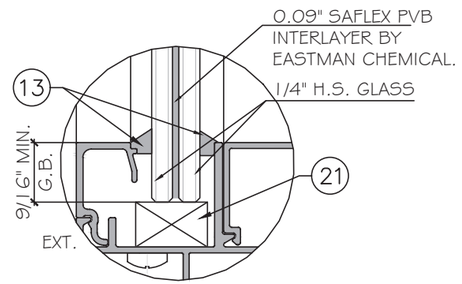
# ELITE DOORS AND WINDOWS INC.
# YY86 ALUMINUM SINGLE HUNG WINDOW
# LARGE MISSILE IMPACT




GLASS TYPE 'G1'
9/16" NOMINAL OVERALL

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

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.

- 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 8TH EDITION OF FLORIDA BUILDING CODE 2023 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.

- 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.

- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

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.

STEP 3: ANCHOR OPTION SEE SHEET A1&A2. ANCHOR LAYOUT SEE SHEET E1&E2.

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.

**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 A 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:
FL47435

*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

C / 7 — SECTION NUMBER / SHEET NUMBER

YIPING WANG P.E.
FLORIDA REGISTRATION
LICENSE #55983
C.A.No. 28877
STATE OF FLORIDA
PROFESSIONAL ENGINEER
April 11th, 2025


MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com


YY86 ALUMINUM SINGLE HUNG WINDOW - LMI


ELITE DOORS AND WINDOWS, INC.
4780 CORONA AVENUE, VERNON, CALIFORNIA 90058
TEL.310 487 3334
EMAIL: Gino@elitedoorswindows.com

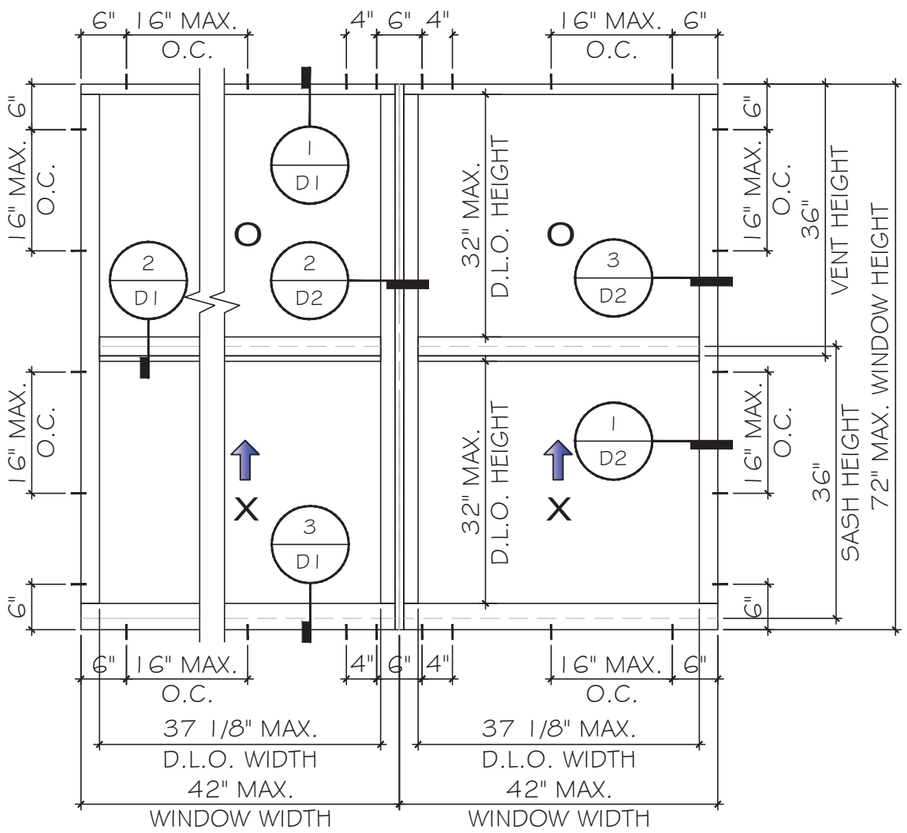

| Rev. No. | Date | Drawn By | Description |
|---|---|---|---|
| R0 | 04.07.2025 | JAMES | NEW APPLICATION |

Drawn Date 04.07.2025 | SCALE AS SHOWN

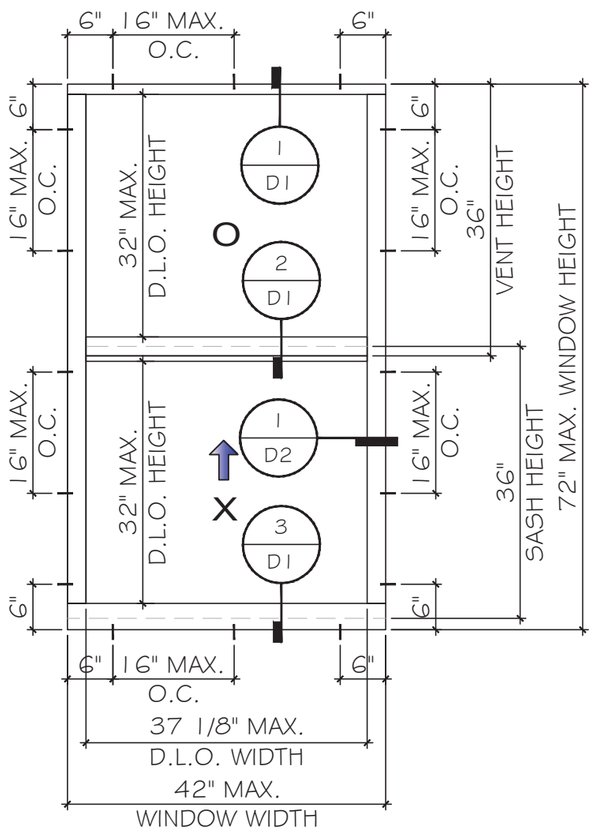
DRAWING NO.
AD25-15

COVER

Sheet No.
1 OF 13




TYPICAL EXTERIOR ELEVATION
FLUSH FRAME

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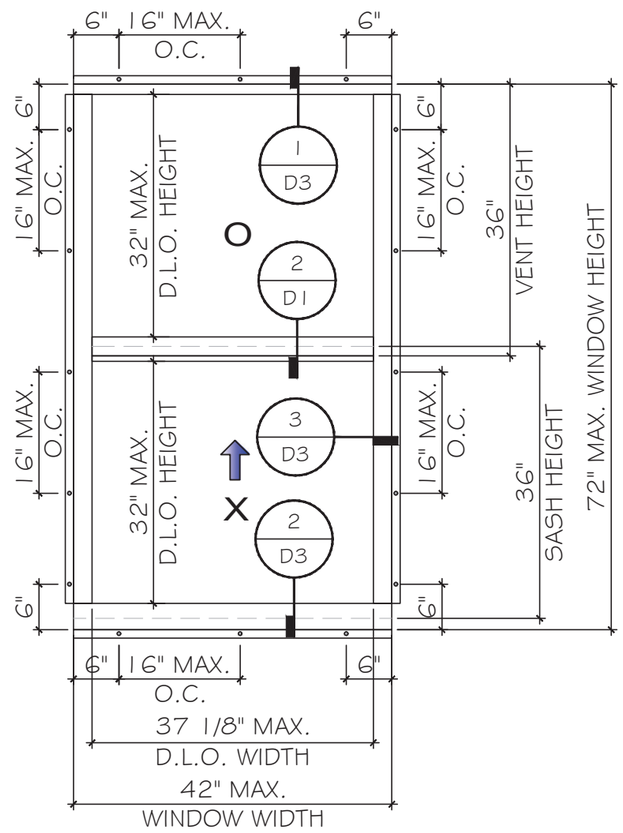


