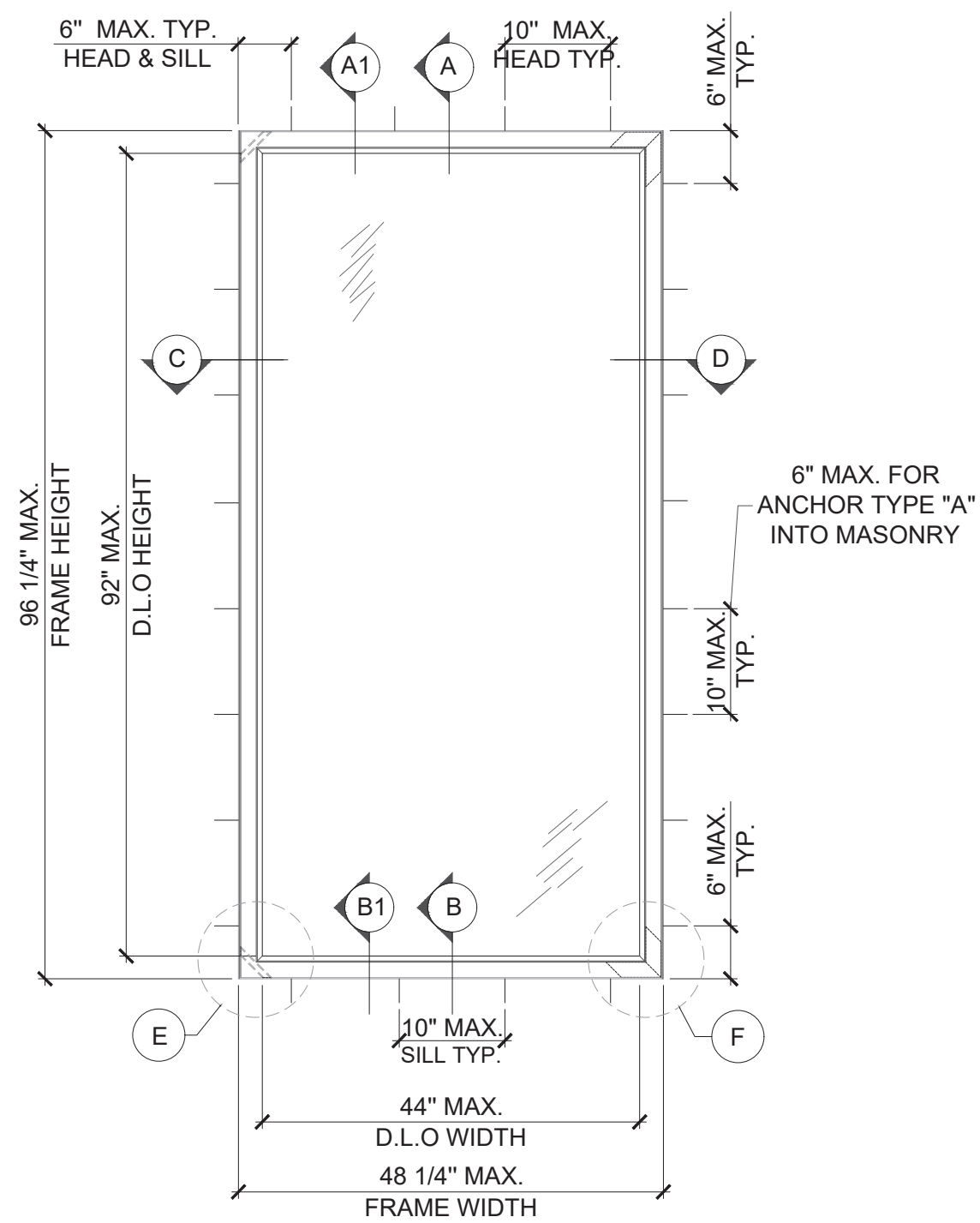




TYPICAL EXTERIOR ELEVATION

MAX. DESIGN LOADS
+ 50 PSF
- 60 PSF

GENERAL NOTES:

- THE STORM PANEL SYSTEM IS NON-POROUS LARGE/SMALL MISSILE IMPACT PROTECTION DEVICE. IT HAVE BEEN TESTED AS PER FBC 2023 TAS 202 (STRUCTURAL WIND LOAD ONLY) . THE SYSTEM IS ALSO TESTED AS PER ASTM E 1886, ASTM E 1996 WITH LARGE MISSILE IMPACTS CORRESPONDING TO MISSILE LEVEL D AND WIND ZONE 4.
- DESIGN LOAD SHALL BE DETERMINED BASED ON BASIC WIND SPEED, BUILDING HEIGHT AND WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- 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 2023 FLORIDA BUILDING CODE SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY EVOLUTION HURRICANE SHUTTER, LLC MUST SUPPORT LOADS IMPOSED BY SHUTTER SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

NOTE:
WIDTH AND LENGHT DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE

LIMITATIONS OF USE

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.

