

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL (SMI)

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MATERIALS

A. ALUMINUM:

- 1- ALL ALUMINUM EXTRUSION SHALL BE 6063-T5, 6063-T6 AND 6061-T6 (OR EQUIVALENT) AS SHOWN IN BILL OF MATERIAL
- 2- ALUMINUM PANEL $\frac{1}{8}$ " THK MIN 3003-H14

B. STEEL:

- 1- ALL STEEL FOR CURTAIN WALL SHALL BE Q235 Fy=34ksi
- 2- ALL STEEL WELDS TO BE ELECTRODE E70

C. SEALANT:

- 1- APPLY DOW CORNING 791 TO SHOP APPLIED METAL TO METAL JOINERY (FRAME ASSEMBLY). APPLY DOW CORNING 790 TO EXTERIOR PERIMETERS SEALANT AND FASTENER SEALANT.
- 2- THE GLAZING SEALANT SHALL BE DOW CORNING 983

D. GLASS:

- 1- SEE CHART ON SHEET 4A (G1) FOR SIZES AND CAPACITIES.
- 2- SETTING BLOCK AT $\frac{1}{8}$ POINT

E. FASTENERS:

- 1-ALL BOLTS AND NUTS ATTACHED TO ALUMINUM AND ANCHORED TO STEEL SUPPORTING MEMBER SHALL BE: 304 SERIES COLD-ROLLED STAINLESS STEEL
- Fy=65ksi FOR FASTENER DIAMETER UP TO $\frac{9}{16}$ "
- Fy=45ksi FOR FASTENER DIAMETER EQUAL OR GREATER THAN $\frac{3}{4}$ ".
- 2-ANCHORS INTO CONCRETE SHALL BE: 5/16" DIA. DEWALT ULTRACON. (Fy=155ksi Fu=177ksi)
- 3-SCREWS INTO STEEL MEMBER SHALL BE: ST6.3 STAINLESS STEEL 410 (Fy=92ksi Fu=120ksi)

GENERAL NOTES

CURTAIN WALL SYSTEM IS RATED FOR SMALL MISSILE IMPACT. IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATION UP TO 30 FT OF GRADE. SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE 30 FT OF GRADE.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ)

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 CURRENT FLORIDA BUILDING CODE AS APPLICABLE.

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 LOAD.

INSTRUCTIONS:

STEP #1:
DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, AND WIND ZONE USING APPLICABLE ASCE 7 STANDARDS OR WIND TUNNEL REPORTS

STEP #2:
SEE CHART ON SHEET 4A FOR GLASS CAPACITY OF DESIGNED GLASS SIZE.

STEP #3:
SEE CHART ON SHEET 4B FOR STRUCTURAL SILICONE CAPACITY LIMITATION.

STEP #4:
CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART ON SHEET 5, 5A & 5B FOR MULTIPLE SPAN AND USING CHART ON SHEET 6, 6A, 6B & 6C FOR SINGLE SPAN

STEP #5:
SEE ANCHOR CAPACITY LIMITATIONS ON DETAIL SHEETS.

STEP #6:
THE LOWEST VALUES RESULTING FROM STEP 2 AND 5 SHALL APPLY TO THE ENTIRE SYSTEM

REVISIONS	
NO.	DATE
R3	08.10.23
DESCRIPTION	
FBC 2023	

MCY

ENGINEERING, INC.

GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

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N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

- 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.

YIN WANG, P.E.

FLORIDA REGISTRATION

FL #55983

C.A.N. 5528677

STATE OF FLORIDA

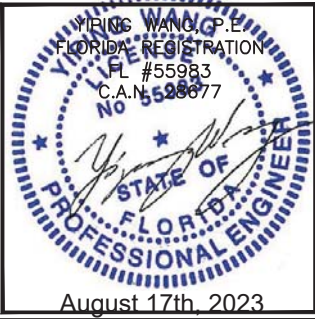
PROFESSIONAL ENGINEER

August 17th, 2023

FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	
AD16-10	
SM01	
SHEET 1	

NR8-001 MALE MULLION			NR8-002 FEMALE MULLION			NR8-004 MALE JAMB			NR8-028 MALE STARTER/STACK JOINT HORIZ.			NR8-080 HORIZ. GLASS CHAIR			
ALUMINUM	MATERIAL	6063-T6	ALUMINUM	MATERIAL	6063-T6	ALUMINUM	MATERIAL	6063-T6	ALUMINUM	MATERIAL	6063-T6	ALUMINUM	MATERIAL	6061-T6	
PROFILE NO.	NR8-001	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-002	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-004	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-028	TREATMENT	PVDF PAINTING (3 LAYERS)
PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			
NR8-052 INTERM HORIZONTAL			NR8-053 INTERM. HORIZONTAL			NR8-026 FEMALE STACK JOINT			NR8-027 HORIZONTAL SPLICE			NR8-081 SILL GLASS CHAIR			
ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6061-T6	ALUMINUM	MATERIAL	6061-T6	
PROFILE NO.	NR8-052	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-053	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-026	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-027	TREATMENT	ANODIZED
PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			
NR8-063 HORIZONTAL GLAZING ADAPTOR			NR8-053 PANEL ADAPTOR			NR8-073 INTERMEDIATE CAP			NR8-093 CORNER MULLION ANCHOR BRACKET			NR8-029 MULLION AND HORIZ. TRIM			
ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6061-T6	ALUMINUM	MATERIAL	6063-T5	
PROFILE NO.	NR8-063	TREATMENT	ANODIZED	PROFILE NO.	NR8-053	TREATMENT	ANODIZED	PROFILE NO.	NR8-073	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-093	TREATMENT	ANODIZED
PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			UC109848			PAINTING COLOR			
NR8-074 STACK JOINT COVER CAP			NR8-209 DRYWALL ADAPTOR (OPTIONAL)			NR8-169 STARTER SILL ADAPTOR			NR8-065 HEAD GLAZING ADAPTOR			NR8-178 HEAD TRIM			
ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	
PROFILE NO.	NR8-074	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-209	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-169	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-065	TREATMENT	PVDF PAINTING (3 LAYERS)
PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			
NR8-055: HORIZONTAL			NR8-210: GLASS CHAIR			NR8-211: S. STARTER TRIM			NR8-025: SILL STACK			NR8-178A END MULLION TRIM			
ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6061-T6	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	ALUMINUM	MATERIAL	6063-T5	
PROFILE NO.	NR8-055	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-210	TREATMENT	ANODIZED	PROFILE NO.	NR8-211	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-025	TREATMENT	PVDF PAINTING (3 LAYERS)
PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			PAINTING COLOR			

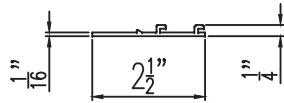
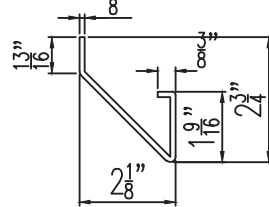
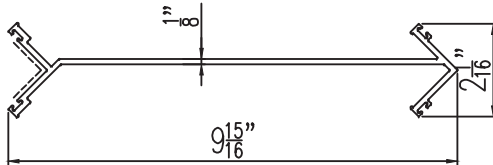
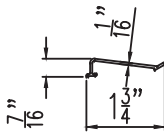
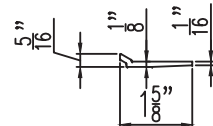
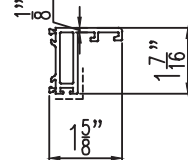
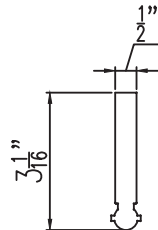
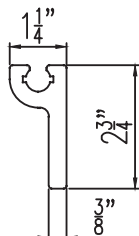
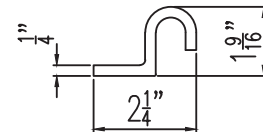
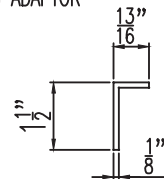
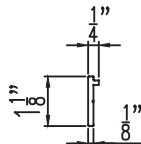
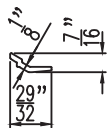
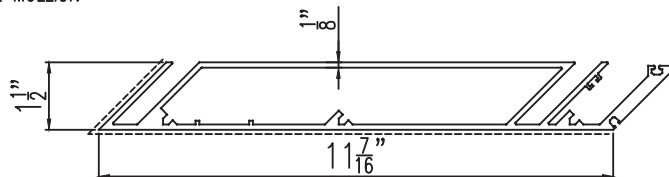
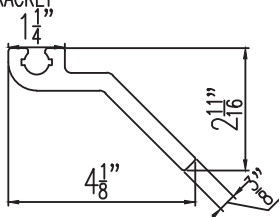
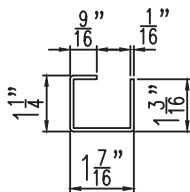
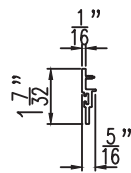
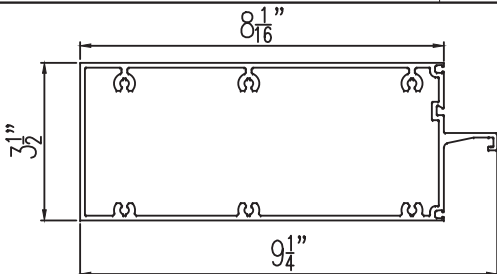
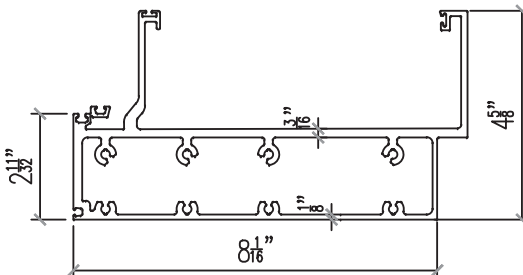
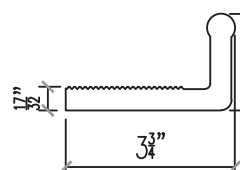
August 17th, 2023



SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL

REVISIONS	
NO.	DATE
R3	08.10.23
	FBC 2023
M C Y	
MCY ENGINEERING, INC. GLAZING CONSULTANTS	
8501 SW 124 AVE. STE. 205A MIAMI, FL 33183	P: 305.271.0117 F: 305.588.5224
www.MCYEngineering.com	MCY@mcysengineering.com

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N.R. ARCHITECTURAL PRODUCTS, INC.	
4348 WESTROADS DRIVE	
WEST PALM BEACH, FL. 33407	
P: (561) 844 - 1121 F: (561) 844 - 6131	
FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	
AD16-10	
C01	
SHEET 2	

NR8-146 DRYWALL ADAPTOR (OPYIONAL)			NR8-007 VERTICAL CORNER GLAZING ADAPTOR			NR8-006 CORNER SPLICE			NR8-003 ANTI BUCKLING CLIP						
															
ALUMINUM		MATERIAL	6063-T5	ALU SOLID SHEET		MATERIAL	3003-H14	ALUMINUM		MATERIAL	6063-T6	ALUMINUM		MATERIAL	6063-T5
PROFILE NO.	NR8-146	TREATMENT	ANODIZED	PROFILE NO.	NR8-007	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-006	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-003	TREATMENT	ANODIZED
PAINTING COLOR				PAINTING COLOR				PAINTING COLOR				PAINTING COLOR			
NR8-079 GLASS CHAIR			NR8-067 FEMALE STACK JOINT ADAPTOR			NR8-105 HOOK			NR8-090 MULLION BRACKET						
															
ALUMINUM		MATERIAL	6061-T6	ALUMINUM		MATERIAL	6063-T5	ALUMINUM		MATERIAL	6061-T6	ALUMINUM		MATERIAL	6061-T6
PROFILE NO.	NR8-079	TREATMENT	ANODIZED	PROFILE NO.	NR8-067	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-105	TREATMENT	ANODIZED	PROFILE NO.	NR8-090	TREATMENT	ANODIZED
PAINTING COLOR		4"LG		PAINTING COLOR				PAINTING COLOR				PAINTING COLOR			
NR8-107 ANTI-WALKING CLIP			NR8-108 END JAMB ADAPTOR			NR8-113 DRYWALL ADAPTOR (OPTIONAL)			NR8-212 GLASS CHAIR						
															
ALUMINUM		MATERIAL	6061-T6	ALUMINUM		MATERIAL	6063-T5	ALUMINUM		MATERIAL	6063-T6	ALUMINUM		MATERIAL	6061-T6
PROFILE NO.	NR8-107	TREATMENT	ANODIZED	PROFILE NO.	NR8-108	TREATMENT	ANODIZED	PROFILE NO.	NR8-113	TREATMENT	ANODIZED	PROFILE NO.	NR8-212	TREATMENT	ANODIZED
PAINTING COLOR				PAINTING COLOR				PAINTING COLOR				PAINTING COLOR			
NR8-005 CORNER MALE MULLION			NR8-091 CORNER BRACKET			NR8-213 JAMB TRIM									
															
ALUMINUM		MATERIAL	6063-T6	ALUMINUM		MATERIAL	6061-T6	ALU SOLID SHEET		MATERIAL	3003-H14	ALU SOLID SHEET		MATERIAL	3003-H14
PROFILE NO.	NR8-005	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-091	TREATMENT	ANODIZED	PROFILE NO.	NR8-213	TREATMENT	PVDF PAINTING (3 LAYERS)	PROFILE NO.	NR8-213	TREATMENT	PVDF PAINTING (3 LAYERS)
PAINTING COLOR				PAINTING COLOR				PAINTING COLOR				PAINTING COLOR			
NR8-214 MULLION & HORIZONTAL TRIM			NR8-056			NR8-031			NR5-039 TRIM						
															
ALUMINUM TRIM		MATERIAL	6063-T5	ALUMINUM TRIM		MATERIAL	6063-T6	ALUMINUM TRIM		MATERIAL	6063-T6	ALUMINUM TRIM		MATERIAL	6061-T6
PROFILE NO.	NR8-214	TREATMENT	ANODIZED	PROFILE NO.	NR8-056	TREATMENT	ANODIZED	PROFILE NO.	NR8-031	TREATMENT	ANODIZED	PROFILE NO.	NR5-039	TREATMENT	ANODIZED
PAINTING COLOR				PAINTING COLOR				PAINTING COLOR				PAINTING COLOR			

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REVISES		NO.	DATE	DESCRIPTION
		R3	08.10.23	FBC 2023

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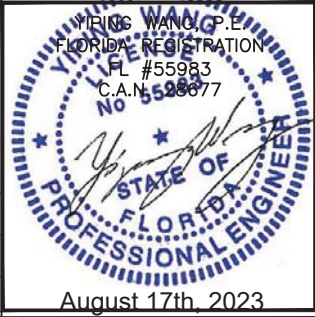
GLAZING CONSULTANTS

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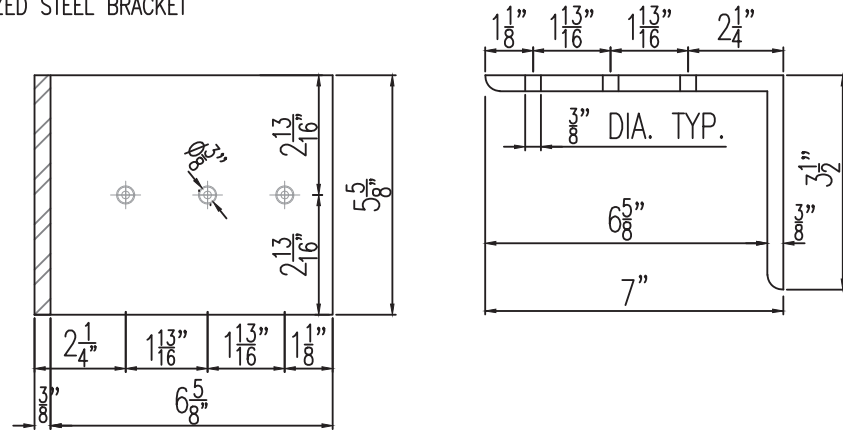
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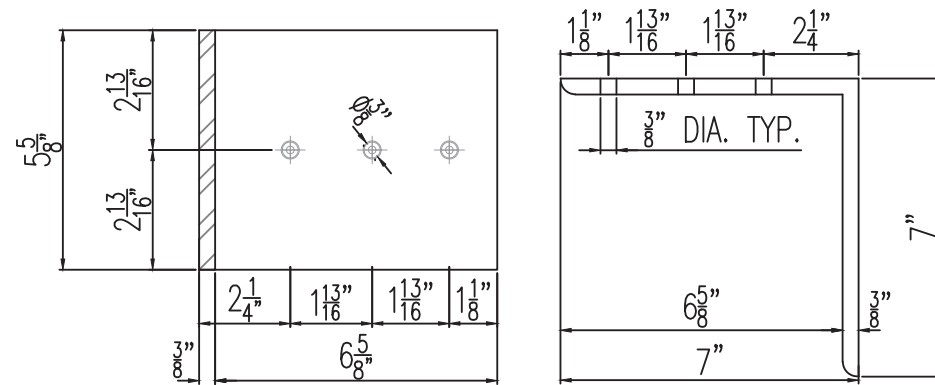
FLORIDA APPROVAL:		FL #20149.3	
DATE	08.10.23	SCALE	AS NOTED
DRAWN	James	PROJECT	MCY16-022
DRAWING NO.		AD16-10	
		C02	
		SHEET 3	



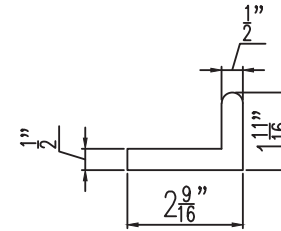
NR8-001 3/8" THK. HOT-DIP
GALVANIZED STEEL BRACKET



NR8-002 3/8" THK. HOT-DIP GALVANIZED STEEL BRACKET



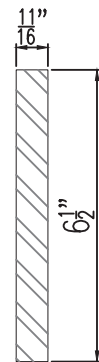
SB-01 STEEL BRACKET



STEEL		MATERIAL	Q235
PROFILE NO.	NR8-001	TREATMENT	HOT DIP GALVANIZED

PAINTING COLOR

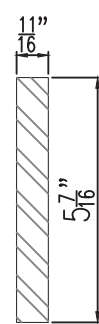
ST-1 6-1/2" X 11/16" STEEL INSERT



Q235
HOT DIP GALVANIZED

[illegible]

ST-2 5-7/16" X 11/16" STEEL INSERT



STEEL		MATERIAL
PROFILE NO.	NR8-002	TREATMENT

PAINTING COLOR

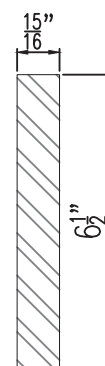
ST-3 5-1/2" X 11/16" STEEL INSERT



Q235
HOT DIP GALVANIZED

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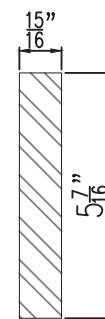
ST-1A 6-1/2 X 15/16" STEEL INSERT



STEEL		MATERIAL	Q235
PROFILE NO.	SB-01	TREATMENT	HOT DIP GALVANIZING

PAINTING COLOR

ST-2A 5-7/16" X 15/16" STEEL INSERT



STEEL		MATERIAL	Q235	STEEL		MATERIAL	Q235
PROFILE NO.	ST-1	TREATMENT	HOT DIP GALVANIZED	PROFILE NO.	ST-2	TREATMENT	HOT DIP GALVANIZED
PAINTING COLOR				PAINTING COLOR			

STEEL		MATERIAL	Q235
PROFILE NO.	ST-2	TREATMENT	HOT DIP GALVANIZED
PAINTING COLOR			

STEEL		MATERIAL	Q235
PROFILE NO.	ST-3	TREATMENT	HOT DIP GALVANIZED
PAINTING COLOR			

STEEL		MATERIAL	Q235
PROFILE NO.	ST-1A	TREATMENT	HOT DIP GALVANIZED
PAINTING COLOR			

STEEL		MATERIAL	Q235
PROFILE NO.	ST-2A	TREATMENT	HOT DIP GALVANIZED
PAINTING COLOR			

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL

REVISIONS		
NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.588.5224



www.MCYEngineering.com MCY@mcvengineering.com

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

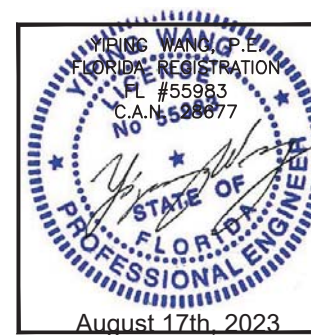
N.R. ARCHITECTURAL PRODUCTS, INC.
 4348 WESTROADS DRIVE
 WEST PALM BEACH, FL. 33407
 P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

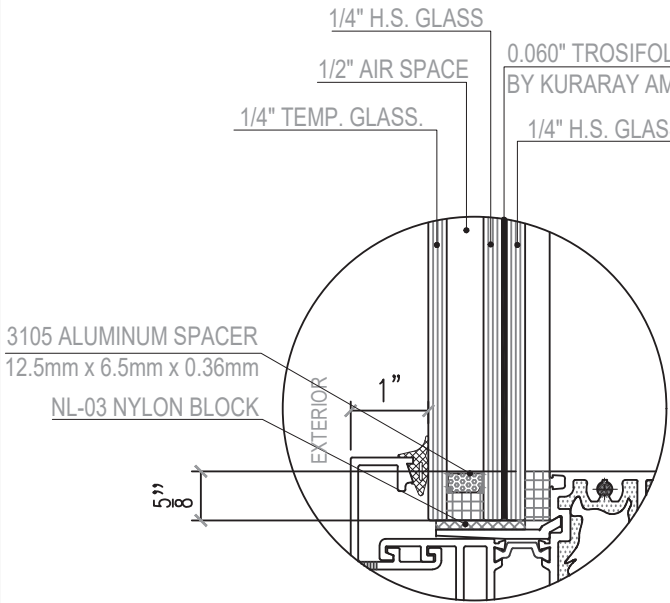
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
C02A

SHEET 3A

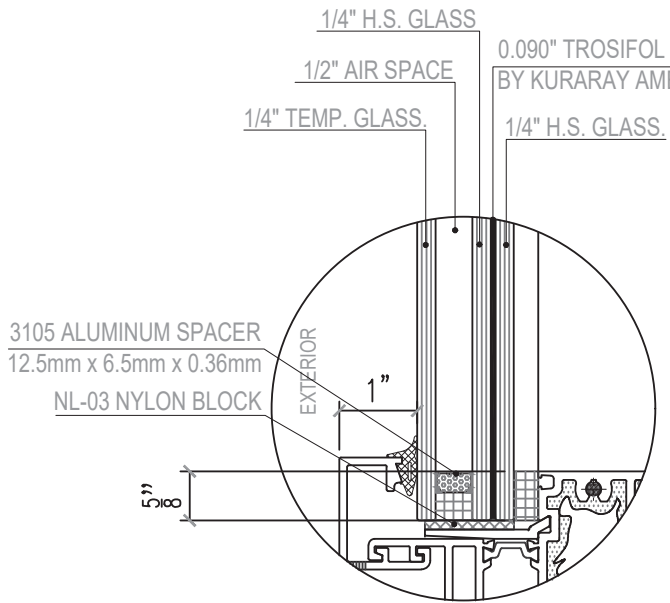


August 17th, 2023



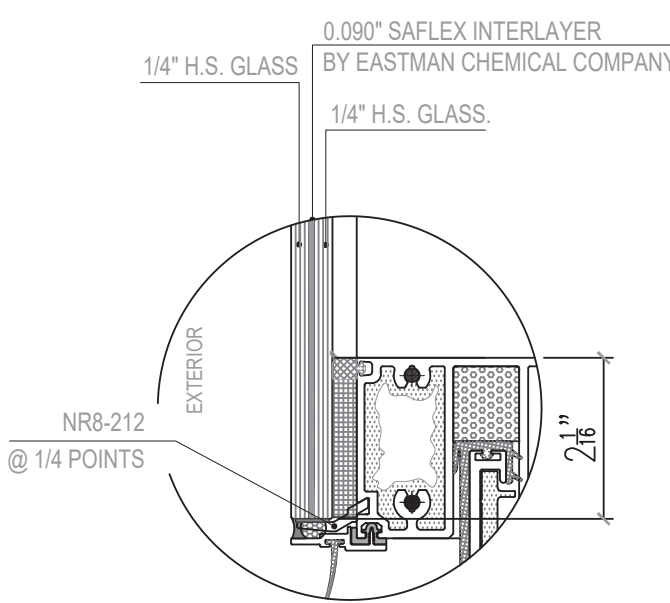
GLASS TYPE **A**

1 1/4" NOMINAL INSULATED LAMINATED GLASS



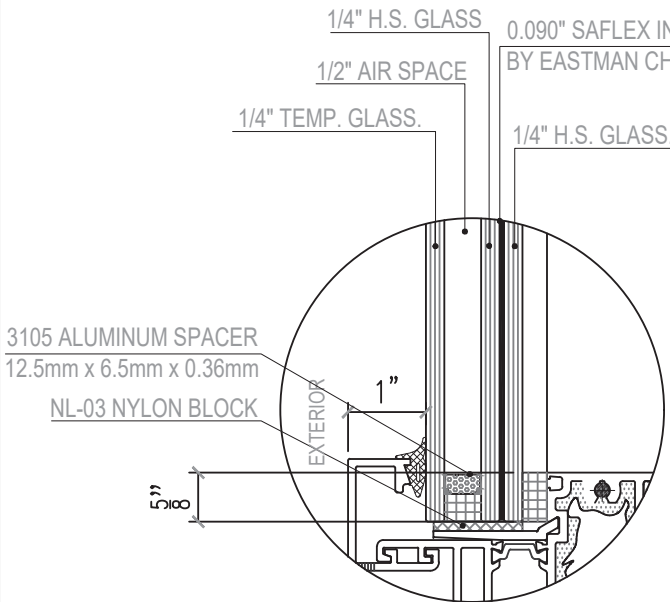
GLASS TYPE **B**

1 1/4" NOMINAL INSULATED LAMINATED GLASS



GLASS TYPE **D**

9/16" NOMINAL LAMINATED GLASS

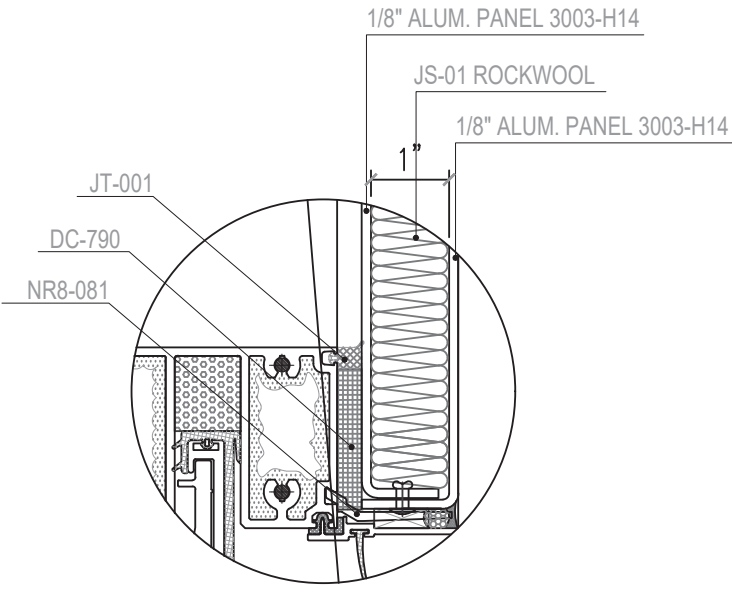


GLASS TYPE **C**

1 1/4" NOMINAL INSULATED LAMINATED GLASS

9/16" THK. LAMINATED GLASS					
GLASS TYPE	D.L.O.W.	D.L.O.H.	GLASS AREA FT ²	DESIGN LOAD	
	IN	IN		(+) PSF	(-) PSF
D	57.70	92.50	37.06	100	130

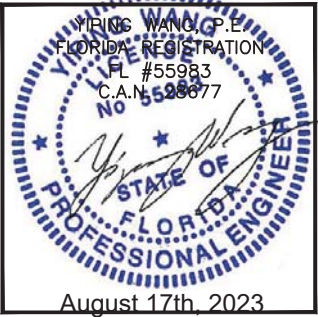
1 1/4" THK. INSULATED LAMINATED GLASS					
GLASS TYPE	D.L.O.W.	D.L.O.H.	GLASS AREA FT ²	DESIGN LOAD	
	IN	IN		(+) PSF	(-) PSF
B	51.20	69.50	24.71	92	168
A	56.50	140.6	55.2	100	140
C	57.70	92.50	37.06	100	130



ALUMINUM TYPE **AL1**

1 1/4" NOMINAL OVERALL
MAX. DLO SIZE = 5' 3-1/2" W X 10' 3-11/16" H
Pd = ± 75 PSF

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



REVISIONS

NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.568.5224
www.MCYEngineering.com MCY@mcysengineering.com

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

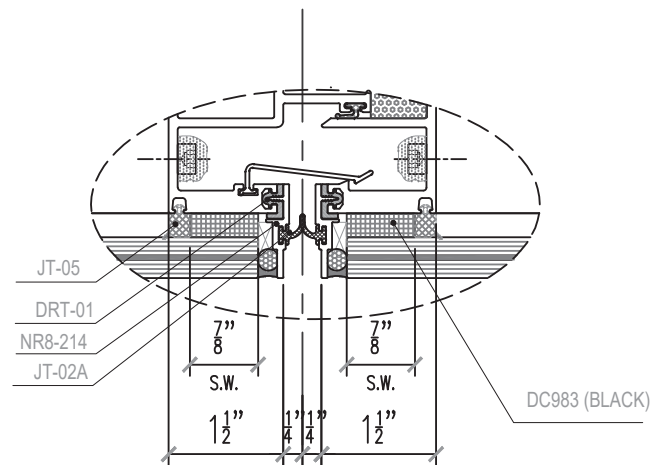
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

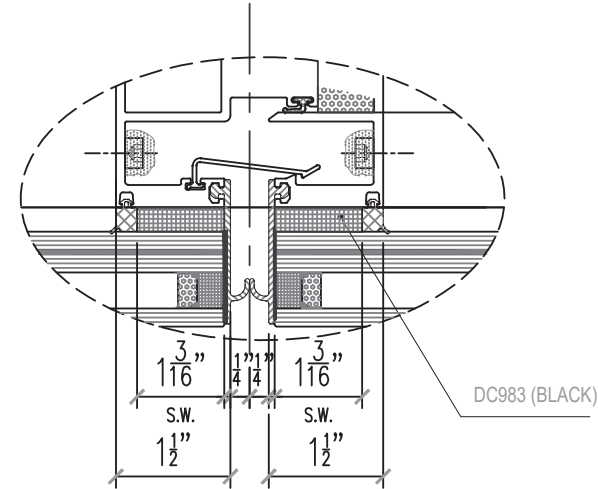
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
G1

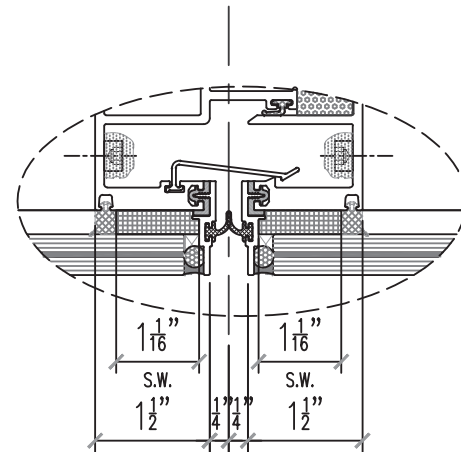
SHEET 4A



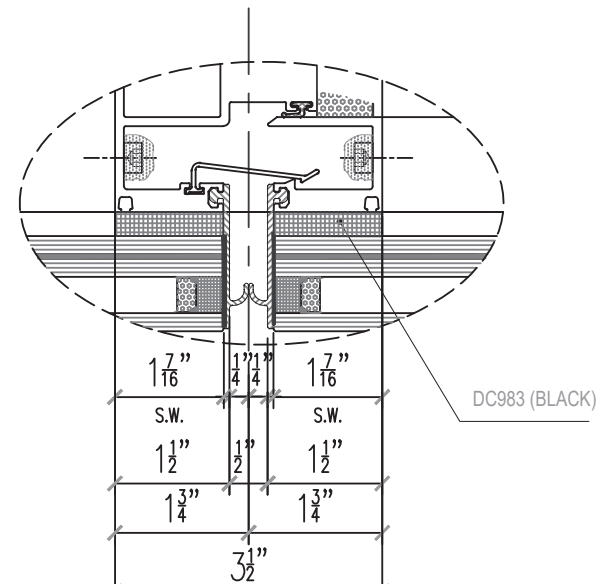
7/8" SILICONE WIDTH



1 3/16" SILICONE WIDTH



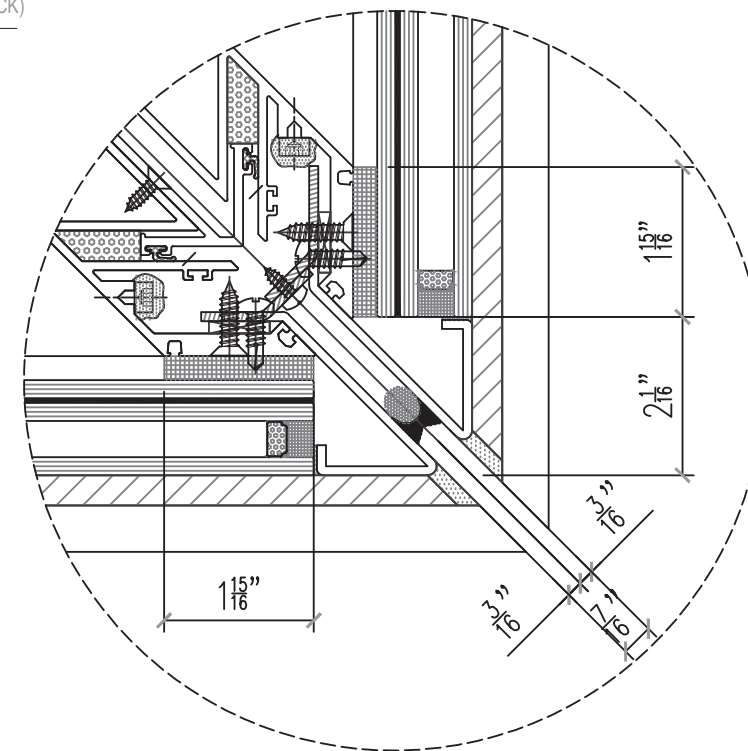
1 1/16" SILICONE WIDTH



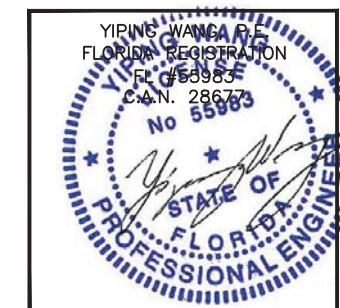
1 7/16" SILICONE WIDTH

NOTE:
DIFFERENT GLASS TYPES ARE SHOWN,
GLASS OPTION IS INTERCHANGEABLE.

SILICONE CAPACITY (PSF)					
SILICONE WIDTH FRAME WIDTH (F.W.)	7/8"	1 1/16"	1 3/16"	1 7/16"	1 15/16" CORNER MULLION
30"	168.0	168.0	168.0	168.0	168.0
36"	140.0	168.0	168.0	168.0	168.0
42"	120.0	145.7	164.5	168.0	168.0
48"	105.0	127.5	144.0	168.0	168.0
54"	93.3	113.3	128.0	153.3	168.0
60"	84.0	102.0	115.2	138.0	168.0
66"	76.4	92.7	104.7	125.5	168.0
72"	70.0	85.0	96.0	115.0	168.0



1 15/16" SILICONE WIDTH



REVISIONS	
NO.	DATE
1	08.10.23
2	FBC 2023
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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

DATE 08.10.23
SCALE AS NOTED
DRAWN James
PROJECT MCY16-022

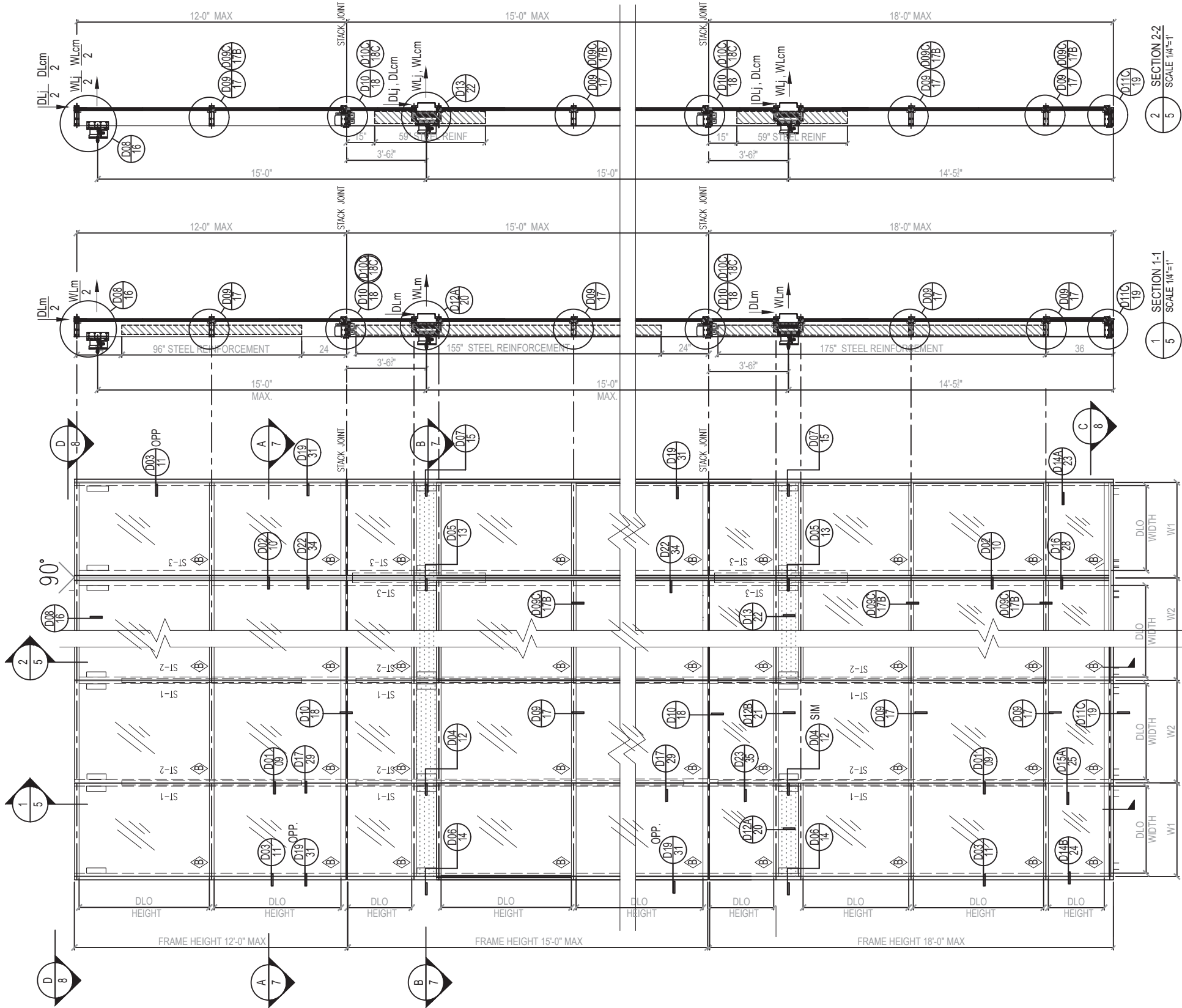
DRAWING NO.
AD16-10
G2

SHEET 4B

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.

