CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
T850B WINDOW WALL SYSTEMS-WZ4
LARGE & SMALL MISSILE IMPACT
LEVEL D OR E IMPACT

WINDOW WALL SYSTEM RATED FOR LARGE AND SMALL MISSILE IMPACT.

SERIES T850B WINDOW WALL

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

LARGE MISSILE IMPACT CURTAIN WALL SYSTEM TO BE USED AT ELEVATIONS BELOW 30'-0" OF GRADE LEVEL. FOR ELEVATIONS 30'-0" ABOVE GRADE LEVEL, SMALL MISSILE IMPACT SYSTEM TO BE USED. SYSTEM TESTED FOR IMPACT LEVEL D OR E.

THIS SYSTEM IS APPROVED FOR AIR AND WATER INFILTRATION.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 6TH EDITION / 7TH EDITION FLORIDA BUILDING CODE (2020) SECTION AS APPLICABLE.

METAL STRUCTURES NOT BY CT WINODWS d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES, TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ULTIMATE LOAD OBTAINED FROM ASCE 7-16, 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.

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

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16 STANDARD.

STEP 2: SEE TYPICAL ELEVATION ON SHEET E1&E2.

STEP 3: SEE CHART 1 ON SHEET G1 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION. FOR SSG OPTION, SEE CHART 2 OR CHART 2A ON SHEET G2 FOR DESIGN LOAD CAPACITY DUE TO STRUCTURAL SILICONE.

STEP 4: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1 THRU M3. THE CAPACITY SHOULD EXCEED THE JOB REQUIRED DESIGN LOAD.

STEP 5: ANCHOR OPTION SEE SHEET A1 THRU A6 FOR TYPICAL HEAD & SILL ANCHOR TO COVER ALL CONDITIONS.

STEP 6: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

STEP 7: FOR ANCHOR CONDITION IN JOB EXCEEDS THE APPROVED LOAD, TO BE ENGINEERED SEPARATELY

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
E.J. - EXPANSION JOINT
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
LG. - LONG
STL. - STEEL
ALUM. - ALUMINUM
MULL. - MULLION
HORIZ. - HORIZONTAL
W/ - WITH
W/O - WITHOUT
VERT.- VERTICAL
O.S. - OUTSIDE
S.S. - STAINLESS STEEL
℄ - CENTER LINE
H.S. - HEAT STRENGTHENED
SSG - STRUCTURAL SILICONE GLAZED
TEMP. - TEMPERED
O.C. - ON CENTER
▶ - DEADLOAD ANCHOR
I.S. - INSIDE
WL - WIND LOAD
DL - DEAD LOAD

X / XX — X: SECTION NUMBER; XX: 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:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
CA# 28647

June 6th, 2023

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

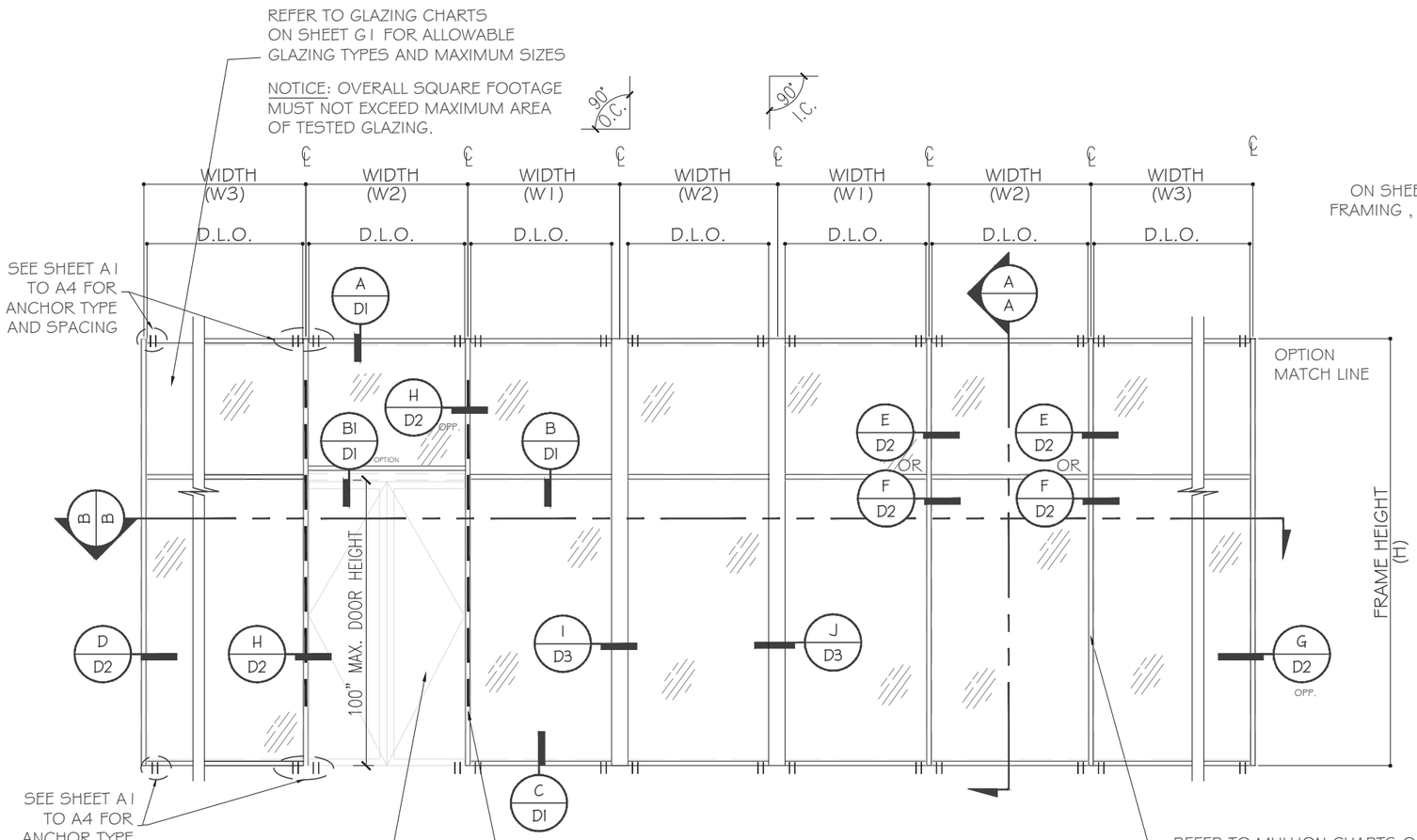
MCY ENGINEERING, INC.
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COVER

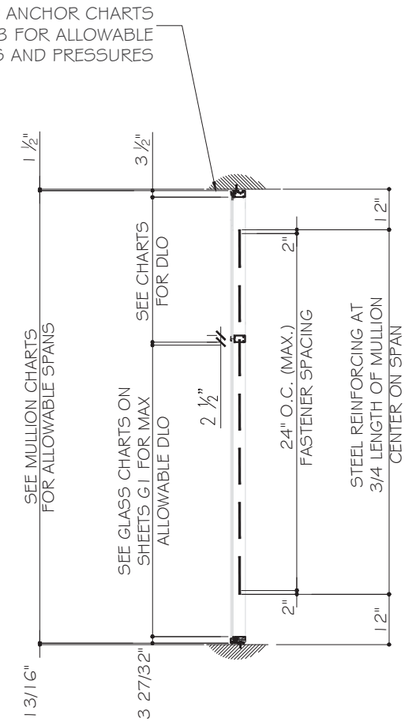
DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

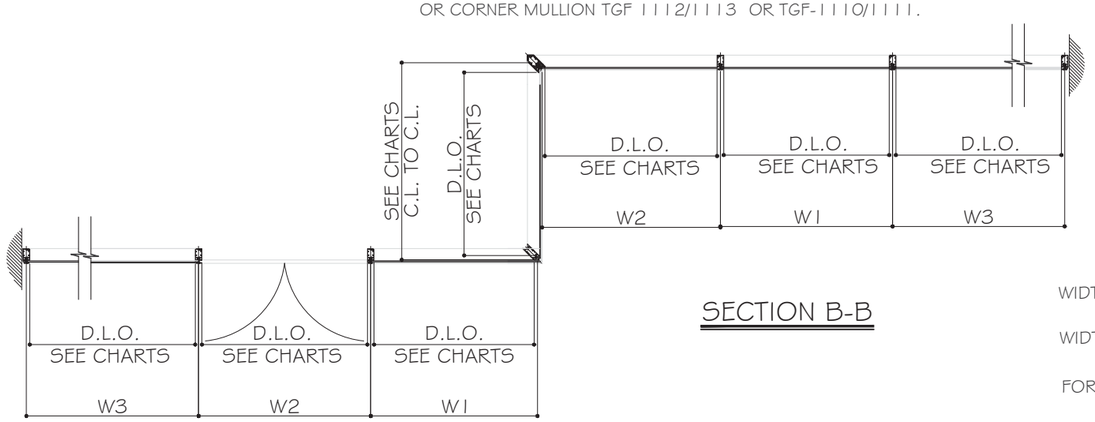


TYPICAL EXTERIOR ELEVATION LEVEL D IMPACT

TYPICAL MULLION WITH EXTRUSION CTW1123/1124,
DOOR JAMB CTW-1123/1124 + STEEL BARS OR 1104
OR CORNER MULLION TGF 1112/1113 OR TGF-1110/1111.



SECTION A-A



SECTION B-B

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

WIDTH (W) = W3 (JAMB)

FOR MULLION CAPACITY SEE CHARTS ON SHEET M4 AND M5

REVISIONS			
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CA #28067

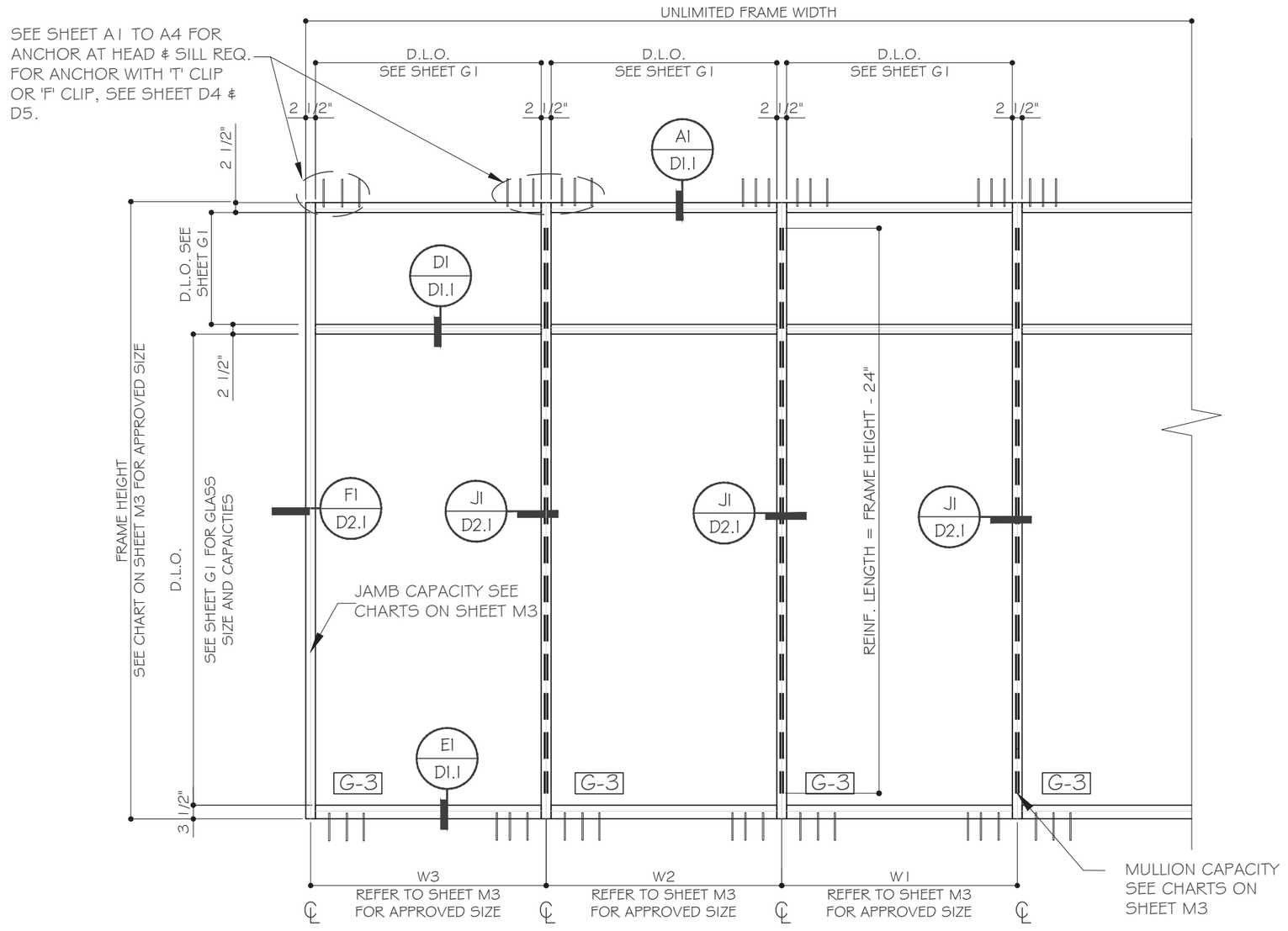
E1

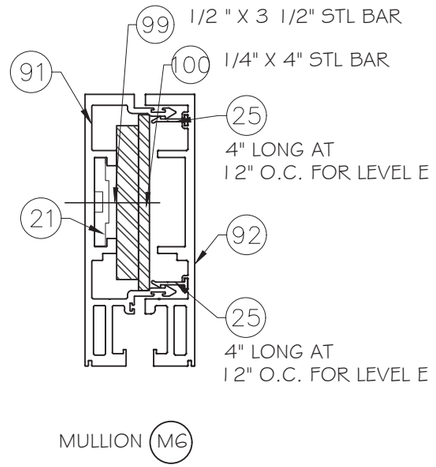
DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

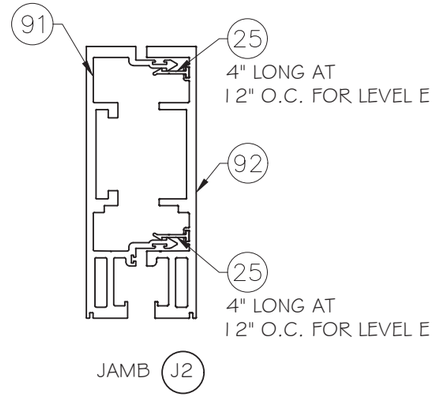
2 OF 25

June 6th, 2023





MULLION (M6)



JAMB (J2)

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

WIDTH (W) = W3 (JAMB)

TYPICAL EXTERIOR ELEVATION
LEVEL "E" IMPACT

REVISIONS			
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CA #28657

E2

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

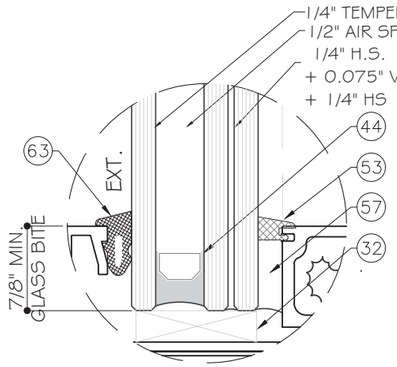
2A OF 25

June 6th, 2023

CHART 1

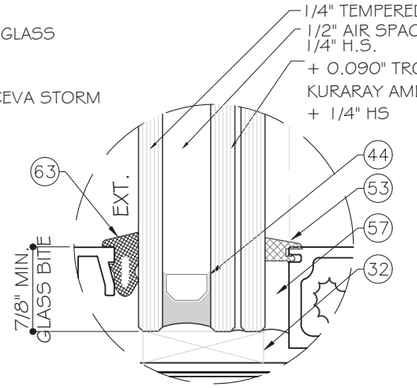
GLASS LOAD CAPACITY - PSF					
DAYLIGHT OPENING SIZE		GLASS TYPES			
		LEVEL D IMPACT			LEVEL E IMPACT
D.L.O. H. (IN.)	D.L.O. W. (IN.)	G1 (LMI)	G1A (LMI)	G2 (SMI)	G3 (LMI)
97	39.5	65	60	65	80
	45.5	65	60	65	80
	51.5	65	60	65	80
	57.5	65	60	65	80
	63.5	65	-	65	80
	69.5	65	-	66	80
103	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	60	65	80
	51.5	65	60	65	80
	57.5	65	60	65	80
	63.5	65	-	66	80
109	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	60	65	80
	51.5	65	60	65	80
	57.5	65	-	65	80
115	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	60	65	80
	51.5	65	60	65	80
	57.5	65	-	65	80
117.5	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	60	65	80
	51.5	65	-	65	80
	57.5	65	-	65	80
121	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	60	65	80
	51.5	65	-	65	80
127	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	60	65	80
	51.5	65	-	65	80
133	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	-	65	80
139	33.5	65	60	65	80
	39.5	65	60	65	80
	45.5	65	-	65	80

