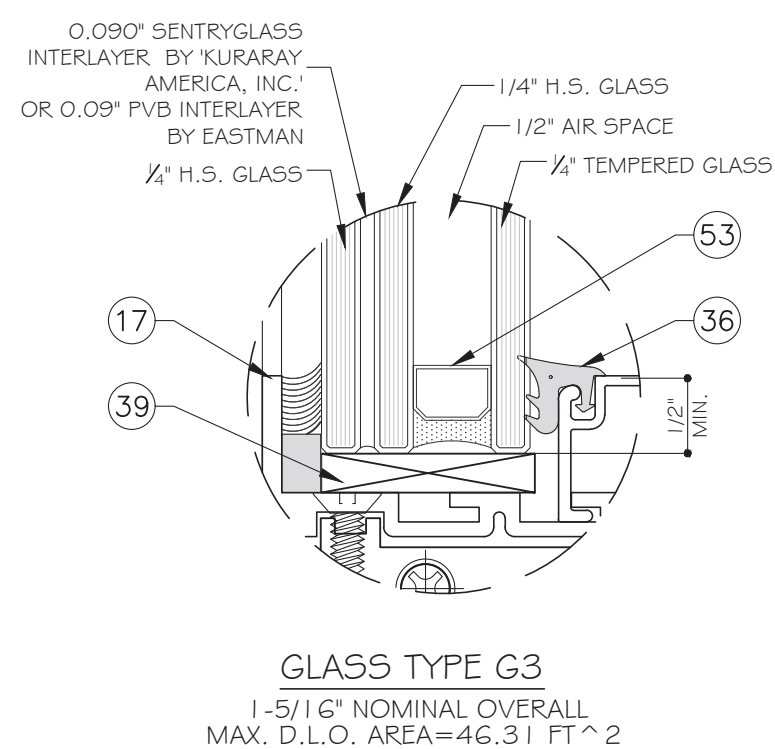
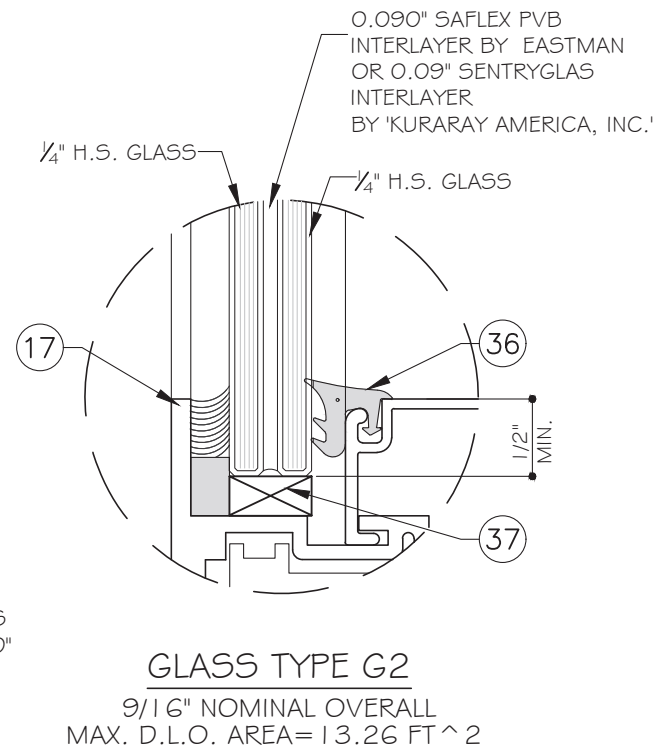
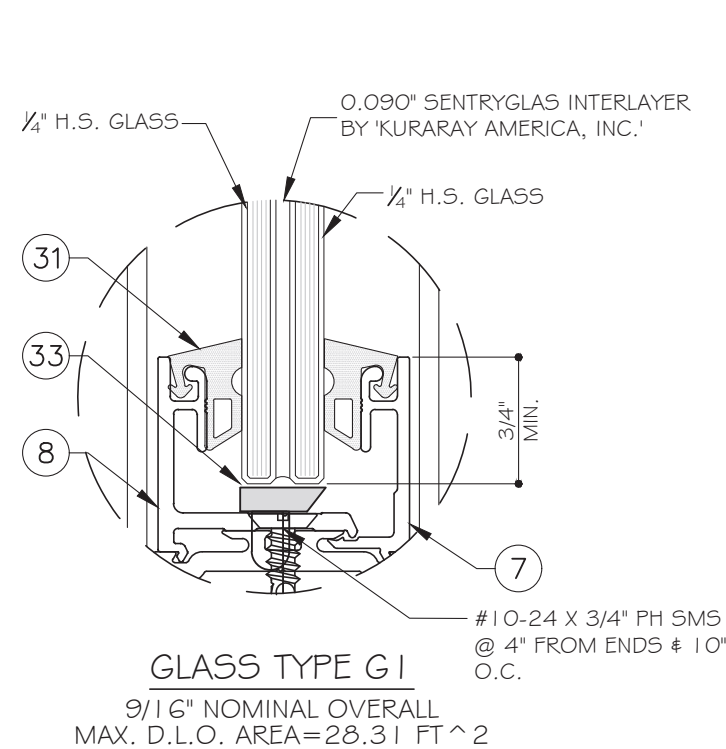


TRULITE GLASS & ALUMINUM SOLUTIONS

SERIES 35 1X OUTSWING OVERSIZED ENTRANCE DOOR WITH SIDELITE & TRANSOM



NOTE:
GLASS CHECKED WITH ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219.

