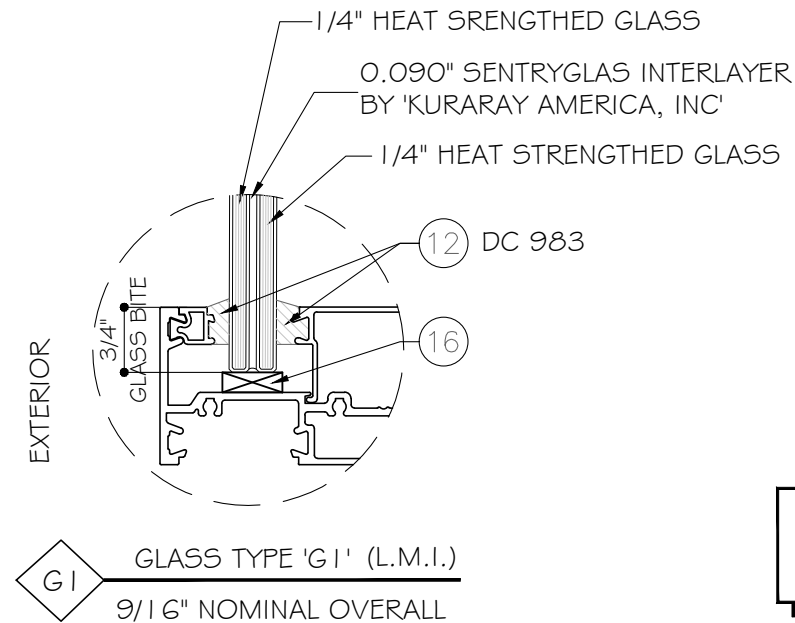


SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD.
SPA150 WINDOW WALL SYSTEM - L.M.I.



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

GENERAL NOTES:

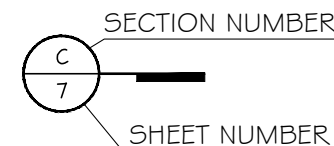
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR LARGE AND SMALL MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. FOR ABOVE 30 FT OF GRADE, SMI TO BE USED. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY SHANGHAI SUPERHOUSE BUILDING MATERIAL TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-16/ ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 FOR TYPICAL WINDOW WALL ELEVATION. MULLION CAPACITIES SEE SHEET M1 & M2.
- STEP 3: SEE SHEET A1 FOR ANCHOR OPTIONS. SEE SHEET E1 FOR NUMBER OF ANCHORS REQUIRED.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER

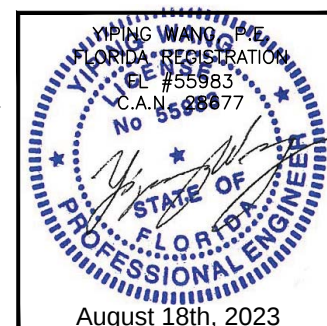


LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.E.D ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL # 29474.2

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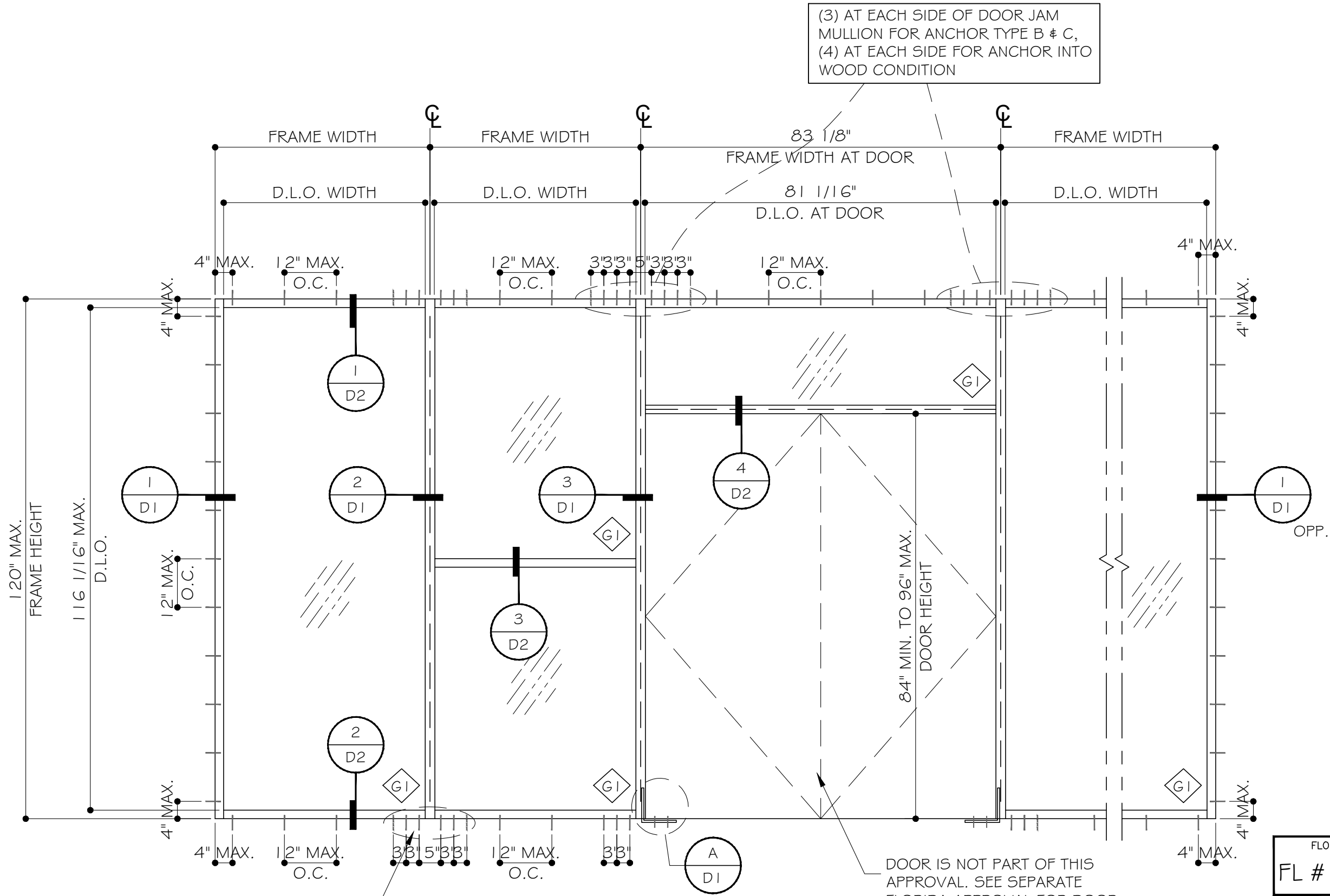
SPA150 WINDOW WALL SYSTEM - L.M.I.&S.M.I.

