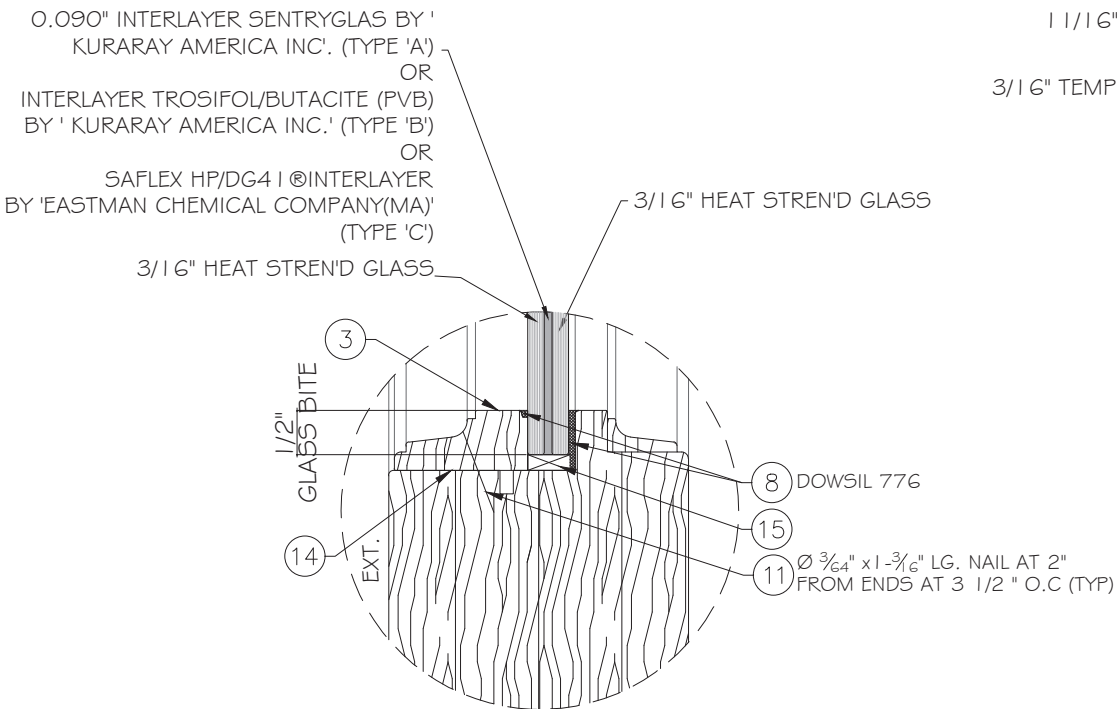
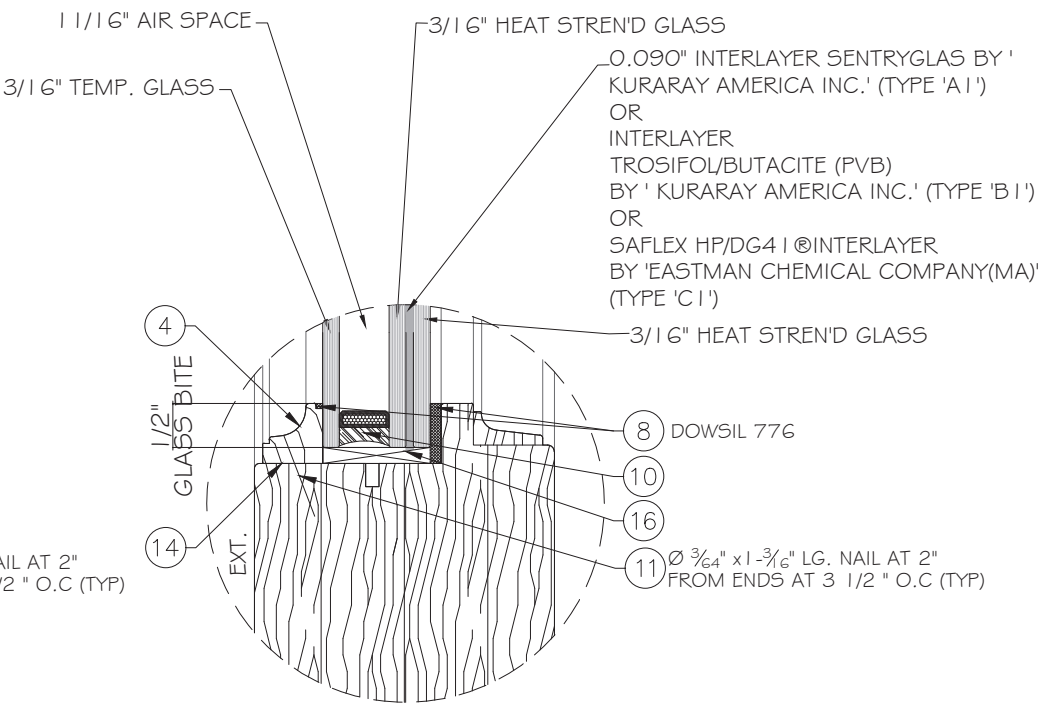


MIXLEGNO MULLED FIXED WINDOWS
LARGE & SMALL MISSILE IMPACT



GLASS TYPE 'A' , 'B' AND 'C'
1/2" NOMINAL OVERALL LAM. GLASS



GLASS TYPE 'A1' , 'B1' AND 'C1'
1 3/8" NOMINAL OVERALL INSUL. LAM. GLASS

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

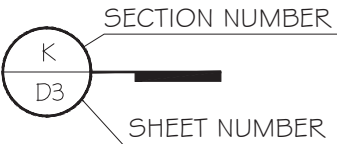
GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS 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 FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY MIXLEGNO GROUP S.R.L. TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING (MAIN STRUCTURE).

- THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS. 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 LOWER DESIGN LOAD RESULTING FROM ANCHORS AND MULLION CAPACITIES SHALL APPLY TO ENTIRE SYSTEM.
- 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.

