

GLOBAL PERFORMANCE WINDOW INC.
DBA. EPSYLON USA
ALUMINUM PROJECTED-OUT WINDOW SERIES EUSA 400PO
SMALL MISSILE IMPACT (SMI)

GENERAL NOTES:

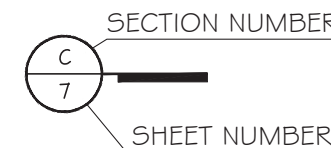
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED WHEN USE ABOVE 30 FT GRADE
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY GLOBAL PERFORMANCE WINDOWS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- 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.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE SHEET E1 & E2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP3: SEE PAGE 4 FOR ANCHOR OPTIONS, SEE SHEET E1 & E2 FOR ANCHOR SPACING.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 TO 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER
G.B. - GLASS BITE

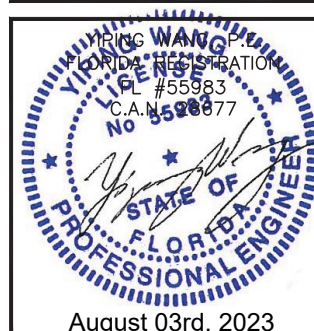


LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P. E. D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P. E. D.
- B- 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.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- 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 DELEGATED ENGINEER TO THE P. E. D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E- THIS P. E. D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL#17539.2



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GLOBAL PERFORMANCE WINDOW INC.

DBA. EPSYLON USA

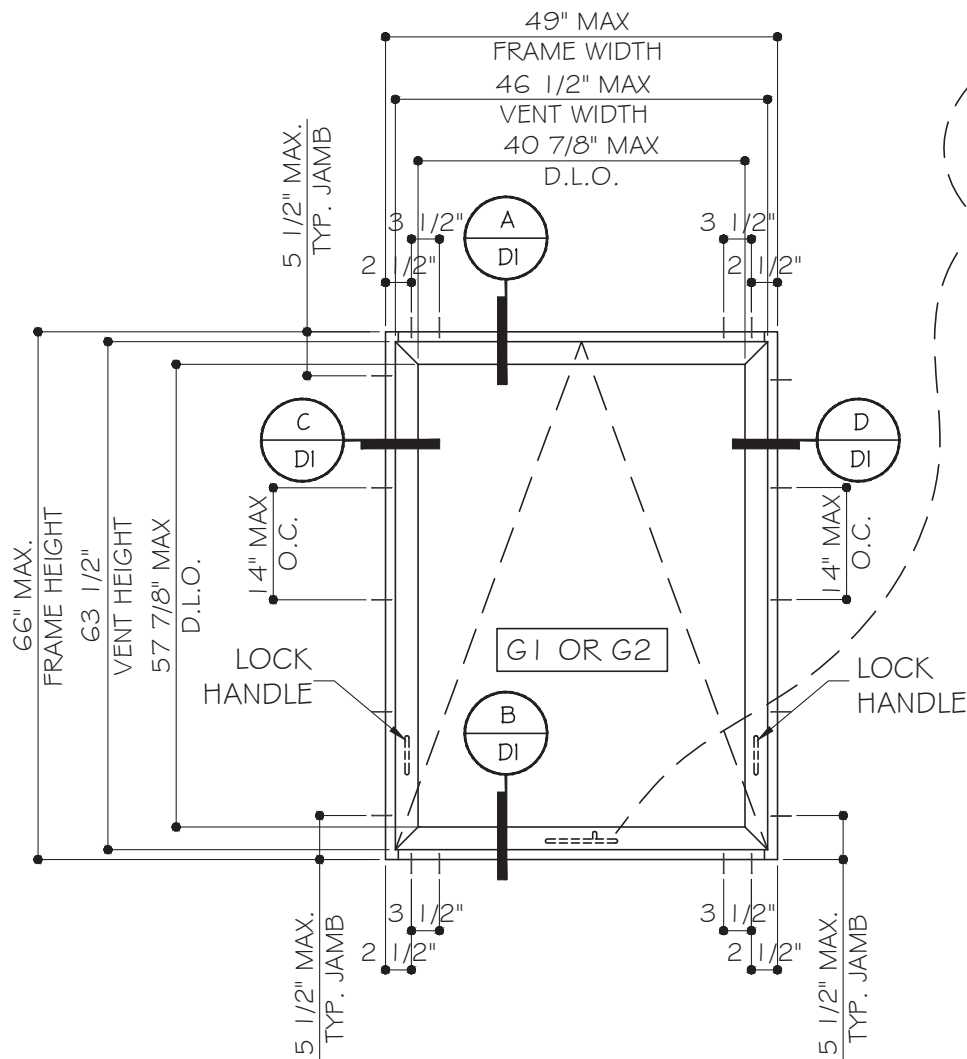
TEL. (954)-942-3322

MCY ENGINEERING, INC.