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
Shanghai, China

Shanghai, China
TEL.86 021-5822 0630 CELL.86 135-8572-3609

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(2) AT EACH SIDE OF MULLION(TYP.)
(3) AT EACH SIDE OF MULLION
FOR INTO WOOD CONDITION

(3) AT EACH SIDE OF DOOR JAM
MULLION FOR ANCHOR TYPE B & C,
(4) AT EACH SIDE FOR ANCHOR INTO
WOOD CONDITION

DOOR IS NOT PART OF THIS
APPROVAL. SEE SEPARATE
FLORIDA APPROVAL FOR DOOR

TYPICAL EXTERIOR ELEVATIONS
SEE SHEET M1 , M2 FOR MULLION SIZE & CAPACITIES

FLORIDA APPROVAL:
FL # 29474.2

Professional Engineer Seal for Yiping Wang, State of Florida, License No. 55888, dated August 18th, 2023.

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Rev.	No.	Date	Drawn By	Description
3	08.15.2023	James		UPDATE TO 2023 FBC
2	03.04.2021	James		UPDATE TO 2020 FBC
1	04.22.2019	James		NEW APPLICATION

Drawing Date
03/03/2021

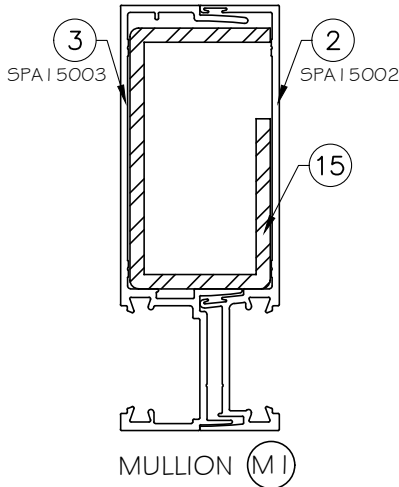
Drawing No.
AD19-15

Sheet No.
2 OF 9

DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF			
MULLION DIMENSIONS (INCH)		(M1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
30	60	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	66	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	72	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	78	70.0	70.0
48		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	84	70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
30	90	70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
30	96	70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
30	102	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
30	108	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0

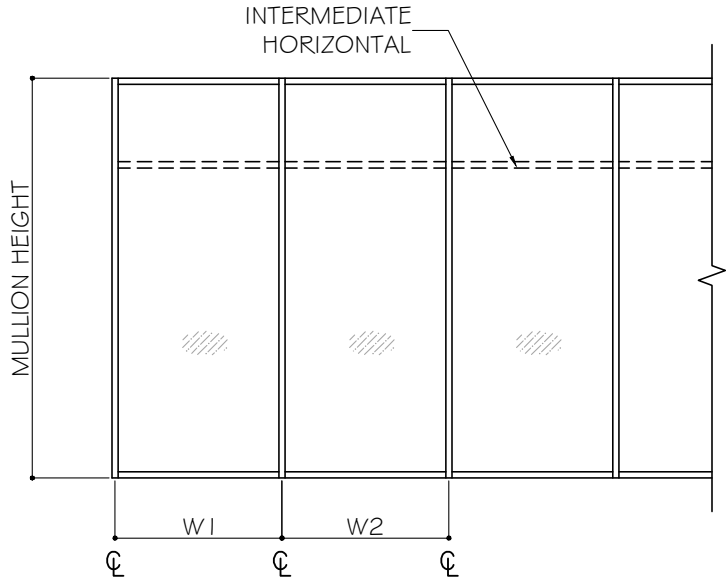
DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF			
MULLION DIMENSIONS (INCH)		(M1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
30	114	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
49.2	118.11	70.0	70.0
30	120	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0

NOTE: JAMBS ARE ANCHORED JAMBS

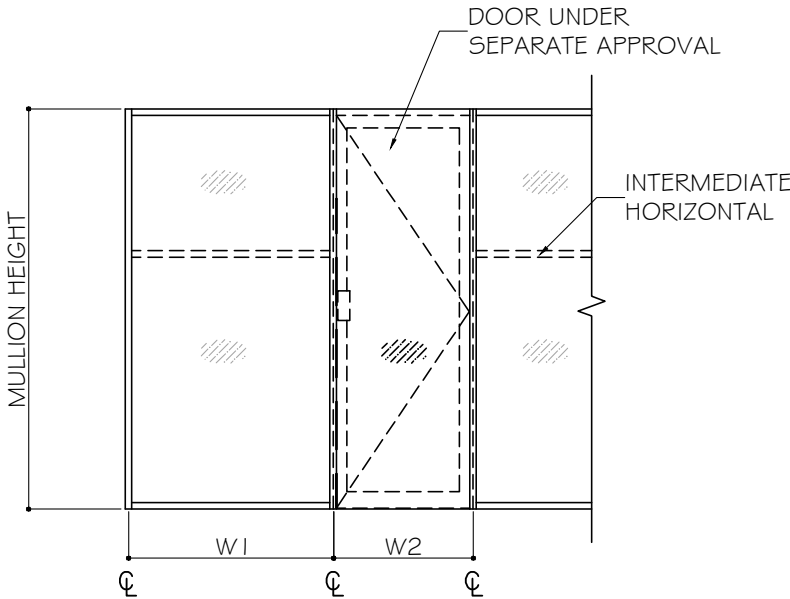


M2	Ix IN^4	Sx IN^3
SPA15002	3.6019	1.1049
SPA15003	4.6391	1.4655
STEEL	3.0362	1.5711
TOTAL	17.046	

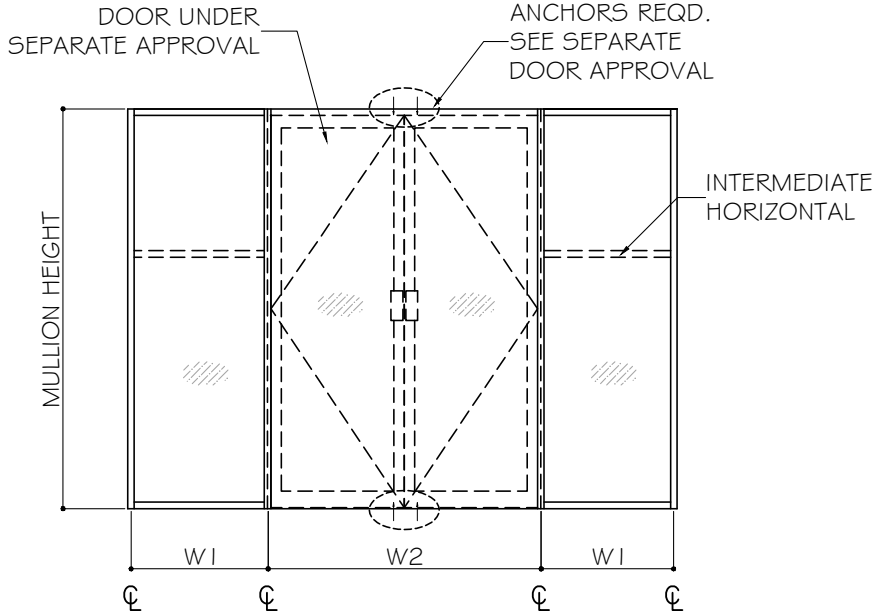
Ix,tot =Ix Alum.+2.9*Ix.STL



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

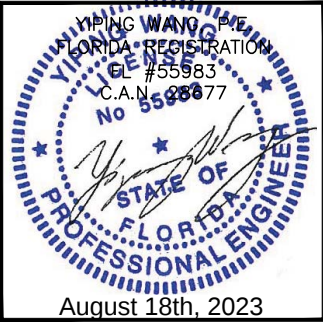


WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1 + W2}{2} + \frac{W2}{4}$
AT MULLION