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS OR EXTERNAL PROTECTION DEVICES ARE NOT REQUIRED.
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THE DOCUMENT.
- DOORS NOT APPROVED FOR INSTALLATION WHERE WATER INFILTRATION IS REQUIRED.
- 1X OR 2X WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE, TO BE REVIEWED BY BUILDING OFFICIAL.
- 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 2020 (7TH EDITION)/2023 (8TH EDITION) SECTION AS APPLICABLE.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 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.

HARDWARE

LOCK:

- ADAMS RITE SERIES 3 POINT LOCK HARDWARE AT ACTIVE PANEL AND ADAMS RITE SERIES 2 POINT LOCK HARDWARE AT INACTIVE PANEL.
- REGENT CONCEALED 3 POINT LOCK HARDWARE AT ACTIVE PANEL AND 2 POINT LOCK SYSTEM AT INACTIVE PANEL.
- AHT 8000 CVR 2 POINT LOCK HARDWARE WITH PANIC DEVICE AT ACTIVE/INACTIVE PANEL.

HINGE:

- STANDARD NRP BUTT HINGE 4-1/2"x 4"HAGER A793-32D.
- OFFSET CAST ALUMINUM PIVOT HINGES.
- CONTINUOUS ALUMINUM GEAR(GO095).

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: SELECT GLASS TYPE G1 TO G3 AS SHOWN ON CO1 AND ELEVATIONS.

STEP 3: SELECT SINGLE OR DOUBLE DOOR FROM SHEET E01 OR SINGLE OR DOUBLE DOOR WITH TRANSOM FROM SHEET E02.

STEP 4: SEE CHART ON E02 FOR TRANSOM OPTION AND CAPACITY.

STEP 5: SEE CHARTS ON SHEETS E03 TO E12 FOR DOOR JAMB MULLION CAPACITIES.

STEP 6: SELECT ANCHOR TYPES TO BE USED ON E01 TO E04, ANCHOR TYPES SEE SHEET D05.

STEP 7: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4, 5 & 6 SHALL APPLY TO ENTIRE SYSTEM.

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.



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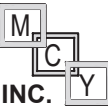
403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:



August 01st, 2023

SHEET TITLE:

C01

FLORIDA APPROVAL:

FL# 21892

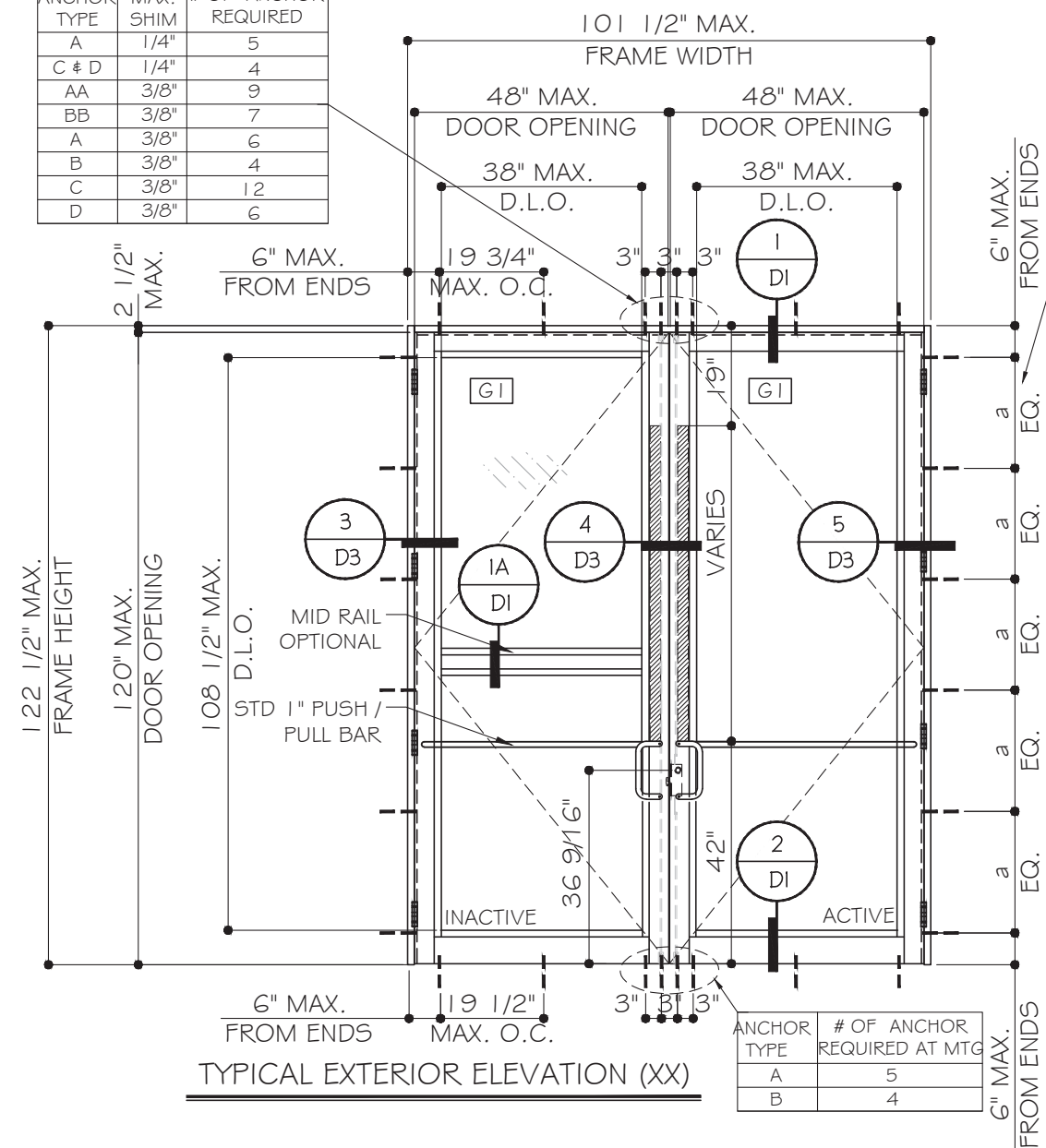
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DATE: 08.01.23