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

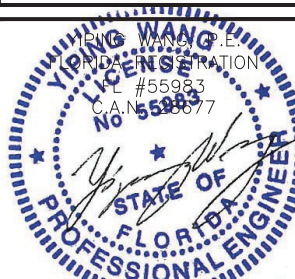


LIMITATIONS OF USE

- 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:

FL # 29497



March 08th, 2024

REVISIONS	
NO.	DATE
R2	03.08.2024
	DESCRIPTION
	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 305.588.5224
MIRAMAR FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

MIXLEGNO MULLED FIXED WINDOWS

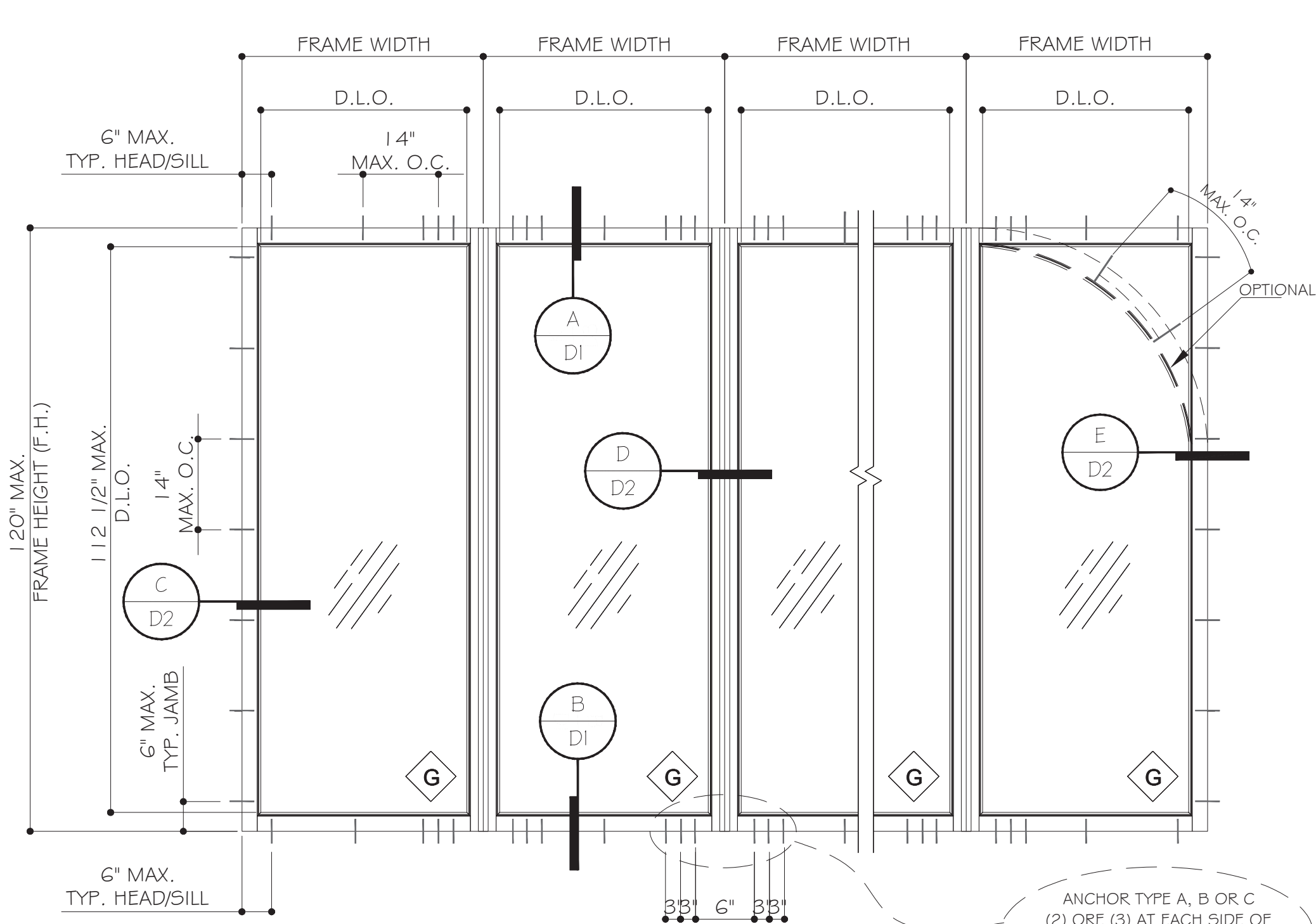
MIXLEGNO GROUP S.R.L.
VIA DIAZ,5, S.ANDREA DI BARBARANA,
DI S.BIAGIO DI CALLALTA (TV)30148, ITALY
TEL. 0422 890216 - FAX 0422 790334
www.mixlegno.it info@mixlegno.it

COVER

DATE	03.08.2024
SCALE	
DRAWN	JAMES
PROJECT	MCY18-181

DRAWING NO.
AD18-41

01 OF 09



GLASS OPTIONS



REFER TO SHEET I FOR GLASS OPTIONS.

