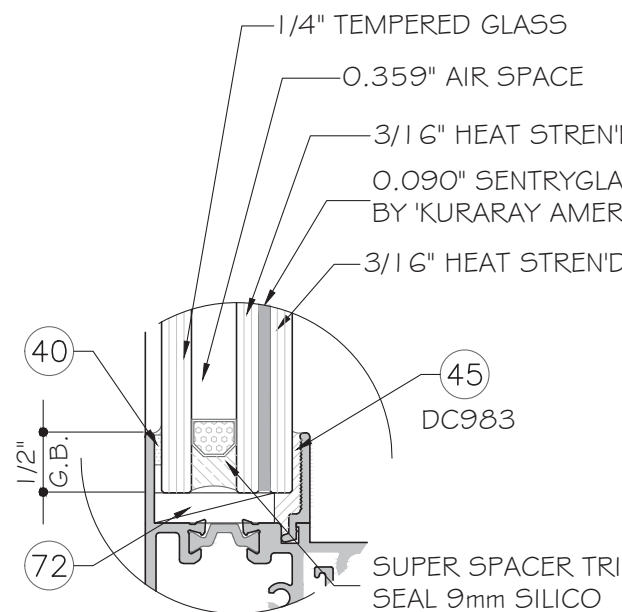
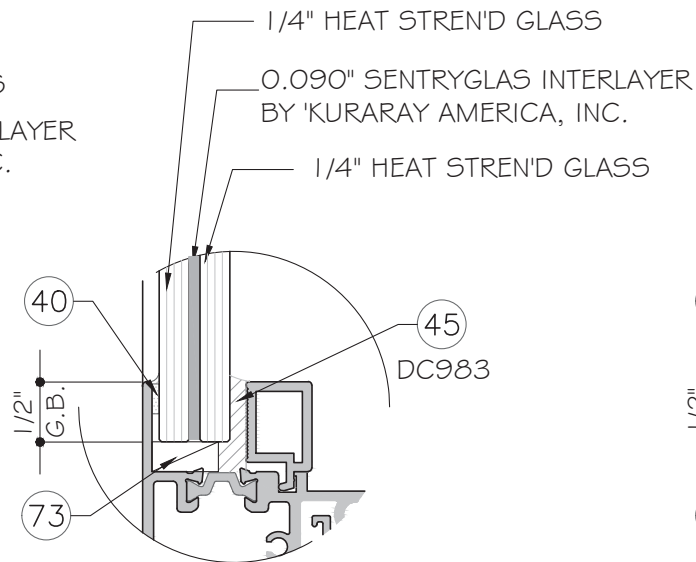


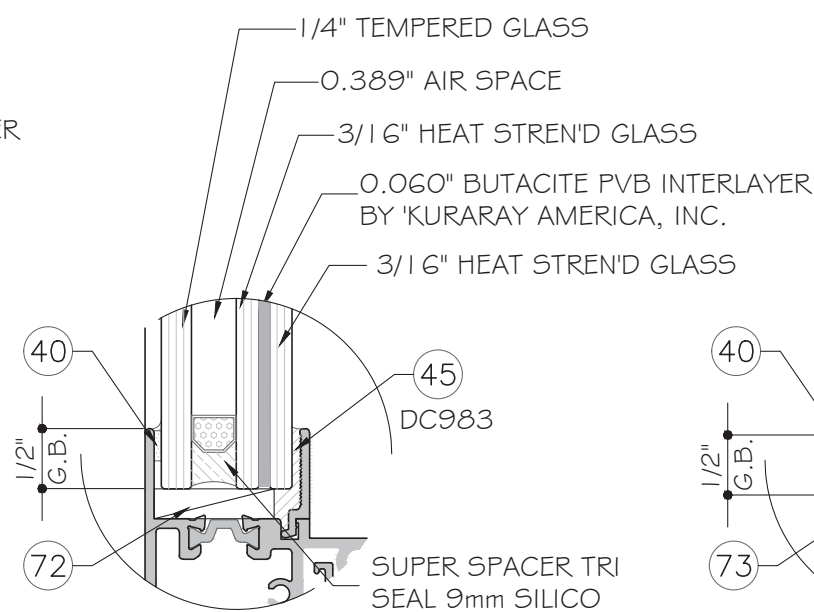
NR ARCHITECTURAL PRODUCTS, INC.
3500 SINGLE HUNG WINDOWS - L.M.I. & S.M.I.



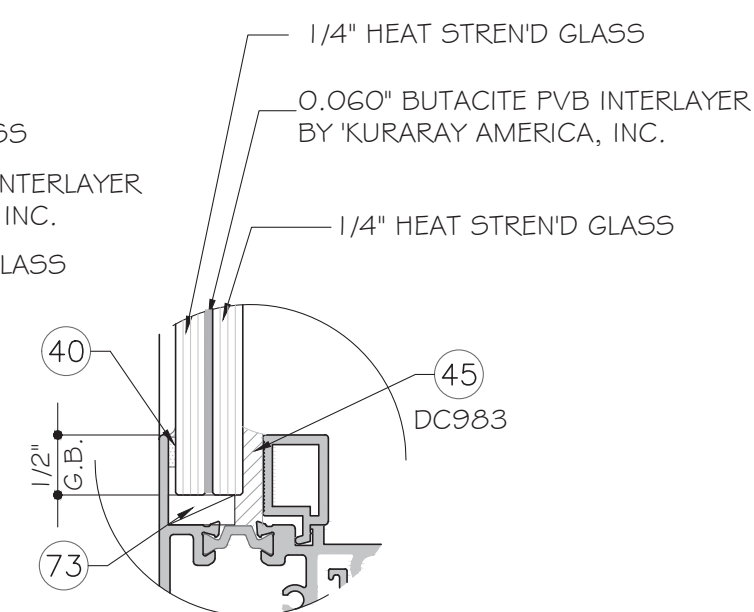
G1 GLASS TYPE 'G1' (L.M.I.)
1 1/16" NOMINAL OVERALL



G3 GLASS TYPE 'G3' (L.M.I.)
9/16" NOMINAL OVERALL



G2 GLASS TYPE 'G2' (S.M.I.)
1 1/16" NOMINAL OVERALL



G4 GLASS TYPE 'G4' (S.M.I.)
9/16" NOMINAL OVERALL

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION / 8TH EDITION FLORIDA BUILDING CODE (2020 / 2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR LARGE AND SMALL MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. 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 7TH EDITION / 8TH EDITION FLORIDA BUILDING CODE (2020 / 2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY N.R. ARCHITECTURAL GROUP 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 7-16 / 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.

USE CHARTS AS FOLLOWS.

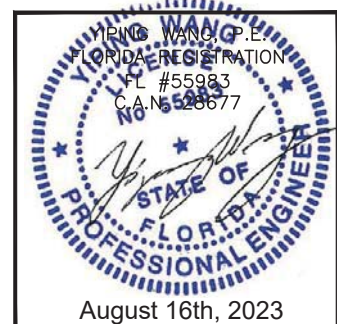
- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16 / ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 FOR MAX SIZE OF THE WINDOW & ALLOWABLE DESIGN LOAD FOR SINGLE CASEMENT AND CASEMENT WITH MULLION IN BETWEEN

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

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	
	SECTION NUMBER
	SHEET NUMBER

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:
FL#29111.1



NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.

NR ARCHITECTURAL PRODUCTS, INC.

4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407

TEL. (561)-844-1121

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE.301

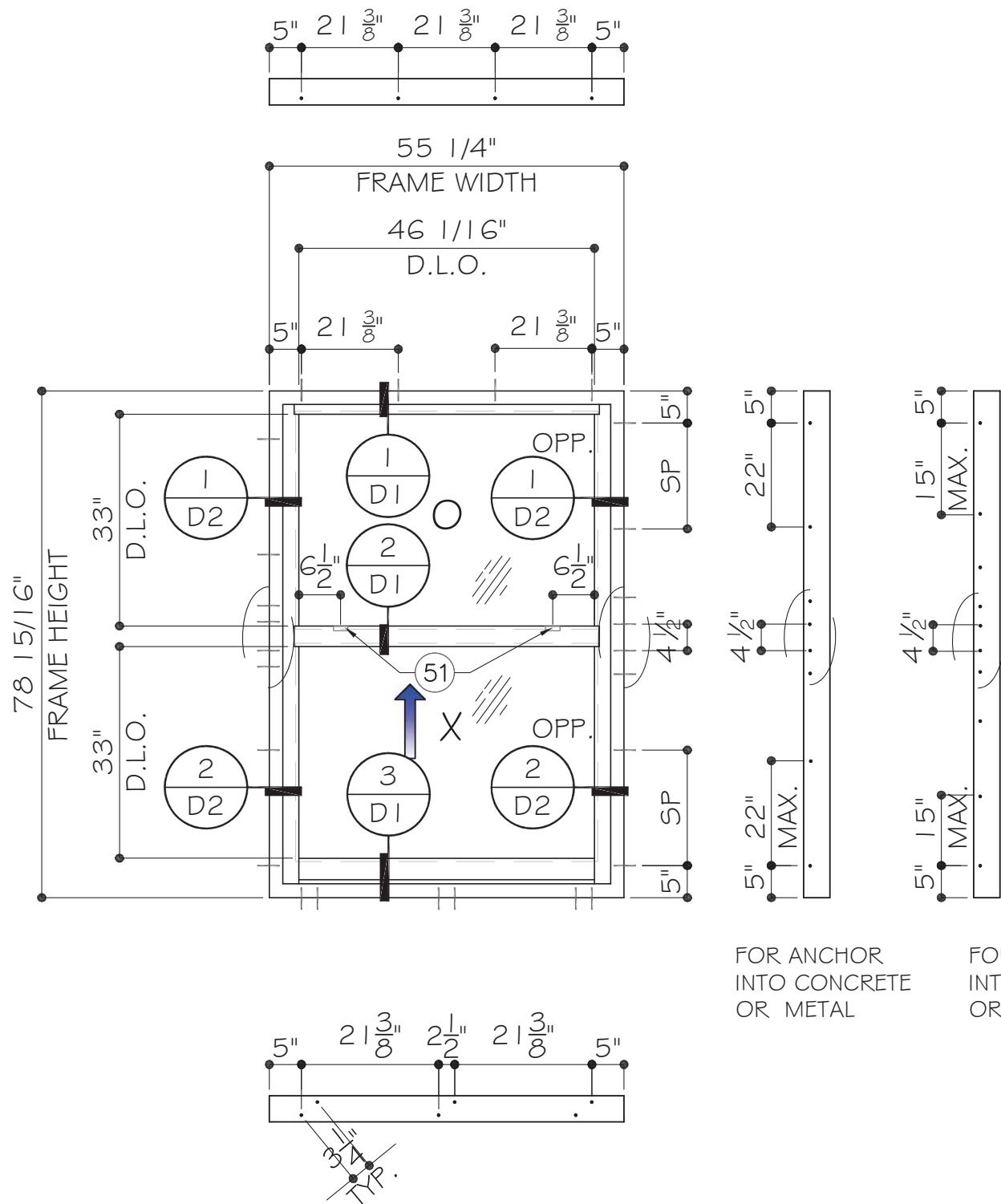
MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

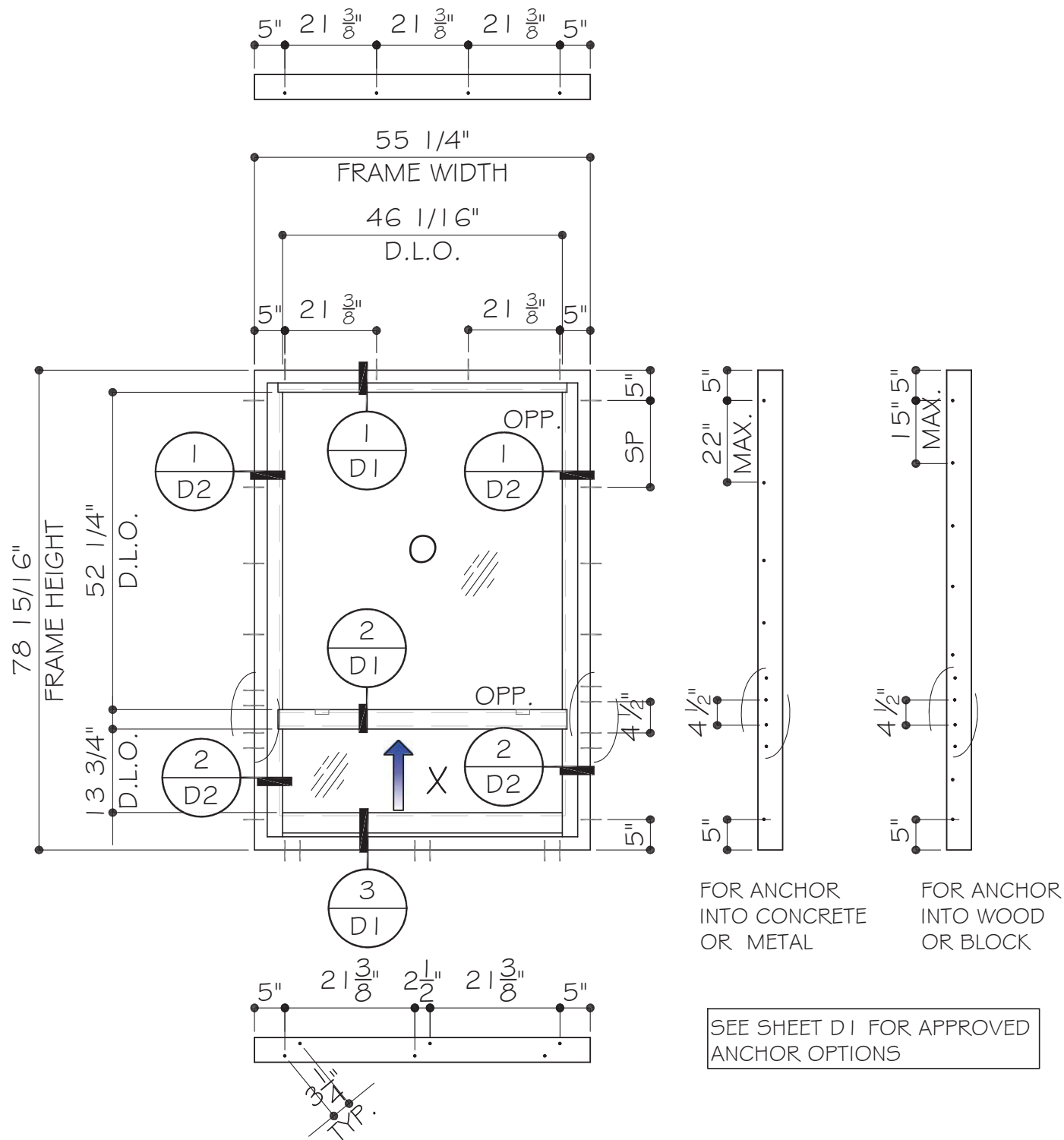
mcy@mcyengineering.com

Drawn Date	Scale	Rev. No.	Date	Description
08.11.2023		R3	08.11.2023	FBC 2023
DRAWING NO. AD19-02				
COVER				
Sheet No. 1 OF 21				



FOR ANCHOR INTO CONCRETE OR METAL

FOR ANCHOR INTO WOOD OR BLOCK



FOR ANCHOR INTO CONCRETE OR METAL

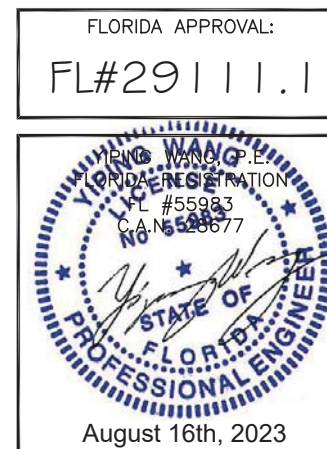
FOR ANCHOR INTO WOOD OR BLOCK

SEE SHEET D1 FOR APPROVED ANCHOR OPTIONS

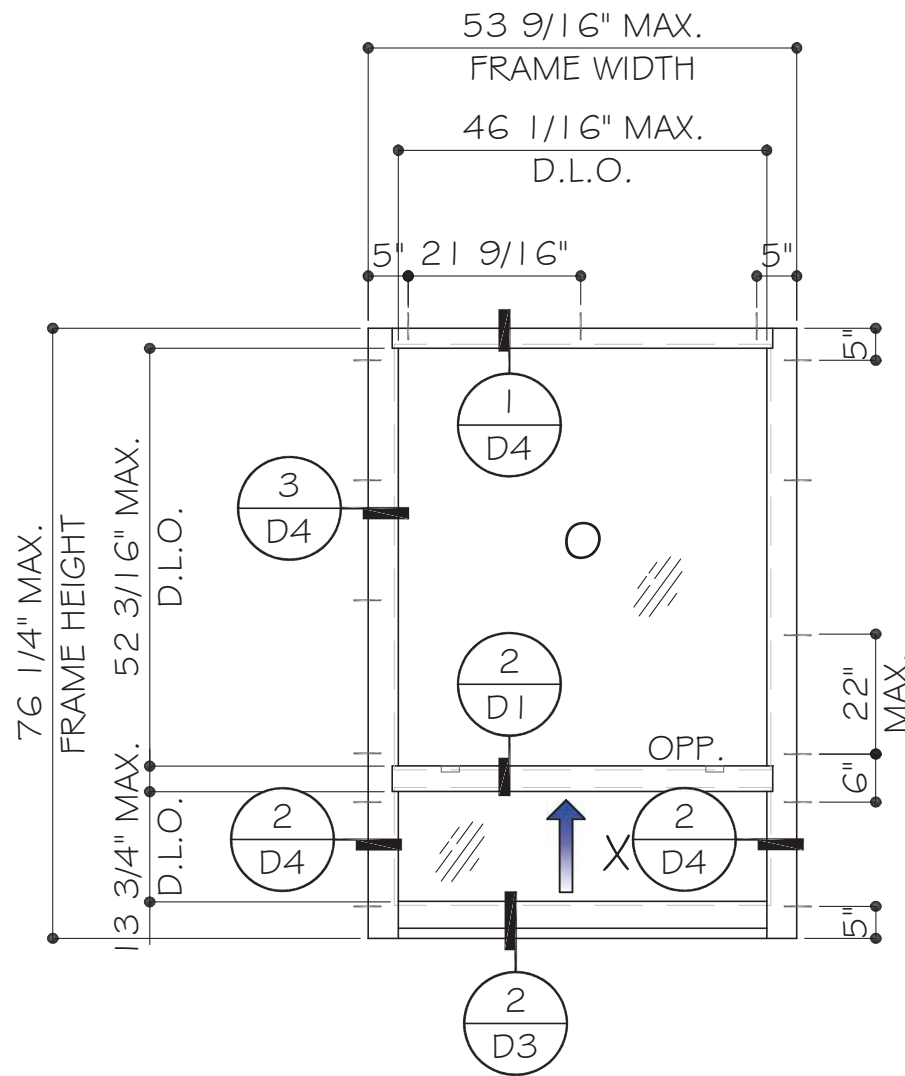
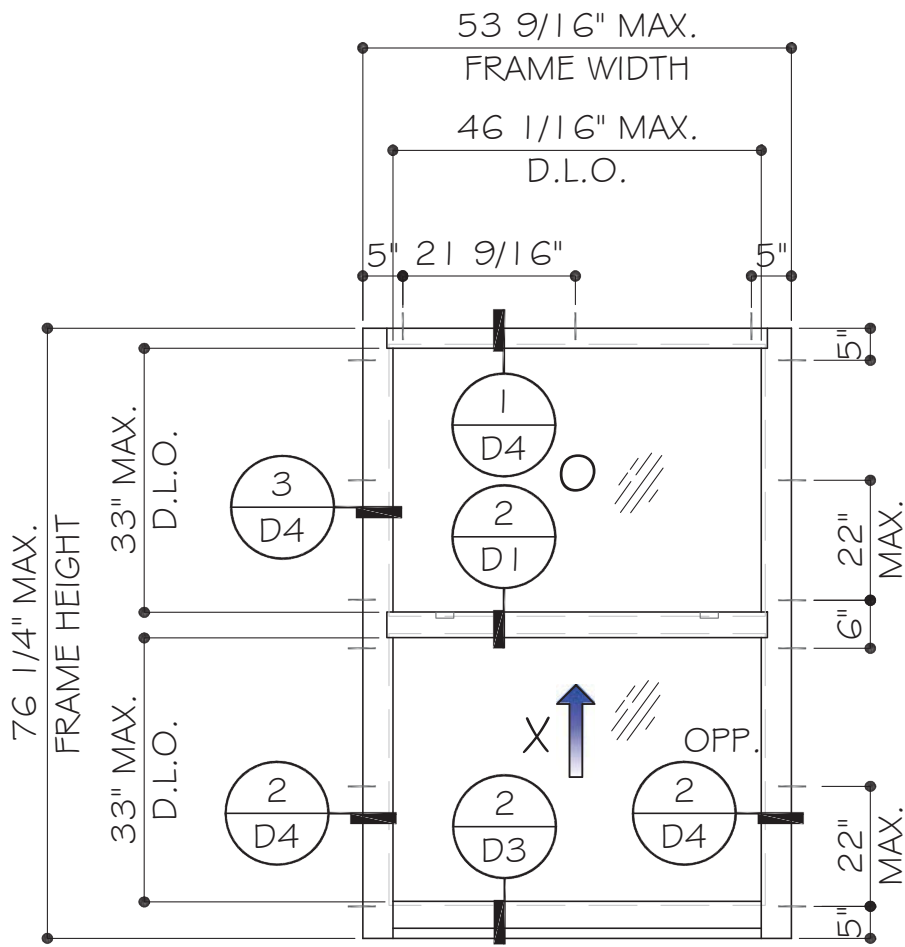
TYPICAL EXTERIOR ELEVATIONS (W/ RECEPTOR)

TESTED SIZE SHOWN FOR SIZE OTHER THAN TESTED,
SEE SHEET E6 FOR APPROVED LOAD

NOTE:
GLASS CHECKED BASED ON ASTM E1300-09 (3 SEC.GUSTS).
LMI - USE GLASS TYPE "G1" OR "G3"
SMI- USE GLASS TYPE "G2" OR "G4".