MAXIMUM WIND AND DEAD LOAD AT ANCHORS					
MULLION		JAMB		CORNER MULLION (EACH SIDE)	
W _{Lm}	D _{Lm}	W _{Lj}	D _{Lj}	W _{Lcm}	D _{Lcm}
LB	LB	LB	LB	LB	LB
14,000	1,100	7,000	550	7,000	550

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO
VERIFY WITH ENGINEER OF RECORD THAT THE STRUCTURE
WHERE ANCHOR IS ATTACHED IS PROPERLY DESIGNED TO TAKE
THE LOADS IMPOSED BY THE CURTAIN WALL SYSTEM.
REFER TO THE ANCHOR LOADS SHOWN IN ABOVE CHART



MAXIMUM WIND AND DEAD LOAD AT ANCHORS						
MULLION			JAMB		CORNER MULLION (EACH SIDE)	
WLcm	DLcm		WLj	DLj	WLcm	DLcm
LB	LB		LB	LB	LB	LB
6850	900	4330	450		-	-

The image displays three structural drawings of bridge deck sections, labeled 12'-0" MAX, 15'-0" MAX, and 18'-0" MAX. Each drawing shows a cross-section of the deck with reinforcement details, dimensions, and component labels.

12'-0" MAX Section:

- Overall width: 12'-0" MAX.
- Span length: 15'-0" MAX (H).
- Reinforcement: 175" STEEL REINFORCEMENT.
- Labels: DLO HEIGHT, DLO WIDTH, W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63, W64, W65, W66, W67, W68, W69, W70, W71, W72, W73, W74, W75, W76, W77, W78, W79, W80, W81, W82, W83, W84, W85, W86, W87, W88, W89, W90, W91, W92, W93, W94, W95, W96, W97, W98, W99, W100, W101, W102, W103, W104, W105, W106, W107, W108, W109, W110, W111, W112, W113, W114, W115, W116, W117, W118, W119, W120, W121, W122, W123, W124, W125, W126, W127, W128, W129, W130, W131, W132, W133, W134, W135, W136, W137, W138, W139, W140, W141, W142, W143, W144, W145, W146, W147, W148, W149, W150, W151, W152, W153, W154, W155, W156, W157, W158, W159, W160, W161, W162, W163, W164, W165, W166, W167, W168, W169, W170, W171, W172, W173, W174, W175, W176, W177, W178, W179, W180, W181, W182, W183, W184, W185, W186, W187, W188, W189, W190, W191, W192, W193, W194, W195, W196, W197, W198, W199, W200, W201, W202, W203, W204, W205, W206, W207, W208, W209, W210, W211, W212, W213, W214, W215, W216, W217, W218, W219, W220, W221, W222, W223, W224, W225, W226, W227, W228, W229, W230, W231, W232, W233, W234, W235, W236, W237, W238, W239, W240, W241, W242, W243, W244, W245, W246, W247, W248, W249, W250, W251, W252, W253, W254, W255, W256, W257, W258, W259, W260, W261, W262, W263, W264, W265, W266, W267, W268, W269, W270, W271, W272, W273, W274, W275, W276, W277, W278, W279, W280, W281, W282, W283, W284, W285, W286, W287, W288, W289, W290, W291, W292, W293, W294, W295, W296, W297, W298, W299, W300, W301, W302, W303, W304, W305, W306, W307, W308, W309, W310, W311, W312, W313, W314, W315, W316, W317, W318, W319, W320, W321, W322, W323, W324, W325, W326, W327, W328, W329, W330, W331, W332, W333, W334, W335, W336, W337, W338, W339, W340, W341, W342, W343, W344, W345, W346, W347, W348, W349, W350, W351, W352, W353, W354, W355, W356, W357, W358, W359, W360, W361, W362, W363, W364, W365, W366, W367, W368, W369, W370, W371, W372, W373, W374, W375, W376, W377, W378, W379, W380, W381, W382, W383, W384, W385, W386, W387, W388, W389, W390, W391, W392, W393, W394, W395, W396, W397, W398, W399, W400, W401, W402, W403, W404, W405, W406, W407, W408, W409, W410, W411, W412, W413, W414, W415, W416, W417, W418, W419, W420, W421, W422, W423, W424, W425, W426, W427, W428, W429, W430, W431, W432, W433, W434, W435, W436, W437, W438, W439, W440, W441, W442, W443, W444, W445, W446, W447, W448, W449, W450, W451, W452, W453, W454, W455, W456, W457, W458, W459, W460, W461, W462, W463, W464, W465, W466, W467, W468, W469, W470, W471, W472, W473, W474, W475, W476, W477, W478, W479, W480, W481, W482, W483, W484, W485, W486, W487, W488, W489, W490, W491, W492, W493, W494, W495, W496, W497, W498, W499, W500, W501, W502, W503, W504, W505, W506, W507, W508, W509, W510, W511, W512, W513, W514, W515, W516, W517, W518, W519, W520, W521, W522, W523, W524, W525, W526, W527, W528, W529, W530, W531, W532, W533, W534, W535, W536, W537, W538, W539, W540, W541, W542, W543, W544, W545, W546, W547, W548, W549, W550, W551, W552, W553, W554, W555, W556, W557, W558, W559, W560, W561, W562, W563, W564, W565, W566, W567, W568, W569, W570, W571, W572, W573, W574, W575, W576, W577, W578, W579, W580, W581, W582, W583, W584, W585, W586, W587, W588, W589, W590, W591, W592, W593, W594, W595, W596, W597, W598, W599, W600, W601, W602, W603, W604, W605, W606, W607, W608, W609, W610, W611, W612, W613, W614, W615, W616, W617, W618, W619, W620, W621, W622, W623, W624, W625, W626, W627, W628, W629, W630, W631, W632, W633, W634, W635, W636, W637, W638, W639, W640, W641, W642, W643, W644, W645, W646, W647, W648, W649, W650, W651, W652, W653, W654, W655, W656, W657, W658, W659, W660, W661, W662, W663, W664, W665, W666, W667, W668, W669, W670, W671, W672, W673, W674, W675, W676, W677, W678, W679, W680, W681, W682, W683, W684, W685, W686, W687, W688, W689, W690, W691, W692, W693, W694, W695, W696, W697, W698, W699, W700, W701, W702, W703, W704, W705, W706, W707, W708, W709, W710, W711, W712, W713, W714, W715, W716, W717, W718, W719, W720, W721, W722, W723, W724, W725, W726, W727, W728, W729, W730, W731, W732, W733, W734, W735, W736, W737, W738, W739, W740, W741, W742, W743, W744, W745, W746, W747, W748, W749, W750, W751, W752, W753, W754, W755, W756, W757, W758, W759, W760, W761, W762, W763, W764, W765, W766, W767, W768, W769, W770, W771, W772, W773, W774, W775, W776, W777, W778, W779, W780, W781, W782, W783, W784, W785, W786, W787, W788, W789, W790, W791, W792, W793, W794, W795, W796, W797, W798, W799, W800, W801, W802

1 SECTION 1-1
5B SCALE 1/4"=1'

JAMB	MULLION	MULTIPLE SPAN FRAME		
		MULLION SPACING (W)	FRAME HEIGHT (H)	MAX DESIGN LOAD
		(in)	(in)	+/- (PSF)
		60"		79
		54"	180"	87.8
		48"		98.8
		47.5"		100
		60"	180"	100

• FOR GLASS CAPACITY SEE CHART ON SHEET 4A

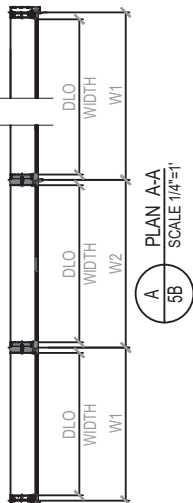
- $W = \frac{W1 + W2}{2}$
- H - MAX. DISTANCE FROM SUPPORTING ANCHOR TO NEXT SUPPORTING ANCHOR

YIRING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N.#52877

August 17th, 2023

August 17th, 2023

MULTIPLE SPAN ELEVATION OF CURTAIN WALL
(WITH GLASS TYPE A OPTION SHOWN)



A PLAN A-A
5B SCALE 1/4"=1'

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

4348 WESTROADS DRIVE

4348 WESTROADS DRIVE

WEST PALM BEACH, FL. 33407

P: (561) 844 - 1121 F: (561) 844 - 6131

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

FLORIDA APPROVAL:
FL #20149.3

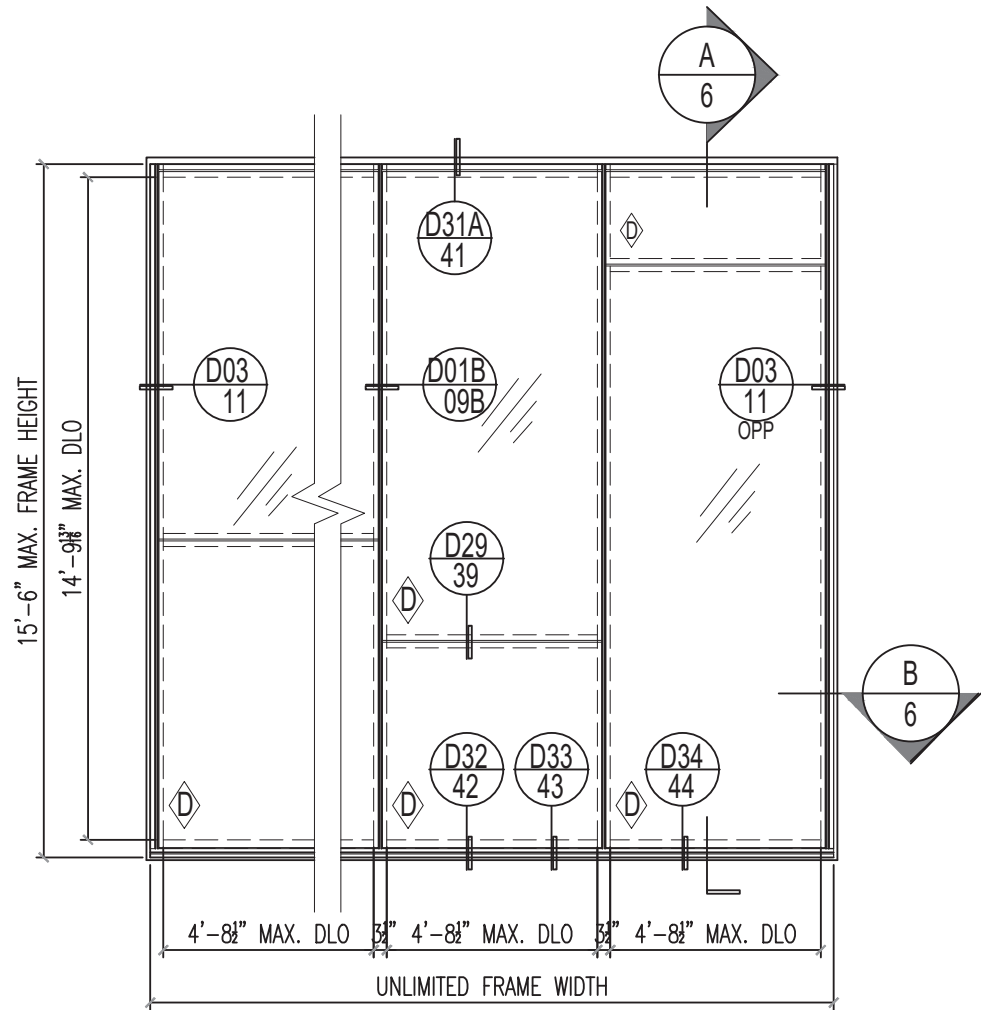
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
E01B

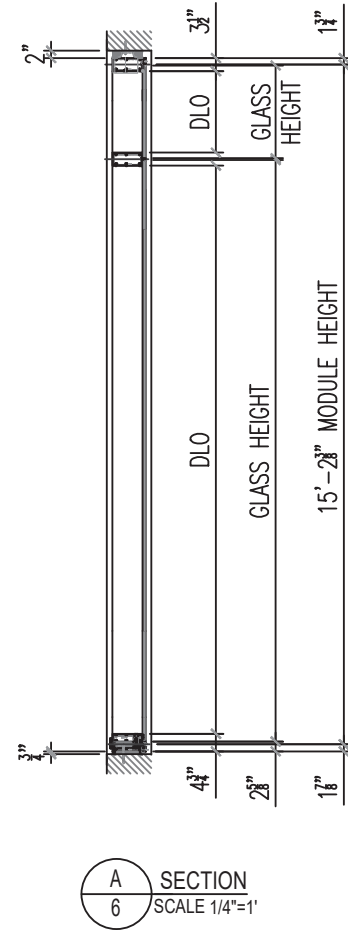
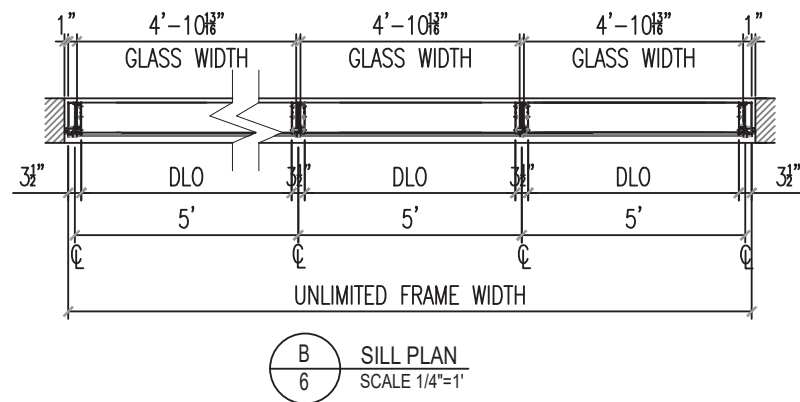
SHEET 5B

REVISIONS		
NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

www.MCYEngineering.com MCY@mcysengineering.com

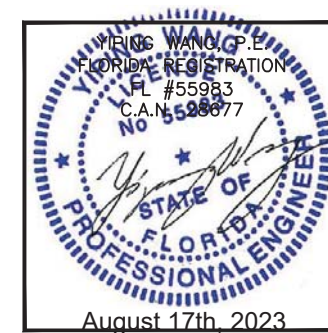


SINGLE SPAN ELEVATION OF CURTAIN WALL
(WITH GLASS TYPE D SHOWN)

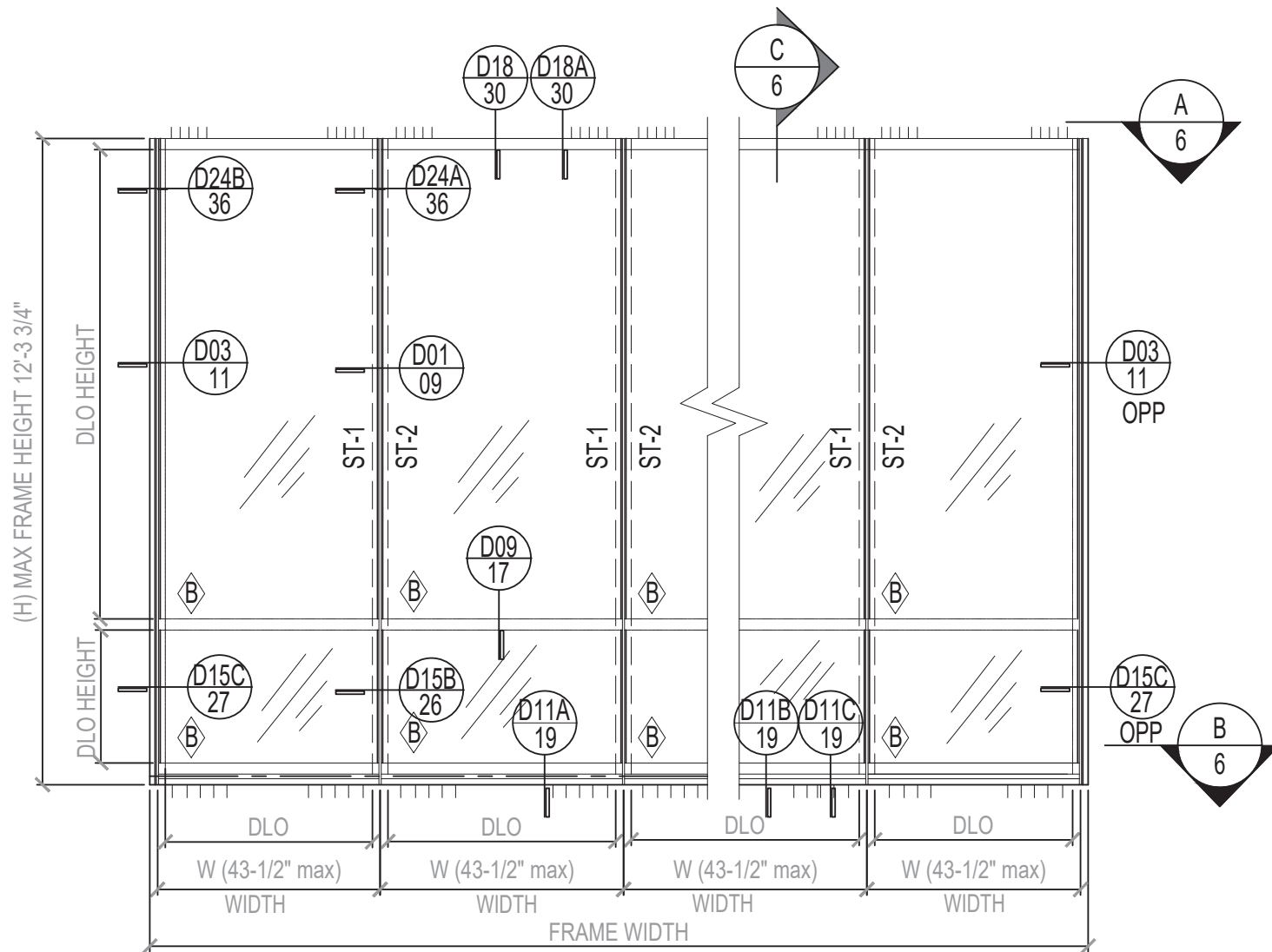


MULLION SPACING W	OVERALL FRAME HEIGHT (F.H.)	ACTUAL MULL LENGTH (M SPAN)	ALLOWABLE DESIGN LOAD	
			(+)PSF	(-)PSF
IN		IN		
48	12'-0"	140.375	100.0	100.0
54			100.0	100.0
60			100.0	100.0
66			100.0	100.0
72			100.0	100.0
78			94.7	94.7
48	13'-0"	152.375	100.0	100.0
54			100.0	100.0
60			100.0	100.0
66			95.0	95.0
72			87.0	87.0
48	13'-6"	158.375	100.0	100.0
54			100.0	100.0
60			96.7	96.7
66			87.9	87.9
48	14'-0"	164.375	100.0	100.0
54			99.7	99.7
60			89.8	89.8
66			81.6	81.6
48	14'-6"	170.375	100.0	100.0
54			90.9	90.9
60			81.9	81.9
42	15'-0"	176.375	100.0	100.0
48			92.2	92.2
54			82.0	82.0
60			73.8	73.8
39	15'-6"	182.375	100.0	100.0
42			95.3	95.3
48			83.4	83.4
54			74.2	74.2
60			66.7	66.7
48	8'-4 5/8"	97	100.0	130.0
54			100.0	130.0
61.1875			100.0	130.0

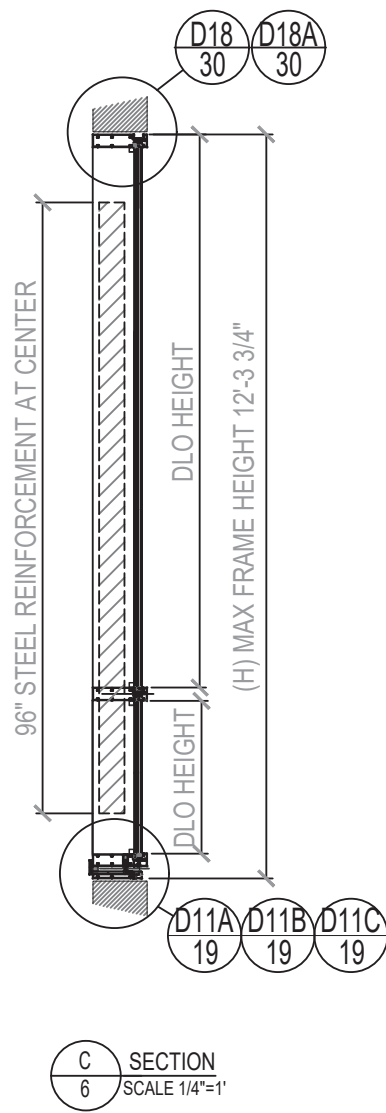
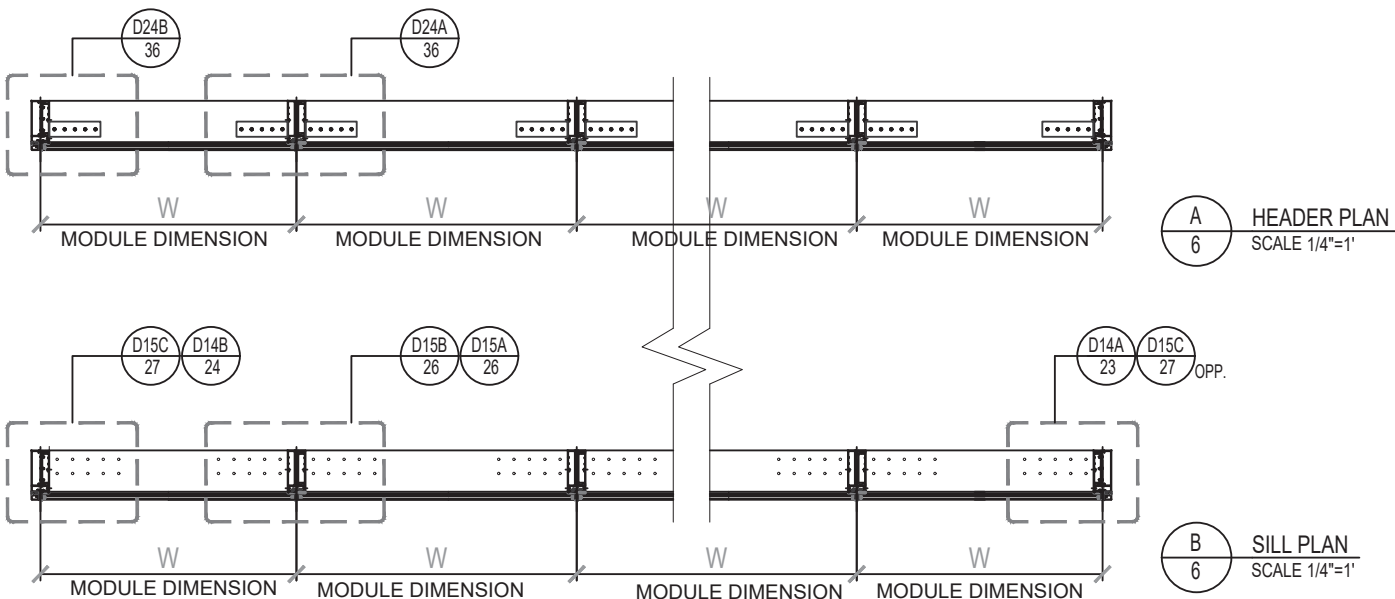
FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



REVISONS		NO. DATE DESCRIPTION	
		R3	08.10.23 FBC 2023
MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. STE. 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.588.5224 www.MCYEngineering.com MCY@mcysengineering.com			
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.) N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407 P: (561) 844 - 1121 F: (561) 844 - 6131			
FLORIDA APPROVAL: FL #20149.3			
DATE	08.10.23		
SCALE	AS NOTED		
DRAWN	James		
PROJECT	MCY16-022		
DRAWING NO. AD16-10 E02			
SHEET 6			

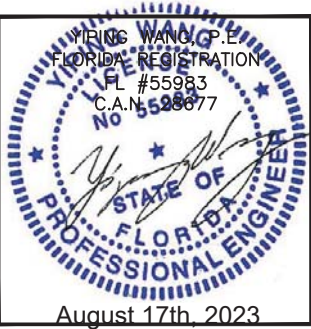


SINGLE SPAN ELEVATION OF CURTAIN WALL
(WITH GLASS TYPE B SHOWN)



SINGLE SPAN FRAME DESIGN LOAD			
MULLION TRIBUTARY WIDTH (W) (in)	FRAME HEIGHT (H) (in)	MAX DESIGN LOAD	
		POSITIVE (PSF)	NEGATIVE (PSF)
43-1/2"	147.25"	+92	-143
36.8"	147.25"	+92	-168
42"	132"	+92	-146
48"	132"	+92	-128
42"	120"	+92	-162
48"	120"	+92	-142
42"	108"	+92	-158
48"	108"	+92	-158

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



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NO.	DATE	DESCRIPTION
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GLAZING CONSULTANTS

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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

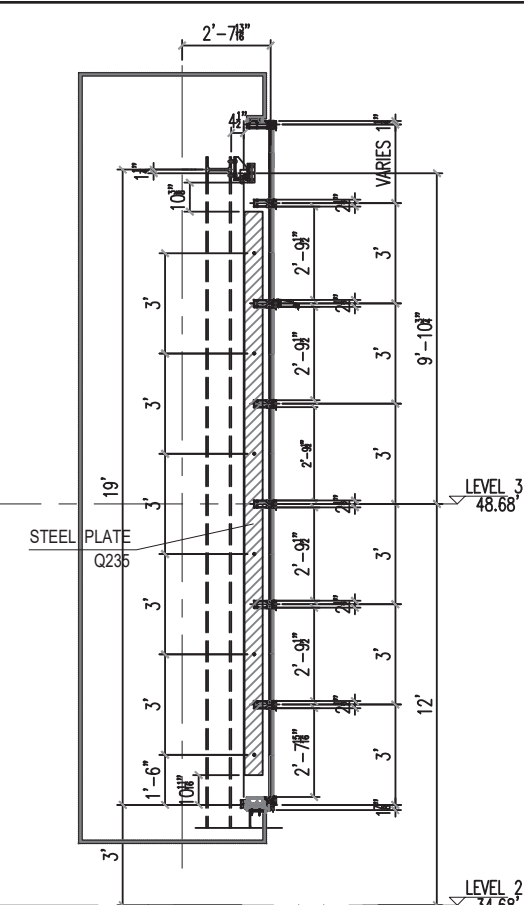
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
E02A

SHEET 6A



3 SECTION 3-3
E02A SCALE 1/4"=1'



YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #555983
C.A.N. 558677

August 17th, 2023

M C Y		REVISIONS		
		NO.	DATE DESCRIPTION	
		R3	08.10.23	FEC 2023

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GLAZING CONSULTANTS	
8501 SW 124 AVE. STE. 205A	P: 305.271.0117
MIAMI, FL. 33183	F: 305.588.5224
www.MCYEngineering.com	MCY@mcycengineering.com

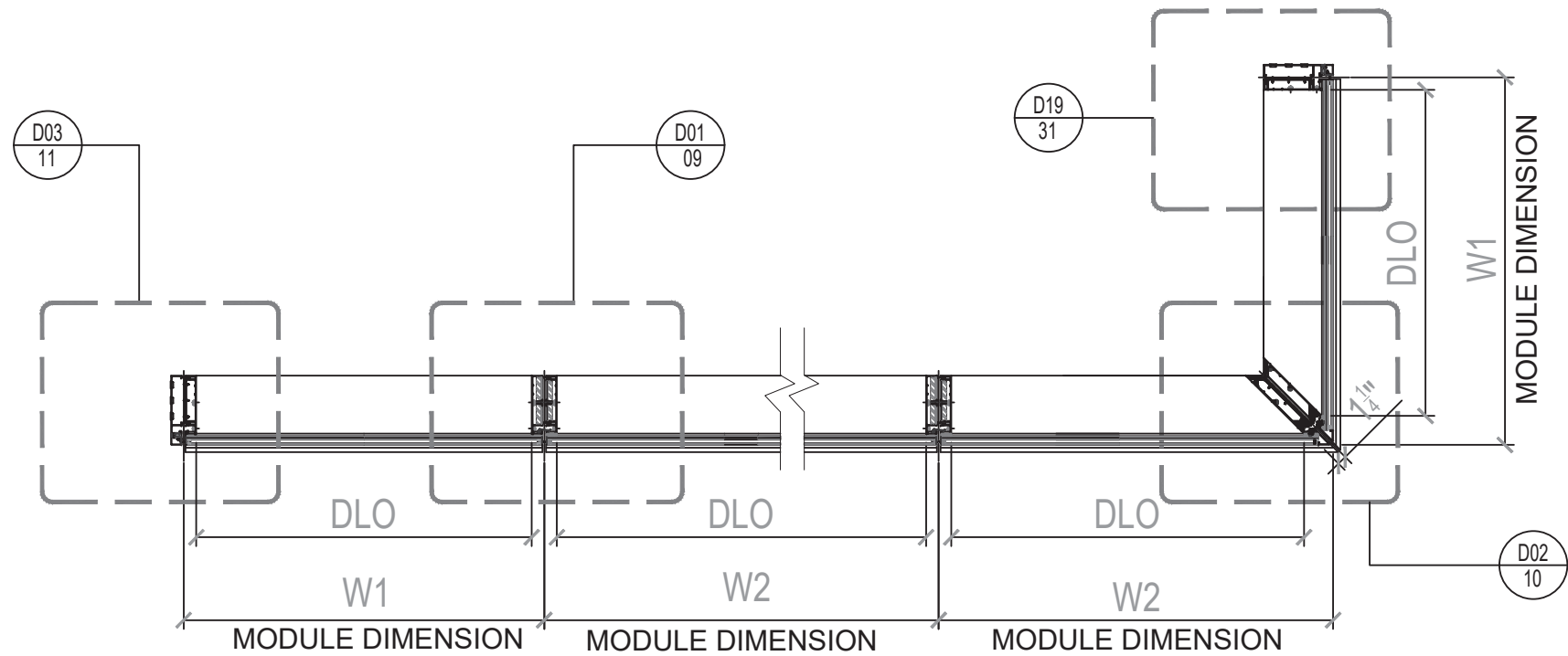
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407
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FLORIDA APPROVAL:	
FL #20149.3	

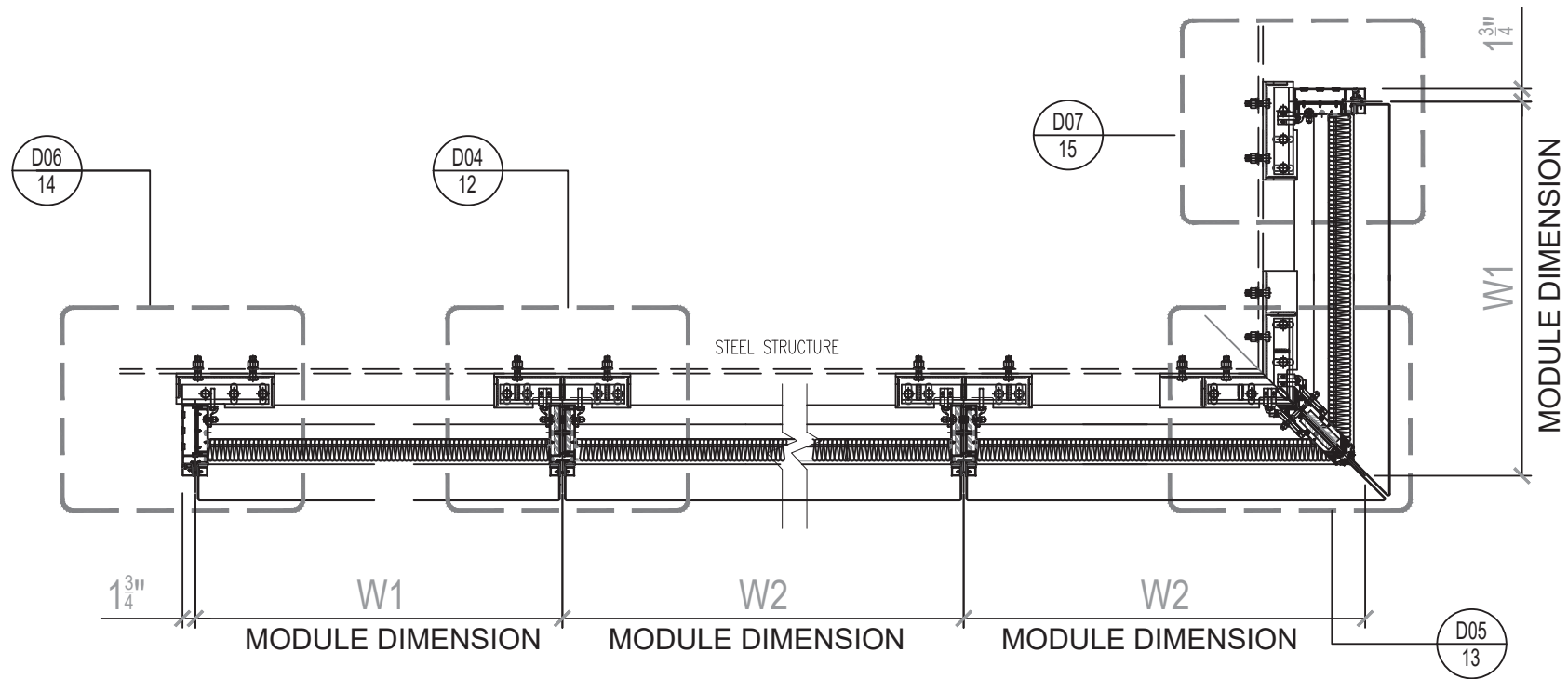
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
E02B

SHEET 6B



A
7 PLAN A-A
SCALE 1/4"=1'



B
7 PLAN B-B
SCALE 1/4"=1'

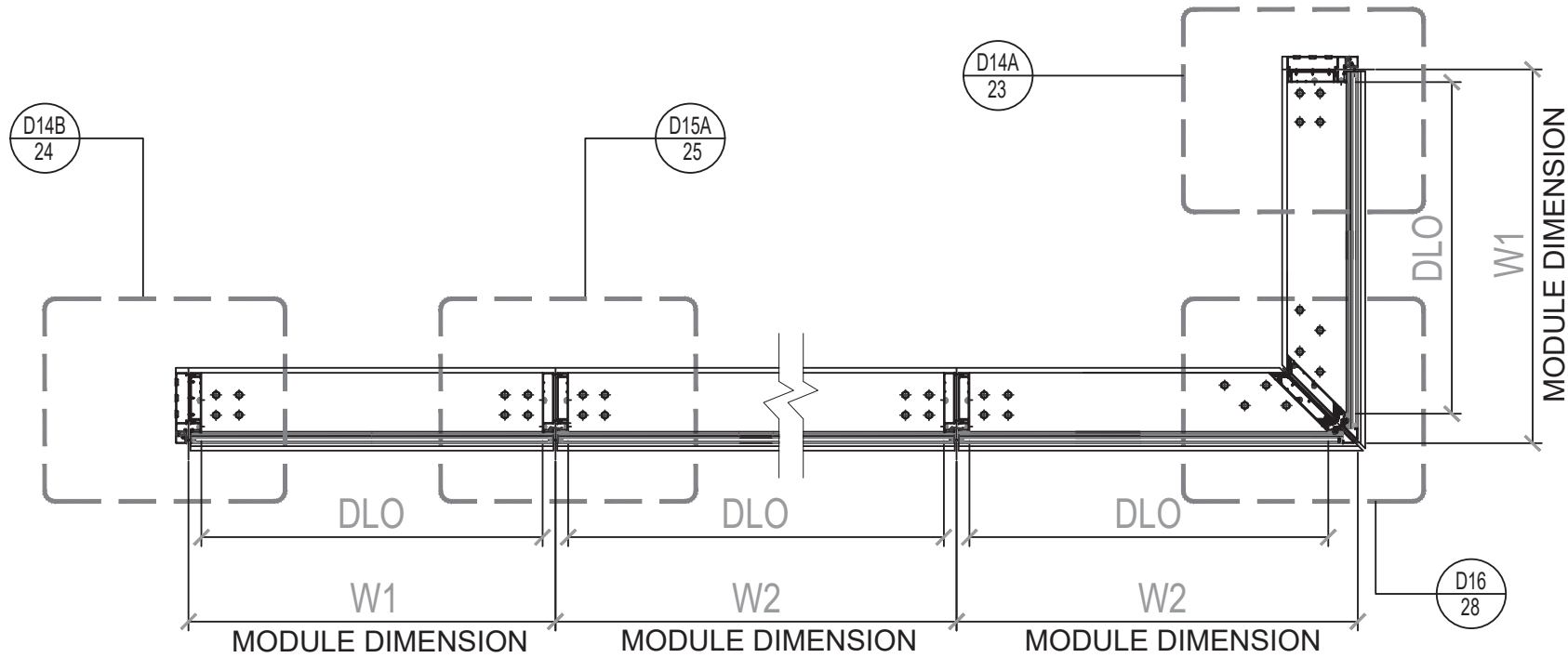


SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

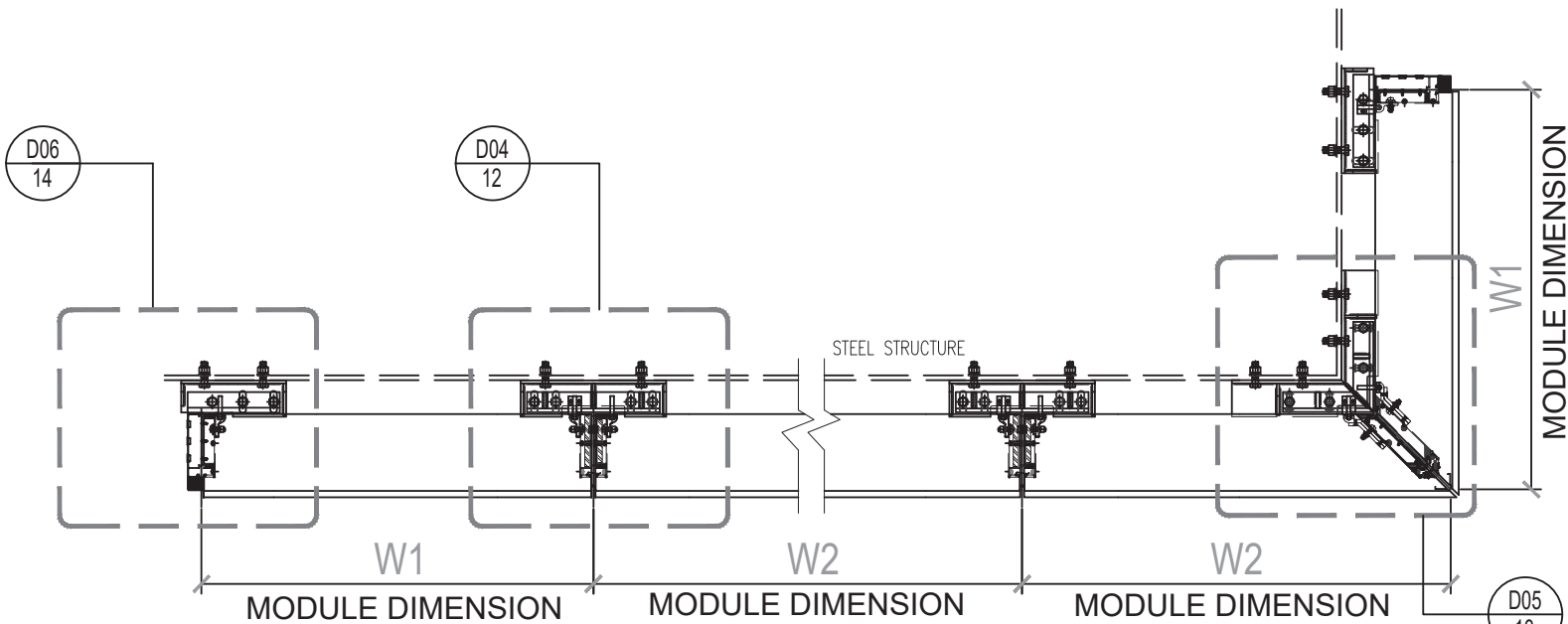
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 PM01	
SHEET 7	