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		UPDATE TO 2023 FBC		
	James	James	James	Drawn By
3	08.15.2023	03.04.2021	04.22.2019	Date
2				Rev. No.
1				

Drawn Date
03/03/2021

Drawn By

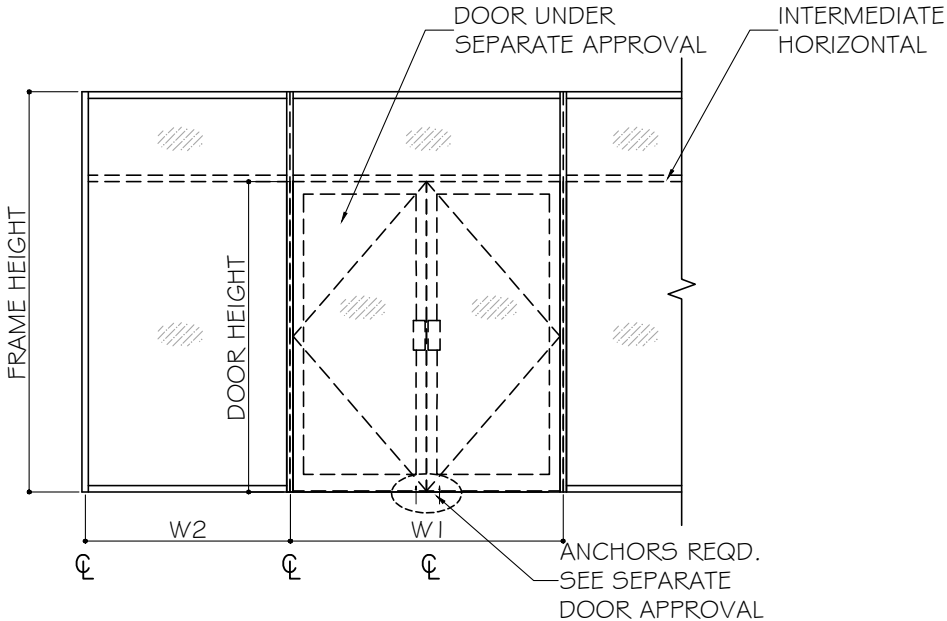
DRAWING NO.
AD19-15

M1

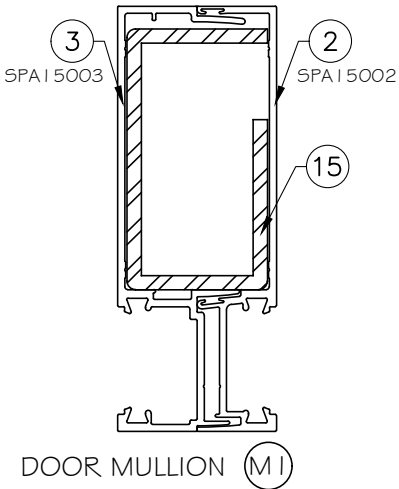
Sheet No.
3 OF 9

DOOR JAMB MULLION DESIGN LOAD CAPACITY					
WINDOW PANEL DIMENSIONS-(INCH)				DESIGN LOAD-PSF	
FRAME HEIGHT(IN) (L)	DOOR HEIGHT(IN) (A)	DOOR WIDTH(IN) (W1)	SIDELITE WIDTH(IN) (W2)	EXT. (+)	INT. (-)
118	84	72	42	70.0	70.0
			48	70.0	70.0
			54	67.0	67.0
			60	64.0	64.0
		78	42	70.0	70.0
			48	68.0	68.0
			54	65.0	65.0
			42	69.0	69.0
		84	48	65.0	65.0
			54	62.0	62.0
			42	70.0	70.0
			48	70.0	70.0
	90	72	54	70.0	70.0
			60	66.0	66.0
			42	70.0	70.0
		78	48	70.0	70.0
			54	67.0	67.0
			42	70.0	70.0
		84	48	68.0	68.0
			42	70.0	70.0
			48	70.0	70.0
			54	70.0	70.0
		72	60	67.0	67.0
			42	70.0	70.0
	96	78	48	70.0	70.0
			54	69.0	69.0
			42	70.0	70.0
		84	48	70.0	70.0

DOOR JAMB MULLION DESIGN LOAD CAPACITY					
WINDOW PANEL DIMENSIONS-(INCH)				DESIGN LOAD-PSF	
FRAME HEIGHT(IN) (L)	DOOR HEIGHT(IN) (A)	DOOR WIDTH(IN) (W1)	SIDELITE WIDTH(IN) (W2)	EXT. (+)	INT. (-)
120	84	72	42	70.0	70.0
			48	68.0	68.0
			54	65.0	65.0
			60	61.0	61.0
		78	42	69.0	69.0
			48	65.0	65.0
			54	62.0	62.0
			42	66.0	66.0
		84	48	62.0	62.0
			42	70.0	70.0
			48	70.0	70.0
			54	67.0	67.0
	90	72	60	63.0	63.0
			42	70.0	70.0
		78	48	68.0	68.0
			54	64.0	64.0
			42	69.0	69.0
		84	48	65.0	65.0
			42	70.0	70.0
			48	70.0	70.0
			54	69.0	69.0
		72	60	66.0	66.0
			42	70.0	70.0
	96	78	48	70.0	70.0
			54	67.0	67.0
			42	70.0	70.0
		84	48	68.0	68.0



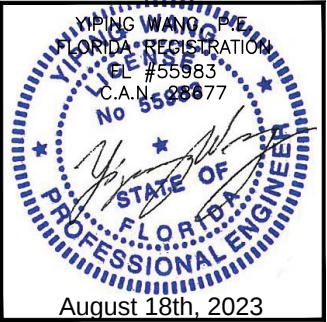
NOTE: ANCHOR AT DOOR JAMB MULLION SEE SHEET E1



M2	lx IN^4	Sx IN^3
SPA15002	3.6019	1.1049
SPA15003	4.6391	1.4655
STEEL	3.0362	1.5711
TOTAL	17.046	

lx.tot =lx Alum.+2.9*lx.STL

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			UPDATE TO 2023 FBC	James	08.15.2023	3	Drawn Date	03/03/2021
			UPDATE TO 2020 FBC	James	03.04.2021	2	Drawn By	
			NEW APPLICATION	James	04.22.2019	1	Rev. No.	
			Description				Date	

DRAWING NO.

AD19-15

M2

Sheet No.

