

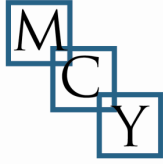


Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #	FL21033-R4																
Application Type	Revision																
Code Version	2023																
Application Status	Approved																
Comments																	
Archived	<input type="checkbox"/>																
Product Manufacturer	Sol-A-Trol Aluminum Products																
Address/Phone/Email	4101 NW 132 St Miami, FL 33054 (350) 681-2020 Ext 209 Edith@SOLATROL.COM																
Authorized Signature	Yiping Wang mcyengineering@outlook.com																
Technical Representative	Edith Todzey																
Address/Phone/Email	4101 NW 132nd St. Miami, FL 33054 (305) 681-2020 edith@solatrol.com																
Quality Assurance Representative																	
Address/Phone/Email																	
Category	Panel Walls																
Subcategory	Curtain Walls																
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received																
Florida Engineer or Architect Name who developed the Evaluation Report	Yiping Wang																
Florida License	PE-55983																
Quality Assurance Entity	National Accreditation and Management Institute																
Quality Assurance Contract Expiration Date	12/31/2026																
Validated By	Xiaojun Gu <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received																
Certificate of Independence	FL21033_R4_COI_Certificate of Independence FBC 2023.pdf																
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM E1886</td> <td>2019</td> </tr> <tr> <td>ASTM E1996</td> <td>2020</td> </tr> <tr> <td>ASTM E283</td> <td>2012</td> </tr> <tr> <td>ASTM E330</td> <td>2014</td> </tr> <tr> <td>ASTM E331</td> <td>2016</td> </tr> <tr> <td>ASTM F588</td> <td>2014</td> </tr> <tr> <td>TAS 201 & TAS 202 & TAS 203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	ASTM E1886	2019	ASTM E1996	2020	ASTM E283	2012	ASTM E330	2014	ASTM E331	2016	ASTM F588	2014	TAS 201 & TAS 202 & TAS 203	1994
Standard	Year																
ASTM E1886	2019																
ASTM E1996	2020																
ASTM E283	2012																
ASTM E330	2014																
ASTM E331	2016																
ASTM F588	2014																
TAS 201 & TAS 202 & TAS 203	1994																



PRODUCT APPROVAL EVALUATION REPORT

<p><u>Product Manufacturer:</u> Sol-A-Trol Aluminum Products 4101 NW 132nd Street Miami, FL 33054</p>	<p><u>Product Name/Model & Description:</u> Series 5000 Aluminum Window Wall System (L.M.I. & S.M.I.) Aluminum curtain wall system— large and small missile impact</p>
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Scope: This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

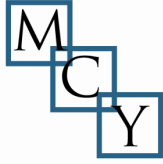
Product Description: Product Approval Drawing #AD16-26 prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large Missile Impact** (Large missile impact could qualify small missile impact)
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Other load limitations applicable to the product, if any.
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



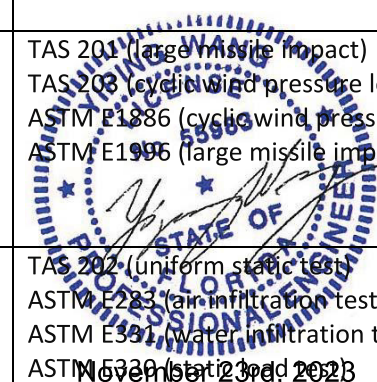
November 23rd, 2023

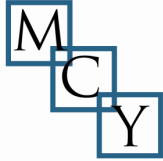


Test Reports:

Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

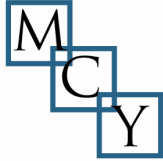
Test Lab	Report Number	Test Report Date	Test Standard & Description
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5065, signed and sealed by Rafael E. Droz- Seda, PE, FL #39228</i>	07/08/16	TAS 202 (uniform static test) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) ASTM E330 (static load test) ASTM F588 (forced entry test)
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5066, signed and sealed by Rafael Droz- Seda PE, FL #39228</i>	07/08/16	TAS 201 (large missile impact) TAS 203 (cyclic wind pressure loading) ASTM E1886 (cyclic wind pressure loading) ASTM E1996 (large missile impact)
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-T322, signed and sealed by Rafael Droz- Seda PE, FL #39228</i>	07/29/16	ASTM E 8 (tensile test)
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5095, signed and sealed by Rafael Droz- Seda PE, FL #39228</i>	10/19/16	TAS 201 (large missile impact) TAS 203 (cyclic wind pressure loading) ASTM E1886 (cyclic wind pressure loading) ASTM E1996 (large missile impact)
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5096, signed and sealed by Rafael Droz- Seda PE, FL #39228</i>	10/19/16	ASTM F588 (forced entry test) ASTM E330 (static load test) ASTM E331 (water infiltration test) ASTM E283 (air infiltration test)
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5097, signed and sealed by Rafael Droz- Seda PE, FL #39228</i>	09/30/16	TAS 201 (large missile impact) TAS 203 (cyclic wind pressure loading) ASTM E1886 (cyclic wind pressure loading) ASTM E1996 (large missile impact)
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5093, signed and sealed by Rafael Droz-</i>	10/19/16	TAS 202 (uniform static test) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) ASTM E330 (static load test)





	<i>Seda PE, FL #39228</i>		
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5103, signed and sealed by Rafael Droz- Seda PE, FL #39228</i>	10/19/16	TAS 201 (large missile impact) TAS 203 (cyclic wind pressure loading) ASTM E1886 (cyclic wind pressure loading) ASTM E1996 (large missile impact)
Hurricane Engineering & Testing, Inc. – Doral, FL	<i>HETI-16-5104, signed and sealed by Rafael Droz- Seda PE, FL #39228</i>	10/19/16	TAS 201 (large missile impact) TAS 203 (cyclic wind pressure loading) ASTM E1886 (cyclic wind pressure loading) ASTM E1996 (large missile impact)
Fenestration Testing Laboratory, Inc. – Medley, FL	<i>FTL-19-8816 signed and sealed by Idalmis Ortega PE, FL#76905</i>	06/17/19	TAS 201 (Large Missile Impact) TAS 202 (Uniform Structural Load) TAS 203 (Cyclic Wind Pressure Loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test)
Fenestration Testing Laboratory, Inc. – Medley, FL	<i>FTL-13029 signed and sealed by Idalmis Ortega PE, FL#76905</i>	11/29/2022	TAS 201 (Large Missile Impact) TAS 202 (Uniform Structural Load) TAS 203 (Cyclic Wind Pressure Loading)
Fenestration Testing Laboratory, Inc. – Medley, FL	<i>FTL-12573 signed and sealed by Idalmis Ortega PE, FL#76905</i>	06/22/2021	TAS 201 (Large Missile Impact) TAS 202 (Uniform Structural Load) TAS 203 (Cyclic Wind Pressure Loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test)
Fenestration Testing Laboratory, Inc. – Medley, FL	<i>FTL-12613 signed and sealed by Idalmis Ortega PE, FL#76905</i>	07/28/2021	TAS 201 (Large Missile Impact) TAS 202 (Uniform Structural Load) TAS 203 (Cyclic Wind Pressure Loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test)
Fenestration Testing Laboratory, Inc. – Medley, FL	<i>FTL-12840 signed and sealed by Idalmis Ortega PE, FL#76905</i>	11/30/2021	TAS 201 (Large Missile Impact) TAS 202 (Uniform Structural Load) TAS 203 (Cyclic Wind Pressure Loading)





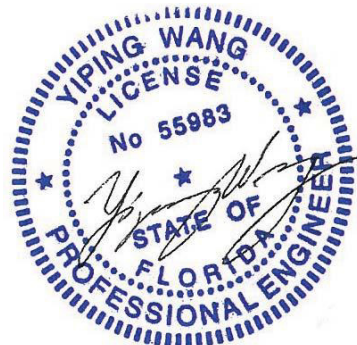
MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301
Miramar, FL. 33027
Mobile: (305) 588-5224
Office: (305) 271-0117

Fenestration Testing Laboratory, Inc. – Medley, FL	<i>FTL-12902 signed and sealed by Idalmis Ortega PE, FL#76905</i>	01/24/2022	TAS 201 (Large Missile Impact) TAS 202 (Uniform Structural Load) TAS 203 (Cyclic Wind Pressure Loading)
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Engineering Analysis: The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer’s published anchor capacity, anchor Notice of Acceptance by Miami Dade County.



November 23rd, 2023

SERIES 5000 ALUMINUM WINDOW WALL SYSTEM LARGE AND SMALL MISSILE IMPACT (LMI & SMI)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOW WALL RATED FOR LARGE AND SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.
- THIS WINDOW WALL IS APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY SOL-A-TROL ALUMINUM PRODUCTS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

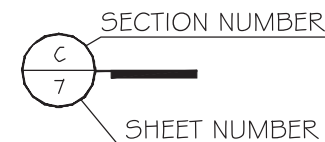
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2** SEE CHARTS ON SHEET G1 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION. GLASS TYPE SEE SHEET G2.
- STEP 3** CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1 THRU DM4. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEET A1 AND SHEET D1 TO SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

- D.L.O. - DAYLITE OPENING
- F.H. - FRAME HEIGHT
- F.W. - FRAME WIDTH
- O.C. - ON CENTER
- TEMP. - TEMPERED
- W/ - WITH
- W/O - WITHOUT
- WW - WINDOW WALL



LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

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

D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

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

FLORIDA APPROVAL:
FL #21033

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

SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)

SOL-A-TROL
aluminum products
4101 N.W. 132nd Street
Miami, Florida 33054
Phone: (305) 681-2020 Fax: (305) 681-2035

REV.	DATE	DESCRIPTION	DRAWN BY	DATE	RISK NO.
1	3-22-2021	A. J2 ADDED.	James	11.24.2023	R2

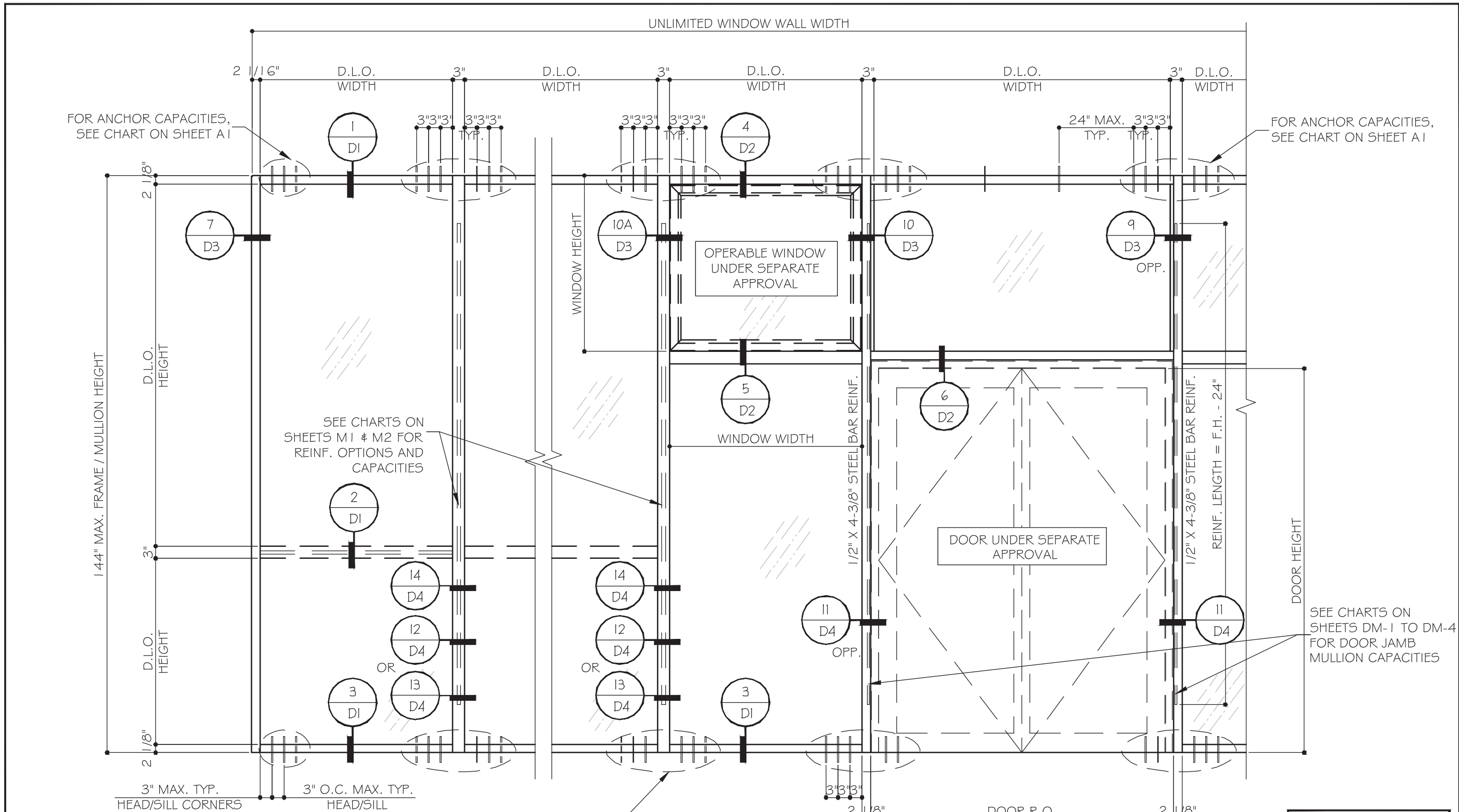
Drawn Date: 11/24/2023

Scale: AS SHOWN

DRAWING NO. AD16-26

COVER

Sheet No. 01 OF 19



TYPICAL EXTERIOR ELEVATION
 SEE CHARTS ON SHEETS M1 AND M2 FOR UNREINFORCED OR REINFORCED OPTIONS FOR TYPICAL MULLION AND JAMB

FLORIDA APPROVAL:
 FL #21033

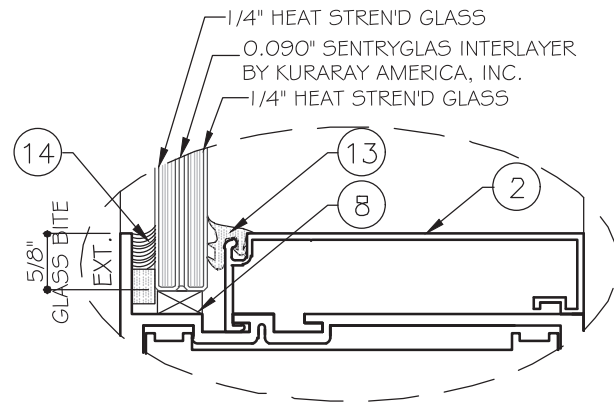
December 14th, 2023

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

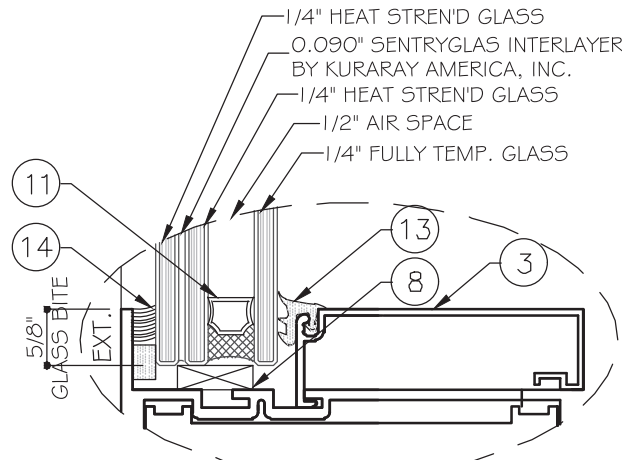
SOL-A-TROL
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 Phone: (305) 681-2020 Fax: (305) 681-2035

Drawn Date	Scale
11/24/2023	AS SHOWN
DRAWING NO.	
AD16-26	
E1	
Sheet No.	
02 OF 19	