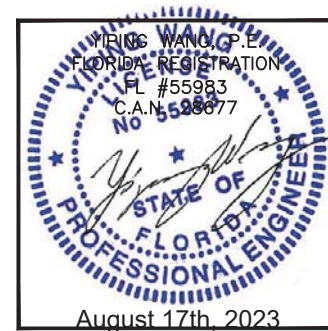
M C Y MCY ENGINEERING, INC. GLAZING CONSULTANTS		
8501 SW 124 AVE. STE. 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.588.5224		
www.MCYEngineering.com MCY@mcyeengineering.com		
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NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023



C
8 PLAN C-C
SCALE 1/4"=1'



D
8 PLAN D-D
SCALE 1/4"=1'

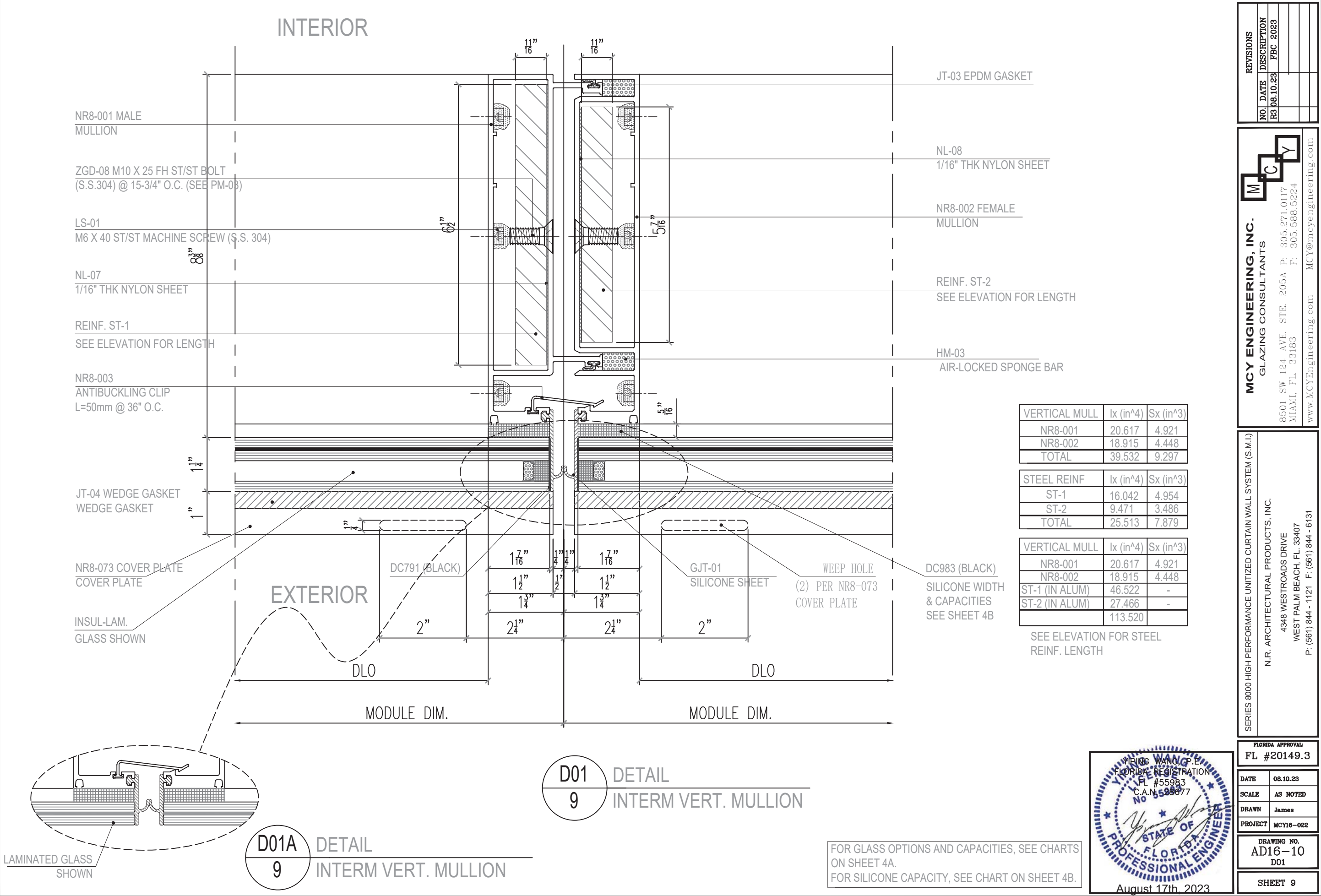


SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

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4348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 PM02	
SHEET 8	

M C Y MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. STE. 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.588.5224 www.MCYEngineering.com MCY@mcyengineering.com			<table><tr><th colspan="2">REVISIONS</th></tr><tr><th>NO.</th><th>DATE DESCRIPTION</th></tr><tr><td>R3</td><td>08.10.23 FBC 2023</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>		REVISIONS		NO.	DATE DESCRIPTION	R3	08.10.23 FBC 2023						
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R3	08.10.23 FBC 2023															



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GLAZING CONSULTANTS

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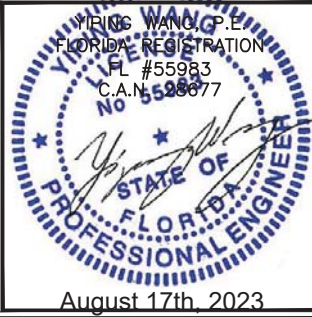
N.R. ARCHITECTURAL PRODUCTS, INC.
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WEST PALM BEACH, FL 33407
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FLORIDA APPROVAL:
FL #20149.3

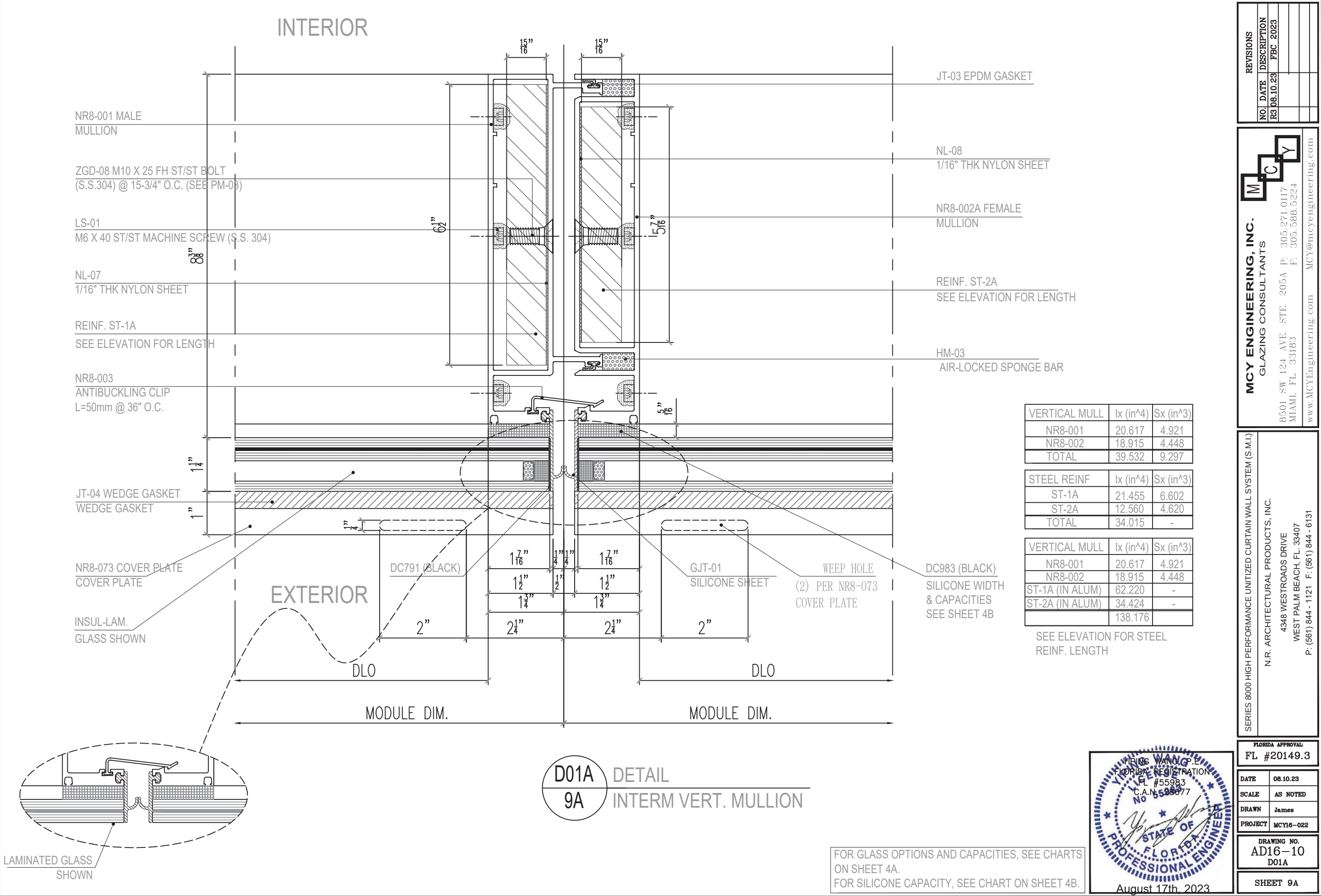
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

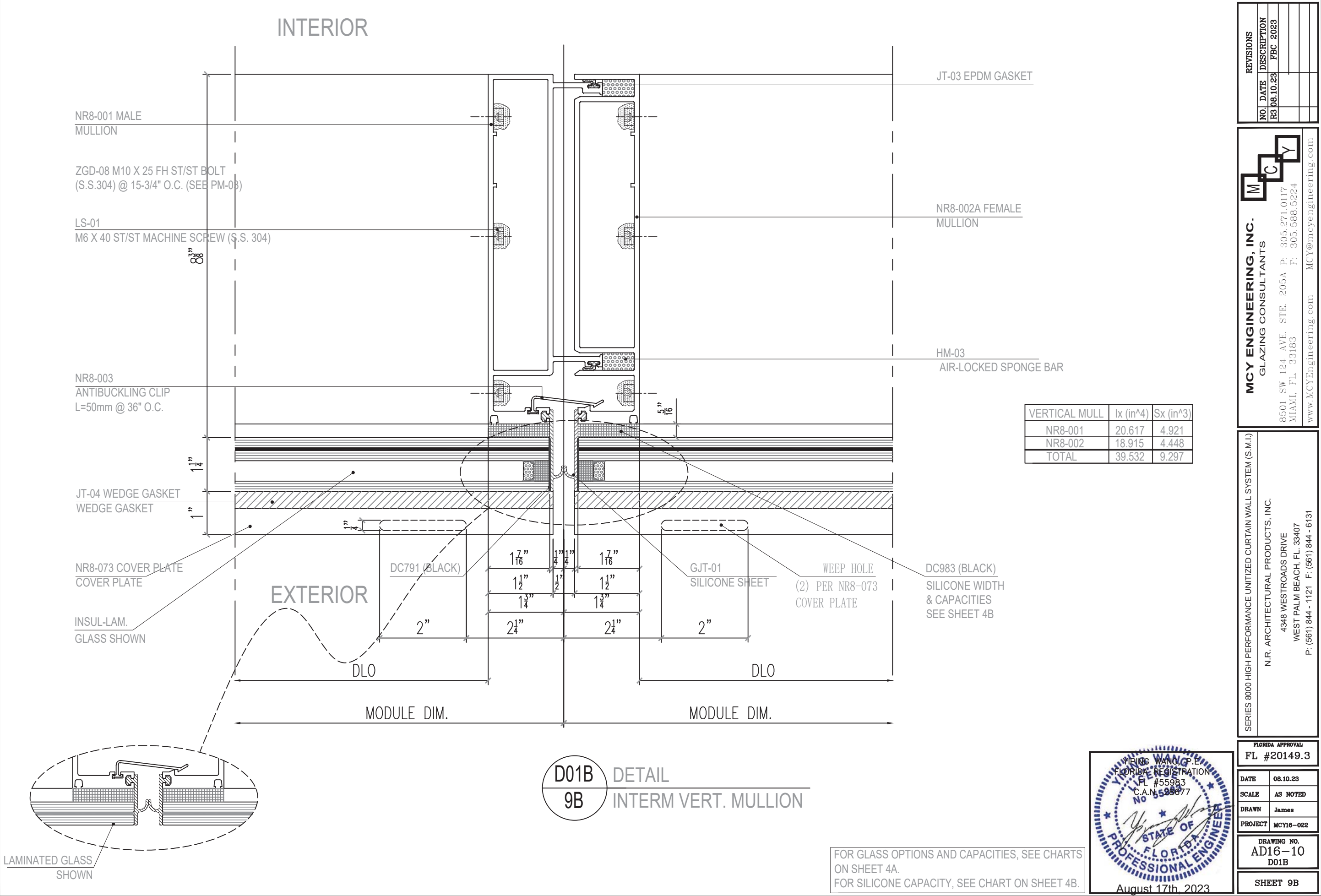
DRAWING NO.
AD16-10
D01

SHEET 9



August 17th, 2023





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NO.	DESCRIPTION
R3	08.10.23 FBC 2023

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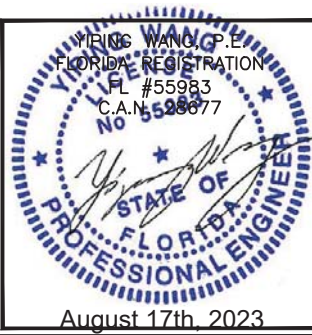
ENGINEERING, INC.

GLAZING CONSULTANTS

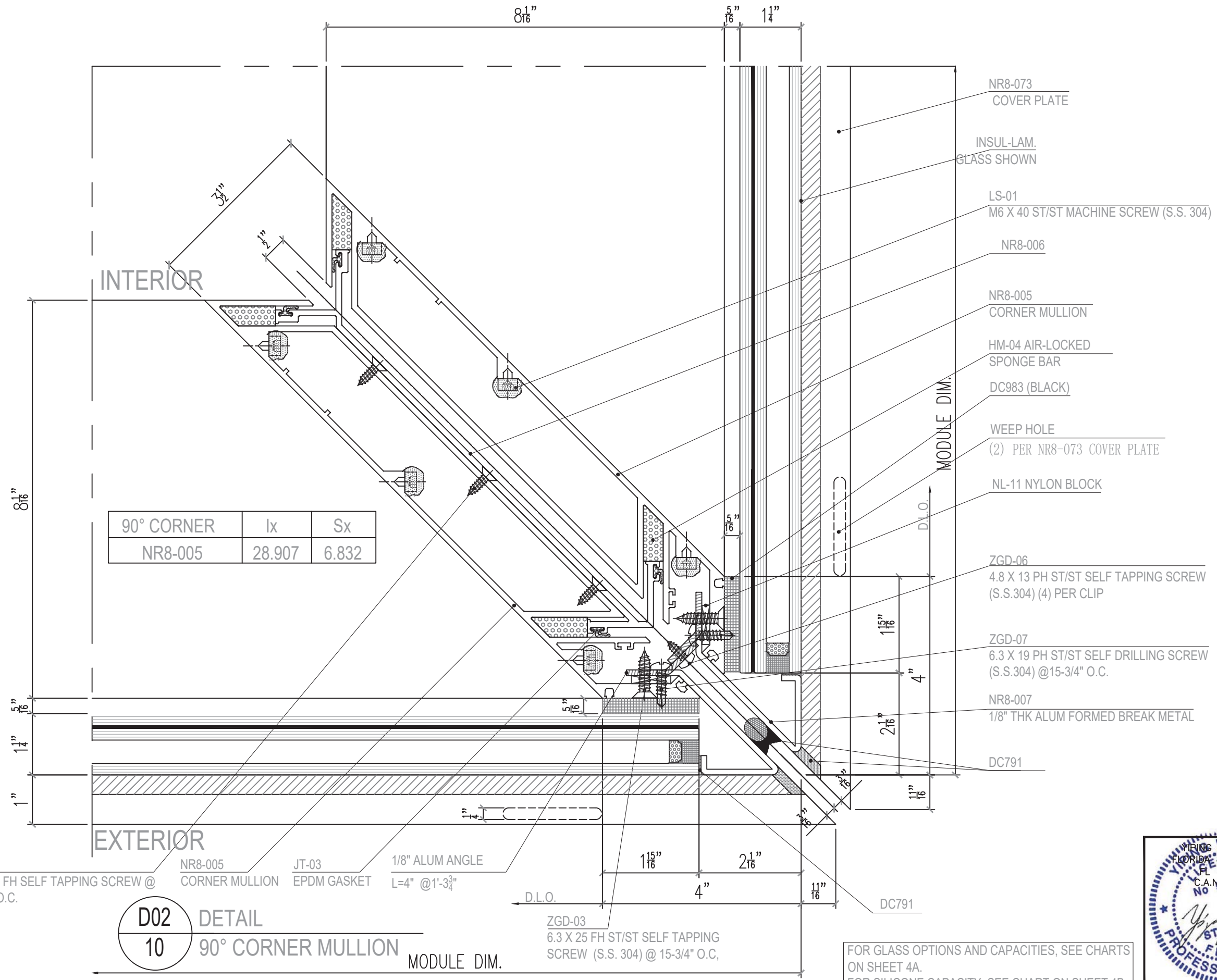
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.568.5224
www.MCYEngineering.com MCY@mcyengineering.com

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

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4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131



FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



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FBC 2023	

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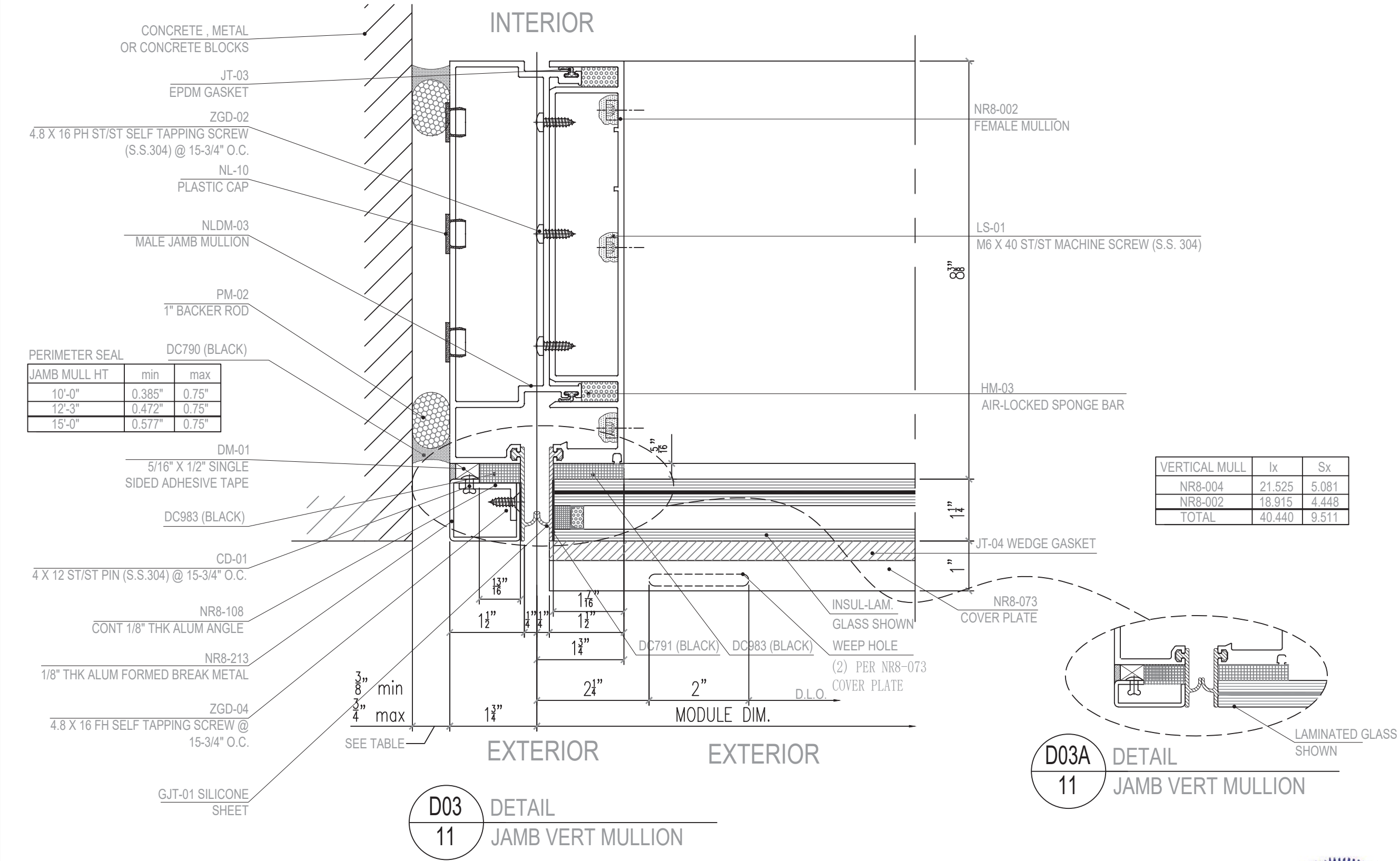
FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D02	
SHEET 10	

YOUNG WANG
P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 559877

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

August 17th, 2023

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



PERIMETER SEAL DC790 (BLACK)

JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"

VERTICAL MULL	Ix	Sx
NR8-004	21.525	5.081
NR8-002	18.915	4.448
TOTAL	40.440	9.511

D03A 11
DETAIL
JAMB VERT MULLION

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.

YOUNG WANG
P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 5528677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

August 17th, 2023

REVISIONS

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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

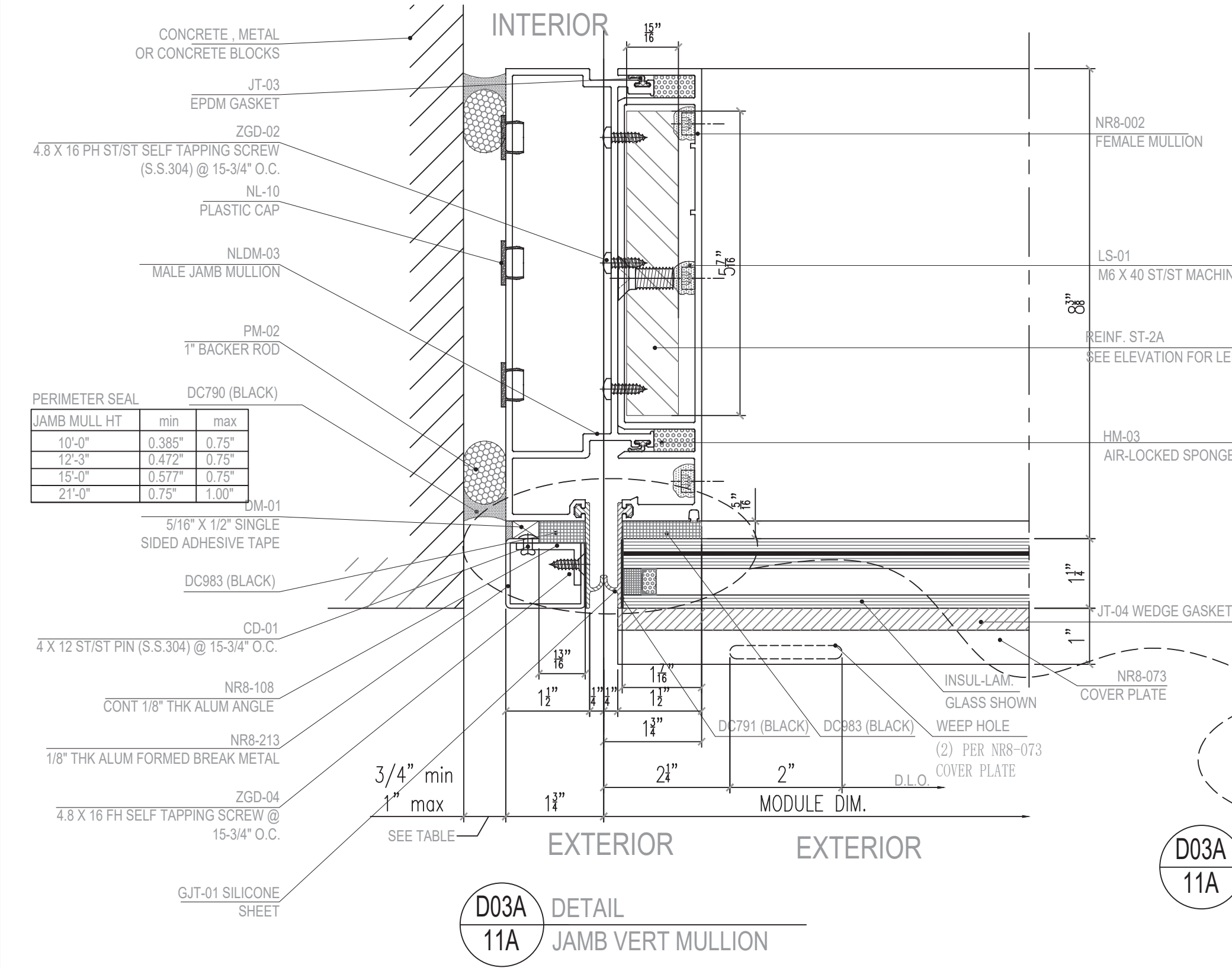
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
D03

SHEET 11



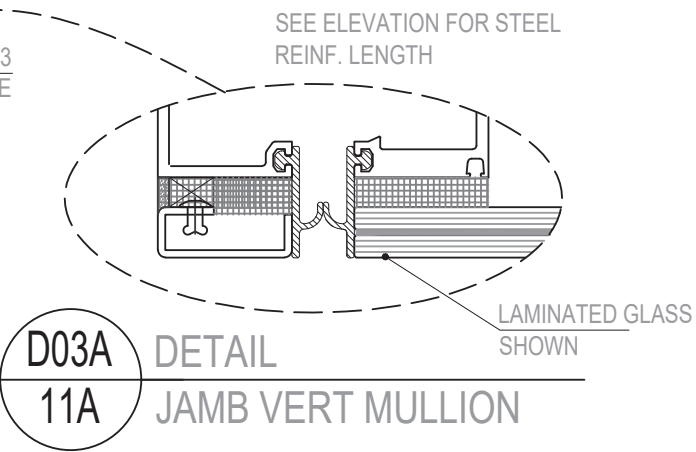
PERIMETER SEAL DC790 (BLACK)

JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"
21'-0"	0.75"	1.00"

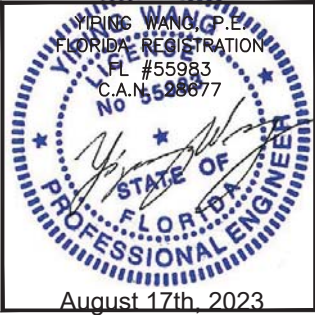
VERTICAL MULL	Ix (in^4)	Sx (in^3)
NR8-004	21.525	5.081
NR8-002	18.915	4.448
TOTAL	40.440	9.511

STEEL REINF	Ix (in^4)	Sx (in^3)
ST-2A	12.560	4.620

VERTICAL MULL	Ix (in^4)	Sx (in^3)
NR8-004	21.525	5.081
NR8-002	18.915	4.448
ST-2A (IN ALUM)	34.424	-
	76.864	



FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



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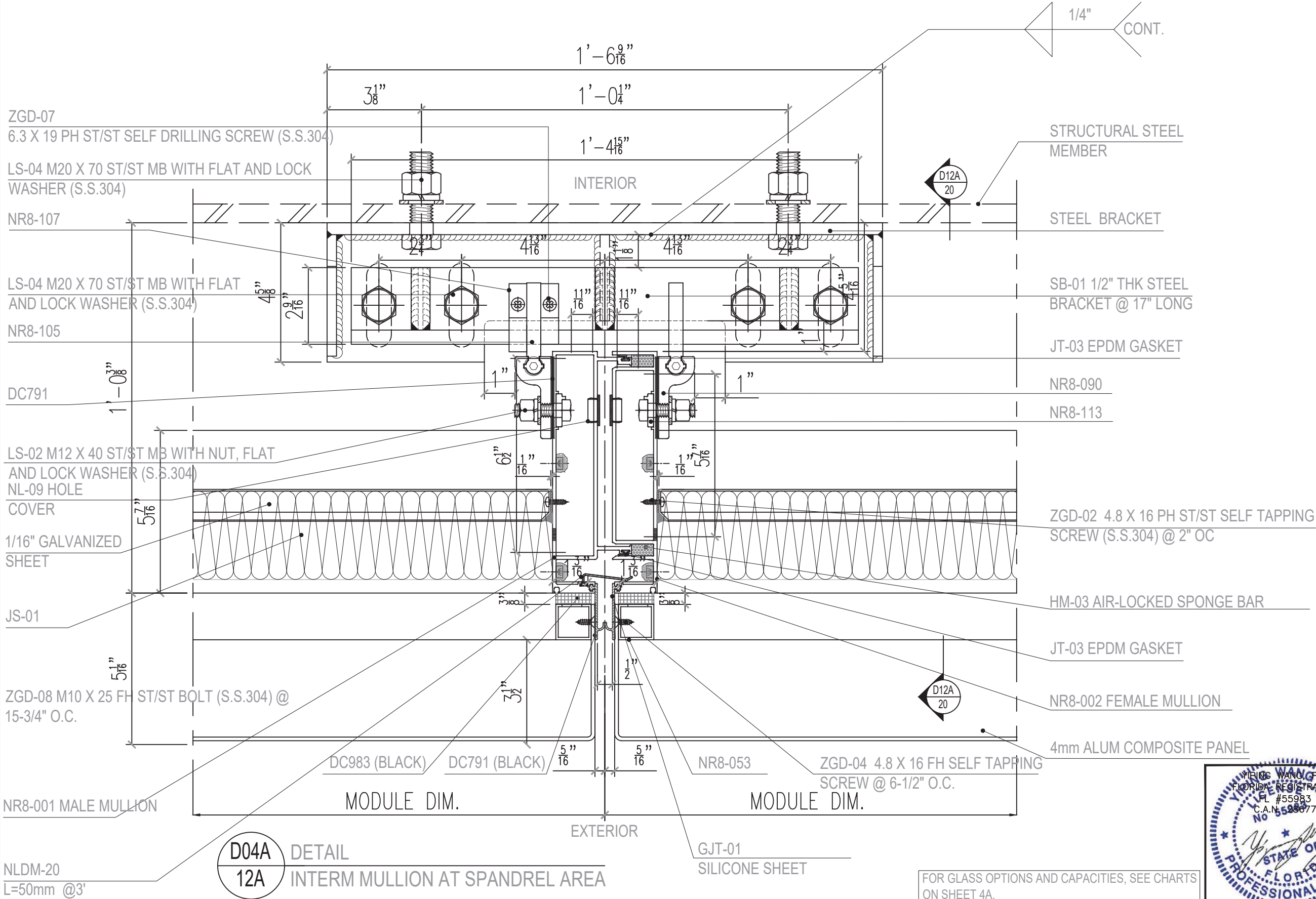
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
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FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
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DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
D03A

SHEET 11A



FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



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ENGINEERING, INC.

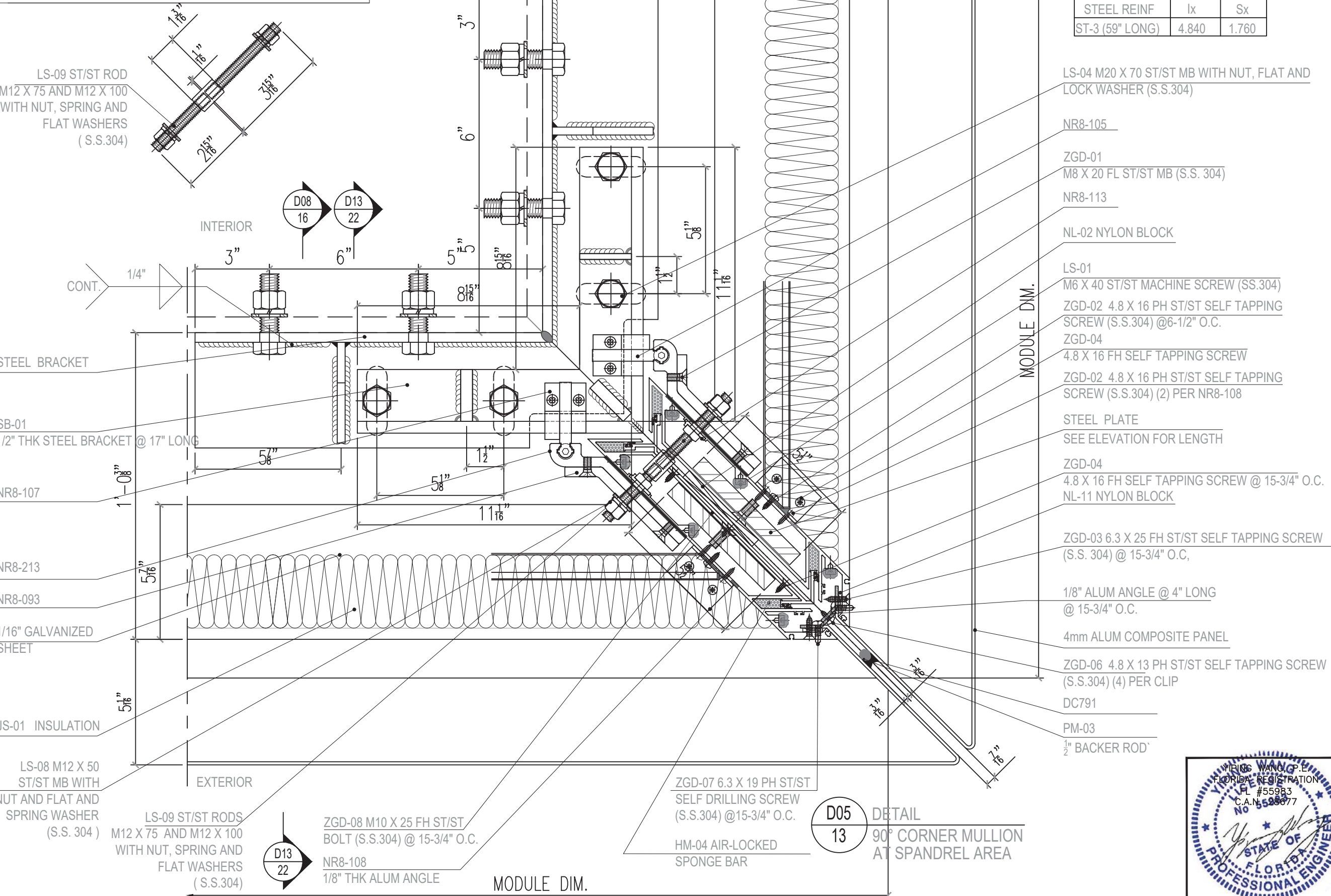
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FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
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PROJECT	MCY16-022
DRAWING NO. AD16-10 D04A	
SHEET 12A	

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



90° CORNER	lx	Sx
NR8-005	28.907	6.832

STEEL REINF	lx	Sx
ST-3 (59" LONG)	4.840	1.760

LS-04 M20 X 70 ST/ST MB WITH NUT, FLAT AND LOCK WASHER (S.S.304)

NR8-105

ZGD-01
M8 X 20 FL ST/ST MB (S.S. 304)

NR8-113

NL-02 NYLON BLOCK

LS-01
M6 X 40 ST/ST MACHINE SCREW (SS.304)

ZGD-02 4.8 X 16 PH ST/ST SELF TAPPING SCREW (S.S.304) @6-1/2" O.C.

ZGD-04
4.8 X 16 FH SELF TAPPING SCREW

ZGD-02 4.8 X 16 PH ST/ST SELF TAPPING SCREW (S.S.304) (2) PER NR8-108

STEEL PLATE
SEE ELEVATION FOR LENGTH

ZGD-04
4.8 X 16 FH SELF TAPPING SCREW @ 15-3/4" O.C.
NL-11 NYLON BLOCK

ZGD-03 6.3 X 25 FH ST/ST SELF TAPPING SCREW (S.S. 304) @ 15-3/4" O.C,

1/8" ALUM ANGLE @ 4" LONG
@ 15-3/4" O.C.

4mm ALUM COMPOSITE PANEL

ZGD-06 4.8 X 13 PH ST/ST SELF TAPPING SCREW (S.S.304) (4) PER CLIP

DC791

PM-03
1/2" BACKER ROD

ZGD-07 6.3 X 19 PH ST/ST SELF DRILLING SCREW (S.S.304) @15-3/4" O.C.

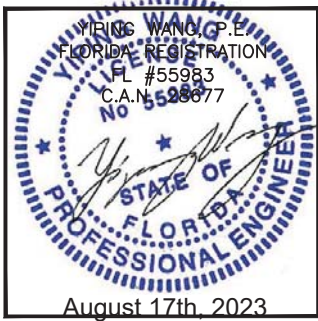
HM-04 AIR-LOCKED SPONGE BAR

ZGD-08 M10 X 25 FH ST/ST BOLT (S.S.304) @ 15-3/4" O.C.

