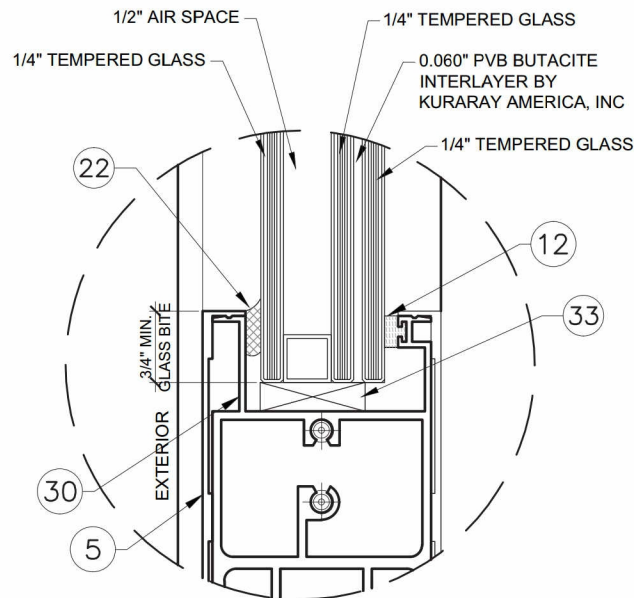
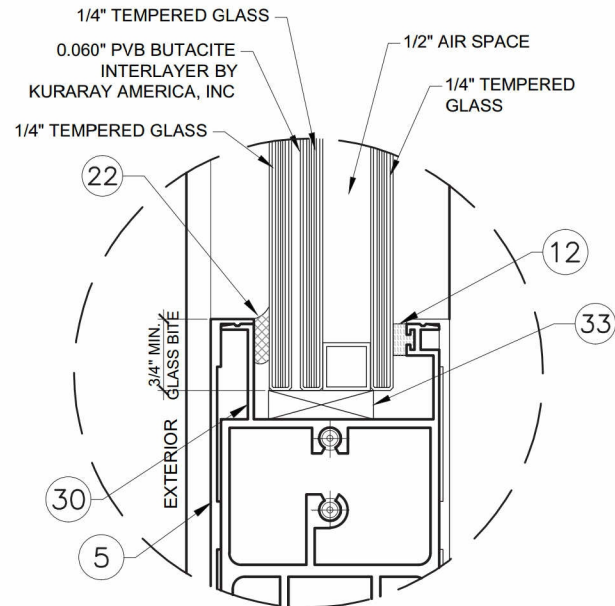


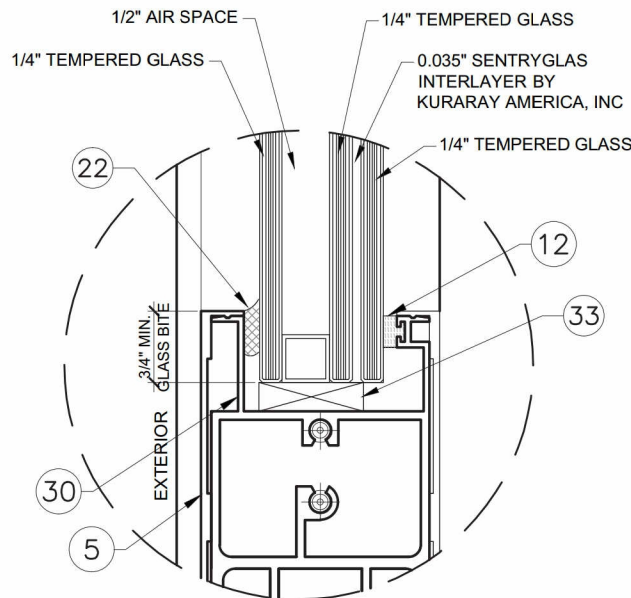
# CONTINENTAL GLASS SYSTEMS, LLC. SERIES 2850 LIFT AND SLIDING GLASS DOOR SMALL MISSILE IMPACT (SMI)



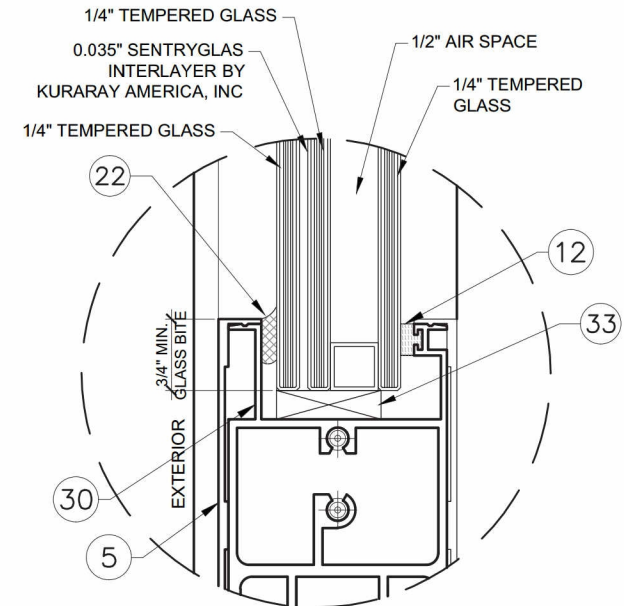
**GLASS TYPE "G2"**  
1 5/16" INSULATED LAMINATED GLASS  
LAMINATED ON INTERIOR SIDE



**GLASS TYPE "G2A"**  
1 5/16" INSULATED LAMINATED GLASS  
LAMINATED ON EXTERIOR SIDE



**GLASS TYPE "G3"**  
1 5/16" INSULATED LAMINATED GLASS  
LAMINATED ON INTERIOR SIDE



**GLASS TYPE "G3A"**  
1 5/16" INSULATED LAMINATED GLASS  
LAMINATED ON EXTERIOR SIDE

**GENERAL NOTES:**

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR ELEVATIONS ABOVE 30'-0" FROM GRADE. IMPACT SHUTTERS ARE REQUIRED FOR ELEVATIONS BELOW 30'-0" FROM GRADE.
- THESE DOORS 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 FLORIDA BUILDING CODE 5TH EDITION (2014) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS, LLC. 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.

-TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED

TYPE 'B' -- 5/16" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.)  
INTO METAL STRUCTURES  
STEEL: 1/8" THK. MIN. (6063-T5 MIN.)  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE  
INTO CONCRETE = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1-1/4" MIN.(5/16" ANCHORS )  
INTO METAL STRUCTURE = 3/4" MIN.

**-SEALANTS:**

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

**NOTE:**

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

**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.

SERIES 2850

FL #21079.1

ABBREVIATIONS AND SYMBOLS	
D.L.O.- DAYLITE OPENING	
F.H. - FRAME HEIGHT	
F.W. - FRAME WIDTH	
W - WITH	
WO - WITHOUT	
O.C - ON CENTER	
SGD - SLIDING GLASS DOOR	

**SECTION NUMBER**

**SHEET WHERE SECTION IS DRAWN**

NO	DATE	REVISIONS	DESCRIPTION

**MCY**

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

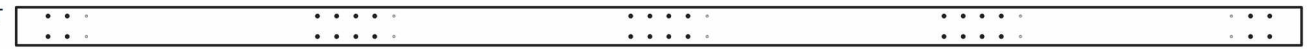
8501 SW 124 Ave, Ste. 205A  
MIAMI, FL 33183  
P: 305.271.0117  
F: 305.279.6818  
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SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

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325 WEST 74 PLACE HIALEAH, FL 33014  
TEL (305) 231-1101 FAX (305) 231-1103

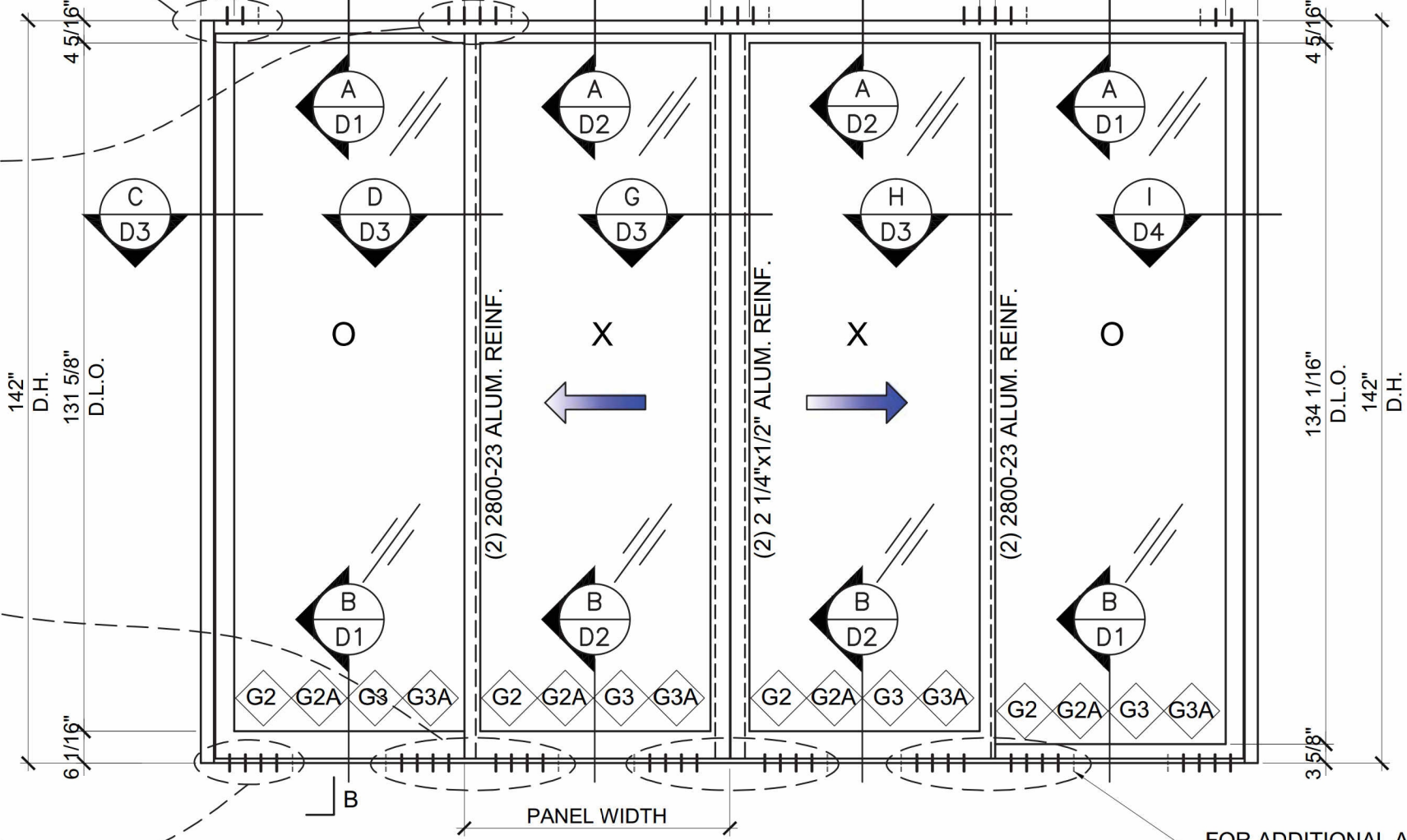
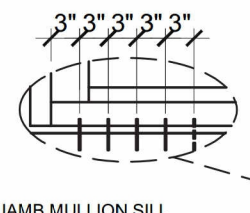
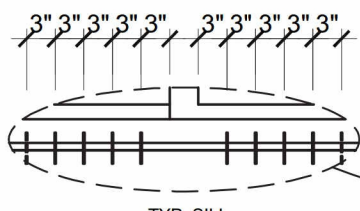
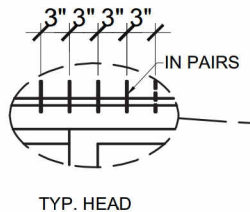
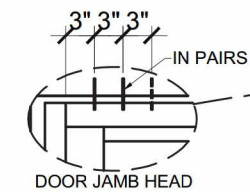
COVER	
DATE	08/26/16
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	15-150
DRAWING NO.	AD15-77
1 OF 13	