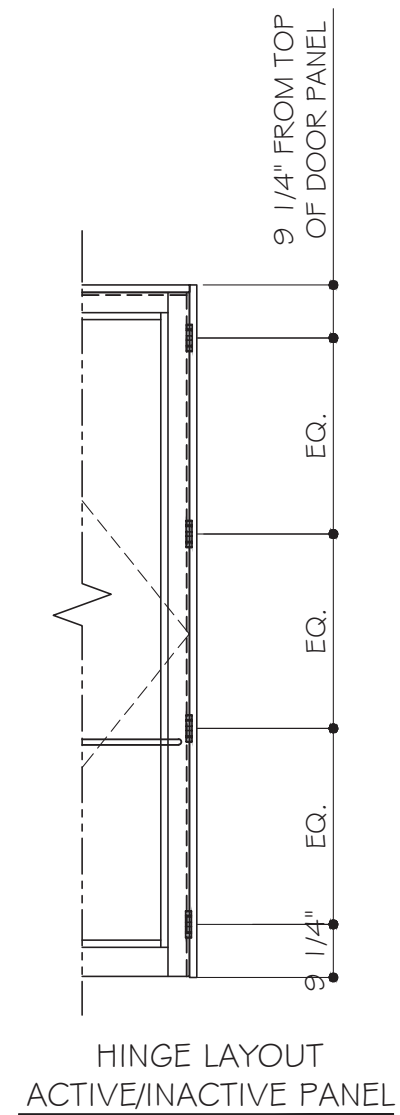
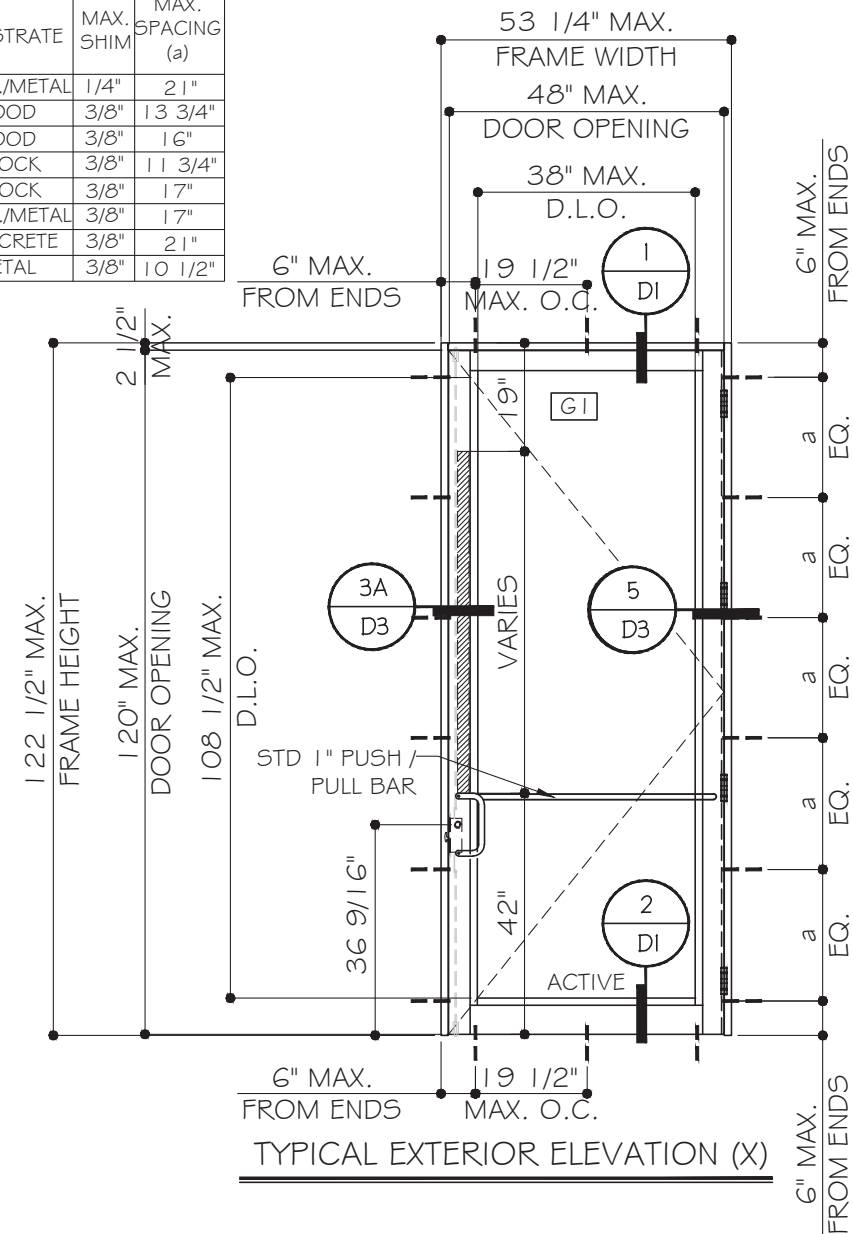
DWG: AD16-33

