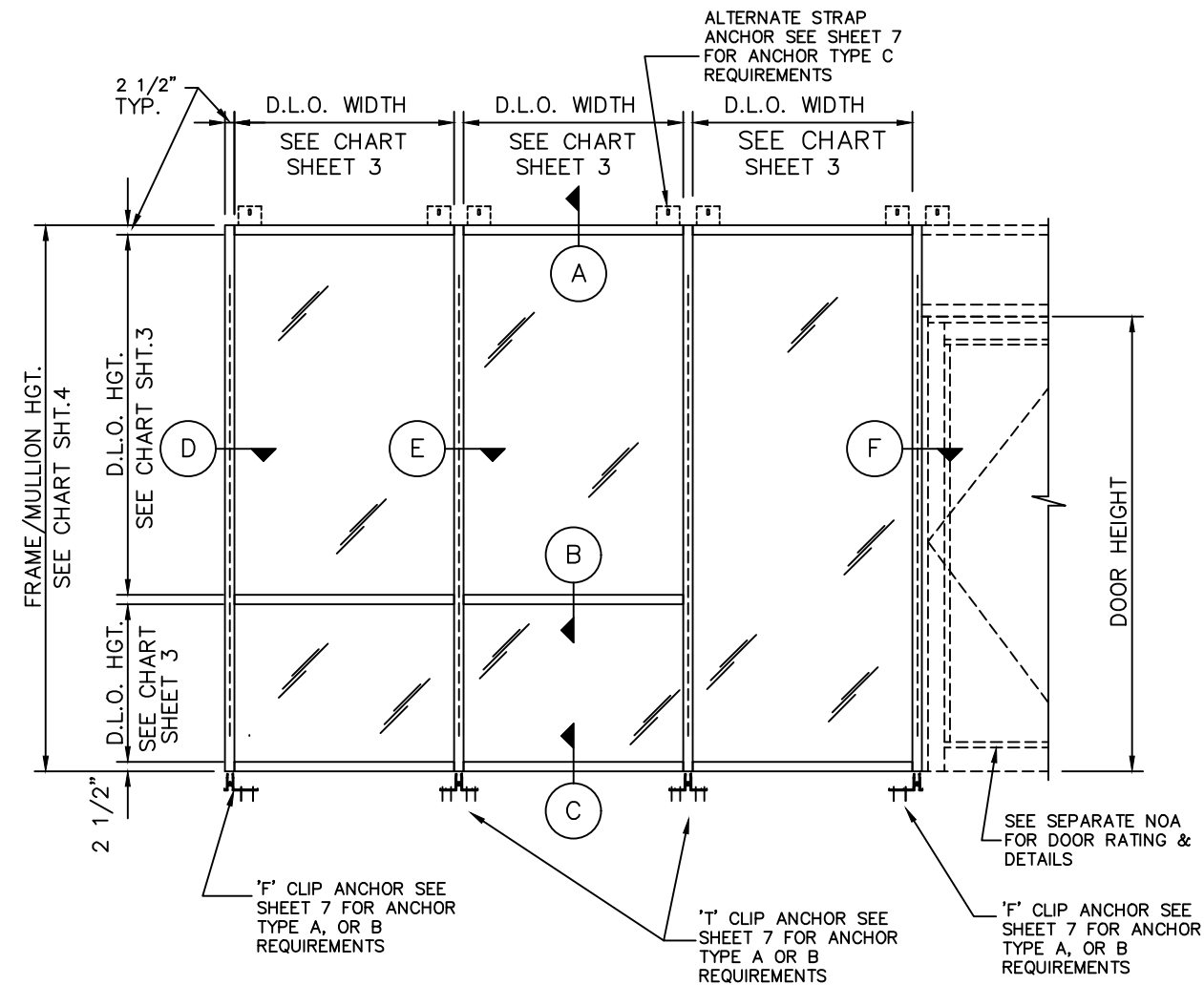
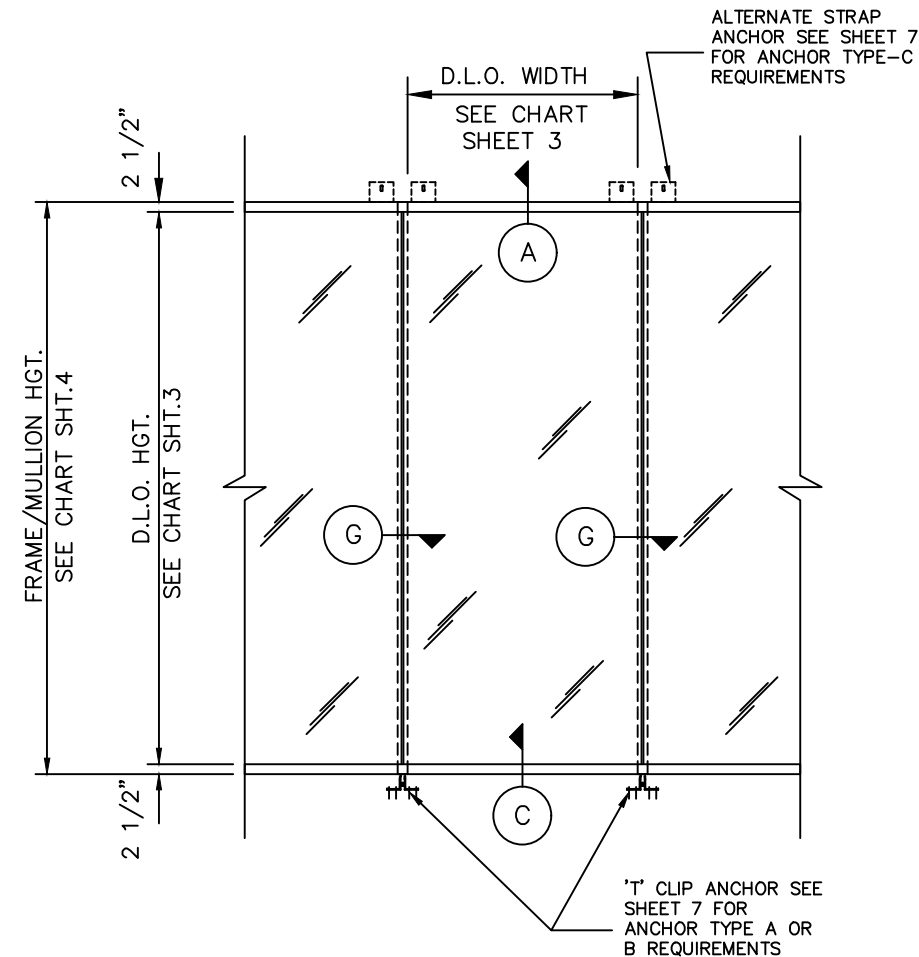
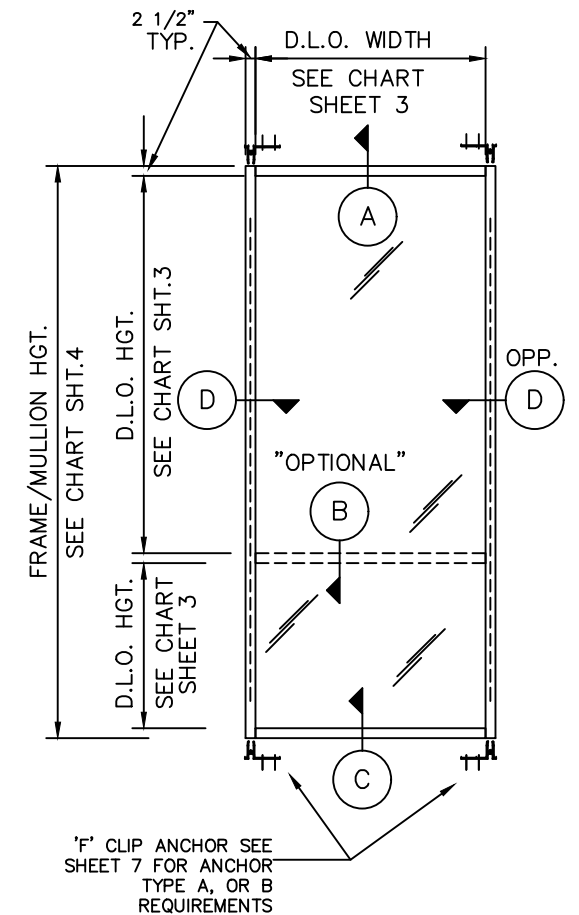




TYPICAL ELEVATION
MULTIPLE UNITS
W/ TGF-209 FACE
COVER



TYPICAL ELEVATION
W/ VERTICAL BUTT
JOINTS
(STRUCTURALLY
GLAZED OPTION)



TYPICAL ELEVATION
SINGLE FIXED WINDOW
(PUNCHED OPENING)

NOTES:

- 1.) ALUMINUM WINDOW WALL SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
- 2.) THIS SYSTEM MAY BE USED IN CONJUNCTION WITH APPROVED ENTRANCE DOORS.
- 3.) CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
- 4.) THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE FLORIDA BUILDING CODE, BUILDING, 7TH EDITION (2020).
- 5.) WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. BUCKS SHALL BE DESIGNED BY PROFESSIONAL ENGINEER OF RECORD
- 6.) ANCHORS SHALL BE AS LISTED IN CHARTS AND SPACED AS DETAILED.
- 7.) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 8.) ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE SEPARATED.

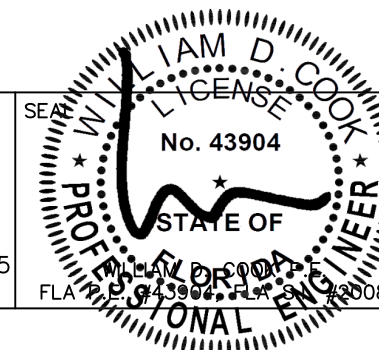
INSTRUCTIONS:

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE. USING APPLICABLE ASCE 7 STANDARDS.
- STEP 2: SEE CHARTS ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. MATCH GLASS SIZE AND DESIGN LOAD
- STEP 3: CHECK MULLION CAPACITY FOR GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 4. THE CAPACITY SHOULD EQUAL OR EXCEED THE DESIGN LOAD.
- STEP 4: USING CHARTS ON SHEET 5 SELECT ANCHOR OPTION WITH WITH DESIGN RATING EQUAL TO OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1.

