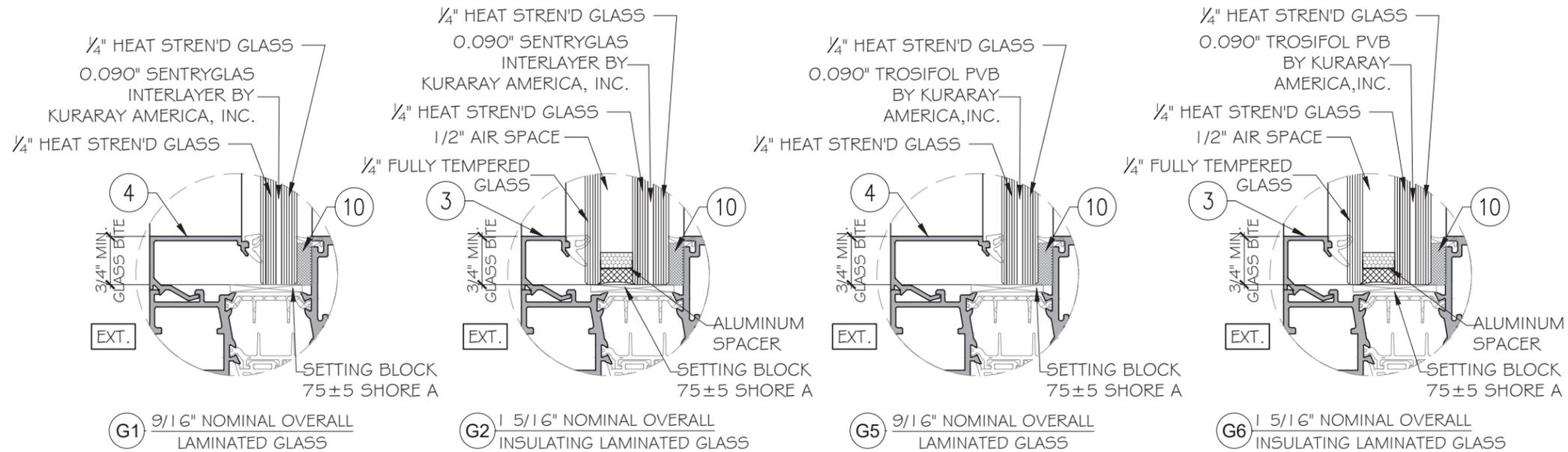


# KA 4016 ALUMINUM CASEMENT LARGE MISSILE IMPACT



**GENERAL NOTES:**

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOW IS DESIGNED TO BE USED AT LARGE MISSILE AREA.
- WINDOWS ARE APPROVED FOR AIR RESISTANCE AND WATER RESISTANCE.
- 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 FLORIDA BUILDING CODE 8TH EDITION 2023 SECTION AS APPLICABLE.
- WOOD BUCKS/METAL STRUCTURES BY OTHERS 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.
- NOTE: HARDWARE CHECKED FOR WIND LOAD IN CLOSED POSITION ONLY; OPERATION PER MANUFACTURER'S INSTRUCTIONS. WINDOWS MUST BE CLOSED AND SECURED WHEN A HURRICANE WARNING IS ISSUED.

**INSTRUCTIONS:**  
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 TYPICAL ELEVATION ON SHEET E1 FOR MAXIMUM SIZES AND DESIGN LOADS.
- STEP 3:** SEE ANCHOR TYPES ON SHEET A1. SEE SHEET E1 FOR ANCHOR SPACING.
- STEP 4:** THE LOWEST VALUE RESULTING FROM STEPS 2 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

**NOTE:**  
GLASS COMPLIES WITH ASTM E1300-09  
(3 SEC. GUSTS)

ABBREVIATIONS AND SYMBOLS	
D.L.O. - DAYLITE OPENING	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	SECTION NUMBER
W/ - WITH	
W/O - WITHOUT	
VERT. - VERTICAL	
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 HEREIN. 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.	
E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.	

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ENGINEER OF RECORD  
FLORIDA REGISTRATION  
No. 55983  
C.A.N. 28677

