60.0	90.0	100.0
54		53.3	53.3	80.0	88.9
30	90	85.0	85.0	90.0	100.0
36		76.6	76.6	90.0	100.0
42		68.3	68.3	90.0	100.0
47		61.3	61.3	90.0	100.0
48		60.0	60.0	90.0	100.0
54		53.3	53.3	80.0	88.9

(SEE SHEET 8 FOR REINFORCING DETAILS)

NOMINAL PANEL WIDTH = WINDOW FRAME WIDTH / NUMBER OF PANELS

THE SHOWN EXT.(+) LOADS REQUIRE
3-1/4" SILL HEIGHT (DTL. B1 ON SHEET 5).
REDUCE EXT.(+) LOAD CAPACITY TO
+70.0 PSF IF 2-1/2" SILL HEIGHT IS USED
INT.(-) LOADS REMAIN UNCHANGED.



APPROVED CONFIGURATIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
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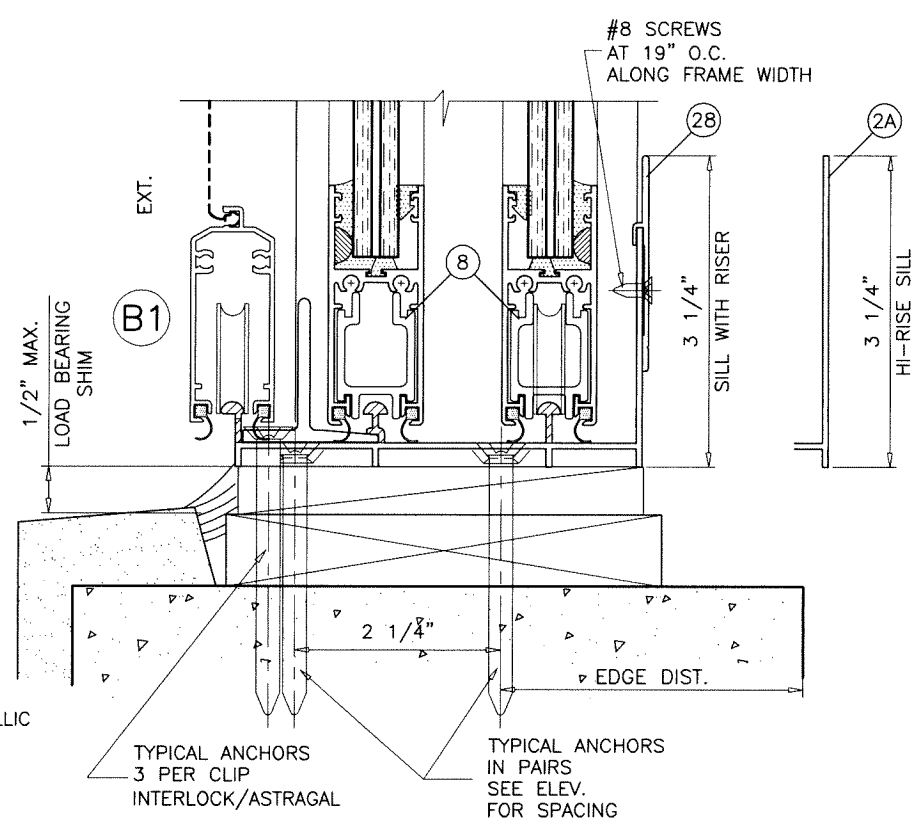
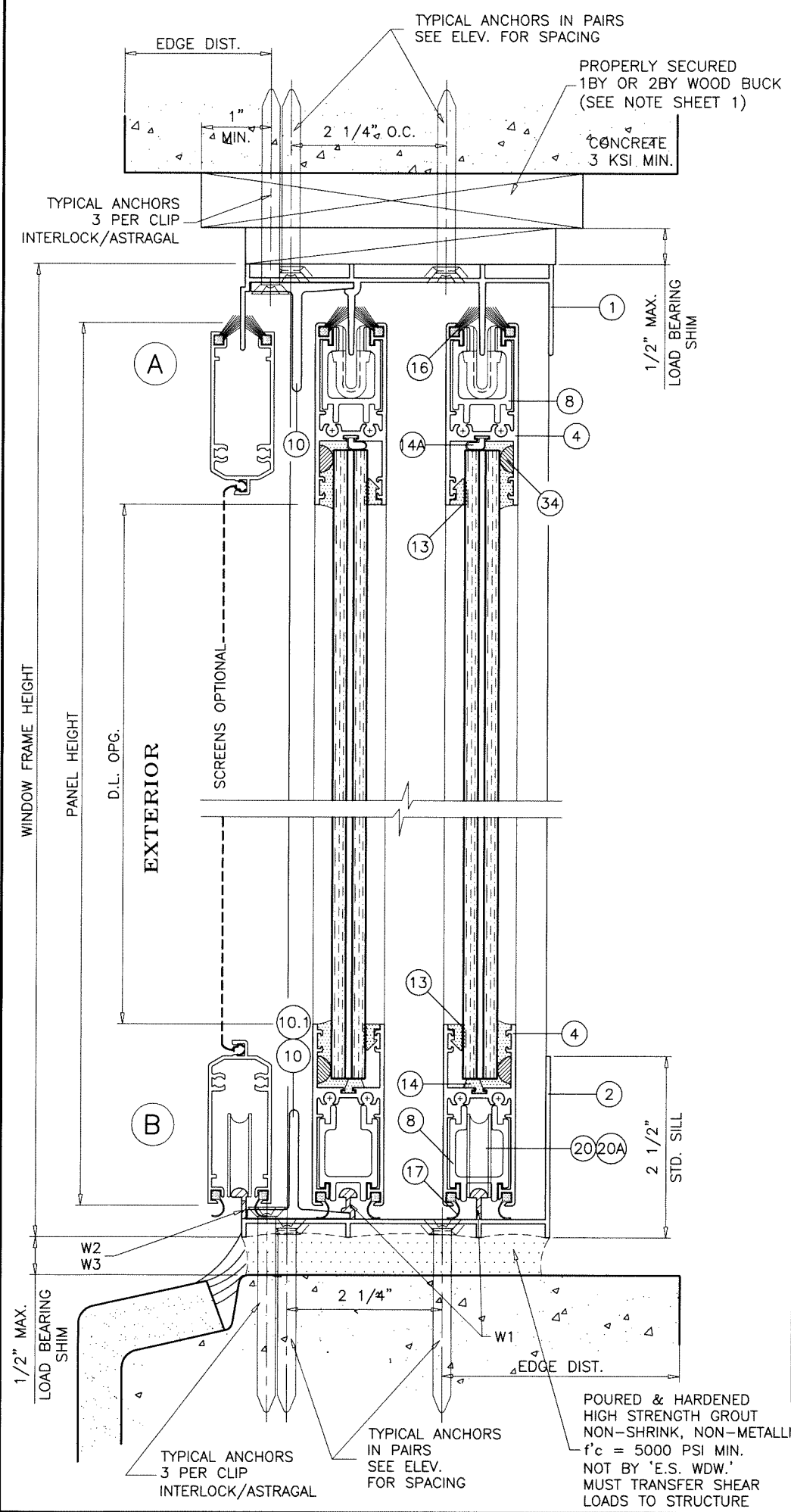
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chk. by:

