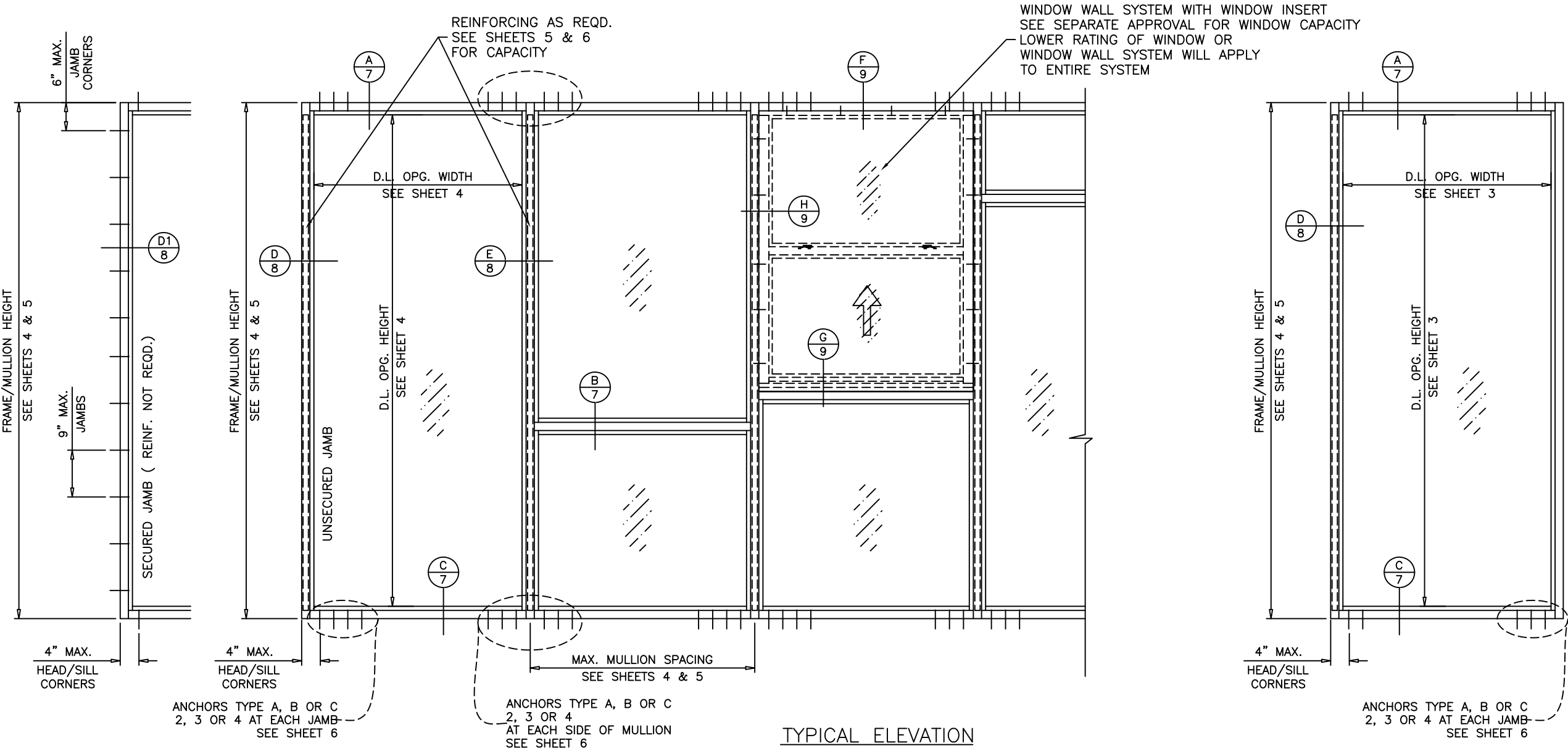




SERIES 400 ALUMINUM WINDOW WALL SYSTEM

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT AS LISTED, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF’S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON–METALLIC AND NON–COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL. DESIGN LOADS SHOWN ARE BASED ON ‘ALLOWABLE STRESS DESIGN (ASD)’.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1
- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2
- CHECK GLASS CAPACITY TABLE ON SHEET 3 FOR GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) AND PRESSURE CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 3
- CHECK WINDOW WALL SYSTEM CAPACITY FOR DESIRED HEIGHT AND MULLION SPACING USING CHARTS ON SHEETS 4 & 5. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4
- USING CHARTS ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5
- VERIFY UNANCHORED JAMBS, IF USED AS PER SHEETS 4, 5 AND 8.
- STEP 6
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

THE SYSTEM IS RATED FOR SMALL MISSILE IMPACT. FBC APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS ARE NOT REQUIRED FOR INSTALLATION ABOVE 30 FT. OF GRADE.

SMALL MISSILE IMPACT



ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

6/5/2022

Date

By

HONG C.

Rev.

A

WW400FPA - SMI

DWG

No.

1 OF 11

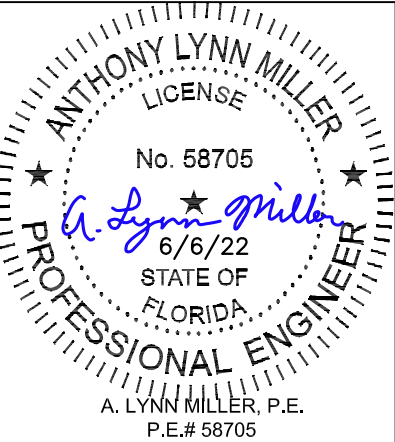
Sheet

SERIES 400

Desc.

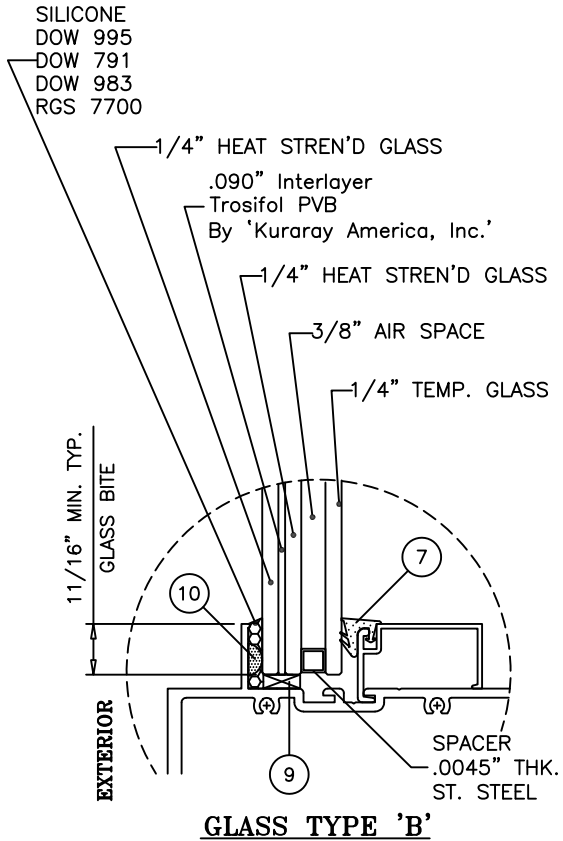
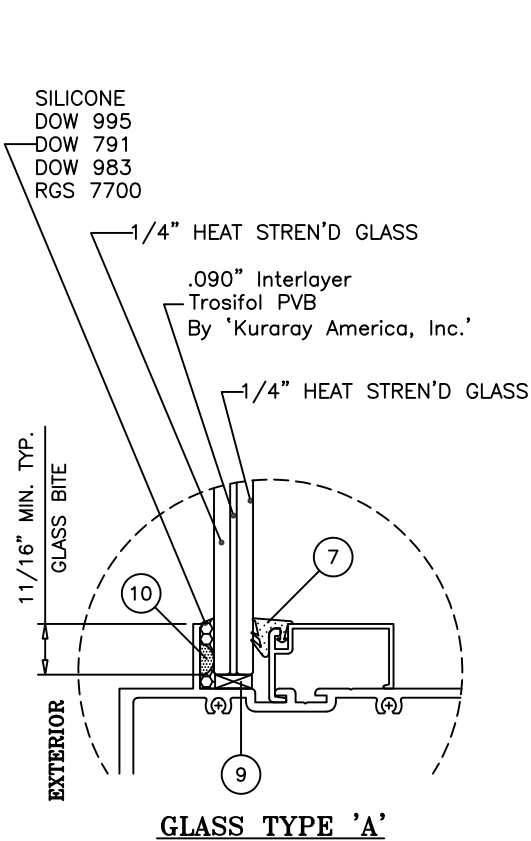
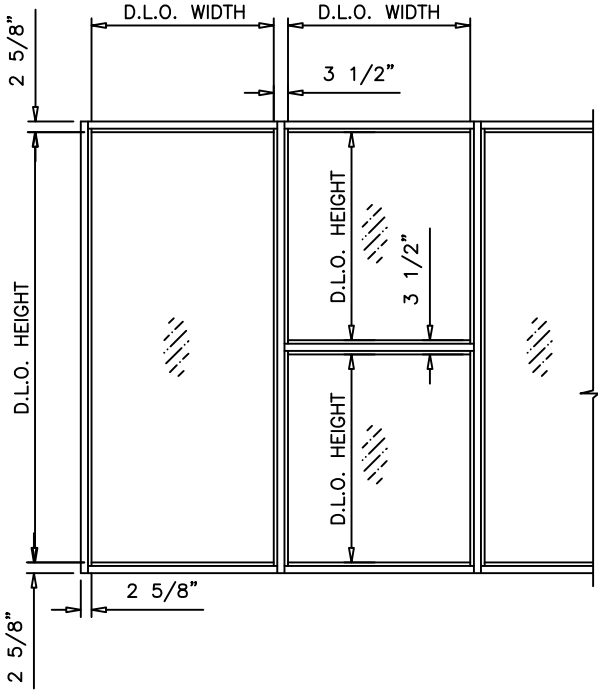
GENERAL INFORMATION & ELEVATION

Title



GLASS LOAD CAPACITY – PSF			
NOMINAL DIMS.		GLASS TYPES 'A' & 'B'	
D.L.O. WIDTH	D.L.O. HEIGHT	POS. (+)	NEG. (-)
26–1/2"	78–3/4"	90.0	130.0
32–1/2"		90.0	130.0
38–1/2"		90.0	130.0
44–1/2"		90.0	130.0
50–1/2"		90.0	130.0
56–1/2"		90.0	130.0
26–1/2"	84–3/4"	90.0	130.0
32–1/2"		90.0	130.0
38–1/2"		90.0	130.0
44–1/2"		90.0	130.0
50–1/2"		90.0	130.0
56–1/2"		90.0	130.0
26–1/2"	90–3/4"	90.0	130.0
32–1/2"		90.0	130.0
38–1/2"		90.0	130.0
44–1/2"		90.0	130.0
50"		90.0	130.0
50–1/2"		90.0	130.0
56–1/2"		90.0	130.0
26–1/2"	96–3/4"	90.0	130.0
32–1/2"		90.0	130.0
38–1/2"		90.0	130.0
44–1/2"		90.0	130.0
47"		90.0	130.0
52–1/2"		90.0	130.0
26–1/2"	102–3/4"	90.0	130.0
32–1/2"		90.0	130.0
38–1/2"		90.0	130.0
44"		90.0	130.0
44–1/2"		90.0	130.0
49"		90.0	130.0
26–1/2"	108–3/4"	90.0	130.0
32–1/2"		90.0	130.0
38–1/2"		90.0	130.0
41"		90.0	130.0
44–1/2"		90.0	130.0
47"		90.0	130.0
26–1/2"	114–3/4"	90.0	130.0
32–1/2"		90.0	130.0
38–1/2"		90.0	130.0
39"		90.0	130.0
44–1/2"		90.0	130.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS).

