

SYSTEM 3811 ALUMINUM WINDOW WALL SMALL MISSILE IMPACT




GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 6TH EDITION FLORIDA BUILDING CODE (2017) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- SMALL MISSILE IMPACT WINDOW WALL TO BE USED AT ELEVATIONS 30'-0" ABOVE GRADE LEVEL. IMPACT SHUTTERS ARE REQUIRED FOR INSTALLATIONS UP TO 30'-0" OF GRADE.
- 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 6TH EDITION FLORIDA BUILDING CODE (2017) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS, LLC. 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 7-10, 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-10 STANDARD.
- STEP 2: SEE TYPICAL ELEVATION ON SHEET E1.
- STEP 3: SEE GLASS CHART ON SHEET G1 FOR DESIGN LOAD CAPACITIES OF THE GLASS TYPES BASED ON APPLICABLE WIND DURATION. SEE CAPACITY DUE TO THE SILICONE WITH RESPECT TO MULLION WIDTH ON SHEET G1 FOR CAPACITIES BASED ON SILICONE WIDTH.
- STEP 4: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5: SEE ALLOWED DOOR JAMB MULLION AND DJJ CAPACITY ON SHEETS M2 TO M5.
- STEP 6: SELECT ANCHOR TYPE ON SHEET A3 AND CHECK ANCHOR CAPACITY ON SHEET A1 & A2 FOR TYPICAL MULLION & JAMBS. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD. FOR MULLION OR JAMB SUPPORT ENTRANCE DOOR, SEE ANCHOR CAPACITIES FOR EACH CONDITION ON SHEET A4, THE MAX. REACTION ON JOB NOT TO EXCEED THE ALLOWED CAPACITIES.
- STEP 7: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4, 5 AND 6 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS	
D.L.O. - DAYLITE OPENING	☉ - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
P.W. - PANEL WIDTH	SSG - STRUCTURAL SILICONE
LG. - LONG	GLAZED
STL. - STEEL	TEMP. - TEMPERED
ALUM. - ALUMINUM	O.C. - ON CENTER
MULL. - MULLION	SECTION NUMBER
HORIZ. - HORIZONTAL	
W/ - WITH	
W/O - WITHOUT	
VERT. - VERTICAL	 SHEET NUMBER

LIMITATIONS OF USE

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


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

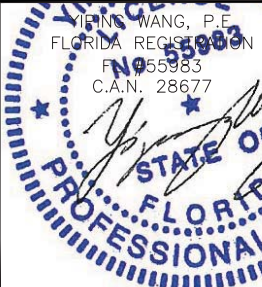
C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

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

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:





Drawn Date: 05/19/2017

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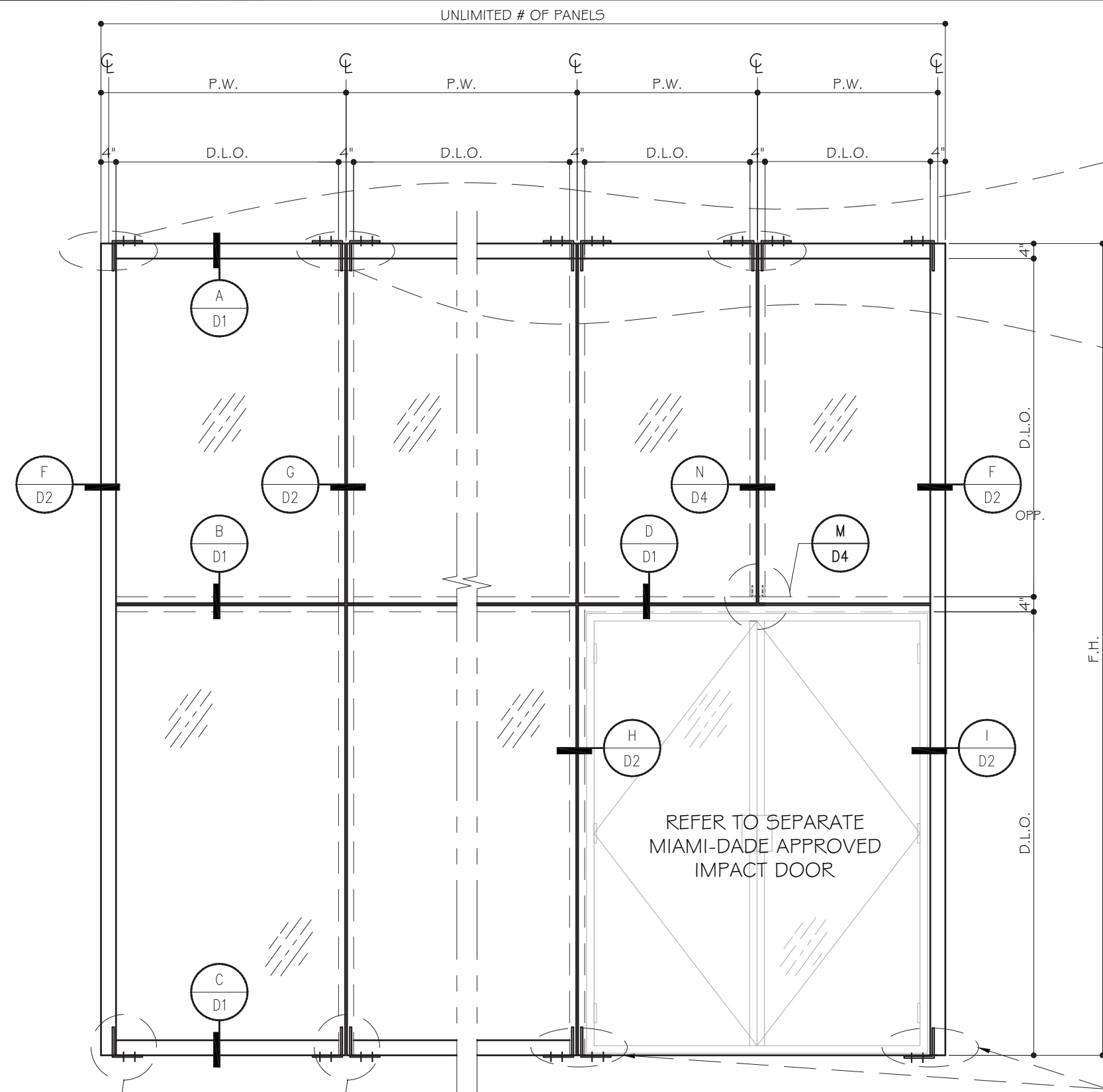
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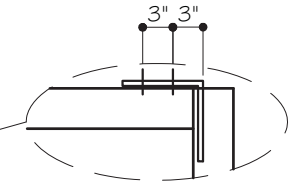
SYSTEM 3811 WINDOW WALL - S.M.I.

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

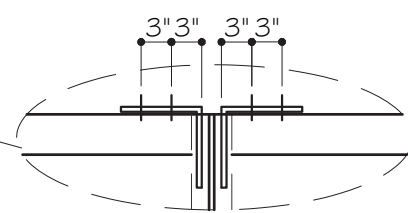

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TYPICAL MULLION & JAMB ANCHOR



JAMB ANCHOR CLIP OPTION @ HEAD/SILL



MULLION ANCHOR CLIP OPTION @ HEAD/SILL

SEE SHEETS A1 & A2 FOR ANCHOR CAPACITIES

TYPICAL EXTERIOR ELEVATION

SEE CHARTS ON SHEET M1 FOR REINFORCED AND UNREINFORCED MULLION CAPACITY
SEE CHARTS ON SHEETS M2 THRU M5 FOR DOOR JAMB MULLION CAPACITY

SEE CHARTS ON SHEETS A4 FOR DOOR JAMB MULLION ANCHOR CAPACITIES

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FLORIDA APPROVAL:
FL 7200
YI-PING WANG
Professional Engineer
No. 55983
C.A.N. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEERING

Rev. No.	Date	Drawn By	Description

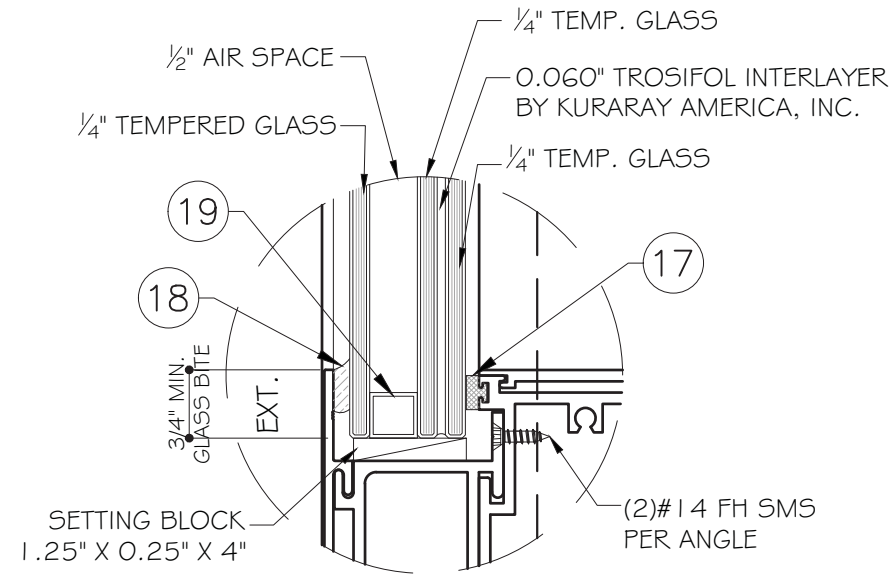
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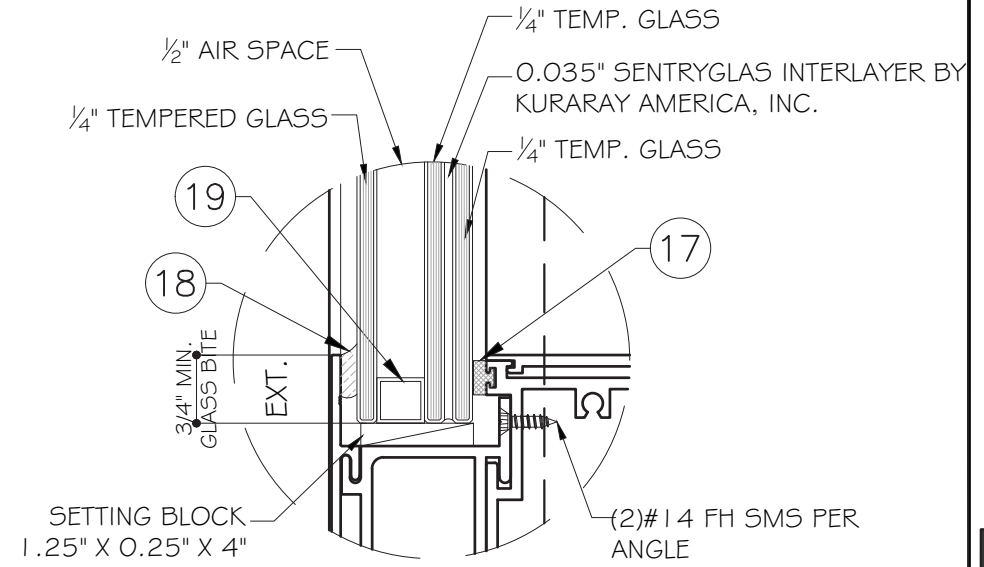
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GLASS CAPACITIES (PSF)