**ENGINEERING,
GLAZING CONSULTANTS**

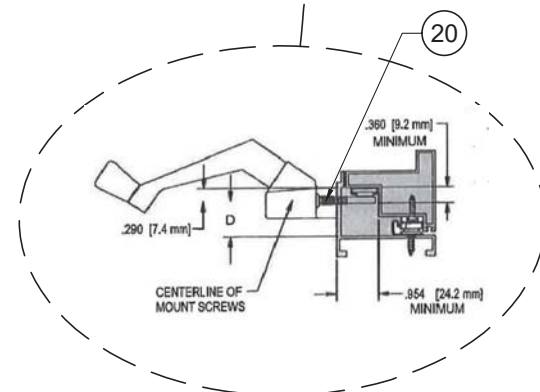
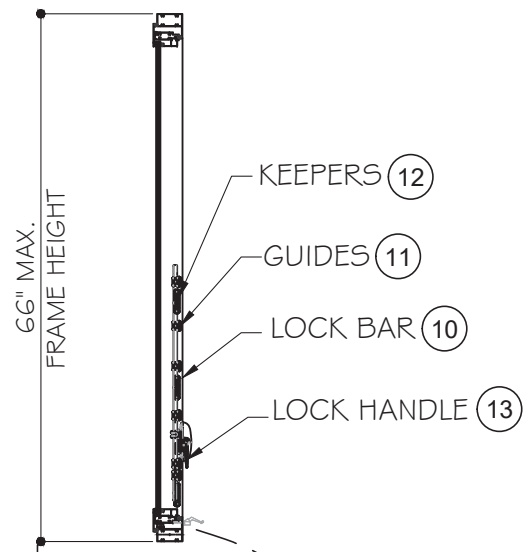
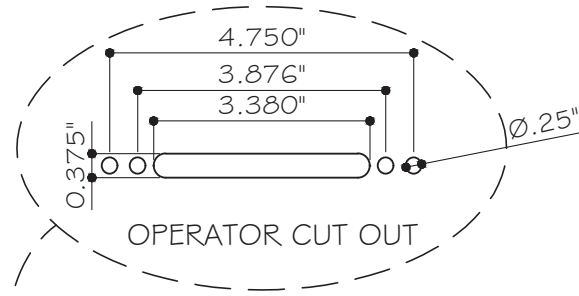
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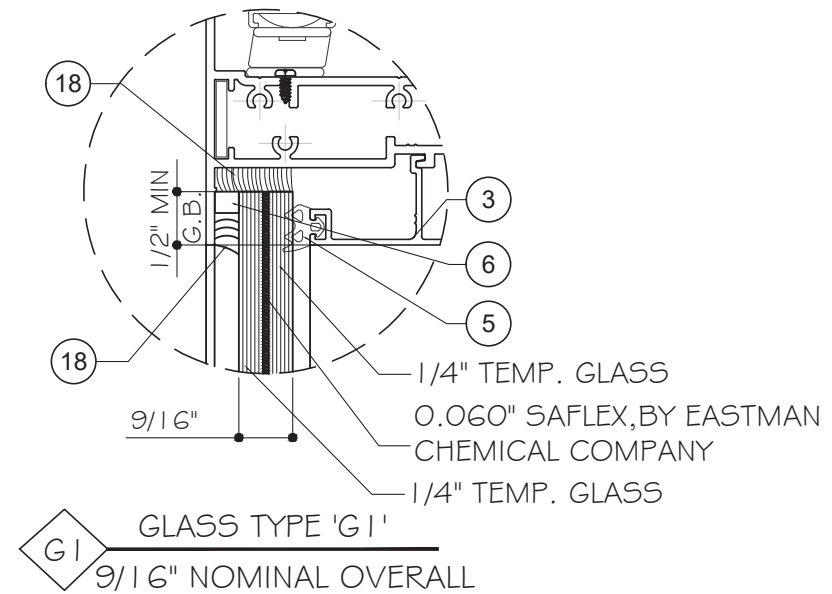


TYPICAL EXTERIOR ELEVATIONS(X)

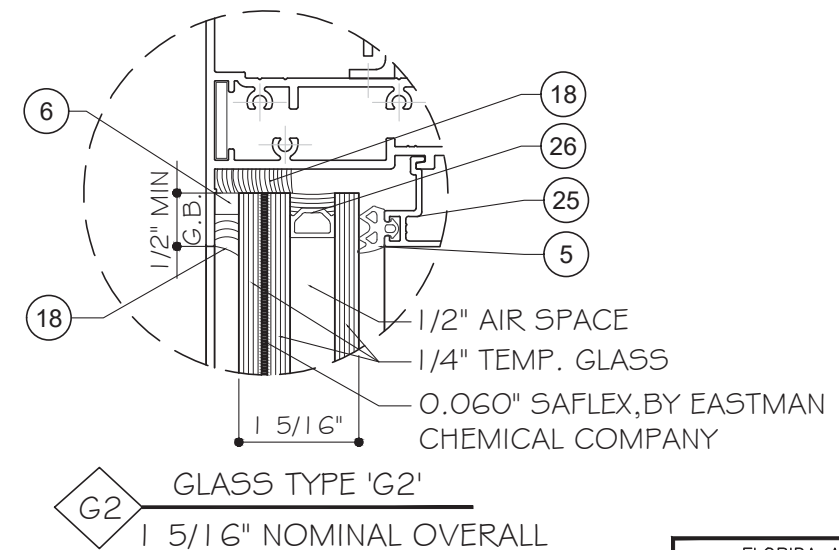
DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+ 1 00 PSF
- 1 00 PSF



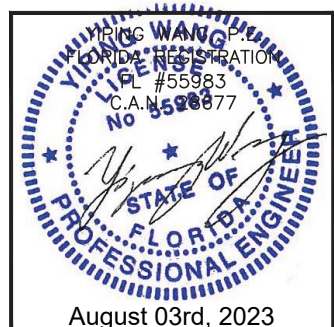
(08) TRUTH OPERATOR SIDE VIEW



NOTE:
GLASS COMPLIES WITH ASTM E1 300-09 (3 SEC. GUSTS).



