

UNI-K FENESTRATION PICTURE WINDOW LARGE MISSILE IMPACT

GENERAL NOTES:

- 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).
- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED. LARGE MISSILE IMPACT IS REQUIRED FOR INSTALLATIONS UP TO 30 FT OF 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 2023 (8TH EDITION) FLORIDA BUILDING CODE SECTION AS APPLICABLE.
- METAL/WOOD 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.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.
- 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 OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 & E2 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION. SEE SHEET G1 & G2 FOR GLASS OPTIONS AND ITS CAPACITY.
- STEP 3: ANCHOR TYPE SEE SHEET A1. ANCHOR SPACING SEE SHEET E1.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

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

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.
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:
FL47976.1

January 12th, 2026

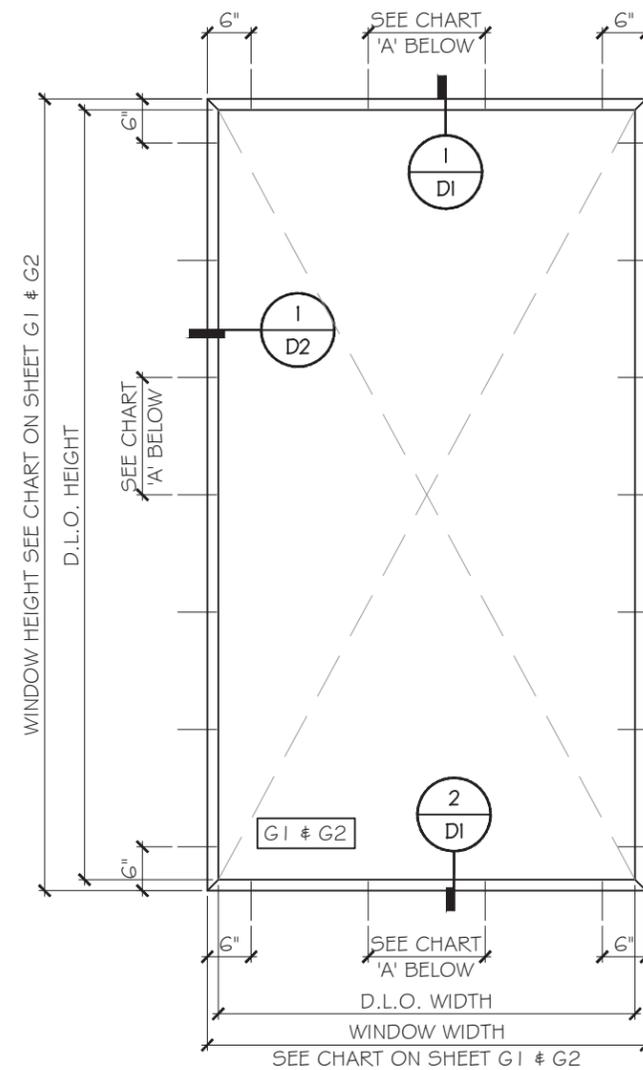
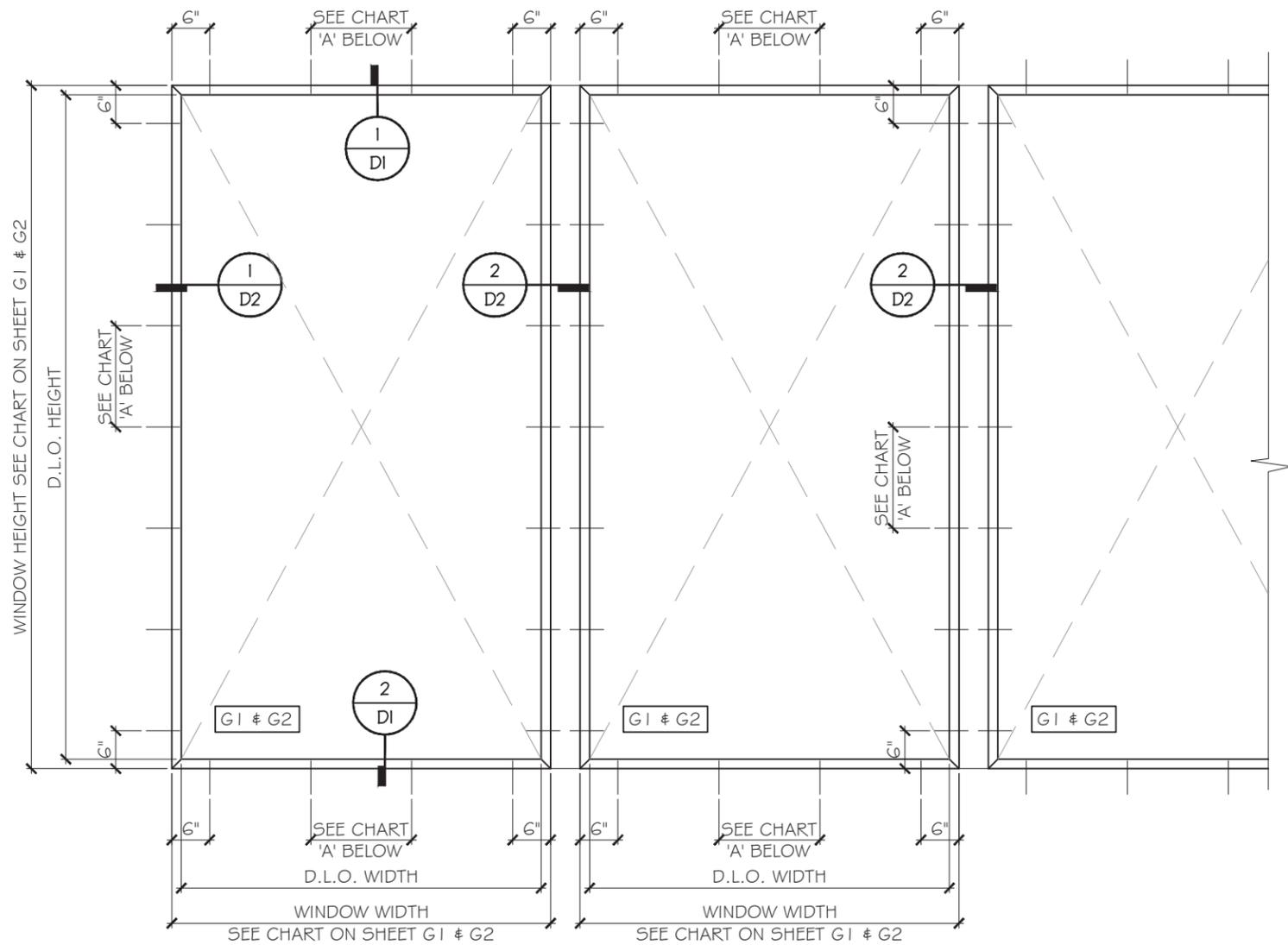


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PICTURE WINDOW SYSTEM LARGE MISSILE IMPACT
UNI-K Fenestration
KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR
<https://www.unik-windows.com>

Rev. No.	Date	Drawn By	Description
01	12.12.2025	James	NEW APPLICATION

Drawn Date 12.12.2025	Scale AS SHOWN
DRAWING NO. AD25-55	
COVER	
Sheet No. 1 OF 14	



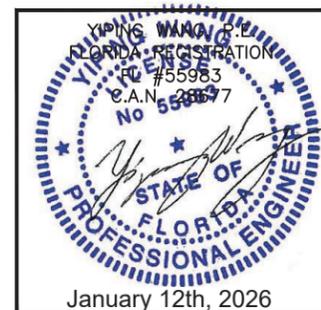
TYPICAL EXTERIOR ELEVATIONS

SEE SHEET G1 & G2 FOR DESIGN LOAD.

CHART A	
ANCHOR TYPE	ANCHOR SPACING
TYPE A	8" O.C.
TYPE B/C/D	16" O.C.

SEE SHEET A1 FOR ANCHOR TYPES.

