

SYSTEM 3811 ALUMINUM WINDOW WALL LARGE 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).
- LARGE MISSILE IMPACT WINDOW WALL TO BE USED AT ELEVATIONS BELOW 30'-0" OF GRADE LEVEL. 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 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 APPROVED GLASS TYPES ON SHEET G1. SEE CHART ON SHEET G2 FOR APPROVED DESIGN LOAD FOR GLASS BASED ON E-1300/09.
- STEP 4: SEE CHART ON SHEET G1 FOR CAPACITY FOR STRUCTURAL SILICONE.
- STEP 5: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1.
- STEP 6: SEE ALLOWABLE CAPACITY OF MULLION OR JAMB SUPPORT DOUBLE ENTRANCE DOOR ON SHEET M2 TO M5.
- STEP 7: SELECT ANCHOR TYPE ON SHEET A3 AND CHECK ANCHOR CAPACITY ON SHEET A1 & A2 FOR TYPICAL MULLION & JAMB. 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 8: THE LOWEST VALUE RESULTING FROM STEPS ABOVE SHALL APPLY TO ENTIRE SYSTEM. THE CAPACITY SHOULD NOT EXCEED THE JOB REQUIRED LOAD.

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.

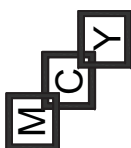
D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

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:


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

Drawn Date: 05/19/2017
 Scale: _____
 DRAWING NO. 17-25
 COVER
 Sheet No. 1 OF 20



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GLAZING CONSULTANTS

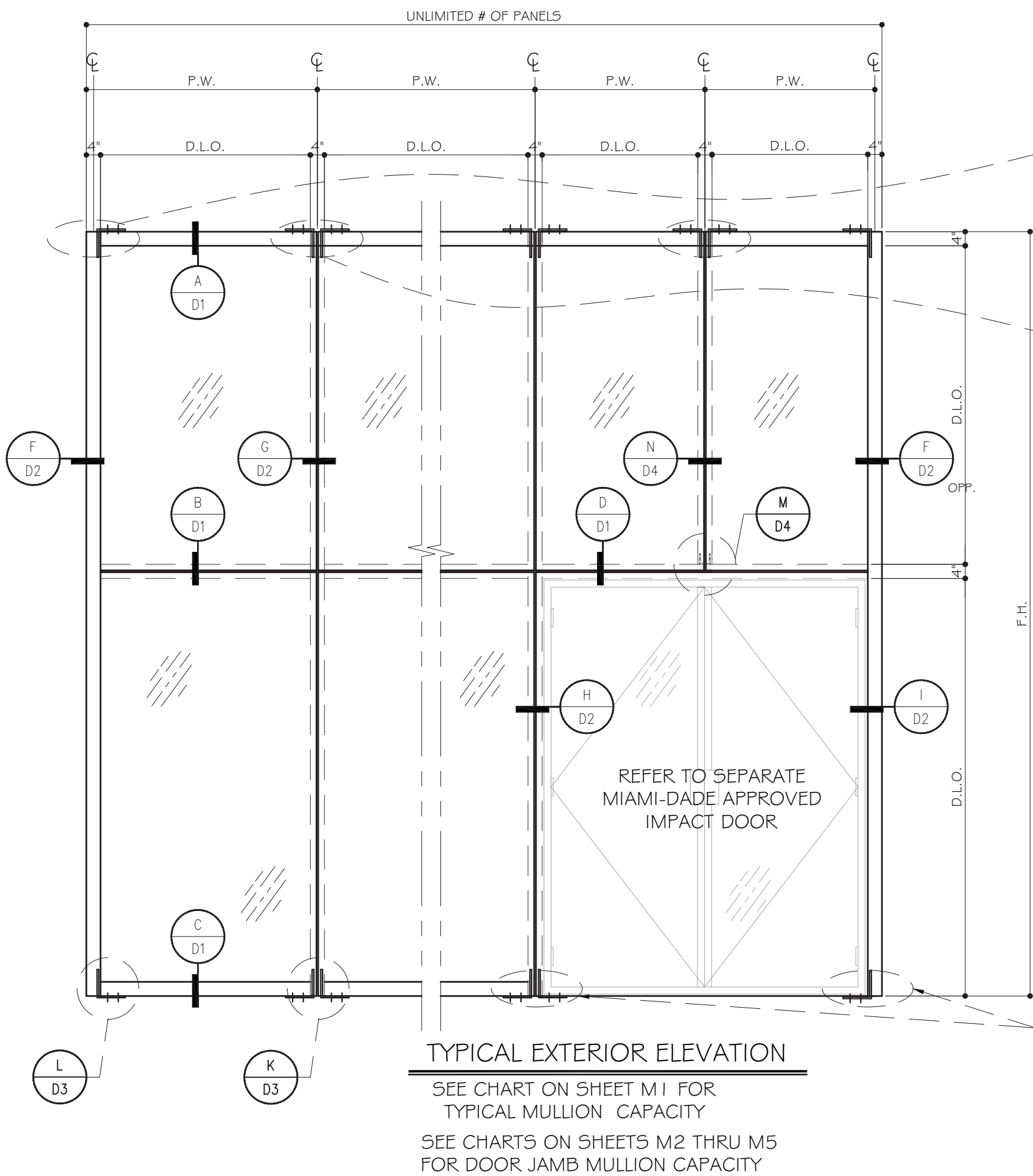
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SYSTEM 3811 WINDOW WALL - L.M.I.

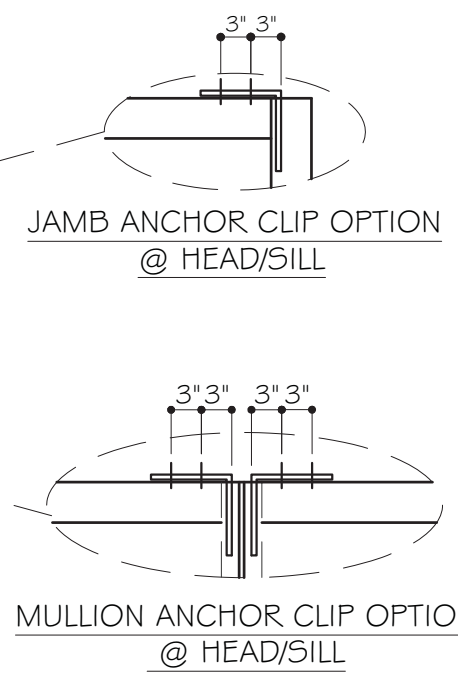
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 TEL. (305) 231-1101 FAX. (305) 231-1103

Rev. No.	Date	Drawn By	Description



TYPICAL EXTERIOR ELEVATION
 SEE CHART ON SHEET M1 FOR TYPICAL MULLION CAPACITY
 SEE CHARTS ON SHEETS M2 THRU M5 FOR DOOR JAMB MULLION CAPACITY

TYPICAL MULLION & JAMB ANCHOR



SEE SHEETS A1 & A2 FOR ANCHOR CAPACITIES

SEE CHARTS ON SHEETS A4 FOR DOOR JAMB MULLION ANCHOR CAPACITIES

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FLORIDA APPROVAL:
 FL 7202
 YI-PING WANG
 YI-PING WANG, P.E.
 FLORIDA REGISTRATION
 NO. 55983
 C.A.N. 28677

DATE: 05/19/2017
 SCALE: 1/8" = 1'-0"
 DRAWING NO.: 17-25
 SHEET NO.: E1
 2 OF 20

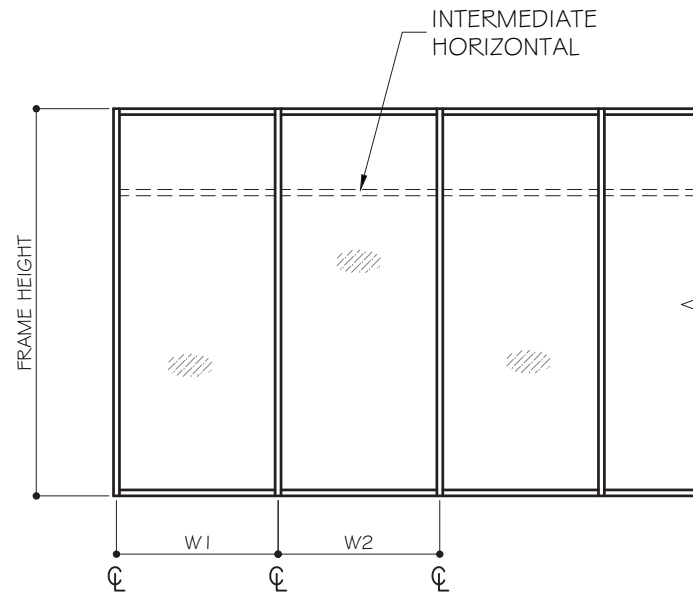
JANUARY 9TH, 2018

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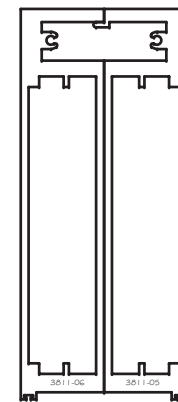
TYPICAL MULLION & JAMB

MULLION DESIGN LOAD CAPACITY - PSF			
MULLION DIMENSION		UNREINFORCED MI, JI	
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	100	100	
96	100	100	
42	180	100	150
48		100	150
54		100	150
60		100	100
66		100	100
72	100	100	
84	100	100	
90	100	100	
54	182	100	150
36	192	100	150
42		100	150
48		100	150
66		100	100
72		100	100
78	100	100	
84	100	100	

MULLION DESIGN LOAD CAPACITY - PSF			
MULLION DIMENSION		UNREINFORCED MI, JI	
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
72		84	84
30	252	100	141
36		100	117
42		100	100
48		94	94
54		83	83
60		75	75
66		68	68
72		68	68
30	264	100	128
36		100	107
42		93	93
48		82	82
54		73	73
60		65	65



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



MULLION (MI)

MI	Ix IN^4	Sx IN^3
3811-05	59.0220	11.7459
3811-06	58.3332	11.6804
TOTAL	117.355	23.3548



JAMB (JI)

JI	Ix IN^4	Sx IN^3
3811-04	72.0422	15.119
TOTAL	72.0422	15.119

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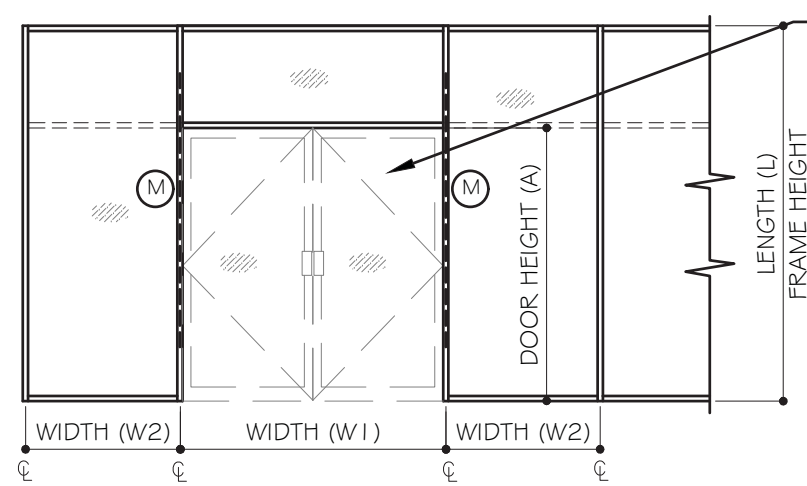
FLORIDA APPROVAL:
YIPING WANG
YIPING WANG, P.E.
FLORIDA REGISTRATION NO. 55983
C.A.N. 28677
JANUARY 9TH, 2018