ANCHORS LAYOUT AT HEAD



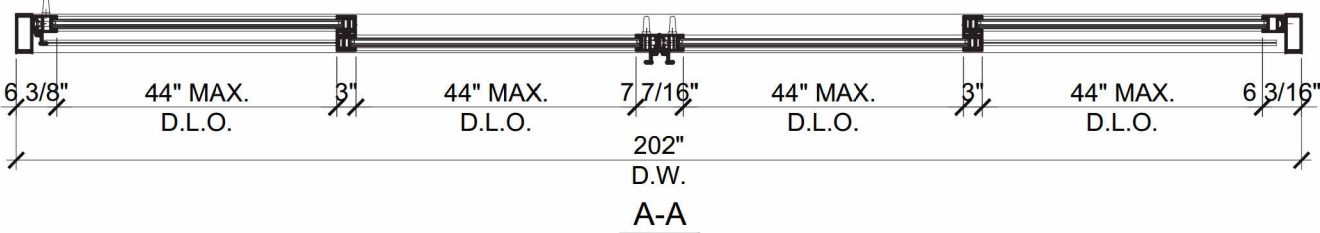
202" MAX. FRAME WIDTH (F.W.)

6,3/8" 44" MAX. D.L.O. 3" 44" MAX. D.L.O. 7,7/16" 44" MAX. D.L.O. 3" 44" MAX. D.L.O. 6,3/16"



MAXIMUM DESIGN LOAD  
SEE CHART ON SHEET T2

TYPICAL EXTERIOR ELEVATION (OXXO)  
REINFORCED - STANDARD



DAYLITE OPENING DIMENSIONS:  
D.L.O. WIDTH =  $\frac{F.W.}{\# \text{ OF PANELS}} - 6.5"$   
D.L.O. HEIGHT = F.H. - 7 15/16"  
PANEL HEIGHT = FRAME HEIGHT - 2.75"  
NOMINAL PANEL WIDTH =  $\frac{F.W.}{\# \text{ OF PANELS}}$

NO	DATE	REVISIONS	DESCRIPTION

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F: 305.279.6818  
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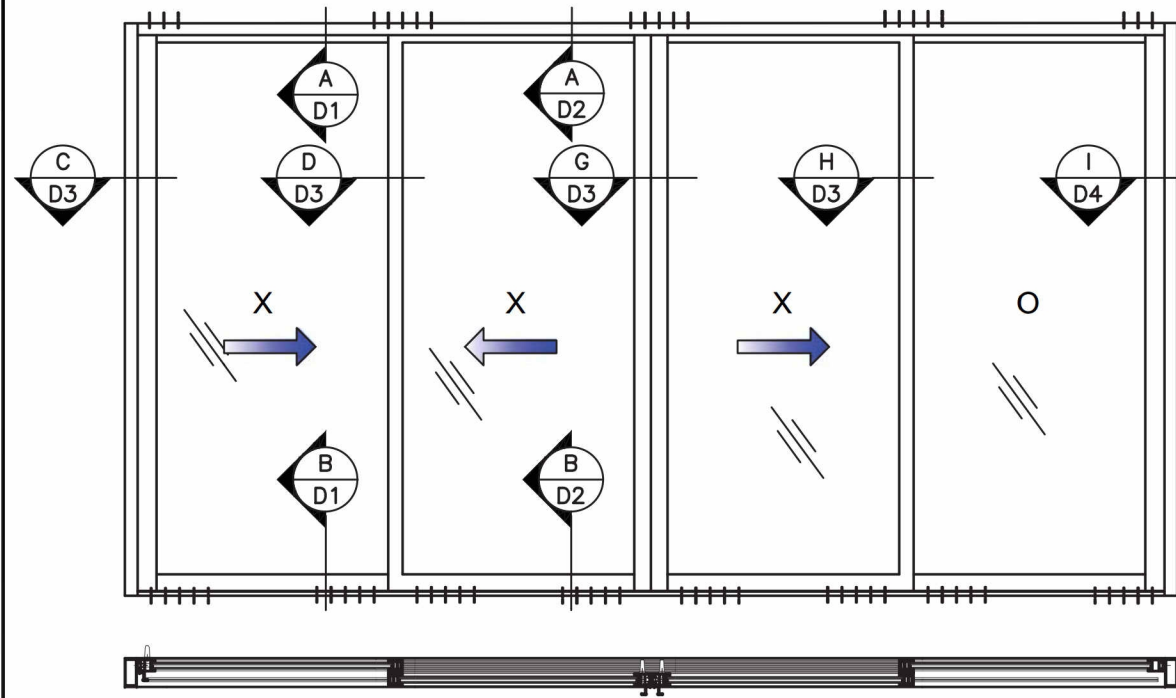
SERIES 2850  
FL #21079.1  
YIPING WANG P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.C. #26677  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

E1
DATE 08/26/16
SCALE AS SHOWN
DRAWN T.G.
PROJECT 15-150
DRAWING NO. AD15-77
2 OF 13

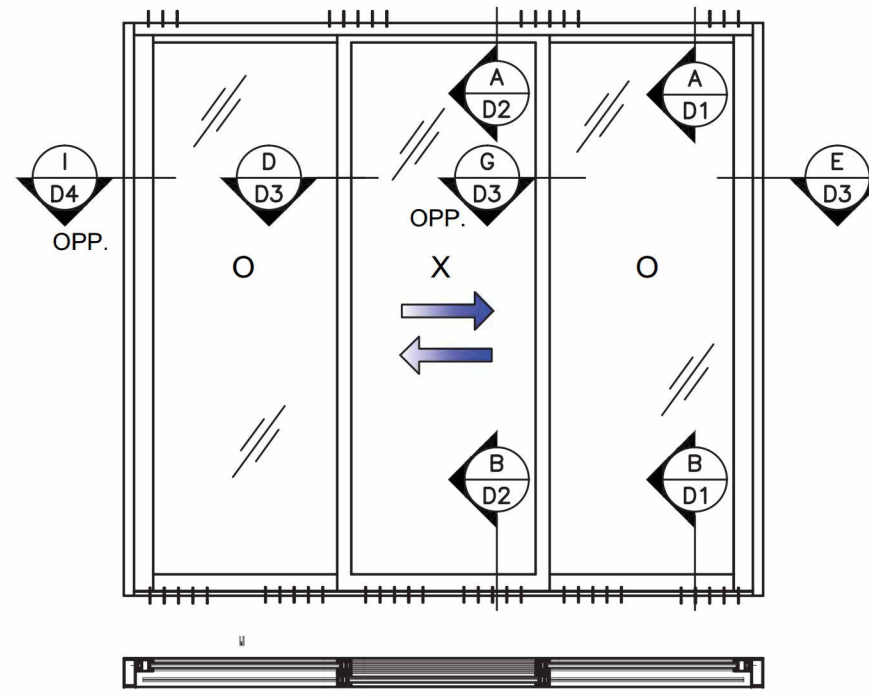
August 26th, 2016

# TYPICAL SGD OPTIONAL CONFIGURATIONS

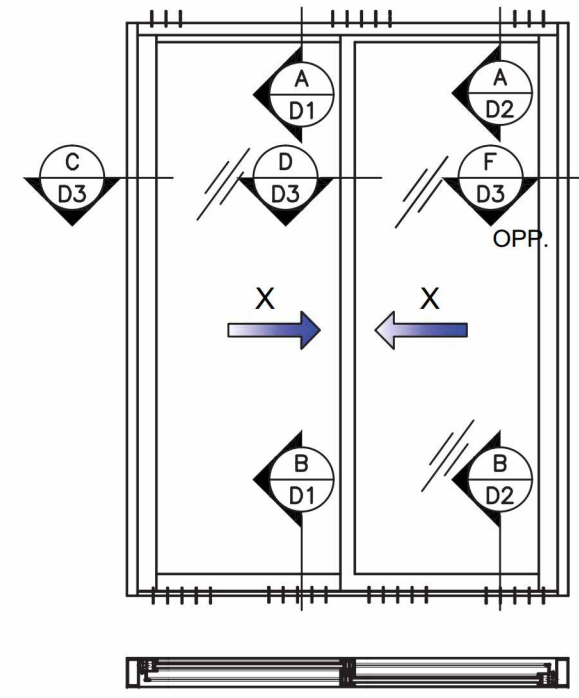
ALL SGD TYPES CAN BE USED WITH OR WITHOUT WINDOW WALL AT EITHER SIDE OF SGD.