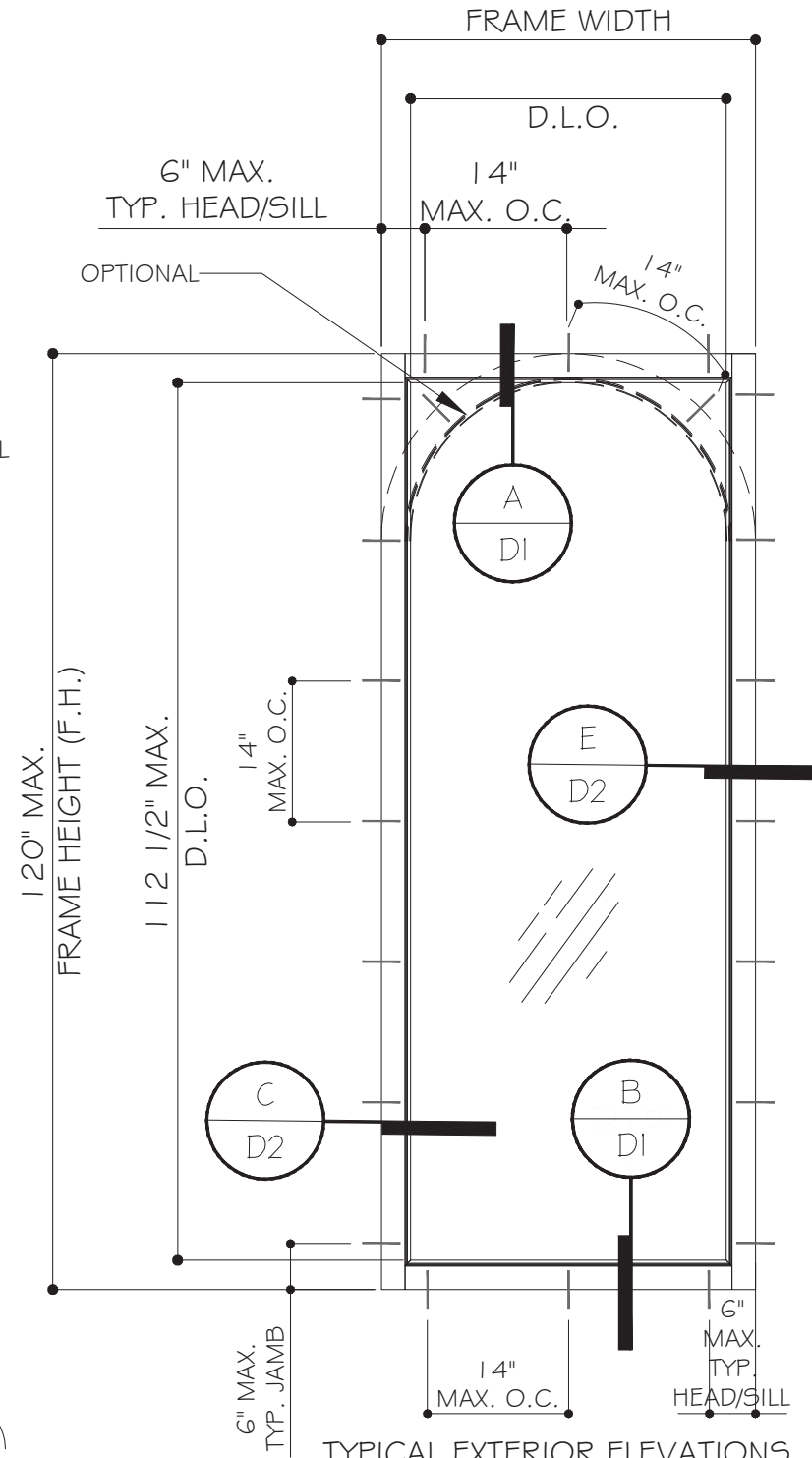
NOTE:

D.L.O.W. = F.W. - 7.125"

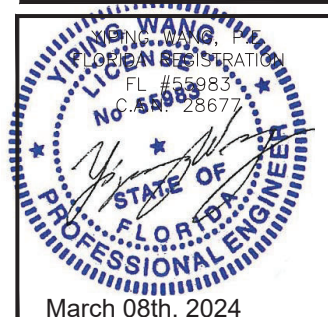
D.L.O.H. = F.H. - 7.5"

SEALANT: DOWSIL 776

PERIMETER OF FRAME ON THE INTERIOR, FRAME CORNERS, GLAZING BEAD SEAMS AT EACH END, FIXED MEETING RAIL AT EACH END, INSTALLATION FASTENERS AT FRAME SILL & EACH END OF FRAME SILL TRACK.



FLORIDA APPROVAL:
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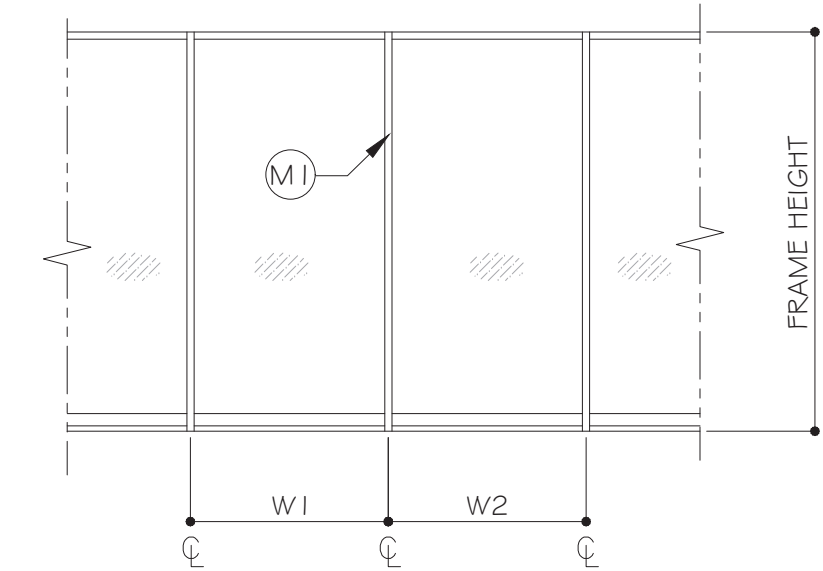
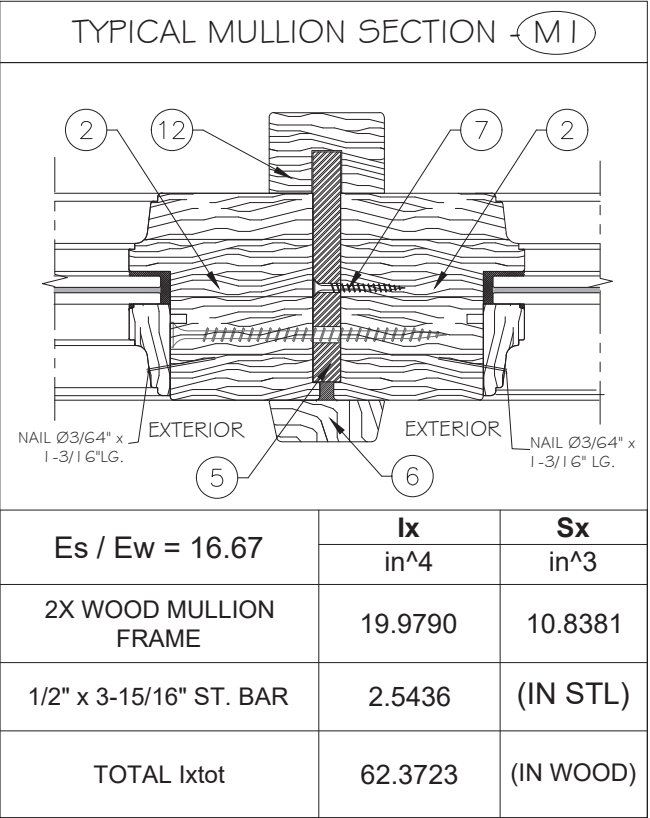
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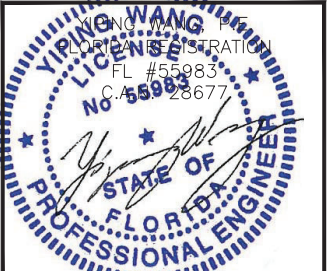
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MAX. DESIGN LOAD FOR WINDOW WALL W REINFORCED MULLION (+/- PSF)		
WIDTH (W) IN	FRAME HEIGHT IN	MULLION OPTION
		(MI)
30	90	75.0
36		75.0
42		75.0
48		75.0
30	96	75.0
36		75.0
42		75.0
48		75.0
30	102	75.0
36		75.0
42		75.0
48		75.0
30	108	75.0
36		75.0
42		75.0
48		75.0
30	114	75.0
36		75.0
42		75.0
48		75.0
30	120	75.0
36		75.0
42		75.0
48		72.0