4 OF 9

TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 3/4" MIN. PENETRATION INTO WOOD

THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
WITH 1 3/4" MIN. EMBED INTO CONCRETE

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

INTO HOLLOW BLOCK(JAMB ONLY)
WITH 1 1/4" MIN. EMBED

INTO GROUT FILLED BLOCKS(JAMB ONLY)
WITH 1 3/4" MIN. EMBED

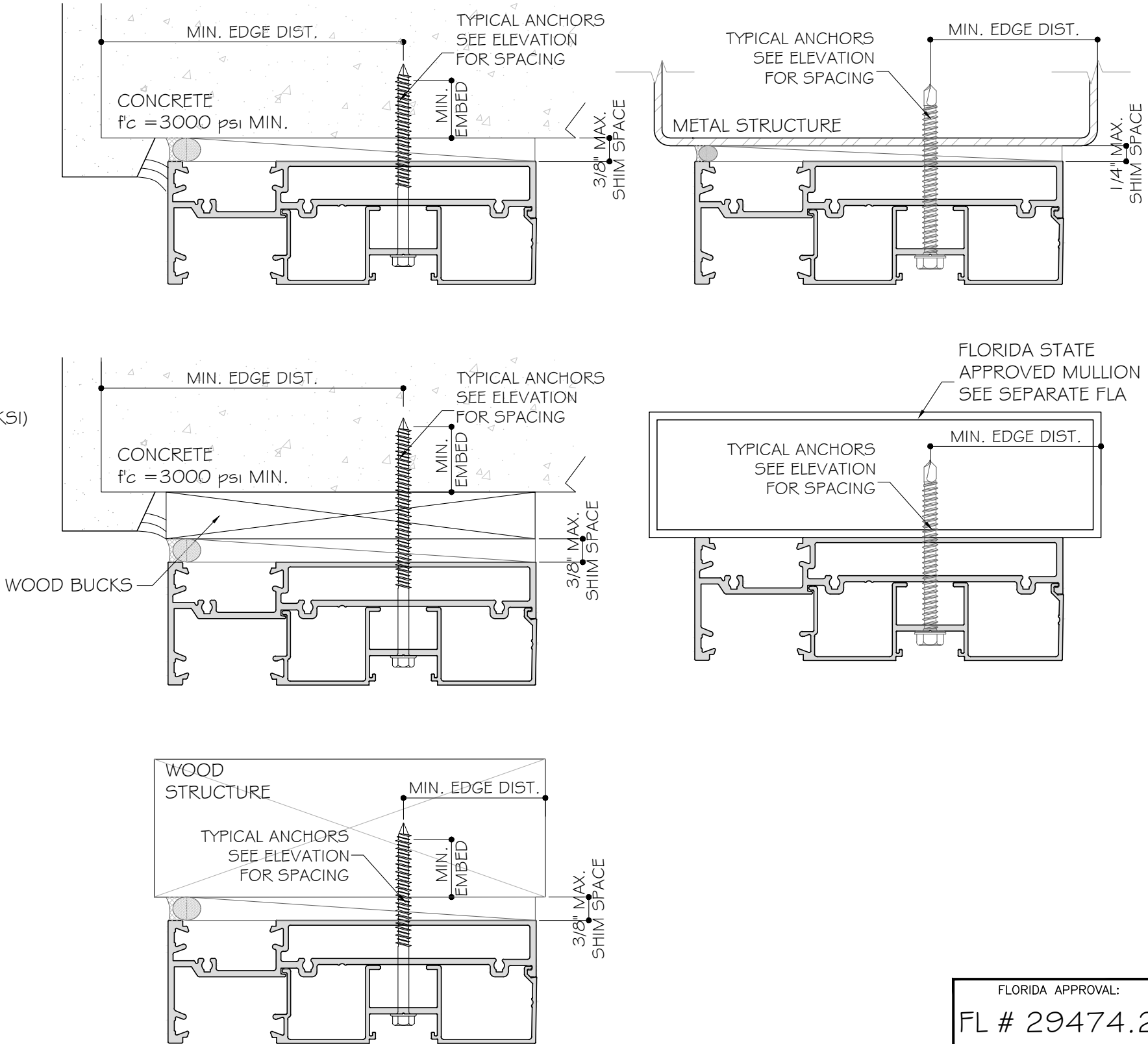
TYPE "C": 1/4" SMS OR SELF DRILLING SCREW(GRADE 5) ($F_u=120$ KSI, $F_y=90$ KSI)
INTO APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE

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

TYPICAL ANCHOR EDGE DISTANCE:
INTO CONCRETE AND MASONRY = 2 1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

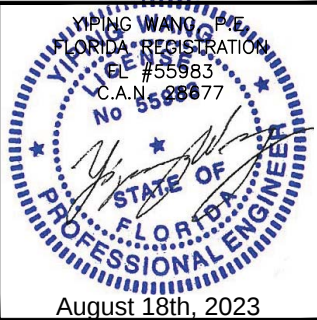
WOOD SG = 0.55 MIN.
CONCRETE $f'_c = 3000$ psi MIN.
C-90 HOLLOW/FILLED BLOCK $f'_m = 2000$ psi MIN.
NORMAL STRENGTH CMU(AT JAMB ONLY)

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 983.
FRAME CORNERS SEALED WITH DOW CORNING 999 OR EQUAL COMPATIBLE



1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY SHANGHAI
SUPERHOUSE BUILDING MATERIAL MUST SUPPORT LOADS IMPOSED
BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING
STRUCTURE.

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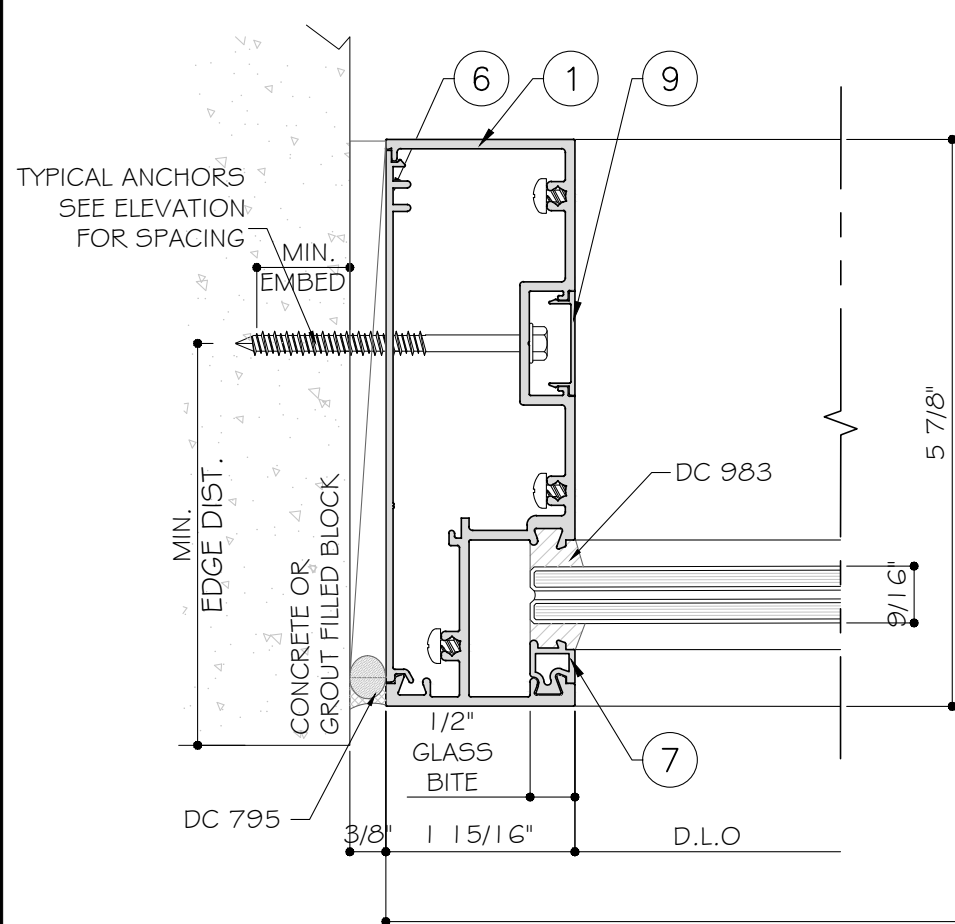
Drawn Date
03/03/2021