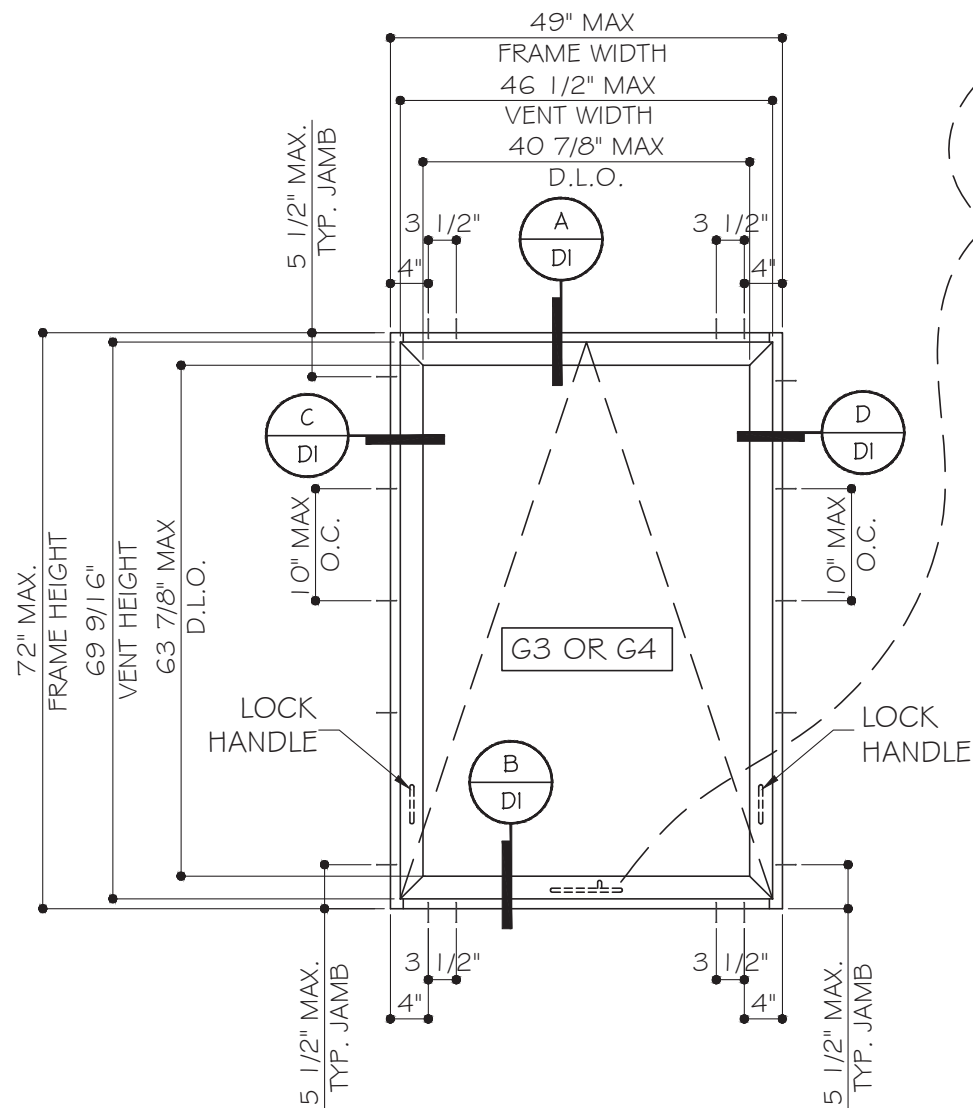
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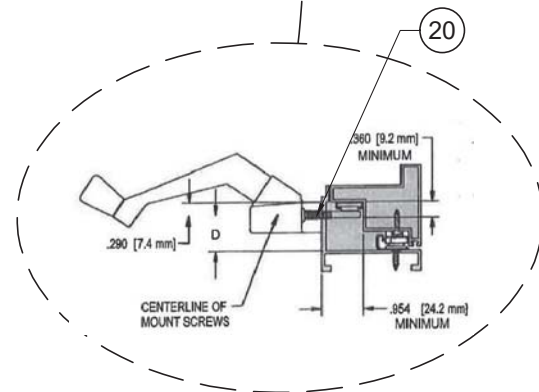
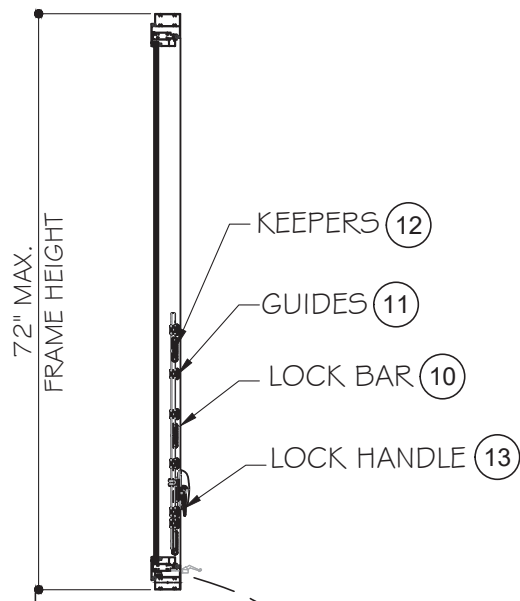
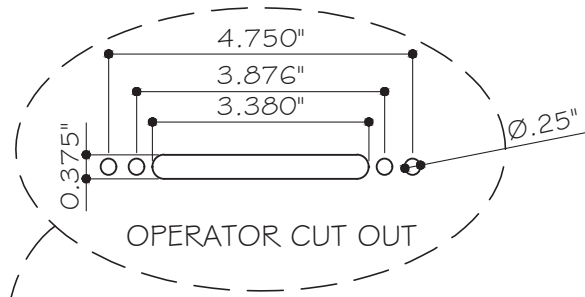
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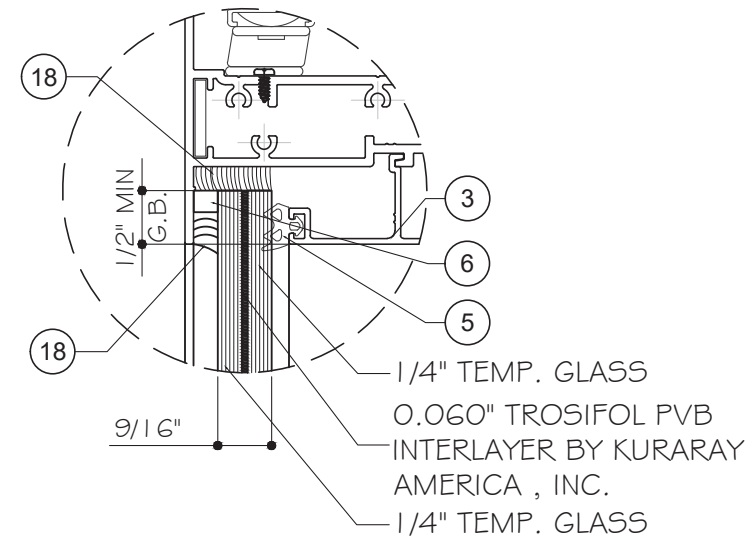