1 OF 23

*ANCHOR TYPE	MAX. SHIM	# OF ANCHOR REQUIRED
A	1/4"	5
C & D	1/4"	4
AA	3/8"	3
BB	3/8"	7
A	3/8"	6
B	3/8"	4
C	3/8"	12
D	3/8"	6



JAMB ANCHOR SPACING			
* ANCHOR TYPE	SUBSTRATE	MAX. SHIM	MAX. SPACING (a)
A,B/C,D	CONC./METAL	1/4"	2 1"
AA	WOOD	3/8"	13 3/4"
BB	WOOD	3/8"	16"
A	BLOCK	3/8"	11 3/4"
B	BLOCK	3/8"	17"
A / D	CONC./METAL	3/8"	17"
B	CONCRETE	3/8"	2 1"
C	METAL	3/8"	10 1/2"



DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC	
+85.0 PSF	
- 85.0 PSF	

* FOR ANCHOR TYPES, REFER TO SHEET A1.

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p. 800-432-8132

PRODUCT:

**351X SERIES
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STAMP:



August 01st, 2023

SHEET TITLE:

E01

FLORIDA APPROVAL:

FL# 21892

DRAWN: James

DATE: 08.01.23

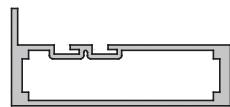
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2 OF 23

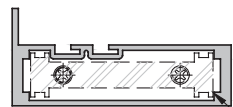
TRANSOM MULLION CAPACITY - PSF
FOR O/XX DOOR

FRAME DIMENSION		WITHOUT REINFORCEMENT		WITH REINFORCEMENT	
FRAME HEIGHT	DOOR WIDTH	PSF	PSF	PSF	PSF
(IN)	(IN)	+	-	+	-
108	72	65.0	85.0	65.0	85.0
	78	65.0	85.0	65.0	85.0
	84	65.0	85.0	65.0	85.0
	90	65.0	74.8	65.0	85.0
	96	65.0	65.7	65.0	85.0
114	72	65.0	85.0	65.0	85.0
	78	65.0	85.0	65.0	85.0
	84	65.0	81.3	65.0	85.0
	90	65.0	70.9	65.0	85.0
	96	62.3	62.3	65.0	82.1
120	72	65.0	85.0	65.0	85.0
	78	65.0	85.0	65.0	85.0
	84	65.0	77.3	65.0	85.0
	90	65.0	67.3	65.0	85.0
	96	59.1	59.1	65.0	78.0
126	72	65.0	85.0	65.0	85.0
	78	65.0	85.0	65.0	85.0
	84	65.0	73.6	65.0	85.0
	90	64.1	64.1	65.0	84.5
	96	56.3	56.3	65.0	74.3
132	72	65.0	85.0	65.0	85.0
	78	65.0	81.5	65.0	85.0
	84	65.0	70.3	65.0	85.0
	90	61.2	61.2	65.0	80.7
	96	53.8	53.8	65.0	70.9
138	72	65.0	85.0	65.0	85.0
	78	65.0	77.9	65.0	85.0
	84	65.0	67.2	65.0	85.0
	90	58.5	58.5	65.0	77.2
	96	51.5	51.5	65.0	67.8
144	72	65.0	85.0	65.0	85.0
	78	65.0	74.4	65.0	85.0
	84	64.0	64.4	65.0	83.6
	90	56.1	56.1	65.0	74.0
	96	49.3	49.3	65.0	65.0

NOTE: REINFORCING NOT REQUIRED FOR SINGLE DOOR WITH TRANSOM.



TRANSOM W/O REINF.