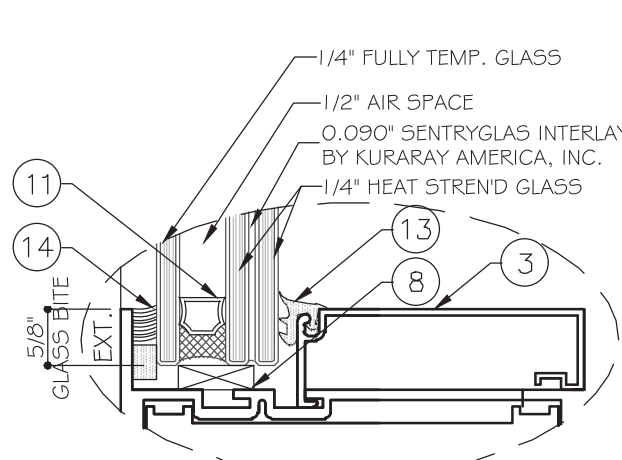
GLASS TYPE 'GL-1'
(9/16" NOMINAL OVERALL)



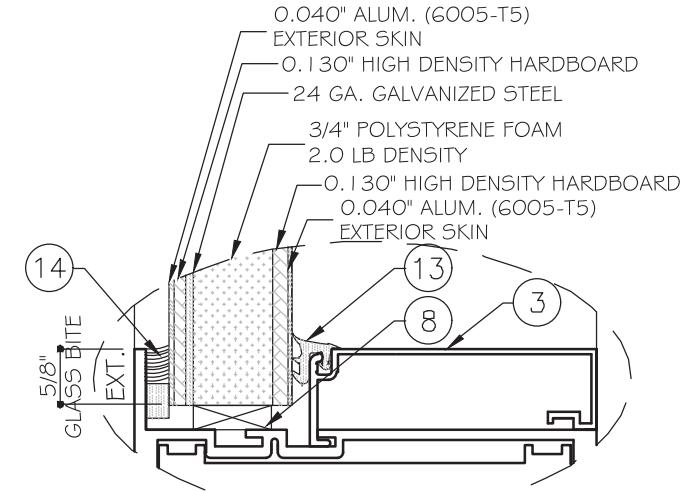
GLASS TYPE 'GL-1A'
(1-5/16" NOMINAL OVERALL)



GLASS TYPE 'GL-1B'
(1-5/16" NOMINAL OVERALL)



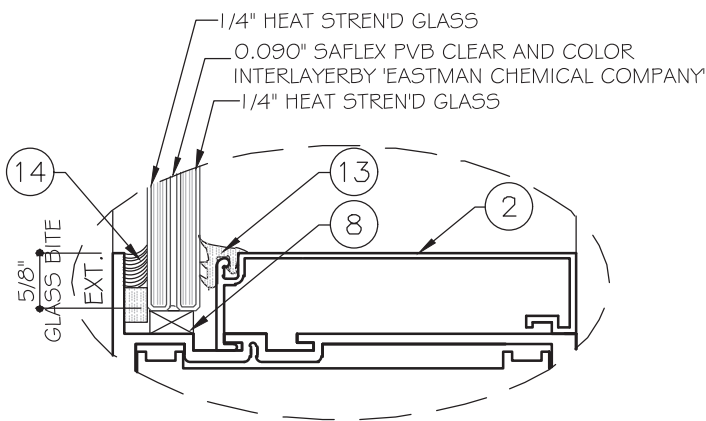
COMPOSITE INS. IMP. PANEL
(1-1/4" NOMINAL OVERALL)



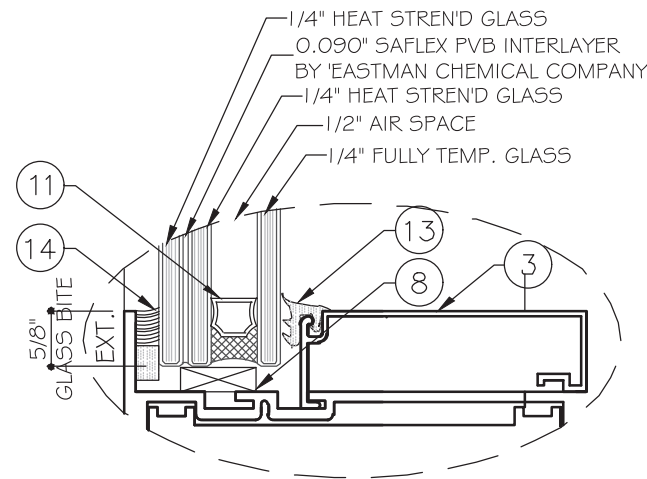
MAX. D.L.O. SIZE =
46-1/4" X 56-3/4" =
18.42 FT²

MAX. DESIGN LOAD:
+ 60 PSF
- 60 PSF

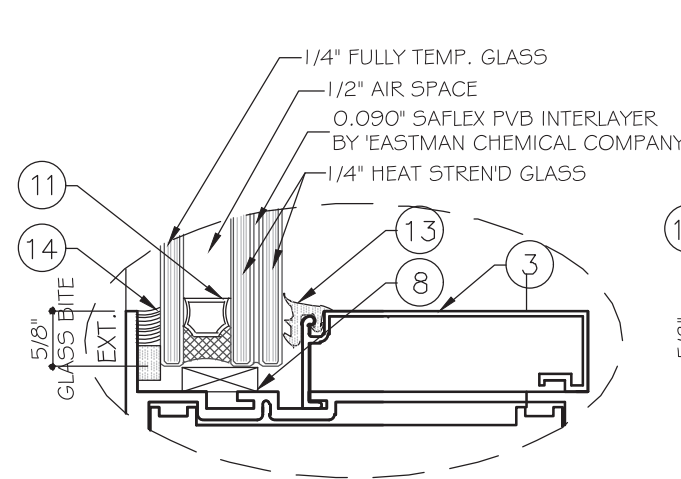
GLASS TYPE 'GL-2'
(9/16" NOMINAL OVERALL)



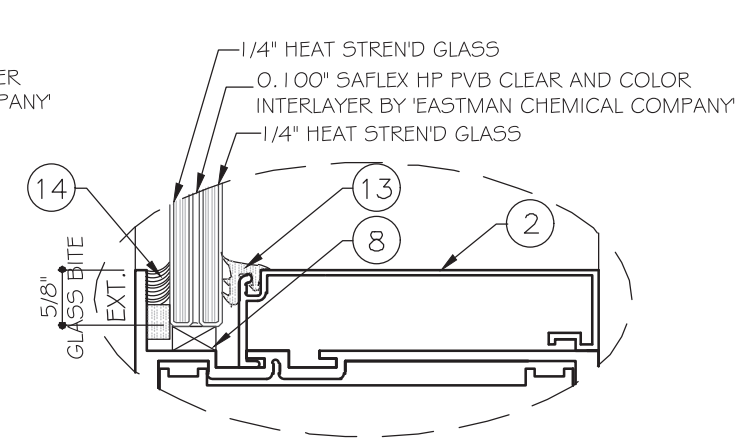
GLASS TYPE 'GL-2A'
(1-5/16" NOMINAL OVERALL)



GLASS TYPE 'GL-2B'
(1-5/16" NOMINAL OVERALL)



GLASS TYPE 'GL-4'
(9/16" NOMINAL OVERALL)



NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS).

FLORIDA APPROVAL:
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December 14th, 2023

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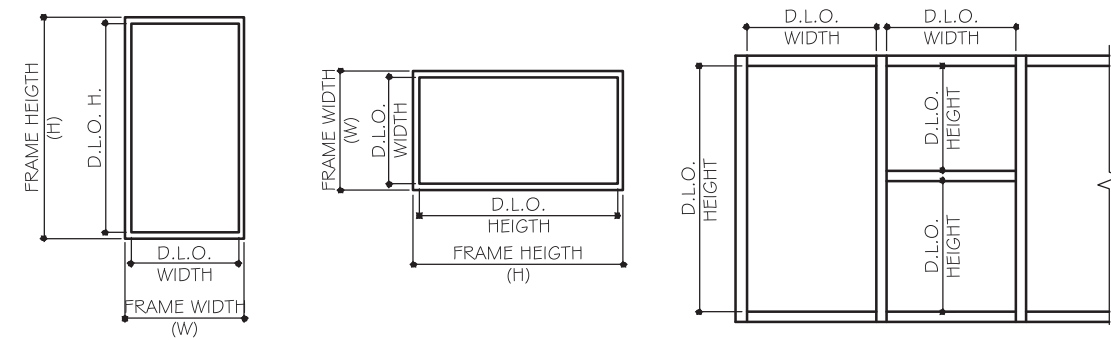
Drawn Date	Scale
11/24/2023	AS SHOWN
DRAWING NO.	
AD16-26	
G1	
Sheet No.	
03 OF 19	

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMENSIONS		GLASS 'GL-1'
D.L.O. HEIGHT (IN)	D.L.O. WIDTH (IN)	EXT. (+) INT. (-)
78	48	90.0
	54	90.0
	60	90.0
	66	90.0
	72	90.0
84	48	90.0
	54	90.0
	60	90.0
	66	90.0
	72	90.0
90	48	90.0
	54	90.0
	60	90.0
	66	90.0
	72	90.0
96	48	90.0
	54	90.0
	60	90.0
	66	90.0
	72	90.0
102	48	90.0
	54	90.0
	60	90.0
	66	90.0
	70	90.0
108	48	90.0
	54	90.0
	60	90.0
	66	90.0
114	48	90.0
	54	90.0
	60	90.0
	63	90.0
120	48	90.0
	54	90.0
	60	90.0
126	36	90.0
	42	90.0
	48	90.0
	54	90.0
132	36	90.0
	42	90.0
	48	90.0
	54	90.0
138	36	90.0
	42	90.0
	48	90.0
	51	90.0
144	36	90.0
	42	90.0
	48	90.0
	50	90.0

GLASS LOAD CAPACITY - PSF				
NOMINAL DIMENSIONS		GLASS 'GL-1A'	GLASS 'GL-1B'	GLASS 'GL-4'
D.L.O. HEIGHT (IN)	D.L.O. WIDTH (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72	36	120.0	110.0	90.0
	39	120.0	110.0	90.0
	42	120.0	110.0	90.0
	45	120.0	110.0	90.0
	48	120.0	110.0	90.0
78	36	120.0	110.0	90.0
	39	120.0	110.0	90.0
	42	120.0	110.0	90.0
	45	120.0	110.0	90.0
	48	-	-	90.0
84	33	120.0	110.0	90.0
	36	120.0	110.0	90.0
	39	120.0	110.0	90.0
	42	120.0	110.0	90.0
	45	-	-	90.0
90	30	120.0	110.0	90.0
	33	120.0	110.0	90.0
	36	120.0	110.0	90.0
	39	120.0	110.0	90.0
	42	-	-	90.0
96	30	120.0	110.0	90.0
	33	120.0	110.0	90.0
	36	120.0	110.0	90.0
	39	-	-	90.0
102	30	120.0	110.0	90.0
	33	120.0	110.0	90.0
	36	-	-	90.0
108	30	120.0	110.0	90.0
	33	-	-	90.0

GLASS LOAD CAPACITY - PSF				
NOMINAL DIMENSIONS		GLASS 'GL-2'	GLASS 'GL-2A'	GLASS 'GL-2B'
D.L.O. HEIGHT (IN)	D.L.O. WIDTH (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
72	33	90.0	80.0	80.0
	36	90.0	80.0	80.0
	39	80.0	80.0	80.0
	42	80.0	80.0	80.0
	45	80.0	80.0	80.0
	48	80.0	80.0	80.0
78	51	60.0	-	80.0
	54	60.0	-	60.0
	33	90.0	80.0	80.0
	36	80.0	80.0	80.0
	39	80.0	80.0	80.0
	42	80.0	80.0	80.0
84	45	80.0	80.0	80.0
	48	60.0	-	60.0
	51	60.0	-	-
	33	90.0	80.0	80.0
	36	80.0	80.0	80.0
	39	80.0	80.0	80.0
90	42	80.0	80.0	80.0
	45	60.0	-	60.0
	48	60.0	-	-
	30	90.0	80.0	80.0
	33	80.0	80.0	80.0
	36	80.0	80.0	80.0
96	39	80.0	80.0	80.0
	42	60.0	-	60.0
	45	60.0	-	-
	30	90.0	80.0	80.0
	33	80.0	80.0	80.0
	36	80.0	80.0	80.0
102	39	80.0	80.0	80.0
	42	60.0	-	60.0
	45	60.0	-	-
108	33	80.0	80.0	80.0
	36	80.0	80.0	80.0
	39	60.0	-	60.0
126	30	80.0	80.0	80.0
	33	60.0	-	80.0
	36	60.0	-	-
132	30	80.0	80.0	80.0
	33	60.0	-	80.0
	36	60.0	-	-

- NOTES:
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
 - WIDTH AND HEIGHT DIMS. CAN BE ORIENTED VERTICAL OR HORIZONTALLY AS SHOWN BELOW



FLORIDA APPROVAL:
FL #21033

YIPING WANG
FLORIDA REGISTRATION
LICENSE #55883
C.A.N. 28877

STATE OF FLORIDA
PROFESSIONAL ENGINEER

December 14th, 2023

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

SOL-A-TROL
aluminum products
4101 N.W. 132nd Street
Miami, Florida 33054
Phone: (305) 681-2020 Fax: (305) 681-2035

SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)

Drawn By	James	Date	11/24/2023	Description	FBC 2023
Rev. No.	R2				

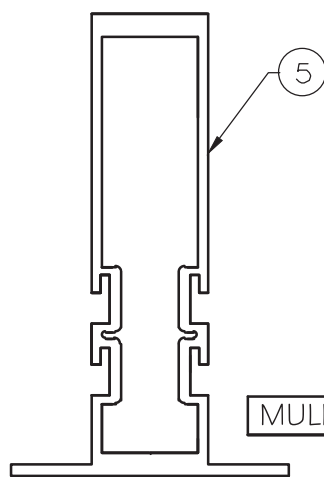
Drawn Date: 11/24/2023 Scale: AS SHOWN

DRAWING NO. AD16-26

G2

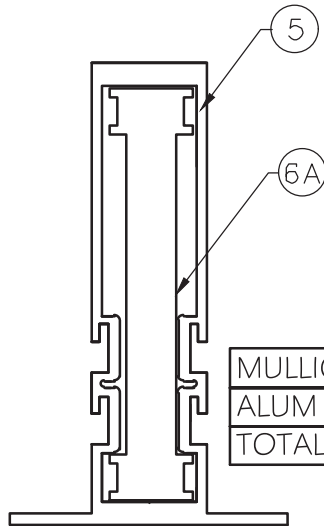
Sheet No. 03A OF 19

TYPICAL MULLION



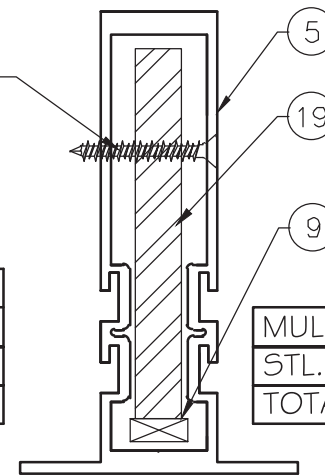
	Ix IN^4	Sx IN^3
MULLION	6.6957	2.364

MULLION (M1)



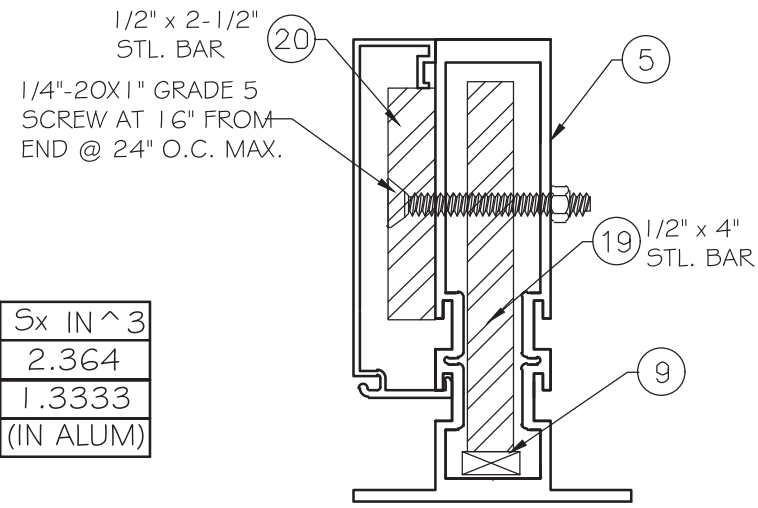
	Ix IN^4	Sx IN^3
MULLION	6.6957	2.364
ALUM REINF.	4.9334	2.2148
TOTAL	11.6291	