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



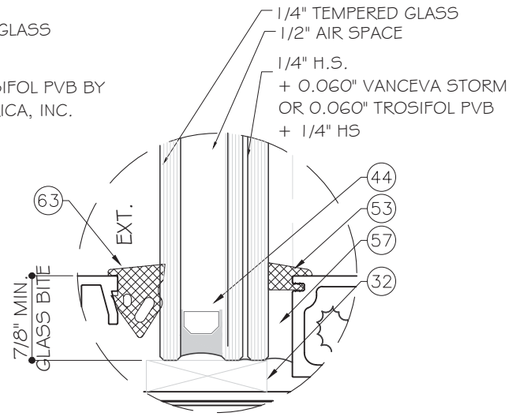
GLASS TYPE "G1"
1-5/16" NOMINAL OVERALL

LARGE MISSILE IMPACT
LEVEL D



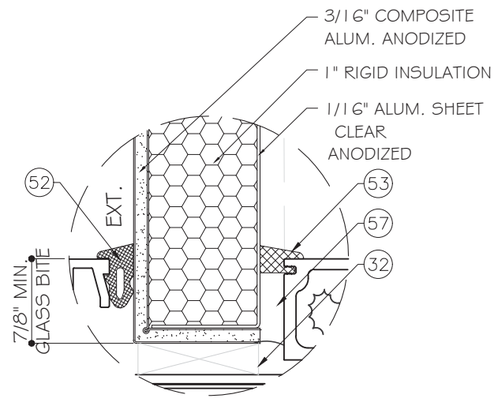
GLASS TYPE "G1A"
1-5/16" NOMINAL OVERALL

LARGE MISSILE IMPACT
LEVEL D



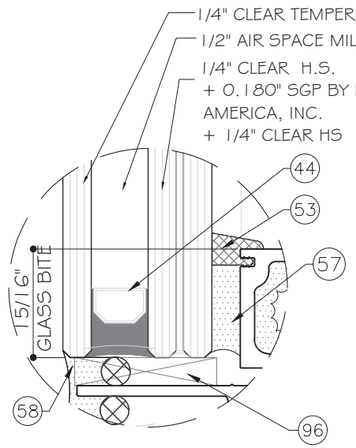
GLASS TYPE "G2"
1-1/8" NOMINAL OVERALL

SMALL MISSILE IMPACT
LEVEL D



METAL PANEL
1-5/16" NOMINAL OVERALL
MAX. D.L.O.= 57.5" WIDTH X 63" HEIGHT
PD= +/- 65.0 PSF

SMALL MISSILE IMPACT
LEVEL D



GLASS TYPE "G3"
1-7/16" NOMINAL OVERALL

LARGE MISSILE IMPACT
LEVEL E

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
LICENSE #55983
C.A. #28047

YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 6th, 2023

G1

DATE	05/04/2023
SCALE	AS SHOWN
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PROJECT	

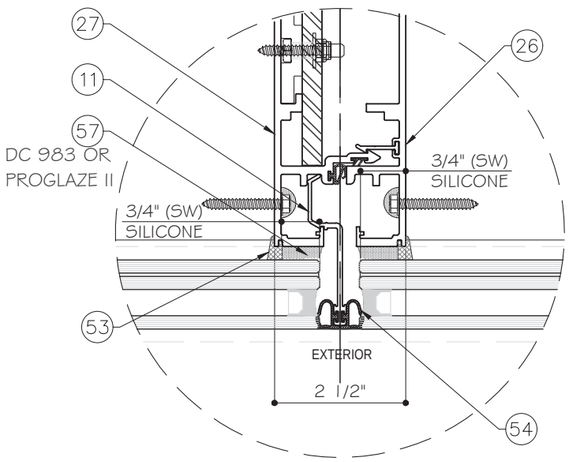
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CHART 2

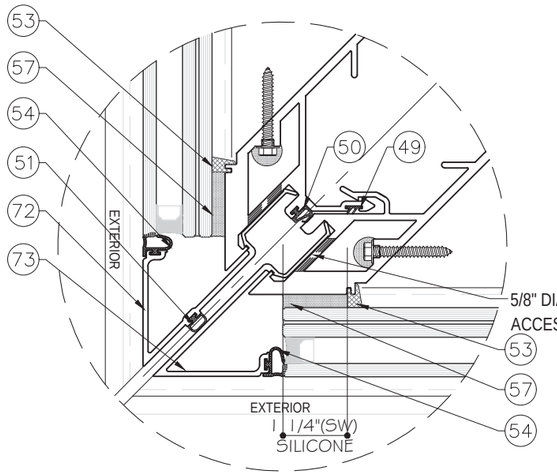
SILICONE CAPACITY FOR SSG MULLION (PSF)		
MULLION SPACING (℄-℄)	SILICONE WIDTH (SW)	
	LEVEL "D" IMPACT	
	3/4"	1 1/4"
36	65	65
42	65	65
48	65	65
54	65	65
60	65	65
66	65	65
72	60	65

CHART 2A

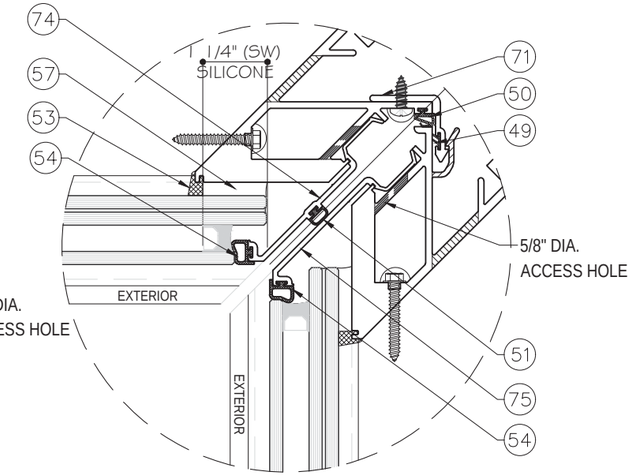
SILICONE CAPACITY FOR SSG MULLION (PSF)		
MULLION SPACING (℄-℄)	SILICONE WIDTH (SW)	
	LEVEL "E" IMPACT	
	13/16"	15/16"
36	80	80
42	80	80
48	80	80
54	80	80
60	78	80
66	70	80
72	65	75



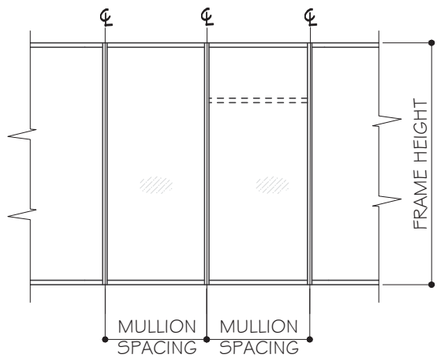
SSG DETAIL AT MULLION
LEVEL D IMPACT

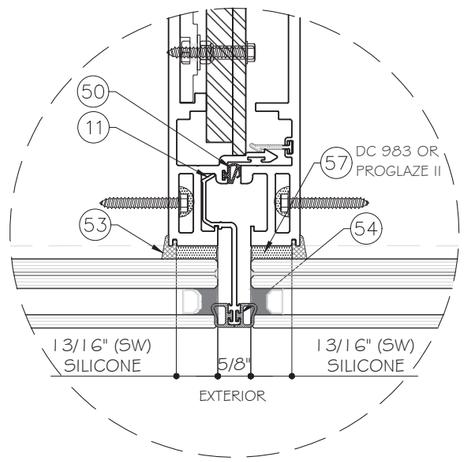


CORNER MULLION DETAIL
LEVEL D IMPACT

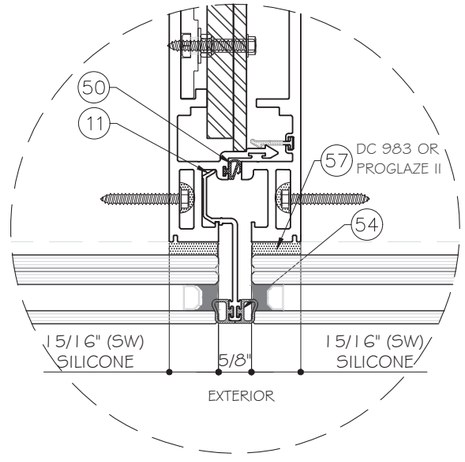


CORNER MULLION DETAIL
LEVEL D IMPACT





SSG DETAIL AT MULLION
LEVEL E IMPACT



SSG DETAIL AT MULLION
LEVEL E IMPACT

REVISIONS

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G2

DATE	05/04/2023
SCALE	AS SHOWN
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PROJECT	

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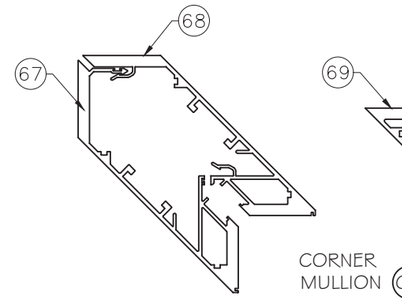
4 OF 25

June 6th, 2023

CHART 3

SINGLE SPAN MULLION-DESIGN LOAD CAPACITY (LEVEL D IMPACT)		
NOMINAL DIMENSIONS		MULLION TYPE
FRAME HEIGHT (in)	MULLION WIDTH (W) (in)	'M1', 'J1'
		(+/-) psf.
84	30	60
	36	60
	42	60
	48	60
	54	60
	60	60
	66	60
	72	60
90	30	60
	36	60
	42	60
	48	60
	54	60
	60	60
	66	60
	66	60
96	30	60
	36	60
	42	60
	48	60
	54	60
	60	60
102	30	60
	36	60
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	60	60
108	30	60
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	54	60

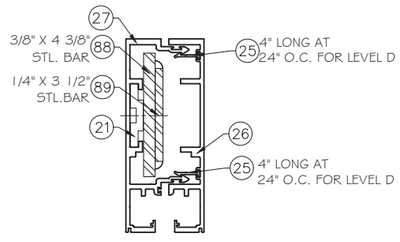
SINGLE SPAN MULLION-DESIGN LOAD CAPACITY (LEVEL D IMPACT)		
NOMINAL DIMENSIONS		MULLION TYPE
FRAME HEIGHT (in)	MULLION WIDTH (W) (in)	'M4', 'CM', 'J1'
		(+/-) psf.
126	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
	66	65
	72	65
132	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
	66	65
138	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
	66	65
144	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
150	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
156	30	65
	36	65
	42	65
	48	65
	54	65
	60	65



CORNER MULLION (CM)

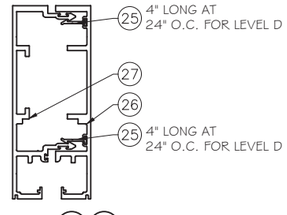
CM-I	Ix IN^4	Sx IN^3
(67) TGF-1110	34.4318	6.9104
(68) TGF-1111	27.3697	8.5221
TOTAL	61.8015	-

CM-O	Ix IN^4	Sx IN^3
(69) TGF-1112	22.6853	6.3025
(70) TGF-1113	24.7377	5.6901
TOTAL	47.4230	-



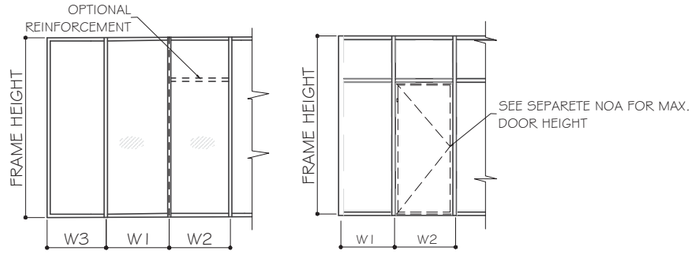
MULLION (M4)

M4	Ix IN^4	Sx IN^3
(26) CT-1123	7.7187	2.4679
(27) CT-1124	6.5449	2.0757
(88) R3 (STEEL)	2.6169	1.1963
(89) R4 (STEEL)	0.8932	0.5104
TOTAL	24.4429	-
Ix ALUM + STL x 2.9		



MULLION (M1) (J1)

M1, J1	Ix IN^4	Sx IN^3
(26) CT-1123	7.7187	2.4679
(27) CT-1124	6.5449	2.0757
TOTAL	14.2636	-



REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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

T850B WINDOW WALL (LMI & SMI) WZ4

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

M1

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

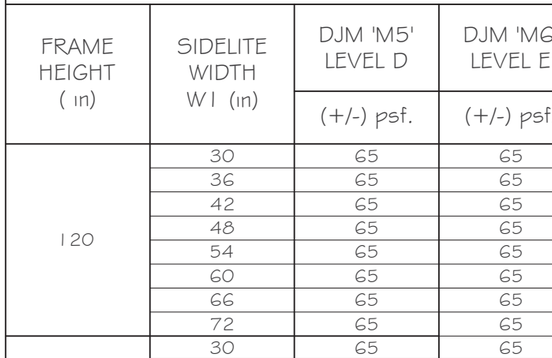
DRAWING NO.
AD22-32

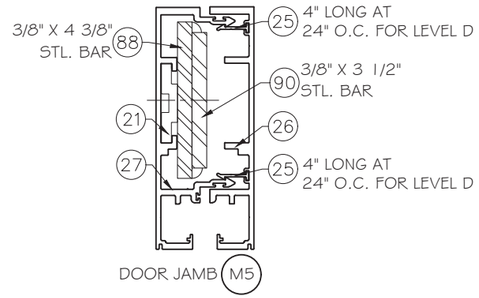
5 OF 25

June 6th, 2023

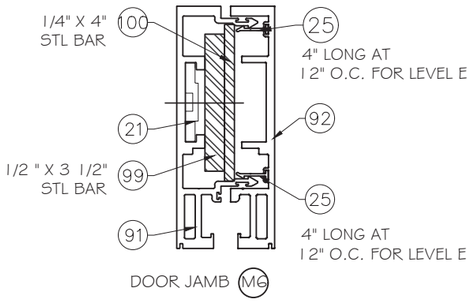
CHART 4

DOOR JAMB MULLION DESIGN LOAD CAPACITY			
FRAME HEIGHT (in)	SIDELITE WIDTH W1 (in)	DJM 'M5' LEVEL D (+/-) psf.	DJM 'M6' LEVEL E (+/-) psf.
120	30	65	65
	36	65	65
	42	65	65
	48	65	65
	54	65	65
	60	65	65
	66	65	65
	72	65	65
132	30	65	65
	36	65	65
	42	65	65
	48	65	65
	54	65	65
	60	65	65
	66	65	-
	72	65	-
144	30	65	65
	36	65	65
	42	65	65
	48	65	65
	54	65	-
	60	65	-
	66	62	-
156	30	65	65
	36	65	65
	42	65	65
	48	63	-
	54	60	-
	60	57	-

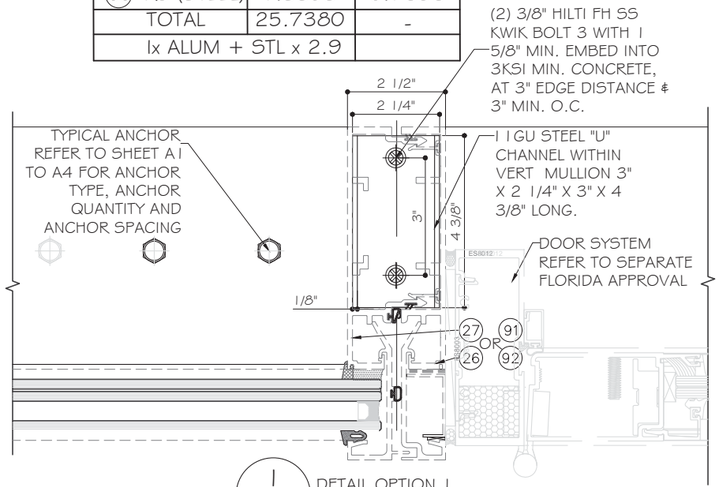




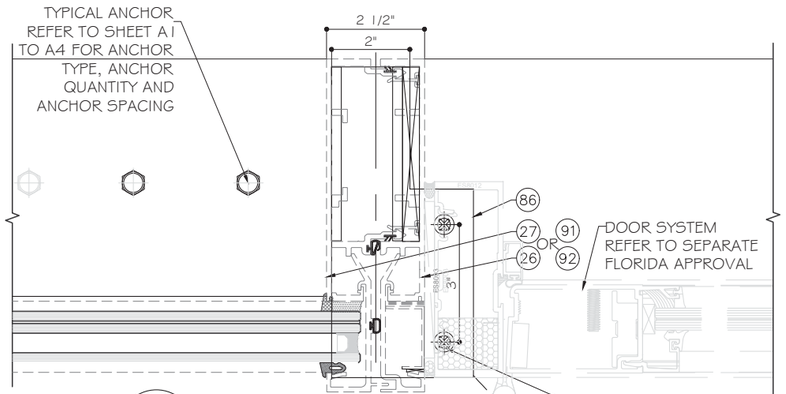
M5	Ix IN^4	Sx IN^3
26 CT-1123	7.7187	2.4679
27 CT-1124	6.5449	2.0757
88 R3 (STEEL)	2.6169	1.1963
90 R5 (STEEL)	1.3398	0.7656
TOTAL	25.7380	-
Ix ALUM + STL x 2.9		



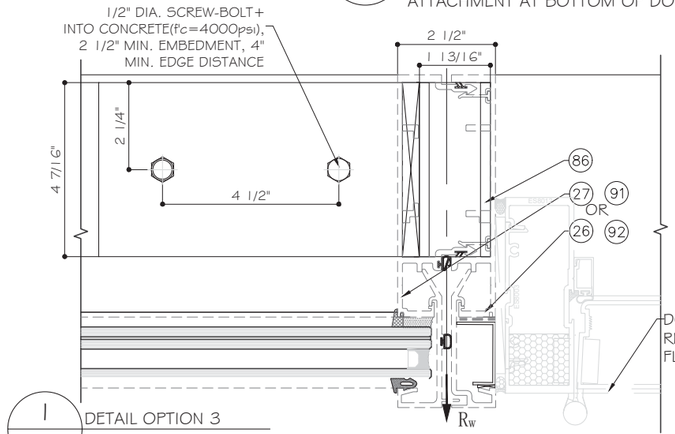
M6	Ix IN^4	Sx IN^3
91 CT-1131	10.5167	3.2899
92 CT-1132	9.2127	2.7867
99 1/2 " X 3 1/2" STL BAR	1.7865	1.0209
100 1/4" X 4" STL BAR	1.3333	0.6667
TOTAL	28.777	-
Ix ALUM + STL x 2.9		



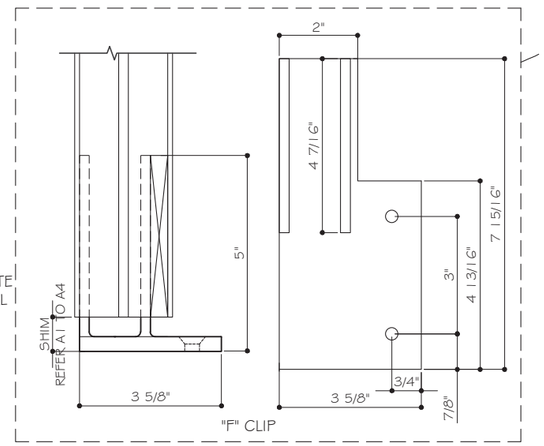
1 / - DETAIL OPTION 1
STEEL CHANNEL
ATTACHMENT AT BOTTOM OF DOOR JAMB



1 / -- DETAIL OPTION 2
"F" CLIP
ATTACHMENT AT BOTTOM OF DOOR JAMB



1 / - DETAIL OPTION 3
"F" CLIP
ATTACHMENT AT BOTTOM OF DOOR JAMB
MAX. WIND LOAD REACTION AT MULLION END Rw=800 LB
ANCHOR CONDITIONS TO BE CHECKED BY DELEGATED ENGINEER ON JOB BASES PER ASCE 7 CURRENT VERSION.



FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
Cert. #23007

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GLAZING CONSULTANTS
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9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

M2

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

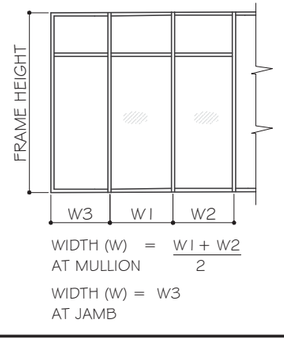
6 OF 25

June 6th, 2023

SINGLE SPAN MULLION-DESIGN LOAD CAPACITY (LEVEL 'E' IMPACT)			
NOMINAL DIMENSIONS		LMI & SMI	
FRAME HEIGHT L (in)	FRAME WIDTH (W) (in)	'M6'	'J2'
		(+/-) psf.	(+/-) psf.
90	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
	72	80	80
96	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
	72	80	80
102	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
	72	80	80
108	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
	72	80	80
114	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
	72	80	80
120	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
	72	80	80
126	36	80	80
	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
	72	80	80
132	36	80	80
	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80

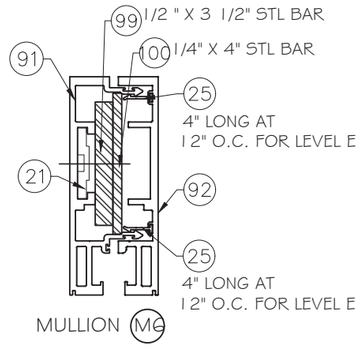
SINGLE SPAN MULLION-DESIGN LOAD CAPACITY (LEVEL 'E' IMPACT)			
NOMINAL DIMENSIONS		LMI & SMI	
FRAME HEIGHT L (in)	FRAME WIDTH (W) (in)	'M6'	'J2'
		(+/-) psf.	(+/-) psf.
138	30	80	80
	36	80	80
	42	80	80
	48	80	80
	54	80	80
	60	80	80
	66	80	80
144	30	80	80
	36	80	80
	42	80	80
	48	80	80
	54	80	80
	60	80	80
150	30	80	80
	36	80	80
	42	80	80
	48	80	80
	54	80	80
	60	77	80
156	30	80	80
	36	80	80
	42	80	80
	48	80	80
	54	79	80
	60	77	80
162	30	80	80
	36	80	80
	42	80	80
	48	80	80
	54	77	80
168	30	80	80
	36	80	80
	42	80	80
	48	78	80
	54	69	77
174	30	80	80
	36	80	80
	42	80	80
	48	70	80
180	30	80	80
	36	80	80
	42	72	80
	48	63	75
186	30	80	80
	36	76	80
	42	65	80
	48	57	70
192	30	80	80
	36	69	80
	42	59	75
	48	52	66

SINGLE SPAN MULLION-DESIGN LOAD CAPACITY (LEVEL 'E' IMPACT)			
NOMINAL DIMENSIONS		LMI & SMI	
FRAME HEIGHT L (in)	FRAME WIDTH (W) (in)	'M6'	'J2'
		(+/-) psf.	(+/-) psf.
198	30	76	80
	36	63	80
	42	54	71
204	30	69	80
	36	58	78
	42	50	67
210	30	64	80
	36	53	73
	42	45	62
216	30	58	80
	36	49	67
	42	42	57
222	30	54	74
	36	45	62
	42	38	53
228	30	50	68
	36	41	57
234	30	46	63
	36	38	53
240	30	43	58
	36	36	49
246	30	40	54
	36	33	45



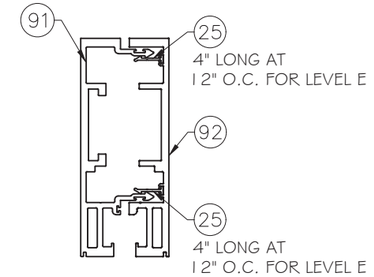
WIDTH (W) = $\frac{W1 + W2}{2}$ AT MULLION

WIDTH (W) = W3 AT JAMB



MULLION (M6)

M6	Ix IN^4	Sx IN^3
(91) CT-1131	10.5167	3.2899
(92) CT-1132	9.2127	2.7867
(99) 1/2 " X 3 1/2" STL BAR	1.7865	1.0209
(100) 1/4" X 4" STL BAR	1.3333	0.6667
TOTAL	28.777	-
Ix ALUM + STL x 2.9		



JAMB (J2)

J2	Ix IN^4	Sx IN^3
(91) CT-1131	10.5167	3.2899
(92) CT-1132	9.2127	2.7867
TOTAL	19.7294	-

REVISIONS			
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1	05/04/23	APPLICATION	

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PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
#55983
CERT OF AUTH #28677

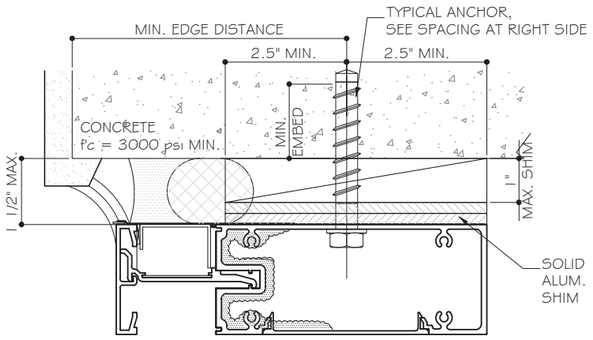
M3

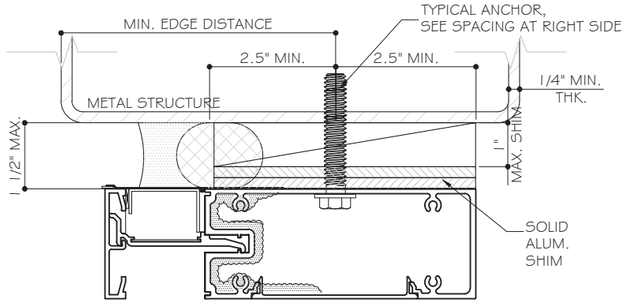
DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

6A OF 25

June 6th, 2023

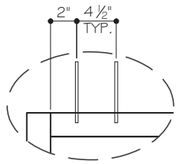




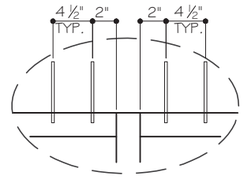
TYPICAL ANCHORS AT HEAD:

TYPE "A": 1/2" DIA. HILTI KWIK HUS-EZ (Fu = 112.5 KSI, Fy = 88.5 KSI)
3" MIN. EMBED DIRECTLY INTO fc'=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
@ 4 1/2" MIN. O.C.

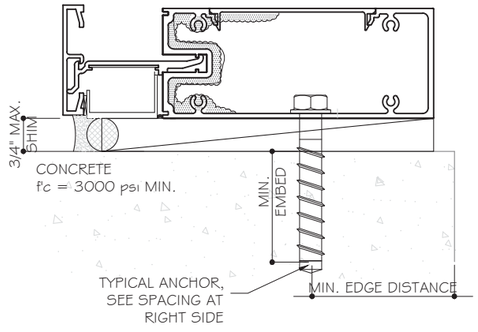
TYPE "B": 1/2" DIA. ELCO TAP-FLEX (Fu = 120 KSI, Fy = 92 KSI)
DIRECTLY INTO 1/4" MIN. THK. STEEL STRUCTURE (A36 MIN.)
1-1/2" MIN. EDGE DISTANCE @ 3" MIN. O.C.



HEAD ANCHOR TYPE "A" OR "B" AT JAMB
MAX. WIND LOAD REACTION
AT JAMB END Rw = 1085 LB

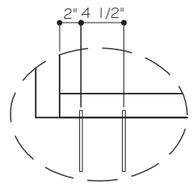


HEAD ANCHOR TYPE "A" OR "B" AT MULLION
MAX. WIND LOAD REACTION
AT MULLION END Rw = 2170 LB

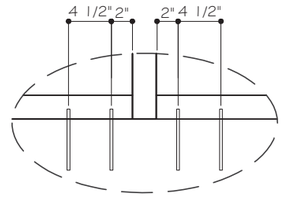


TYPICAL ANCHOR AT SILL:

TYPE "AA": 1/2" DIA. HILTI KWIK HUS-EZ (Fu = 112.5 KSI, Fy = 88.5 KSI)
3" MIN. EMBED DIRECTLY INTO fc'=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
@ 4-1/2" MIN. O.C.



HEAD ANCHOR TYPE "AA" AT JAMB
MAX. WIND LOAD REACTION
AT JAMB END Rw = 1085 LB



HEAD ANCHOR TYPE "AA" AT MULLION
MAX. WIND LOAD REACTION
AT MULLION END Rw = 2170 LB

LEVEL D IMPACT AND LEVEL E IMPACT

FOR ANCHOR CONDITION
DIFFERENT TO APPROVED,
TO BE ENGINEERED SEPARATELY.

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
NO. #55983
CA #28657

YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 6th, 2023

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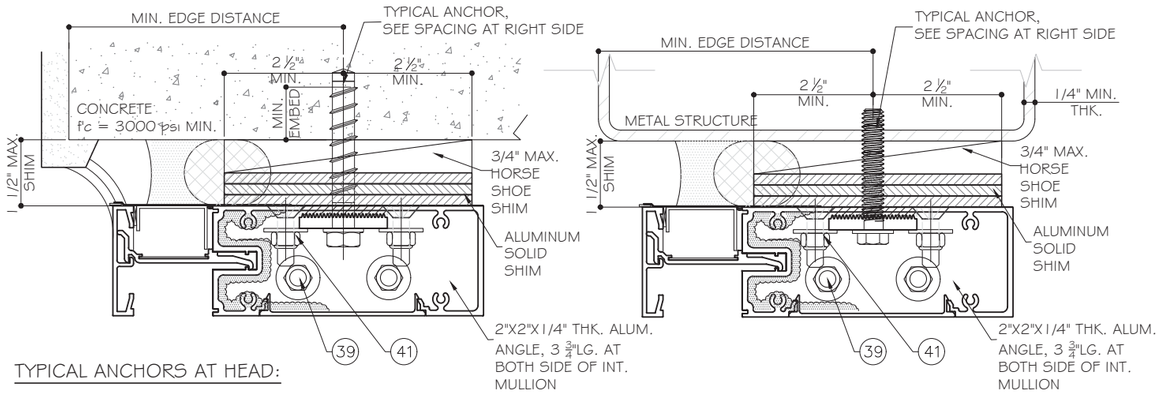
T850B WINDOW WALL (LMI & SMI) WZ4

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
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ORLANDO, FL 32824
PH: (407)-857-9237

A1

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

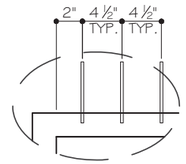
DRAWING NO.
AD22-32



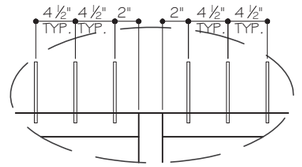
TYPICAL ANCHORS AT HEAD:

TYPE "A": 1/2" DIA. HILTI KWIK HUS-EZ (Fu = 112.5 KSI, Fy = 88.5 KSI)
3" MIN. EMBED DIRECTLY INTO f'c=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
@ 4 1/2" MIN. O.C.

TYPE "B": 1/2" DIA. ELCO TAP-FLEX (Fu = 120 KSI, Fy = 92 KSI)
DIRECTLY INTO 1/4" MIN. THK. STEEL STRUCTURE (A36 MIN.)
1-1/2" MIN. EDGE DISTANCE @ 3" MIN. O.C.

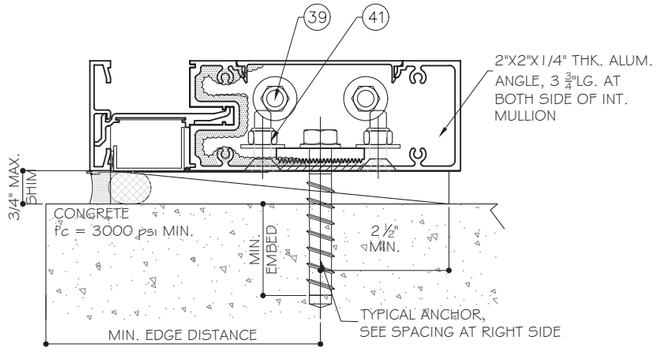


HEAD ANCHOR TYPE "A" OR "B" AT JAMB



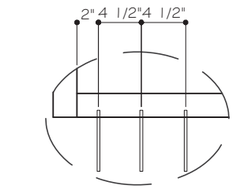
HEAD ANCHOR TYPE "A" OR "B" AT MULLION

LEVEL "E" IMPACT

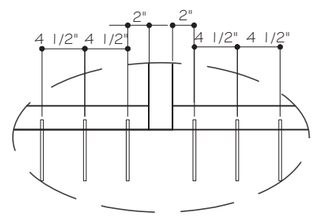


TYPICAL ANCHORS AT SILL:

TYPE "AA": 1/2" DIA. HILTI KWIK HUS-EZ (Fu = 112.5 KSI, Fy = 88.5 KSI)
3" MIN. EMBED DIRECTLY INTO f'c=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
@ 4 1/2" MIN. O.C.



SILL ANCHOR TYPE "AA" AT JAMB



SILL ANCHOR TYPE "AA" AT MULLION

LEVEL "E" IMPACT

FOR ANCHOR CONDITION DIFFERENT TO APPROVED, TO BE ENGINEERED SEPARATELY.