Rev. No.	Date	Drawn By	Description

Draw Date: 05/15/2017 Scale: DRAWING NO. 17-25
Sheet No. 5 OF 20

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

JANUARY 9TH, 2018

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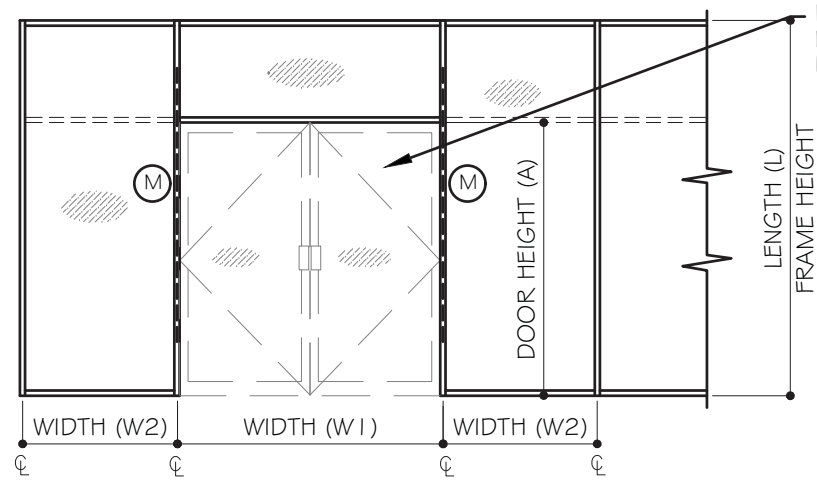
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Sheet No. 6 OF 20

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	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 7200

YIEN WANG

YIEN WANG, P.E.

FLORIDA REGISTRATION NO. 55983

C.A.N. 28677

STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE: 05/19/2017

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SHEET NO. 7 OF 20

MCY ENGINEERING, INC.
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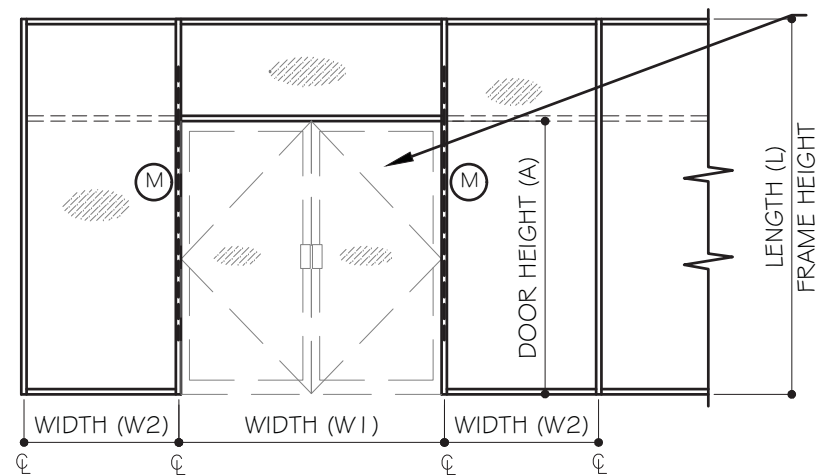
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DOOR JAMB MULLION DESIGN LOAD CAPACITY - PSF					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
192	108	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	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

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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
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	86.0
			60	83.0	83.0
			66	80.0	80.0
		96	48	82.0	82.0
			54	79.0	79.0
			60	86.0	86.0
			66	83.0	83.0



REFER TO SEPARATE MIAMI-DADE APPROVED IMPACT DOOR

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Draw Date: 05/19/2017

Scale:

DRAWING NO. 17-25

M4

Sheet No. 8 OF 20

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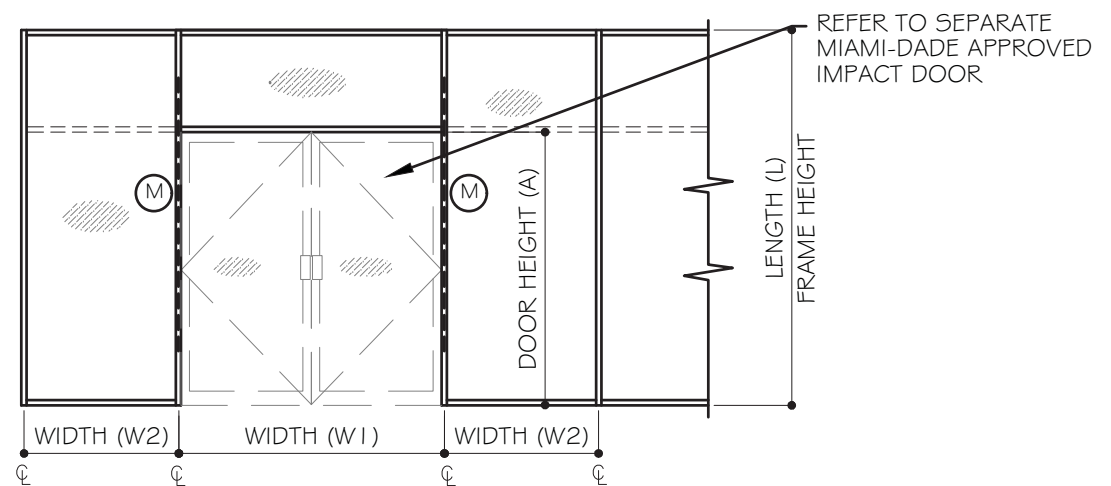
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WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN) (L)	DOOR HEIGHT (IN) (A)	DOOR WIDTH (IN) (W1)	SIDELITE WIDTH (IN) (W2)	(+) PSF	(-) PSF
192	120	72	60	100.0	100.0
			66	100.0	100.0
			72	100.0	100.0
			78	100.0	100.0
		84	60	100.0	100.0
			66	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	72	87.0	87.0
			78	83.0	83.0
			48	93.0	93.0
			54	89.0	89.0
		96	60	86.0	86.0
			66	83.0	83.0
			48	85.0	85.0
			54	82.0	82.0



FLORIDA APPROVAL:

FL 2008

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"=1'-0"

Drawing No. 17-25

Sheet No. 9 OF 20

JANUARY 9TH, 2018

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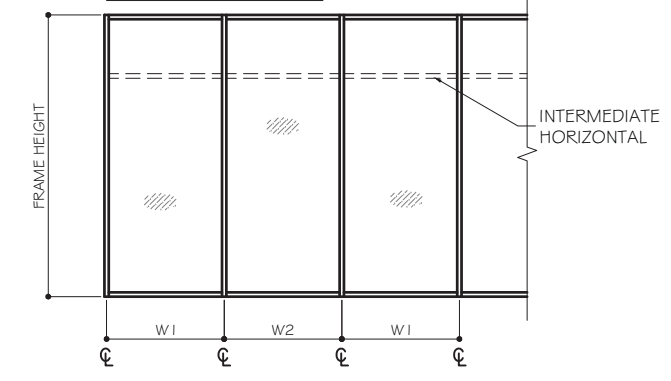
Rev. No.	Date	Drawn By	Description

ANCHORS DESIGN LOAD CAPACITY - PSF

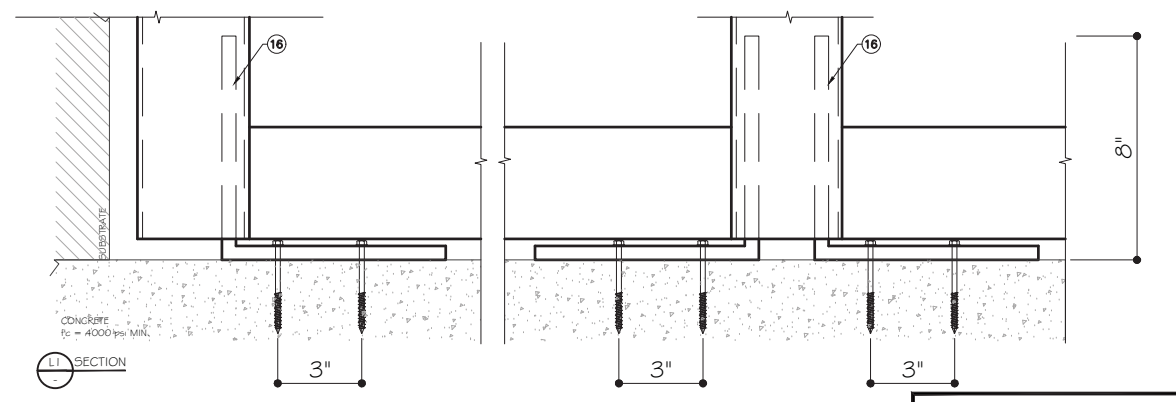
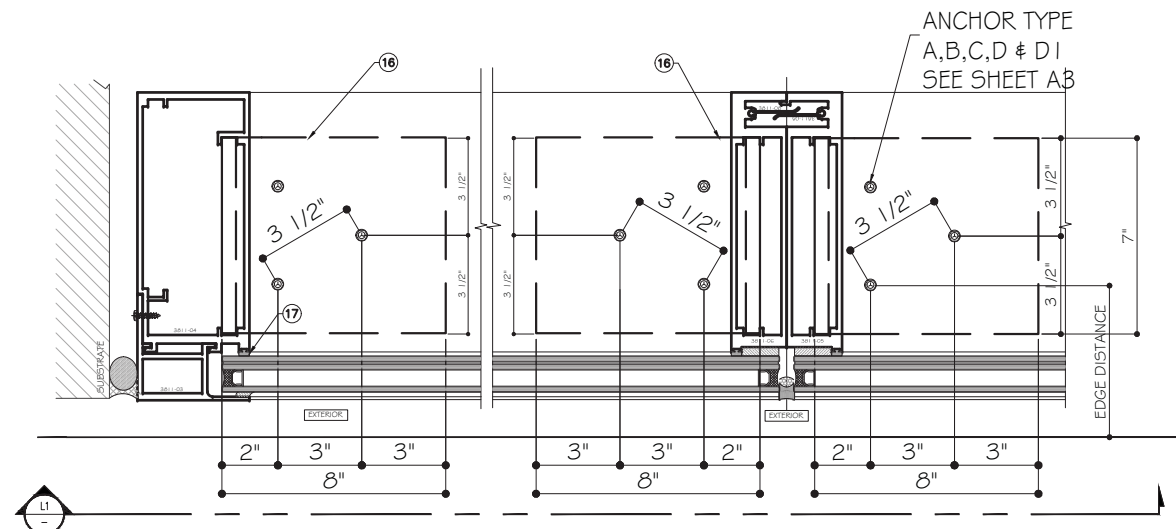
MULLION DIMENSION		3" MIN. EDGE DIST.			4 1/2" MIN. EDGE DIST.			3/4" MIN. EDGE DIST.	
FRAME WIDTH (IN) (W)	FRAME HEIGHT (IN)	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE D	ANCHOR TYPE D I
54	120	150	150	150	150	150	150	150	150
60		139	150	150	150	150	150	150	150
66		126	139	150	150	150	150	150	150
72		116	128	150	146	150	150	150	150
78		107	118	140	135	150	150	144	150
84		99	109	130	125	150	150	134	150
90		92	102	121	117	140	150	125	150
96		87	96	113	110	131	150	117	150
54	132	140	150	150	150	150	150	150	150
60		126	139	150	150	150	150	150	150
66		115	127	150	145	150	150	150	150
72		105	116	138	133	150	150	142	150
78		97	107	127	123	147	150	131	150
84		90	99	118	114	136	150	122	150
90		84	93	110	106	127	150	114	150
96		79	87	103	100	119	150	106	150
54	144	128	142	150	150	150	150	150	150
60		116	128	150	146	150	150	150	150
66		105	116	138	133	150	150	142	150
72		96	106	126	122	146	150	130	150
78		89	98	116	112	134	150	120	150
84		83	91	108	104	125	150	112	150
90		77	85	101	97	117	150	104	150
96		72	80	95	91	109	143	98	146
54	156	119	131	150	150	150	150	150	150
60		107	118	140	135	150	150	144	150
66		97	107	127	123	147	150	131	150
72		89	98	116	112	134	150	120	150
78		82	91	107	104	124	150	111	150
84		76	84	100	96	115	150	103	150
90		71	79	93	90	108	140	96	144
96		67	74	87	84	101	132	90	135
54	168	110	122	144	139	150	150	149	150
60		99	109	130	125	150	150	134	150
66		90	99	118	114	136	150	122	150
72		83	91	108	104	125	150	112	150
78		76	84	100	96	115	150	103	150
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	150	150	139	150
60		92	102	121	117	140	150	125	150
66		84	93	110	106	127	150	114	150
72		77	85	101	97	117	150	104	150
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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 YIPING WANG, P.E.
 FLORIDA REGISTRATION NO. 55983
 C.A.N. 28677
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ANCHOR CHART CONTINUE