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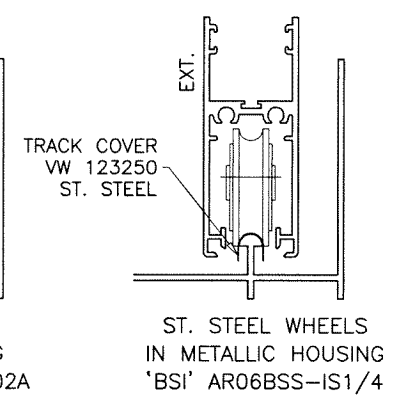
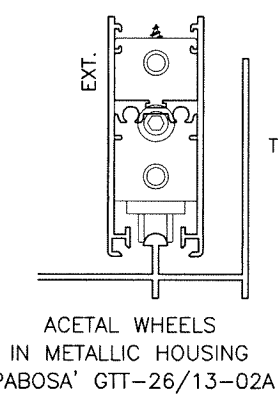
24-74F

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WEEPHOLES:

- W1 = 1-3/4" WEEP NOTCH AT EACH END
- W2 = 3/4" WEEP NOTCH AT EACH END
- W3 = 3" X 1/4" WEEP HOLES AT 2" FROM EACH END



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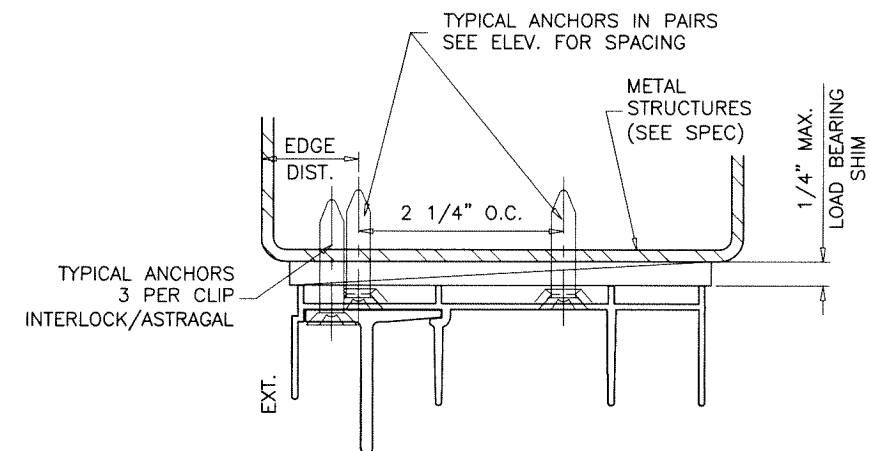
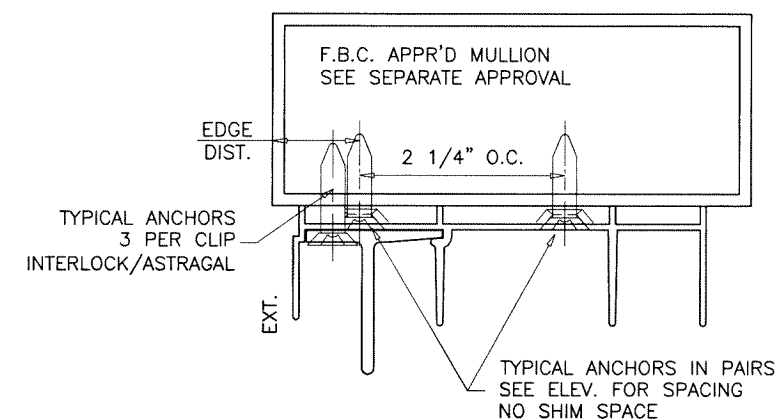
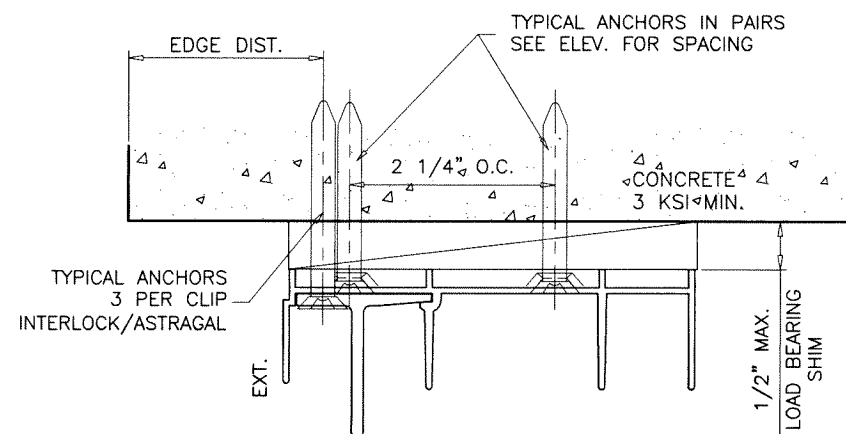
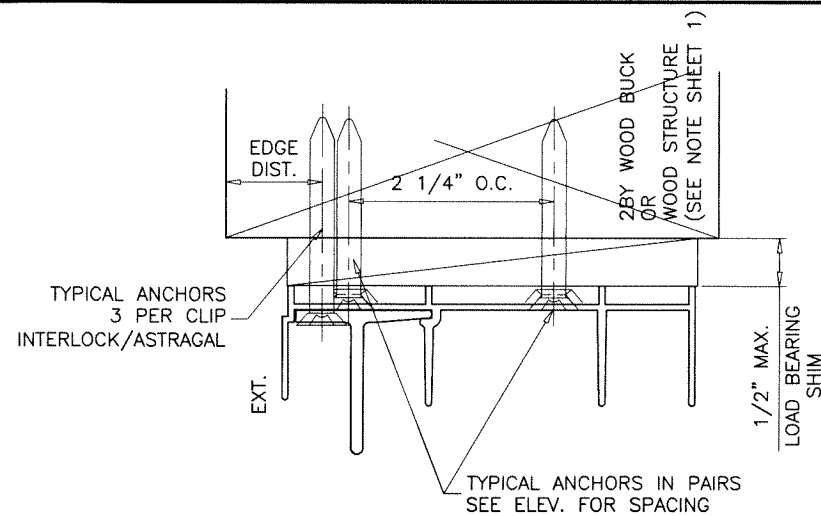
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date: 10-14-24 scale: 1/2" = 1" dr. by: TARIQ chg. by:

drawing no.
24-74F

sheet 5 of 10



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

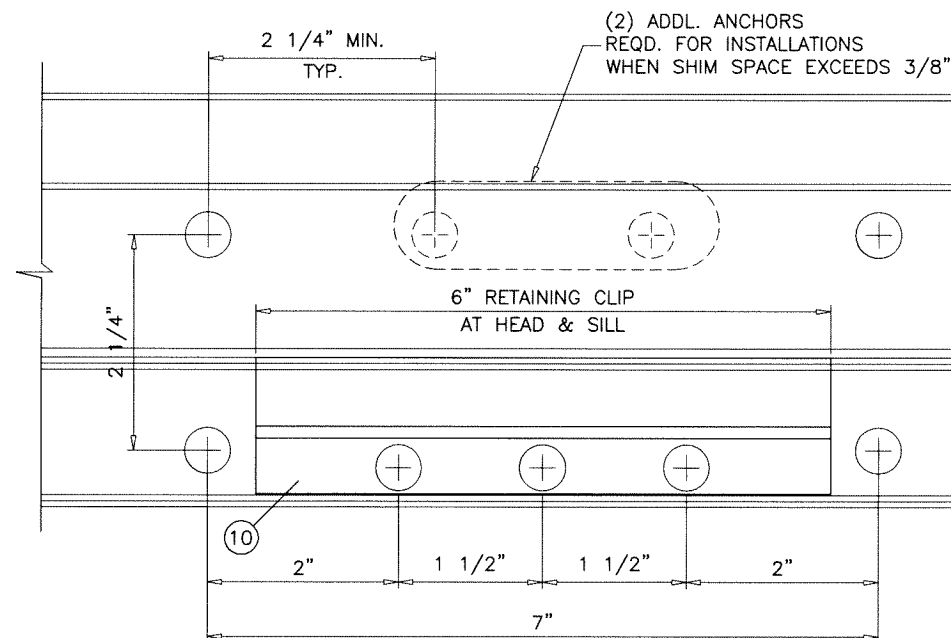
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

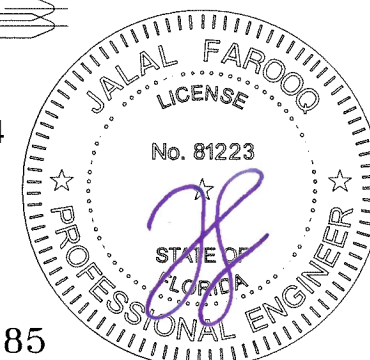
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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



DETAIL CLUSTER OF ANCHORS AT INTERLOCK/ASTRAGAL ENDS
1/4" ULTRACON DIRECTLY INTO CONCRETE AT SILL

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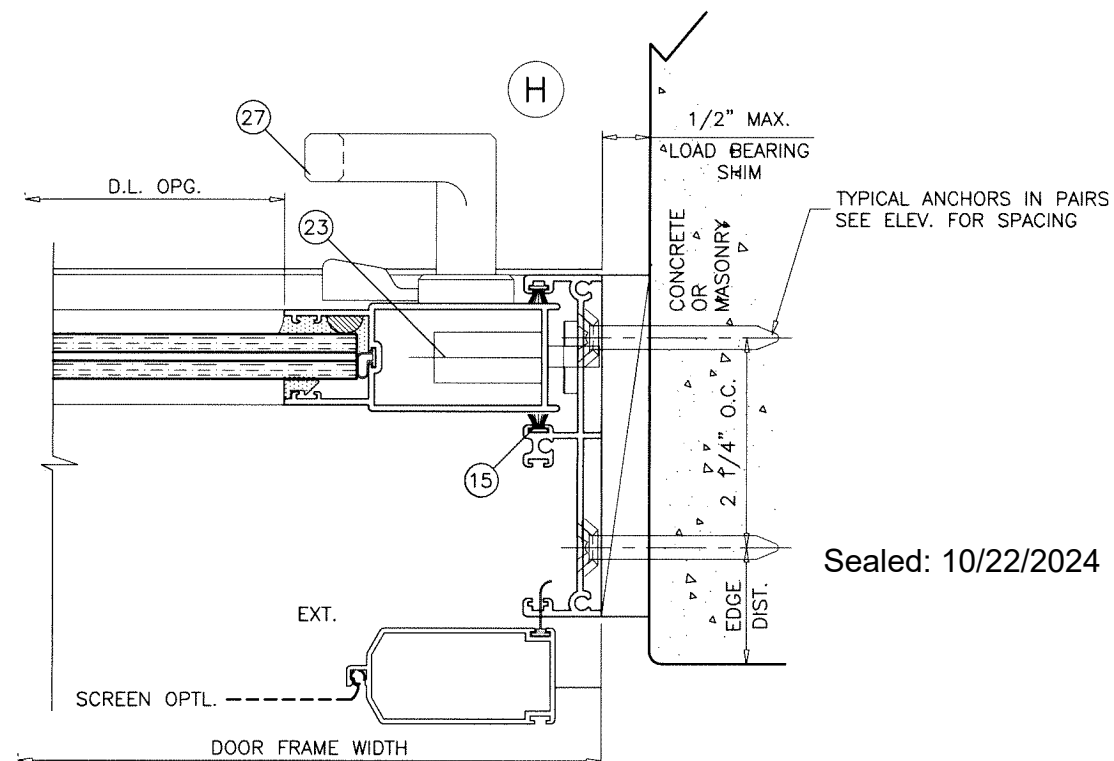
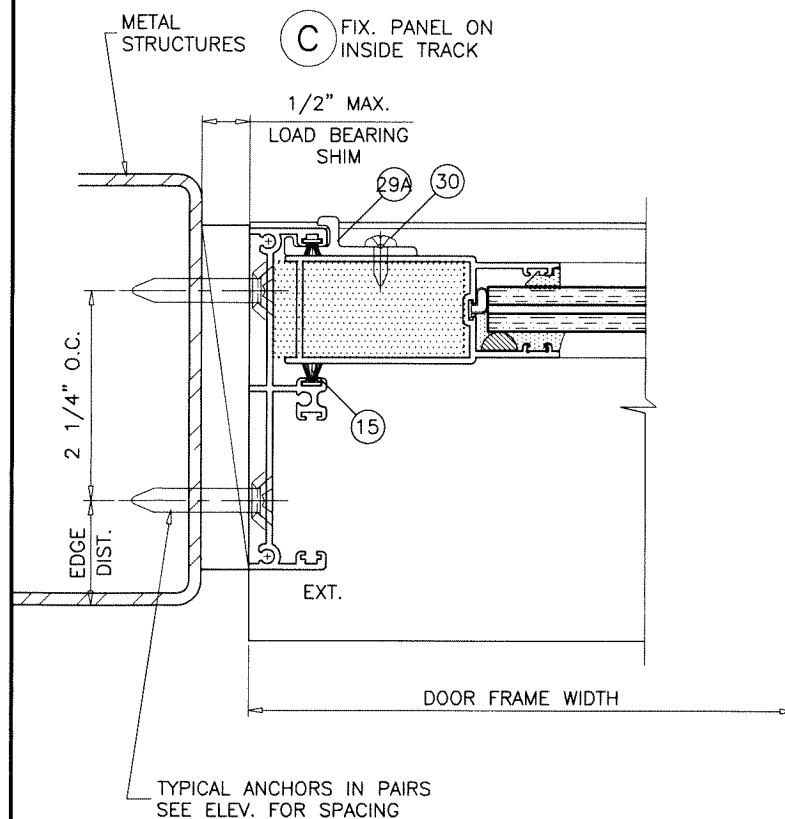
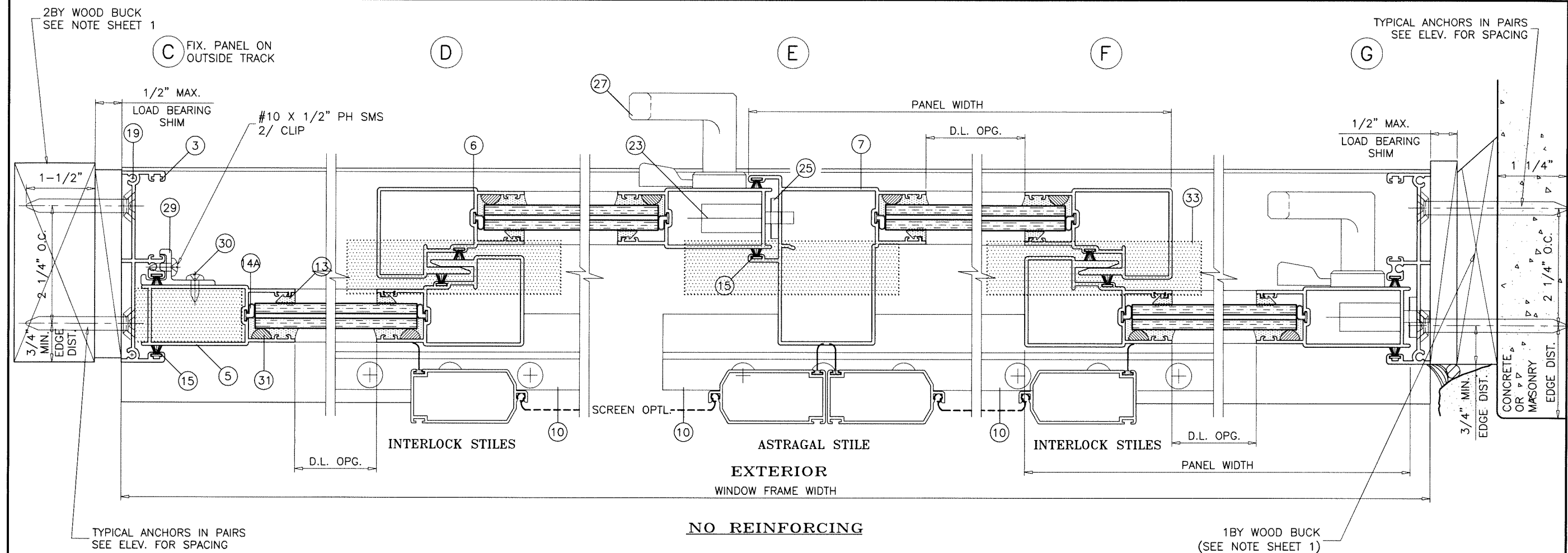
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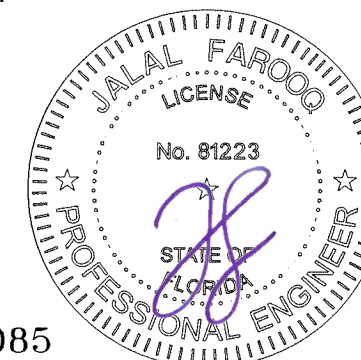
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dr. by: TARIQ
chk. by:

