

UNI-K FENESTRATION SINGLE HUNG WINDOW SMALL MISSILE IMPACT

GENERAL NOTES:

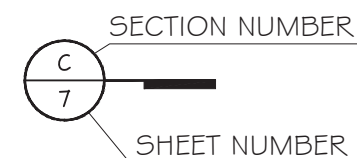
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR INSTALLATION ABOVE 30FT OF GRADE. IMPACT SHUTTERS ARE 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 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.
- 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.
- 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.

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 E I FOR APPROVED TYPICAL ELEVATION & CAPACITY.
- STEP 3: ANCHOR TYPE SEE SHEET A I . ANCHOR SPACING SEE SHEET E I .
- 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

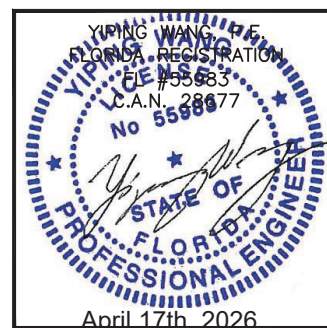


LIMITATIONS OF USE

- 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:

FL48151.1



SINGLE HUNG WINDOW - SMALL MISSILE IMPACT

UNI-K Fenestration

3.5 VIA DURAN TAMBO
GUAYAS, ECUADOR

<https://www.unik-windows.com>

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.588.5224

www.MCYEngineering.com mcy@mcengineering.com

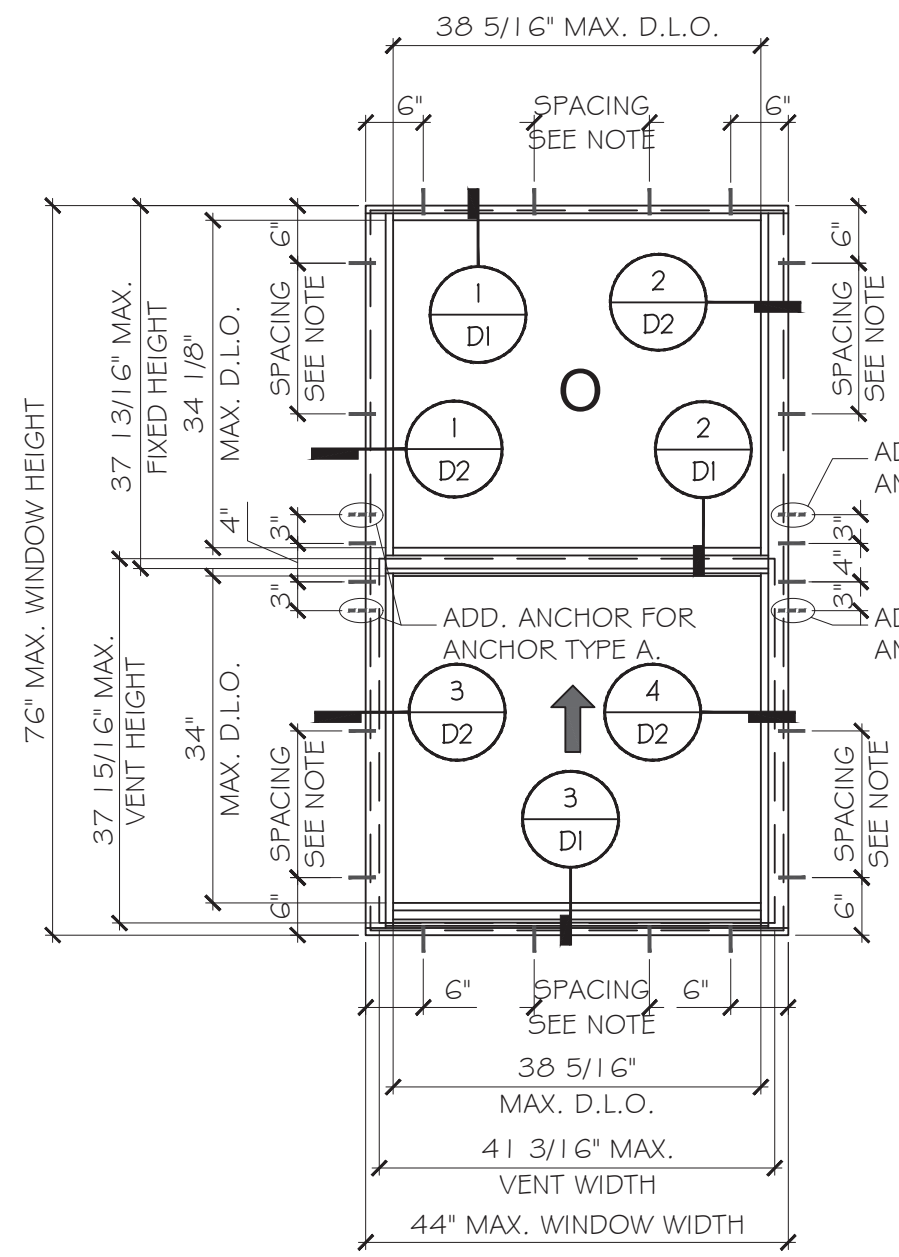
01	04.02.2026	James	NEW APPLICATION
Rev. No.	Date	Drawn By	Description