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

ECO WINDOW SYSTEMS, LLC.
8602 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902

SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)

6/5/2022

Date

HONG C.

By

Drawn

Rev.

A

WW400FPA - SMI

DWG

No.

3 OF 11

Sheet

SERIES 400

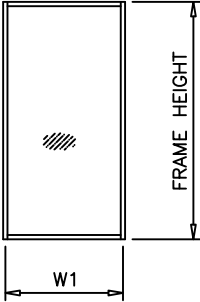
GLASS DETAILS & CHART

Desc.

Title

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/6/22
STATE OF
FLORIDA
A. LYNN MILLER, P.E.
P.E.# 58705

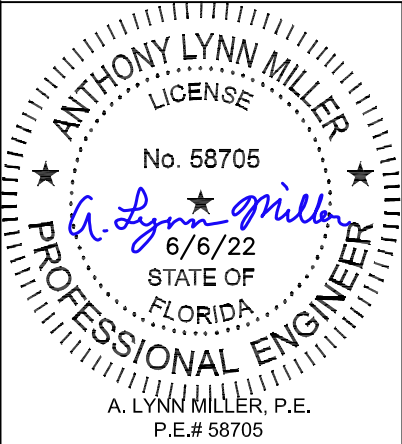
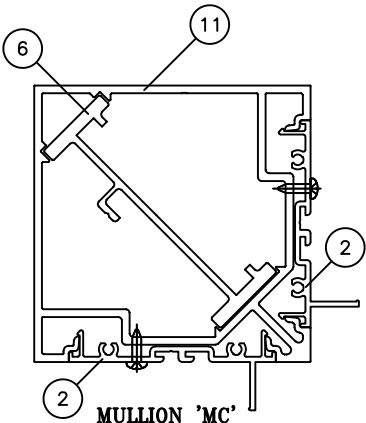
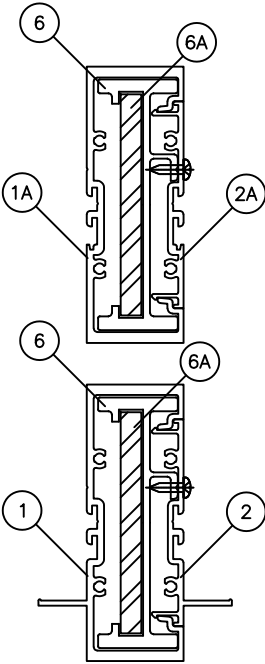
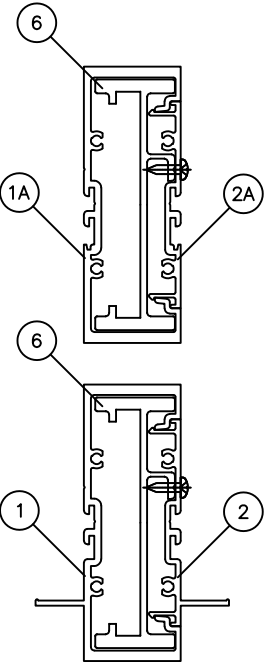
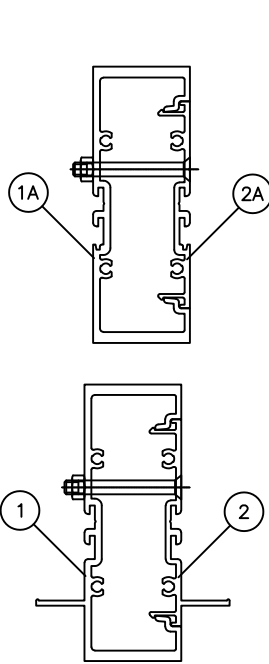
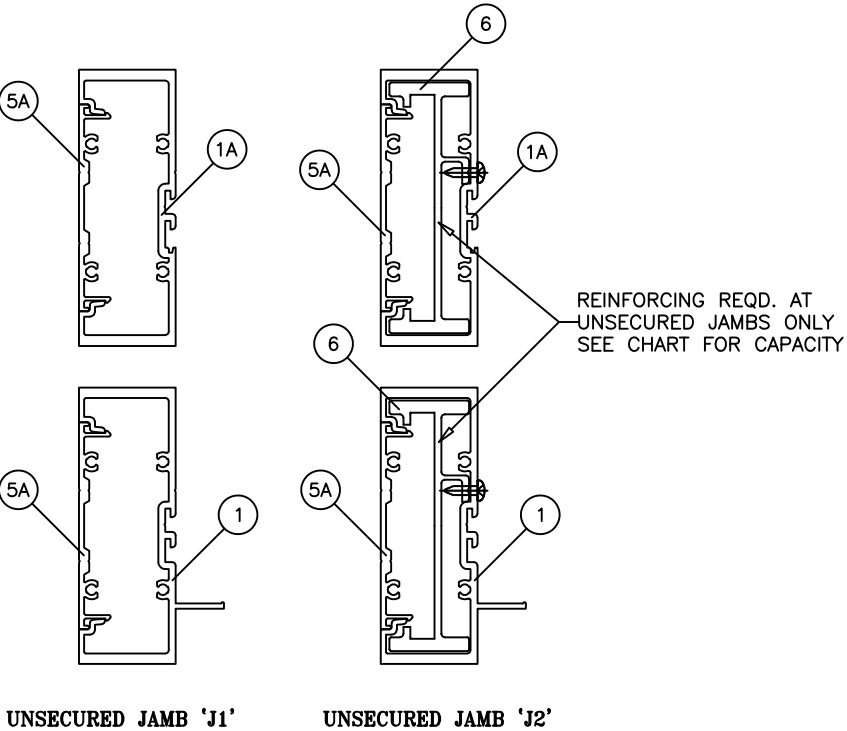
JAMB & MULLION LOAD CAPACITY – PSF									
JAMBS & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'		MULL 'MC'	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
30"	84"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	125.5	90.0	130.0	90.0	130.0	90.0	120.0
54"		90.0	115.3	90.0	130.0	90.0	130.0	90.0	120.0
60"		90.0	107.9	90.0	130.0	90.0	130.0	90.0	120.0
30"	90"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	119.2	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	106.9	90.0	130.0	90.0	130.0	90.0	120.0
54"		90.0	97.7	90.0	130.0	90.0	130.0	90.0	120.0
60"		90.0	90.9	90.0	130.0	90.0	130.0	90.0	120.0
30"	96"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	118.2	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	103.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	92.1	90.0	130.0	90.0	130.0	90.0	120.0
54"		83.9	83.9	90.0	129.2	90.0	130.0	90.0	120.0
60"		77.7	77.7	90.0	119.6	90.0	130.0	90.0	120.0
30"	102"	90.0	122.6	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	103.4	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	90.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		80.2	80.2	90.0	123.3	90.0	130.0	90.0	120.0
54"		72.9	72.9	90.0	111.9	90.0	130.0	90.0	120.0
56"		70.8	70.8	90.0	108.8	90.0	130.0	90.0	120.0
30"	108"	90.0	108.3	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	91.3	90.0	130.0	90.0	130.0	90.0	120.0
42"		79.3	79.3	90.0	121.7	90.0	130.0	90.0	120.0
48"		70.5	70.5	90.0	108.2	90.0	130.0	90.0	120.0
53"		64.8	64.8	90.0	99.5	90.0	125.3	90.0	120.0
30"	114"	90.0	96.4	90.0	130.0	90.0	130.0	90.0	120.0
36"		81.1	81.1	90.0	124.2	90.0	130.0	90.0	120.0
42"		70.4	70.4	90.0	107.7	90.0	130.0	90.0	120.0
48"		62.4	62.4	90.0	95.6	90.0	121.4	90.0	120.0
50"		60.3	60.3	90.0	92.3	90.0	117.2	90.0	120.0
30"	120"	82.4	82.4	90.0	130.0	90.0	130.0	90.0	120.0
36"		69.5	69.5	90.0	110.9	90.0	130.0	90.0	120.0
42"		60.3	60.3	90.0	96.0	90.0	122.9	90.0	120.0
48"		53.6	53.6	85.1	85.1	90.0	108.9	90.0	120.0



WIDTH (W) = W1
AT FRAME JAMB

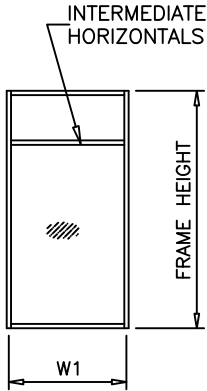
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AT FRAME MULLION