NR8-108
1/8" THK ALUM ANGLE

LS-09 ST/ST RODS
M12 X 75 AND M12 X 100
WITH NUT, SPRING AND
FLAT WASHERS
(S.S.304)

D05
13
DETAIL
90° CORNER MULLION
AT SPANDREL AREA



REVISIONS		NO.	DATE	DESCRIPTION
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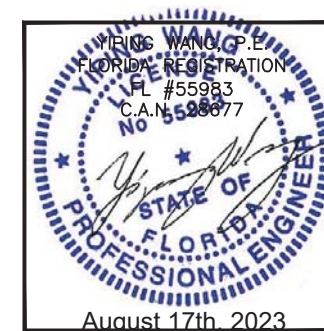
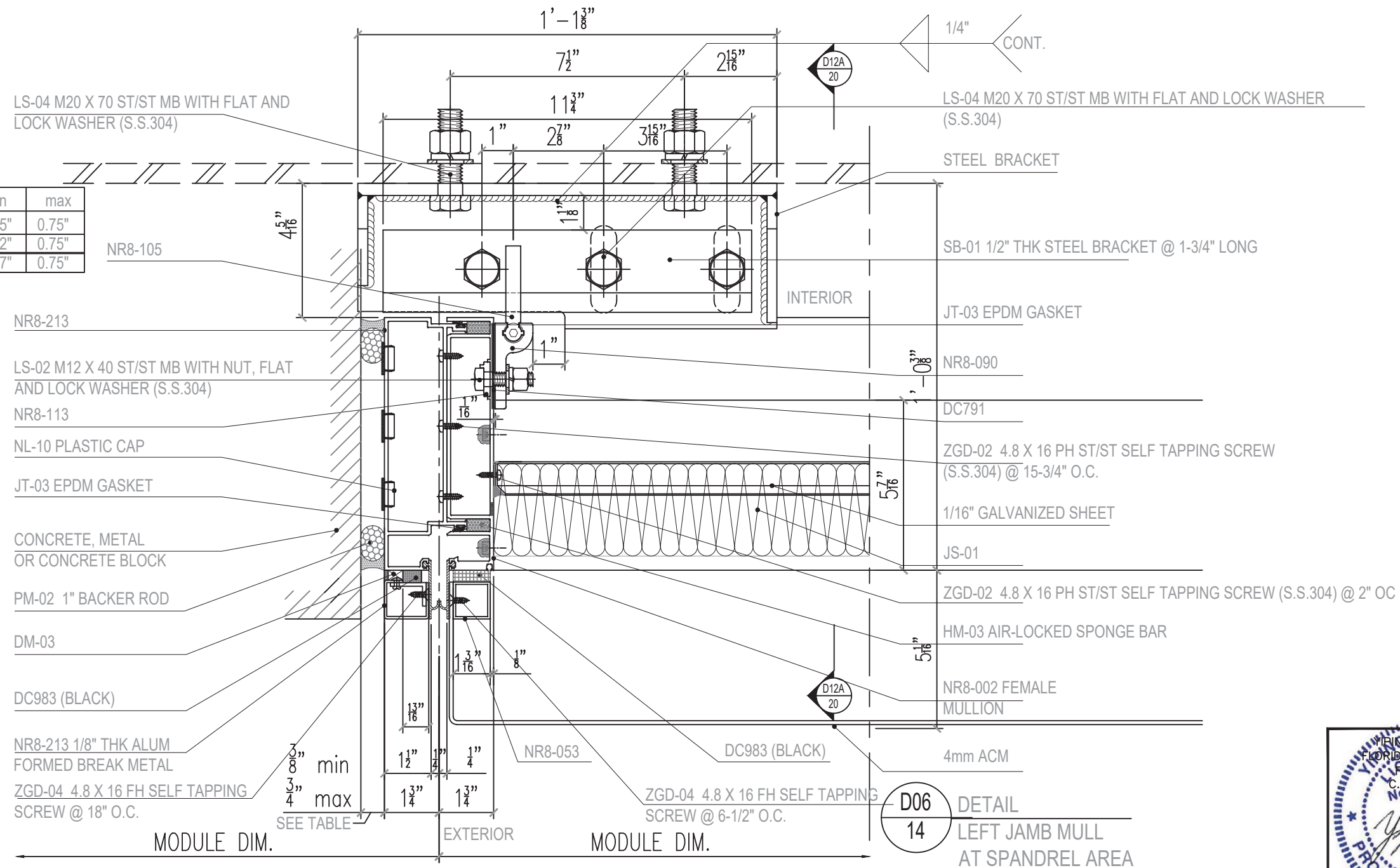
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DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D05	
SHEET 13	

Technical drawing of a steel bracket. The overall length is $1' - 1\frac{3}{8}"$. The overall height is $4\frac{5}{8}"$. The bracket features two vertical slots, each with a width of $2\frac{5}{8}"$. The distance between the centers of the slots is $3\frac{1}{8}"$. The distance from the left edge to the center of the first slot is $1\frac{3}{16}"$, and the distance from the center of the second slot to the right edge is $1\frac{3}{16}"$. A circular hole with a diameter of $\varnothing 1\frac{3}{16}"$ is located on the left side. The text "STEEL BRACKET" is written to the right of the drawing.

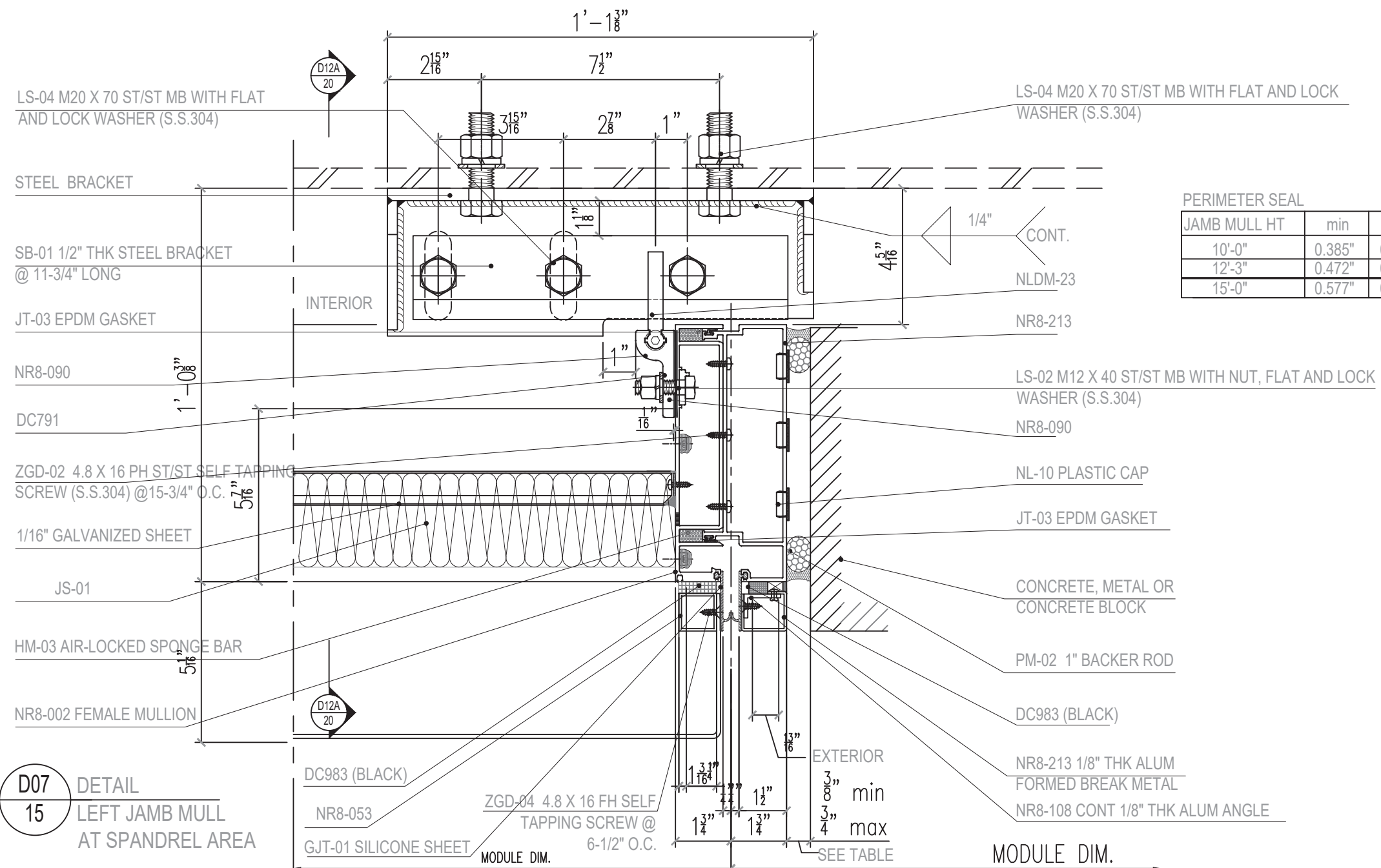
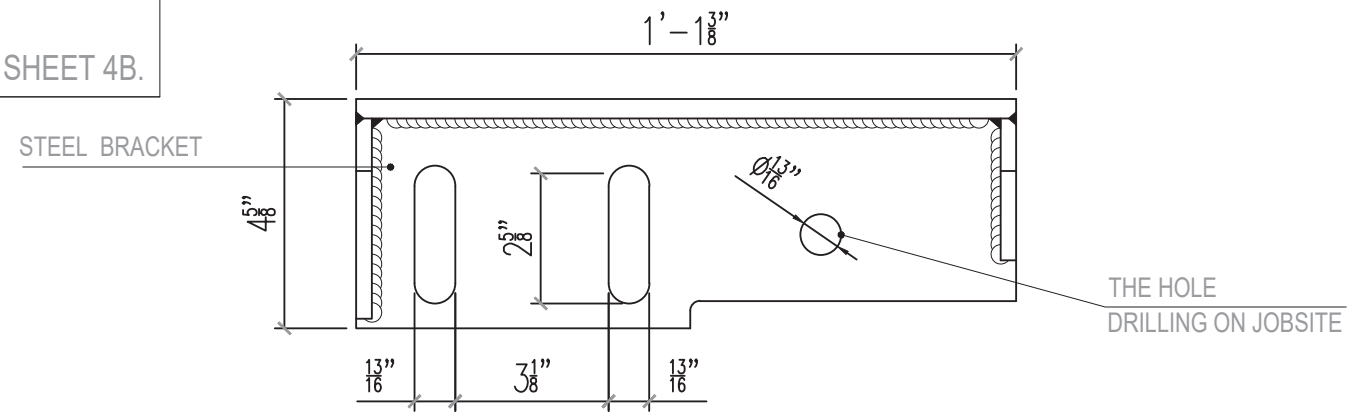
JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"



SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)		N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL. 33407 P: (561) 844 - 1121 F: (561) 844 - 6131	
FLORIDA APPROVAL: FL #20149.3			
DATE	08.10.23		
SCALE	AS NOTED		
DRAWN	James		
PROJECT	MCY16-022		
DRAWING NO. AD16-10 D06			
SHEET 14			

M C Y		www.MCYEngineering.com MCY@mcyeengineering.com	
MCY ENGINEERING, INC. GLAZING CONSULTANTS		8501 SW 124 AVE. STE. 205A P: 305.274.0117 MIAMI, FL. 33183 F: 305.588.5224	
REVISIONS			
NO.	DATE	DESCRIPTION	
R3	08.10.23	FBC 2023	

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"

REVISIONS		
NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.588.5224

 www.MCYEngineering.com MCY@mcyengineering.com

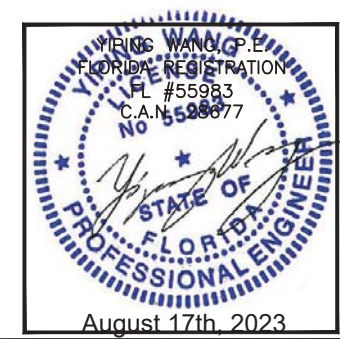
N.R. ARCHITECTURAL PRODUCTS, INC.
 4348 WESTROADS DRIVE
 WEST PALM BEACH, FL. 33407
 P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

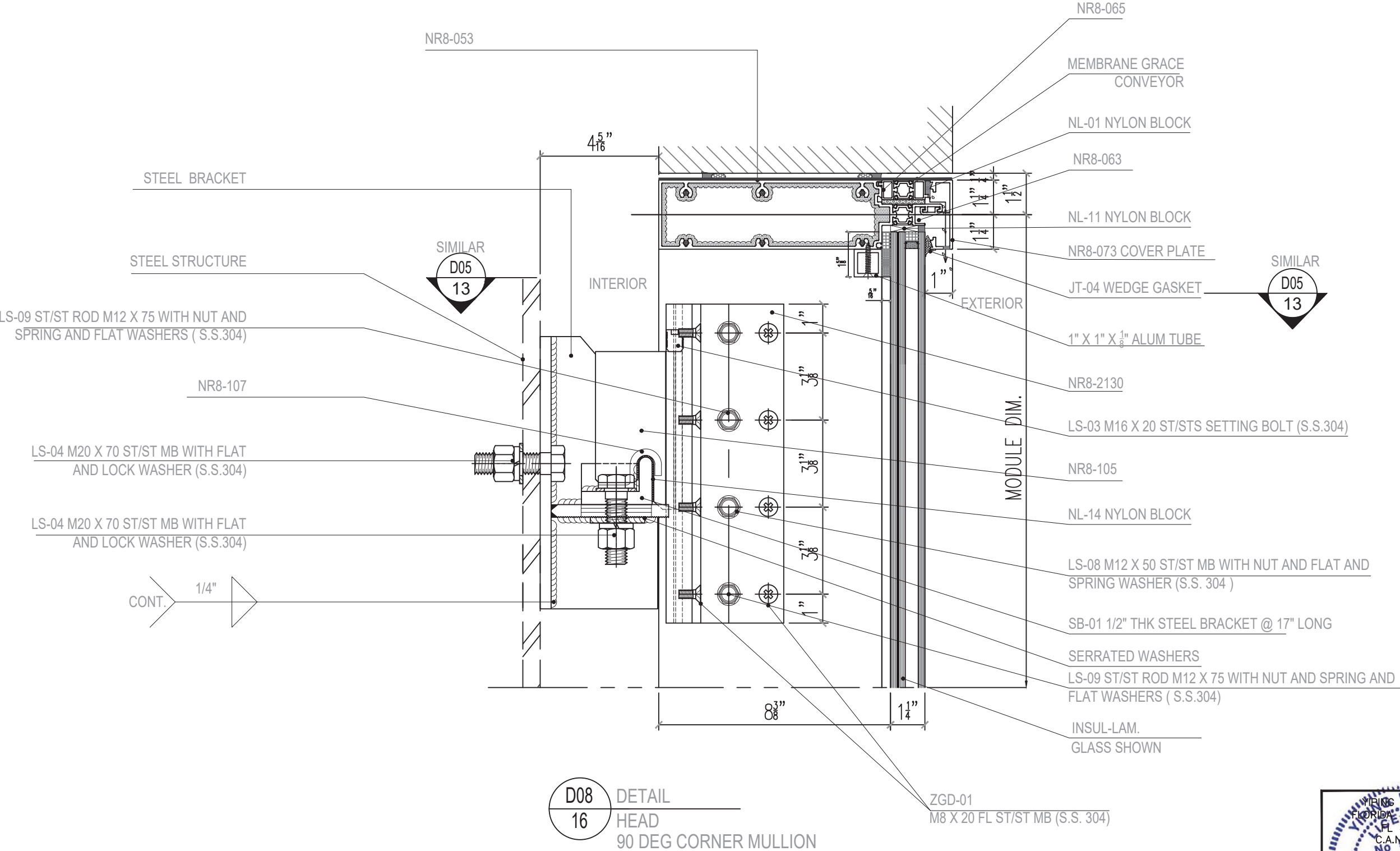
DRAWING NO.
AD16-10
D07

SHEET 15



August 17th, 2023

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



REVISIONS	
NO.	DESCRIPTION
R3	08.10.23 FBC 2023

MCY

ENGINEERING, INC.

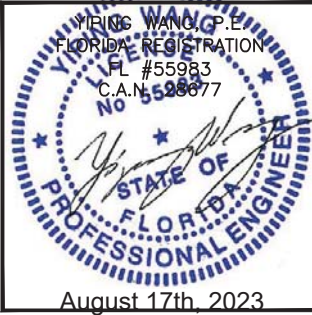
GLAZING CONSULTANTS

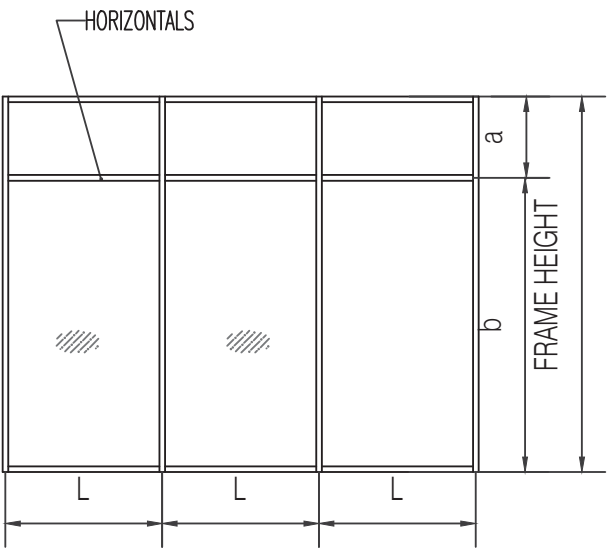
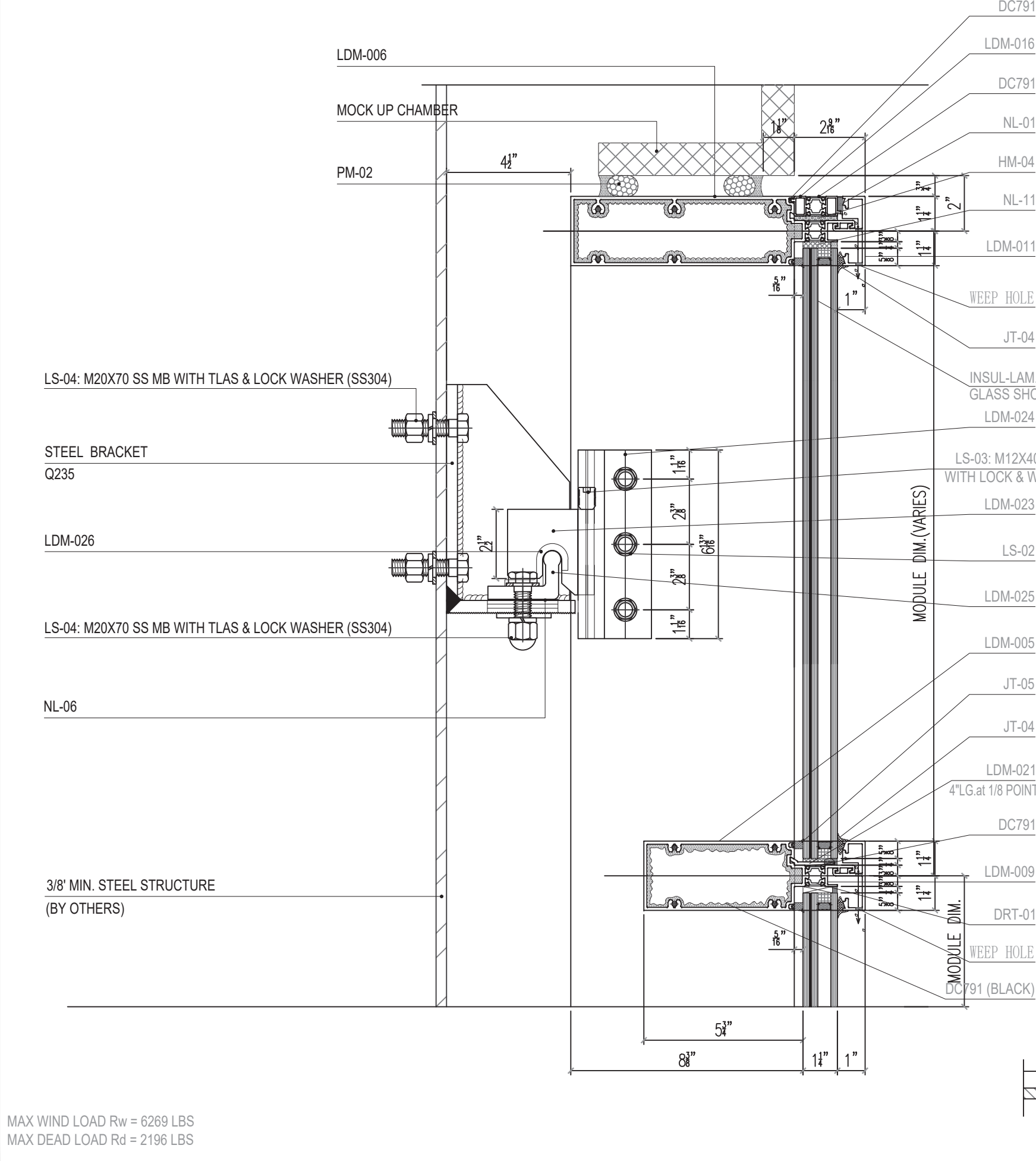
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.588.5224
www.MCYEngineering.com MCY@mcycengineering.com

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D08	
SHEET 16	





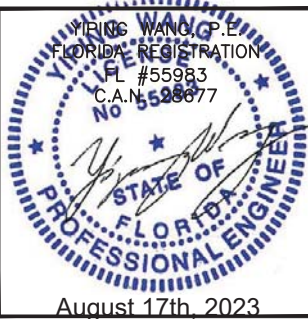
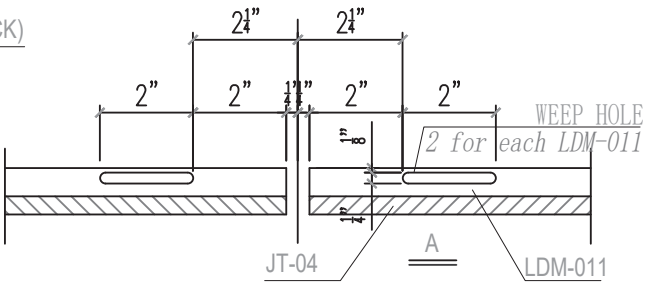
D09A
17A

DETAIL
SILL DETAIL

HORIZ. MULL (NR8-052) CAPACITY			
MULLION SPAN L (IN)	HEIGHT ABOVE a (IN)	HEIGHT BELOW b (IN)	DESIGN LOAD (PSF)
96	36	36	70.0
54-11/16	58 3/4	58 3/4	168.0

D09B
17A

DETAIL
SILL DETAIL



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NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

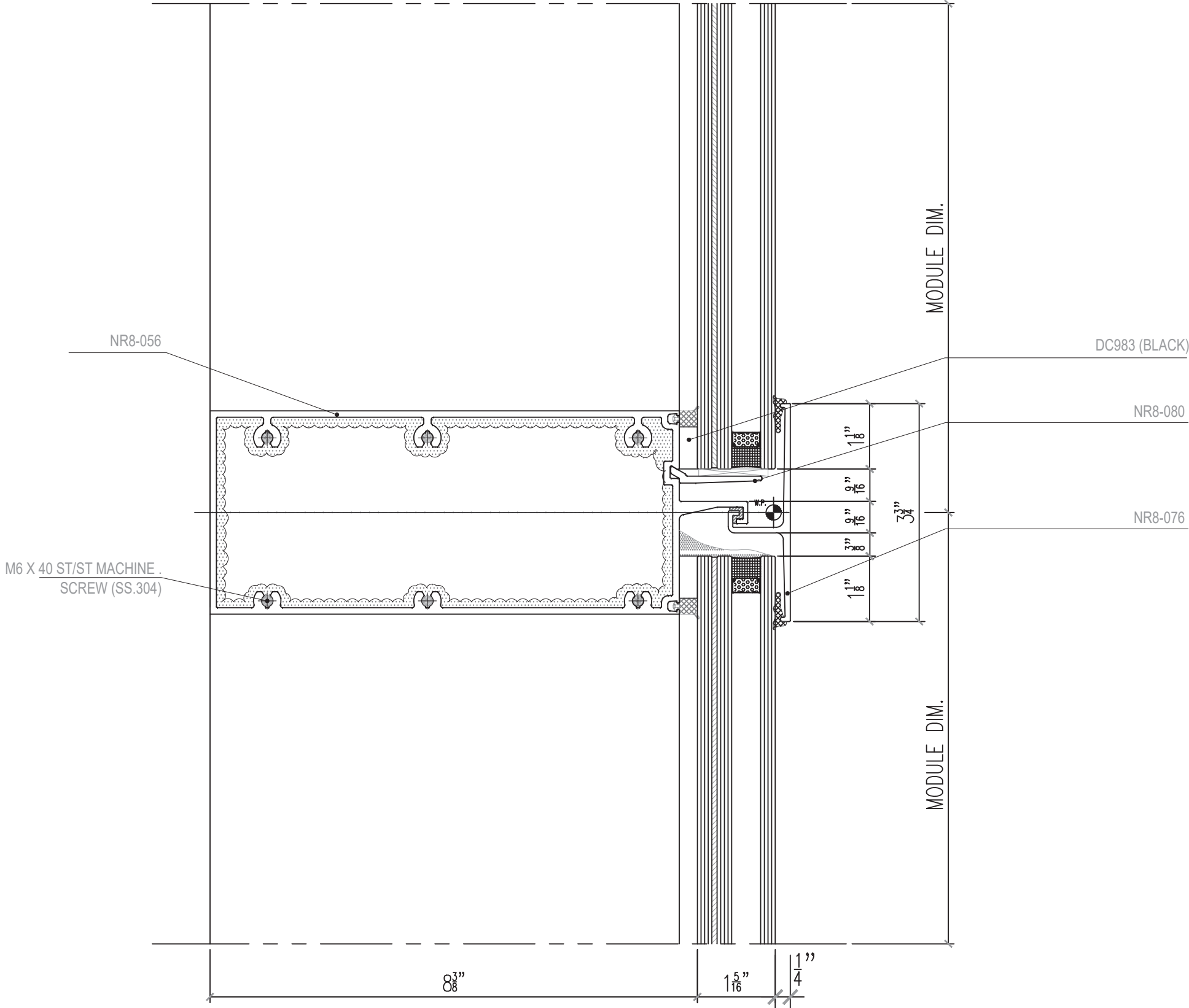
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
D09A

SHEET 17A



D09C
17B

DETAIL
TYP INTERM HORIZ



August 17th, 2023

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

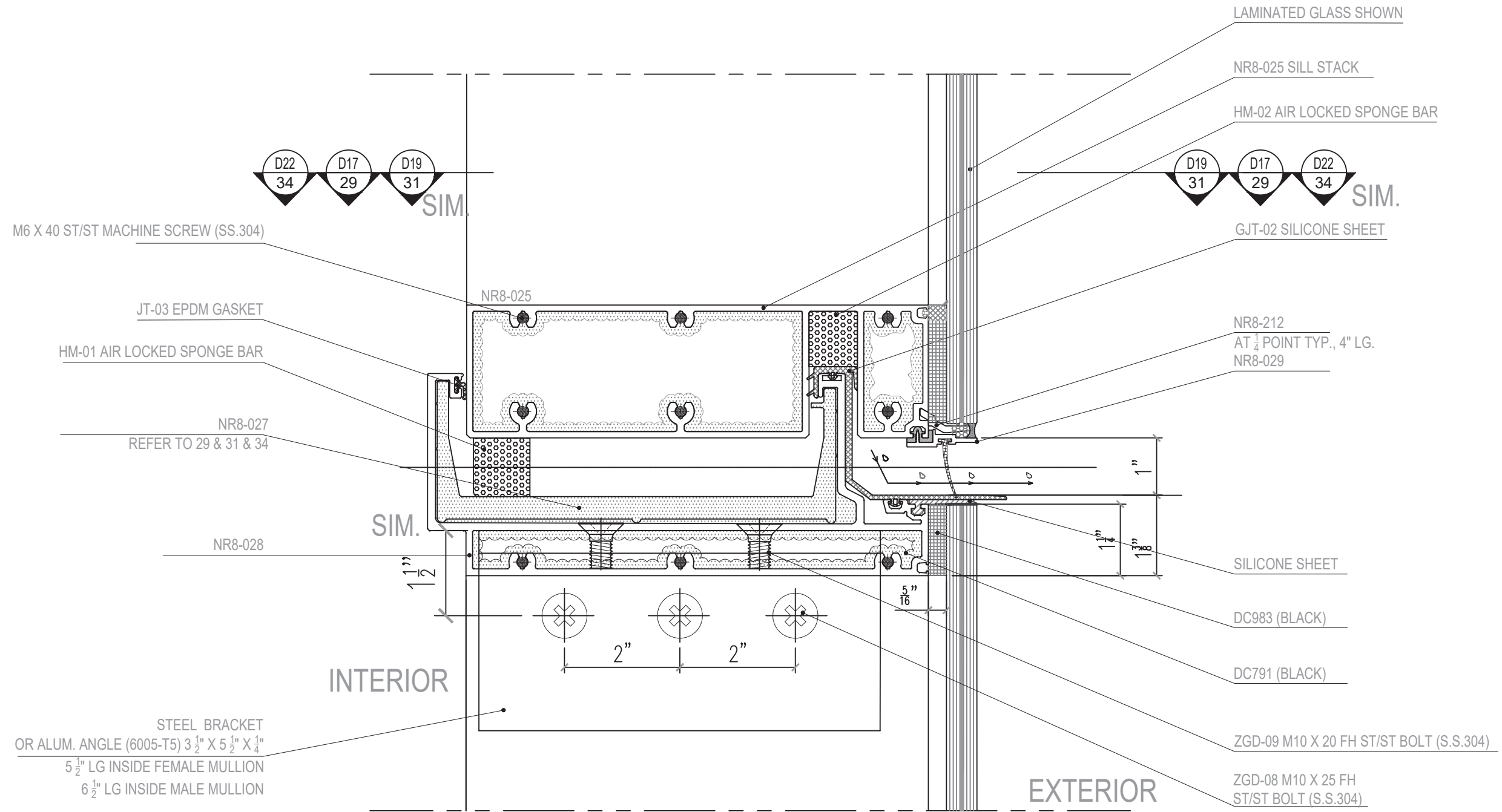
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL. 33183 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

MCY

REVISIONS	
NO.	DATE DESCRIPTION
R3	08.10.23 FBC 2023

FLORIDA APPROVAL FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D09C	
SHEET 17B	



D10A
18A
DETAIL
STACK JOINT



REVISIONS	
NO.	DATE
R3	08.10.23

DESCRIPTION	
	FBC 2023

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www.MCYEngineering.com MCY@mcysengineering.com

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

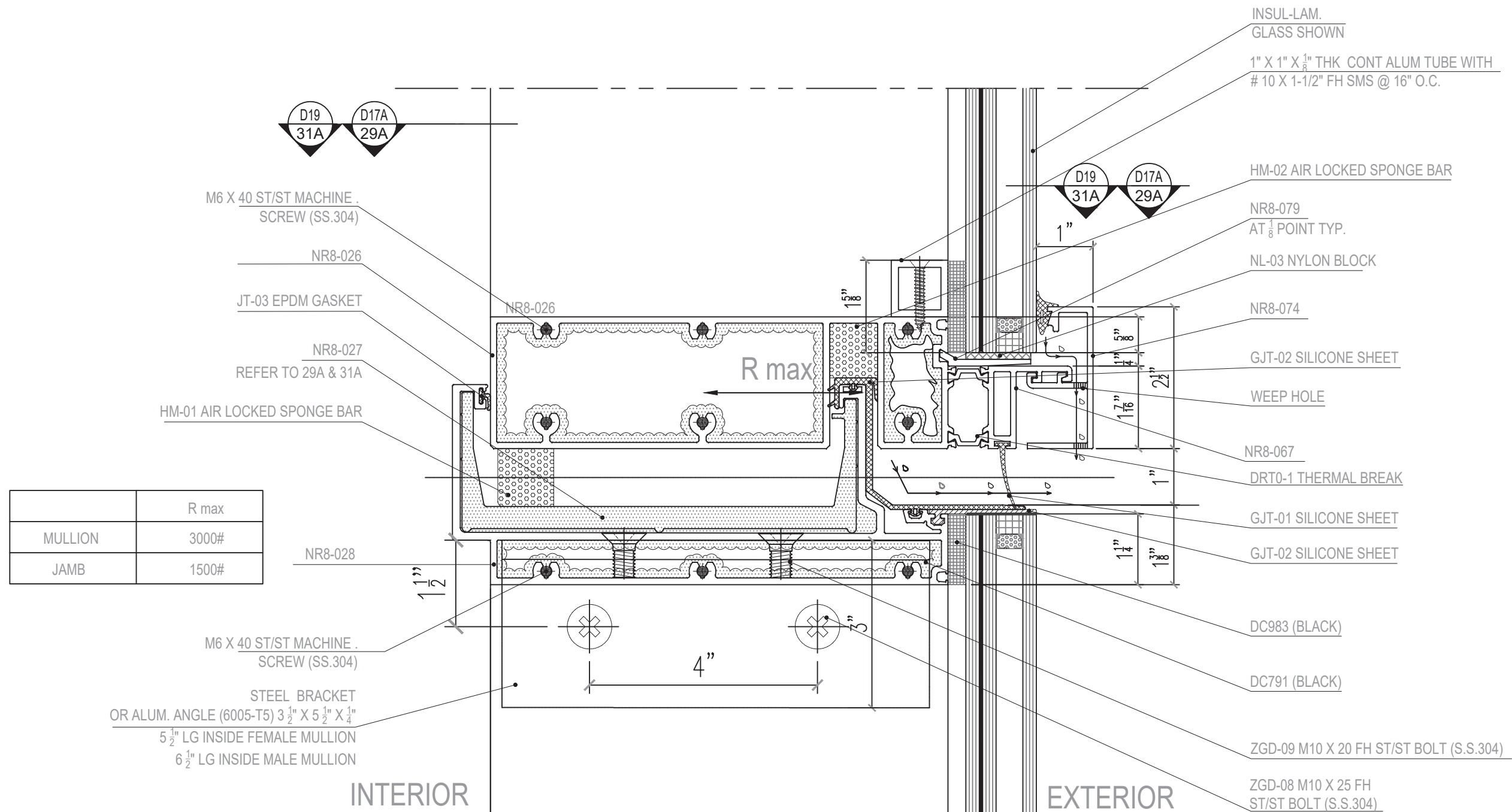
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

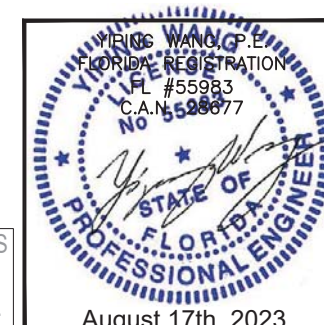
DRAWING NO.
AD16-10
D10A

SHEET 18A



INTERIOR

D10B
18B



REVISIONS	
NO.	DATE DESCRIPTION
R3	08.10.23 FBC 2023

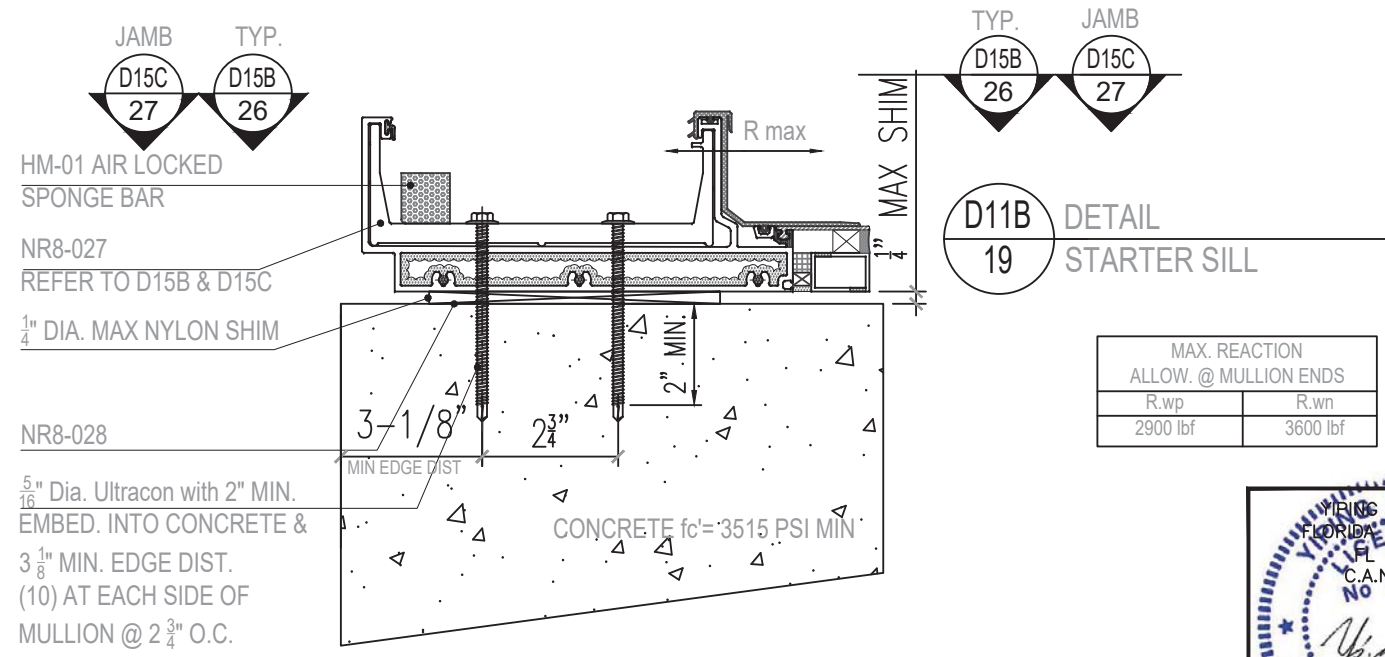
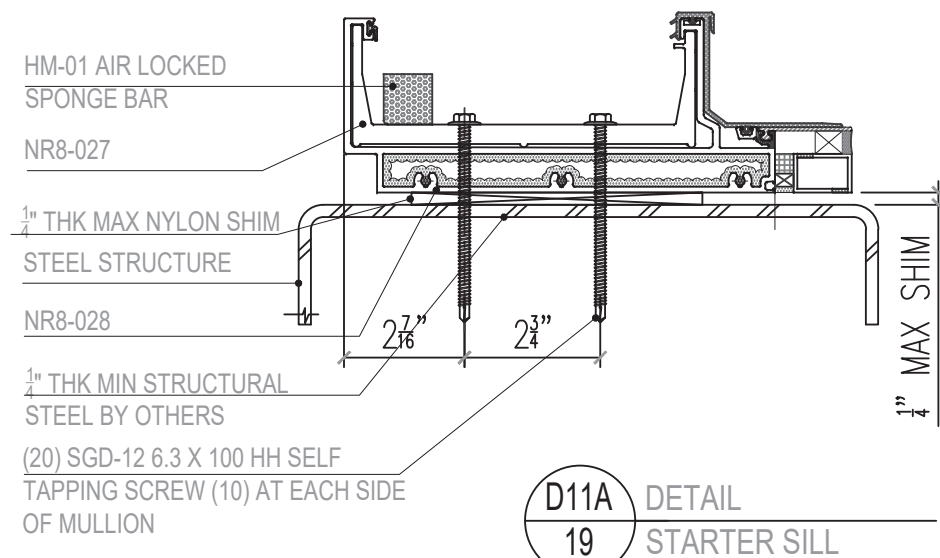
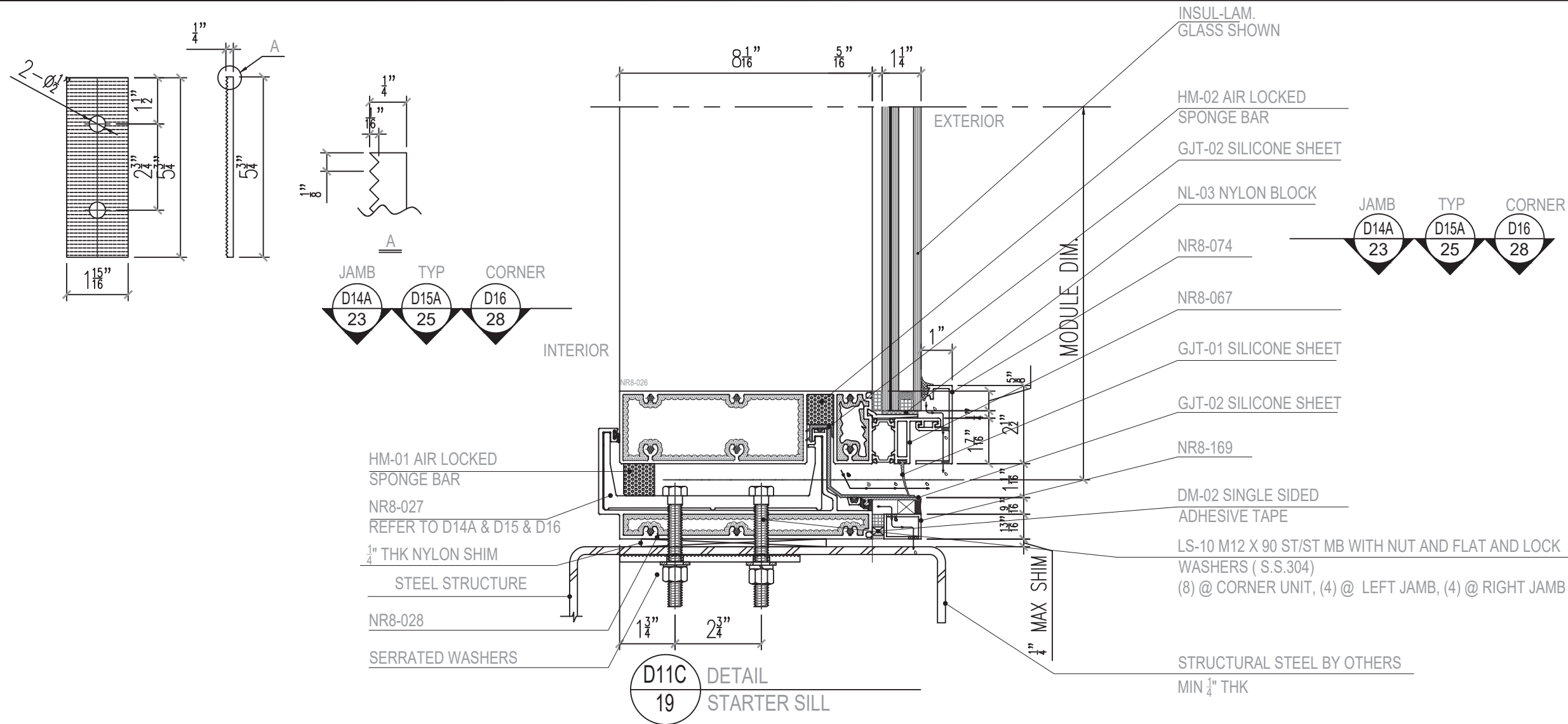
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

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P: (561) 844 - 1121 F: (561) 844 - 6131

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

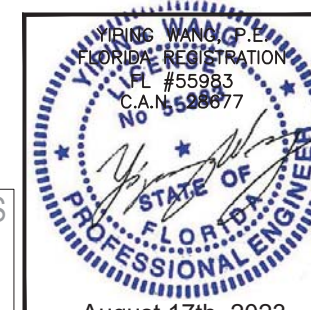
SHEET 18B





FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.