Drawn Date	Scale
04.02.2026	AS SHOWN

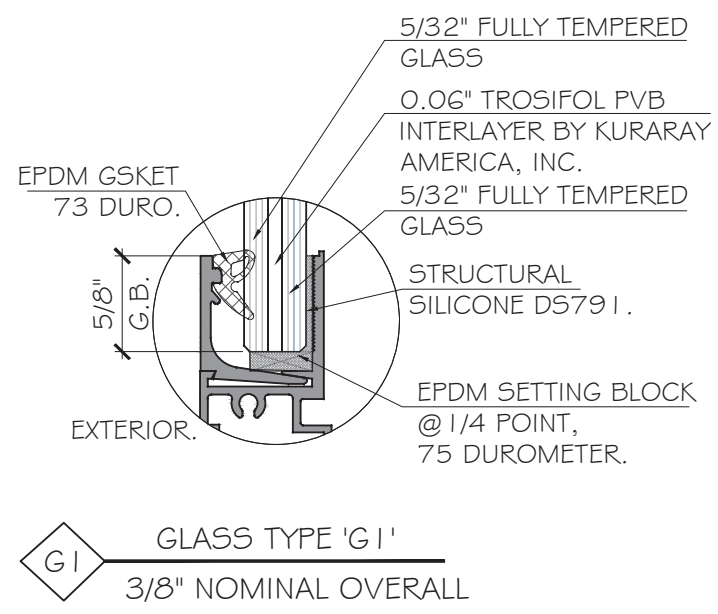
DRAWING NO.
AD26-12

COVER

Sheet No.
1 OF 8



NOTE FOR ANCHOR SPACING:
10" MAX. O.C. FOR ANCHOR TYPE B/C.
6" MAX. O.C. FOR ANCHOR TYPE A.



NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS).

TYPICAL EXTERIOR ELEVATIONS

MAX. DESIGN LOAD: ± 120 PSF
MAX. WATER PRESSURE: 16.5 PSF
SEE SHEET A1 FOR ANCHOR OPTIONS

FLORIDA APPROVAL:
FL48151.1

YIPING WANG
PROFESSIONAL ENGINEER
FLORIDA REGISTRATION
E.C.E. #55883
C.A.N. #28677
No 55883

April 17th, 2026

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

UNI-K Fenestration
KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR
https://www.unik-windows.com

Rev. No.	Date	Drawn By	Description
01	04.02.2026	James	NEW APPLICATION

Drawn Date: 04.02.2026
Scale: AS SHOWN

DRAWING NO.
AD26-12

E1

Sheet No.
2 OF 8

TYPICAL ANCHOR TYPES:

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

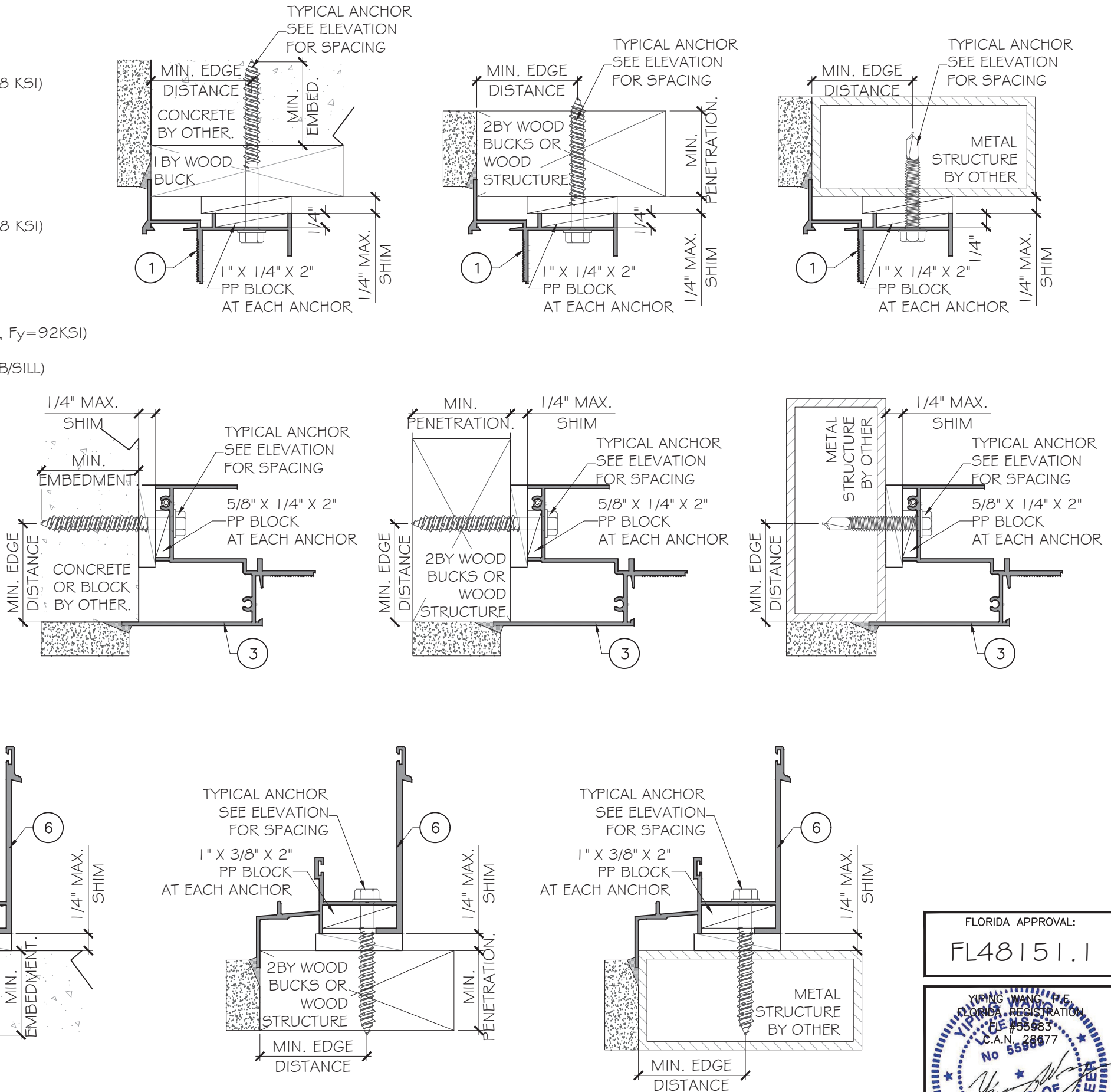
ANCHOR TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$) DIRECTLY INTO CONCRETE W/1 3/4" MIN. EMBEDMENT. (HEAD/JAMB/SILL) OR DIRECTLY INTO GROUT FILLED BLOCK W/1 3/4" MIN. EMBEDMENT. (JAMB ONLY)

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

TYPICAL EDGE DISTANCE INTO CONCRETE = 1 1/4" MIN.
INTO WOOD = 1 1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE
WOOD : $SG = 0.55 \text{ MIN.}$
CONCRETE : $f'_c = 3000 \text{ PSI MIN.}$
C-90 GROUT FILLED BLOCK: $f_m = 2 \text{ KSI.}$
ALUMINUM : 1/8" THK. MIN. (6063-T5, MIN)
STEEL : 1/8" THK. MIN. ($F_y = 36 \text{ KSI MIN}$)

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.