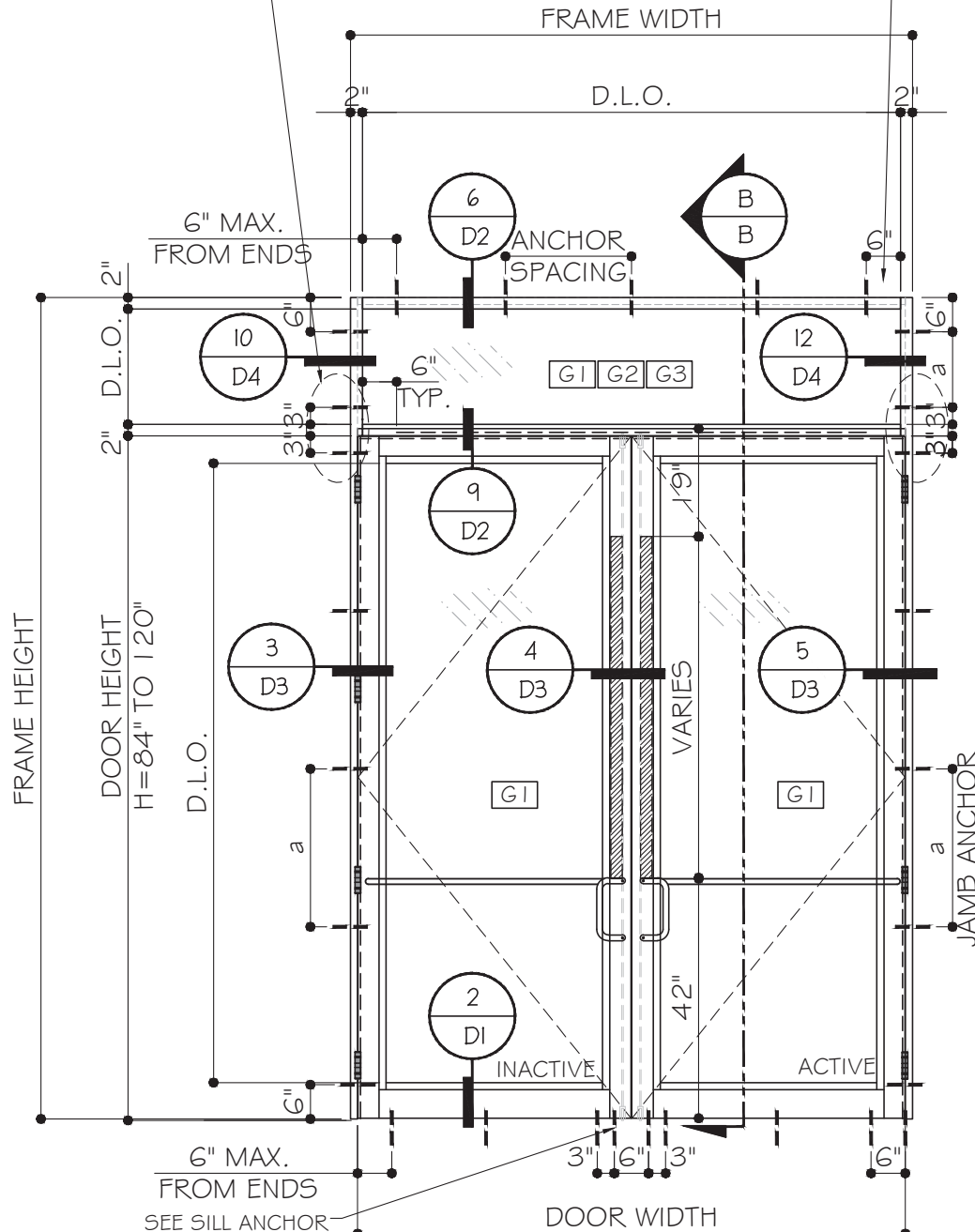


TRANSOM W/ REINF.

TRANSOM MULLION END ANCHOR FOR O/XX DOOR			
*ANCHOR TYPE	SUBSTRATE	MAX. SHIM	# OF ANCHORS REQ.
A,B/C,D	CONC./METAL	1/4"	5
AA	WOOD	3/8"	7
BB	WOOD	3/8"	6
A	BLOCK	3/8"	8
B	BLOCK	3/8"	6
A / D	CONC./METAL	3/8"	6
B	CONCRETE	3/8"	4
C	METAL	3/8"	9

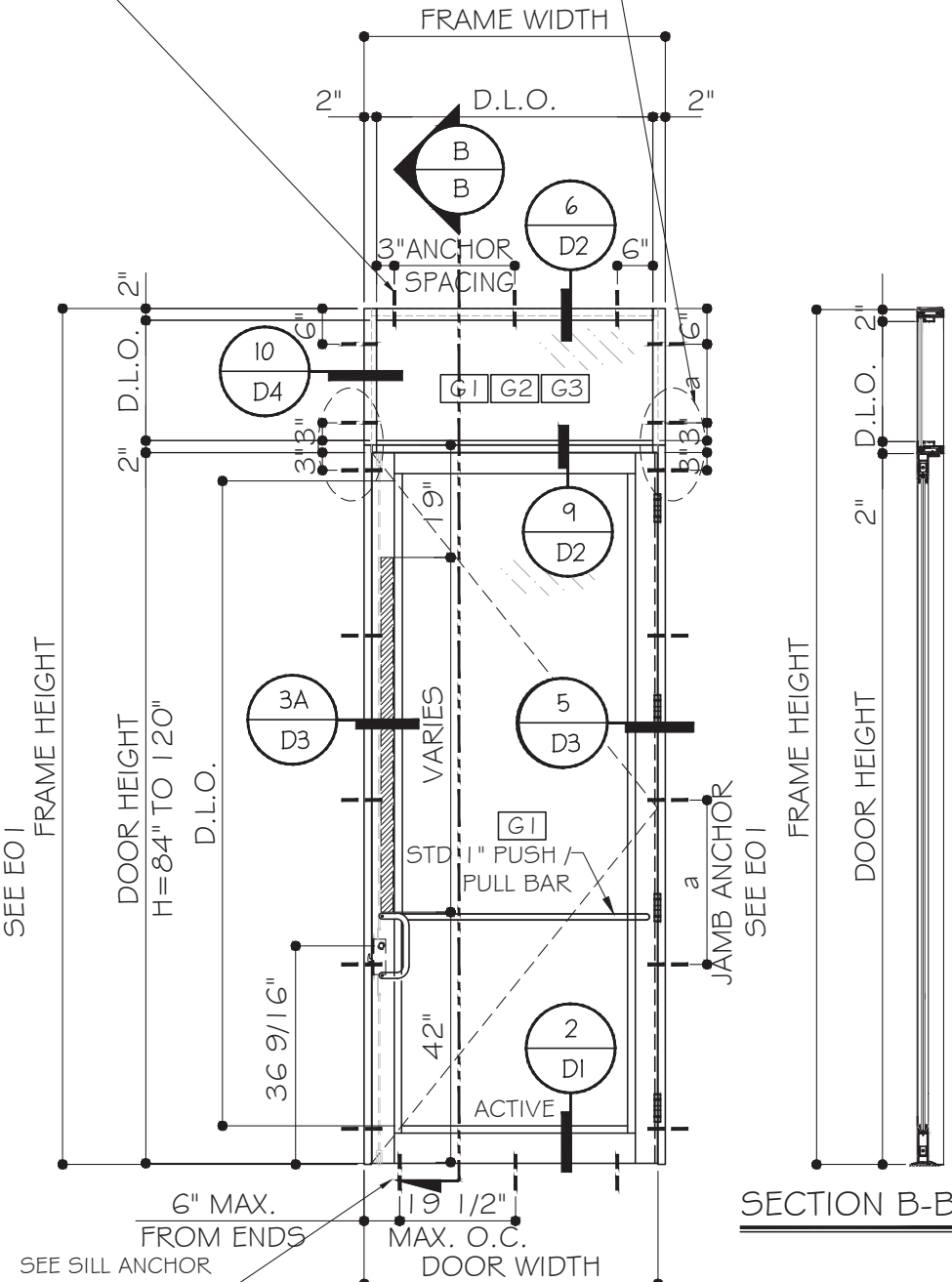
TRANSOM HEAD ANCHOR SPACING FOR O/XX AND O/X DOOR			
*ANCHOR TYPE	SUBSTRATE	MAX. SHIM	MAX. SPACING (a)
A	CONC.	1/4"	17.5"
B	CONC.	1/4"	22"
C,D	METAL	1/4"	25.5"
AA	WOOD	3/8"	11"
BB	WOOD	3/8"	13"
A	CONC.	3/8"	13"
B	CONC.	3/8"	20.5"
D	METAL	3/8"	13"