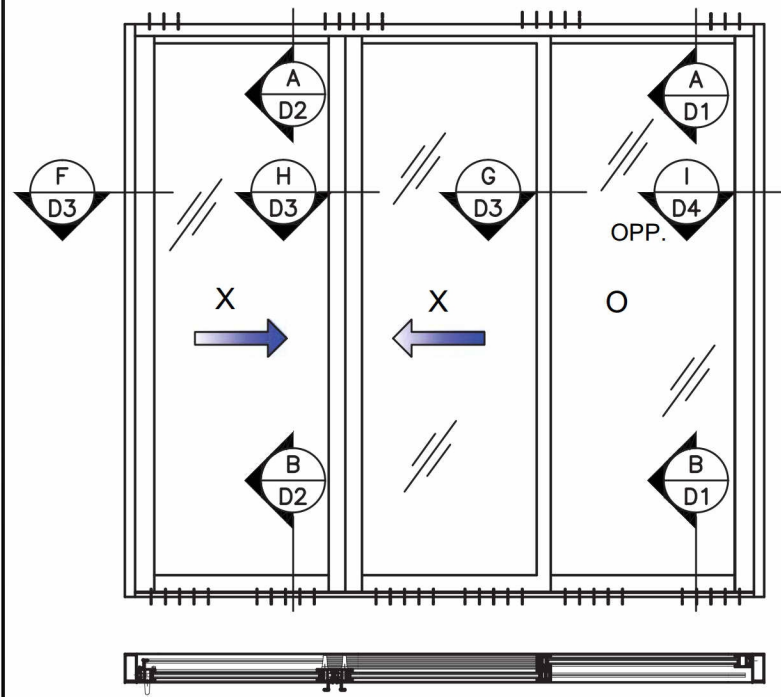
(4) PANELS SGD XXXO



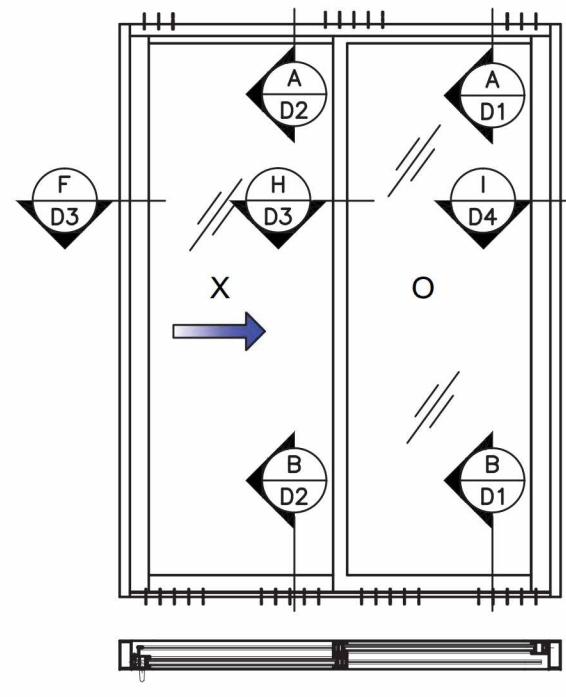
(3) PANELS SGD OXO



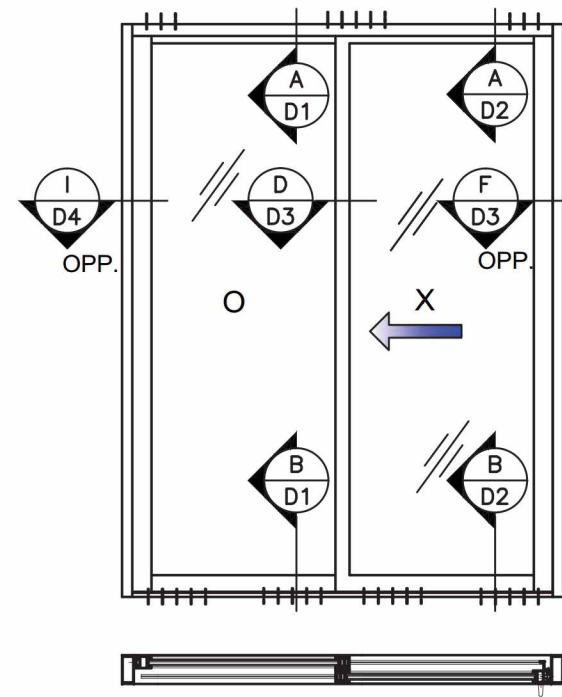
(2) PANELS SGD XX



(3) PANELS SGD XXO



(2) PANELS SGD XO



(2) PANELS SGD OX

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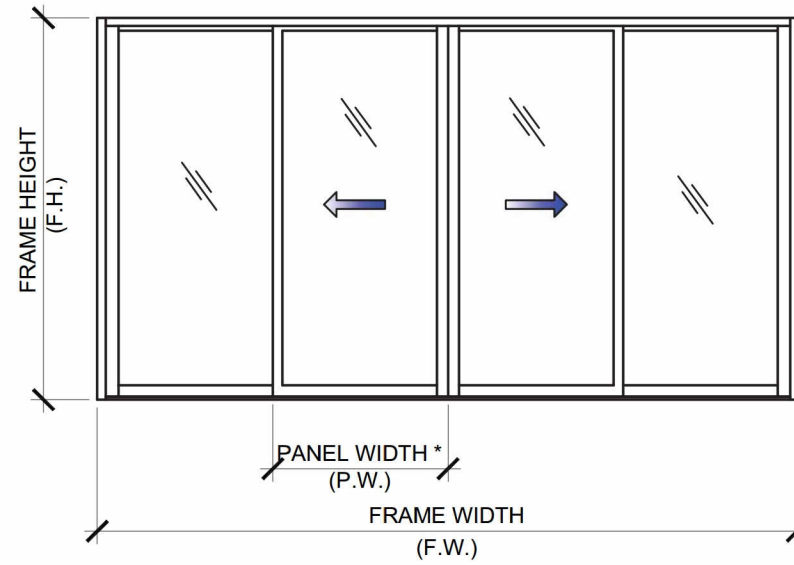
SERIES 2850  
 FL #21079.1  
 YIPING WANG P.E.  
 LICENSE #55983  
 No. 55983  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

<b>E3</b>
DATE 08/26/16
SCALE AS SHOWN
DRAWN T.G.
PROJECT 15-150
DRAWING NO. AD15-77
<b>3 OF 13</b>

**DESIGN LOAD CAPACITIES (PSF)**

SGD SIZE		MAX. ALLOWABLE DESIGN LOAD	
MAX. P.W.	F.H.	(+)	(-)
(IN)	(IN)	(PSF)	(PSF)
2 PANELS, 3 PANELS, OR 4 PANELS			
50.5	142	126.0	126.0
42	96	126.0	126.0
48		126.0	126.0
54		126.0	126.0
60		126.0	126.0
42	102	126.0	126.0
48		126.0	126.0
54		126.0	126.0
60		126.0	126.0
42	108	126.0	126.0
48		126.0	126.0
54		126.0	126.0
60		126.0	126.0
42	114	126.0	126.0
48		126.0	126.0
54		126.0	126.0
60		126.0	126.0
42	120	126.0	126.0
48		126.0	126.0
54		126.0	126.0
60		125.5	125.5
42	126	126.0	126.0
48		126.0	126.0
54		126.0	126.0
42	132	126.0	126.0
48		126.0	126.0
54		126.0	126.0
42	138	126.0	126.0
48		126.0	126.0
52		125.9	125.9
42	142	126.0	126.0
48		126.0	126.0
50.5		126.0	126.0

\*NOTE: PANEL WIDTH (P.W.) =  $\frac{\text{SGD FRAME WIDTH}}{\text{NUMBER OF PANELS}}$



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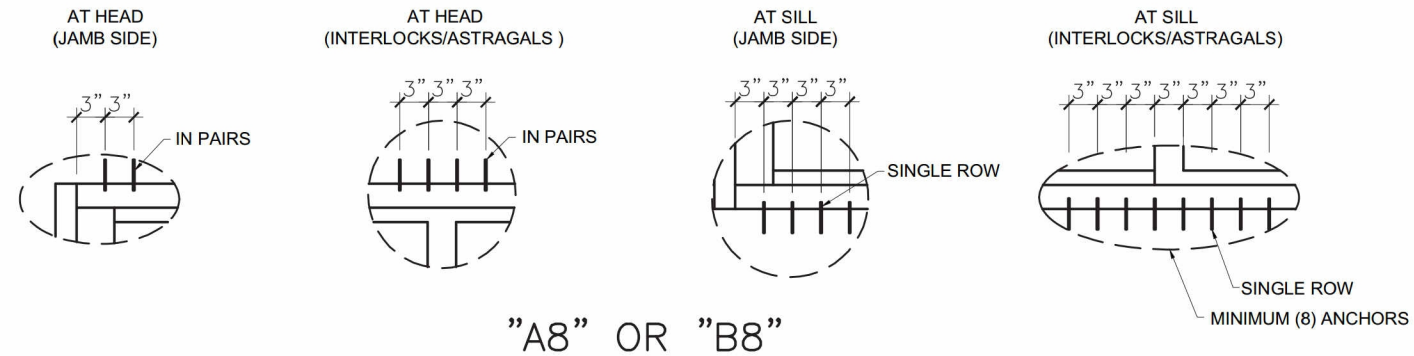
SERIES 2850  
 FL #21079.1  
**YIPING WANG**  
 P.E.  
 FLORIDA REGISTRATION  
 PE #55983  
 C. #26677  
 No 55983  
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T1	
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PROJECT	15-150
DRAWING NO.	AD15-77
4 OF 13	