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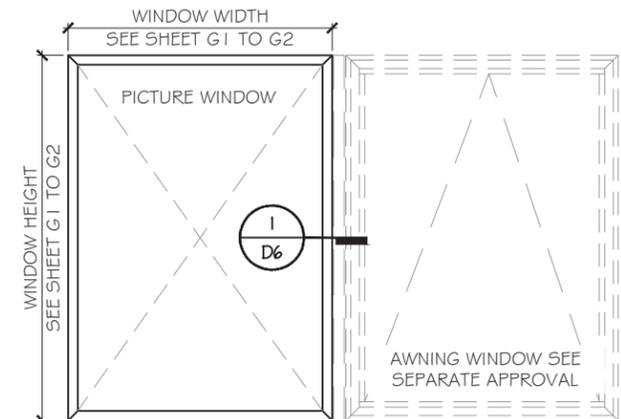
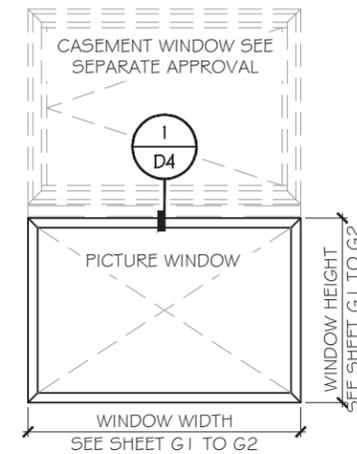
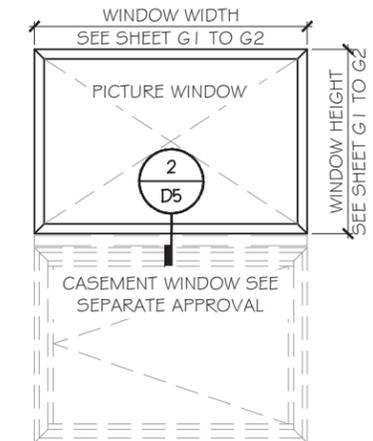
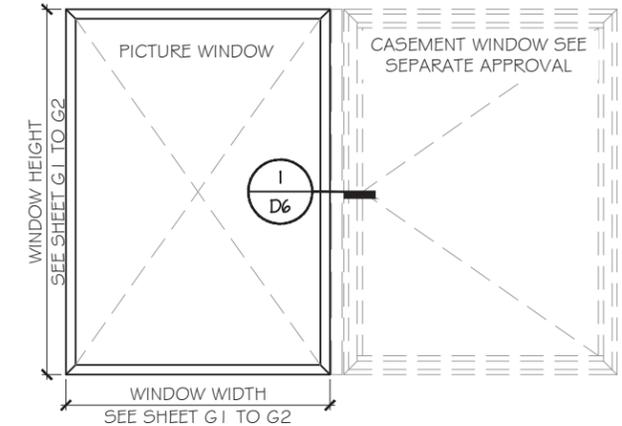
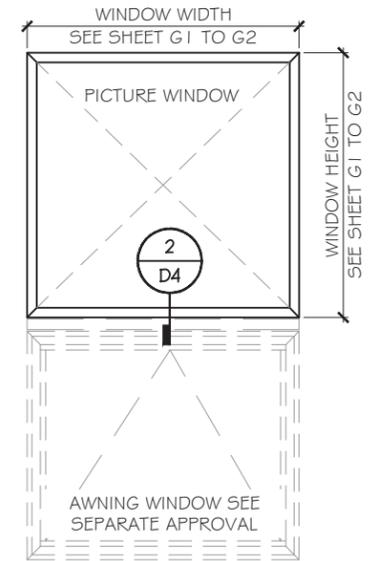
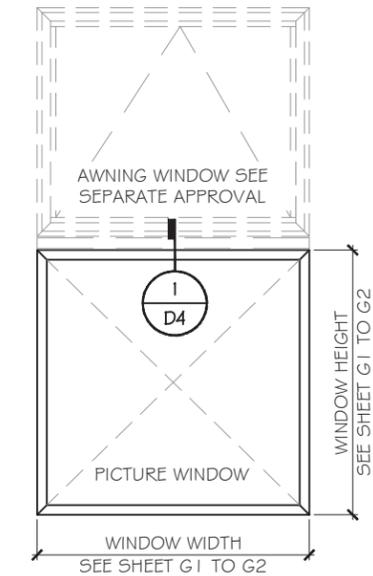
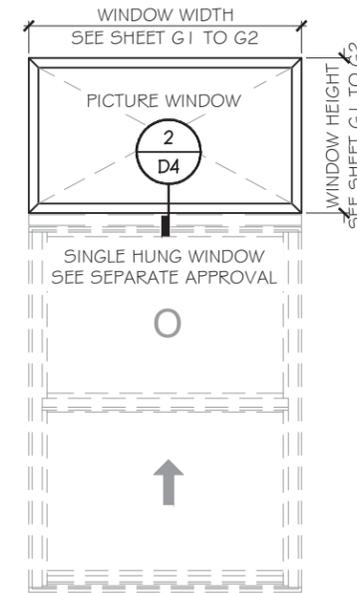
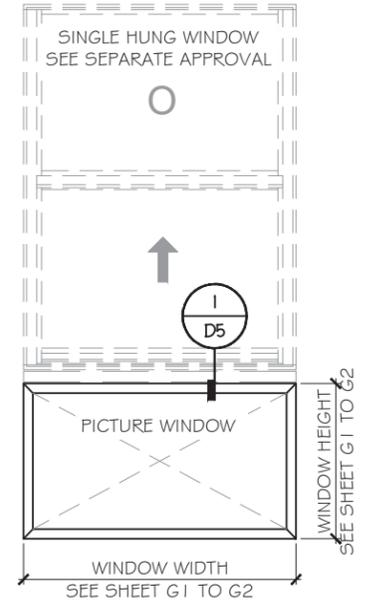
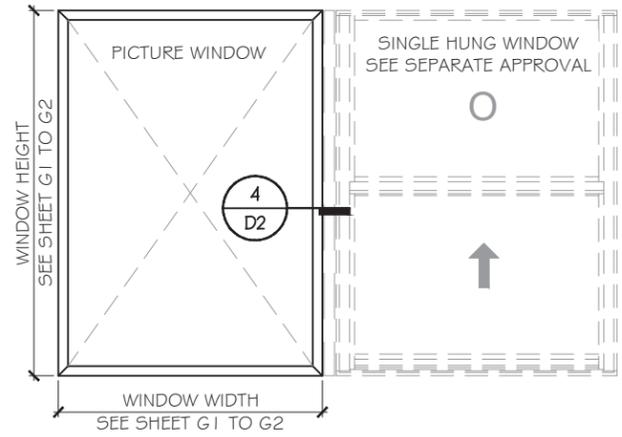
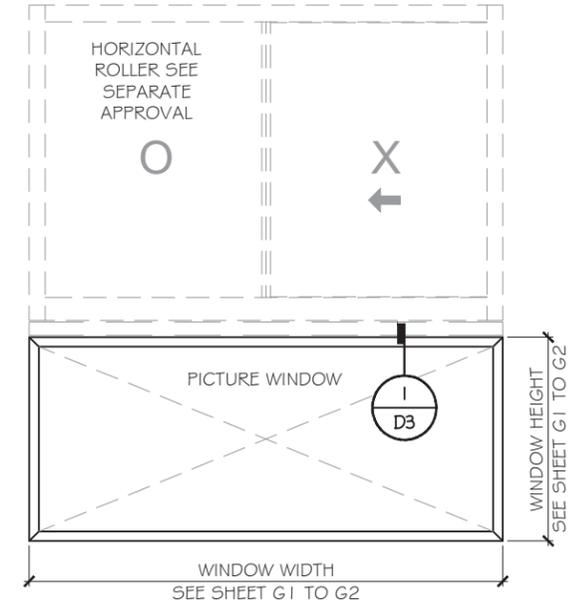
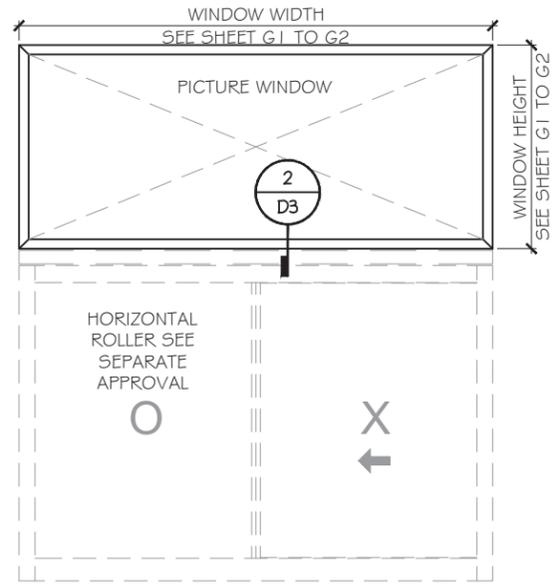
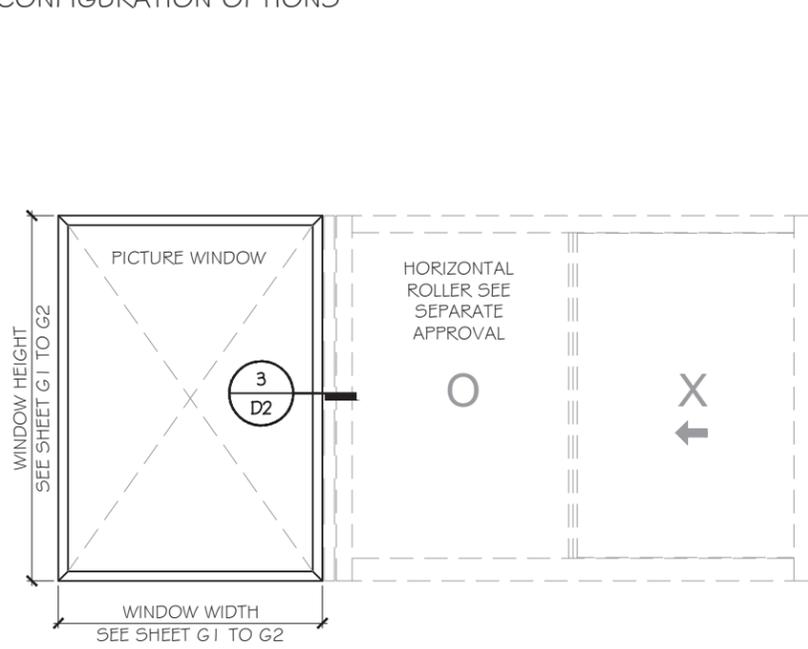
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AD25-55