FLORIDA APPROVAL:
FL48151.1

YIPING WANG
PROFESSIONAL ENGINEER
FL #55983
C.A.N. 28677

April 17th, 2026

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

M C Y

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

SINGLE HUNG WINDOW - SMALL MISSILE IMPACT

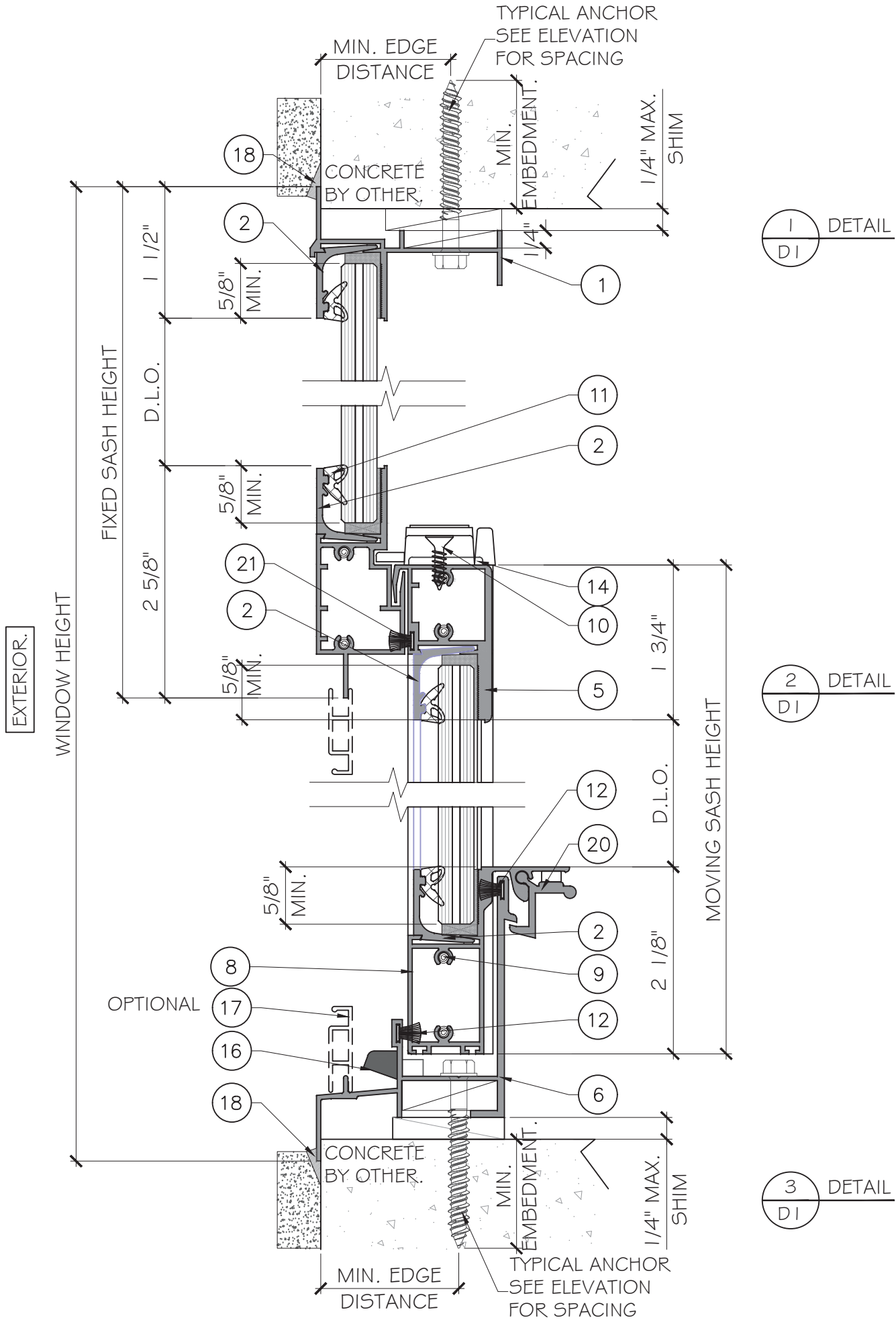
UNI-K Fenestration
KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR
<https://www.unik-windows.com>