MULLION (M2)
ALUM. REINFORCED



	Ix IN^4	Sx IN^3
MULLION	6.6957	2.364
STL. REINF.	2.6667	1.3333
TOTAL	14.4290	(IN ALUM)

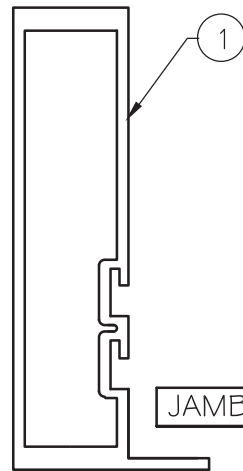
MULLION (M3)
STEEL REINFORCED



	Ix IN^4	Sx IN^3
MULLION	6.6957	2.364
STL. REINF.	2.6667	1.3333
	0.6510	0.3255
TOTAL	16.3171	(IN ALUM)

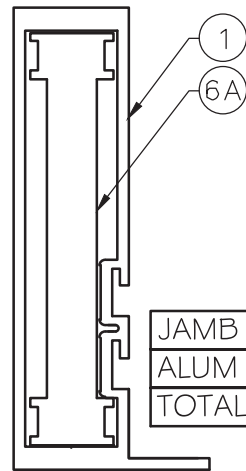
MULLION (M4)
STEEL REINFORCED

TYPICAL MULLION SUPPORT SINGLE DOOR



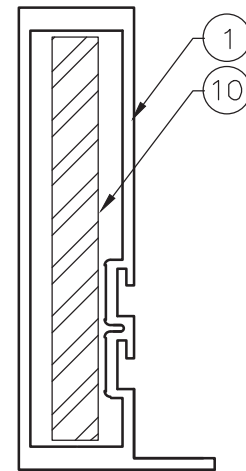
	Ix IN^4	Sx IN^3
JAMB	6.1186	2.2803

MULLION (M1)



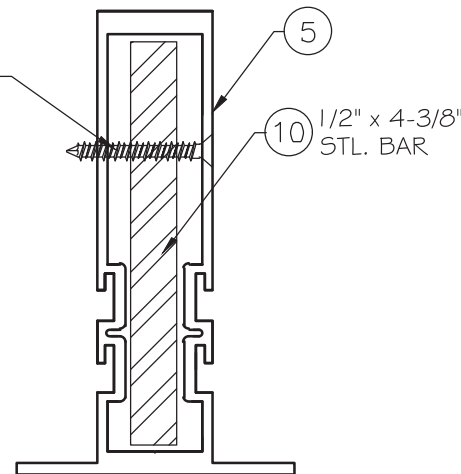
	Ix IN^4	Sx IN^3
JAMB	6.1186	2.2803
ALUM REINF.	4.9334	2.2148
TOTAL	11.0520	

MULLION (M2)
ALUM. REINFORCED



	Ix IN^4	Sx IN^3
JAMB	6.1186	2.2803
STL. REINF.	3.4892	1.5951
TOTAL	16.2372	(IN ALUM)

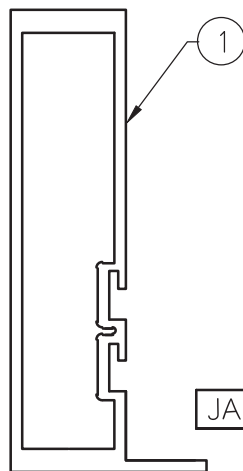
MULLION (M5)
STEEL REINFORCED



	Ix IN^4	Sx IN^3
MULLION	6.6957	2.364
STL. REINF.	3.4892	1.5951
TOTAL	16.8143	(IN ALUM)

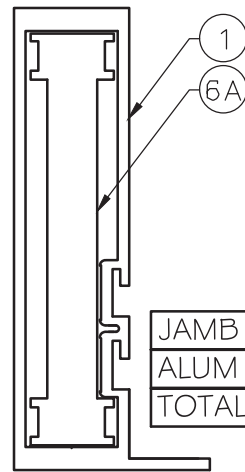
MULLION (M5)
STEEL REINFORCED

TYPICAL JAMB



	Ix IN^4	Sx IN^3
JAMB	6.1186	2.2803

JAMB (J1)



	Ix IN^4	Sx
JAMB	6.1186	2.2803
ALUM REINF.	4.9334	2.2148
TOTAL	11.0520	

JAMB (J2)
ALUM. REINFORCED

MCY
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 4101 N.W. 132nd Street
 Miami, Florida 33054
 Phone: (305) 681-2020 Fax: (305) 681-2035

Rev. No.	Date	Drawn By	Description
1	11/24/2023	James	FBC 2023
2			

Drawn Date: 11/24/2023 Scale: AS SHOWN
 DRAWING NO. AD16-26
 Sheet No. 04 OF 19

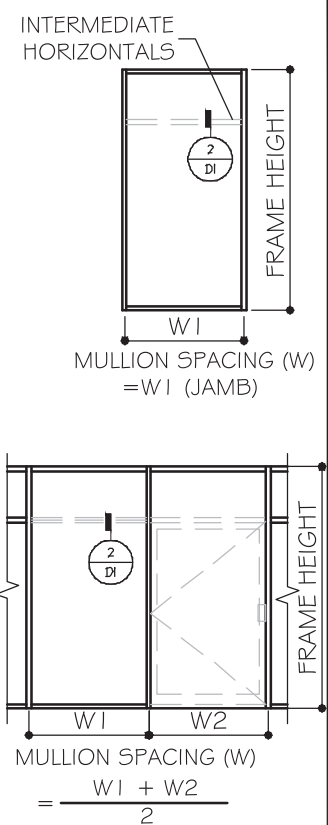
FLORIDA APPROVAL:
 FL #21033

YIPING WANG
 PROFESSIONAL ENGINEER
 LICENSE #55883
 C.A.N. 28877

December 14th, 2023

JAMB / MULLION LOAD CAPACITY - PSF WITH AND WITHOUT INTERMEDIATE HORIZONTALS								
NOMINAL DIMENSIONS (IN.)		MULL 'M1'	MULL 'M2'	MULL 'M3'	MULL 'M4'	MULL 'M5'	JAMB 'J1'	JAMB 'J2'
FRAME HEIGHT	MULLION SPACING (W)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)
60	42	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	48	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	54	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	60	75.0/80.0	90.0/119.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
66	42	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	48	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	54	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
72	42	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	48	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	54	75.0/80.0	90.0/110.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/110.0	90.0/110.0
78	42	75.0/80.0	90.0/120.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/120.0	90.0/120.0
	48	75.0/80.0	90.0/112.0	80.0/90.0	80.0/90.0	80.0/110.0	90.0/112.0	90.0/112.0
	54	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/110.0	80.0/110.0	80.0/110.0
	60	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/110.0	80.0/110.0	80.0/110.0
	66	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	72	50.0/60.0	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	78	-	60.0	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
	84	-	60.0	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
84	54	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/110.0	80.0/110.0	80.0/110.0
	60	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	66	50.0/60.0	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	72	-	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	78	-	60.0	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
	84	-	-	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
	87	-	-	80.0/90.0	80.0/90.0	-	-	80.0/90.0
	90	54	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
60		50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
66		-	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
72		-	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
78		-	-	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
84		-	-	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
87		-	-	80.0/87.8	80.0/90.0	-	-	80.0/90.0
96		48	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/110.0	80.0/110.0
	54	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	60	50.0/60.0	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	66	-	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	72	-	-	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	78	-	-	80.0/86.1	80.0/90.0	-	80.0/90.0	80.0/90.0
	84	-	-	80.0	80.0/90.0	-	80.0/90.0	80.0/90.0
	87	-	-	77.2	80.0/87.3	-	-	80.0/90.0
102	48	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	54	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	60	-	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	66	-	-	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	72	-	-	80.0/82.6	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	78	-	-	76.3	80.0/86.3	-	80.0/86.0	80.0/90.0
	84	-	-	70.8	80.0/80.1	-	80.0/80.0	80.0/90.0
	87	-	-	68.4	77.3	-	-	80.0/90.0

JAMB / MULLION LOAD CAPACITY - PSF WITH AND WITHOUT INTERMEDIATE HORIZONTALS								
NOMINAL DIMENSIONS (IN.)		MULL 'M1'	MULL 'M2'	MULL 'M3'	MULL 'M4'	MULL 'M5'	JAMB 'J1'	JAMB 'J2'
FRAME HEIGHT	MULLION SPACING (W)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)	EXT./INT. (+/-)
108	48	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	51	50.0/53.9	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	54	-	60.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	60	-	60.0	80.0/88.5	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	66	-	-	80.0/80.4	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	72	-	-	73.7	80.0/83.4	80.0/90.0	80.0/83.0	80.0/90.0
	78	-	-	68.0	76.9	-	77.0	80.0/89.0
	84	-	-	63.2	71.5	-	71.0	80.0/83.0
	87	-	-	61.0	68.6	-	-	80.0
114	42	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/110.0	80.0/90.0	80.0/90.0
	48	50.0/60.0	76.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	54	-	60.0	80.0/88.2	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	60	-	-	79.4	80.0/89.8	80.0/90.0	80.0/85.0	80.0/90.0
	66	-	-	72.2	80.0/81.6	80.0/90.0	77.0	80.0/90.0
	72	-	-	66.2	74.8	-	70.0	80.0/87.0
	78	-	-	61.1	69.1	-	65.0	80.0
	120	36	50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/110.0	80.0/110.0
39		50.0/60.0	80.0	80.0/90.0	80.0/90.0	80.0/110.0	80.0/110.0	80.0/90.0
42		50.0/60.0	79.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
48		50.0/53.0	60.0	80.0/89.6	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
54		-	60.0	79.6	80.0/90.0	80.0/90.0	80.0/81.0	80.0/90.0
60		-	-	71.6	80.0/81.0	80.0/90.0	73.0	80.0/90.0
66		-	-	65.1	73.7	80.0/89.0	66.0	80.0/85.0
72		-	-	59.7	67.5	-	60.0	78.0
78	-	-	55.1	62.3	-	56.0	72.0	
126	36	50.0/59.0	80.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/90.0
	42	50.0/51.0	71.0	80.0/90.0	80.0/90.0	80.0/90.0	80.0/89.0	80.0/90.0
	48	-	60.0	80.0/81.2	80.0/90.0	80.0/90.0	78.0	80.0/90.0
	54	-	-	72.2	80.0/81.7	80.0/90.0	70.0	80.0/90.0
	60	-	-	65.0	73.5	80.0/90.0	63.0	80.0/90.0
	66	-	-	59.1	66.8	-	57.0	77.0
	72	-	-	54.2	61.2	-	52.0	71.0
132	30	50.0/60.0	80.0	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
	36	50.0/51.0	76.0	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
	42	44.0	60.0	80.0/84.6	80.0/90.0	-	78.0	80.0/90.0
	48	-	60.0	74.0	80.0/83.7	-	68.0	80.0/90.0
	54	-	-	65.8	74.4	-	61.0	80.0/86.0
	60	-	-	59.2	67.0	-	54.0	78.0
	66	-	-	53.8	60.9	-	50.0	71.0
138	30	50.0/53.0	80.0	80.0/90.0	80.0/90.0	-	80.0/90.0	80.0/90.0
	36	45.0	69.0	80.0/90.0	80.0/90.0	-	79.0	80.0/90.0
	42	39.0	60.0	77.4	80.0/87.5	-	68.0	80.0/90.0
	48	-	57.0	67.7	76.6	-	60.0	80.0/89.0
	54	-	-	60.2	68.1	-	53.0	79.0
	60	-	-	54.2	61.3	-	48.0	71.0
144	30	47.0	77.0	80.0/90.0	80.0/90.0	-	80.0/84.0	80.0/90.0
	36	39.0	64.0	52.5	80.0/90.0	-	70.0	80.0/90.0
	42	-	59.0	70.7	79.9	-	60.0	80.0/90.0
	48	-	-	61.9	69.9	-	52.0	80.0/82.0
	54	-	-	55.0	62.2	-	47.0	73.0
	60	-	-	49.5	56.0	-	42.0	65.0



FLORIDA APPROVAL:
FL #21033



December 14th, 2023

MCY ENGINEERING, INC.
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3-22-2023	A	J2 ADDED					
11/24/2023	James	Drawn By	FBC 2023	Description			
	R2	Date					

Drawn Date: 11/24/2023 Scale: AS SHOWN

DRAWING NO. AD16-26

M2

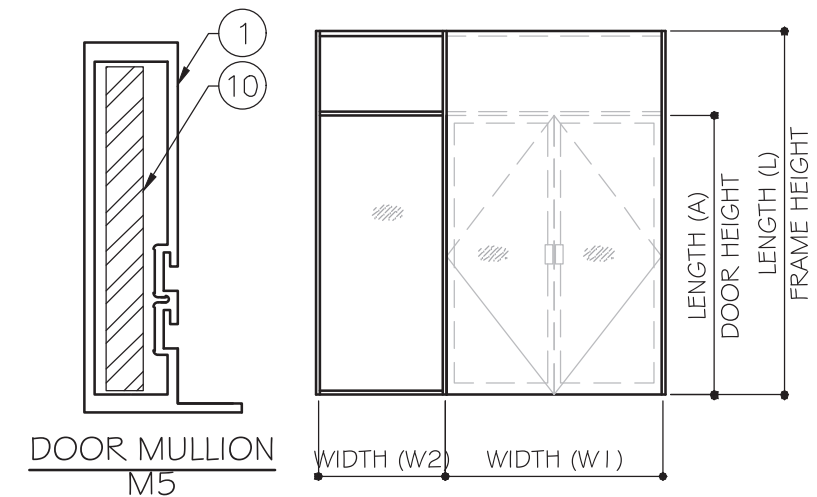
Sheet No. 05 OF 19

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMENSIONS (IN.)				EXT. (+) INT. (-)
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	
60	30	84	120	60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
66	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
72	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
78	30	60.0		
	36	60.0		
	42	60.0		
	48	60.0		
	54	60.0		
	60	59.0		
60	30	90	120	60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
66	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
72	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
78	30	60.0		
	36	60.0		
	42	60.0		
	48	60.0		
	54	60.0		
	60	59.0		

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMENSIONS (IN.)				EXT. (+) INT. (-)
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	
60	30	96	120	60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
66	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
72	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
78	30	60.0		
	36	60.0		
	42	60.0		
	48	60.0		
	54	60.0		
	60	58.0		
60	30	84	126	60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
66	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
72	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
78	30	60.0		
	36	60.0		
	42	60.0		
	48	60.0		
	54	59.0		
	60	56.0		

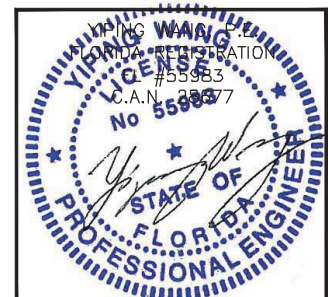
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMENSIONS (IN.)				EXT. (+) INT. (-)
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	
60	30	90	126	60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
66	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
72	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			59.0
78	30	60.0		
	36	60.0		
	42	60.0		
	48	60.0		
	54	60.0		
	60	57.0		
60	30	96	126	60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
66	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
72	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
78	30	60.0		
	36	60.0		
	42	60.0		
	48	60.0		
	54	60.0		
	60	58.0		

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMENSIONS (IN.)				EXT. (+) INT. (-)
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	
60	30	102	126	60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
66	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			60.0
72	30			60.0
	36			60.0
	42			60.0
	48			60.0
	54			60.0
	60			58.0
78	30	60.0		
	36	60.0		
	42	60.0		
	48	60.0		
	54	60.0		
	60	55.0		



	Ix IN ⁴	Sx IN ³
JAMB	6.1186	2.2803
STL. REINF.	3.4992	1.5951
TOTAL	16.2372	(IN ALUM)