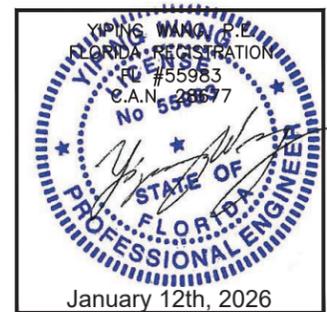
E1

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CONFIGURATION OPTIONS



FLORIDA APPROVAL:
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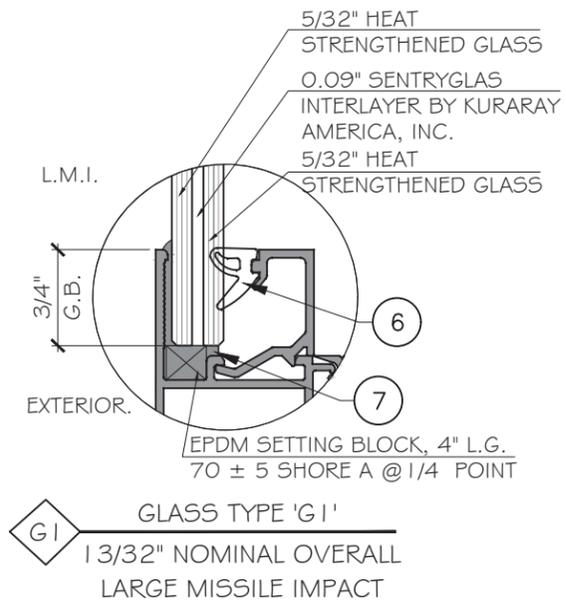
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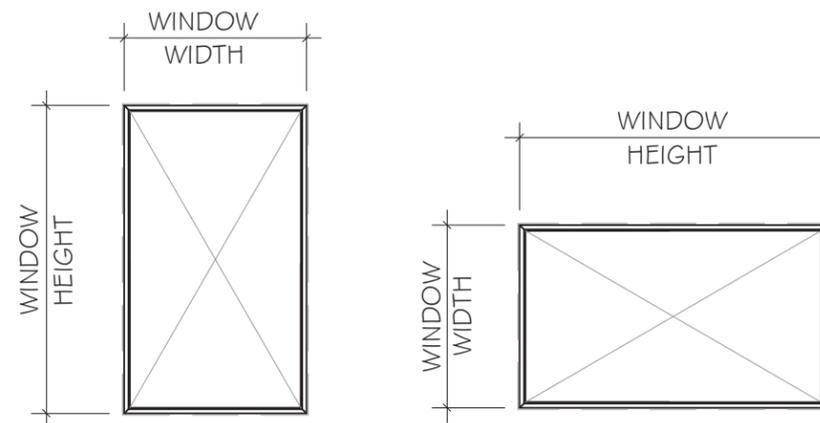
GLASS G1 CAPACITY CHART - PSF				
WINDOW WIDTH	WINDOW HEIGHT	DESIGN LOAD		
		+	-	
144	42	80.0	80.0	
132	48	80.0	80.0	
102	54	80.0	80.0	
108		80.0	80.0	
114		77.8	77.8	
120		74.4	74.4	
96	60	80.0	80.0	
102		80.0	80.0	
108		74.8	74.8	
54	66	80.0	80.0	
60		80.0	80.0	
66		73.0	73.0	
72		73.0	73.0	
78		73.0	73.0	
84		73.0	73.0	
90		73.0	73.0	
96		73.0	73.0	
54		72	80.0	80.0
60			80.0	80.0
66	73.0		73.0	
72	67.0		67.0	
78	67.0		67.0	
84	67.0		67.0	
90	67.0		67.0	
60	78		80.0	80.0
66			73.0	73.0
72			67.0	67.0
78		62.0	62.0	
42	84	80.0	80.0	
48		80.0	80.0	
54		80.0	80.0	
60		80.0	80.0	
66		73.0	73.0	
72		67.0	67.0	

GLASS G1 CAPACITY CHART - PSF				
WINDOW WIDTH	WINDOW HEIGHT	DESIGN LOAD		
		+	-	
42	90	80.0	80.0	
48		80.0	80.0	
54		80.0	80.0	
60		80.0	80.0	
66	96	73.0	73.0	
72		67.0	67.0	
42		102	80.0	80.0
48			80.0	80.0
54	80.0		80.0	
60	80.0		80.0	
66	108	73.0	73.0	
72		67.0	67.0	
78		67.0	67.0	
84		67.0	67.0	
42	120	80.0	80.0	
48		80.0	80.0	
54		74.4	74.4	
60		74.8	74.8	
66	126	80.0	80.0	
72		80.0	80.0	
78		80.0	80.0	
84		80.0	80.0	
42	132	80.0	80.0	
48		80.0	80.0	
54		80.0	80.0	
60		80.0	80.0	
66	138	80.0	80.0	
72		80.0	80.0	
78		80.0	80.0	
84		80.0	80.0	
42	144	80.0	80.0	
48		80.0	80.0	
54		80.0	80.0	
60		80.0	80.0	

NOTE:
D.L.O. HEIGHT = WINDOW HEIGHT - 3"
D.L.O. WIDTH = WINDOW WIDTH - 3"



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



NOTE:
WIDTH AND LENGTH DIMENSION CAN BE ORIENTED
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YIPING WANG
FLORIDA REGISTRATION
#55983
C.A.N. 28877
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
January 12th, 2026

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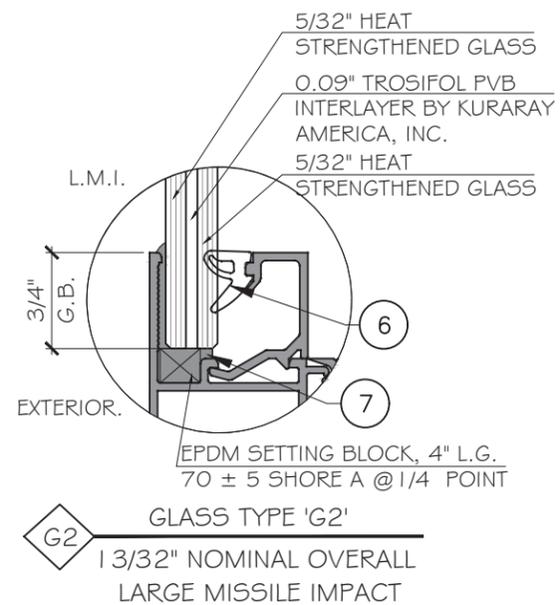
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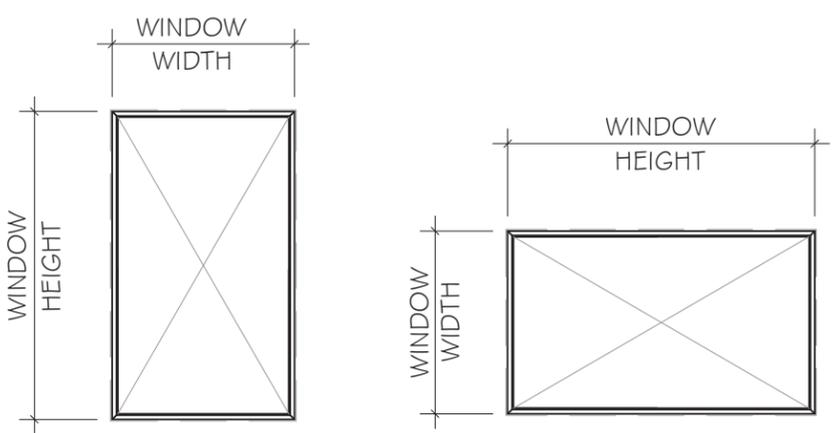
GLASS G2 CAPACITY CHART - PSF				
WINDOW WIDTH INCH	WINDOW HEIGHT INCH	DESIGN LOAD		
		+	-	
24	36	80.0	80.0	
30		80.0	80.0	
36		80.0	80.0	
42		80.0	80.0	
48		80.0	80.0	
54		80.0	80.0	
60		80.0	80.0	
66		80.0	80.0	
72		80.0	80.0	
78		80.0	80.0	
84		80.0	80.0	
90		80.0	80.0	
96		80.0	80.0	
102		80.0	80.0	
108	80.0	80.0		
114	80.0	80.0		
120	80.0	80.0		
24	40	80.0	80.0	
30		80.0	80.0	
36		80.0	80.0	
42		80.0	80.0	
48		80.0	80.0	
54		80.0	80.0	
60		80.0	80.0	
66		80.0	80.0	
72		80.0	80.0	
78		80.0	80.0	
84		80.0	80.0	
90		80.0	80.0	
96		80.0	80.0	
102		80.0	80.0	
108	80.0	80.0		
24	48	80.0	80.0	
30		80.0	80.0	
36		80.0	80.0	
42		76.0	76.0	
48		67.0	67.0	
54		67.0	67.0	
60		67.0	67.0	
66		67.0	67.0	
72		67.0	67.0	
78		67.0	67.0	
84		67.0	67.0	
90		67.0	67.0	
24		54	80.0	80.0
30			80.0	80.0
36	80.0		80.0	
42	76.0		76.0	
48	67.0		67.0	
54	59.0		59.0	
60	59.0		59.0	
66	59.0		59.0	
72	59.0		59.0	
78	59.0		59.0	
24	60		80.0	80.0
30			80.0	80.0
36			80.0	80.0
42			76.0	76.0
48		67.0	67.0	
54		59.0	59.0	
60		53.0	53.0	
66		53.0	53.0	
72		53.0	53.0	

GLASS G2 CAPACITY CHART - PSF			
WINDOW WIDTH INCH	WINDOW HEIGHT INCH	DESIGN LOAD	
		+	-
24	66	80.0	80.0
30		80.0	80.0
36		80.0	80.0
42		76.0	76.0
48	72	67.0	67.0
54		59.0	59.0
60		53.0	53.0
24		80.0	80.0
30	78	80.0	80.0
36		80.0	80.0
42		76.0	76.0
48		67.0	67.0
54	84	59.0	59.0
60		53.0	53.0
24		80.0	80.0
30		80.0	80.0
36	90	80.0	80.0
42		76.0	76.0
48		67.0	67.0
24		80.0	80.0
30	96	80.0	80.0
36		80.0	80.0
42		76.0	76.0
24		80.0	80.0
30	102	80.0	80.0
36		80.0	80.0
42		76.0	76.0
24		80.0	80.0
30	108	80.0	80.0
36		80.0	80.0
40		80.0	80.0
24		80.0	80.0
30	114	80.0	80.0
36		80.0	80.0
24		80.0	80.0
30		80.0	80.0
36	120	80.0	80.0
30		80.0	80.0
36		80.0	80.0
24		80.0	80.0
30	126	80.0	80.0
30		80.0	80.0
24		80.0	80.0
30		80.0	80.0
24	132	80.0	80.0
30		80.0	80.0
24		80.0	80.0
30		80.0	80.0
24	138	80.0	80.0
30		80.0	80.0
24		80.0	80.0
30		80.0	80.0
24	144	80.0	80.0
30		80.0	80.0

NOTE:
D.L.O. HEIGHT = WINDOW HEIGHT - 3"
D.L.O. WIDTH = WINDOW WIDTH - 3"



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



NOTE:
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TYPICAL ANCHOR TYPES:

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 WITH 1 1/2" MIN. PENETRATION. (HEAD/JAMB/SILL)
 OR THRU 1BY/2BY WOOD BUCKS INTO CONCRETE
 WITH 1 3/4" MIN. PENETRATION. (HEAD/JAMB/SILL)
 OR THRU 1BY/2BY WOOD BUCKS INTO CONCRETE BLOCK
 WITH 1 3/4" MIN. PENETRATION. (JAMB ONLY)

ANCHOR TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 DIRECTLY INTO CONCRETE W/ 1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL)