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
NO. #55983
CERTIFICATE OF AUTHORIZATION #28657

YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 6th, 2023

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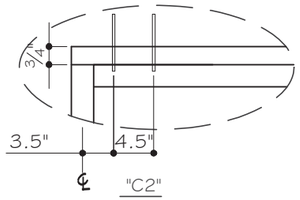
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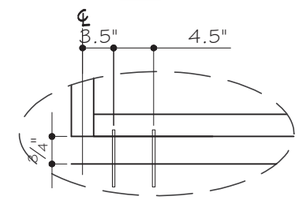
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SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

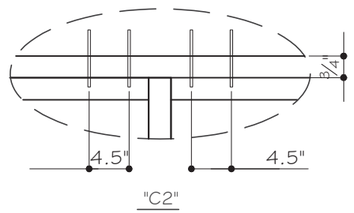
TYPICAL ANCHORS AT HEAD & SILL:

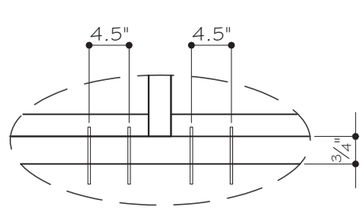
TYPE "C": 3/8" DIA. DEWALT SCREW BOLT+ (Fu = 105 KSI, Fy = 84 KSI)
2" MIN. EMBED DIRECTLY INTO fc'=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE





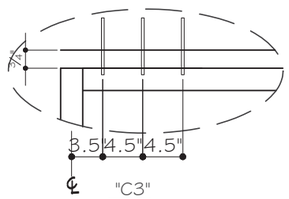
ANCHOR TYPE "C" AT JAMB
MAX. WIND LOAD REACTION
AT JAMB END Rw = 1085 LB

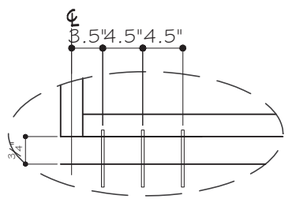




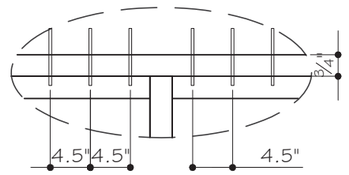
ANCHOR TYPE "C" AT MULLION
MAX. WIND LOAD REACTION
AT MULLION END Rw = 2170 LB

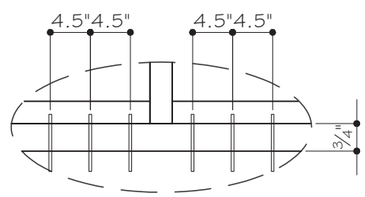
LEVEL D IMPACT AND LEVEL E IMPACT





ANCHOR TYPE "C" AT JAMB
MAX. WIND LOAD REACTION
AT JAMB END Rw = 1085 LB

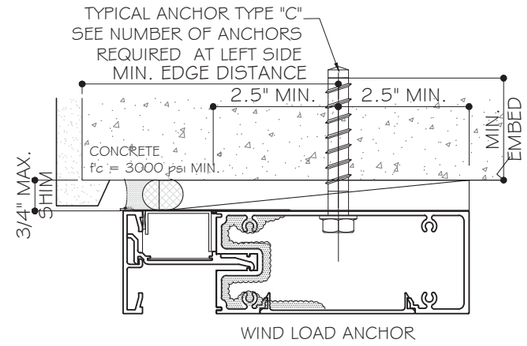




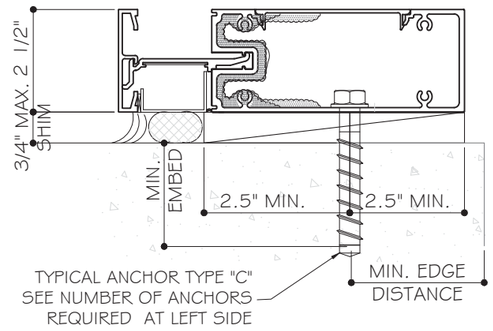
ANCHOR TYPE "C" AT MULLION
MAX. WIND LOAD REACTION
AT MULLION END Rw = 2170 LB

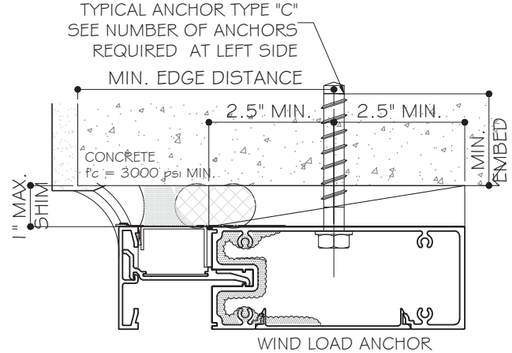
LEVEL D IMPACT AND LEVEL E IMPACT

FOR ANCHOR CONDITION
DIFFERENT TO APPROVED,
TO BE ENGINEERED SEPARATELY.

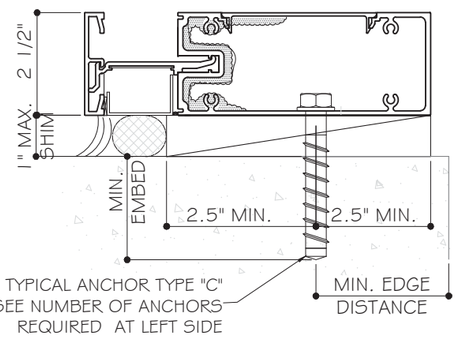


WIND LOAD ANCHOR





WIND LOAD ANCHOR



REVISIONS			
NO	DATE	DESCRIPTION	
1	05/04/23	APPLICATION	

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

T850B WINDOW WALL (LMI & SMI) WZ4

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
LICENSE
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A2

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.G.
PROJECT	

DRAWING NO.
AD22-32

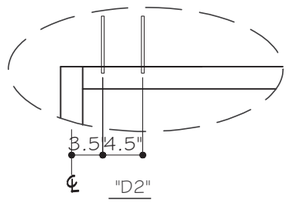
June 6th, 2023

CHART 5

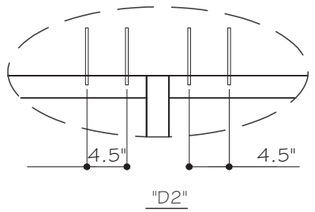
HEAD AND SILL ANCHOR CAPACITY-PSF LEVEL D AND LEVEL E			
NOMINAL DIMENSION		ANCHOR TYPE "D"	
MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	D2 EXT. (+) INT. (-)	D3 EXT. (+) INT. (-)
48	84	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		65.0	65.0
72		65.0	65.0
48	96	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		65.0	65.0
72		61.2	65.0
48	108	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		64.2	65.0
72		58.8	65.0
48	120	65.0	65.0
54		65.0	65.0
60		63.5	65.0
66		57.7	65.0
72		52.9	65.0
48	126	65.0	65.0
54		65.0	65.0
60		60.5	65.0
66		55.0	65.0
72		50.4	65.0
48	132	65.0	65.0
54		64.2	65.0
60		57.7	65.0
66		52.5	65.0
42	138	65.0	65.0
48		65.0	65.0
54		61.4	65.0
60		55.2	65.0
66		50.2	65.0
42	144	65.0	65.0
48		65.0	65.0
54		58.8	65.0
60		52.9	65.0
42	150	65.0	65.0
48		63.5	65.0
54		56.5	65.0
60		50.8	65.0
42	156	65.0	65.0
48		61.1	65.0
54		54.3	65.0
60		48.9	65.0

TYPICAL ANCHORS:

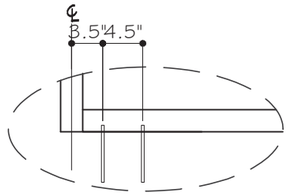
TYPE "D": 5/16" DIA. DEWALT ULTRACON (Fu = 177 KSI, Fy = 155 KSI)
2" MIN. EMBED DIRECTLY INTO fc'=4 KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE



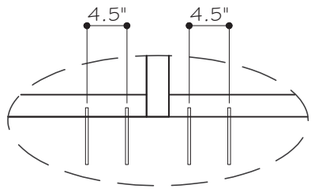
"D2"



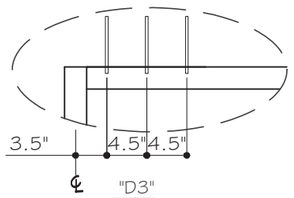
"D2"



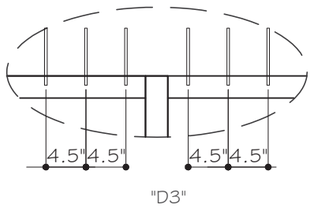
"D2"



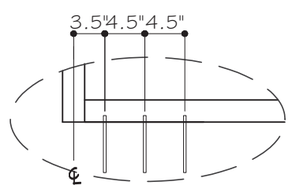
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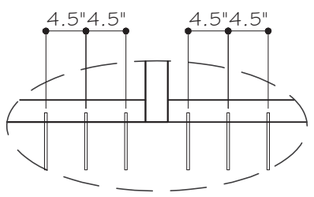
"D3"



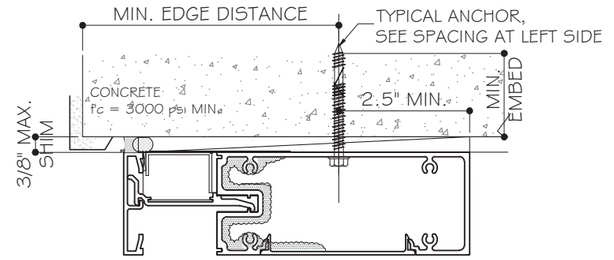
"D3"



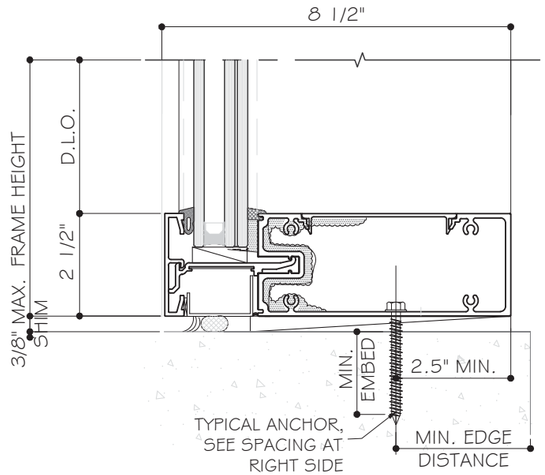
"D3"



"D3"



WIND LOAD ANCHOR



FOR ANCHOR CONDITION DIFFERENT TO APPROVED, TO BE ENGINEERED SEPARATELY.

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
LICENSE NO. 55983
LIC. NO. 28677

June 6th, 2023

REVISIONS

NO	DATE	DESCRIPTION	APPLICATION
1	05.04.23		

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

T850B WINDOW WALL (LMI & SMI) WZ4

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

A3

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.G.
PROJECT	

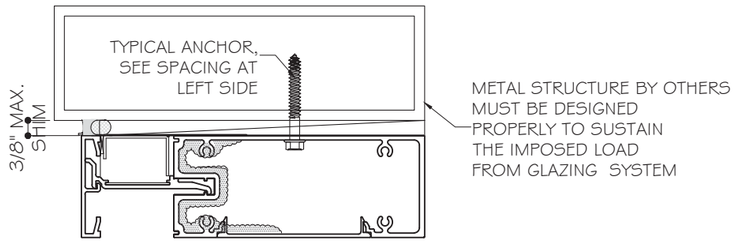
DRAWING NO.
AD22-32

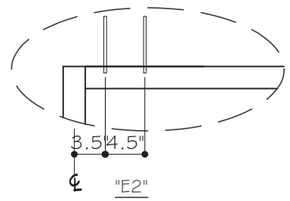
CHART 6

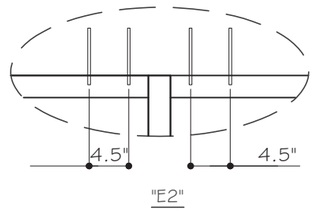
HEAD ANCHOR CAPACITY - PSF LEVEL D AND LEVEL E			
NOMINAL DIMENSION		ANCHOR TYPE "E"	
MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	E2 EXT. (+) INT. (-)	E3 EXT. (+) INT. (-)
48	84	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		65.0	65.0
72		65.0	65.0
48	96	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		64.5	65.0
72		59.2	65.0
48	108	65.0	65.0
54		65.0	65.0
60		63.1	65.0
66		57.4	65.0
72		52.6	65.0
48	120	65.0	65.0
54		63.1	65.0
60		56.8	65.0
66		51.6	65.0
72		47.3	65.0
48	126	65.0	65.0
54		60.1	65.0
60		54.1	65.0
66		49.2	65.0
72		45.1	65.0
48	132	64.5	65.0
54		57.4	65.0
60		51.6	65.0
66		46.9	65.0
42	138	65.0	65.0
48		61.7	65.0
54		54.9	65.0
60		49.4	65.0
66		44.9	65.0
42	144	65.0	65.0
48		59.2	65.0
54		52.6	65.0
60		47.3	65.0
42	150	64.9	65.0
48		56.8	65.0
54		50.5	65.0
60		45.4	65.0
42	156	62.4	65.0
48		54.6	65.0
54		48.5	65.0
60		43.7	65.0

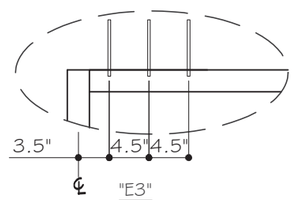
TYPICAL ANCHORS AT HEAD:

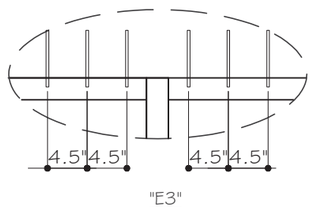
TYPE "E": 5/16" DIA. DRIL FLEX OR TEKS (GRADE 5)
(Fu = 120 KSI, Fy = 92 KSI)
INTO 1/8" MIN. METAL STRUCTURE
ALUMINUM (6063-T5 MIN)
STEEL (A36 MIN.)
(3) THREADS MIN. BEYOND SUBSTRATE











FOR ANCHOR CONDITION
DIFFERENT TO APPROVED,
TO BE ENGINEERED SEPARATELY.

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983

June 6th, 2023

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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

T850B WINDOW WALL (LMI & SMI) WZ4

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

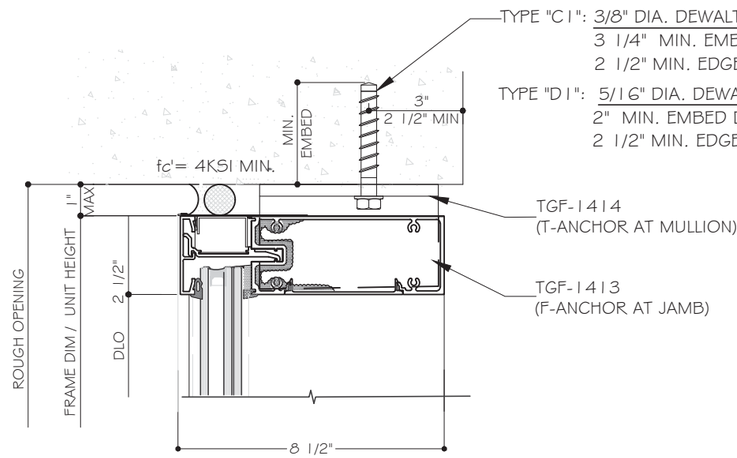
A4

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

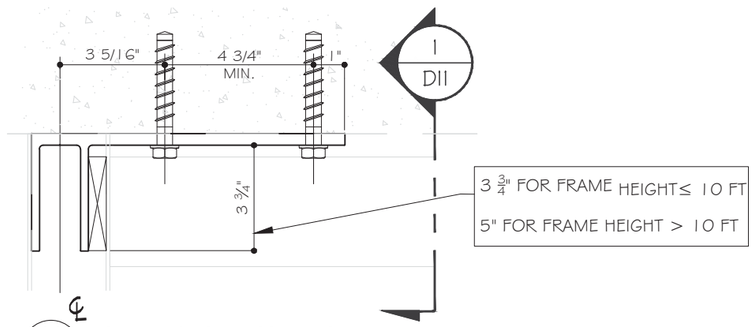
DRAWING NO.
AD22-32

CHART 7

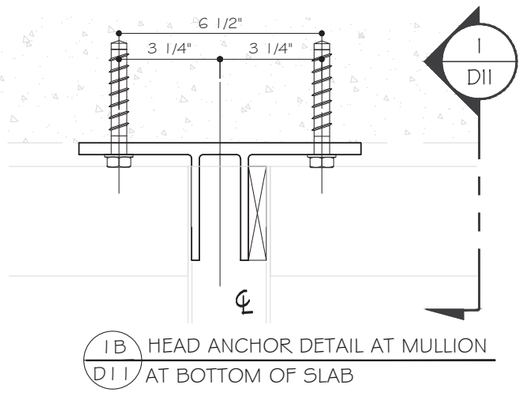
HEAD ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE "C1" OR "D1"	
MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
48	84	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		65.0	65.0
72		65.0	65.0
48	96	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		65.0	65.0
72		61.2	65.0
48	108	65.0	65.0
54		65.0	65.0
60		65.0	65.0
66		59.3	65.0
72		54.4	65.0
48	120	65.0	65.0
54		65.0	65.0
60		58.8	65.0
66		53.4	65.0
72		49.0	65.0
48	126	65.0	65.0
54		62.2	65.0
60		56.0	65.0
66		50.9	65.0
72		46.6	65.0
48	132	65.0	65.0
54		59.3	65.0
60		53.4	65.0
66		48.6	65.0
42	138	65.0	65.0
48		63.9	65.0
54		56.8	65.0
60		51.1	65.0
66		46.4	65.0
42	144	65.0	65.0
48		61.2	65.0
54		54.4	65.0
60		49.0	65.0
42	150	65.0	65.0
48		58.8	65.0
54		52.2	65.0
60		47.0	65.0
42	156	64.6	65.0
48		56.5	65.0
54		50.2	65.0
60		45.2	65.0



1 / D11 HEAD ANCHOR WITH "T" CLIP & "F" CLIP (WIND LOAD ANCHOR ONLY) LEVEL D IMPACT



1A / D11 HEAD ANCHOR DETAIL AT JAMB AT BOTTOM OF SLAB



1B / D11 HEAD ANCHOR DETAIL AT MULLION AT BOTTOM OF SLAB

FOR ANCHOR CONDITION DIFFERENT TO APPROVED, TO BE ENGINEERED SEPARATELY.