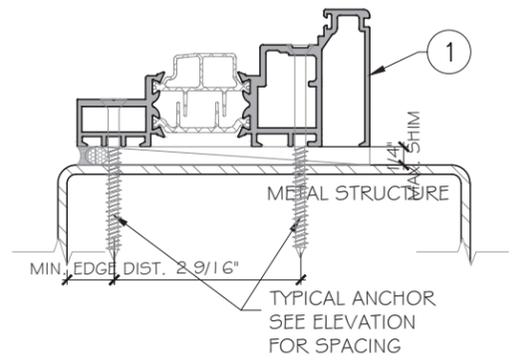
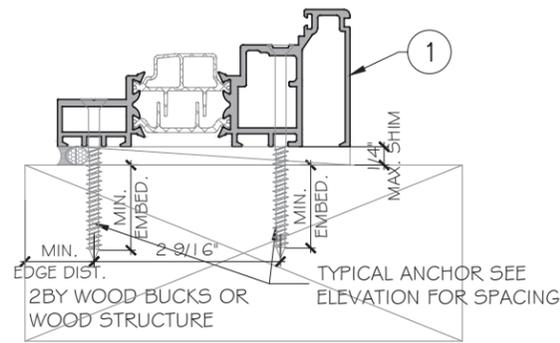
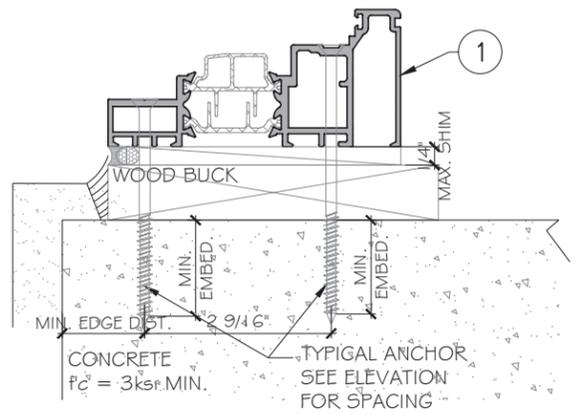
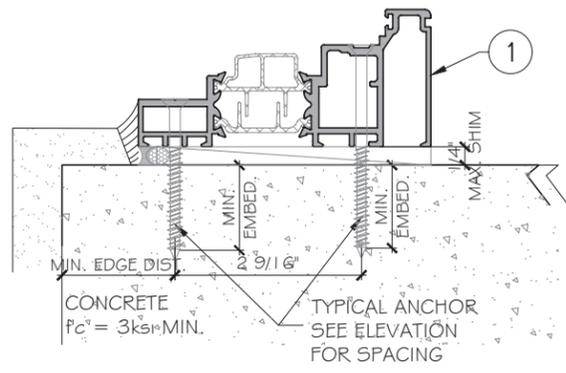
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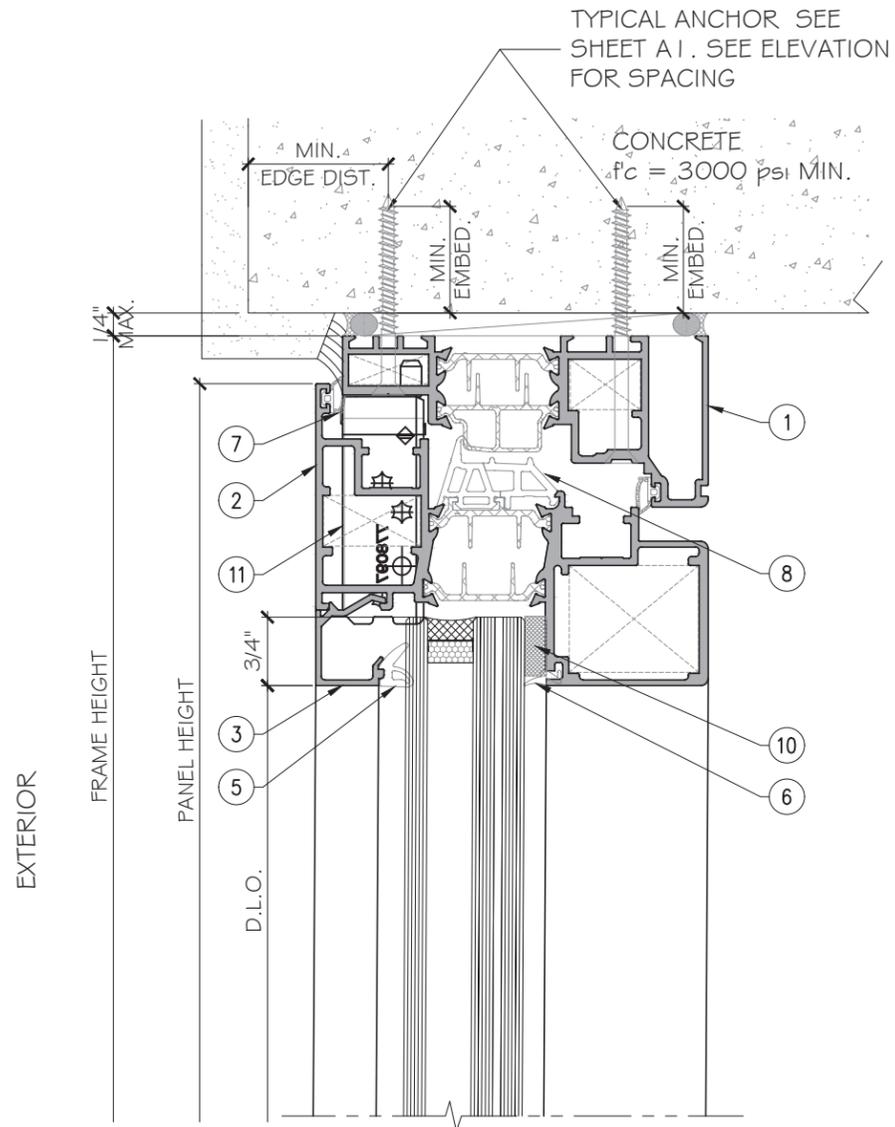
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 www.MCYEngineering.com mcy@mcyengineering.com

KA 4016 ALUMINUM CASEMENT - L.M.I.  
**UNIK FENESTRATION**  
 KM 8.5 VIA DURAN TAMBO  
 GUAYAS, ECUADOR  
<https://www.yetrikoecc.com>