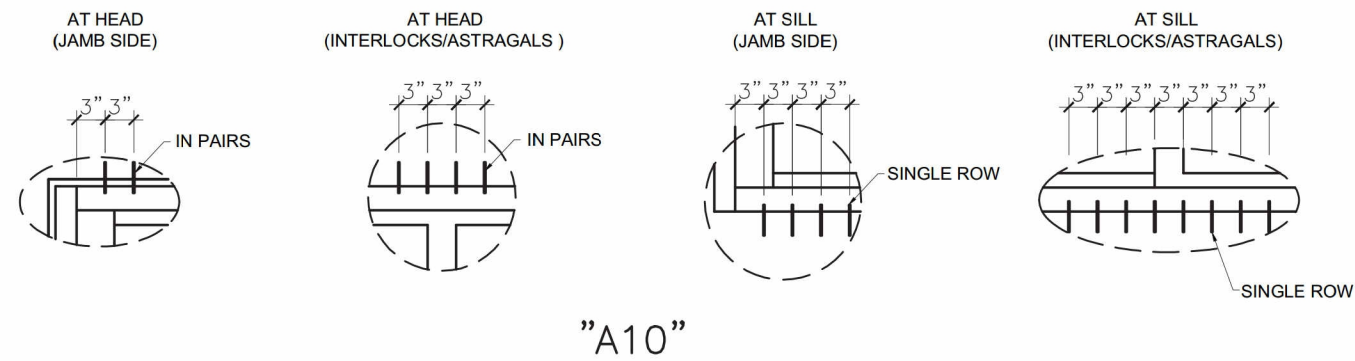
August 26th, 2016

DESIGN LOADS DUE TO ANCHOR CAPACITY				
		HEAD ANCHOR		SILL ANCHOR
SGD PANEL SIZE		A8	B8	A8
MAX. P.W.	F.H.	(+)/(-)	(+)/(-)	(+)/(-)
(IN)	(IN)	(PSF)	(PSF)	(PSF)
42	96	126.0	126.0	126.0
48		126.0	126.0	126.0
54		126.0	126.0	126.0
60		126.0	126.0	126.0
42	102	126.0	126.0	126.0
48		126.0	126.0	126.0
54		126.0	126.0	126.0
60		126.0	126.0	126.0
42	108	126.0	126.0	126.0
48		126.0	126.0	126.0
54		126.0	126.0	126.0
60		126.0	126.0	126.0
42	114	126.0	126.0	126.0
48		126.0	126.0	126.0
54		126.0	126.0	126.0
60		122.9	126.0	122.9
42	120	126.0	126.0	126.0
48		126.0	126.0	126.0
54		126.0	126.0	126.0
60		116.8	126.0	116.8
42	126	126.0	126.0	126.0
48		126.0	126.0	126.0
54		123.6	126.0	123.6
60		126.0	126.0	126.0
42	132	126.0	126.0	126.0
48		126.0	126.0	126.0
54		118.0	126.0	118.0
60		126.0	126.0	126.0
42	138	126.0	126.0	126.0
48		126.0	126.0	126.0
54		117.2	126.0	117.2
60		126.0	126.0	126.0
42	142	126.0	126.0	126.0
48		123.4	126.0	123.4
54		117.3	126.0	117.3

UNITS WITH \* TO ADD (1) PAIR OF ANCHOR TYPE "A" AT HEAD OR SILL. DESIGN LOAD WILL MEET 126 PSF.



"A8" - ANCHOR TYPE 'A' (8) AT INTERLOCKS/ASTRAGALS (4) AT JAMB ENDS, AT HEAD AND SILL,  
 "B8" - ANCHOR TYPE 'B' (8) AT INTERLOCKS/ASTRAGALS (4) AT JAMB ENDS, AT HEAD AND SILL



"A10" - ANCHOR TYPE 'A' (10) AT INTERLOCKS/ASTRAGALS (5) AT JAMB ENDS, AT HEAD AND SILL,

REVISIONS	DESCRIPTION
NO	DATE

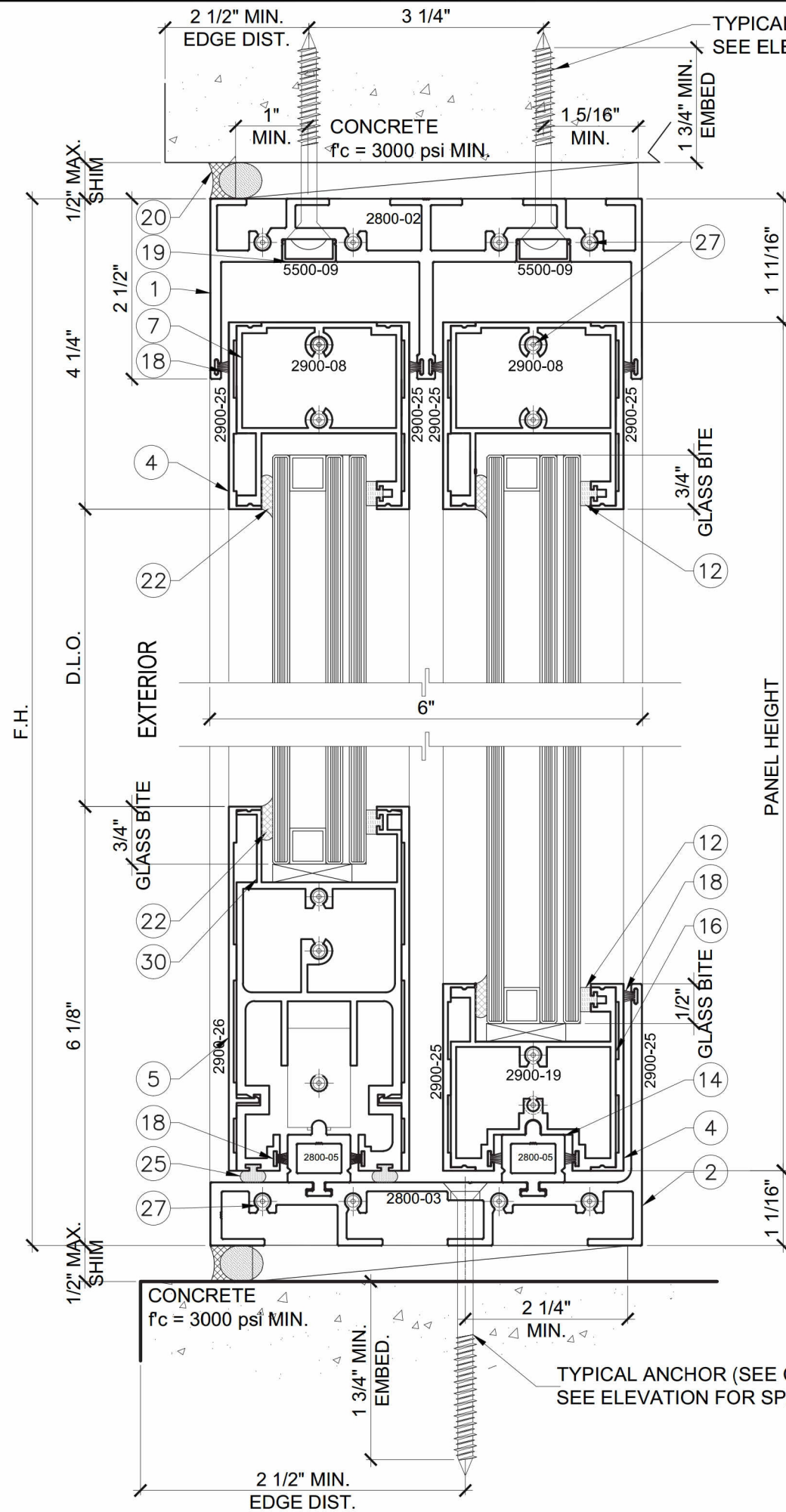
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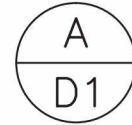
SERIES 2850  
 FL #21079.1  
**YIPING WANG** P.E.  
 FLORIDA REGISTRATION  
 PE #55983  
 C. #26677  
 No 55983  
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 PROFESSIONAL ENGINEER

T2	
DATE	08/26/16
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DRAWN	T.G.
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DRAWING NO.	AD15-77
5 OF 13	

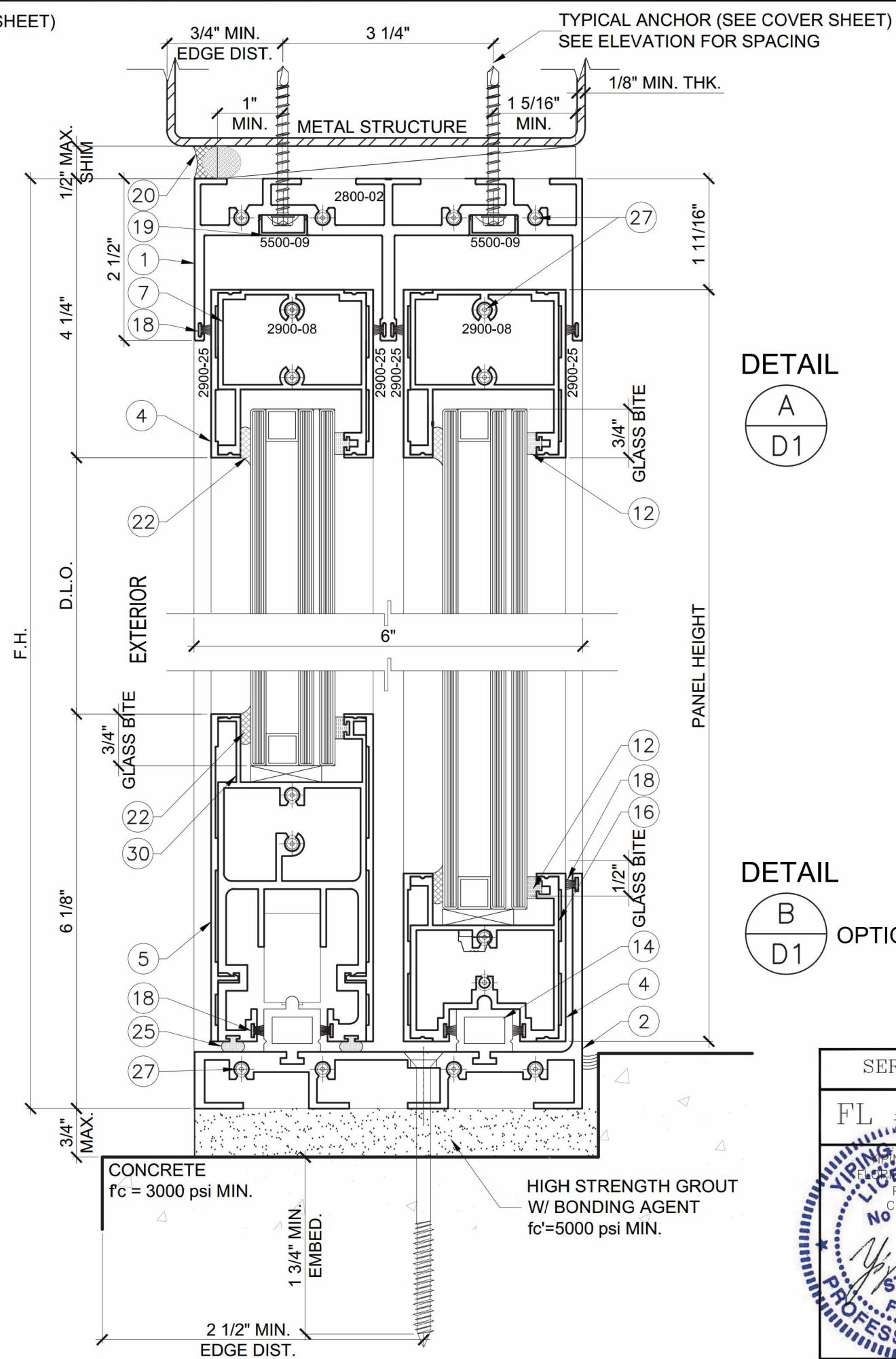
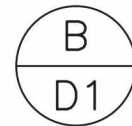
August 26th, 2016



