

SB75 I IMPACT CURTAIN WALL SYSTEM

- CURTAIN WALL SYSTEM IS RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR ELEVATIONS ABOVE 30'-0" FROM GRADE. IMPACT SHUTTERS ARE REQUIRED FOR ELEVATIONS BELOW 30'-0" FROM GRADE.
 - THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED ENTRANCE DOORS.
 - CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
-
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) / 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
 - WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
 - 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.
 - A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
 - 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 7TH EDITION (2020) / 8TH EDITION (2023) SECTION A5 APPLICABLE.
 - ULTIMATE DESIGN LOAD OBTAINED FROM ASCE-7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THE DOCUMENT ARE ALLOWABLE DESIGN LOADS.
 - MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

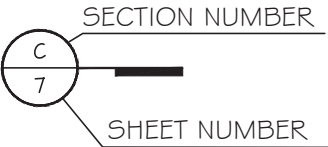
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE CHARTS ON SHEET G I FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M I THROUGH J6. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4: USING CHART ON SHEETS A I THROUGH A4 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

- D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W - WITH
W/O - WITHOUT
O.C. - ON CENTER
CW - CURTAIN WALL



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.



http://www.trulite.com

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PEACHTREE CITY, GA 30269
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT



REVN	DATE/REMARKS
RO	NEW APPLICATION

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
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Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:



October 07th, 2023

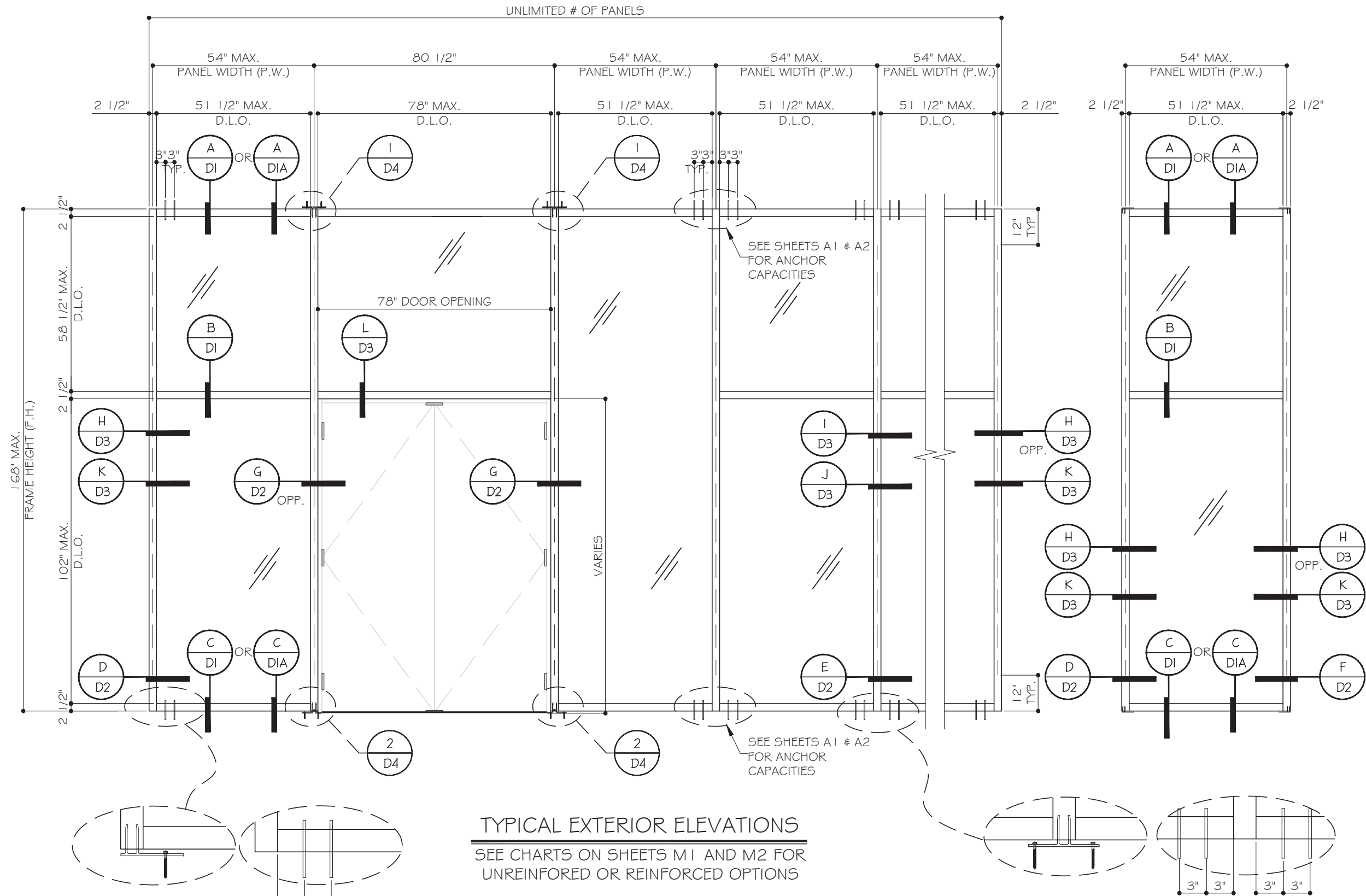
FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

COVER

DRAWN: James	SHEET No:
DATE: 10.07.23	1 OF 23
DWG: AD23-42	



JAMB ANCHOR CLIP OPTION @ HEAD/SILL
SEE SHEETS A3 & A4
FOR ANCHOR CAPACITIES

TYPICAL EXTERIOR ELEVATIONS
SEE CHARTS ON SHEETS M1 AND M2 FOR
UNREINFORCED OR REINFORCED OPTIONS

MULLION ANCHOR CLIP OPTION @ HEAD/SILL
SEE SHEETS A3 & A4
FOR ANCHOR CAPACITIES

PRODUCT:

**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

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FLORIDA APPROVAL:

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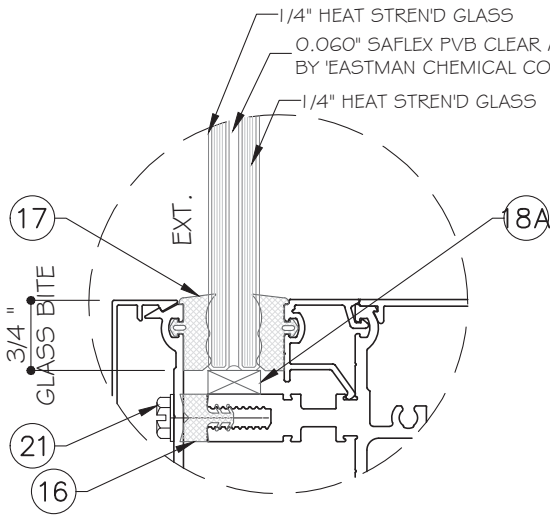
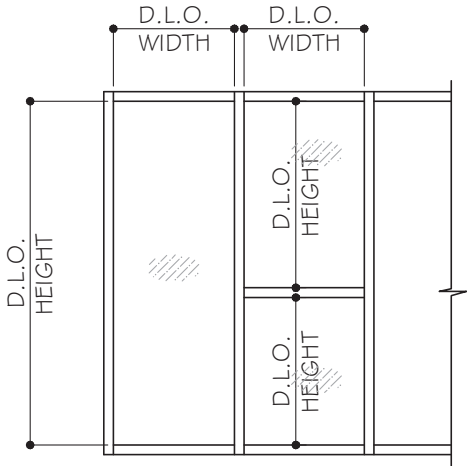
E1

DRAWN: James	SHEET No:
DATE: 10.07.23	2 OF 23
DWG: AD23-42	

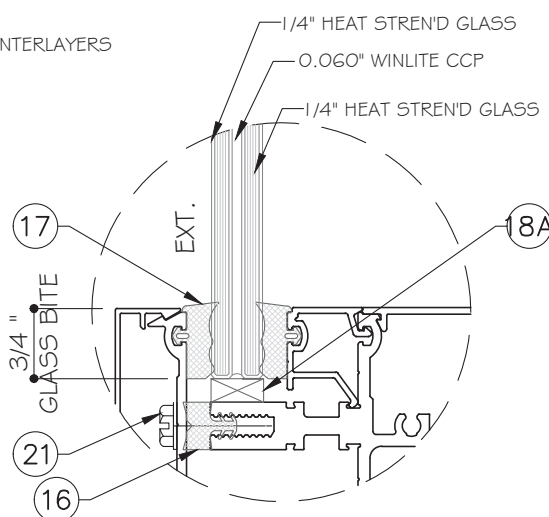
GLASS LOAD CAPACITY - PSF			
DAYLIGHT OPENING SIZE		GLASS TYPES	
		DRY GLAZED	
D.L.O. H. (IN.)	D.L.O. W. (IN.)	A	B
60	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0
	45.5	150.0	150.0
	48.5	150.0	150.0
	51.5	150.0	150.0
	54.5	150.0	150.0
66	57.5	150.0	150.0
	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0
	45.5	150.0	150.0
	48.5	150.0	150.0
	51.5	150.0	150.0
72	54.5	150.0	150.0
	57.5	150.0	150.0
	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0
	45.5	150.0	150.0
	48.5	150.0	150.0
78	51.5	150.0	150.0
	54.5	150.0	150.0
	57.5	149.0	149.0
	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0
	45.5	150.0	150.0
84	48.5	150.0	150.0
	51.5	150.0	150.0
	54.5	145.0	145.0
	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0
	45.5	150.0	150.0
90	48.5	149.0	149.0
	51.5	142.0	142.0
	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0

GLASS LOAD CAPACITY - PSF			
DAYLIGHT OPENING SIZE		GLASS TYPES	
		DRY GLAZED	
D.L.O. H. (IN.)	D.L.O. W. (IN.)	A	B
96	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0
	45.5	149.0	149.0
	48.5	141.0	141.0
102	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	150.0	150.0
	45.5	141.0	141.0
108	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
	42.5	145.0	145.0
	45.5	145.0	145.0
114	33.5	150.0	150.0
	36.5	150.0	150.0
	39.5	150.0	150.0
121	33.5	150.0	150.0
	36.5	150.0	150.0

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

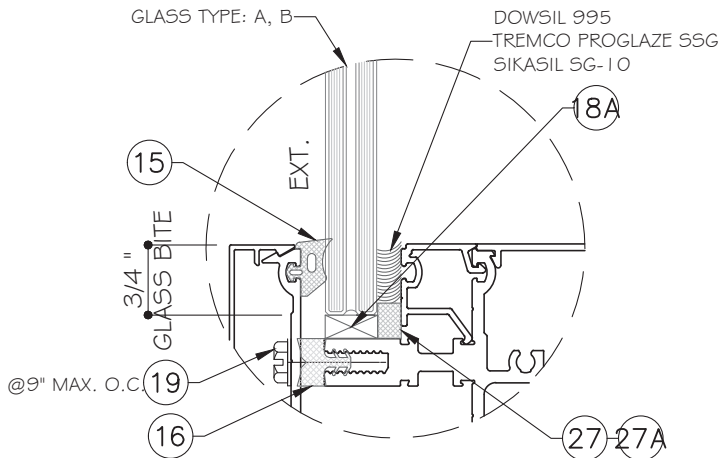


GLASS TYPE 'A'
9/16" NOMINAL OVERALL



GLASS TYPE 'B'
9/16" NOMINAL OVERALL

WET GLAZED OPTION



9/16" LAMINATED GLASS

PRODUCT:

**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**

Resistor
PRODUCT SERIES

REVN DATE/REMARKS

R0 NEW APPLICATION

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STAMP:



October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

G1

DRAWN: James

DATE: 10.07.23

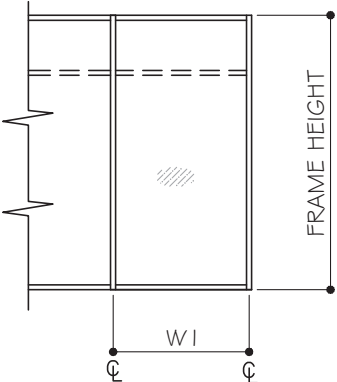
DWG: AD23-42

SHEET No:

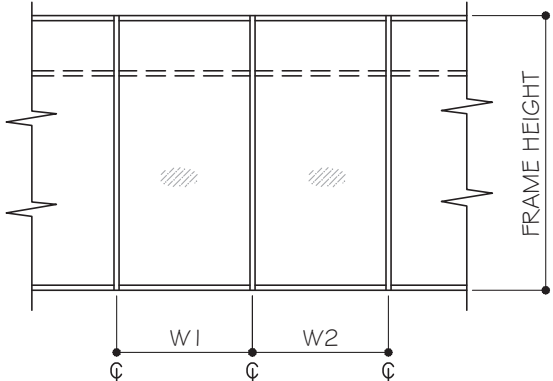
3 OF 23

MULLION DESIGN LOAD CAPACITIES							
MULLION DIMENSIONS		MULLION (M1)		JAMB MULLION (J1)		JAMB MULLION (J3)	
		DESIGN LOAD		DESIGN LOAD		DESIGN LOAD	
HEIGHT (IN.)	WIDTH (W) (IN.)	(+) PSF	(-) PSF	(+) PSF	(-) PSF	(+) PSF	(-) PSF
78	36	150.0	150.0	150.0	150.0	150.0	150.0
	42	150.0	150.0	150.0	150.0	150.0	150.0
	48	150.0	150.0	150.0	150.0	150.0	150.0
	54	150.0	150.0	150.0	150.0	150.0	150.0
	60	150.0	150.0	150.0	150.0	150.0	150.0
	66	150.0	150.0	150.0	150.0	150.0	150.0
	72	65.0	65.0	65.0	65.0	65.0	65.0
84	36	150.0	150.0	150.0	150.0	150.0	150.0
	42	150.0	150.0	150.0	150.0	150.0	150.0
	48	150.0	150.0	150.0	150.0	150.0	150.0
	54	150.0	150.0	150.0	150.0	150.0	150.0
	60	143.5	143.5	150.0	150.0	143.5	150.0
	66	65.0	65.0	65.0	65.0	65.0	65.0
	72	65.0	65.0	65.0	65.0	65.0	65.0
90	36	150.0	150.0	150.0	150.0	150.0	150.0
	42	150.0	150.0	150.0	150.0	150.0	150.0
	48	150.0	150.0	150.0	150.0	150.0	150.0
	54	138.9	138.9	150.0	150.0	138.9	150.0
	60	65.0	65.0	65.0	65.0	65.0	65.0
	66	65.0	65.0	65.0	65.0	65.0	65.0
	72	65.0	65.0	65.0	65.0	65.0	65.0
96	36	150.0	150.0	150.0	150.0	150.0	150.0
	42	150.0	150.0	150.0	150.0	150.0	150.0
	48	137.3	137.3	150.0	150.0	137.3	150.0
	54	122.0	122.0	150.0	150.0	122.0	150.0
	60	65.0	65.0	65.0	65.0	65.0	65.0
	66	65.0	65.0	65.0	65.0	65.0	65.0
	72	65.0	65.0	65.0	65.0	65.0	65.0
102	36	150.0	150.0	150.0	150.0	150.0	150.0
	42	139.0	139.0	150.0	150.0	139.0	150.0
	48	121.6	121.6	150.0	150.0	149.0	150.0
	54	65.0	65.0	65.0	65.0	65.0	65.0
	60	65.0	65.0	65.0	65.0	65.0	65.0
	66	65.0	65.0	65.0	65.0	65.0	65.0
	72	65.0	65.0	65.0	65.0	65.0	65.0
108	36	144.6	144.6	144.6	150.0	150.0	150.0
	42	124.0	124.0	124.0	150.0	150.0	150.0
	48	108.5	108.5	108.5	150.0	133.0	133.0
	54	65.0	65.0	65.0	65.0	65.0	65.0
	60	65.0	65.0	65.0	65.0	65.0	65.0
	66	65.0	65.0	65.0	65.0	65.0	65.0
114	36	129.8	129.8	150.0	150.0	150.0	150.0
	42	111.3	111.3	150.0	150.0	137.0	137.0
	48	65.0	65.0	65.0	65.0	65.0	65.0
	54	65.0	65.0	65.0	65.0	65.0	65.0
	60	65.0	65.0	65.0	65.0	65.0	65.0
120	36	117.2	117.2	150.0	150.0	144.0	144.0
	42	100.4	100.4	150.0	150.0	123.0	123.0
	48	65.0	65.0	65.0	65.0	65.0	65.0
	54	65.0	65.0	65.0	65.0	65.0	65.0
	60	65.0	65.0	65.0	65.0	65.0	65.0
126	36	104.1	104.1	150.0	150.0	131.0	131.0
	42	65.0	65.0	65.0	65.0	65.0	65.0
	48	65.0	65.0	65.0	65.0	65.0	65.0
	54	65.0	65.0	65.0	65.0	65.0	65.0
	60	65.0	65.0	65.0	65.0	65.0	65.0
132	36	90.5	90.5	150.0	150.0	119.0	119.0
	42	65.0	65.0	65.0	65.0	65.0	65.0
	48	65.0	65.0	65.0	65.0	65.0	65.0
	54	65.0	65.0	65.0	65.0	65.0	65.0