TRANSOM MULLION END ANCHOR FOR O/X DOOR			
*ANCHOR TYPE	SUBSTRATE	MAX. SHIM	# OF ANCHORS REQ.
C	METAL	1/4"	2
AA,BB	WOOD	3/8"	2
A, B, D	CONC./METAL	3/8"	2
C	METAL	3/8"	3



TYPICAL EXTERIOR ELEVATION (O/XX)
WITH TRANSOM

SEE CHART FOR TRANSOM MULLION CAPACITY



TYPICAL EXTERIOR ELEVATION (O/X)
WITH TRANSOM

DESIGN LOADS (O/X DOOR)	
(FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC	
+65.0 PSF - 85.0 PSF	

* FOR ANCHOR TYPES, REFER TO SHEET A1.

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PRODUCT:
**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

ENGINEER:
MCY ENGINEERING, INC.
GLAZING CONSULTANT
8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:
YOUNG WANG
P.E.
FLORIDA REGISTRATION
FL #55983
C.A. #22677
No. 55983
August 01st, 2023

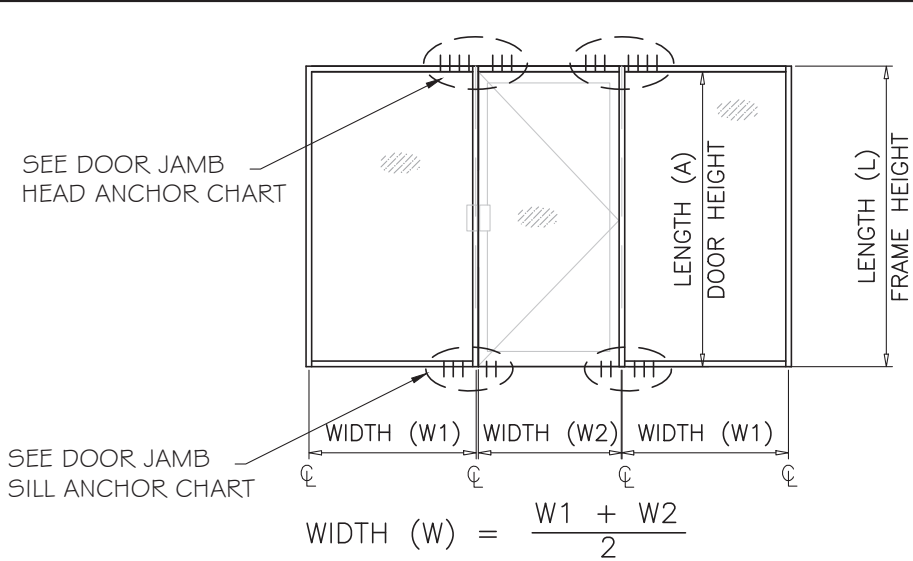
SHEET TITLE:
E02

FLORIDA APPROVAL:
FL# 21892

DRAWN: James
DATE: 08.01.23
DWG: AD16-33
3 OF 23

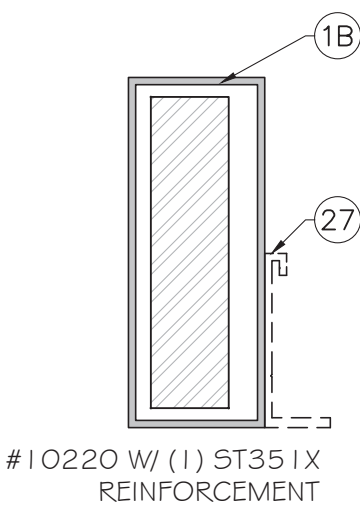
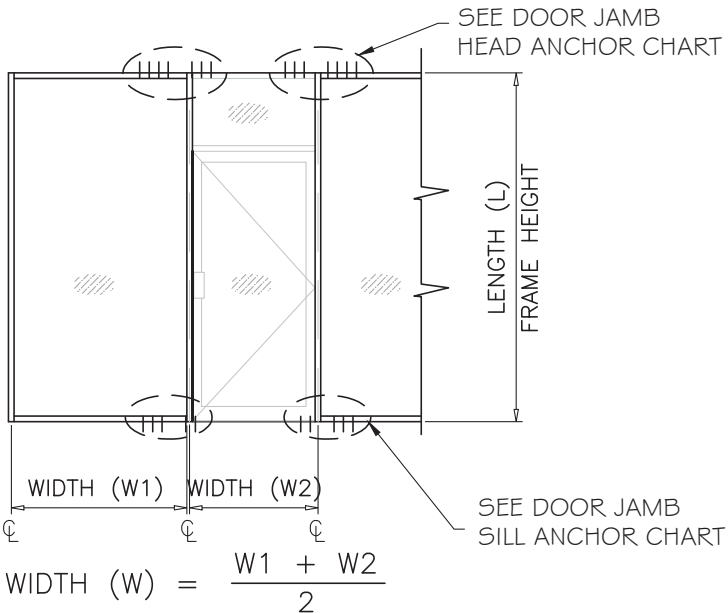
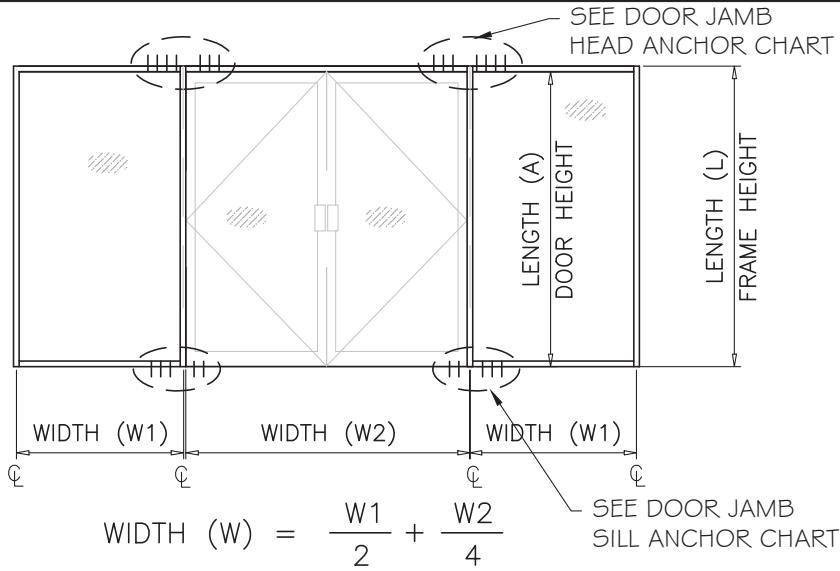