TCW-250P SERIES WINDOW WALL SYSTEM
W/ REINFORCED MULLIONS
APPROVED FOR VERTICAL FACE COVERS OR
BUTT JOINTS
LARGE MISSILE IMPACT

PROJECT NAME: TCW-250P LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250P.LMI.R	DRAW BY: M.G.	PRODUCT APPROVAL NO.: 17655.1
SHT. 1 OF 9	SCALE: 1/4" = 1'-0"	DATE: 10/27/2020

ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901



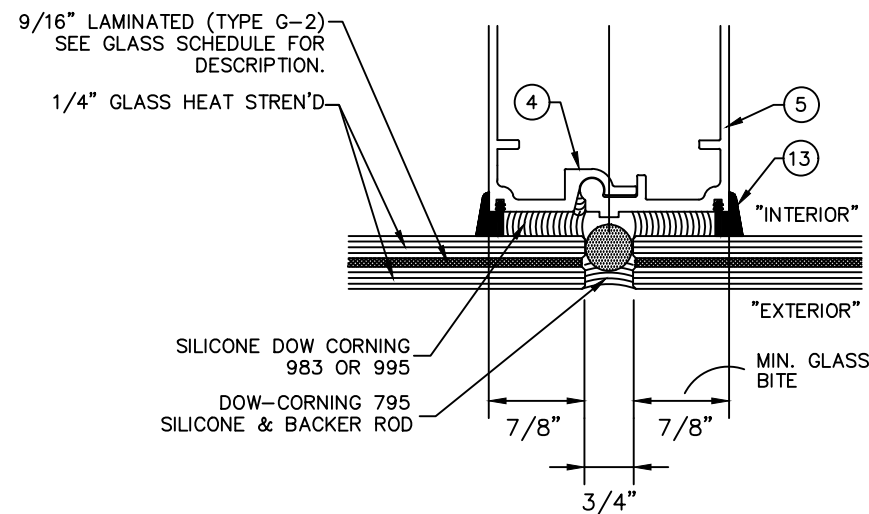
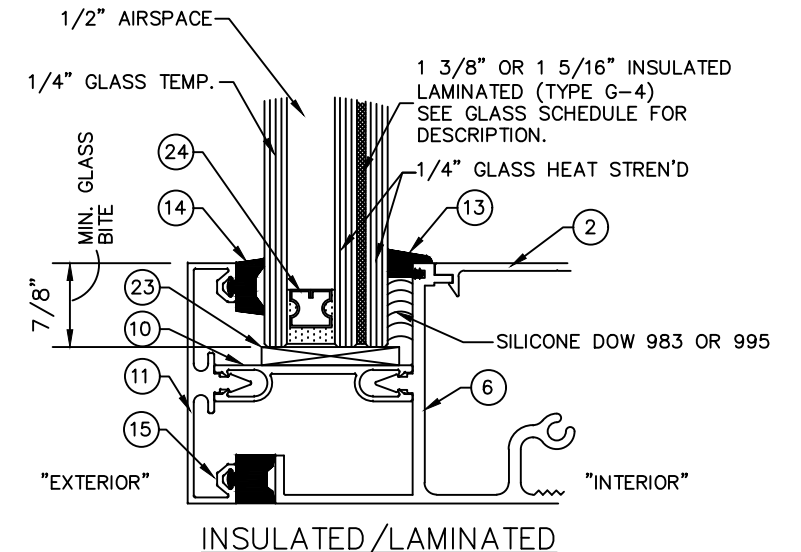
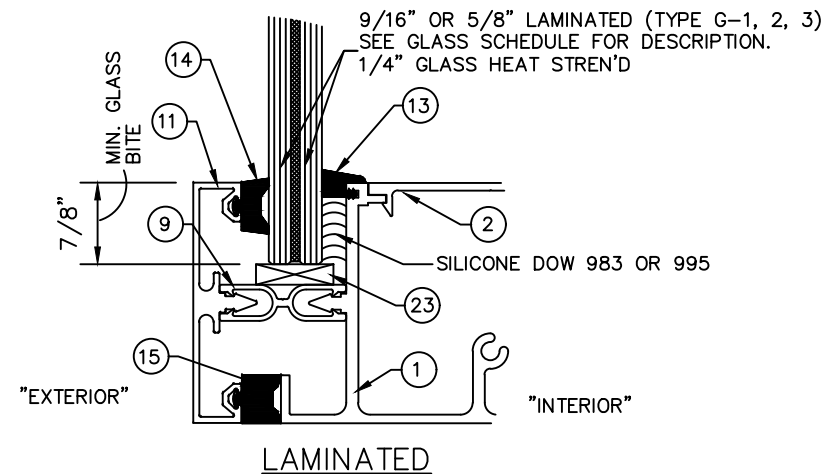
BROMLEY-COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634

GLASS SCHEDULE

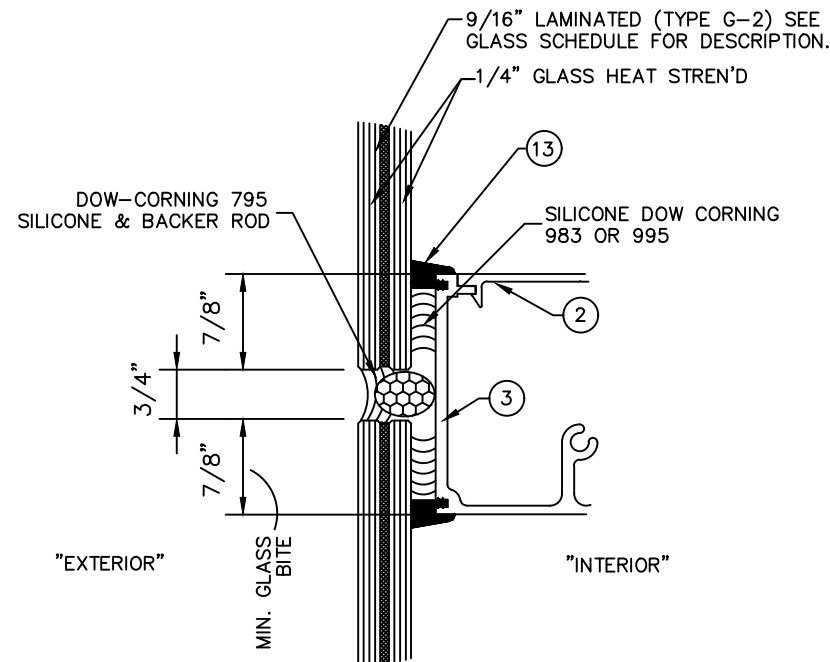
TYPE	NOMINAL THCKNSS	DESCRIPTION		MISSILE TYPE
G-1	9/16"	LAMINATED SAFLEX HP GLASS (VISION OR SPANDREL)	1/4" HS OUTBOARD 0.100" SAFLEX HP PVB BY EASTMAN CHEMICAL COMPANY (INTERLAYER) 1/4" HS INBOARD	LARGE
G-2	9/16"	LAMINATED SAFLEX CP	1/4" HS OUTBOARD 0.075" SAFLEX CP - SAFLEX COMPOSITE GLASS INTERLAYER WITH PET CORE BY EASTMAN CHEMICAL COMPANY (INTERLAYER) 1/4" HS INBOARD	LARGE
G-3	9/16"	LAMINATED "SENTRYGLAS"	1/4" HS OUTBOARD 0.090" SENTRYGLAS BY DUPONT (INTERLAYER) 1/4" HS INBOARD	LARGE
G-4	1 5/16"	INSULATED LAMINATED SAFLEX HP GLASS (VISION OR SPANDREL)	1/4" TEMP. OUTBOARD 1/2" AIRSPACE 1/4" HS/0.100" SAFLEX HP PVB BY EASTMAN CHEMICAL COMPANY (INTERLAYER) 1/4" HS INBOARD	LARGE

OPTIONAL: 6mm THK. COMPOSITE ALUMINUM PANEL IN LIEU OF GLAZING
(COMPOSITION: .030" ALUM. SHEET - 3/16" PLYWOOD - .030" ALUM. SHEET)

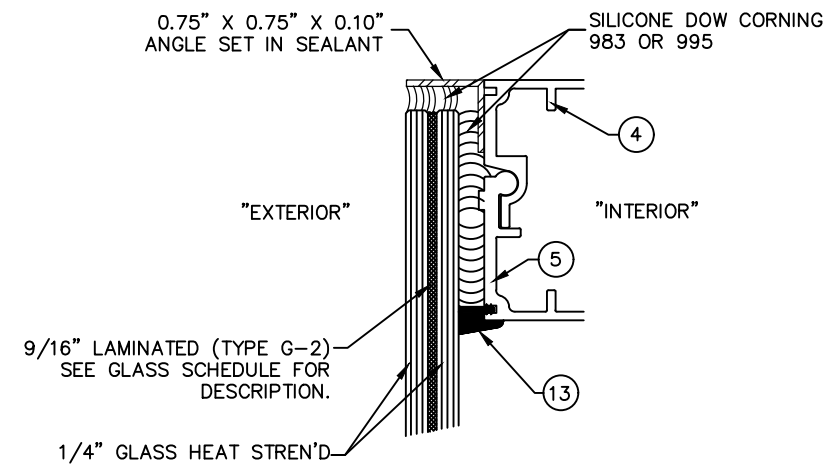
GLAZING DETAILS



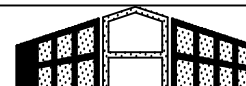
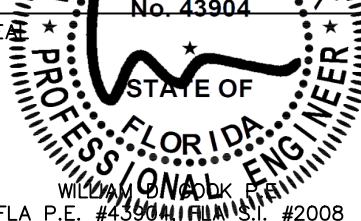
VERTICAL BUTT JOINT
STRUCTURALLY GLAZED



HORIZONTAL BUTT JOINT
STRUCTURALLY GLAZED



JAMB STRUCTURALLY GLAZED

PROJECT NAME: TCW-250P LMI (W/REINFORCING)			 ALDORA ALUMINUM AND GLASS PRODUCTS, INC. 11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025 PHONE: (954) 784-6900 FAX: (954) 784-6901	 WILLIAM D. COOK, P.E. FLA P.E. #43904 / FLA S.E. #2008	BROMLEY-COOK ENGINEERING, INC. STRUCTURAL ENGINEERING SERVICES 5440 N.W. 33RD AVENUE SUITE 100 FORT LAUDERDALE, FLORIDA 33309 TEL: (954) 772-4624 FAX: (954) 772-4634
DRAWING NUMBER: TCW-250P.LMI.R	DRAW BY: M.G.	PRODUCT APPROVAL NO.: 17655.1			
SHT. 2 OF 9	SCALE: N.T.S.	DATE: 10/27/2020			