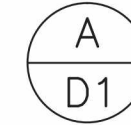
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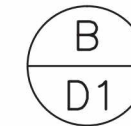
DETAIL



DETAIL



DETAIL



SERIES 2850

FL #21079.1

YIPING WANG P.E.  
FLORIDA REGISTRATION  
PE #55983  
C. #26677

No 55983

STATE OF FLORIDA  
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

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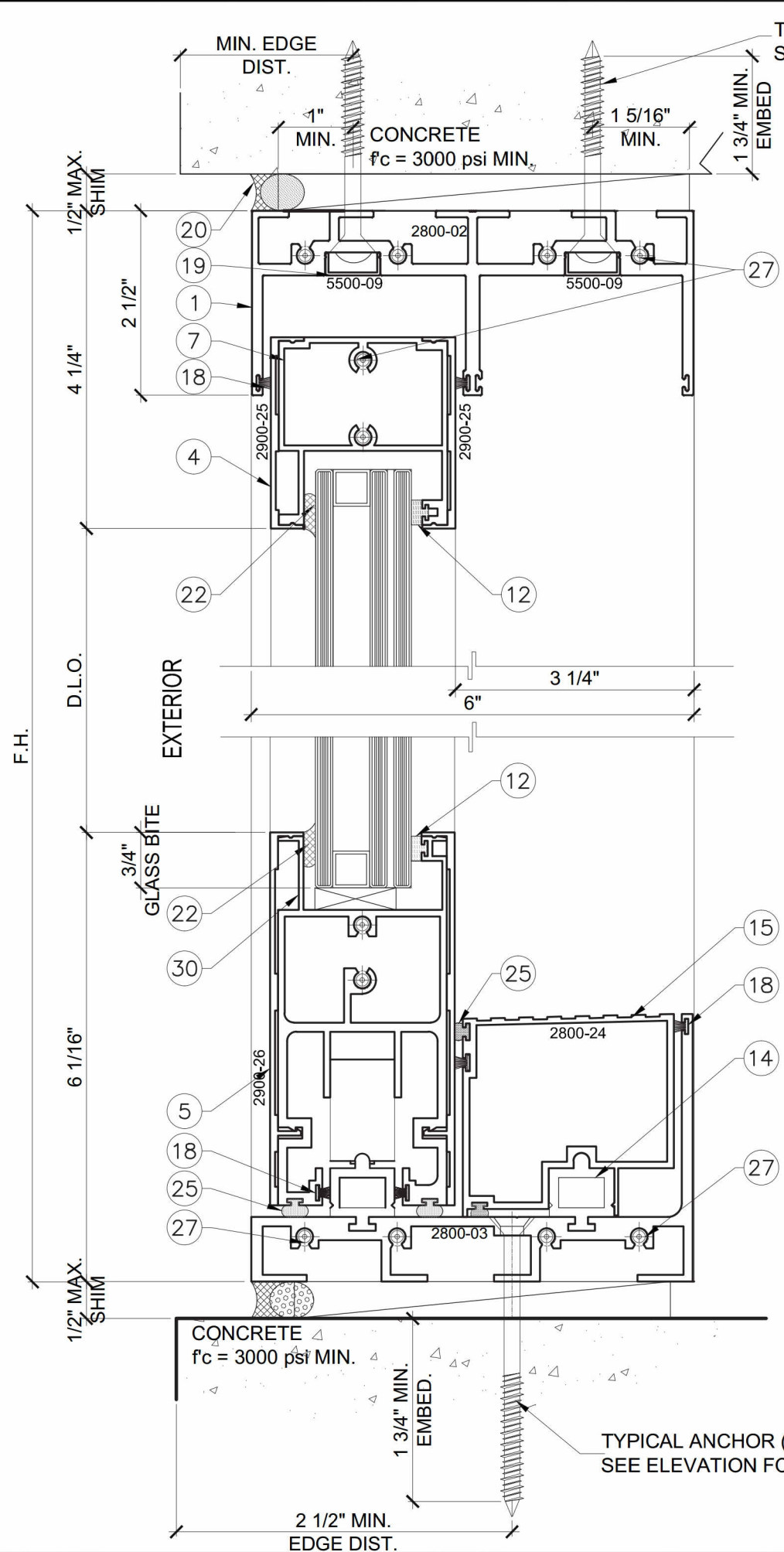
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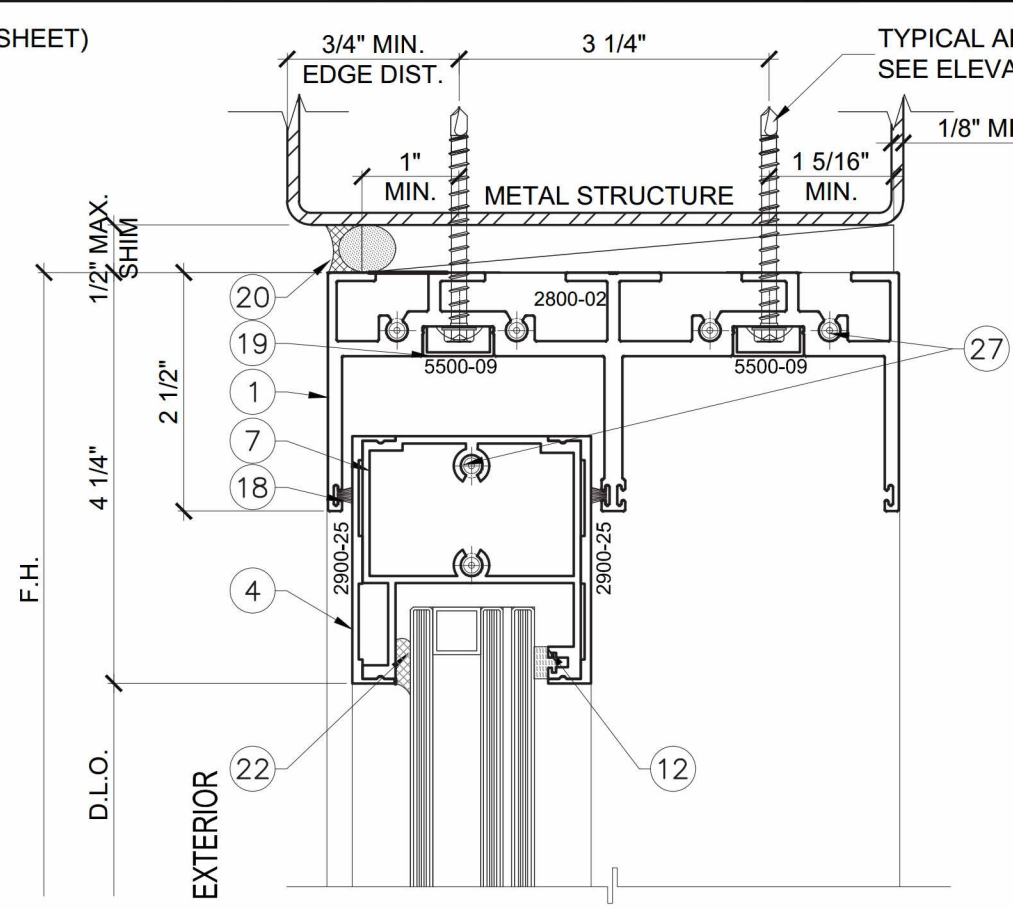
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D1
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DRAWING NO. AD15-77
6 OF 13