Rev. No.	Date	Description
R3	08.11.2023	FBC 2023
Drawn Date	08.11.2023	Scale
DRAWING NO.		
AD19-02		
E1		
Sheet No.		
2 OF 21		

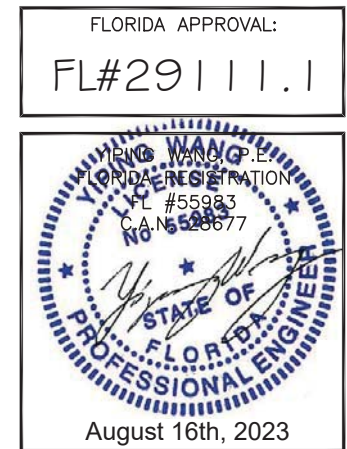


TYPICAL EXTERIOR ELEVATIONS (W/ F-CLIP)

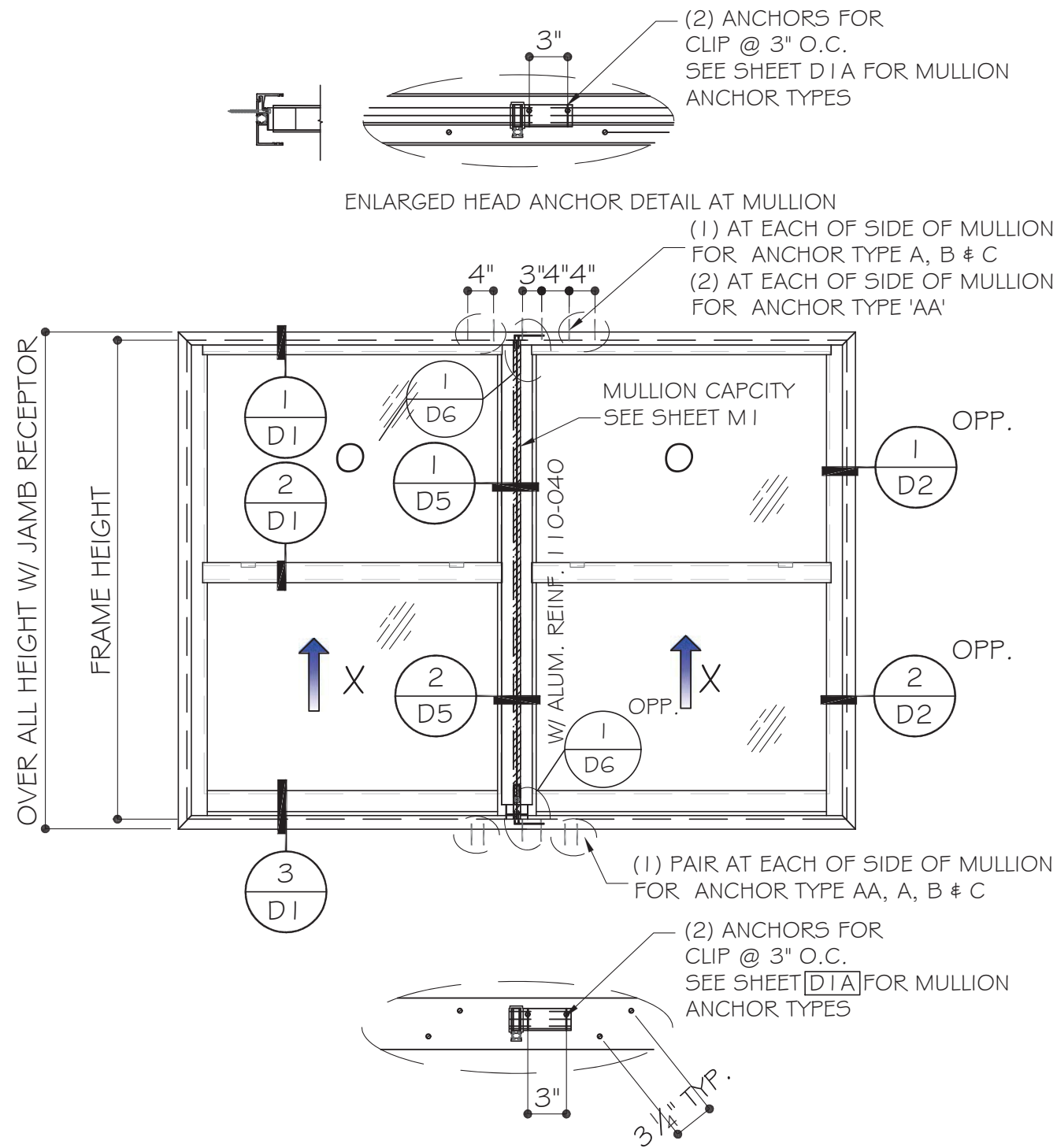
TESTED SIZE SHOWN FOR SIZE OTHER THAN TESTED,
SEE SHEET E6 FOR APPROVED LOAD

SEE SHEET D7 FOR APPROVED
ANCHOR OPTIONS

NOTE:
GLASS CHECKED BASED ON ASTM E1300-09 (3 SEC.GUSTS).
LMI - USE GLASS TYPE "G1" OR "G3"
SMI- USE GLASS TYPE "G2" OR "G4".



Rev. No.	Date	Description
R3	08.11.2023	FBC 2023
Drawn Date 08.11.2023 Scale		
DRAWING NO. AD19-02		
E3		
Sheet No. 4 OF 21		

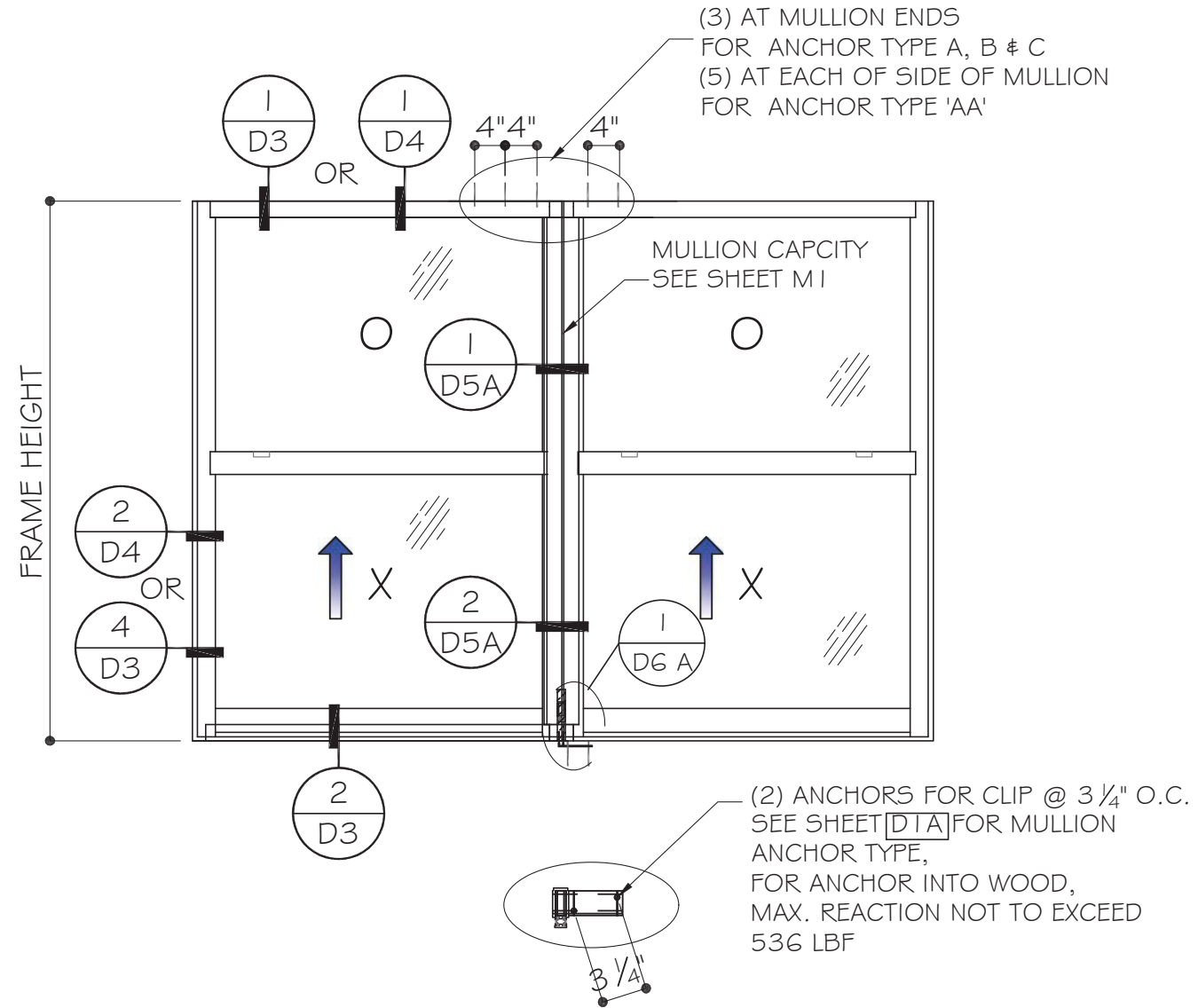


ENLARGED SILL ANCHOR DETAIL AT MULLION
ANCHOR AT MULLION ENDS-HEAD & SILL
FRAME ANCHORED W/ RECEPTORS

SEE SHEET D1 FOR APPROVED ANCHOR OPTIONS FOR FRAME

SINGLE HUNG - SINGLE HUNG WINDOW

FOR MULLION CAPACITIES, SEE SHEET M1



ANCHOR AT MULLION ENDS-HEAD & SILL
DIRECT ANCHOR OR ANCHOR THRU F-CLIP

SEE SHEET D7 FOR APPROVED ANCHOR OPTIONS FOR FRAME

FLORIDA APPROVAL:
FL#29111.1

YOUNG WANG P.E.
FLORIDA REGISTRATION
FL #55983
CAN #528677

August 16th, 2023

NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.

NR ARCHITECTURAL PRODUCTS, INC.

4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407

TEL. (561)-844-1121

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE.301

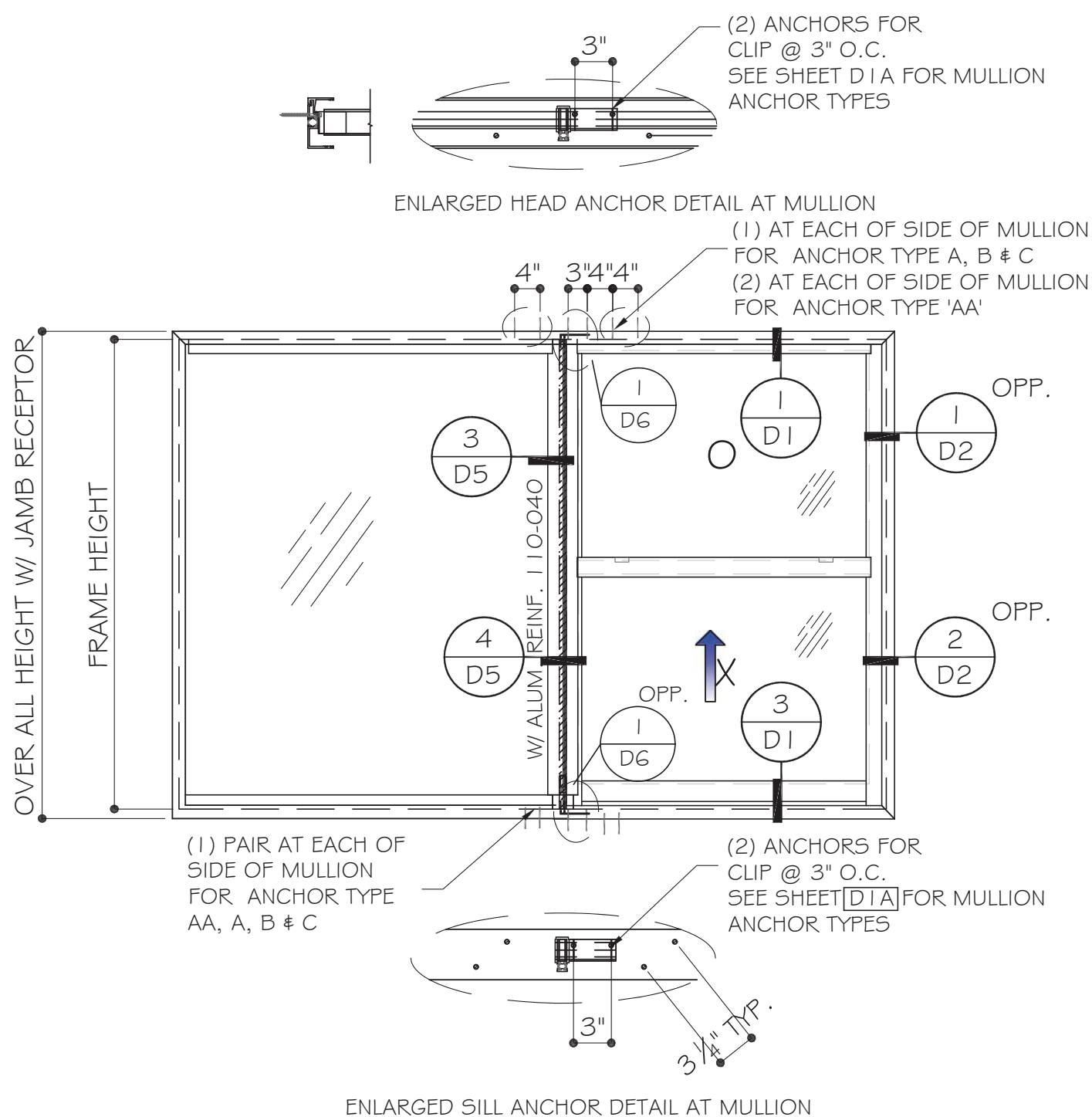
MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

Rev. No.	Date	Description
R3	08.11.2023	FBC 2023
Drawn Date	08.11.2023	Scale AS SHOWN
DRAWING NO. AD19-02		
E4		
Sheet No. 5 OF 21		



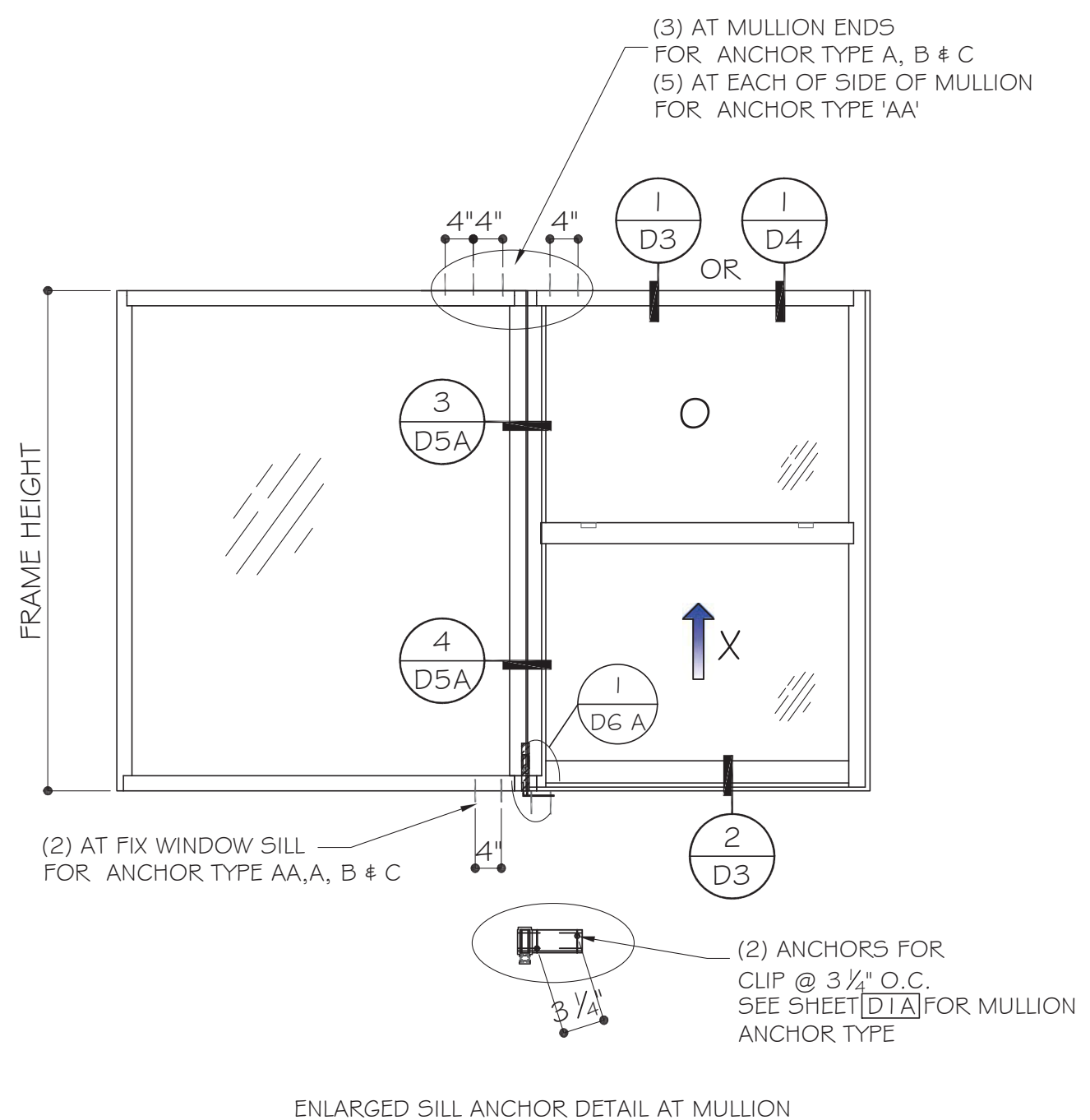
ANCHOR AT MULLION ENDS-HEAD & SILL

FRAME ANCHORED W/ RECEPTORS

SEE SHEET D1 FOR APPROVED ANCHOR OPTIONS FOR FRAME

FIXED WINDOW - SINGLE HUNG WINDOW

FOR SINGLE HUNG WINDOW MULLED WITH FIXED WINDOW, SEE 3500 FIXED WINDOW APPROVAL FOR CAPACITIES



ANCHOR AT MULLION ENDS-HEAD & SILL

DIRECT ANCHOR OR ANCHOR THRU F-CLIP

SEE SHEET D7 FOR APPROVED ANCHOR OPTIONS FOR FRAME

FLORIDA APPROVAL:

FL#29111.1

YOUNG WANG P.E.
FLORIDA REGISTRATION
FL #55983
CA# 1528677

August 16th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.