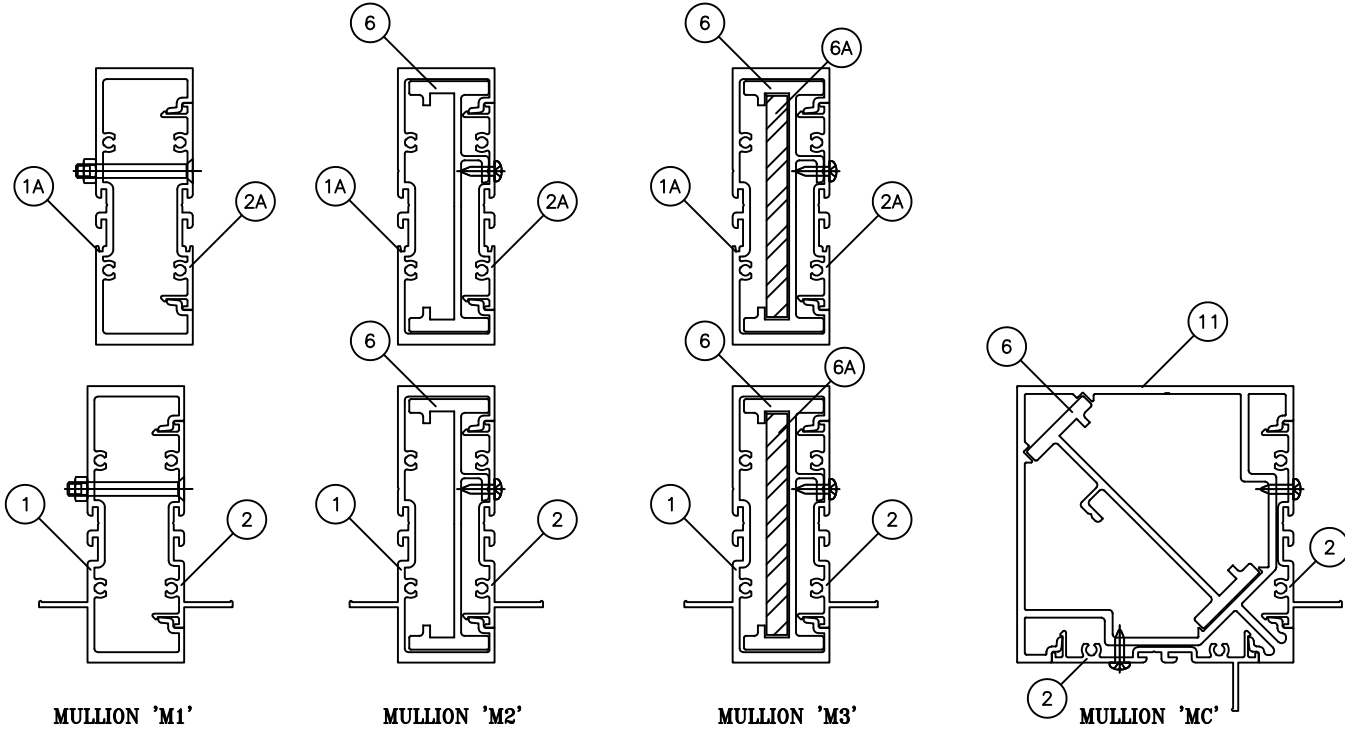
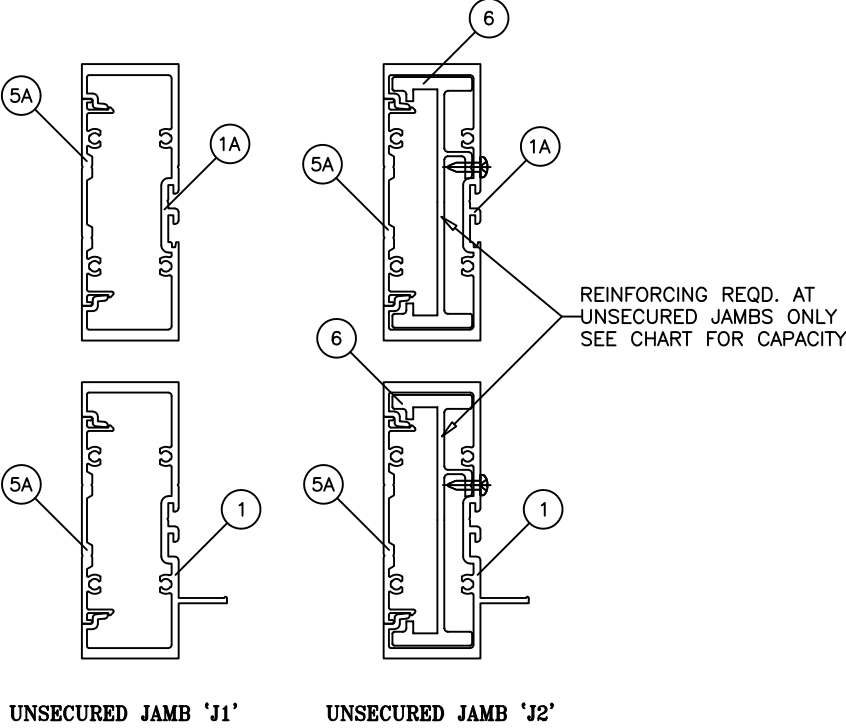
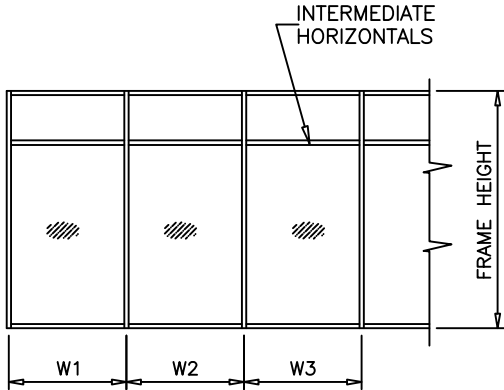
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		6/5/2022		A	
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		HONG C.		WW400FPA - SMI		Rev.	
SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)		By		Date		Date	
JAMB AND MULLION CHART		DWC		4 OF 11		A	
SERIES 400		Sheet		Title		Rev.	

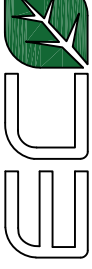
JAMB & MULLION LOAD CAPACITY – PSF									
JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'		MULL 'MC'	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
30"	84"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	128.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	112.1	90.0	130.0	90.0	130.0	90.0	120.0
54"		90.0	99.6	90.0	130.0	90.0	130.0	90.0	120.0
60"		89.7	89.7	90.0	130.0	90.0	130.0	90.0	120.0
30"	90"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	129.3	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	110.8	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	97.0	90.0	130.0	90.0	130.0	90.0	120.0
54"		86.2	86.2	90.0	130.0	90.0	130.0	90.0	120.0
60"		77.6	77.6	90.0	119.6	90.0	130.0	90.0	120.0
30"	96"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	112.8	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	96.7	90.0	130.0	90.0	130.0	90.0	120.0
48"		84.6	84.6	90.0	130.0	90.0	130.0	90.0	120.0
54"		75.2	75.2	90.0	115.8	90.0	130.0	90.0	120.0
60"		67.7	67.7	90.0	104.2	90.0	129.1	90.0	120.0
30"	102"	90.0	119.2	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	99.3	90.0	130.0	90.0	130.0	90.0	120.0
42"		85.1	85.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		74.5	74.5	90.0	114.4	90.0	130.0	90.0	120.0
54"		66.2	66.2	90.0	101.7	90.0	127.1	90.0	120.0
56"		63.8	63.8	90.0	98.1	90.0	122.5	90.0	120.0
30"	108"	90.0	105.6	90.0	130.0	90.0	130.0	90.0	120.0
36"		88.0	88.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		75.4	75.4	90.0	115.7	90.0	130.0	90.0	120.0
48"		66.0	66.0	90.0	101.2	90.0	127.5	90.0	120.0
53"		59.8	59.8	90.0	91.7	90.0	115.5	90.0	120.0
30"	114"	90.0	94.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		78.3	78.3	90.0	120.2	90.0	130.0	90.0	120.0
42"		67.1	67.1	90.0	103.0	90.0	130.0	90.0	120.0
48"		58.7	58.7	90.0	90.1	90.0	114.4	90.0	120.0
50"		56.4	56.4	86.5	86.5	90.0	109.8	90.0	120.0
30"	120"	80.6	80.6	90.0	129.1	90.0	130.0	90.0	120.0
36"		67.1	67.1	90.0	107.6	90.0	130.0	90.0	120.0
42"		57.5	57.5	90.0	92.2	90.0	118.0	90.0	120.0
48"		50.4	50.4	80.7	80.7	90.0	103.3	90.0	120.0

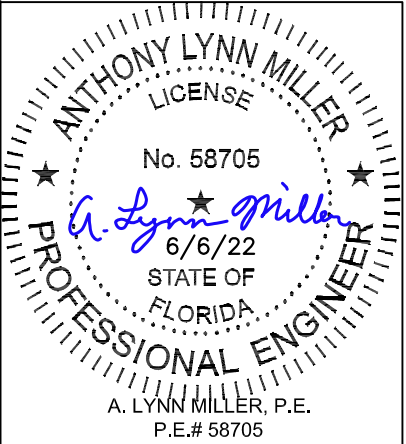


WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

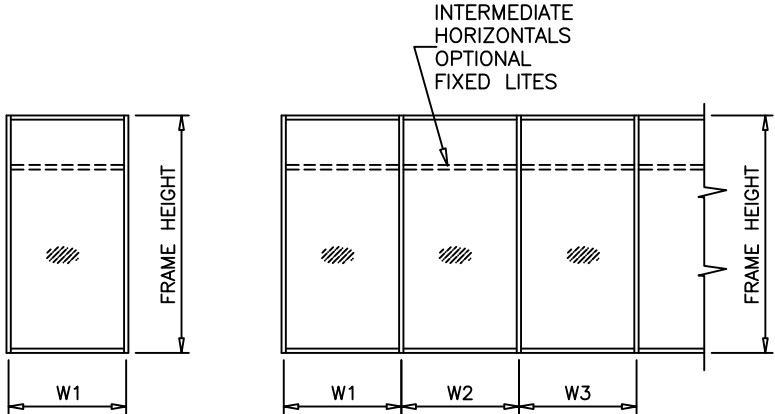


 ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600				
		REGISTRATION #29296				
Title	SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)			Date	6/5/2022	
Series Desc.		JAMB AND MULLION CHART CONT.		Drawn By	HONG C.	
Series	SERIES 400	Sheet	5 OF 11	DWG No.	WW400FPA - SMI	
					Rev.	A