drawing no. **24-74F**
sheet 6 of 10



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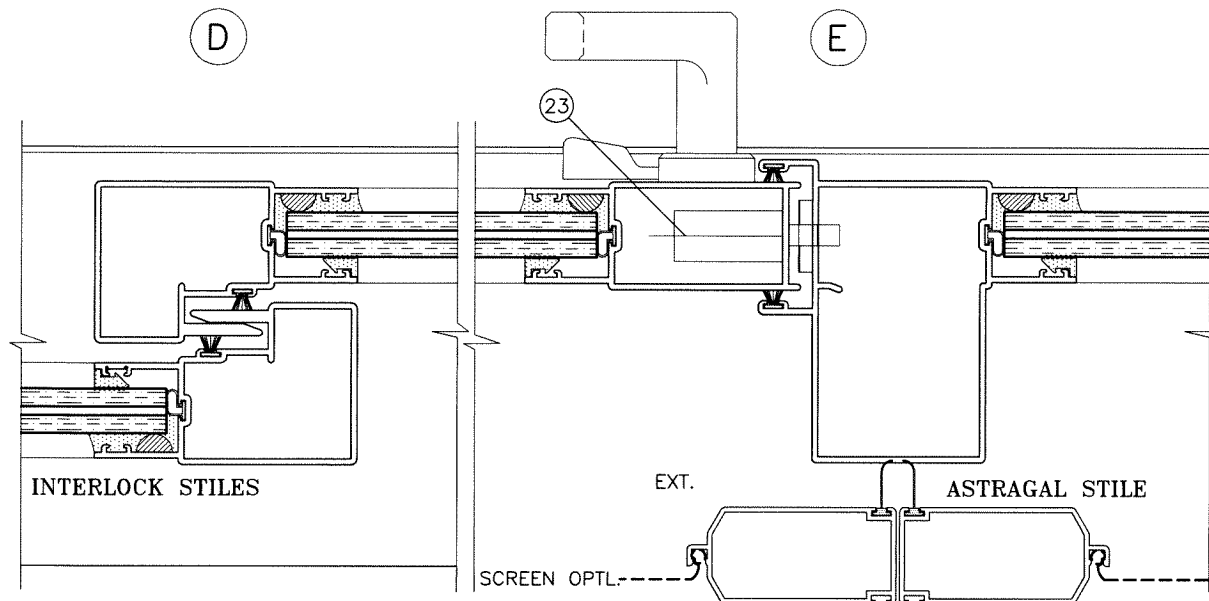
SERIES-4000 ALUM SLIDING GLASS WINDOW (L.M.I.)