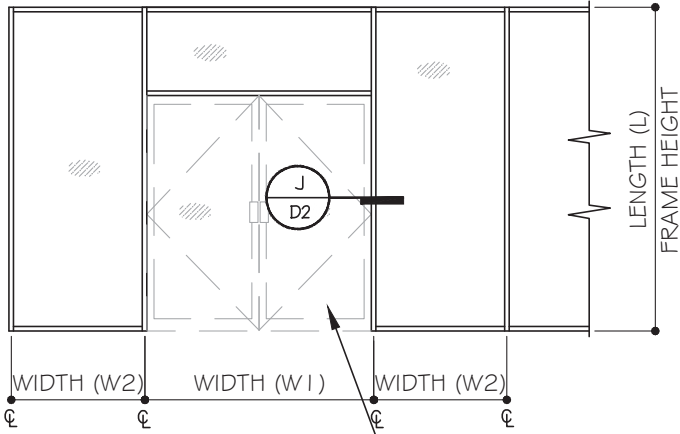
MULLION DESIGN LOAD CAPACITIES							
MULLION DIMENSIONS		MULLION (M1)		JAMB MULLION (J1)		JAMB MULLION (J3)	
		DESIGN LOAD		DESIGN LOAD		DESIGN LOAD	
HEIGHT (IN.)	WIDTH (W) (IN.)	(+) PSF	(-) PSF	(+) PSF	(-) PSF	(+) PSF	(-) PSF
138	36	79.2	79.2	150.0	150.0	109.0	109.0
	42	65.0	65.0	65.0	65.0	65.0	65.0
	48	65.0	65.0	65.0	65.0	65.0	65.0
	54	65.0	65.0	65.0	65.0	65.0	65.0
144	36	69.7	69.7	139.5	139.5	100.0	100.0
	42	65.0	65.0	65.0	65.0	65.0	65.0
	48	65.0	65.0	65.0	65.0	65.0	65.0



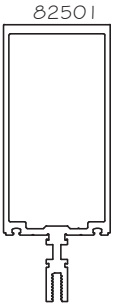
WIDTH (W) = W1 (JAMB)



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



WIDTH (W) = $\frac{W1 + W2}{2}$ REFER TO SEPARATE FLORIDA APPROVED IMPACT DOOR



MULLION (M1) (J1)



JAMB MULLION (J3)

M1	lx IN^4	Sx IN^3
82501	12.1992	3.5275

J1	lx IN^4	Sx IN^3
82504	9.8902	2.7949

STEP 3: JAMB/MULLION LOAD CAPACITIES



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STAMP:

YOUNG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. No. 55983
October 07th, 2023

FLORIDA APPROVAL:

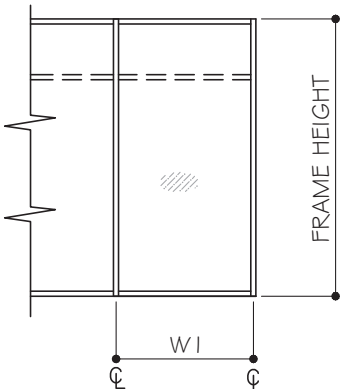
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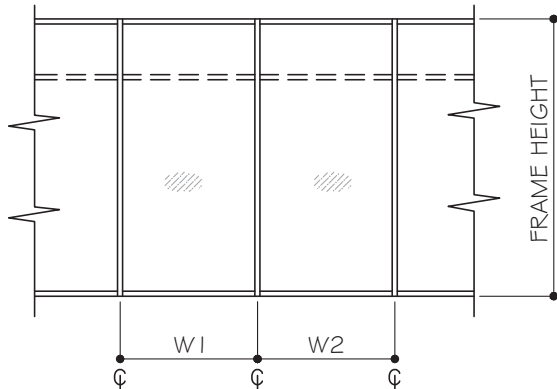
M1

DRAWN: James	SHEET No:
DATE: 10.07.23	4 OF 23
DWG: AD23-42	

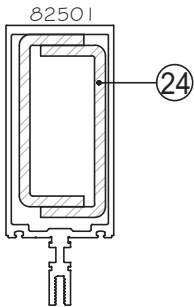
MULLION DESIGN LOAD CAPACITIES							
MULLION DIMENSIONS		MULLION (M2)		MULLION (M3)		JAMB MULLION (J2)(J4)	
		DESIGN LOAD		DESIGN LOAD		DESIGN LOAD	
HEIGHT (IN.)	WIDTH (W) (IN.)	(+) PSF	(-) PSF	(+) PSF	(-) PSF	(+) PSF	(-) PSF
120	42	135.0	135.0	150.0	150.0	150.0	150.0
	48	65.0	65.0	75.0	75.0	75.0	75.0
	54	65.0	65.0	75.0	75.0	75.0	75.0
	60	65.0	65.0	75.0	75.0	75.0	75.0
	66	55.0	55.0	75.0	75.0	75.0	75.0
	72	55.0	55.0	75.0	75.0	75.0	75.0
126	42	128.6	128.6	150.0	150.0	150.0	150.0
	48	65.0	65.0	75.0	75.0	75.0	75.0
	54	65.0	65.0	75.0	75.0	75.0	75.0
	60	65.0	65.0	75.0	75.0	75.0	75.0
	66	55.0	55.0	75.0	75.0	75.0	75.0
	72	55.0	55.0	75.0	75.0	75.0	75.0
132	42	65.0	65.0	75.0	75.0	75.0	75.0
	48	65.0	65.0	75.0	75.0	75.0	75.0
	54	65.0	65.0	75.0	75.0	75.0	75.0
	60	55.0	55.0	75.0	75.0	75.0	75.0
	66	55.0	55.0	75.0	75.0	75.0	75.0
	72	55.0	55.0	75.0	75.0	75.0	75.0
138	42	65.0	65.0	75.0	75.0	75.0	75.0
	48	65.0	65.0	75.0	75.0	75.0	75.0
	54	65.0	65.0	75.0	75.0	75.0	75.0
	60	55.0	55.0	75.0	75.0	75.0	75.0
144	42	65.0	65.0	75.0	75.0	75.0	75.0
	48	65.0	65.0	75.0	75.0	75.0	75.0
	54	55.0	55.0	75.0	75.0	75.0	75.0
	60	55.0	55.0	75.0	75.0	75.0	75.0
150	42	65.0	65.0	75.0	75.0	75.0	75.0
	48	65.0	65.0	75.0	75.0	75.0	75.0
	54	55.0	55.0	75.0	75.0	75.0	75.0
	60	55.0	55.0	75.0	75.0	75.0	75.0
156	42	65.0	65.0	75.0	75.0	75.0	75.0
	48	65.0	65.0	75.0	75.0	75.0	75.0
	54	55.0	55.0	75.0	75.0	75.0	75.0
162	42	65.0	65.0	75.0	75.0	75.0	75.0
	48	55.0	55.0	75.0	75.0	75.0	75.0
	54	55.0	55.0	75.0	75.0	75.0	75.0
168	42	65.0	65.0	75.0	75.0	75.0	75.0
	48	55.0	55.0	75.0	75.0	75.0	75.0
	54	55.0	55.0	75.0	75.0	75.0	75.0



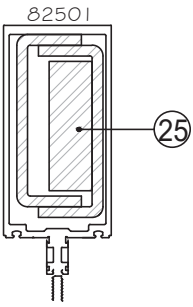
WIDTH (W) = W1 (JAMB)



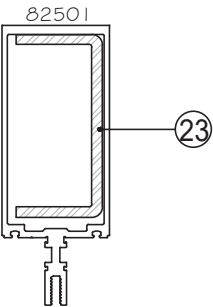
WIDTH (W) = $\frac{W1 + W2}{2}$



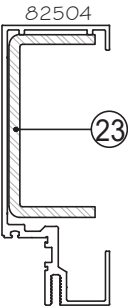
MULLION (M2)



MULLION (M3)



MULLION (J2)



JAMB MULLION (J4)

M2	Ix IN^4	Sx IN^3
82501	12.1992	3.5275
R3	7.4986	-
TOTAL	33.9451	-

M3	Ix IN^4	Sx IN^3
82501	12.1992	3.5275
R4	9.7486	-
TOTAL	40.4701	-

M2	Ix IN^4	Sx IN^3
82501	12.1992	3.5275
R1	4.6177	2.1370
TOTAL	16.8169	-

J2	Ix IN^4	Sx IN^3
82504	9.8902	2.7949
R1	4.6177	2.1370
TOTAL	23.4535	-

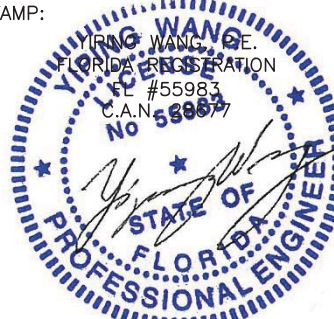
PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT


PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER: 
MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
P: (305) 271-0117
Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP: 
October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

M2

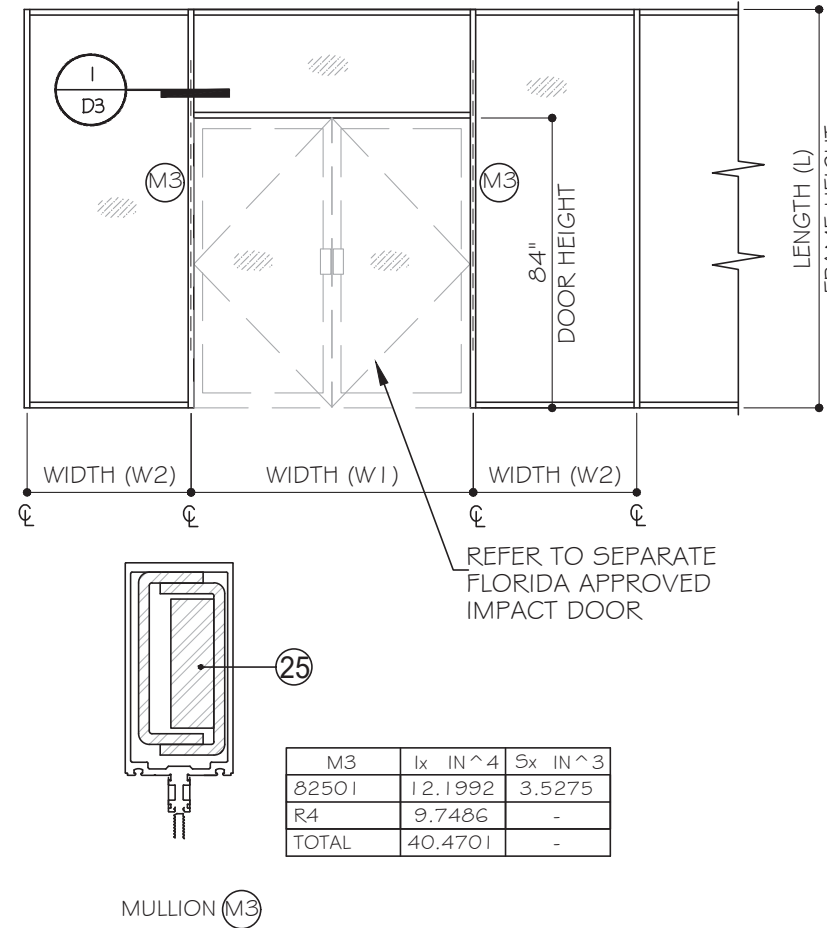
DRAWN: James	SHEET No: 5 OF 23
DATE: 10.07.23	
DWG: AD23-42	

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
108	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
114	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
120	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
120	84	72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
126	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
132	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
138	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0

CHART CONTINUES ON NEXT SHEET



STEP 3: JAMB/MULLION LOAD CAPACITIES



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PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT



REVN DATE/REMARKS
R0 NEW APPLICATION

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
P: (305) 271-0117
Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:



October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

J1

DRAWN: James

DATE: 10.07.23

DWG: AD23-42

SHEET No:

6 OF 23

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
144	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	54.0	54.0
150	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	53.0	53.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	51.0	51.0
156	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	53.0	53.0

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
156	84	72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
			72	51.0	51.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	51.0	51.0
162	84	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	52.0	52.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
			72	50.0	50.0
168	84	72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	54.0	54.0
			66	51.0	51.0
			72	50.0	50.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	53.0	53.0
			66	50.0	50.0
			72	50.0	50.0



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PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT



REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
P: (305) 271-0117
Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:

October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

J2

DRAWN: James	SHEET No: 7 OF 23
DATE: 10.07.23	
DWG: AD23-42	

DOOR JAMB MULLION CAPACITY

WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
120	96	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
126	96	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
132	96	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0

DOOR JAMB MULLION CAPACITY

WINDOW PANEL DIMENSION				DESIGN LOAD			
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF		
132	96	72	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
		78	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
138	96	60	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
		66	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
		72	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
		144	96	60	42	55.0	55.0
					48	55.0	55.0
					54	55.0	55.0
					60	55.0	55.0
					66	55.0	55.0
					72	55.0	55.0
66	42			55.0	55.0		
	48			55.0	55.0		
	54			55.0	55.0		
	60			55.0	55.0		
	66			55.0	55.0		
	72			55.0	55.0		
144	96	72	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
		78	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	54.0	54.0		

DOOR JAMB MULLION CAPACITY

WINDOW PANEL DIMENSION				DESIGN LOAD			
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF		
150	96	60	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
		66	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	55.0	55.0		
		72	42	55.0	55.0		
			48	55.0	55.0		
			54	55.0	55.0		
			60	55.0	55.0		
			66	55.0	55.0		
			72	54.0	54.0		
		150	96	72	42	55.0	55.0
					48	55.0	55.0
					54	55.0	55.0
					60	55.0	55.0
					66	55.0	55.0
					72	54.0	54.0
78	42			55.0	55.0		
	48			55.0	55.0		
	54			55.0	55.0		
	60			55.0	55.0		
	66			55.0	55.0		
	72			53.0	53.0		

CHART CONTINUES ON NEXT SHEET

Diagram illustrating the door and mullion assembly. The door is shown with dimensions: WIDTH (W1), WIDTH (W2), and DOOR HEIGHT. The mullion is labeled M3. The diagram also shows the door height (96") and the frame height (L). A note indicates to refer to a separate Florida approved impact door.