TYPICAL EXTERIOR ELEVATIONS(X)

DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+ 100 PSF - 100 PSF

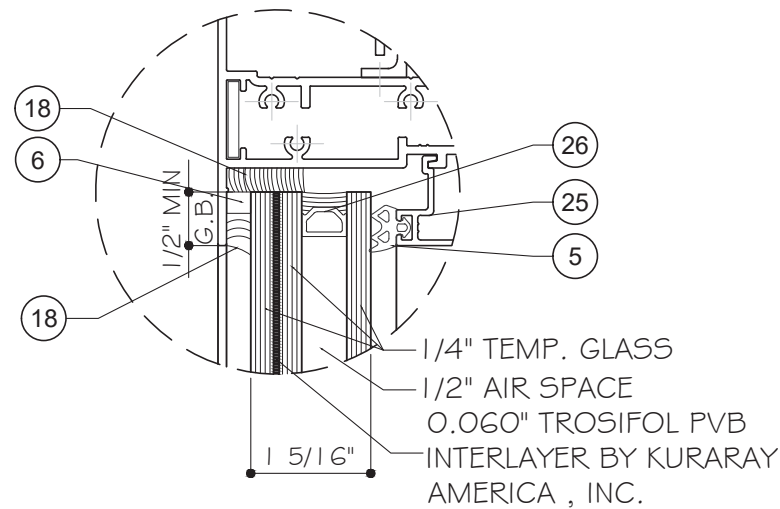


(08) TRUTH OPERATOR SIDE VIEW



G3 GLASS TYPE 'G3'
9/16" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).



G4 GLASS TYPE 'G4'
1 5/16" NOMINAL OVERALL

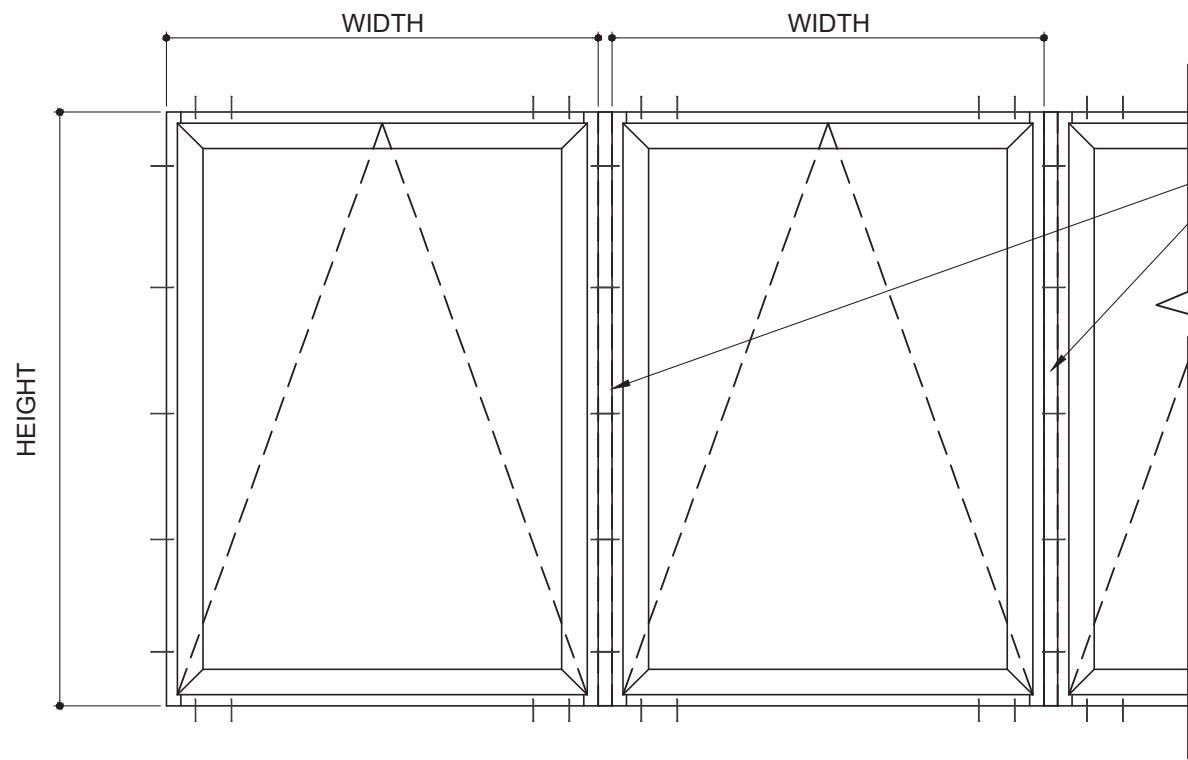
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YIP WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 5598377
August 03rd, 2023

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APPROVED FLORIDA MULLION
OR METAL STRUCTURE
ADEQUATE TO SUPPORT
LOADS IMPOSED ON IT.
(TO BE ENGINEERED
SEPARATELY)

HARDWARE:

THREE POINT LOCK WITH HANDLE
(CLO2-0600 NOVA MULTIPOINT) BY INTERLOCK

(2) SURFACE MOUNT HANDLES WITH LOCKING BAR AND
GUIDES MECHANISM LOCATED AT FRAME JAMBS WITH
CAM-LOCK ATTACHED TO FRAME W/ (2) #8-36 X 5/8" SDS
AT 12" FROM BOTTOM AND (2) ST/ST SPACERS.