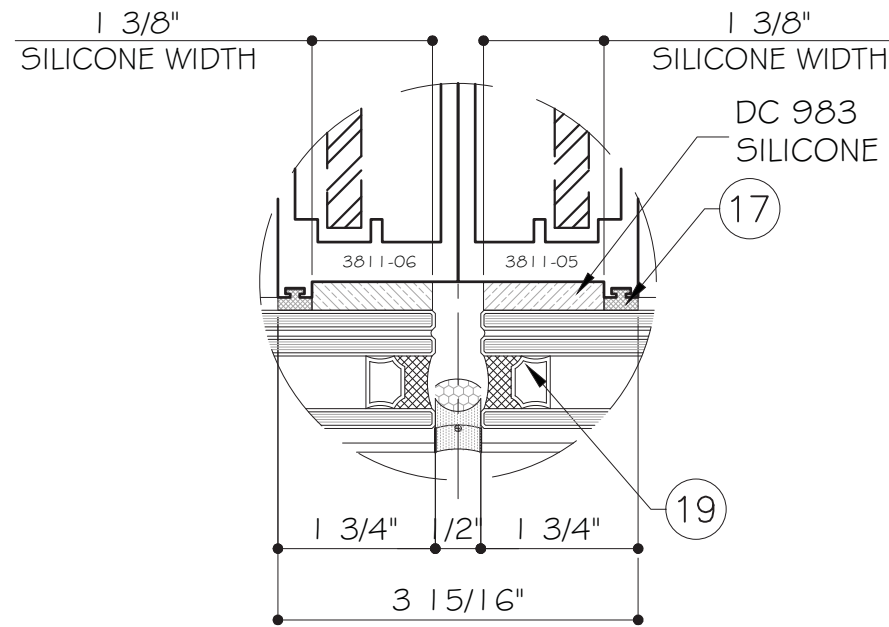
GLASS SIZE		S.M.I G2 OR G3	
D.L.O. WIDTH	D.L.O. WIDTH	(+/-PSF)	(+/-PSF)
32	92	100.0	160.0
38		100.0	160.0
44		100.0	160.0
50		100.0	160.0
32	98	100.0	160.0
38		100.0	160.0
44		100.0	160.0
50		100.0	160.0
32	104	100.0	160.0
38		100.0	160.0
44		100.0	160.0
48		100.0	160.0
26	110	100.0	160.0
32		100.0	160.0
38		100.0	160.0
44		100.0	160.0
26	116	100.0	160.0
32		100.0	160.0
38		100.0	160.0
43		100.0	160.0
26	122	100.0	160.0
32		100.0	160.0
38		100.0	160.0
41		100.0	160.0
26	128	100.0	160.0
32		100.0	160.0
38		100.0	160.0
39		100.0	160.0
26	134	100.0	160.0
32		100.0	160.0
37		100.0	160.0



GLASS TYPE 'G2'
1-5/16" NOMINAL OVERALL



GLASS TYPE 'G3'
1-5/16" NOMINAL OVERALL



MULLION C-C	CAPACITY DUE TO SILICONE WIDTH
W. (in.)	psf
36	160.0
42	160.0
48	160.0
54	146.7
60	132.0
66	120.0
72	110.0
78	101.5

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

FLORIDA APPROVAL:

 YIPING WANG, P.E.
 FLORIDA REGISTRATION NO. 55983
 C.A.N. 28677
 JANUARY 9TH, 2018

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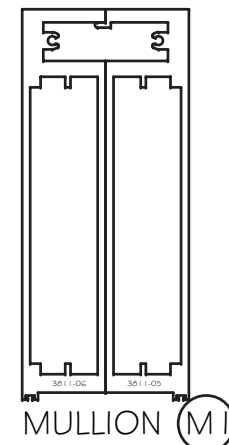
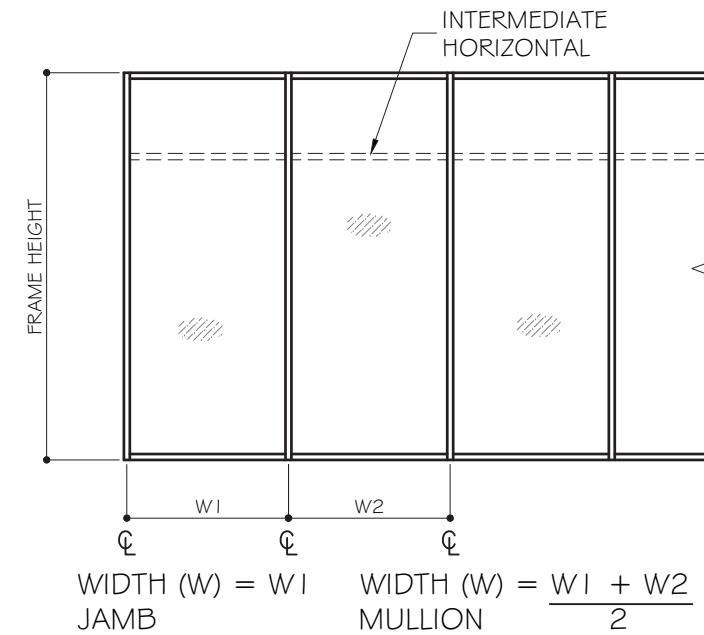
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TYPICAL MULLION & JAMB

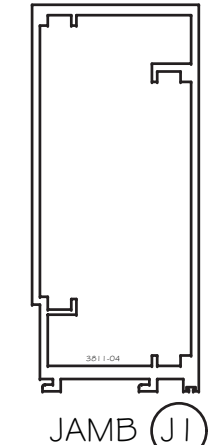
MULLION DESIGN LOAD CAPACITY - PSF				
MULLION DIMENSION		UNREINFORCED M1, J1		
FRAME WIDTH W (IN)	FRAME HEIGHT (IN)	EXT. (+)	INT. (-)	
30	120	100	150	
48		100	150	
78		100	150	
84		100	100	
96		100	100	
60	132	100	150	
66		100	150	
72		100	150	
84		100	100	
96		100	100	
54	144	100	150	
60		100	150	
66		100	150	
84		100	100	
96		100	100	
48	156	100	150	
54		100	150	
60		100	150	
84		100	100	
96		100	100	
42	168	100	150	
48		100	150	
54		100	150	
60		100	100	
72		100	100	
84	180	100	100	
90		100	100	
54		182	100	150
36			100	150
42			100	150
48	100		150	
66	100		100	
72	192	100	100	
78		100	100	
84		100	100	

MULLION DESIGN LOAD CAPACITY - PSF			
MULLION DIMENSION		UNREINFORCED M1, J1	
FRAME WIDTH (IN)	FRAME HEIGHT (IN)	EXT. (+)	INT. (-)
36	204	100	150
42		100	150
48		100	134
54		100	100
60		100	100
66		100	100
72		100	100
78		100	100
36	216	100	150
42		100	137
48		100	100
54		100	100
60		100	100
66		100	100
72		99	99
78		92	92
30	228	100	150
36		100	143
42		100	123
48		100	100
54		100	100
60		100	100
66		92	92
72		84	84
30	240	100	150
36		100	129
42		100	100
48		100	100
54		97	97
60		87	87
66		79	79
30		252	100
36	100		117
42	100		100
48	94		94
54	83		83
60	75		75
66	68		68
30	264		100
36		100	107
42		93	93
48		82	82
54		73	73
60		65	65

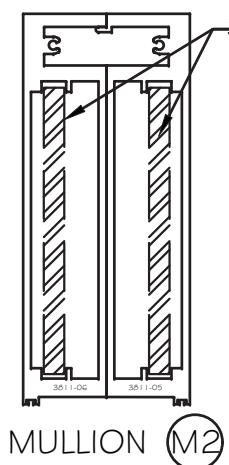
DESIGN LOAD CAPACITY - PSF			
MULLION DIMENSION		REINFORCED M2, J2	
MULLION WIDTH (IN) (W)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
54	144	100	160
60		100	160
66		100	160
72		100	160
54	156	100	160
60		100	160
66		100	160
72		100	160
48	168	100	160
54		100	160
60		100	160
66		100	160
42	180	100	160
48		100	160
54		100	160
60		100	160
42	192	100	160
48		100	160
54		100	160
60		100	160
36	204	100	160
42		100	160
48		100	160
54		100	160
36	216	100	160
42		100	160
48		100	160
48		100	160
36	228	100	160
42		100	160
48		100	160
48		100	160
36	240	100	160
42		100	160
48		100	159
48		100	159
36	252	100	160
42		100	158
36	264	100	160
42		94	138



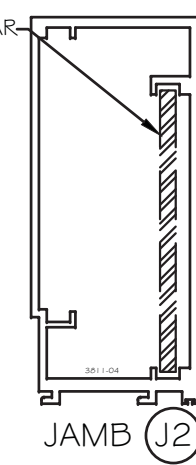
M1	Ix IN^4	Sx IN^3
3811-05	59.0220	11.7459
3811-06	58.3332	11.6804
TOTAL	117.3553	23.3548



M1	Ix IN^4	Sx IN^3
3811-04	72.0422	15.1197



M1	Ix IN^4	Sx IN^3
3811-05	59.0220	11.7459
3811-06	58.3332	11.6804
STEEL	55.7429	(IN ALUM.)
TOTAL	173.093	



M1	Ix IN^4	Sx IN^3
3811-04	72.0422	15.1197
STEEL	27.8714	(IN ALUM.)
TOTAL	99.9136	

FLORIDA APPROVAL:

YIPING WANG
 PROFESSIONAL ENGINEER
 LICENSE NO. 55983
 STATE OF FLORIDA

YIPING WANG, P.E.
 FLORIDA REGISTRATION NO. 55983
 C.A.N. 28677

JANUARY 9TH, 2018

MCY ENGINEERING, INC.
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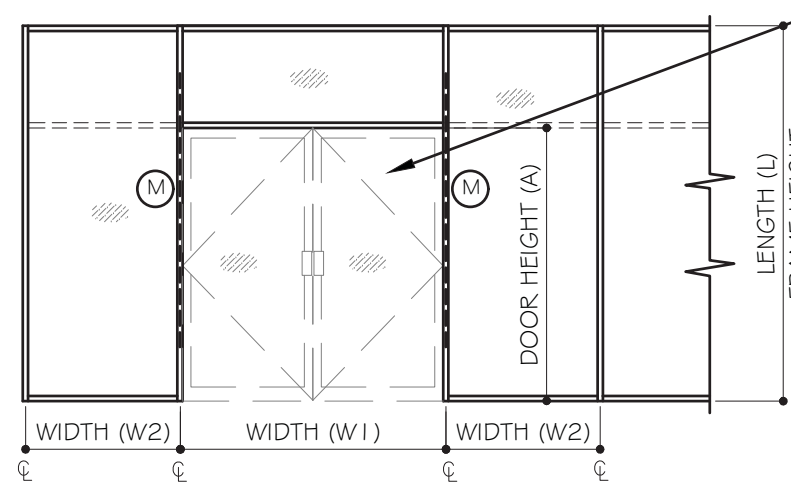
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DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
192	84	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	100.0	100.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		96	60	100.0	100.0
			66	100.0	100.0
			72	97.0	97.0
			78	93.0	93.0
204	84	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	97.0	97.0
			78	93.0	93.0
		96	60	99.0	99.0
			66	94.0	94.0
			72	91.0	91.0
			78	87.0	87.0
216	84	72	60	100.0	100.0
			66	100.0	100.0
			72	98.0	98.0
			78	93.0	93.0
		84	60	99.0	99.0
			66	95.0	95.0
			72	91.0	91.0
			78	87.0	87.0
		96	48	96.0	96.0
			54	93.0	93.0
			60	90.0	90.0
			66	87.0	87.0

DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
228	84	72	60	96.0	96.0
			66	93.0	93.0
			72	89.0	89.0
			78	86.0	86.0
		84	48	94.0	94.0
			54	90.0	90.0
			60	87.0	87.0
			66	84.0	84.0
		96	48	85.0	85.0
			54	82.0	82.0
			60	80.0	80.0
			66	77.0	77.0
240	84	72	48	93.0	93.0
			54	89.0	89.0
			60	86.0	86.0
			66	83.0	83.0
		84	48	83.0	83.0
			54	80.0	80.0
			60	78.0	78.0
			66	75.0	75.0
		96	48	76.0	76.0
			54	73.0	73.0
			60	70.0	70.0
			66	67.0	67.0



REFER TO SEPARATE MIAMI-DADE APPROVED IMPACT DOOR

FLORIDA APPROVAL:

FL 2008

YIPING WANG

YIPING WANG, P.E.