TYPICAL EXTERIOR ELEVATION
FIN FRAME

| ALLOWABLE DESIGN LOAD |
|---|
| FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC |
| +75 PSF<br>-75 PSF |

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C.A.N. 5088077

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E1

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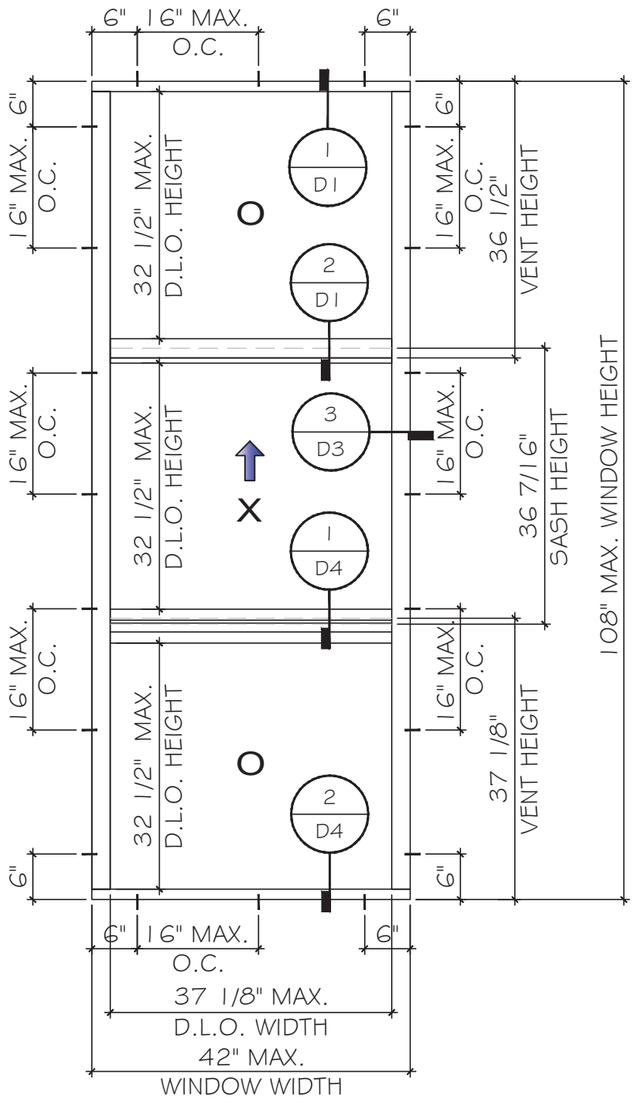
2 OF 13

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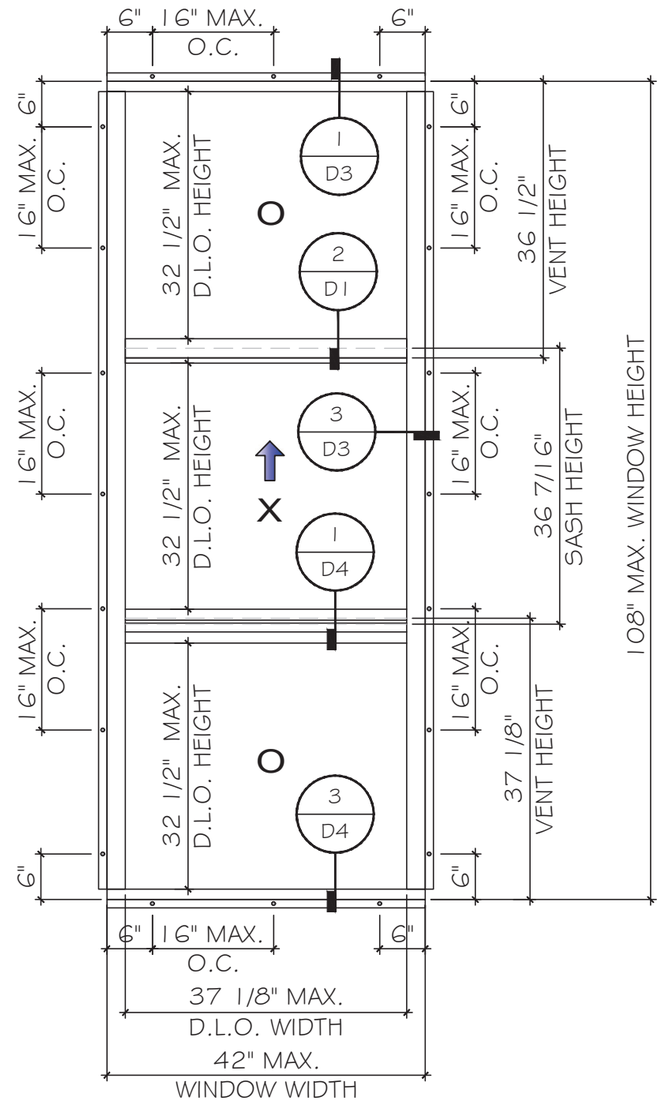
FLUSH FRAME




TYPICAL EXTERIOR ELEVATION
FIN FRAME

| ALLOWABLE DESIGN LOAD |
|---|
| FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC |
| +60 PSF<br>-75 PSF |

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YIMING WANG LICENSE No 55983