Drawn By

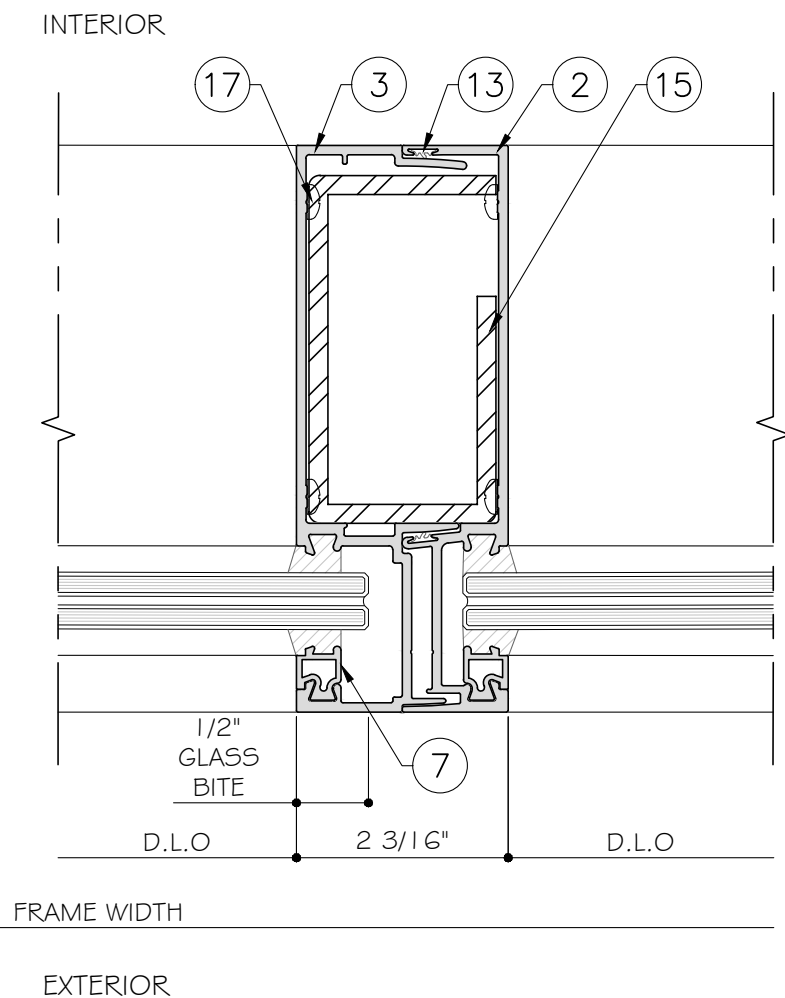
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AD19-15

A1

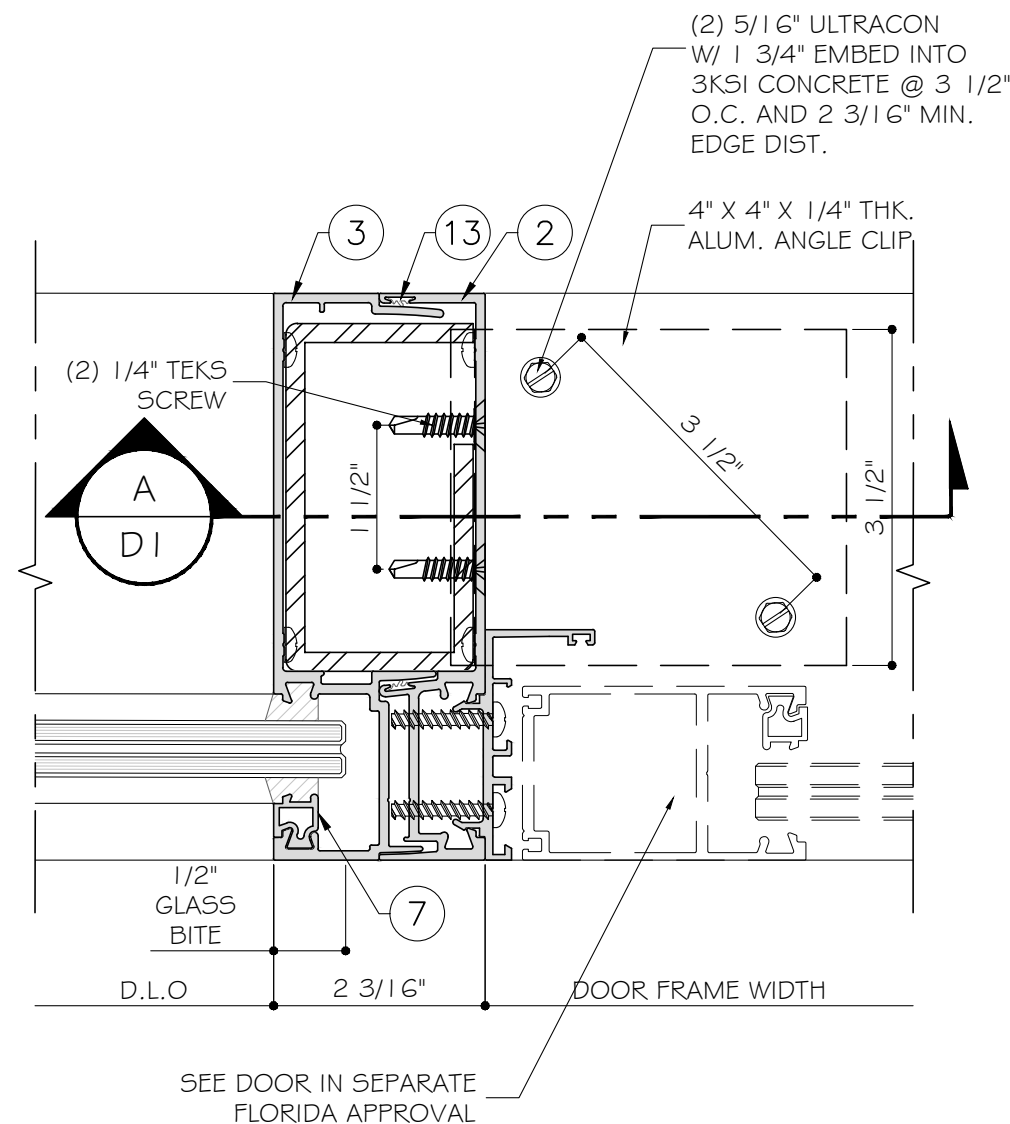
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5 OF 9