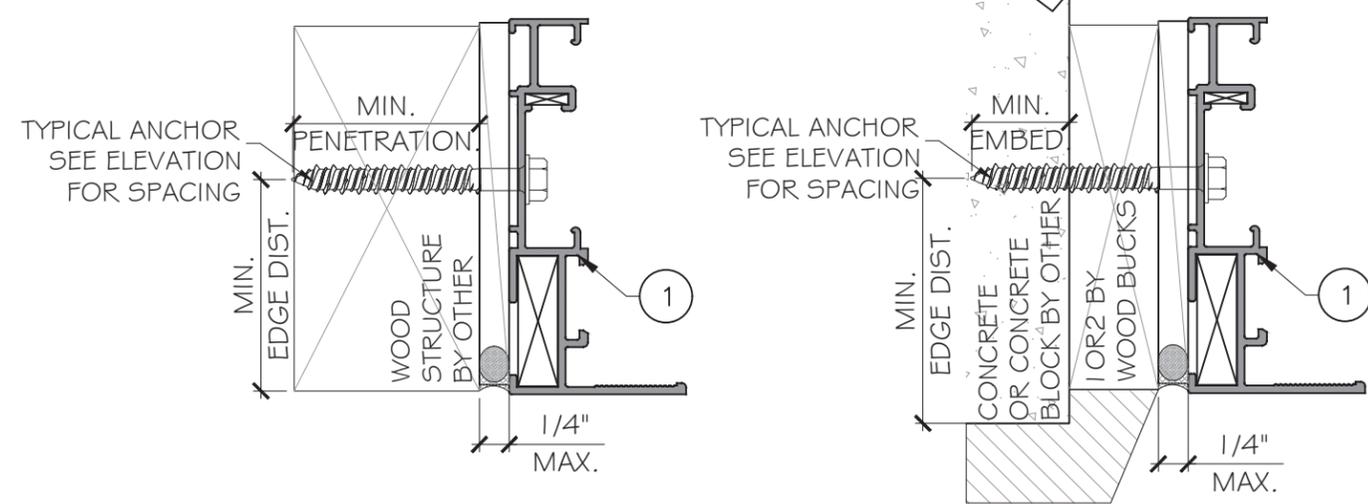
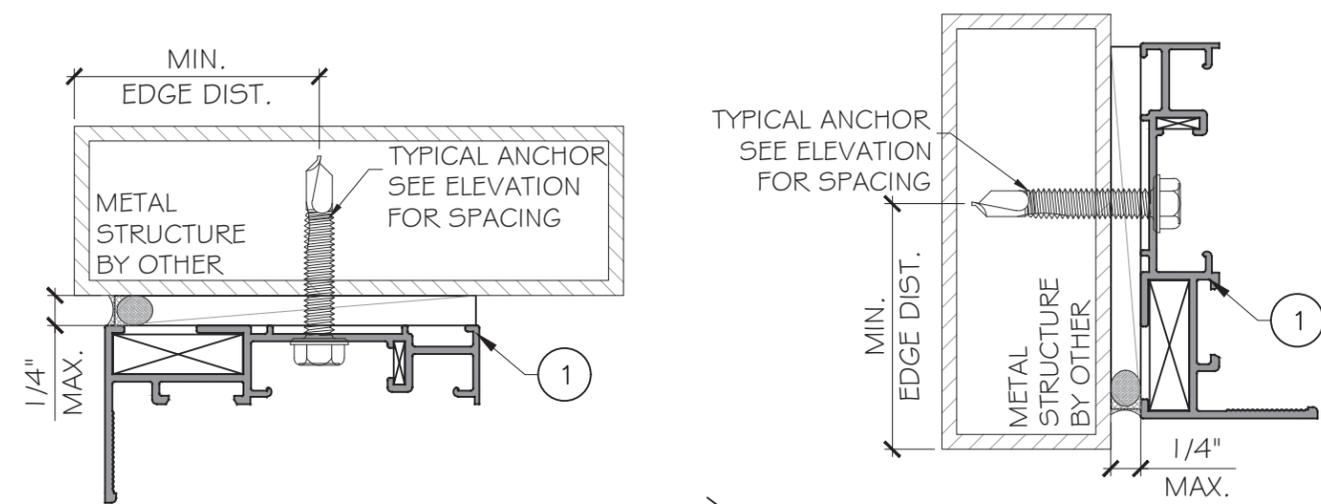
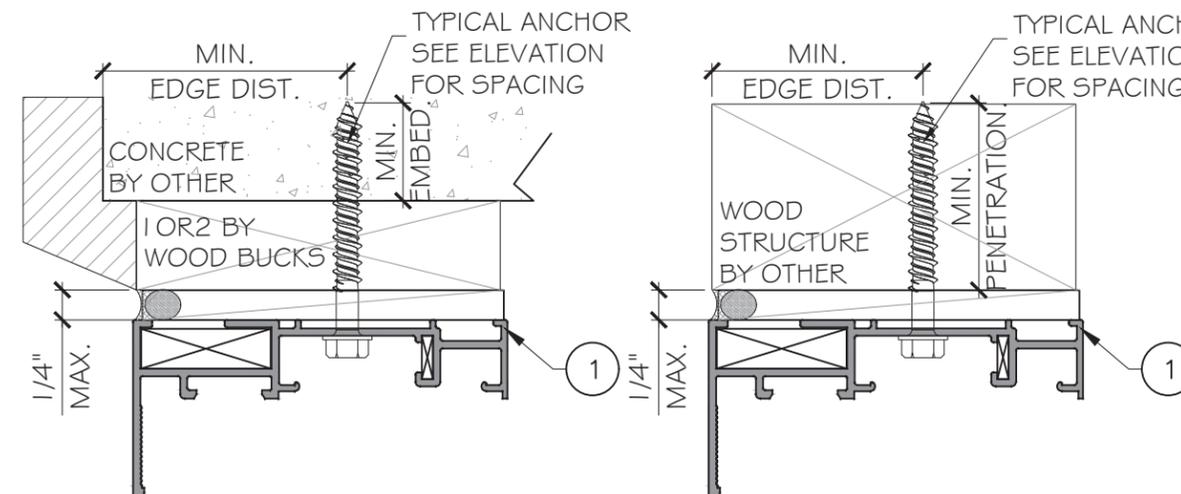
ANCHOR TYPE 'C' - 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 DIRECTLY INTO GROUT FILLED BLOCK W/ 2 1/4" MIN. EMBEDMENT. (JAMB ONLY)

ANCHOR TYPE 'D' - 1/4" DIA. SELF-DRILLING SCREWS, GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)
 INTO F.B.C. APPROVED ALUMINUM MULLIONS OR METAL STRUCTURES. (HEAD/JAMB/SILL)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

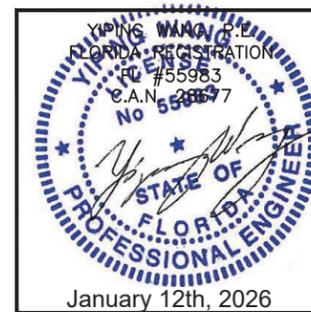
TYPICAL EDGE DISTANCE
 INTO CONCRETE OR MASONRY= 2 1/2" MIN.
 INTO WOOD = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

SUBSTRATE
 WOOD AT HEAD/JAMB/SILL: $SG=0.55$ MIN.
 CONCRETE AT JAMB/HEAD/SILL: $f'_c=3050$ psi MIN.
 C-90 GROUT FILLED BLOCK AT JAMB: $f'_m=2$ ksi.
 ALUMINUM AT JAMB/HEAD/SILL: 1/8" THK. MIN. (G063-T5, MIN)
 STEEL AT JAMB/HEAD/SILL: 1/8" THK. MIN. ($F_y=36$ KSI MIN)

NOTE:
 METAL STRUCTURES OR WOOD STRUCTURES BY
 OTHERS TO BE DESIGNED AND ANCHORED PROPERLY
 TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING
 SYSTEM AND TO TRANSFER SUCH LOADS TO THE
 BUILDING MAIN STRUCTURE.



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 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027 P: 305.588.5224
 www.MCYEngineering.com mcy@mcyengineering.com

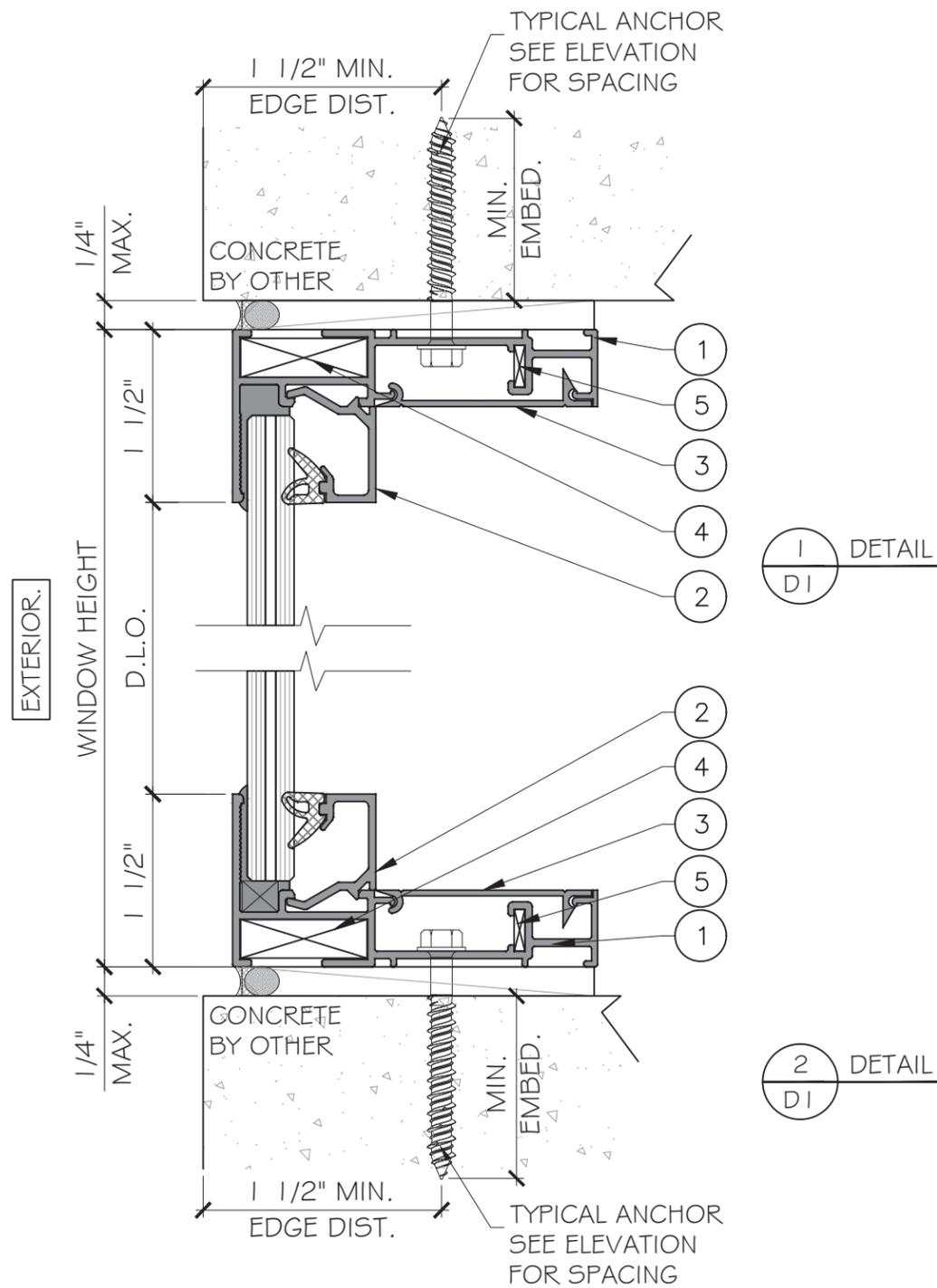
PICTURE WINDOW SYSTEM LARGE MISSILE IMPACT
UNI-K Fenestration
 KM 8.5 VIA DURAN TAMBO
 GUAYAS, ECUADOR
<https://www.unik-windows.com>