MAX. REACTION ALLOW. @ MULLION ENDS	
R.wp	R.wn
2900 lbf	3600 lbf



REVISIONS	
NO.	DATE
R3	08.10.23
FBC 2023	

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GLAZING CONSULTANTS

M C Y

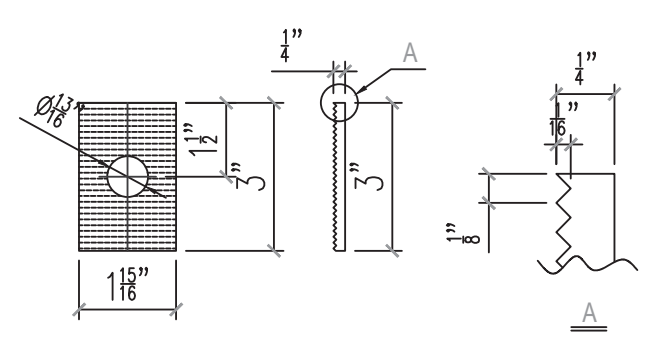
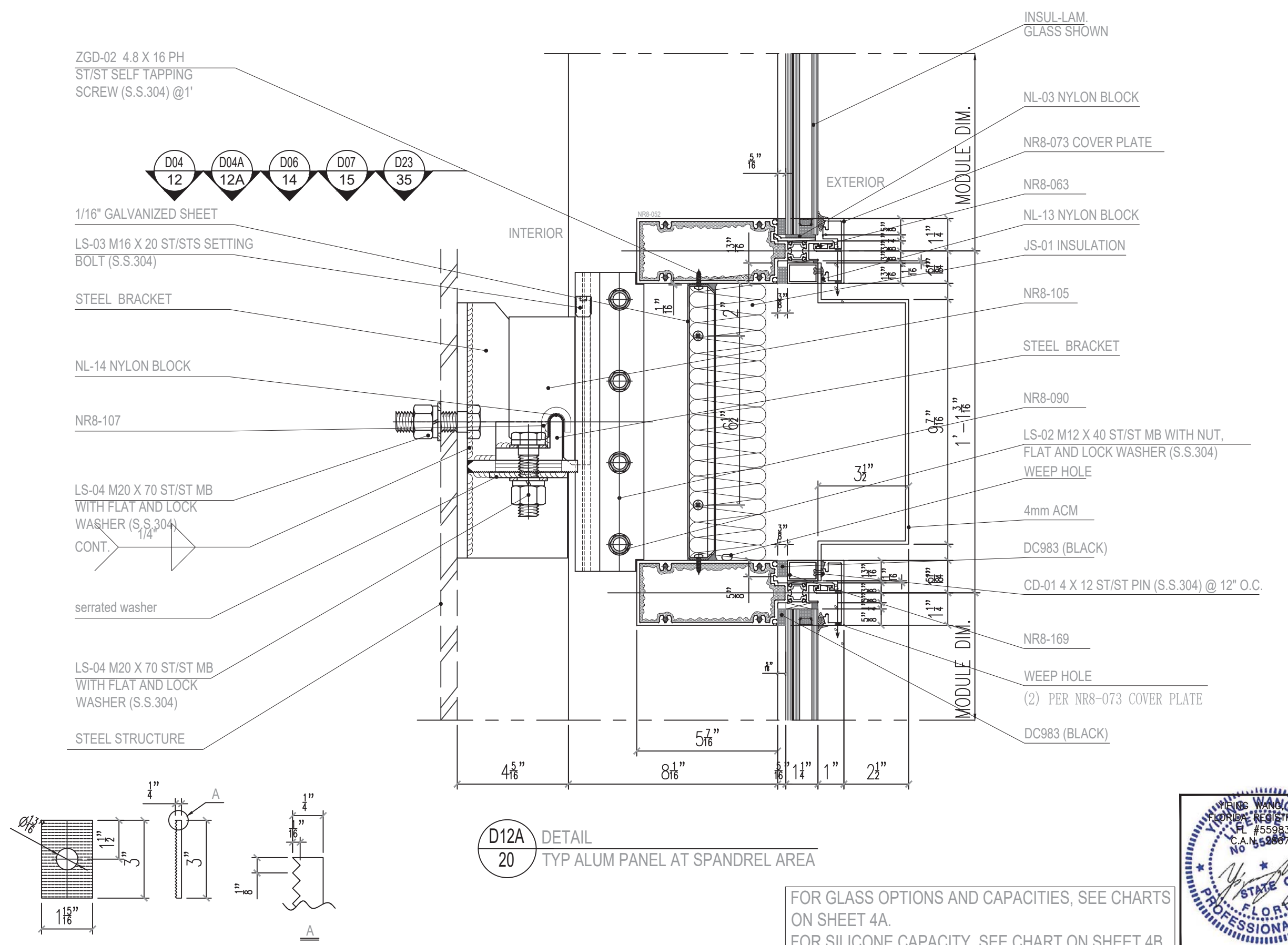
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MIAMI, FL 33183 F: 305.568.5224
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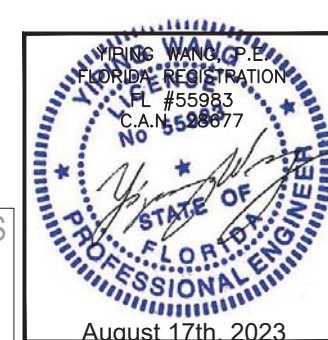
FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	AD16-10
	D11
SHEET 19	

August 17th, 2023



D12A
20
DETAIL
TYP ALUM PANEL AT SPANDREL AREA

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



REVISIONS	
NO.	DATE
R3	08.10.23
DESCRIPTION	
FBC 2023	

MCY

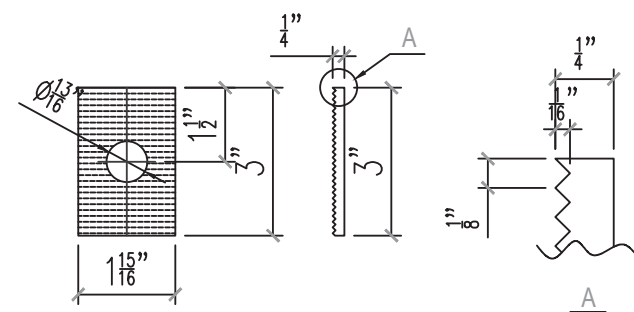
ENGINEERING, INC.

GLAZING CONSULTANTS

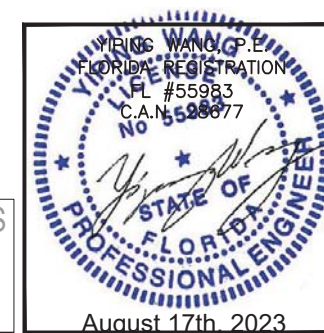
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)	
N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407 P: (561) 844 - 1121 F: (561) 844 - 6131	

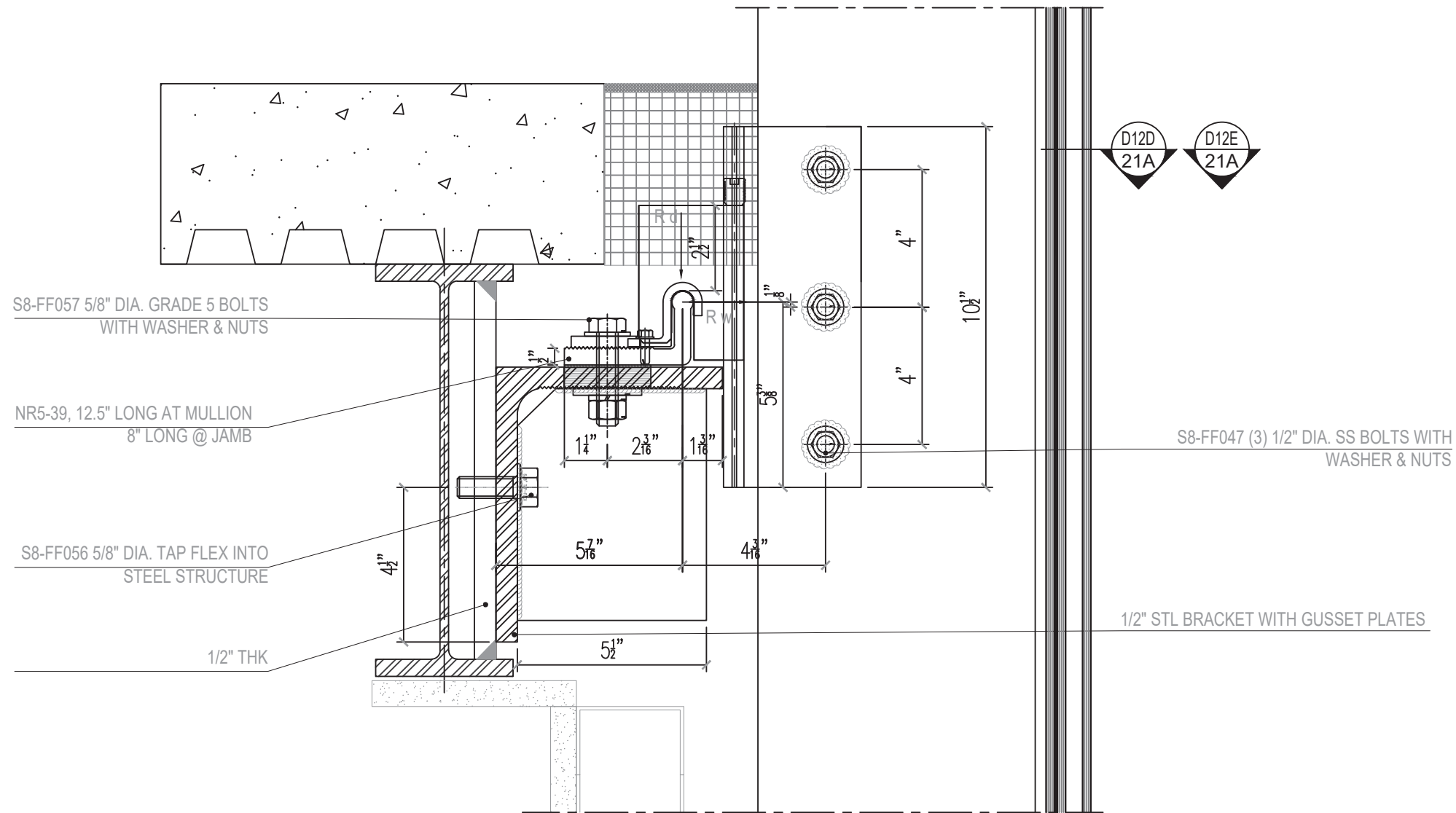
FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D12A	
SHEET 20	



FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.

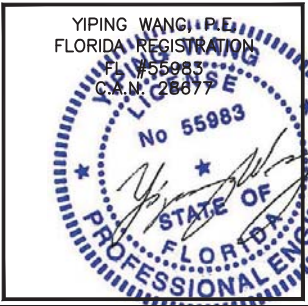


FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D12B	
SHEET 20A	



MAX. WIND LOAD: $R_w = 7500\text{ lbf}$
MAX. DEAD LOAD: $R_d = 1200\text{ lbf}$

D12C
21
DETAIL

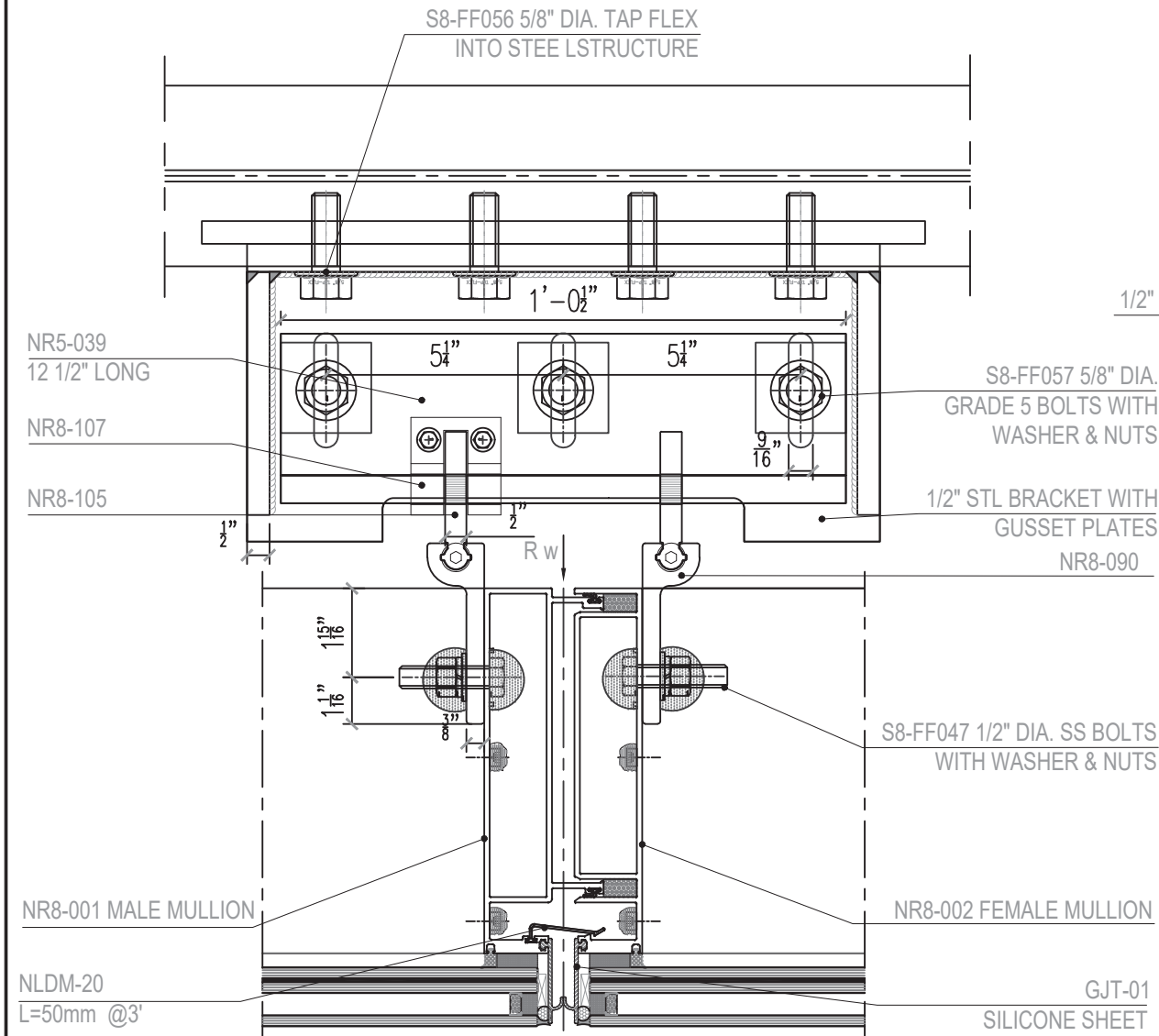


REVISIONS		NO. DATE DESCRIPTION	
		13	08.10.23 FBC 2023

MCY ENGINEERING, INC. GLAZING CONSULTANTS		8501 SW 124 AVE. STE. 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.588.5224 www.MCYEngineering.com MCY@mcyengineering.com	
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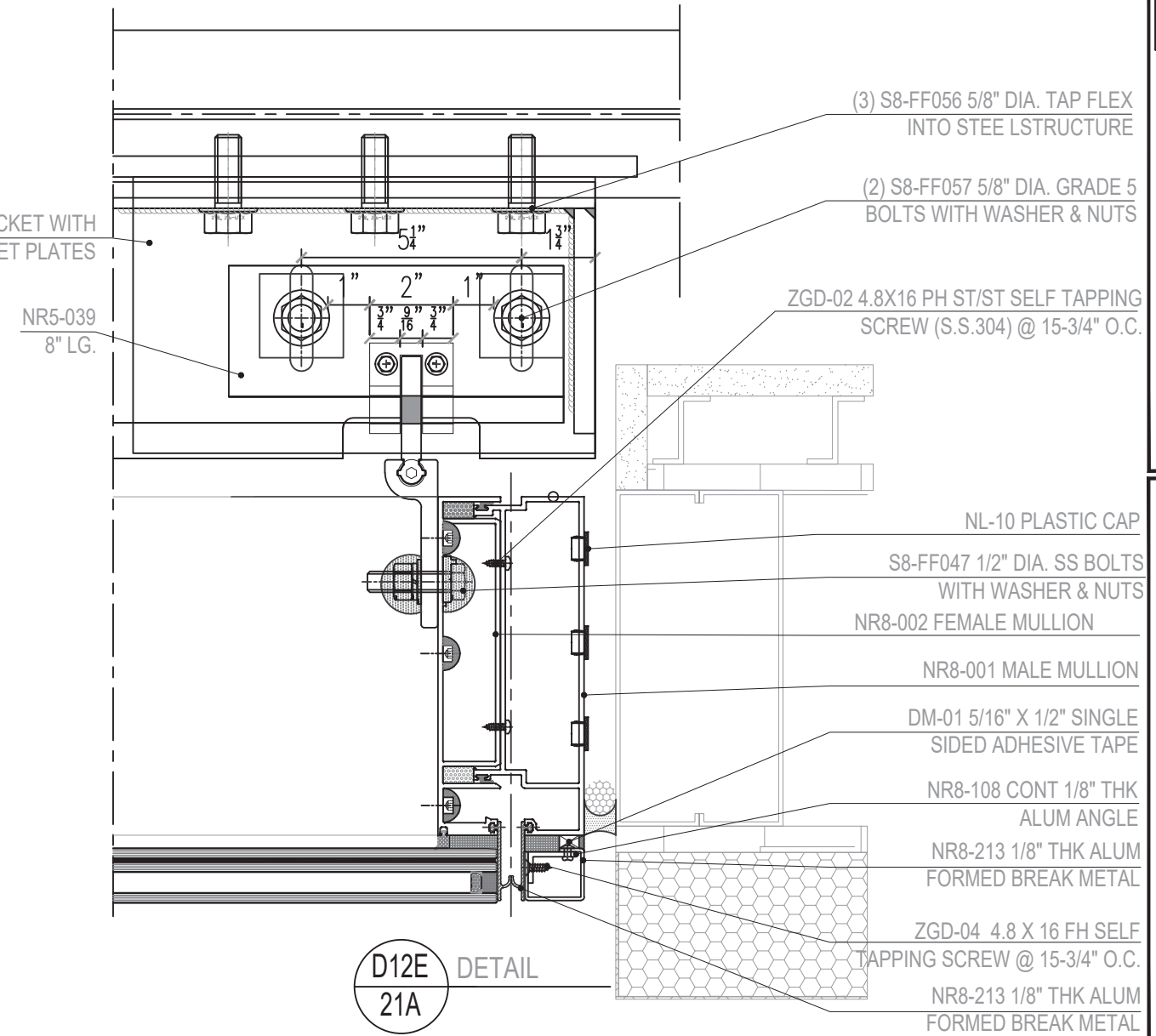
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)		N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407 P: (561) 844 - 1121 F: (561) 844 - 6131	
--	--	---	--

FLORIDA APPROVAL: FL #20149.3		DATE 08.10.23	
		SCALE AS NOTED	
		DRAWN James	
		SUBJECT MCY16-022	
		DRAWING NO. AD16-10 D12C	
		SHEET 21	



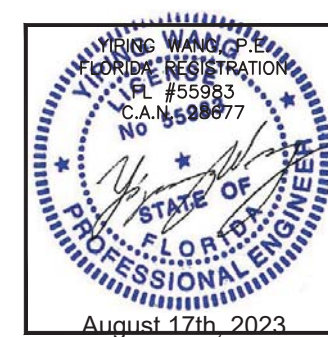
D12D
21A

MAX. WIND LOAD: R_w : =7500lbf
MAX. DEAD LOAD: R_d : =1200lbf



D12E
21A

MAX. WIND LOAD: R_w : = 3750lbf
MAX. DEAD LOAD: R_d : = 600 lbf



REVISIONS	
NO.	DESCRIPTION
R3	08.10.23 FBC 2023

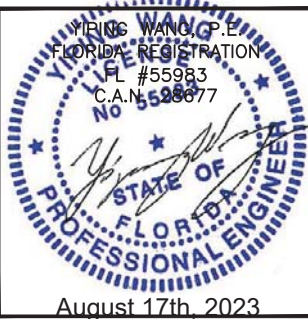
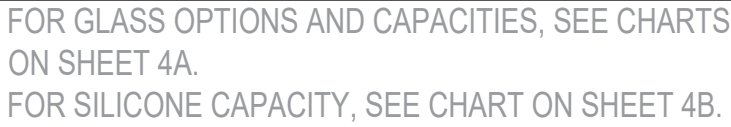
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MIAMI, FL 33183 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

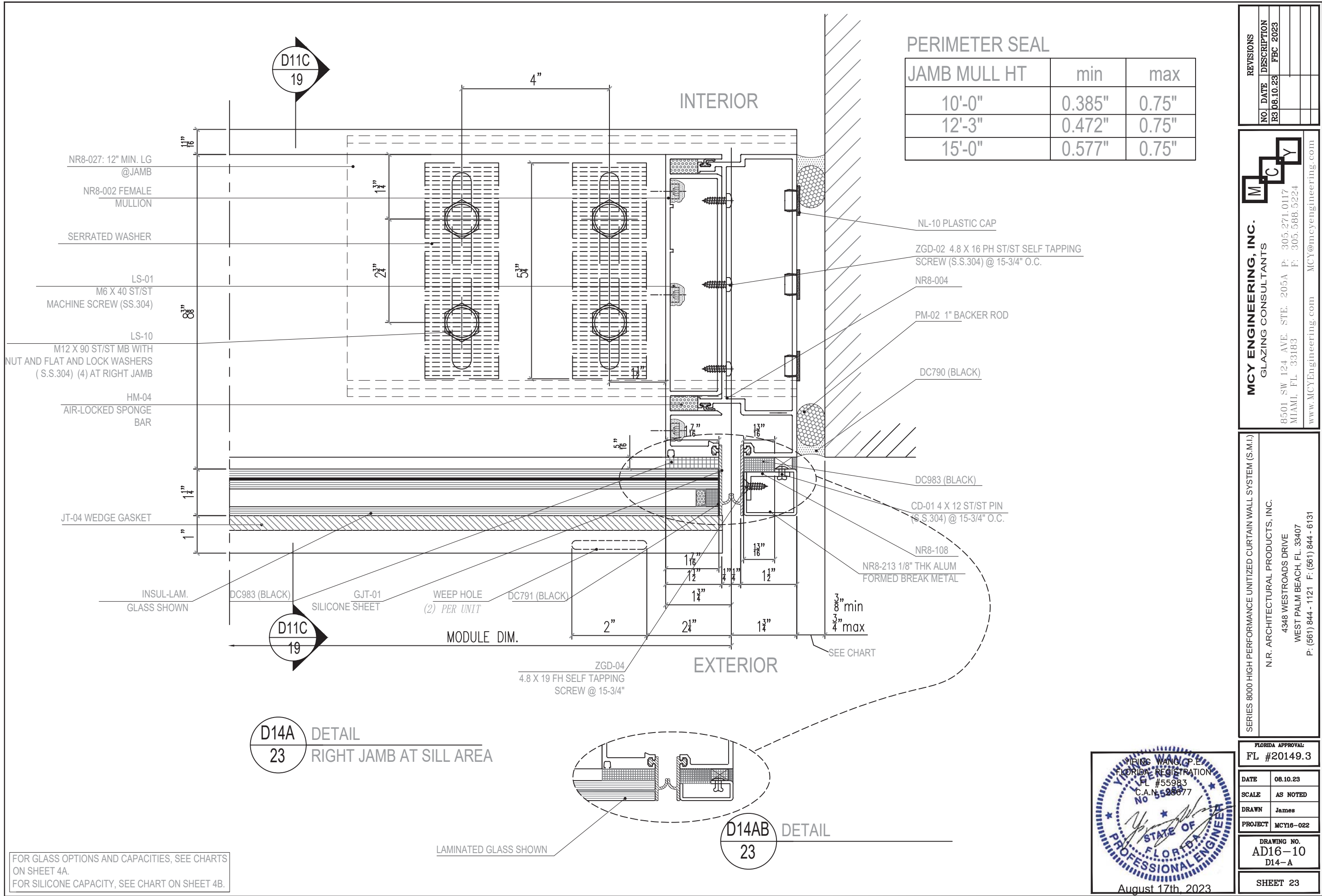
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D12D	
SHEET 21	



M C Y MCY ENGINEERING, INC. GLAZING CONSULTANTS 8501 SW 124 AVE. STE. 205A P: 305.271.0117 MIAMI, FL 33183 F: 305.588.5224 www.MCYEngineering.com MCY@mcyengineering.com		REVISIONS	
		NO.	DATE
		R3	08.10.23
			FBC 2023
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)			
N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL. 33407 P: (561) 844 - 1121 F: (561) 844 - 6131			
FLORIDA APPROVAL: FL #20149.3			
DATE	08.10.23		
SCALE	AS NOTED		
DRAWN	James		
PROJECT	MCY16-022		
DRAWING NO. AD16-10 D13			
SHEET 22			



REVISIONS		
NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

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MIAMI, FL 33183 F: 305.568.5224
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P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D14-A	
SHEET 23	

YOUNG KWAN P.E.

FLORIDA REGISTRATION
FL #55983
C.A.N. 5528677

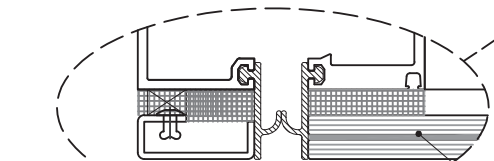
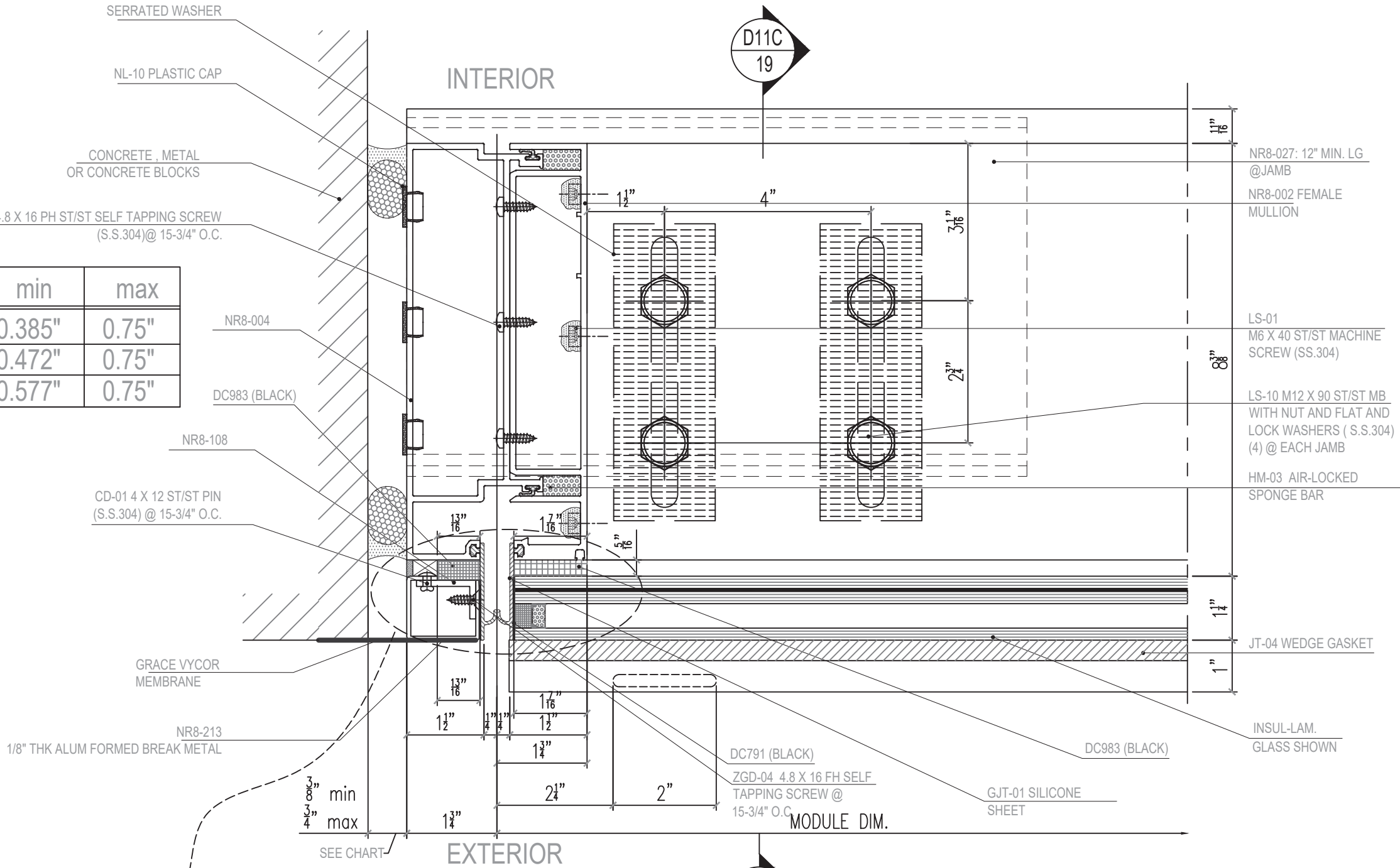
STATE OF FLORIDA

PROFESSIONAL ENGINEER

August 17th, 2023

PERIMETER SEAL

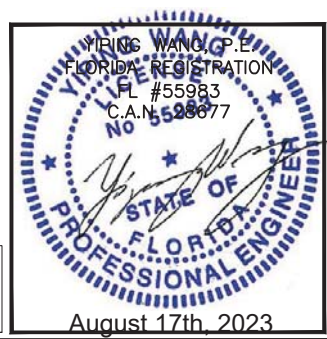
JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"



D14BA
24
DETAIL
LEFT JAMB AT SILL AREA

D14B
24
DETAIL
LEFT JAMB AT SILL AREA

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



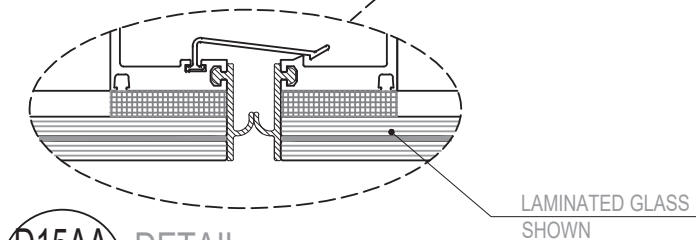
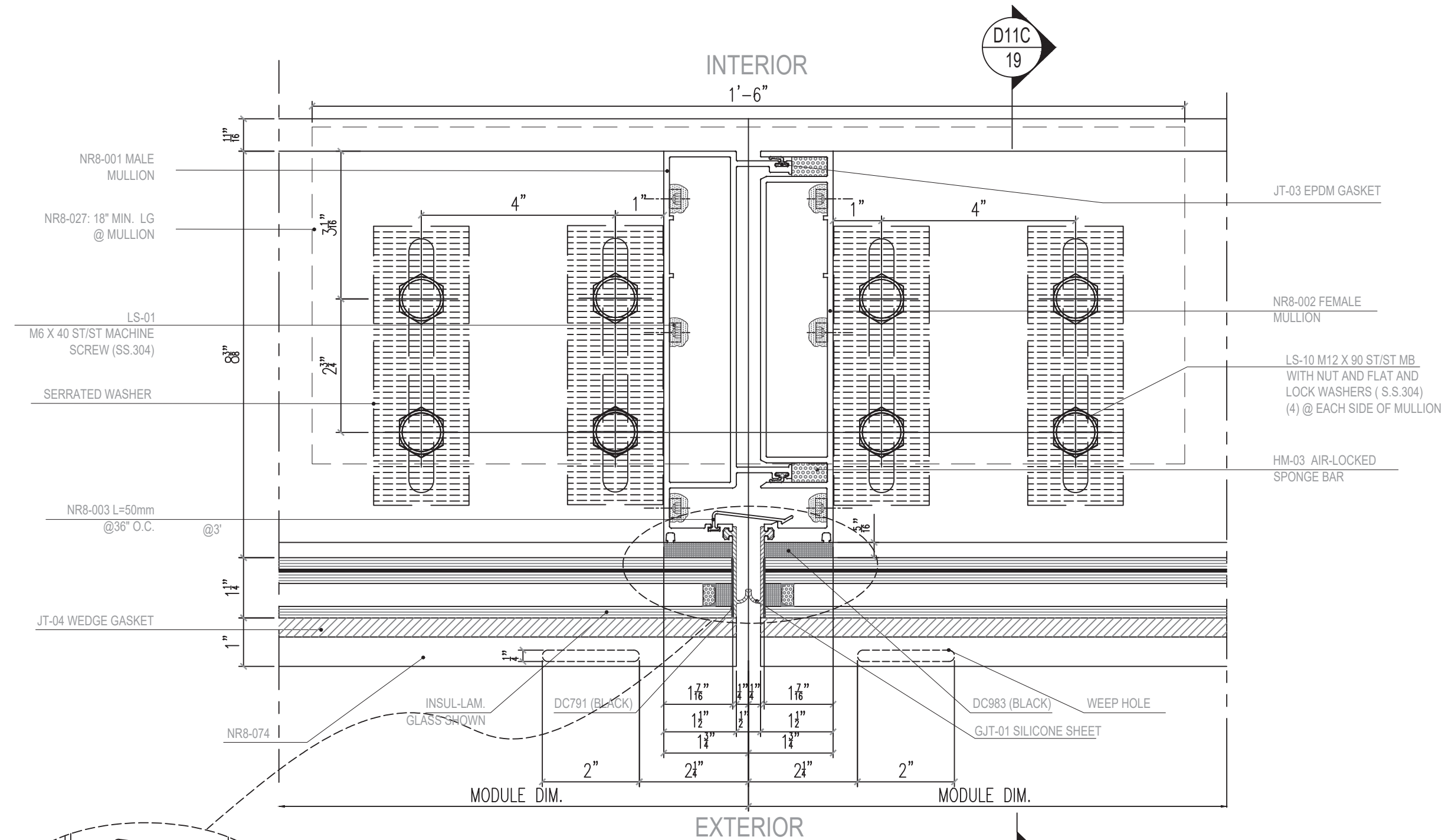
August 17th, 2023