M3	1x IN^4	5x IN^3
82501	12.1992	3.5275
R4	9.7486	-
TOTAL	40.4701	-

STEP 3: JAMB/MULLION LOAD CAPACITIES

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PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

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Email: MCY@mcyengineering.com
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STAMP:

YOUNG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. No. 55983

October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

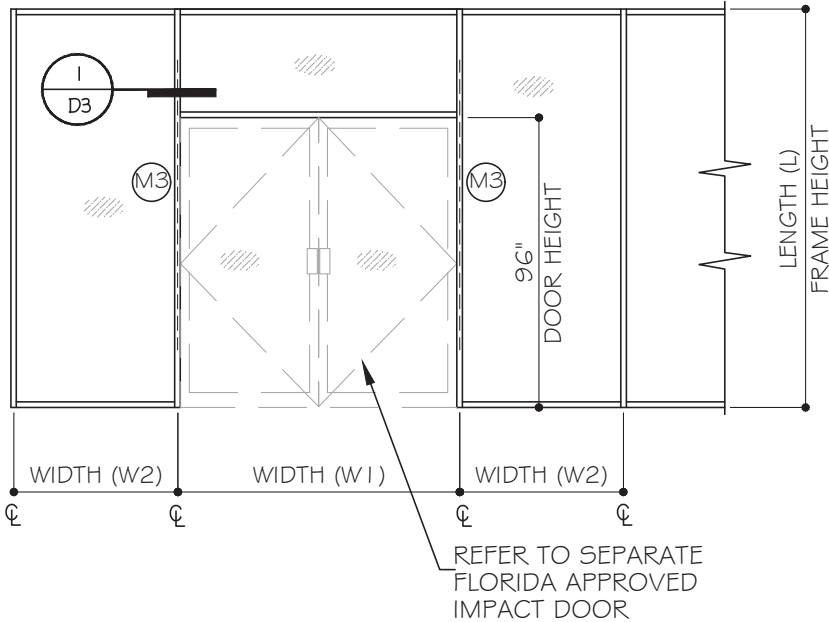
SHEET TITLE:

J3

DRAWN: James	SHEET No:
DATE: 10.07.23	8 OF 23
DWG: AD23-42	

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
156	96	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	54.0	54.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	52.0	52.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
162	96	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	53.0	53.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	51.0	51.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	52.0	52.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	53.0	53.0

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
168	96	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	51.0	51.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	52.0	52.0
			72	55.0	55.0
		72	48	55.0	55.0
			54	55.0	55.0
			60	53.0	53.0
			72	55.0	55.0
		78	48	55.0	55.0
			54	53.0	53.0



PRODUCT:

**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PWY. STE. 301
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STAMP:



October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

J4

DRAWN: James	SHEET No: 9 OF 23
DATE: 10.07.23	
DWG: AD23-42	

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
132	108	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
138	108	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
144	108	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
144	108	72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	53.0	53.0
150	108	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	53.0	53.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	51.0	51.0
156	108	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	54.0	54.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	52.0	52.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	52.0	52.0

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
162	108	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	54.0	54.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	52.0	52.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
			72	55.0	55.0
168	108	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	52.0	52.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	54.0	54.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	54.0	54.0

The diagram illustrates a door jamb and mullion assembly. It shows a central door opening with a mullion on the left and a jamb on the right. Dimensions are labeled: WIDTH (W2) for the mullion, WIDTH (W1) for the door opening, and WIDTH (W2) for the jamb. The door height is indicated as 96". The overall frame height is labeled as LENGTH (L). A callout points to the door, stating 'REFER TO SEPARATE FLORIDA APPROVED IMPACT DOOR'. A box at the bottom right contains the text 'STEP 3: JAMB/MULLION LOAD CAPACITIES'.



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PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT



PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

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STAMP:



October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

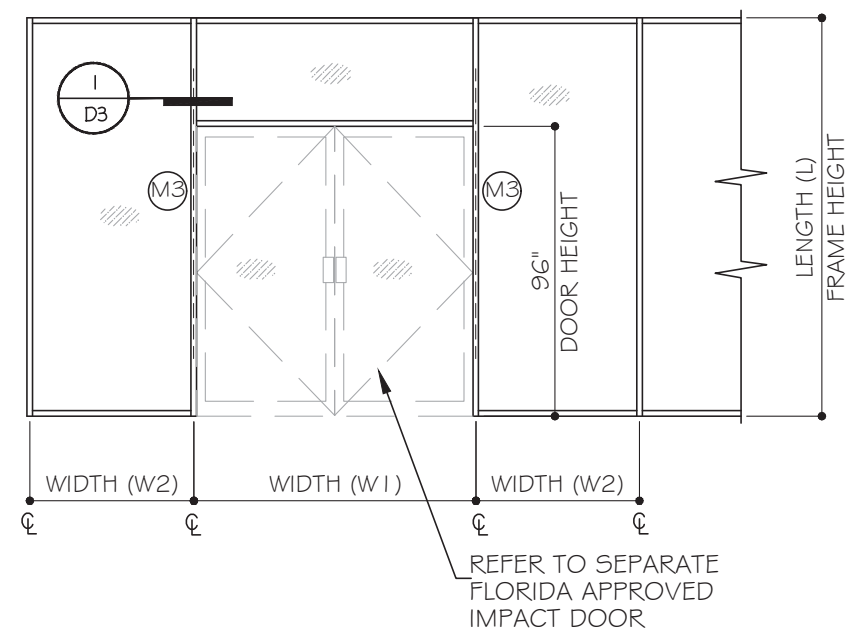
J5

DRAWN: James
DATE: 10.07.23
DWG: AD23-42

SHEET No:
10 OF 23

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
144	120	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	54.0	54.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	52.0	52.0
150	120	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	54.0	54.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	52.0	52.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
			72	50.0	50.0
156	120	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	55.0	55.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	53.0	53.0

DOOR JAMB MULLION CAPACITY					
WINDOW PANEL DIMENSION				DESIGN LOAD	
FRAME HEIGHT (IN.)	DOOR HEIGHT (IN.)	DOOR WIDTH (W1) (IN.)	SIDELITE WIDTH (W2) (IN.)	(+) PSF	(-) PSF
156	120	72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	53.0	53.0
			72	51.0	51.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	53.0	53.0
			66	51.0	51.0
			72	55.0	55.0
162	120	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	55.0	55.0
			72	53.0	53.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	51.0	51.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	54.0	54.0
			66	51.0	51.0
			72	55.0	55.0
168	120	60	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	54.0	54.0
			72	52.0	52.0
		66	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	55.0	55.0
			66	52.0	52.0
			72	50.0	50.0
		72	42	55.0	55.0
			48	55.0	55.0
			54	55.0	55.0
			60	52.0	52.0
			66	50.0	50.0
			72	55.0	55.0
		78	42	55.0	55.0
			48	55.0	55.0
			54	53.0	53.0
			60	50.0	50.0
			66	50.0	50.0
			72	50.0	50.0



STEP 3: JAMB/MULLION LOAD CAPACITIES



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PRODUCT:

SB751 IMPACT CURTAIN WALL
SMALL MISSILE IMPACT

**Resistor**
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

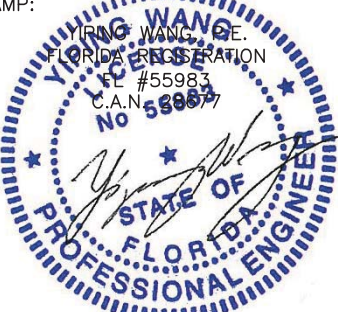
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
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Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:



October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

J6

DRAWN: James	SHEET No:
DATE: 10.07.23	11 OF 23
DWG: AD23-42	

ANCHOR DESIGN LOAD CAPACITIES						
NOMINAL DIMENSIONS		ANCHOR TYPES				
		AA2/A2	AA3/A3	AA4/A4	A2	A3
MULLION WIDTH	FRAME HEIGHT	1/2" SHIM			3/8" SHIM	
(IN.)	(IN.)	DESIGN LOAD (PSF)				
36	78	119.8	150.0	150.0	150.0	150.0
42		102.7	150.0	150.0	129.4	150.0
48		89.8	134.8	150.0	113.2	150.0
54		79.9	119.8	147.7	100.6	147.7
60		71.9	107.8	132.9	90.6	132.9
66		65.3	98.0	120.8	82.3	120.8
72		59.9	89.8	110.8	75.5	110.8
36	84	111.2	150.0	150.0	140.2	150.0
42		95.3	143.0	150.0	120.2	150.0
48		83.4	125.1	150.0	105.1	150.0
54		74.2	111.2	137.1	93.5	137.1
60		66.7	100.1	123.4	84.1	123.4
66		60.7	91.0	112.2	76.5	112.2
72		55.6	83.4	102.9	70.1	102.9
36	90	103.8	150.0	150.0	130.8	150.0
42		89.0	133.5	150.0	112.2	150.0
48		77.9	116.8	144.0	98.1	144.0
54		69.2	103.8	128.0	87.2	128.0
60		62.3	93.4	115.2	78.5	115.2
66		56.6	84.9	104.7	71.4	104.7
72		51.9	77.9	96.0	65.4	96.0
36	96	97.3	146.0	150.0	122.7	150.0
42		83.4	125.1	150.0	105.1	150.0
48		73.0	109.5	135.0	92.0	135.0
54		64.9	97.3	120.0	81.8	120.0
60		58.4	87.6	108.0	73.6	108.0
66		53.1	79.6	98.2	66.9	98.2
72		48.7	73.0	90.0	61.3	90.0
42	102	78.5	117.8	145.2	99.0	145.2
48		68.7	103.1	127.1	86.6	127.1
54		61.1	91.6	112.9	77.0	112.9
60		55.0	82.4	101.6	69.3	101.6
66		50.0	75.0	92.4	63.0	92.4
72		45.8	68.7	84.7	57.7	84.7
36	108	86.5	129.8	150.0	109.0	150.0
42		74.2	111.2	137.1	93.5	137.1
48		64.9	97.3	120.0	81.8	120.0
54		57.7	86.5	106.7	72.7	106.7
60		51.9	77.9	96.0	65.4	96.0
66		47.2	70.8	87.3	59.5	87.3
72		43.3	64.9	80.0	54.5	80.0
36	114	82.0	122.9	150.0	103.3	150.0
42		70.3	105.4	129.9	88.5	129.9
48		61.5	92.2	113.7	77.5	113.7
54		54.6	82.0	101.1	68.9	101.1
60		49.2	73.8	90.9	62.0	90.9
66		44.7	67.1	82.7	56.3	82.7
72		41.0	61.5	75.8	51.6	75.8
36	120	77.9	116.8	144.0	98.1	144.0
42		66.7	100.1	123.4	84.1	123.4
48		58.4	87.6	108.0	73.6	108.0
54		51.9	77.9	96.0	65.4	96.0
60		46.7	70.1	86.4	58.9	86.4
66		42.5	63.7	78.5	53.5	78.5
72		38.9	58.4	72.0	49.1	72.0

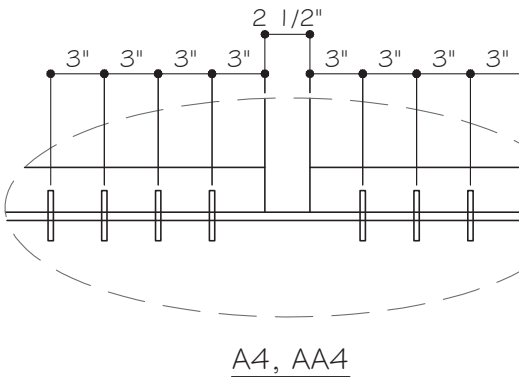
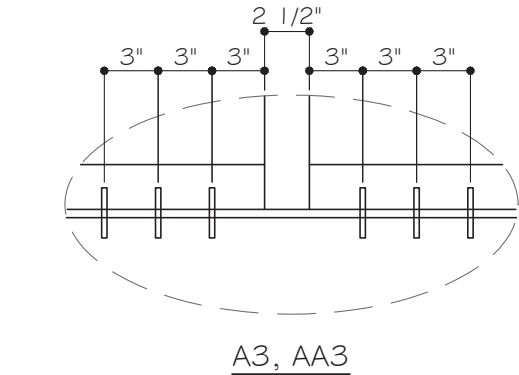
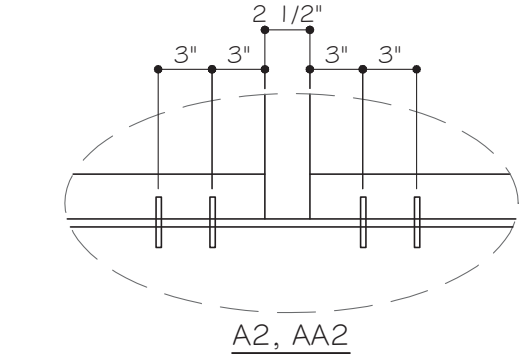
ANCHOR DESIGN LOAD CAPACITIES						
NOMINAL DIMENSIONS		ANCHOR TYPES				
		AA2/A2	AA3/A3	AA4/A4	A2	A3
MULLION WIDTH	FRAME HEIGHT	1/2" SHIM			3/8" SHIM	
(IN.)	(IN.)	DESIGN LOAD (PSF)				
36	126	74.2	111.2	137.1	93.5	137.1
42		63.6	95.3	117.6	80.1	117.6
48		55.6	83.4	102.9	70.1	102.9
54		49.4	74.2	91.4	62.3	91.4
60		44.5	66.7	82.3	56.1	82.3
66		40.5	60.7	74.8	51.0	74.8
72		37.1	55.6	68.6	46.7	68.6
36	132	70.8	106.2	130.9	89.2	130.9
42		60.7	91.0	112.2	76.5	112.2
48		53.1	79.6	98.2	66.9	98.2
54		47.2	70.8	87.3	59.5	87.3
60		42.5	63.7	78.5	53.5	78.5
66		38.6	57.9	71.4	48.7	71.4
36	138	67.7	101.6	125.2	85.3	125.2
42		58.0	87.1	107.3	73.1	107.3
48		50.8	76.2	93.9	64.0	93.9
54		45.1	67.7	83.5	56.9	83.5
60		40.6	60.9	75.1	51.2	75.1
66		36.9	55.4	68.3	46.5	68.3
36	144	64.9	97.3	120.2	81.8	120.2
42		55.6	83.4	102.9	70.1	102.9
48		48.7	73.0	90.0	61.3	90.0
54		43.3	64.9	80.0	54.5	80.0
60		38.9	58.4	72.0	49.1	72.0
36	150	62.3	75.0	75.0	75.0	75.0
42		53.4	75.0	75.0	67.3	75.0
48		46.7	70.1	75.0	58.9	75.0
54		41.5	62.3	75.0	52.3	75.0
60		37.4	56.1	69.1	47.1	69.1
36	156	59.9	75.0	75.0	75.0	75.0
42		51.3	75.0	75.0	64.7	75.0
48		44.9	67.4	75.0	56.6	75.0
54		39.9	59.9	73.8	50.3	73.8
36	162	57.7	75.0	75.0	72.7	75.0
42		49.4	74.2	75.0	62.3	75.0
48		43.3	64.9	75.0	54.5	75.0
54		38.5	57.7	71.1	48.5	71.1
36	168	55.6	75.0	75.0	70.1	75.0
42		47.7	71.5	75.0	60.1	75.0
48		41.7	62.6	75.0	52.6	75.0
54		37.1	55.6	68.6	46.7	68.6

ANCHOR TYPES:
TYPE "A": 1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 3/4" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 2 3/4" MIN. O.C.

TYPE "AA": 1/4" DIA. ULTRACON+BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 1/2" MIN. EMBED INTO WOOD (SG=0.55 MIN.)
OR THRU 1X OR 2X WOOD BUCK INTO CONCRETE
W/ 1 3/4" MIN. EMBED INTO CONC.