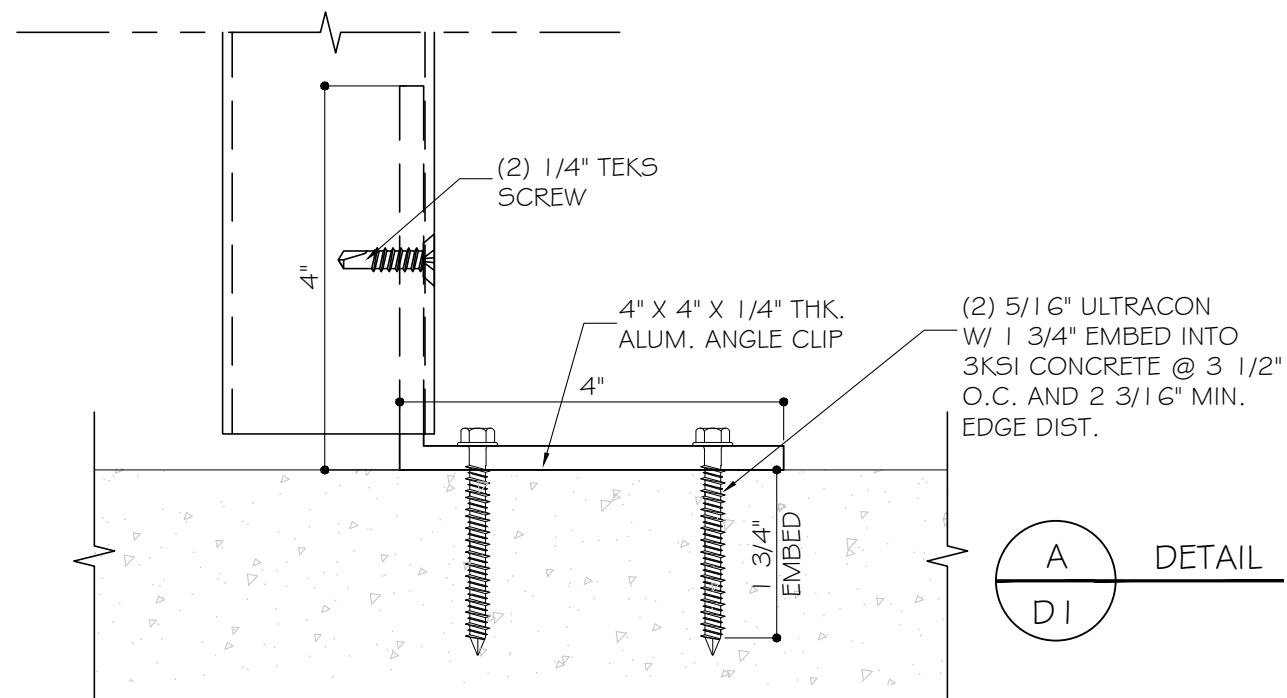
1 JAMB DETAIL
DI



2 MULLION DETAIL
DI

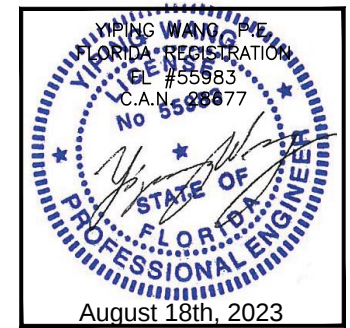


3 DETAIL
DI



A DETAIL
DI

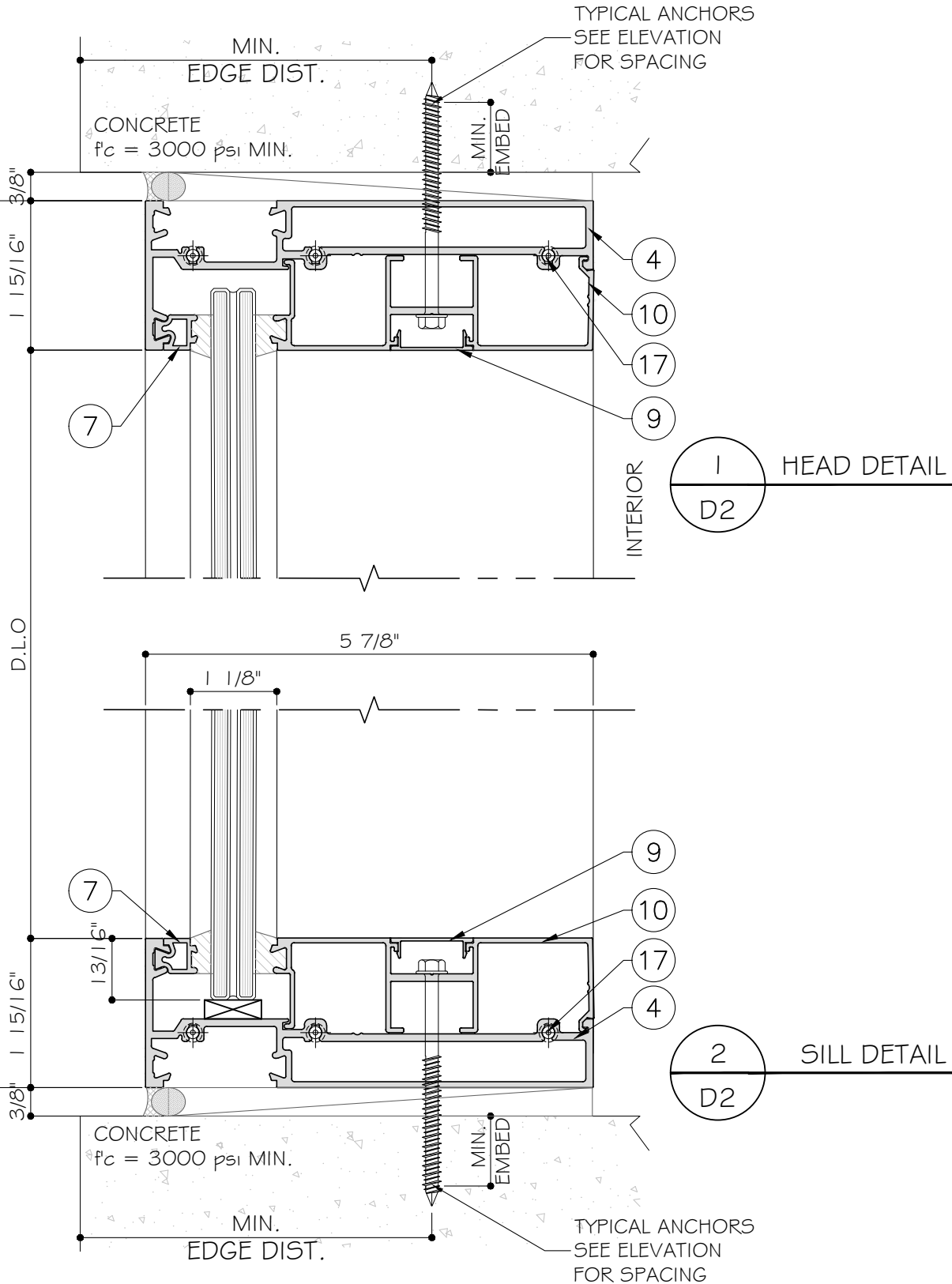
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DRAWING NO. AD19-15				
Sheet No. 6 OF 9				