Rev.	Date	Drawn By	Description
01	04.02.2026	James	NEW APPLICATION

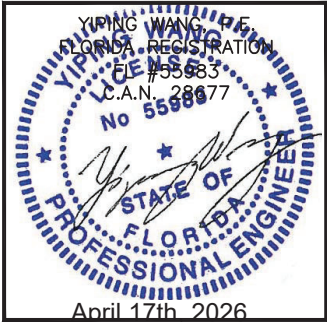
Drawn Date: 04.02.2026
Scale: AS SHOWN

DRAWING NO.
AD26-12

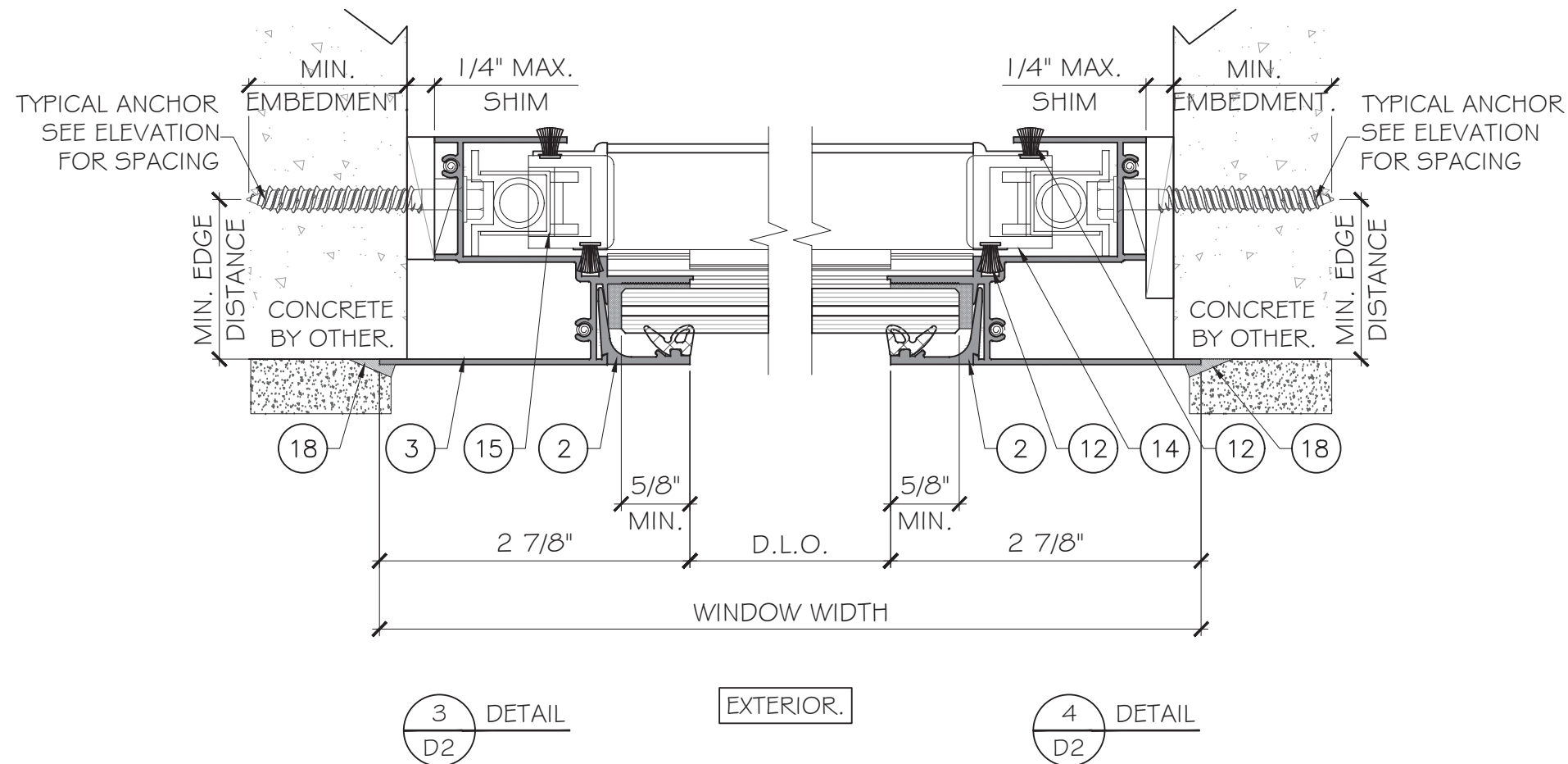
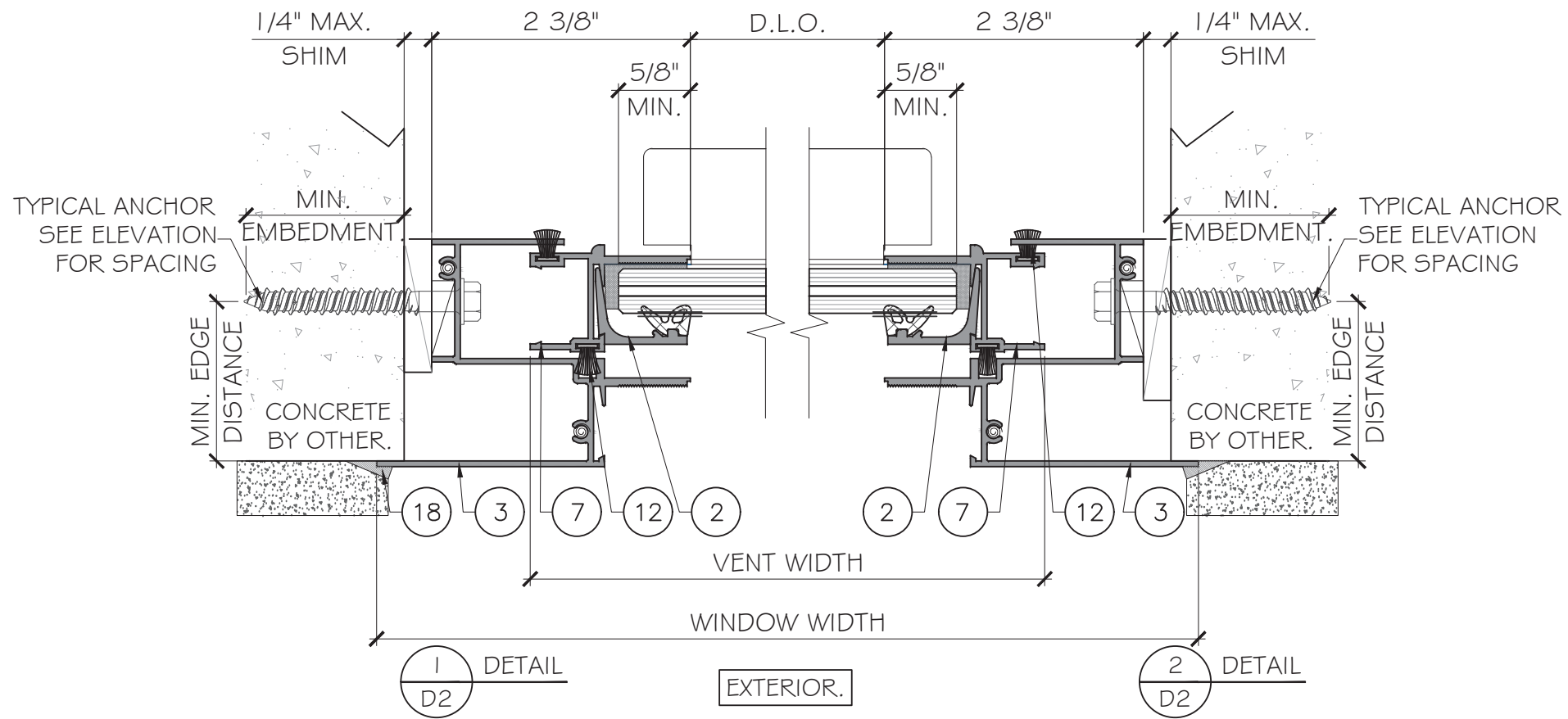
Sheet No.
3 OF 8