CONTRACTOR TO BE RESPONSIBLE FOR THE A-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.

THIS PRODUCT EVALUATION DOCUMENT WILL B-BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

SITE SPECIFIC PROJECTS SHALL BE PREPARED C-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 D-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.

THIS P.E.D. SHALL BEAR THE DATE AND E- ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL15888

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55988
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE 11.27.2025
SCALE AS NOTED
DRAWN Y.A.
PROJECT

DRAWING NO.
AD12-46

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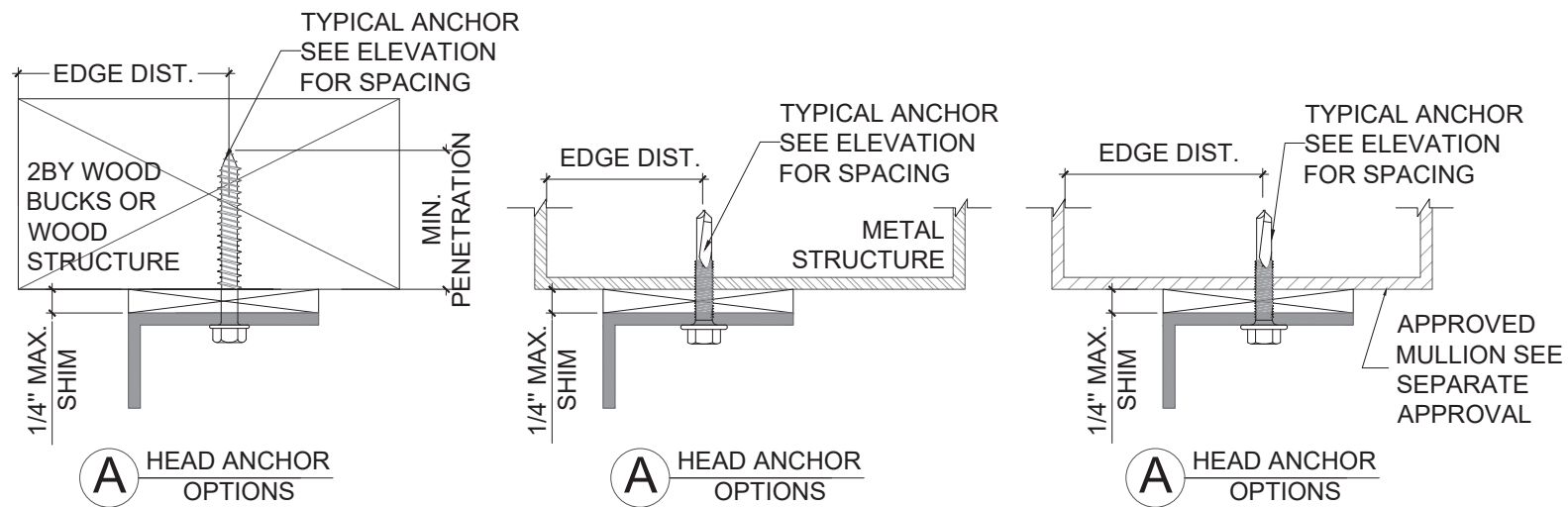
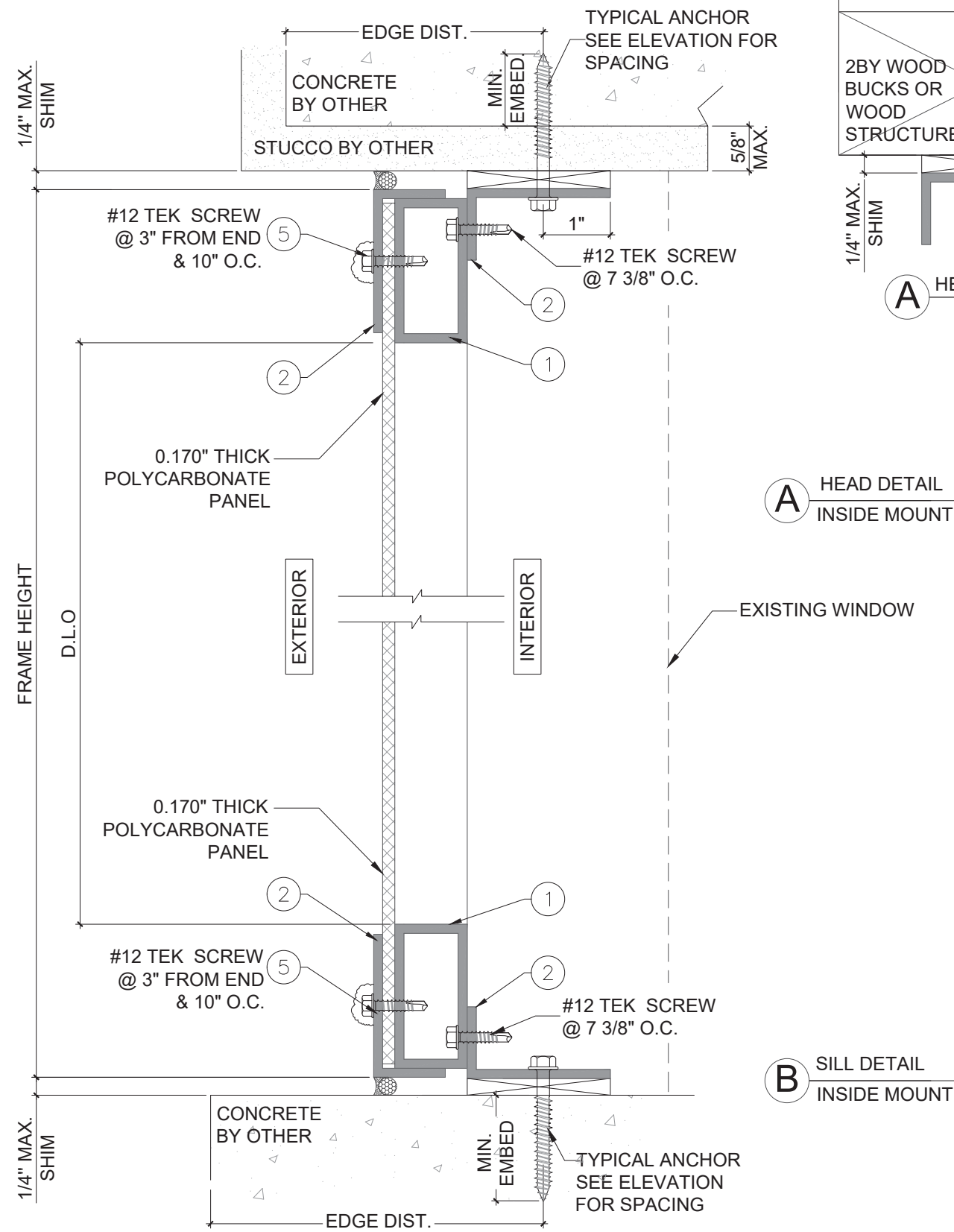
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
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P: (305) 588 5224
www.MCYEngineering.com mcy@mcyengineering.com