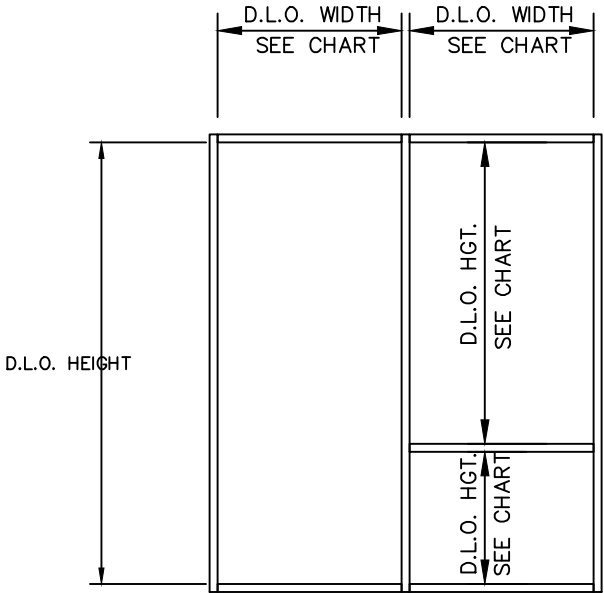
GLASS LOAD CAPACITY – P.S.F.

NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G1, G3		LAMINATED GLASS (STRUCTURALLY GLAZED) GLASS TYPE: G2		LAMINATED-INSULATED GLASS TYPE: G4	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)
42"	81"	80	110	80	102	80	110
45"		80	110	80	102		
48"		80	110	80	102		
51"		80	110	80	102		
54"		80	110	80	102		
57"		80	110	80	102		
60"		80	110	80	100		
63"		80	109	80	98		
66"		80	107	80	95		
42"	84"	80	110	80	102		
45"		80	110	80	102		
48"		80	110	80	102		
51"		80	110	80	102		
54"		80	110	80	102		
57"		80	107	80	102		
60"		80	105	80	100		
64"		80	102	80	96		
42"	87"	80	110	80	102		
45"		80	110	80	102		
48"		80	110	80	102		
51"		80	110	80	102		
54"		80	105	80	102		
57"		80	102	80	102		
60"		80	99	80	100		
62"		80	98	80	98		
39"	90"	80	110	80	102		
42"		80	110	80	102		
45"		80	110	80	102		
48"		80	107	80	102		
51"		80	103	80	102		
54"		80	100	80	102		
57"		80	97	80	102		
60"		80	94	80	100		
36"	93"	80	110	80	102		
39"		80	110	80	102		
42"		80	110	80	102		
45"		80	107	80	102		
48"		80	102	80	102		
51"		80	98	80	102		
54"		80	95	80	102		
58"		80	91	80	102		

NOTE: GLASS CHECK BASED ON TESTING AND ASTM E1300-09

GLASS LOAD CAPACITY – P.S.F.

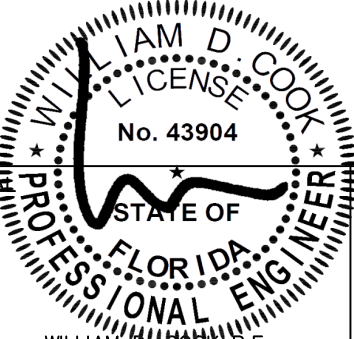
NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G1, G3		LAMINATED GLASS (STRUCTURALLY GLAZED) GLASS TYPE: G2		LAMINATED-INSULATED GLASS TYPE: G4	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)
39"	95"	80	110	80	102	80	110
42"		80	109	80	102		
45"		80	104	80	102		
48"		80	99	80	102		
51"		80	96	80	102		
54"		80	92	80	102		
56"		80	90	80	102		
36"		80	110	80	102		
39"	99"	80	109	80	102		
42"		80	103	80	102		
45"		80	98	80	102		
48"		80	94	80	102		
51"		80	90	80	102		
54"		80	90	80	102		
36"		80	110	80	102		
39"		80	105	80	102		
42"	102"	80	100	80	102		
45"		80	95	80	102		
48"		80	90	80	102		
51"		80	90	80	102		
53"		80	90	80	102		
36"		80	108	80	102		
39"		80	102	80	102		
42"		80	96	80	102		
45"	105"	80	91	80	102		
48"		80	90	80	102		
51"		80	90	80	102		
36"		80	105	80	102		
39"		80	98	80	102		
42"		80	93	80	102		
45"		80	90	80	102		
48"		80	90	80	102		
50"		80	90	80	102		
36"	108"	80	101	80	102		
39"		80	95	80	102		
42"		80	90	80	102		
45"		80	90	80	102		
48"		80	90	80	102		
36"		80	98	80	102		
39"		80	92	80	102		
42"		80	90	80	102		
45"	111"	80	90	80	102		
48"		80	90	80	102		
36"		80	98	80	102		
39"		80	92	80	102		
42"		80	90	80	102		
45"		80	90	80	102		
47"		80	90	80	102		



PROJECT NAME: TCW-250P LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250P.LMI.R	DRAW BY: M.G.	PRODUCT APPROVAL NO.: 17655.1
SHT. 3 OF 9	SCALE: N.T.S.	DATE: 10/27/2020



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ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901

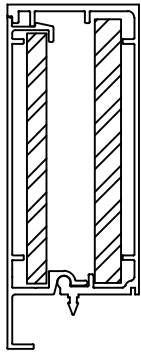


WILLIAM D. COOK
LICENSE
No. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM D. COOK P.E.
FLA P.E. #43904, FLA S.I. #2008

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5440 N.W. 33RD AVENUE SUITE 100
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TEL: (954) 772-4624
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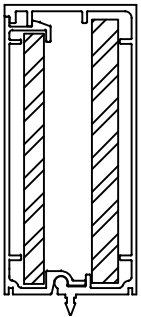
JAMB & MULLION LOAD CAPACITY – P.S.F. (REINFORCED MULLIONS)			
NOMINAL DIM'S.		INTERMEDIATE MULLION JAMB/DOOR MULLION	
WIDTH (W)	MULLION HGT.	EXT. (+)	EXT. (–)
49"	108"	80	110
55"			
61"			
67"			
73"			
74"			
79"			
45"	114"		
51"			
57"			
63"			
69"			
75"			
35"	120"		
41"			
47"			
53"			
59"			
65"			
71"			
32"	126"		
38"			
44"			
50"			
56"			
62"			
68"		80	110

JAMB & MULLION LOAD CAPACITY – P.S.F. (REINFORCED MULLIONS)			
NOMINAL DIM'S.		INTERMEDIATE MULLION JAMB/DOOR MULLION	
WIDTH (W)	MULLION HGT.	EXT. (+)	EXT. (–)
35"	132"	80	110
41"			
47"			
53"			
59"			
65"			
32"	138"		
38"			
44"			
50"			
56"			
62"			
30"	143"		
36"			
42"			
48"			
54"			
60"		80	110



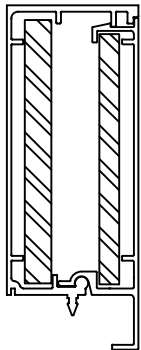
FRAME JAMB

TGF-201/110
REINFORCING: 1/2" X 5" &
3/8" X 4 3/4" STEEL BAR (A36)
ALUMINUM: Ixx = 9.33 in⁴
Sxx = 3.39 in³
STEEL:
(NOT CONVERTED) Ixx = 8.55 in⁴
Sxx = 3.49 in³



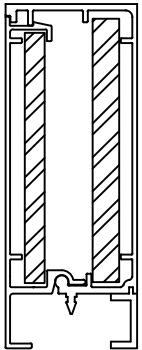
INTERMEDIATE MULLION

TGF-201/202
REINFORCING: 1/2" X 5" &
3/8" X 4 3/4" STEEL BAR (A36)
ALUMINUM: Ixx = 9.33 in⁴
Sxx = 3.39 in³
STEEL:
(NOT CONVERTED) Ixx = 8.55 in⁴
Sxx = 3.49 in³



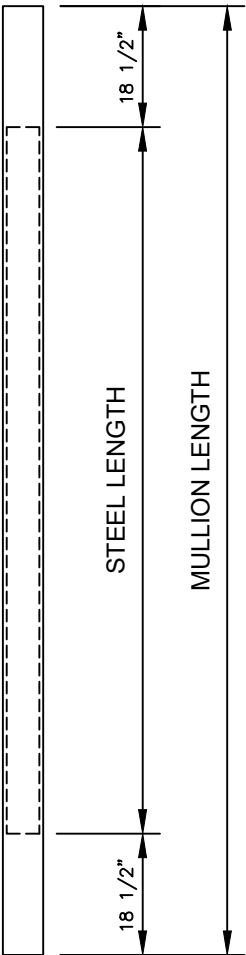
DOOR JAMB @ MULLION

TGF-201/110
REINFORCING: 1/2" X 5" &
3/8" X 4 3/4" STEEL BAR (A36)
ALUMINUM: Ixx = 9.33 in⁴
Sxx = 3.39 in³
STEEL:
(NOT CONVERTED) Ixx = 8.55 in⁴
Sxx = 3.49 in³

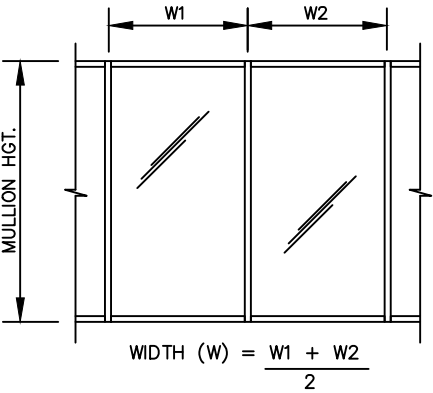
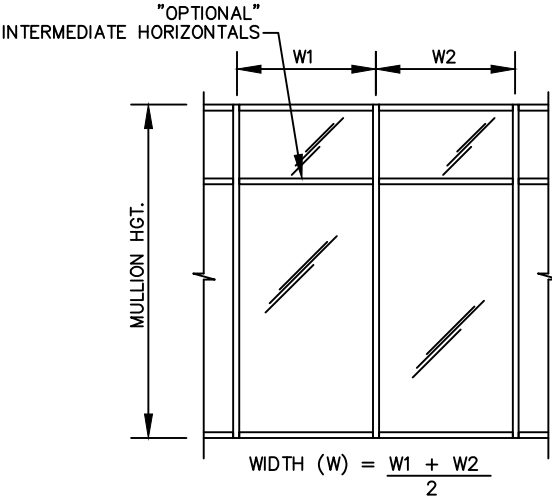