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
LIC. NO. 28677

YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 6th, 2023

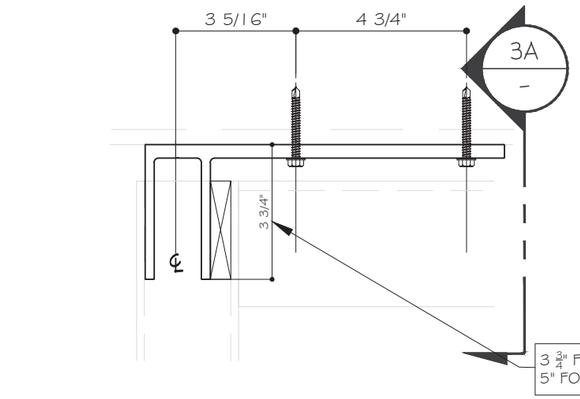
A5

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

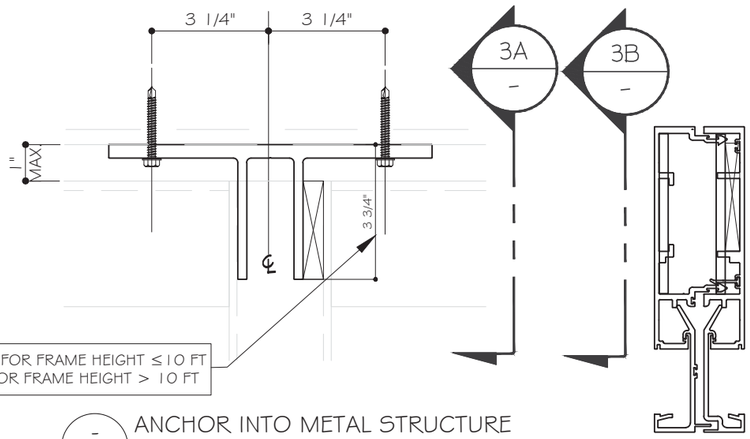
DRAWING NO.
AD22-32

CHART 8

HEAD ANCHOR CAPACITY - (+/-) PSF				
NOMINAL DIMENSION		ANCHOR TYPE "E"		
MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP DET. 3A	"T" CLIP DET. 3B	W/ "F" CLIP DET. 3A
48	84	65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
48	96	65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		61.0	65.0	65.0
48	108	65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		59.1	65.0	65.0
72		54.2	65.0	65.0
48	120	65.0	65.0	65.0
54		65.0	65.0	65.0
60		58.5	65.0	65.0
66		53.2	65.0	65.0
72		48.8	65.0	65.0
48	126	65.0	65.0	65.0
54		61.9	65.0	65.0
60		55.7	65.0	65.0
66		50.7	65.0	65.0
72		46.4	65.0	65.0
48	132	65.0	65.0	65.0
54		59.1	65.0	65.0
60		53.2	65.0	65.0
66		48.4	65.0	65.0
42	138	65.0	65.0	65.0
48		63.6	65.0	65.0
54		56.5	65.0	65.0
60		50.9	65.0	65.0
66		46.3	65.0	65.0
42	144	65.0	65.0	65.0
48		61.0	65.0	65.0
54		54.2	65.0	65.0
60		48.8	65.0	65.0
42	150	65.0	65.0	65.0
48		58.5	65.0	65.0
54		52.0	65.0	65.0
60		46.8	65.0	65.0
42	156	64.3	65.0	65.0
48		56.3	65.0	65.0
54		50.0	65.0	65.0
60		45.0	65.0	65.0

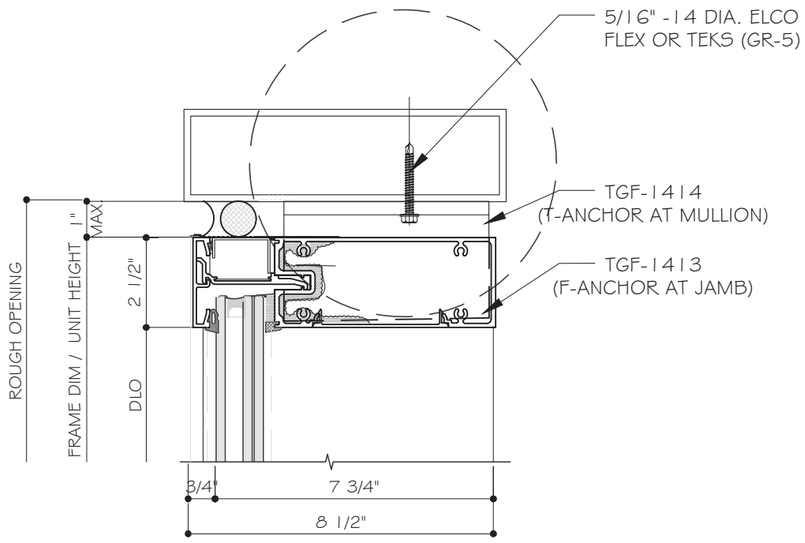


ANCHOR INTO METAL STRUCTURE
(2) ANCHORS PER CLIP

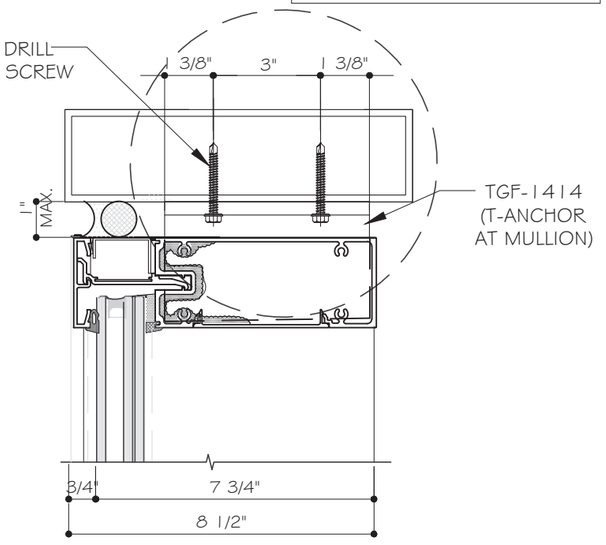


ANCHOR INTO METAL STRUCTURE
(2) OR (4) ANCHORS PER CLIP

NOTE: "CTW TO MACHINE THE LEGS OF EXTRUSIONS AREAS OF INTERFERENCE"



3A HEAD OR SILL ANCHOR
WITH "T" CLIP & "F" CLIP (2) ANCHORS
LEVEL D IMPACT



3B HEAD OR SILL ANCHOR
"T" CLIP (4) ANCHORS
LEVEL D IMPACT

TYPICAL ANCHORS AT HEAD OR SILL:

TYPE "E": 5/16" DIA. DRIL FLEX OR TEKS (GRADE 5)
(Fu = 120 KSI, Fy = 92 KSI)
INTO METAL STRUCTURE
ALUMINUM (6063-T5 MIN) 3/16" MIN. THK.
STEEL (A36) 1/8" MIN. THK.
(3) THREADS MIN. BEYOND SUBSTRATE

FOR ANCHOR CONDITION DIFFERENT TO APPROVED, TO BE ENGINEERED SEPARATELY.

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG
FLORIDA REGISTRATION
LICENSE
No. 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 6th, 2023

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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

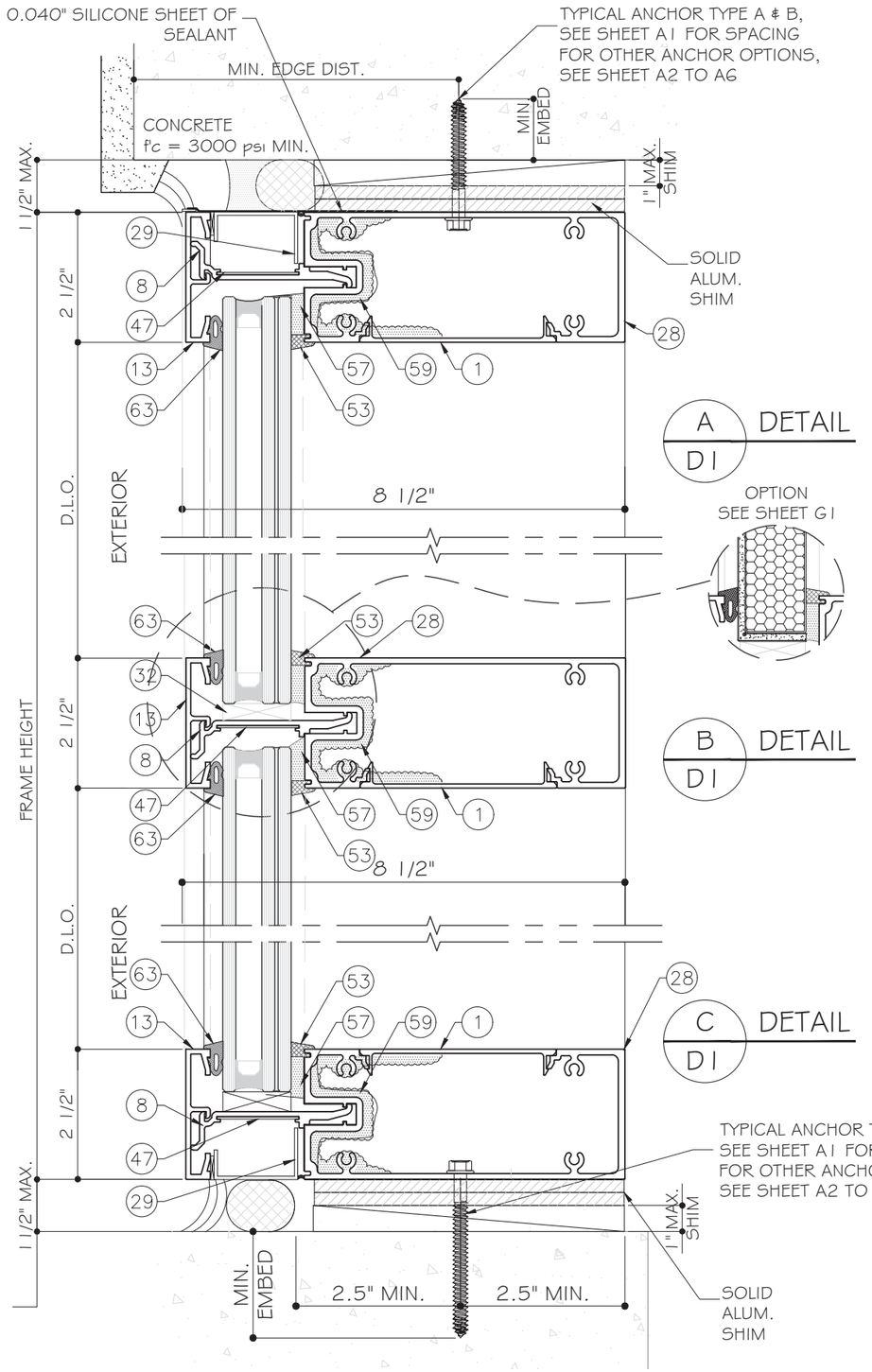
T850B WINDOW WALL (LMI & SMI) WZ4

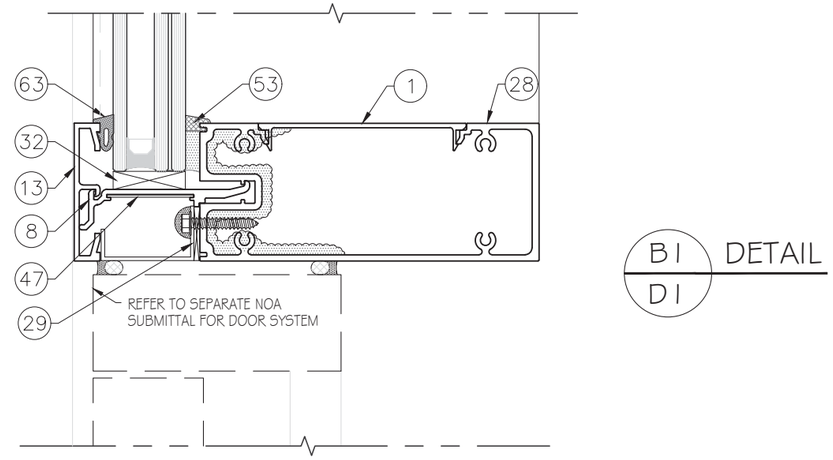
CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

A6

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32





B1 DETAIL D1

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL. 33027
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T850B WINDOW WALL (LMI & SMI) WZ4

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9195 BOGGY CREEK RD. #1
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PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG
FLORIDA REGISTRATION
LIC. NO. 28677

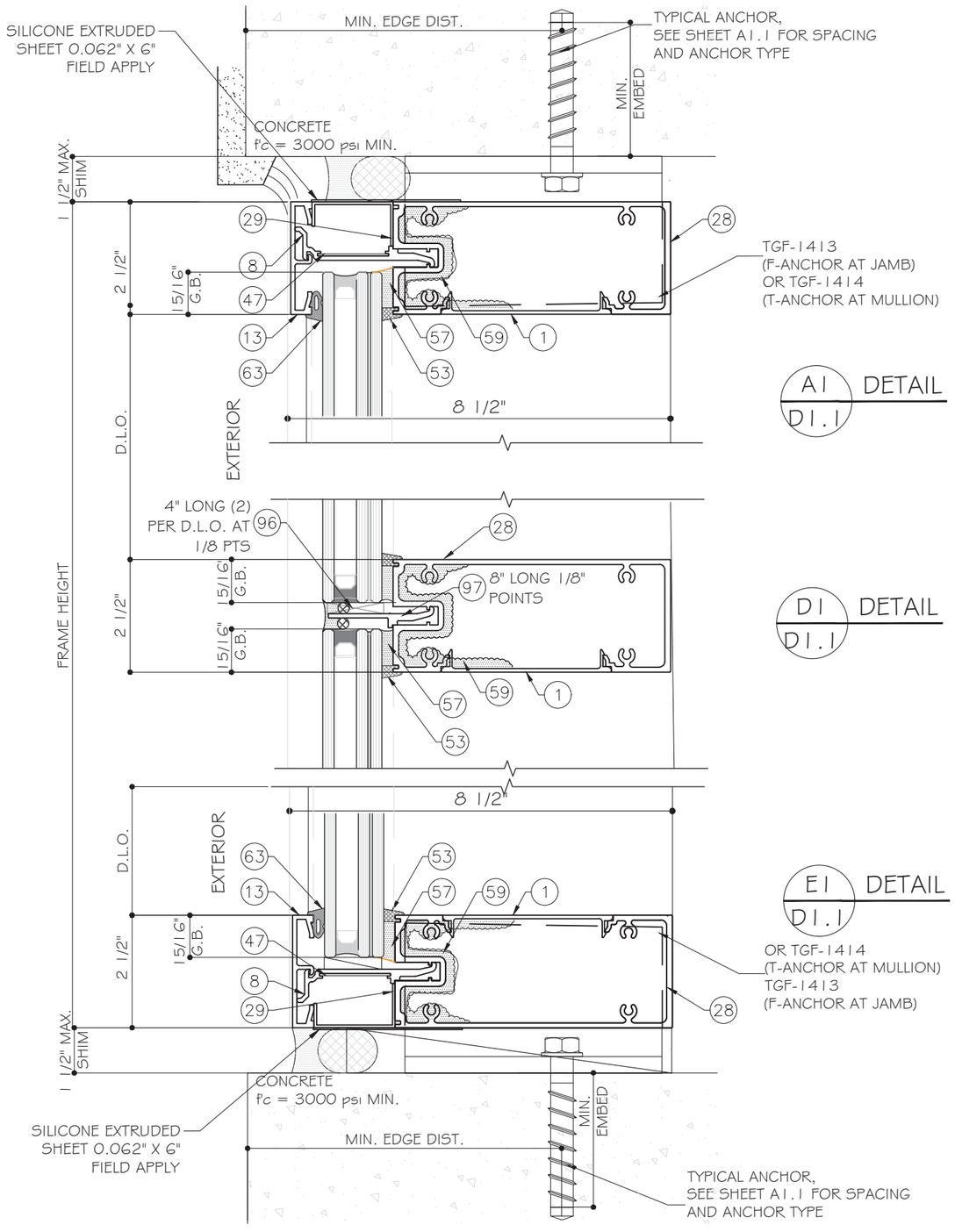
YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

D1

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

June 6th, 2023



REVISIONS		
NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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

T850B WINDOW WALL (LMI & SMI) WZ4

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9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
NO. #55983
CA #28657