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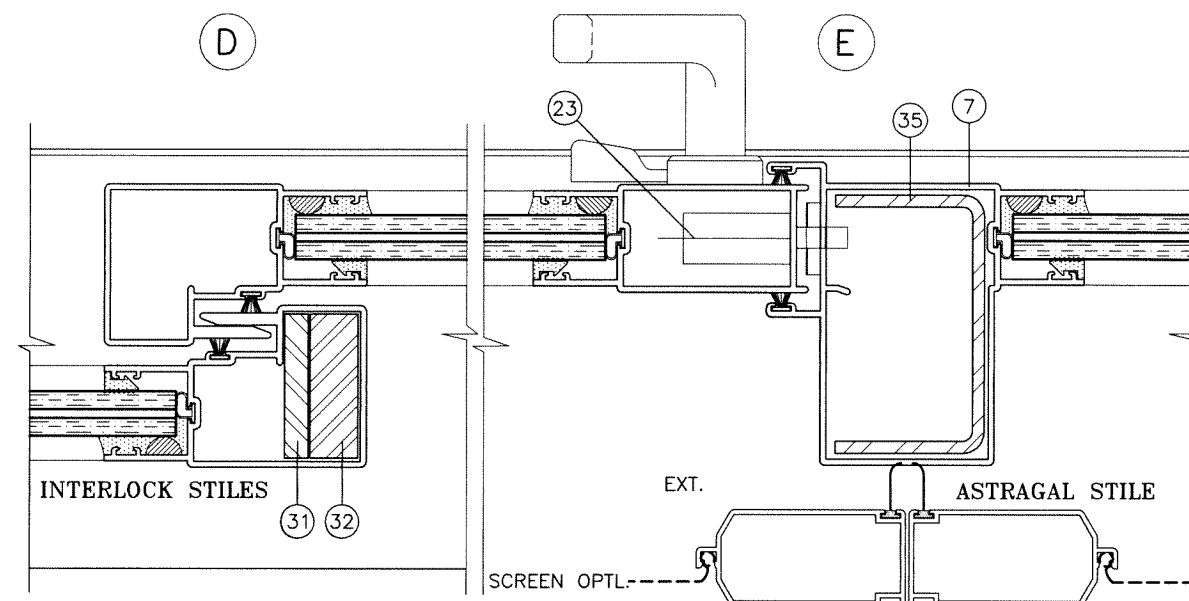
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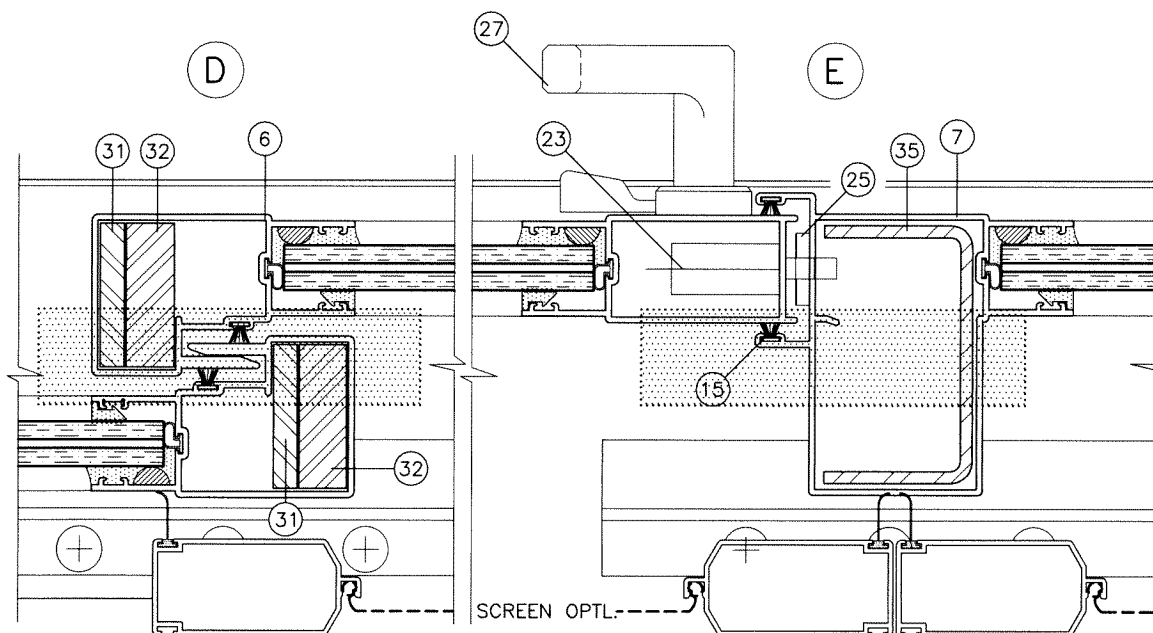
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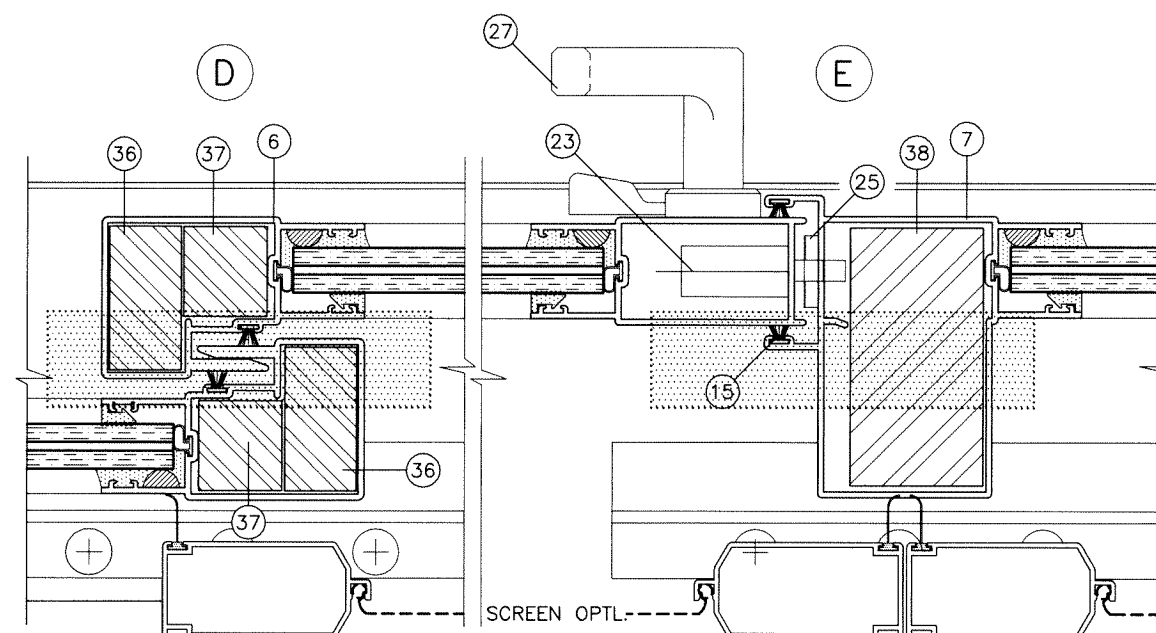
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LIGHT REINFORCING
AT EXT. INTERLOCK & ASTRAGAL STILES

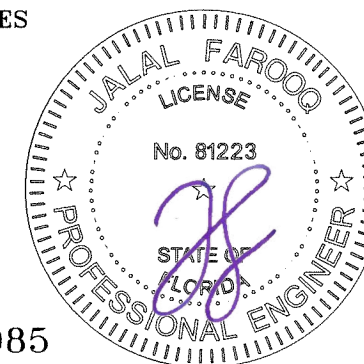


MEDIUM REINFORCING
AT EXTERIOR/INTERIOR INTERLOCK & ASTRAGAL STILES



HEAVY REINFORCING
AT EXTERIOR/INTERIOR INTERLOCK & ASTRAGAL STILES

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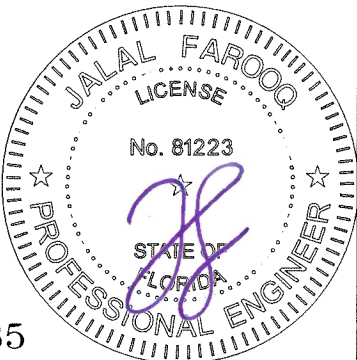
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dr. by: TARIQ		dr. by: TARIQ		dr. by: TARIQ	
chk. by:		chk. by:		chk. by:	
drawing no.		drawing no.		drawing no.	
24-74F		24-74F		24-74F	
sheet 8 of 10		sheet 8 of 10		sheet 8 of 10	