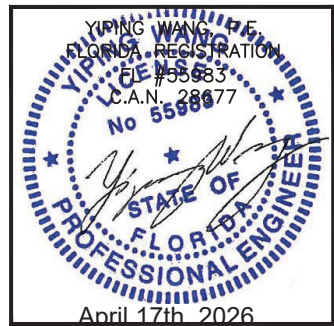
FLORIDA APPROVAL:
FL48151.1



SINGLE HUNG WINDOW - SMALL MISSILE IMPACT		MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.588.5224 www.MCYEngineering.com mcy@mcyengineering.com	
UNI-K Fenestration KM 8.5 VIA DURAN TAMBO GUAYAS, ECUADOR https://www.unik-windows.com		M C Y	
Drawn Date 04.02.2026	Scale AS SHOWN	NEW APPLICATION	Drawn By James
Rev. No. 01	Date 04.02.2026	Description	
AD26-12		D I	
4 OF 8		Sheet No.	



FLORIDA APPROVAL:
FL48151.1



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

SINGLE HUNG WINDOW - SMALL MISSILE IMPACT

UNI-K Fenestration

KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR
https://www.unik-windows.com

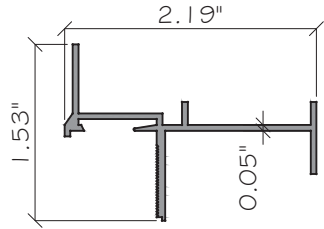
Rev. No.	Date	Drawn By	Description
01	04.02.2026	James	NEW APPLICATION

Drawn Date: 04.02.2026
Scale: AS SHOWN

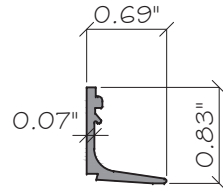
DRAWING NO.
AD26-12

D2

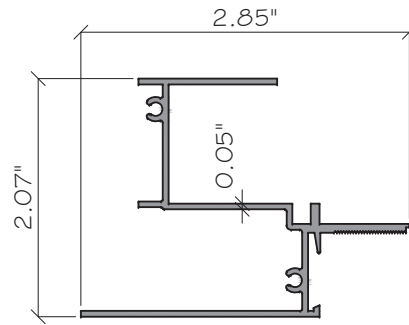
Sheet No.
5 OF 8



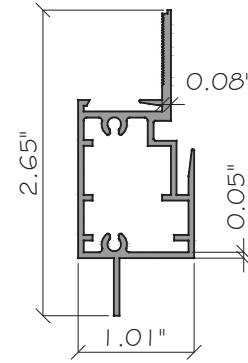
① FLANGE FRAME HEAD
DC1132
ALUMINUM. 6063-T5



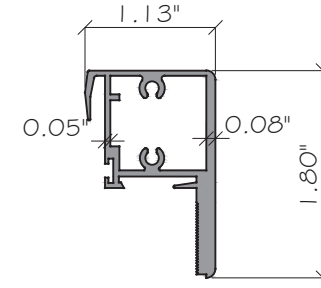
② LAMINATED BEAD
F1-2919
ALUMINUM. 6063-T5



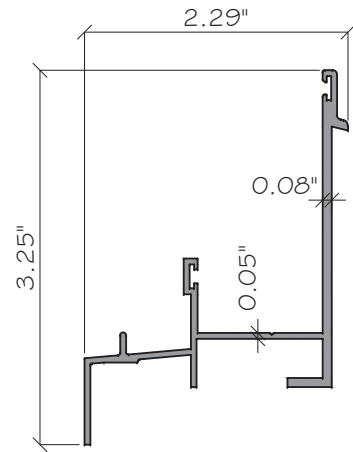
③ FLANGE FRAME JAMB
DC1133
ALUMINUM. 6063-T5



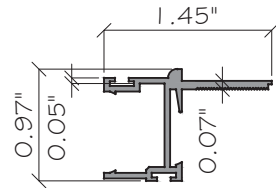
④ FIXED MEETING RAIL
F1-2752
ALUMINUM. 6063-T5



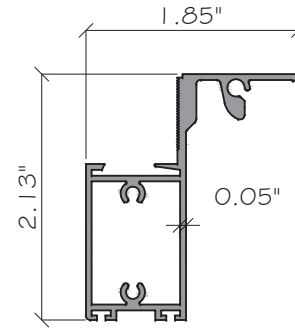
⑤ SASH TOP RAIL DC1130
ALUMINUM. 6063-T5



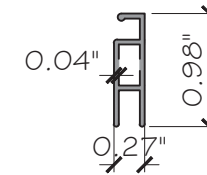
⑥ FLANGE FRAME SILL HI-RISE
DC1134
ALUMINUM. 6063-T5



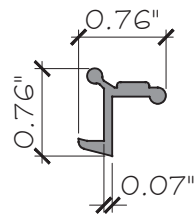
⑦ SASH SIDE RAIL DC1131
ALUMINUM. 6063-T5