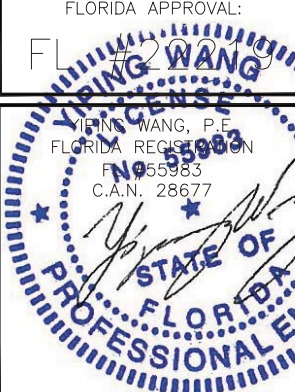
ANCHORS DESIGN LOAD CAPACITY - P5F									
MULLION DIMENSION		3" MIN. EDGE DIST.			4 1/2" MIN. EDGE DIST.			3/4" MIN. EDGE DIST.	
MULLION WIDTH(IN) (W)	FRAME HEIGHT (IN)	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE D	ANCHOR TYPE D I
54	192	96	106	126	122	146	150	130	150
60		87	96	113	110	131	150	117	150
66		79	87	103	100	119	150	106	150
72		72	80	95	91	109	143	98	146
78		67	74	87	84	101	132	90	135
84		62	68	81	78	94	122	84	126
54	204	91	100	119	115	137	150	124	160
60		82	90	107	103	123	150	110	150
66		74	82	97	94	112	146	100	150
72		68	75	89	86	103	134	92	138
78		63	69	82	79	95	124	85	127
54	216	86	95	112	108	129	150	116	150
60		77	85	101	97	117	152	104	150
66		70	77	92	89	106	138	95	142
72		64	71	84	81	97	127	87	130
78		59	65	78	75	90	117	80	120
42	228	104	115	136	132	150	150	141	150
48		91	101	119	115	150	150	123	150
54		81	90	106	103	123	150	110	150
60		73	81	96	92	110	144	99	148
66		66	73	87	84	100	131	90	135
72		61	67	80	77	92	120	82	123
42	240	99	109	130	125	150	160	134	150
48		87	96	113	110	131	160	117	150
54		77	85	101	97	117	152	104	150
60		69	77	91	88	105	137	94	141
66		63	70	83	80	95	124	85	128
42	252	94	104	123	119	143	150	128	150
48		83	91	108	104	125	150	112	150
54		73	81	96	93	111	145	99	149
60		66	73	86	84	100	130	89	134
66		60	66	79	76	91	119	81	122
42	264	90	99	118	114	136	150	122	150
48		79	87	103	100	119	150	106	150
54		70	77	92	89	106	138	95	142
60		63	70	83	80	95	124	85	128

NOTE:
SEE ANCHOR TYPE ON SHEET A3

SEE ANCHOR LAYOUT FOR TYPICAL MULLION & JAMB ON SHEET A1

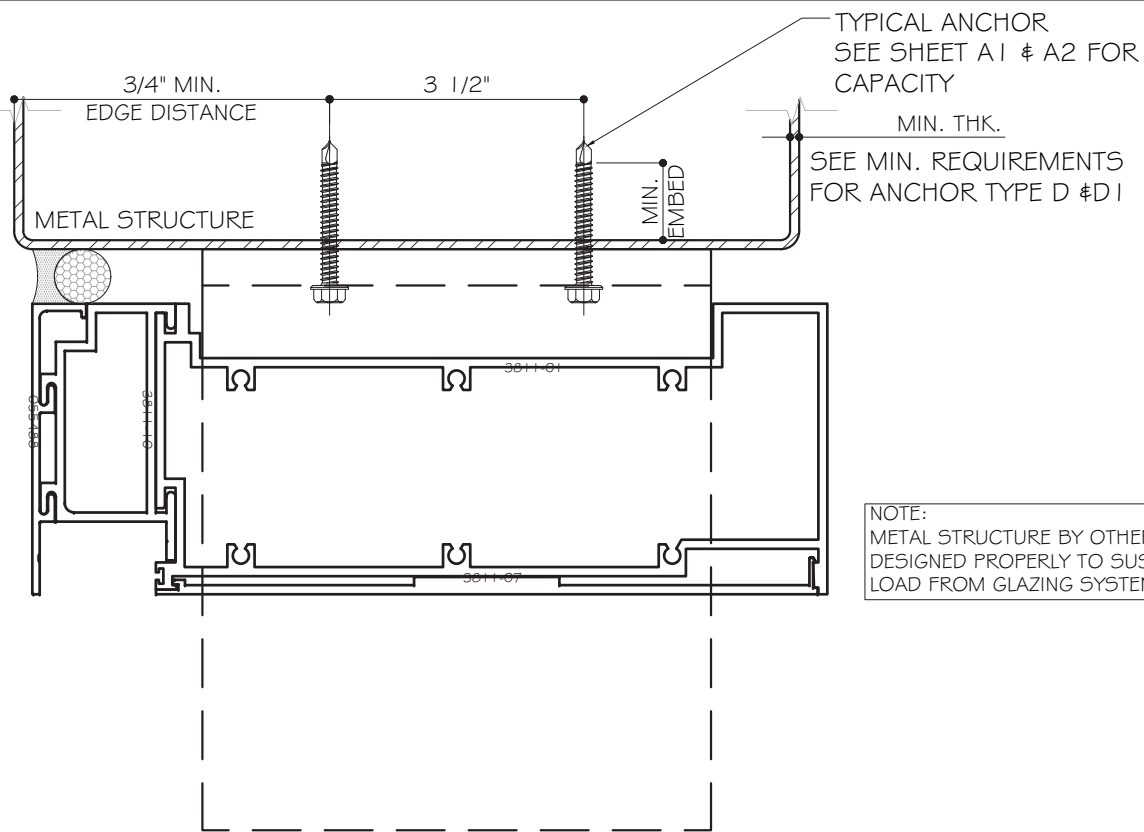
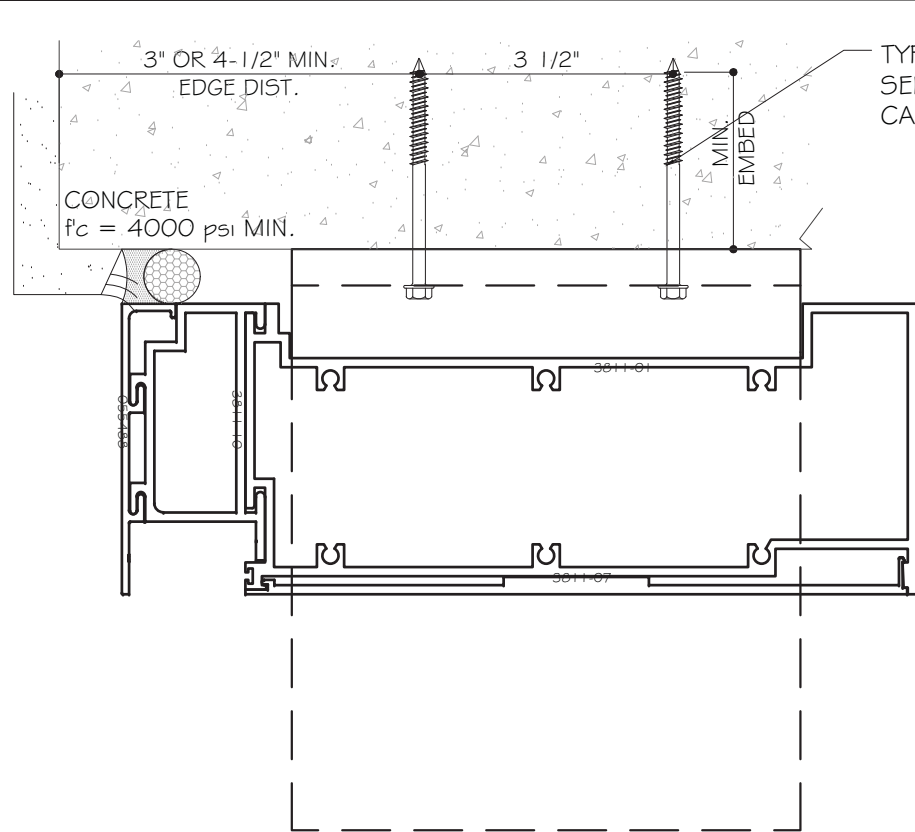
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FLORIDA APPROVAL:

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

Rev. No.	Date	Drawn By	Description

Draw Date: 05/19/2017
 Scale: DRAWING NO. 17-25
 Sheet No. A2
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NOTE:
METAL STRUCTURE BY OTHERS TO BE
DESIGNED PROPERLY TO SUSTAIN THE
LOAD FROM GLAZING SYSTEM.