FLORIDA REGISTRATION NO. 55983

C.A.N. 28677

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Rev. No.	Date	Drawn By	Description

Draw Date: 05/19/2017

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M2

Sheet No. 5 OF 19

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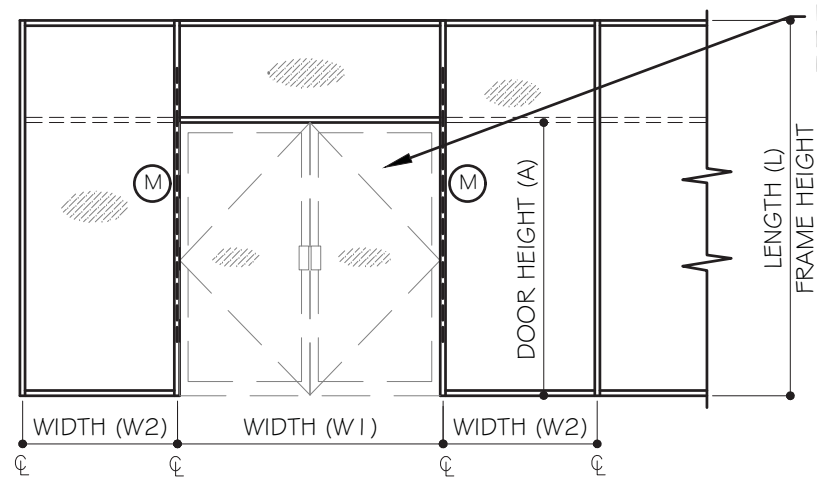
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JANUARY 9TH, 2018

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WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
192	96	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	100.0	100.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		96	60	100.0	100.0
			66	100.0	100.0
			72	99.0	99.0
			78	95.0	95.0
204	96	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	99.0	99.0
			78	94.0	94.0
		96	60	100.0	100.0
			66	96.0	96.0
			72	92.0	92.0
			78	89.0	89.0
216	96	72	60	100.0	100.0
			66	100.0	100.0
			72	99.0	99.0
			78	95.0	95.0
		84	60	100.0	100.0
			66	97.0	97.0
			72	92.0	92.0
			78	88.0	88.0
		96	48	100.0	100.0
			54	97.0	97.0
			60	94.0	94.0
			66	90.0	90.0

DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
228	96	72	54	100.0	100.0
			60	99.0	99.0
			66	96.0	96.0
			72	92.0	92.0
		84	48	97.0	97.0
			54	94.0	94.0
			60	90.0	90.0
			66	87.0	87.0
		96	48	88.0	88.0
			54	85.0	85.0
			60	83.0	83.0
			66	84.0	84.0
240	96	72	48	96.0	96.0
			54	92.0	92.0
			60	88.0	88.0
			66	85.0	85.0
		84	48	86.0	86.0
			54	83.0	83.0
			60	80.0	80.0
			66	78.0	78.0
		96	48	79.0	79.0
			54	76.0	76.0
			60	79.0	79.0
			66	78.0	78.0



REFER TO SEPARATE MIAMI-DADE APPROVED IMPACT DOOR

FLORIDA APPROVAL:

FL 2008

YIEN WANG

YIEN WANG, P.E.

FLORIDA REGISTRATION NO. 55983

C.A.N. 28677

STATE OF FLORIDA

PROFESSIONAL ENGINEER

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 Ave. Ste. 205A P: 305.271.0117
MIAMI, FL 33183 F: 205.279.6818

www.MCYEngineering.com MCY.Engineering@AII.net

SYSTEM 3811 WINDOW WALL - S.M.I.

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

Rev. No.	Date	Drawn By	Description

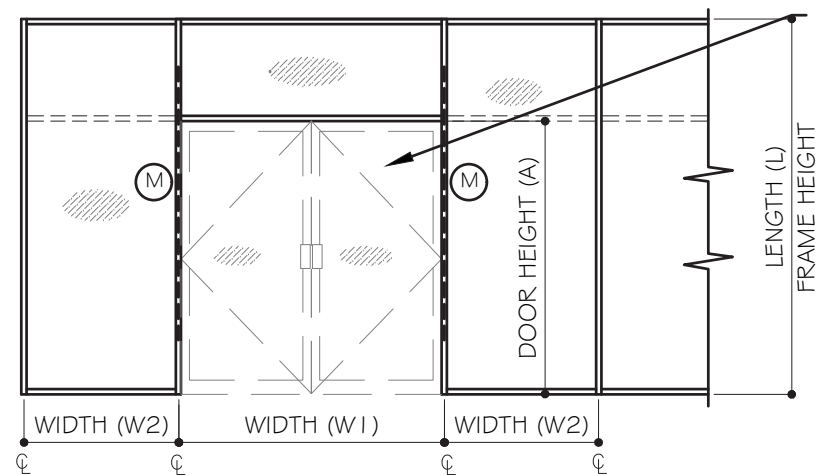
Draw Date: 05/19/07 Scale: DRAWING NO. 17-27

Sheet No. M3 6 OF 19

JANUARY 9TH, 2018

DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
192	108	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	100.0	100.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		96	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	97.0	97.0
204	108	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	96.0	96.0
		96	60	100.0	100.0
			66	98.0	98.0
			72	94.0	94.0
			78	90.0	90.0
216	108	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	96.0	96.0
		84	60	100.0	100.0
			66	98.0	98.0
			72	94.0	94.0
			78	90.0	90.0
		96	48	100.0	100.0
			54	100.0	100.0
			60	96.0	96.0
			66	92.0	92.0

DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
228	108	72	60	100.0	100.0
			66	99.0	99.0
			72	95.0	95.0
			78	90.0	90.0
		84	48	100.0	97.0
			54	97.0	94.0
			60	94.0	90.0
			66	90.0	87.0
		96	48	92.0	84.0
			54	89.0	89.0
			60	86.0	86.0
			66	83.0	83.0
240	108	72	48	99.0	99.0
			54	95.0	95.0
			60	91.0	91.0
			66	88.0	88.0
		84	48	90.0	84.0
			54	86.0	81.0
			60	83.0	81.0
			66	80.0	80.0
		96	48	82.0	79.0
			54	79.0	79.0
			60	79.0	79.0
			66	79.0	79.0



REFER TO SEPARATE MIAMI-DADE APPROVED IMPACT DOOR

FLORIDA APPROVAL:

FL 7200

YIPING WANG

YIPING WANG, P.E.

FLORIDA REGISTRATION NO. 55983

C.A.N. 28677

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Rev. No.	Date	Drawn By	Description

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Sheet No. 7 OF 19

MCY ENGINEERING, INC.
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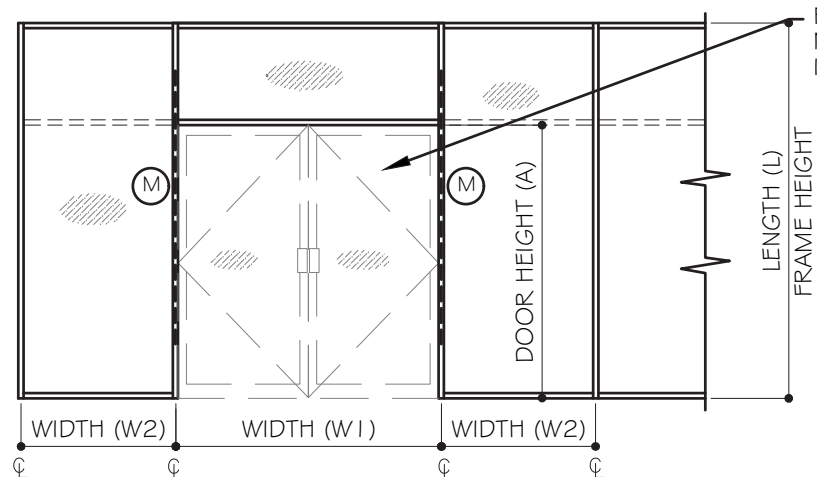
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JANUARY 9TH, 2018

DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
192	120	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	100.0	100.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		96	60	100.0	100.0
			66	100.0	100.0
			72	99.0	99.0
			78	95.0	95.0
204	120	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	99.0	99.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	97.0	97.0
		96	60	100.0	100.0
			66	98.0	98.0
			72	94.0	94.0
			78	91.0	91.0
216	120	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	98.0	98.0
		84	60	100.0	100.0
			66	100.0	100.0
			72	96.0	96.0
			78	91.0	91.0
		96	48	100.0	100.0
			54	100.0	100.0
			60	98.0	98.0
			66	94.0	94.0

DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
228	120	72	60	100.0	100.0
			66	100.0	100.0
			72	96.0	96.0
			78	92.0	92.0
		84	54	100.0	100.0
			60	97.0	97.0
			66	93.0	93.0
			72	90.0	90.0
		96	48	96.0	96.0
			54	93.0	93.0
			60	89.0	89.0
			66	86.0	86.0
240	120	72	48	100.0	100.0
			54	98.0	98.0
			60	94.0	94.0
			66	90.0	90.0
		84	48	87.0	87.0
			54	83.0	83.0
			60	80.0	80.0
			66	77.0	77.0
		96	48	93.0	93.0
			54	89.0	89.0
			60	86.0	86.0
			66	83.0	83.0
96	48	85.0	85.0		
	54	82.0	82.0		
	60	79.0	79.0		
	66	76.0	76.0		



REFER TO SEPARATE MIAMI-DADE APPROVED IMPACT DOOR

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FL 7200

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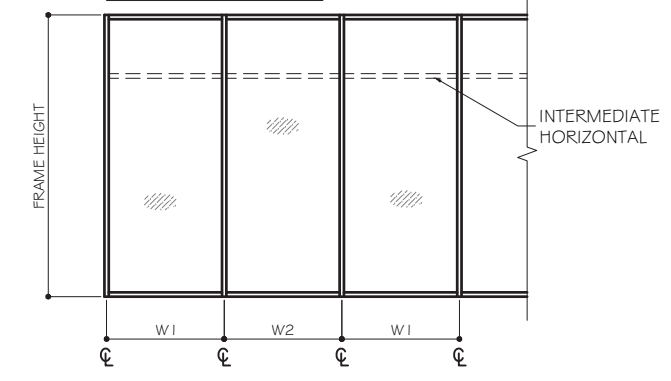
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ANCHORS DESIGN LOAD CAPACITY - PSF