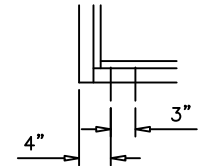
ANCHOR LOAD CAPACITY – PSF POS. (+) & NEG. (–)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3	B4/C4
30"	72"	130.0	130.0	130.0	130.0	130.0	130.0
36"		119.6	130.0	130.0	130.0	130.0	130.0
42"		102.5	130.0	130.0	130.0	130.0	130.0
48"		89.7	130.0	130.0	114.7	130.0	130.0
53"		81.2	121.8	130.0	103.8	130.0	130.0
54"		79.7	119.6	130.0	101.9	130.0	130.0
56"		76.9	115.3	130.0	98.3	130.0	130.0
60"		71.7	107.6	130.0	91.7	130.0	130.0
30"	78"	130.0	130.0	130.0	130.0	130.0	130.0
36"		110.4	130.0	130.0	130.0	130.0	130.0
42"		94.6	130.0	130.0	121.0	130.0	130.0
48"		82.8	124.2	130.0	105.8	130.0	130.0
53"		75.0	112.4	130.0	95.9	130.0	130.0
54"		73.6	110.4	130.0	94.1	130.0	130.0
56"		70.9	106.4	130.0	90.7	130.0	130.0
60"		66.2	99.3	130.0	84.7	127.0	130.0
30"	84"	123.0	130.0	130.0	130.0	130.0	130.0
36"		102.5	130.0	130.0	130.0	130.0	130.0
42"		87.8	130.0	130.0	112.3	130.0	130.0
48"		76.9	115.3	130.0	98.3	130.0	130.0
53"		69.6	104.4	130.0	89.0	130.0	130.0
54"		68.3	102.5	130.0	87.4	130.0	130.0
56"		65.9	98.8	130.0	84.2	126.4	130.0
60"		61.5	92.2	123.0	78.6	117.9	130.0
30"	90"	114.8	130.0	130.0	130.0	130.0	130.0
36"		95.6	130.0	130.0	122.3	130.0	130.0
42"		82.0	123.0	130.0	104.8	130.0	130.0
48"		71.7	107.6	130.0	91.7	130.0	130.0
53"		65.0	97.4	129.9	83.1	124.6	130.0
54"		63.8	95.6	127.5	81.5	122.3	130.0
56"		61.5	92.2	123.0	78.6	117.9	130.0
60"		57.4	86.1	114.8	73.4	110.1	130.0
30"	96"	107.6	130.0	130.0	130.0	130.0	130.0
36"		89.7	130.0	130.0	114.7	130.0	130.0
42"		76.9	115.3	130.0	98.3	130.0	130.0
48"		67.3	100.9	130.0	86.0	129.0	130.0
53"		60.9	91.4	121.8	77.9	116.8	130.0
54"		59.8	89.7	119.6	76.4	114.7	130.0
56"		57.6	86.5	115.3	73.7	110.6	130.0
60"		53.8	80.7	107.6	68.8	103.2	130.0
30"	102"	101.3	130.0	130.0	129.5	130.0	130.0
36"		84.4	126.6	130.0	107.9	130.0	130.0
42"		72.3	108.5	130.0	92.5	130.0	130.0
48"		63.3	94.9	126.6	80.9	121.4	130.0
53"		57.3	86.0	114.6	73.3	110.0	130.0
54"		56.3	84.4	112.5	71.9	107.9	130.0
56"		54.3	81.4	108.5	69.4	104.1	130.0
30"	108"	95.6	130.0	130.0	122.3	130.0	130.0
36"		79.7	119.6	130.0	101.9	130.0	130.0
42"		68.3	102.5	130.0	87.4	130.0	130.0
48"		59.8	89.7	119.6	76.4	114.7	130.0
53"		54.1	81.2	108.3	69.2	103.8	130.0

ANCHOR LOAD CAPACITY – PSF POS. (+) & NEG. (–)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3	B4/C4
30"	114"	90.6	130.0	130.0	115.9	130.0	130.0
36"		75.5	113.3	130.0	96.6	130.0	130.0
42"		64.7	97.1	129.4	82.8	124.2	130.0
48"		56.6	84.9	113.3	72.4	108.6	130.0
30"	120"	86.1	129.1	130.0	110.1	130.0	130.0
36"		71.7	107.6	130.0	91.7	130.0	130.0
42"		61.5	92.2	123.0	78.6	117.9	130.0
48"		53.8	80.7	107.6	68.8	103.2	130.0

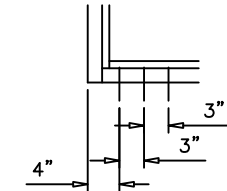


WIDTH (W) = W1
AT FRAME JAMB

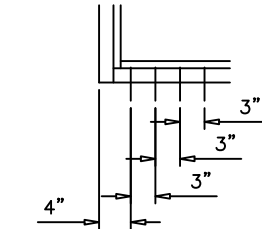
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



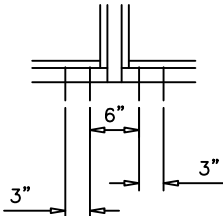
A2, B2, C2



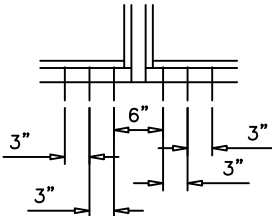
A3, B3, C3



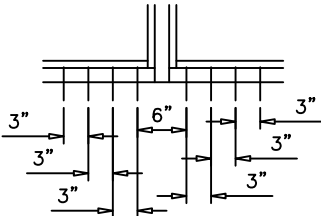
A4, B4, C4



A2, B2, C2



A3, B3, C3



A4, B4, C4

NOTE:
USE SHEAR CLIP UW-403 AT
ANCHOR LOCATIONS OF SUFFICIENT LENGTH
TO COVER ALL ANCHOR SPACINGS

ANCHORS TYPES: SEE SHEET 7 FOR DESCRIPTION

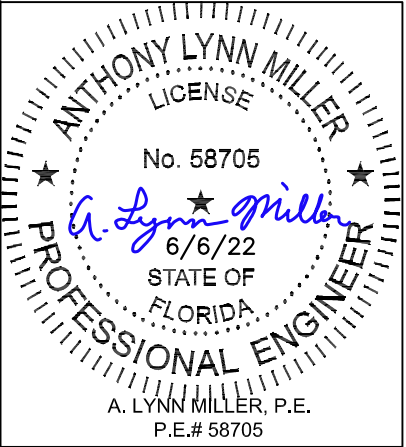
- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

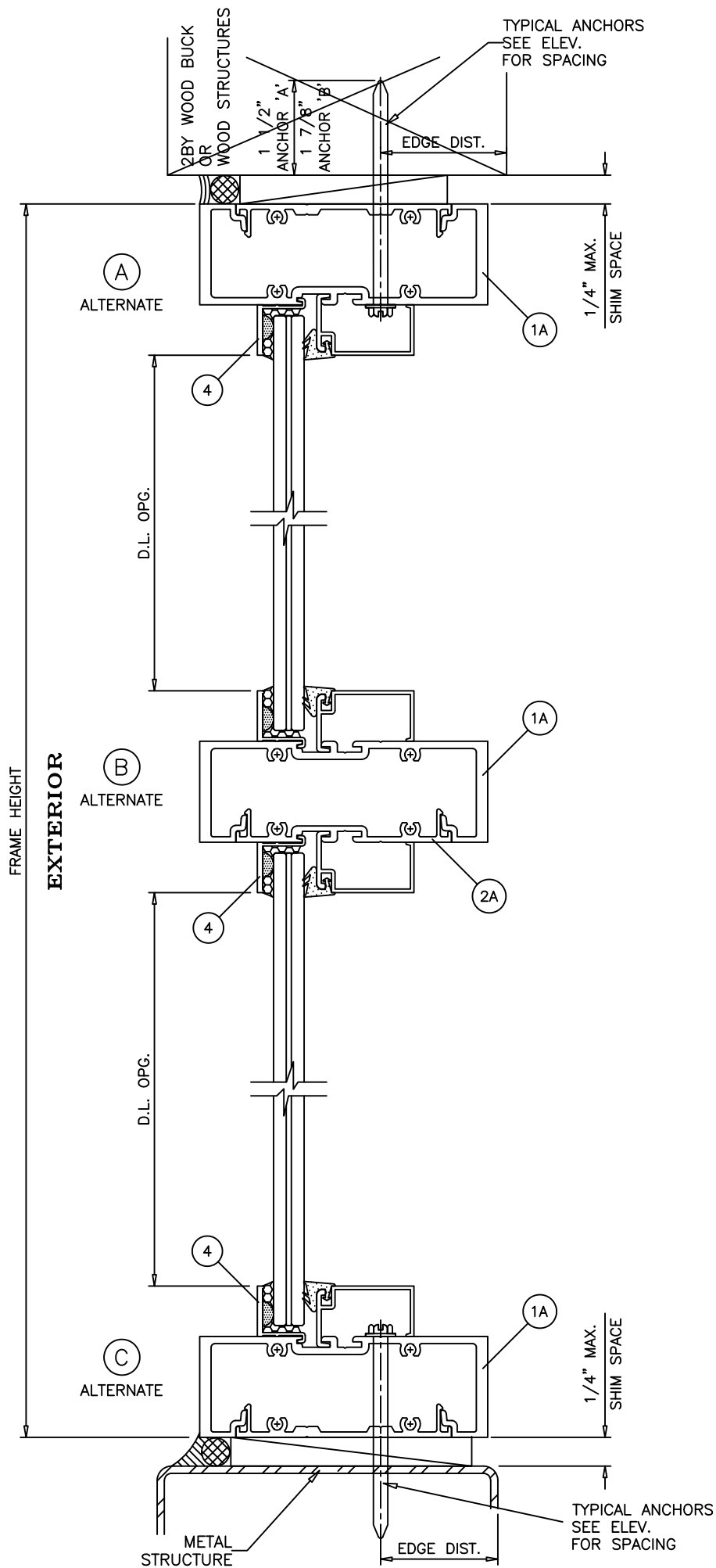
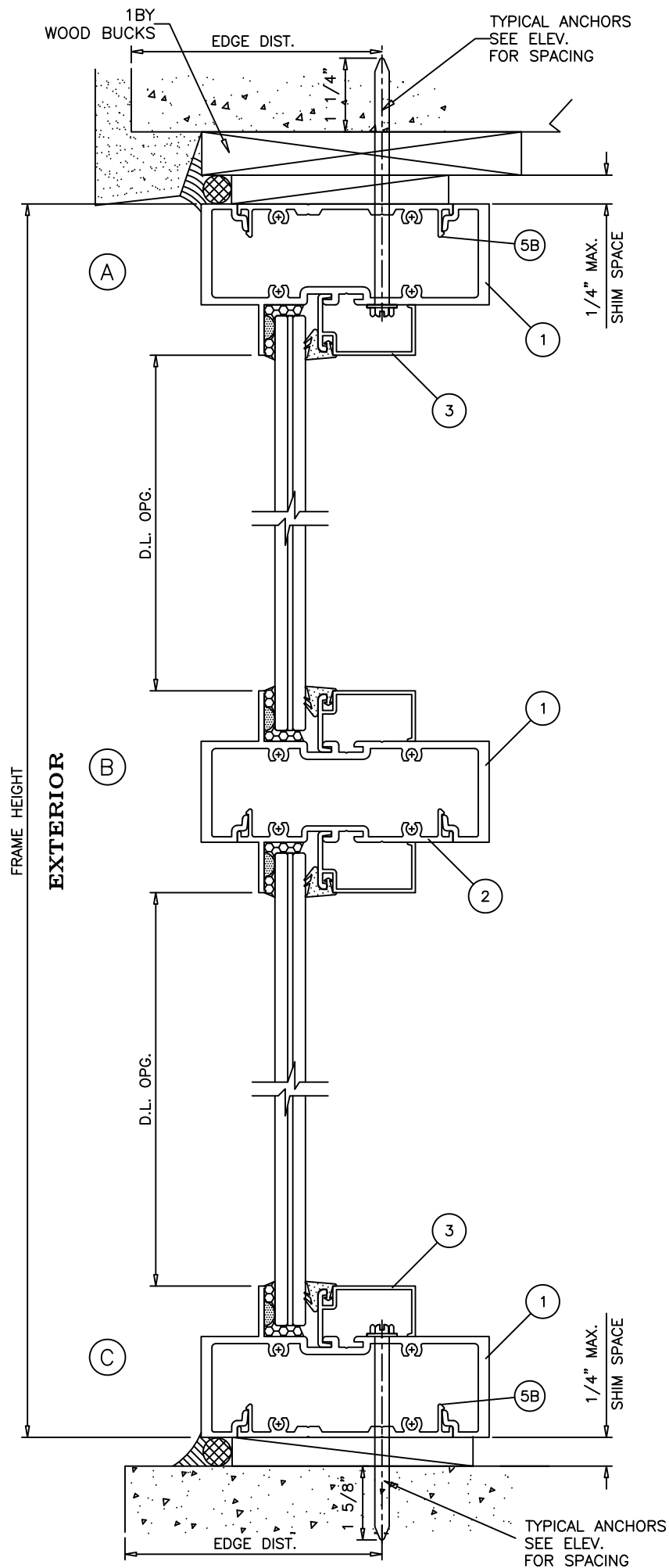
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	6/5/2022	HONG C.	WW400FPA - SMI	A			
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)		ANCHOR SPACING AND CAPACITIES				
window systems		Date		Drawn By				
6 OF 11		6 OF 11		Dwg No.				
SERIES 400		SERIES 400		Sheet				





WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'

1/4" DIA ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY WOOD BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR MASONRY
 1-5/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B'

5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO WOOD STRUCTURES
 1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-5/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 3-1/8" MIN.
 INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'C'

#14 SMS OR SELF DRILLING SCREWS ST/ST (GRADE 2 CRS)

INTO FBC APPROVED MULLIONS
 OR

INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE

STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

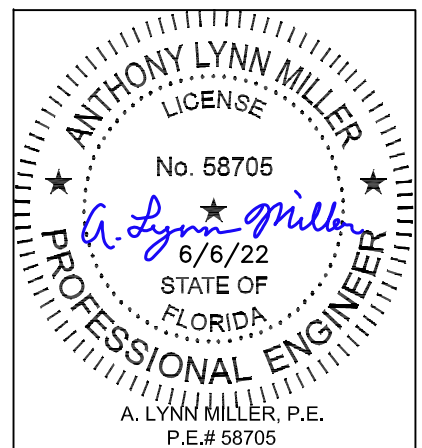
ANCHOR EDGE DISTANCES

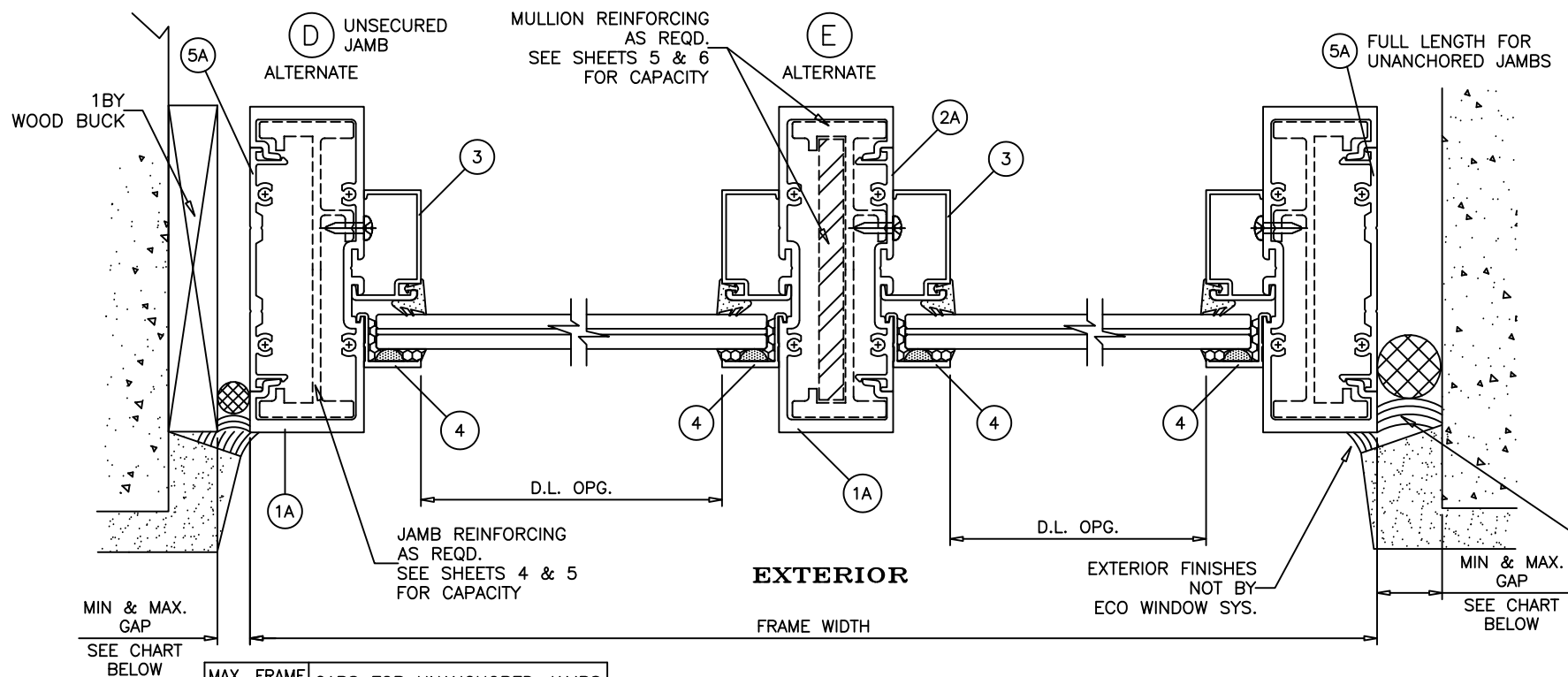
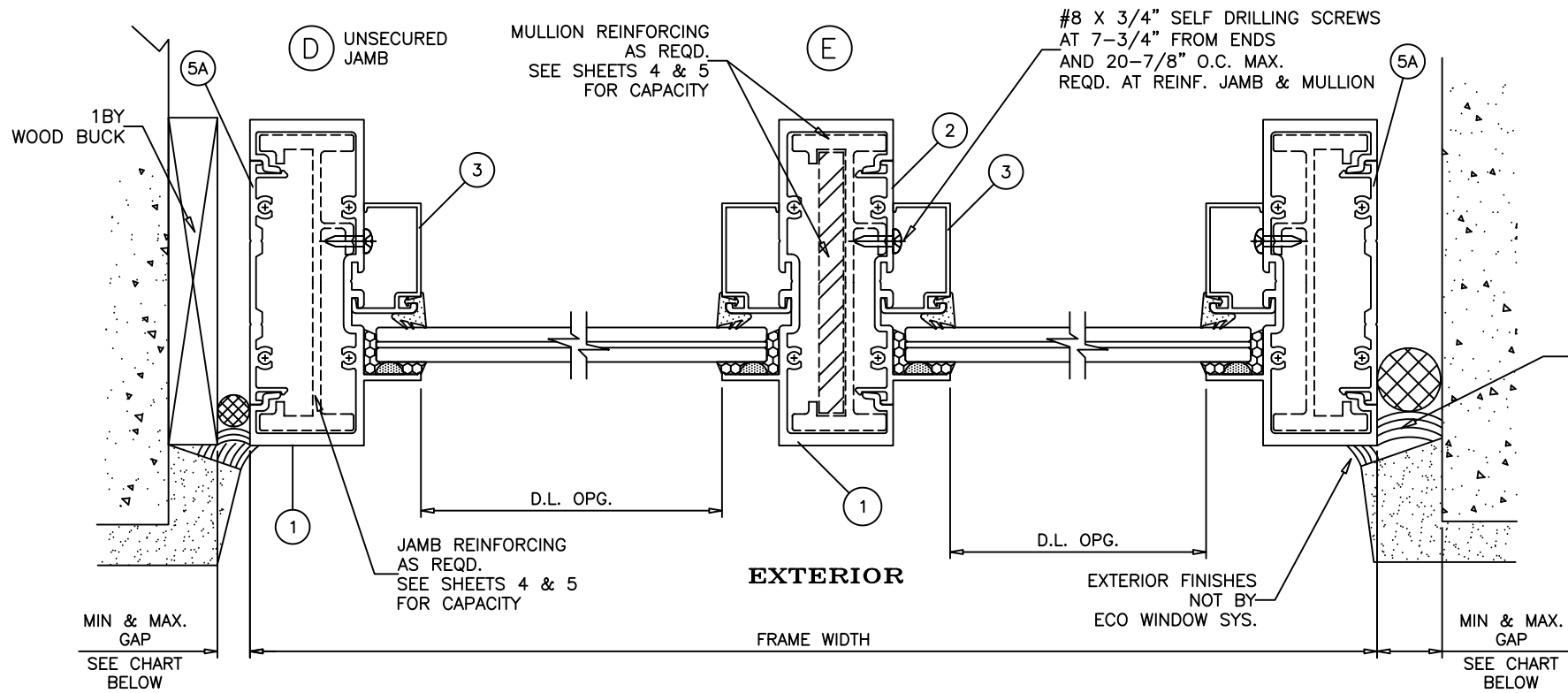
INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	6/5/2022	HONG C.	WW400FPA - SMI	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)	VERTICAL CROSS SECTIONS & ANCHOR SPECIFICATIONS	7 OF 11	DWC	A