FLORIDA APPROVAL:
FL #21033



December 14th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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MIRAMAR, FL 33027 P. 305.271.0117
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SOL-A-TROL
aluminum products
4101 N.W. 132nd Street
Miami, Florida 33054
Phone: (305) 681-2020 Fax: (305) 681-2035

SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)

Drawn Date	Scale
11/24/2023	AS SHOWN

DRAWING NO. AD16-26

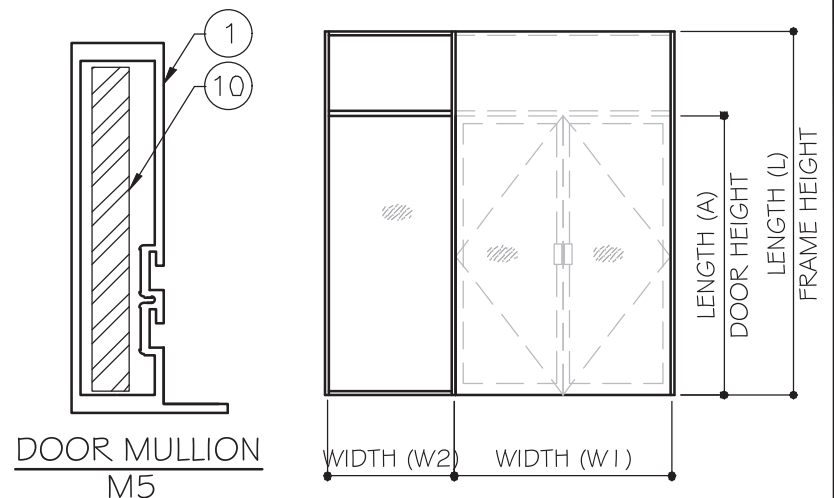
DM1

Sheet No. 06 OF 19

DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMENSIONS (IN.)				EXT. (+) INT. (-)	
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)		
60	30	84	138	60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			59.0	
	60			56.0	
66	30			60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			57.0	
	60			54.0	
72	30			60.0	
	36			60.0	
	42			60.0	
	48			58.0	
	54			55.0	
	60			60.0	
78	30	60.0			
	36	60.0			
	42	60.0			
	48	56.0			
	60	30	90	138	60.0
		36			60.0
42		60.0			
48		60.0			
54		60.0			
60		57.0			
66	30	60.0			
	36	60.0			
	42	60.0			
	48	60.0			
	54	60.0			
	60	54.0			
72	30	60.0			
	36	60.0			
	42	60.0			
	48	59.0			
	54	56.0			
	60	60.0			
78	30	60.0			
	36	60.0			
	42	60.0			
	48	57.0			

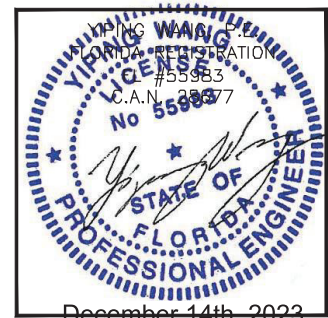
DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMENSIONS (IN.)				EXT. (+) INT. (-)	
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)		
60	30	96	138	60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			60.0	
	60			57.0	
66	30			60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			60.0	
	60			59.0	
72	30			60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			60.0	
	60			60.0	
78	30	60.0			
	36	60.0			
	42	60.0			
	48	58.0			
	60	30	102	138	60.0
		36			60.0
42		60.0			
48		60.0			
54		60.0			
60		58.0			
66	30	60.0			
	36	60.0			
	42	60.0			
	48	60.0			
	54	60.0			
	60	56.0			
72	30	60.0			
	36	60.0			
	42	60.0			
	48	60.0			
	54	56.0			
	60	60.0			
78	30	60.0			
	36	60.0			
	42	60.0			
	48	57.0			

DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMENSIONS (IN.)				EXT. (+) INT. (-)	
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)		
60	30	108	138	60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			60.0	
	60			58.0	
66	30			60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			60.0	
	60			60.0	
72	30			60.0	
	36			60.0	
	42			60.0	
	48			60.0	
	54			60.0	
	60			55.0	
78	30	60.0			
	36	60.0			
	42	60.0			
	48	56.0			
	60	30	114	138	60.0
		36			60.0
42		60.0			
48		60.0			
54		60.0			
60		57.0			
66	30	60.0			
	36	60.0			
	42	60.0			
	48	60.0			
	54	60.0			
	60	57.0			
72	30	60.0			
	36	60.0			
	42	60.0			
	48	58.0			
	54	55.0			
	60	60.0			
78	30	60.0			
	36	60.0			
	42	58.0			
	48	55.0			



	I_x IN ⁴	S_x IN ³
JAMB	6.1186	2.2803
STL. REINF.	3.4992	1.5951
TOTAL	16.2372	(IN ALUM)

FLORIDA APPROVAL:
FL #21033

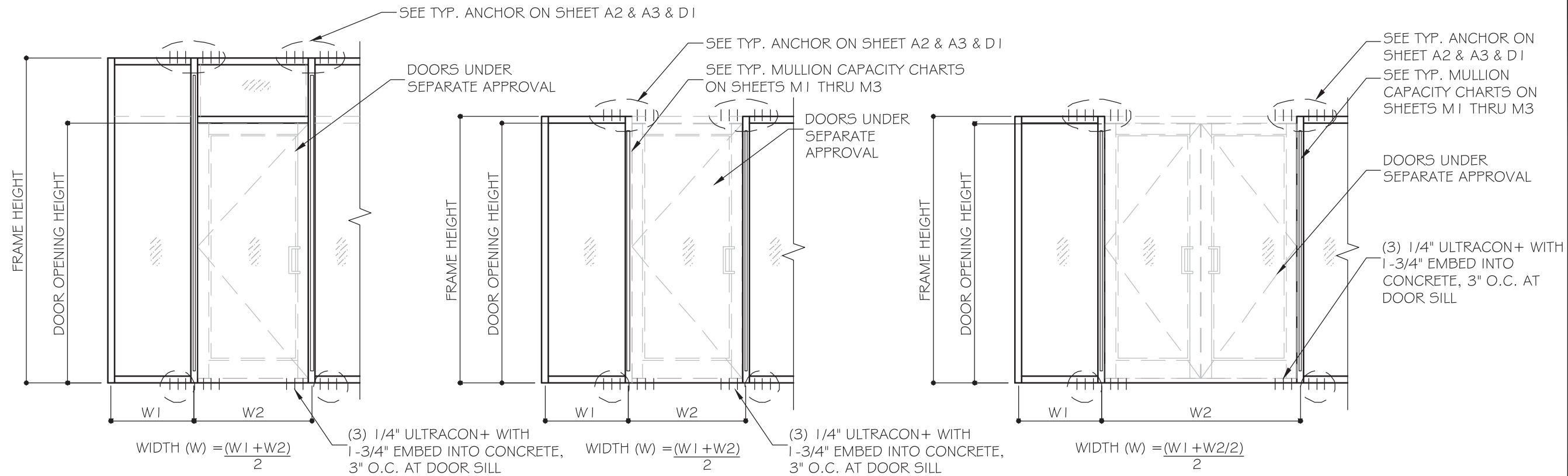


December 14th, 2023

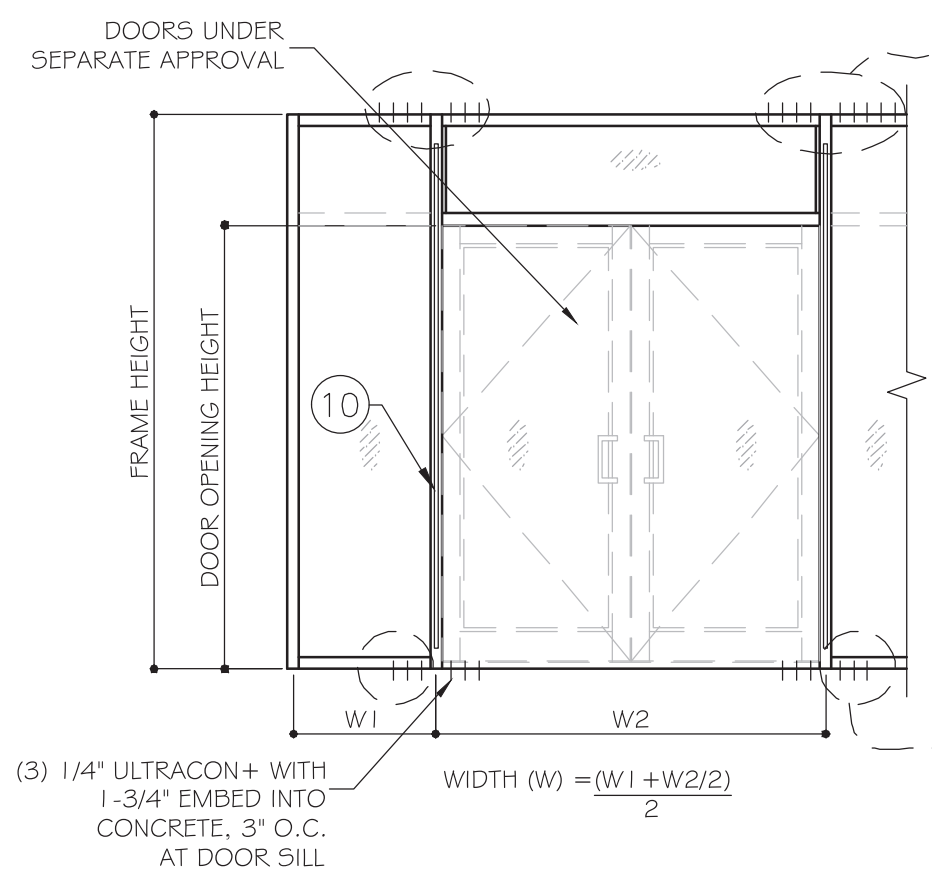
MCY ENGINEERING, INC.
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Phone: (305) 681-2020 Fax: (305) 681-2035

Drawn Date	Scale
11/24/2023	AS SHOWN
Drawn By	Description
James	FBC 2023
Date	
11/24/2023	
Rev. No.	
R2	
DRAWING NO.	
AD16-26	
DM3	
Sheet No.	
08 OF 19	



SEE SEPARATE FLORIDA APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.
 LOWER VALUES FROM DOORS FLORIDA APPROVAL OR WINDOW WALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.



ANCHOR AT DOOR JAMB MULLION HEAD		
ANCHOR TYPE	MAX. SHIM	ANCHOR AT EA. SIDE OF DJM
AA & A & C	3/8"	4
A	1/4"	3
B	1/2"	3

FOR DOOR JAMB MULLION WITH STEEL REINFORCEMENT, SEE CAPACITIES ON SHEETS DM-1 THRU DM-4.

ANCHOR AT DOOR JAMB MULLION SILL		
ANCHOR TYPE	SHIM SPACE	ANCHOR AT WW SIDE
A	1/4"	3
A	3/8"	3
B	1/2"	3

FLORIDA APPROVAL:
 FL #21033

December 14th, 2023

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SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)

Drawn Date	Scale
11/24/2023	AS SHOWN

DRAWING NO. AD16-26

Sheet No. 10 OF 19

ANCHOR LOAD CAPACITY-PSF EXT.(+) & INT.(-)															
NOMINAL DIMENSIONS (IN.)		ANCHOR TYPES													
		1/4" SHIM				3/8" SHIM						1/2" SHIM			
FRAME HEIGHT	MULLION WIDTH	A4	A6	C4	C6	A4 & AA4	A6 & AA6	A8 & AA8	B4	B6	C4	C6	C8	B4	B6
84	36	120	120	120	120	82	120	120	120	120	97	120	120	120	120
	39	120	120	120	120	76	114	120	120	120	90	120	120	120	120
	42	120	120	120	120	71	106	120	120	120	83	120	120	120	120
	45	119	120	120	120	66	99	120	120	120	78	116	120	120	120
	48	111	120	120	120	62	93	120	120	120	73	109	120	113	120
	51	105	120	120	120	58	87	116	120	120	69	103	120	106	120
	54	99	120	116	120	55	82	110	120	120	65	97	120	100	120
	57	94	120	110	120	52	78	104	116	120	61	92	120	95	120
	60	89	120	105	120	49	74	99	111	120	58	87	116	90	120
	63	85	120	100	120	47	71	94	105	120	55	83	111	86	120
	66	81	120	95	120	45	67	90	101	120	53	79	106	82	120
	69	78	116	91	120	43	64	86	96	120	51	76	101	78	117
	72	74	111	87	120	41	62	82	92	120	49	73	97	75	113
	75	71	107	84	120	39	59	79	89	120	47	70	93	72	108
	78	69	103	81	120	38	57	76	85	120	45	67	90	69	104
	81	66	99	78	116	37	55	73	82	120	43	65	86	67	100
84	64	96	75	112	35	53	71	79	119	42	62	83	64	96	
87	61	92	72	108	34	51	68	76	114	40	60	80	62	93	
90	36	120	120	120	120	77	115	120	120	120	91	120	120	120	120
	39	120	120	120	120	71	106	120	120	120	84	120	120	120	120
	42	119	120	120	120	66	99	120	120	120	78	116	120	120	120
	45	111	120	120	120	61	92	120	120	120	72	109	120	112	120
	48	104	120	120	120	58	86	115	120	120	68	102	120	105	120
	51	98	120	115	120	54	81	108	120	120	64	96	120	99	120
	54	92	120	109	120	51	77	102	115	120	60	91	120	93	120
	57	88	120	103	120	49	73	97	109	120	57	86	114	88	120
	60	83	120	98	120	46	69	92	103	120	54	82	109	84	120
	63	79	119	93	120	44	66	88	98	120	52	78	104	80	120
	66	76	113	89	120	42	63	84	94	120	49	74	99	76	115
	69	72	109	85	120	40	60	80	90	120	47	71	95	73	110
	72	69	104	81	120	38	58	77	86	120	45	68	91	70	105
	75	67	100	78	117	37	55	74	83	120	43	65	87	67	101
	78	64	96	75	113	35	53	71	79	119	42	63	84	65	97
	81	62	92	72	109	34	51	68	76	115	40	60	81	62	93
84	59	89	70	105	33	49	66	74	111	39	58	78	60	90	
87	57	86	67	101	32	48	64	71	107	37	56	75	58	87	
96	36	120	120	120	120	72	108	120	120	120	85	120	120	120	120
	39	120	120	120	120	66	100	120	120	120	78	118	120	120	120
	42	111	120	120	120	62	93	120	120	120	73	109	120	113	120
	45	104	120	120	120	58	86	115	120	120	68	102	120	105	120
	48	98	120	114	120	54	81	108	120	120	64	96	120	99	120
	51	92	120	108	120	51	76	102	114	120	60	90	120	93	120
	54	87	120	102	120	48	72	96	108	120	57	85	113	88	120
	57	82	120	96	120	45	68	91	102	120	54	80	107	83	120
	60	78	117	92	120	43	65	86	97	120	51	76	102	79	118
	63	74	111	87	120	41	62	82	92	120	49	73	97	75	113
	66	71	106	83	120	39	59	79	88	120	46	69	93	72	107
	69	68	102	80	119	38	56	75	84	120	44	66	89	69	103
	72	65	98	76	114	36	54	72	81	120	42	64	85	66	98
	75	62	94	73	110	35	52	69	77	116	41	61	82	63	95
	78	60	90	70	106	33	50	66	74	112	39	59	78	61	91
	81	58	87	68	102	32	48	64	72	108	38	57	75	58	88
84	56	84	65	98	31	46	62	69	104	36	55	73	56	84	
87	54	81	63	95	30	45	60	67	100	35	53	70	54	82	