A2 - (2) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
A3 - (3) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
A4 - (4) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB

AA2 - (2) TYPE "AA" ANCHORS AT EACH SIDE OF MULLION OR JAMB
AA3 - (3) TYPE "AA" ANCHORS AT EACH SIDE OF MULLION OR JAMB
AA4 - (4) TYPE "AA" ANCHORS AT EACH SIDE OF MULLION OR JAMB



ANCHOR THRU FRAME



http://www.trulite.com
403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

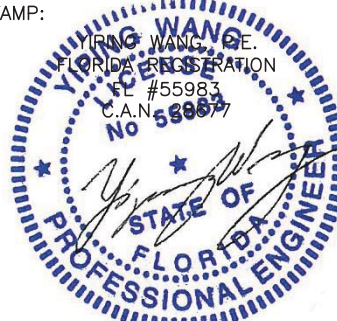
SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT



REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
P: (305) 271-0117
Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:

October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE: A1	
DRAWN: James	SHEET No:
DATE: 10.07.23	12 OF 23
DWG: AD23-42	

ANCHOR DESIGN LOAD CAPACITIES						
NOMINAL DIMENSIONS		ANCHOR TYPES				
		B2	B3	C2	C3	D4
MULLION WIDTH	FRAME HEIGHT	3/4" SHIM		1/4" SHIM		5/16" SHIM
(IN.)	(IN.)	DESIGN LOAD (PSF)				
36	78	150.0	150.0	150.0	150.0	150.0
42		137.5	150.0	150.0	150.0	150.0
48		120.3	150.0	140.9	150.0	150.0
54		106.9	147.7	125.3	147.7	147.7
60		96.2	132.9	112.7	132.9	132.9
66		87.5	120.8	102.5	120.8	120.8
72		80.2	110.8	93.9	110.8	110.8
36	84	149.0	150.0	150.0	150.0	150.0
42		127.7	150.0	149.6	150.0	150.0
48		111.7	150.0	130.9	150.0	150.0
54		99.3	137.1	116.3	137.1	137.1
60		89.4	123.4	104.7	123.4	123.4
66		81.2	112.2	95.2	112.2	112.2
72		74.5	102.9	87.2	102.9	102.9
36	90	139.0	150.0	150.0	150.0	150.0
42		119.2	150.0	139.6	150.0	150.0
48		104.3	144.0	122.1	144.0	144.0
54		92.7	128.0	108.6	128.0	128.0
60		83.4	115.2	97.7	115.2	115.2
66		75.8	104.7	88.8	104.7	104.7
72		69.5	96.0	81.4	96.0	96.0
36	96	130.3	150.0	150.0	150.0	150.0
42		111.7	150.0	130.9	150.0	150.0
48		97.8	135.0	114.5	135.0	135.0
54		86.9	120.0	101.8	120.0	120.0
60		78.2	108.0	91.6	108.0	108.0
66		71.1	98.2	83.3	98.2	98.2
72		65.2	90.0	76.3	90.0	90.0
42	102	105.1	145.2	123.2	145.2	145.2
48		92.0	127.1	107.8	127.1	127.1
54		81.8	112.9	95.8	112.9	112.9
60		73.6	101.6	86.2	101.6	101.6
66		66.9	92.4	78.4	92.4	92.4
72		61.3	84.7	71.8	84.7	84.7
36		108	115.9	150.0	135.7	150.0
42	99.3		137.1	116.3	137.1	137.1
48	86.9		120.0	101.8	120.0	120.0
54	77.2		106.7	90.5	106.7	106.7
60	69.5		96.0	81.4	96.0	96.0
66	63.2		87.3	74.4	87.3	87.3
72	57.9		80.0	67.9	80.0	80.0
36	114	109.8	150.0	128.6	150.0	150.0
42		94.1	129.9	110.2	129.9	129.9
48		82.3	113.7	96.4	113.7	113.7
54		73.2	101.1	85.7	101.1	101.1
60		65.9	90.9	77.1	90.9	90.9
66		59.9	82.7	70.1	82.7	82.7
72		54.9	75.8	64.3	75.8	75.8
36	120	104.3	144.0	122.1	144.0	144.0
42		89.4	123.4	104.7	123.4	123.4
48		78.2	108.0	91.6	108.0	108.0
54		69.5	96.0	81.4	96.0	96.0
60		62.6	86.4	73.3	86.4	86.4
66		56.9	78.5	66.6	78.5	78.5
72		52.1	72.0	61.1	72.0	72.0

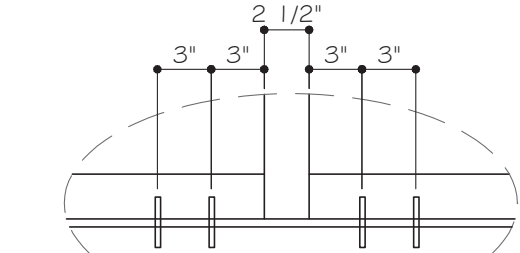
ANCHOR DESIGN LOAD CAPACITIES						
NOMINAL DIMENSIONS		ANCHOR TYPES				
		B2	B3	C2	C3	D4
MULLION WIDTH	FRAME HEIGHT	3/4" SHIM		1/4" SHIM		5/16" SHIM
(IN.)	(IN.)	DESIGN LOAD (PSF)				
36	126	99.3	137.1	116.3	137.1	137.1
42		85.1	117.6	99.7	117.6	117.6
48		74.5	102.9	87.2	102.9	102.9
54		66.2	91.4	77.5	91.4	91.4
60		59.6	82.3	69.8	82.3	82.3
66		54.2	74.8	63.4	74.8	74.8
72		49.7	68.6	58.2	68.6	68.6
36	132	94.8	130.9	111.0	130.9	130.9
42		81.2	112.2	95.2	112.2	112.2
48		71.1	98.2	83.3	98.2	98.2
54		63.2	87.3	74.0	87.3	87.3
60		56.9	78.5	66.6	78.5	78.5
66		51.7	71.4	60.6	71.4	71.4
36		138	90.7	125.2	106.2	125.2
42	77.7		107.3	91.0	107.3	107.3
48	68.0		93.9	79.7	93.9	93.9
54	60.4		83.5	70.8	83.5	83.5
60	54.4		75.1	63.7	75.1	75.1
66	49.5		68.3	57.9	68.3	68.3
36	144		86.9	120.2	101.8	120.2
42		74.5	102.9	87.2	102.9	102.9
48		65.2	90.0	76.3	90.0	90.0
54		57.9	80.0	67.9	80.0	80.0
60		52.1	72.0	61.1	72.0	72.0
36	150	75.0	75.0	75.0	75.0	75.0
42		71.5	75.0	75.0	75.0	75.0
48		62.6	75.0	73.3	75.0	75.0
54		55.6	75.0	65.1	75.0	75.0
60		50.0	69.1	58.6	69.1	69.1
36	156	75.0	75.0	75.0	75.0	75.0
42		68.7	75.0	75.0	75.0	75.0
48		60.2	75.0	70.5	75.0	75.0
54		53.5	73.8	62.6	73.8	73.8
36	162	75.0	75.0	75.0	75.0	75.0
42		66.2	75.0	75.0	75.0	75.0
48		57.9	75.0	67.9	75.0	75.0
54		51.5	71.1	60.3	71.1	71.1
36	168	74.5	75.0	75.0	75.0	75.0
42		63.8	75.0	74.8	75.0	75.0
48		55.9	75.0	65.4	75.0	75.0
54		49.7	68.6	58.2	68.6	68.6

ANCHOR TYPES:
TYPE "B": 5/16" DIA. ULTRACON BY DEWALT (Fu=177 KSI, Fy=155 KSI)
1 3/4" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 4 1/2" MIN. O.C.

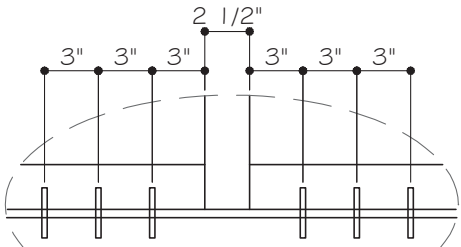
TYPE "C": 1/4" DIA. TEKS/SELF-DRILLING SCREW, GRADE 5 (Fu=100 KSI, Fy=65 KSI)
INTO 1/8" THK. MIN. METAL STRUCTURE (6063-T6 MIN.)

TYPE "D": 5/16" TEKS/SELF-DRILLING SCREW, GRADE 5 (Fu=120 KSI, Fy=92 KSI)
INTO 1/8" THK. MIN. METAL STRUCTURE (6063-T6 MIN.)

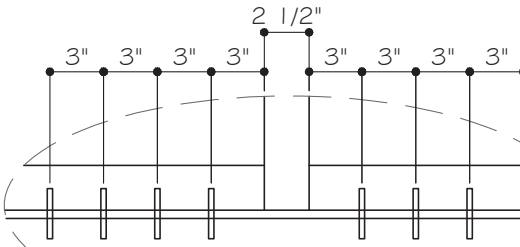
B2 - (2) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB
B3 - (3) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB
C2 - (2) TYPE "C" ANCHORS AT EACH SIDE OF MULLION OR JAMB
C3 - (3) TYPE "C" ANCHORS AT EACH SIDE OF MULLION OR JAMB
D4 - (4) TYPE "D" ANCHORS AT EACH SIDE OF MULLION OR JAMB



B2, C2



B3, C3



D4

ANCHOR THRU FRAME

PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT


PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:


MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
P: (305) 271-0117
Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:



October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

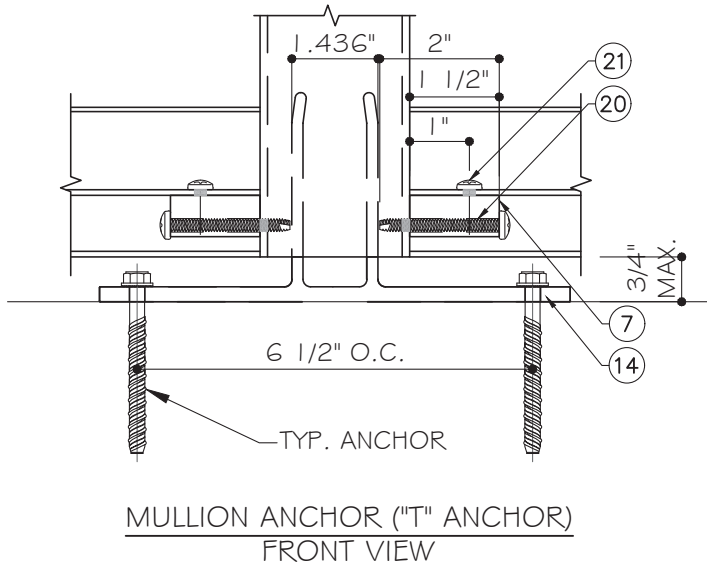
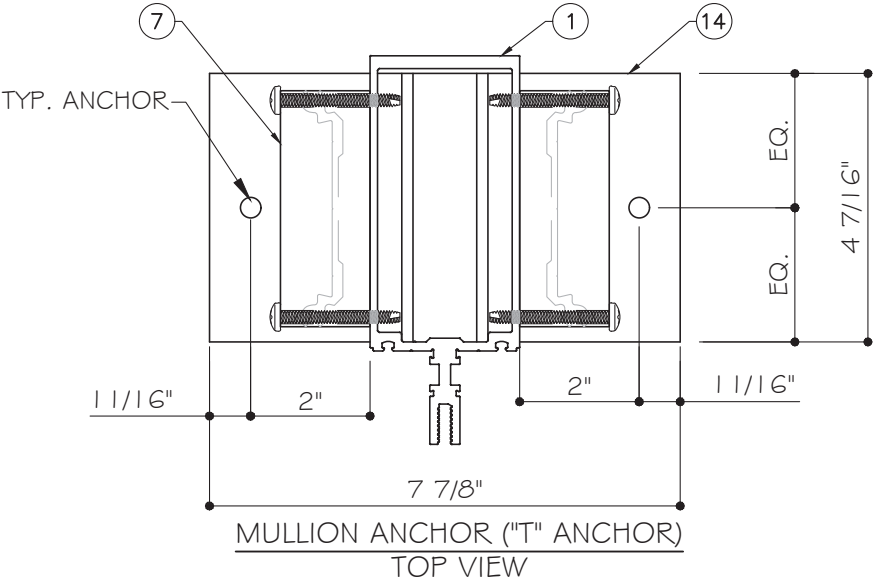
SHEET TITLE:

A2

DRAWN: James	SHEET No:
DATE: 10.07.23	13 OF 23
DWG: AD23-42	

ANCHOR DESIGN LOAD CAPACITIES				
NOMINAL DIMENSIONS		ANCHOR TYPES		
MULLION WIDTH (IN.)	FRAME HEIGHT (IN.)	B	E	F
DESIGN LOAD (PSF)				
36	78	142.8	150.0	150.0
42		122.4	150.0	150.0
48		107.1	141.7	150.0
54		95.2	125.9	150.0
60		85.7	113.4	144.2
66		77.9	103.0	131.0
72	84	71.4	94.5	120.2
36		132.6	150.0	150.0
42		113.6	150.0	150.0
48		99.4	131.6	150.0
54		88.4	117.0	148.8
60		79.5	105.3	133.9
66	90	72.3	95.7	121.8
72		66.3	87.7	111.6
36		123.7	150.0	150.0
42		106.1	140.3	150.0
48		92.8	122.8	150.0
54		82.5	109.2	138.9
60	96	74.2	98.2	125.0
66		67.5	89.3	113.6
72		61.9	81.9	104.2
36		116.0	150.0	150.0
42		99.4	131.6	150.0
48		87.0	115.1	146.5
54	102	77.3	102.3	130.2
60		69.6	92.1	117.2
66		63.3	83.7	106.5
72		58.0	76.8	97.7
42		93.6	123.8	150.0
48		81.9	108.4	137.9
54	108	72.8	96.3	122.6
60		65.5	86.7	110.3
66		59.6	78.8	100.3
72		54.6	72.2	91.9
36		103.1	136.4	150.0
42		88.4	117.0	148.8
48	114	77.3	102.3	130.2
54		68.7	91.0	115.8
60		61.9	81.9	104.2
66		56.2	74.4	94.7
72		51.6	68.2	86.8
36		97.7	129.3	150.0
42	120	83.7	110.8	141.0
48		73.3	96.9	123.4
54		65.1	86.2	109.7
60		58.6	77.6	98.7
66		53.3	70.5	89.7
72		48.8	64.6	82.2
36		92.8	122.8	150.0
42		79.5	105.3	133.9
48		69.6	92.1	117.2
54		61.6	81.9	104.2
60		55.7	73.7	93.8
66		50.6	67.0	85.2
72		46.4	61.4	78.1

ANCHOR DESIGN LOAD CAPACITIES				
NOMINAL DIMENSIONS		ANCHOR TYPES		
MULLION WIDTH (IN.)	FRAME HEIGHT (IN.)	B	E	F
DESIGN LOAD (PSF)				
36	126	88.4	117.0	148.8
42		75.8	100.2	127.6
48		66.3	87.7	111.6
54		58.9	78.0	99.2
60		53.0	70.2	89.3
66		48.2	63.8	81.2
72	132	44.2	58.5	74.4
36		84.4	111.6	142.1
42		72.3	95.7	121.8
48		63.3	83.7	106.5
54		56.2	74.4	94.7
60		50.6	67.0	85.2
66	138	46.0	60.9	77.5
36		80.7	106.8	135.9
42		69.2	91.5	116.5
48		60.5	80.1	101.9
54		53.8	71.2	90.6
60		48.4	64.1	81.5
66	144	44.0	58.2	74.1
36		77.3	102.3	130.2
42		66.3	87.7	111.6
48		58.0	76.8	97.7
54		51.6	68.2	86.8
60		46.4	61.4	78.1
36	150	74.2	75.0	75.0
42		63.6	75.0	75.0
48		55.7	73.7	75.0
54		49.5	65.5	75.0
60		44.5	58.9	75.0
36	156	71.4	75.0	75.0
42		61.2	75.0	75.0
48		53.5	70.8	75.0
54		47.6	63.0	75.0
36	162	68.7	75.0	75.0
42		58.9	75.0	75.0
48		51.6	68.2	75.0
54		45.8	60.6	75.0
36	168	66.3	75.0	75.0
42		56.8	75.0	75.0
48		49.7	65.8	75.0
54		44.2	58.5	74.4



ANCHOR TYPES (FOR "T" ANCHOR):

TYPE "B": 5/16" DIA. ULTRACON BY DEWALT (Fu= 177 KSI, Fy= 155 KSI)
1 3/4" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE, 6 1/2" MIN. O.C.