REVISIONS	
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FBC 2023	

MCY ENGINEERING, INC.	
GLAZING CONSULTANTS	
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WEST PALM BEACH, FL 33407	
P: (561) 844 - 1121 F: (561) 844 - 6131	

FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	
AD16-10	
D14-B	
SHEET 24	



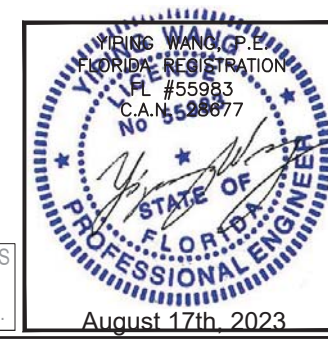
D15AA
25
DETAIL
INTERM MULLION AT SILL AREA

D15A
25
DETAIL
MULLION AT SILL AREA

D11C
19

D11C
19

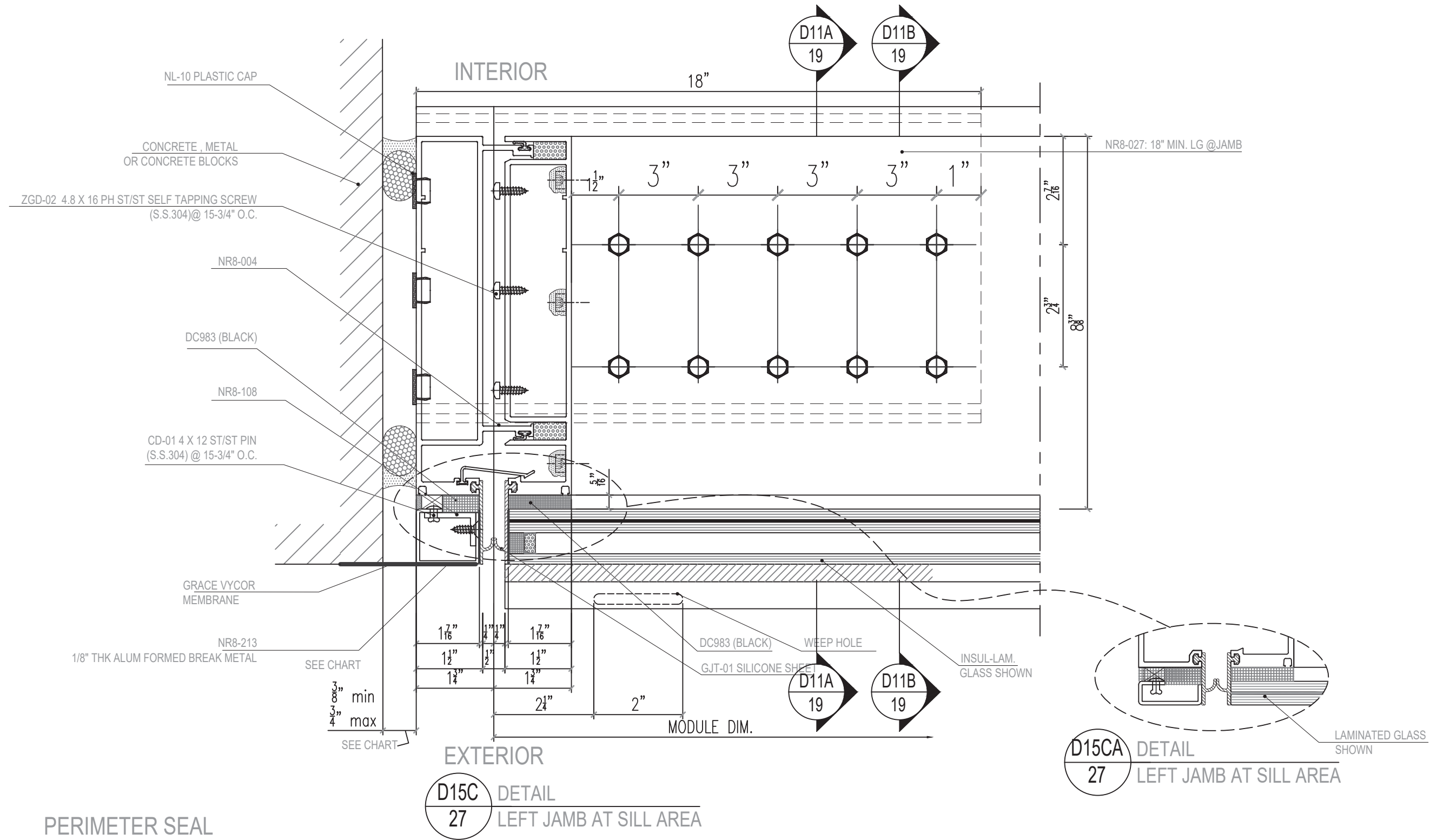
FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



REVISIONS		MCY ENGINEERING, INC.	
NO.	DATE	DESCRIPTION	GLAZING CONSULTANTS
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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)	
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4348 WESTROADS DRIVE	
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P: (561) 844 - 1121 F: (561) 844 - 6131	

FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	
AD16-10	
D15-A	
SHEET 25	



PERIMETER SEAL

JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"

D15C 27 DETAIL
LEFT JAMB AT SILL AREA

D15CA 27 DETAIL
LEFT JAMB AT SILL AREA

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



REVISIONS	
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R3	08.10.23 FBC 2023

MCY ENGINEERING, INC.
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MIAMI, FL 33183 F: 305.568.5224
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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

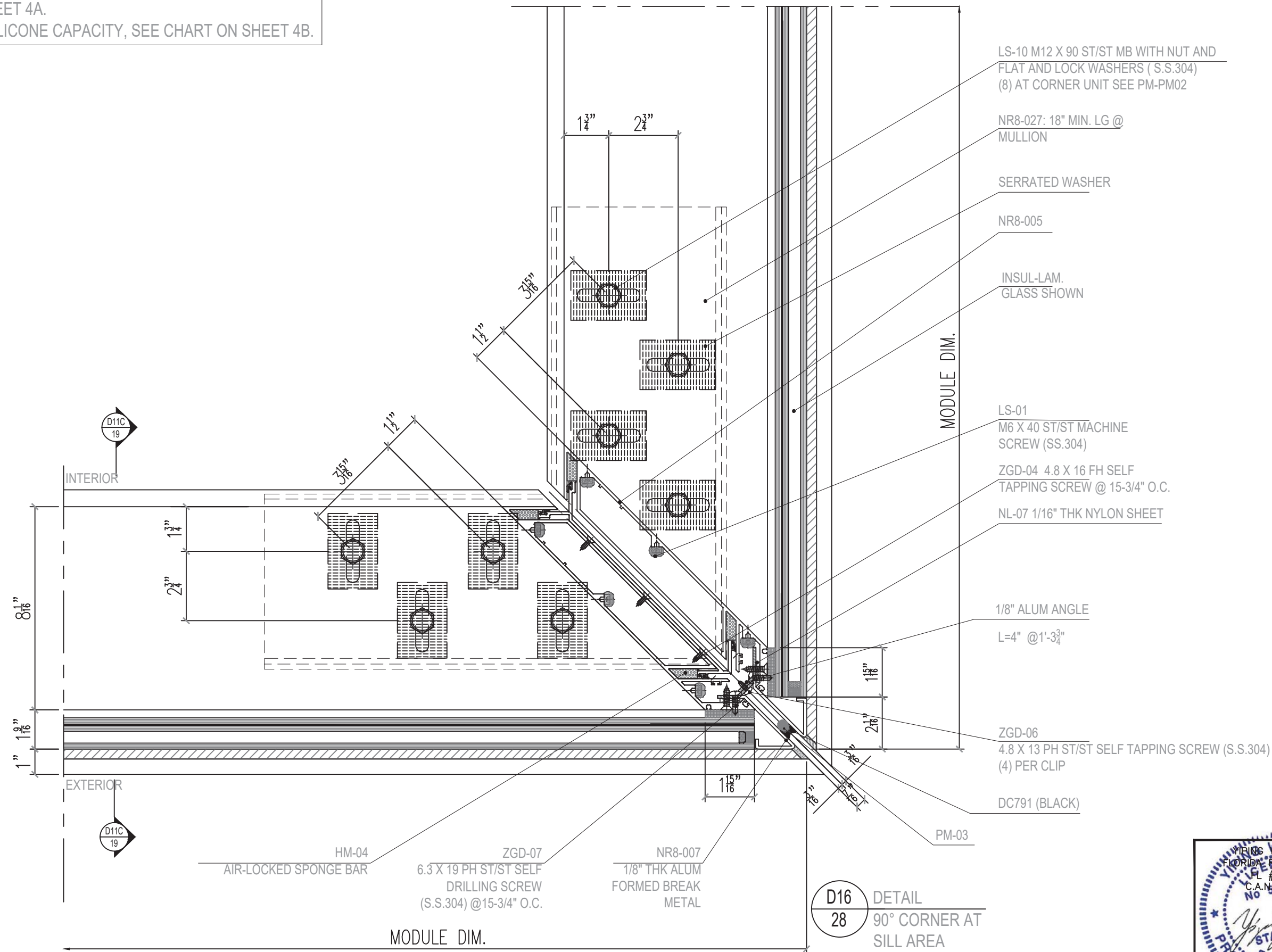
FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

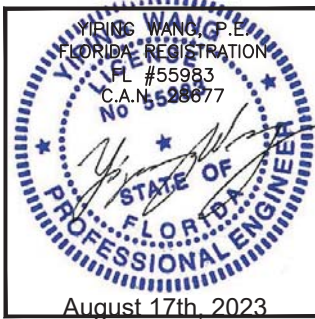
DRAWING NO.
AD16-10
D15-C

SHEET 27

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



D16
28
DETAIL
90° CORNER AT
SILL AREA



REVISIONS	
NO.	DATE
R3	08.10.23
DESCRIPTION	
FBC 2023	

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ENGINEERING, INC.

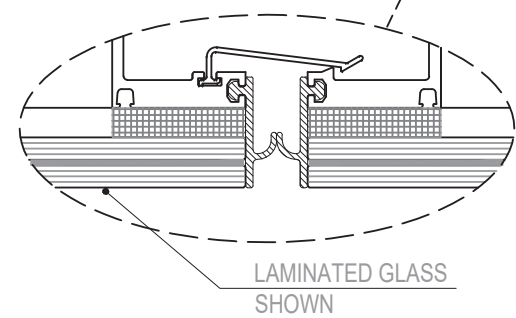
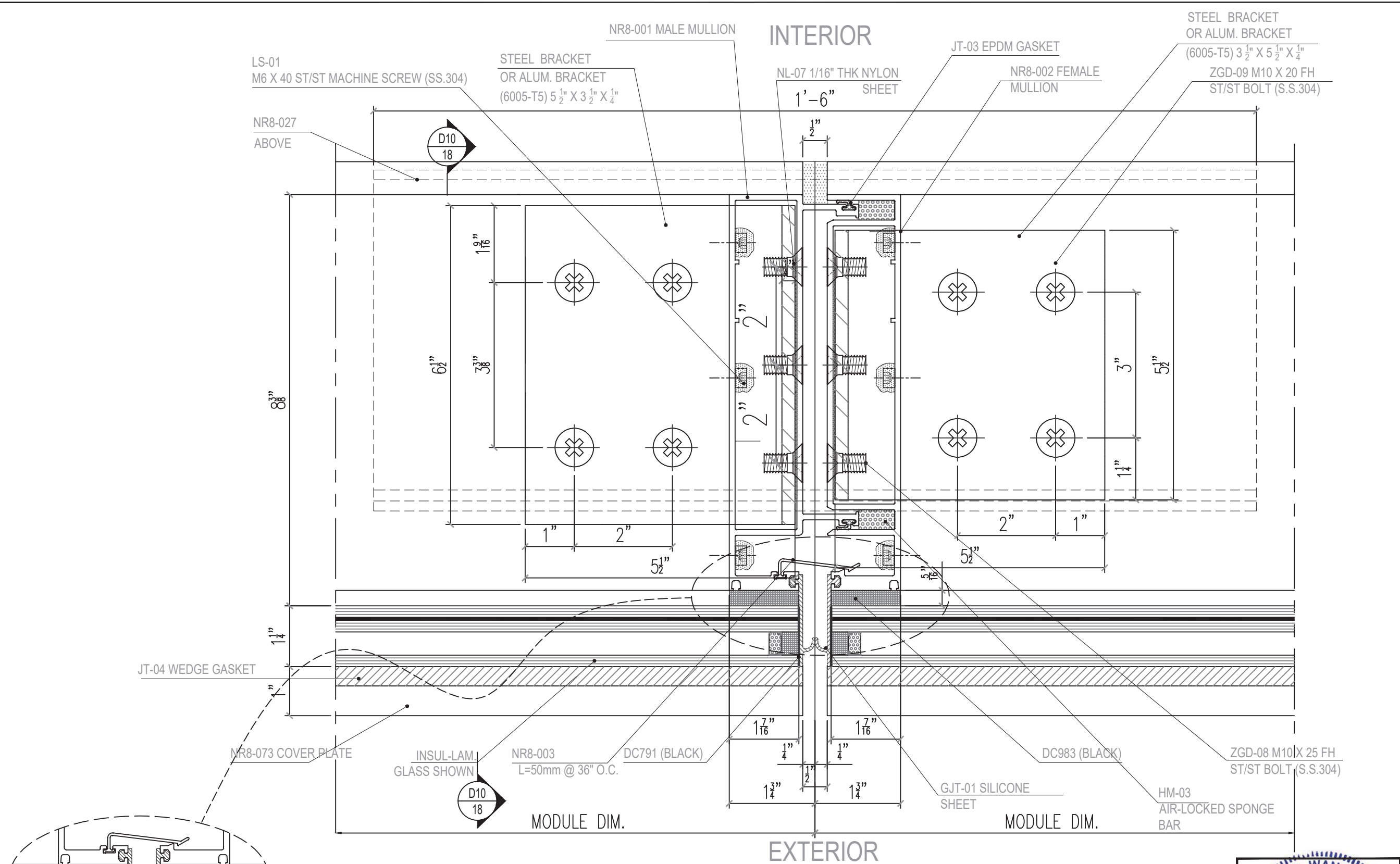
GLAZING CONSULTANTS

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MIAMI, FL 33183 F: 305.588.5224
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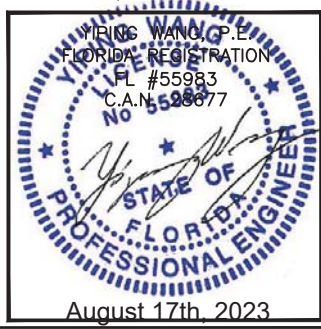
FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D16	
SHEET 28	



D17A
29
DETAIL

D17
29
DETAIL
INTERM VERT. MULLION AT STACK JOINT
FOR REINF. MULLION OPTION ON SHEET 5
& 5A

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



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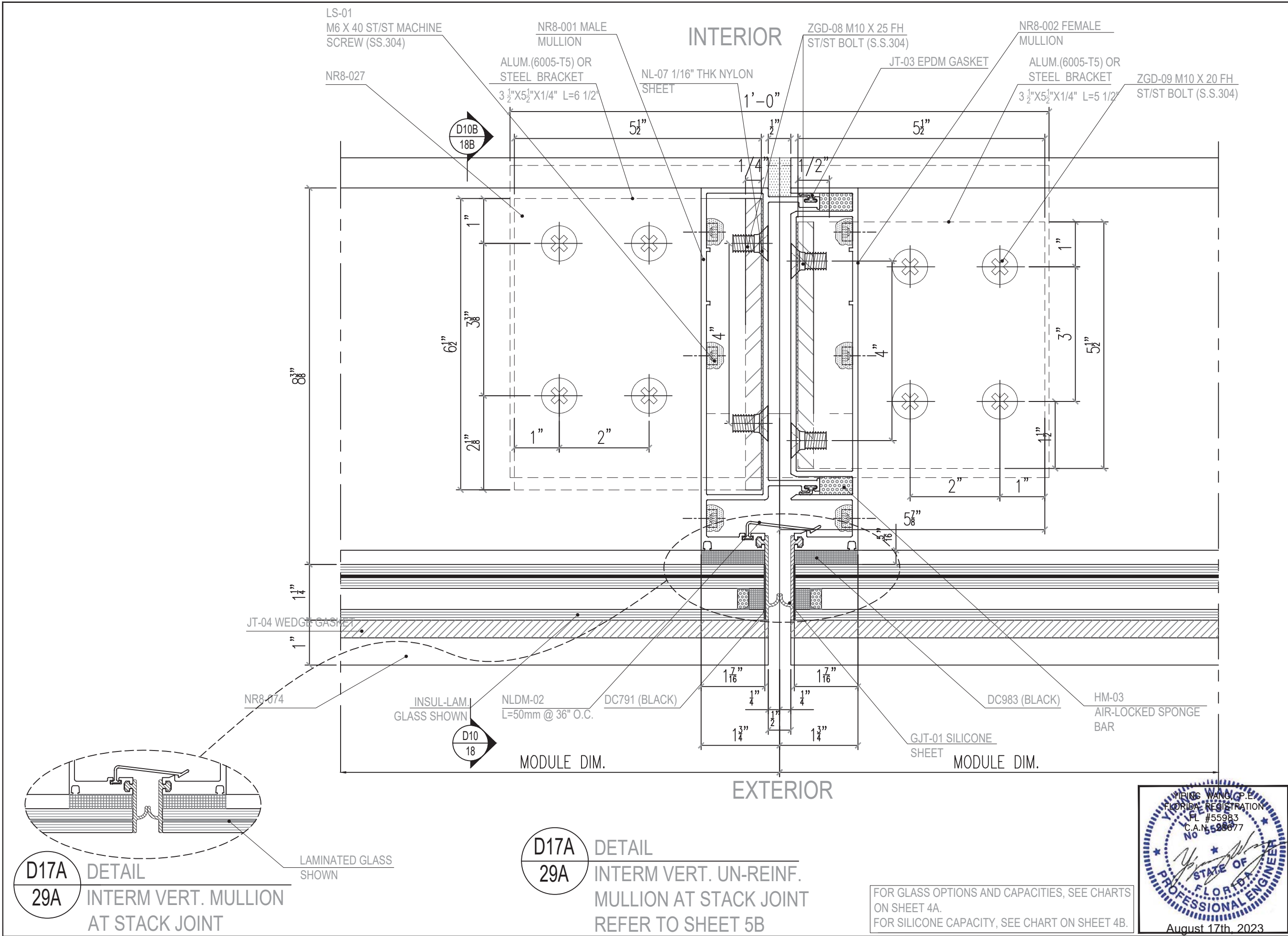
N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
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FLORIDA APPROVAL:
FL #20149.3

DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
D17

SHEET 29

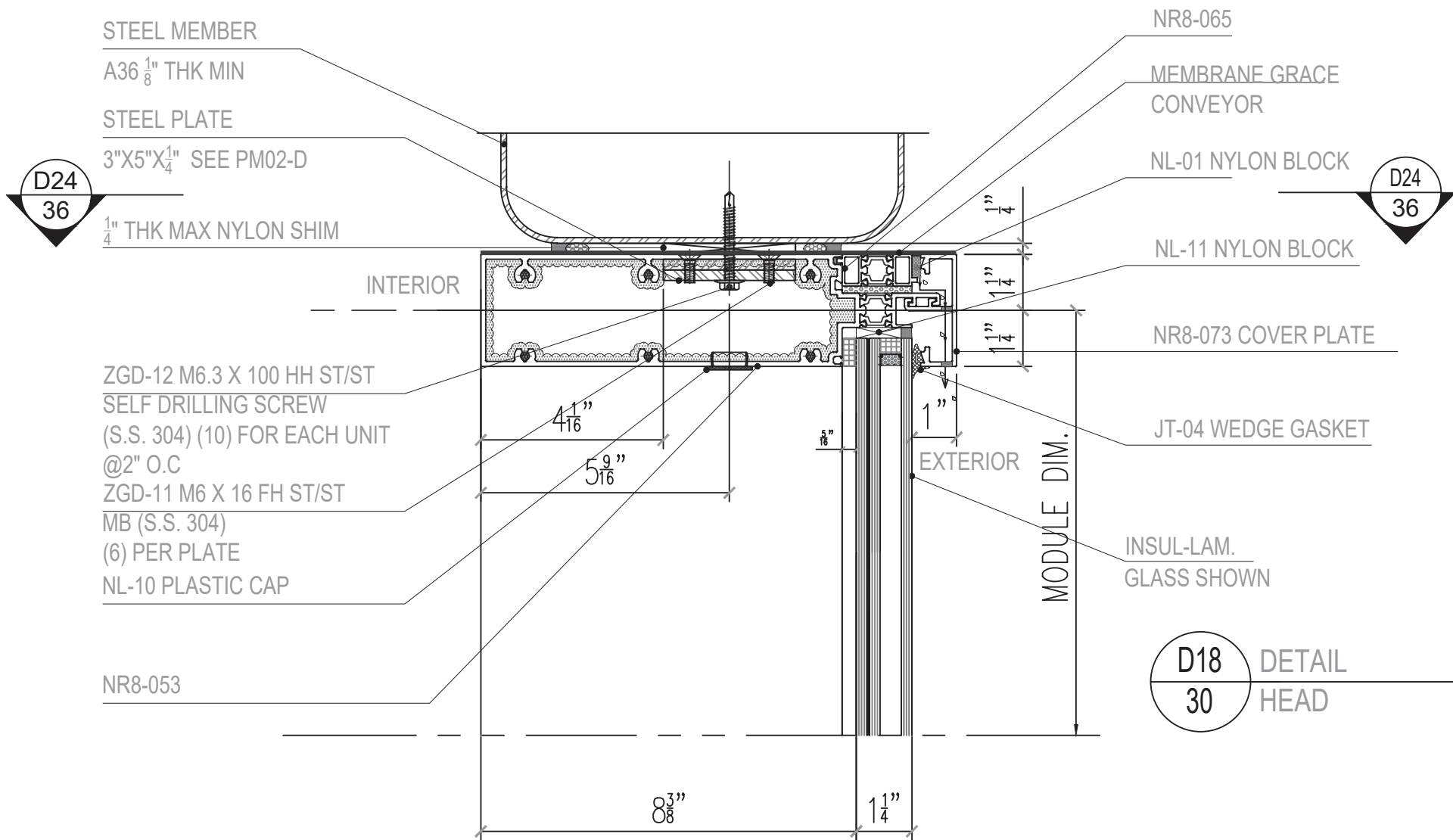


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NO.	DATE	DESCRIPTION	BY
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N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407 P: (561) 844 - 1121 F: (561) 844 - 6131	

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D17A	
SHEET 29A	



OPTION A

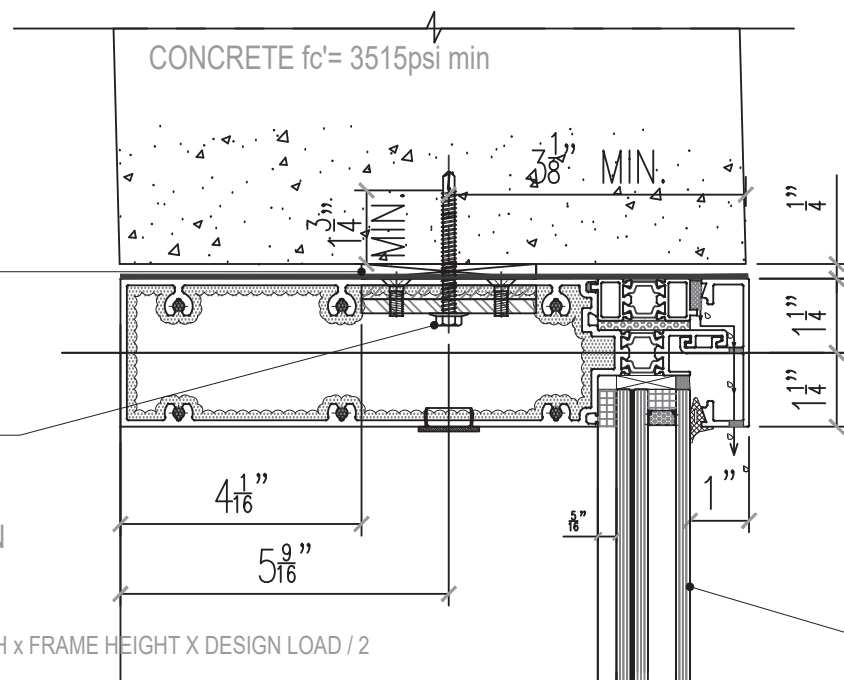
CONCRETE SUBSTRATE

$\frac{1}{4}$ " THK MAX NYLON
SHIM

$\frac{5}{16}$ " DIA. ULTRACON W/ $1 \frac{3}{4}$ " MIN.
EMBED. INTO CONCRETE &
3 $\frac{1}{8}$ " MIN. EDGE DIST.
(5) AT EACH SIDE OF MULLION
@ 2" O.C.

MAX LOAD Rmax = 3140 LBS

MAX LOAD Rmax = MULLION TRIB WIDTH x FRAME HEIGHT X DESIGN LOAD / 2



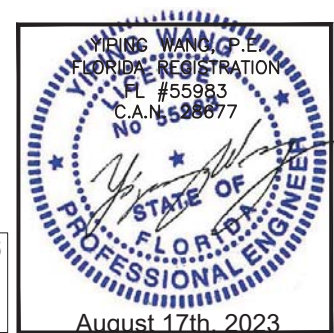
FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.

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FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D18	
SHEET 30	



PERIMETER SEAL

JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"

NR8-002 FEMALE
MULLION

STEEL BRACKET OR
ALUM. ANGLE(6005-T5)
5 1/2" LG FOR FEMALE MULLION 6
1/2" FOR MALE MULLION

LS-01
M6 X 40 ST/ST MACHINE
SCREW (SS.304)

ZGD-08 M10 X 25 FH
ST/ST BOLT (S.S.304)

HM-03 HM-04
AIR-LOCKED SPONGE
BAR

JT-03 EPDM GASKET

JT-04 WEDGE GASKET

INSUL-LAM.
GLASS SHOWN

NR8-074

WEEP HOLE

DC983 (BLACK)

DC791 (BLACK)

GJT-01 SILICONE
SHEET

NR8-213 1/8" THK ALUM
FORMED BREAK METAL

ZGD-04 4.8 X 16 FH
SELF TAPPING SCREW
@ 15-3/4" O.C.

DC983 (BLACK)

CD-01 4 X 12 ST/ST PIN
(S.S.304) @ 15-3/4" O.C.

NR8-108

NR8-004

NL-10 PLASTIC CAP

ZGD-02 4.8 X 16 PH ST/ST SELF TAPPING
SCREW (S.S.304) @ 15-3/4" O.C.

INTERIOR

EXTERIOR

MODULE DIM.

9" MIN.

5 1/2"

5 1/2"

3"

1"

1 1/2"

1"

2"

5 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

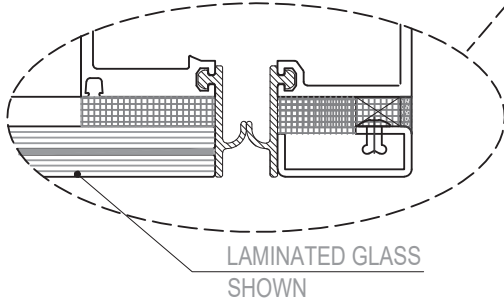
1 1/2"

1 1/2"

1 1/2"

SEE CHART

3/8" min
3/4" max



D19A
31

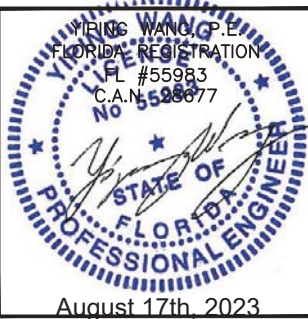
DETAIL

D19
31

DETAIL

RIGHT JAMB AT STACK JOINT

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



August 17th, 2023

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FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D19	
SHEET 31	

PERIMETER SEAL

JAMB MULL HT	min	max
10'-0"	0.385"	0.75"
12'-3"	0.472"	0.75"
15'-0"	0.577"	0.75"

NR8-002 FEMALE
MULLION

3 1/2"X5 1/2"X1/4" LG STEEL BRACKET
OR ALUM. ANGLE (6005-T5)
5 1/2" LG. INSIDE FEMALE MULLION
6 1/2" LG. INSIDE MALE MULLION

LS-01
M6 X 40 ST/ST MACHINE
SCREW (SS.304)

ZGD-08 M10 X 25 FH
ST/ST BOLT (S.S.304)

NR8-027

HM-03 HM-04
AIR-LOCKED SPONGE
BAR

JT-03 EPDM GASKET

JT-04 WEDGE GASKET

INSUL-LAM.
GLASS SHOWN

NR8-074

WEEP HOLE

DC983 (BLACK)

DC791 (BLACK)

GJT-01 SILICONE
SHEET

NR8-213 1/8" THK ALUM
FORMED BREAK METAL

ZGD-04 4.8 X 16 FH
SELF TAPPING SCREW
@ 15-3/4" O.C.

DC983 (BLACK)

CD-01 4 X 12 ST/ST PIN
(S.S.304) @ 15-3/4" O.C.

NR8-108

NR8-004

NL-10 PLASTIC CAP

ZGD-02 4.8 X 16 PH ST/ST SELF TAPPING
SCREW (S.S.304) @ 15-3/4" O.C.

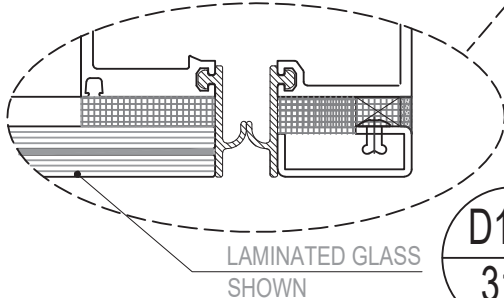
(3)ZGD-08 M10X25 FH
ST/ST BOLTS (SS304)

INTERIOR

EXTERIOR

MODULE DIM.

SEE CHART



LAMINATED GLASS
SHOWN

D19A
31A
DETAIL

D19
31A
DETAIL
RIGHT JAMB AT STACK JOINT

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)
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4348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D19A	
SHEET 31A	

REVISIONS

NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

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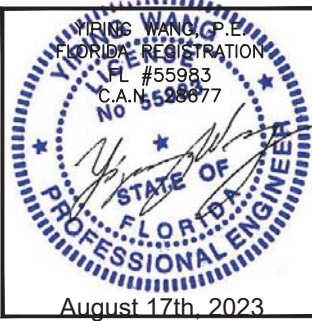
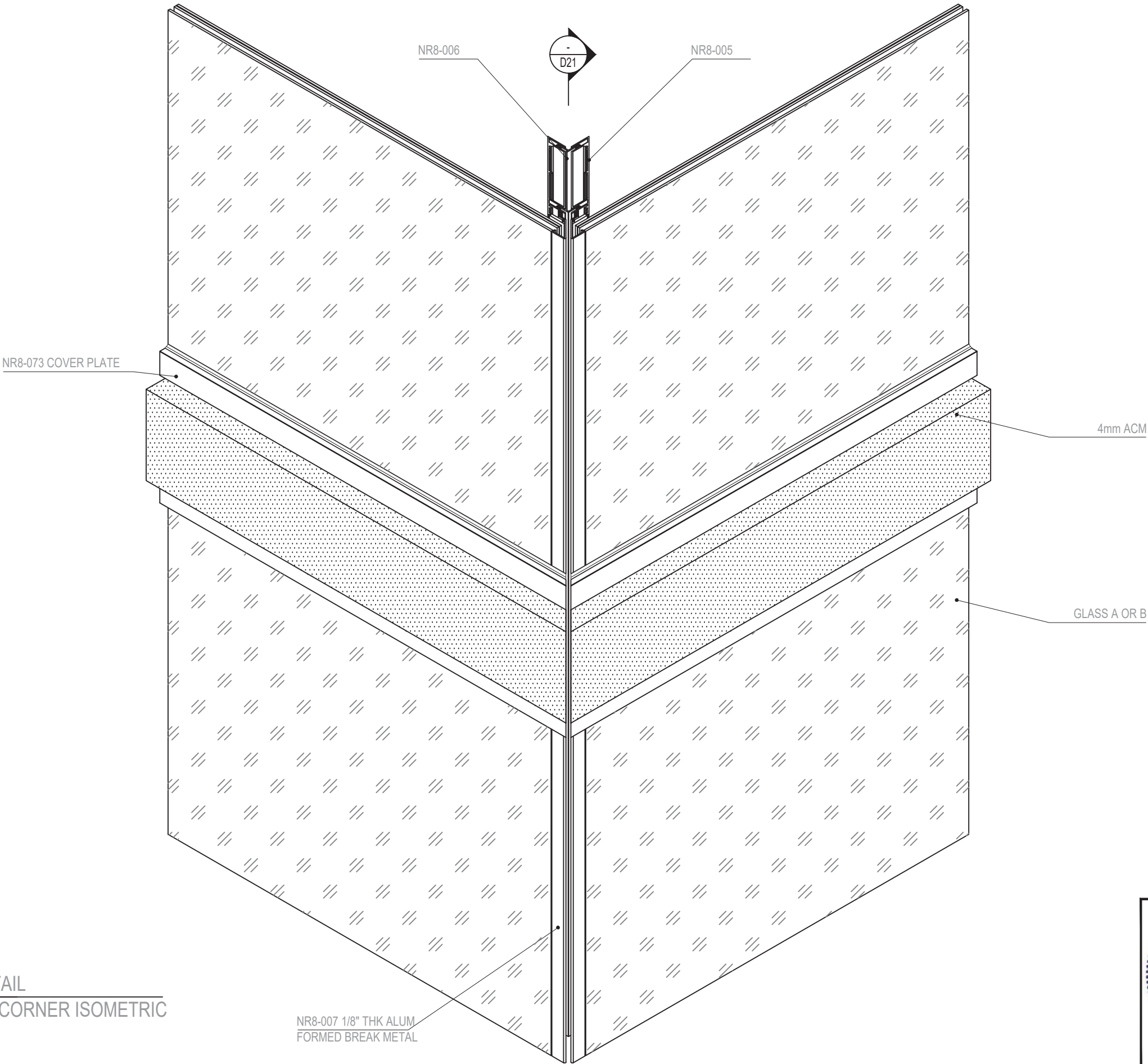
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MIAMI, FL 33183 F: 305.568.5224
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D20
32

DETAIL
90° CORNER ISOMETRIC

NR8-007 1/8" THK ALUM
FORMED BREAK METAL



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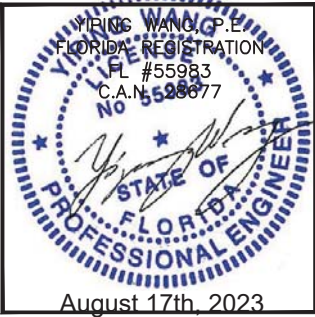
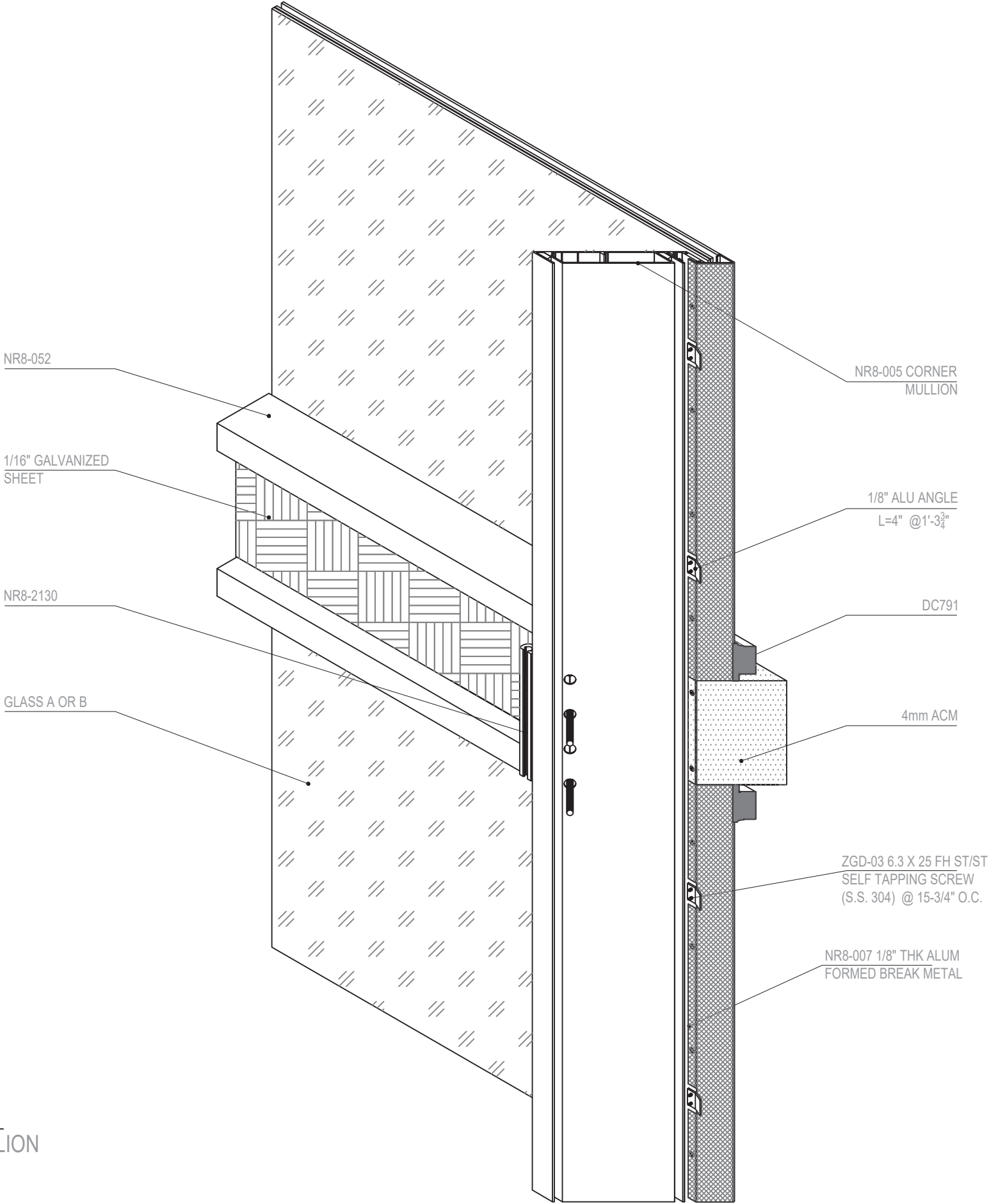
FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D20	
SHEET 32	