ANCHOR LOAD CAPACITY-PSF EXT.(+) & INT.(-)															
NOMINAL DIMENSIONS (IN.)		ANCHOR TYPES													
		1/4" SHIM				3/8" SHIM						1/2" SHIM			
FRAME HEIGHT	MULLION WIDTH	A4	A6	C4	C6	A4 & AA4	A6 & AA6	A8 & AA8	B4	B6	C4	C6	C8	B4	B6
102	36	120	120	120	120	68	102	120	120	120	80	120	120	120	120
	39	113	120	120	120	63	94	120	120	120	74	111	120	114	120
	42	105	120	120	120	58	87	116	120	120	69	103	120	106	120
	45	98	120	115	120	54	81	108	120	120	64	96	120	99	120
	48	92	120	108	120	51	76	102	114	120	60	90	120	93	120
	51	86	120	101	120	48	72	96	107	120	56	85	113	87	120
	54	82	120	96	120	45	68	90	101	120	53	80	107	82	120
	57	77	116	91	120	43	64	86	96	120	50	76	101	78	117
	60	73	110	86	120	41	61	81	91	120	48	72	96	74	111
	63	70	105	82	120	39	58	77	87	120	46	69	91	71	106
	66	67	100	78	118	37	55	74	83	120	44	65	87	67	101
	69	64	96	75	112	35	53	71	79	119	42	63	83	64	97
	72	61	92	72	108	34	51	68	76	114	40	60	80	62	93
	75	59	88	69	103	33	49	65	73	109	38	58	77	59	89
	78	56	85	66	99	31	47	63	70	105	37	55	74	57	86
	81	54	82	64	96	30	45	60	67	101	36	53	71	55	82
84	52	79	62	92	29	44	58	65	98	34	51	69	53	79	
87	51	76	59	89	28	42	56	63	94	33	50	66	51	77	
108	36	116	120	120	120	64	96	120	120	120	75	113	120	117	120
	39	107	120	120	120	59	89	118	120	120	70	105	120	108	120
	42	99	120	116	120	55	82	110	120	120	65	97	120	100	120
	45	92	120	109	120	51	77	102	115	120	60	91	120	93	120
	48	87	120	102	120	48	72	96	108	120	57	85	113	88	120
	51	82	120	96	120	45	68	90	101	120	53	80	107	82	120
	54	77	116	90	120	43	64	85	96	120	50	75	101	78	117
	57	73	109	86	120	40	61	81	91	120	48	72	95	74	111
	60	69	104	81	120	38	58	77	86	120	45	68	91	70	105
	63	66	99	78	116	37	55	73	82	120	43	65	86	67	100
	66	63	95	74	111	35	52	70	78	117	41	62	82	64	96
	69	60	90	71	106	33	50	67	75	112	39	59	79	61	91
	72	58	87	68	102	32	48	64	72	108	38	57	75	58	88
	75	55	83	65	98	31	46	61	69	103	36	54	72	56	84
	78	53	80	63	94	30	44	59	66	99	35	52	70	54	81
	81	51	77	60	90	28	43	57	64	96	34	50	67	52	78
84	50	74	58	87	27	41	55	61	92	32	49	65	50	75	
87	48	72	56	84	26	40	53	59	89	31	47	62	48	72	

FLORIDA APPROVAL:
FL #21033

YIPING WANG
FLORIDA REGISTRATION
LICENSE
No. 55883
C.A.N. 28877
STATE OF FLORIDA
PROFESSIONAL ENGINEER

December 14th, 2023

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

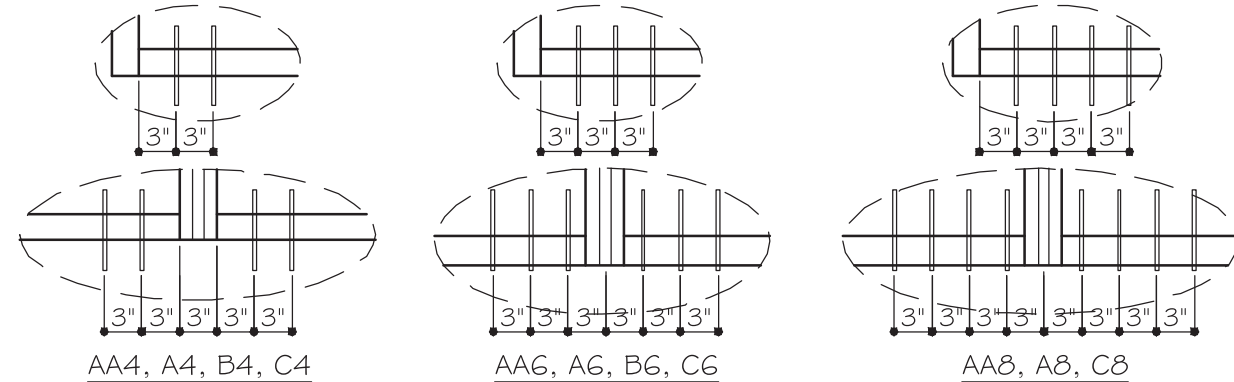
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SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)

Drawn Date	Scale
11/24/2023	AS SHOWN
Drawn By	Description
James	FBC 2023
Date	
11/24/2023	
Rev. No.	
R2	
DRAWING NO.	
AD16-26	
A2	
Sheet No.	
11 OF 19	

ANCHOR LOAD CAPACITY-PSF EXT.(+) & INT.(-)															
NOMINAL DIMENSIONS (IN.)		ANCHOR TYPES													
		1/4" SHIM				3/8" SHIM								1/2" SHIM	
FRAME HEIGHT	MULLION WIDTH	A4	A6	C4	C6	A4 & AA4	A6 & AAG	A8 & AA8	B4	B6	C4	C6	C8	B4	B6
114	36	109	120	120	120	61	91	120	120	120	72	107	120	111	120
	39	101	120	119	120	56	84	112	120	120	66	99	120	102	120
	42	94	120	110	120	52	78	104	116	120	61	92	120	95	120
	45	88	120	103	120	49	73	97	109	120	57	86	114	88	120
	48	82	120	96	120	45	68	91	102	120	54	80	107	83	120
	51	77	116	91	120	43	64	86	96	120	50	76	101	78	117
	54	73	109	86	120	40	61	81	91	120	48	72	95	74	111
	57	69	104	81	120	38	57	77	86	120	45	68	90	70	105
	60	66	99	77	116	36	55	73	82	120	43	64	86	66	100
	63	63	94	73	110	35	52	69	78	116	41	61	82	63	95
	66	60	90	70	105	33	50	66	74	111	39	59	78	60	90
	69	57	86	67	101	32	47	63	71	106	37	56	75	58	87
	72	55	82	64	96	30	45	61	68	102	36	54	72	55	83
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ANCHOR LOAD CAPACITY-PSF EXT.(+) & INT.(-)																
NOMINAL DIMENSIONS (IN.)		ANCHOR TYPES														
		1/4" SHIM				3/8" SHIM								1/2" SHIM		
FRAME HEIGHT	MULLION WIDTH	A4	A6	C4	C6	A4 & AA4	A6 & AAG	A8 & AA8	B4	B6	C4	C6	C8	B4	B6	
138	36	90	120	106	120	50	75	100	112	120	59	89	118	91	120	
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60		52	78	61	92	29	43	58	65	97	34	51	68	53	79	



TYPICAL ANCHORS: SEE SHEET D1 FOR DESCRIPTION

- AA4 - (2) TYPE "AA" ANCHORS AT EACH SIDE OF JAMB OR MULLION
- A4 - (2) TYPE "A" ANCHORS AT EACH SIDE OF JAMB OR MULLION
- B4 - (2) TYPE "B" ANCHORS AT EACH SIDE OF JAMB OR MULLION
- C4 - (2) TYPE "C" ANCHORS AT EACH SIDE OF JAMB OR MULLION

- AAG - (3) TYPE "A" ANCHORS AT EACH SIDE OF JAMB / MULLION
- AG - (3) TYPE "A" ANCHORS AT EACH SIDE OF JAMB / MULLION
- B6 - (3) TYPE "B" ANCHORS AT EACH SIDE OF JAMB OR MULLION
- C6 - (3) TYPE "C" ANCHORS AT EACH SIDE OF JAMB / MULLION

- AA8 - (4) TYPE "A" ANCHORS AT EACH SIDE OF JAMB / MULLION
- A8 - (4) TYPE "A" ANCHORS AT EACH SIDE OF JAMB / MULLION
- C8 - (4) TYPE "C" ANCHORS AT EACH SIDE OF JAMB / MULLION

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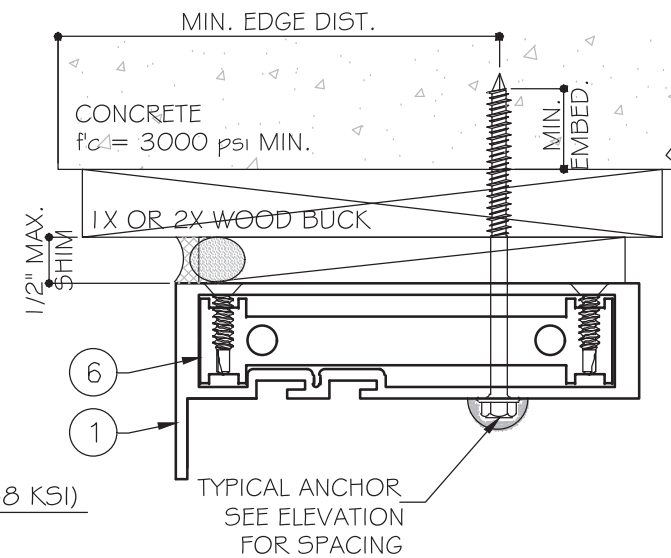
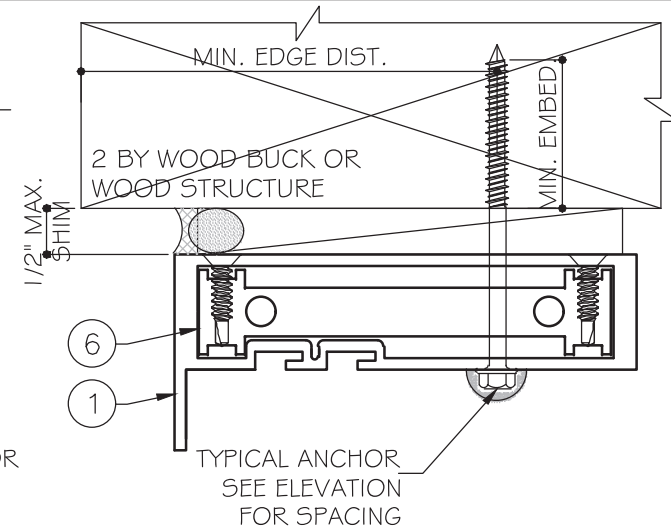
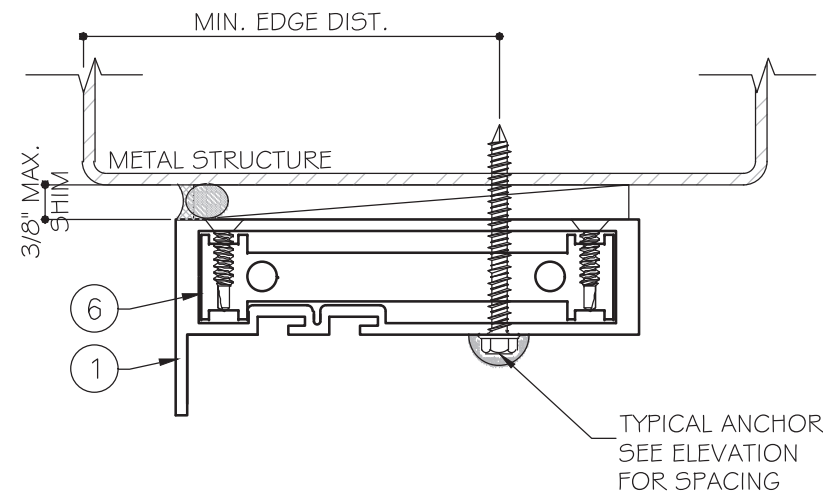
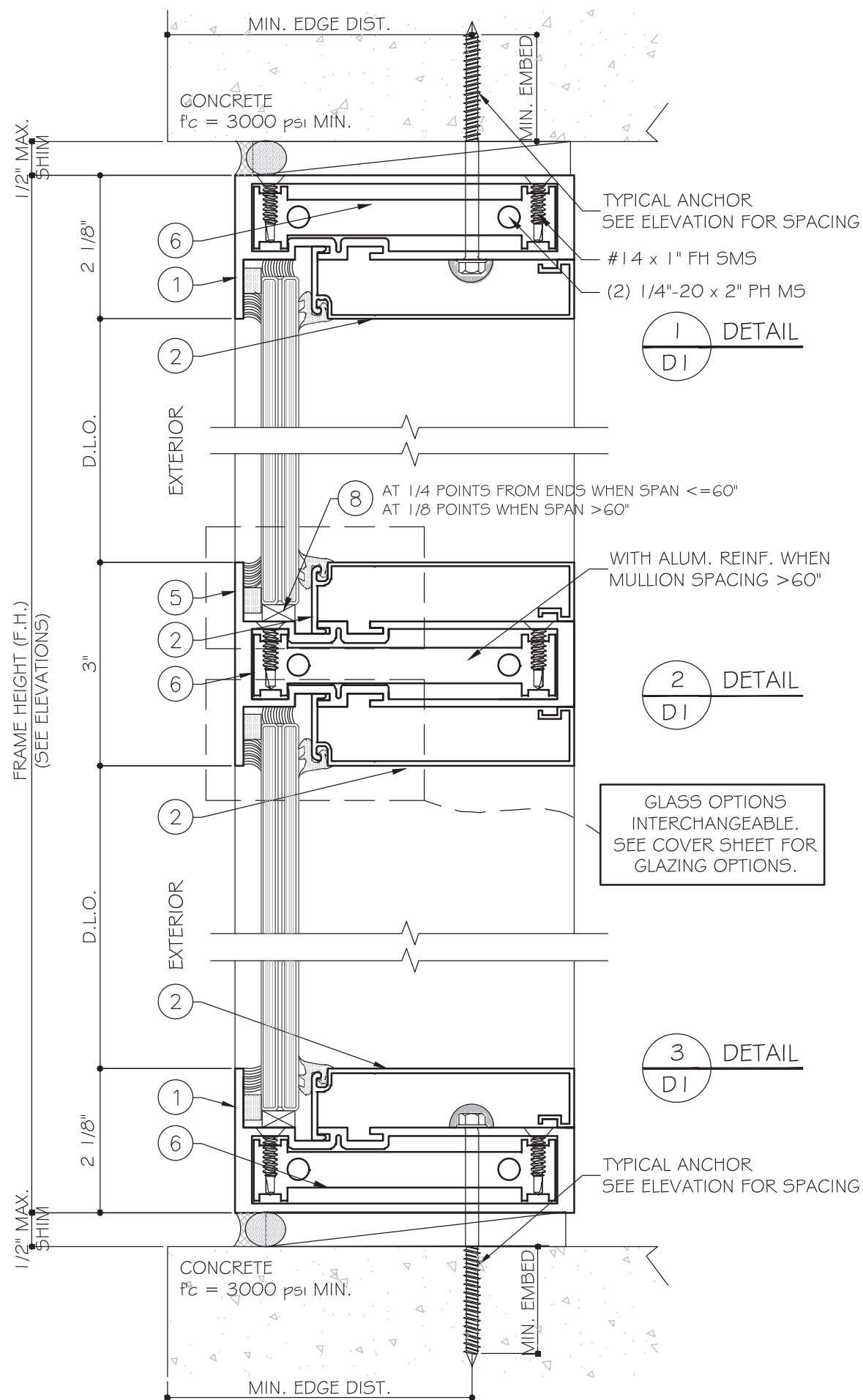
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Drawn Date 11/24/2023	Scale
Drawn By James	Scale
Date 11/24/2023	
Rev. No. R2	
DRAWING NO. AD16-26	
Sheet No. A3	
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TYPICAL ANCHORS:
(SEE ELEVATIONS FOR SPACING)

TYPE 'AA': 1/4" ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI, $F_y = 148$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. EMBED INTO WOOD ($SG = 0.55$ MIN.)