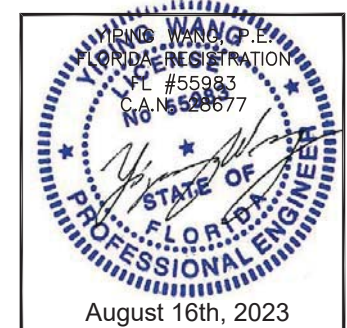
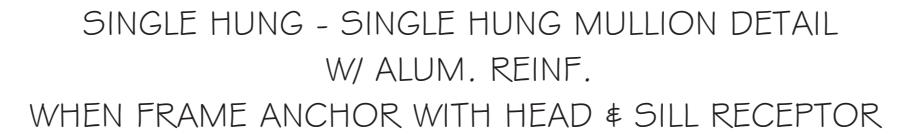
NR ARCHITECTURAL PRODUCTS, INC.
4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407
TEL. (561)-844-1121

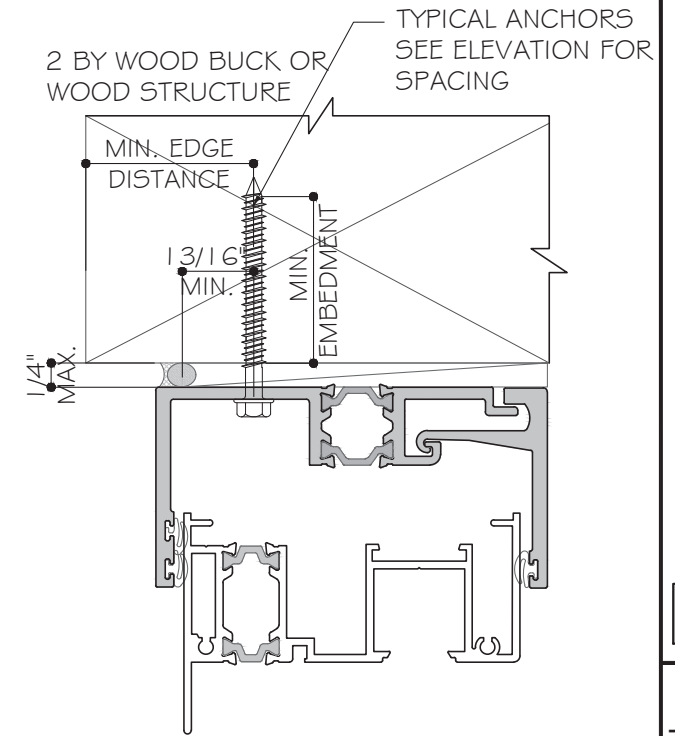
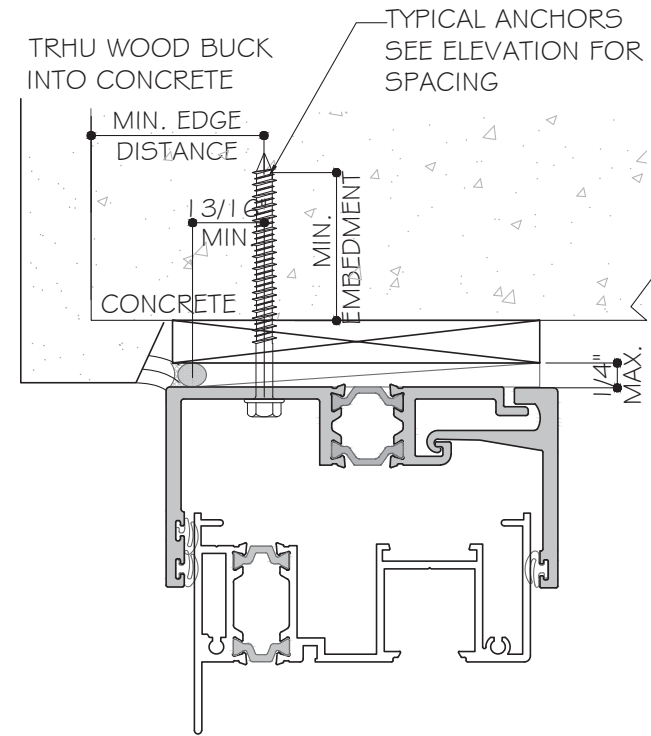
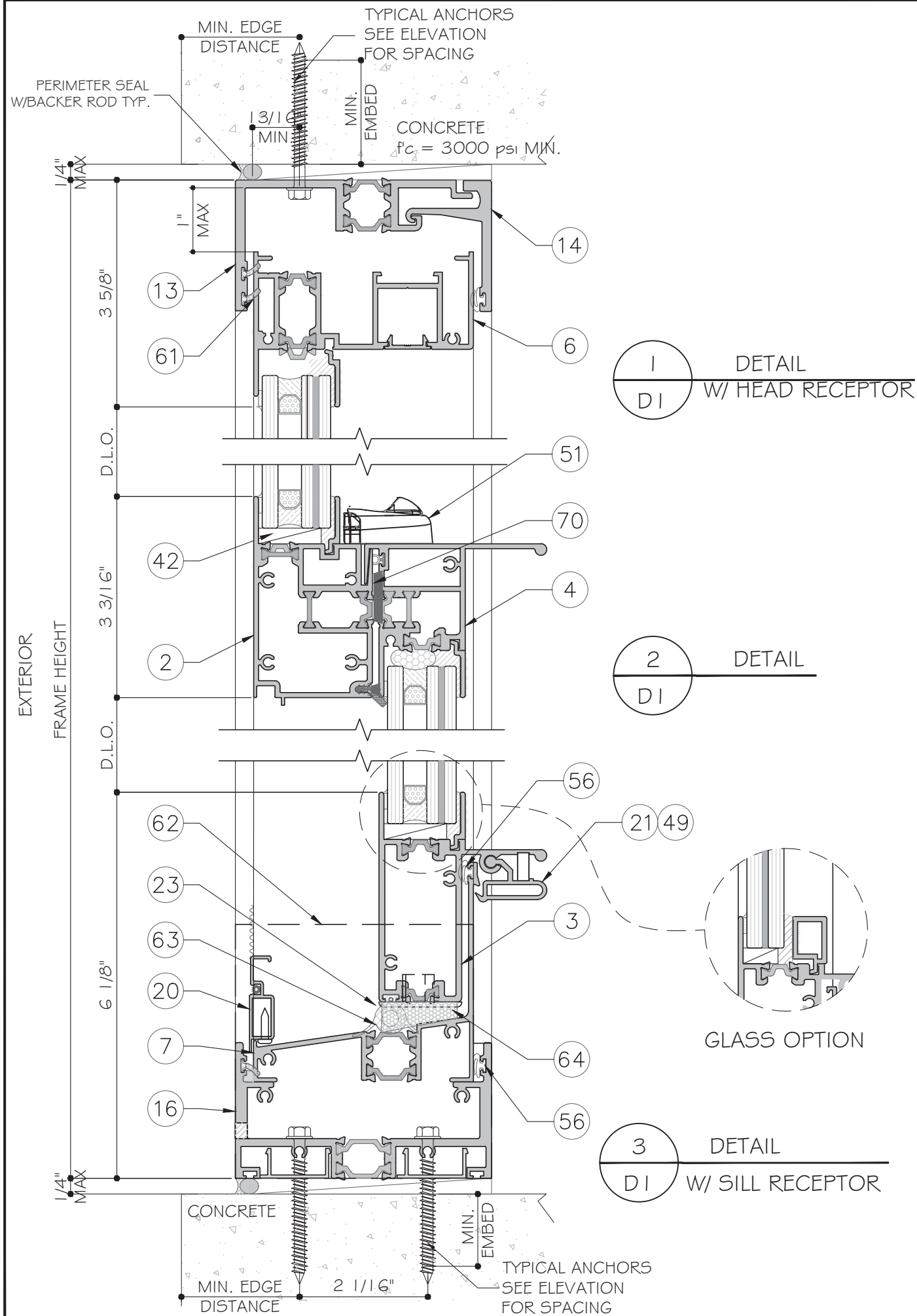
Rev. No.	Date	Description
R3	08.11.2023	FGC 2023
Drawn Date	08.11.2023	Scale AS SHOWN
DRAWING NO.		
AD19-02		
E5		
Sheet No.		
6 OF 21		

SINGLE HUNG - SINGLE HUNG WINDOW MULLION MULLION CAPACITY - PSF			
FRAME WIDTH	FRAME HEIGHT	W OR W/O REINF.	
(IN)	(IN)	+/(PSF)	-/(PSF)
48	66	65	75
54		65	75
60		65	75
42	72	65	75
48		65	75
54		65	75
42	76	65	75
48		65	75
53 3/8	76 1/4	65	75
36	78	65	75
42		65	75
48		65	75
30	84	65	75
36		65	75
42		65	72
30	90	65	75
36		65	69
42		59	59
30	96	65	68
36		56	56



MULLION SECTION PROPERTIES





1 BY OR 2 BY WOOD BUCKS AND METAL STRUCTURE NOT BY N.R. ARCHITECTURAL GROUP MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS FOR FRAME WITH RECEPTOR:
(SEE ELEVATIONS FOR SPACING)

TYPE AA: 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
1/4" DIA. TAPCON BY 'ITW' ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH
1-1/2" MIN. PENETRATION INTO WOOD
OR THRU WOOD INTO CONCRETE

TYPE A: 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
DIRECTLY INTO CONCRETE OR MASONRY
1-3/4" MIN. EMBED INTO CONCRETE OR GROUT FILLED BLOC

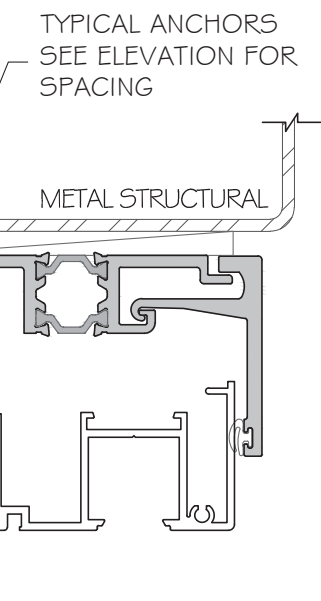
TYPE B: 1/4" DIA. TAPCON BY 'ITW' ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE ONLY

TYPE C: #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
STEEL: 1/8" THK. MIN. (A36 MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

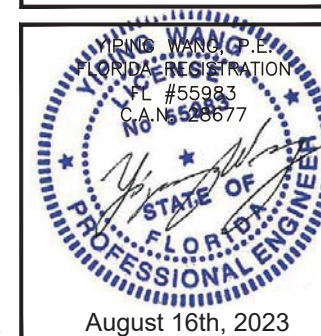
TYPICAL EDGE DISTANCE
INTO CONCRETE AND GROUT FILLED BLOCK = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMB SG=0.55 MIN.
CONCRETE AT HEAD, SILL & JAMB $f'_c = 3000 \text{ PSI}$
GROUT FILLED BLOCK $f'_c = 2000 \text{ PSI}$ MIN. AT JAMB ONLY

FRAME W/ RECEPTOR



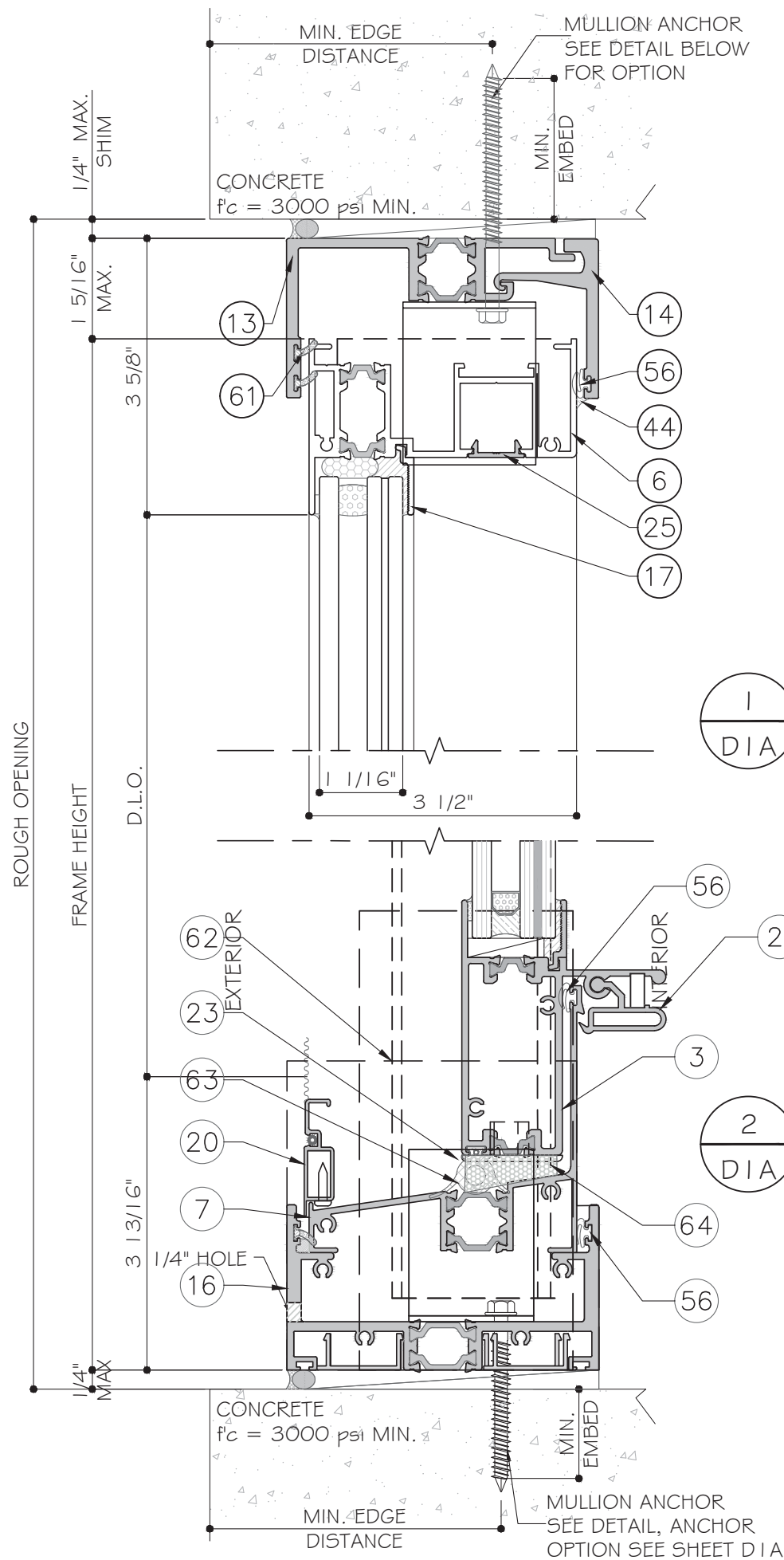
FLORIDA APPROVAL:
FL#29111.1



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

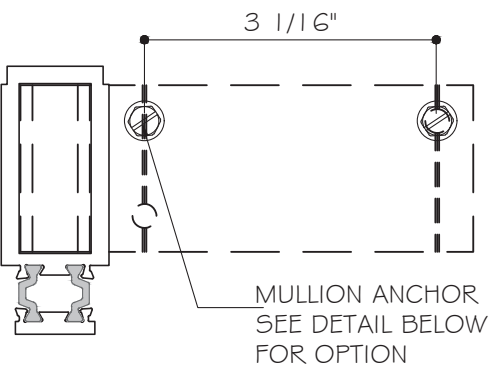
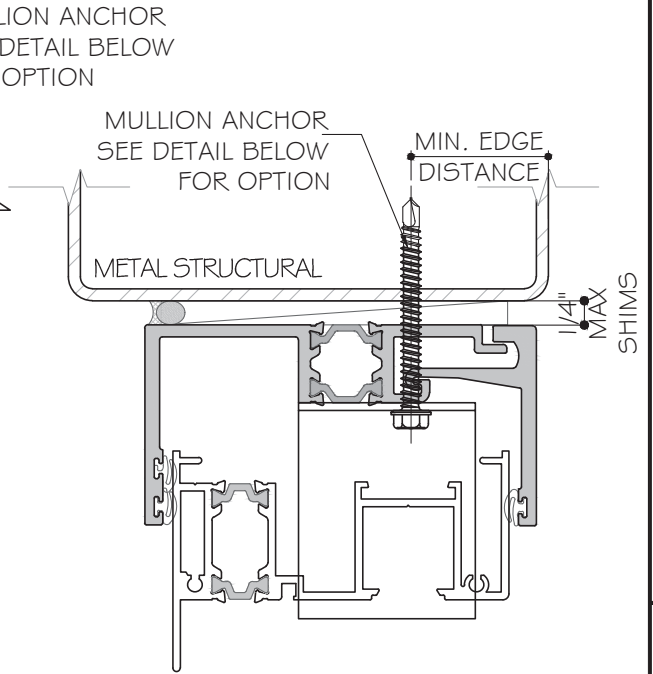
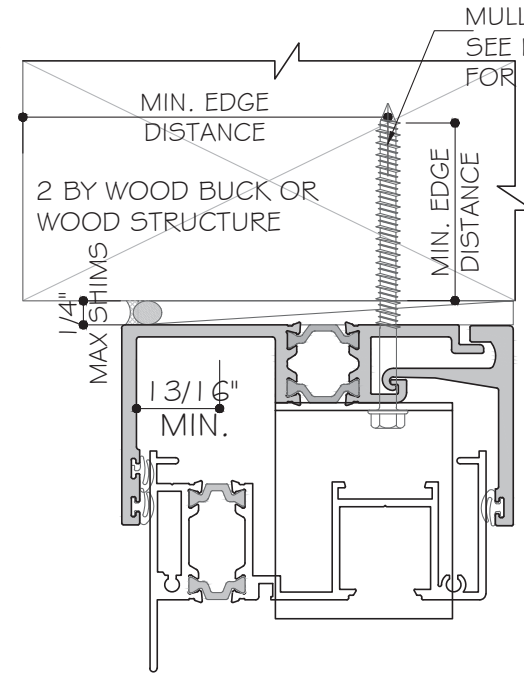
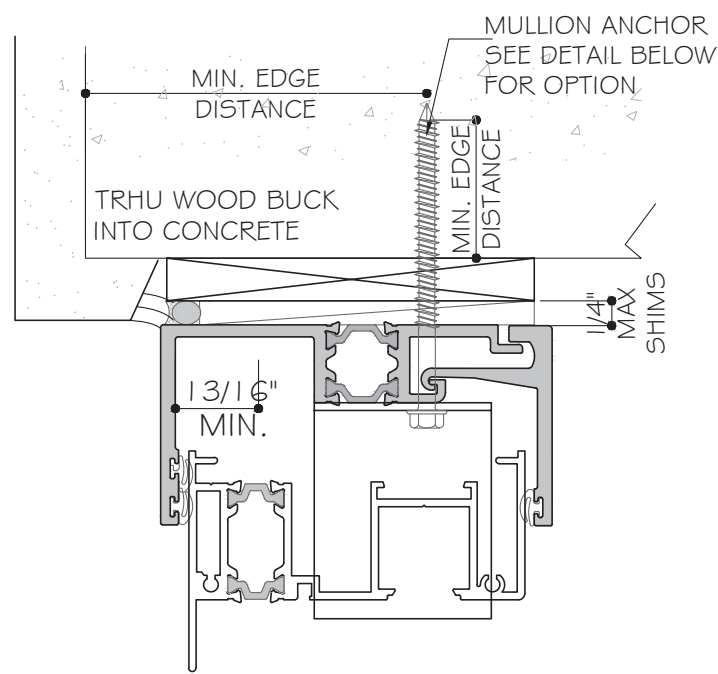
NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.
NR ARCHITECTURAL PRODUCTS, INC.
4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407
TEL: (561)-844-1121

Rev. No.	Date	Description
R3	08.11.2023	FLC 2023
Drawn Date	08.11.2023	Scale
DRAWING NO.		
AD19-02		
D1		
Sheet No.		
9 OF 21		



1 MULLION HEAD ANCHOR
DIA W/ HEAD RECEPTOR

2 MULLION SILL DETAIL
DIA W/ SILL RECEPTOR



MULLION ANCHOR:

TYPE AAM: 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u = 177$ KSI, $F_y = 155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH
1-1/2" MIN. PENETRATION INTO WOOD
OR THRU WOOD INTO CONCRETE

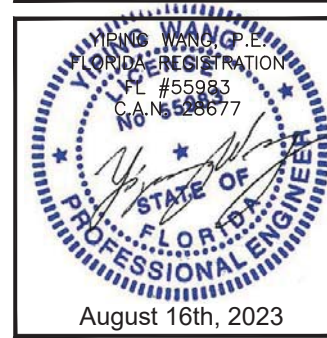
TYPE AM: 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u = 177$ KSI, $F_y = 155$ KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

TYPE CM: #14 TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO METAL STRUCTURES
STEEL: 1/8" THK. MIN. (A36 MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

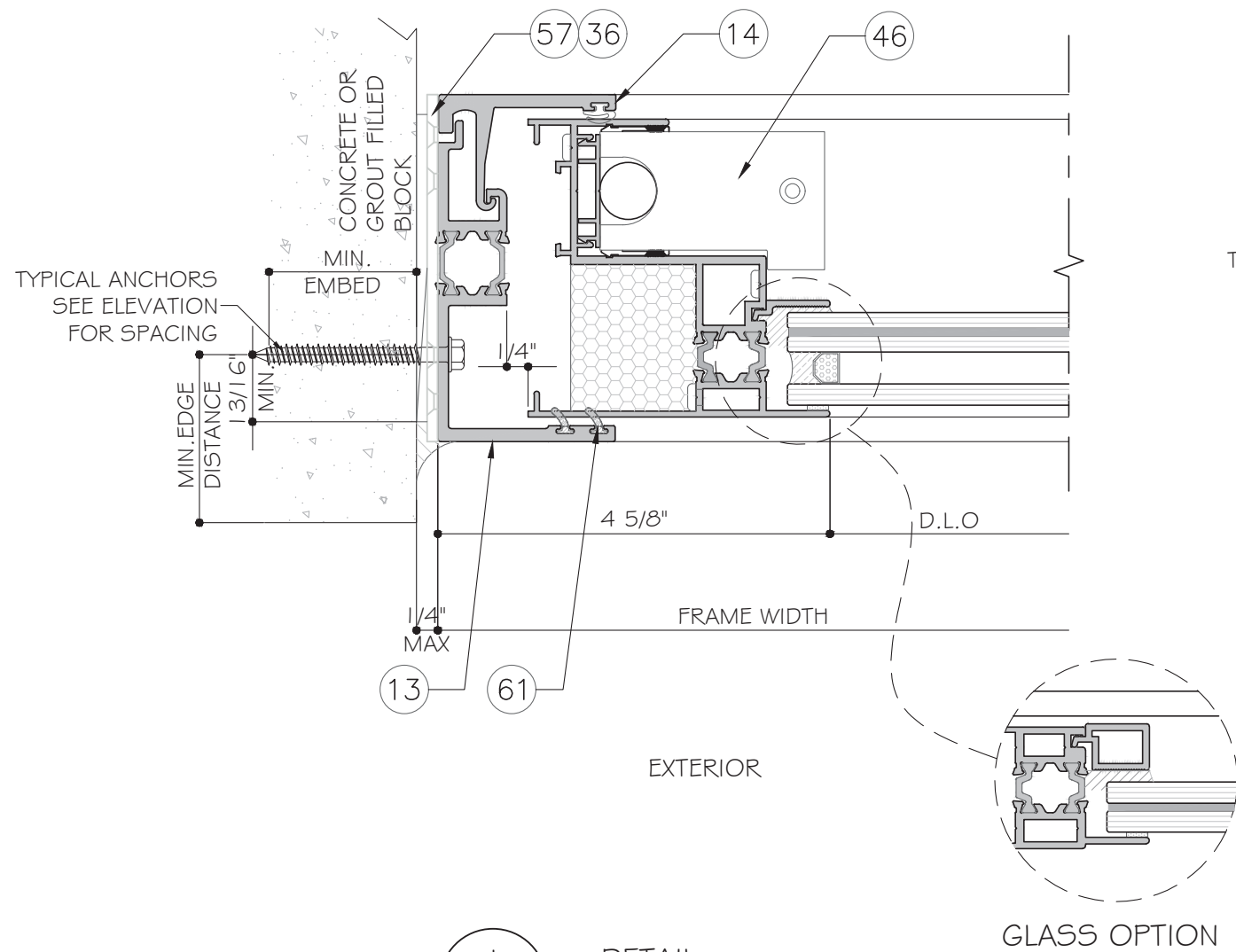
TYPICAL EDGE DISTANCE
INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1 1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMB SG=0.55 MIN.
CONCRETE AT HEAD, SILL & JAMB $f'_c = 3000$ PSI
GROUT FILLED BLOCK $f'_c = 2000$ PSI MIN.