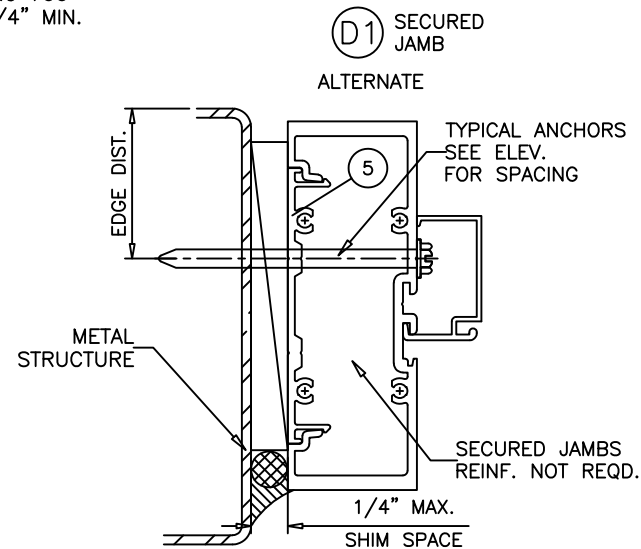
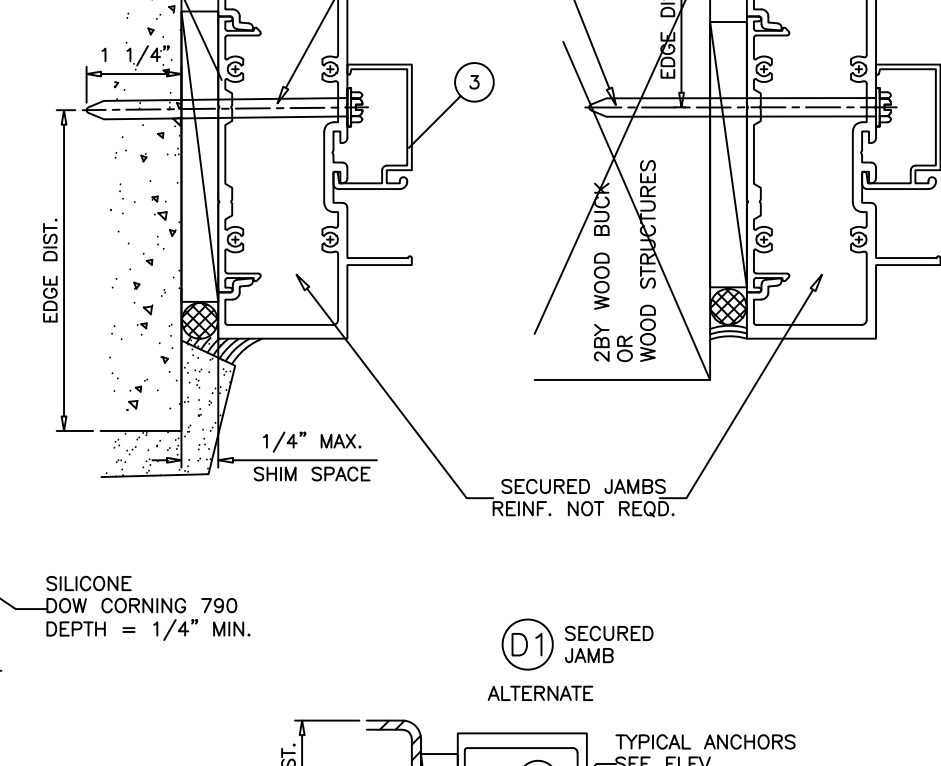
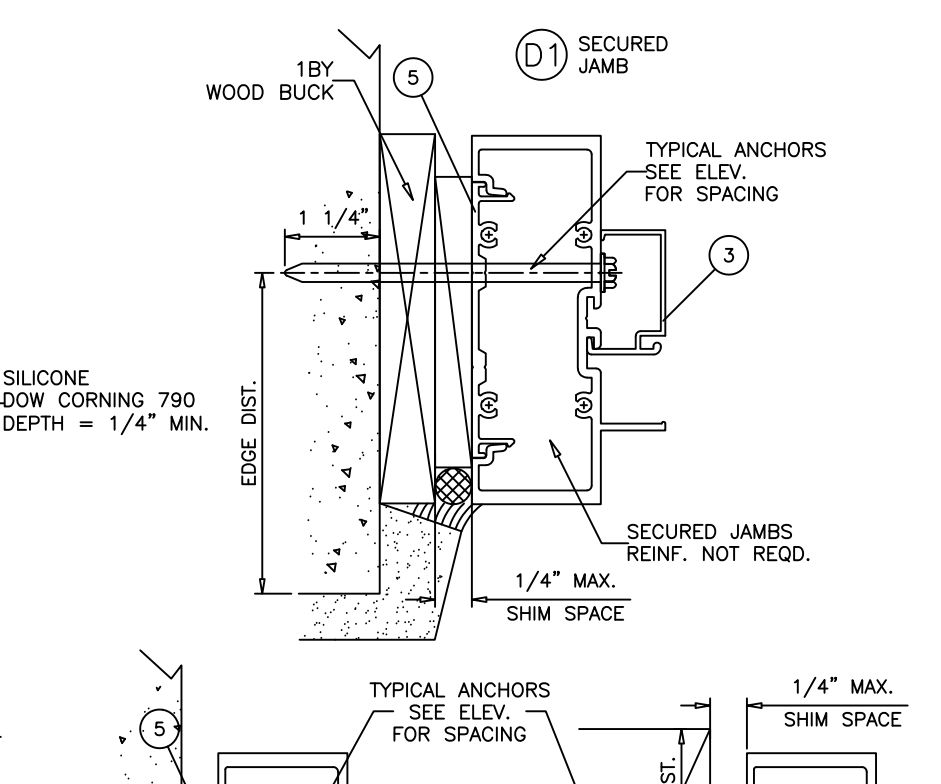
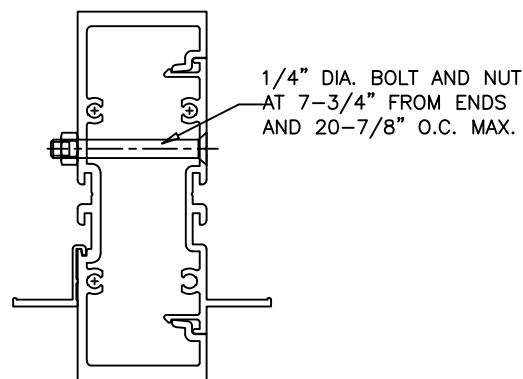
MAX. FRAME HEIGHT UP TO	GAPS FOR UNANCHORED JAMBS	
	MIN.	MAX.
120"	1/4"	1"

NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

REFER TO SHEETS 5 THRU 8 FOR SELECTION OF MULLION/JAMB WITH REINFORCED & UNREINFORCED FRAMES.



Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902

SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)

JAMB HORIZONTAL DETAILS

SERIES 400

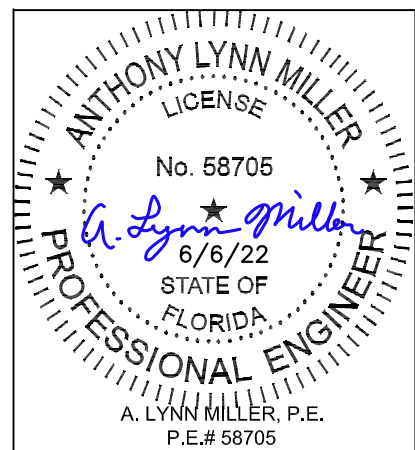
8 OF 11

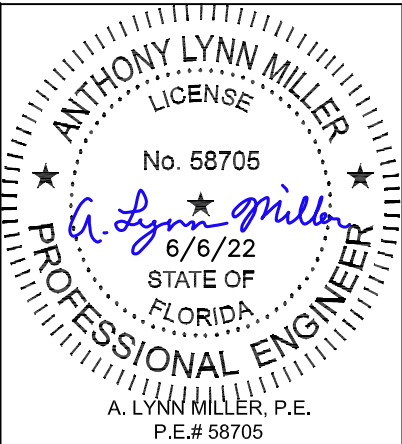
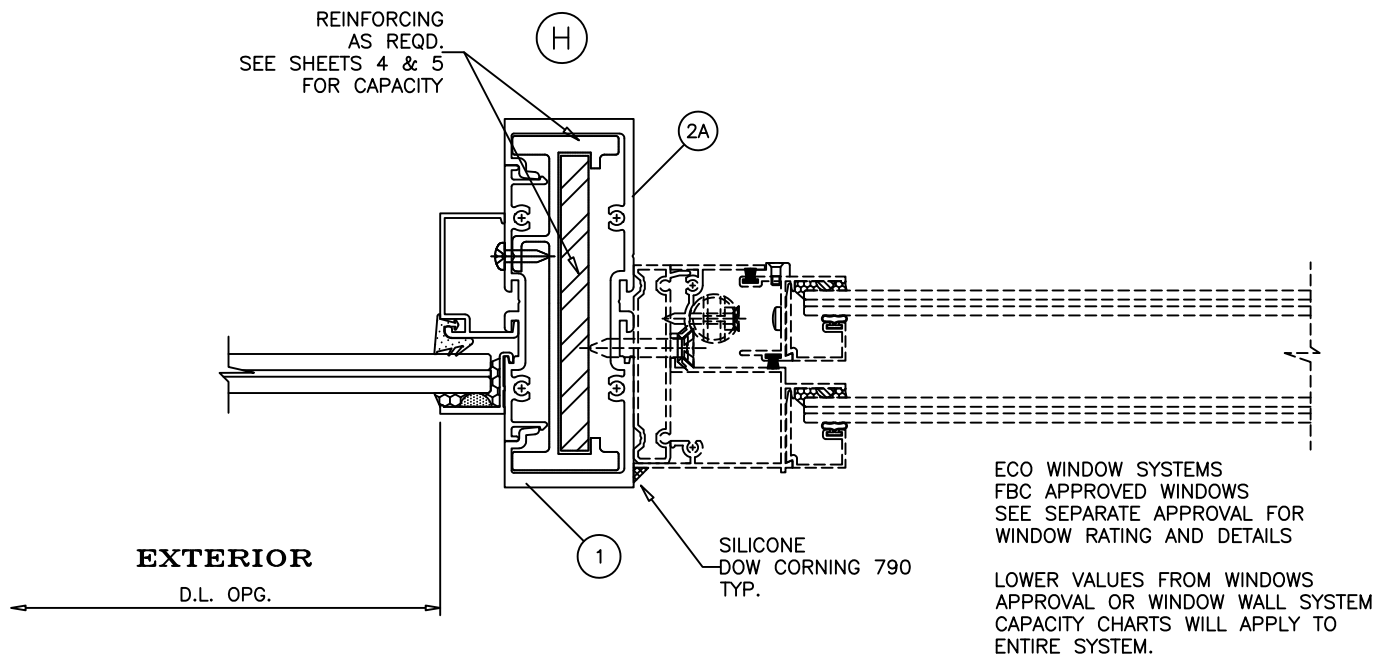
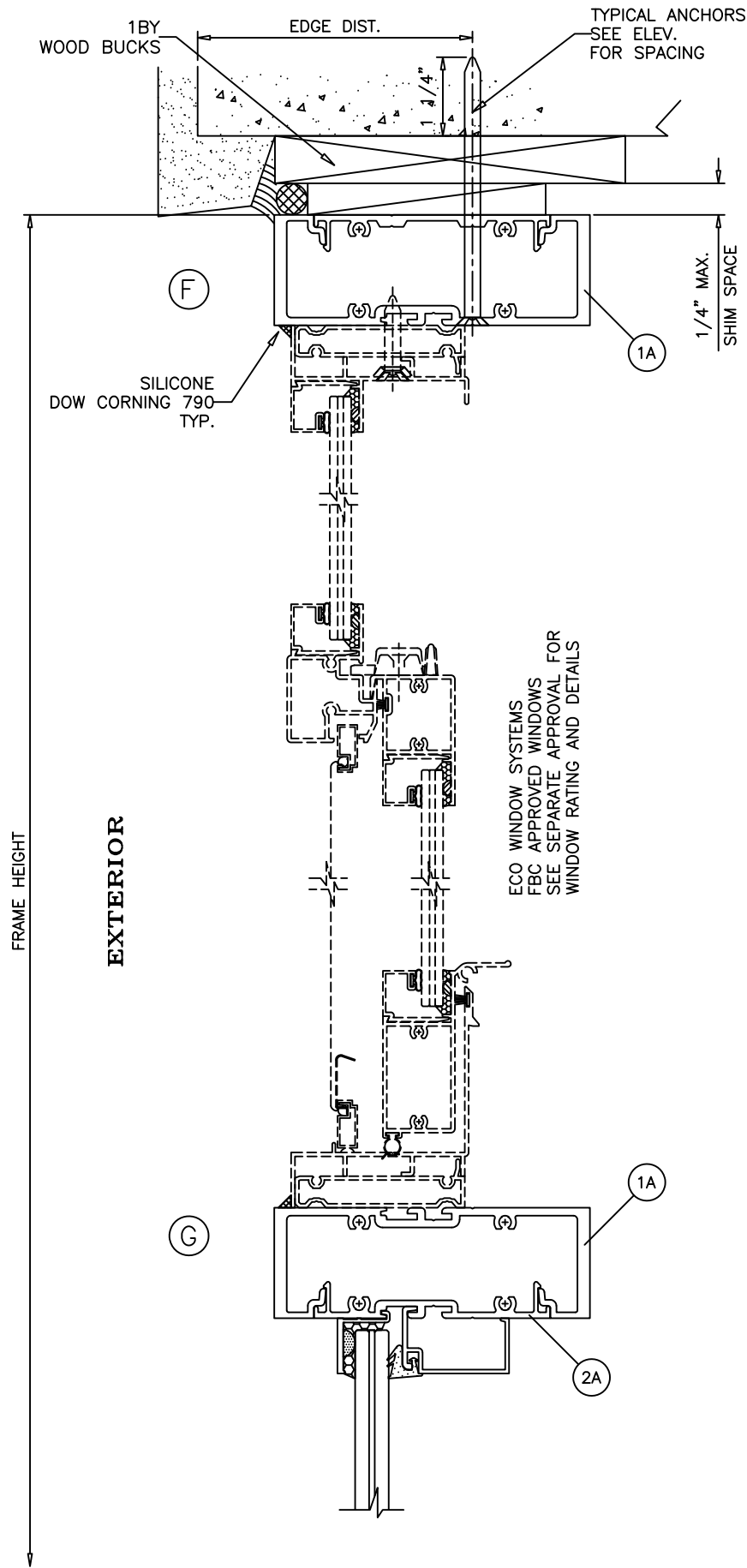
WW400FPA - SMI