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FLORIDA REGISTRATION
FC #55983
C.A.N. 28837
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
January 12th, 2026

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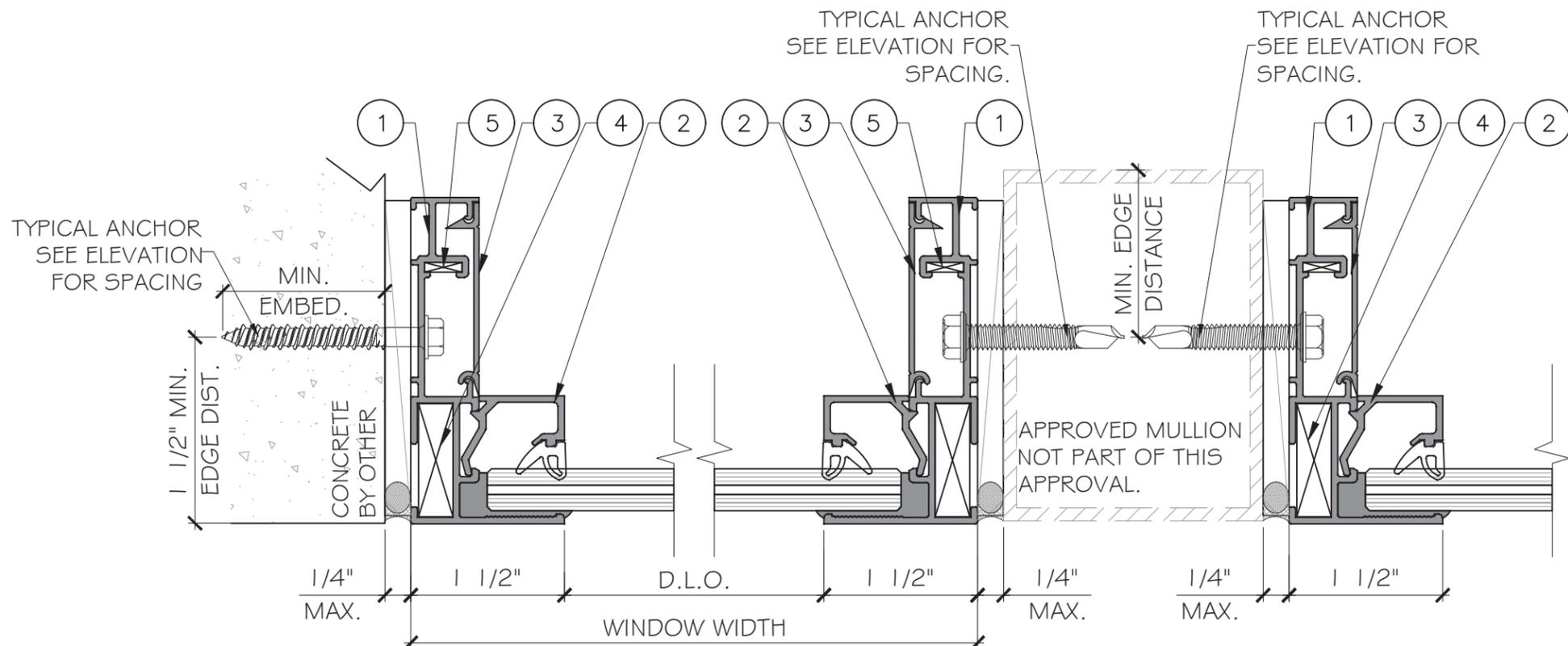
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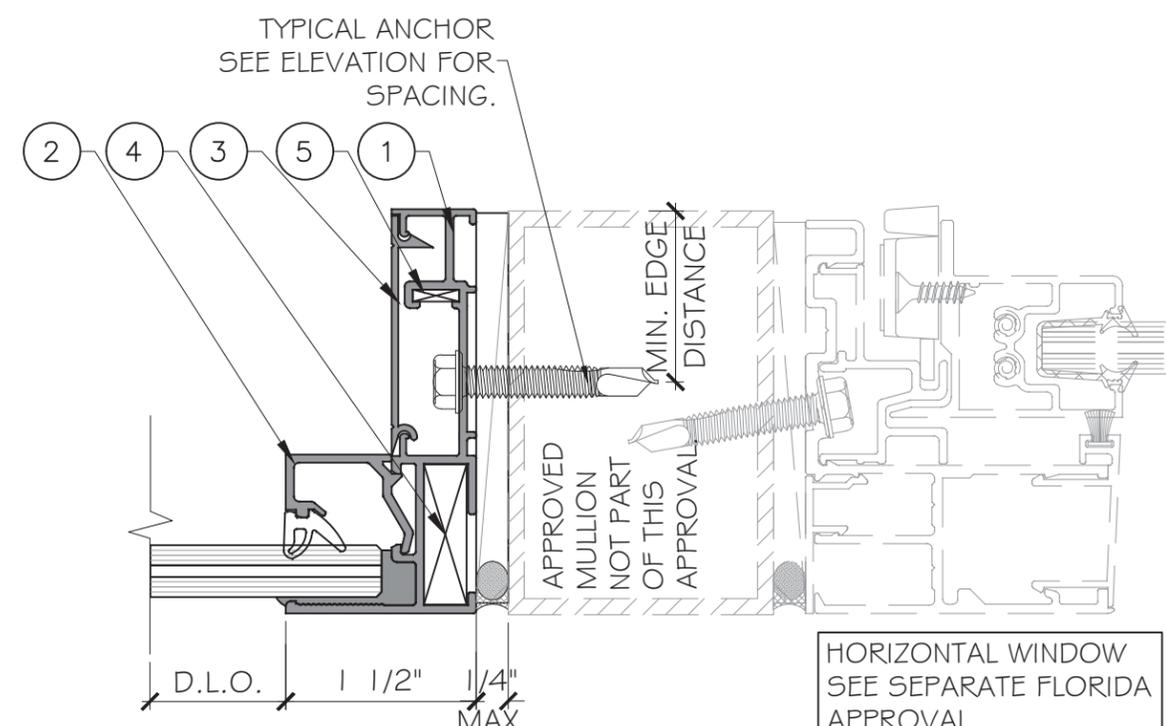
DRAWING NO. AD25-55

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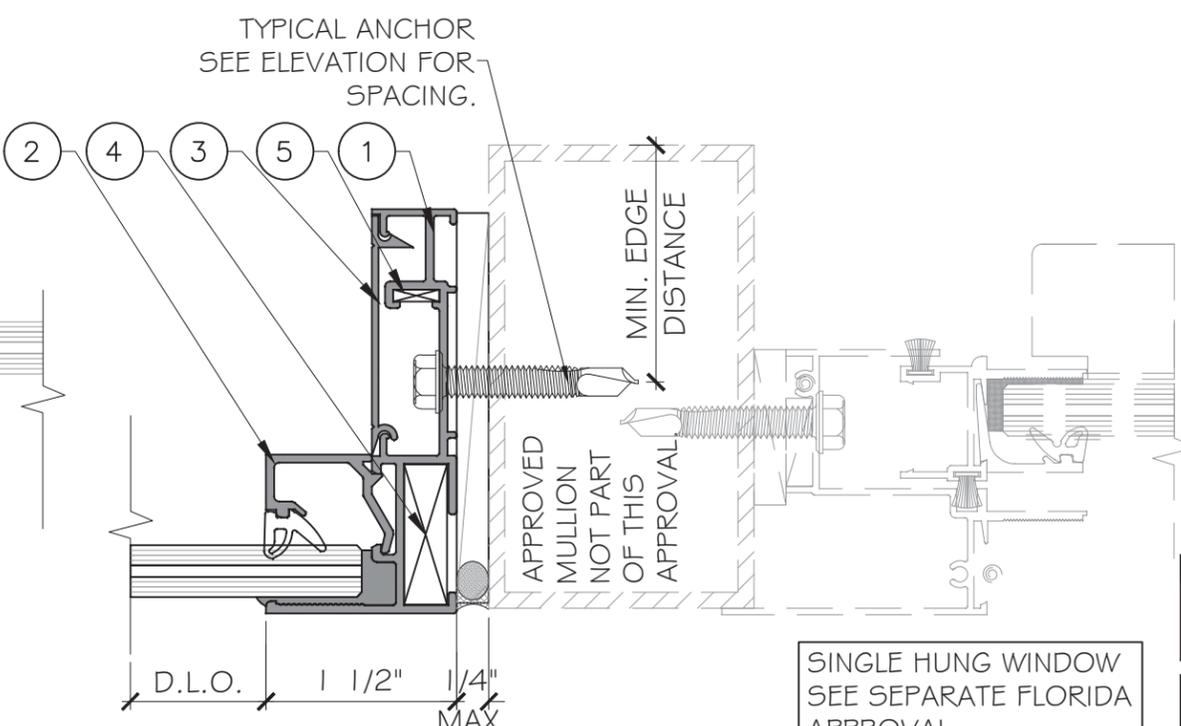