OR THRU WOOD BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'A': 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI, $F_y = 148$ KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'B': 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 'C': #14 TEKS SELF-DRILLING SCREW (GRADE 5)
INTO 1/8" THK. MIN. ALUMINUM (6063-T5 MIN.)
OR INTO 12 GA. THK. MIN. METAL STRUCTURE

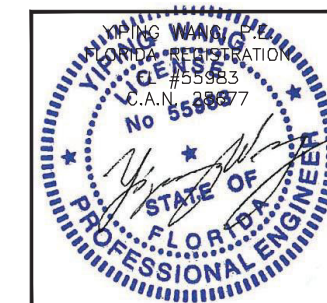
STEEL : 12 GA. MIN. ($F_y = 36$ KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE:

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE $f_c = 3000$ PSI MIN. (NORMAL WEIGHT)

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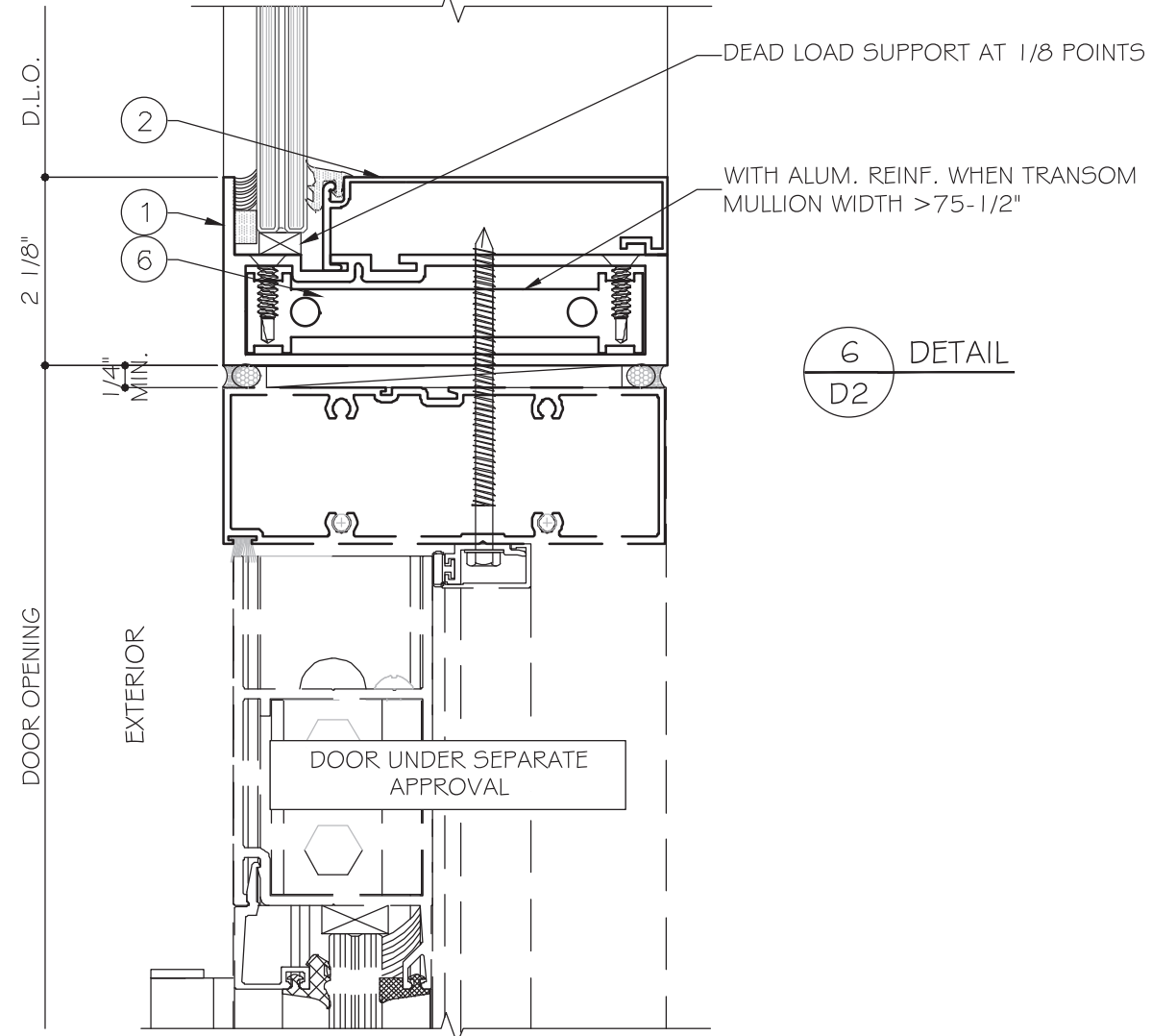
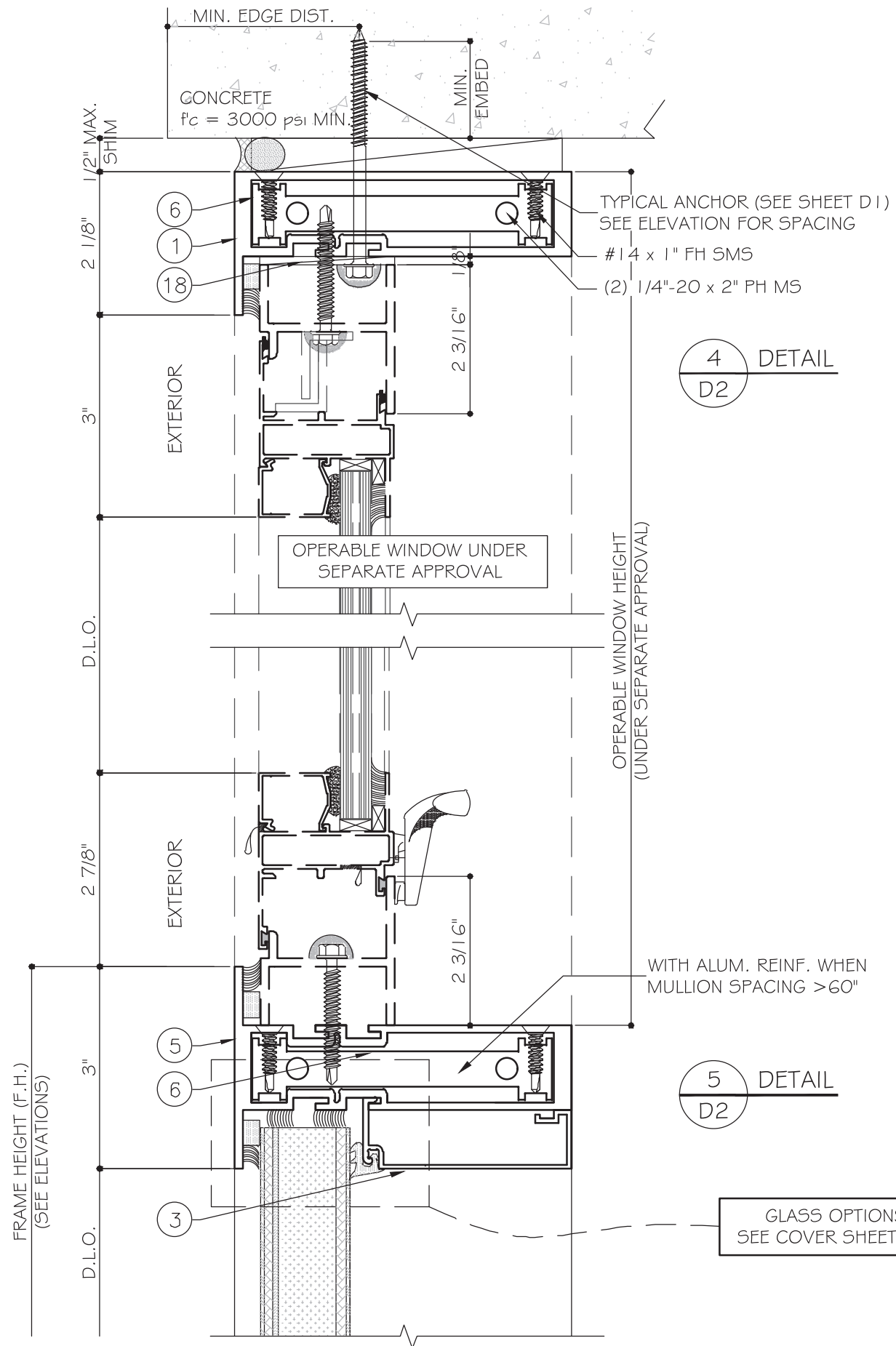


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www.MCYEngineering.com mcy@mcyengineering.com

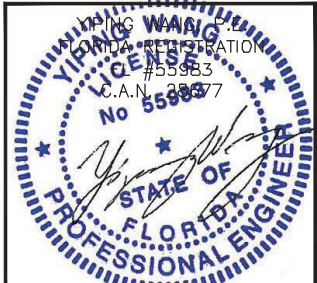
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R2	11/24/2023	James	FBC 2023
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D1			
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GLASS OPTIONS INTERCHANGEABLE.
SEE COVER SHEET FOR GLAZING OPTIONS.

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Drawn Date: 11/24/2023 Scale: AS SHOWN

DRAWING NO. AD16-26

Sheet No. D2

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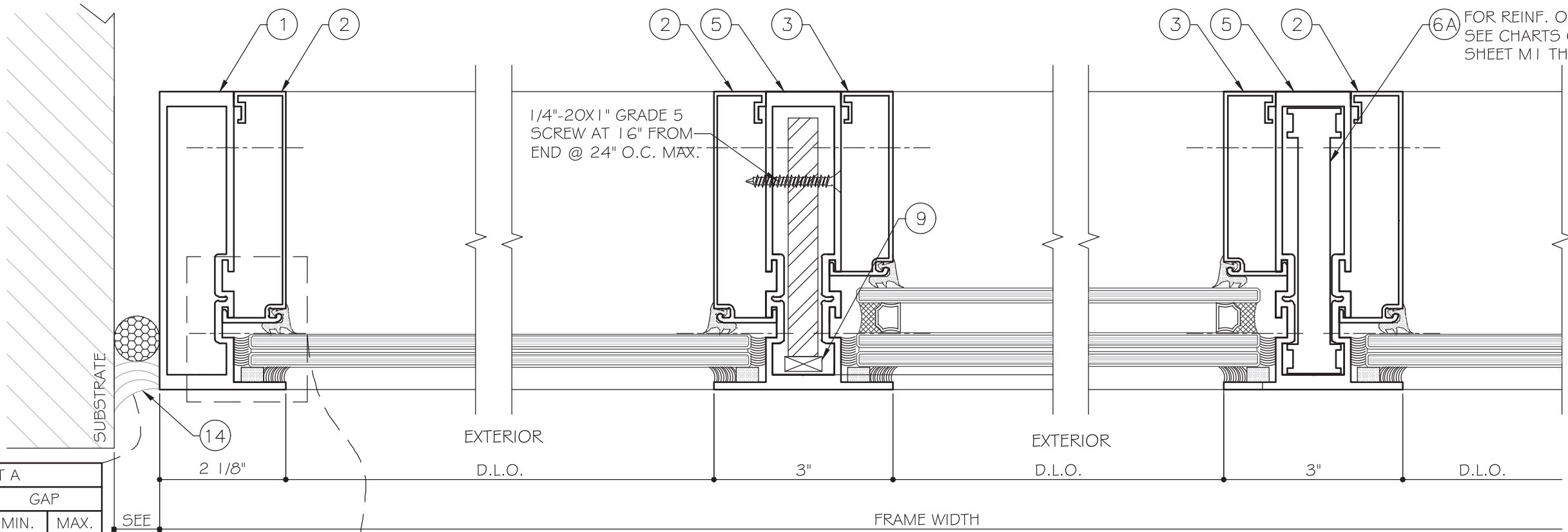


CHART A

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
84"	1/2"	1"
96"	1/2"	1"
108"	5/8"	1"
120"	5/8"	1"
138"	3/4"	1"
144"	3/4"	1"

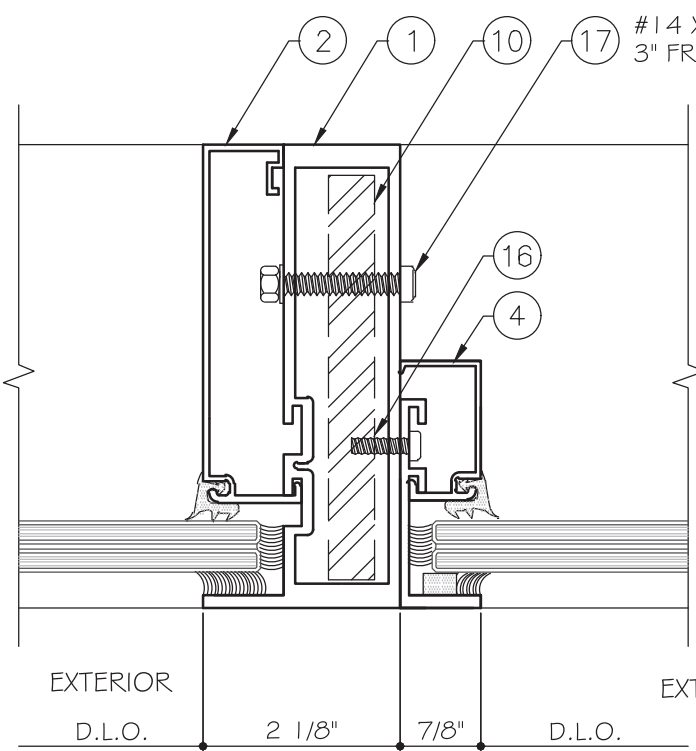
SEE CHART A

7 DETAIL
D3

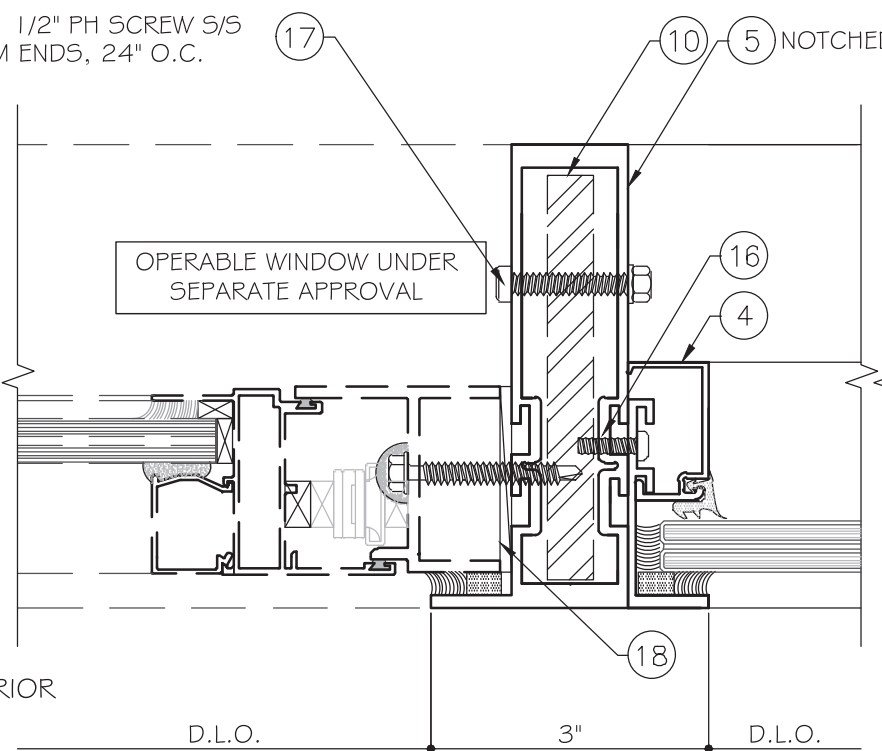
GLASS OPTIONS INTERCHANGEABLE. SEE COVER SHEET FOR GLAZING OPTIONS.