⑧ SASH BOTTOM RAIL HI-RISE
DCX1135
ALUMINUM. 6063-T5

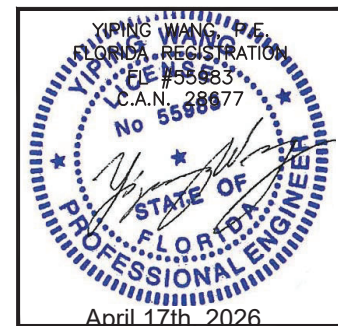


⑪ WINDOW SCREEN
ALUMINUM. 6063-T5



⑫ LOCK EXTRUSION
ALUMINUM. 6063-T5

FLORIDA APPROVAL:
FL48151.1



SINGLE HUNG WINDOW - SMALL MISSILE IMPACT

UNI-K Fenestration

KM 8.5 VIA DURAN TAMBO
GUAYAS, ECUADOR

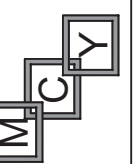
<https://www.unik-windows.com>

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305.588.5224

www.MCYEngineering.com mcy@mcyengineering.com



Rev. No.	Date	Drawn By	Description
01	04.02.2026	James	NEW APPLICATION

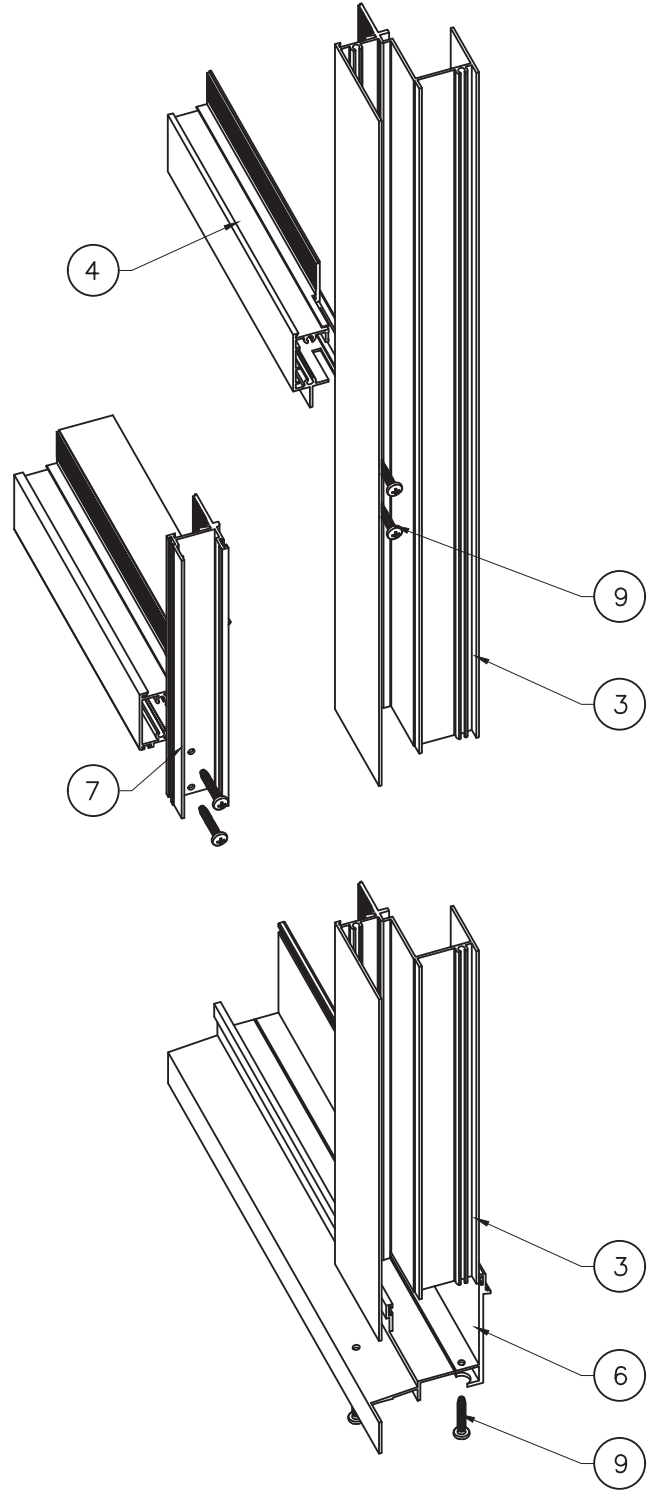
Drawn Date
04.02.2026

Scale
AS SHOWN

DRAWING NO.
AD26-12

PART

Sheet No.
6 OF 8



FRAME CORNER ASSEMBLY

FLORIDA APPROVAL:
FL48151.1

YIPING WANG
FLORIDA REGISTRATION
FL #55883
C.A.N. 28677
No 55883

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

April 17th, 2026

Drawn Date		Scale	
04.02.2026		AS SHOWN	
Drawing No.		Description	
01		NEW APPLICATION	
Rev. No.		Date	
01		04.02.2026	
Drawn By		James	

SINGLE HUNG WINDOW - SMALL MISSILE IMPACT

UNI-K Fenestration

KM 8.5 VIA DURAN TAMBO

GUAYAS, ECUADOR

<https://www.unik-windows.com>

M

C

Y

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