1
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DETAIL



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DETAIL

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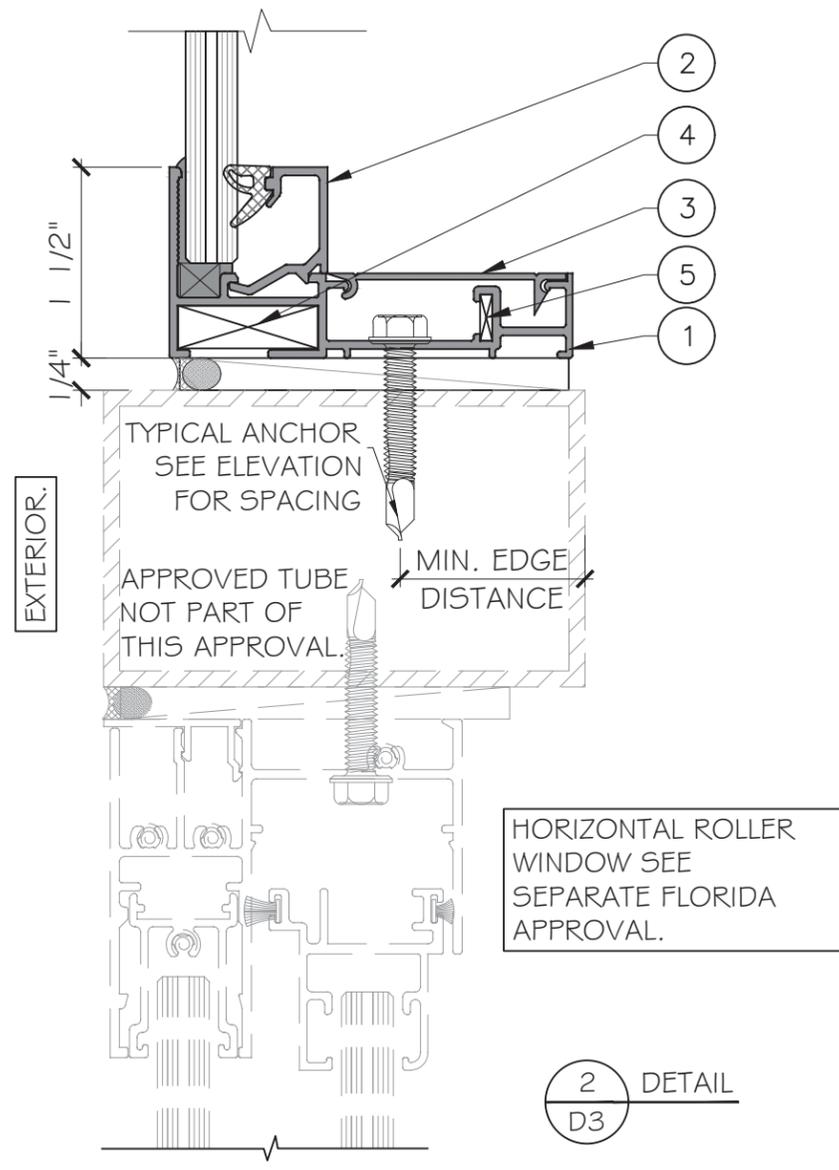
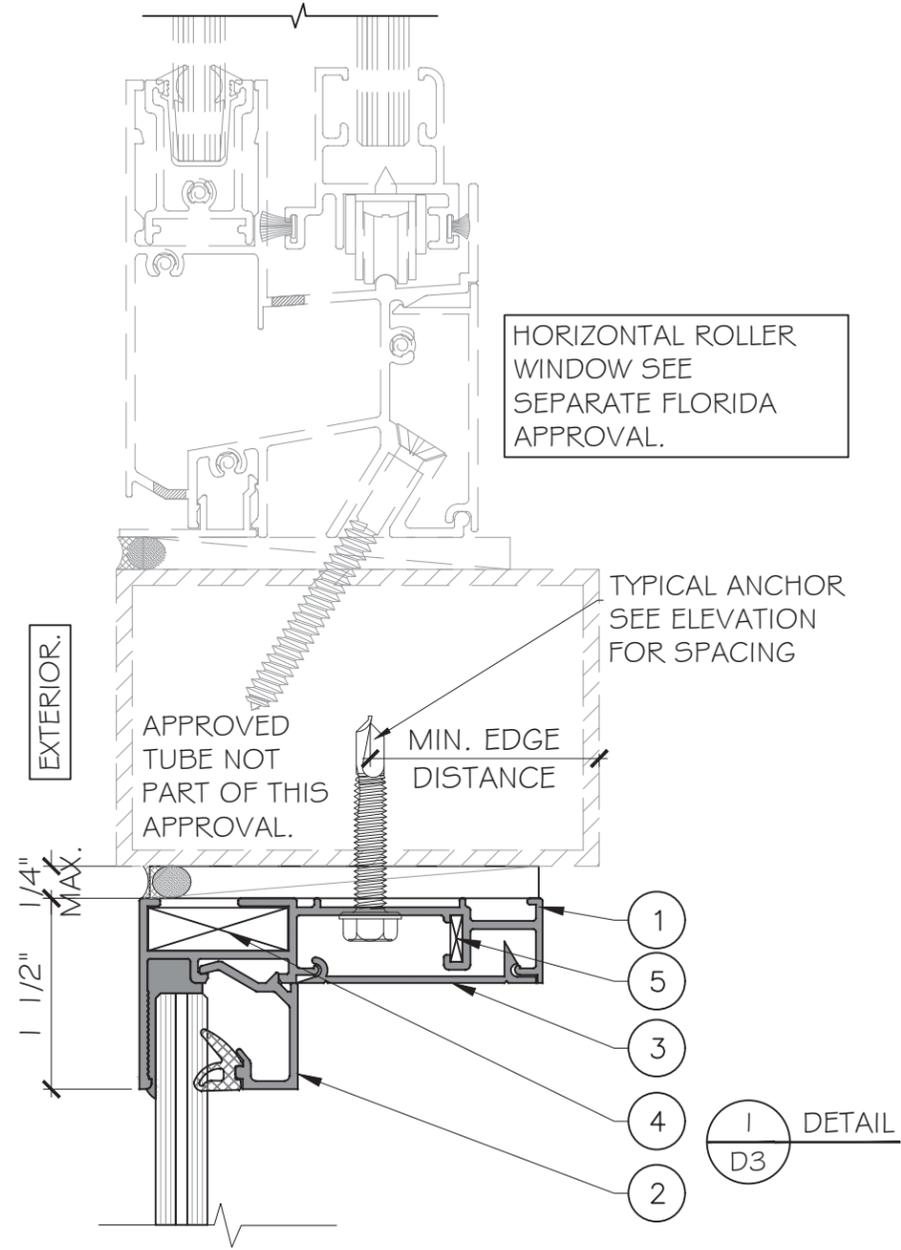
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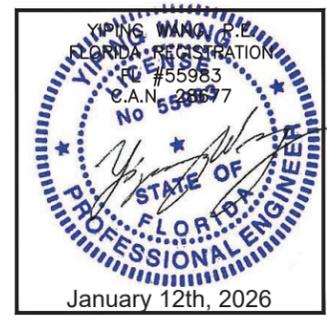
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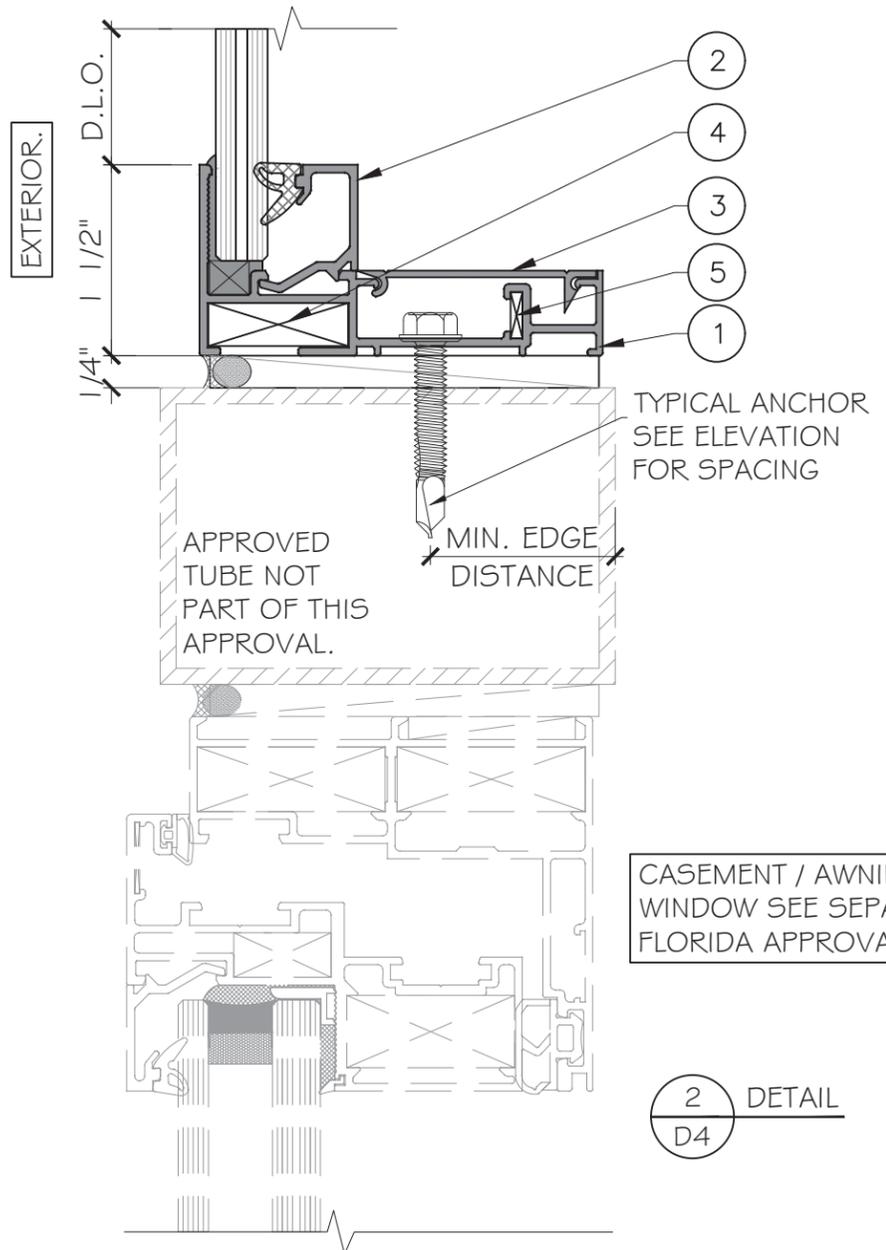
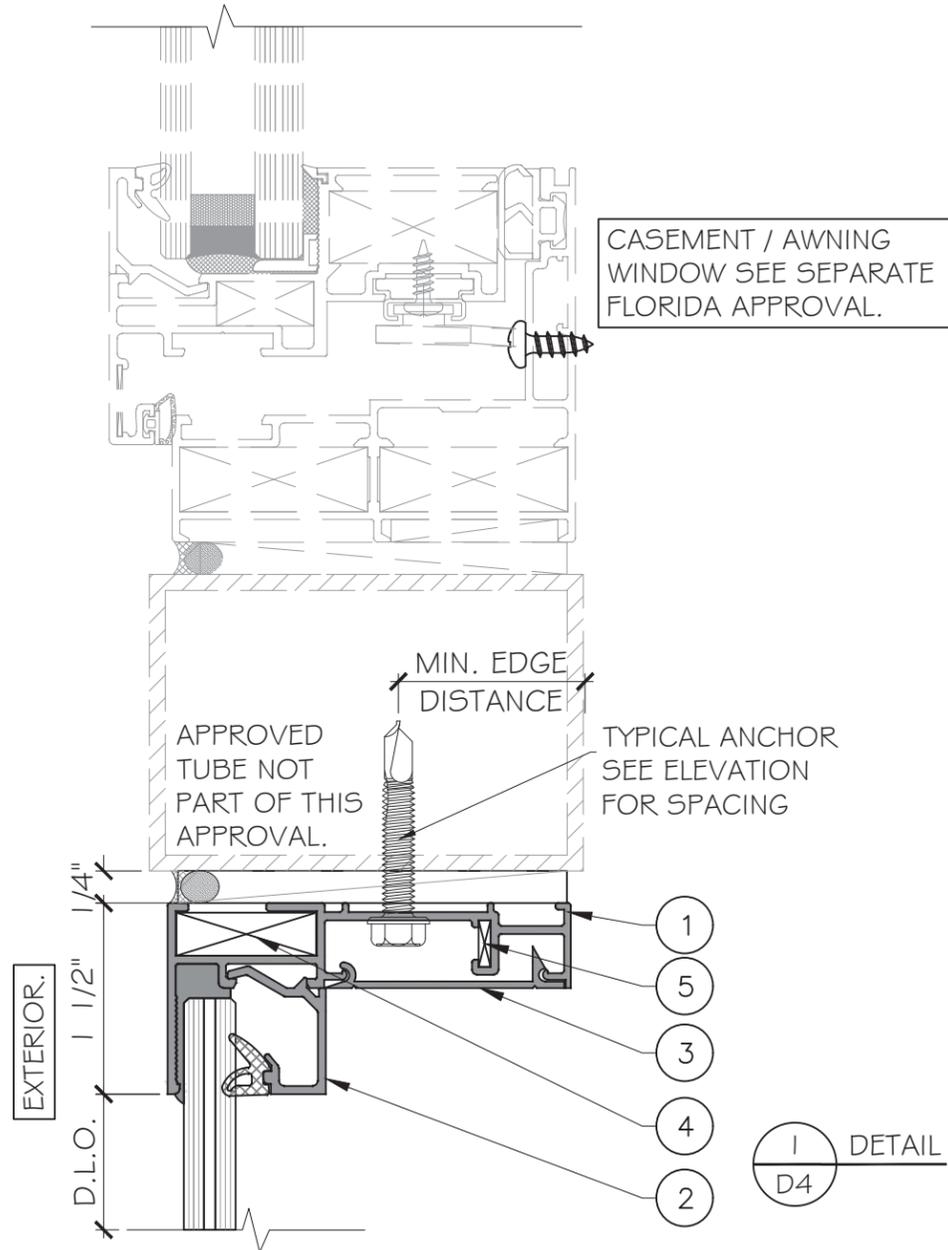