TYPE "E": 3/8" DIA. POWERS WEDGE BOLTS (Fu= 120 KSI, Fy=92 KSI)
3" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
4" MIN. EDGE DISTANCE, 6 1/2" MIN. O.C.

TYPE "F": 5/16" TEKS/SELF-DRILLING SCREW, GRADE 5 (Fu= 120 KSI, Fy=92 KSI)
INTO 3/16" MIN THK ALUM. (6063-T6 MIN.) OR
1/8" THK. MIN. STEEL STRUCTURE

PRODUCT:

**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**


PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:


MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PWY. STE. 301
MIRAMAR, FL. 33027
P: (305) 271-0117
Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:



October 07th, 2023

FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

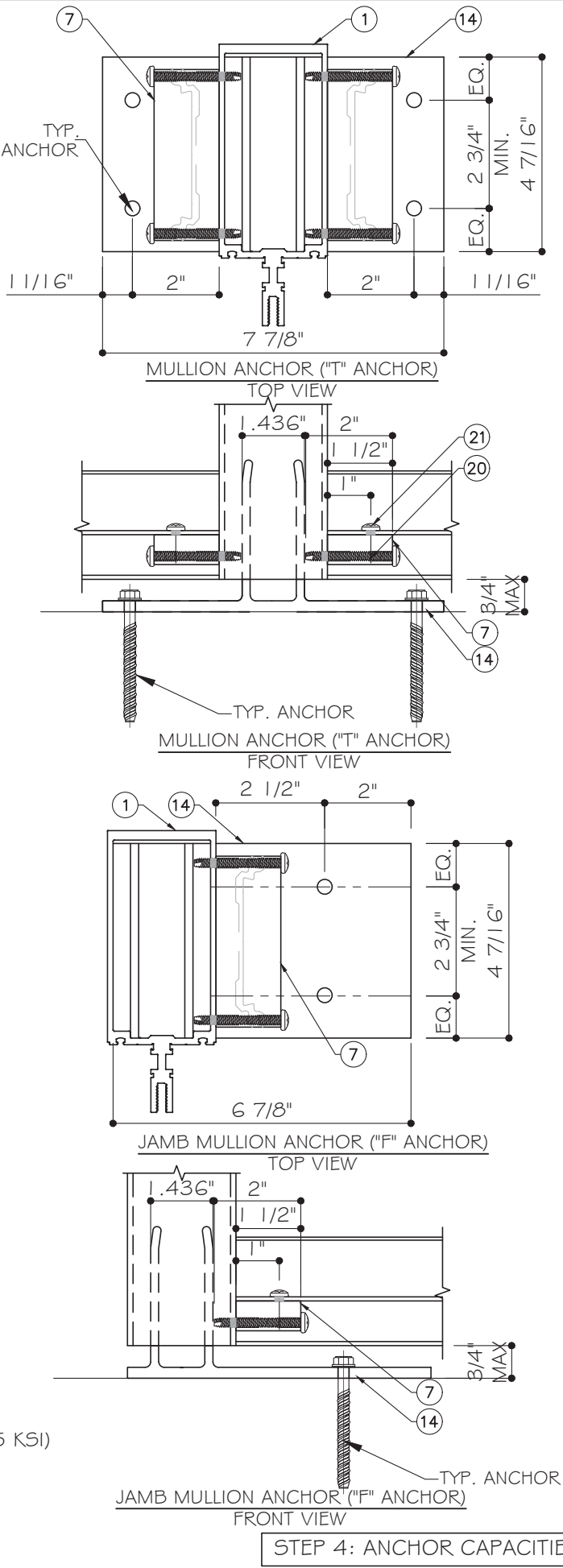
A3

DRAWN: James	SHEET No:
DATE: 10.07.23	14 OF 23
DWG: AD23-42	

ANCHOR DESIGN LOAD CAPACITIES					
NOMINAL DIMENSIONS		ANCHOR TYPES			
MULLION WIDTH	FRAME HEIGHT	AA OR A	B	E	C
(IN.)	(IN.)	DESIGN LOAD (PSF)			
36	78	146.9	150.0	150.0	150.0
42		125.9	150.0	150.0	150.0
48		110.2	150.0	150.0	150.0
54		97.9	150.0	150.0	150.0
60		88.1	141.4	137.6	150.0
66		80.1	128.6	125.1	139.9
72	84	73.4	117.8	114.7	128.2
36		136.4	150.0	150.0	150.0
42		116.9	150.0	150.0	150.0
48		102.3	150.0	150.0	150.0
54		90.9	145.9	142.0	150.0
60		81.8	131.3	127.8	142.9
66	90	74.4	119.4	116.2	129.9
72		68.2	109.4	106.5	119.0
36		127.3	150.0	150.0	150.0
42		109.1	150.0	150.0	150.0
48		95.5	150.0	149.1	150.0
54		84.9	136.2	132.5	148.1
60	96	76.4	122.6	119.3	133.3
66		69.4	111.4	108.4	121.2
72		63.6	102.1	99.4	111.1
36		119.3	150.0	150.0	150.0
42		102.3	150.0	150.0	150.0
48		89.5	143.6	139.8	150.0
54	102	79.6	127.7	124.2	138.9
60		71.6	114.9	111.8	125.0
66		65.1	104.5	101.6	113.6
72		59.7	95.8	93.2	104.2
42	108	96.3	150.0	150.0	150.0
48		84.2	135.2	131.5	147.1
54		74.9	120.2	116.9	130.7
60		67.4	108.1	105.2	117.6
66		61.3	98.3	95.7	107.0
72		56.2	90.1	87.7	98.0
36	114	106.1	150.0	150.0	150.0
42		90.9	145.9	142.0	150.0
48		79.6	127.7	124.2	138.9
54		70.7	113.5	110.4	123.5
60		63.6	102.1	99.4	111.1
66		57.9	92.8	90.3	101.0
72	120	53.0	85.1	82.8	92.6
36		100.5	150.0	150.0	150.0
42		86.1	138.2	134.5	150.0
48		75.4	120.9	117.7	131.6
54		67.0	107.5	104.6	117.0
60		60.3	96.8	94.1	105.3
66	126	54.8	88.0	85.6	95.7
72		50.2	80.6	78.5	87.7
36		95.5	150.0	149.1	150.0
42		81.8	131.3	127.8	142.9
48		71.6	114.9	111.8	125.0
54		63.6	102.1	99.4	111.1
60	132	57.3	91.9	89.4	100.0
66		52.1	83.6	81.3	90.9
72		47.7	76.6	74.5	83.3
36		86.8	139.3	135.5	150.0
42		74.4	119.4	116.2	129.9
48		65.1	104.5	101.6	113.6
54	138	57.9	92.8	90.3	101.0
60		52.1	83.6	81.3	90.9
66		47.3	76.0	73.9	82.6
36		83.0	133.2	129.6	144.9
42		71.2	114.2	111.1	124.2
48		62.3	99.9	97.2	108.7
54	144	55.3	88.8	86.4	96.6
60		49.8	79.9	77.8	87.0
66		45.3	72.7	70.7	79.1
36		79.6	127.7	124.2	138.9
42		68.2	109.4	106.5	119.0
48		59.7	95.8	93.2	104.2
54	150	53.0	85.1	82.8	92.6
60		47.7	76.6	74.5	83.3
36		75.0	75.0	75.0	75.0
42		65.5	75.0	75.0	75.0
48		57.3	75.0	75.0	75.0
54		50.9	75.0	75.0	75.0
60	156	45.8	73.5	71.6	75.0
36		73.4	75.0	75.0	75.0
42		62.9	75.0	75.0	75.0
48		55.1	75.0	75.0	75.0
54		49.0	75.0	75.0	75.0
60		43.0	75.0	75.0	75.0
36	162	70.7	75.0	75.0	75.0
42		60.6	75.0	75.0	75.0
48		53.0	75.0	75.0	75.0
54		47.1	75.0	73.6	75.0
60		41.0	75.0	75.0	75.0
66		35.0	75.0	75.0	75.0
36	168	68.2	75.0	75.0	75.0
42		58.4	75.0	75.0	75.0
48		51.1	75.0	75.0	75.0
54		45.5	73.0	71.0	75.0
60		39.5	75.0	75.0	75.0
66		33.5	75.0	75.0	75.0

ANCHOR DESIGN LOAD CAPACITIES					
NOMINAL DIMENSIONS		ANCHOR TYPES			
MULLION WIDTH	FRAME HEIGHT	AA OR A	B	E	C
(IN.)	(IN.)	DESIGN LOAD (PSF)			
36	126	90.9	145.9	142.0	150.0
42		77.9	125.1	121.7	136.1
48		68.2	109.4	106.5	119.0
54		60.6	97.3	94.6	105.8
60		54.6	87.5	85.2	95.2
66		49.6	79.6	77.4	86.6
72	132	45.5	73.0	71.0	79.4
36		86.8	139.3	135.5	150.0
42		74.4	119.4	116.2	129.9
48		65.1	104.5	101.6	113.6
54		57.9	92.8	90.3	101.0
60		52.1	83.6	81.3	90.9
66	138	47.3	76.0	73.9	82.6
36		83.0	133.2	129.6	144.9
42		71.2	114.2	111.1	124.2
48		62.3	99.9	97.2	108.7
54		55.3	88.8	86.4	96.6
60		49.8	79.9	77.8	87.0
66	144	45.3	72.7	70.7	79.1
36		79.6	127.7	124.2	138.9
42		68.2	109.4	106.5	119.0
48		59.7	95.8	93.2	104.2
54		53.0	85.1	82.8	92.6
60		47.7	76.6	74.5	83.3
36	150	75.0	75.0	75.0	75.0
42		65.5	75.0	75.0	75.0
48		57.3	75.0	75.0	75.0
54		50.9	75.0	75.0	75.0
60		45.8	73.5	71.6	75.0
66	156	73.4	75.0	75.0	75.0
42		62.9	75.0	75.0	75.0
48		55.1	75.0	75.0	75.0
54		49.0	75.0	75.0	75.0
60		43.0	75.0	75.0	75.0
66	162	70.7	75.0	75.0	75.0
42		60.6	75.0	75.0	75.0
48		53.0	75.0	75.0	75.0
54		47.1	75.0	73.6	75.0
60		41.0	75.0	75.0	75.0
66	168	35.0	75.0	75.0	75.0
36		68.2	75.0	75.0	75.0
42		58.4	75.0	75.0	75.0
48		51.1	75.0	75.0	75.0
54		45.5	73.0	71.0	75.0
60		39.5	75.0	75.0	75.0
66		33.5	75.0	75.0	75.0

- ANCHOR TYPES:
- TYPE "AA": 1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 1/2" MIN. EMBED INTO WOOD (SG=0.55 MIN.)
OR THRU 1X OR 2X WOOD BUCK INTO CONCRETE
W/ 1 3/4" MIN. EMBED INTO CONC.
- TYPE "A": 1/4" DIA. ULTRACON+ (Fu=164 KSI, Fy=148 KSI)
1 3/4" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE
- TYPE "B": 5/16" DIA. ULTRACON (Fu=177 KSI, Fy=155 KSI)
1 3/4" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
- TYPE "C": 1/4" DIA. TEKS/SELF-DRILLING SCREW, GRADE 5 (Fu=100 KSI, Fy=65 KSI)
INTO 1/8" THK. MIN. METAL STRUCTURE (GOG3-T6 MIN.)
- TYPE "E": 3/8" DIA. POWERS WEDGE BOLTS (Fu=120 KSI, Fy=92 KSI)
3" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE, 6 1/2" MIN. O.C.



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PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT



REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

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MIRAMAR, FL. 33027
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Email: MCY@mcyengineering.com
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STAMP:

YOUNG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. No 55983

October 07th, 2023

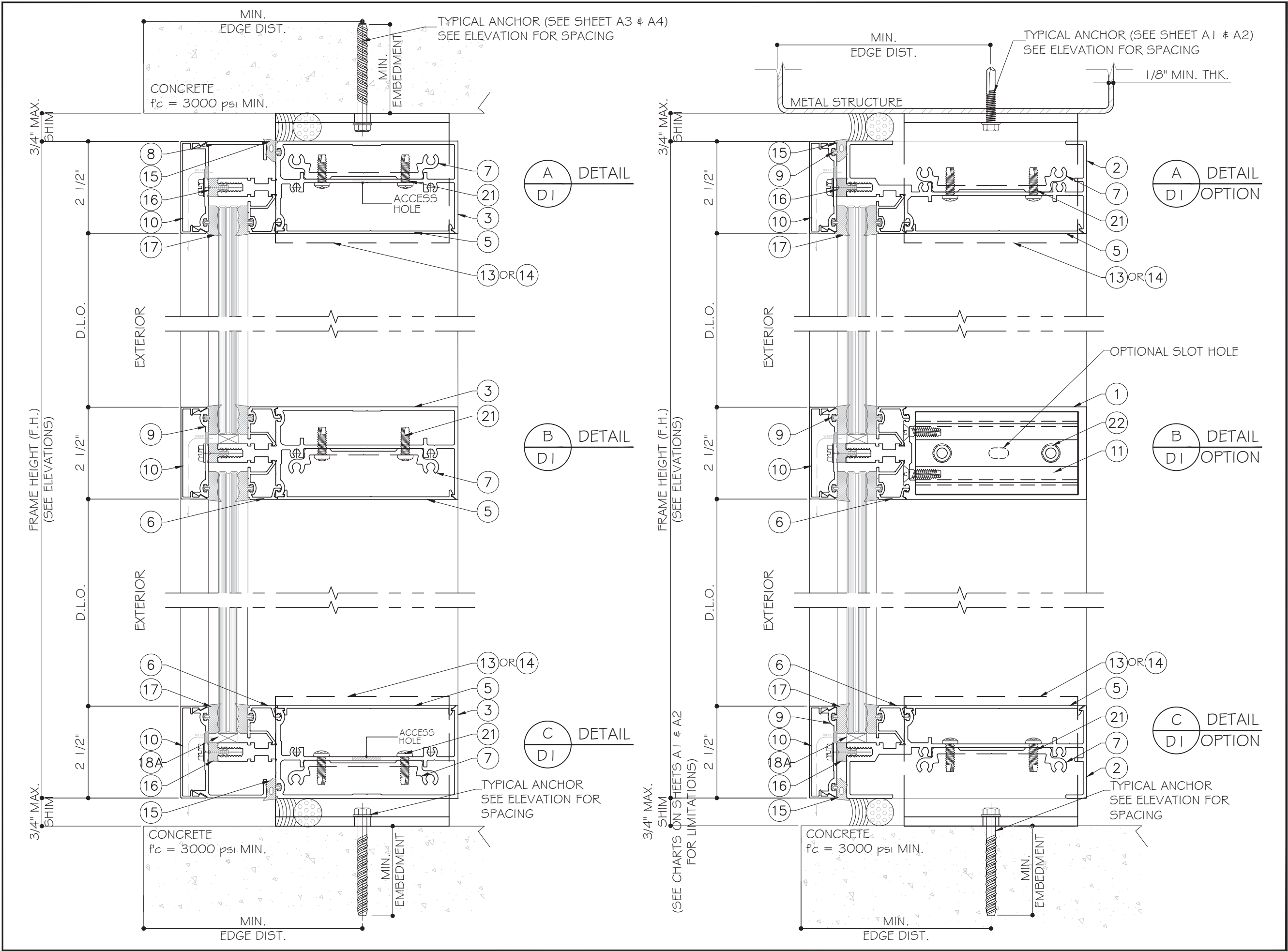
FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