CLEAR STORM PANEL - L.M.I.

EVOLUTION HURRICANE SHUTTER, L.L.C

145 Posey Rd
Crawfordville FL 32327
Ph. 941-730-2200



WOOD BUCK/WOOD STRUCTURE OR METAL STRUCTURE BY OTHERS TO BE ANCHORED AND DESIGNED PROPERLY TO SUSTAIN THE LOAD FOR STORM PANEL SYSTEM.

ALL ANCHOR OPTIONS CAN APPLY TO HEAD, SILL AND JAMB ANCHORS

TYPICAL ANCHORS : (SEE ELEV. FOR SPACING)

- ANCHOR TYPE 'AA' - 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)**
OR 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177KSI, Fy=155KSI)
 INTO WOOD STRUCTURE WITH 1 1/2" MIN. EMBED
 OR THRU 1X OR 2X WOOD BUCK INTO CONCRETE
- ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)**
 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK
 OR 1 1/4" MIN. EMBED INTO HOLLOW BLOCK
- ANCHOR TYPE 'B' - 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)**
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 1 3/4" MIN. EMBED INTO CONCRETE
- ANCHOR TYPE 'C' - #14 SMS (GRADE 2) (Fu=74 KSI, Fy=57 KSI)**
#14 SELF DRILLING SCREW (GRADE 5) (Fu=120 KSI, Fy=92 KSI)
 INTO 1/8" THK. ALUM. STRUCTURE (6063-T5 MIN.)
 OR INTO 1/8" THK. STEEL STRUCTURE(A36 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

MASONRY
 ASTM C90 GROUT FILLED CONCRETE BLOCK
 HOLLOW CONCRETE BLOCK

CONCRETE
 f'c= 3,000 PSI MIN.