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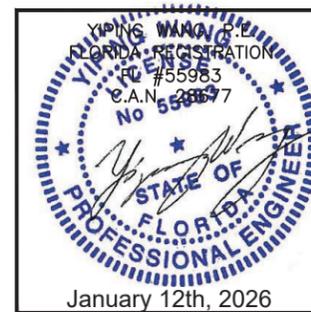
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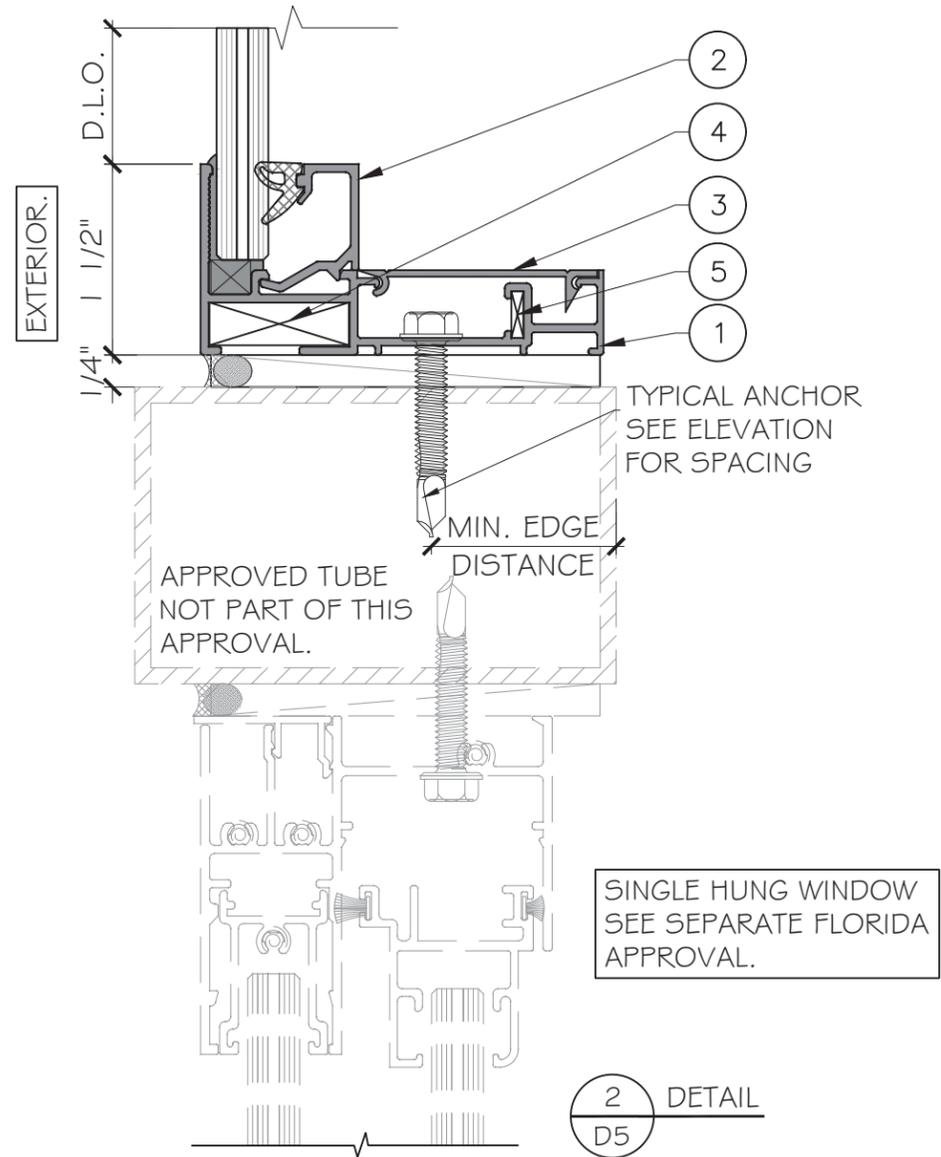
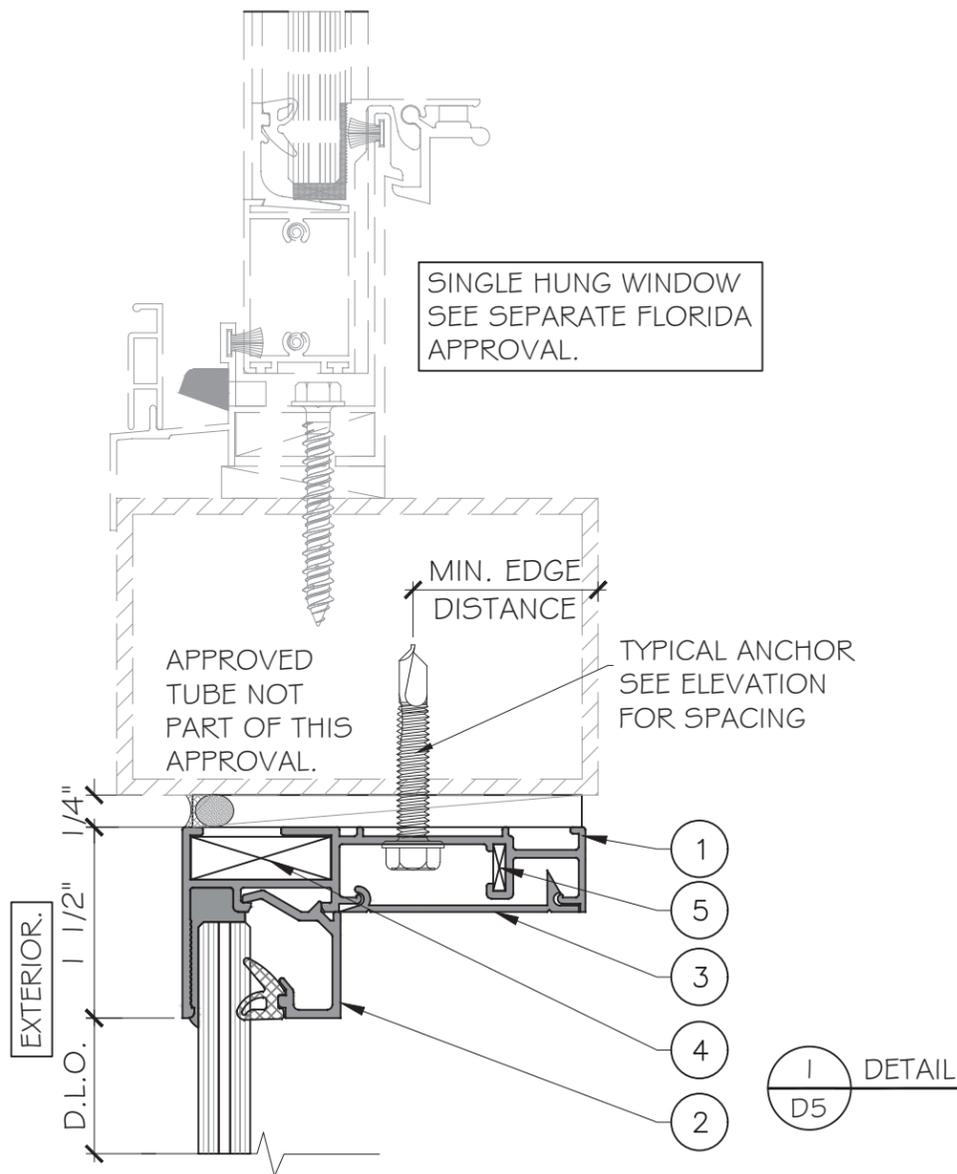
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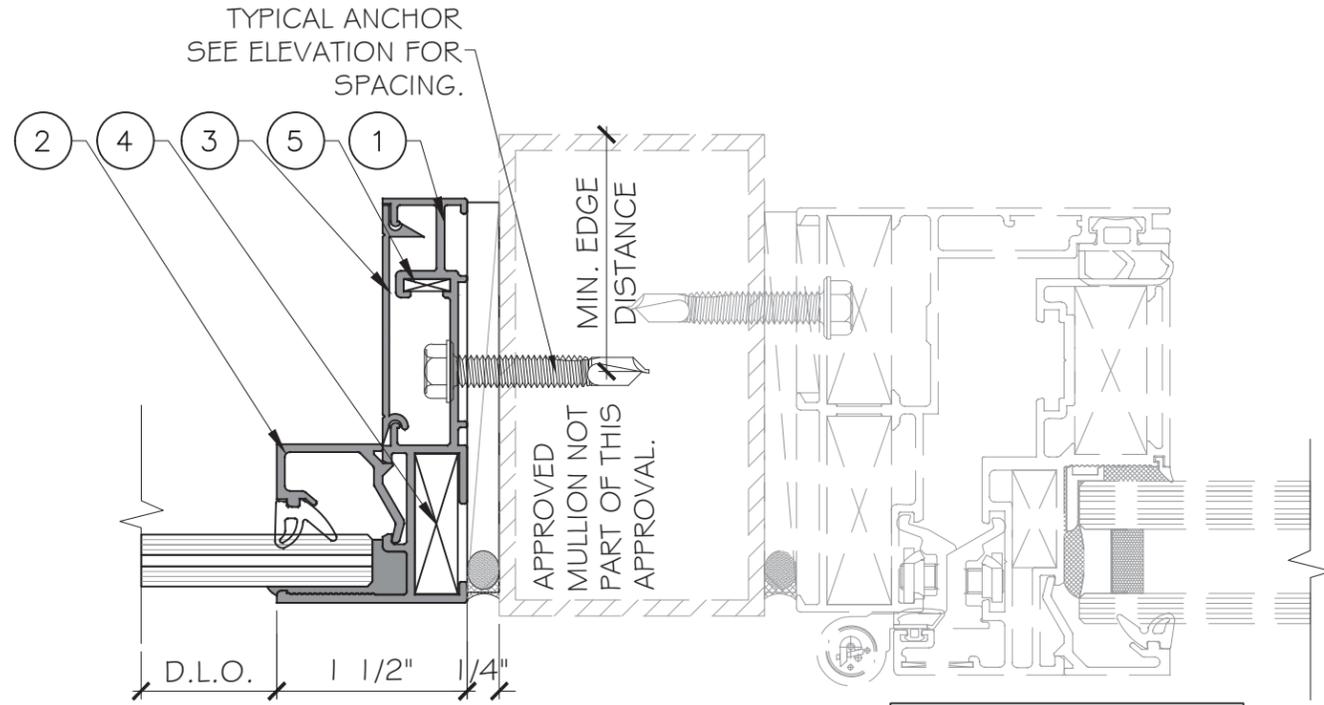
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EXTERIOR.