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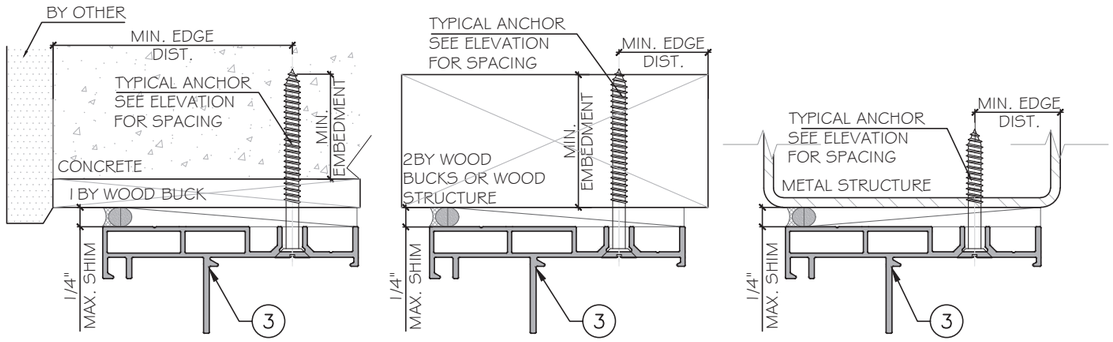
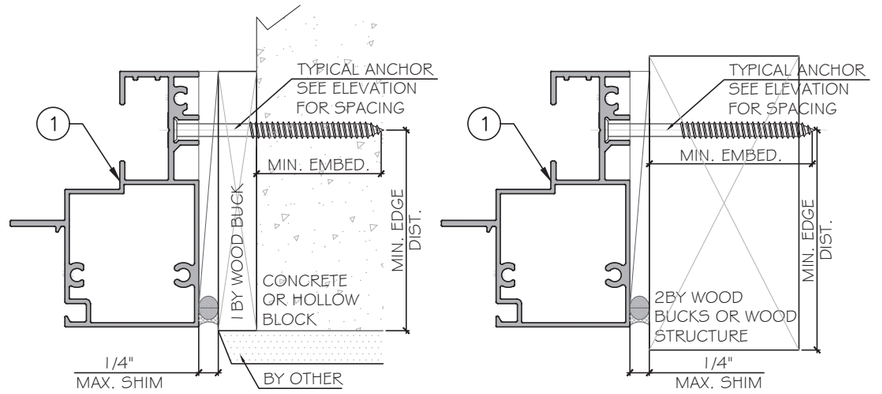
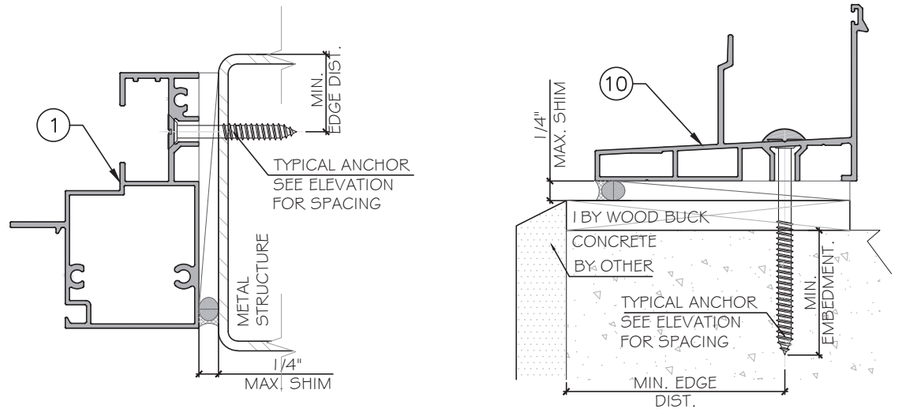
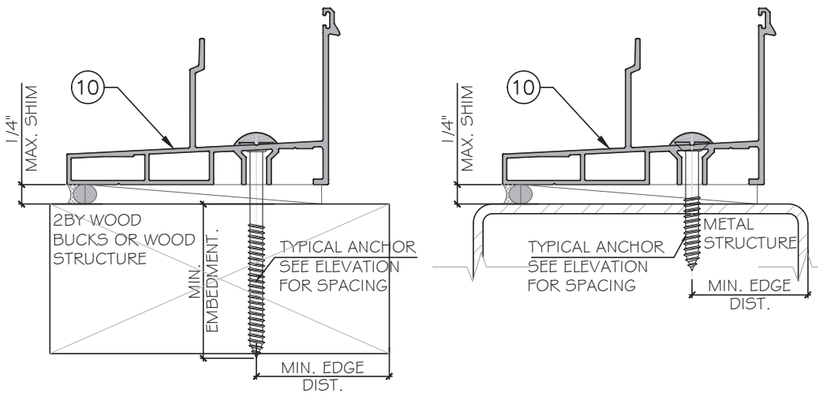
E2

Sheet No.
3 OF 13




ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION INTO WOOD (HEAD/ SILL/ JAMB)

OR THRU 1BY WOOD BUCK INTO CONCRETE OR BLOCKS
WITH 1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMB)
WITH 1 3/4" MIN. EMBED INTO HOLLOW OR GROUT FILLED BLOCKS (JAMBS ONLY)

DIRECTLY INTO CONCRETE OR BLOCKS
1 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMB)
1 3/4" MIN. EMBED INTO HOLLOW OR GROUT FILLED BLOCKS (JAMBS ONLY)

TYPE 'B' -- 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS) (HEAD/JAMB/SILL)
INTO FBC APPROVED MULLIONS OR METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE.

TYPICAL EDGE DISTANCE
INTO CONCRETE OR BLOCKS = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
INTO WOOD STRUCTURE = 1".

SUBSTRATE
WOOD SG=0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMB f'c=3 ksi MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMB f'm=2 ksi MIN.
ALUMINUM: 1/8" MIN. THK. (6063-T5, MIN.)
STEEL: 16GA THK. MIN. ASTM A653 GRADE 33 (Fy=33 ksi) MIN.
STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED.

NOTE:
METAL/ WOOD STRUCTURE BY OTHERS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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FL47435

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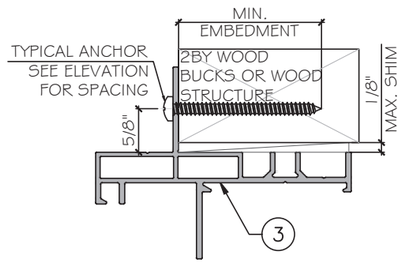
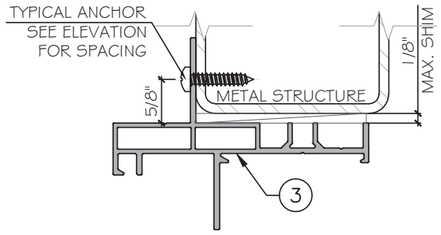
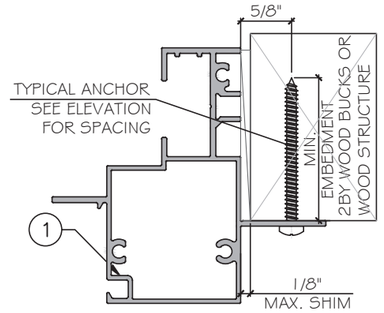
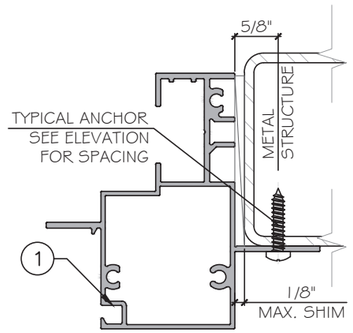
A1
Sheet No. 4 OF 13

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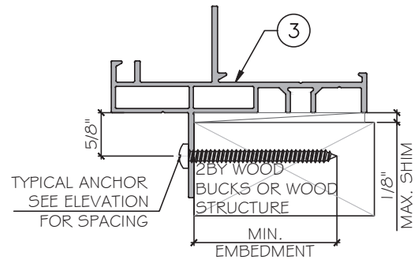


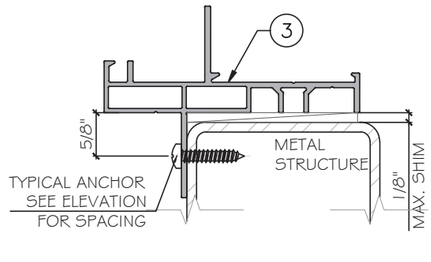


SUBSTRATE
WOOD SG=0.55 MIN.
ALUMINUM: 1/8" MIN. THK. (6063-T5, MIN.)
STEEL: 16GA THK. MIN. ASTM A653 GRADE 33 (Fy=33 ksi) MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED.)