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REVISIONS	
NO.	DATE
R3	08.10.23
DESCRIPTION	
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D21
33

DETAIL
FEMALE 90° CORNER MULLION
ISOMETRIC

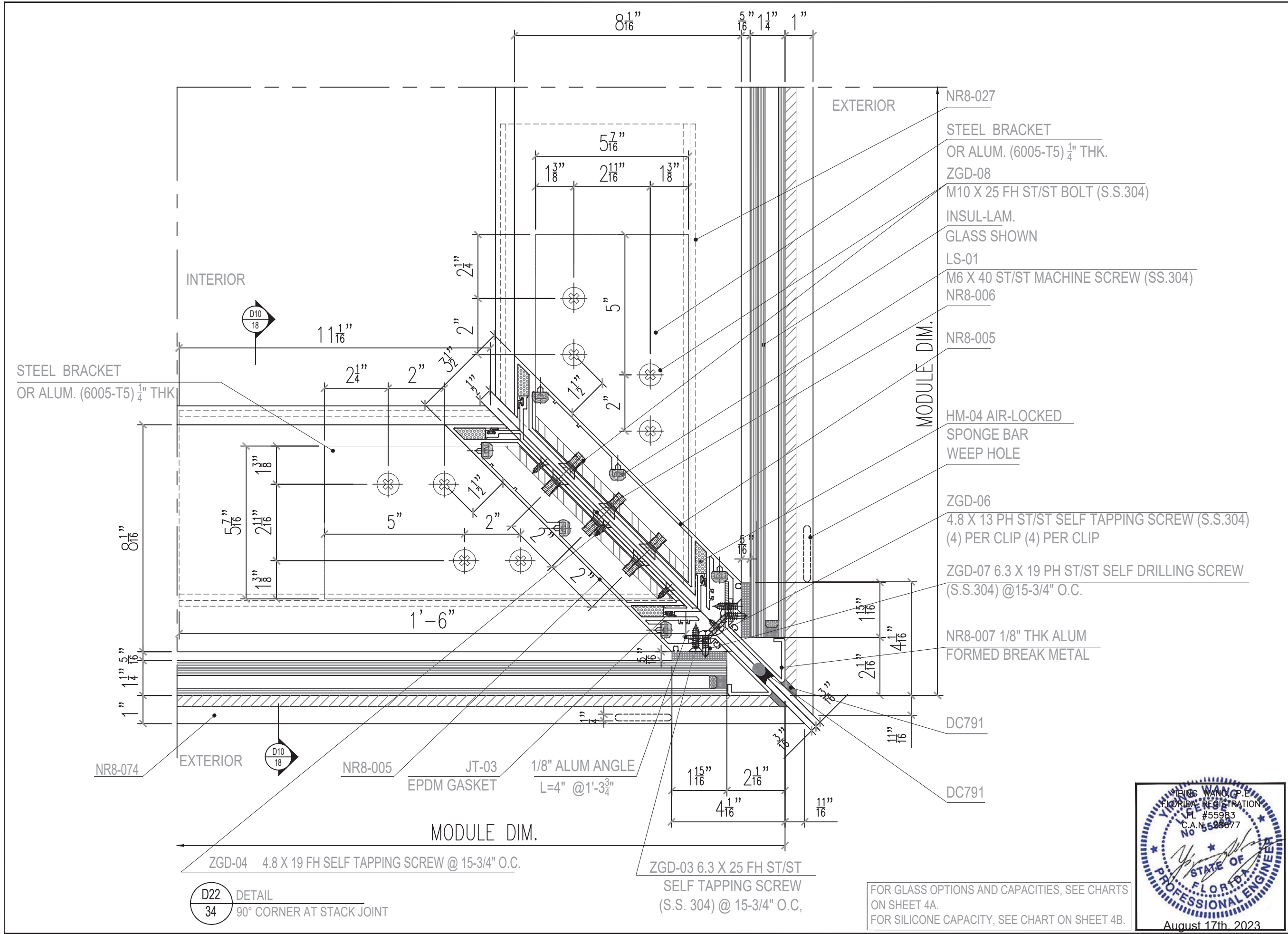


FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D21	
SHEET 33	

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)	
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NO.	DATE
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NO.	DATE
1	08.10.23
2	
3	
4	
5	

DESCRIPTION	
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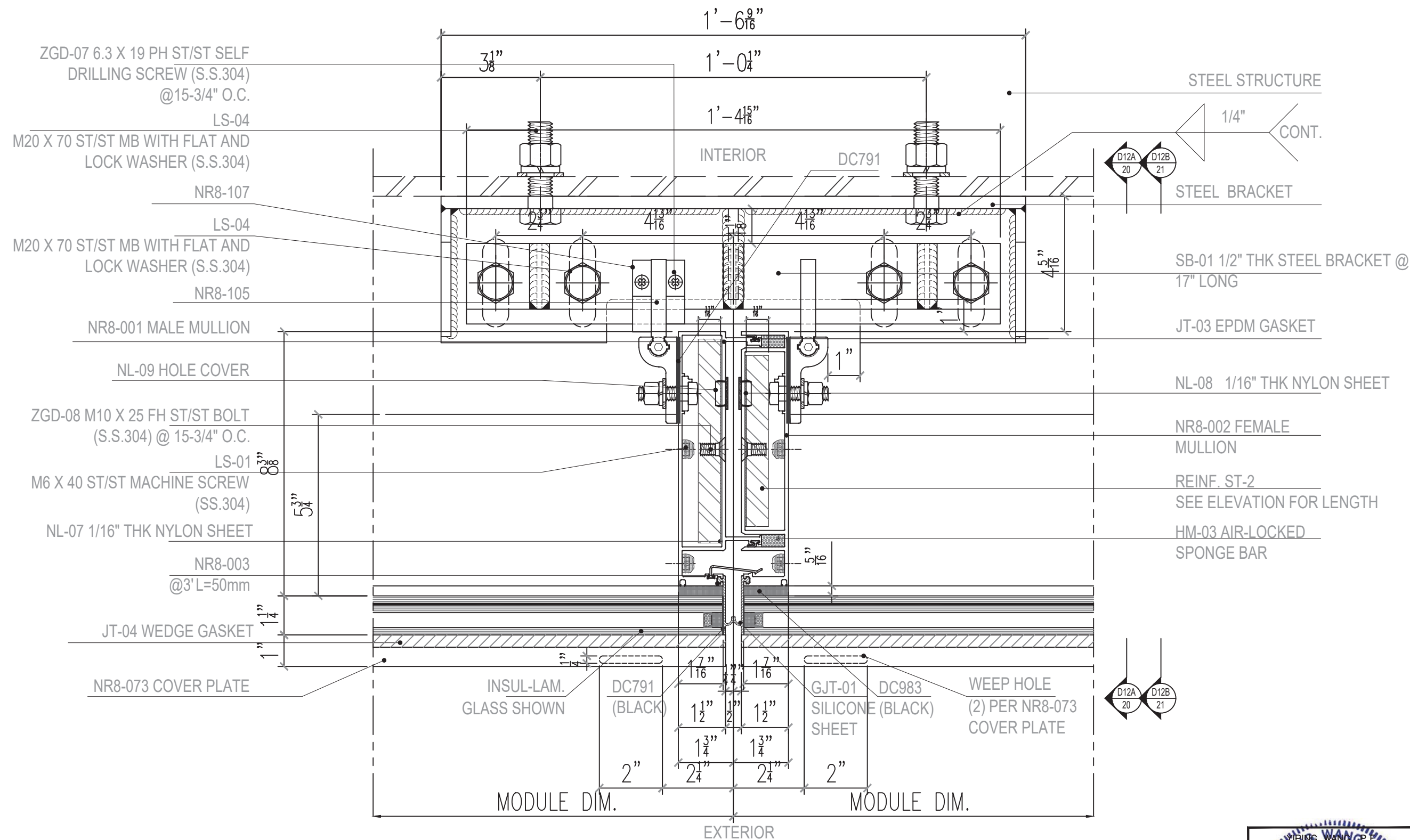
FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.	
AD16-10	
D22	

SHEET 34	



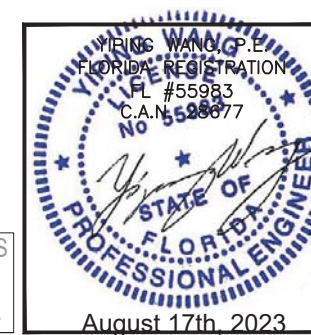
FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



D23
35

DETAIL
TYP INTERM MULLION AT SPANDREL AREA

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



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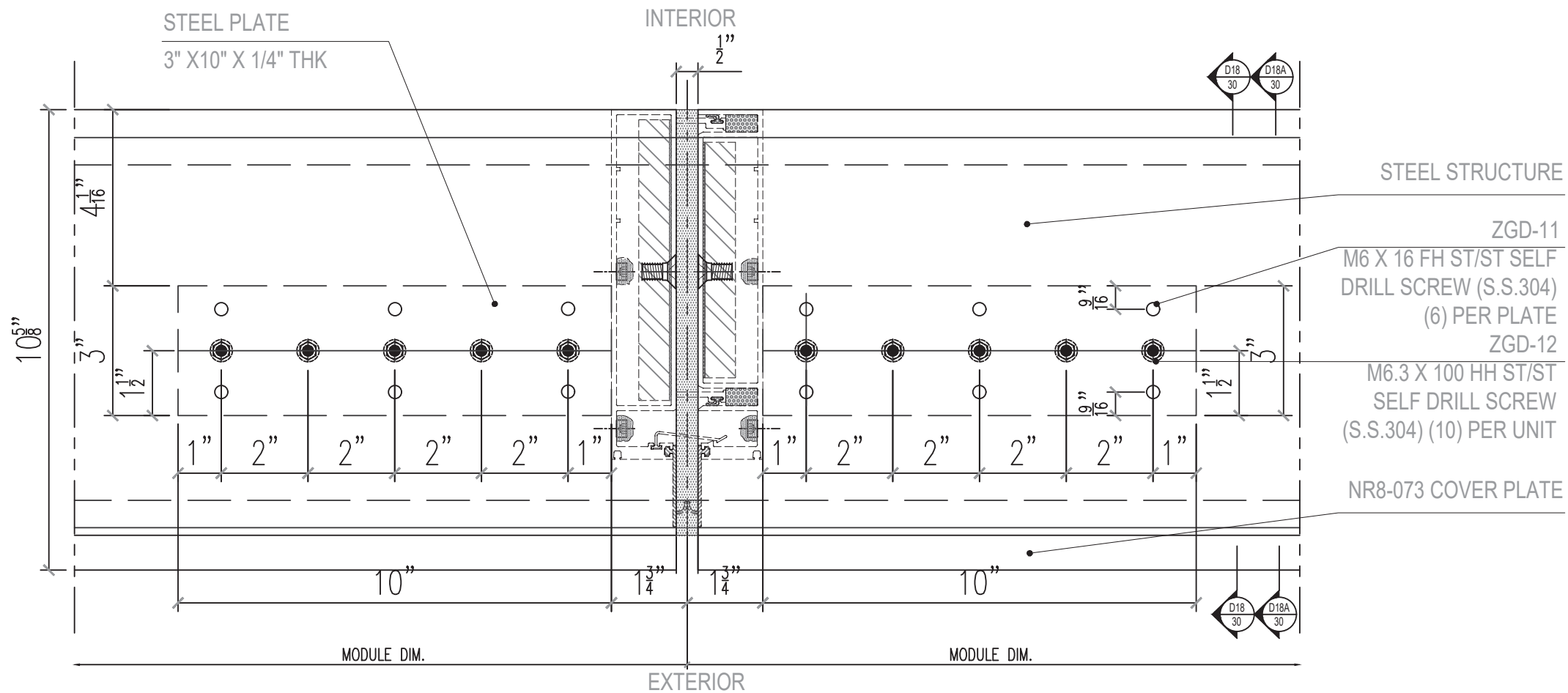
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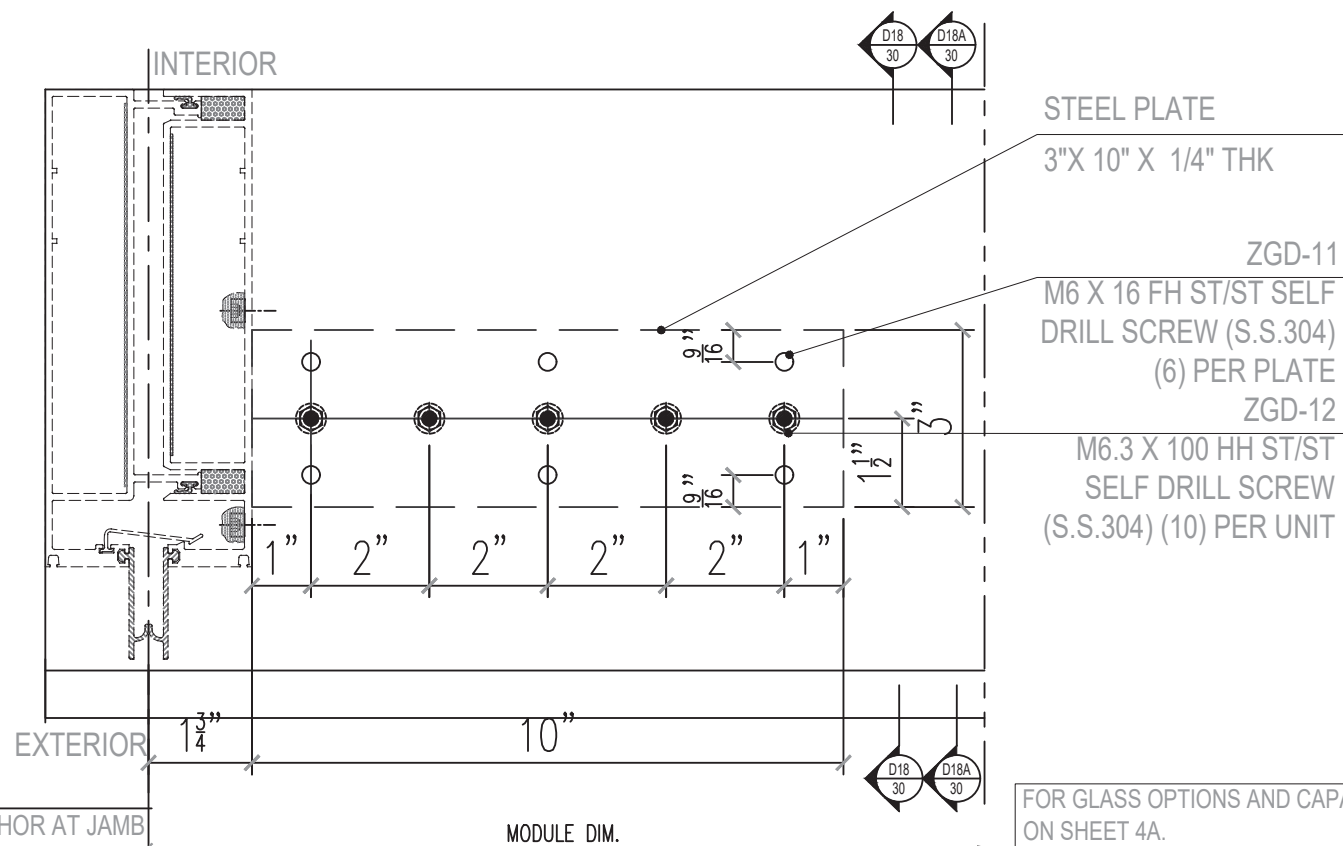
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WEST PALM BEACH, FL 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D23	
SHEET 35	



D24A
36
DETAIL
HEAD ANCHOR AT INTERM MULL



D24B
36
DETAIL
HEAD ANCHOR AT JAMB

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.

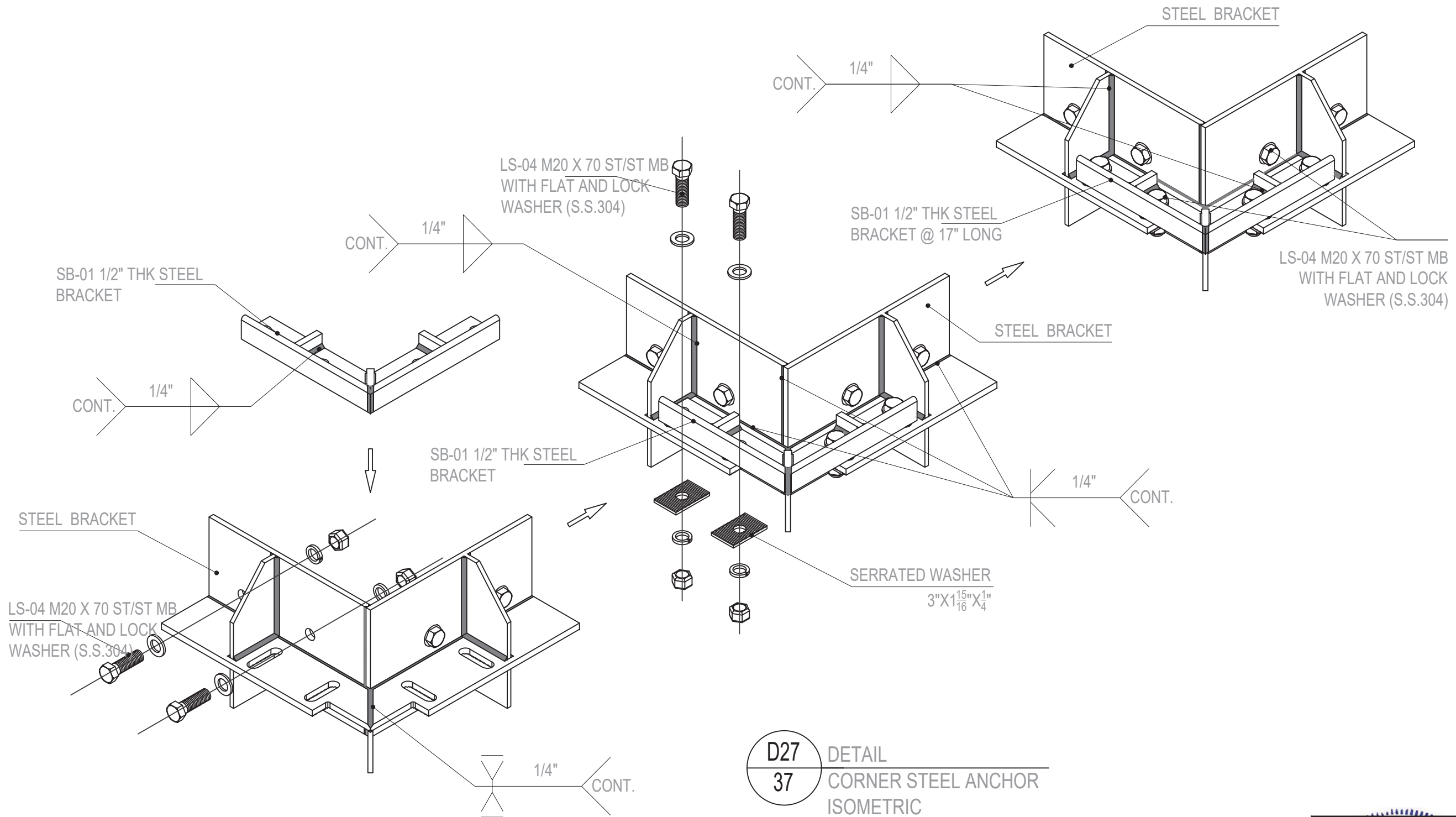


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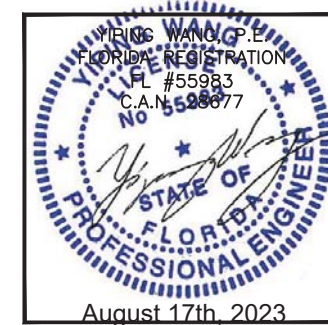
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FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D24	
SHEET 36	



D27
37 DETAIL
CORNER STEEL ANCHOR
ISOMETRIC



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NO.	DATE
R3	08.10.23
DESCRIPTION	
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FL #20149.3	
DATE	08.10.23
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DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	
AD16-10	
D27	
SHEET 37	

STEEL MEMBER
A36 1/8" THK MIN
STEEL PLATE
3"X5"X1/4" SEE PM02-D

1/4" THK MAX NYLON SHIM

ZGD-12 M6.3 X 100 HH ST/ST
SELF DRILLING SCREW (S.S. 04)
(10) FOR EACH UNIT @2" O.C

ZGD-11 M6 X 16 FH ST/ST
MB (S.S. 304)
(6) PER PLATE

(LS-01) GB70-85-M6X40MM S/S 304
SOCKET HEAD W/SPRING WASHER
GB93-87-6MM S/S 304

NL-10 PLASTIC CAP

NR8-055

DOW 790 PERIMETER SEAL

MEMBRANE GRACE CONVEYOR

HOLE COVER (GT-01) CAPITAL
TAPE 5/16" THK- 1 1/2"W 1-
SIDED ADHESIVE TAPE

DOW 983 II PART
STRUCTURAL SEALANT

9/16" LAMINATED
GLASS

OPTION A
CONCRETE SUBSTRATE

1/4" THK MAX NYLON SHIM

5/16" DIA. ULTRACON W/ 1 3/4" MIN.
EMBED. INTO CONCRETE &
3 1/8" MIN. EDGE DIST.
(5) AT EACH SIDE OF MULLION
@ 2" O.C.

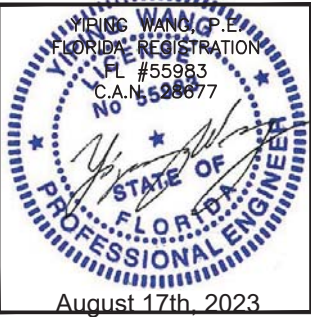
MAX LOAD Rmax = 3140 LBS
MAX LOAD Rmax = MULLION TRIB WIDTH x FRAME HEIGHT X DESIGN LOAD / 2

CONCRETE fc'= 3515 psi min

9/16" LAMINATED
GLASS

DETAIL
HEAD (OPTIONAL)

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.



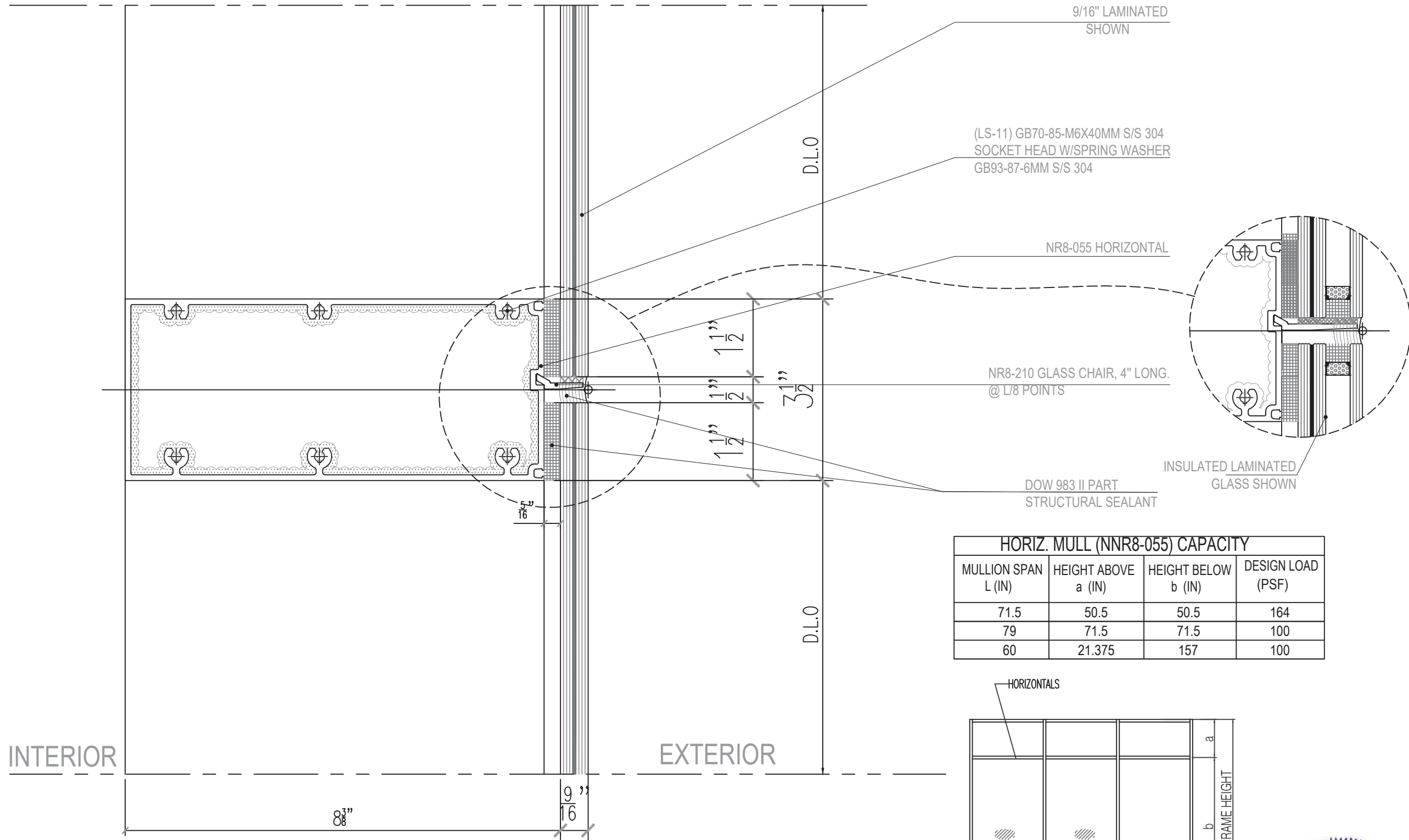
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MCY ENGINEERING, INC.
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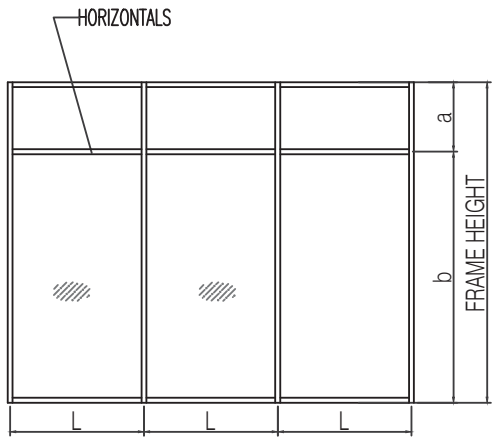
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.568.5224
www.MCYEngineering.com MCY@mcyengineering.com

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)	
N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407 P: (561) 844 - 1121 F: (561) 844 - 6131	

FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D28	
SHEET 38	



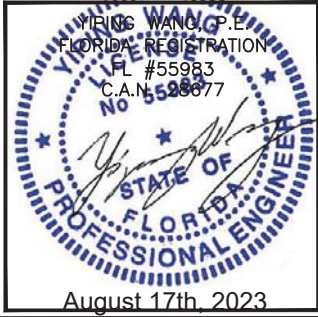
HORIZ. MULL (NNR8-055) CAPACITY			
MULLION SPAN L (IN)	HEIGHT ABOVE a (IN)	HEIGHT BELOW b (IN)	DESIGN LOAD (PSF)
71.5	50.5	50.5	164
79	71.5	71.5	100
60	21.375	157	100



D29
39

DETAIL
INTERMEDIATE HORIZONTAL

FOR GLASS OPTIONS AND CAPACITIES, SEE CHARTS
ON SHEET 4A.
FOR SILICONE CAPACITY, SEE CHART ON SHEET 4B.

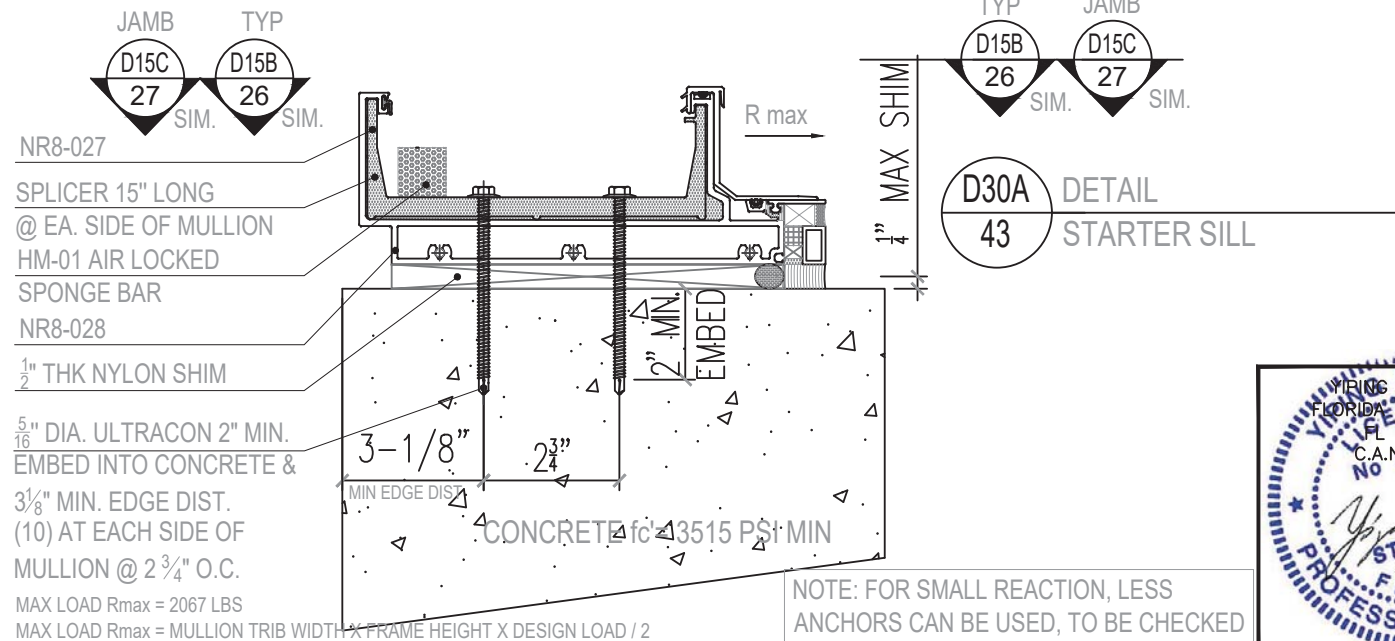
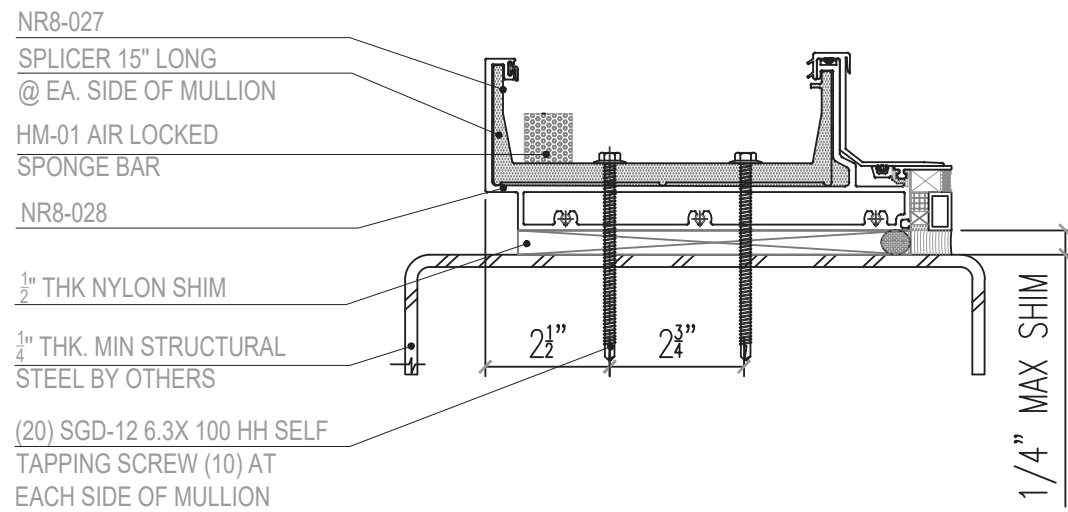
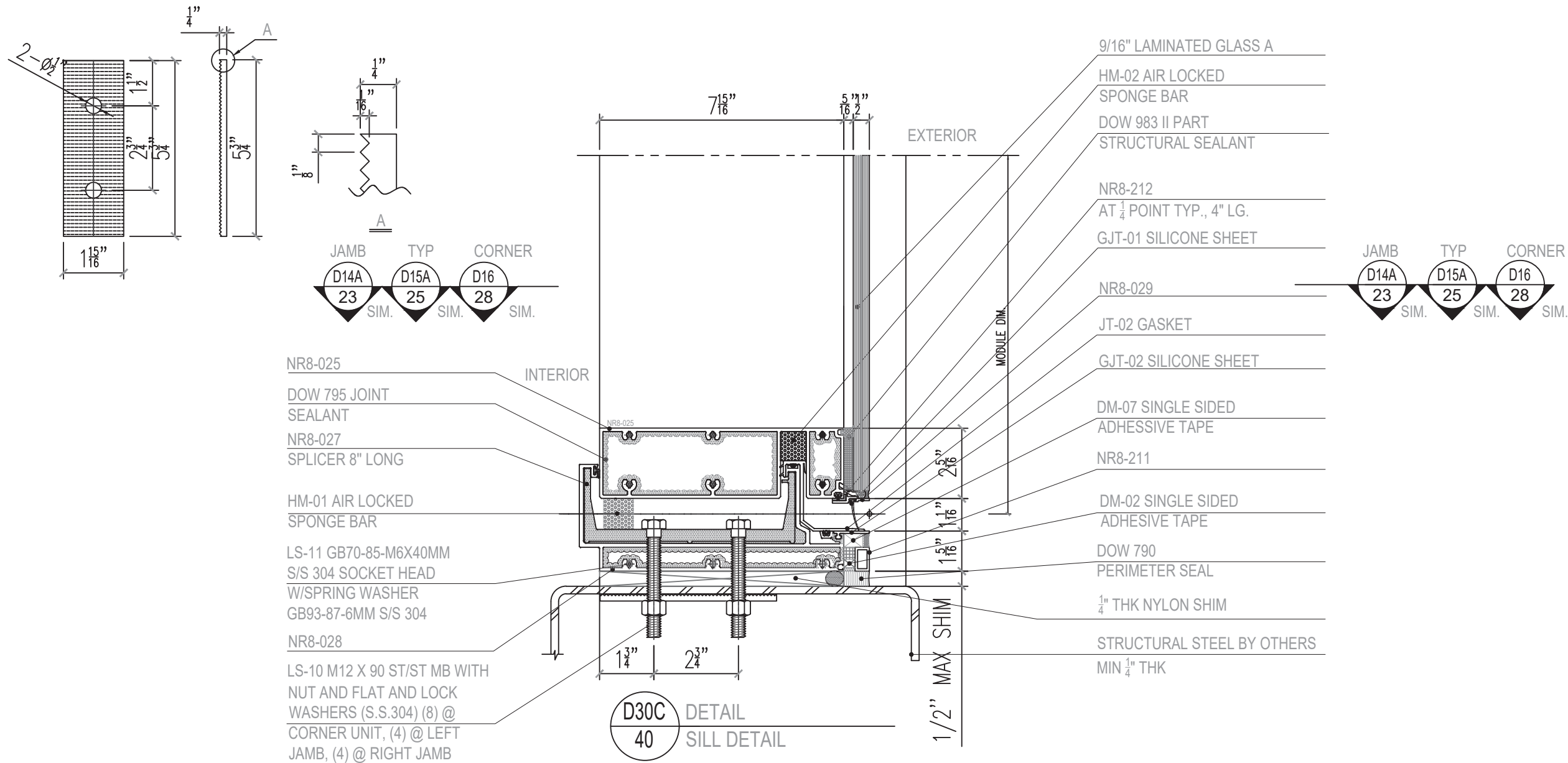


REVISIONS	
NO.	DATE DESCRIPTION
R3	08.10.23 FBC 2023

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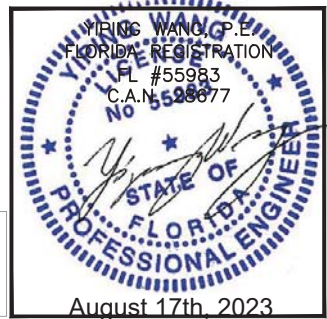
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.) N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407 P: (561) 844 - 1121 F: (561) 844 - 6131	
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FLORIDA APPROVAL: FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO. AD16-10 D29	
SHEET 39	



NOTE: FOR SMALL REACTION, LESS ANCHORS CAN BE USED, TO BE CHECKED ON JOB BASIS BY DELEGATED ENGINEER.

NOTE: FOR SMALL REACTION, LESS ANCHORS CAN BE USED, TO BE CHECKED ON JOB BASIS BY DELEGATED ENGINEER.