- ANCHOR EDGE DISTANCES (UNLESS SPECIFIED ON DETAIL)**
- INTO CONCRETE = 1 1/2" MIN.
 - INTO MASONRY = 2 1/2" MIN
 - INTO WOOD STRUCTURE = 1" MIN.
 - INTO METAL STRUCURE = 3/4" MIN.

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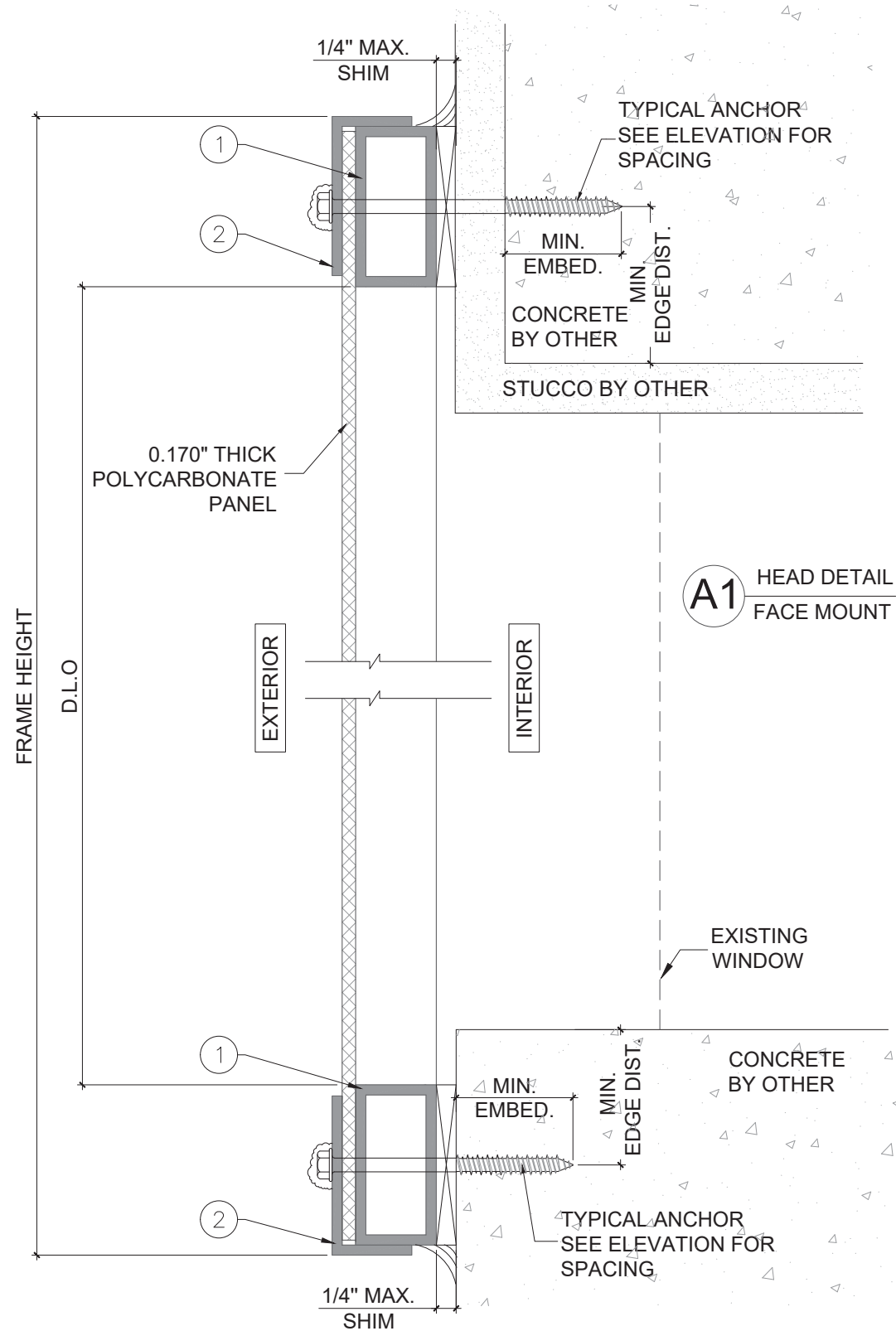
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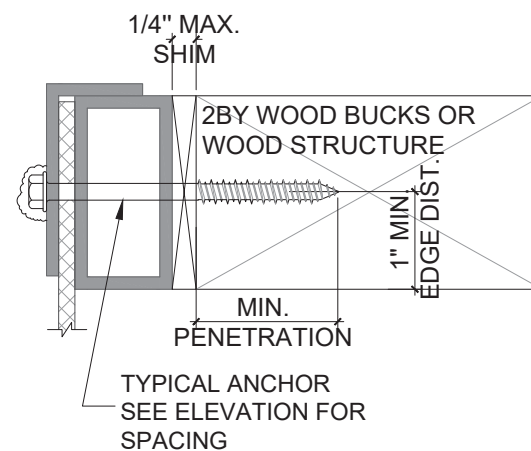
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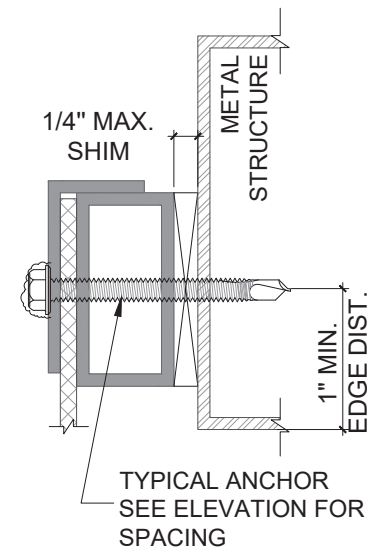