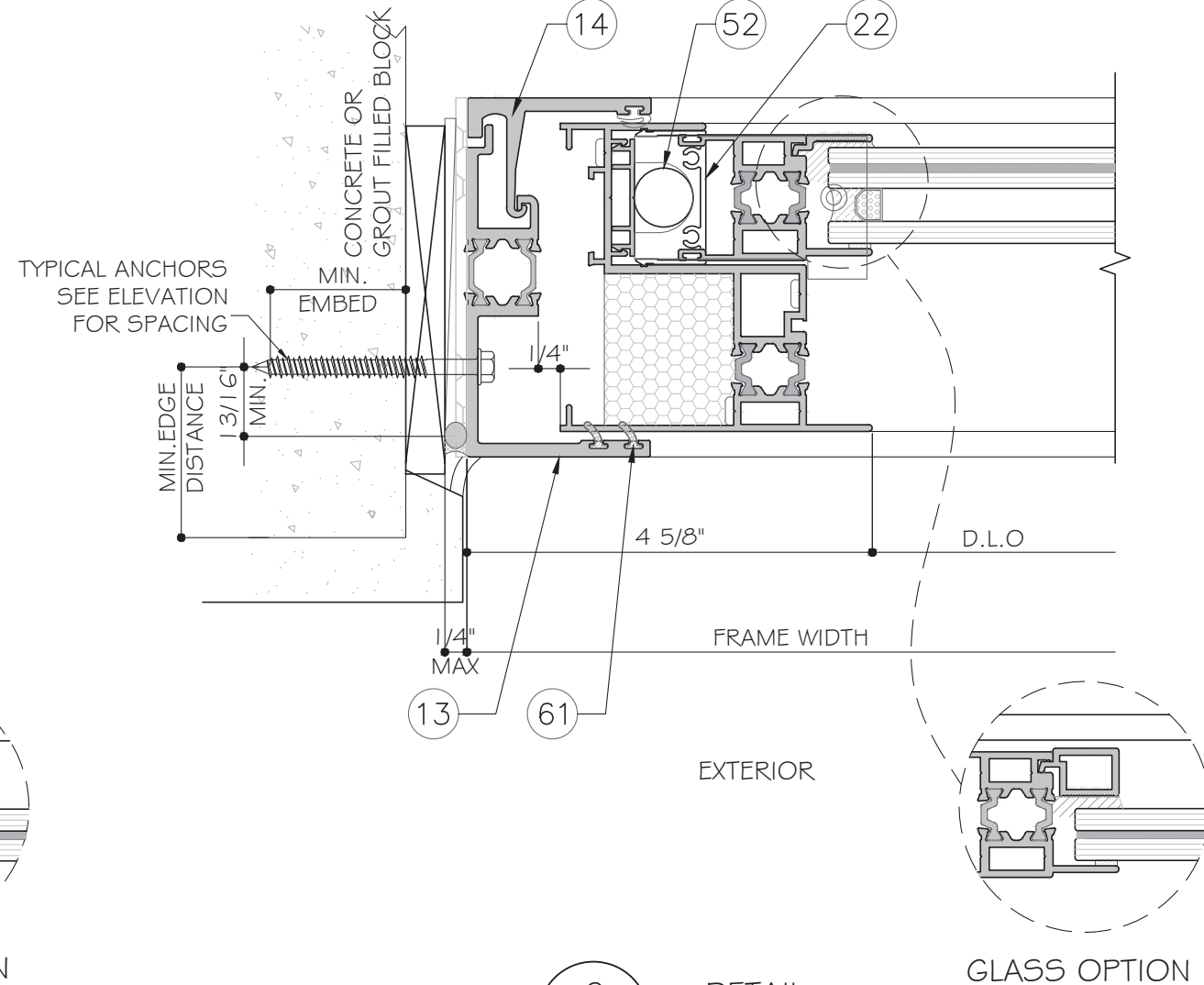
FLORIDA APPROVAL:
FL#29111.1



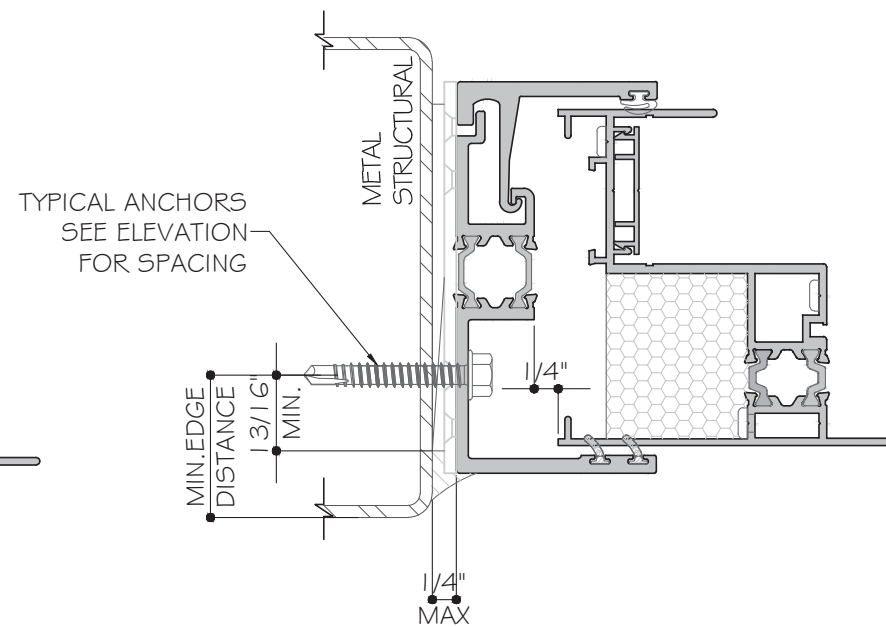
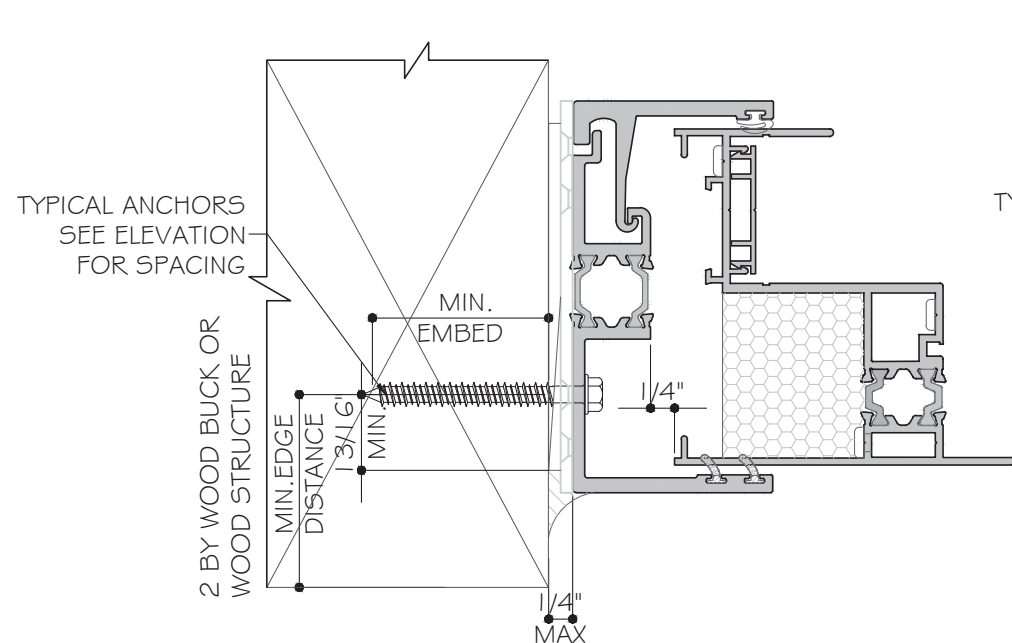
Rev. No.	Date	Description
R3	08.11.2023	FBC 2023
Drawn Date	08.11.2023	Scale
DRAWING NO.		
AD19-02		
D1A		
Sheet No.		
10 OF 21		



1
D2
DETAIL
W/ JAMB RECEPTOR



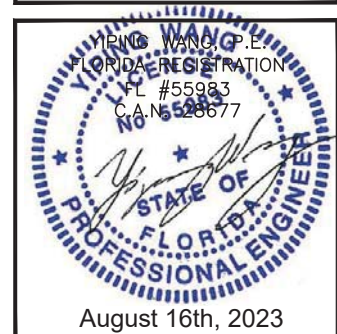
2
D2
DETAIL
W/ JAMB RECEPTOR



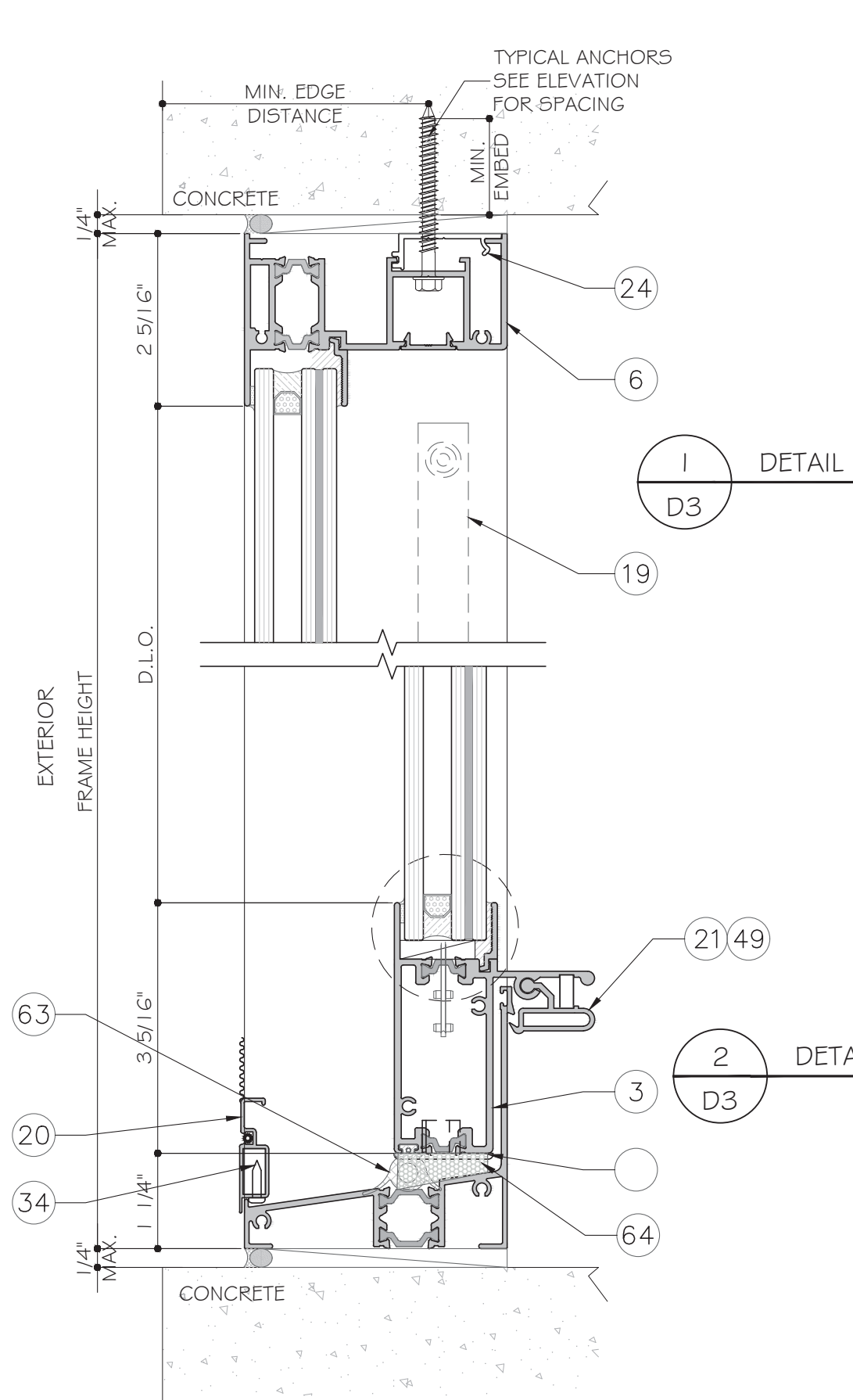
SEE SHEET D1 FOR APPROVED ANCHOR OPTIONS

FRAME W/ RECEPTOR

FLORIDA APPROVAL:
FL#29111.1



Rev. No.	Date	Description
R3	08.11.2023	FGC 2023
Drawn Date	08.11.2023	Scale
DRAWING NO.		
AD19-02		
D2		
Sheet No.		
11 OF 21		



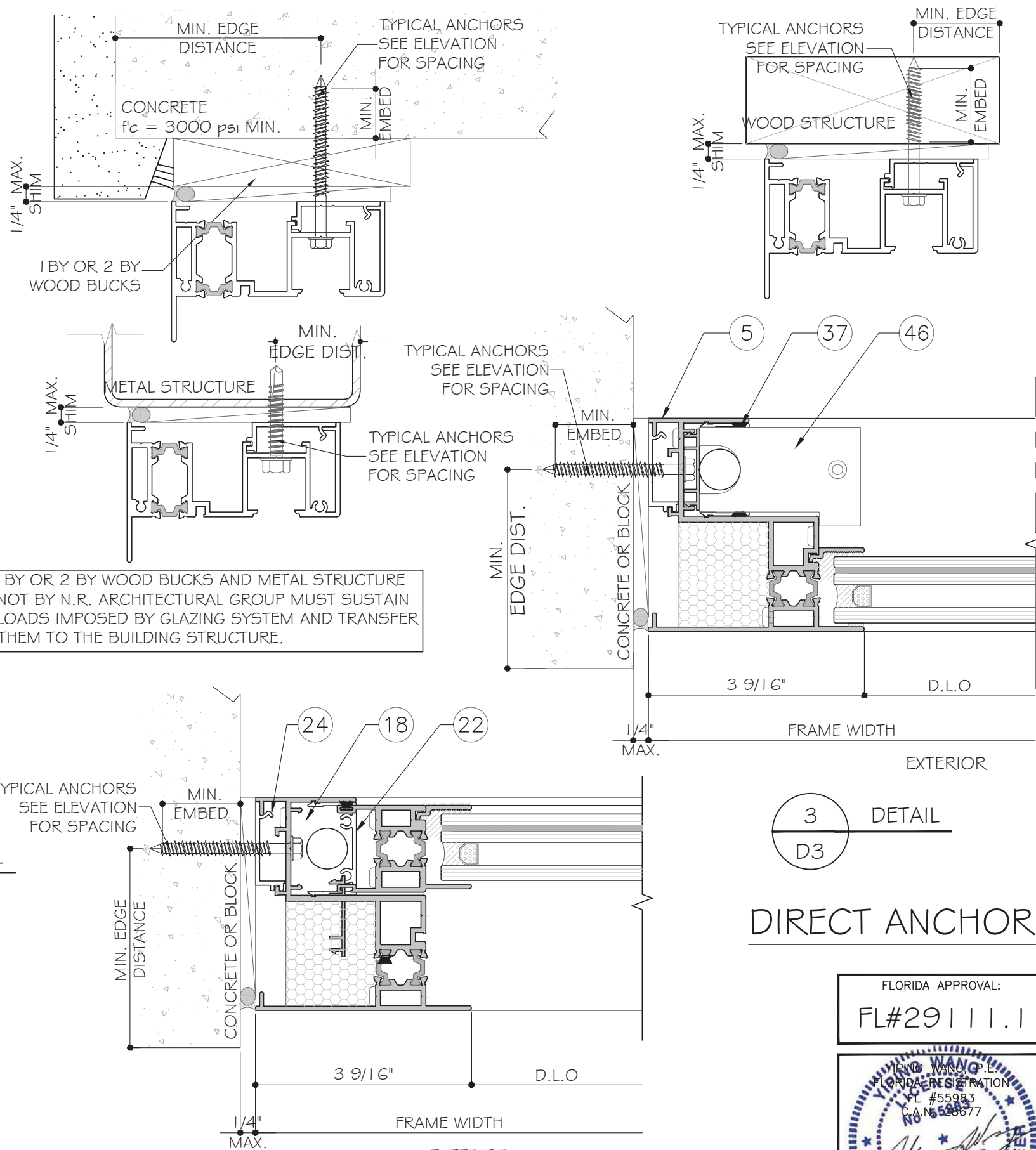
SEE SHEET D7 FOR APPROVED
FRAME ANCHOR OPTIONS

1
D3
DETAIL

2
D3
DETAIL

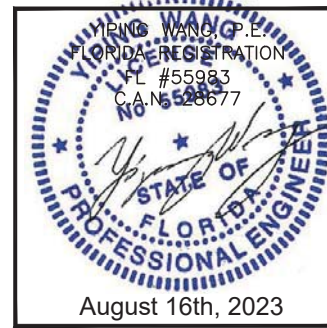
4
D3
DETAIL

3
D3
DETAIL



DIRECT ANCHOR

FLORIDA APPROVAL:
FL#29111.1



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

NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.