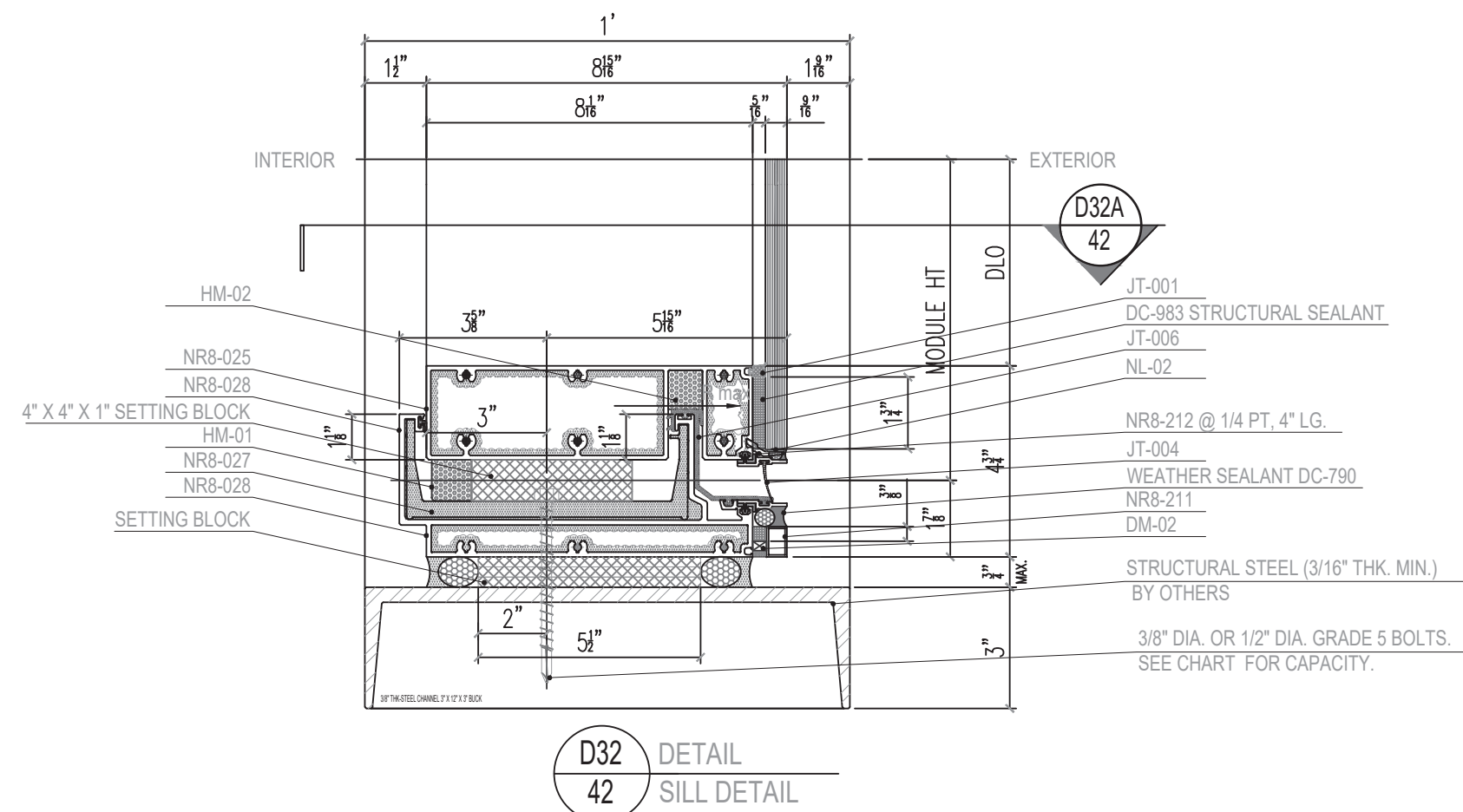
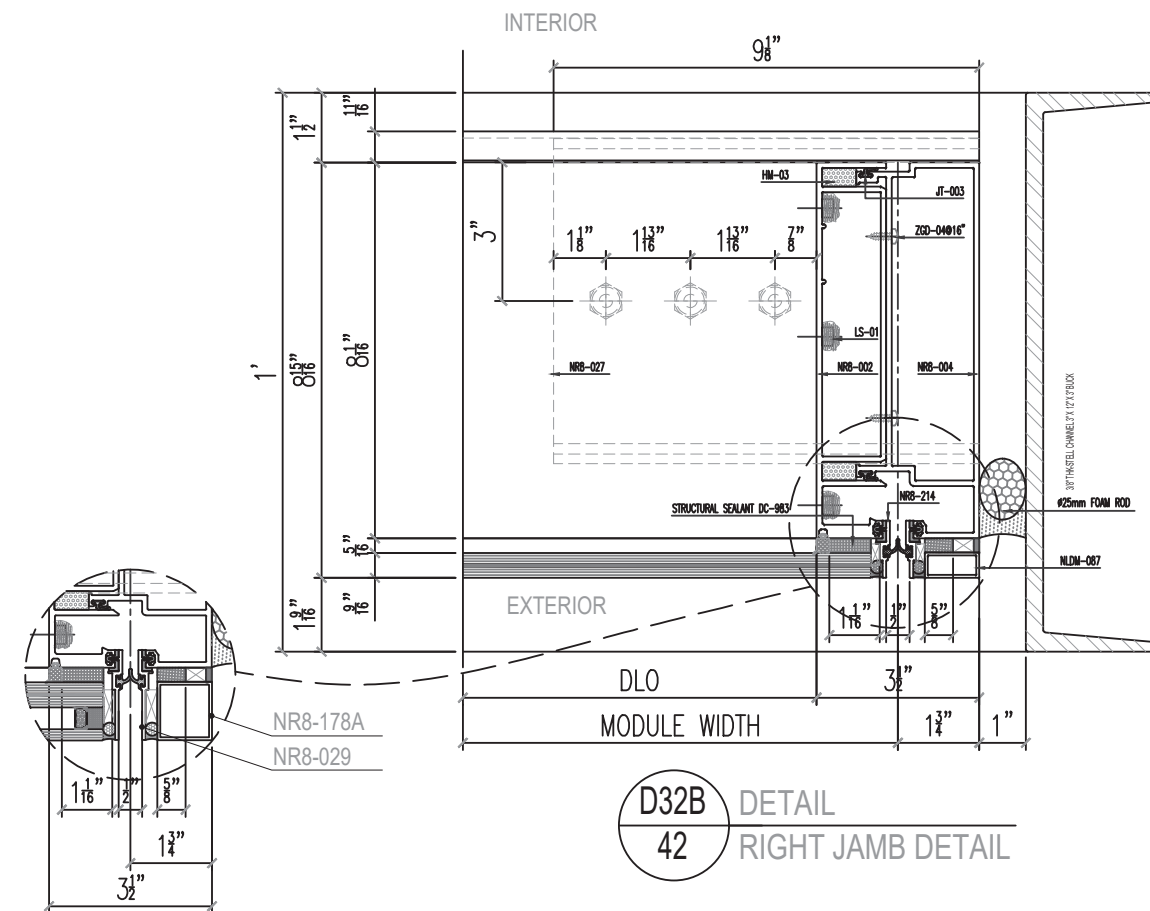
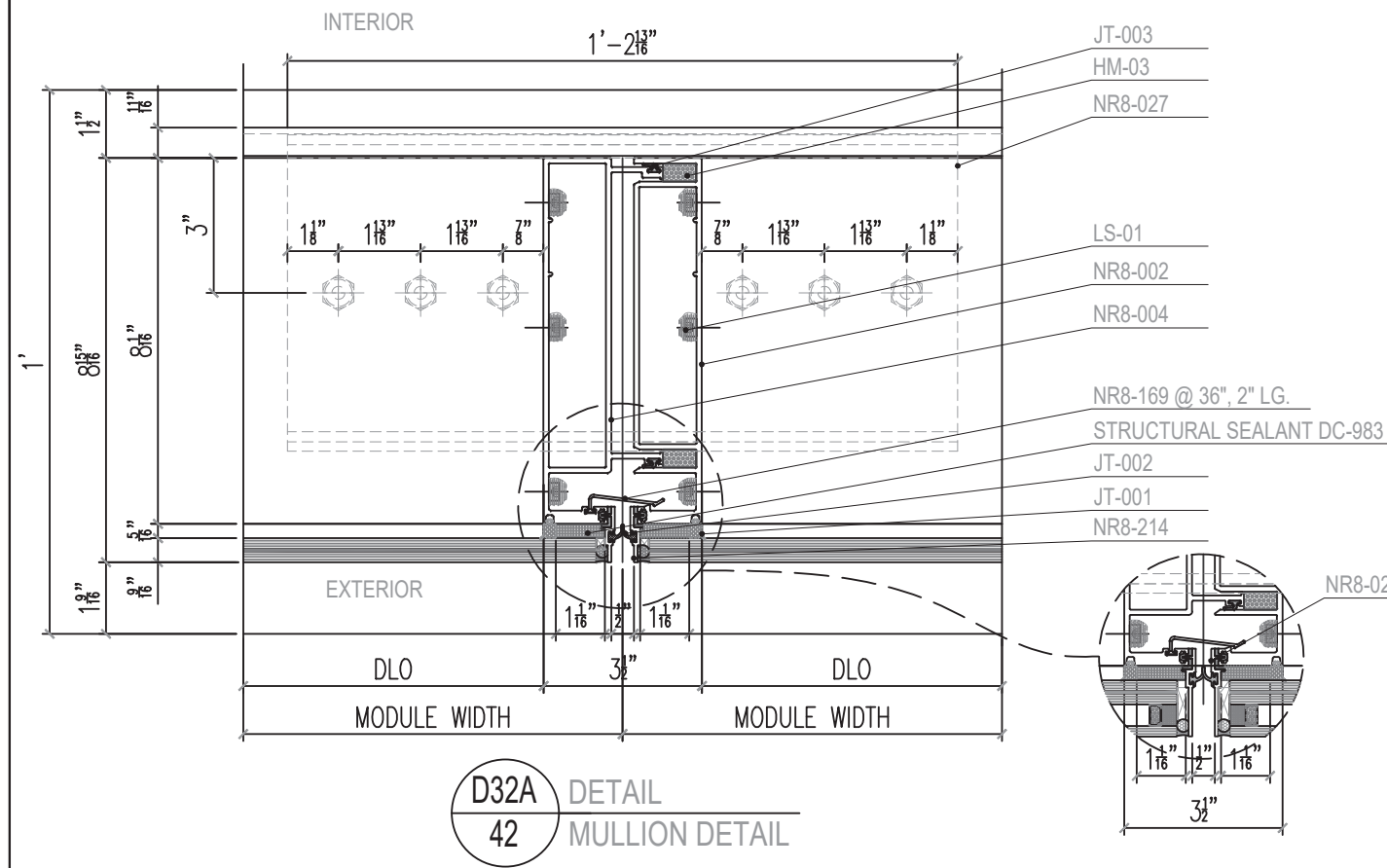


REVISIONS		NO. DATE DESCRIPTION	
		R3	08.10.23 FBC 2023

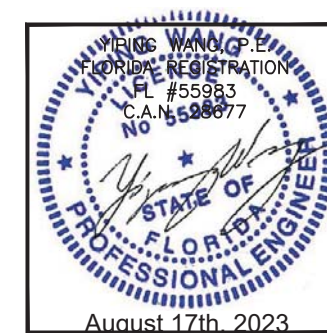
MCY ENGINEERING, INC.		GLAZING CONSULTANTS	
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www.MCYEngineering.com		MCY@mcyeengineering.com	

SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)		N.R. ARCHITECTURAL PRODUCTS, INC.	
4348 WESTROADS DRIVE		WEST PALM BEACH, FL 33407	
P: (561) 844 - 1121		F: (561) 844 - 6131	

FLORIDA APPROVAL:		FL #20149.3	
DATE	08.10.23	SCALE	AS NOTED
DRAWN	James	PROJECT	MCY16-022
DRAWING NO.		AD16-10	
		D30	
SHEET		40	



GRADE 5 BOLTS				
MAX. ANCHOR CAPACITIES	3/8" DIA.			1/2" DIA.
	(2) /SIDE	(3) /SIDE	(4) /SIDE	(2) /SIDE
SUBSTRATE	3/16" STL			1/4" STL
Rmax. (LB)	2060	3090	4120	3900



REVISIONS		
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R3	08.10.23	FBC 2023

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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

N.R. ARCHITECTURAL PRODUCTS, INC.

4348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407

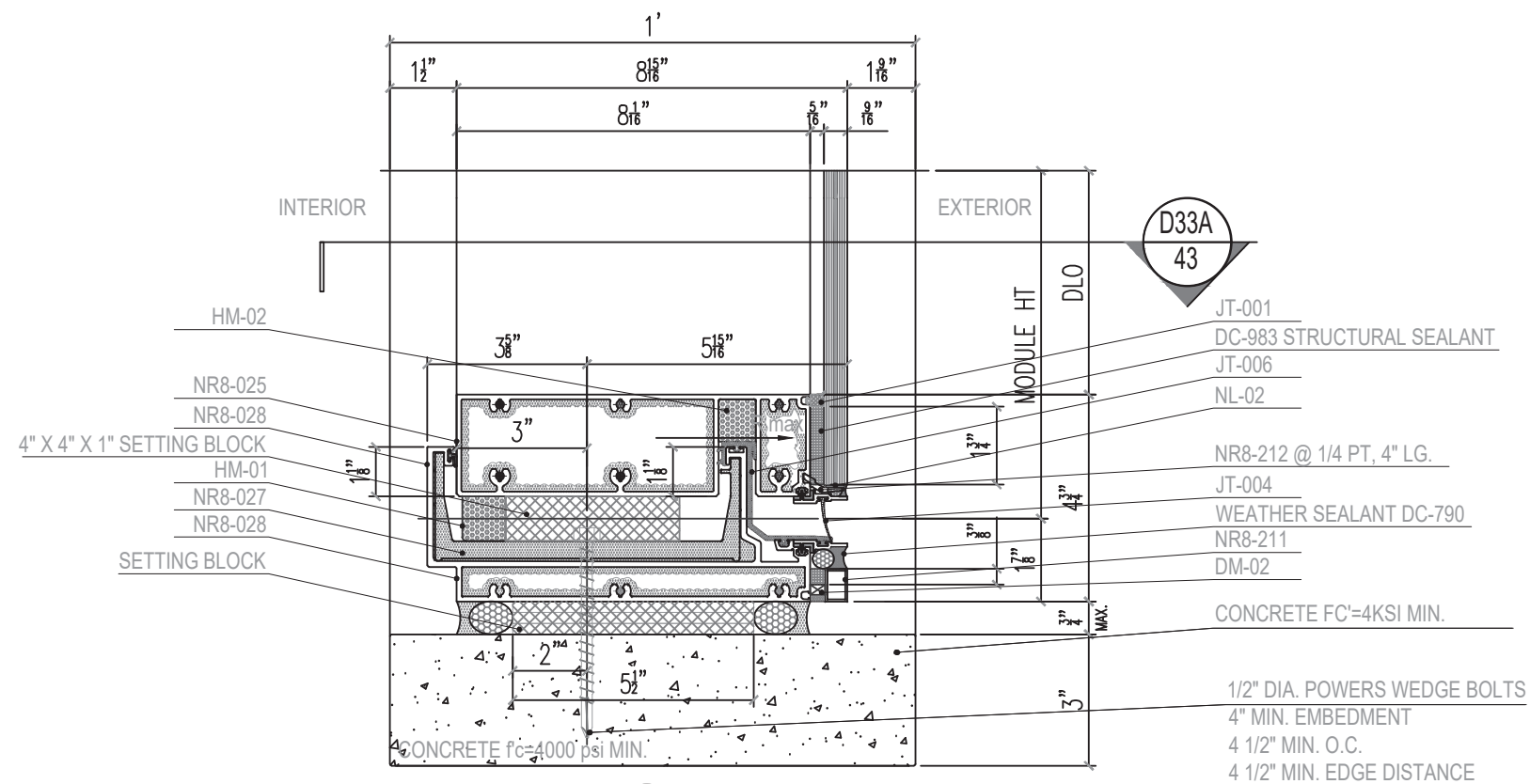
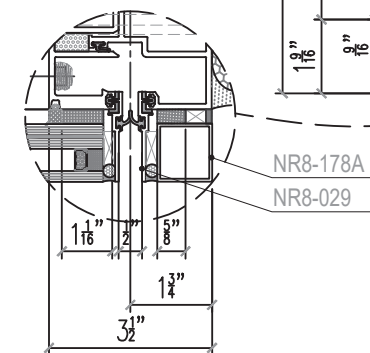
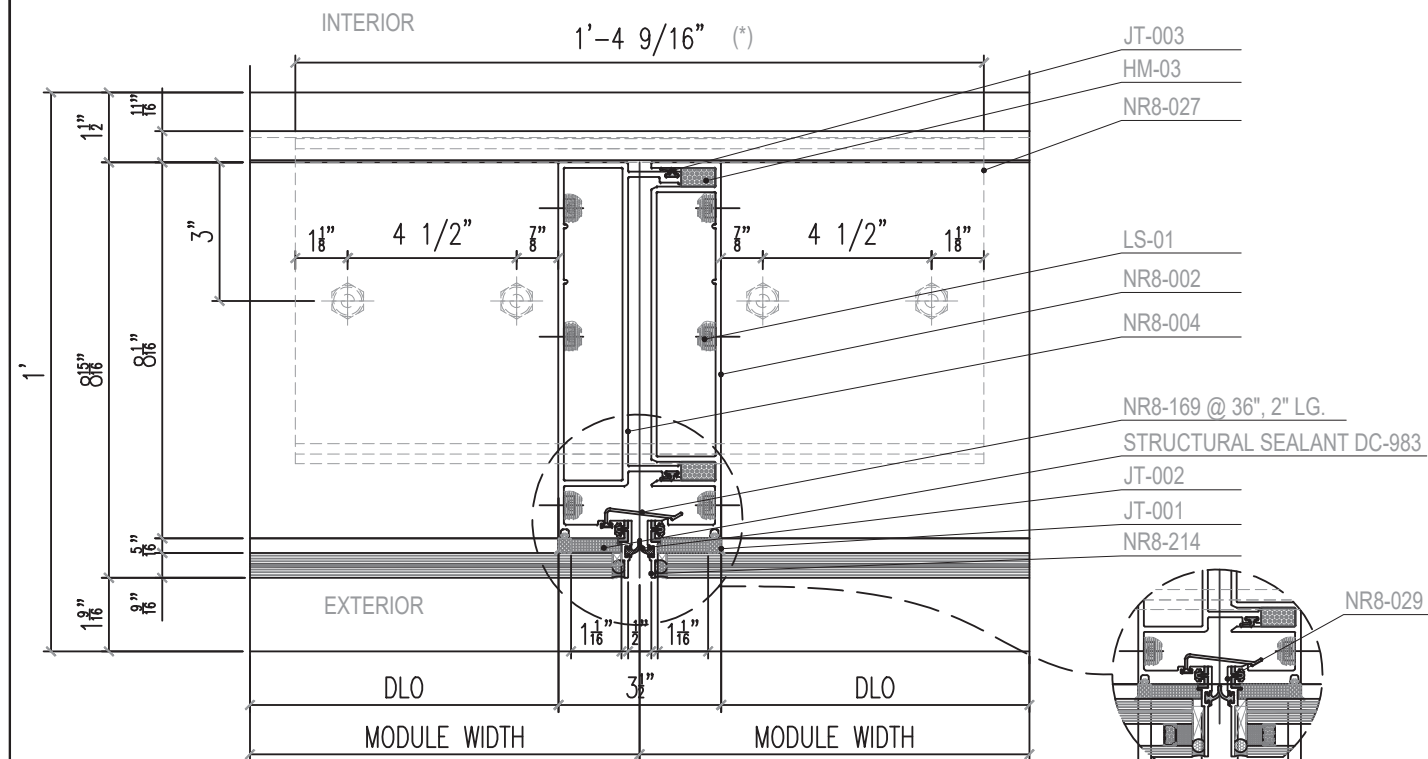
WEST PALM BEACH, FL. 33407
P: (561) 844 - 1121 F: (561) 844 - 6131

FLORIDA APPROVAL:
FL #20149.3

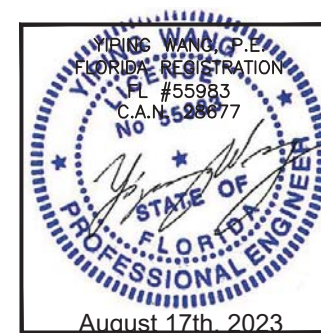
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022

DRAWING NO.
AD16-10
D32

SHEET 42



MAX. CAPACITIES ANCHOR TYPE	1/2" DIA. PWB	
	(2) /SIDE	(3) /SIDE
Rmax. (LB)	2780	4170



REVISIONS		
NO.	DATE	DESCRIPTION
R3	08.10.23	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

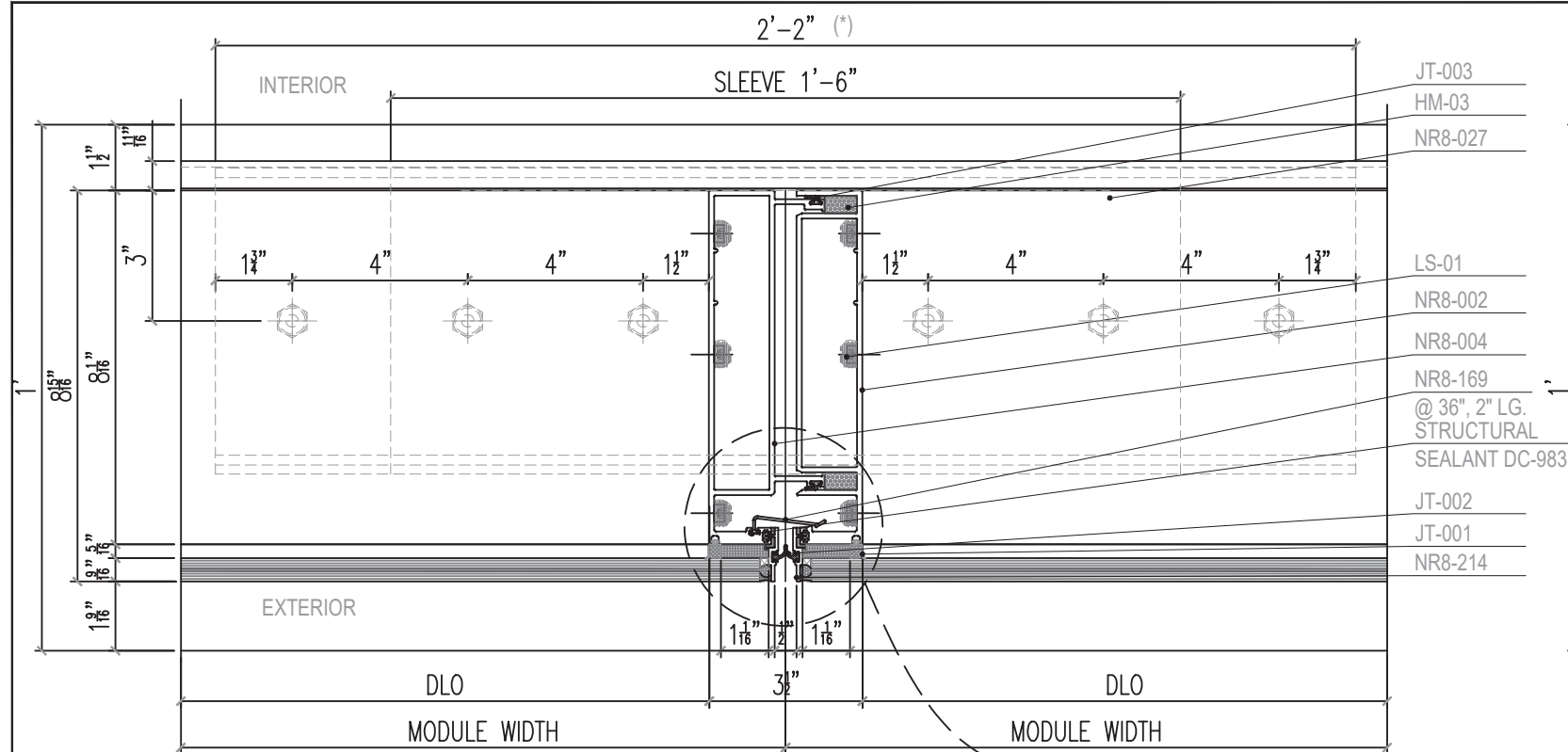
8501 SW 124 AVE. STE. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.588.5224

www.MCYEngineering.com MCY@mcyengineering.com

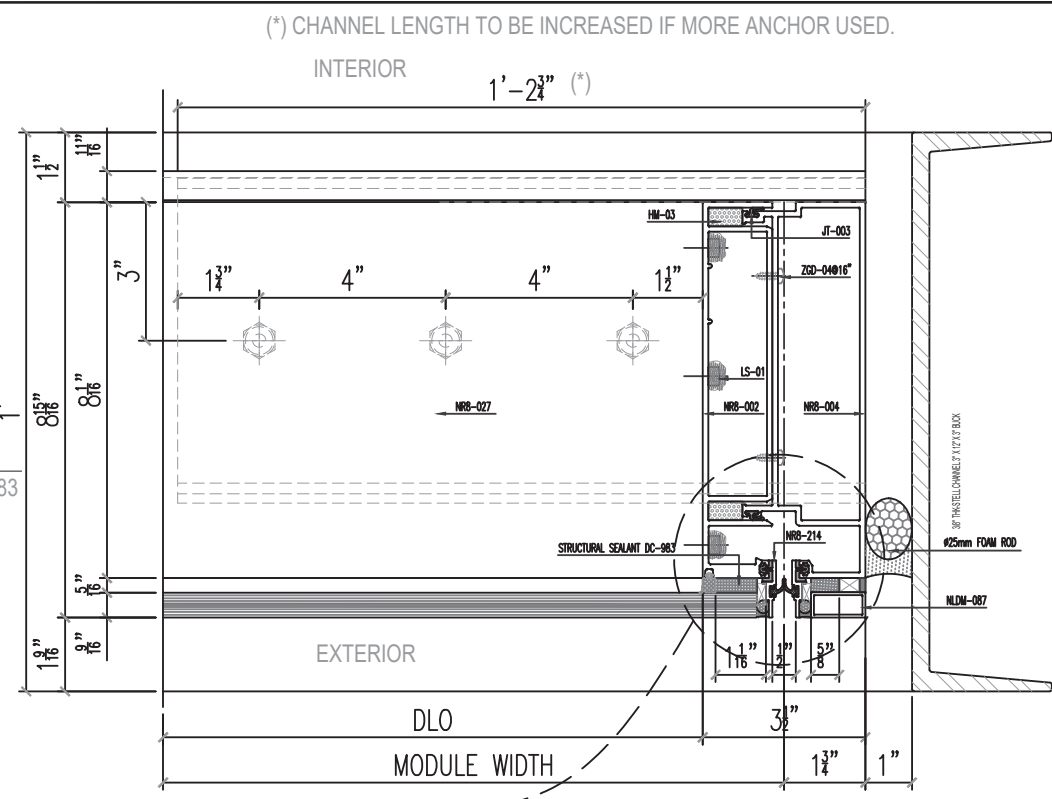
SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

N.R. ARCHITECTURAL PRODUCTS, INC.
4348 WESTROADS DRIVE
WEST PALM BEACH, FL. 33407
P. (561) 844 - 1121 F. (561) 844 - 6131

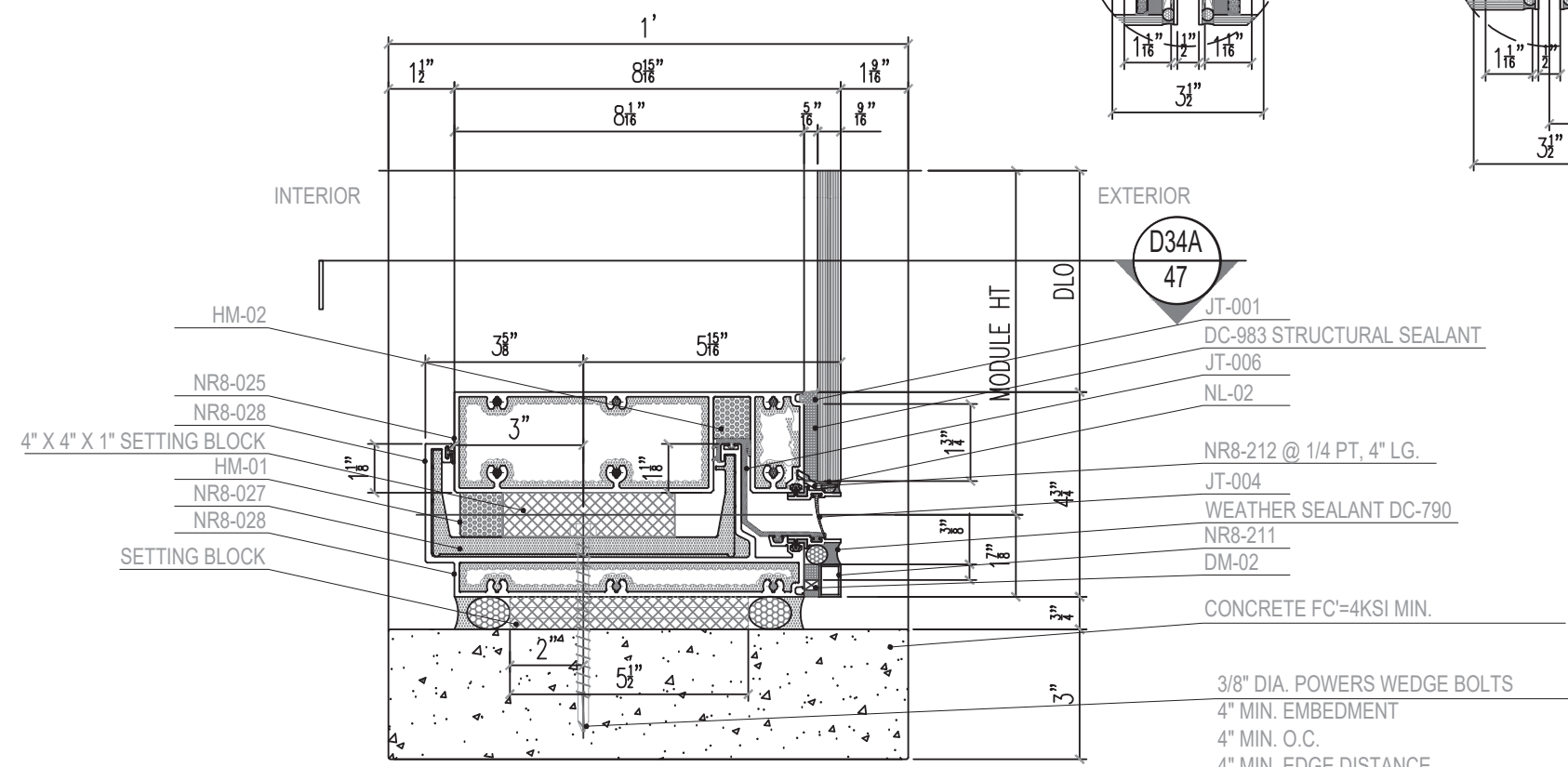
FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	
AD16-10	
D33	
SHEET 43	



D34A
D44 DETAIL OPTION
MULLION DETAIL



D34B
D44 DETAIL OPTION
MULLION DETAIL

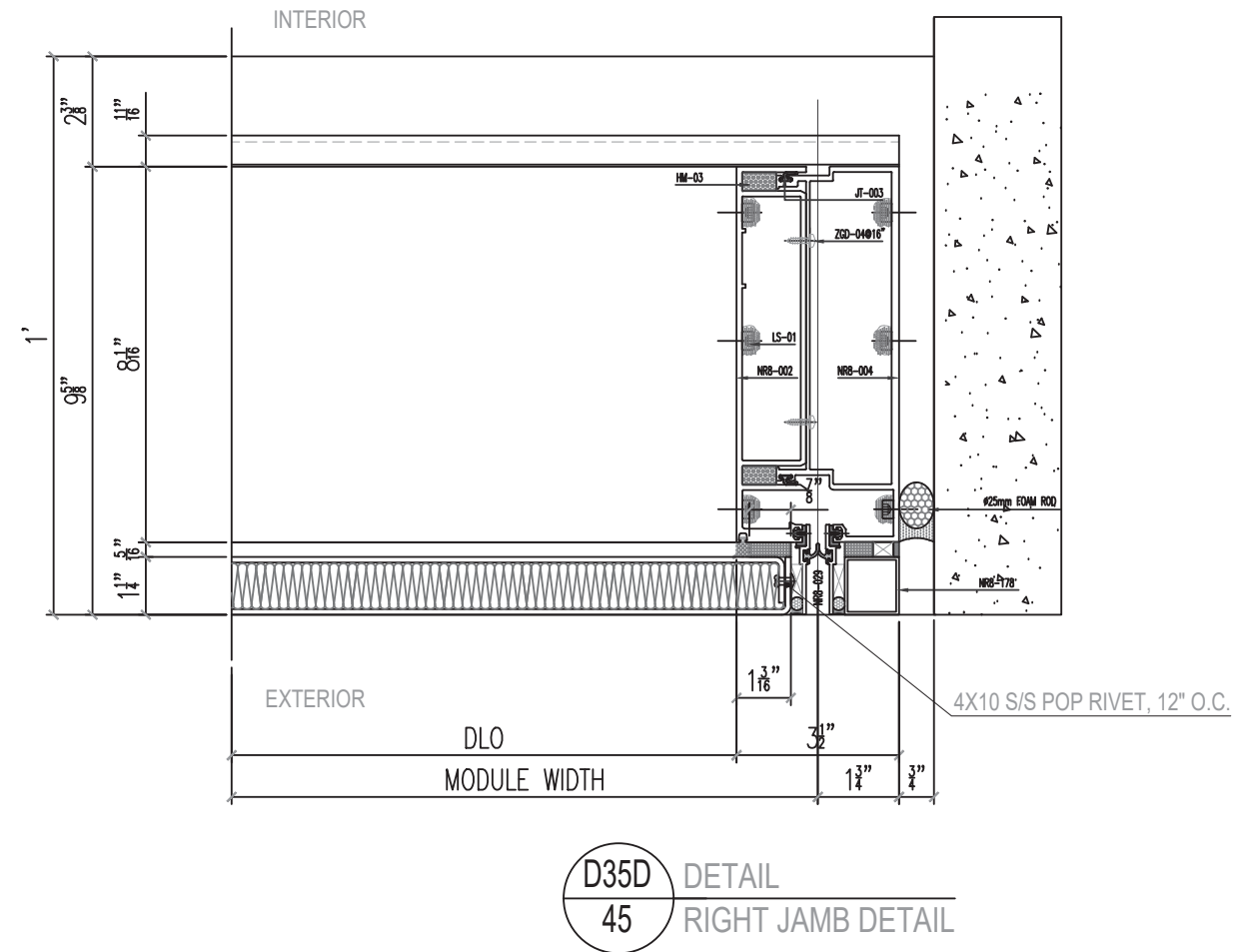
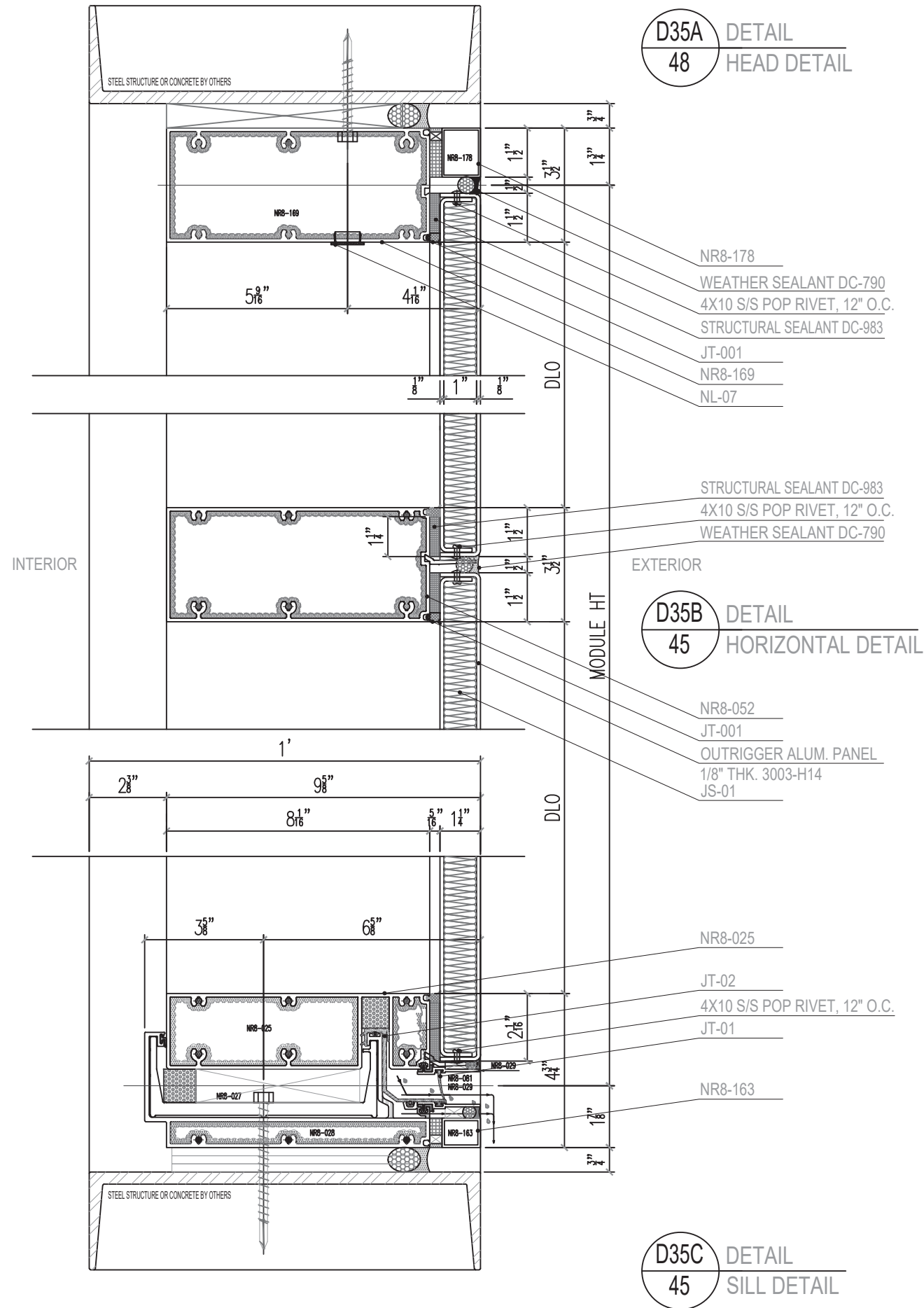


D34
D44 DETAIL OPTION
SILL DETAIL

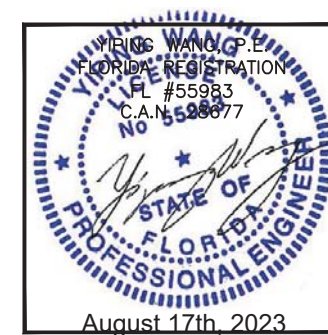
MAX. CAPACITIES	ANCHOR TYPE	
	3/8" DIA. PWB	
Rmax. (LB)	(2) /SIDE	(3) /SIDE
	1700	2550



REVISIONS NO. DATE DESCRIPTION R3 08.10.23 FBC 2023	
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SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.) N.R. ARCHITECTURAL PRODUCTS, INC. 4348 WESTROADS DRIVE WEST PALM BEACH, FL 33407 P: (561) 844 - 1121 F: (561) 844 - 6131	
FLORIDA APPROVAL: FL #20149.3 DATE 08.10.23 SCALE AS NOTED DRAWN James PROJECT MCY16-022 DRAWING NO. AD16-10 D34 SHEET 44	



NOTE:
1. ALUM. PANEL DETAIL, SEE SHEET 4A & 6C FOR
MAX. APPROVED SIZE AND DESIGN LOAD.
2. FOR ANCHOR OPTION REFER TO SHEET 40 TO 44.



SERIES 8000 HIGH PERFORMANCE UNITIZED CURTAIN WALL SYSTEM (S.M.I.)

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REVISIONS	
NO.	DATE
R3	08.10.23
DESCRIPTION	
FBC 2023	
M.C.Y.	
MCY ENGINEERING, INC.	
GLAZING CONSULTANTS	
8501 SW 124 AVE. STE. 205A P: 305.271.0117	
MIAMI, FL 33183 F: 305.568.5224	
www.MCYEngineering.com MCY@mcysengineering.com	

FLORIDA APPROVAL:	
FL #20149.3	
DATE	08.10.23
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY16-022
DRAWING NO.	
AD16-10	
D35	
SHEET 45	