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-4001-1	1	FRAME HEAD	6063-T6	-
2	ES-4002-1	1	STD. FRAME SILL	6063-T6	-
2A	-	1	HI-RISE FRAME SILL	6063-T6	-
3	ES-4003-1	1	FRAME JAMB	6063-T6	-
4	ES-4004-1	2/ PANEL	TOP AND BOTTOM RAIL	6063-T6	-
5	ES-4005-1	AS REQD.	LOCK STILE	6063-T6	-
6	ES-4006-1	AS REQD.	INTERLOCK	6063-T6	-
7	ES-4007-1	AS REQD.	FEMALE ASTRAGAL	6063-T6	-
8	ES-4008	AS REQD.	TOP & BOTTOM RAIL STIFFENER	6063-T6	-
9	ES-4009	2/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	NOT SHOWN
10	ES-4010	2/ PANEL	RETAINER CLIP, 6" LONG	6063-T6	AT MTG. RAIL HEAD & SILL ENDS
10.1	ES-4010	1/ PANEL	MOV. PANEL RETAINER CLIP, 6" LONG	6063-T6	AT MID WIDTH OF MOVING PANELS AT SILL
13	27-445	AS REQD.	GLAZING WEDGE GASKET	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
14	27-448	AS REQD.	BOTTOM RAIL GLASS STOP	EPDM	DUROMETER 68±5 SHORE A, SOLUCIONESENCAUCHO
14A	27-449	AS REQD.	TOP RAIL & STILES GLASS STOP	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
15	W23241NK	AS REQD.	STILE & JAMB W'STRIPPING	-	GLASS PANELS, ULTRAFAB
16	Q26647DK	AS REQD.	TOP RAIL W'STRIPPING	-	GLASS PANELS, ULTRAFAB
17	ES-4015	AS REQD.	BOTTOM RAIL W'STRIPPING	VINYL	GLASS PANELS
19	#10X1-1/4" PH SMS	8/ PANEL	PANEL ASSY SCREWS	-	GLASS PANELS
19A	#10X1" FH SMS	2/ CORNER	FRAME ASSY SCREWS	-	-
20	GTT-26/13-02A	2/ MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	PABOSA
20A	AR06BSS-ISI/4	2/ MOV. PANEL	TANDEM ST. STEEL WHEELS IN METALLIC HOUSING	-	BSI
21	#10X1-1/4" PH SMS	1/ ROLLER	ROLLER INST. SCREWS	-	GLASS PANELS ONLY
23	2300-10SS	1/ MOV. PANEL	3 PLY METALLIC HOOK LOCK	ST. STEEL	-
24	-	2/ LOCK	LOCK INSTALLATION SCREW	-	#6-32 X 1/2" FH MS, ST. STEEL
25	537	1/ LOCK	LOCK STRIKE PLATE	PLATED STEEL	-
26	#10 PH SMS	2/ LOCK	STRIKE PLATE MOUNT. SCREW	-	NOT SHOWN
27	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
28	ES4028	AS REQD.	SILL RISER	6063-T5	-
29	ES-4017	2/ PANEL	FIXED PANEL CLIP (OUTSIDE PANEL)	6063-T5	-
29A	ES-4020	2/ PANEL	FIXED PANEL CLIP (INSIDE PANEL)	6063-T5	FOR OXO DOORS
30	#10X1/2" PH SMS	2/ CLIP	FIXED PANEL CLIP FASTENER	-	-
31	-	AS REQD.	1/4" X 1-1/2" REINFORCING BAR	36 KSI STEEL	LENGTH = PANEL HT. - 6.5"
32	-	AS REQD.	1/2" X 1-1/2" REINFORCING BAR	36 KSI STEEL	LENGTH = PANEL HT. - 6.5"
33	P38024FK	AS REQD.	3" LONG SELF ADHESIVE PILE PAD	WOOL	AT HEAD AND SILL
34	-	2/ SIDE	BUMPON	NEOPRENE	-
35	-	AS REQD.	ASTRAGAL REINFORCING	36 KSI STEEL	LENGTH = PANEL HT. - 14"
36	-	AS REQD.	3/4" X 1-1/2" REINFORCING BAR	36 KSI STEEL	LENGTH = PANEL HT. - 6.5"
37	-	AS REQD.	7/8" X 15/16" REINFORCING BAR	36 KSI STEEL	LENGTH = PANEL HT. - 6.5"
38	-	AS REQD.	2-11/16" X 1-3/8" REINFORCING BAR	36 KSI STEEL	LENGTH = PANEL HT. - 6.5"

SEALANT:

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

Sealed: 10/22/2024



FL #47085

afcc

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revisions:

no	date	by	description

date: 10-14-24

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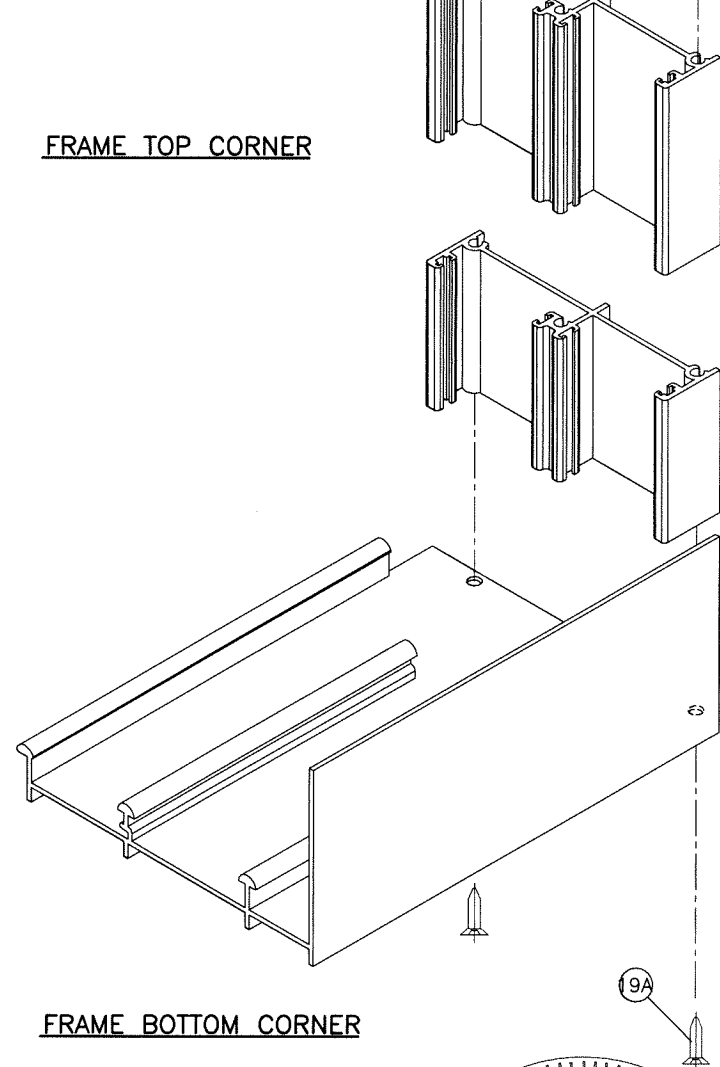
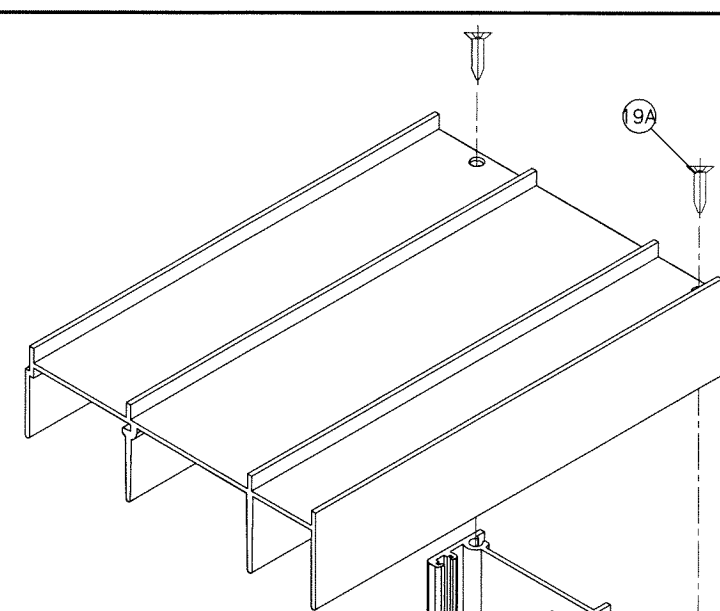
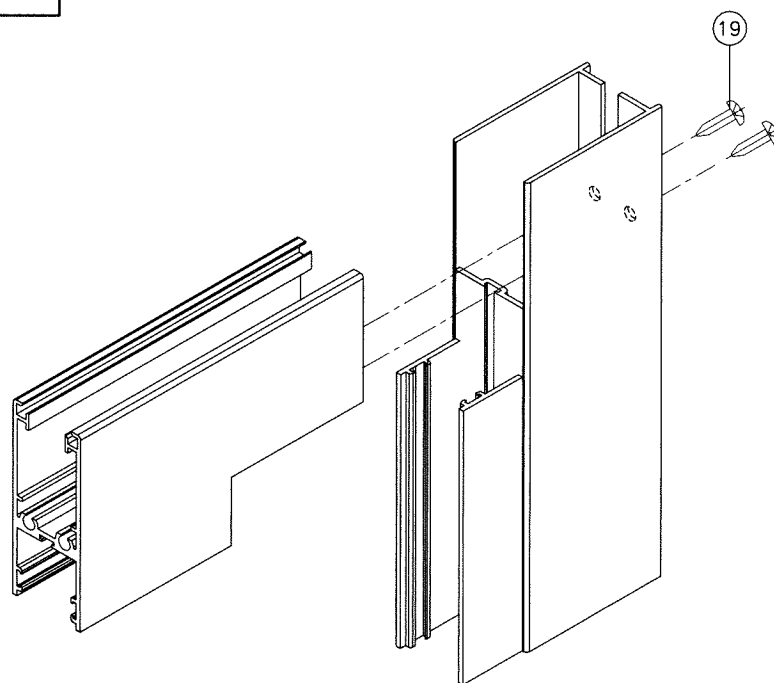
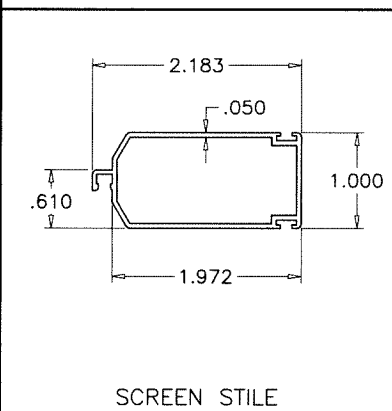
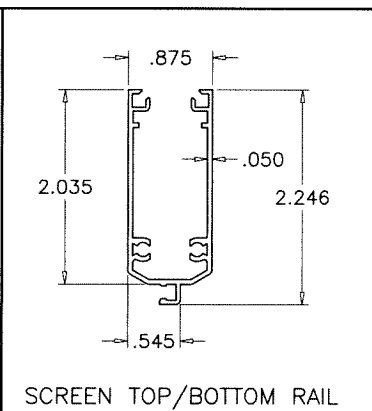
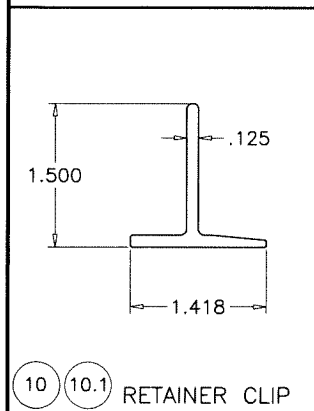
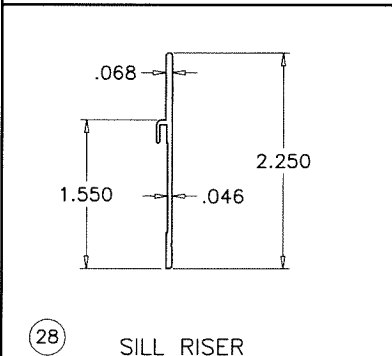
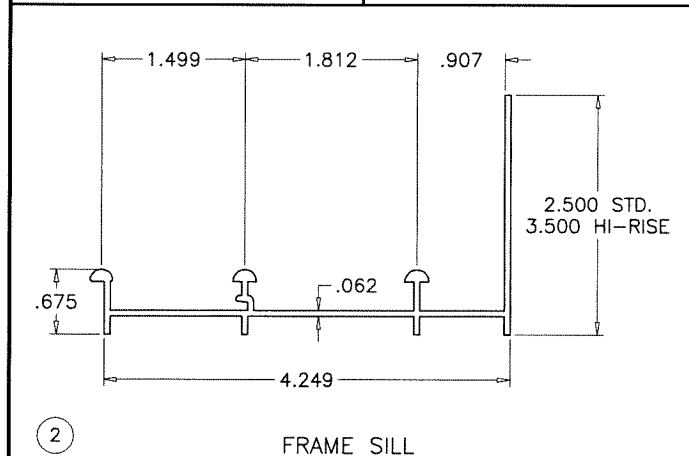
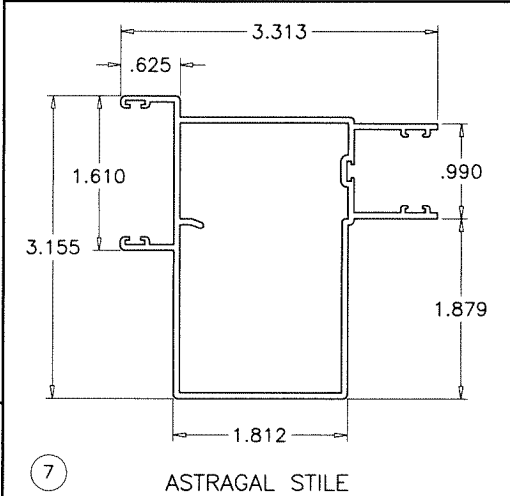
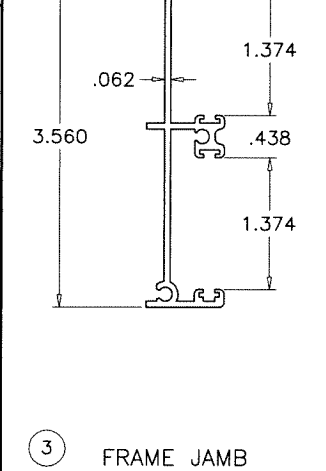
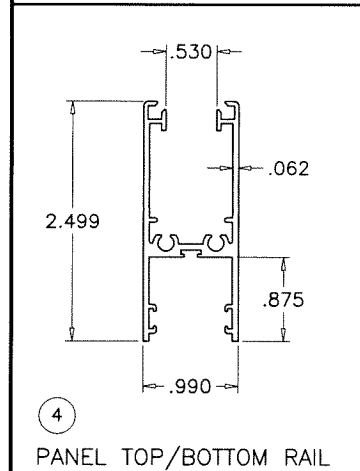
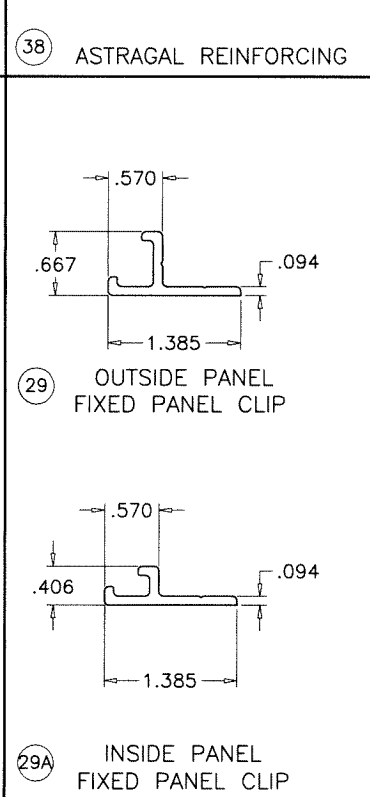