A4

DRAWN: James	SHEET No:
DATE: 10.07.23	15 OF 23
DWG: AD23-42	



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PRODUCT:
**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

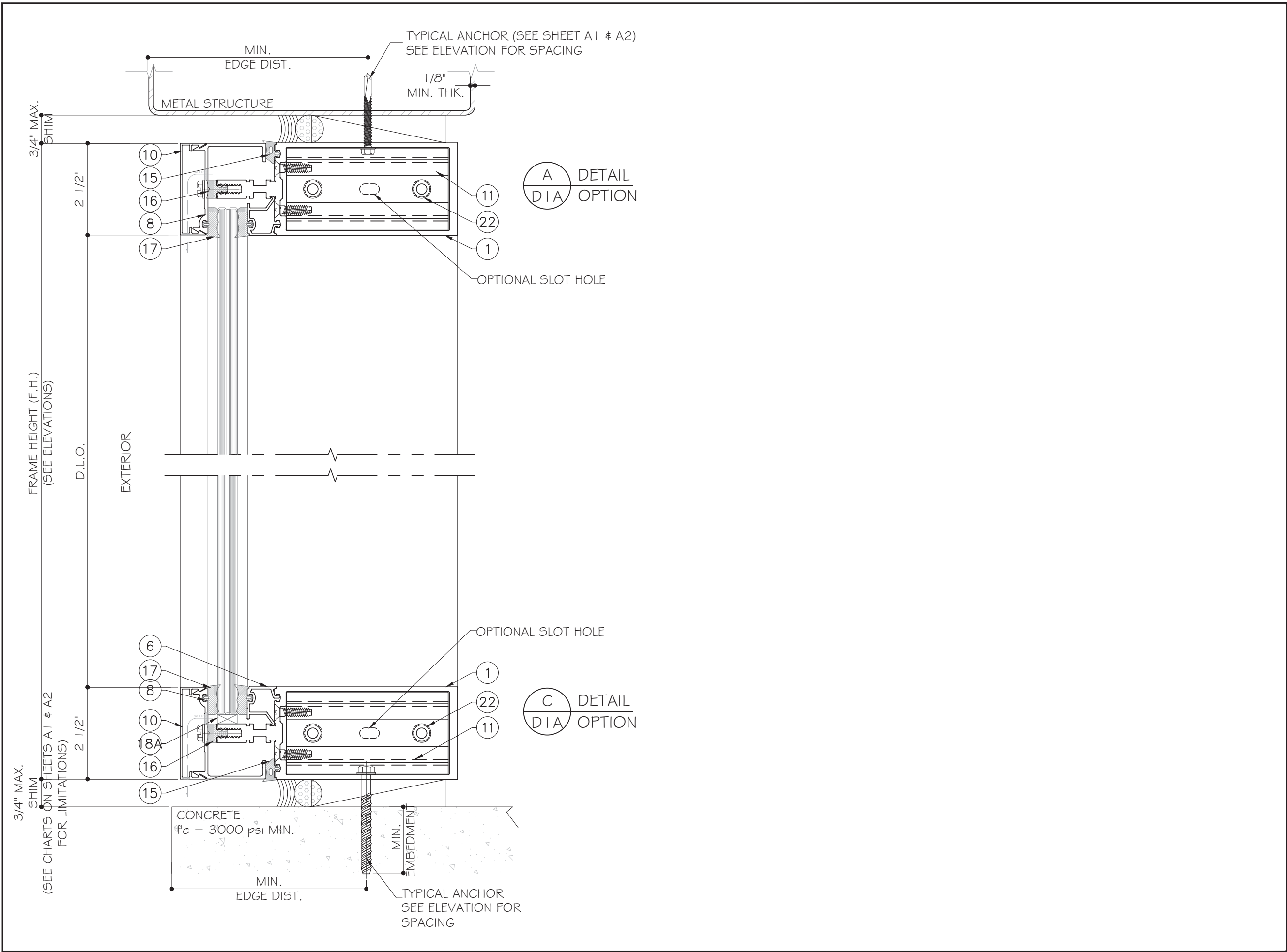
ENGINEER:
MCY ENGINEERING, INC.
GLAZING CONSULTANT
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Email: MCY@mcyengineering.com
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STAMP:
YOUNG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
October 07th, 2023

FLORIDA APPROVAL:
FL #42495.2

SHEET TITLE:
D1

DRAWN: James	SHEET No:
DATE: 10.07.23	16 OF 23
DWG: AD23-42	



PRODUCT:

**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:



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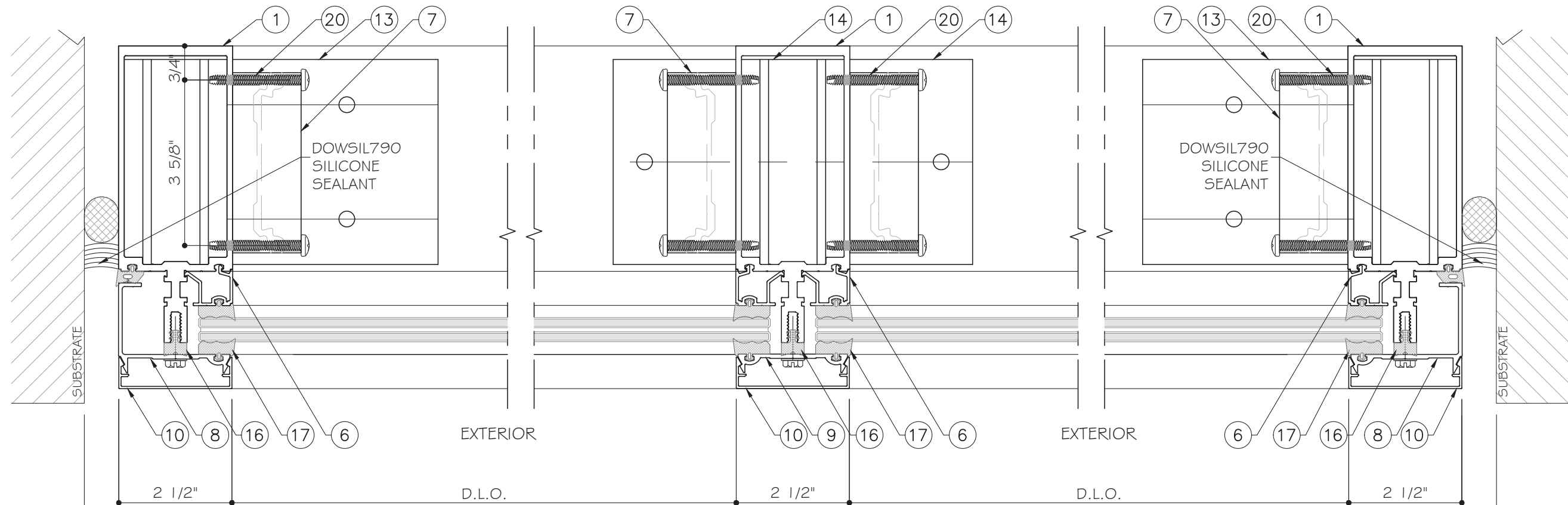
FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

D1A

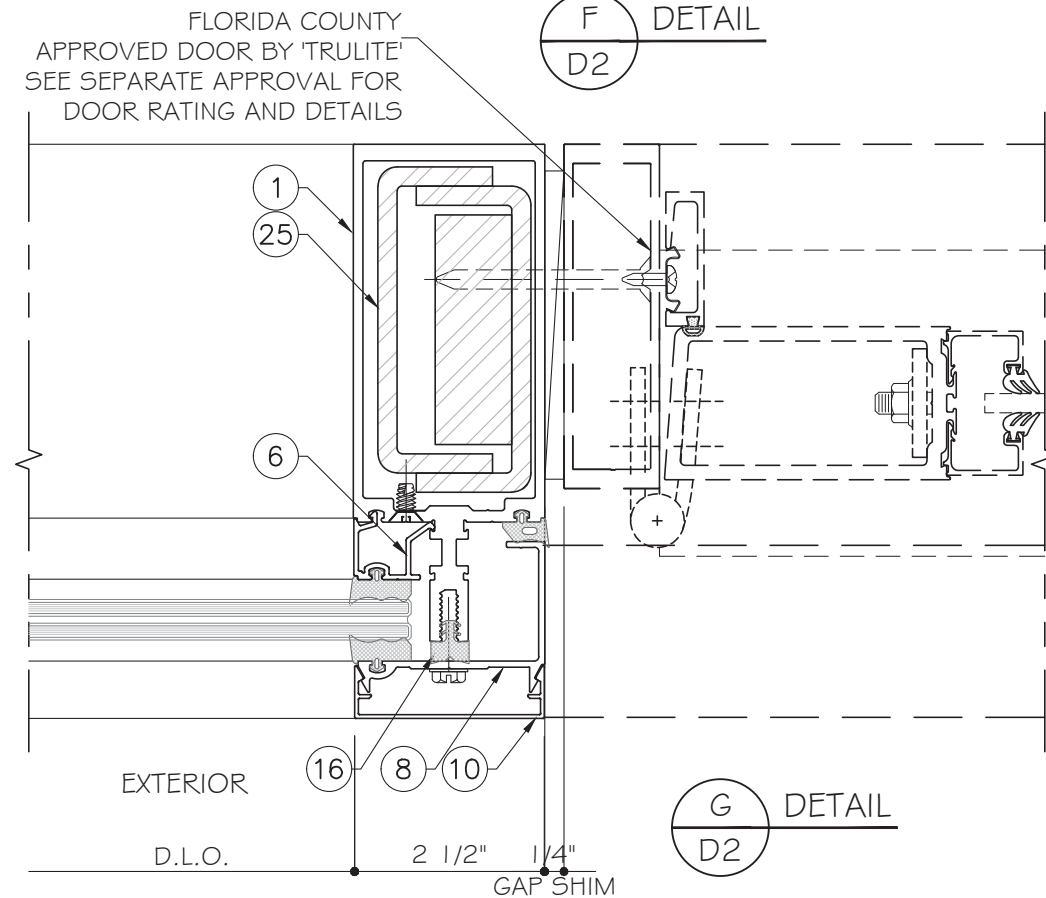
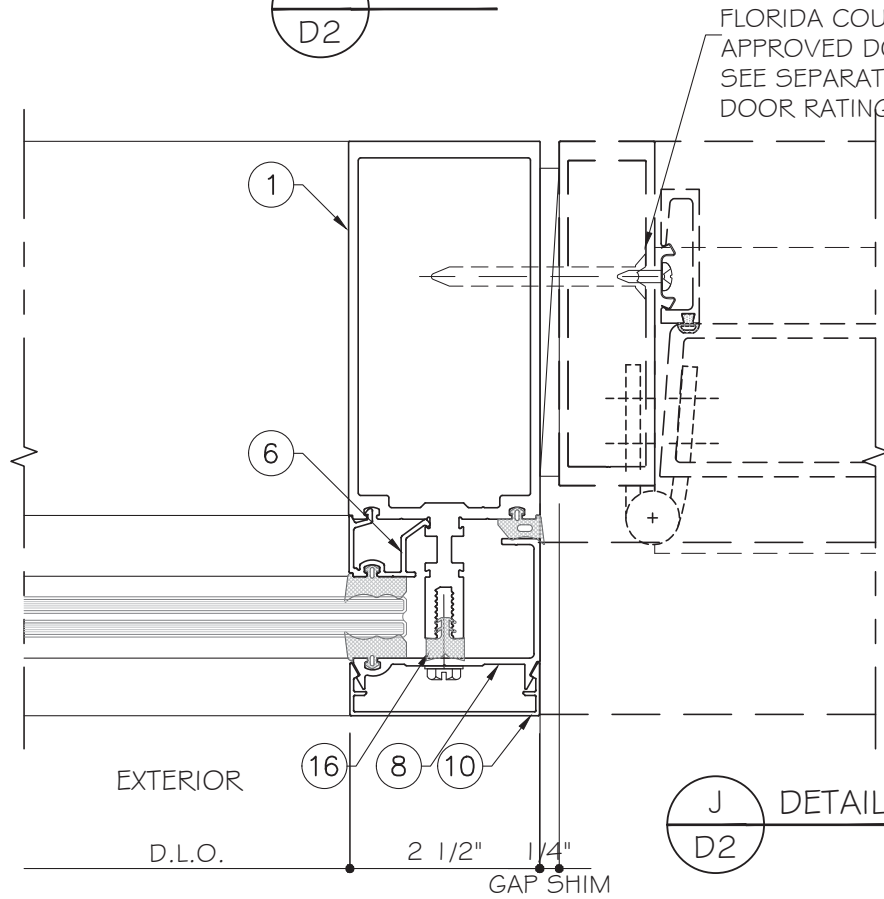
DRAWN: James	SHEET No:
DATE: 10.07.23	17 OF 23
DWG: AD23-42	



D DETAIL
D2

E DETAIL
D2

F DETAIL
D2



MAX. FRAME WIDTH	MAX. GAP AT EACH SIDE
30 FT.	1-1/8"
≥ 60 FT.	1-1/8"

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
96"	5/16"	1-1/8"
108"	5/16"	1-1/8"
120"	3/8"	1-1/8"
132"	3/8"	1-1/8"
144"	3/8"	1-1/8"
156"	1/2"	1-1/8"
168"	1/2"	1-1/8"

NOTE:
MULLIONS SHOWN IN DASHED LINES ARE NOT PART OF THIS APPROVAL.