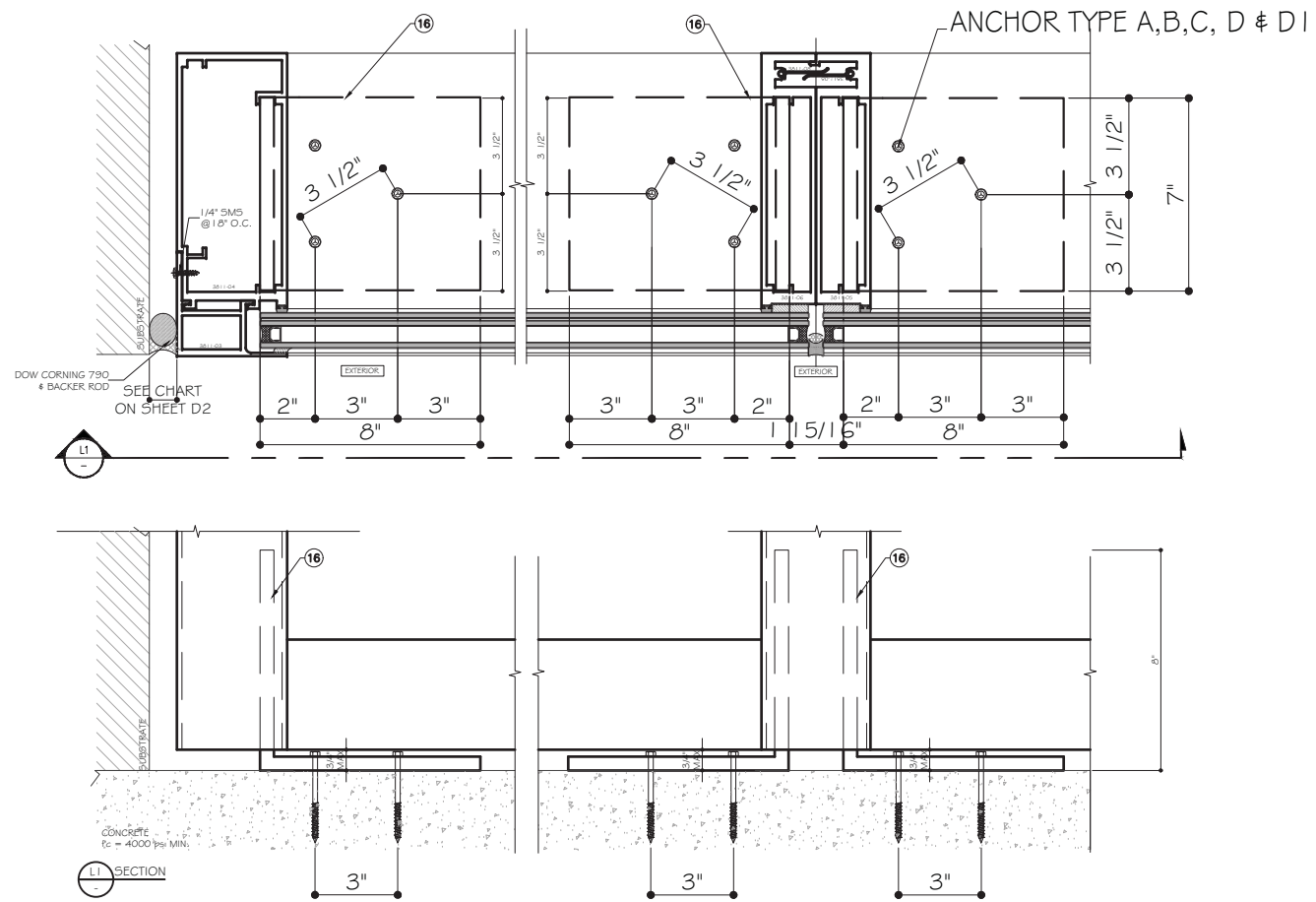
TYPICAL ANCHORS AT HEAD/SILL:

- 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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CONTINENTAL GLASS SYSTEMS, LLC.
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FLORIDA APPROVAL:
FL 2007
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

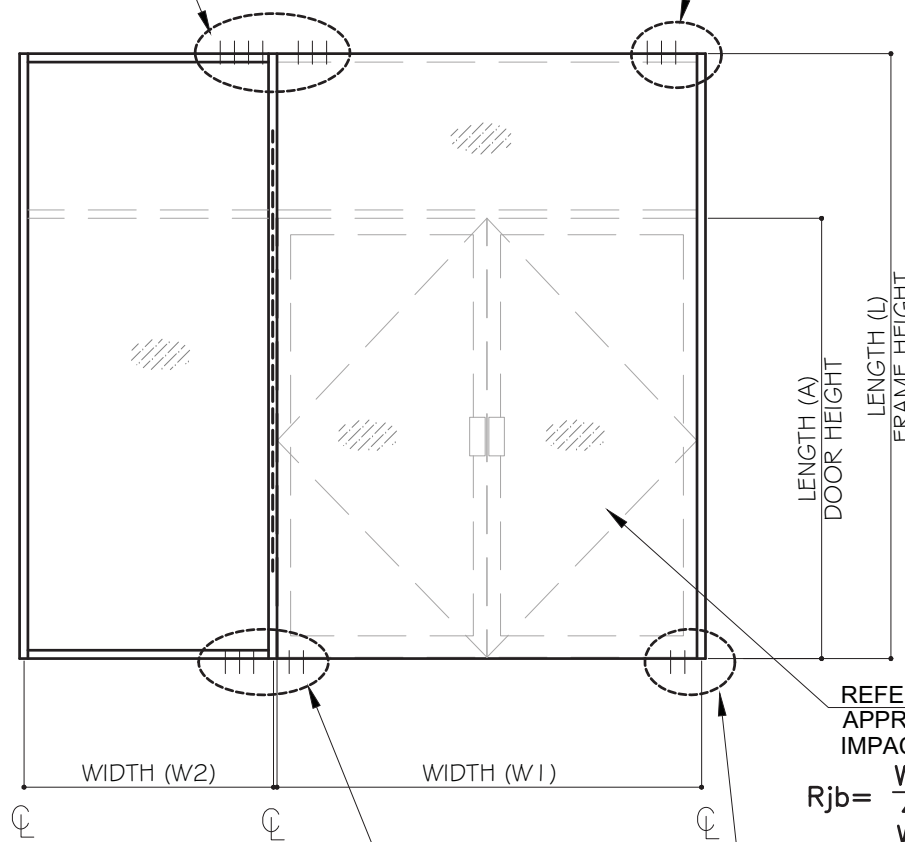
Draw Date: 05/19/2017
Scale: DRAWING NO. 17-25
Sheet No. 13 OF 20

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

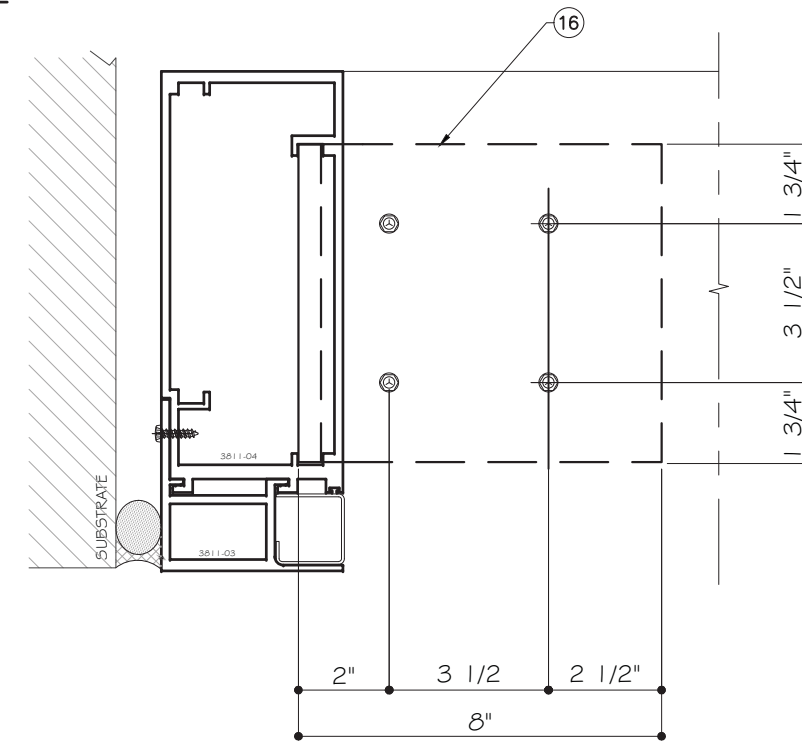
$$R_{jt} = \frac{W1}{4} * \frac{L}{2} * W_n + \frac{W1}{4} * \frac{L}{2} * W_n * \frac{A}{L}$$