- SURFACE MOUNTED NYLON KEEPERS BY INTERLOCK TO
RECEIVE LOCK BAR KNOBS ATTACHED AT LOCK VENT
JAMB WITH (3) #10 X 1/2" FH. SMS. AND (2) ST/ST
SPACERS AT 6" FROM BOTTOM AND 14" O.C. MAX.
- SURFACE MOUNTED NYLON SLIDE GUIDES BY INTERLOCK
BY INTERLOCK ATTACHED TO LOCK FRAME JAMB W/ (2)
#8 X 3/4" F.H. SMS. AT 8 3/4" FROM BOTTOM AND 9 3/8"
O.C. MAX.

HINGES:

STERLING HEAVY DUTY FRICTION 4 BAR HINGES,
SELF BALANCING, AT JAMBS RAILS BY SECURISTYLE,
ATTACHED WITH (5) #10 X 3/4" SS. PH. SDS TO FRAME.
AND (5) #10 X 3/4" SS. PH. SDS. (1) #10 X 3/4" FH SDS TO
VENT (EACH).

OPERATOR:

(1) TRUTH DOUBLE ARM PIVOT SHOE OPERATOR 22.18
FACE MOUNTED LOCATED AT CENTER OF FRAME SILL
W/ (4) #10-24x3/4" FH MS.

TYPICAL ANCHORS:

TYPE "A": 1/4" DIA. HILTI KWIK CON II ($F_u = 137$ KSI, $F_y = 138$ KSI)
DIRECTLY INTO CONCRETE
1-3/8" MIN. EMBED DIRECTLY INTO CONCRETE
OR 1" MIN. EMBED INTO C90 CONCRETE BLOCK (JAMB ONLY)

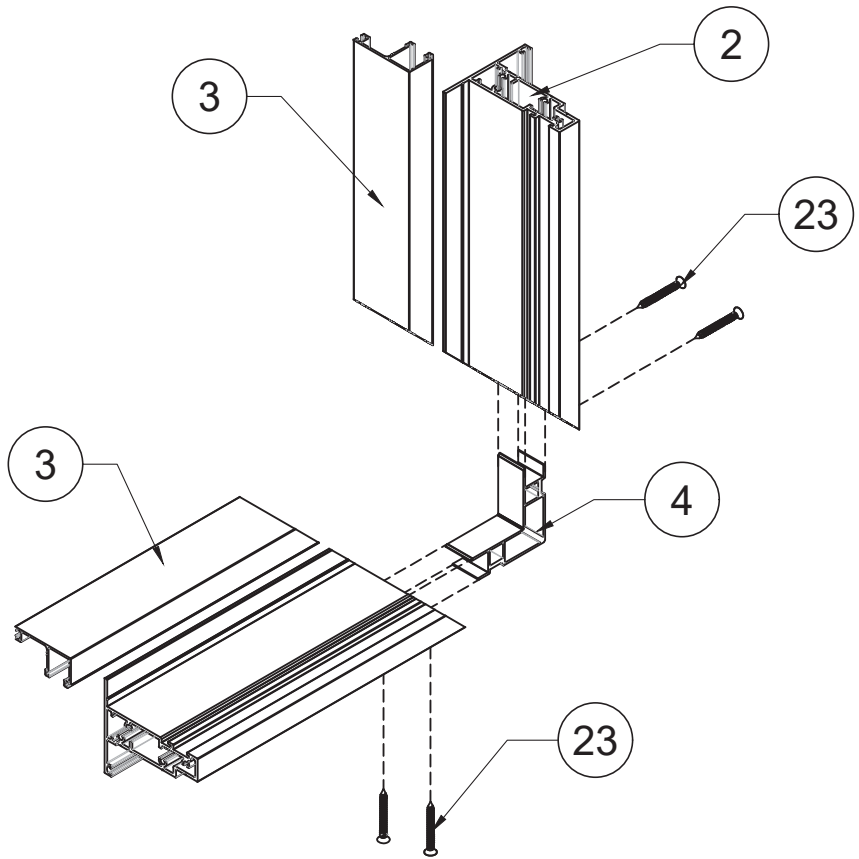
TYPE "B": #14 HILTI KWIK FLEX ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO STEEL
STEEL : 12 GA. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
INTO FLORIDA APPROVED ALUMINUM MULLIONS
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

SUBSTRATES:

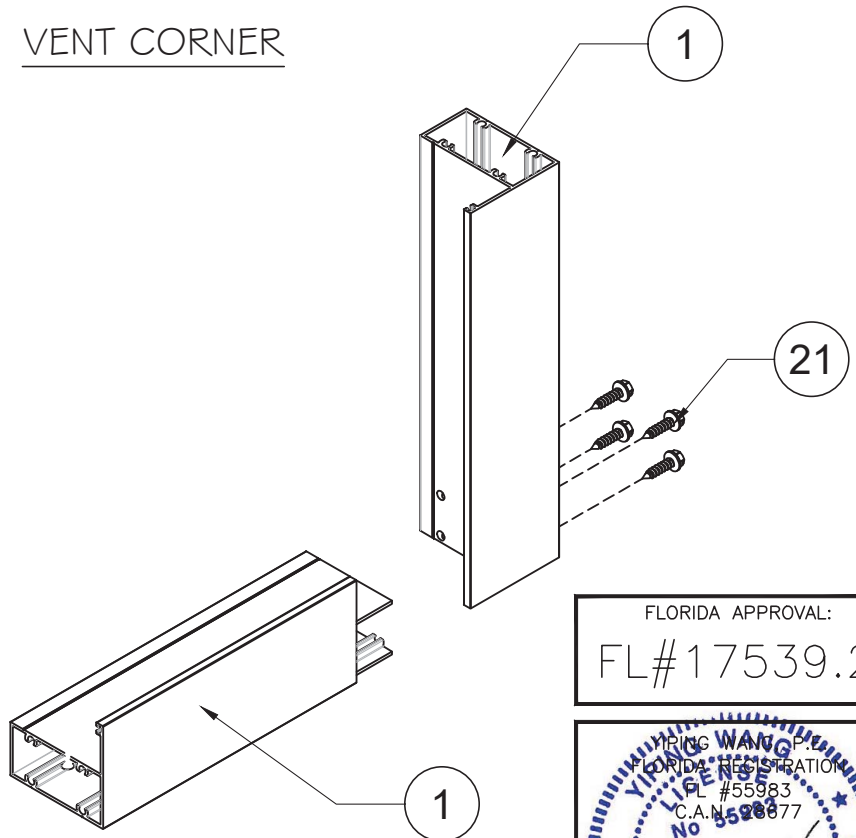
MASONRY
GROUT FILLED CONCRETE BLOCK: ASTM C90 GRADE N.
HOLLOW BLOCK: ASTM C90 GRADE N.