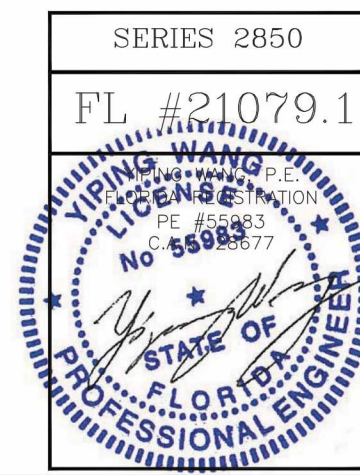


DETAIL  
A  
D2



DETAIL  
B  
D2

DETAIL  
C  
D2



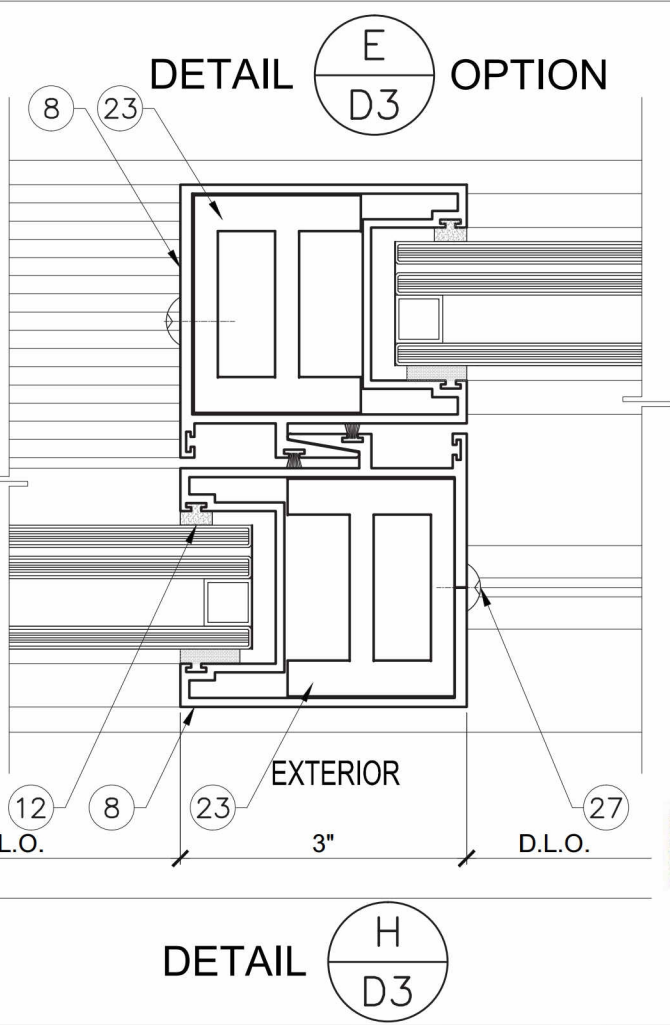
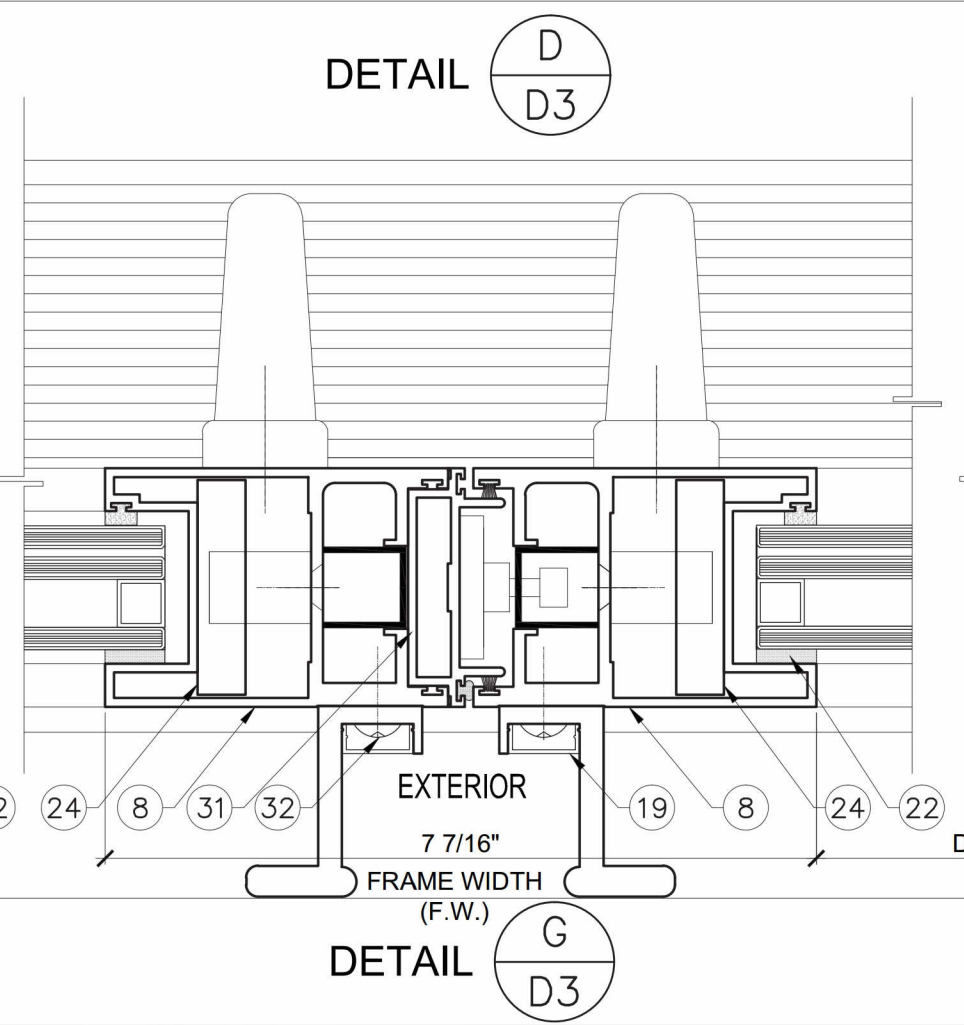
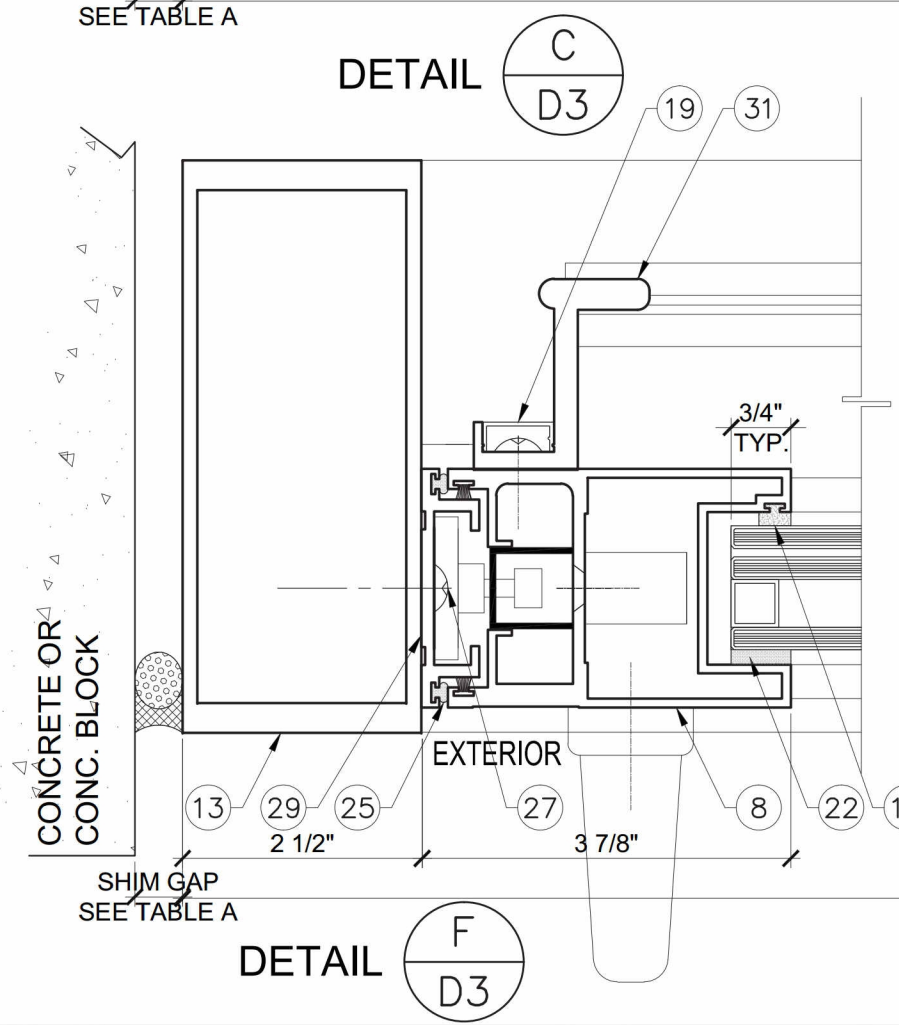
NO.	DATE	REVISIONS	DESCRIPTION

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DRAWN	T.G.
PROJECT	15-150
DRAWING NO.	AD15-77
7 OF 13	

August 26th, 2016



**TABLE A**

FRAME HEIGHT	JAMB GAP	
	MIN.	MAX.
≤ 90"	5/16"	1-1/2"
96"	5/16"	1-1/2"
102"	5/16"	1-1/2"
108"	5/16"	1-1/2"
114"	5/16"	1-1/2"
120"	3/8"	1-1/2"
126"	3/8"	1-1/2"
128"	3/8"	1-1/2"
130"	3/8"	1-1/2"

SERIES 2850

FL #21079.1

YIPING WANG, P.E.  
 LICENSE # 55983  
 No. 55983

STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	DESCRIPTION

**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS

8501 SW 124 Ave. Ste. 205A  
 MIAMI, FL 33183

P: 305.271.0117  
 F: 305.279.6818

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

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

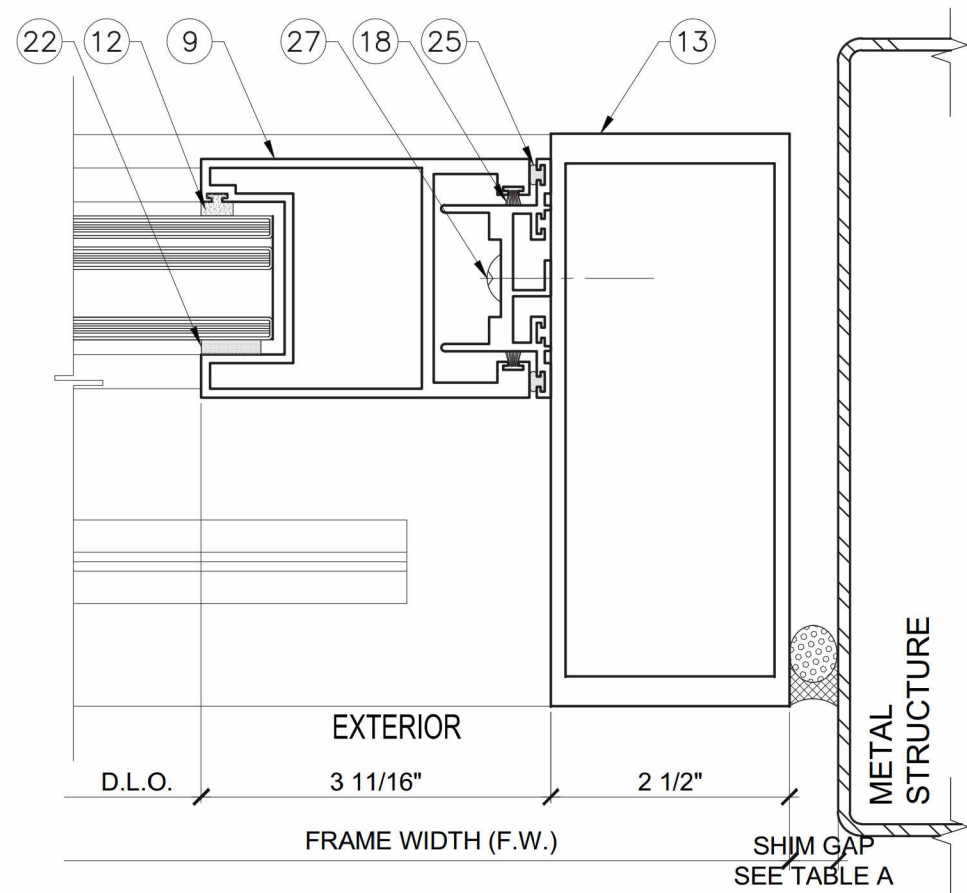
**CONTINENTAL GLASS SYSTEMS, LLC.**  
 325 WEST 74 PLACE HIALEAH, FL 33014  
 TEL (305) 231-1101 FAX (305) 231-1103