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

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

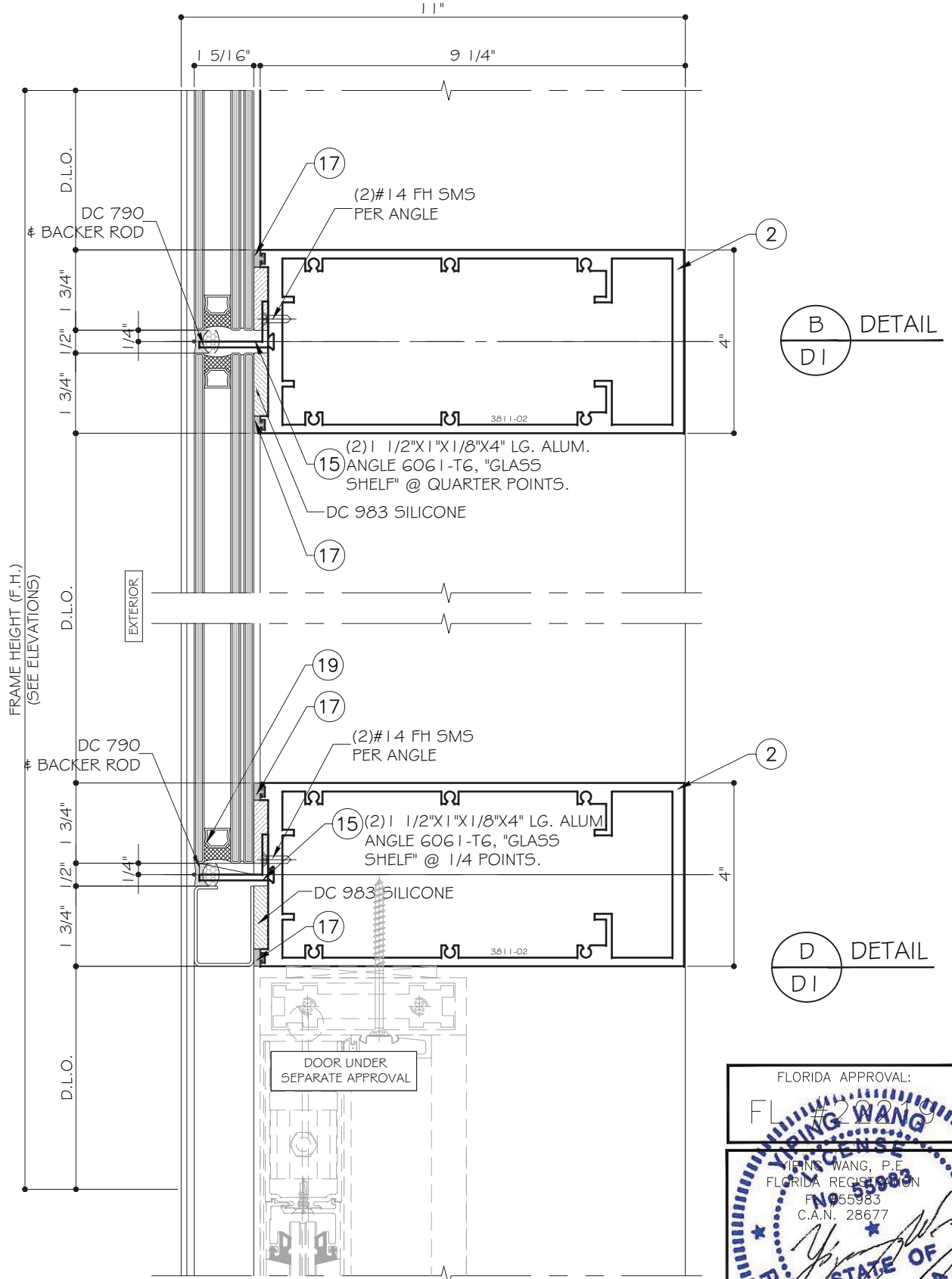
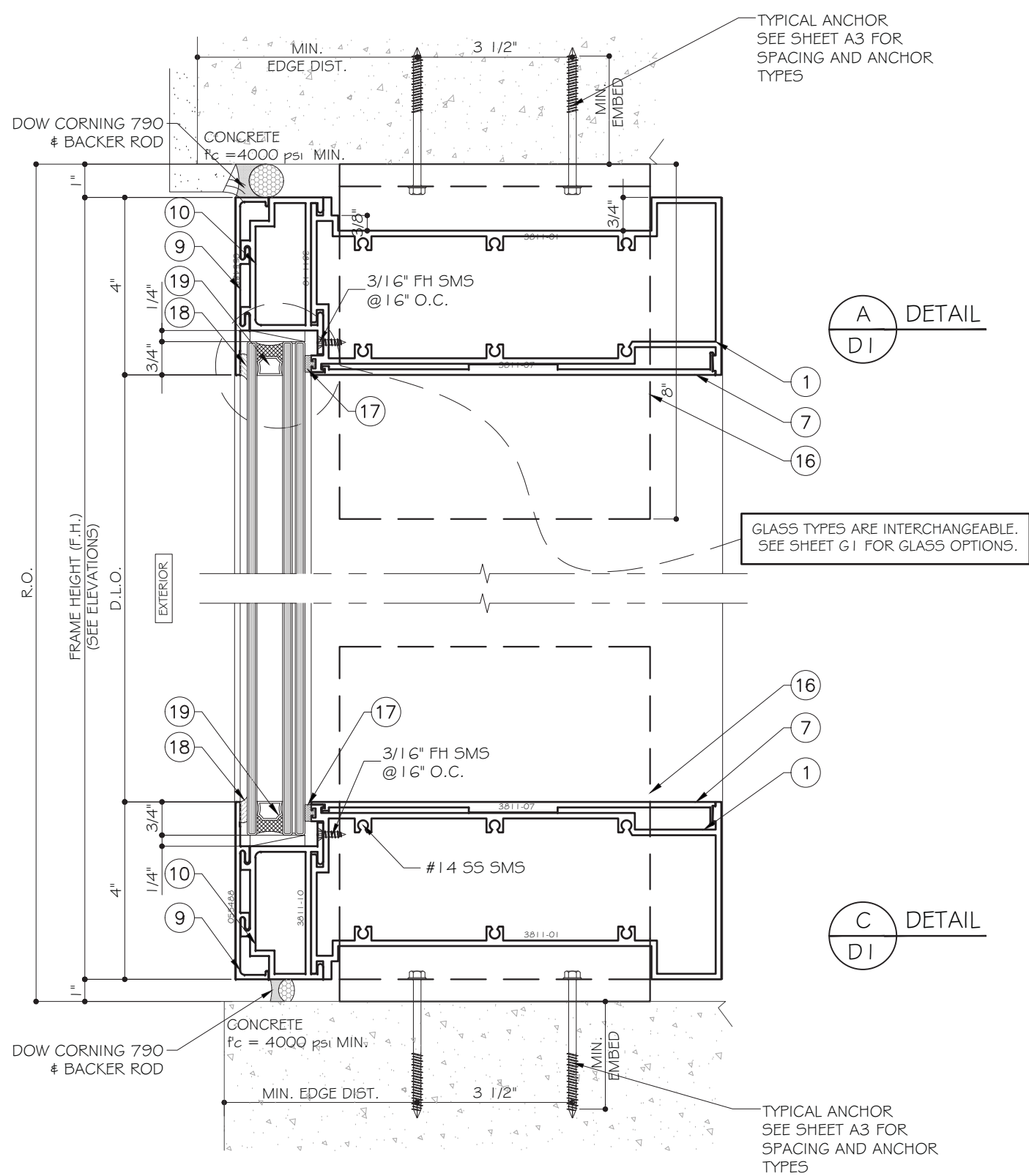
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DOOR JAMB MULLION ANCHOR CAPACITIES

FLORIDA APPROVAL:
FL 2017
YIPING WANG
YIPING WANG, P.E.
FLORIDA REGISTRATION
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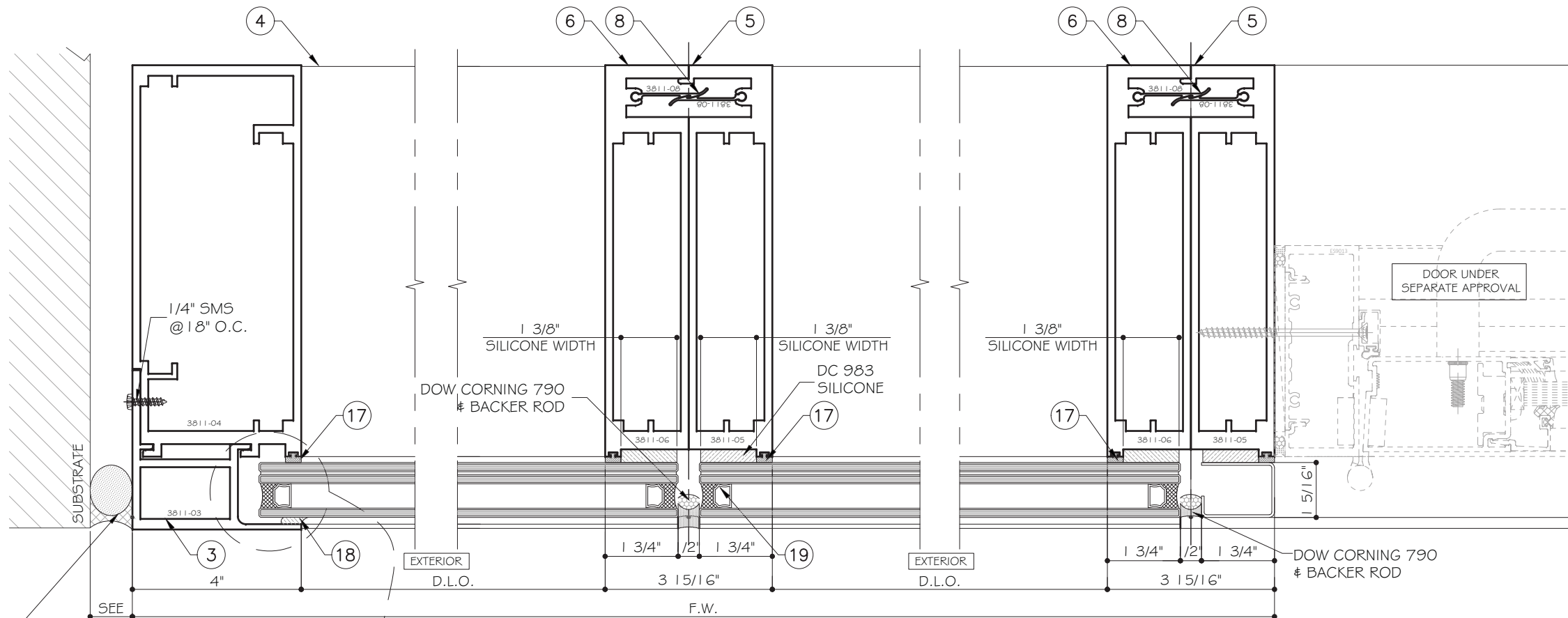
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 Sheet No. 14 OF 20

JANUARY 9TH, 2018



F
D2
DETAIL

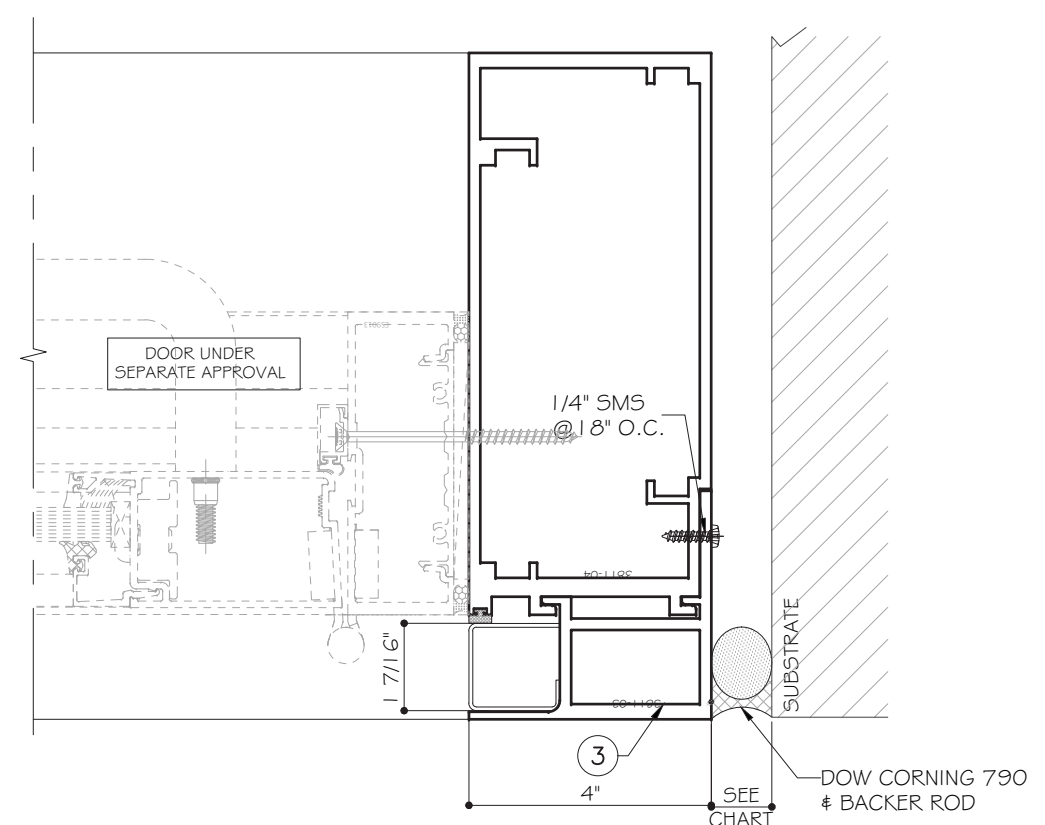
G
D2
DETAIL

H
D2
DETAIL

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
144"	1/2"	1 1/2"
156"	1/2"	1 1/2"
168"	5/8"	1 1/2"
180"	5/8"	1 1/2"
192"	5/8"	1 1/2"
204"	5/8"	1 1/2"
216"	3/4"	1 1/2"
228"	3/4"	1 1/2"
240"	3/4"	1 1/2"
252"	7/8"	1 1/2"
264"	7/8"	1 1/2"

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

I
D2
DETAIL



FLORIDA APPROVAL:

FL 7200

YIP WANG

YIP WANG, P.E.