MULLION TRIB. WIDTH (W) = $\frac{W1 + W2}{2}$

FLORIDA APPROVAL:
FL # 29497



March 08th, 2024

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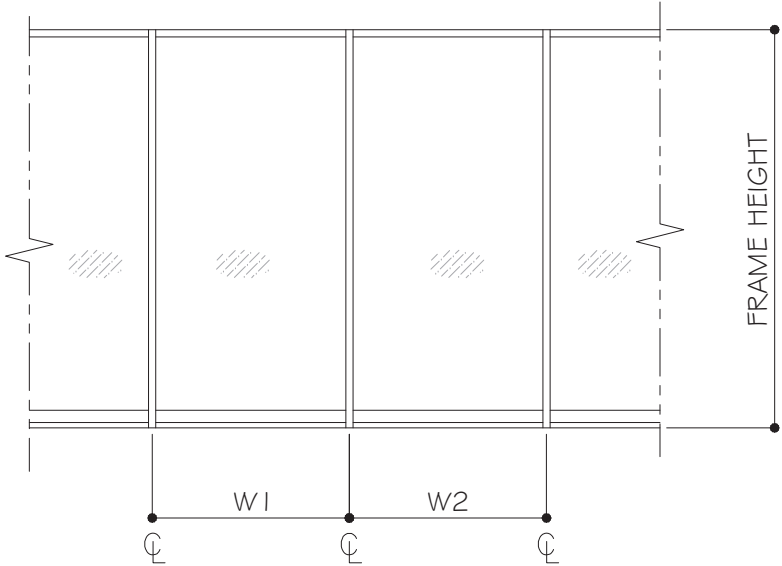
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M1	
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SCALE	
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AD18-41	
03 OF 09	

MAX. DESIGN LOAD FOR WINDOW WALL DUE TO HEAD & SILL ANCHOR CAPACITY (+/- PSF)					
WIDTH (W) IN	FRAME HEIGHT IN	1/4" MAX. SHIM SPACE			
		A2	B2	C2	C3
30	90	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
30	96	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
30	102	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
48		75.0	75.0	69.0	75.0
30	108	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	71.0	75.0
48		75.0	75.0	64.0	75.0
30	114	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	66.0	75.0
48		75.0	75.0	60.0	75.0
30	120	75.0	75.0	75.0	75.0
36		75.0	75.0	71.0	75.0
42		75.0	75.0	62.0	75.0
48		74.0	75.0	56.0	75.0



MULLION TRIB. WIDTH (W) = $\frac{W1 + W2}{2}$

ANCHOR OPTIONS:

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION

B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

TYPICAL ANCHORS:

ANCHOR TYPE A:

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 1 64KSI, Fy= 1 48KSI)

- INTO WOOD STRUCTURE WITH 1-1/2" EMBED.
- THRU 1X OR 2X WOOD BUCKS INTO CONCRETE OR DIRECTLY INTO CONCRETE WITH 1-3/4" EMBED.
- INTO HOLLOW BLOCK WITH 1-1/4" EMBED. (JAMB ONLY)
- INTO GROUT FILLED BLOCK WITH 1-3/4" EMBED. (JAMB ONLY)

ANCHOR TYPE B:

1/4" TEKS - SELF DRILLING SCREWS (GRADE 5)
(Fu= 1 20 KSI, Fy=92 KSI)

- INTO STEEL (A36): 1/8" THK. MIN. (FY =36 KSI MIN.)

ANCHOR TYPE C:

1/4" TEKS - SELF DRILLING SCREWS (GRADE 5)
(Fu= 1 20 KSI, Fy=92 KSI)

- INTO ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

MINIMUM EDGE DISTANCE:

- CONCRETE OR GROUT FILLED = 2-1/2"
- HOLLOW BLOCK = 2-1/2"
- WOOD STRUCTURE = 1"
- METAL STRUCTURE = 3/4"

WOOD STRUCTURE AND BUCK: SG = 0.55 MIN. (SOUTHERN PINE)
CONCRETE: f'c = 3000 PSI MIN.
HOLLOW/FILLED BLOCK AT JAMB: f'm = 2000 PSI MIN. (ASTM C-90 GRADE N)

NOTE: METAL STRUCTURE NOT BY MIX LEGNO
MUST SUPPORT THE LOAD IMPOSED BY GLAZING
SYSTEM AND TRANSFER THEM TO BUILDING
STRUCTURE