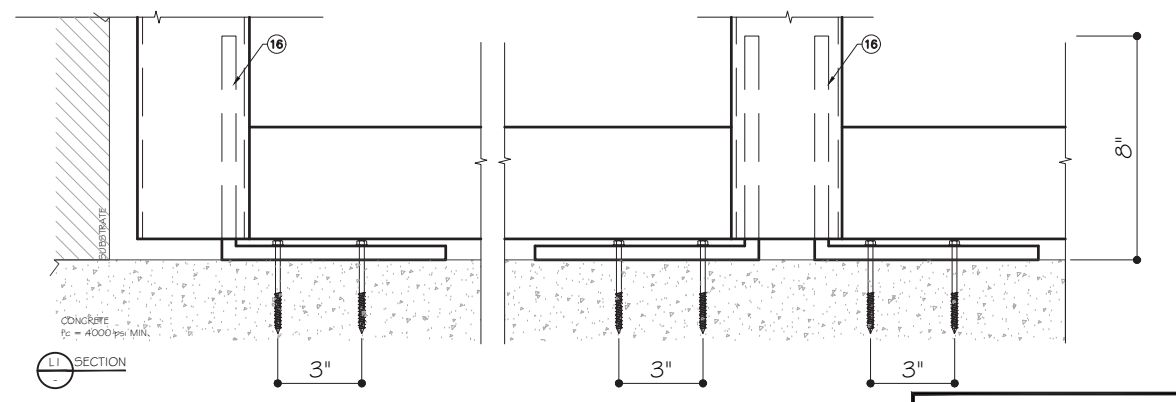
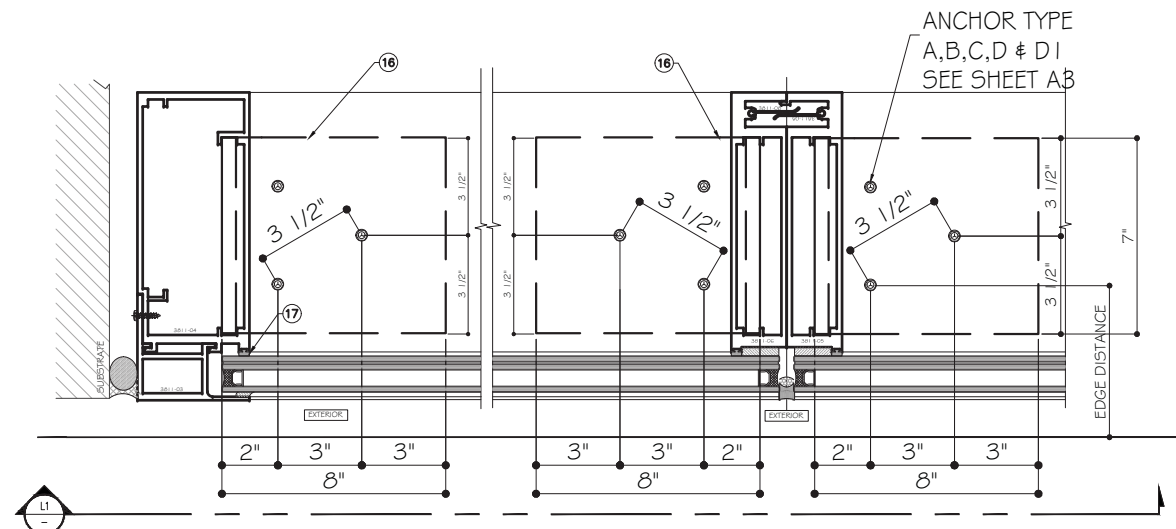
MULLION DIMENSION		3" MIN. EDGE DIST.			4 1/2" MIN. EDGE DIST.			3/4" MIN. EDGE DIST.	
FRAME WIDTH (IN) (W)	FRAME HEIGHT (IN)	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE D	ANCHOR TYPE D I
54	120	160	160	160	160	160	160	160	160
60		139	160	160	160	160	160	160	160
66		126	139	160	160	160	160	160	160
72		116	128	160	146	160	160	160	160
78		107	118	140	135	160	160	144	160
84		99	109	130	125	160	160	134	160
90		92	102	121	117	140	160	125	160
96		87	96	113	110	131	160	117	160
54	132	140	160	160	160	160	160	160	160
60		126	139	160	160	160	160	160	160
66		115	127	160	145	160	160	160	160
72		105	116	138	133	160	160	142	160
78		97	107	127	123	147	160	131	160
84		90	99	118	114	136	160	122	160
90		84	93	110	106	127	160	114	160
96		79	87	103	100	119	160	106	160
54	144	128	142	160	160	160	160	160	160
60		116	128	160	146	160	160	160	160
66		105	116	138	133	160	160	142	160
72		96	106	126	122	146	160	130	160
78		89	98	116	112	134	160	120	160
84		83	91	108	104	125	160	112	160
90		77	85	101	97	117	160	104	160
96		72	80	95	91	109	143	98	146
54	156	119	131	160	160	160	160	160	160
60		107	118	140	135	160	160	144	160
66		97	107	127	123	147	160	131	160
72		89	98	116	112	134	160	120	160
78		82	91	107	104	124	160	111	160
84		76	84	100	96	115	160	103	160
90		71	79	93	90	108	140	96	144
96		67	74	87	84	101	132	90	135
54	168	110	122	144	139	160	160	149	160
60		99	109	130	125	160	160	134	160
66		90	99	118	114	136	160	122	160
72		83	91	108	104	125	160	112	160
78		76	84	100	96	115	160	103	160
84		71	78	93	90	107	140	96	144
90		66	73	86	84	100	130	89	134
96		62	68	81	78	94	122	84	126
54	180	103	113	134	130	160	160	139	160
60		92	102	121	117	140	160	125	160
66		84	93	110	106	127	160	114	160
72		77	85	101	97	117	160	104	160
78		71	79	93	90	108	140	96	144
84		66	73	86	84	100	130	89	134
90		62	68	81	78	93	122	83	125

CHART CONTINUE ON SHEET A2

TYPICAL MULLION



MULLION TRIB. WIDTH: $W = \frac{w1 + w2}{2}$



ANCHOR LAYOUT FOR TYPICAL MULLION & JAMB

NOTE: SEE ANCHOR TYPE ON SHEET A3

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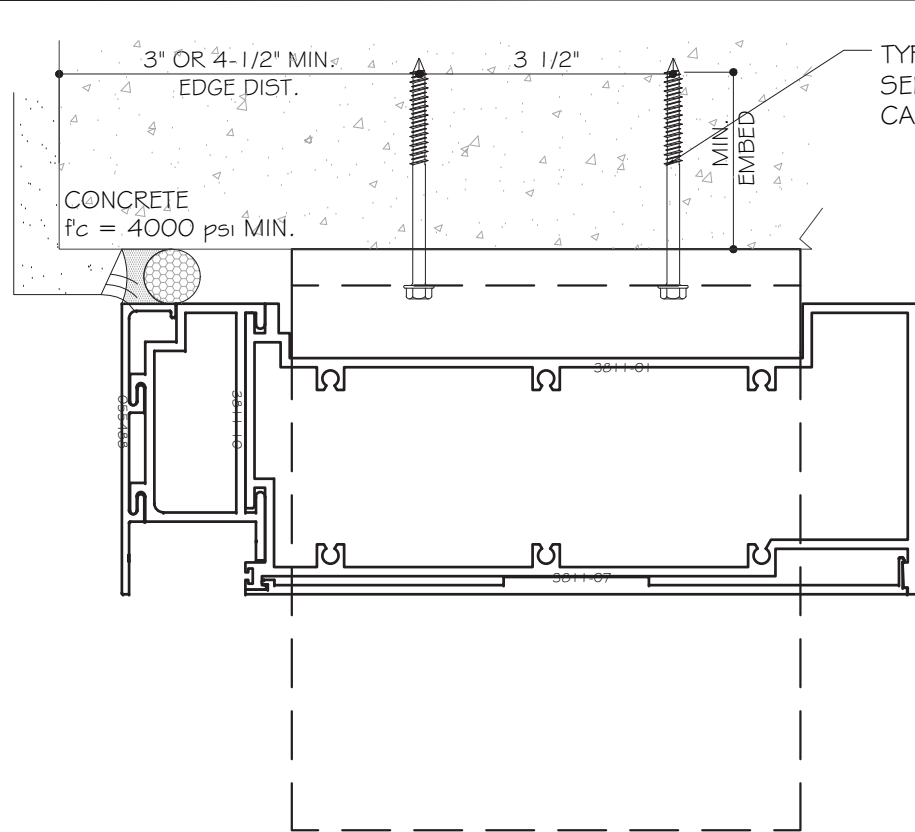
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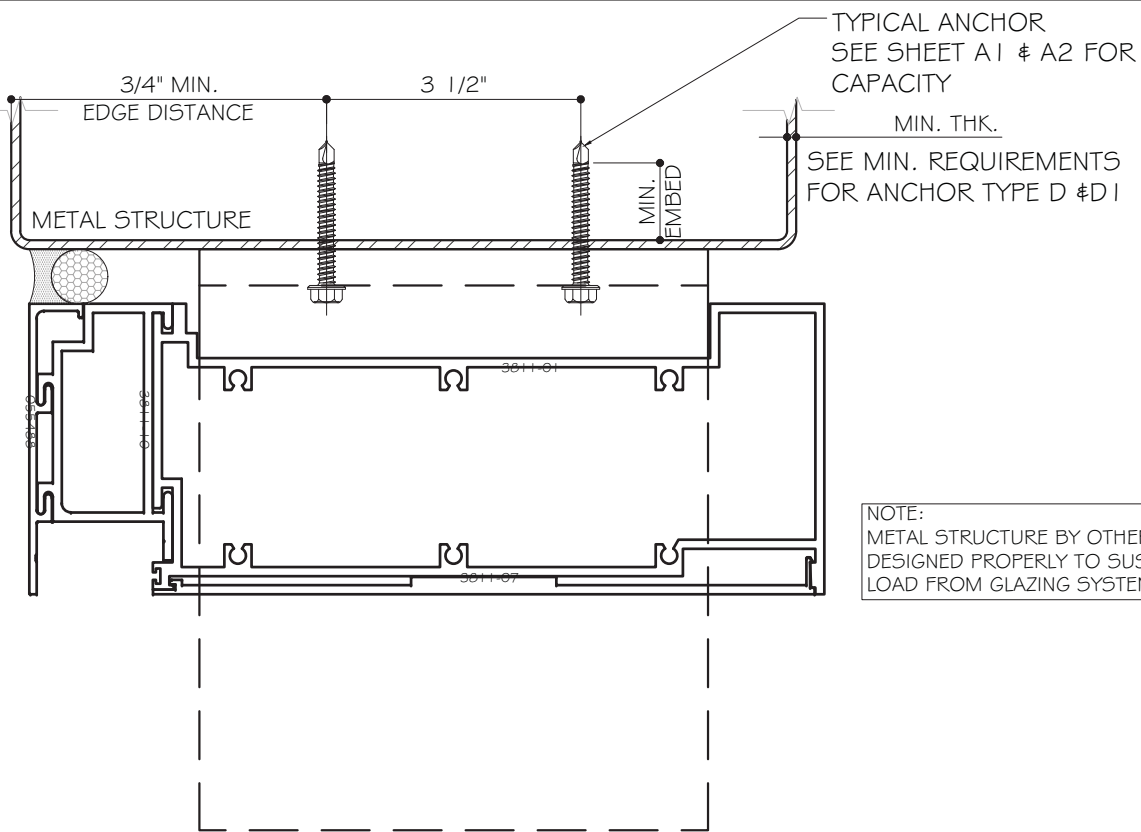
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 Drawing No. 17-27
 Sheet No. 9 OF 19

JANUARY 9TH, 2018



TYPICAL ANCHOR
SEE SHEET A1 & A2 FOR
CAPACITY



TYPICAL ANCHOR
SEE SHEET A1 & A2 FOR
CAPACITY

MIN. THK.
SEE MIN. REQUIREMENTS
FOR ANCHOR TYPE D & D1

NOTE:
METAL STRUCTURE BY OTHERS TO BE
DESIGNED PROPERLY TO SUSTAIN THE
LOAD FROM GLAZING SYSTEM.