DOOR JAMB @ WALL

TGF-201/110
REINFORCING: 1/2" X 5" &
3/8" X 4 3/4" STEEL BAR (A36)
ALUMINUM: Ixx = 9.33 in⁴
Sxx = 3.39 in³
STEEL:
(NOT CONVERTED) Ixx = 8.55 in⁴
Sxx = 3.49 in³



STEEL REINFORCING DIAGRAM
STEEL LENGTH = MULLION LENGTH – 37"
CENTER REINFORCING IN SPAN



PROJECT NAME: TCW-250P LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250P.LMI.R	DRAW BY: M.G.	PRODUCT APPROVAL NO.: 17655.1
SHT. 4 OF 9	SCALE: N.T.S.	DATE: 10/27/2020

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FRAME ANCHOR LOAD CAPACITY – P.S.F. Pmax (+) & (–)				
NOMINAL DIM'S.		ANCHOR TYPES		
WIDTH (W)	MULLION HGT.	A6	B2	C2
49"	108"	110	110	110
55"		110	99	110
61"		110	90	103
67"		110	82	94
73"		105	75	86
79"		97	69	79
45"	114"	110	110	110
51"		110	102	110
57"		110	91	105
63"		110	82	94
69"		105	75	86
75"		96	69	79
35"	120"	110	110	110
41"		110	110	110
47"		110	105	110
53"		110	93	106
59"		110	83	96
65"		106	76	87
71"		97	86	79
32"	126"	110	110	110
38"		110	110	110
44"		110	107	110
50"		110	94	107
56"		110	84	96
62"		106	76	87
68"		96	69	79

FRAME ANCHOR LOAD CAPACITY – P.S.F. Pmax (+) & (–)				
NOMINAL DIM'S.		ANCHOR TYPES		
WIDTH (W)	MULLION HGT.	A6	B2	C2
35"	132"	110	110	110
41"		110	109	110
47"		110	95	110
53"		110	84	97
59"		106	76	87
65"		96	69	79
32"	138"	110	110	110
38"		110	110	110
44"		110	97	110
50"		110	86	98
56"		106	76	87
62"		96	69	79
30"	143"	110	110	110
36"		110	110	110
42"		110	98	110
48"		110	86	99
54"		106	77	88
60"		95	69	79

ANCHOR TYPE SCHEDULE	
SUBSTRATE	ANCHOR TYPES
METAL (1/8" THICK)	TYPE 'A' – #14 S.M.S. OR 1/4" SELF DRILLING SCREWS INTO METAL STRUCTURES (A36 STEEL OR 6061–T6)
CONCRETE (3000 PSI MIN) "SHEAR CLIP"	TYPE 'B' – 3/8" POWERS WEDGE BOLTS DIRECTLY INTO CONC. 3 1/2" MIN. EMBED MIN. EDGE DISTANCE: 4" MIN. C/C SPACING: 4 1/2" NOTE: FOR 'F' CLIP AT JAMB ONLY USE 2 1/2" C/C SPACING
CONCRETE (3000 PSI MIN) "STRAP ANCHOR"	TYPE 'C' – 3/8" POWERS WEDGE BOLTS DIRECTLY INTO CONC. 3" MIN. EMBED MIN. EDGE DISTANCE: 3" MIN. C/C SPACING: 4 1/2"

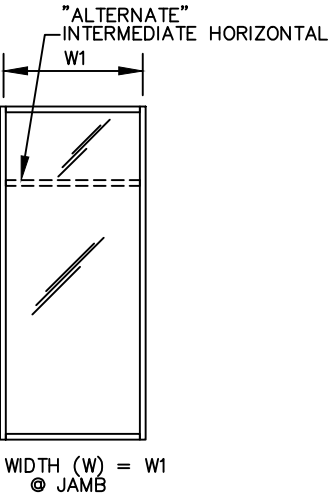
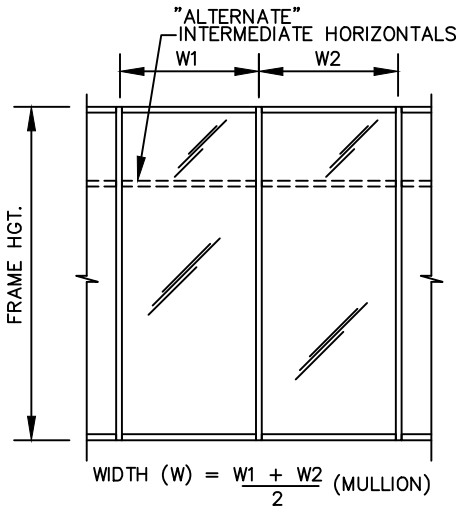
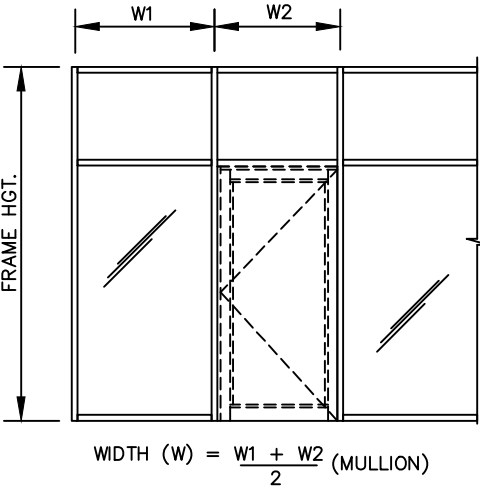
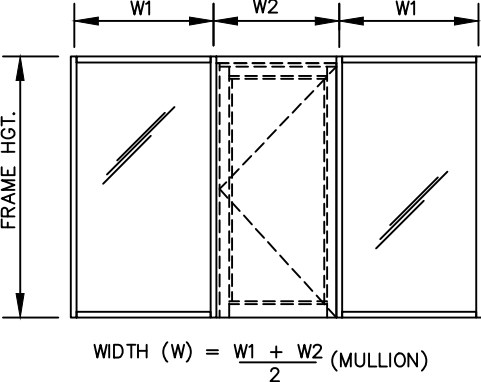
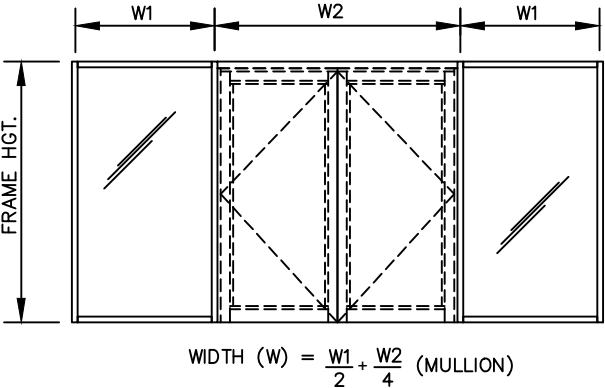
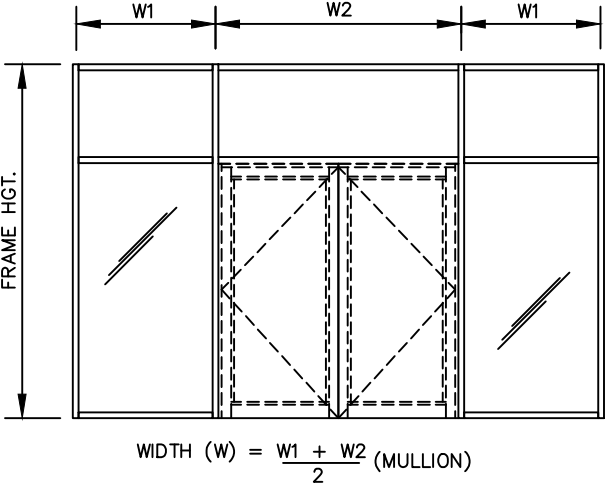
ANCHORAGE NOTES: SEE ABOVE FOR TYPES/DESCRIPTIONS

A6 = (6) ANCHORS TYPE 'A' AT EACH MULLION INTO TGF–14 "T" ANCHOR CLIP. (4) AT EA. JAMB INTO TGF–13 "F" ANCHOR CLIP

B2 = (2) ANCHORS TYPE 'B' AT EACH MULLION INTO TGF–14 "T" ANCHOR CLIP. (2) AT EA. JAMB INTO TGF–13 "F" ANCHOR CLIP

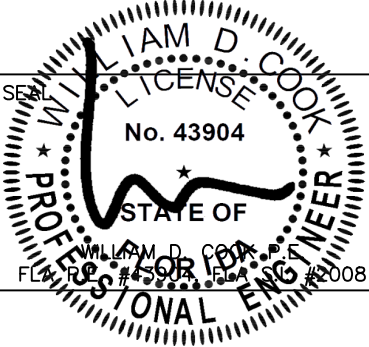
ALTERNATE ANCHORAGE:

C2 = (2) STRAP ANCHORS PER MULLION END (1. EA. SIDE OF MULLION) WITH (1) ANCHOR PER STRAP.
(1) STRAP ANCHOR PER JAMB END

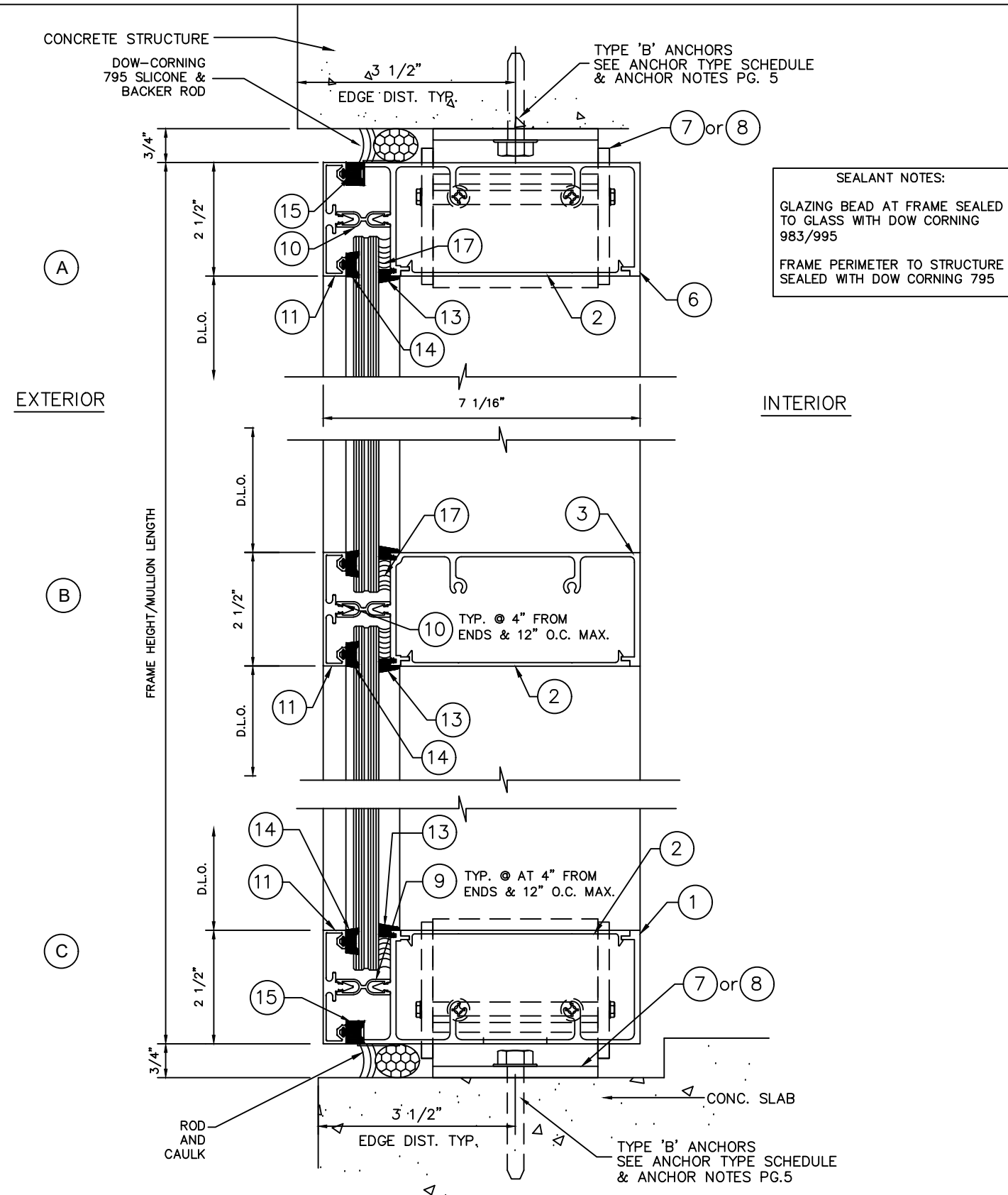


PROJECT NAME: TCW-250P LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250P.LMI.R	DRAW BY: M.G.	PRODUCT APPROVAL NO.: 17655.1
SHT. 5 OF 9	SCALE: N.T.S.	DATE: 10/27/2020

ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
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ENGINEERING, INC.
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5440 N.W. 33RD AVENUE SUITE 100
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FAX: (954) 772-4634

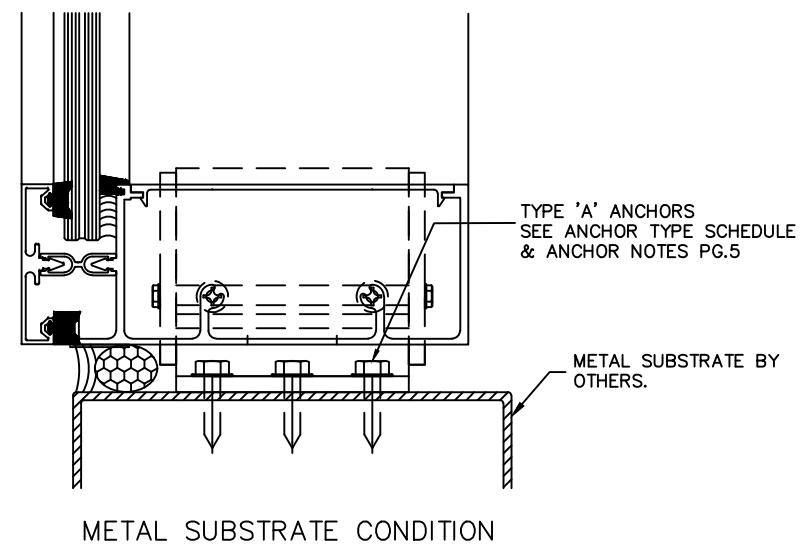
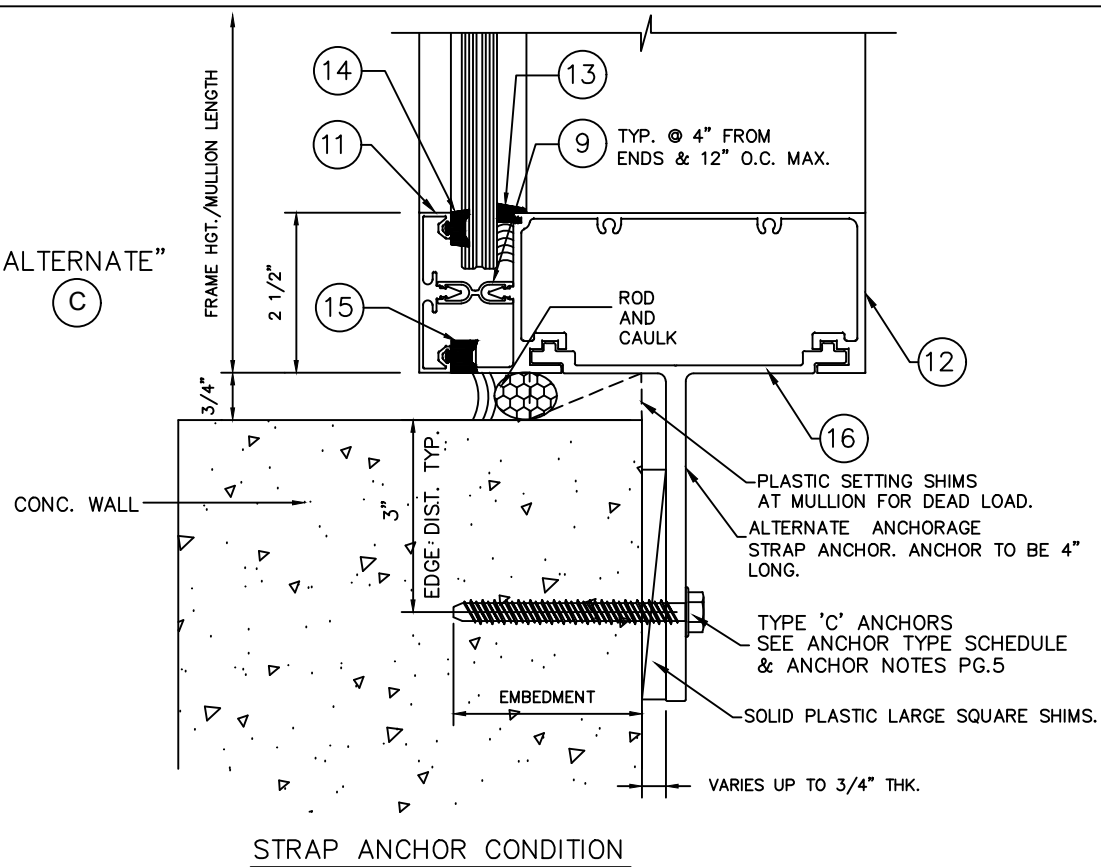


SEALANT NOTES:

GLAZING BEAD AT FRAME SEALED
TO GLASS WITH DOW CORNING
983/995

FRAME PERIMETER TO STRUCTURE
SEALED WITH DOW CORNING 795

"ALTERNATE"
(C)