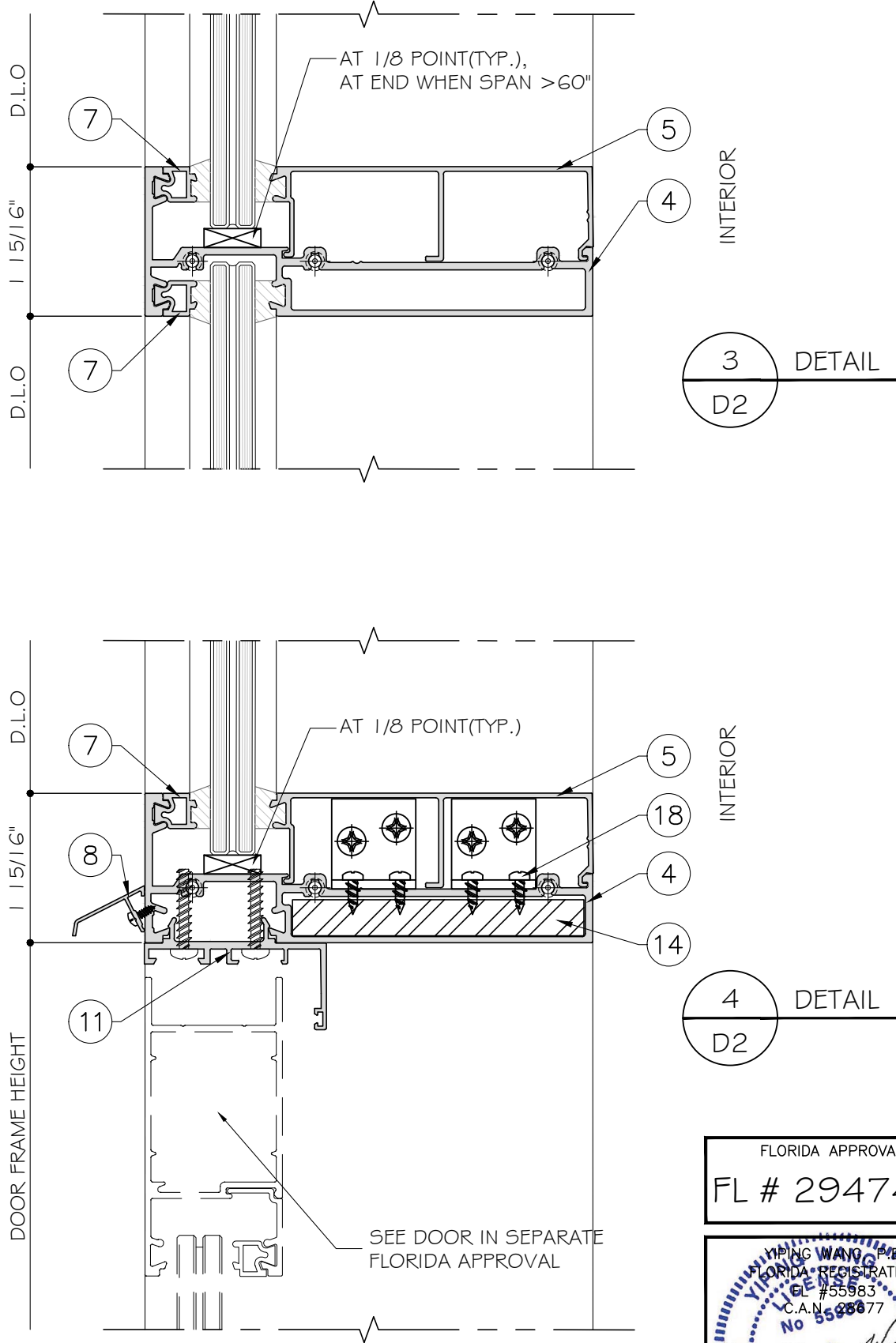
EXTERIOR

FRAME HEIGHT

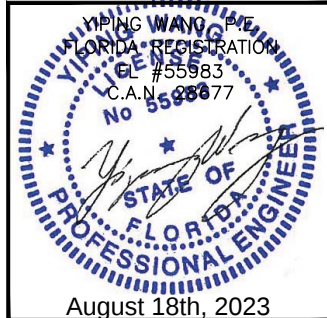


EXTERIOR

DOOR FRAME HEIGHT



FLORIDA APPROVAL:
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DRAWING NO. AD19-15			
Sheet No. 7 OF 9			

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www.MCYEngineering.com mcy@mcyengineering.com

① JAMB
SPA15001A 6063-T5

② FEMALE MULLION
SPA15002 6063-T5

③ MALE MULLION
SPA15003 6063-T5

④ HEAD/SILL/INTERMEDIATE HORIZONTAL
SPA15004 6063-T5

⑤ GLASS STOP
SPA15005 6063-T5

⑥ JAMB FILLER
SPA15007 6063-T5

⑦ POCKET FILLER
SPA10016 6063-T5

⑧ AWING CAP
SP100T003 6063-T5

⑨ SCREW COVER
SPA13006 6063-T5

⑪ SASH REBATE
SPA13006 6063-T5

⑩ GLASS STOP
SPA15015 6063-T5

FLORIDA APPROVAL:
FL # 29474.2

YIP HING WANG
PROFESSIONAL ENGINEER
FLORIDA REGISTRATION
No. 555983
C.A.N. 23877

August 18th, 2023

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03/03/2021

Drawn By

DRAWING NO.
AD19-15

PARTS

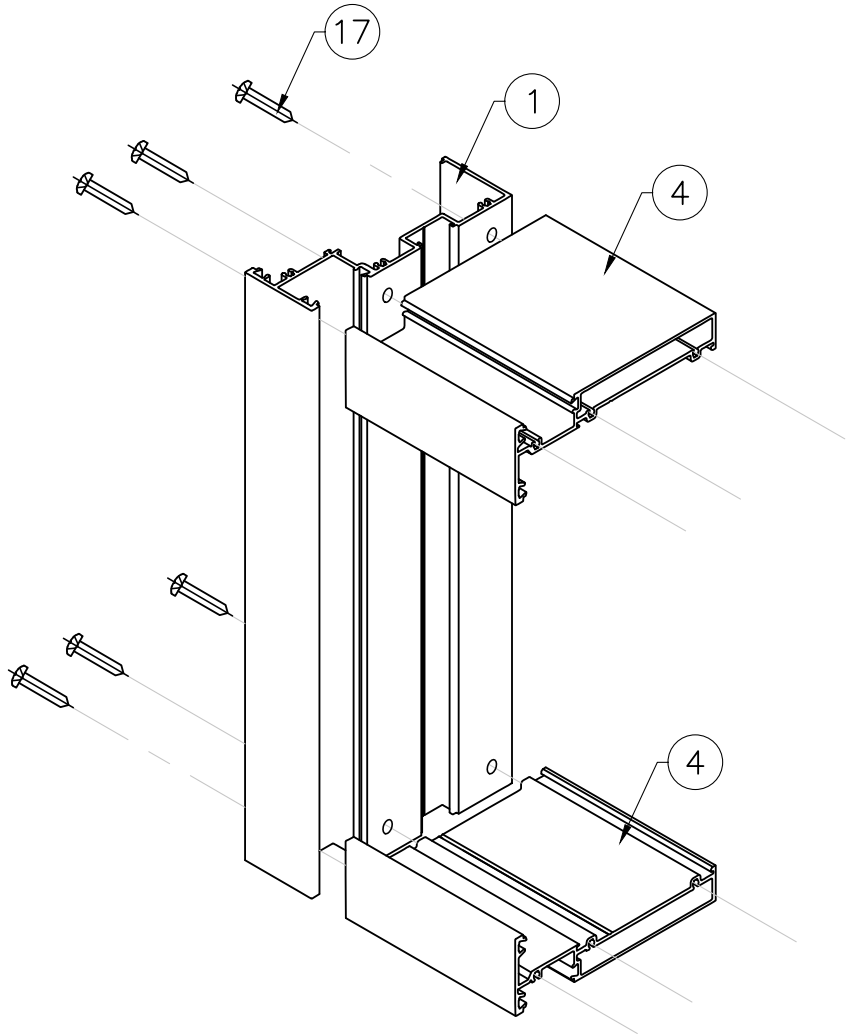
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MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027 P: 305-271-0117
www.MCYEngineering.com mcy@mcyengineering.com