FLORIDA REGISTRATION NO. 55983

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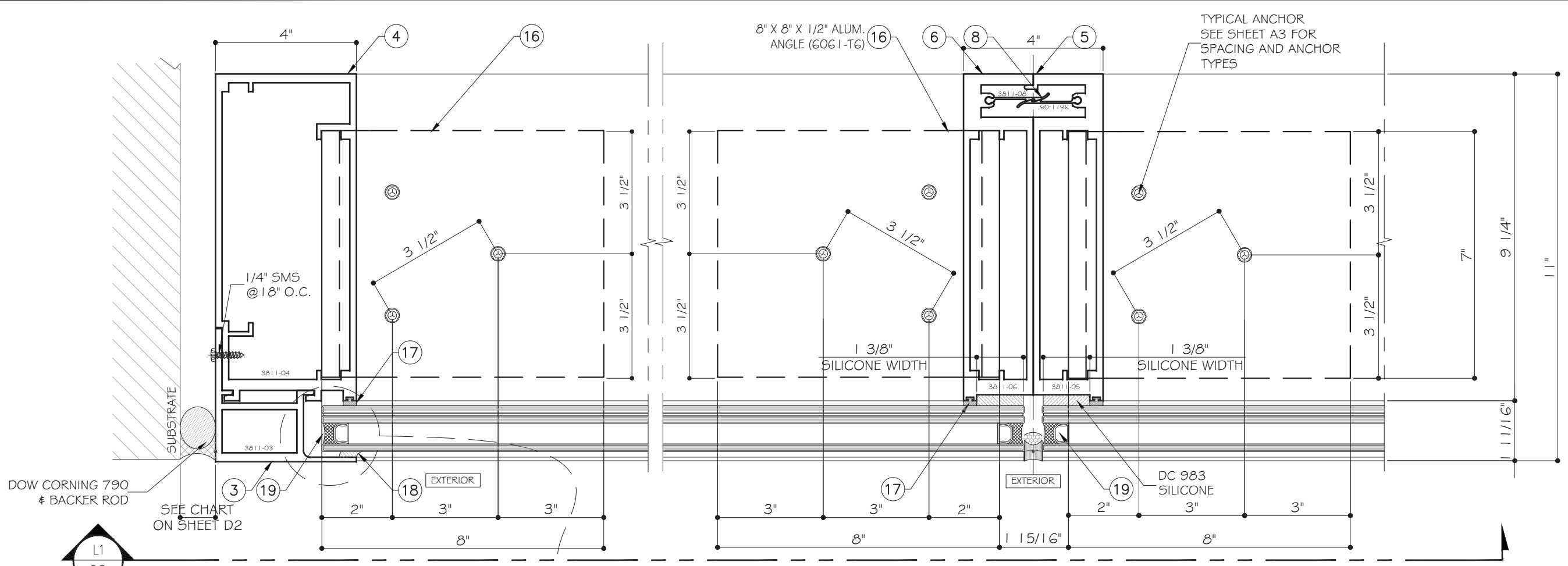
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D2

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JANUARY 9TH, 2018



DOW CORNING 790
BACKER ROD

SEE CHART
ON SHEET D2

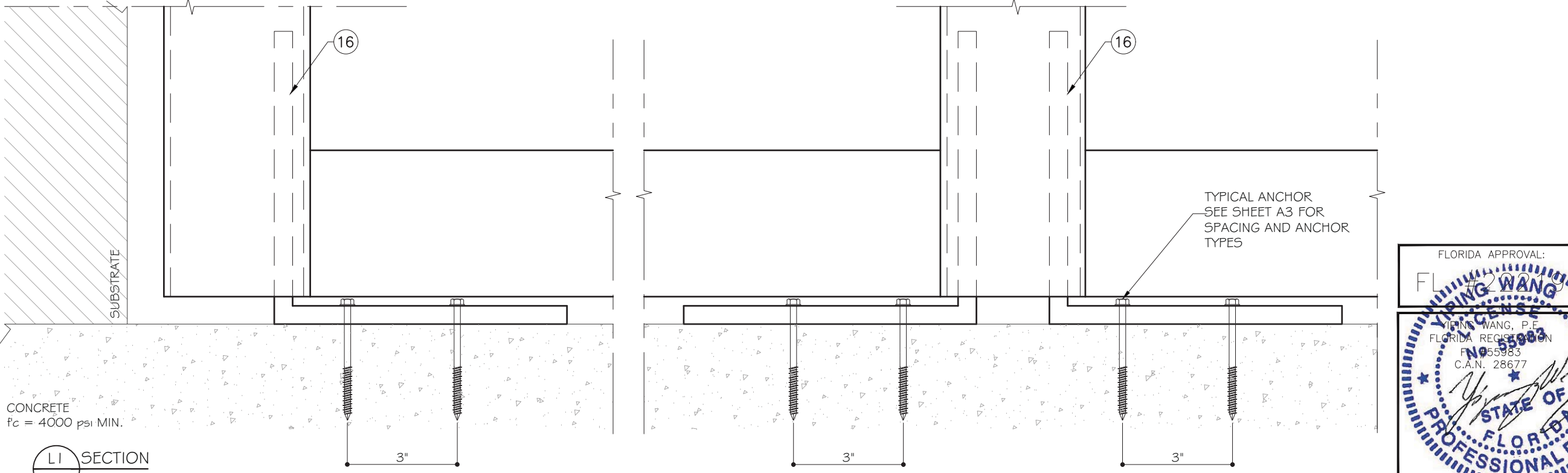
GLASS TYPES ARE INTERCHANGEABLE.
SEE SHEET G1 FOR GLASS OPTIONS.

TYPICAL ANCHOR
SEE SHEET A3 FOR
SPACING AND ANCHOR
TYPES

L1
D3

L
D3
DETAIL

K
D3
DETAIL



CONCRETE
f_c = 4000 psi MIN.

TYPICAL ANCHOR
SEE SHEET A3 FOR
SPACING AND ANCHOR
TYPES

L1
D3
SECTION

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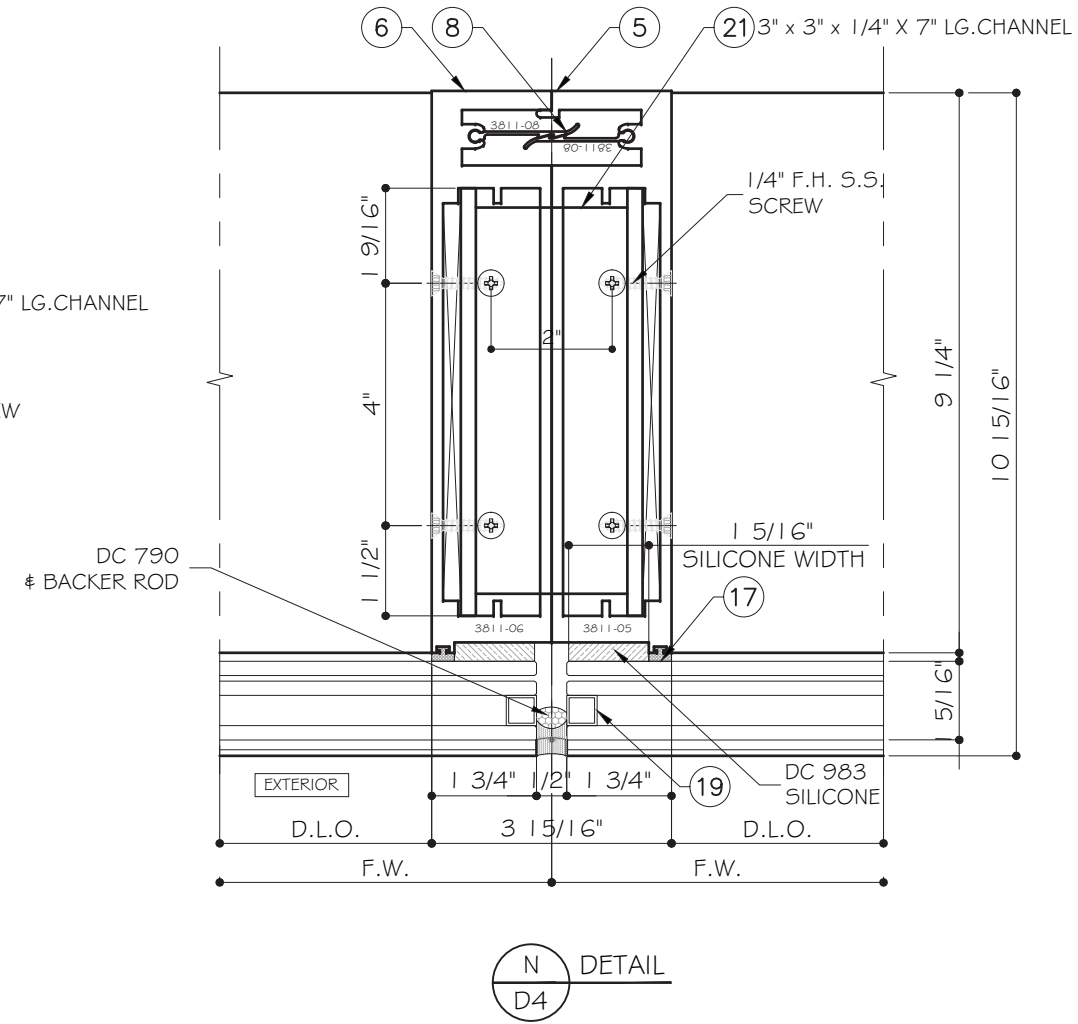
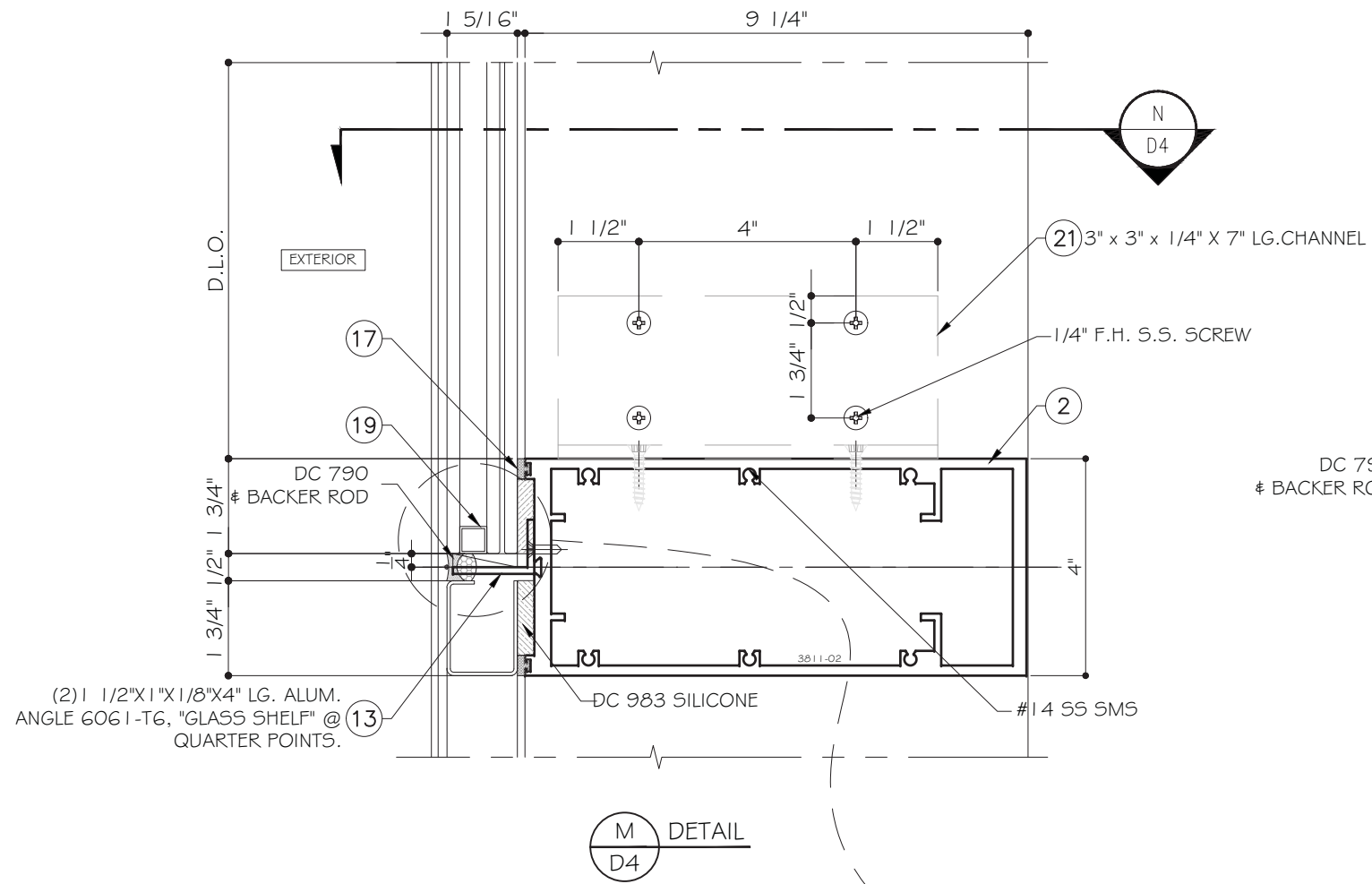
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DRAWING NO. 17-25