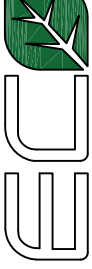
HONG C.

6/5/2022

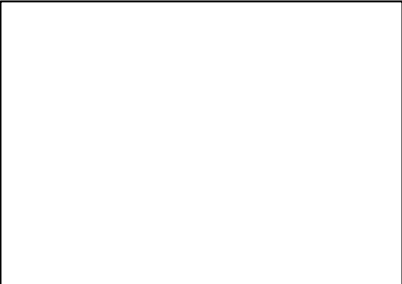
Rev. A

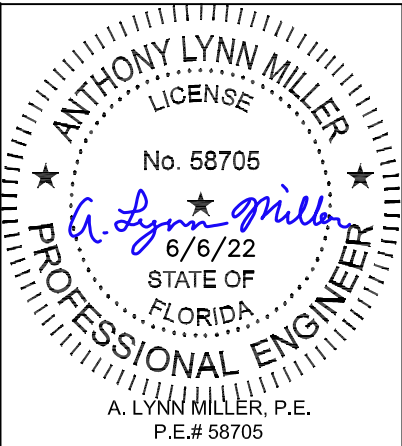
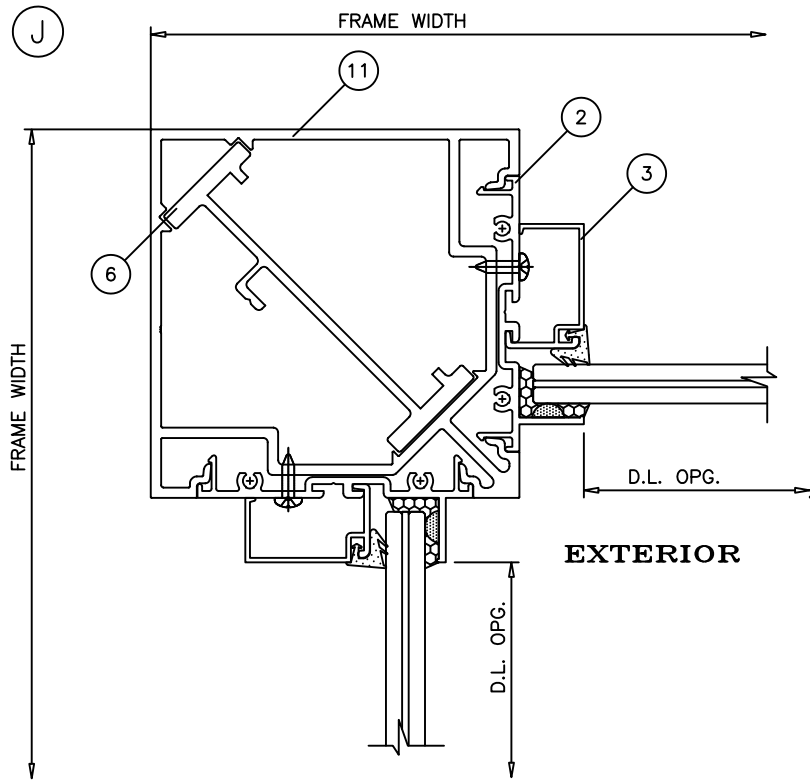
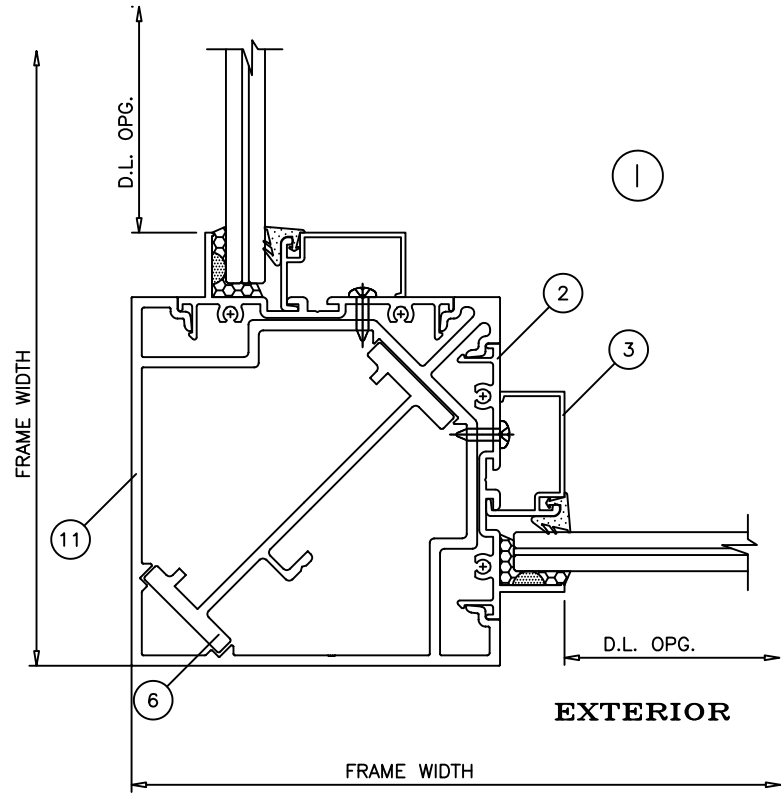




 ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600				REGISTRATION #29296			
		SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)		Date		6/5/2022			
		WINDOW INSERT CROSS SECTIONS		By		HONG C.			
		Series Desc.		Drawn					
SERIES 400	Sheet	9 OF 11		DWC No.		WW400FPA - SMI		Rev.	A

Revision:

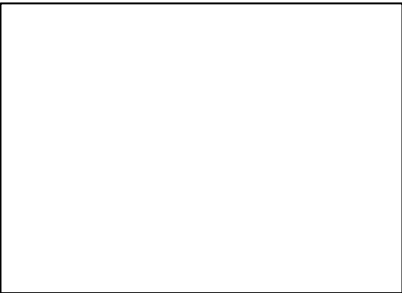
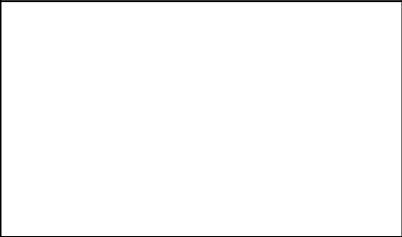