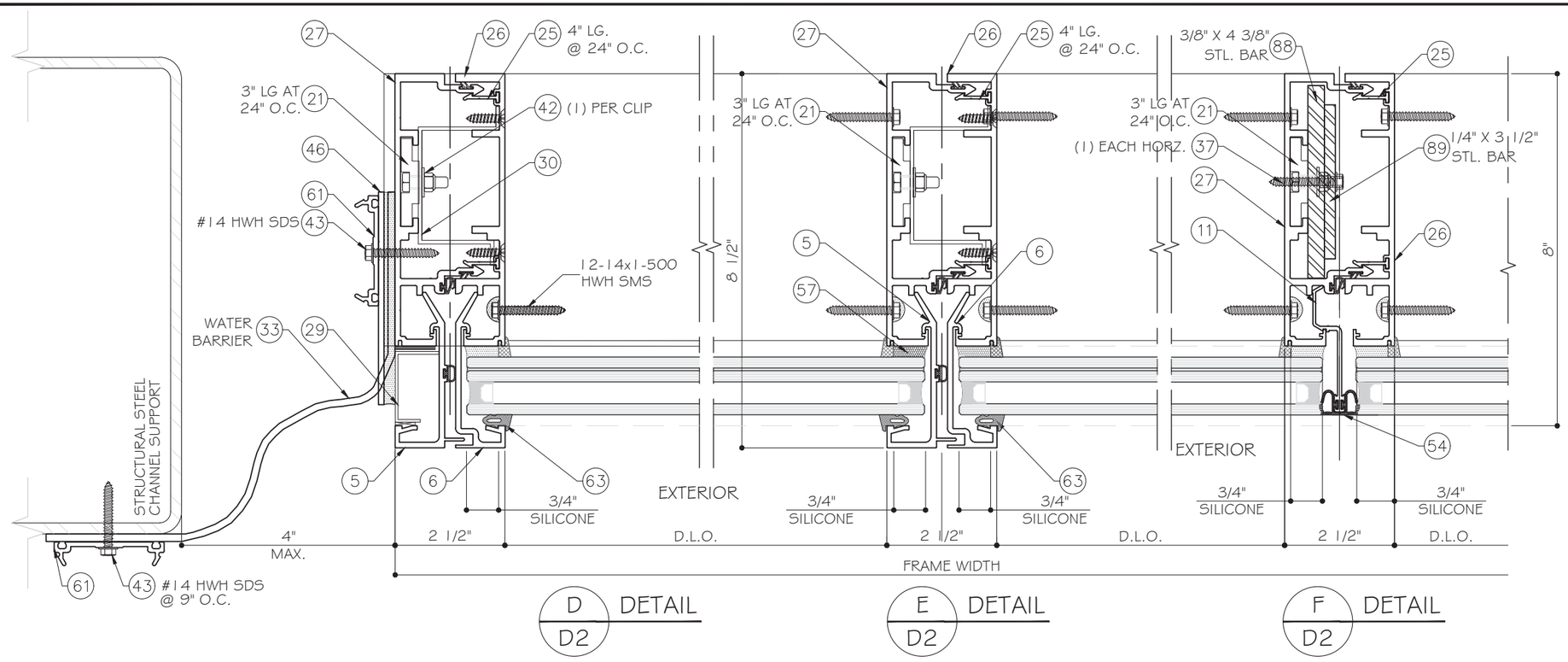
YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

D1.1

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

June 6th, 2023

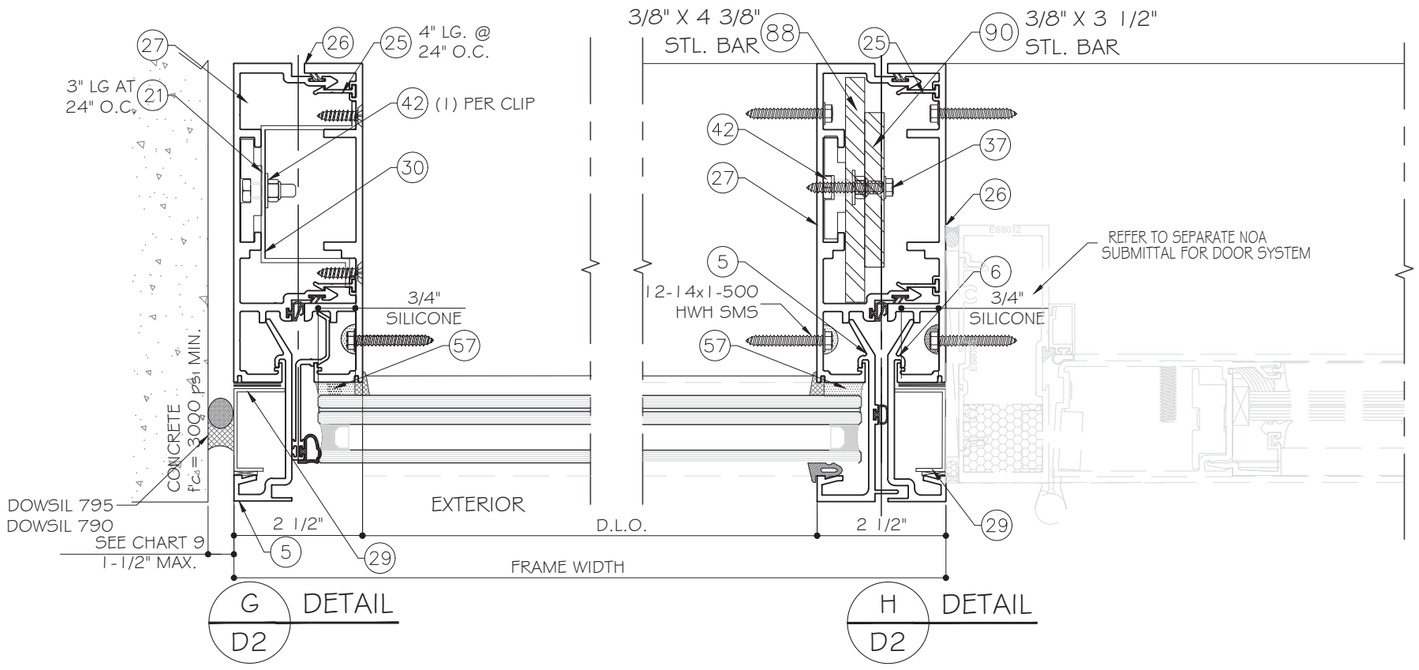


D DETAIL D2 | E DETAIL D2 | F DETAIL D2

MAX. JAMB HEIGHT	GAP MIN.
108"	1/2"
120"	9/16"
132"	5/8"
144"	11/16"
154"	3/4"
168"	13/16"
181"	7/8"

CHART 9

SILICONE SEALANT AT JAMB		
FRAME HEIGHT (IN.)	MIN. GAP REQUIRED	
	DOWSIL 795	DOWSIL 790
96	1/2"	3/8"
108	5/8"	3/8"
120	5/8"	3/8"
132	3/4"	7/16"
138	3/4"	7/16"
144	3/4"	1/2"
150	3/4"	1/2"
156	7/8"	1/2"



G DETAIL D2 | H DETAIL D2

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL. 33027
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T850B WINDOW WALL (LMI & SMI) WZ4

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9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

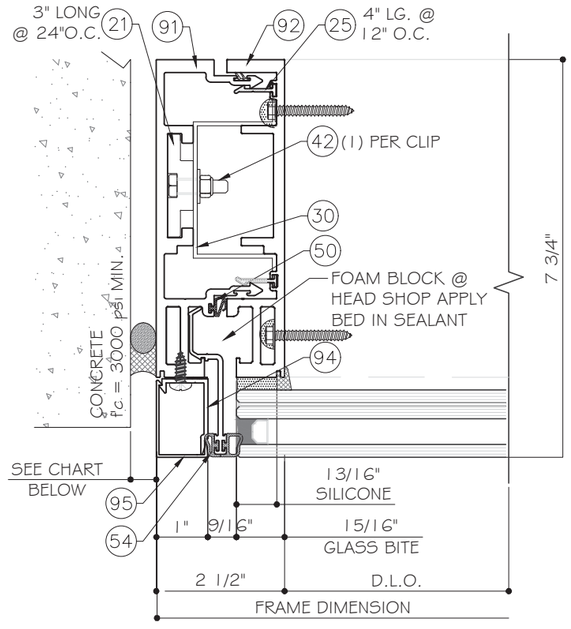
YIPING WANG, P.E.
FLORIDA REGISTRATION
LICENSE #
LIC. NO. 28677
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 6th, 2023

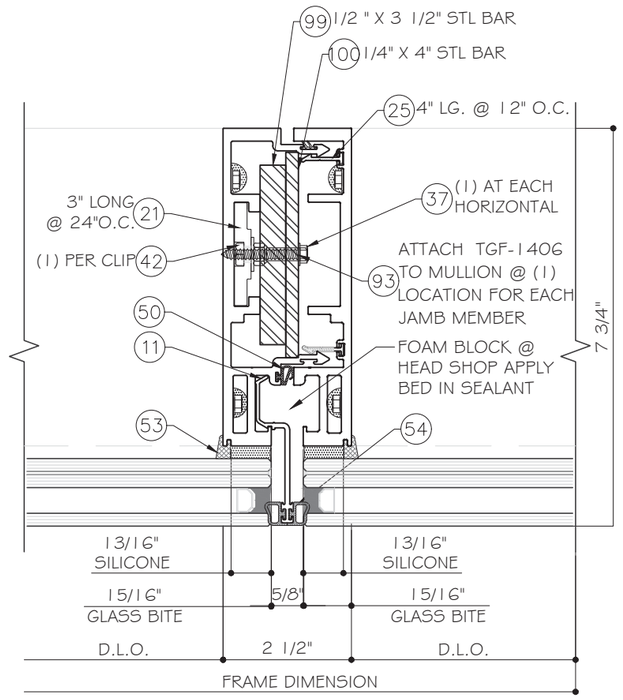
D2

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32



F1 / D2.1 DETAIL
LEVEL 'E' IMPACT



J1 / D2.1 DETAIL
LEVEL 'E' IMPACT

SILICONE SEALANT AT JAMB		
MAX. JAMB HEIGHT (IN.)	MIN. GAP REQUIRED	
	DOWSIL 795	DOWSIL 790
102	1/2"	5/16"
126	5/8"	3/8"
150	3/4"	1/2"
174	7/8"	9/16"
198	1	5/8"
222	1 3/16"	11/16"
246	1 1/4"	3/4"

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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T850B WINDOW WALL (LMI & SMI) WZ4

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ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

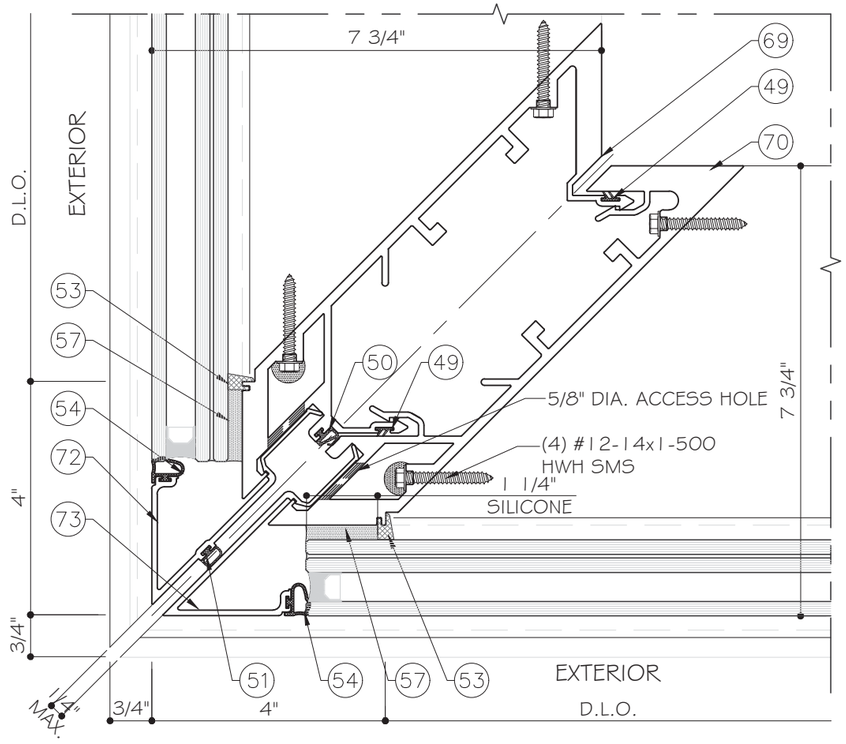
YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 6th, 2023

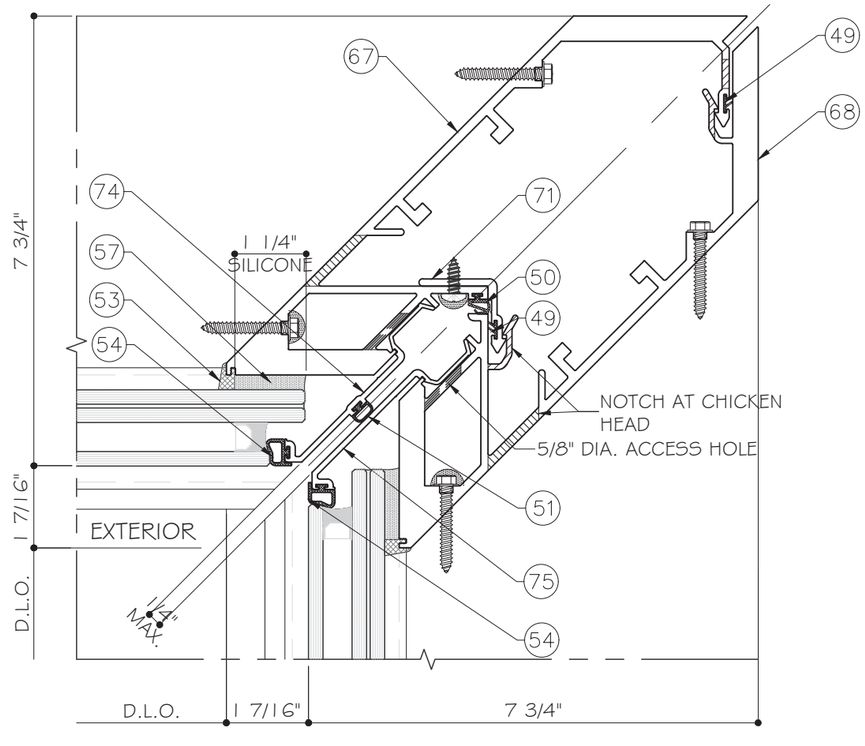
D2.1

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.G.
PROJECT	

DRAWING NO.
AD22-32



I DETAIL
D3



J DETAIL
D3

REVISIONS		
NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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

T850B WINDOW WALL (LMI & SMI) WZ4

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
LIC. #: 55983
CA LIC: 28677

STATE OF FLORIDA PROFESSIONAL ENGINEER
YIPING WANG LICENSE No 55983

June 6th, 2023

D3

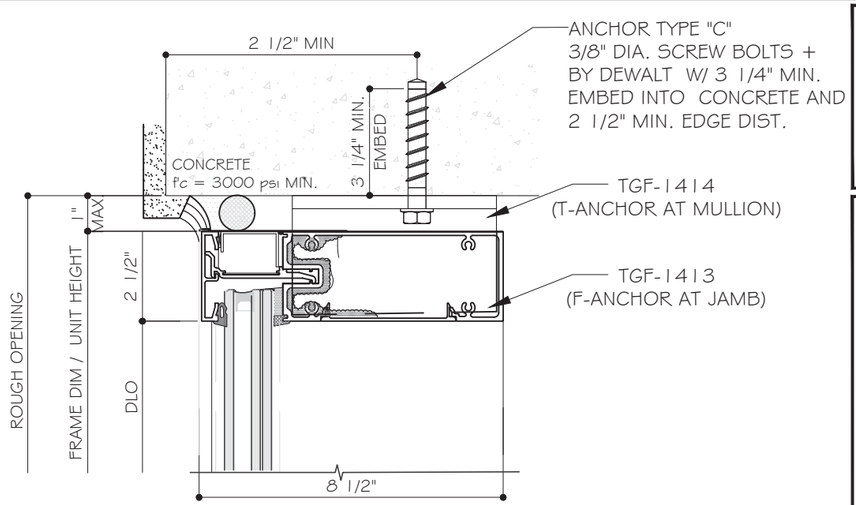
DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

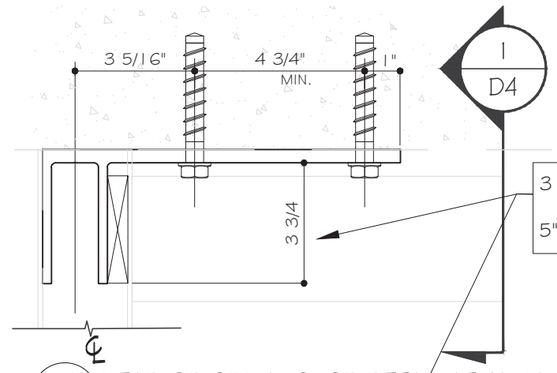
HEAD&SILL ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE C	
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
54	78	65.0	65.0
57		65.0	65.0
60		64.1	65.0
64		60.1	65.0
68		56.5	65.0
70		54.9	65.0
80		48.0	65.0
54	84	65.0	65.0
57		62.6	65.0
60		59.5	65.0
64		55.8	65.0
68		52.5	65.0
70		51.0	65.0
80		44.6	65.0
30	90	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		61.7	65.0
60		55.5	65.0
66		50.5	65.0
72		46.3	65.0
30	96	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		57.8	65.0
60		52.1	65.0
66		47.3	65.0
72		43.4	65.0
30	102	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		61.2	65.0
54		54.4	65.0
60		49.0	65.0
66		44.5	65.0
72		40.8	65.0
30	108	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		57.8	65.0
54		51.4	65.0
60		46.3	65.0
66		42.1	65.0
72		38.6	65.0
30	114	65.0	65.0
36		65.0	65.0
42		62.6	65.0
48		54.8	65.0
54		48.7	65.0
60		43.8	65.0
66		39.8	65.0
72		36.5	65.0