CONCRETE
 $f'_c = 3,000$ PSI MIN.

ANCHOR EDGE DISTANCES
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO METAL STRUCTURE = 1" MIN.
SEALANT: TREMCO SPECTREM 2 WITH BACKER ROD
APPLIED ALL AROUND THE PERIMETER OF FRAME ON THE
EXTERIOR, FRAME CORNERS, GLAZING BEAD SEAMS AT
EACH END, FIXED MEETING RAIL AT EACH END,
INSTALLATION FASTENERS AT FRAME HEAD, SILL AND
JAMBS.

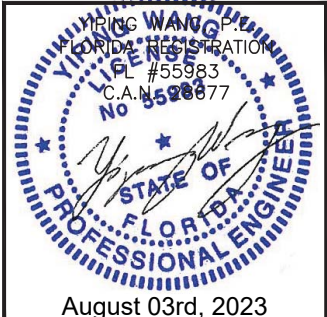


VENT CORNER



FRAME CORNER

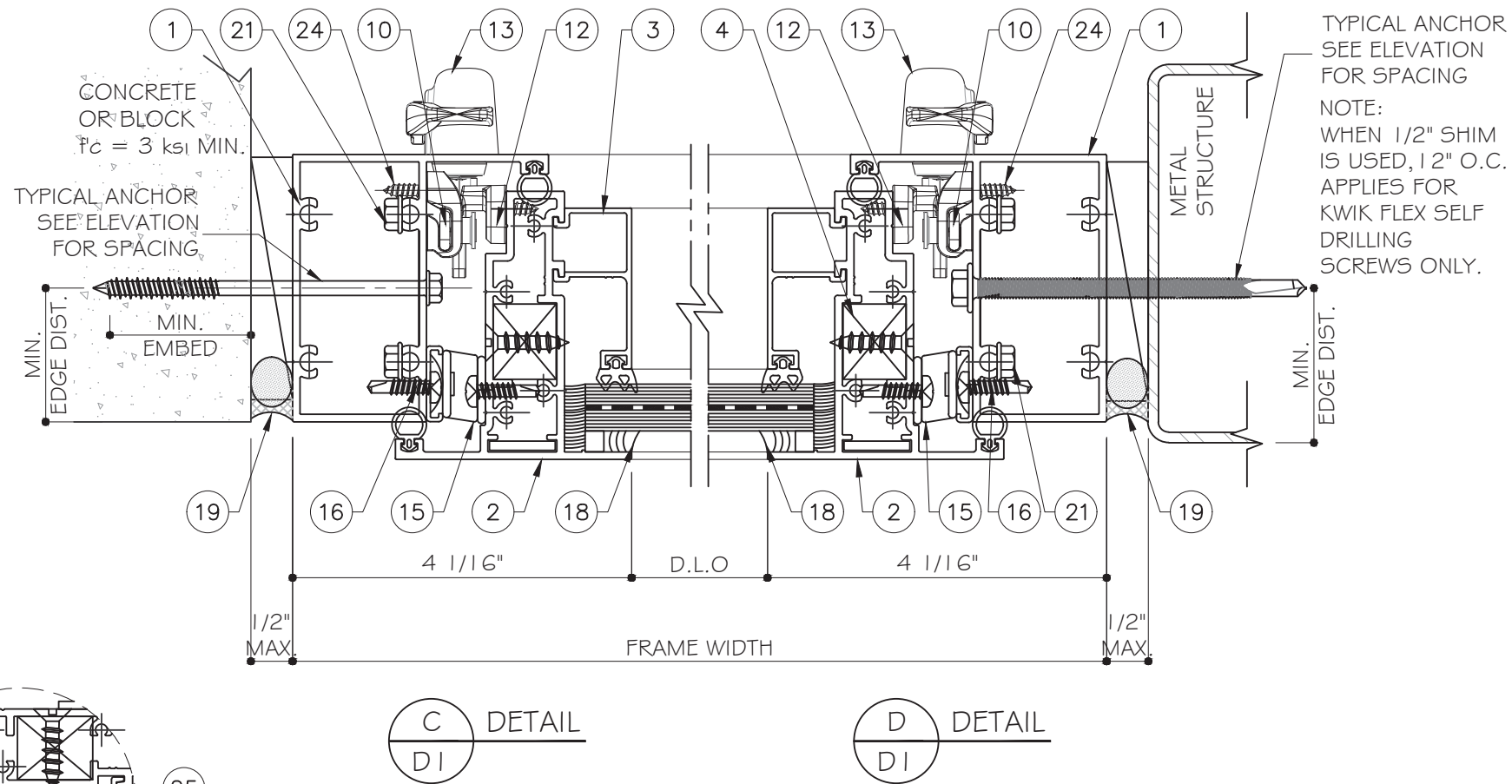
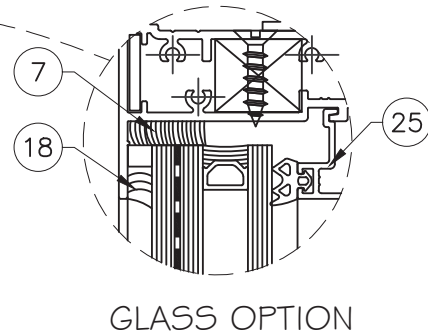
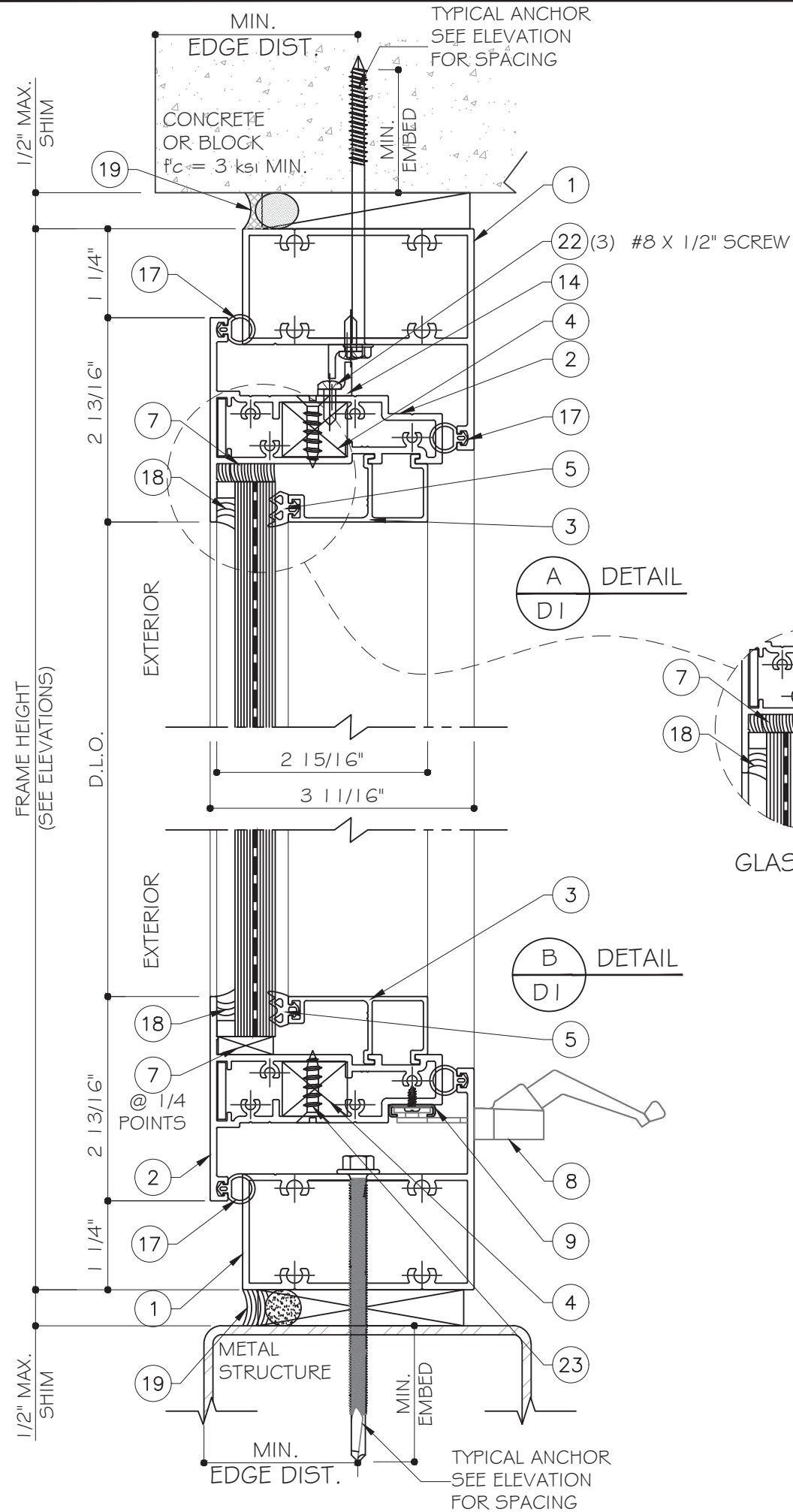
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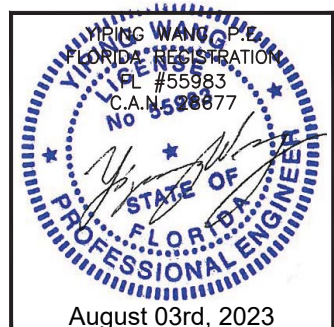
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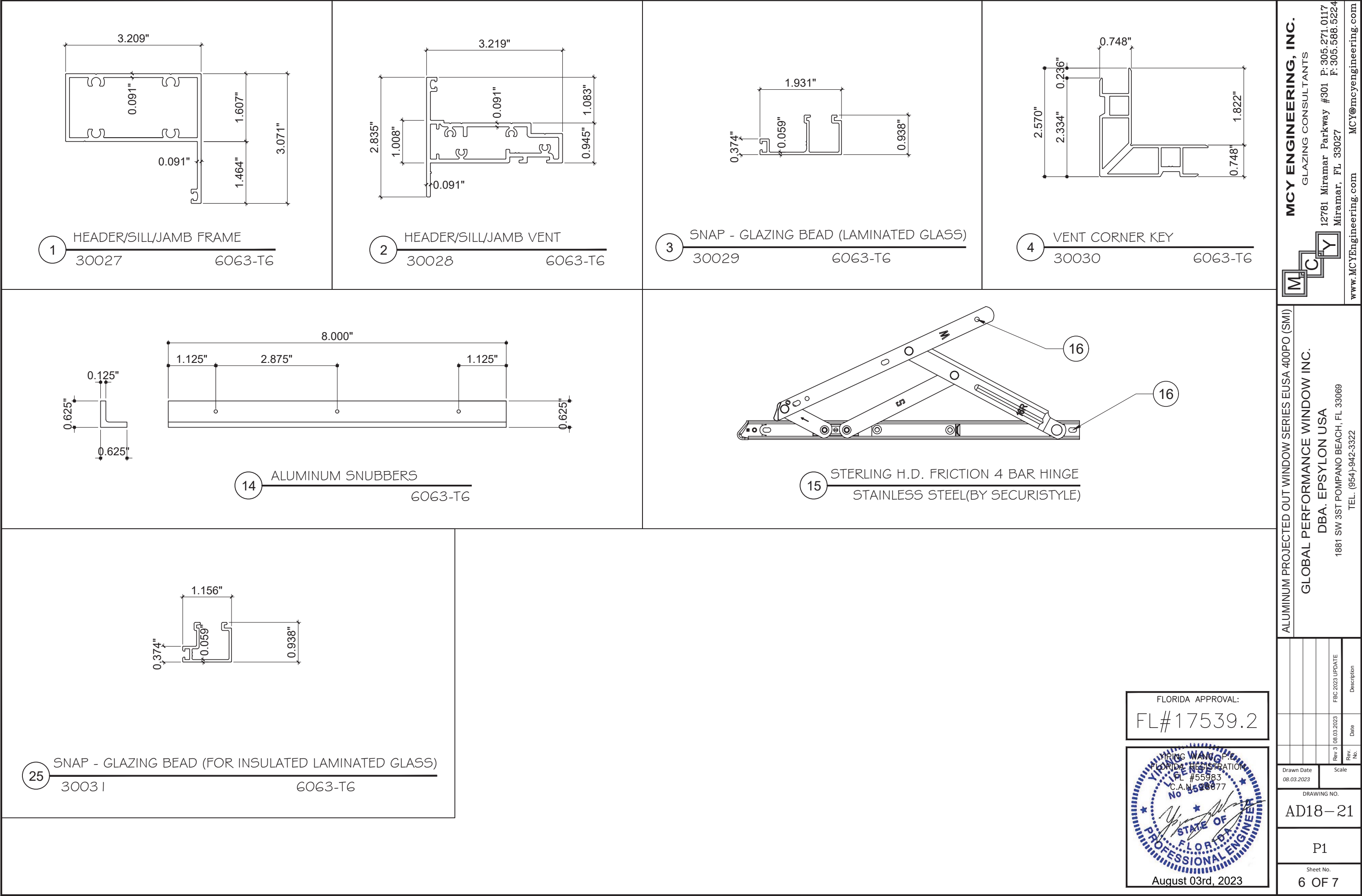
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BILL OF MATERIALS					
ITEM #	PROFILE	QTY.	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	30027	4	FRAME HEADER/SILL/JAMB	ALUM. 6063-T6	METRA ALUMINUM INC