D3

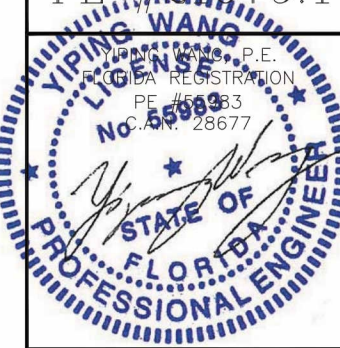
DATE	08/26/16
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	15-150
DRAWING NO.	AD15-77

8 OF 13



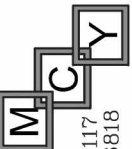


DETAIL I  
D4

SERIES 2850	
FL #21079.1	
	

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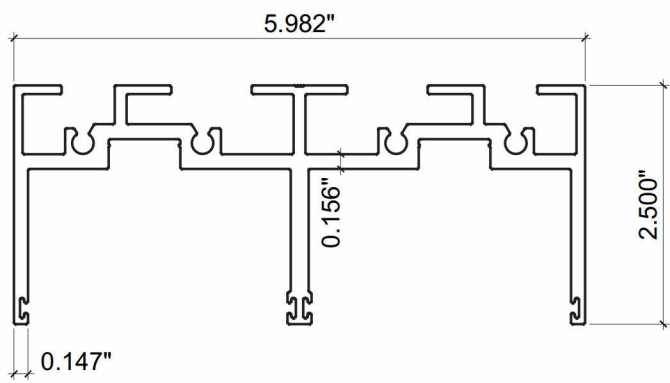


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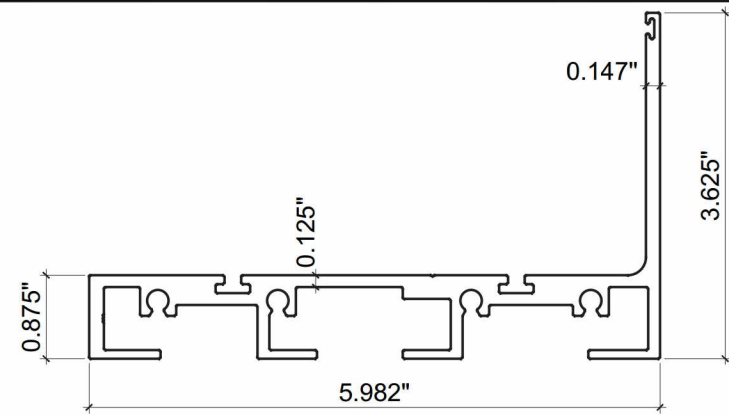
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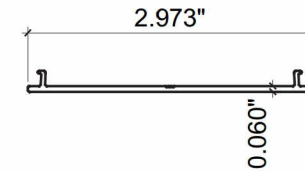
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<b>9 OF 13</b>	



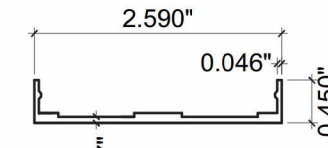
1 HEAD  
2800-02 6005-T5



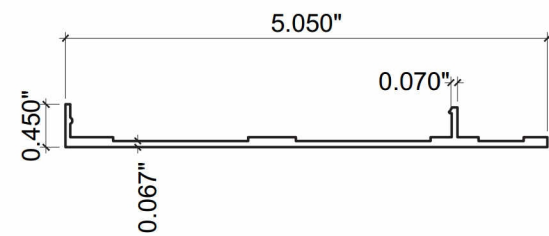
2 SILL  
2800-03 6005-T5



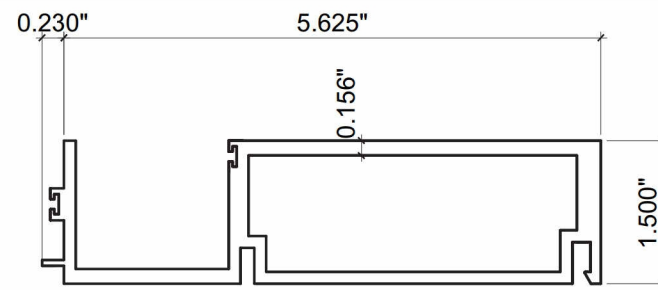
3 COVER HEAD  
2800-40 6063-T6



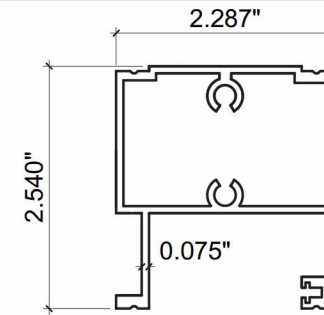
4 BOTTOM COVER  
2900-25 6063-T6



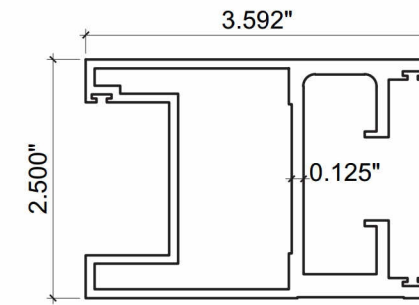
5 BOTTOM COVER  
2950-25 6063-T6



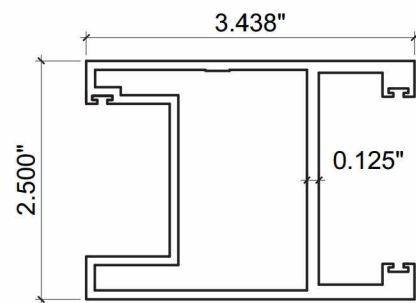
6 FEMALE  
3900-06 6005-T5



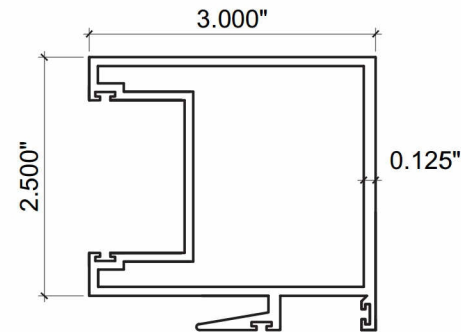
7 TOP PANEL  
2900-08 6005-T5



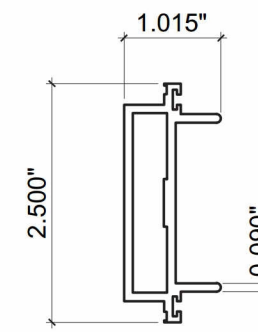
8 LOCK STILE  
2950-10 6005A



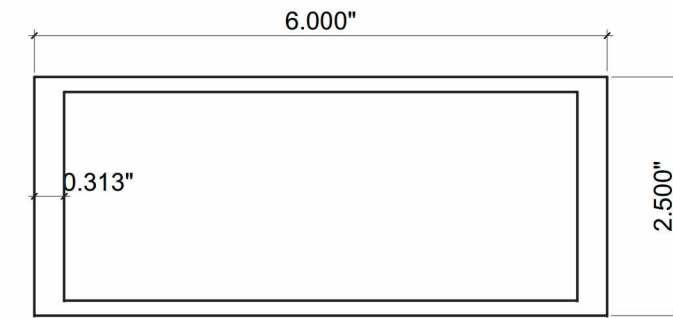
9 LOCK STILE  
2800-10 6005-T5



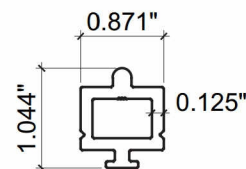
10 INTERLOCK  
2900-11 6005-T5



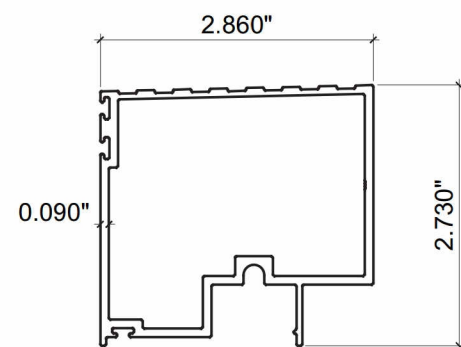
11 ASTRAGAL ADAPTOR  
2800-06 6005-T5



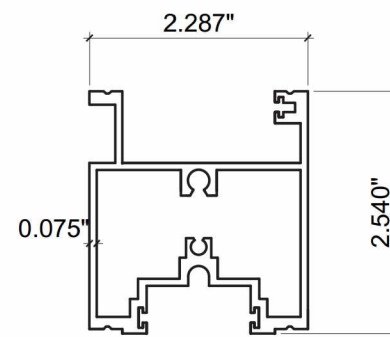
13 HEAVY JAMB  
2950-04 6005A



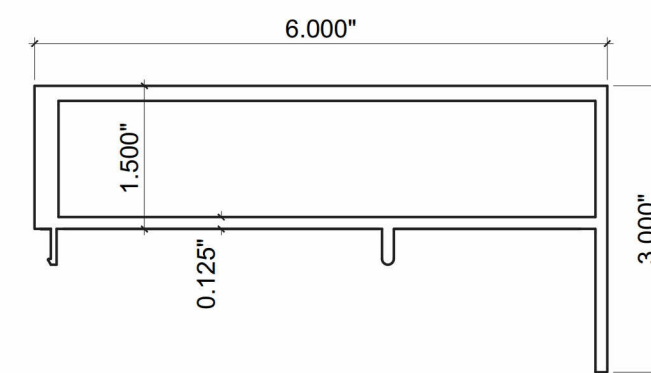
14 SILL TRACK  
2800-05 6005-T5



15 THRESHOLD  
2800-24 6063-T6



16 FIXED PANEL  
2900-19 6005-T5



17 MALE  
3900-09 6005-T5

SERIES 2850

FL #21079.1

YIPING WANG P.E.  
FLORIDA REGISTRATION  
PE #55983  
C. #26677

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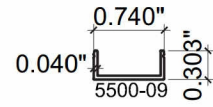
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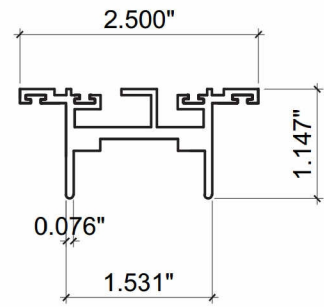
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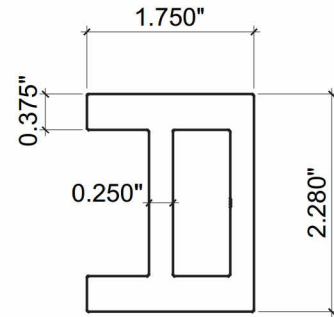
EXTRUSIONS	
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10 OF 13	