FLORIDA APPROVAL:
FL # 29497

YIPING WANG
FLORIDA PROFESSIONAL ENGINEER
No. 55983
C.S. 28677
March 08th, 2024

REVISIONS	
NO	DATE
R2	03.08.2024
FBC 2023	

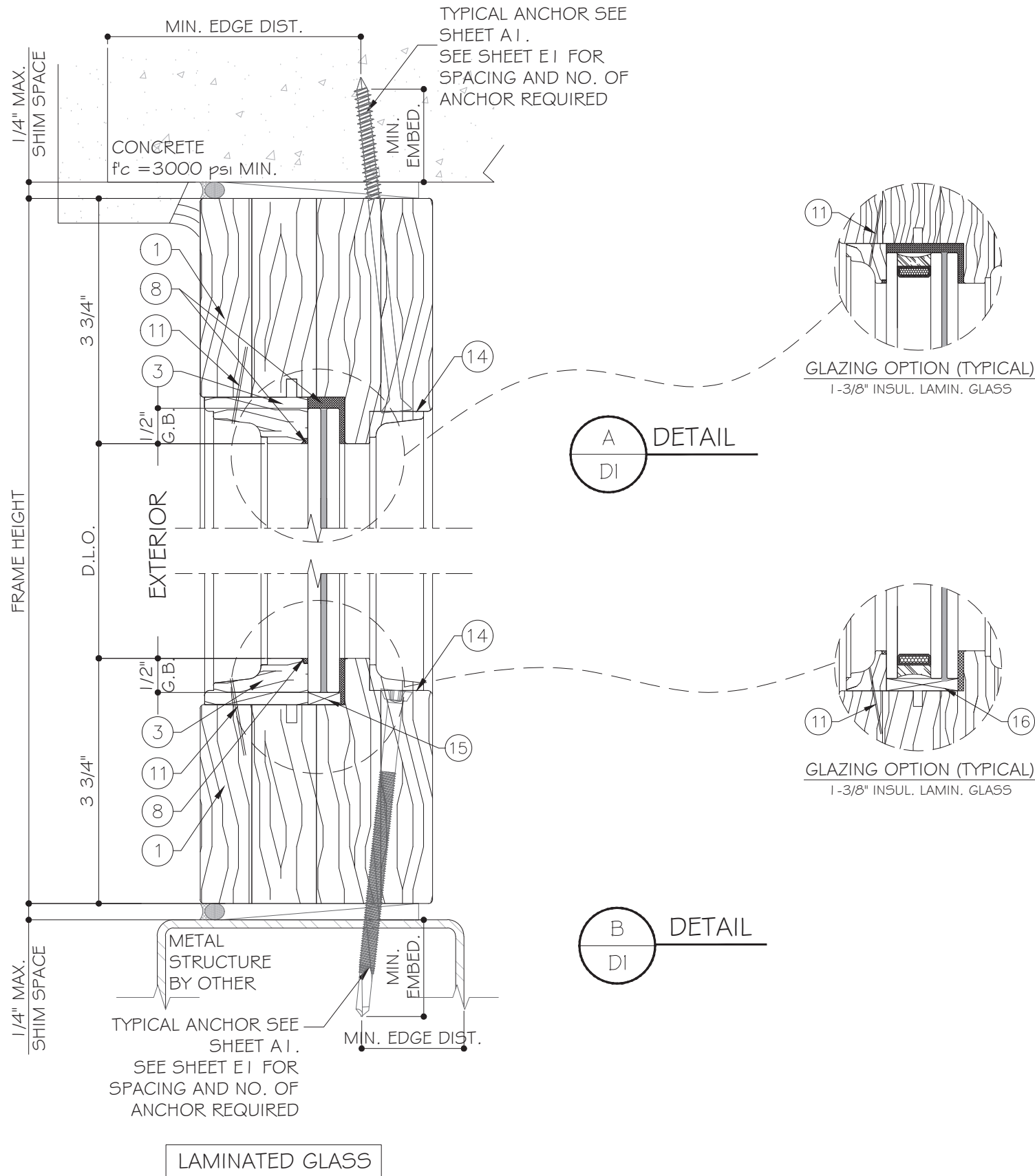
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MIXLEGNO MULLED FIXED WINDOWS

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A1	
DATE	03.08.2024
SCALE	
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AD18-41	
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WOOD BUCKS NOT BY MIXLEGNO MUST BE ANCHORED PROPERLY TO TRANSFER OR SUPPORT THE LOAD IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO BUILDING STRUCTURE

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FL # 29497

YIPING WANG
FLORIDA PROFESSIONAL ENGINEER
No. 55983
C.S. 28677

March 08th, 2024

REVISIONS	
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R2 03/08/2024	FBC 2023

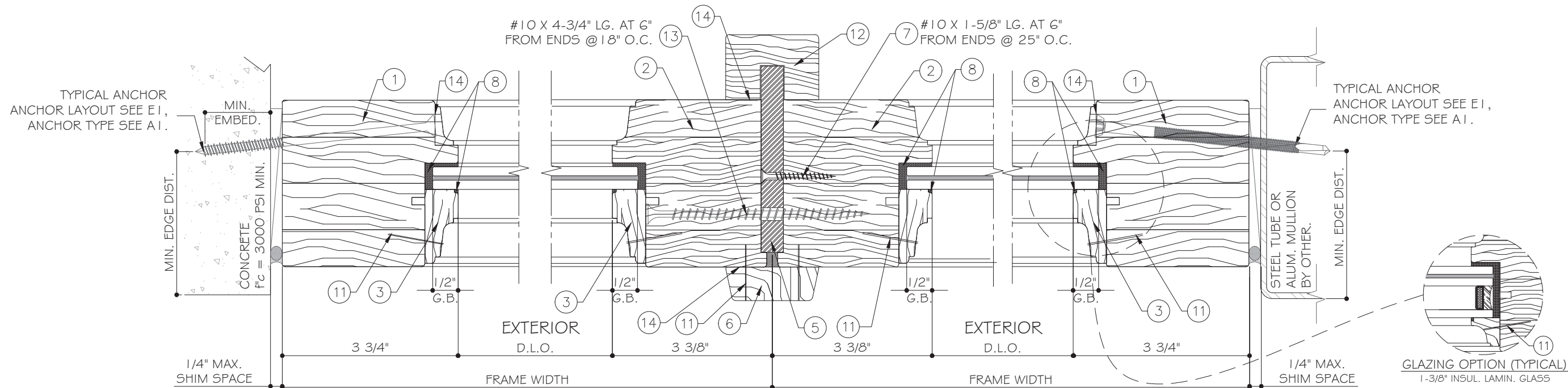
	
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D1	
DATE	03.08.2024
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PROJECT	MCY18-181