NR ARCHITECTURAL PRODUCTS, INC.
4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407
TEL. (561)-844-1121

Rev. No.	Date	Description
R3	08.11.2023	FGC 2023

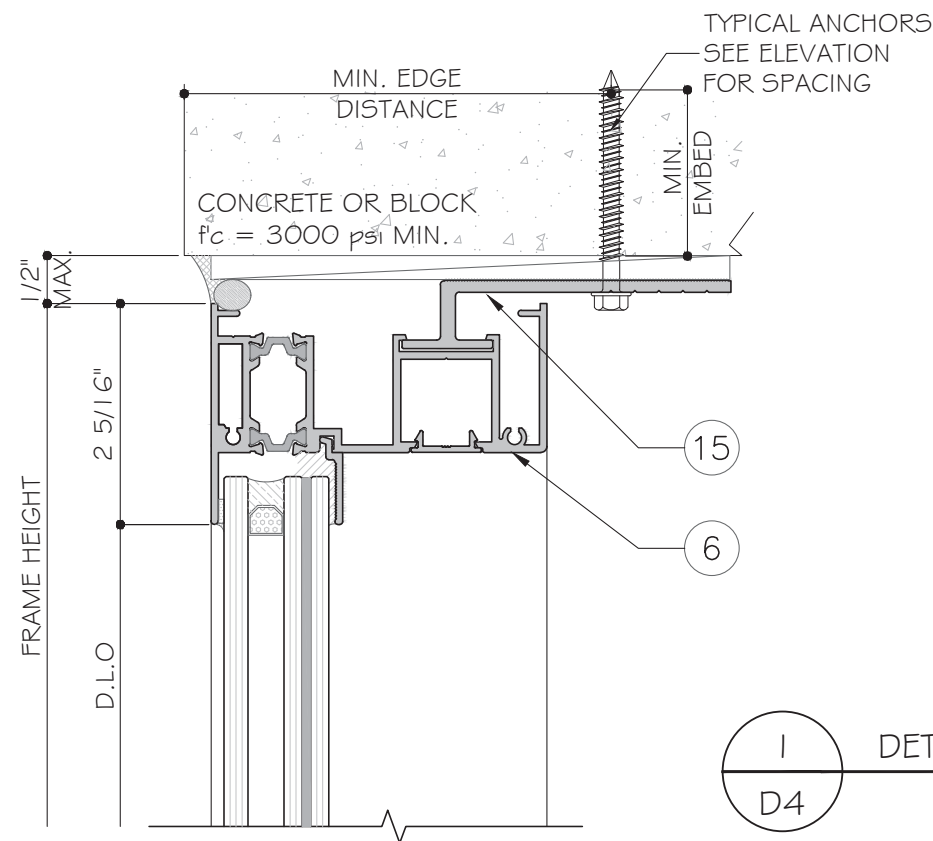
Drawn Date: 08.11.2023

Scale:

DRAWING NO.
AD19-02

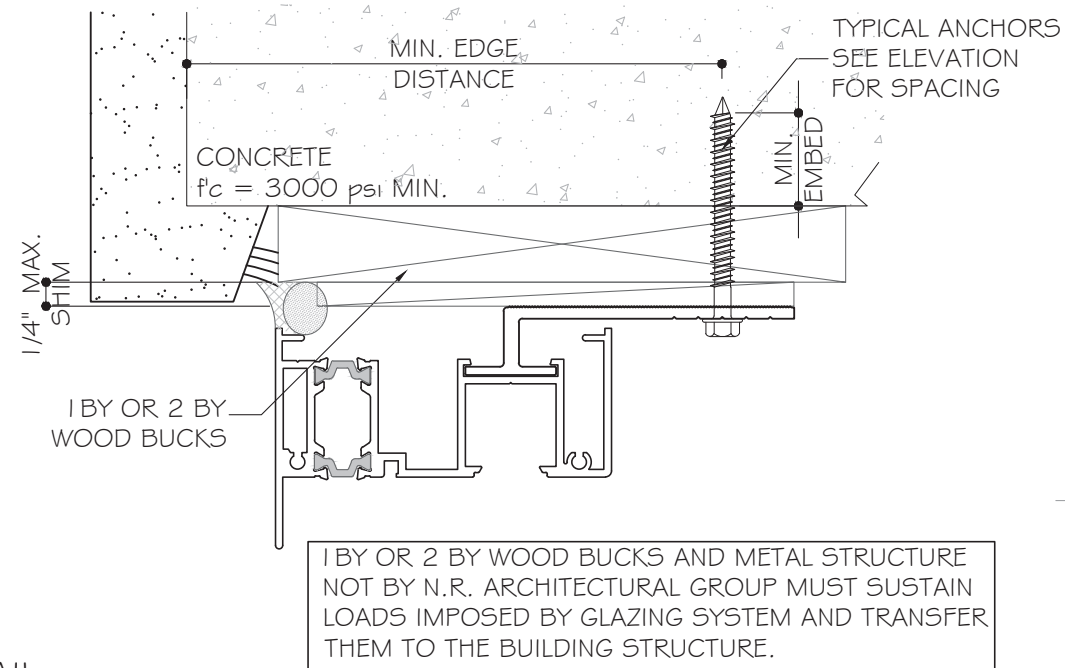
Sheet No.
D3

12 OF 21



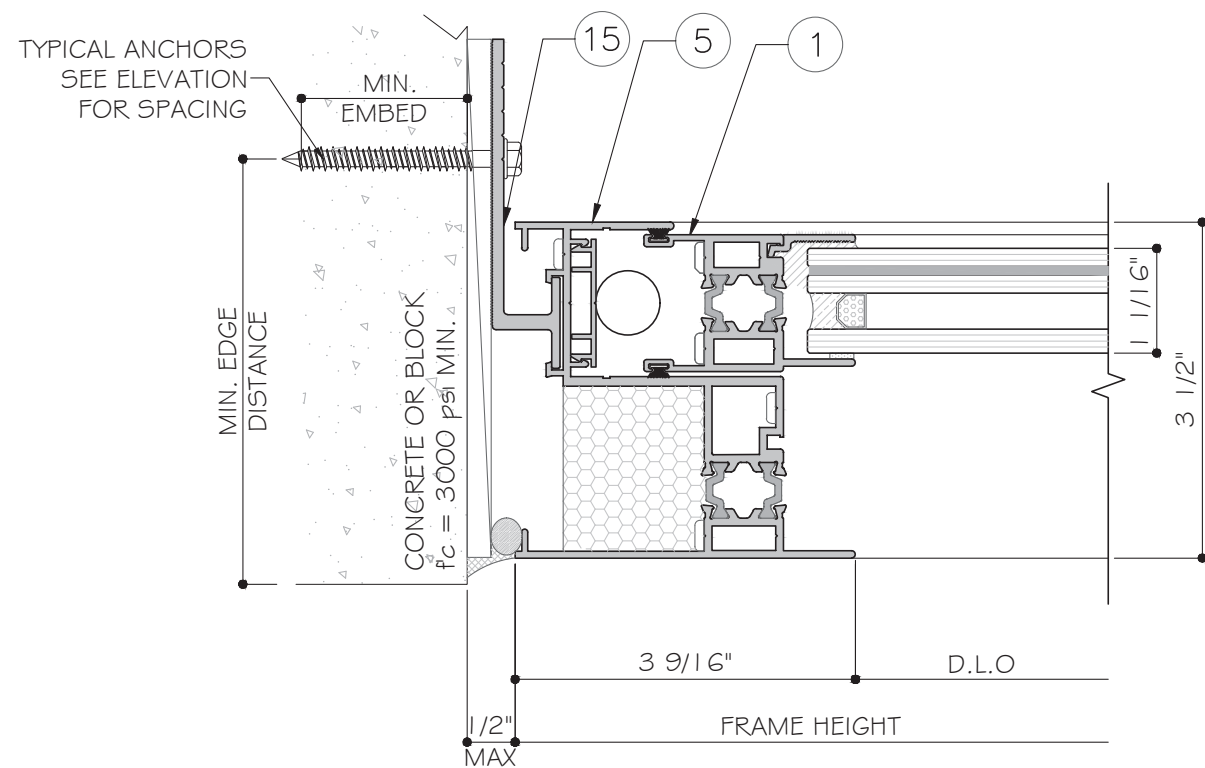
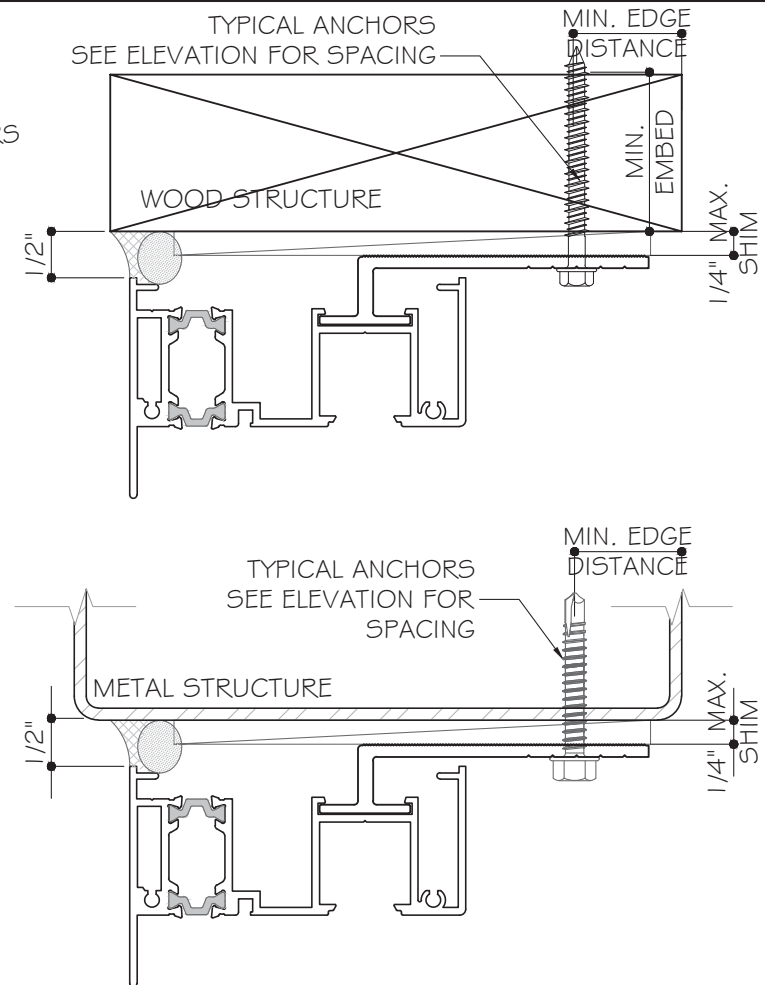
1
D4

DETAIL



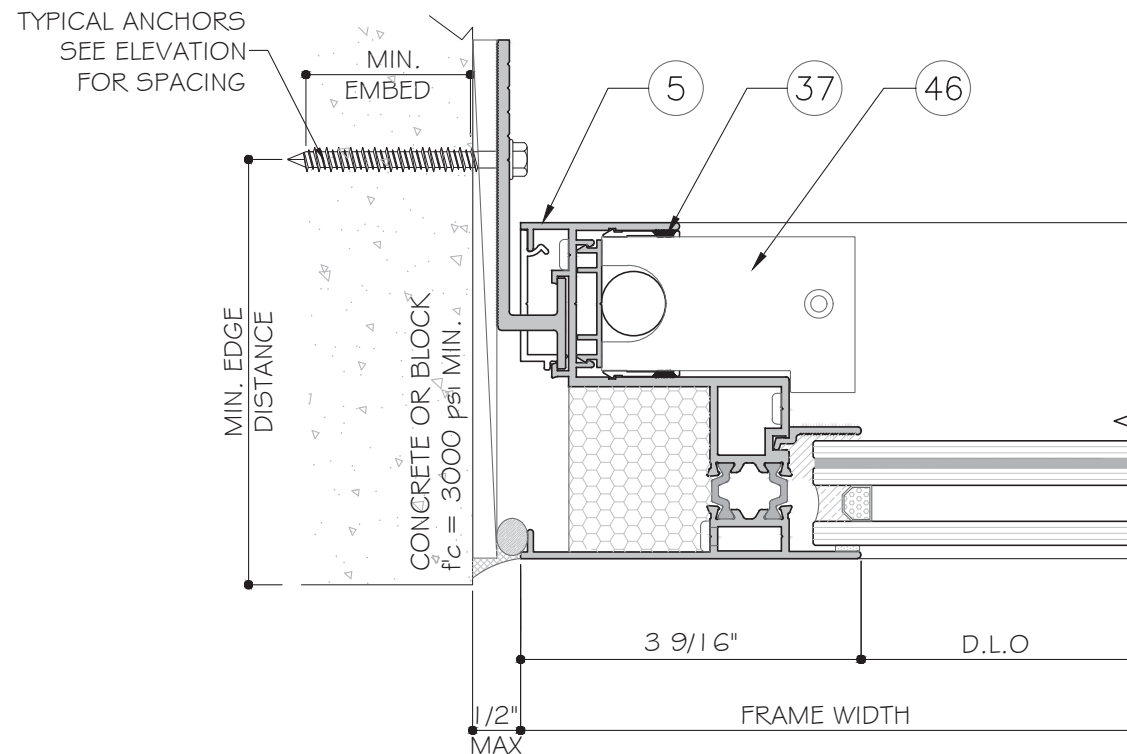
3
D4

DETAIL



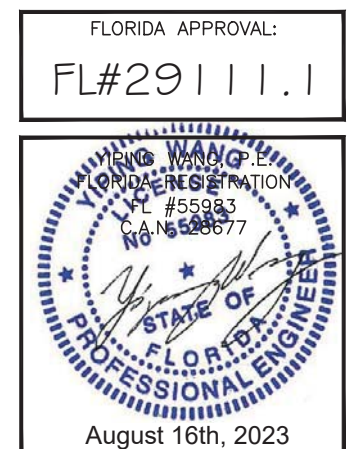
2
D4

DETAIL

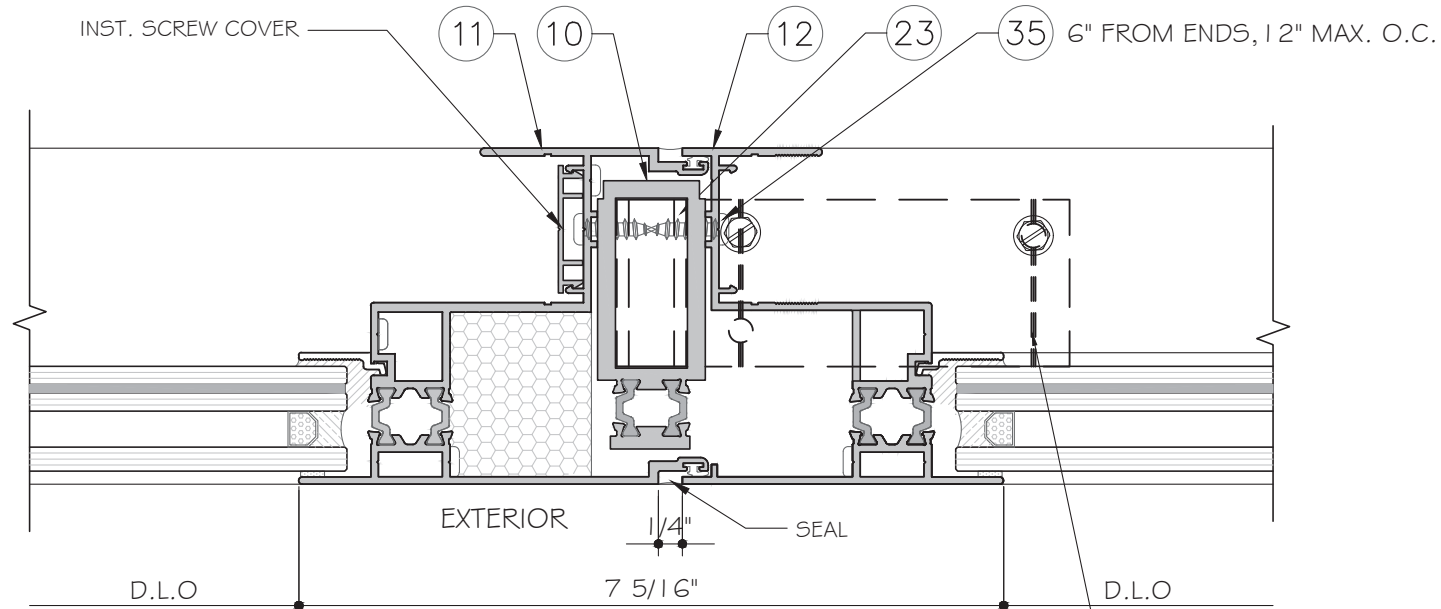


SEE SHEET D7 FOR APPROVED
FRAME ANCHOR OPTIONS

FRAME W/ F-CLIP

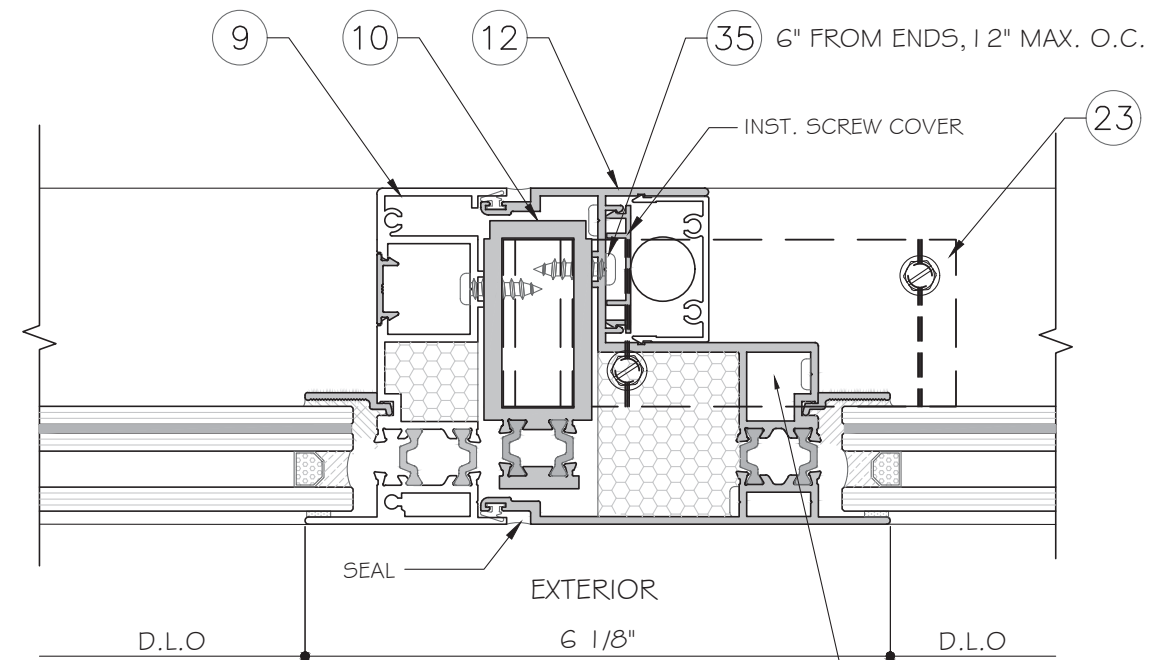


Rev. No.	Date	Description
R3	08.11.2023	FBC 2023
Drawn Date	08.11.2023	Scale
DRAWING NO.		
AD19-02		
D4		
Sheet No.		
13 OF 21		