A1 HEAD DETAIL
FACE MOUNT

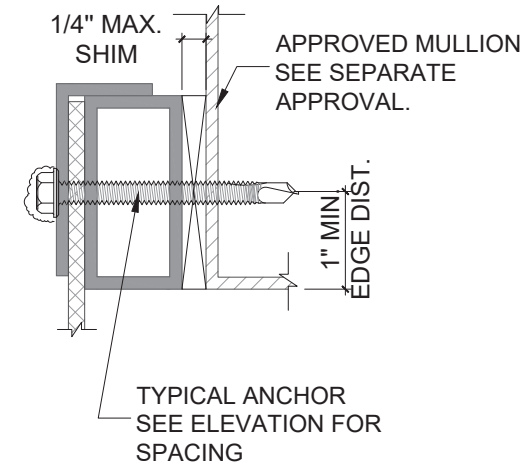
B1 SILL DETAIL
FACE MOUNT



A1 HEAD ANCHOR
OPTIONS



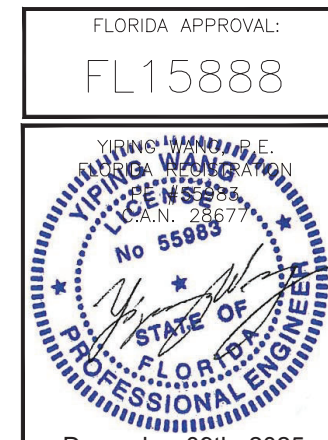
A1 HEAD ANCHOR
OPTIONS



A1 HEAD ANCHOR
OPTIONS

ALL ANCHOR OPTIONS CAN APPLY
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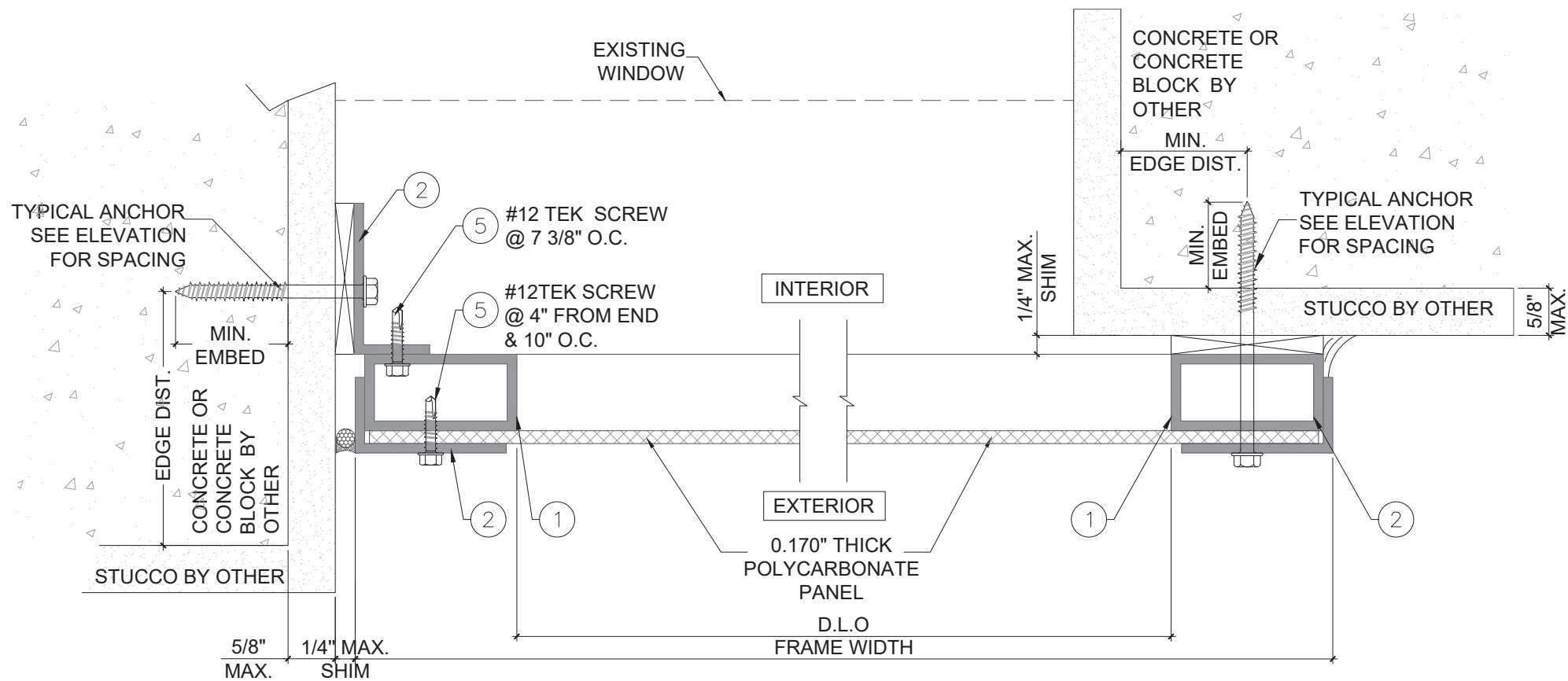
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C LEFT JAMB DETAIL
INSIDE MOUNT OPTION