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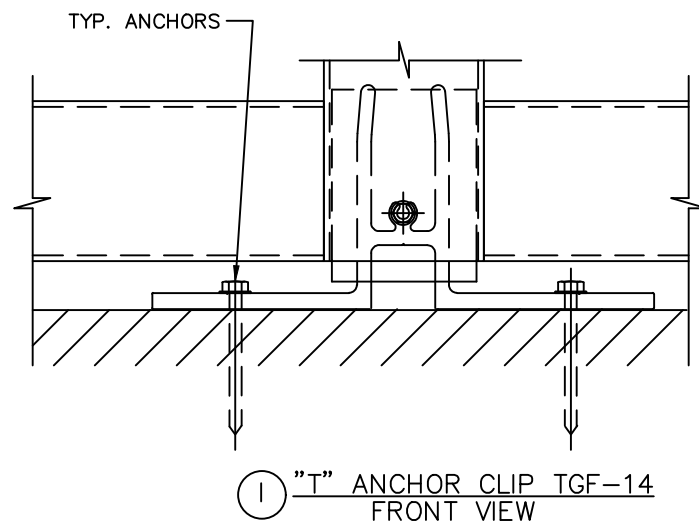
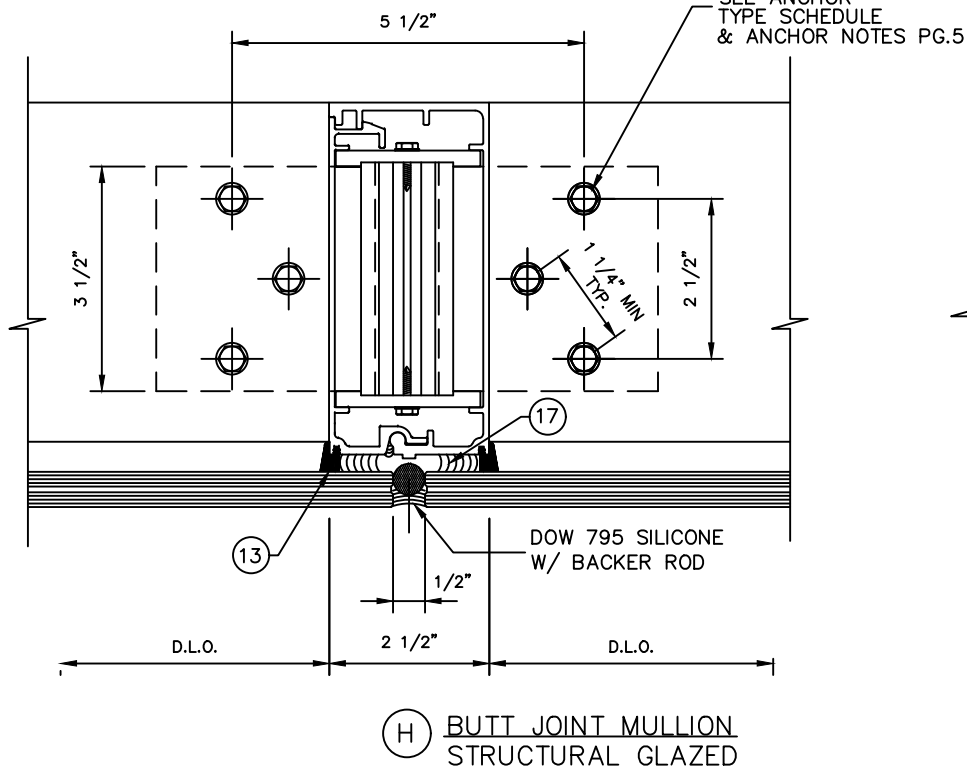
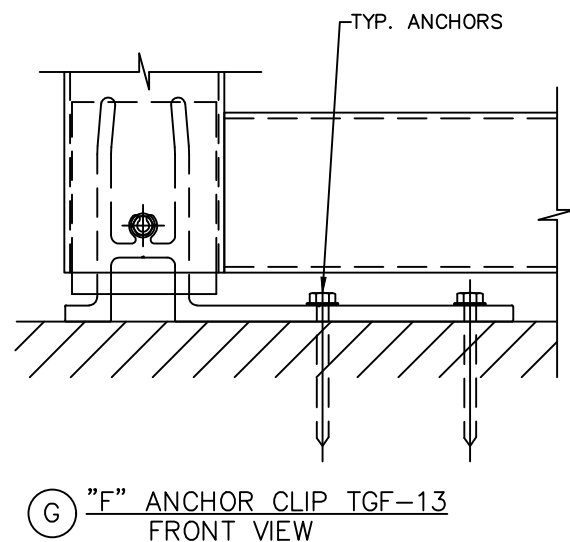
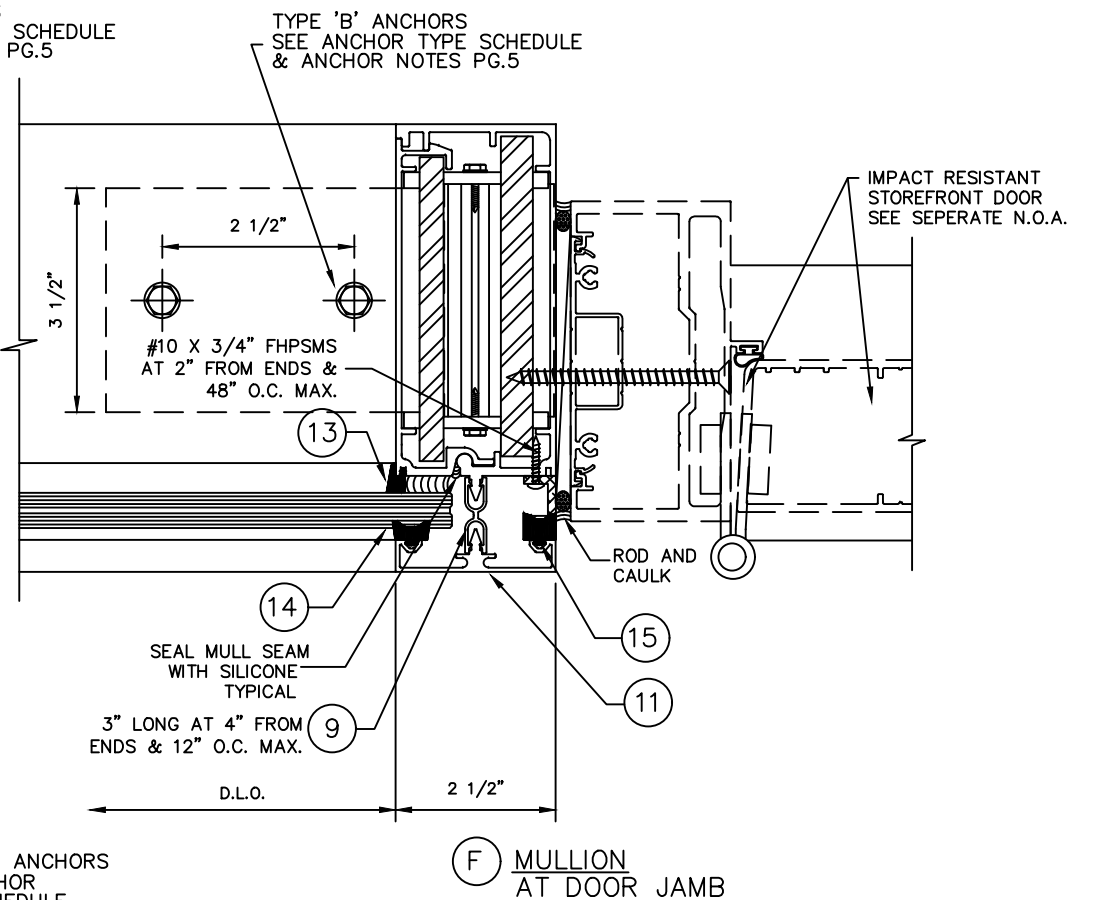
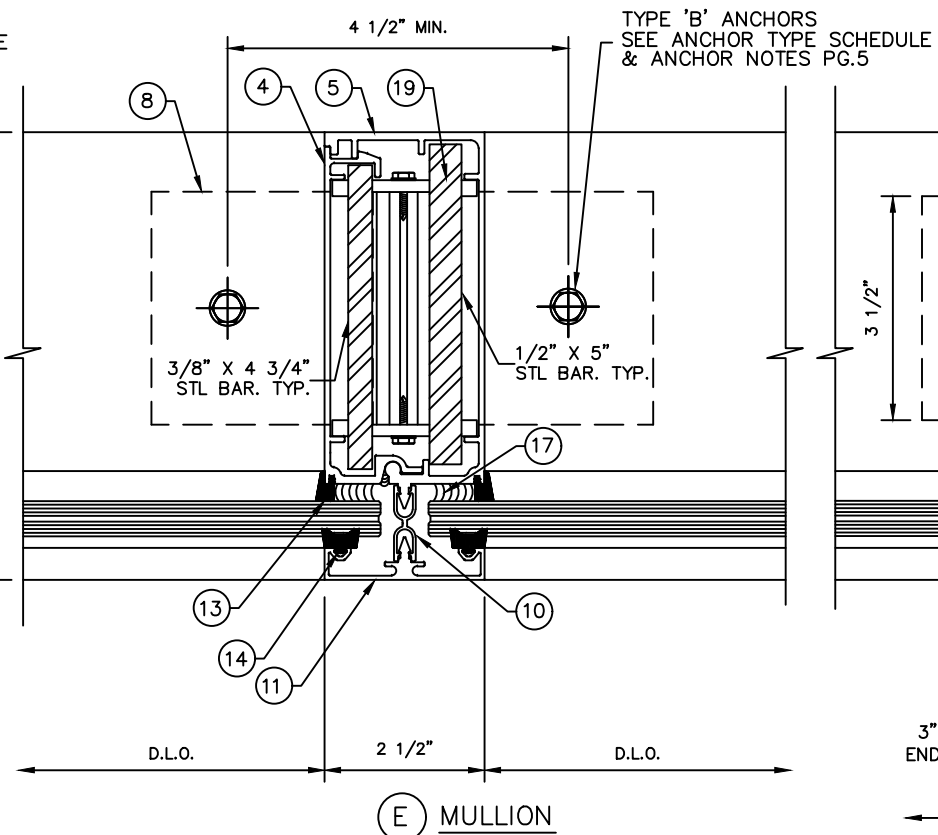
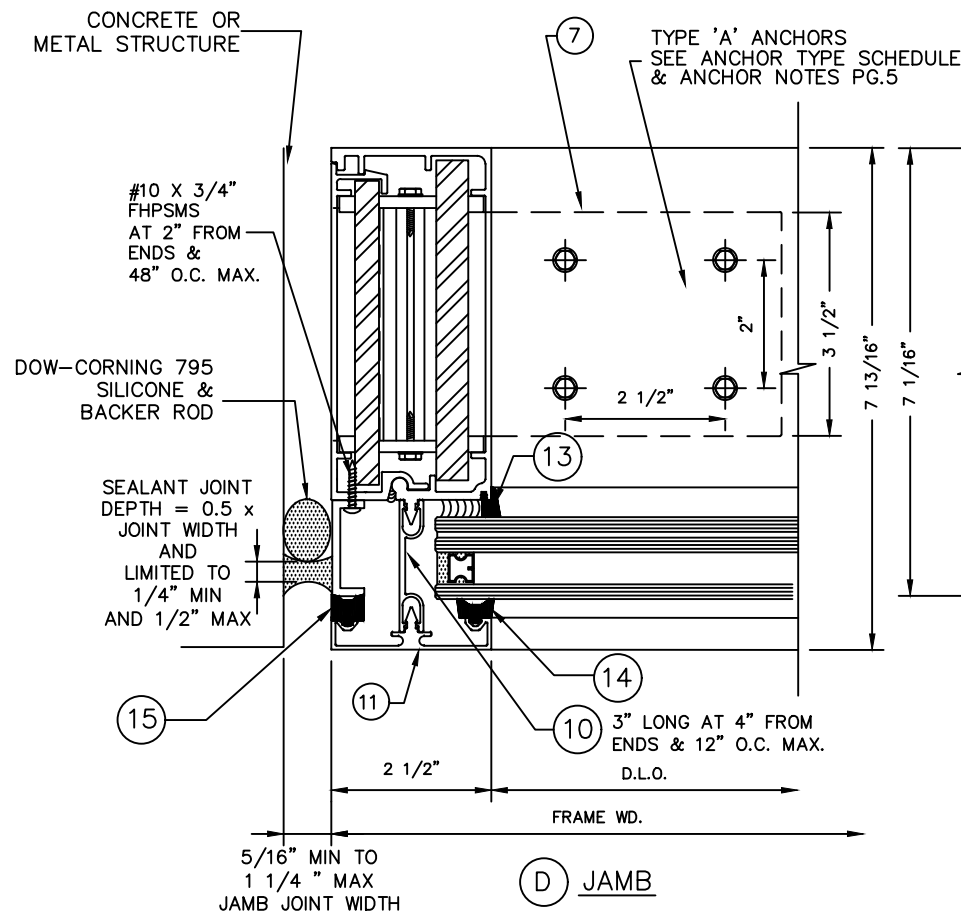
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WILLIAM D. COOK
LICENSE
No. 43904
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

WILLIAM D. COOK P.E.
FLA P.E. #43904, FLA S.I. #2008

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JAMB SEALANT NOTES:

PERIMETER SEALANT OPTIONS:
DOW-CORNING 795 SILICONE

ALTERNATE SEALANTS AND JAMB GAPS:
TO BE APPROVED BY DESIGN
PROFESSIONAL OF RECORD AND
SEALANT MANUFACTURER

PROJECT NAME:

TCW-250P LMI (W/REINFORCING)

DRAWING NUMBER:

TCW-250P.LMI.R

DRAW BY:

M.G.