CASEMENT / AWNING
WINDOW SEE SEPARATE
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I
D6
DETAIL

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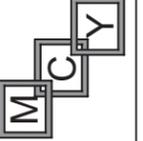
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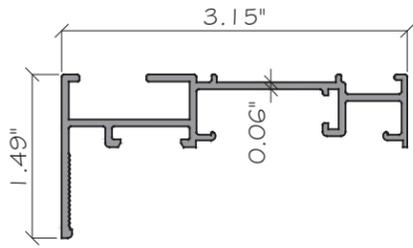
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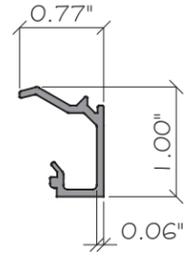
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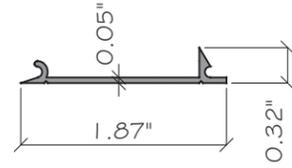
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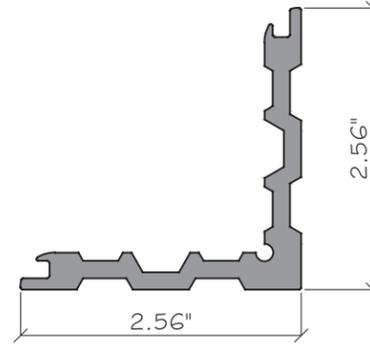
① FRAME 5215
ALUM. 6063-T5



② GLAZING BEAD 6253
ALUM. 6063-T5



③ FRAME COVER 1407
ALUM. 6063-T5



④ CORNER KEY
AC-ESCR-27.65X8.5
ALUM. 6063-T5



⑤ CORNER KEY
AC-ESAL-ESP
ZAMAC AND
STAINLESS STEEL

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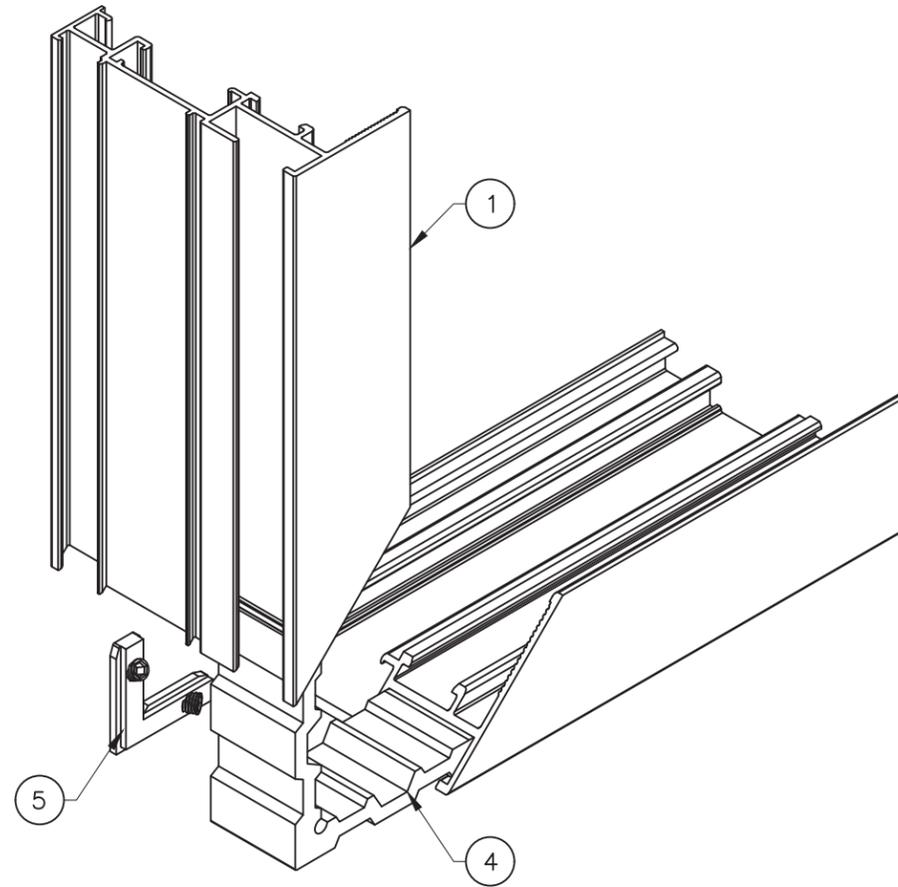
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13 OF 14

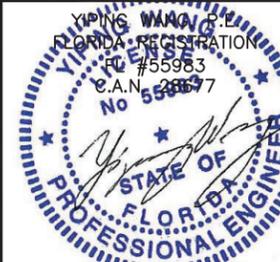
BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	FRAME 5215	ALUMINUM 6063-T5	FISA
2	GLAZING BEAD 6253	ALUMINUM 6063-T5	FISA
3	FRAME COVER 1407	ALUMINUM 6063-T5	FISA
4	CORNER KEY, AC-ESCR-27.65X8.5	ALUMINUM 6063-T5	FISA
5	CORNER KEY, AC-ESAL-ESP	ZAMAC AND STAINLESS STEEL	IDH
6	GLASS GASKET. AC-E-022-8	EPDM 70+/-5 DURO A	PRICAL
7	STRUCTURAL SEALANT SIKA SG-20	SILICONE	SIKA
	STRUCTURAL SEALANT SIKA SG-500 (AS OPTIONS)	SILICONE	SIKA
	STRUCTURAL SEALANT DOW CORNING 983 (AS OPTIONS)	SILICONE	DOWSIL
	STRUCTURAL SEALANT DOW CORNING 995 (AS OPTIONS)	SILICONE	DOWSIL
8	WEATHER SEALANT DS791.	SILICONE	DOWSIL



FRAME CORNER ASSEMBLY

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