TYPICAL ANCHORS AT HEAD/SILL:

TYPE "A": 3/8" DIA. SCREW-BOLT + ($F_u = 92.5$ KSI, $F_y = 80$ KSI)
1-1/2" MIN. EMBED DIRECTLY INTO $f_c=4$ KSI MIN. CONCRETE
@ 3 1/2" MIN. O.C.

TYPE "B": 3/8" DIA. SCREW-BOLT + ($F_u = 92.5$ KSI, $F_y = 80$ KSI)
2" MIN. EMBED DIRECTLY INTO $f_c=4$ KSI MIN. CONCRETE
@ 3 1/2" MIN. O.C.

TYPE "C": 3/8" DIA. SCREW-BOLT + ($F_u = 92.5$ KSI, $F_y = 80$ KSI)
3 1/4" MIN. EMBED DIRECTLY INTO $f_c=4$ KSI MIN. CONCRETE
@ 3 1/2" MIN. O.C.

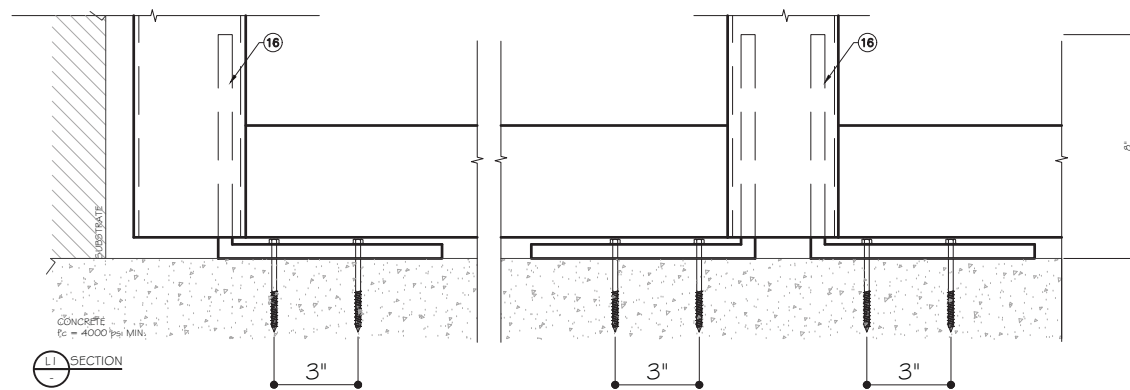
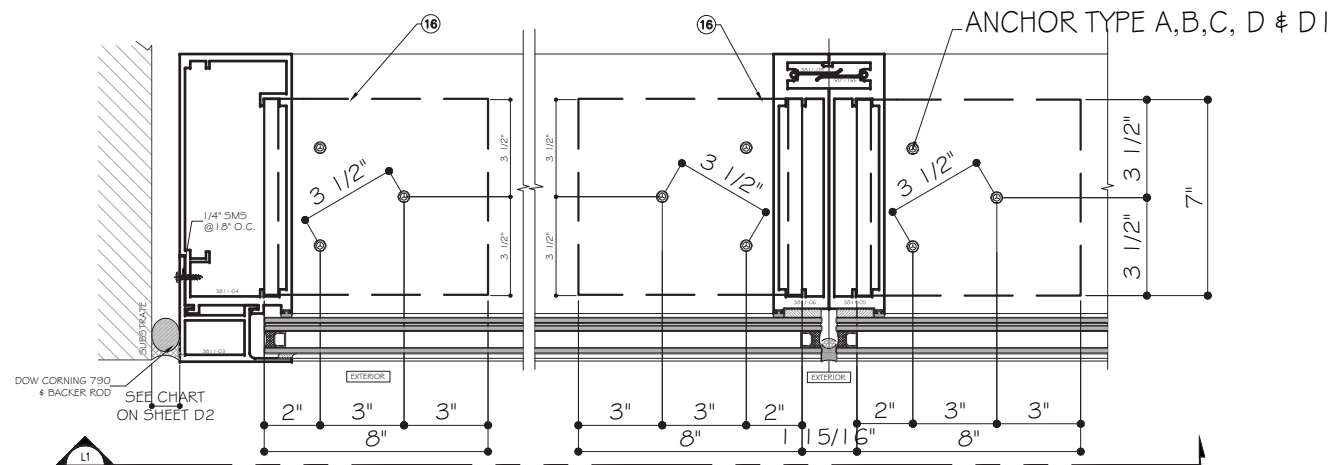
TYPE "D": 5/16" DIA. TEKS ($F_u = 92$ KSI, $F_y = 120$ KSI)
INTO 1/8" MIN. THK. ALUMINUM STRUCTURE (6063-T6)
@ 3 1/2" O.C.
3/4" MIN. EDGE DISTANCE.

TYPE "D1": 5/16" DIA. TEKS ($F_u = 92$ KSI, $F_y = 120$ KSI)
INTO 3/16" MIN. THK. ALUMINUM STRUCTURE (6063-T6)
OR 1/8" MIN. THK. STEEL
@ 3 1/2" O.C.
3/4" MIN. EDGE DISTANCE.

TYPE "E": 5/16" DIA. ELCO ULTRACON ($F_u = 177$ KSI, $F_y = 155$ KSI)
2" EMBED DIRECTLY INTO CONCRETE $f_c=4$ KSI MIN.
3 1/2" O.C.
3" MIN. EDGE DISTANCE. @ DOOR JAMB MULLION
DOOR SIDE ONLY

EDGE DISTANCE:

ANCHOR TYPE A, B & C
3" MIN. EDGE DIST. OR 4 1/2" MIN. EDGE DIST.
SEE SHEET A1 & A2 FOR CAPACITY.



-SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER
GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH
SILICONE SEALANT.

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FLORIDA APPROVAL:

FL 17202

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JANUARY 9TH, 2018

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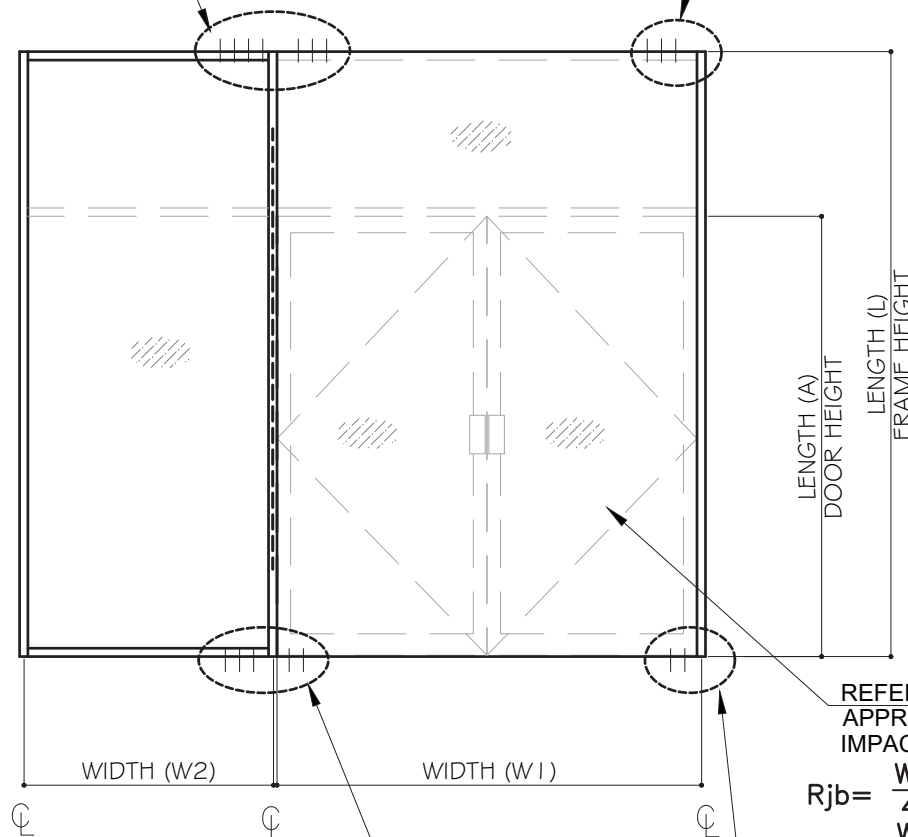
Sheet No. 12 OF 19

ANCHORS TYPE	MIN. EDGE DIST.	NUMBER OF ANCHORS AT DJM	ALLOW. MAX. REACTION (LBF)
A	3"	6	3468
B		6	3828
C		6	4538
A	4 1/2"	6	4386
B		6	5244
C		6	6846
D	3/4"	6	4686
D1		6	7032

$$R_{wt} = \left(\frac{W1}{4} + \frac{W2}{2} \right) * \frac{L}{2} * W_n + \frac{W1}{4} * \frac{L}{2} * W_n * \frac{A}{L}$$

ANCHORS TYPE	MIN. EDGE DIST.	NUMBER OF ANCHORS AT DJJ	ALLOW. MAX. REACTION (LBF)
A	3"	3	1734
B		3	1914
C		3	2269
A	4 1/2"	3	2193
B		3	2622
C		3	3423
D	3/4"	3	2343
D1		3	3516