2	30028	4	VENT HEADER/SILL/JAMB	ALUM. 6063-T6	METRA ALUMINUM INC
3	30029	4	SNAP - GLAZING BEAD FOR LAMINATED GLASS	ALUM. 6063-T6	METRA ALUMINUM INC
4	30030	4	VENT CORNER KEY	ALUM. 6063-T6	METRA ALUMINUM INC
5	91501	AS REQ'D.	EPDM GASKET	EPDM	TREMCO-DUROMETER 70
6		AS REQ'D.	NORTON TAPE 1/4" X 1/4" CONTINUOUS @ LMI		3M
7		AS REQ'D.	NEOPRENE SETTING BLOCK @ 1/4 POINTS	NEOPRENE	
8		1	22.18 FACE MOUNT PROJECT OUT OPERATOR		TRUTH HARDWARE
9	30169	1	30169 PROJECT OUT OPERATOR TRACK	ST/ST	TRUTH HARDWARE
10	CLE02-002	1	CLE02-002 MULTIPOINT LOCKING BAR	ST/ST	INTERLOCK - ASSA ABLOY
11	CLO2-2035	AS REQ'D.	CLO2-2035 MULTIPOINT LOCKING BAR GUIDE W/ (3) #8 X 3/4" FH. SMS.	NYLON	INTERLOCK - ASSA ABLOY
12	CLO2-2059	AS REQ'D.	CLO2-2059 MULTIPOINT KEEPERS W/ (3) #10 X 1/2" FH. SMS.	NYLON	INTERLOCK - ASSA ABLOY
13	CLE02-0600 & CLO2-1020	1	CLE02-0600 & CLO2-1020 LOCK & HANDLE		INTERLOCK - ASSA ABLOY