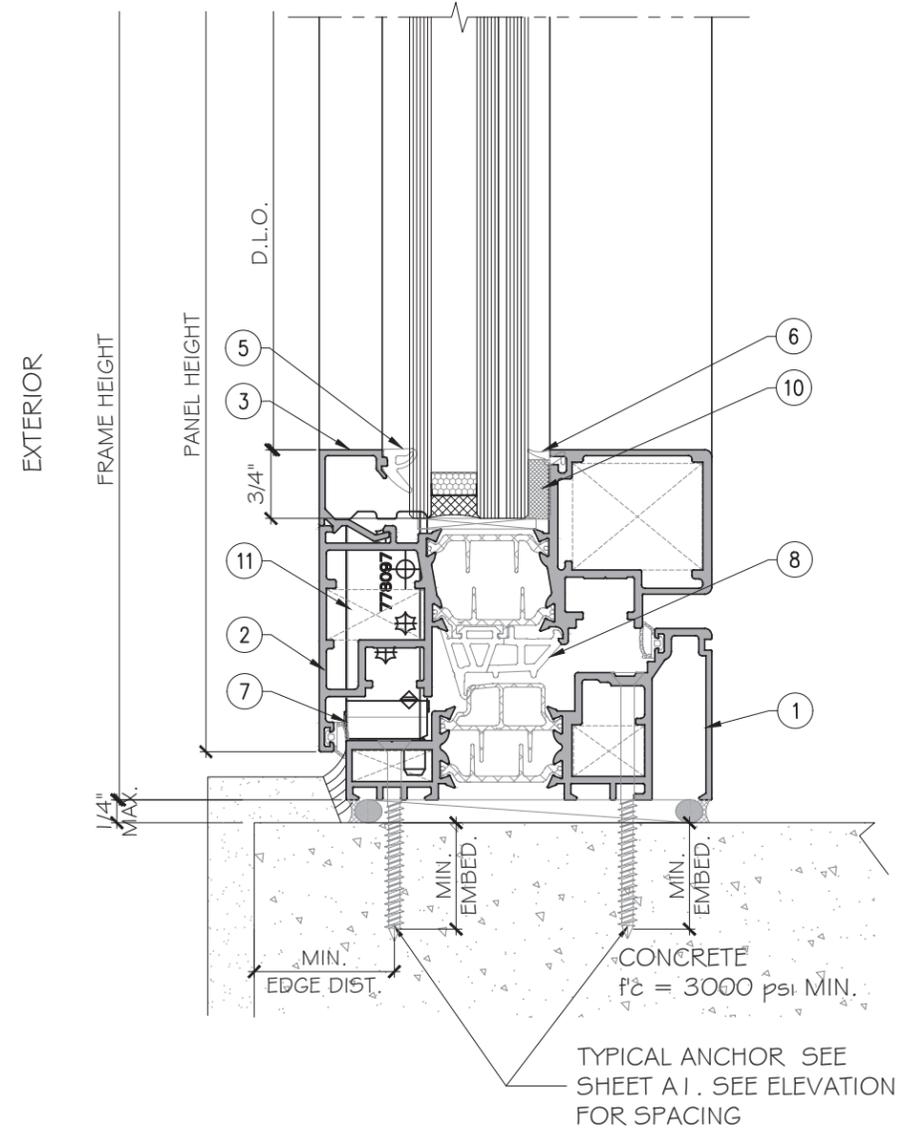
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A  
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DETAIL