Sheet No. 16 OF 20



(2) 1 1/2"x1"x1/8"x4" LG. ALUM. ANGLE 6061-T6, "GLASS SHELF" @ QUARTER POINTS.

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. 17-25

Sheet No. D4

17 OF 20

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 Ave. Ste. 205A P: 305.271.0117
MIAMI, FL 33183 F: 305.279.6818

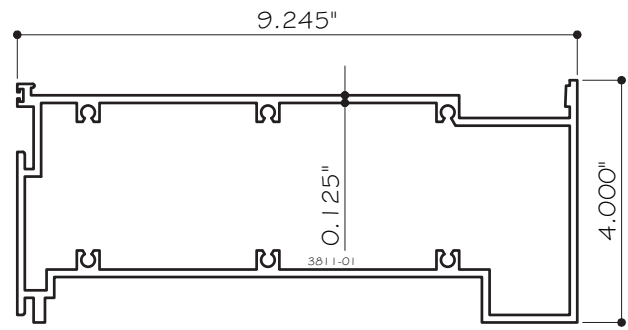
www.MCYEngineering.com MCY.Engineering@ATT.net

SYSTEM 3811 WINDOW WALL - L.M.I.

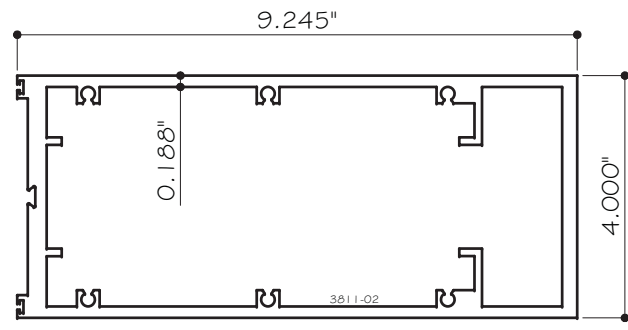
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

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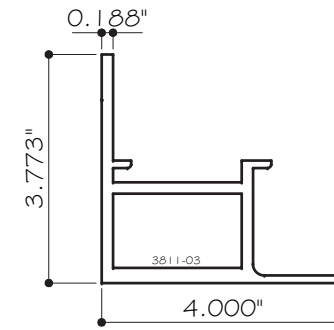
JANUARY 9TH, 2018



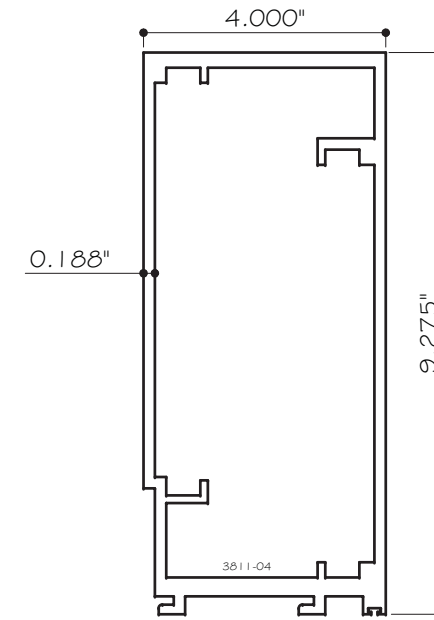
① HEAD & SILL
3811-01 ALUM. 6005-T5



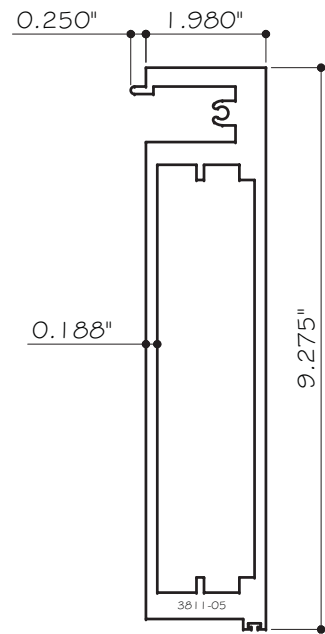
② INTERMEDIATE HORIZONTAL
3811-02 ALUM. 6005-T5



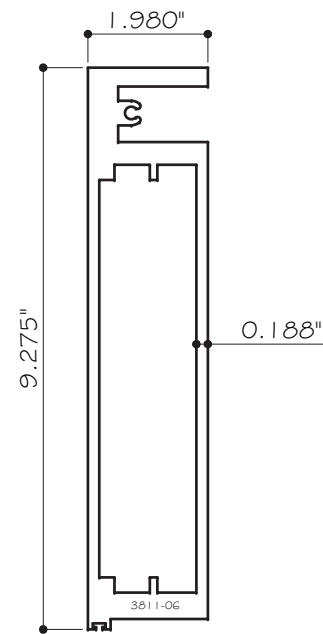
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3811-03 ALUM. 6005-T5



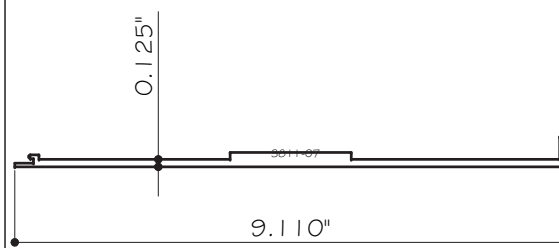
④ JAMB
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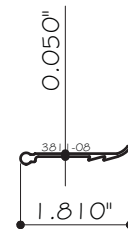
⑤ MALE MULLION
3811-05 ALUM. 6005-T5



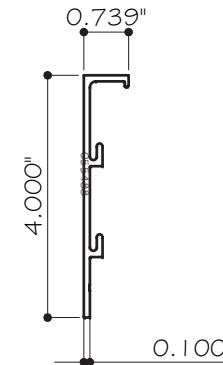
⑥ FEMALE MULLION
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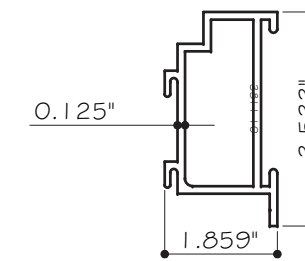
⑦ COVER
3811-07 ALUM. 6005-T5



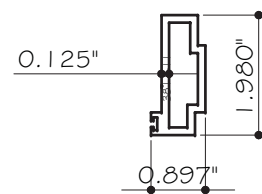
⑧ ANTI-BUCKLING CLIP
3811-08 ALUM. 6005-T5



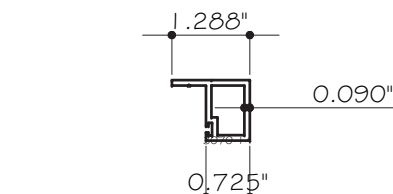
⑨ GLAZING BEAD
3800-09 ALUM. 6005-T5



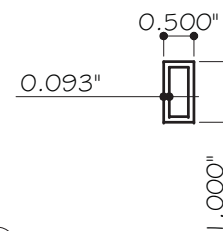
⑩ SUB FRAME
3811-10 ALUM. 6005-T5



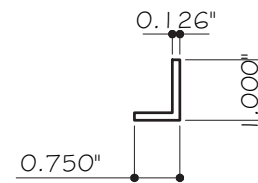
⑪ MULLION ADAPTOR
3811-11 ALUM. 6005-T5



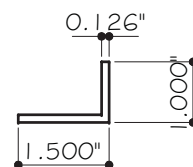
⑫ ALUM. ADAPTOR
3070-14 ALUM. 6005-T5



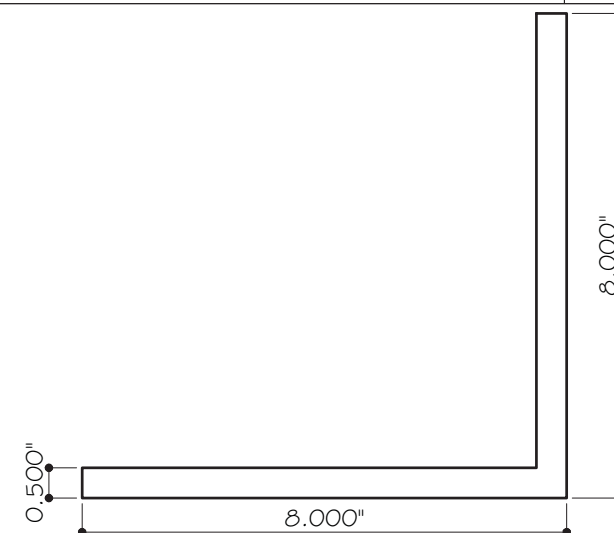
⑬ -
ALUM. 6005-T5



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.
AL-AN ALUM. 6005-T5



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

FLORIDA APPROVAL:

FL 7200

YIPING WANG

YIPING WANG, P.E.