MULLION CAPACITY - PSF			
NOMINAL DIMENSIONS		DESIGN LOAD	
FRAME HEIGHT (L)	WIDTH (W)	PSF	PSF
(IN)	(IN)	+	-
108	42	65.0	85.0
	48	65.0	85.0
	54	65.0	85.0
	60	65.0	78.0
	66	65.0	79.0
	72	65.0	65.0
114	42	65.0	85.0
	48	65.0	85.0
	54	65.0	82.1
	60	65.0	73.9
120	66	65.0	67.2
	42	65.0	85.0
	48	65.0	85.0
	54	65.0	78.0
126	60	65.0	70.2
	42	65.0	85.0
	48	65.0	83.6
	54	65.0	74.3
132	60	65.0	66.9
	42	65.0	85.0
	48	65.0	79.8
	54	65.0	70.9
138	42	65.0	85.0
	48	65.0	76.3
	54	65.0	67.8
144	42	65.0	83.6
	48	65.0	73.1
	54	65.0	65.0

NOTE: CAPACITY FOR BOTH MULLION OPTION.

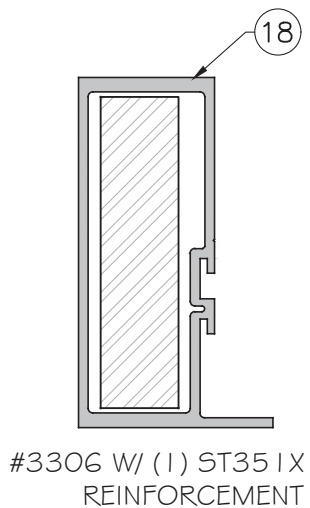


X or XX DOOR JAMB END ANCHOR AT HEAD			
ANCHOR TYPE	SUBSTRATE	MAX. SHIM	# OF ANCHORS REQ.
A	CONC.	1/4"	6
B	CONC.	1/4"	5
C / D	METAL	1/4"	4
AA	WOOD	3/8"	9
BB	WOOD	3/8"	8
B	CONC.	3/8"	5
A / D	CONC./METAL	3/8"	8

X or XX DOOR JAMB END ANCHOR AT SILL				
ANCHOR TYPE	SUBSTRATE	MAX. SHIM	# OF ANCHORS DOOR SILL	# OF ANCHORS SIDELITE
A	CONC.	1/4"	2	3
B	CONC.	1/4"	2	3
A	CONC.	3/8"	3	4
B	CONC.	3/8"	2	3