B  
DI

DETAIL

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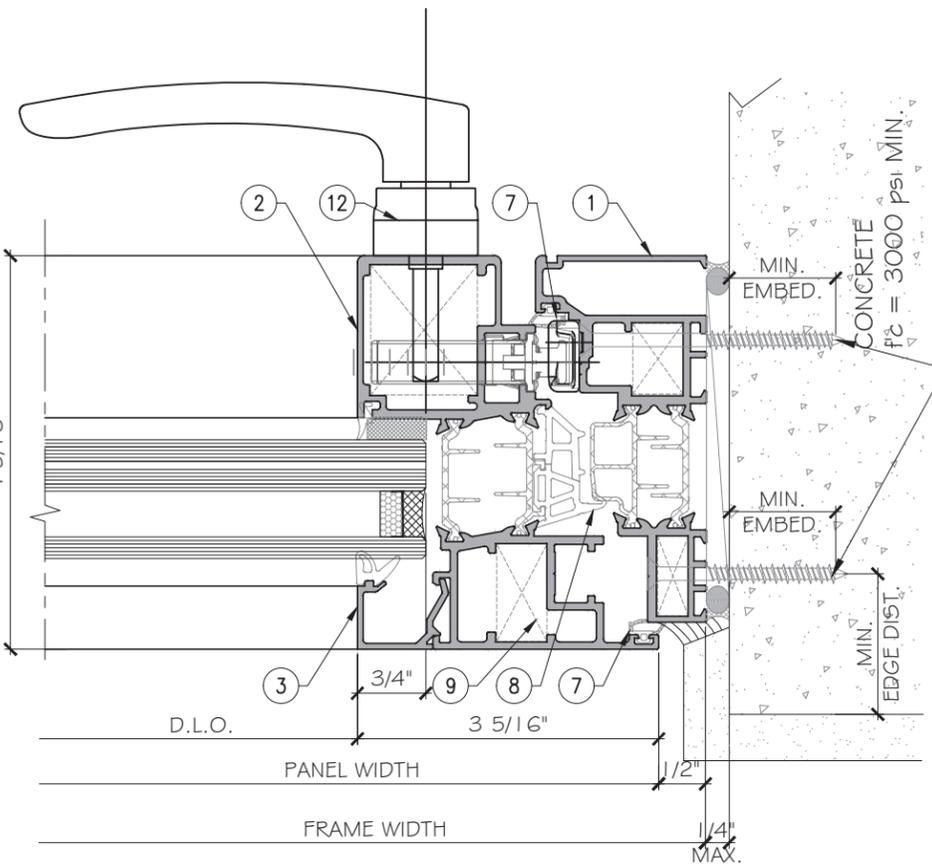
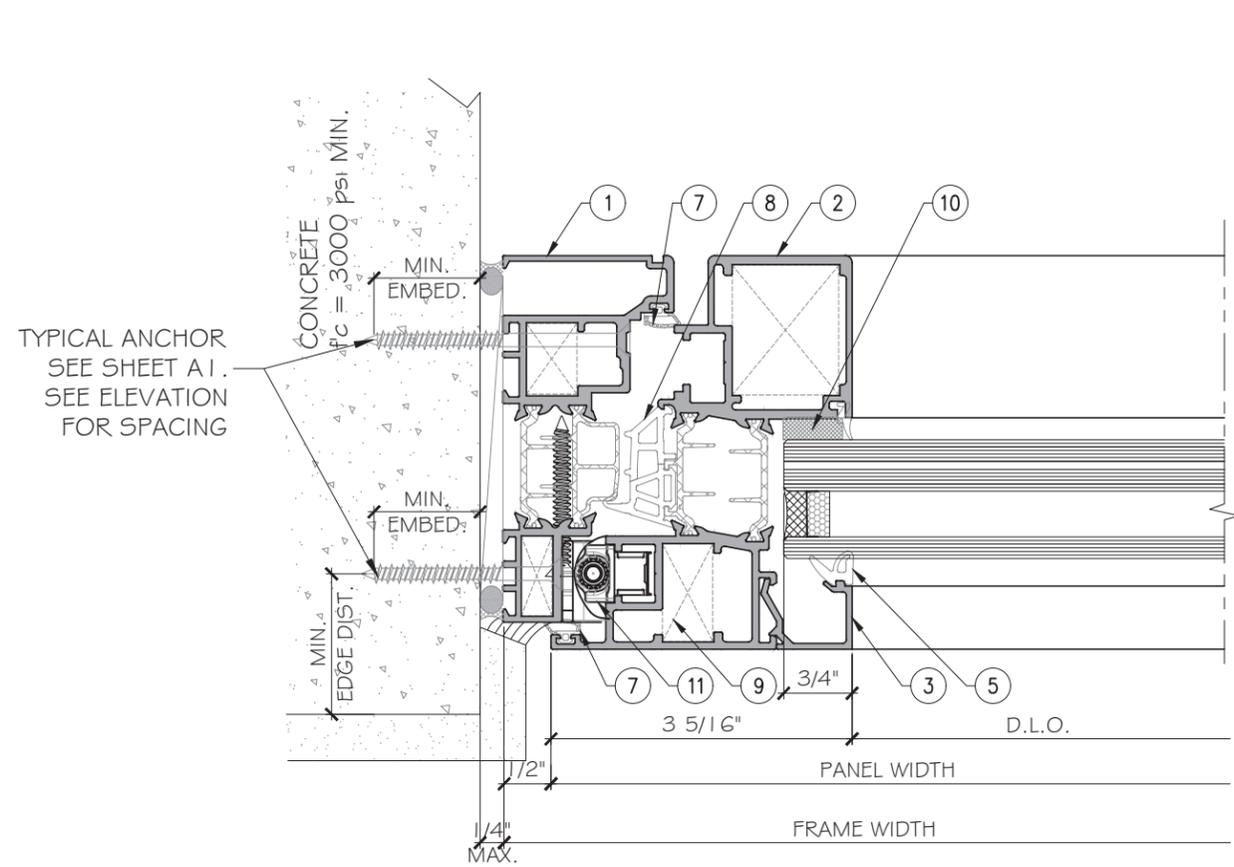