8 DETAIL
D3 REINF. OPTION - M3

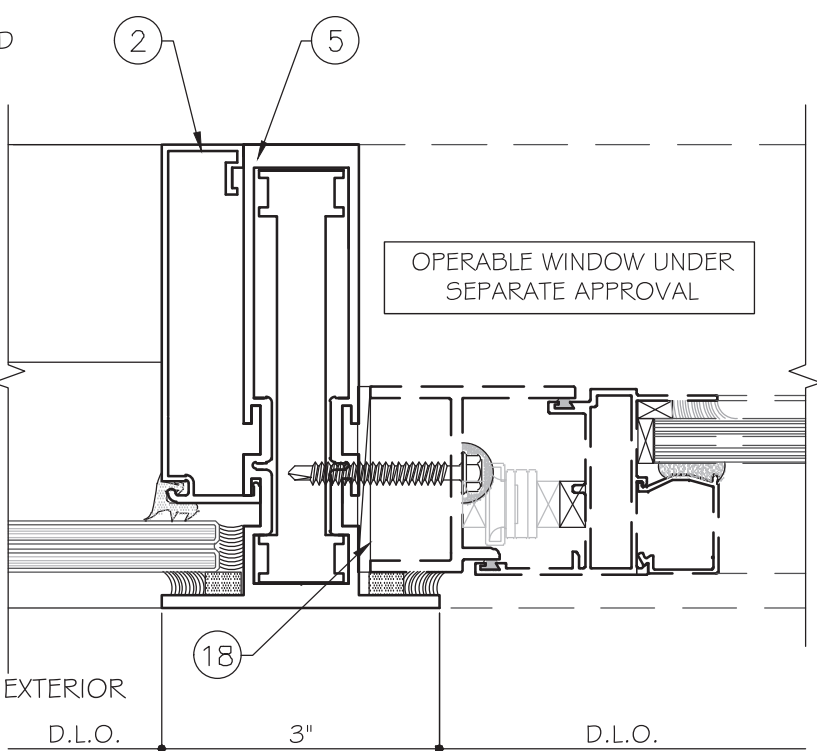
8 DETAIL
D3 ALUM. REINF. OPTION - M2



9 DETAIL
D3 DJM TRANSOM DETAIL

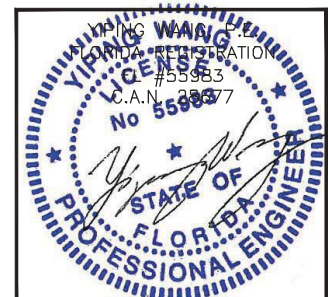


10 DETAIL
D3 DJM DETAIL



10A DETAIL
D3 M2 SHOWN

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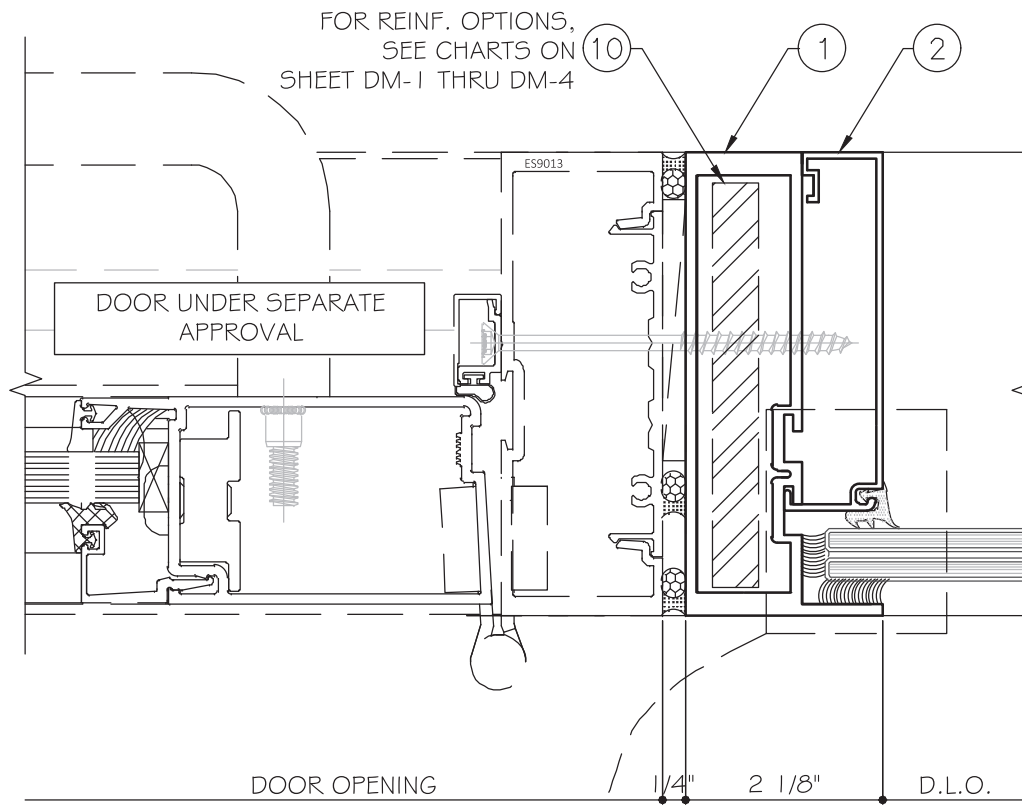
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MIRAMAR, FL 33027 P. 305.271.0117
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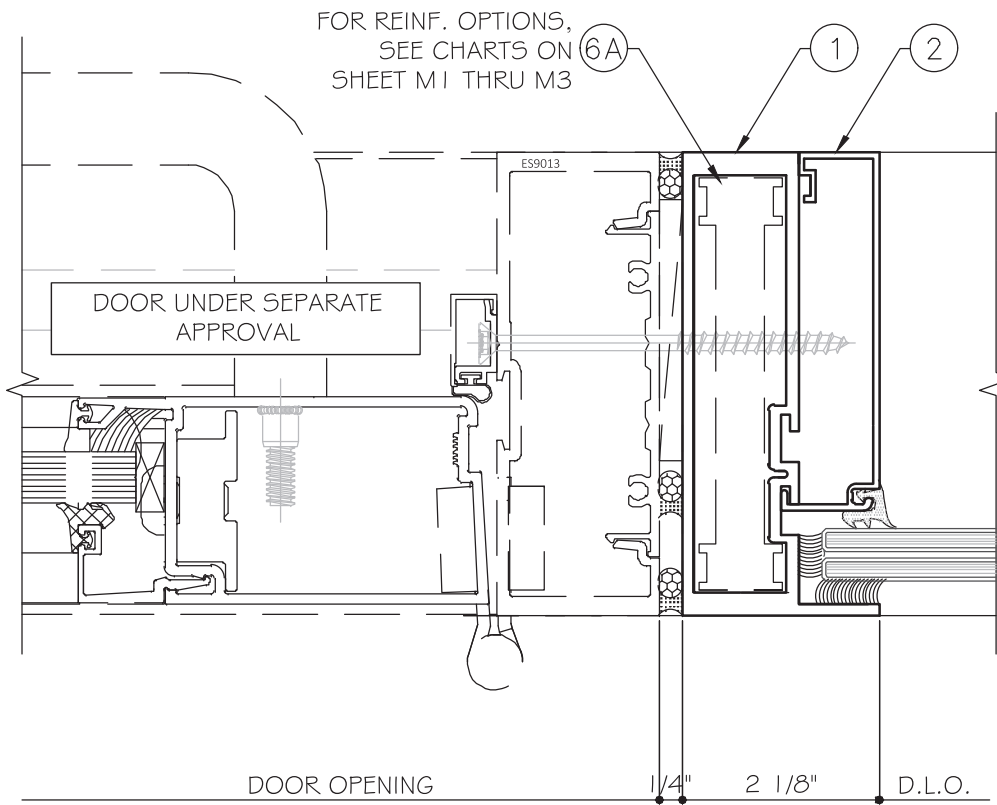
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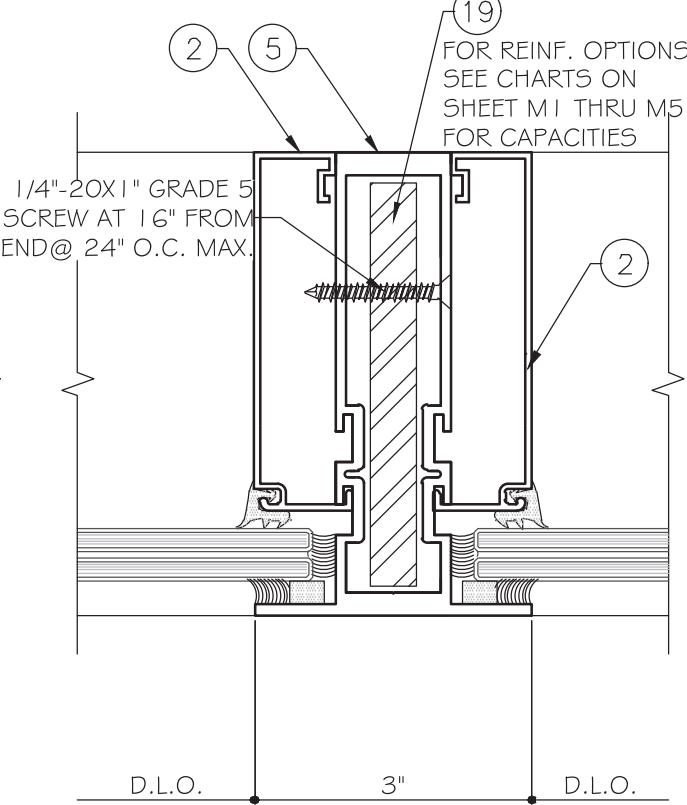
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DRAWING NO.: AD16-26
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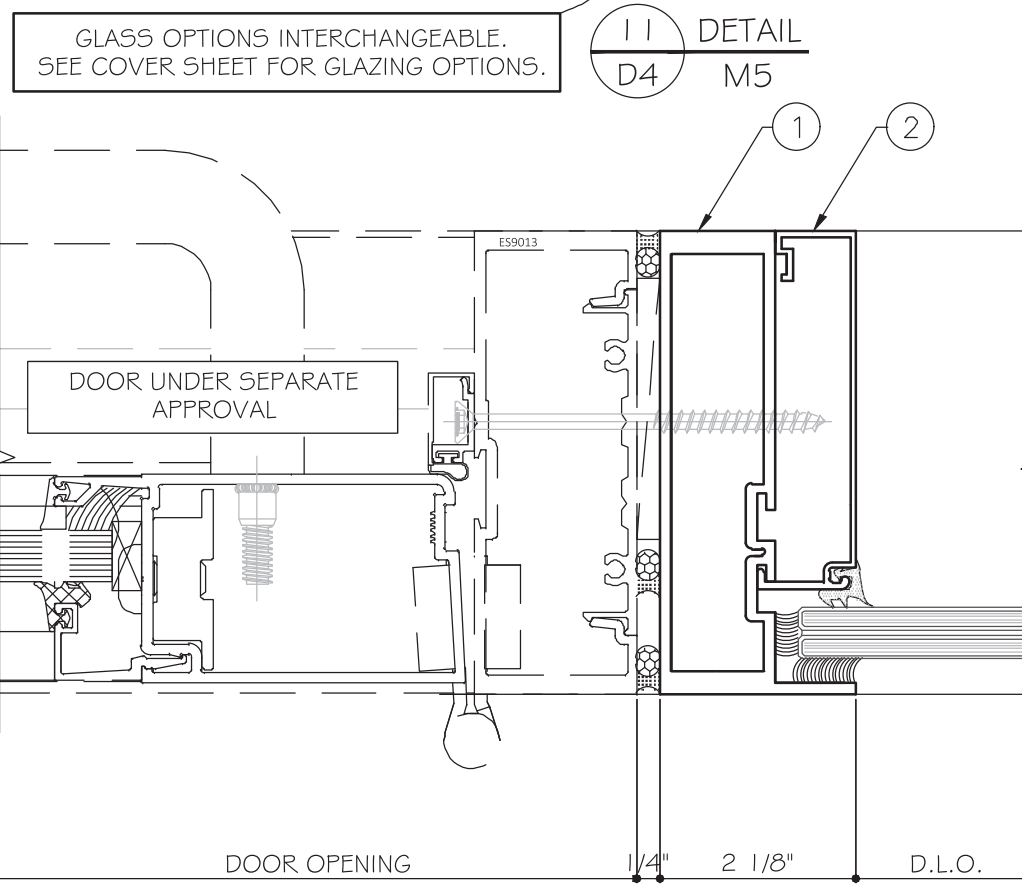
DOOR OPENING 1/4" 2 1/8" D.L.O.



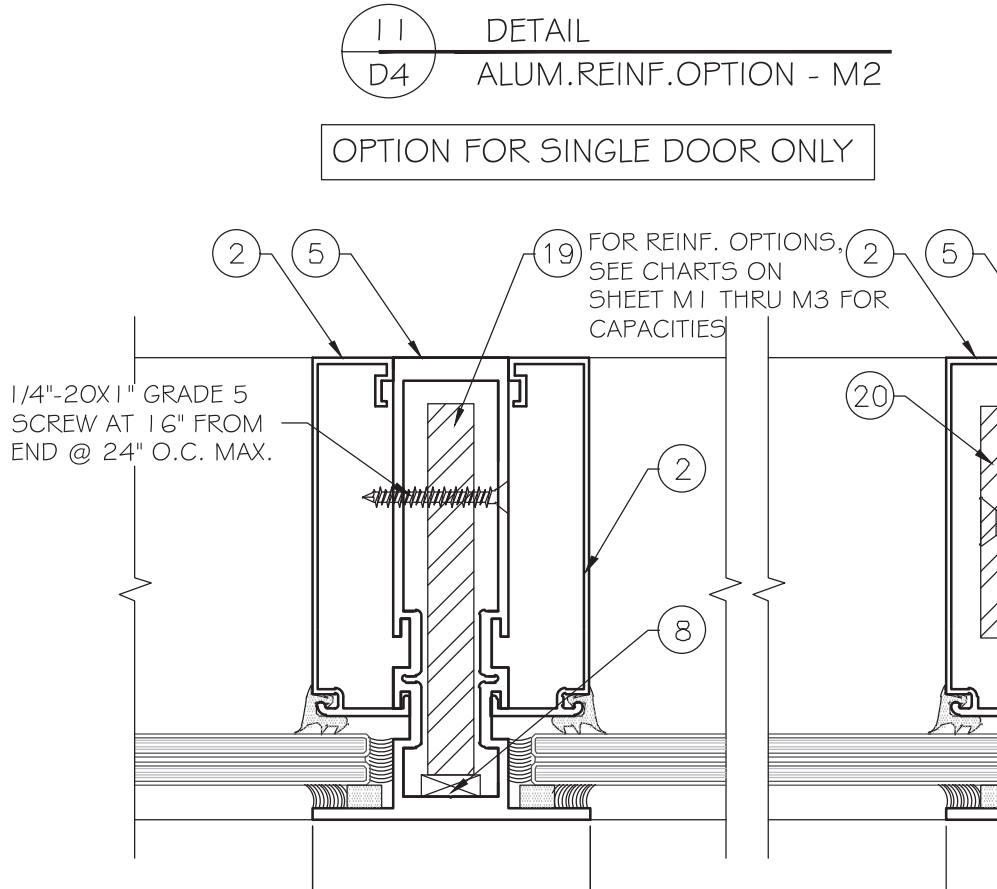
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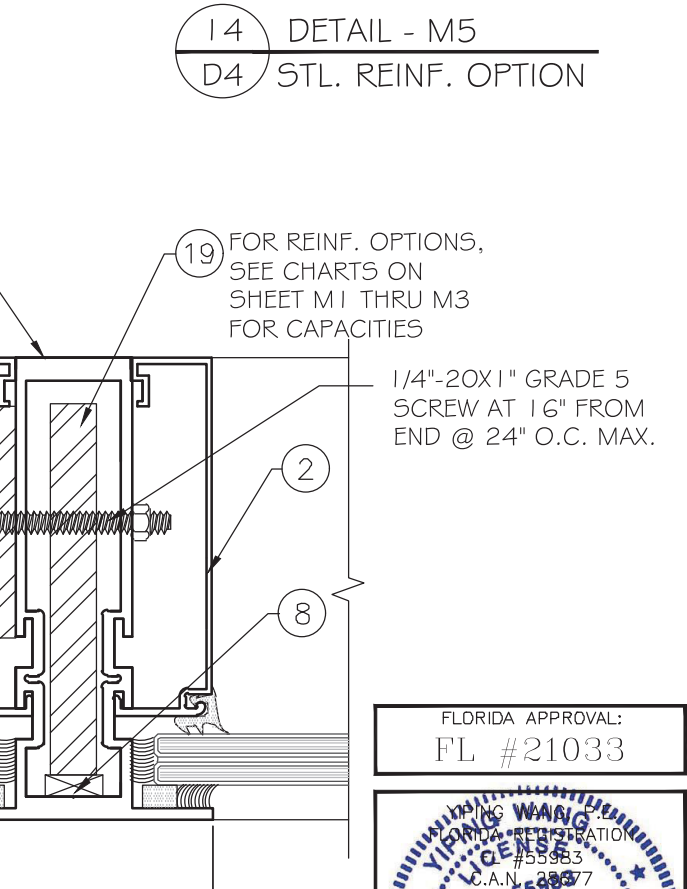
D.L.O. 3" D.L.O.