PRODUCT APPROVAL NO.:

17655.1

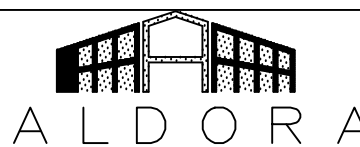
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N.T.S.

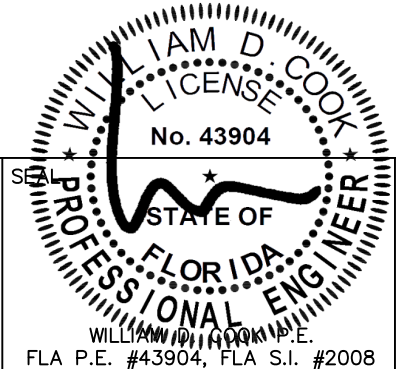
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10/27/2020

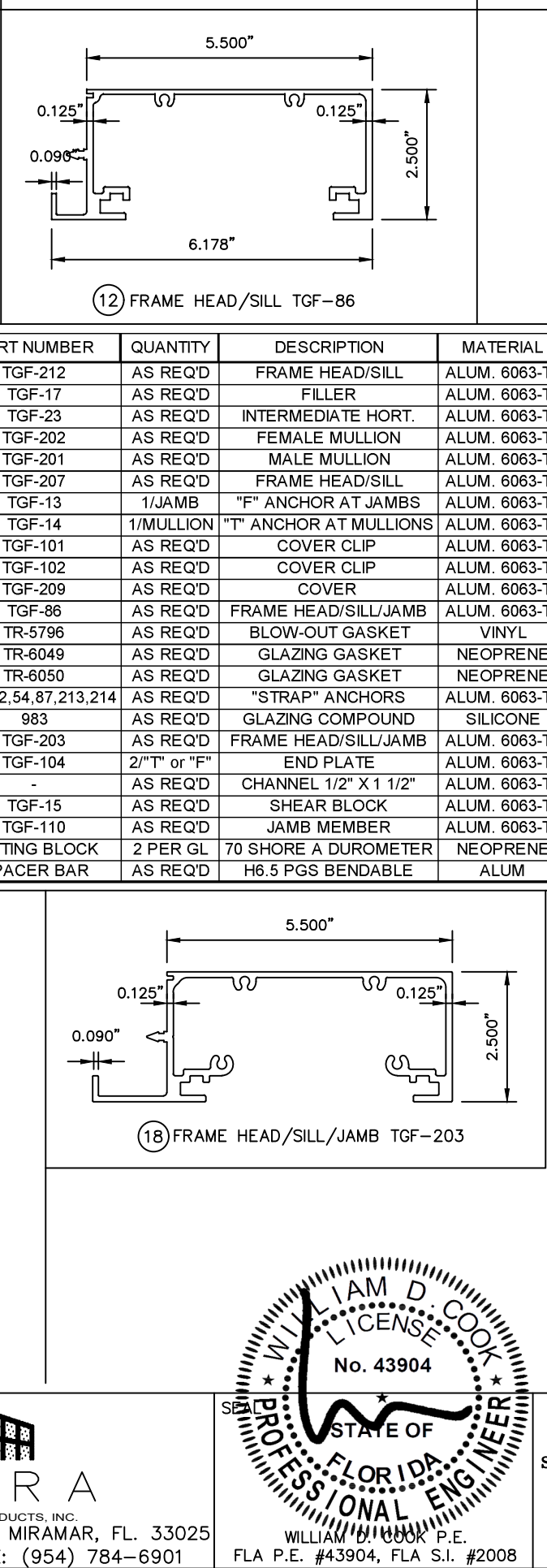
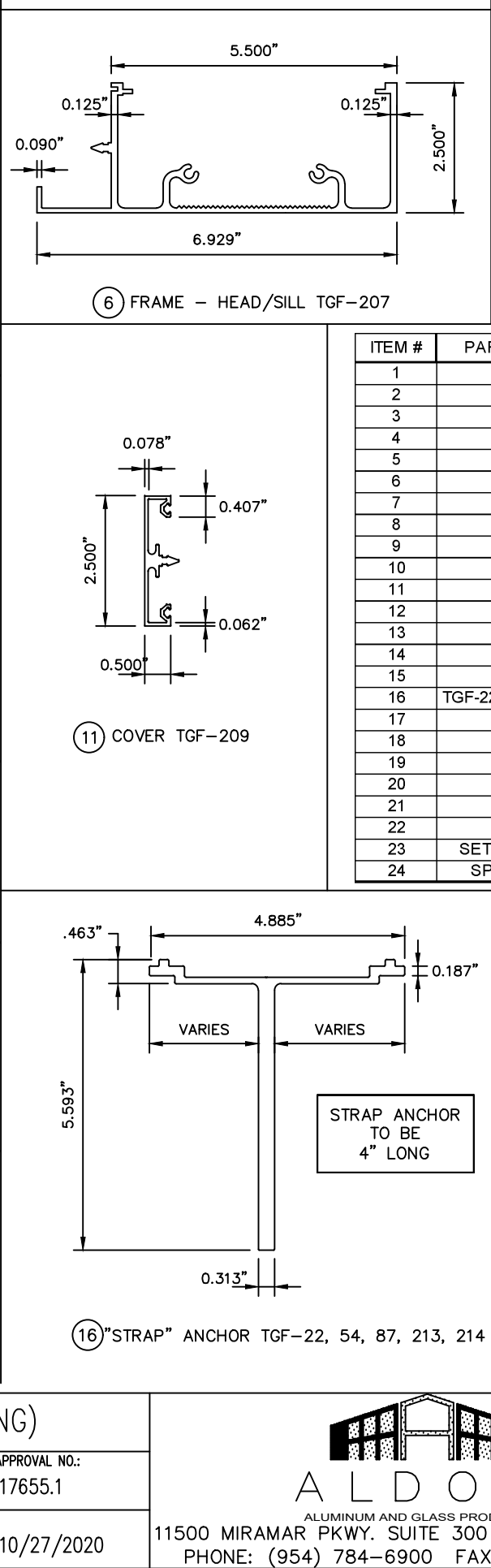
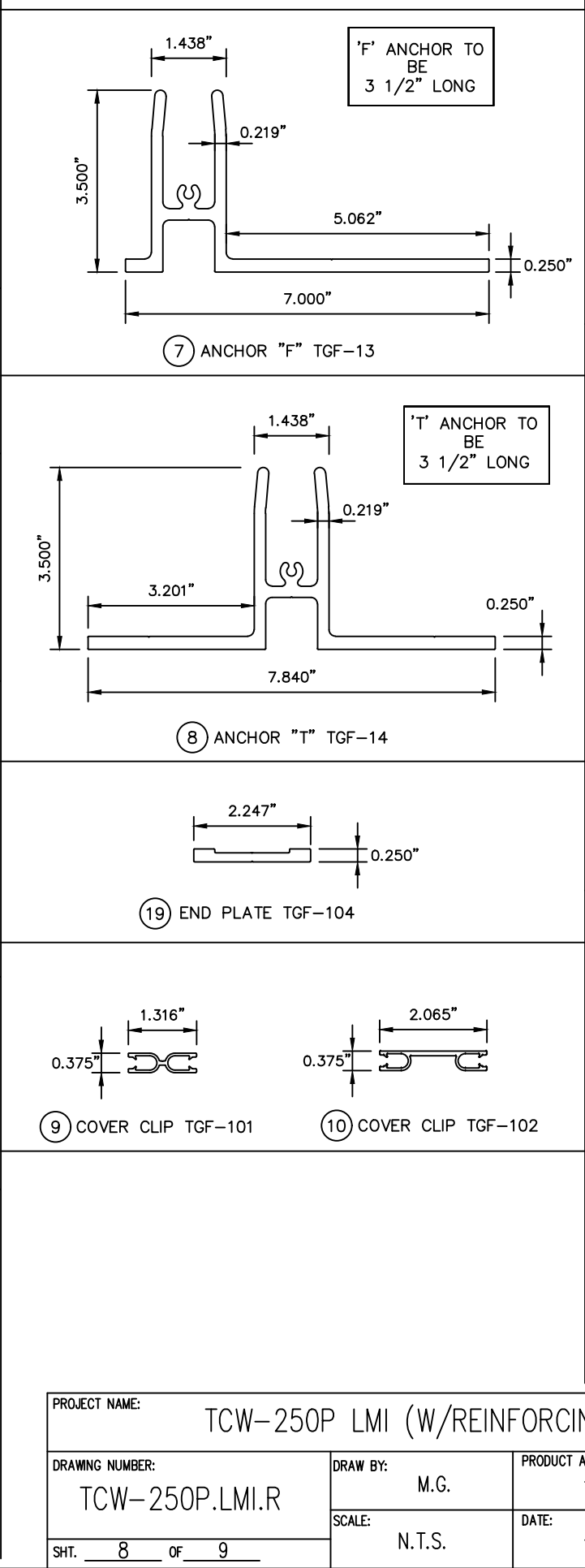
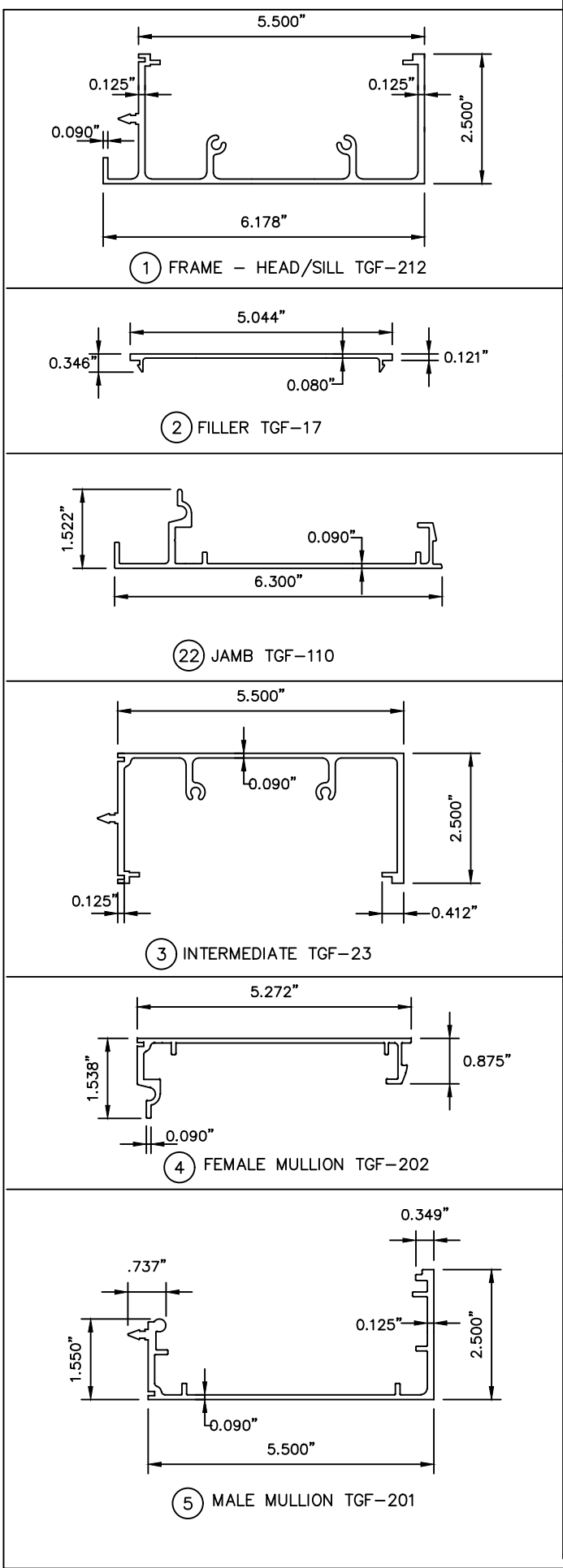
SHT. 7 OF 9