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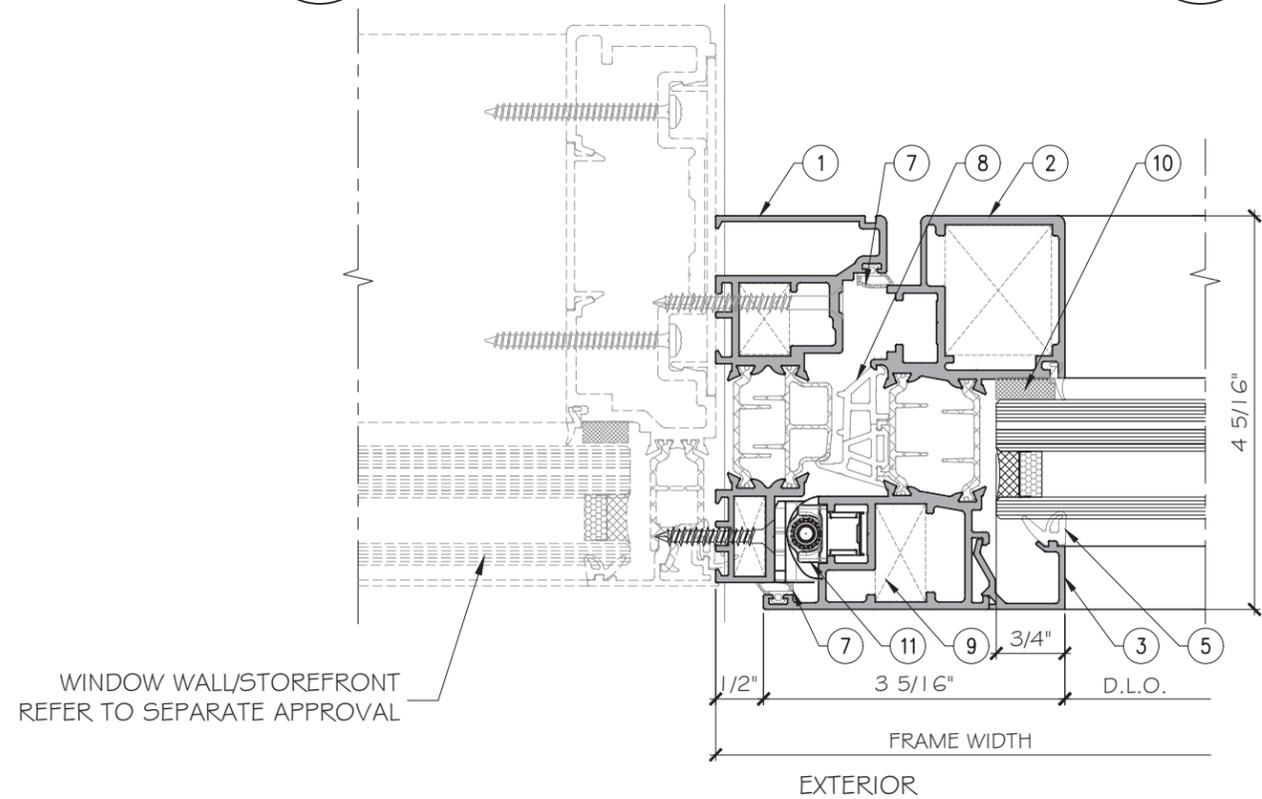
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EXTERIOR