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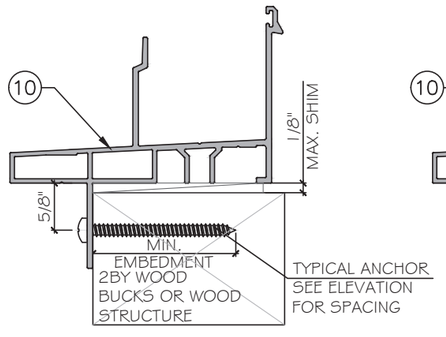


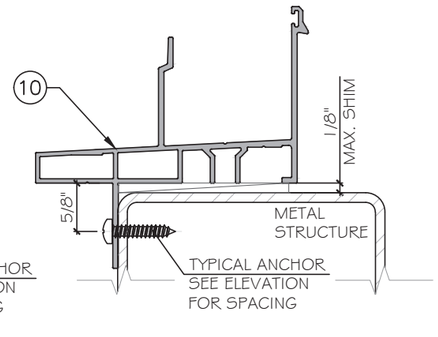


FLORIDA APPROVAL:
FL47435

YUNG WANG, P.E.
FLORIDA REGISTRATION
P.E. #55983
C.A.N. 5888
STATE OF FLORIDA PROFESSIONAL ENGINEER
April 11th, 2025

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| JAMES | 04.07.2025 |

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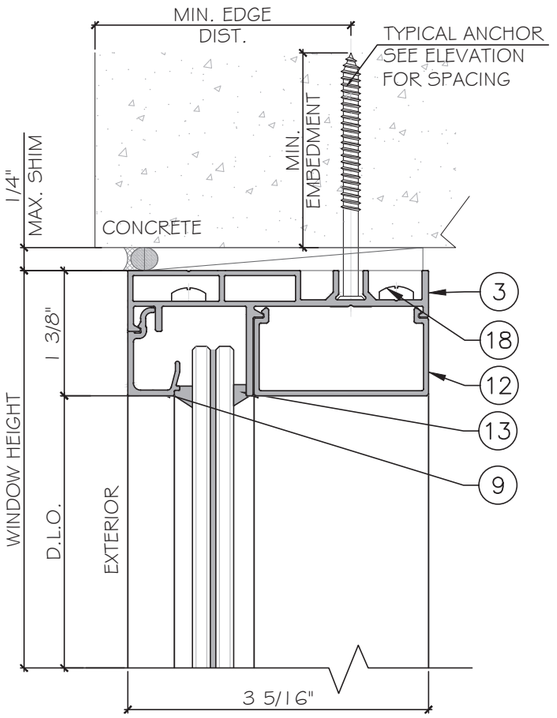
A2

Sheet No.
5 OF 13

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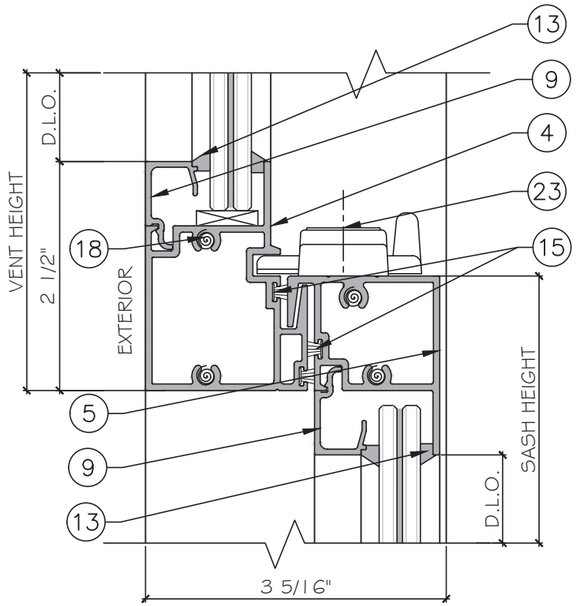
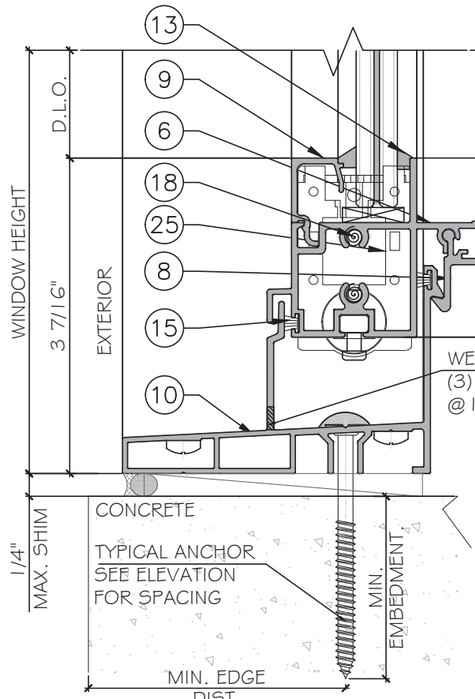



2 / D1 DETAIL




3 / D1 DETAIL

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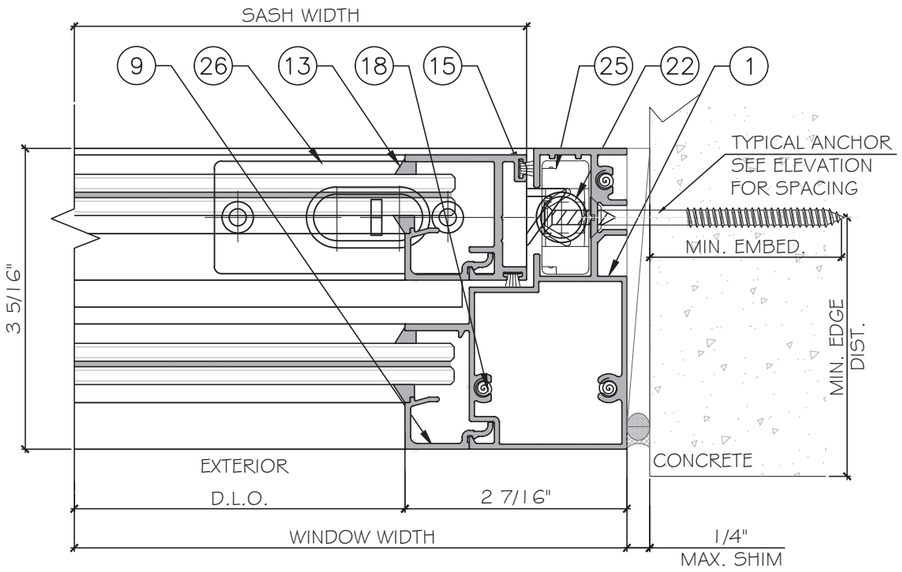
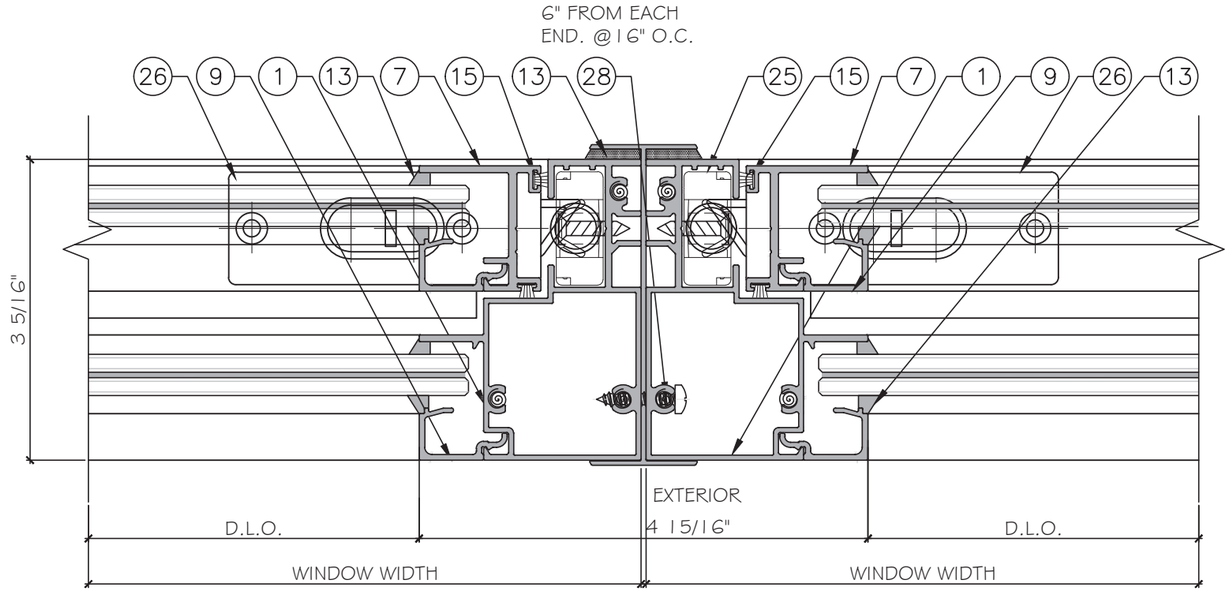
D1