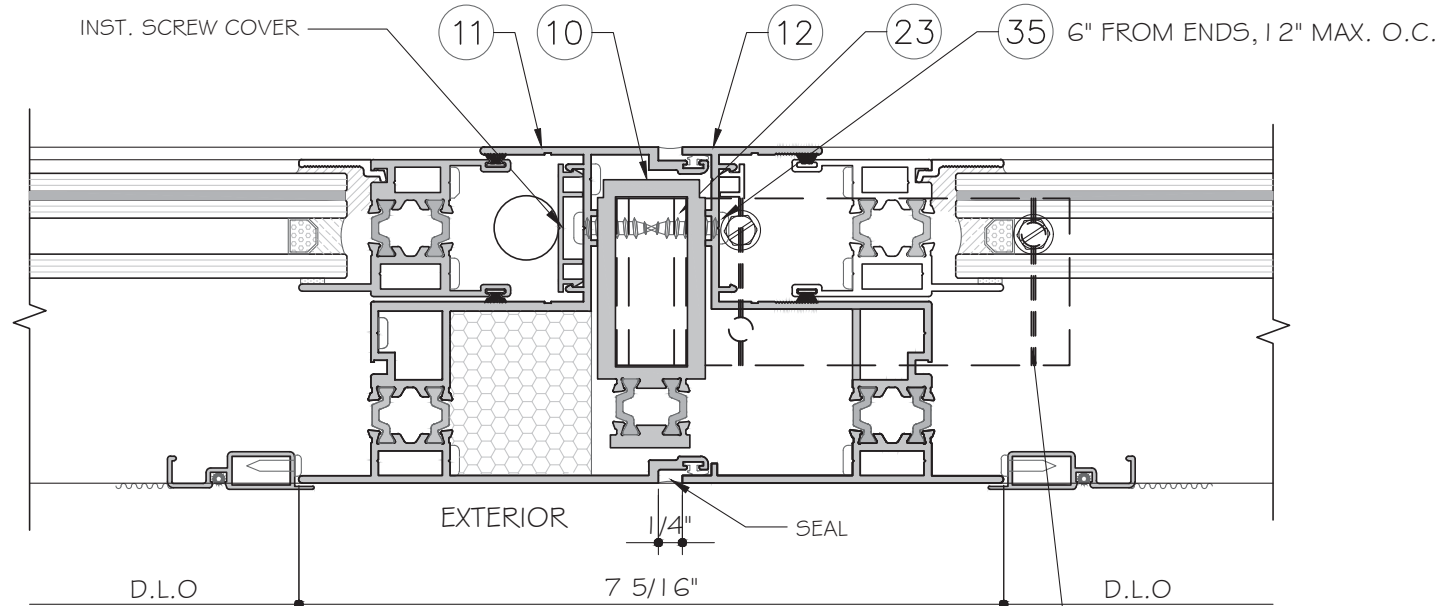
1
D5
DETAIL
SH-SH MULLION

CLIP ANCHOR REQUIRED AT TOP & BOTTOM FOR CONDITION WITH HEAD/SILL RECEPTOR, SEE D I A FOR ANCHOR LAYOUT & TYPES



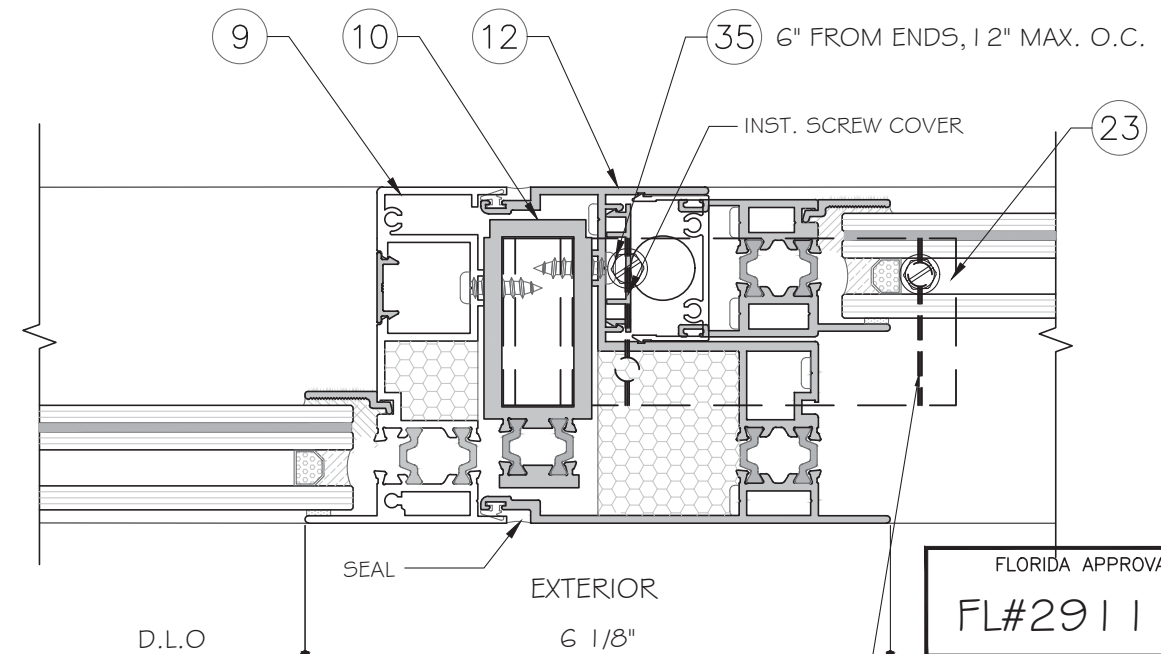
3
D5
DETAIL
FX-SH MULLION

CLIP ANCHOR REQUIRED AT TOP & BOTTOM FOR CONDITION WITH HEAD/SILL RECEPTOR, SEE D I A FOR ANCHOR LAYOUT & TYPES



2
D5
DETAIL
SH-SH MULLION

CLIP ANCHOR REQUIRED AT TOP & BOTTOM FOR CONDITION WITH HEAD/SILL RECEPTOR, SEE D I A FOR ANCHOR LAYOUT & TYPES

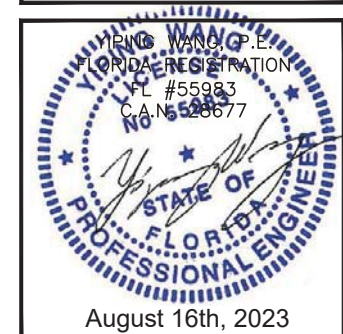


4
D5
DETAIL
FX-SH MULLION

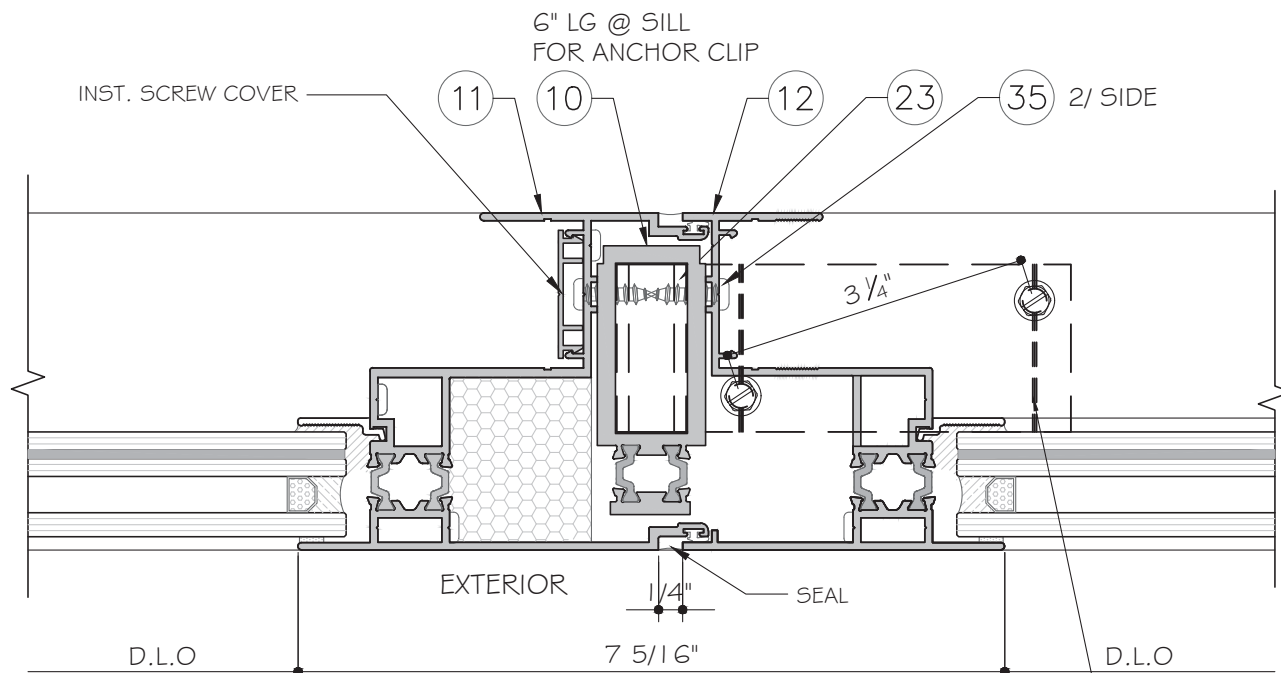
CLIP ANCHOR REQUIRED AT TOP & BOTTOM FOR CONDITION WITH HEAD/SILL RECEPTOR, SEE D I A FOR ANCHOR LAYOUT & TYPES

SEE SHEET D I FOR APPROVED ANCHOR OPTIONS W/ RECEPTOR

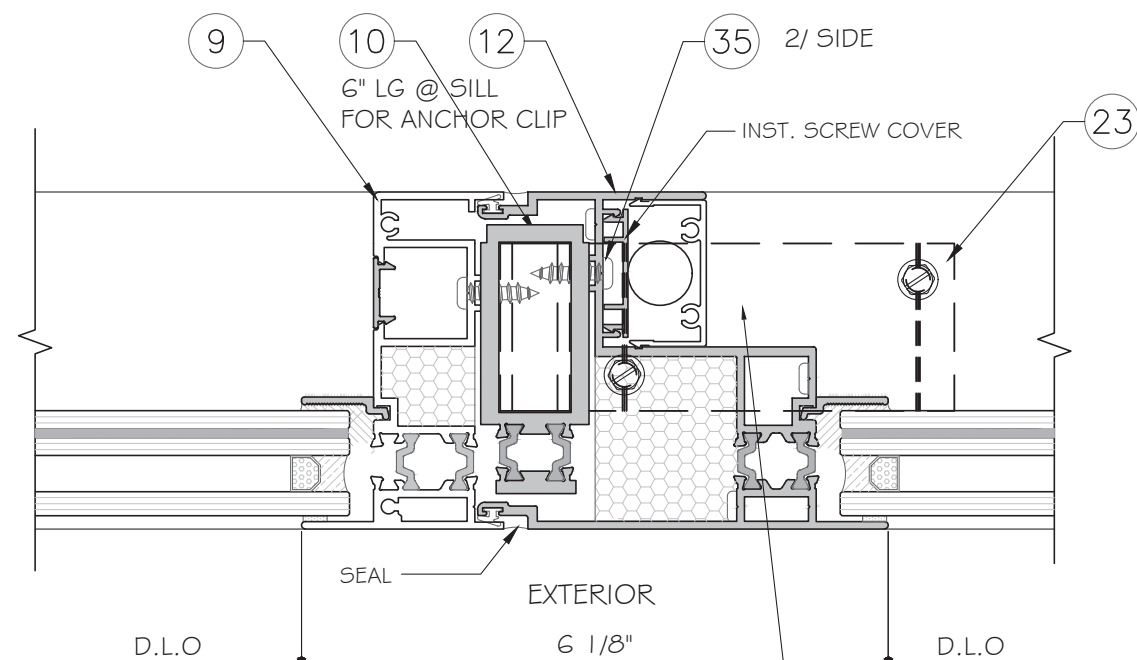
FLORIDA APPROVAL:
FL#29111.1



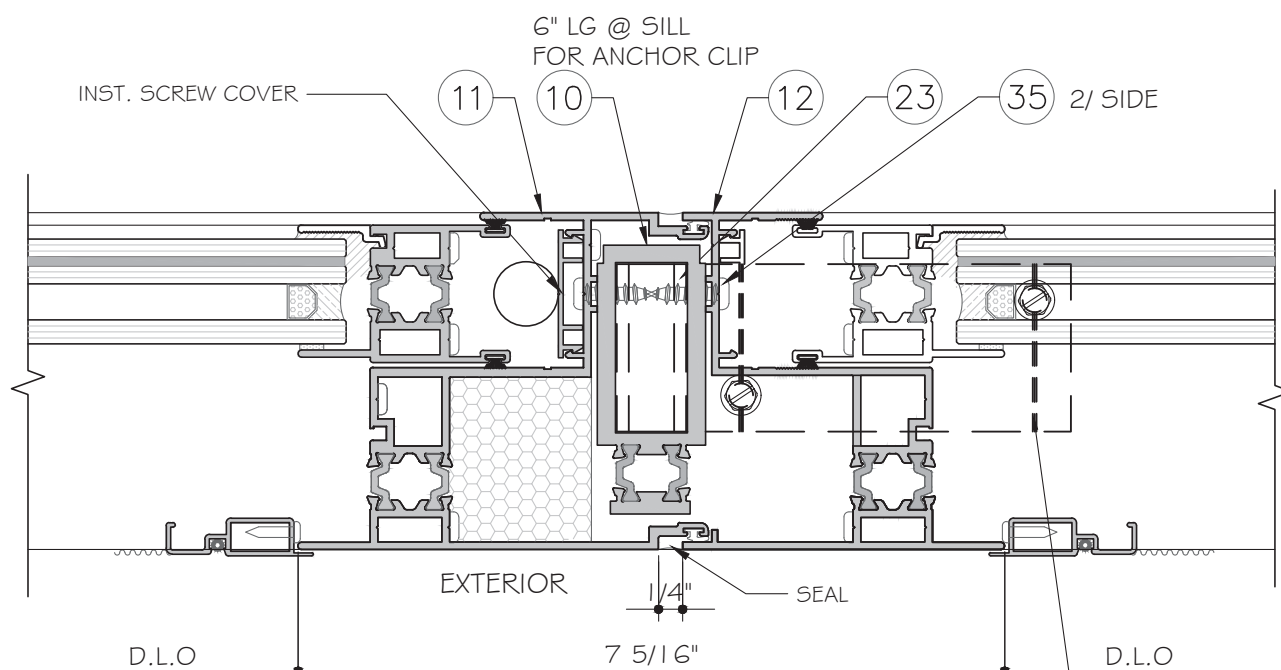
Rev. No.	Date	Description
P3	08.11.2023	FBC 2023
Drawn Date 08.11.2023		
Scale		
DRAWING NO. AD19-02		
D5		
Sheet No. 14 OF 21		



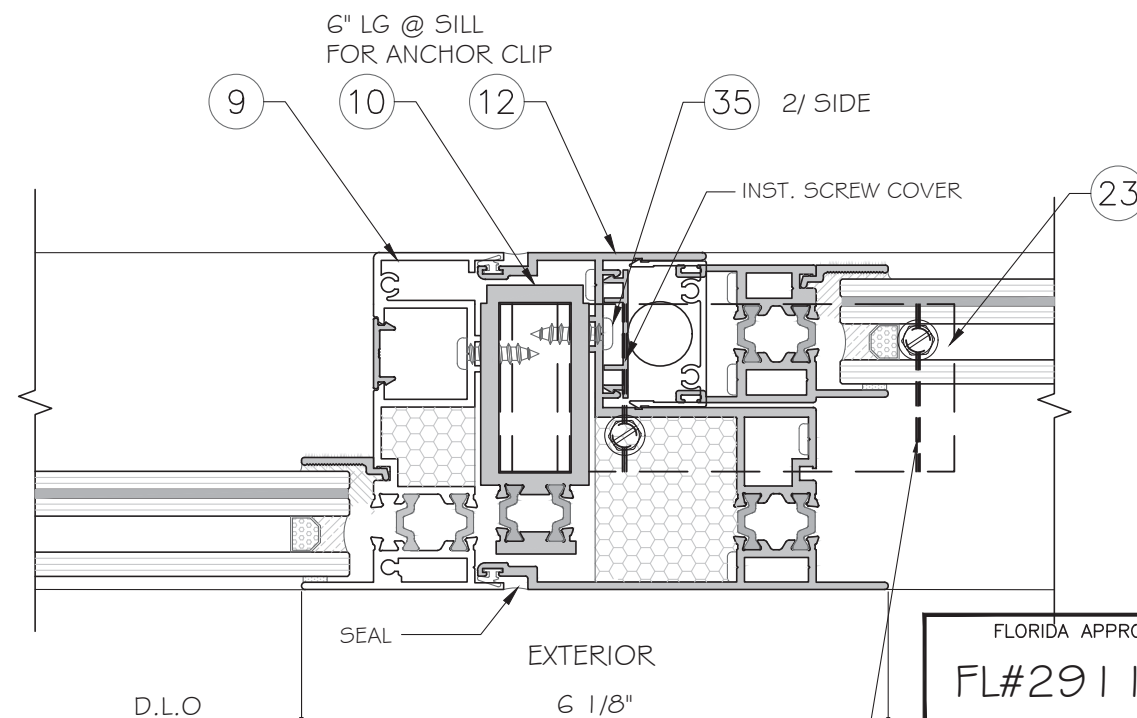
1
D5A
DETAIL
SH-SH MULLION



3
D5A
DETAIL
FX-SH MULLION



2
D5A
DETAIL
SH-SH MULLION

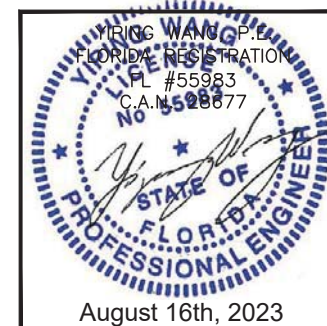


4
D5A
DETAIL
FX-SH MULLION

MULLION DETAILS FOR DIRECT ANCHOR
OR F-CLIP ANCHOR CONDITION

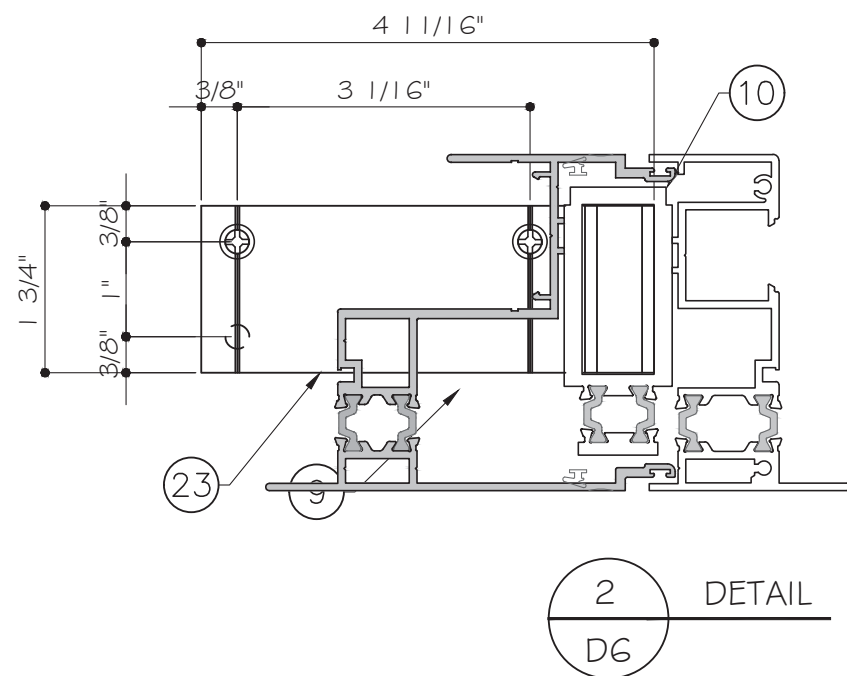
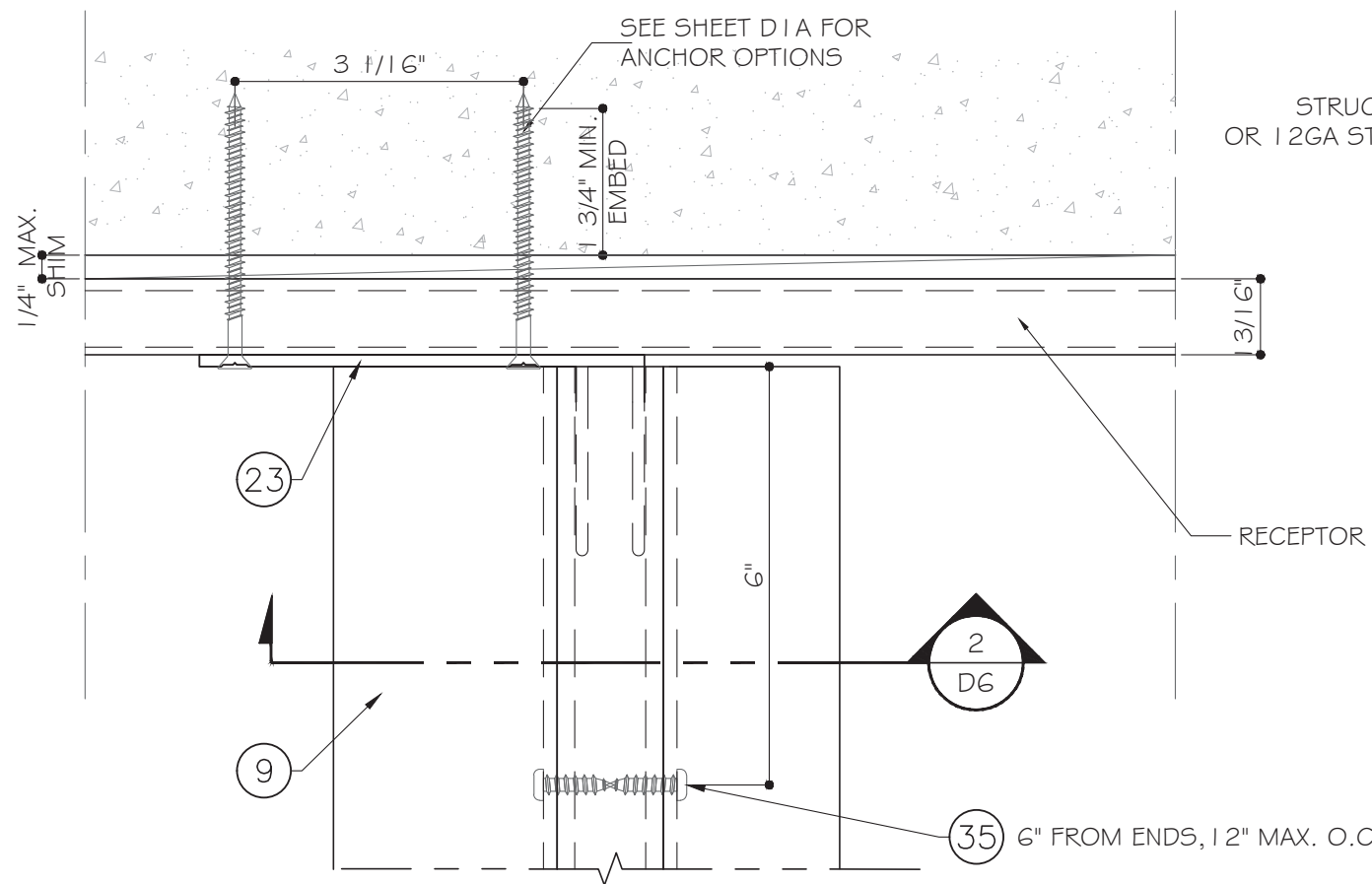
SEE SHEET D7 FOR APPROVED
FRAME ANCHOR OPTIONS