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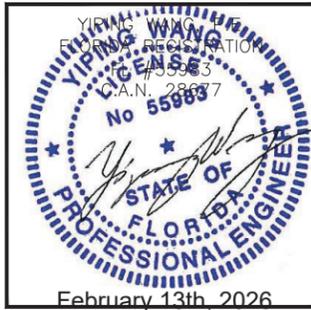
D  
D2  
DETAIL



EXTERIOR

E  
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DETAIL

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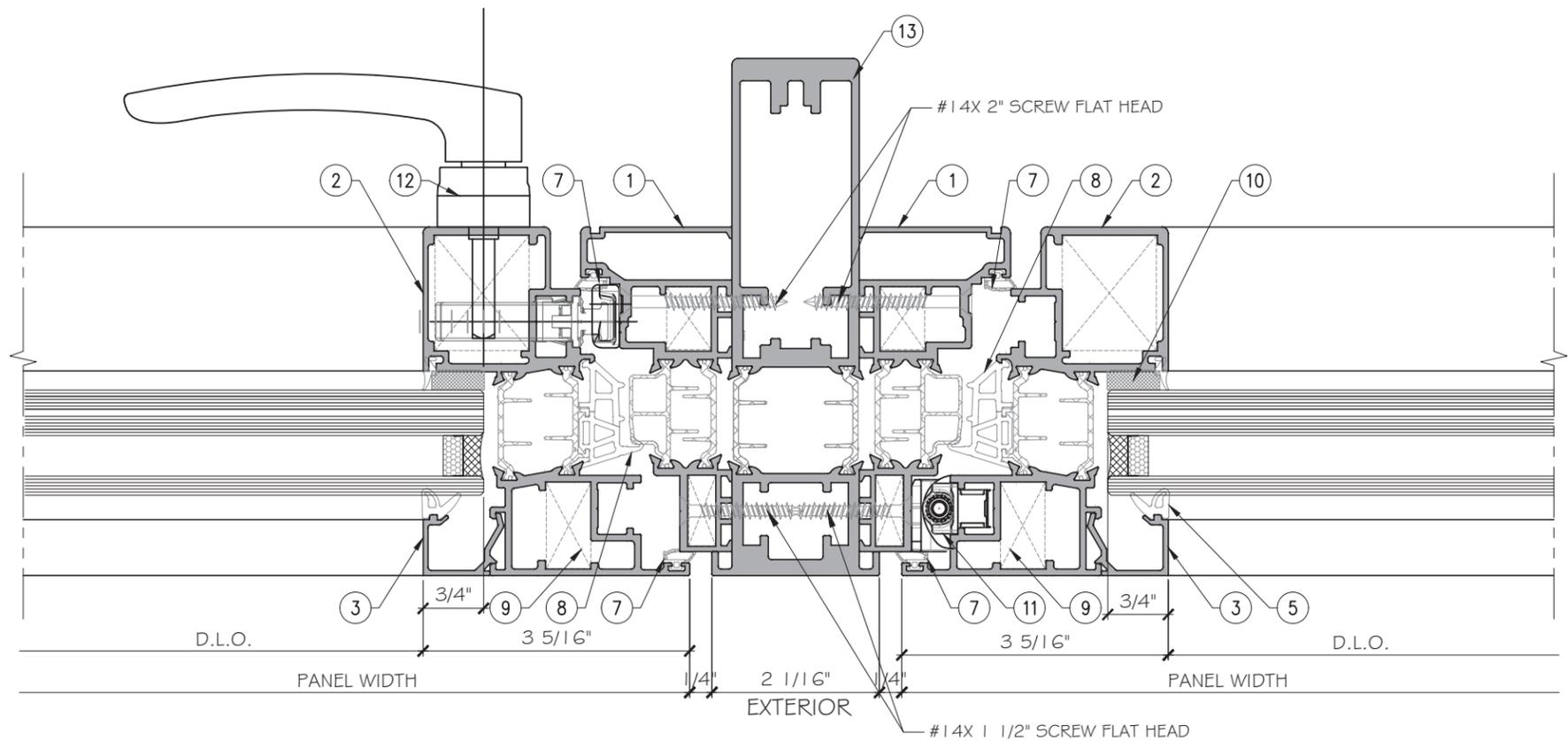
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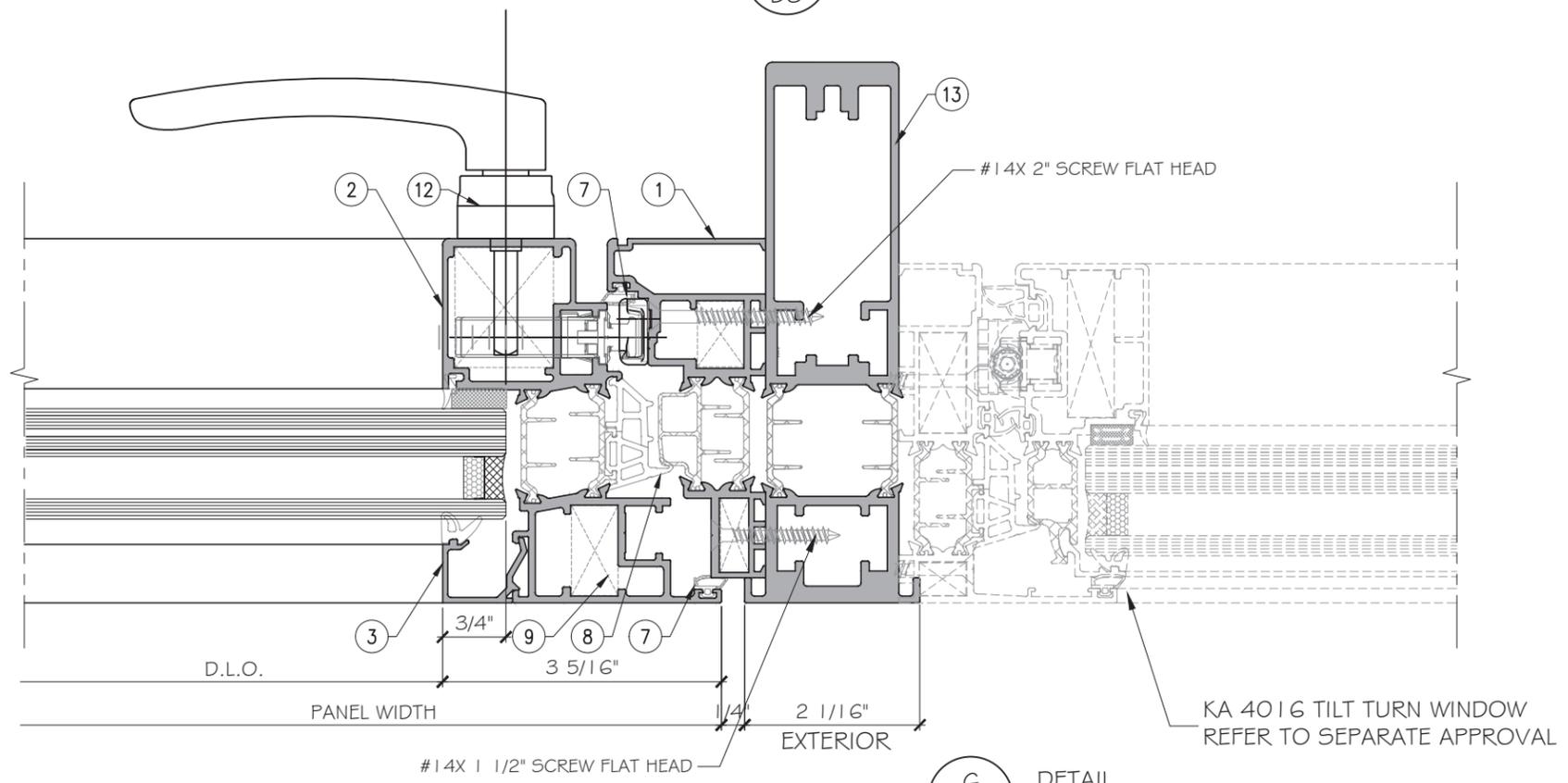
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F  
D3  
DETAIL