FLORIDA REGISTRATION

NO. 55983

C.A.N. 28677

STATE OF FLORIDA

PROFESSIONAL ENGINEER

JANUARY 9TH, 2018

Rev. No.	Date	Drawn By	Description

Draw Date: 05/15/2017

Scale: DRAWING NO. 17-25

PARTS

Sheet No. 18 OF 20

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GLAZING CONSULTANTS

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MIAMI, FL. 33183 F: 205.279.6818

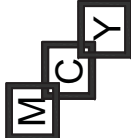
www.MCYEngineering.com MCY.Engineering@AII.net

SYSTEM 3811 WINDOW WALL - L.M.I.

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

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
21	-	3" X 3" X 1/4" X 7" LG. CHANNEL	STEEL, A36 MIN.	-



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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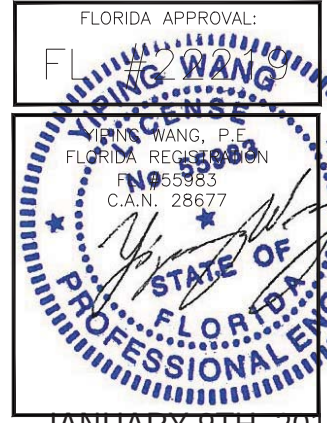
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TEL. (305) 231-1101 FAX. (305) 231-1103

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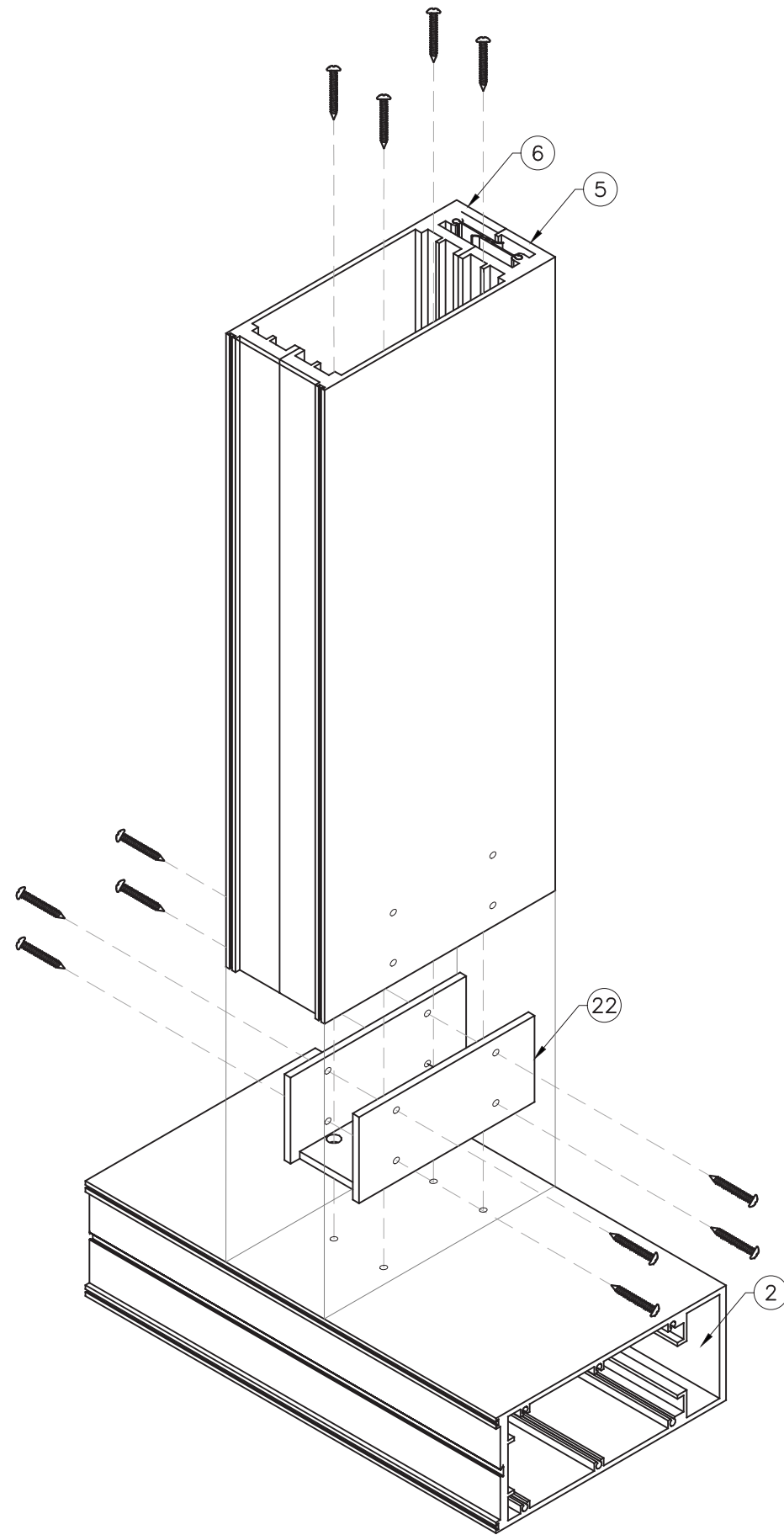
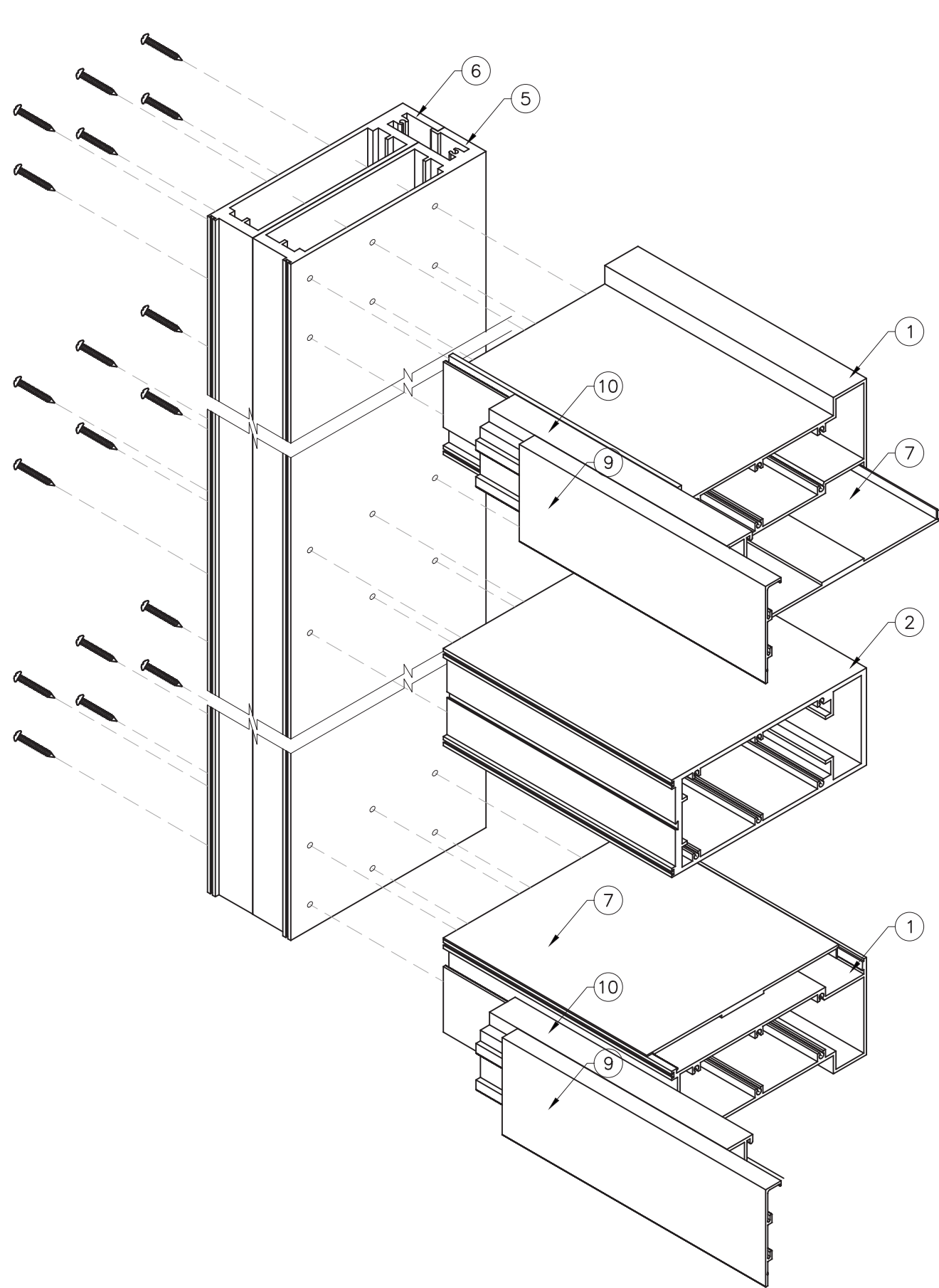


YIENN WANG, P.E.
FLORIDA REGISTRATION NO. 55983
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

Draw Date	05/19/2017	Scale	
DRAWING NO.			
17-25			
BOM			
Sheet No.			
19 OF 20			

JANUARY 9TH, 2018



FLORIDA APPROVAL:
 FL 7200
 YIPING WANG
 YIPING WANG, P.E.
 FLORIDA REGISTRATION
 NO. 55983
 C.A.N. 28677

Rev. No.	Date	Drawn By	Description

Draw Date: 05/19/2017
 Scale: 150
 DRAWING NO.: 17-25
 Sheet No.: 20 OF 20

SYSTEM 3811 WINDOW WALL - L.M.I.
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JANUARY 9TH, 2018