D RIGHT JAMB DETAIL
FACE MOUNT OPTION

ALL ANCHOR OPTIONS CAN APPLY
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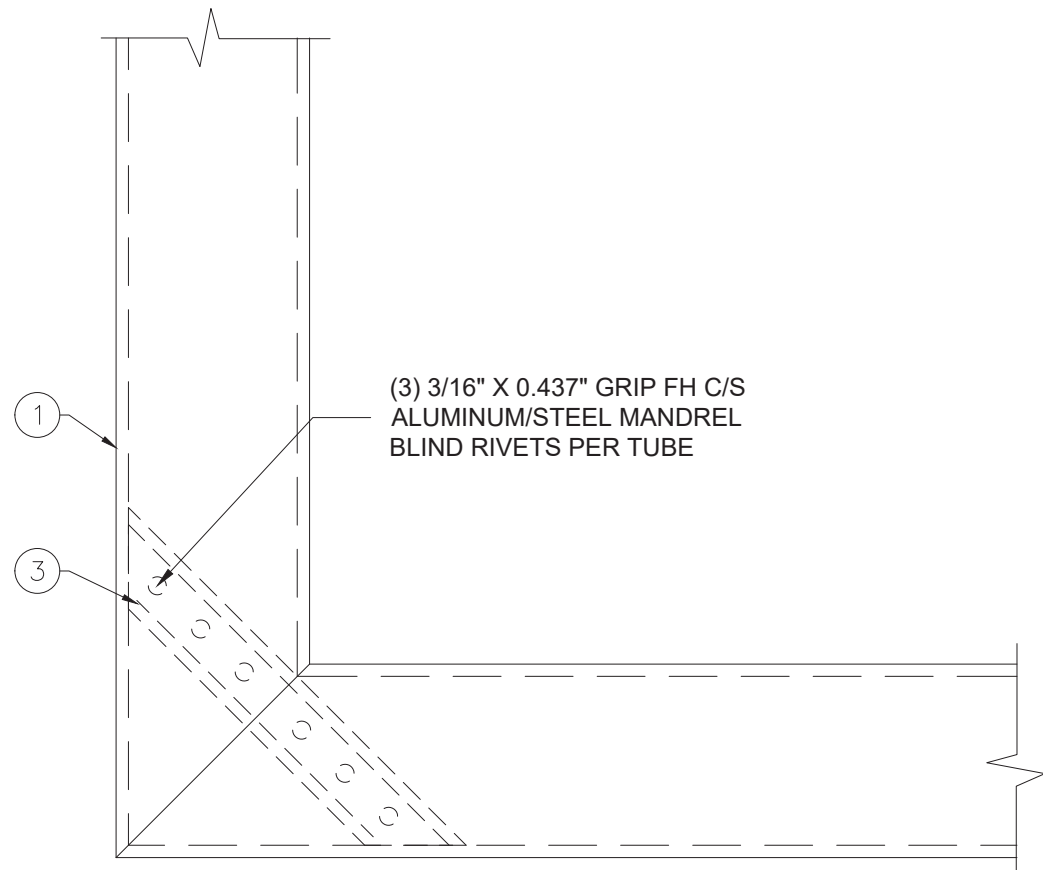
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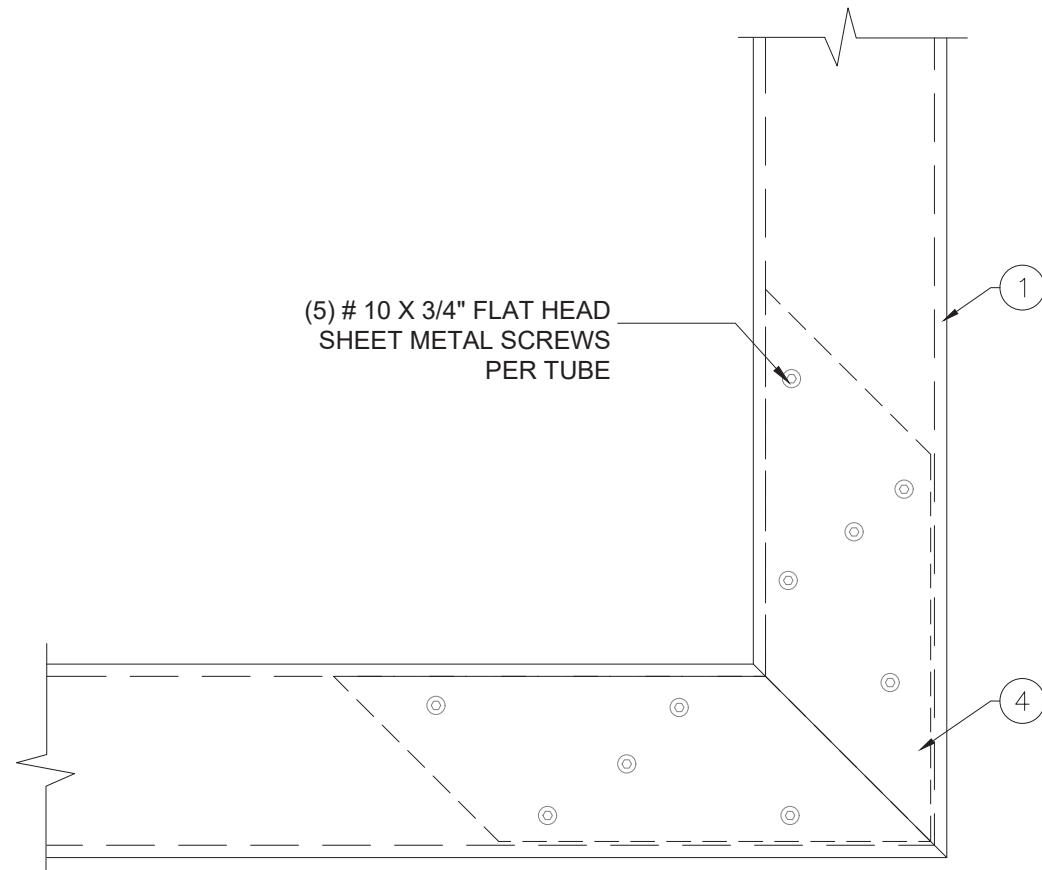
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E CORNER TUBE CONNECTOR
OPTION 1