G  
D3  
DETAIL

KA 4016 TILT TURN WINDOW  
REFER TO SEPARATE APPROVAL

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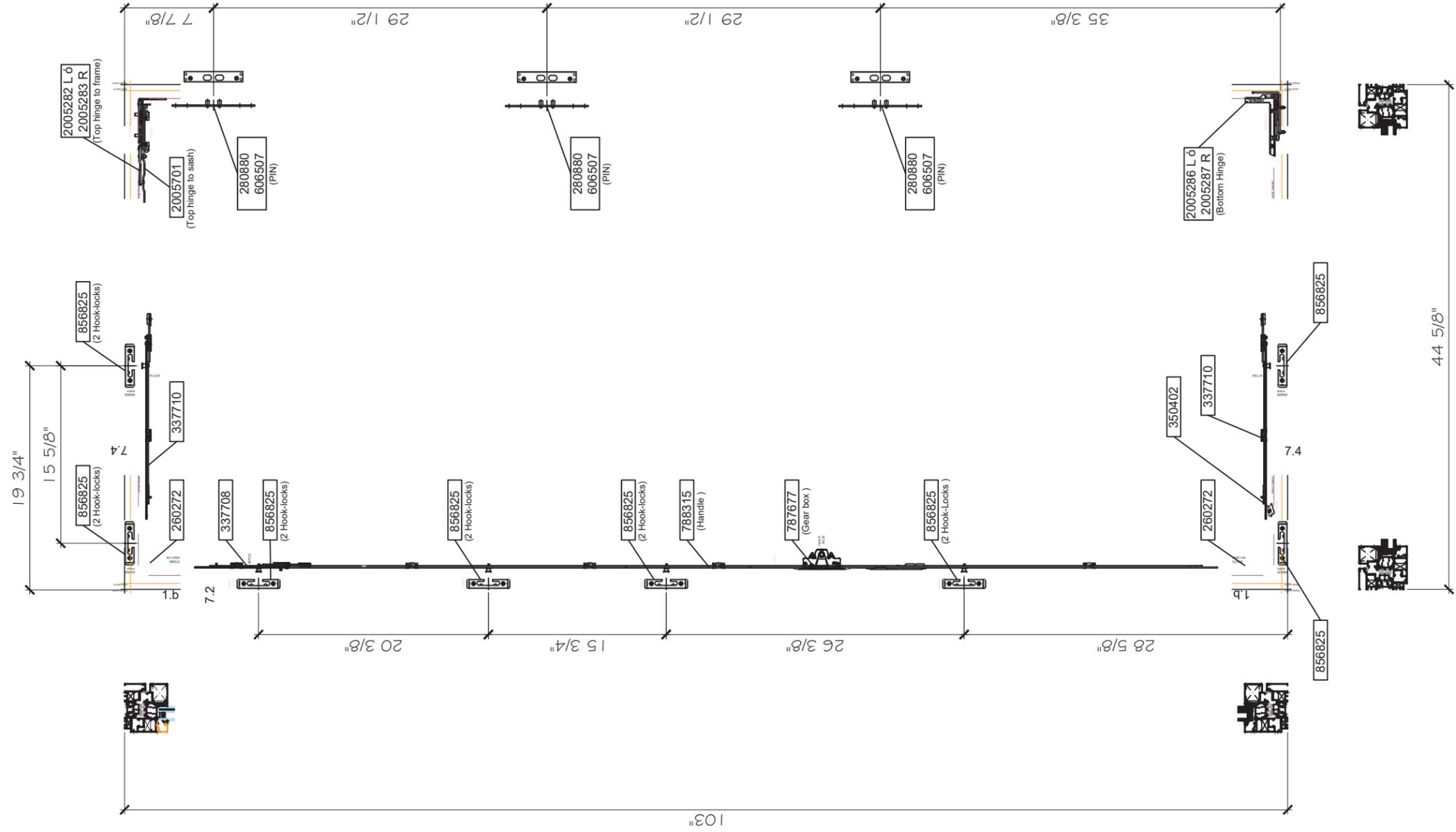
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CASEMENT HARDWARE - I

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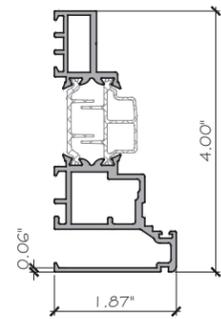
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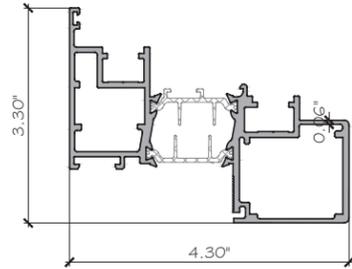
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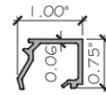




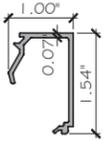
① FRAME JAMB  
DC-1006/1007 ALUM. 6063-T6