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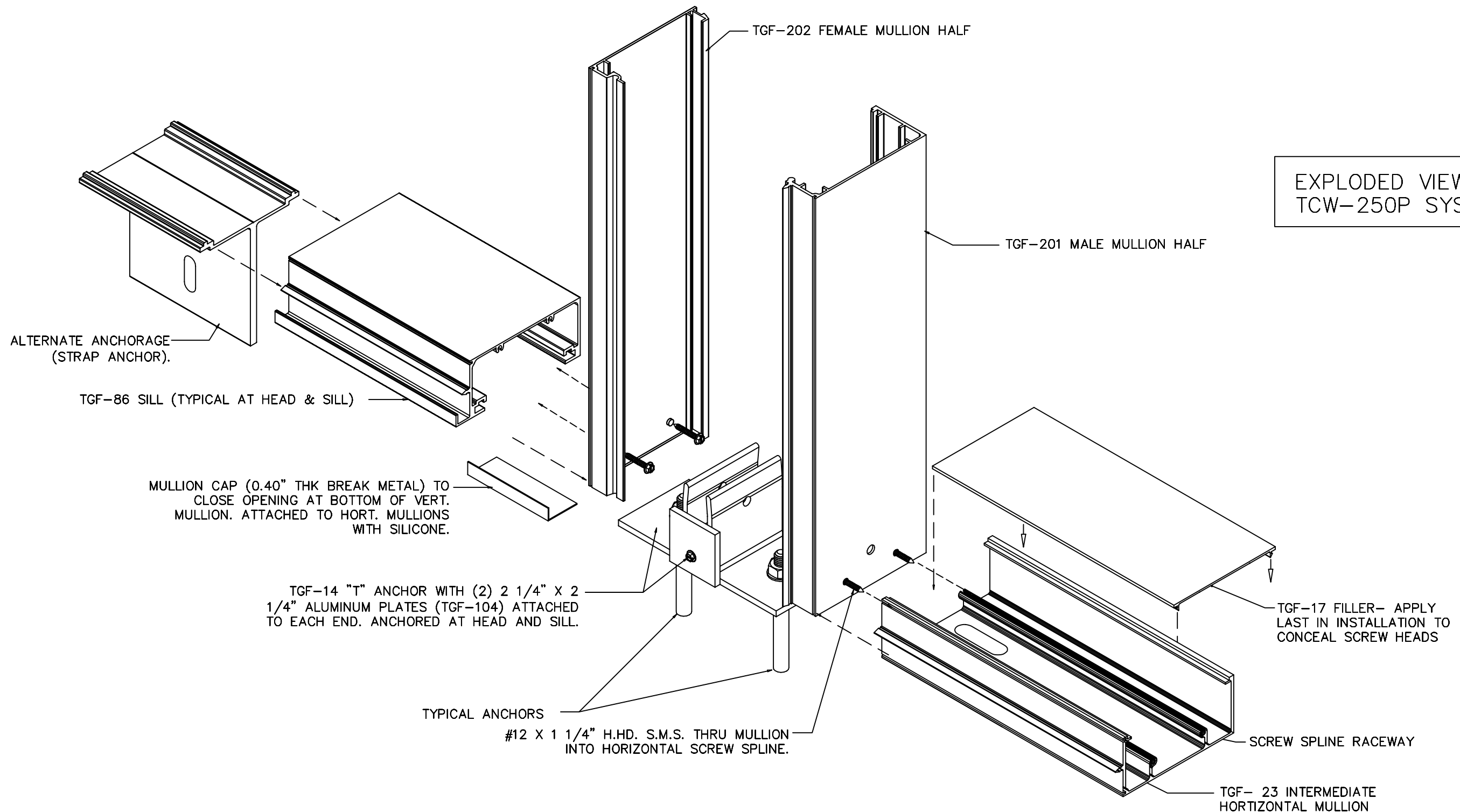
ITEM #	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	TGF-212	AS REQ'D	FRAME HEAD/SILL	ALUM. 6063-T5	TRAINOR GLASS CO.
2	TGF-17	AS REQ'D	FILLER	ALUM. 6063-T5	TRAINOR GLASS CO.
3	TGF-23	AS REQ'D	INTERMEDIATE HORT.	ALUM. 6063-T5	TRAINOR GLASS CO.
4	TGF-202	AS REQ'D	FEMALE MULLION	ALUM. 6063-T6	TRAINOR GLASS CO.
5	TGF-201	AS REQ'D	MALE MULLION	ALUM. 6063-T6	TRAINOR GLASS CO.
6	TGF-207	AS REQ'D	FRAME HEAD/SILL	ALUM. 6063-T5	TRAINOR GLASS CO.
7	TGF-13	1/JAMB	"F" ANCHOR AT JAMBS	ALUM. 6063-T5	TRAINOR GLASS CO.
8	TGF-14	1/MULLION	"T" ANCHOR AT MULLIONS	ALUM. 6063-T5	TRAINOR GLASS CO.
9	TGF-101	AS REQ'D	COVER CLIP	ALUM. 6063-T5	TRAINOR GLASS CO.
10	TGF-102	AS REQ'D	COVER CLIP	ALUM. 6063-T5	TRAINOR GLASS CO.
11	TGF-209	AS REQ'D	COVER	ALUM. 6063-T5	TRAINOR GLASS CO.
12	TGF-86	AS REQ'D	FRAME HEAD/SILL/JAMB	ALUM. 6063-T6	TRAINOR GLASS CO.
13	TR-5796	AS REQ'D	BLOW-OUT GASKET	VINYL	TREMCO- SILICONE COMPAT.
14	TR-6049	AS REQ'D	GLAZING GASKET	NEOPRENE	TREMCO
15	TR-6050	AS REQ'D	GLAZING GASKET	NEOPRENE	TREMCO
16	TGF-22,54,87,213,214	AS REQ'D	"STRAP" ANCHORS	ALUM. 6063-T5	TRAINOR GLASS CO.
17	983	AS REQ'D	GLAZING COMPOUND	SILICONE	DOW CORNING
18	TGF-203	AS REQ'D	FRAME HEAD/SILL/JAMB	ALUM. 6063-T6	TRAINOR GLASS CO.
19	TGF-104	2/"T" or "F"	END PLATE	ALUM. 6063-T5	TRAINOR GLASS CO.
20	-	AS REQ'D	CHANNEL 1/2" X 1 1/2"	ALUM. 6063-T5	TRAINOR GLASS CO. 1/8" THK
21	TGF-15	AS REQ'D	SHEAR BLOCK	ALUM. 6063-T5	TRAINOR GLASS CO.
22	TGF-110	AS REQ'D	JAMB MEMBER	ALUM. 6063-T6	TRAINOR GLASS CO.
23	SETTING BLOCK	2 PER GL	70 SHORE A DUROMETER	NEOPRENE	NEOPRENE OR SILICONE
24	SPACER BAR	AS REQ'D	H6.5 PGS BENDABLE	ALUM	PROFILGLASS

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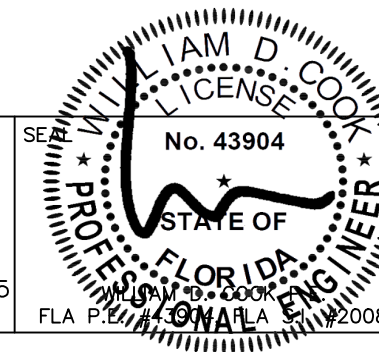
WILLIAM D. COOK
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