J DETAIL
D2

G DETAIL
D2



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PRODUCT:

SB751 IMPACT CURTAIN WALL
SMALL MISSILE IMPACT



REVN	DATE/REMARKS
R0	NEW APPLICATION

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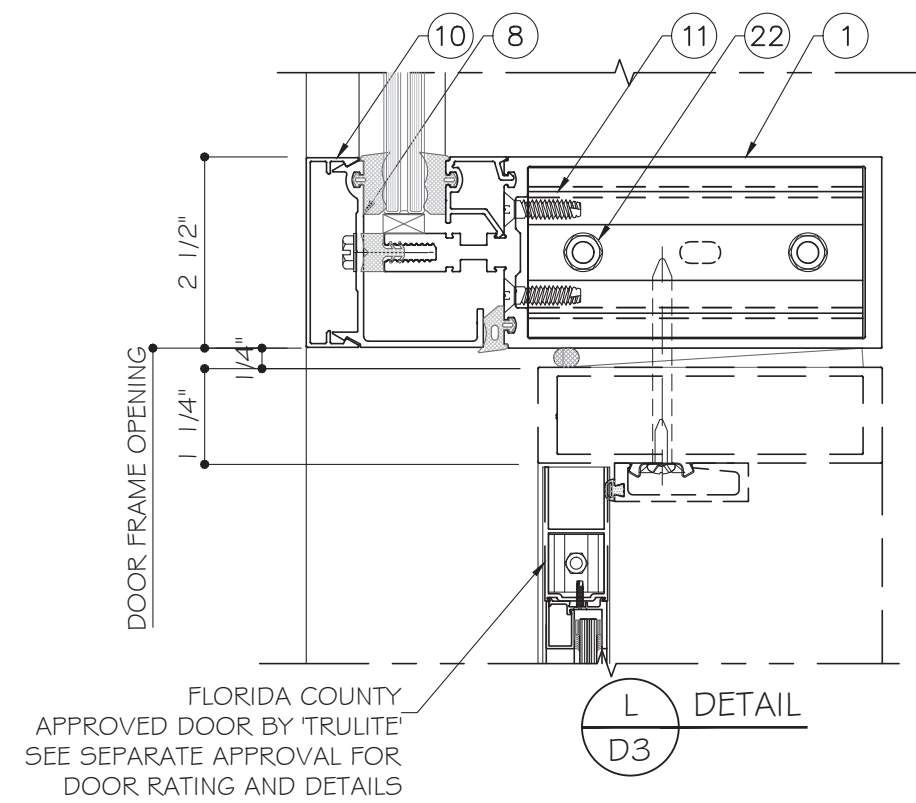
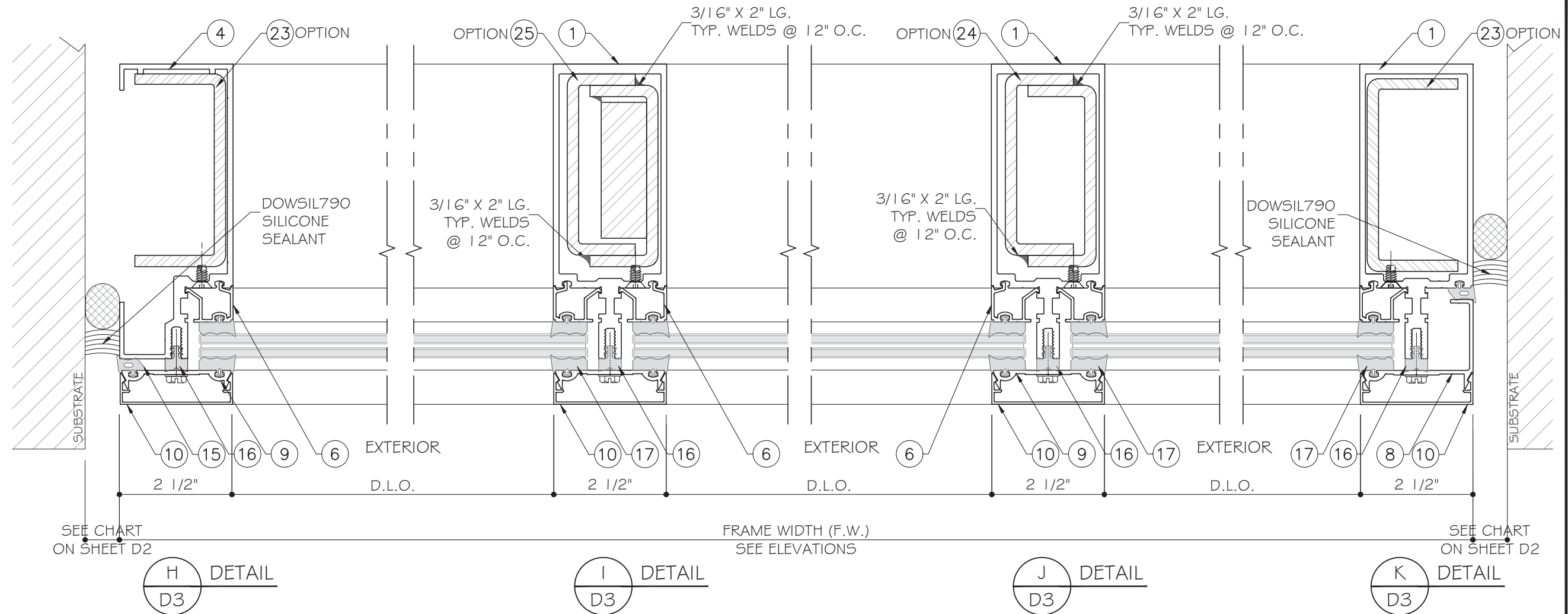
FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

D2

DRAWN: James	SHEET No:
DATE: 10.07.23	18 OF 23
DWG: AD23-42	





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PRODUCT:

**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**


PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

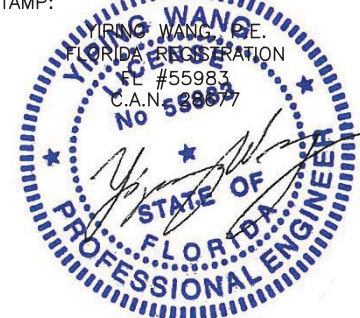
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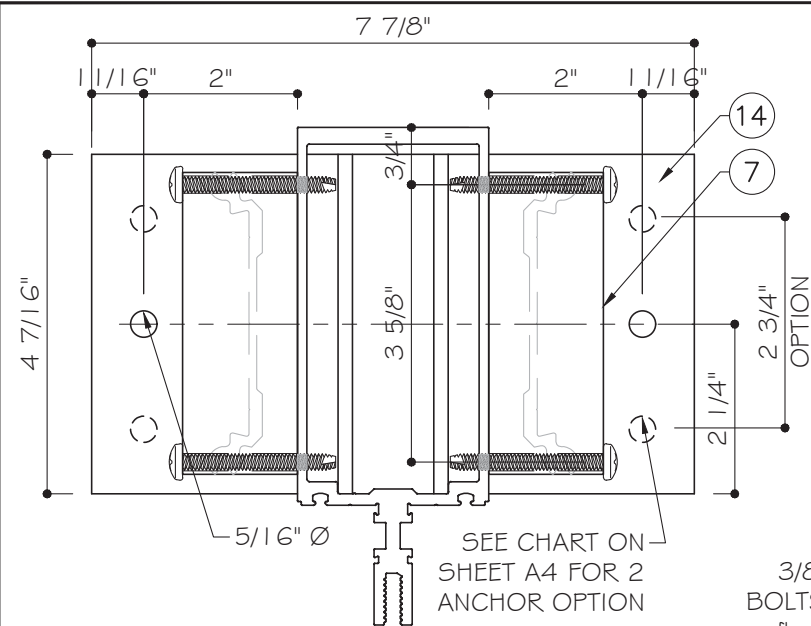
FLORIDA APPROVAL:

FL #42495.2

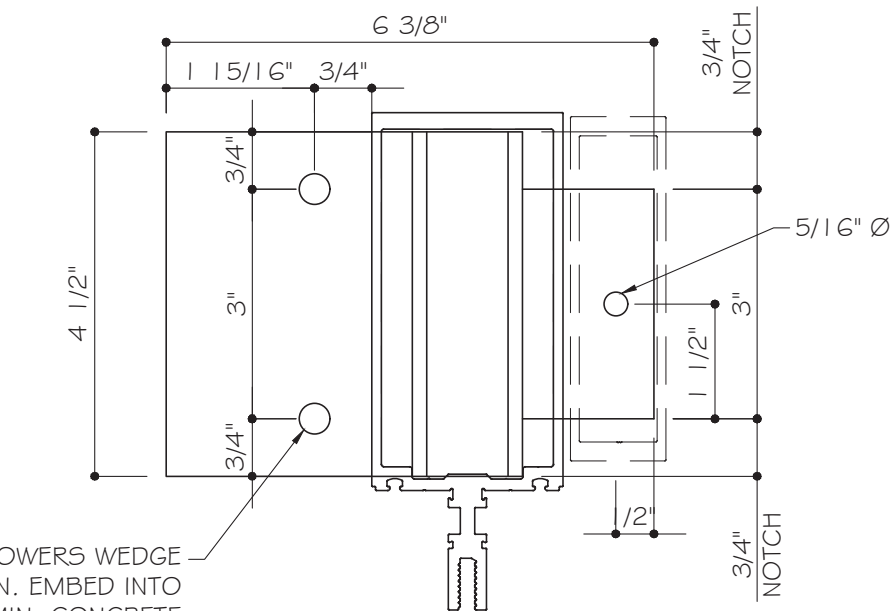
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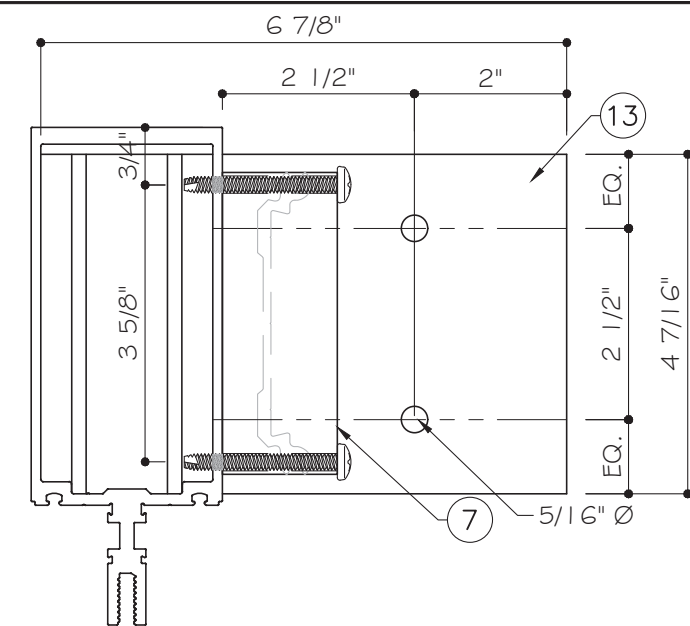
DRAWN: James	SHEET No:
DATE: 10.07.23	19 OF 23
DWG: AD23-42	



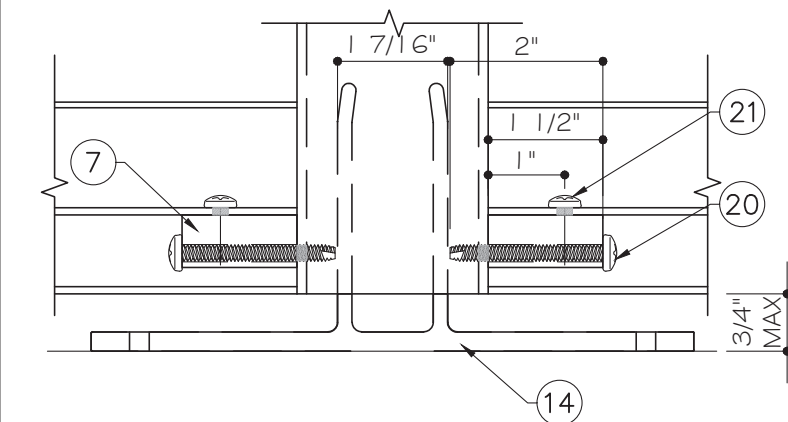
MULLION ANCHOR ("T" ANCHOR)
TOP VIEW



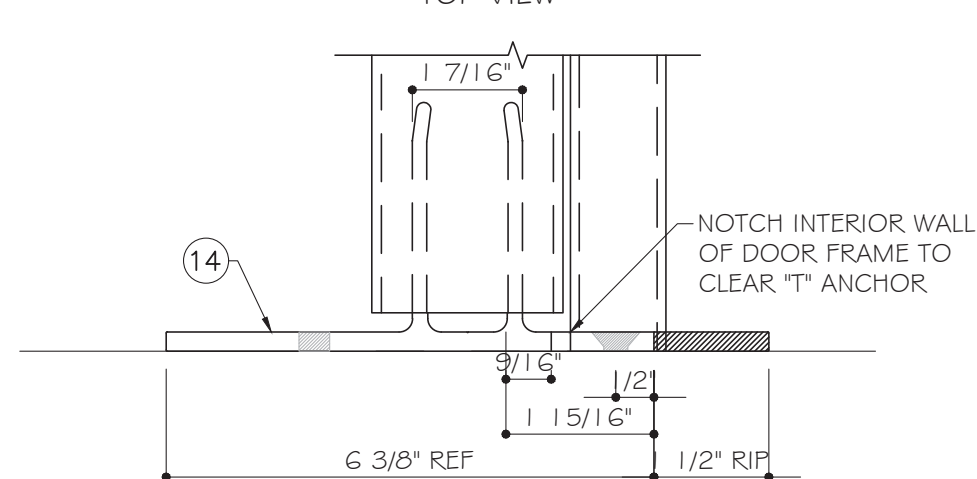
DOOR JAMB ANCHOR ("T" ANCHOR)
TOP VIEW



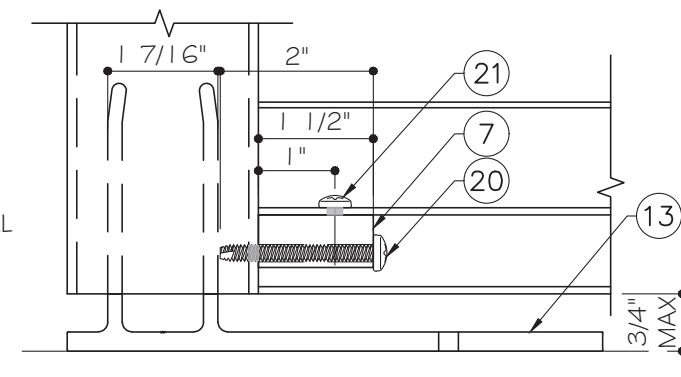
JAMB ANCHOR ("F" ANCHOR)
TOP VIEW



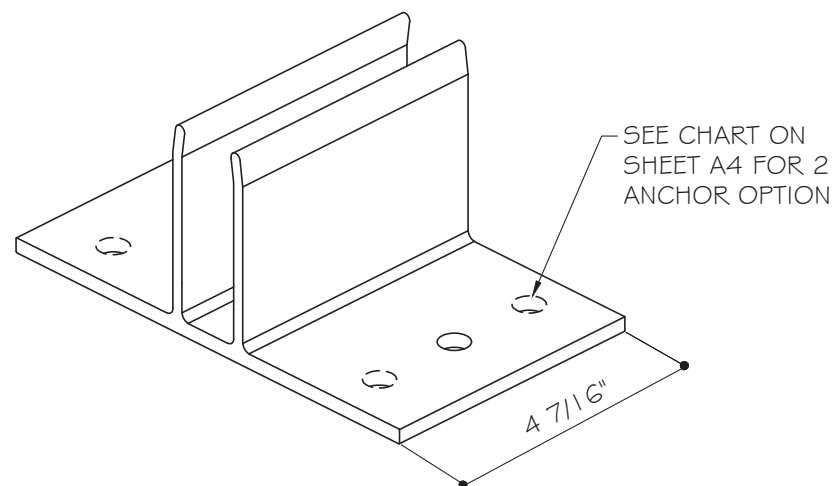
MULLION ANCHOR ("T" ANCHOR)
FRONT VIEW



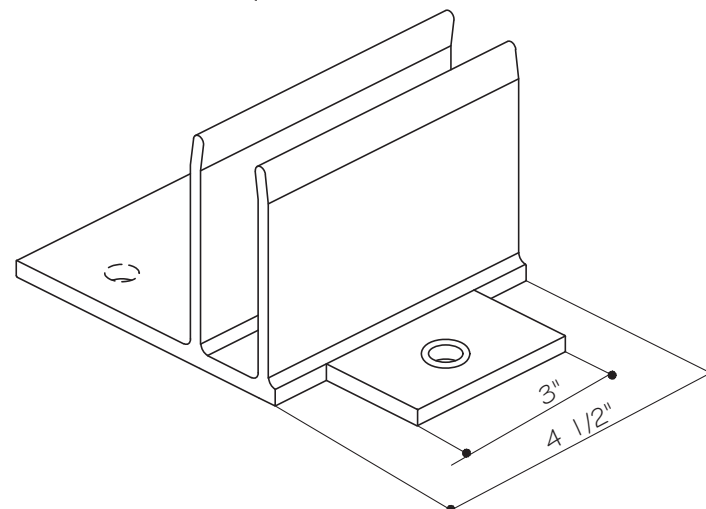
MULLION ANCHOR ("T" ANCHOR)
FRONT VIEW



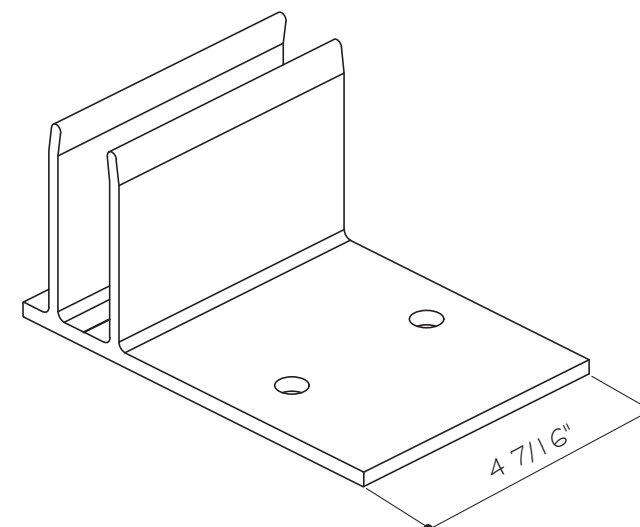
JAMB ANCHOR ("F" ANCHOR)
FRONT VIEW



MULLION ANCHOR ("T" ANCHOR)
3D VIEW



DOOR JAMB ANCHOR ("T" ANCHOR)
3D VIEW



JAMB ANCHOR ("F" ANCHOR)
3D VIEW

1
D4
DETAIL

2
D4
DETAIL

3
D4
DETAIL

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PRODUCT:

**SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT**

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:

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FL #42495.2

SHEET TITLE:

D4

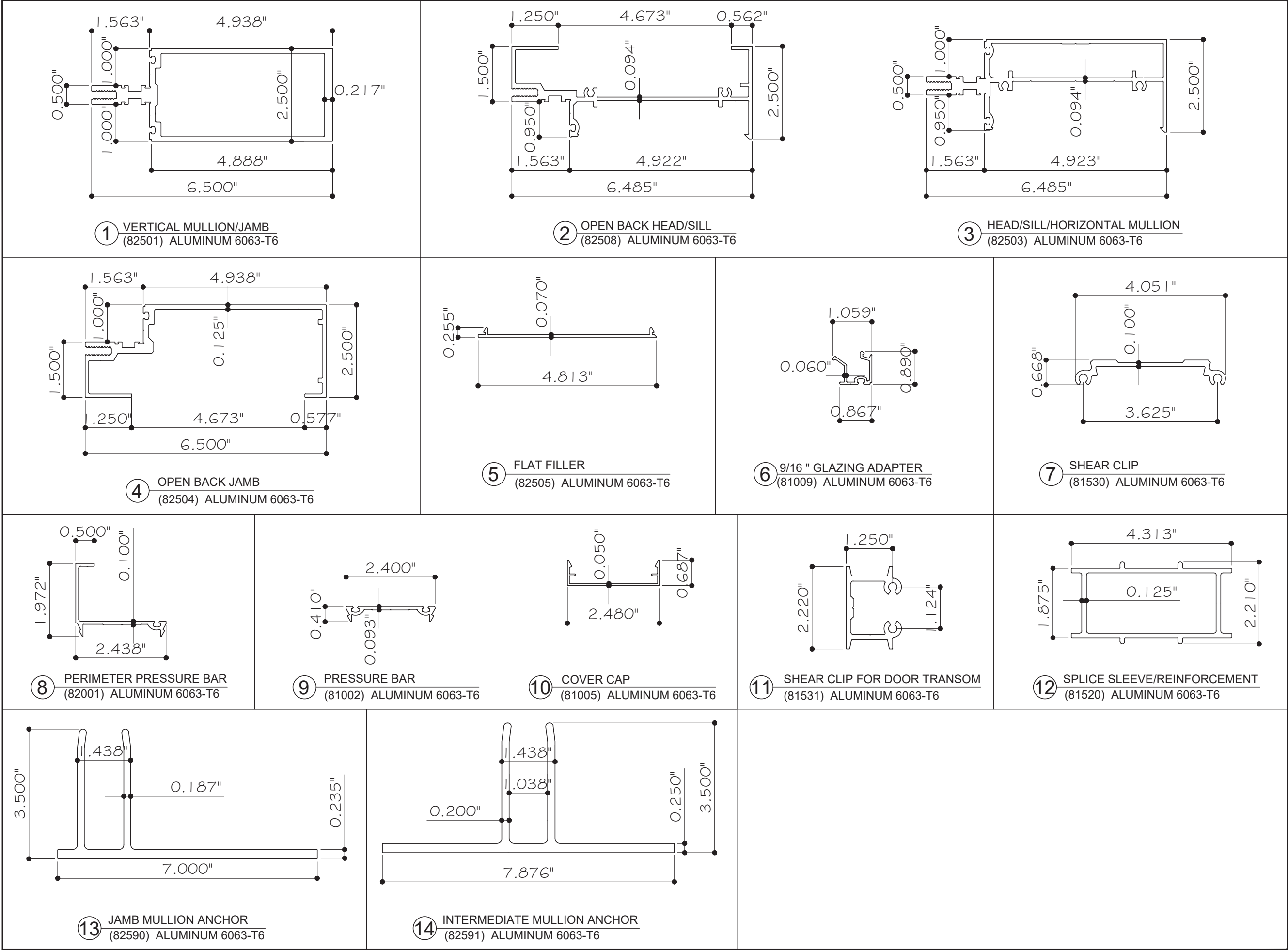
DRAWN: James

DATE: 10.07.23

DWG: AD23-42

SHEET No:

20 OF 23



PRODUCT:

SB751 IMPACT
CURTAIN WALL
SMALL MISSILE IMPACT

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
R0	NEW APPLICATION

ENGINEER:



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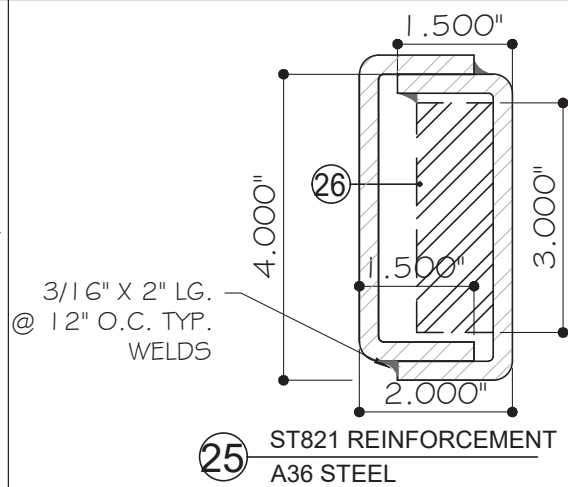
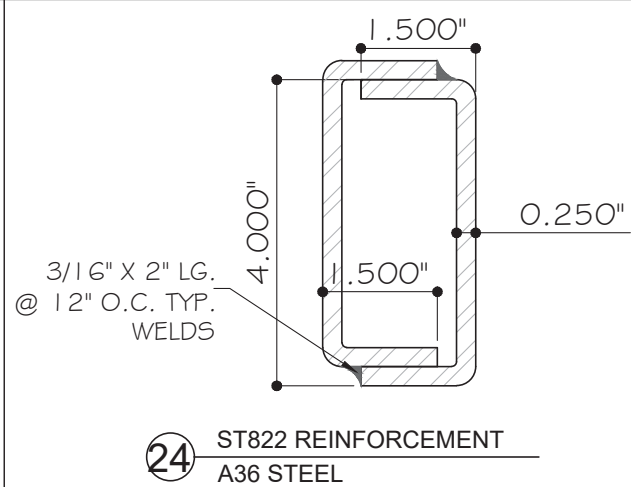
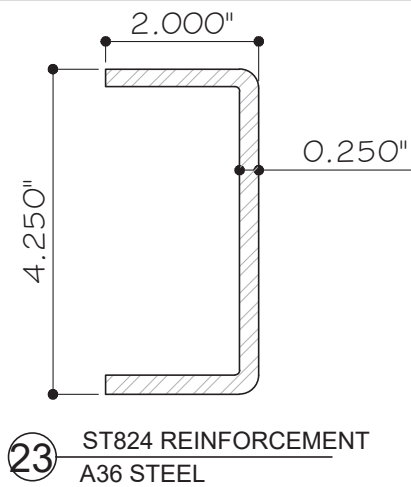
FLORIDA APPROVAL:

FL #42495.2

SHEET TITLE:

PARTS

DRAWN: James	SHEET No:
DATE: 10.07.23	21 OF 23
DWG: AD23-42	





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CURTAIN WALL**

SMALL MISSILE IMPACT



REVN	DATE/REMARKS
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FLORIDA APPROVAL:

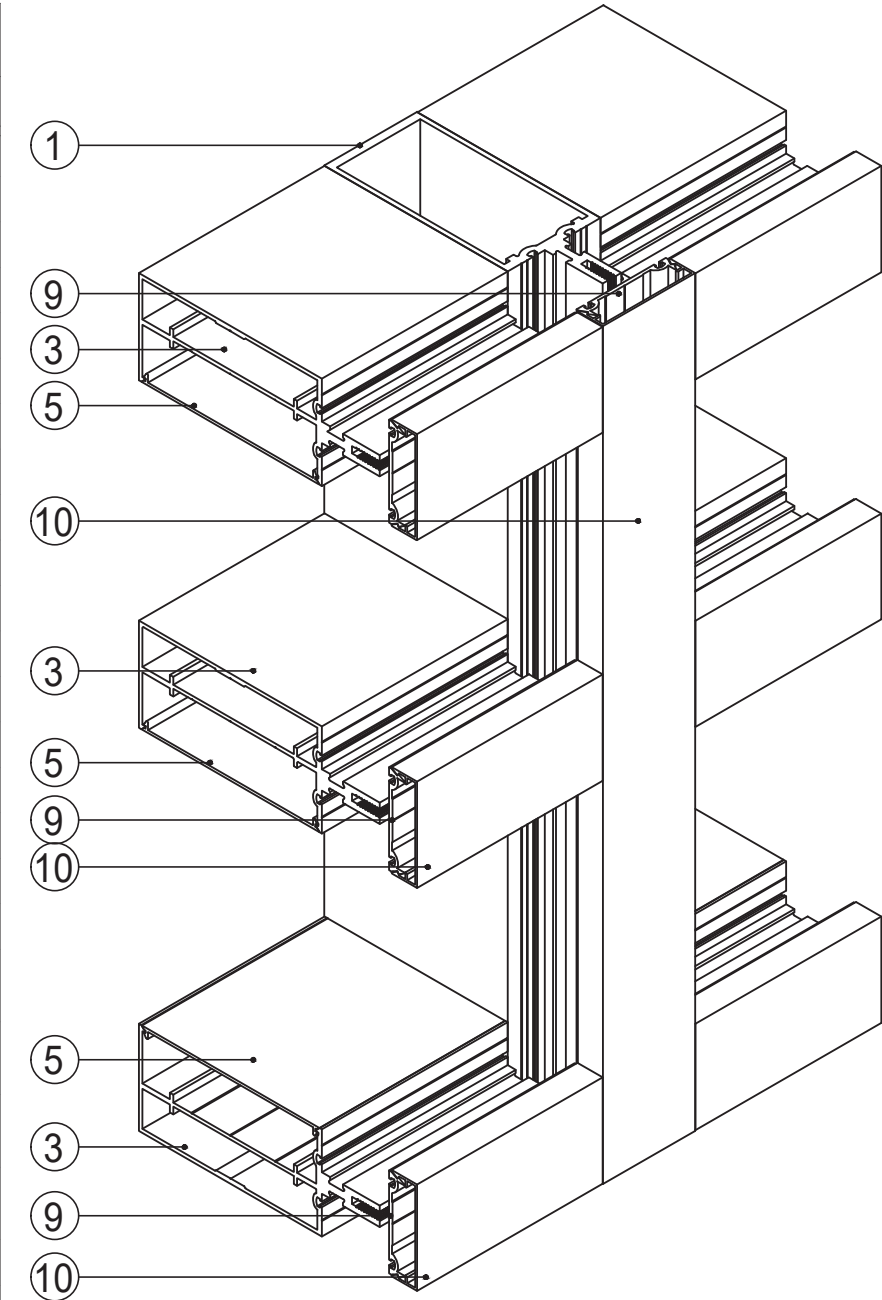
FL #42495.2

SHEET TITLE:

PARTS

DRAWN: James	SHEET No:
DATE: 10.07.23	22 OF 23
DWG: AD23-42	

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	82501	VERTICAL MULLION/JAMB	6063-T6	BONNELL
2	82508	OPEN BACK HEAD/SILL	6063-T6	BONNELL
3	82503	HEAD/SILL HORIZONTAL MULLION	6063-T6	BONNELL
4	82504	OPEN BACK JAMB	6063-T6	BONNELL
5	82505	FLAT FILLER	6063-T6	BONNELL
6	81009	9/16 GLAZING ADAPTER	6063-T6	BONNELL
7	81530	SHEAR CLIP	6063-T6	BONNELL
8	82001	PERIMETER PRESSURE BAR	6063-T6	BONNELL
9	81002	PRESSURE BAR	6063-T6	BONNELL
10	81005	SNAP COVER	6063-T6	BONNELL
11	81531	SHEAR CLIP FOR DOOR TRANSOM	6063-T6	BONNELL
12	81520	SPLICE SLEEVE/REINFORCEMENT	6063-T6	BONNELL
13	82590	JAMB ANCHOR ("F" ANCHOR)	6063-T6	BONNELL
14	82591	INTERMEDIATE MULLION ANCHOR ("T" ANCHOR)	6063-T6	BONNELL
15	05412	GLAZING GASKET	EPDM DURO 70 ±5	TREMCO/GRP
16	05414	PRESSURE GASKET	EPDM DURO 70 ±5	TREMCO/GRP
17	05413	GLAZING GASKET FOR DRY GLAZED	EPDM DURO 70 ±5	TREMCO/GRP
18A	H62D	SETTING BLOCK, 0.50" X 0.25" X 4"	EPDM DURO 85 ±5	TREMCO/GRP
19	23020	#14-16 X 7/8" HWH-AB MS	STEEL-ZINC COATED	VARIES
20	23021	#12-24 X 2" PPH-23 MS	STEEL-ZINC COATED	VARIES
21	23022	1/4-20 X 3/4" PPH-23 MS	STEEL-ZINC COATED	VARIES
22	23261	1/4-20 X 5/8" HWH	STEEL-ZINC COATED	VARIES
23	ST824	1 PC CHANNEL STEEL REINFORCEMENT 2" X 4 1/4" X 1/4"	A36 STEEL	VARIES
24	ST822	2 PCS CHANNEL STEEL REINFORCEMENT 1 1/2" X 4 1/4" X 1/4"	A36 STEEL	VARIES
25	ST821	2 PCS CHANNEL STEEL REINFORCEMENT 1 1/2" X 4 1/4" X 1/4" WITH 1" X 3" STEEL BAR	A36 STEEL	VARIES
27	V2108	GLAZING TAPE 0.375" X 0.25"	FOAM	ST. GOBAIN
27A	VK1826	GLAZING TAPE	FOAM	CAPITAL TAPE
28	DOWSIL790	SILICONE-PERIMETER SEALANT	SILICONE	DOW CORNING
29	-	DOWSIL -995	SILICONE	DOW CORNING
30	-	PROGLAZE SSG	SILICONE	TREMCO
31	-	SG-10	SILICONE	SIKASIL



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October 07th, 2023

FLORIDA APPROVAL:

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SHEET TITLE:

BOM

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