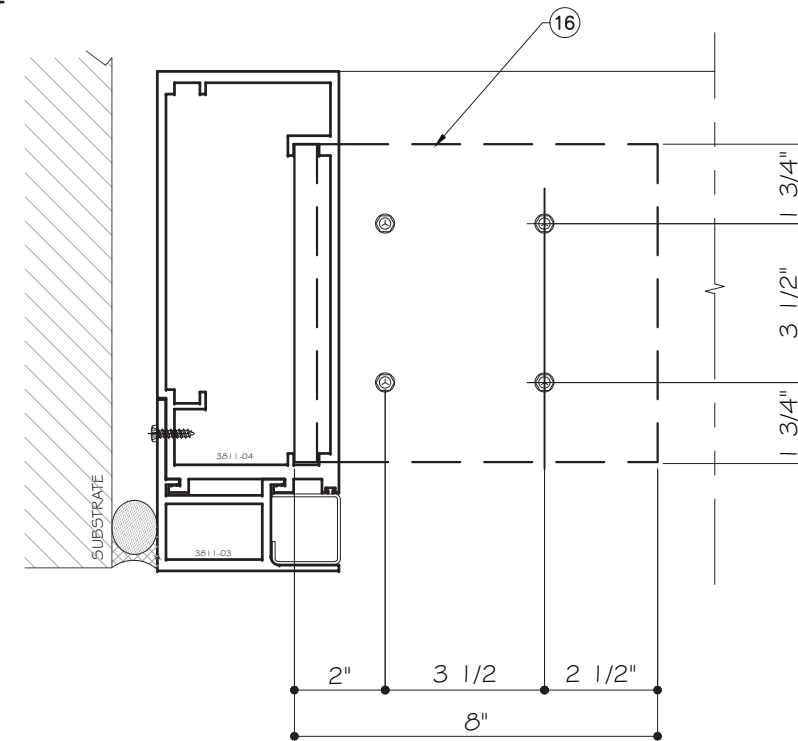
$$R_{jt} = \frac{W1}{4} * \frac{L}{2} * W_n + \frac{W1}{4} * \frac{L}{2} * W_n * \frac{A}{L}$$



$$R_{wb} = \left(\frac{W1}{4} + \frac{W2}{2} \right) * \frac{L}{2} * W_n + \frac{W1}{4} * \frac{L}{2} * W_n * \frac{(L-A)}{L}$$

REFER TO SEPARATE APPROVAL FOR IMPACT DOOR

$$R_{jb} = \frac{W1}{4} * \frac{L}{2} * W_n + \frac{W1}{4} * \frac{L}{2} * W_n * \frac{(L-A)}{L}$$



** ANCHOR LAYOUT FOR DJJ WITH (4) ANCHORS

(3) ANCHORS @ WINDOW W SIDE	MIN. EDGE DIST.	(3) ANCHORS @ DOOR SIDE	MIN. EDGE DIST.	ALLOW. MAX. REACTION (LBF)
A	3"	E	3"	3642
B		E	3"	3822
C		E	3"	4177
A	4 1/2"	E	3"	4101
B		E	3"	4530
C		E	3"	5331

ANCHORS TYPE	MIN. EDGE DIST.	NUMBER OF ANCHORS AT DJJ	ALLOW. MAX. REACTION (LBF)
E	3"	3	1908
E		4	2545

**

FLORIDA APPROVAL:

FL 2008

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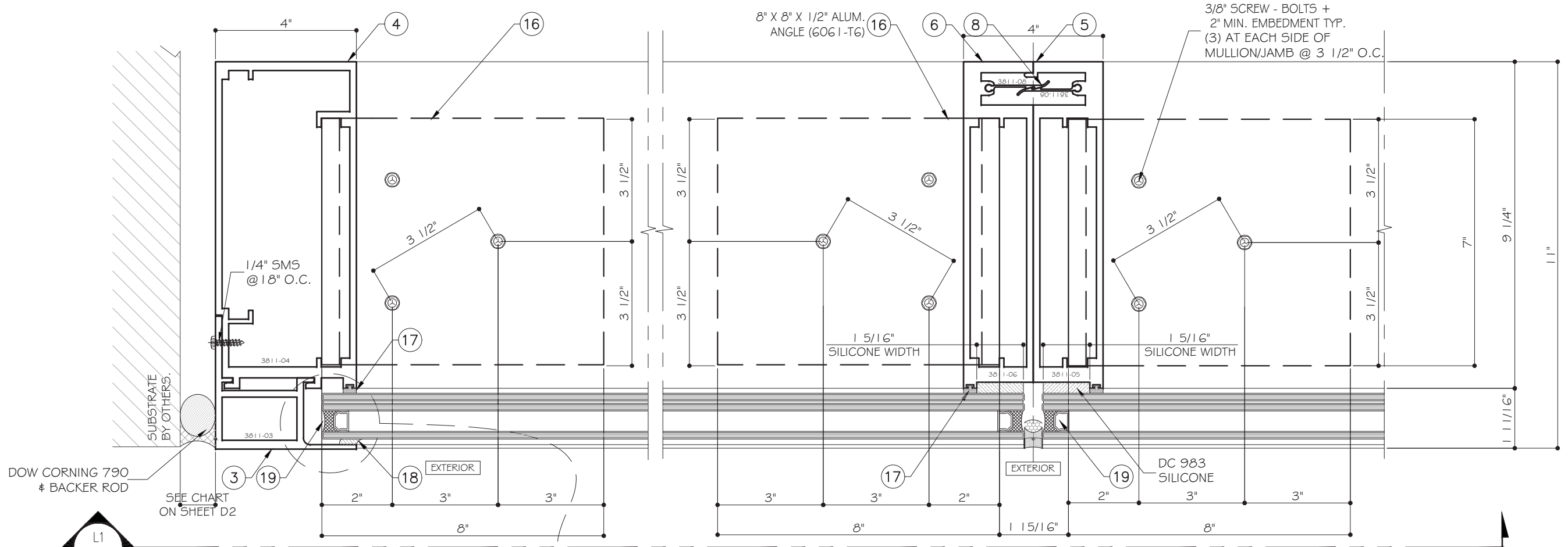
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DOOR JAMB MULLION ANCHOR CAPACITIES

JANUARY 9TH, 2018



DOW CORNING 790
BACKER ROD

SUBSTRATE
BY OTHERS.

SEE CHART
ON SHEET D2

1/4" SMS
@ 18" O.C.

8" X 8" X 1/2" ALUM.
ANGLE (6061-T6)

3/8" SCREW - BOLTS +
2" MIN. EMBEDMENT TYP.
(3) AT EACH SIDE OF
MULLION/JAMB @ 3 1/2" O.C.

1 5/16"
SILICONE WIDTH

1 5/16"
SILICONE WIDTH

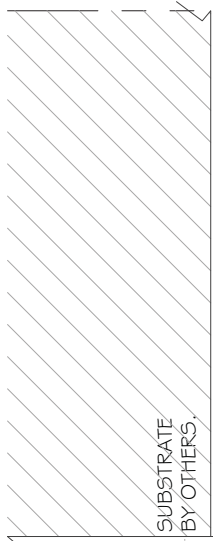
DC 983
SILICONE

GLASS TYPES ARE INTERCHANGEABLE.
SEE SHEET G1 FOR GLASS OPTIONS.

L1
D3

L
D3

K
D3



SUBSTRATE
BY OTHERS.

CONCRETE
f_c = 3000 psi MIN.

L1
D3

3/8" SCREW-BOLTS+
(3) AT EACH SIDE OF
MULLION/JAMB @ 3" O.C.

3/8" SCREW-BOLTS+
(3) AT EACH SIDE OF
MULLION/JAMB @ 3" O.C.

FLORIDA APPROVAL:

FL 17202

YIPING WANG

YIPING WANG, P.E.

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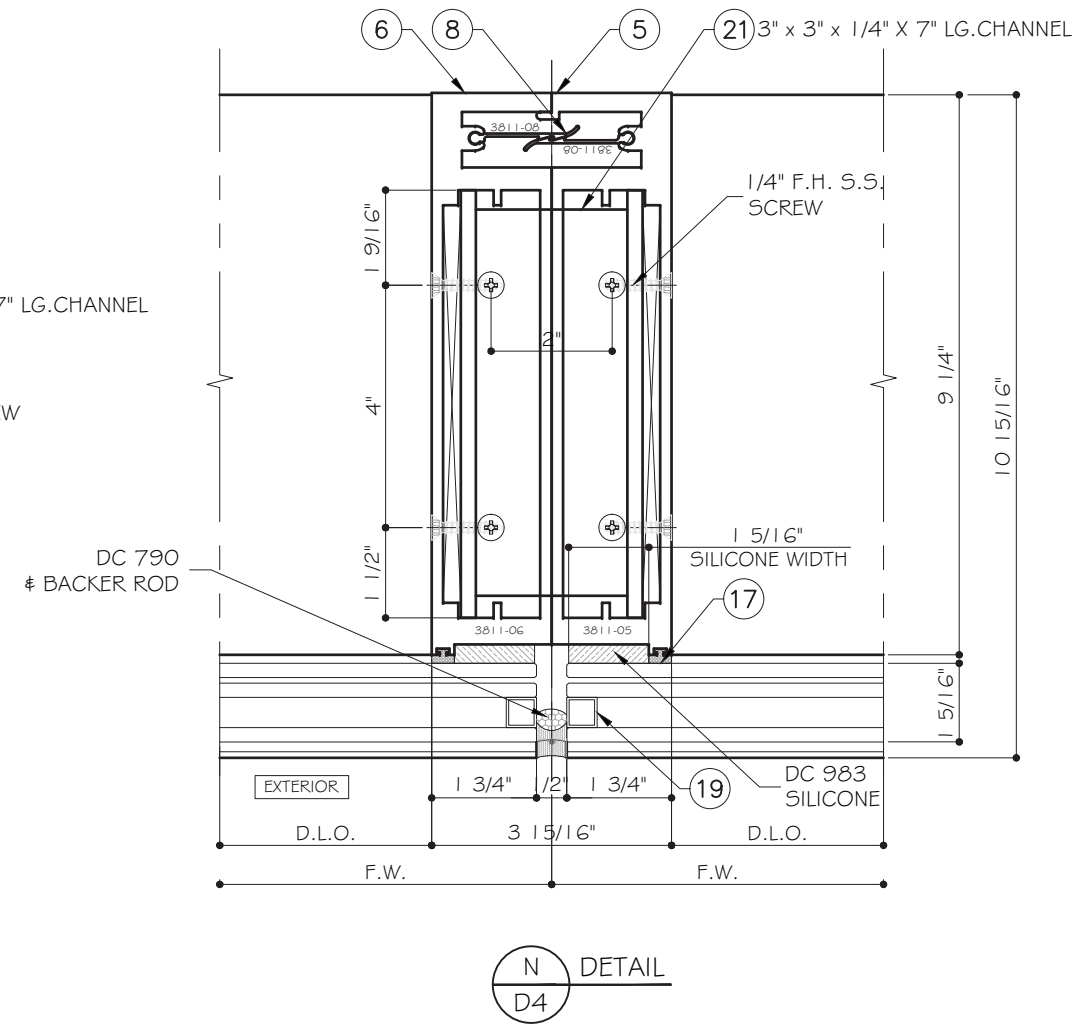
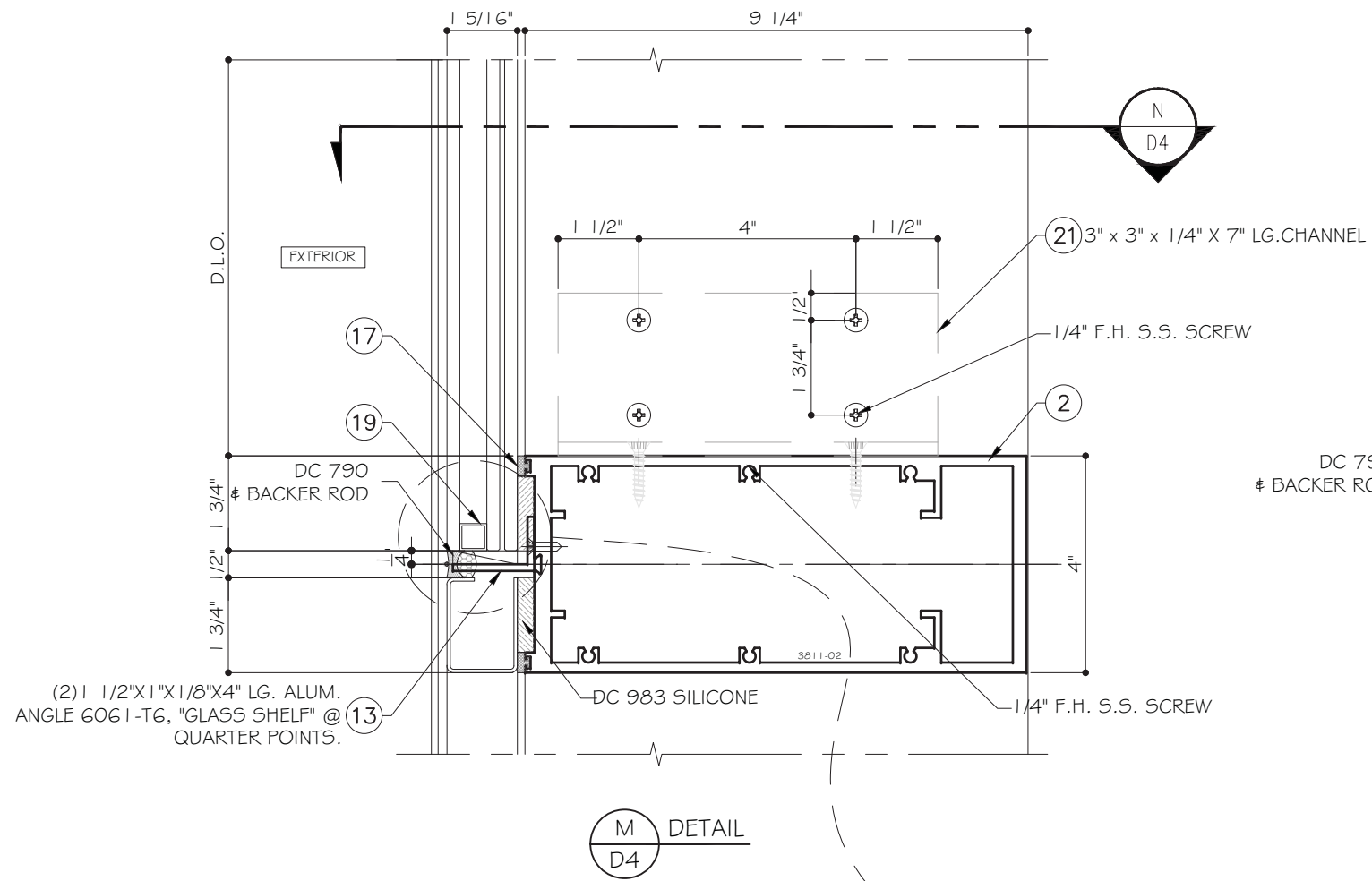
SYSTEM 3811 WINDOW WALL - S.M.I.