HEAD&SILL ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE C	
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
30	120	65.0	65.0
36		65.0	65.0
42		59.5	65.0
48		52.1	65.0
54		46.3	65.0
60		41.6	65.0
66		37.9	65.0
72		34.7	65.0
30	126	65.0	65.0
36		65.0	65.0
42		56.7	65.0
48		49.6	65.0
54		44.1	65.0
60		39.7	65.0
66		36.1	65.0
72		33.0	65.0
30	132	65.0	65.0
36		63.1	65.0
42		54.1	65.0
48		47.3	65.0
54		42.1	65.0
60		37.9	65.0
66		34.4	65.0
72		31.5	63.1
30	138	65.0	65.0
36		60.3	65.0
42		51.7	65.0
48		45.3	65.0
54		40.2	65.0
60		36.2	65.0
66		32.9	65.0
72		30.2	60.3
30	144	65.0	65.0
36		57.8	65.0
42		49.6	65.0
48		43.4	65.0
54		38.6	65.0
60		34.7	65.0
66		31.5	63.1
30	150	65.0	65.0
36		55.5	65.0
42		47.6	65.0
48		41.6	65.0
54		37.0	65.0
60		33.3	65.0
66		37.0	60.6
30	156	64.1	65.0
36		53.4	65.0
42		45.8	65.0
48		40.0	65.0
54		35.6	65.0
60		32.0	64.1

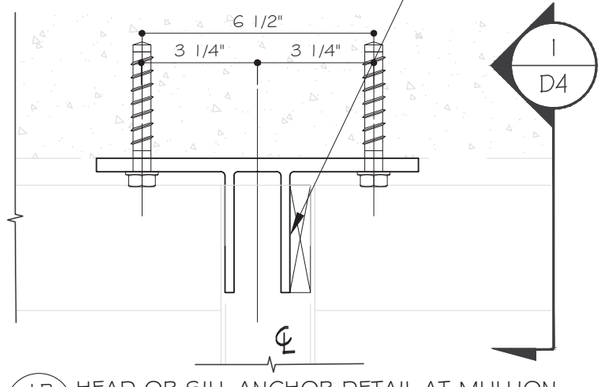
HEAD&SILL ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE C	
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
30	162	61.7	65.0
36		51.4	65.0
42		44.1	65.0
48		38.6	65.0
54		34.3	65.0
60		30.8	61.7
30	168	59.5	65.0
36		49.6	65.0
42		42.5	65.0
48		37.2	65.0
54		33.0	65.0
60		29.7	59.5
30	174	57.4	65.0
36		47.9	65.0
42		41.0	65.0
48		35.9	65.0
54		31.9	63.8
30	180	55.5	65.0
36		46.3	65.0
42		39.7	65.0
48		34.7	65.0
54		30.8	61.7
30	186	53.7	65.0
36		44.8	65.0
42		38.4	65.0
48		33.6	65.0
30	192	52.1	65.0
36		43.4	65.0
42		37.2	65.0
48		32.5	65.0
30	198	50.5	65.0
36		42.1	65.0
42		36.1	65.0
48		31.5	63.1
30	204	49.0	65.0
36		40.8	65.0
42		35.0	65.0
48		30.6	61.2
30	210	47.6	65.0
36		39.7	65.0
42		34.0	65.0
30	216	46.3	65.0
36		38.6	65.0
42		33.0	65.0
30	222	45.0	65.0
36		37.5	65.0
42		32.2	64.3
30	228	43.8	65.0
36		36.5	65.0
42		31.3	62.6
30	234	42.7	65.0
36		35.6	65.0
42		30.5	61.0
30	240	41.6	65.0
36		34.7	65.0
42		29.7	59.5
30	246	40.6	65.0
36		33.9	65.0



1 / D4 HEAD OR SILL ANCHOR WITH "T" CLIP & "F" CLIP (WIND LOAD ANCHOR ONLY) LEVEL E IMPACT



1A / D4 HEAD OR SILL ANCHOR DETAIL AT JAMB AT BOTTOM OF SLAB



1B / D4 HEAD OR SILL ANCHOR DETAIL AT MULLION AT BOTTOM OF SLAB

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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

T850B WINDOW WALL (LMI & SMI) WZ4

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9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

D4

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.G.
PROJECT	

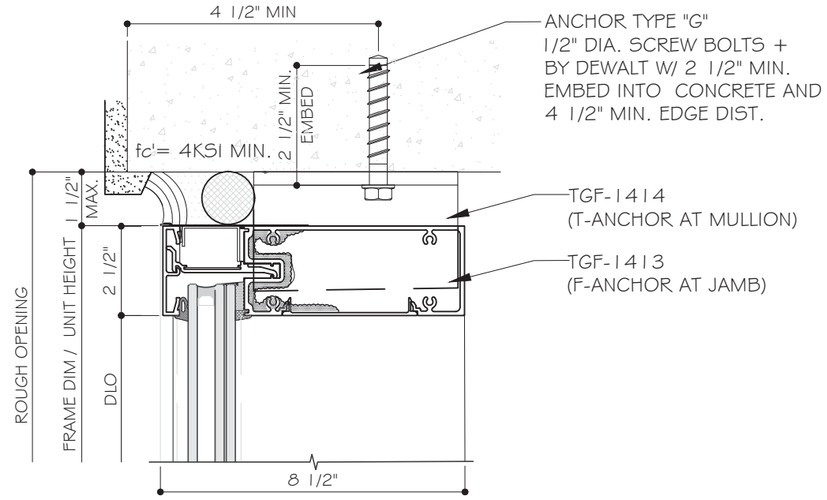
DRAWING NO.
AD22-32

June 6th, 2023

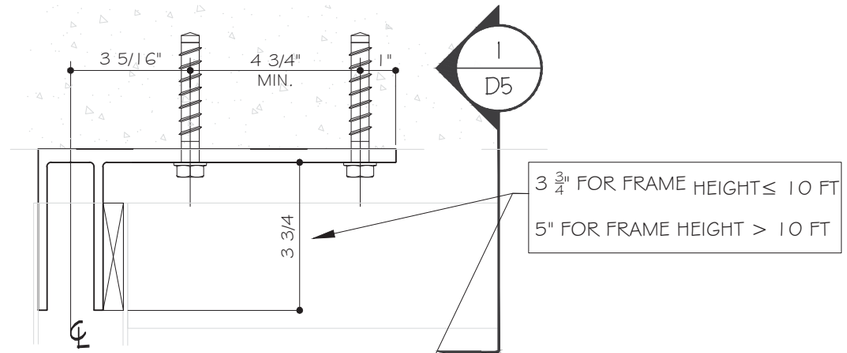
HEAD&SILL ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE G	
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
30	78	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0
30	84	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0
30	90	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0
30	96	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0
30	102	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0
30	108	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0
30	114	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0

HEAD&SILL ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE G	
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
30	120	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	80.0
30	126	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
72		80.0	76.8
30	132	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	80.0
30	138	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
66		80.0	76.5
30	144	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	80.0
30	150	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	77.4
30	156	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
60		80.0	74.4

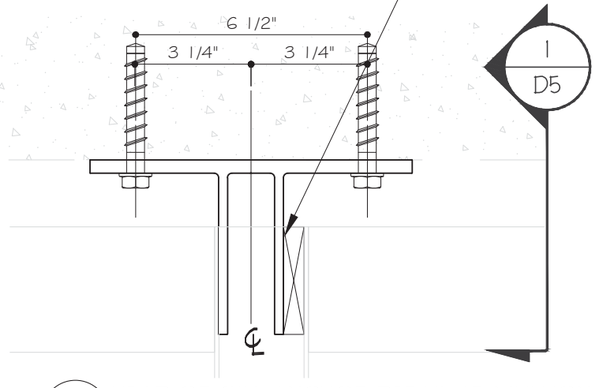
HEAD&SILL ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE G	
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
30	162	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
30	168	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
54		80.0	80.0
30	174	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
30	180	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
30	186	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
30	192	80.0	80.0
36		80.0	80.0
42		80.0	80.0
48		80.0	80.0
30	198	80.0	80.0
36		80.0	80.0
42		80.0	80.0
30	204	80.0	80.0
36		80.0	80.0
42		80.0	80.0
30	210	80.0	80.0
36		80.0	80.0
42		80.0	80.0
30	216	80.0	80.0
36		80.0	80.0
42		80.0	80.0
30	222	80.0	80.0
36		80.0	80.0
42		80.0	80.0
30	228	80.0	80.0
36		80.0	80.0
42		80.0	80.0
30	234	80.0	80.0
36		80.0	80.0
30	240	80.0	80.0
36		80.0	80.0
30	246	80.0	80.0
36		80.0	80.0



1 / D5 HEAD OR SILL ANCHOR WITH "T" CLIP & "F" CLIP (WIND LOAD ANCHOR ONLY) LEVEL E IMPACT



1A / D5 HEAD OR SILL ANCHOR DETAIL AT JAMB AT BOTTOM OF SLAB



1B / D5 HEAD OR SILL ANCHOR DETAIL AT MULLION AT BOTTOM OF SLAB

REVISIONS			
NO	DATE	DESCRIPTION	
1	05.04.23	APPLICATION	

MCY ENGINEERING, INC.
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9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, P.E.
FLORIDA REGISTRATION
NO. 55983
YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

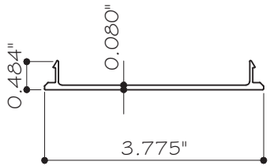
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DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

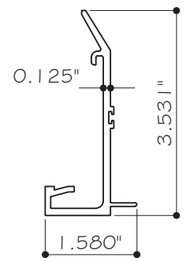
DRAWING NO.
AD22-32

19 OF 25

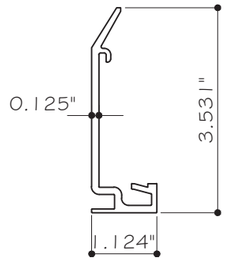
June 6th, 2023



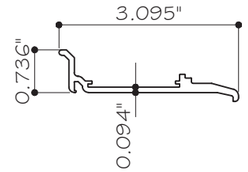
1 HORIZONTAL FILLER
TGF-1202 ALUM. 6063-T6



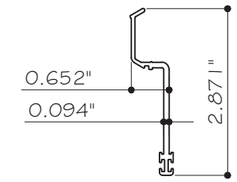
5 MALE CLOSURE
TGF-1311 ALUM. 6063-T6



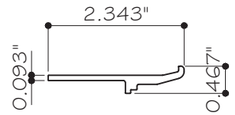
6 FEMALE CLOSURE
TGF-1312 ALUM. 6063-T6



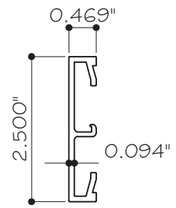
8 1-5/16" CAPTURED GLAZING ADAPTOR
TGF-1315 ALUM. 6063-T6



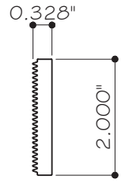
11 ALUMINUM WEATHER STRIP ADAPTER
TGF-1318 ALUM. 6063-T6



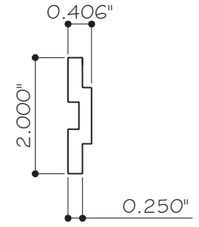
12 INTERMEDIATE HORIZONTAL SETTING CHAIR
TGF-1319 ALUM. 6063-T6



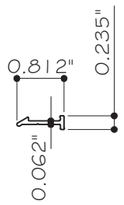
13 GLAZING COVER
TGF-1331 ALUM. 6063-T6



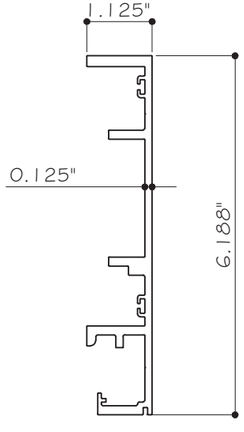
18 SERRATED WASHER
TGF-1402 ALUM. 6063-T6



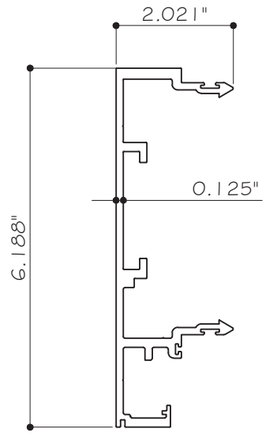
21 JAMB SPACER
TGF-1406 ALUM. 6063-T6



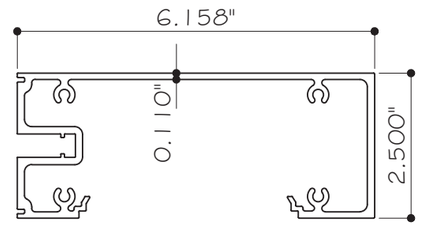
25 MULLION CLIP
CTW-1117 ALUM. 6063-T6



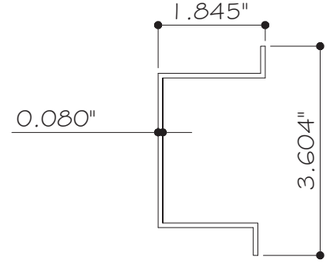
26 FRAME JAMB / MALE VERTICAL MULLION
CTW-1123 ALUM. 6063-T6



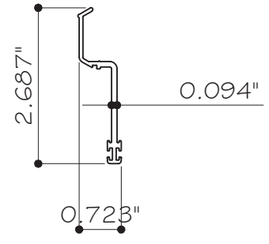
27 FRAME JAMB / FEMALE VERTICAL MULLON
CTW-1124 ALUM. 6063-T6



28 FRAME HEAD / HORIZONTAL MULLION
CTW-1221 ALUM. 6063-T6



30 ALUMINUM FRAME FILLER
CTW-1350 ALUM. 6063-T6



31 VERTICAL DRY GASKET ADAPTER
CTW-1360 ALUM. 6063-T6

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

MCY ENGINEERING, INC.
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T850B WINDOW WALL (LMI & SMI) WZ4

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9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG, PE
FLORIDA REGISTRATION
LICENSE
C.A. No. 28677

YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

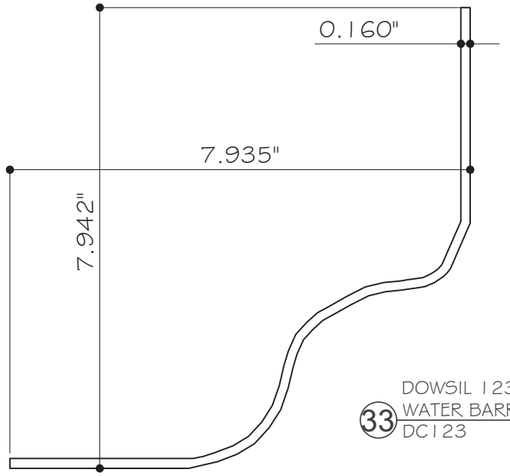
PARTS

DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

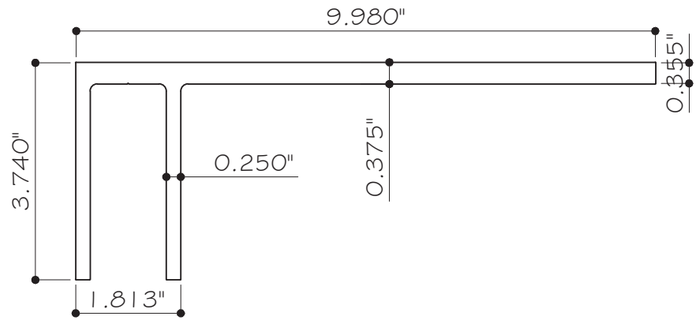
DRAWING NO.
AD22-32

20 OF 25

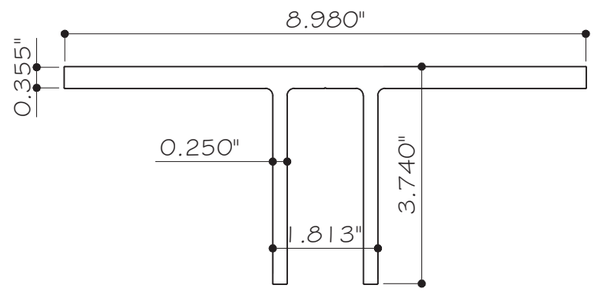
June 6th, 2023



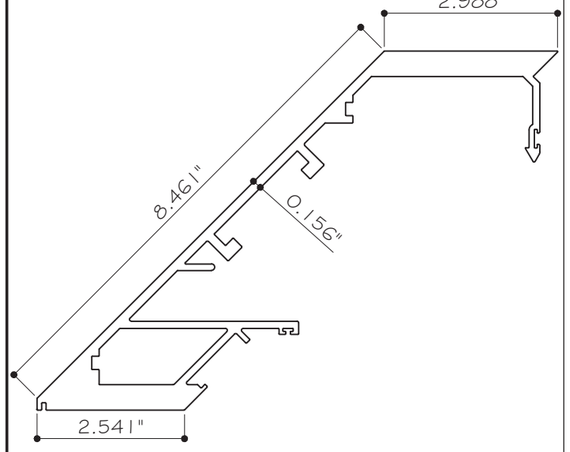
33 DOWSIL 123 SILICONE WATER BARRIER
DC123 SILICONE



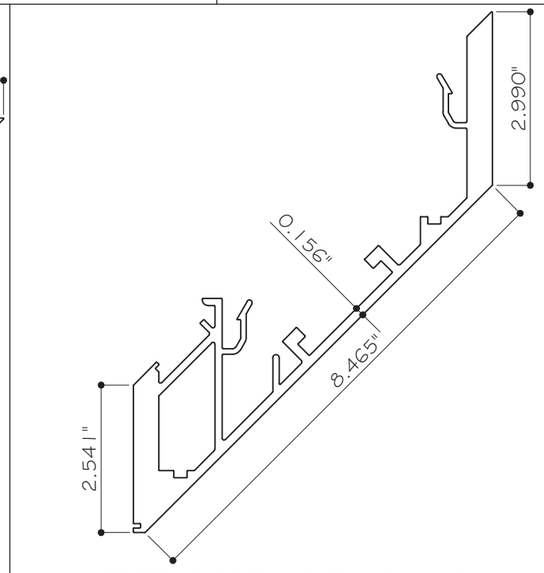
86 "F" ANCHOR
TGF-1413 ALUM. 6005-T5



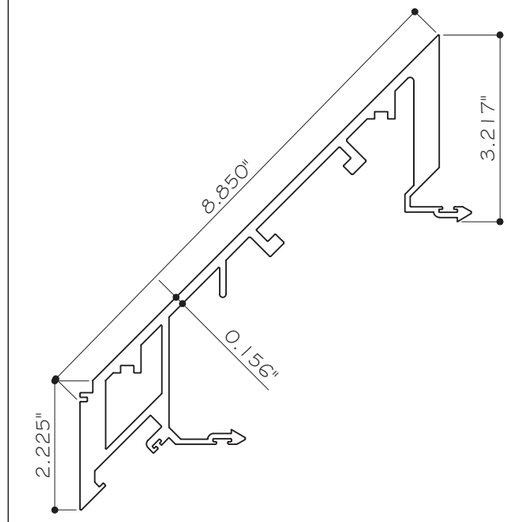
87 "T" ANCHOR
TGF-1414 ALUM. 6005-T5



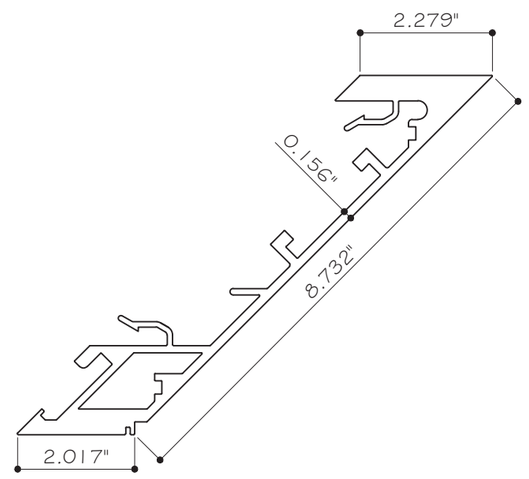
67 90° INSIDE CORNER MALE MULLION
TGF-1110 ALUM. 6063-T6