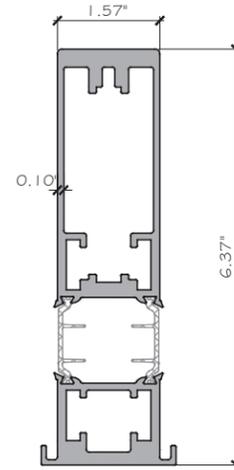
② SASH  
DC-1008/1009 ALUM. 6063-T6



③ GLASS COVER  
FI-6254 ALUM. 6063-T6



④ GLASS COVER  
FI-5895 ALUM. 6063-T6

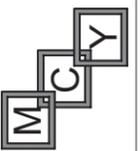


⑬ MULLION  
DC-1010/1011 ALUM. 6063-T6

BILL OF MATERIALS

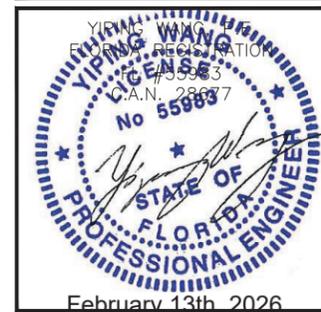
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1	DC1006/1007	FRAME JAMB	ALUM. 6063-T6	FISA
2	DC-1008/1009	SASH	ALUM. 6063-T6	FISA
3	FI-6254	GLASS COVER	ALUM. 6063-T6	FISA
4	FI-5895	GLASS COVER	ALUM. 6063-T5	FISA
5	AC-E-022	EXTERIOR GASKET	EPDM	PRICAL
6	AC-E-KA-01	GLASS SPACER FOR STRUCTURAL SILICONE	PLASTIC	PRICAL
7	AC-E-019	DOOR EXTERIOR GASKET	EPDM	PRICAL
8	AC-E-030	CENTRAL GASKET	EPDM	PRICAL
9	FI-5210,5209,4026	ALUMINUM CORNER JOINT	ALUM. ALLOY	FISA
10	GE 2000/SG-20 /SG-500/DOWSIL 983 /DOWSIL 995	STRUCTURAL SILICONE	SILICONE	SIKA
11	2005287	WINDOW HIDDEN HINGE	STAINLESS STEEL	ROTO
12	CRM-VITAL	WINDOW HANDLE	STAINLESS STEEL	ROTO
13	DC-1010/1011	MULLION	ALUM. 6063-T5	FISA

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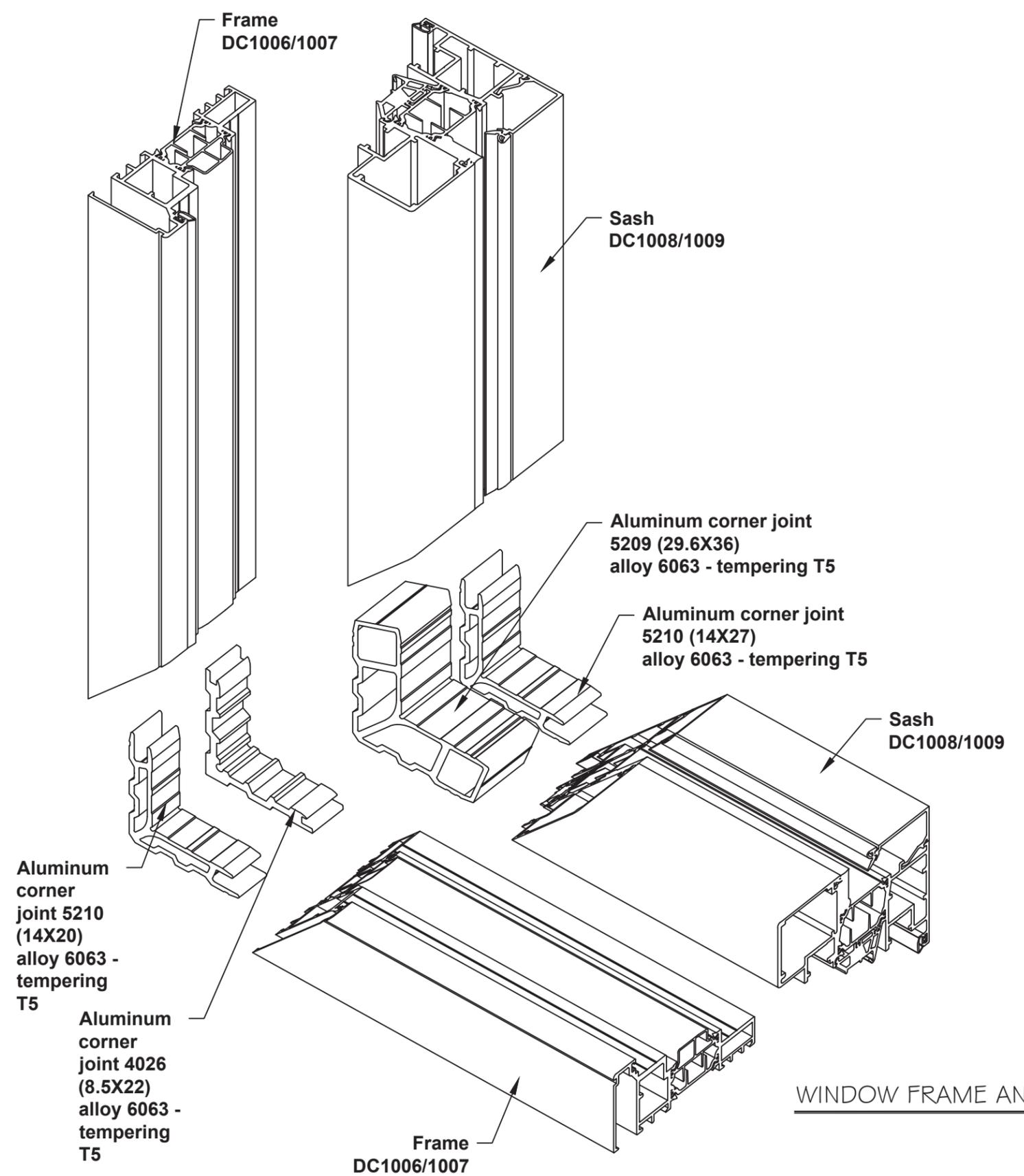
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PARTS

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WINDOW FRAME AND SASH CORNER

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February 13th, 2026

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