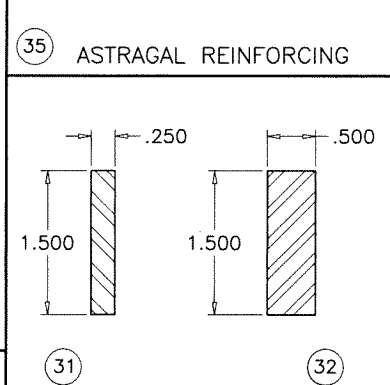
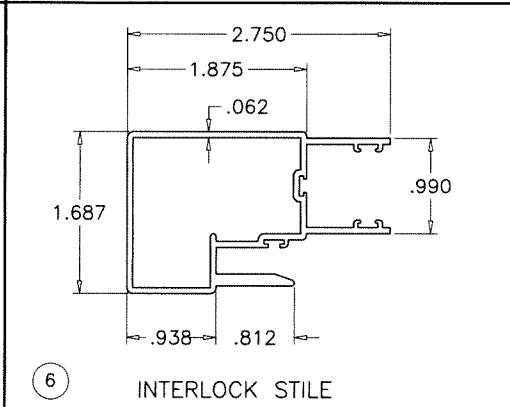
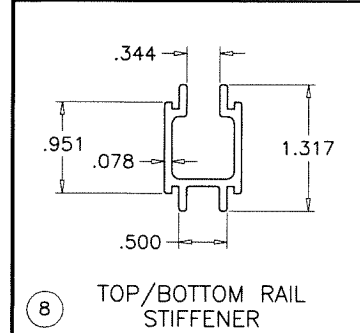
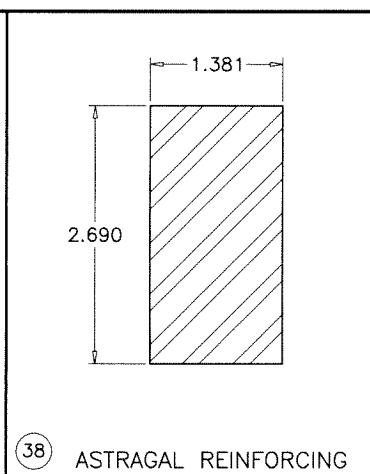
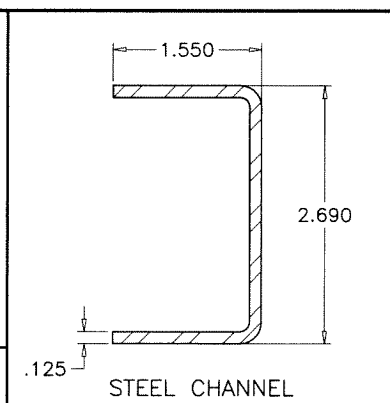
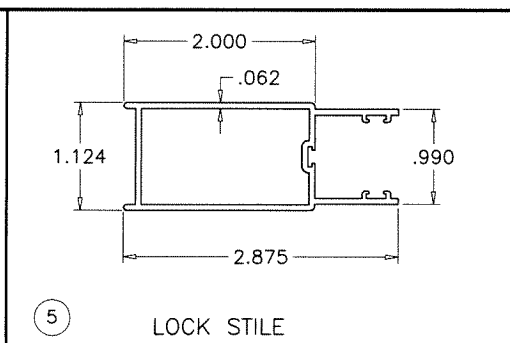
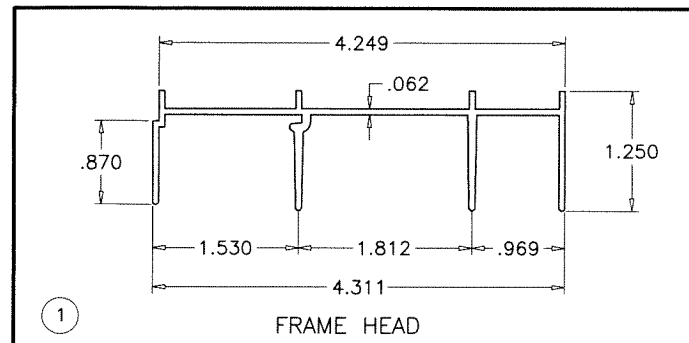
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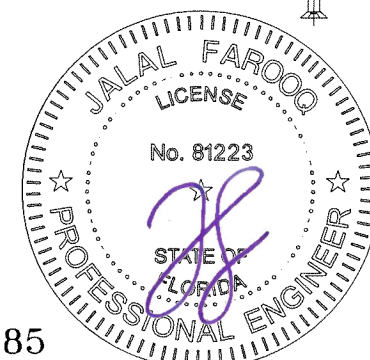
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sheet 9 of 10



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a f c
COMP-ANL\24-74F-ES

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