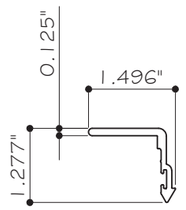
68 90° INSIDE CORNER FEMALE MULLION
TGF-1111 ALUM. 6063-T6



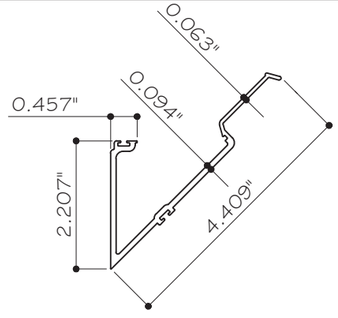
69 90° OUTSIDE CORNER MALE MULLION
TGF-1112 ALUM. 6063-T6



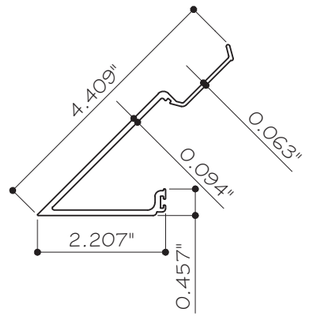
70 90° OUTSIDE CORNER FEMALE MULLION
TGF-1113 ALUM. 6063-T6



71 90° INSIDE CORNER ANTI-BUCKLING CLIP
CTW-1115 ALUM. 6063-T6



72 OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS
TGF-1352 ALUM. 6063-T6



73 OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS
TGF-1353 ALUM. 6063-T6

REVISIONS

NO	DATE	DESCRIPTION
1	05/04/23	APPLICATION

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FLORIDA APPROVAL:
FL#23007.3

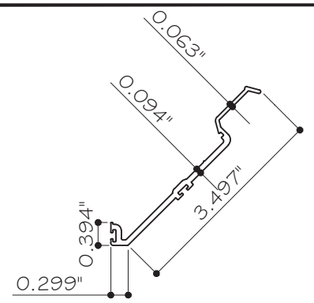
YIPING WANG, P.E.
FLORIDA REGISTRATION
LIC. NO. 55983
LIC. 28677
STATE OF FLORIDA PROFESSIONAL ENGINEER

PARTS

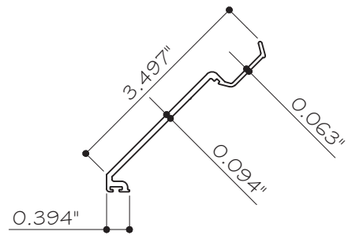
DATE	05/04/2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

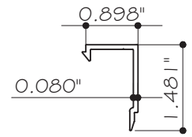
June 6th, 2023



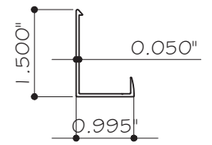
74 INSIDE CORNER CLOSURE FOR 1-5/16" GLASS
TGF-1356 ALUM. 6063-T6



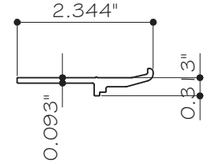
75 INSIDE CORNER CLOSURE FOR 1-5/16" GLASS
TGF-1357 ALUM. 6063-T6



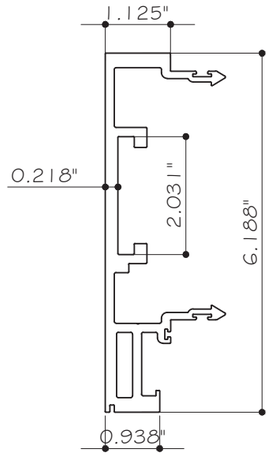
94 PERIMETER POCKET FILLER
WLB-2002 ALUM. 6063-T6



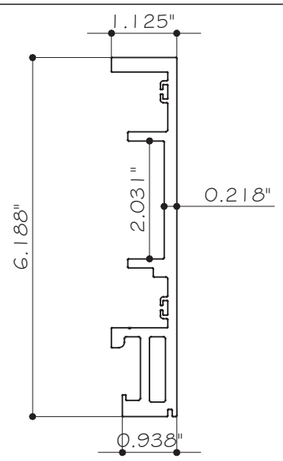
95 PERIMETER POCKET FILLER
WLB-2003 ALUM. 6063-T6



97 INTERMEDIATE HORIZONTAL SETTING CHAIR
1319A ALUM. 6063-T6



91 FRAME JAMB / MALE VERTICAL MULLION
CTW-1131 ALUM. 6063-T6



92 FRAME JAMB / FEMALE VERTICAL MULLION
CTW-1132 ALUM. 6063-T6

REVISIONS

NO	DATE	DESCRIPTION
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REG. NO.: 28677

YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 6th, 2023

PARTS

DATE	05/04/2023
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DRAWN	A.O.
PROJECT	

DRAWING NO.
AD22-32

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	TGF-1202	HORIZONTAL FILLER AT HEAD AND INTERMEDIATE	ALUM. 6063-T6	BONNELL
5	TGF-1311	MALE CLOSURE	ALUM. 6063-T6	BONNELL
6	TGF-1312	FEMALE CLOSURE	ALUM. 6063-T6	BONNELL
8	TGF-1315	1-5/16" CAPTURED GLAZING ADAPTOR	ALUM. 6063-T6	BONNELL
11	TGF-1318	ALUMINUM WEATHER STRIP ADAPTOR	ALUM. 6063-T6	BONNELL
12	TGF-1319	INTERMEDIATE HORIZONTAL SETTING CHAIR	ALUM. 6063-T6	BONNELL
13	TGF-1331	GLAZING COVER	ALUM. 6063-T6	BONNELL
18	TGF-1402	SERRATED WASHER, 2" LG.	ALUM. 6005-T5	BONNELL
21	TGF-1406	JAMB SPACER	ALUM. 6005-T5	BONNELL
25	CTW-1117	MULLION CLIP	ALUM. 6063-T5	BONNELL
26	CTW-1123	FRAME JAMB / MALE VERTICAL MULLION	ALUM. 6063-T6	MI METALS, INC.
27	CTW-1124	FRAME JAMB / FEMALE VERTICAL MULLION	ALUM. 6063-T6	MI METALS, INC.
28	CTW-1221	FRAME HEAD / HORIZONTAL MULLION	ALUM. 6063-T6	MI METALS, INC.
29	CTW-1350	ALUMINUM FRAME FILLER	ALUM. 6063-T6	BONNELL
30	CTW-1352	MULLION FILLER REINFORCEMENT	ALUM. 6063-T6	BONNELL
32	SB-1	SETTING BLOCK. 6" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 70 DURO	TREMCO
33	123	WATER BARRIER	-	DOWSIL
34	FS-1	#12-14 X 1-1/2" HWH SMS	ZINC PLATED STEEL	-
37	F1	#12-14x1-500 HWH SMS	ZINC PLATED STEEL	VARIES
39	F10	3/8" DIA. SS BOLT, W/ (3) BOLTS FOR CORNER MULLION, W/ (2) BOLTS FOR TYPICAL MULLION (1/2" DIA.)	STAINLESS STEEL	VARIES
41	F14	3/8" X 1-3/4" FH BOLT W/ FLAT WASHER AND LOCK NUT	ZINC PLATED STEEL	VARIES
42	F25	1/4" X 1" HEX HEAD THRU BOLT W/ WASHER AND LOCK NUT	ZINC PLATED STEEL	VARIES
43	F27	#14 x 2" LG. HWH SDS	ZINC PLATED STEEL	VARIES
44	-	SPACER	ALUMINUM	ALL METAL, INC.
45	-	2" X 2" X $\frac{1}{4}$" THK. ALUM. ANGLE. (3-3/4" LG. AT BOTH SIDES OF MULLION)	ALUMINUM	HALL METALS
46	AP1	END DAM	METAL	C.T. WINDOWS
47	AP2	END DAM AT DOOR JAMB	METAL	C.T. WINDOWS
49	G1	PRESET WIPER GASKET	EPDM 70 DURO	TREMCO
50	G2	PRESET AIR SEAL BULB GASKET	EPDM 70 DURO	TREMCO
51	G3	PRESET RUN SCREEN GASKET	EPDM 70 DURO	TREMCO
52	G4	GASKET	EPDM 70 DURO	TREMCO
53	TR-5796	GASKET	EPDM 70 DURO	TREMCO
54	G6	PRESET GLASS EDGE BULB GASKET	EPDM 70 DURO	TREMCO

REVISIONS

NO	DATE	DESCRIPTION
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MCY ENGINEERING, INC.
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T850B WINDOW WALL (LMI & SMI) WZ4

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

FLORIDA APPROVAL:
FL#23007.3

YIPING WANG
FLORIDA REGISTRATION
LICENSE
LIC. NO. 28677
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 6th, 2023

BOM

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BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
57	S1	DOWSIL 983 OR PROGLAZE II + BASE	SILICONE	DOWSIL/TREMCO
58	S2	DOWSIL 795 OR SPECTRUM 2	SILICONE	DOWSIL/TREMCO
59	S3	DOWSIL 791 OR SPECTRUM 1	SILICONE	DOWSIL/TREMCO
61	162335	PRESSURE PLATE	ALUM. 6063-T6	KAWNEER
63	TR-893E	GASKET	60 DUROMETER	TREMCO
67	TGF-1110	90° INSIDE CORNER MALE MULLION	ALUM. 6063-T6	CT WINDOW
68	TGF-1111	90° INSIDE CORNER FEMALE MULLION	ALUM. 6063-T6	CT WINDOW
69	TGF-1112	90° OUTSIDE CORNER MALE MULLION	ALUM. 6063-T6	CT WINDOW
70	TGF-1113	90° OUTSIDE CORNER FEMALE MULLION	ALUM. 6063-T6	CT WINDOW
71	TGF-1115	90° INSIDE CORNER ANTI-BUCKLING CLIP	ALUM. 6063-T6	CT WINDOW
72	TGF-1352	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
73	TGF-1353	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
74	TGF-1356	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
75	TGF-1357	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
86	TGF-1413	"F" ANCHOR	ALUM. 6005-T5	CT WINDOW
87	TGF-1414	"T" ANCHOR	ALUM. 6005-T5	CT WINDOW
88	R3	3/8" X 120" X 4 3/8" THICK STEEL FLAT BAR	STEEL	VARIES
89	R4	1/4" X 120" X 3 1/2" THICK STEEL FLAT BAR	STEEL	VARIES
90	R5	3/8" X 120" X 3 1/2" THICK STEEL FLAT BAR	STEEL	VARIES
91	CTW-1131	FRAME JAMB / MALE VERTICAL MULLION	ALUM. 6063-T6	BONNELL
92	CTW-1132	FRAME JAMB / FEMALE VERTICAL MULLION	ALUM. 6063-T6	BONNELL
93	F32		STEEL	VARIES
94	WLB-2002	PERIMETER POCKET FILLER	ALUM. 6063-T6	CT WINDOW
95	WLB-2003	PERIMETER POCKET FILLER	ALUM. 6063-T6	CT WINDOW
96	SB-3	SETTING BLOCK. 4" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 70 DURO	TREMCO
97	TGF-1319A	INTERMEDIATE HORIZONTAL SETTING CHAIR	ALUM. 6063-T6	CT WINDOW
99	-	1/2" X 120" X 3 1/2" THICK STEEL FLAT BAR	STEEL	VARIES
100	-	1/4" X 120" X 4" THICK STEEL FLAT BAR	STEEL	VARIES

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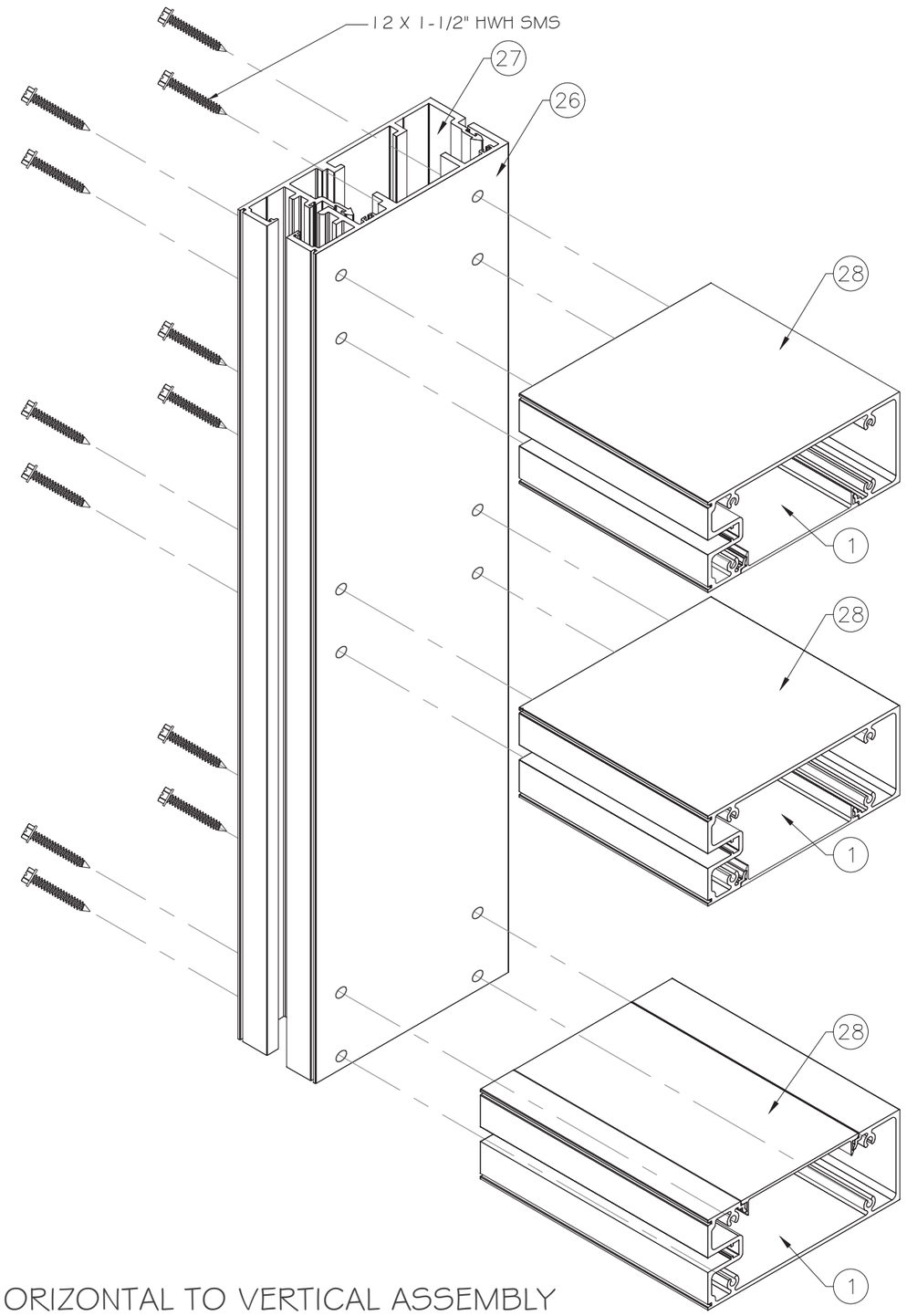
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HORIZONTAL TO VERTICAL ASSEMBLY

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ASSEMBLY

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