DOOR OPENING 1/4" 2 1/8" D.L.O.



D.L.O. 3" D.L.O.



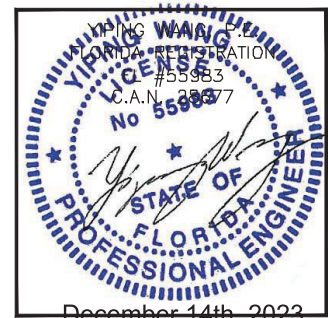
D.L.O. 3" D.L.O.

11 DETAIL
D4 UNREINFORCED - M1
OPTION FOR SINGLE DOOR ONLY

12 DETAIL - M3
D4 STL. REINF. OPTION

13 DETAIL - M4
D4 STL. REINF. OPTION

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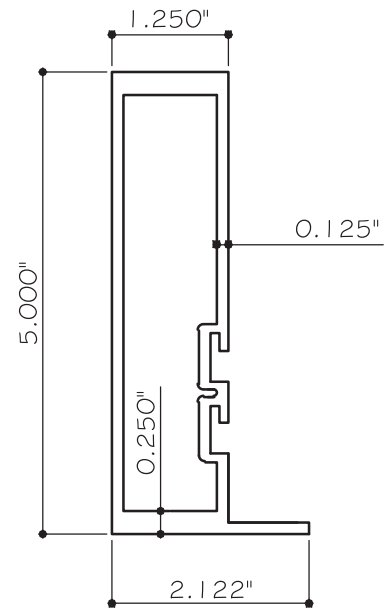


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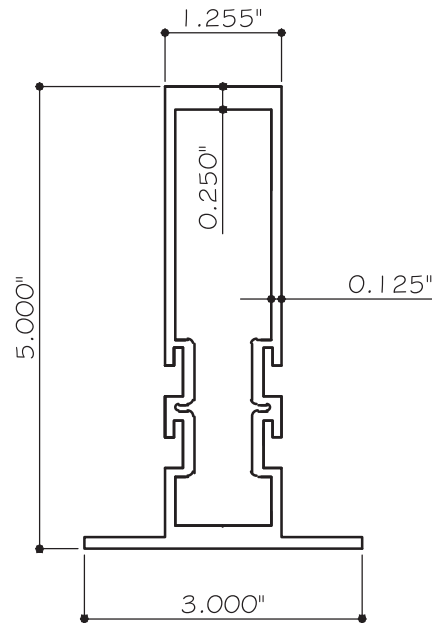
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SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)
SOL-A-TROL
 aluminum products
 4101 N.W. 132nd Street
 Miami, Florida 33054
 Phone: (305) 681-2020 Fax: (305) 681-2035

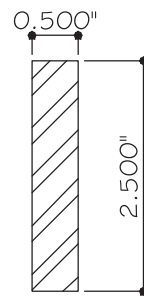
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11/24/2023	AS SHOWN
Drawn By	Description
James	FBC 2023
Date	
11/24/2023	
Rev. No.	
R2	
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D4	
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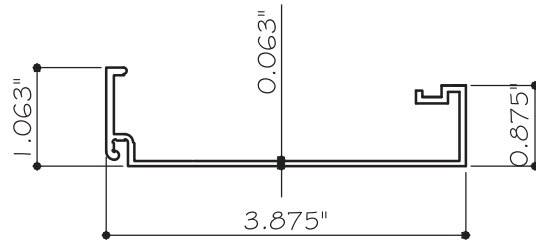
1 FRAME HEAD/JAMB/SILL
(ARSO-1008) ALUM. 6063-T6



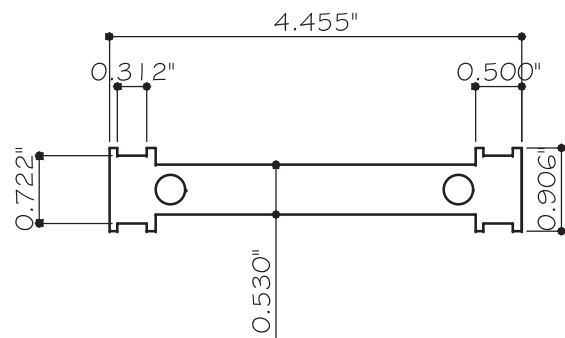
5 INTERMEDIATE VER./HOR.
(ARSO-1011) ALUM. 6063-T6



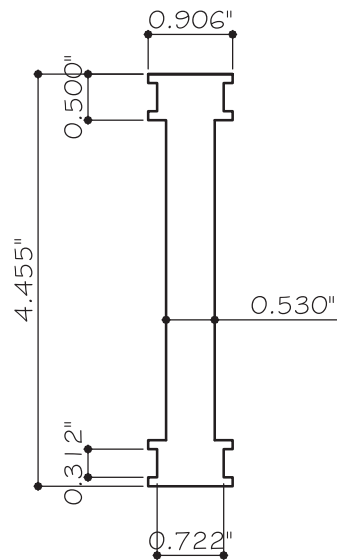
20 1/2" X 2 1/2" STEEL REINFORCEMENT
- STEEL A36



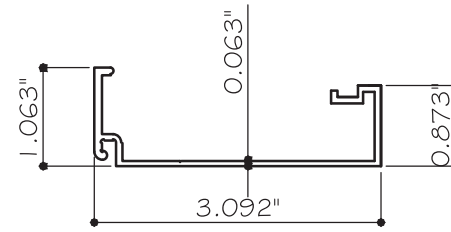
2 GLAZING BEAD (9/16" GL)
(ARSO-1009) ALUM. 6063-T6



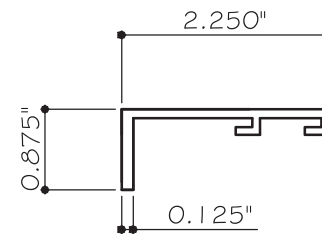
6 SHEAR BLOCK
(ARSO-1012) ALUM. 6063-T6



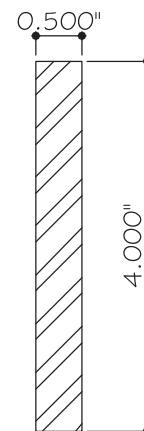
6A ALUM. REINF.
(ARSO-1012) ALUM. 6063-T6



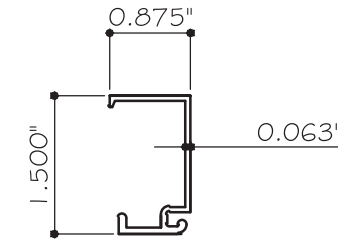
3 GLAZING BEAD (1-5/16" GL)
(ARSO-1010) ALUM. 6063-T6



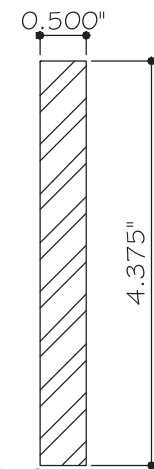
7 TRANSOM JAMB ADAPTOR
(ARSO-1014) ALUM. 6063-T6



19 1/2" X 4" STEEL REINFORCEMENT
- STEEL A36



4 TRANSOM GLAZING BEAD
(ARSO-1013) ALUM. 6063-T6



10 1/2" X 4-3/8" STEEL REINFORCEMENT
- STEEL A36

FLORIDA APPROVAL:
FL #21033

YIPING WANG
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE # 55883
C.A.N. 38877
No 55883

December 14th, 2023

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SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)

Rev. No.	Date	Drawn By	Description
R2	11.24.2023	James	FBC 2023

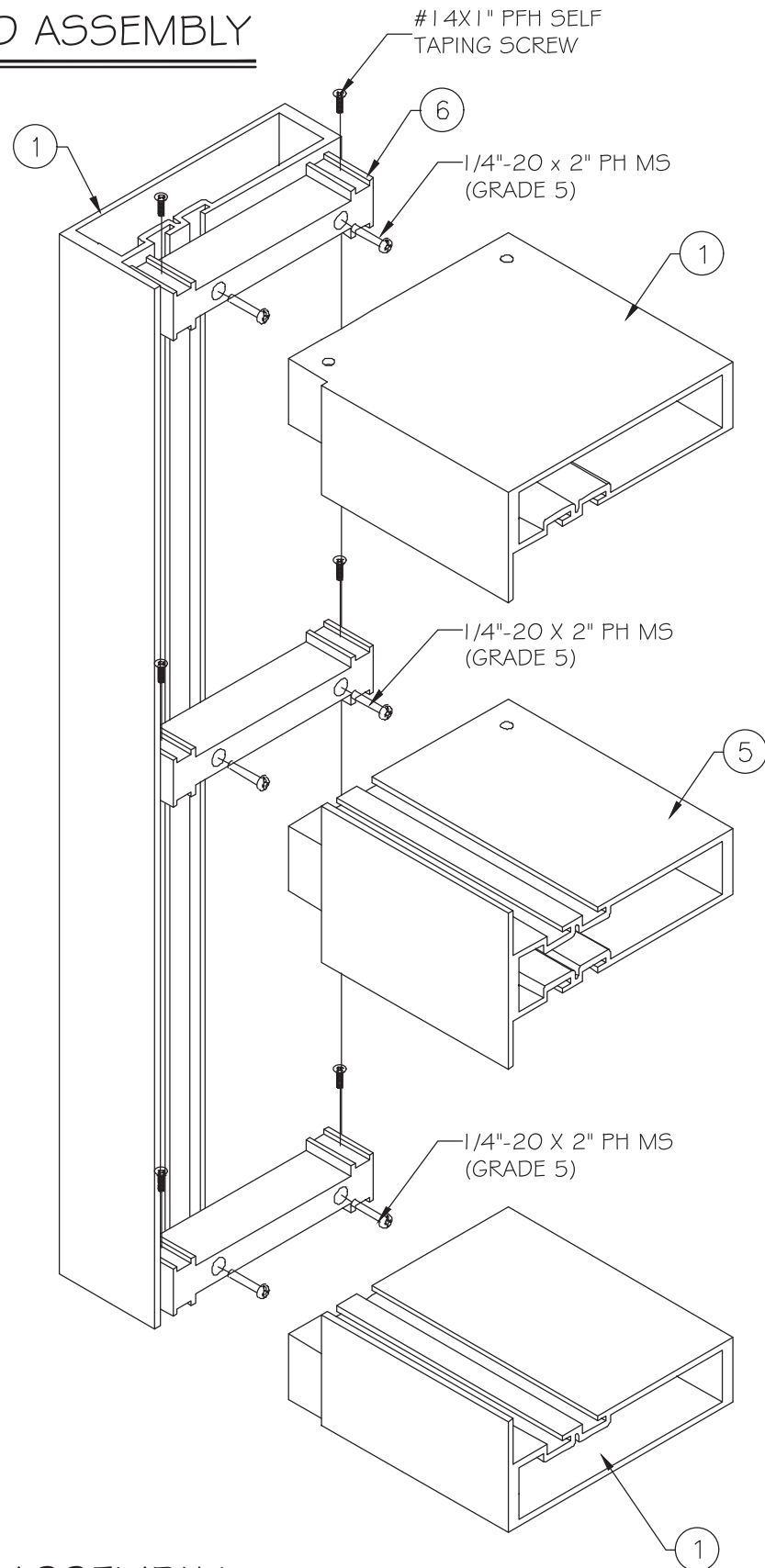
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DRAWING NO. AD16-26

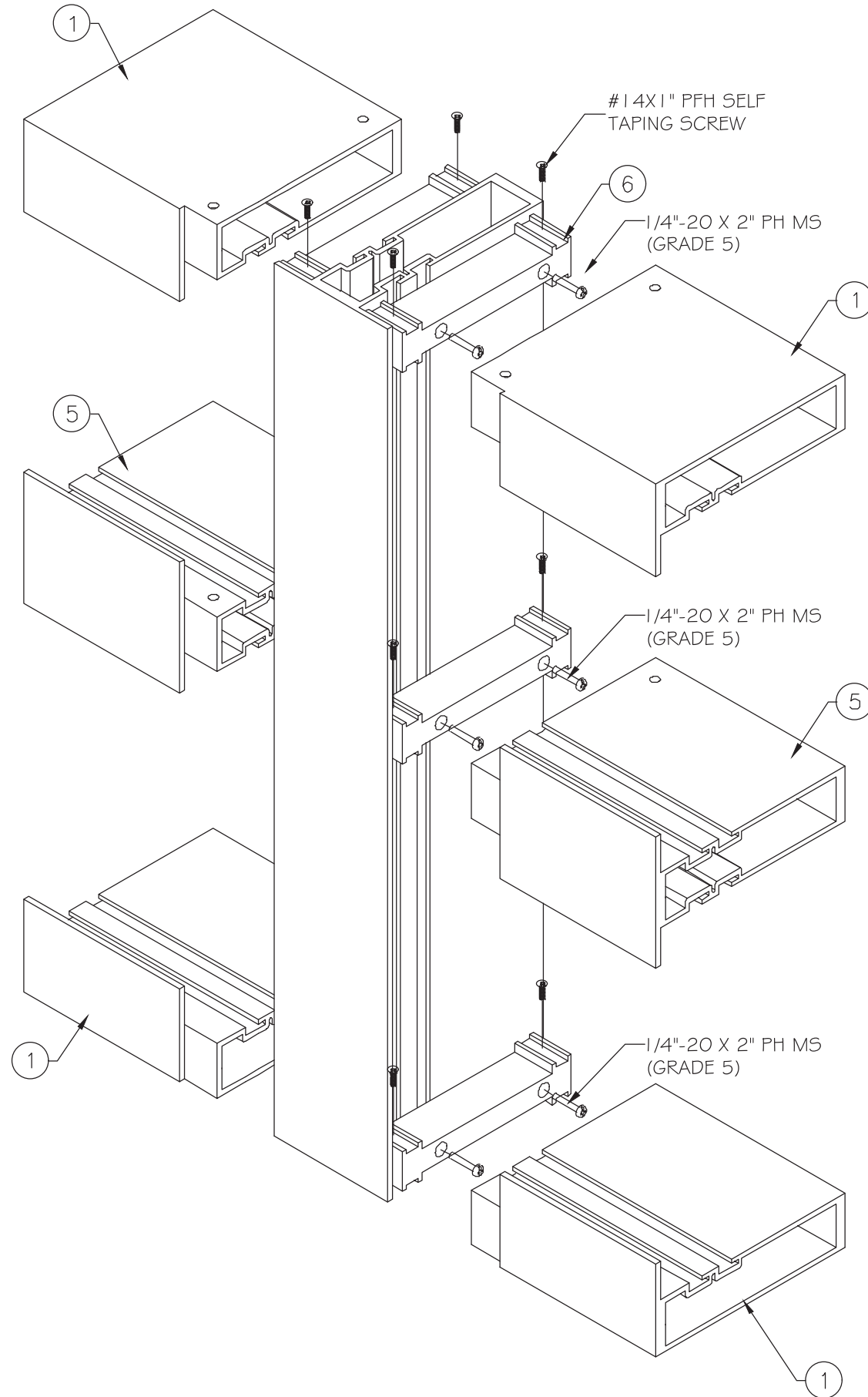
PARTS

Sheet No. 17 OF 19

HEAD ASSEMBLY



SILL ASSEMBLY



INTERM. HORIZONTAL

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PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE #55883
C.A.N. 28877

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SERIES 5000 ALUMINUM WINDOW WALL SYSTEM (LMI & SMI)

Rev. No.	Date	Drawn By	Description
R2	11.24.2023	James	FBC 2023

Drawn Date: 11/24/2023 Scale: AS SHOWN

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