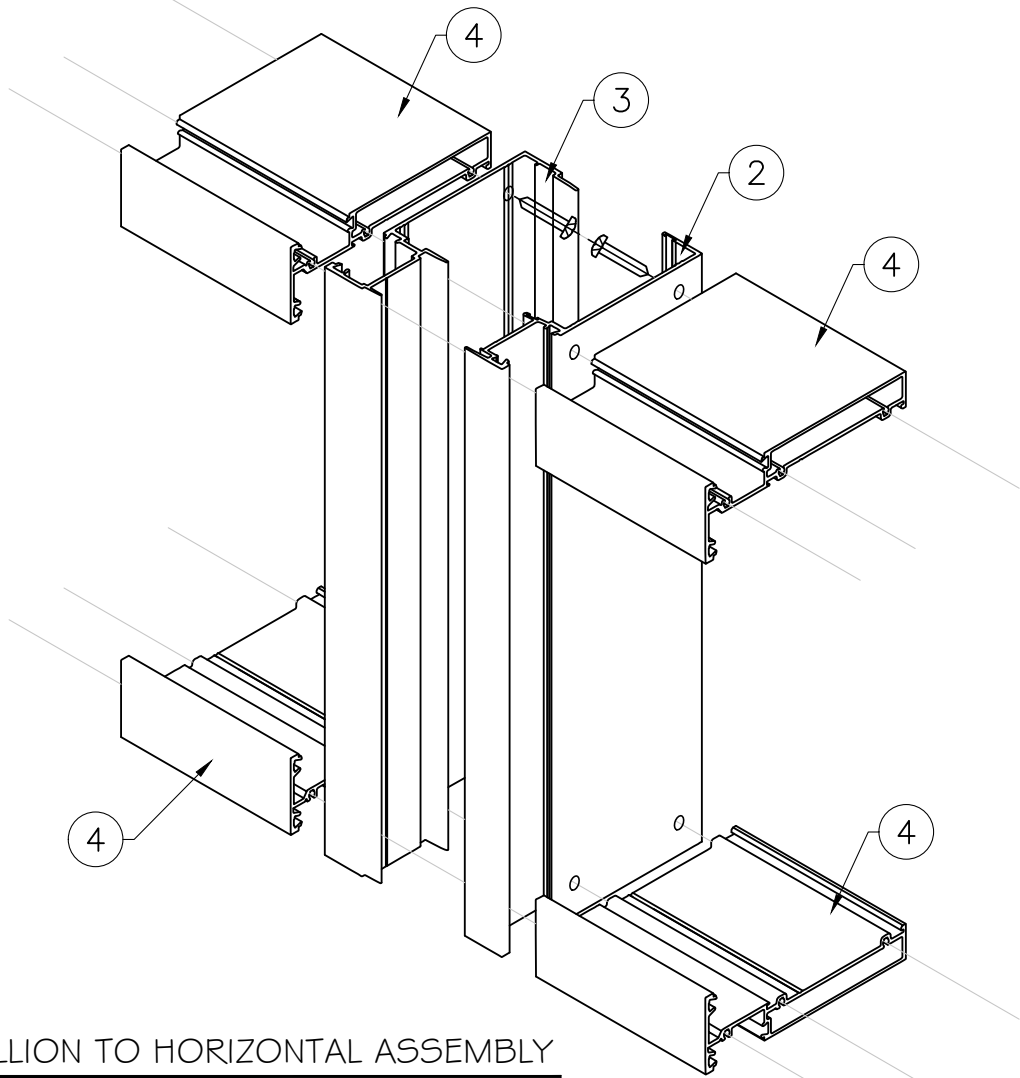
SPA150 WINDOW WALL SYSTEM - L.M.I.&S.M.I.
SHANGAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
Shanghai, China
TEL.86 021-5822 0630 CELL.86 135-8572-3609

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	SPA15001A	JAMB	ALUM. 6063-T5	-
2	SPA15002	FEMALE MULLION	ALUM. 6063-T5	-
3	SPA15003	MALE MULLION	ALUM. 6063-T5	-
4	SPA15004	HEAD / SILL / INTERMEDIATE HORIZONTAL	ALUM. 6063-T5	-
5	SPA15005	GLASS STOP	ALUM. 6063-T5	-
6	SPA15007	JAMB FILLER	ALUM. 6063-T5	-
7	SPA10016	POCKET FILLER	ALUM. 6063-T5	-
8	SP100T003	AWING CAP	ALUM. 6063-T5	-
9	SPA13006	SCREW COVER	ALUM. 6063-T5	-
10	SPA15015	GLASS STOP	ALUM. 6063-T5	-
11	SPA13006	SASH REBATE	ALUM. 6063-T5	-
12	-	GLAZING GASKET DC 983	SILICONE	DOW CORNING
13	26162	BULB GAKSET	EPDM, 70±5 SHORE	-
14	-	3.82" X 0.24" BAR REINFORCEMENT	STEEL	-
15	-	0.20" THICK U-SHAPE REINFORCEMENT	STEEL	-
16	-	SETTING BLOCK, 1/4" X 3/4"	EPDM, 80 SHORE A	-
17	-	3/16" X 1-1/2" PH SCREW	STAINLESS STEEL	-
18	-	3/16" X 1/2" PH SCREW	STAINLESS STEEL	-

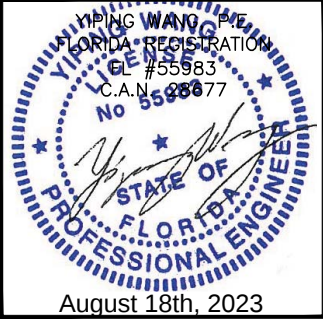


JAMB CORNER ASSEMBLY



MULLION TO HORIZONTAL ASSEMBLY

FLORIDA APPROVAL:
FL # 29474.2



MCY

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SPA150 WINDOW WALL SYSTEM - L.M.I.&S.M.I.

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Shanghai, China

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3	08.15.2023	James	UPDATE TO 2023 FBC	Rev.	Date	Drawn By	Description
2	03.04.2021	James	UPDATE TO 2020 FBC	1	04.22.2019	James	NEW APPLICATION
1	04.22.2019	James	NEW APPLICATION	1	04.22.2019	James	NEW APPLICATION

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