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

Rev. No.	Date	Drawn By	Description

Draw. Date: 05/15/2017 Scale: DRAWING NO. 17-27

Sheet No. D3 15 OF 19



GLASS TYPES ARE INTERCHANGEABLE. SEE SHEET G1 FOR GLASS OPTIONS.

FLORIDA APPROVAL:

FL 7202

YIPING WANG

YIPING WANG, P.E.

FLORIDA REGISTRATION NO. 55983

C.A.N. 28677

STATE OF FLORIDA PROFESSIONAL ENGINEER

Drawn By: YIPING WANG

Date: 05/19/2017

Scale: 1/8" = 1'-0"

Drawing No. 17-27

Sheet No. D4

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SYSTEM 3811 WINDOW WALL - S.M.I.

CONTINENTAL GLASS SYSTEMS, LLC.

325 WEST 74 PLACE, HIALEAH, FL 33014

TEL. (305) 231-1101 FAX. (305) 231-1103

MCY ENGINEERING, INC.

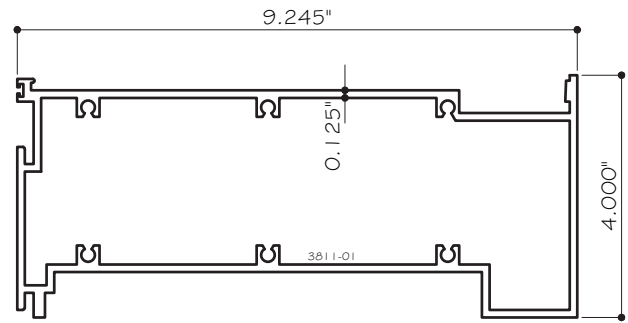
GLAZING CONSULTANTS

8501 SW 124 Ave. Ste. 205A P: 305.271.0117

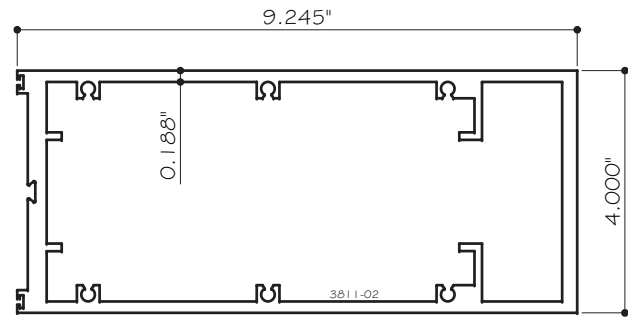
MIAMI, FL 33183 F: 305.279.6818

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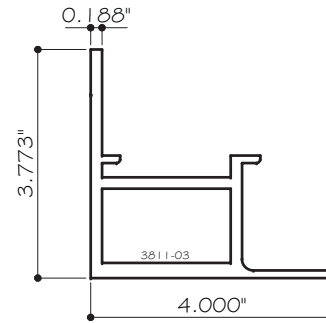
JANUARY 9TH, 2018



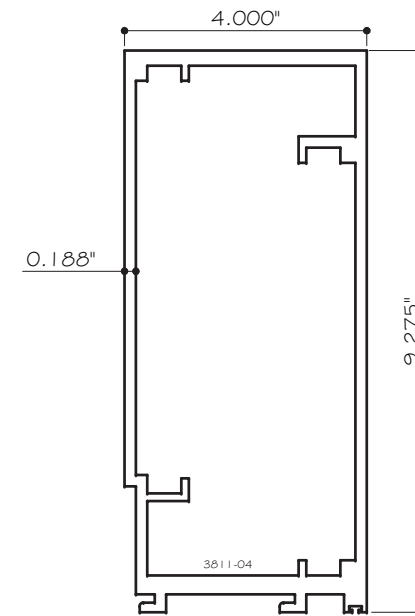
① HEAD & SILL
3811-01 ALUM. 6005-T5



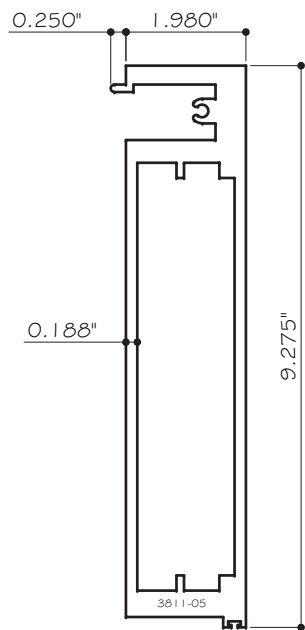
② INTERMEDIATE HORIZONTAL
3811-02 ALUM. 6005-T5



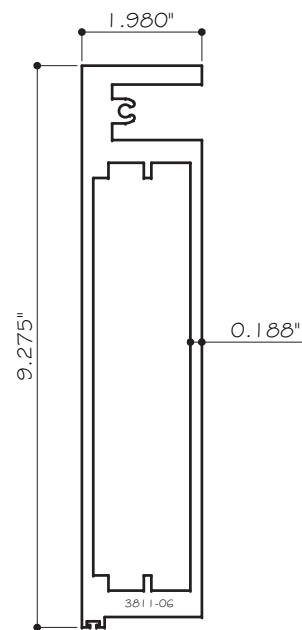
③ GLAZING BEAD
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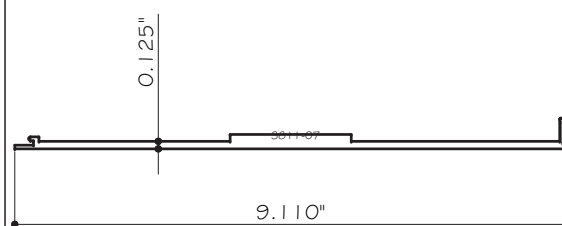
④ JAMB
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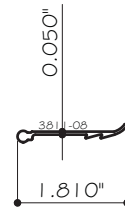
⑤ MALE MULLION
3811-05 ALUM. 6005-T5



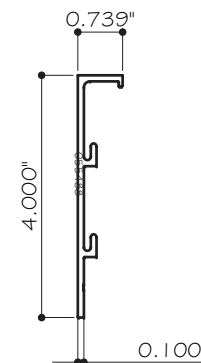
⑥ FEMALE MULLION
3811-06 ALUM. 6005-T5



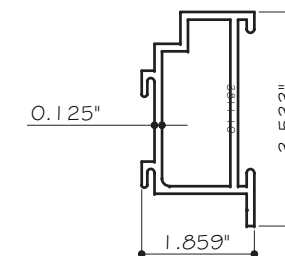
⑦ COVER
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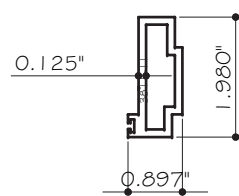
⑧ ANTI-BUCKLING CLIP
3811-08 ALUM. 6005-T5



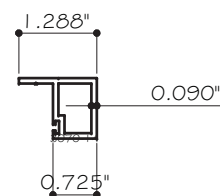
⑨ GLAZING BEAD
3800-09 ALUM. 6005-T5



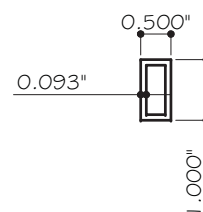
⑩ SUB FRAME
3811-10 ALUM. 6005-T5



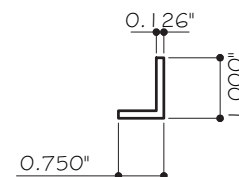
⑪ MULLION ADAPTOR
3811-11 ALUM. 6005-T5



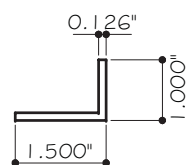
⑫ ALUM. ADAPTOR
3070-14 ALUM. 6005-T5



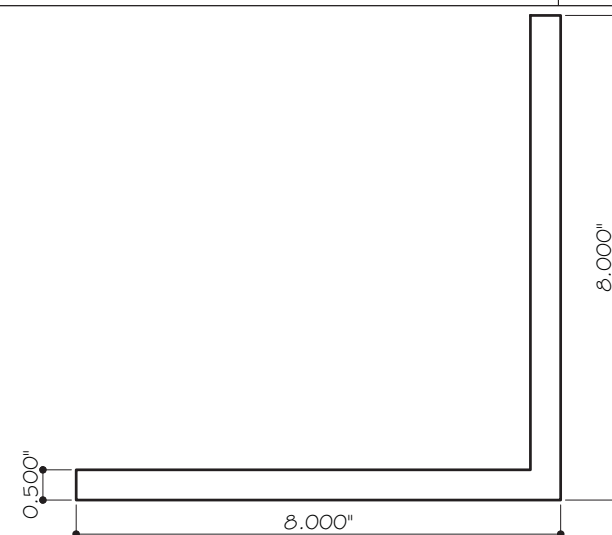
⑬ -
ALUM. 6005-T5



⑭ 3/4" X 1" X 1/8" THK. ANGLE
AL-AN-3A ALUM. 6005-T5



⑮ 1-1/2" X 1" X 1/8" THK. ANGLE, 4" LG.
ALUM. 6005-T5



⑯ 8" X 8" X 1/2" THK. ANGLE.
AL-AN ALUM. 6005-T5

FLORIDA APPROVAL:

 YIPING WANG, P.E.
 FLORIDA REGISTRATION
 NO. 55983
 C.A.N. 28677
 JANUARY 9TH, 2018

Rev. No.	Date	Drawn By	Description

Draw Date: 05/15/2017
 Scale:
 DRAWING NO. 17-27
 PARTS
 Sheet No. 17 OF 19

SYSTEM 3811 WINDOW WALL - S.M.I.
 CONTINENTAL GLASS SYSTEMS, LLC.
 325 WEST 74 PLACE, HIALEAH, FL 33014
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 MIAMI, FL. 33183 F: 205.279.6818
 www.MCYEngineering.com MCY.Engineering@ATT.net

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	3811-01	HEAD & SILL	ALUM. 6005-T5	BONNELL
2	3811-02	INTERMEDIATE HORIZONTAL	ALUM. 6005-T5	BONNELL
3	3811-03	GLAZING BEAD	ALUM. 6005-T5	BONNELL
4	3811-04	JAMB	ALUM. 6005-T5	BONNELL
5	3811-05	MALE MULLION	ALUM. 6005-T5	BONNELL
6	3811-06	FEMALE MULLION	ALUM. 6005-T5	BONNELL
7	3811-07	COVER	ALUM. 6005-T5	BONNELL
8	3811-08	ANTI-BUCKLING CLIP	ALUM. 6005-T5	BONNELL
9	3800-09	GLAZING BEAD	ALUM. 6005-T5	BONNELL
10	3811-10	SUB FRAME	ALUM. 6005-T5	BONNELL
11	3811-11	MULLION ADAPTOR	ALUM. 6005-T5	BONNELL
12	3070-14	ALUM. ADAPTOR	ALUM. 6005-T5	BONNELL
13	AL-TUBE	1" X 1/2" X 1/16" THK. ALUM. TUBE	ALUM. 6005-T5	-
14	AL-AN-3A	3/4" X 1" X 1/8" THK. ALUM. ANGLE	ALUM. 6005-T5	-
15	AL-AN	1-1/2" X 1" X 1/8" THK. ALUM. ANGLE	ALUM. 6005-T5	-
16	AL-AN	8" X 8" X 1/2" ALUM. ANGLE	ALUM. 6005-T5	-
17	9333	GLAZING GASKET	SILICONE	-
18	DC983 OR DC995	STRUCTURAL SEALANT DC983 OR DC995	SILICONE	-
19	-	GLAZING SPACER	ALUMINUM	PROFILGLASS
20	-	3/8" X 6-3/4" STEEL BAR	STEEL, A36 MIN.	-
21	-	3" X 3" X 1/4" X 7" LG. CHANNEL	STEEL, A36 MIN.	-

MCY ENGINEERING, INC.
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									Description

FLORIDA APPROVAL:

FL 2008
YIPING WANG
LICENSE
YIPING WANG, P.E.
FLORIDA REGISTRATION
F 055983
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEERING

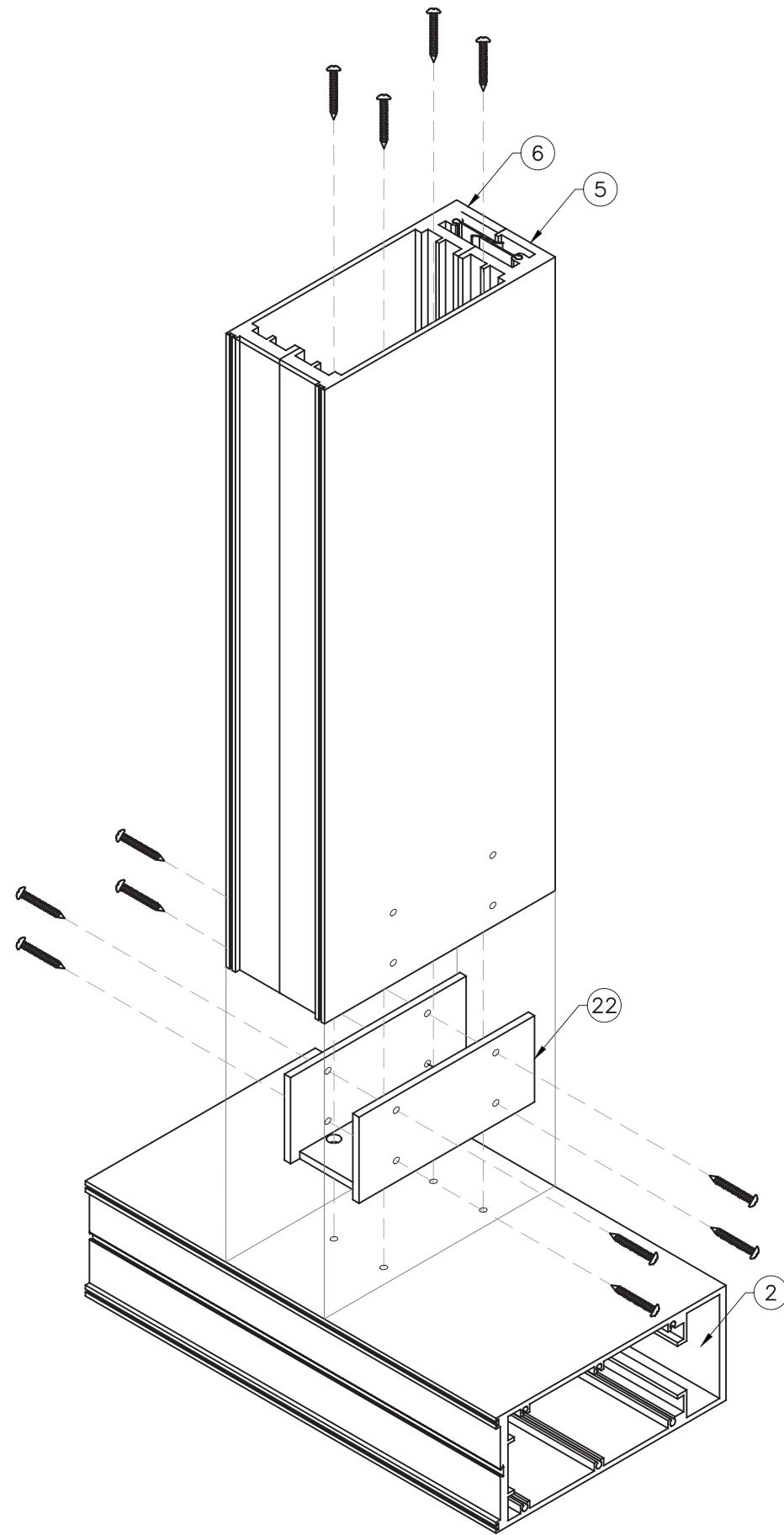
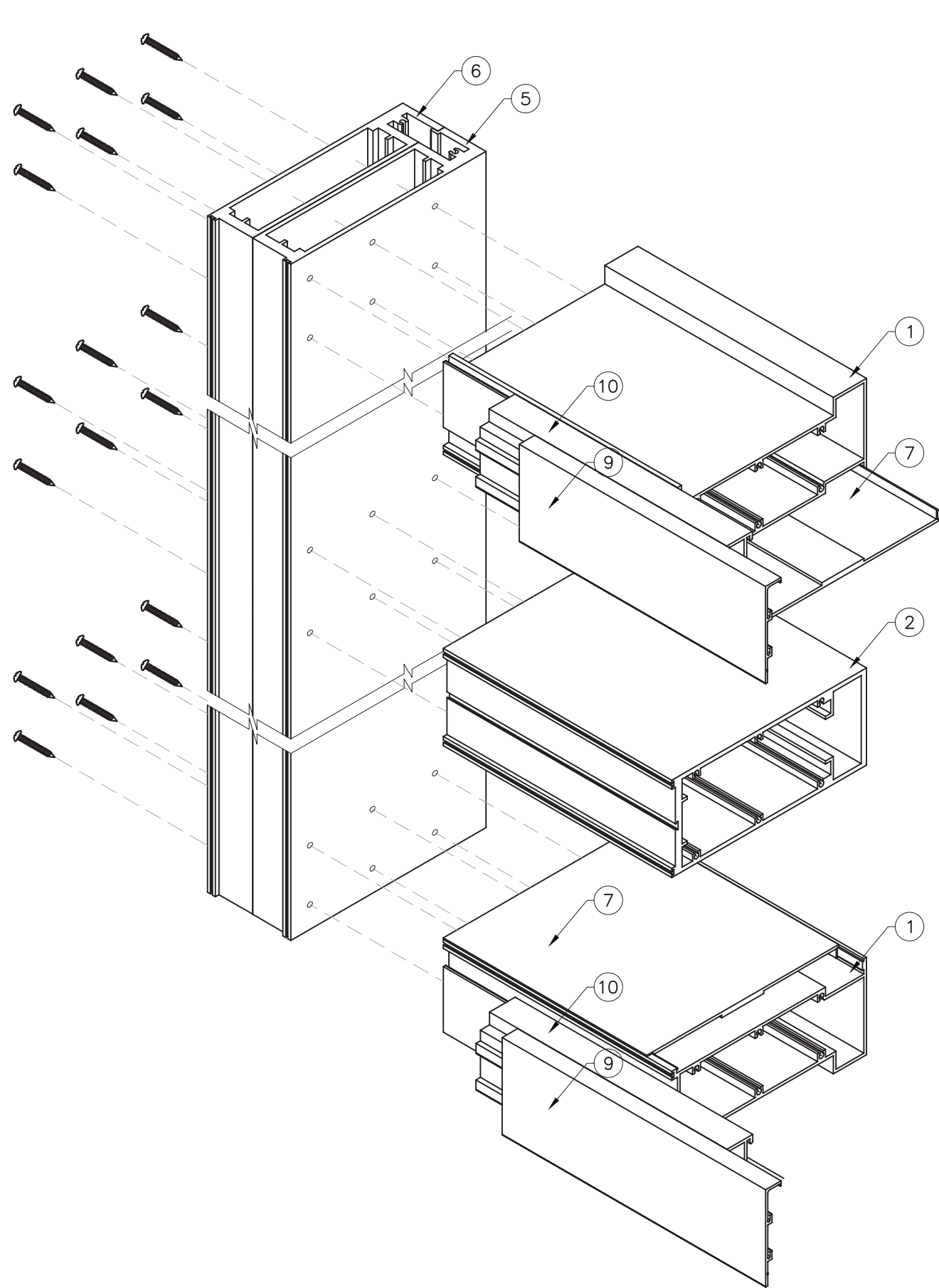
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Sheet No. 18 OF 19

JANUARY 9TH, 2018



FLORIDA APPROVAL:
 FL 7200
 YIPING WANG
 YIPING WANG, P.E.
 FLORIDA REGISTRATION
 NO. 55983
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