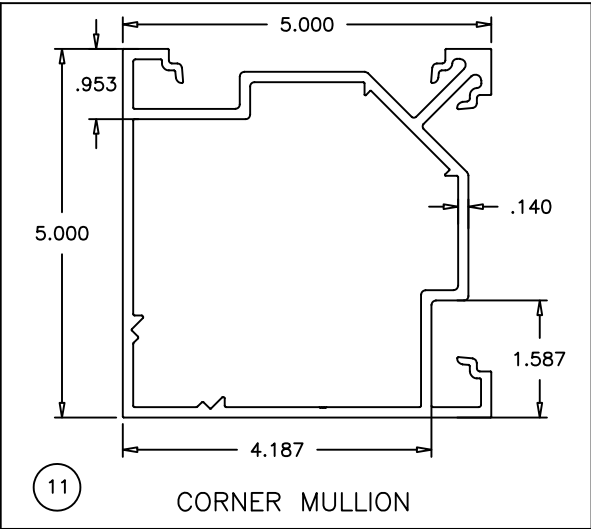
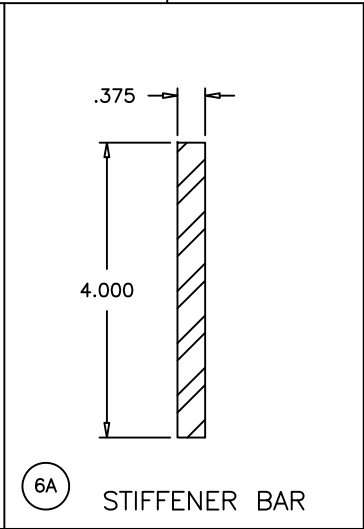
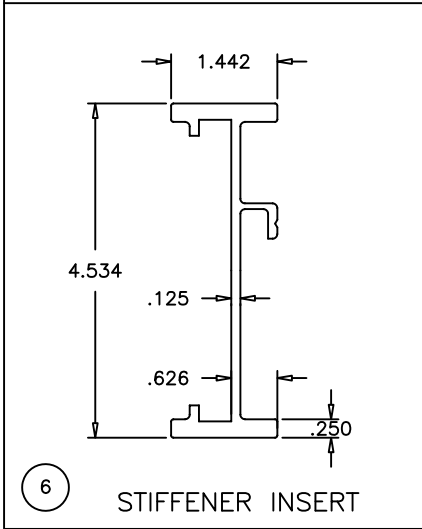
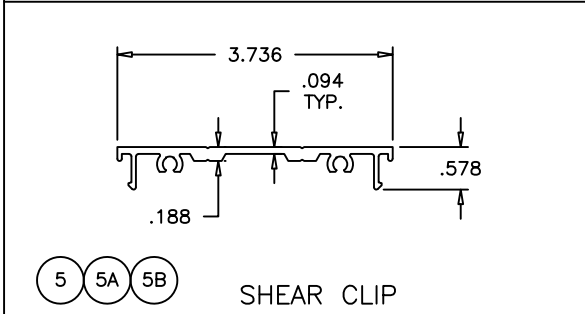
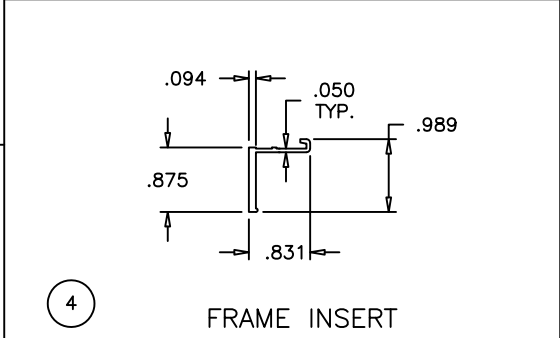
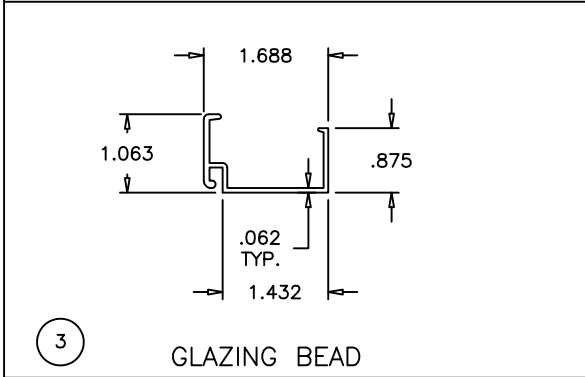
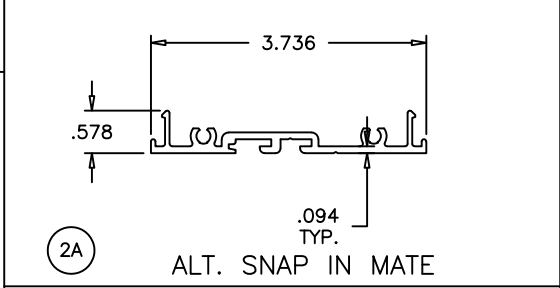
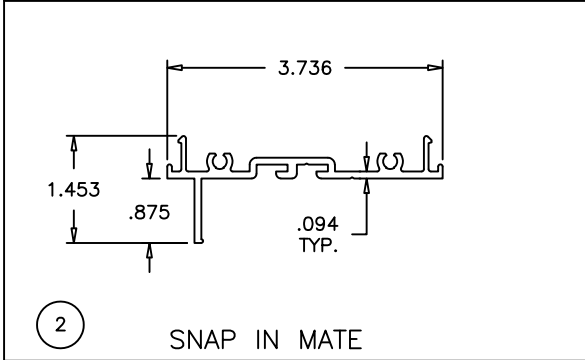
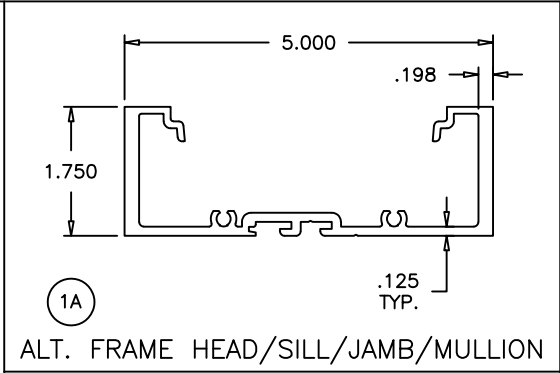
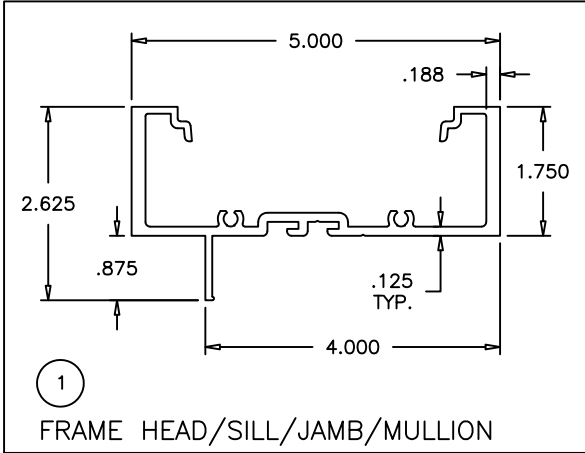


Series	Desc.	Title
SERIES 400	CORNER MULLION HORIZONTAL SECTION DETAILS	

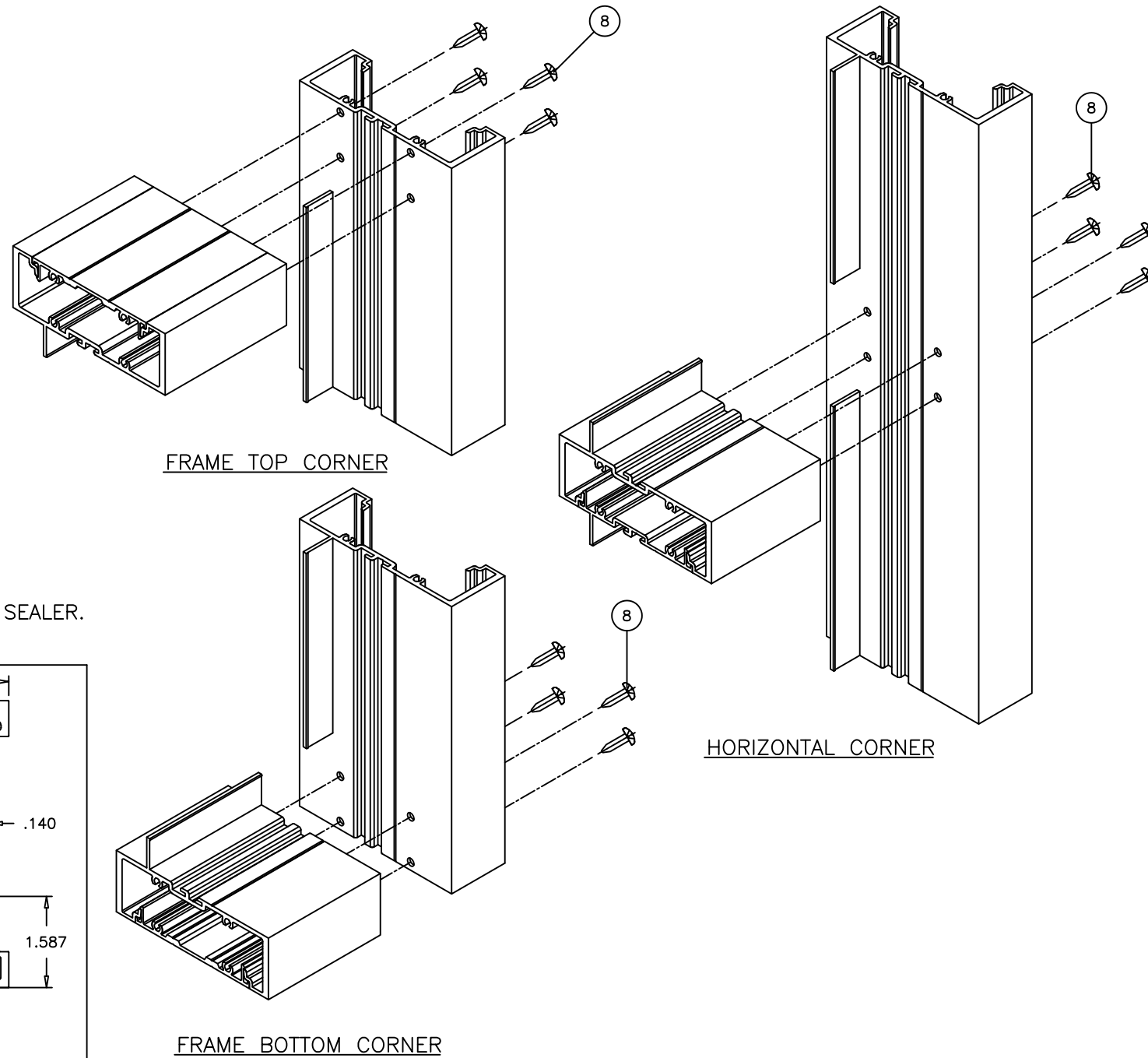
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902
SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)	REGISTRATION #29296	6/5/2022	HONG C.
10 OF 11	WW400FPA - SMI	Rev.	A

Revision:





ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	UW-401	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
1A	UW-407	AS REQD.	ALT. FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
2	UW-402	AS REQD.	SNAP-IN MATE	6063-T6	-
2A	UW-402	AS REQD.	ALT. SNAP-IN MATE	6063-T6	-
3	UW-404	AS REQD.	GLAZING BEAD	6063-T6	-
4	UW-408	AS REQD.	FRAME INSERT	6063-T6	-
5	UW-403	AS REQD.	SHEAR CLIP, 3-3/4" LONG AT JAMB ANCHORS	6063-T6	-
5A	UW-403	AS REQD.	SHEAR CLIP, FULL LENGTH	6063-T6	-
5B	UW-403	AS REQD.	SHEAR CLIP, LENGTH VARIES TO COVER ANCHOR SPACINGS	6063-T6	-
6	UW-408	AS REQD.	STIFFENER INSERT	6063-T6	-
6A	-	AS REQD.	STIFFENER BAR	GALV. STEEL	-
7	UW-406	AS REQD.	GLAZING GASKET	NEOPRENE	DUROMETER 55±5 SHORE A
8	#12 X 1-1/4" 4/ CORNER		FRAME ASSEMBLY SCREWS	-	PH SMS
9	-	2/ LITE	SETTING BLOCKS AT 1/4 POINTS (3/16" X 1/2" X 2")	NEOPRENE	3/16" X 1/2" X 2" LONG
10	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
11	UW-411	AS REQD.	CORNER MULLION	6063-T6	-



SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH SCHNEE-MOREHEAD SM5504 ACRYL-R SEAM SEALER.

Revision:

Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	6/5/2022	HONG C.	WW400FPA - SMI	A
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES 400 ALUM. WINDOW WALL SYSTEM (S.M.I.)	11 OF 11	BOM & EXTRUSION PROFILES	SERIES 400	Sheet
window systems	ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	11 OF 11	BOM & EXTRUSION PROFILES	SERIES 400	Sheet