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AD18-41

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C
D2

DETAIL

D
D2

DETAIL

E
D2

DETAIL

FLORIDA APPROVAL:
FL # 29497

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
FL #55983
C.S.# 28677
March 08th, 2024

MIXLEGNO MULLED FIXED WINDOWS

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NO. DATE DESCRIPTION

R2 03.08.2024 DEC 2023

D2

DATE 03.08.2024

SCALE

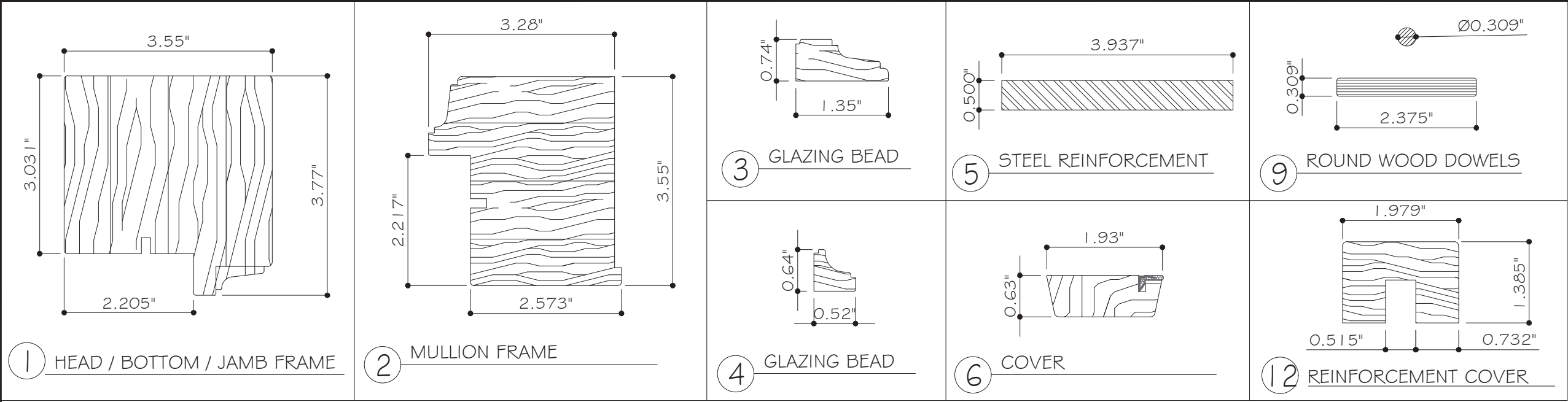
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PROJECT MCY18-181

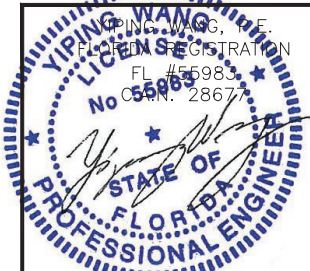
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AD18-41

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FLORIDA APPROVAL:
FL # 29497



March 08th, 2024

MIXLEGNO MULLED FIXED WINDOWS
MIXLEGNO GROUP S.R.L.
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PARTS	
DATE	03.08.2024
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DRAWN	JAMES
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AD18-41

07 OF 09

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BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER /REMARKS
1	MX-52	HEAD/BOTTOM/AJMB FRAME	ASH LAMINATED WOOD	MIXLEGNO GROUP S.R.L. - (SG=0.65) (MC= 1 2%)
2	MX-53	HINGE STILE	ASH LAMINATED WOOD	MIXLEGNO GROUP S.R.L. - (SG=0.65) (MC= 1 2%)
3	MX-42	GLAZING BEAD (LAMINATED GLASS)	SOLID WOOD	MIXLEGNO GROUP S.R.L.
4	MX-43	GLAZING BEAD (INSULATED LAMINATED GLASS)	SOLID WOOD	MIXLEGNO GROUP S.R.L.
5	-	STEEL REINFORCEMENT 1/2" X 3-15/16" BAR	STEEL	Fy = 36 KSI MIN.
6	-	COVER	SOLID WOOD	MIXLEGNO GROUP S.R.L.
7	-	#10 x 1-5/8" LG. FH SDS SCREW @ 25" O.C.	STAINLESS STEEL	-
8	-	DOWSIL™ 776 STRUCTURAL SILICONE	SILICONE	DOWSIL
9	MX-57	ROUND WOOD DOWELS (5/16" DIA. X 2-3/8" LG.)	BEECH WOOD	MIXLEGNO GROUP S.R.L.
10	-	GLASS SPACER	ALUMINUM	ALU PRO S.R.L.
11	-	NAILS 3/64"x1-3/16" LG. AT 2" FROM ENDS & 3 1/2 " O.C	STEEL	-
12	-	REINFORCEMENT COVER	ASH LAMINATED WOOD	MIXLEGNO GROUP S.R.L. - (SG=0.65) (MC= 1 2%)
13	MX-09	WOOD SCREWS FOR FIXING SASH,#10 X 4-3/4" LG. AT 6" FROM ENDS @18" O.C.	STAINLESS STEEL	WURTH
14	-	WOOD GLUE - PROTOVIL D3	WOOD GLUE	COLANTI CONCORDE S.R.L.
15	-	3/16" x 1/2" x 2" SETTING BLOCKS	EPDM,70-90 SHORE A DUROMETER	-
16	-	3/16" x 1-3/8" x 2" SETTING BLOCKS	EPDM,70-90 SHORE A DUROMETER	-

MC = MOISTURE CONTENT

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FLORIDA APPROVAL:
FL # 29497

YIPING WANG, P.E.