FLORIDA APPROVAL:
FL#29111.1



MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY. STE. 301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com			
NR ARCHITECTURAL PRODUCTS, INC. 4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407 TEL. (561)-844-1121			
NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.			
Rev.	Date	Description	
R3	08.11.2023	FBC 2023	
Drawn Date		Scale	
08.11.2023			
DRAWING NO.			
AD19-02			
D5A			
Sheet No.			
15 OF 21			

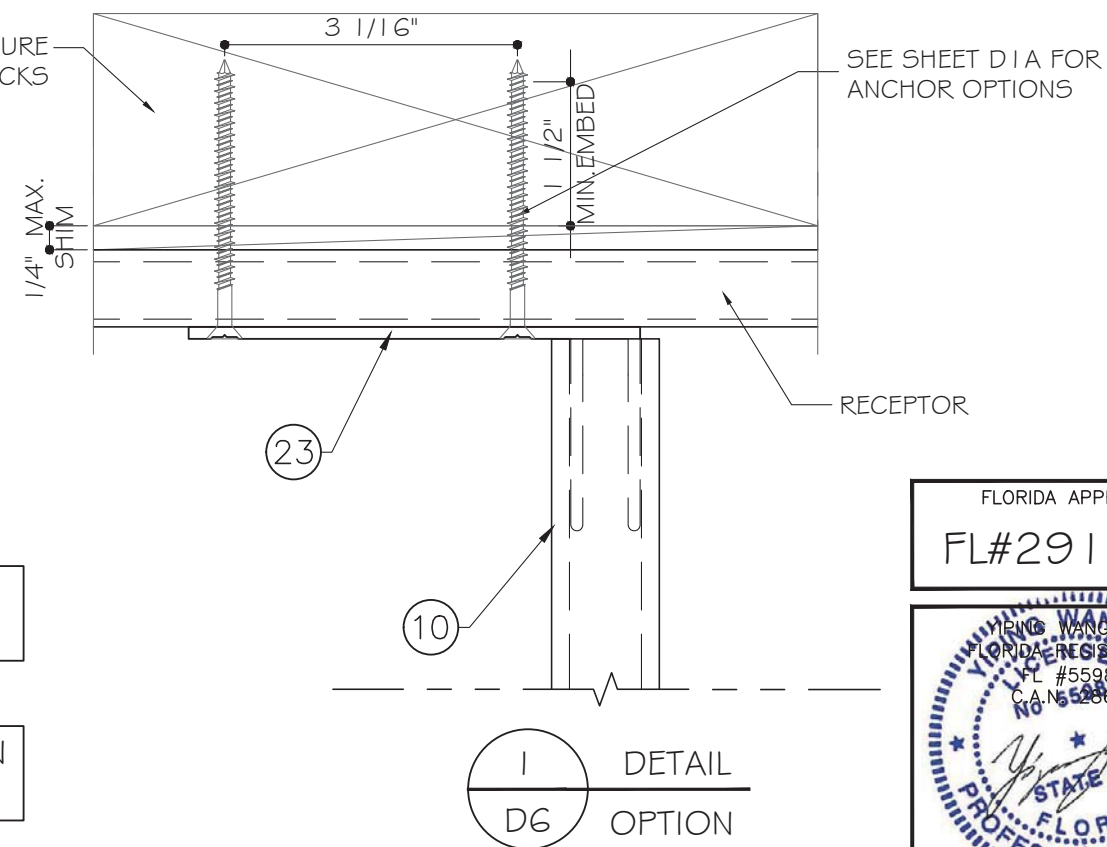
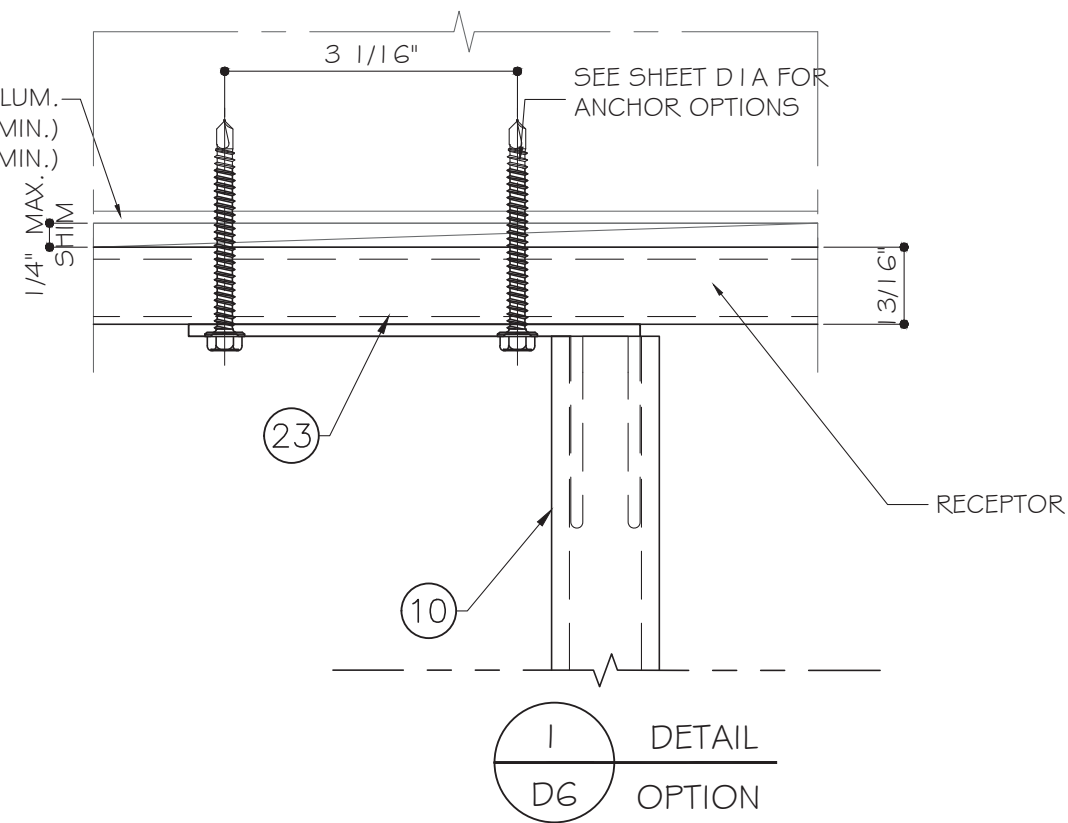
ANCHOR DETAIL FOR FX-FX OR SH-FX MULLION W/ REINF.
(WITH HEAD OR SILL RECEPTORS)



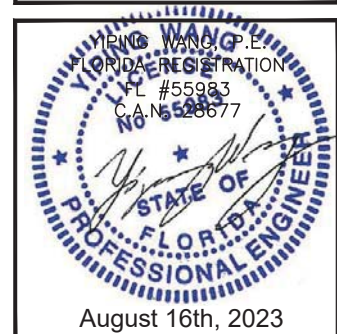
MULLION SILL ANCHOR SAME AS TOP ANCHOR

SEE SHEET D1A FOR MULLION ANCHOR OPTIONS

1/8" THK. ALUM. STRUCTURE (6063-T5 MIN.) OR 12GA STEEL (Fy=36 KSI MIN.)



FLORIDA APPROVAL:
FL#29111.1

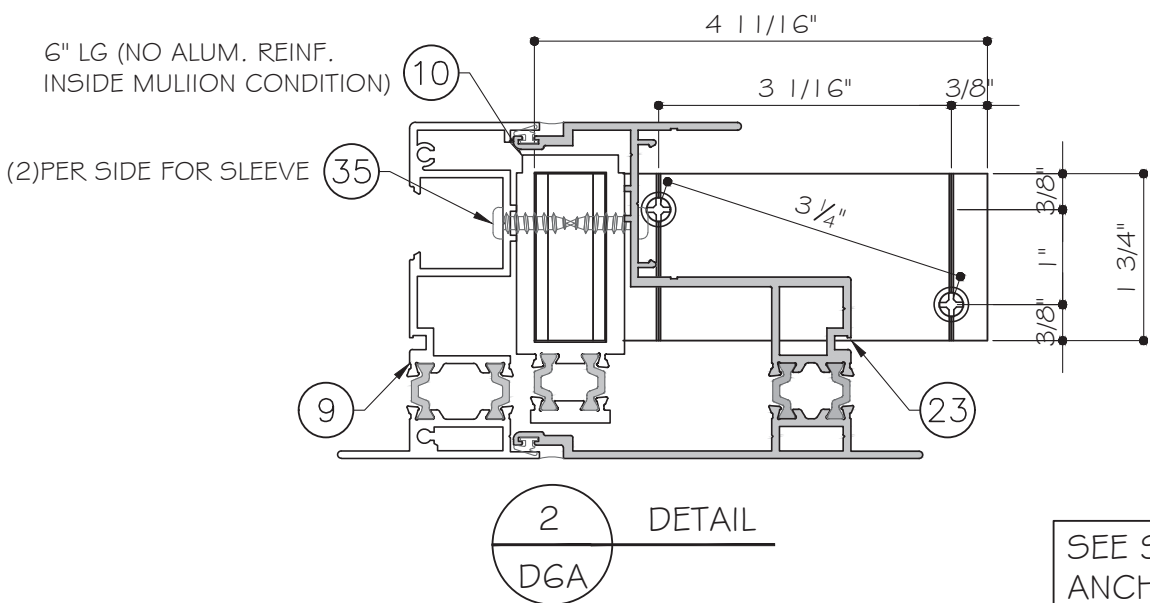
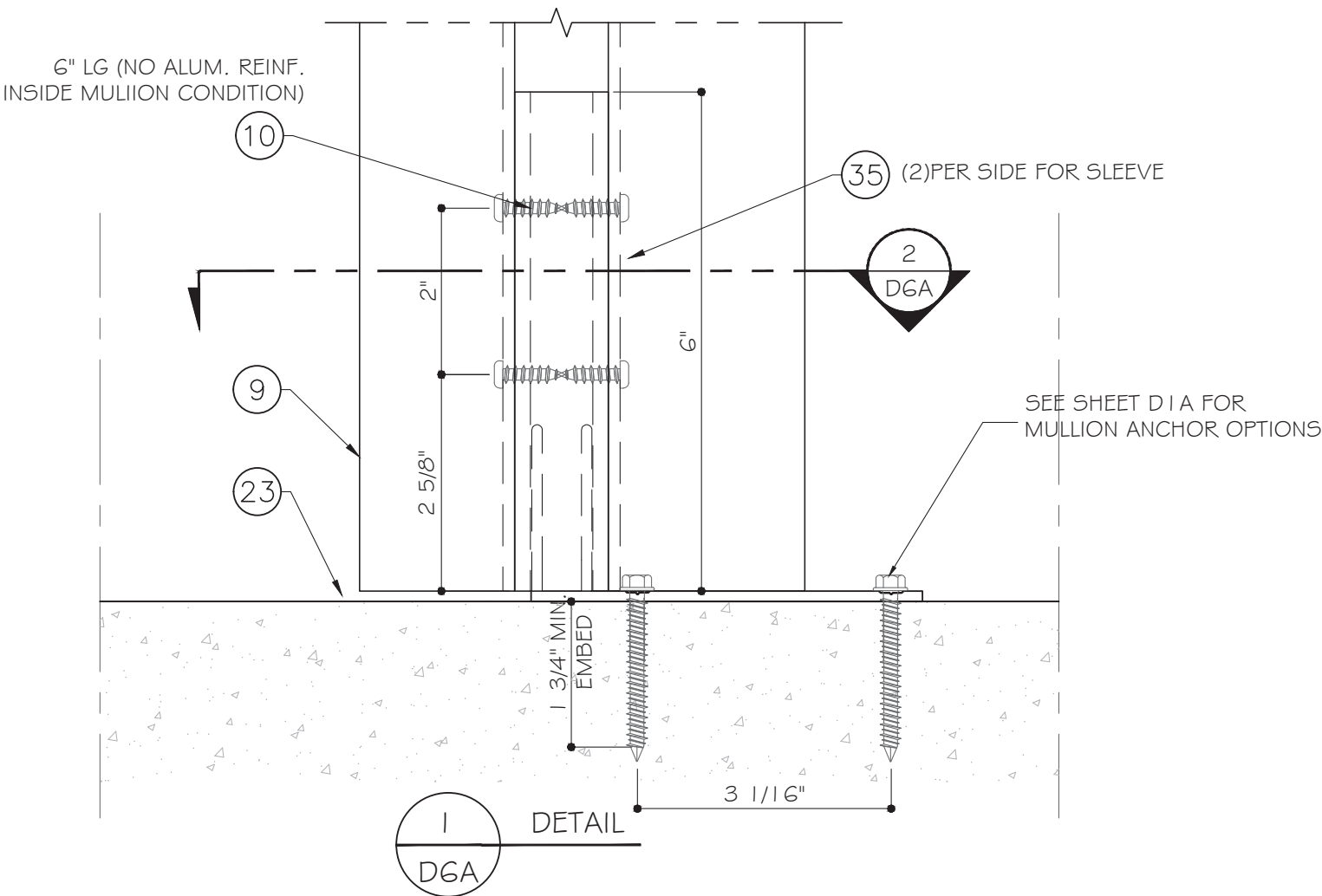


MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

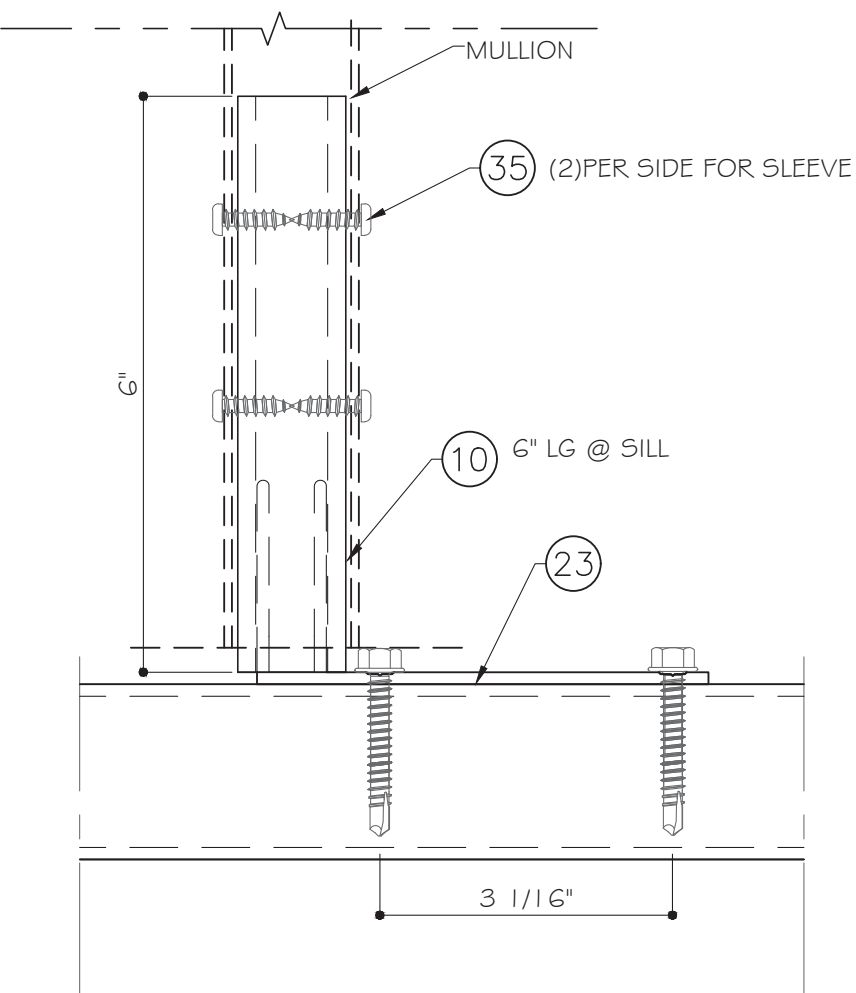
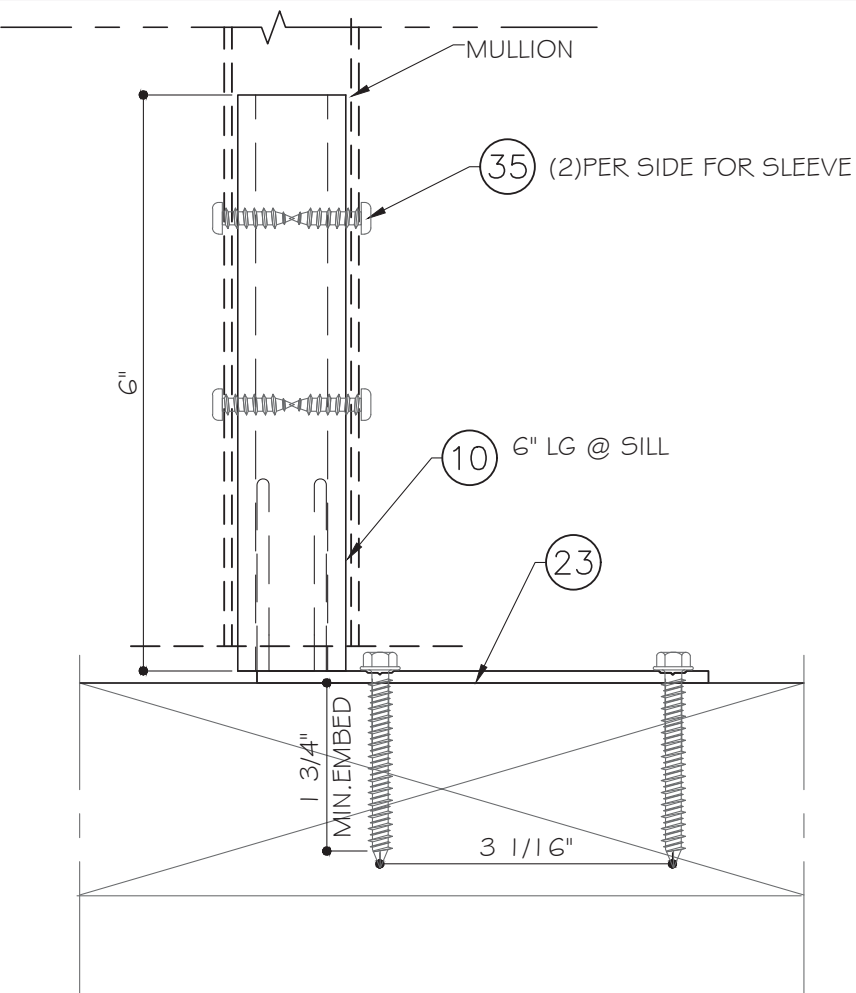
NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.
NR ARCHITECTURAL PRODUCTS, INC.
4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407
TEL. (561)-844-1121

Rev. No.	Date	Description
R3	08.11.2023	FLC 2023
Drawn Date	08.11.2023	Scale
DRAWING NO. AD19-02		
D6		
Sheet No. 16 OF 21		

ANCHOR DETAIL FOR SH-FX MULLION SILL DETAIL
FRAME W/ DIRECT ANCHOR OR F-CLIP ANCHOR OPTION



SEE SHEET D1A FOR MULLION ANCHOR OPTIONS



FLORIDA APPROVAL:
FL#29111.1

YOUNG WANG P.E.
FLORIDA REGISTRATION
FL #55983
CA# 6526677

August 16th, 2023

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

NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.
NR ARCHITECTURAL PRODUCTS, INC.
4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407
TEL. (561)-844-1121