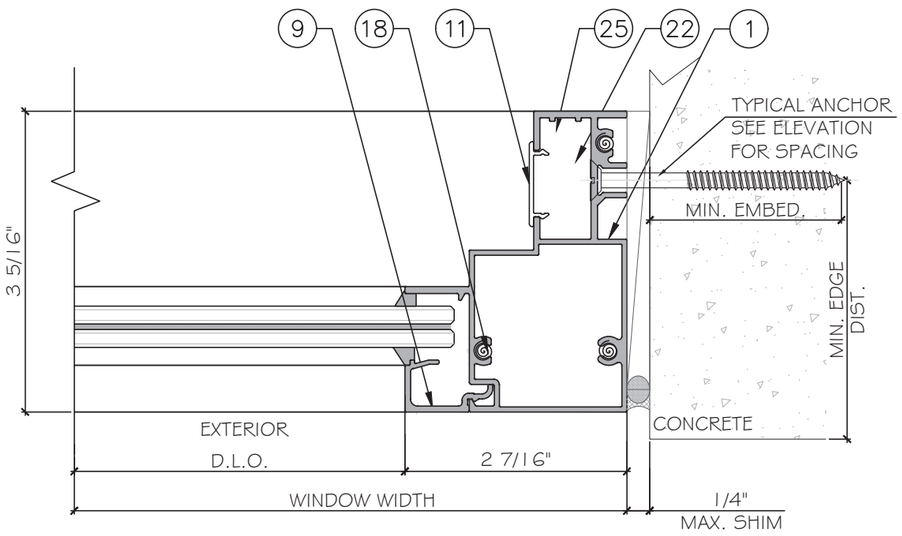
Sheet No. 6 OF 13




1 / D2 DETAIL




2 / D2 DETAIL




3 / D2 DETAIL

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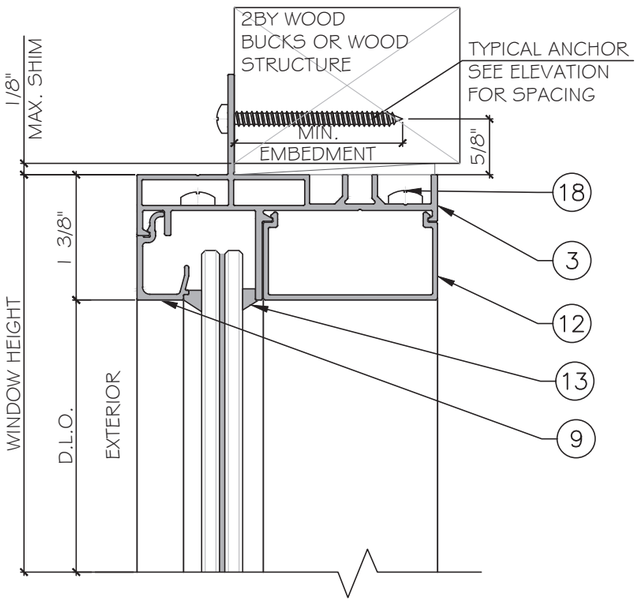
D2

Sheet No.: 7 OF 13

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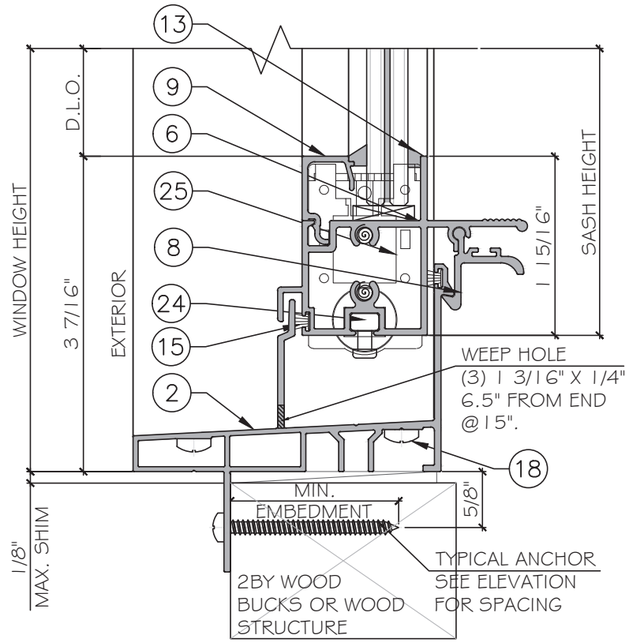


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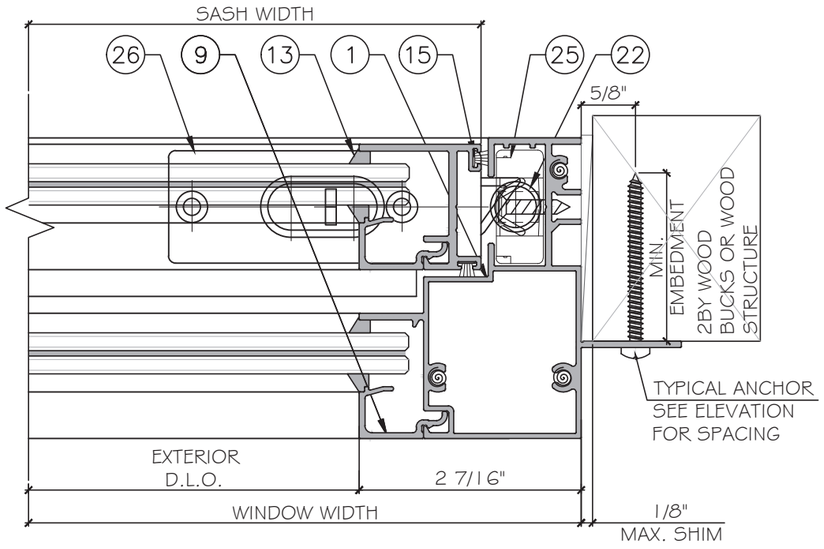


3 / D3 DETAIL

FLORIDA APPROVAL:

FL47435

YIPING WANG, P.E.
FLORIDA REGISTRATION
LIC. #55983
C.A.N. 5288077

LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

April 11th, 2025


**MCY ENGINEERING, INC.**
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com


YY86 ALUMINUM SINGLE HUNG WINDOW - LMI


ELITE DOORS AND WINDOWS, INC.
4780 CORONA AVENUE, VERNON, CALIFORNIA 90058
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EMAIL: Gino@elitedoorswindows.com


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D3

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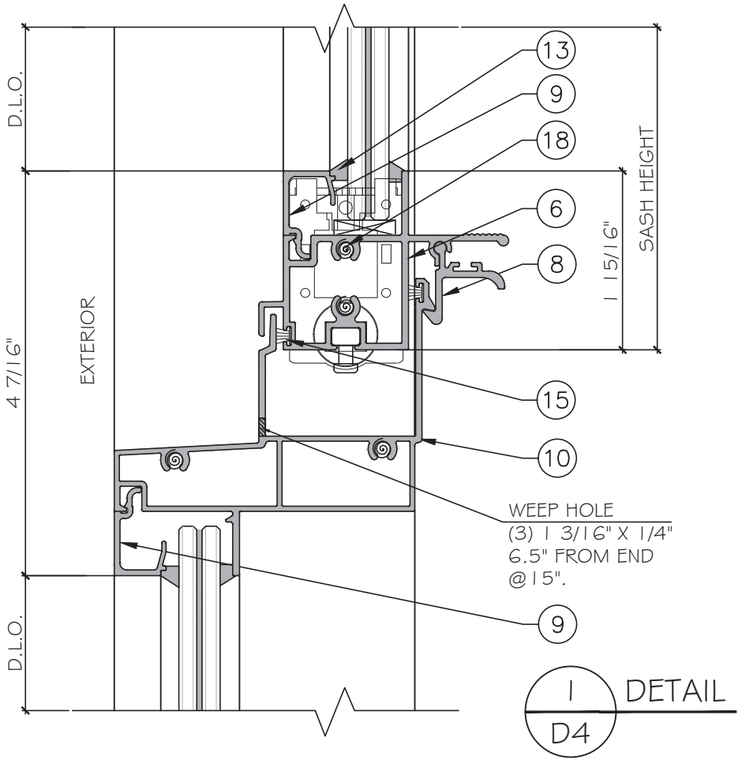


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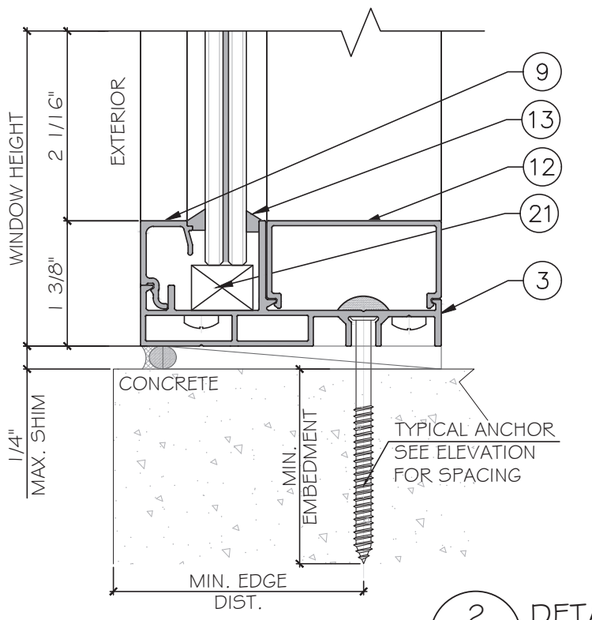


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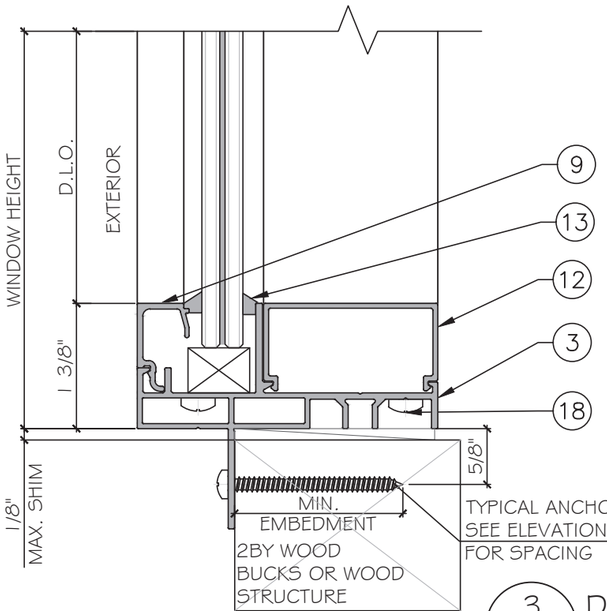


3 / D4 DETAIL

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YIMING WANG, P.E.
FLORIDA REGISTRATION
LIC. #55983
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D4

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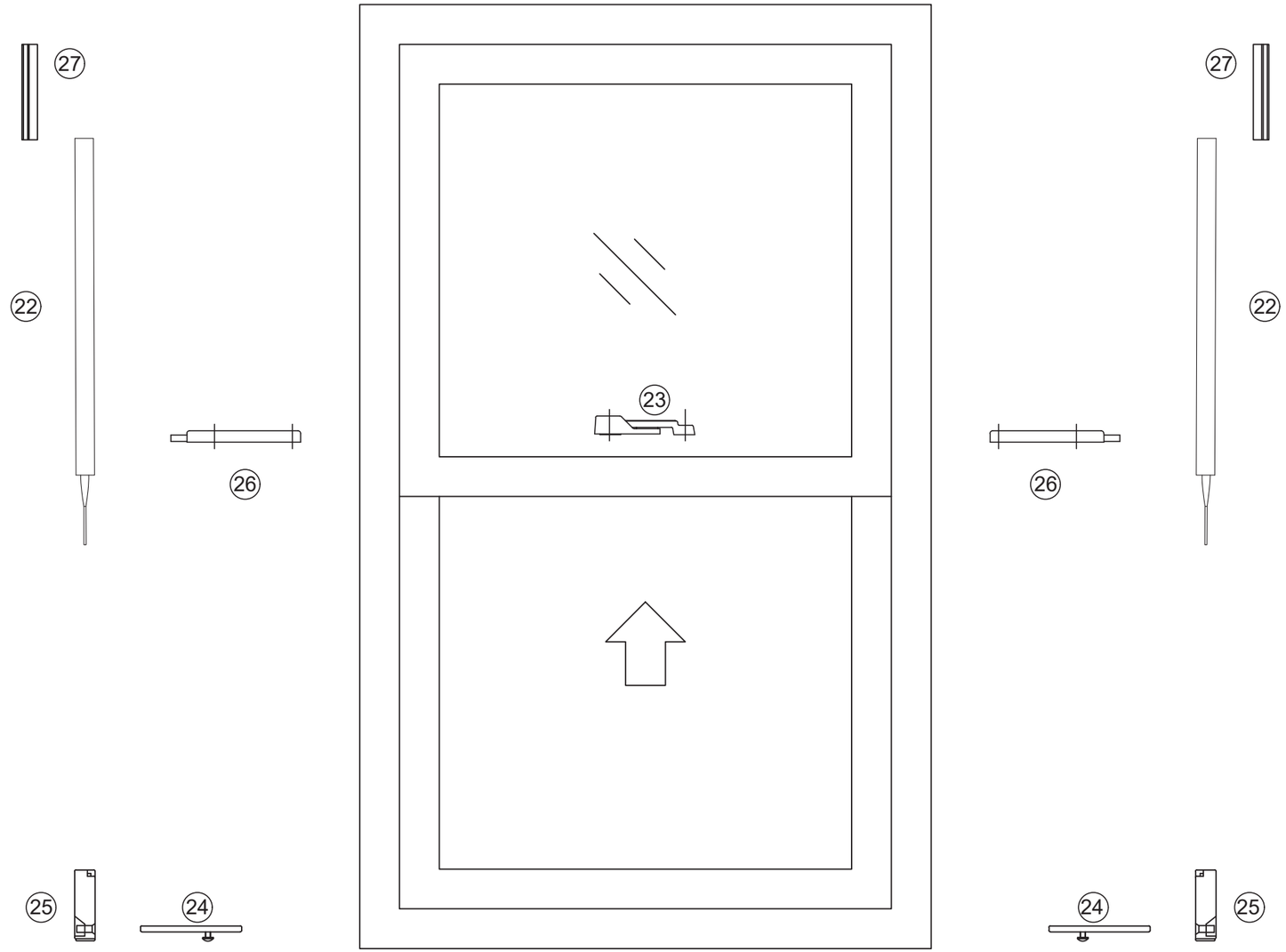