FLORIDA REGISTRATION

FL #55983

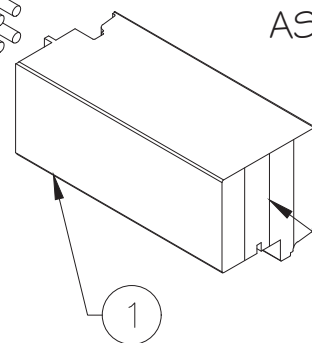
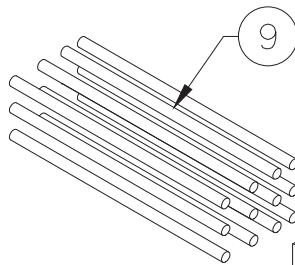
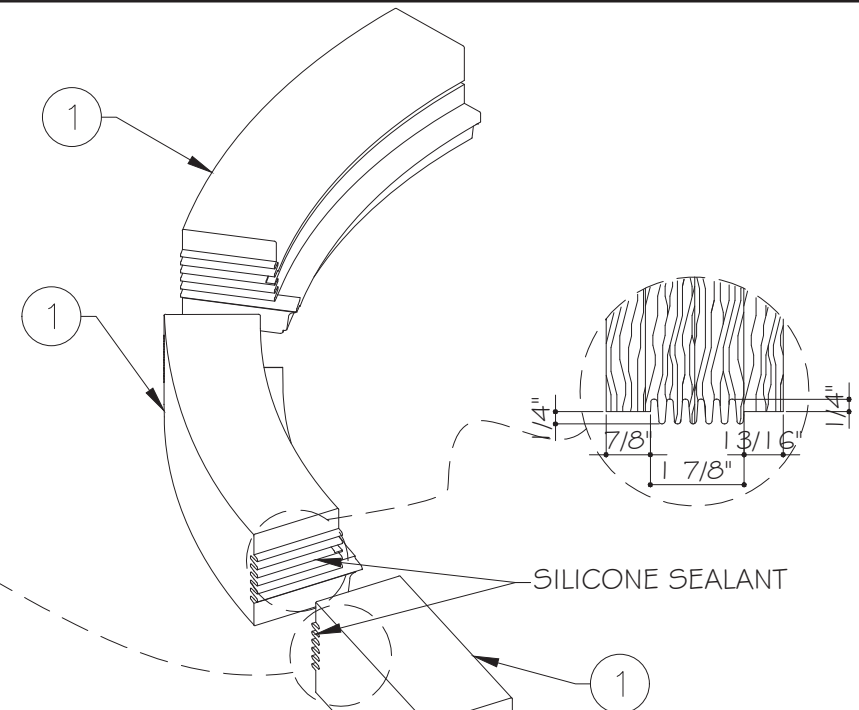
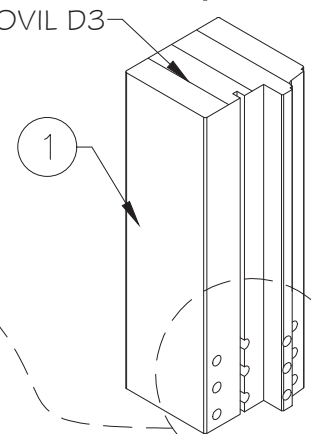
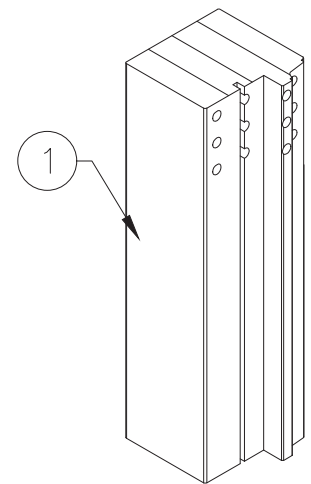
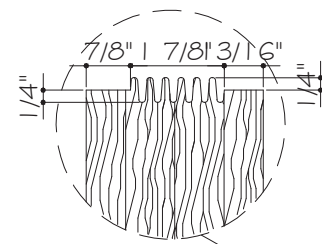
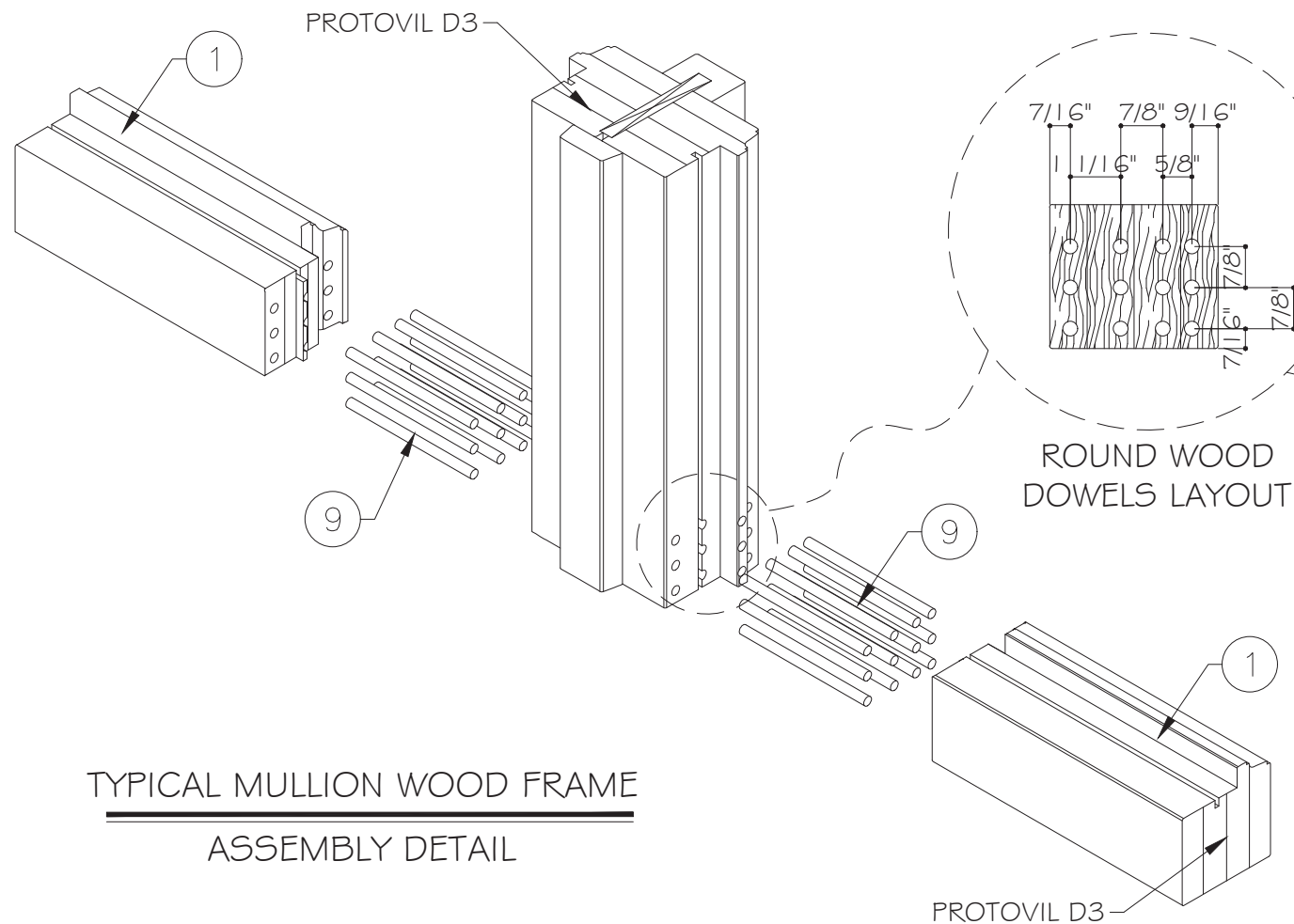
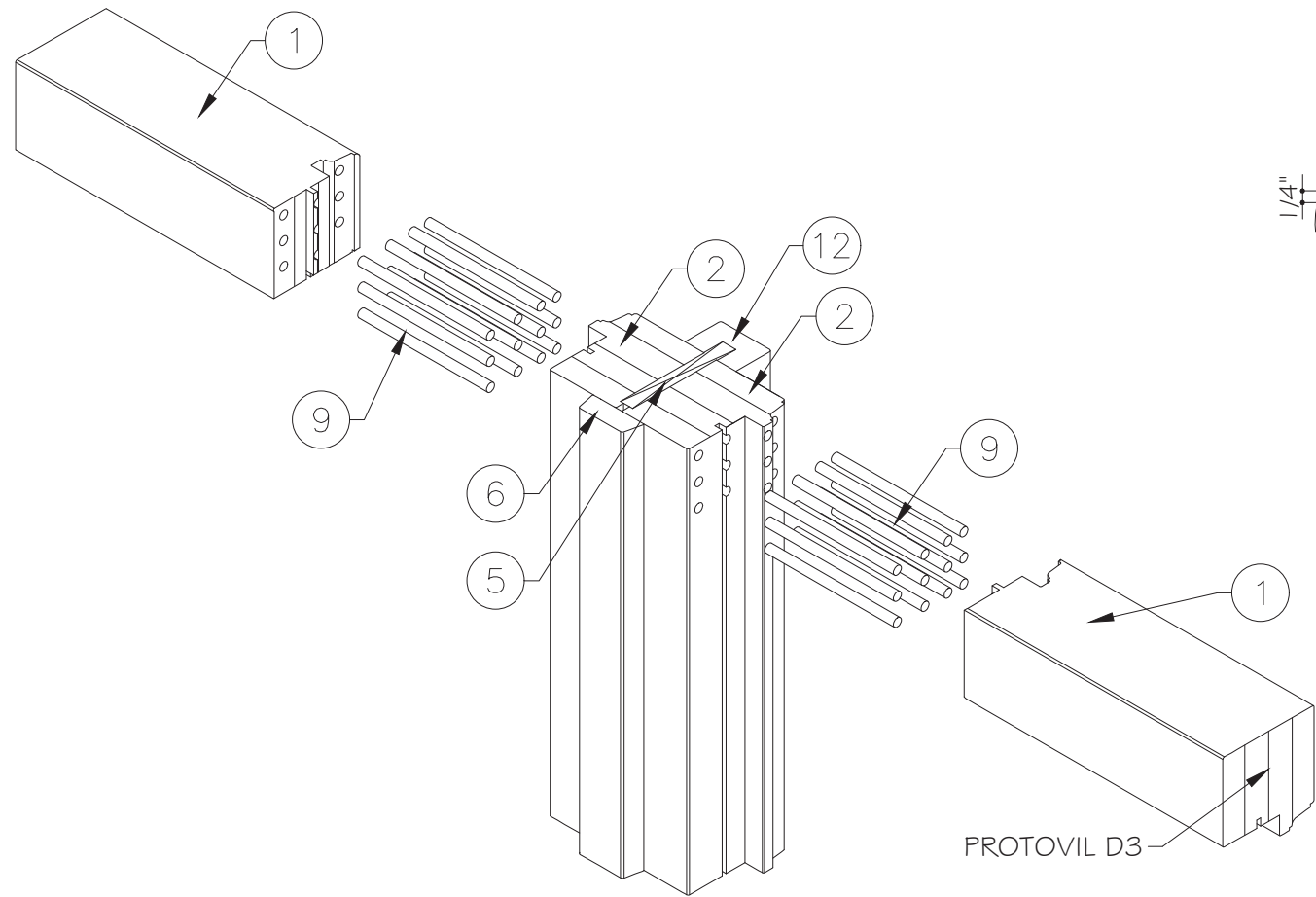
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STATE OF FLORIDA

PROFESSIONAL ENGINEER

March 08th, 2024

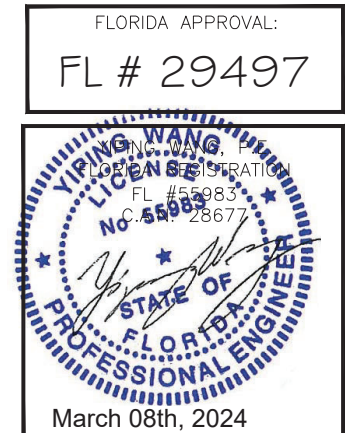
BOM	
DATE	03.08.2024
SCALE	
DRAWN	JAMES
PROJECT	MCY18-181
DRAWING NO.	
AD18-41	
08 OF 09	



ARCHED HEADER WOOD FRAME
ASSEMBLY DETAIL

TYPICAL MULLION WOOD FRAME
ASSEMBLY DETAIL

TYPICAL CORNER WOOD FRAME
ASSEMBLY DETAIL



REVISIONS	
NO	DATE DESCRIPTION
R2	03.08.2024 FEB 2023

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09 OF 09	