Rev. No.	Date	Description
R3	08.11.2023	FBC 2023

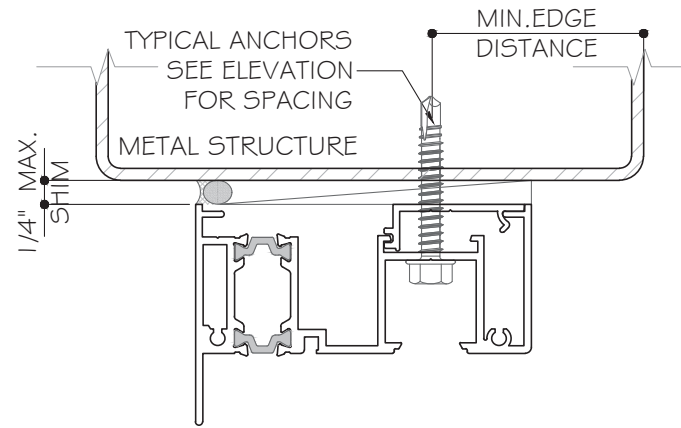
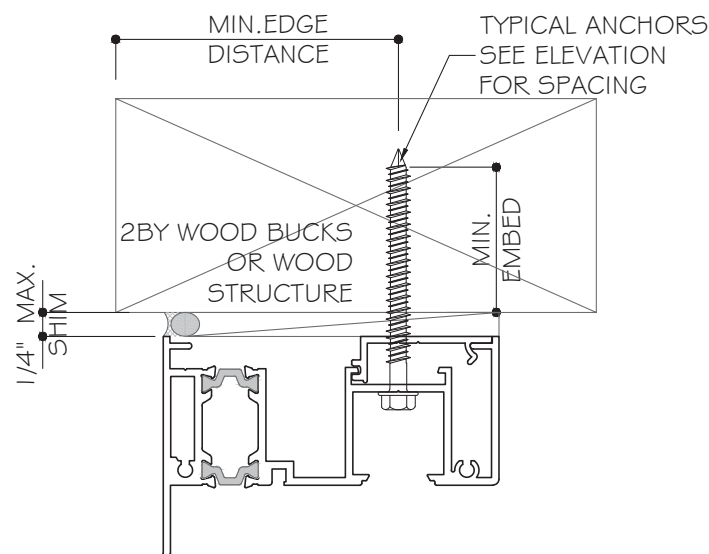
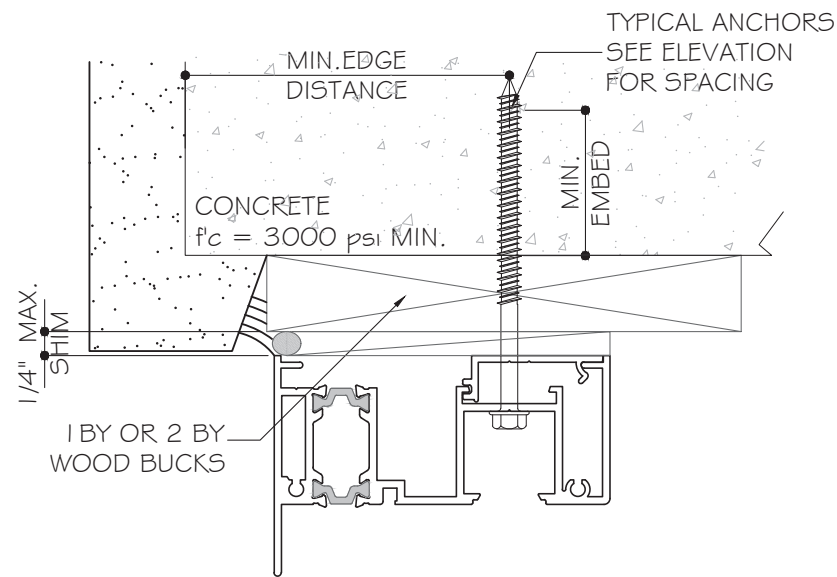
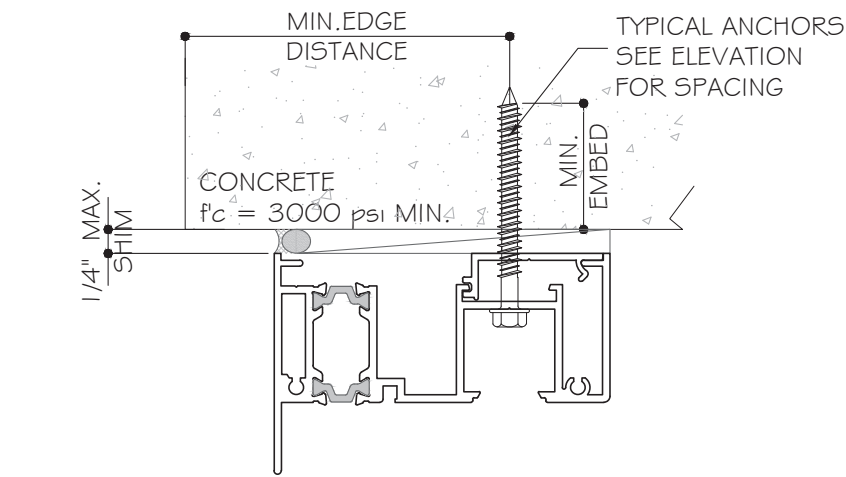
Drawn Date
08.11.2023

Scale

DRAWING NO.
AD19-02

D6A

Sheet No.
17 OF 21



1 BY OR 2 BY WOOD BUCKS AND METAL STRUCTURE NOT BY N.R. ARCHITECTURAL GROUP MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS FOR FRAME -DIRECT ANCHOR OR THRU CLIP:
(SEE ELEVATIONS FOR SPACING)

TYPE AA: 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
1/4" DIA. TAPCON BY 'ITW' ($F_u=120$ KSI, $F_y=92$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH
1-1/2" MIN. PENETRATION INTO WOOD
OR THRU WOOD INTO CONCRETE OR MASONRY

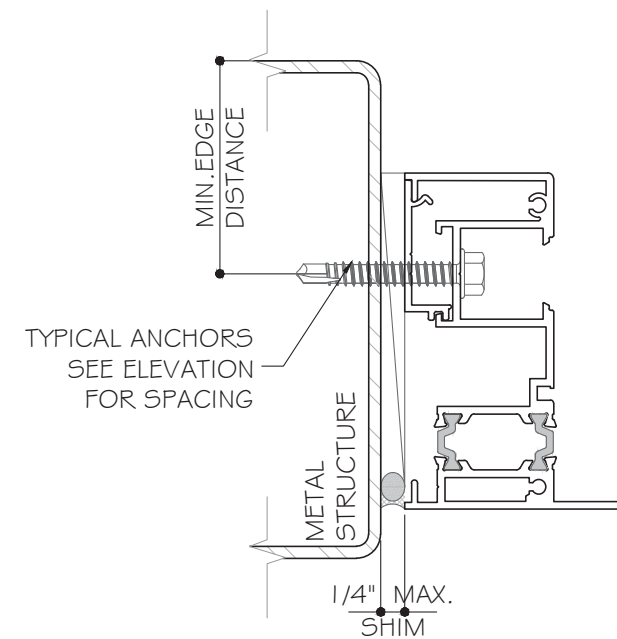
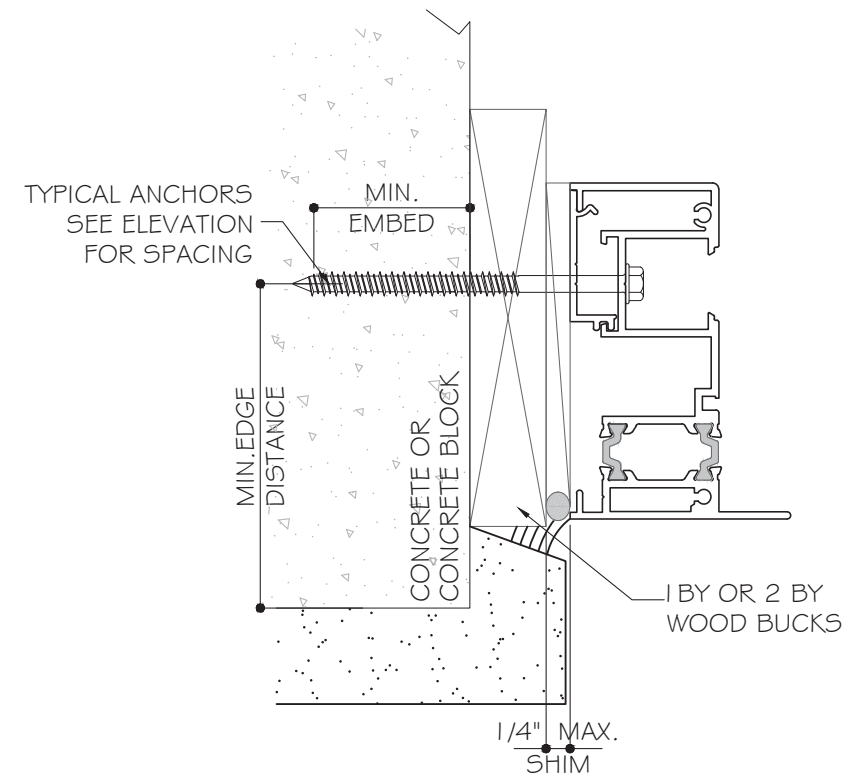
TYPE A: 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
1/4" DIA. TAPCON BY 'ITW' ($F_u=120$ KSI, $F_y=92$ KSI)
DIRECTLY INTO CONCRETE OR MASONRY
1-3/4" MIN. EMBED INTO CONCRETE OR HOLLOW/GROUT FILLED BLOCK

TYPE B: 1/4" DIA. TAPCON BY 'ITW' ($F_u=120$ KSI, $F_y=92$ KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE OR MEDIUM WEIGHT CMU

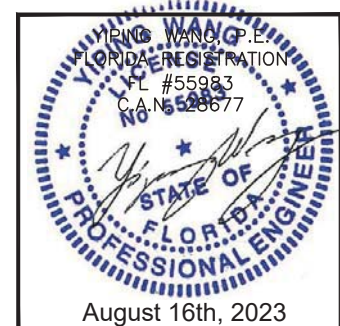
TYPE C: #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
STEEL: 1/8" THK. MIN. (A36 MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND GROUT FILLED BLOCK= 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMB SG=0.55 MIN.
CONCRETE AT HEAD, SILL & JAMB $f'_c=3000$ PSI
C-90 HOLLOW/FILLED BLOCK OR MEDIUM WEIGHT CMU
 $f'_c=2000$ PSI MIN. AT JAMB ONLY



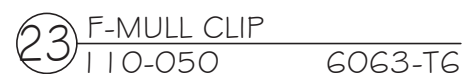
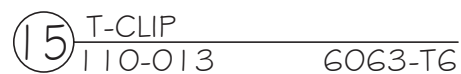
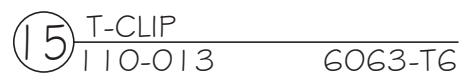
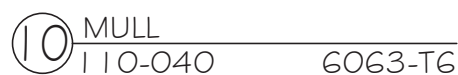
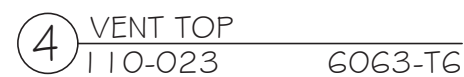
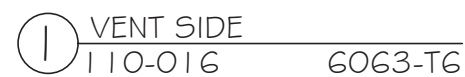
FLORIDA APPROVAL:
FL#29111.1



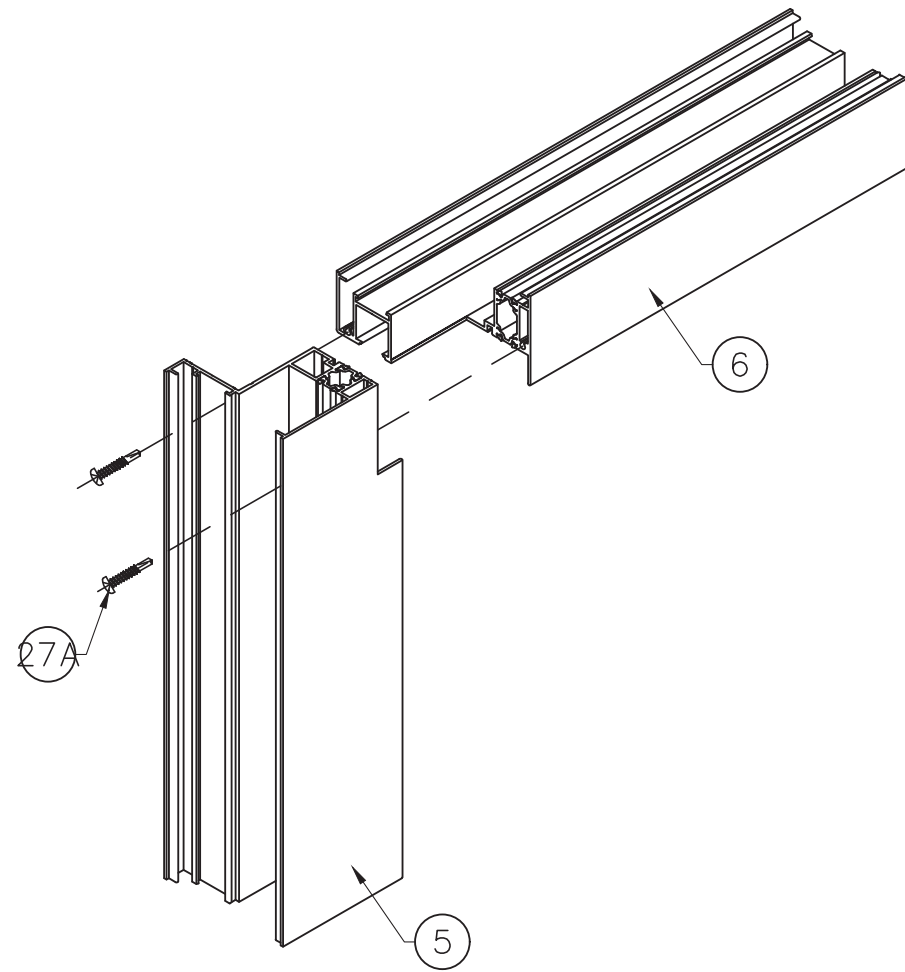
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.
NR ARCHITECTURAL PRODUCTS, INC.
4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407
TEL. (561)-844-1121

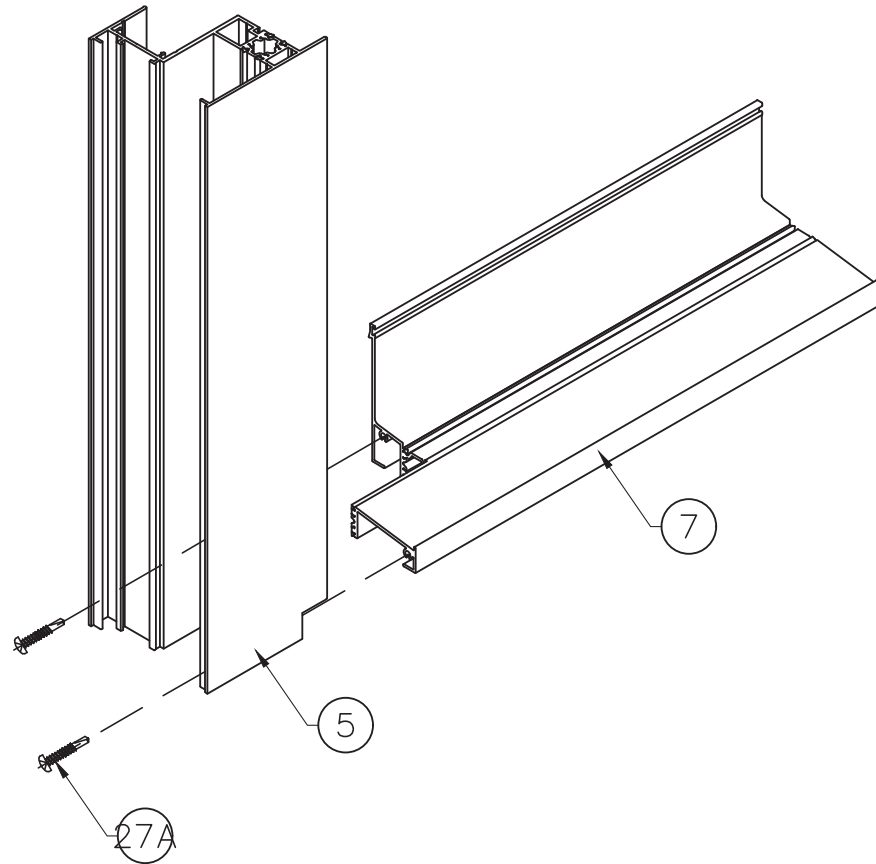
Rev. No.	Date	Description
R3	08.11.2023	FGC 2023
Drawn Date	08.11.2023	Scale
DRAWING NO.		
AD19-02		
D7		
Sheet No.		
18 OF 21		



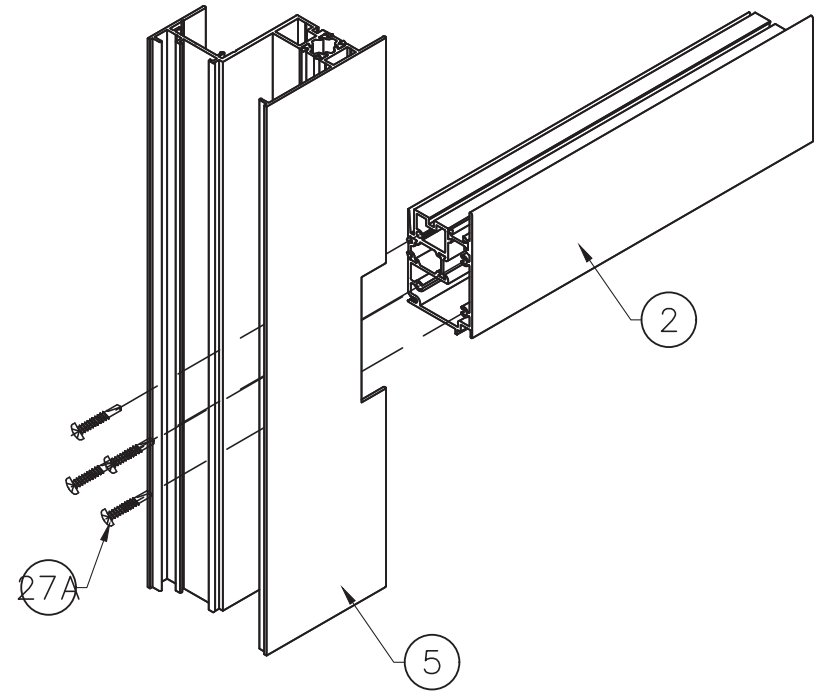
YIPING WANG, P.E.
 FLORIDA REGISTRATION
 FL #555983
 CAN #55598377
 No. 555983
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 August 16th, 2023



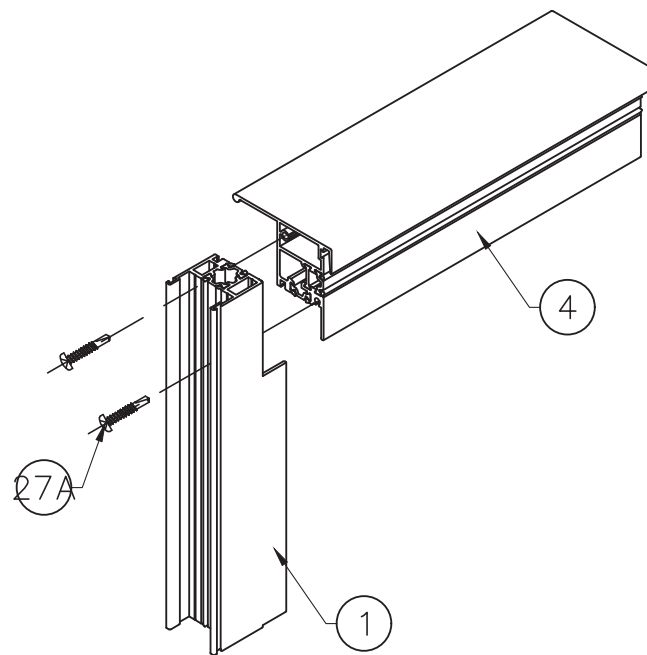
JAMB - HEAD CORNER ASSEMBLY



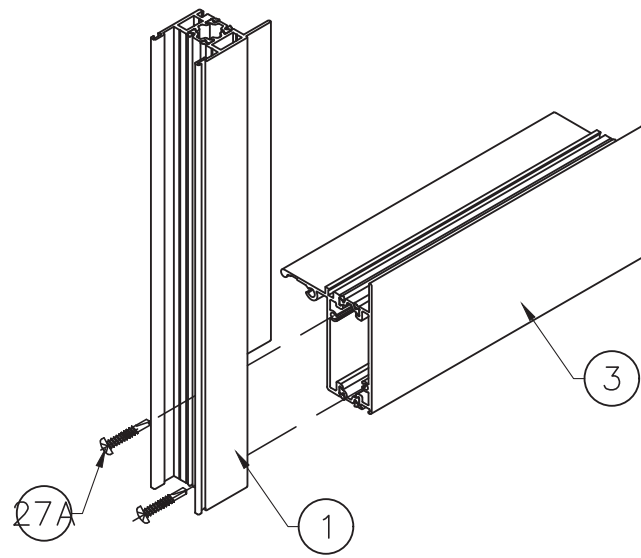
JAMB - SILL CORNER ASSEMBLY



MEETING RAIL ASSEMBLY



VENT TOP - VENT SIDE ASSEMBLY



VENT BOTTOM - VENT SIDE ASSEMBLY

FLORIDA APPROVAL:
FL#29111.1

Professional Engineer Seal for YOUNG WANG, P.E., State of Florida, Registration No. 55983, Exp. 08.11.2023. The seal includes a signature and the date August 16th, 2023.

NR 3500 SINGLE HUNG WINDOW - L.M.I. & S.M.I.
NR ARCHITECTURAL PRODUCTS, INC.
4348 WESTROAD DRIVE, RIVIERA BEACH FL 33407
TEL. (561)-844-1121

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

Rev. No.	Date	Description
R3	08.11.2023	FGC 2023
DRAWING NO. AD19-02		
ASSEMBLY		
Sheet No. 21 OF 21		