FLORIDA APPROVAL:

FL47435

YING WANG
FLORIDA REGISTRATION
LIC. #55983
C.A.N. 088077

STATE OF FLORIDA PROFESSIONAL ENGINEER
YING WANG LICENSE No 55983

April 11th, 2025

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HARDWARE

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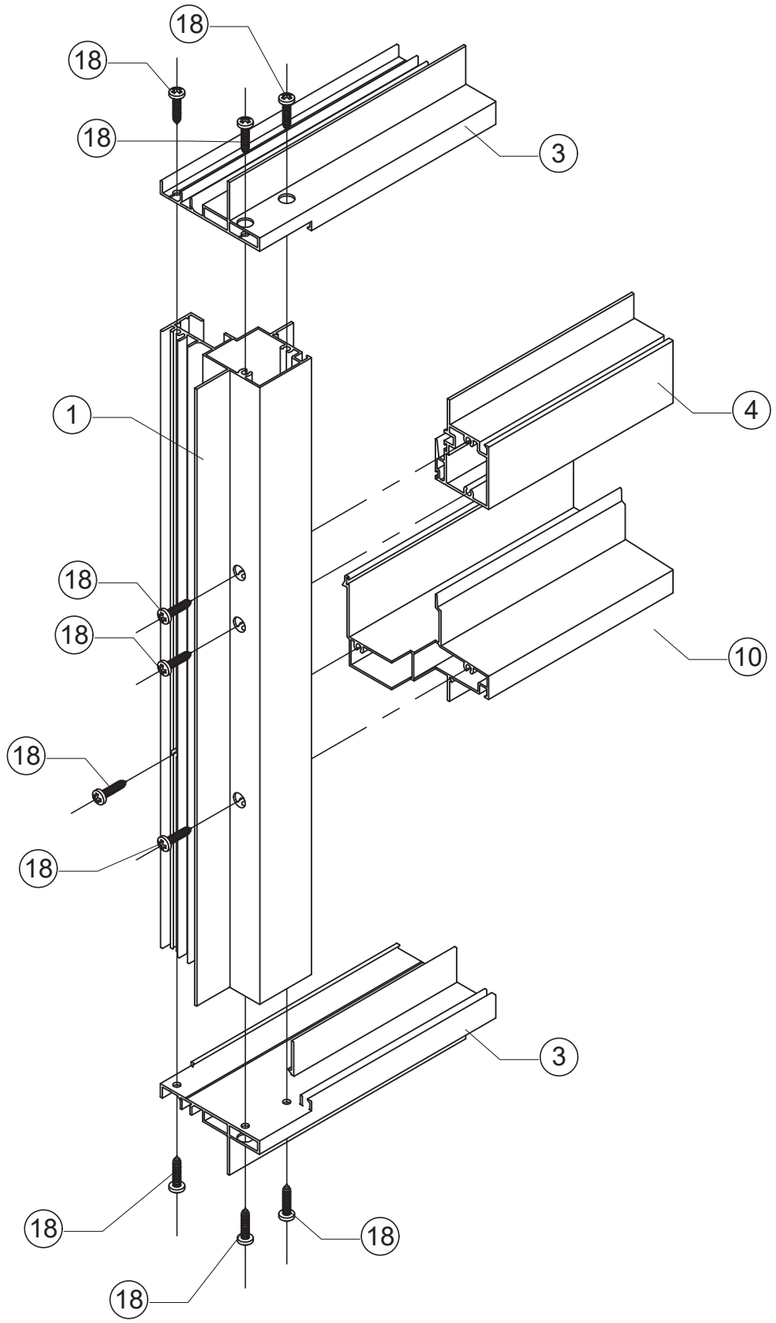


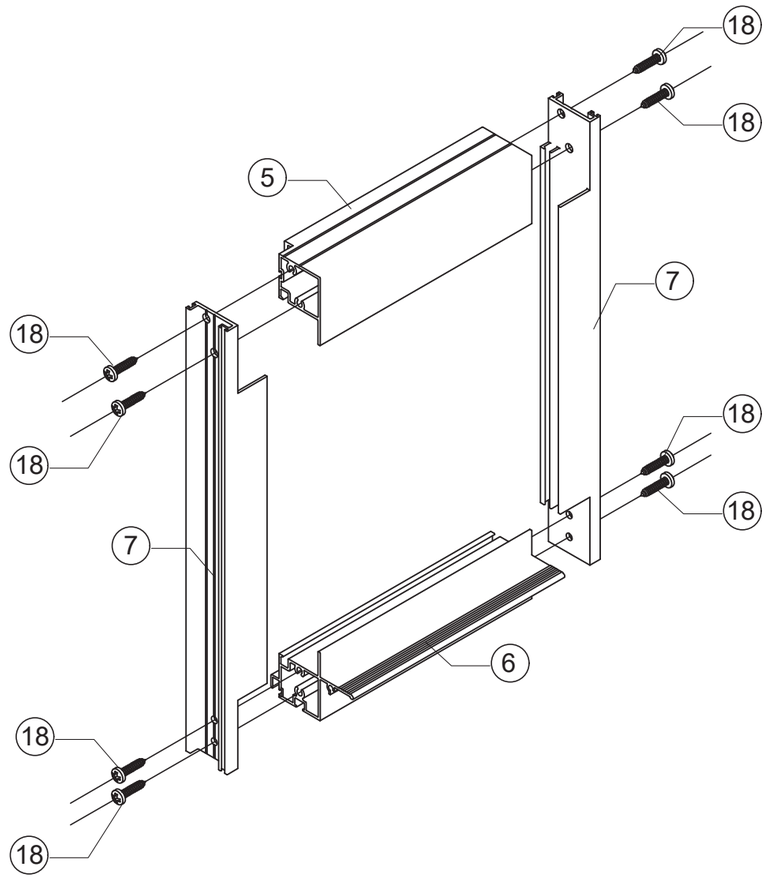


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YIPING WANG, P.E.
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C.A. #28077