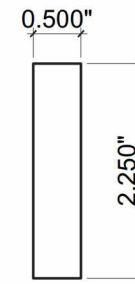
19 COVER  
5500-09 6005-T5



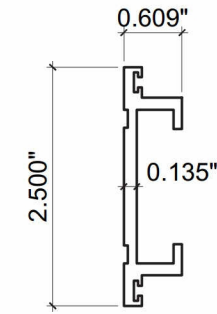
21 JAMB ADAPTOR  
2900-06 6063-T6



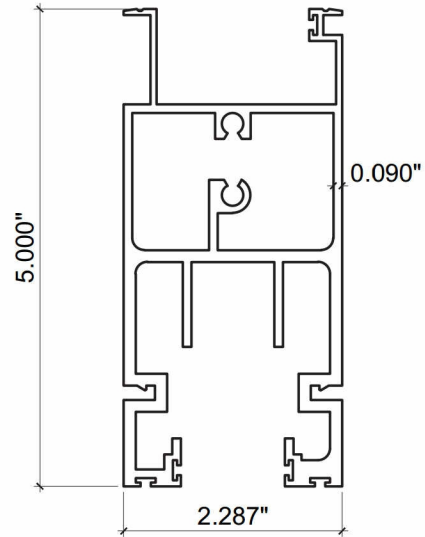
23 REINFORCING  
2800-23 6005-T5



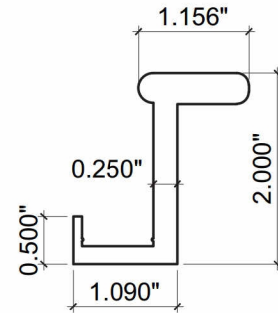
24 REINFORCING  
- 6005-T5



29 JAMB ADAPTOR  
2800-21 6005-T5



30 MOVING PANEL  
2950-09 6005A



31 HANDLE  
2800-20 6005-T5

NO.	DATE	DESCRIPTION

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DRAWING NO.	AD15-77
11 OF 13	

# BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	2800-02	HEAD	ALUM. 6005-T5	-
2	2800-03	SILL	ALUM. 6005-T5	-
3	2800-40	COVER HEAD	ALUM. 6063-T6	-
4	2900-25	BOTTOM COVER	ALUM. 6063-T6	-
5	2950-25	BOTTOM COVER	ALUM. 6063-T6	-
6	3900-06	FEMALE	ALUM. 6063-T6	-
7	2900-08	TOP PANEL	ALUM. 6005-T5	-
8	2950-10	LOCK STILE	ALUM. 6005A-T61/6005-T5	-
9	2800-10	LOCK STILE	ALUM. 6005-T5	-
10	2900-11	INTERLOCK	ALUM. 6005-T5	-
11	2800-06	ASTRAGAL ADAPTOR	ALUM. 6005-T5	-
12	-	GASKET	POLYPROPYLENE / SANTOPRENE	ULTRA FAB
13	2950-04	HEAVY JAMB	ALUM. 6005A-T61/6005-T5	-
14	2800-05	SILL TRACK	ALUM. 6005-T5	-
15	2800-24	THRESHOLD	ALUM. 6063-T6	-
16	2900-19	FIXED PANEL	ALUM. 6005-T5	-
17	3900-09	MALE	ALUM. 6005-T5	-
18	-	FIN-SEAL 0.187" X 0.250" HT	-	ULTRA FAB
19	5500-09	COVER	ALUM. 6005-T5	-
20	-	DOW CORNING DC790 CONT. PERIMETER SEALANT AND BACKER ROD	SILICONE	DOW CORNING
21	2900-06	JAMB ADAPTOR	ALUM. 6063-T6	-
22	-	DOW CORNING STRUCTURAL SEALANT DC983 OR DC795	SILICONE	DOW CORNING
23	2800-23	REINFORCEMENT	ALUM. 6005-T5	-
24	-	1/2" X 2-1/4" ALUM. REINFORCEMENT, FULL LENGTH	ALUM. 6005-T5	-
25	-	BULB GASKET #202	-	ULTRA FAB
26	-	1/4" X 3/4" X 4" SETTING BLOCK	SILICONE	-
27	-	#14 X 1" PH ST/ST SMS	STAINLESS STEEL	-
28	-	#14 X 20 P.H. ST/ST SMS AT 4" FROM END & 25" O.C. MAX.	STAINLESS STEEL	-
29	2800-21	JAMB ADAPTOR	ALUM. 6005-T5	-
30	2950-09	MOVING PANEL	ALUM. 6005A-T61/6005-T5	-
31	2800-20	HANDLE	ALUM. 6005-T5	-
32	-	1/4-20 ST/ST SMS	STAINLESS STEEL	-
33	-	SETTING BLOCK	-	-

REVISIONS	DESCRIPTION
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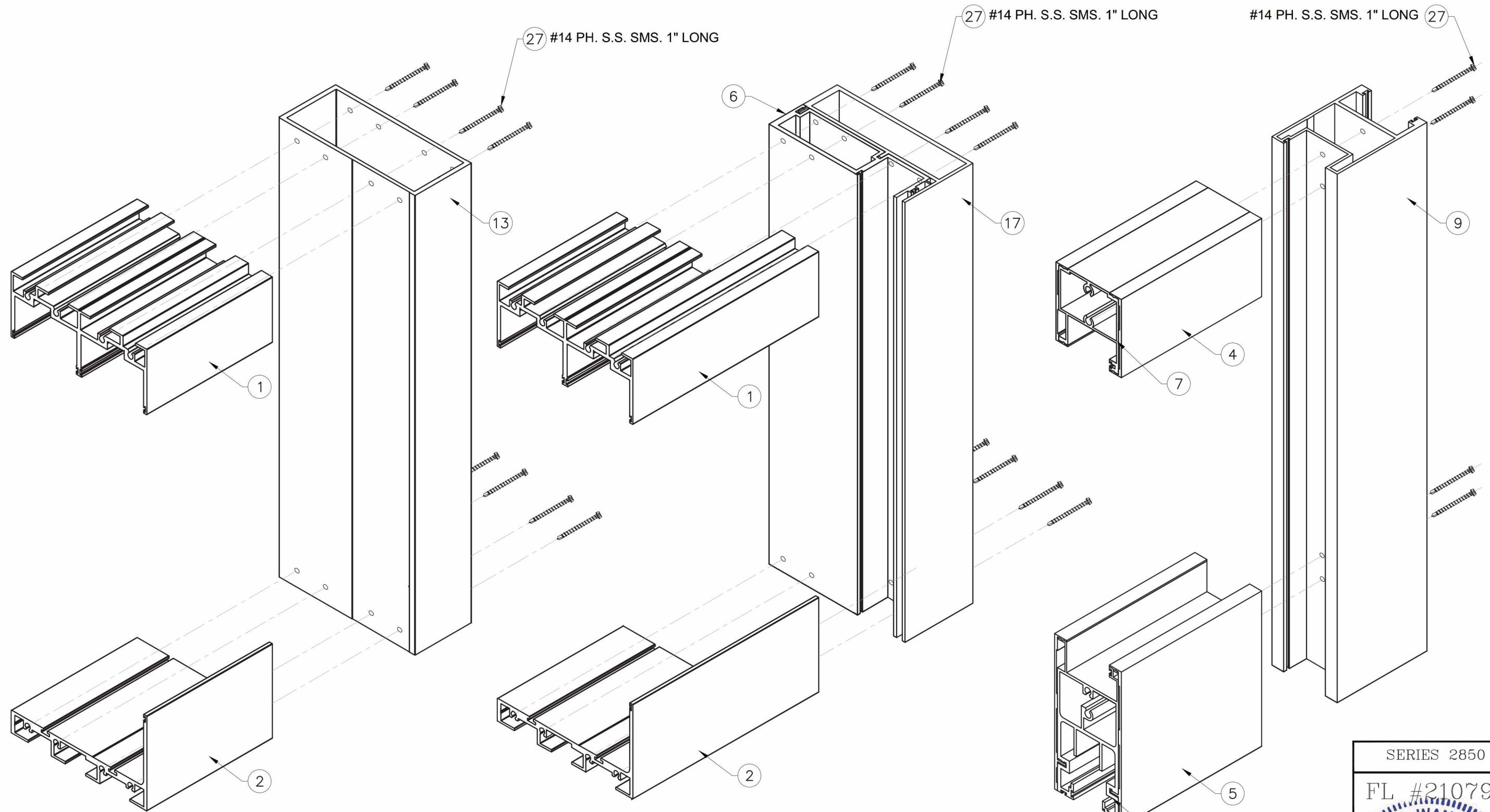
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**YIPING WANG**  
REGISTERED PROFESSIONAL ENGINEER  
FLORIDA REGISTRATION  
PE #55983  
C. #26677

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12 OF 13	



FRAME CORNER ASSEMBLY  
TOP AND BOTTOM

FRAME CORNER ASSEMBLY  
TOP AND BOTTOM

PANEL ASSEMBLY  
TOP AND BOTTOM

SERIES 2850  
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