F CORNER KEY CONNECTOR
OPTION 2

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December 09th, 2025

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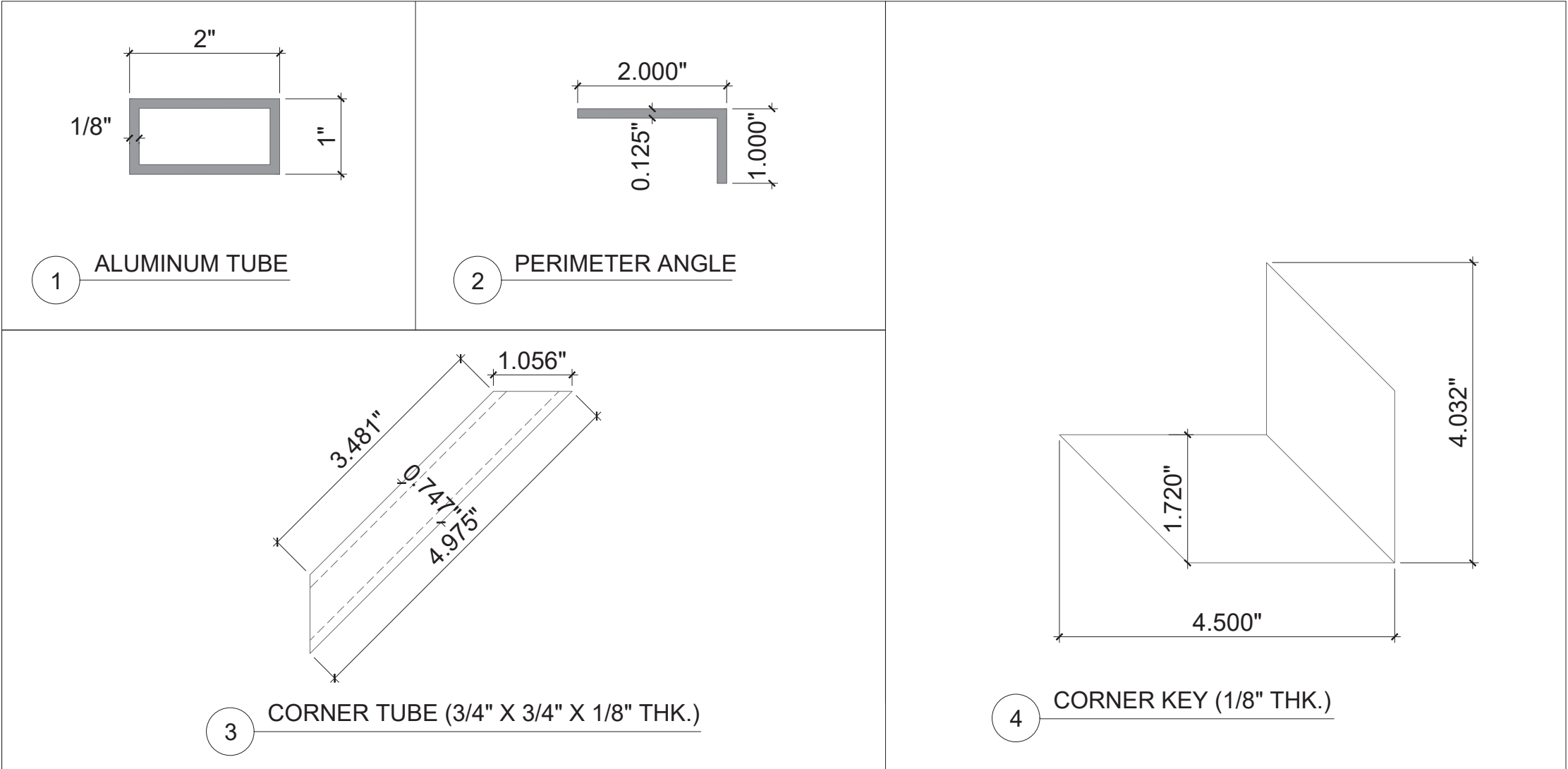
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BILL OF MATERIALS			
ITEM #	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	ALUMINUM TUBE	6063-T5 ALUM	EVOLUTION HURRICANE SHUTTER, LLC
2	PERIMETER ANGLE	6063-T5 ALUM	EVOLUTION HURRICANE SHUTTER, LLC
3	CORNER TUBE	6063-T6 ALUM	EVOLUTION HURRICANE SHUTTER, LLC
4	CORNER KEY	6063-T6 ALUM	EVOLUTION HURRICANE SHUTTER, LLC
5	#12 X 1" LG TEKS-SELF DRILLING SCREW	GRADE 5	-



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