STATE OF FLORIDA PROFESSIONAL ENGINEER
No 55983

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ASSEMBLY

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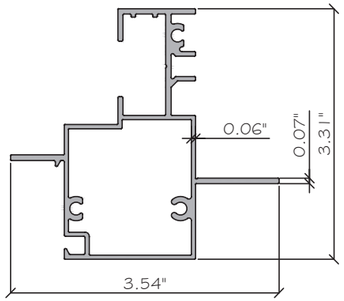
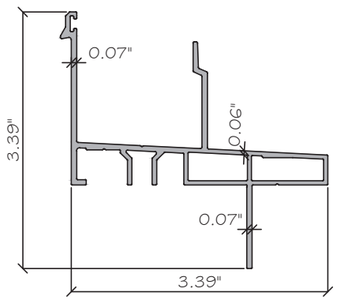
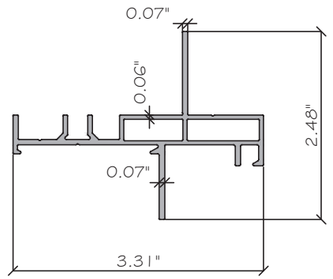


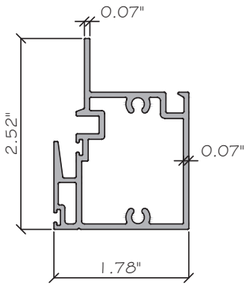

1 FRAME JAMB YY86-39
6063-T6



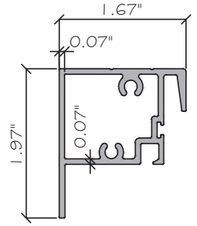

2 FRAME SILL YY86-40
6063-T5



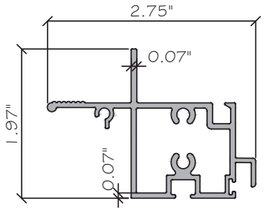

3 FRAME HEAD YY86-41
6063-T5



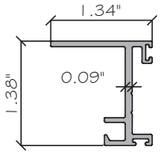

4 VENT SILL YY86-42
6063-T5



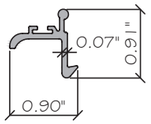

5 SASH TOP YY86-43
6063-T5



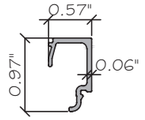

6 SASH BOTTOM YY86-44
6063-T5




7 VENT JAMB YY86-45
6063-T5

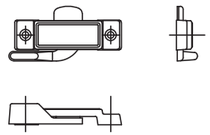



8 LOCK EXTRUSION YY86-46
6063-T5

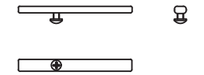



9 GLAZING CHANNEL YY86-47
6063-T5

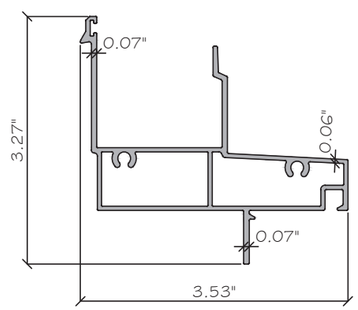
22 SPIRAL TYPE BALANCE
34-23.5
ALUM.+STEEL



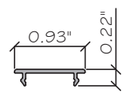
23 CRESCENT LOCK
FH01 (ZINC ALLOY)



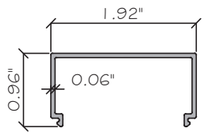
24 TIE-IN PIVOT BAR
F02C (STAINLESS STEEL)



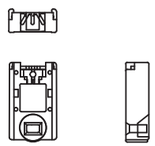

10 FRAME SILL YY86-48
6063-T5



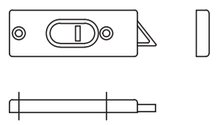

11 ALUM. FRAME YY86-49
6063-T5



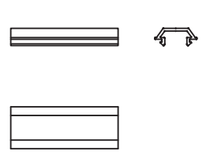

12 FRAME COVER YY86-50
6063-T5



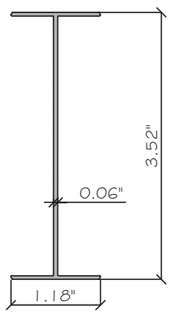
25 SLID BLOCK
F31A-J
(PA66+ZINC ALLOY)



26 TURNOVER LOCK
FH10-3M (ZINC ALLOY)



27 STOPPER
FU-10CM (PA66)




29 VERTICAL MULLION YY86-32
6063-T6

FLORIDA APPROVAL:
FL47435

YIPING WANG, P.E.
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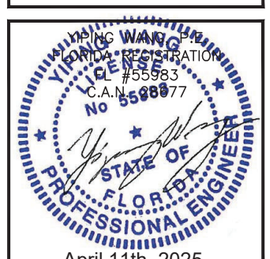


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PARTS

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# BILL OF MATERIALS

| ITEM # | PROFILE | DESCRIPTION | MATERIAL | MANUFACTURER/REMARKS |
|---|---|---|---|---|
| 1 | YY86-39 | FRAME JAMB | ALUM. 6063-T6 | - |
| 2 | YY86-40 | FRAME SILL | ALUM. 6063-T5 | - |
| 3 | YY86-41 | FRAME JAMB | ALUM. 6063-T5 | - |
| 4 | YY86-42 | VENT SILL | ALUM. 6063-T5 | - |
| 5 | YY86-43 | SASH TOP | ALUM. 6063-T5 | - |
| 6 | YY86-44 | SASH BOTTOM | ALUM. 6063-T5 | - |
| 7 | YY86-45 | VENT JAMB | ALUM. 6063-T5 | - |
| 8 | YY86-46 | LOCK EXTRUSION | ALUM. 6063-T5 | - |
| 9 | YY86-47 | SASH BEAD | ALUM. 6063-T5 | - |
| 10 | YY86-48 | FRAME | ALUM. 6063-T5 | - |
| 11 | YY86-49 | CAP | ALUM. 6063-T5 | - |
| 12 | YY86-50 | FRAME COVER | ALUM. 6063-T5 | - |
| 13 | - | DN995 | SILICONE | DOW CORNING |
| 14 | - | LAMINATED GLASS | - | - |
| 15 | - | MOHAIR | 5mm * 5mm | - |
| 16 | NOT USED | - | - | - |
| 17 | - | #6 X 3/4" PH SELF TAPPING SCREW. | S.S.304 | - |
| 18 | - | #10 X 1" PH SELF TAPPING SCREW. | S.S.304 | - |
| 19 | NOT USED | - | - | - |
| 20 | DP01 75X5 | WINDOW PACKER | PA66 | - |
| 21 | GSB01 | SETTING BLOCK, 3" X 1" X 1/4" | TPE | 70±5 SHORE A |
| 22 | 34-23.5 | SPIRAL TYPE BALANCE | ALUMINUM+STEEL | CALDWELL |
| 23 | FH01 | CRESCENT LOCK | ZINC ALLOY | CALDWELL |
| 24 | F02C | TIE-IN PIVOT BAR | STAINLESS STEEL | CALDWELL |
| 25 | F31A-J | SLIDER BLOCK | PA66+ZINC ALLOY | CALDWELL |
| 26 | FH10-3M | TURNOVER LOCK | ZINC ALLOY | CALDWELL |
| 27 | FU-10CM | STOPPER | PA66 | CALDWELL |
| 28 | - | #10 x 1 1/2" PH SMS | S.S.304 | - |
| 29 | YY86-32 | VERTICAL MULLION | ALUM. 6063-T6 | - |

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