14		2	SNUBBERS 5/8" X 5/8" X 1/8" X 8" LONG W/ (3) #8 X 3/4" PH. SMS. AT VENT AND FRAME JAMBS	6063-T6	SECURISTYLE
15	STP26	2	SPT26 - PROJECT OUT 4 BAR HINGE	ST/ST	SECURISTYLE
16		AS REQ'D.	#10 X 3/4" SS. PH. SDS.	ST/ST	
17	93104	AS REQ'D.	FRAME BULB VINYL	VINYL	TREMCO / DURO 70
18		AS REQ'D.	STRUCTURAL SILICONE PROGLAZE II / STRUCTURE SILICONE SPECTRUM 2	SILICONE	TREMCO
19		AS REQ'D.	HIGH PERFORMANCE SILICONE SPECTREM 2	SILICONE	TREMCO
20		4	#10-24 FH SS. MACHINE SCREWS	ST/ST	SECURISTYLE
21		AS REQ'D.	#14 X 1 1/4" FRAME ASSEMBLY SCREWS HH SMS	ST/ST	
22		AS REQ'D.	#8 X 1/2" SS. PH. SMS.	ST/ST	
23		AS REQ'D.	#8 X 1" VENT ASSEMBLY SCREWS SS. FH SMS	ST/ST	
24		AS REQ'D.	#8 X 3/4" SS. FH. SMS.	ST/ST	
25	30031	4	SNAP - GLAZING BEAD FOR INSULATED LAMINATED GLASS	ALUM. 6063-T6	METRA ALUMINUM INC
26			SPACER	SILICONE	QUANEX BUILDING PRODUCTS

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August 03rd, 2023