	Ix IN^4	Sx IN^3
ALUMINUM	2.8249	1.260
STEEL	5.3333	2.666
TOTAL	18.2918	—
1x ALUM + STL X 2.9		



	Ix IN^4	Sx IN^3
ALUMINUM	4.7474	1.9932
STEEL	5.3333	2.666
TOTAL	20.2141	—
1x ALUM + STL X 2.9		



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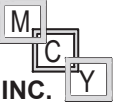
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PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
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August 01st, 2023

SHEET TITLE:

E03

FLORIDA APPROVAL:

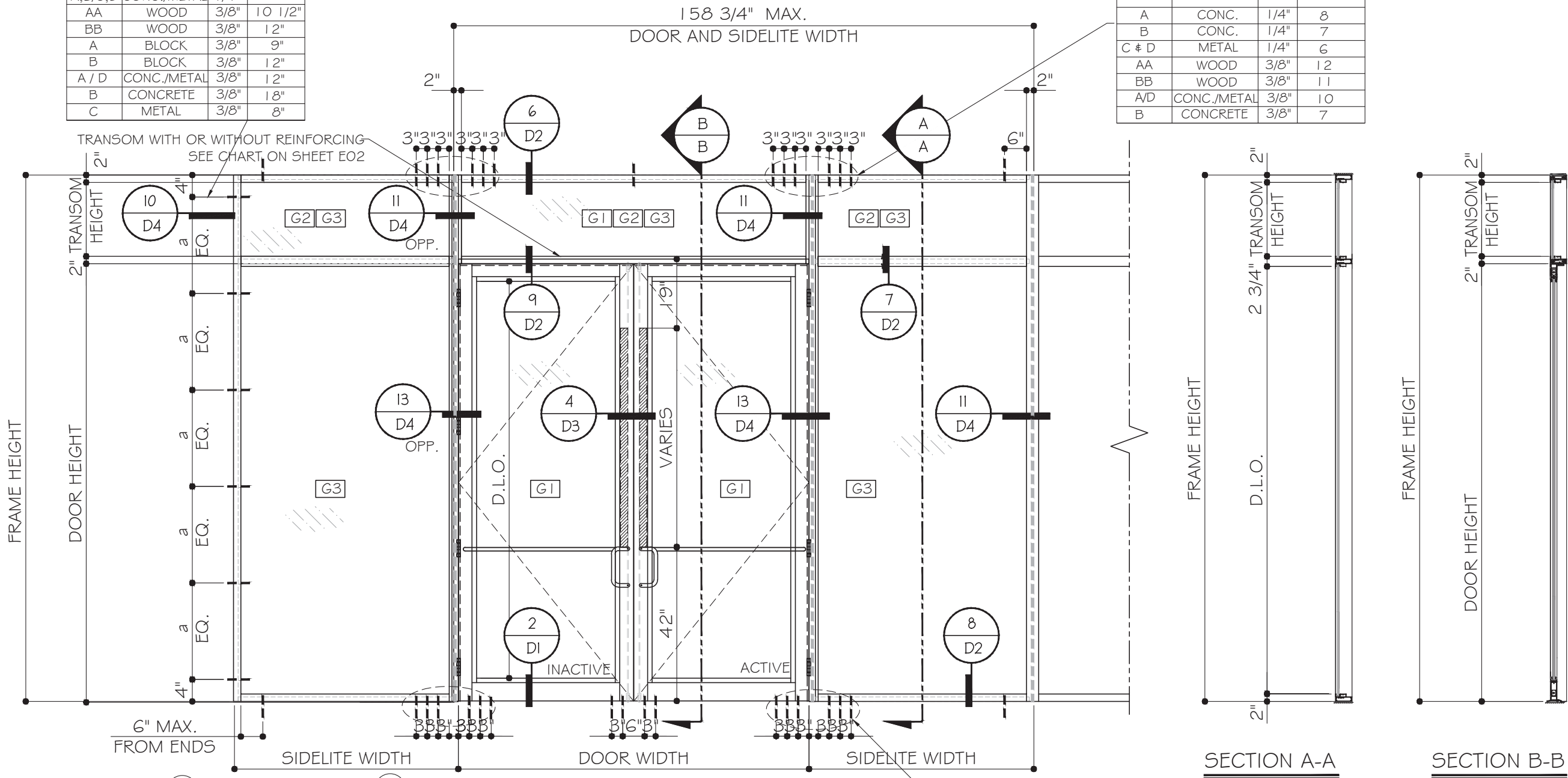
FL# 21892

DRAWN: James
DATE: 08.01.23
DWG: AD16-33

4 OF 23

SIDELITE JAMB ANCHOR SPACING			
* ANCHOR TYPE	SUBSTRATE	MAX. SHIM	MAX. SPACING (a)
A,B/C,D	CONC./METAL	1/4"	16"
AA	WOOD	3/8"	10 1/2"
BB	WOOD	3/8"	12"
A	BLOCK	3/8"	9"
B	BLOCK	3/8"	12"
A / D	CONC./METAL	3/8"	12"
B	CONCRETE	3/8"	18"
C	METAL	3/8"	8"

DOOR JAMB MULLION TOP ANCHOR			
* ANCHOR TYPE	SUBSTRATE	MAX. SHIM	# OF ANCHORS REQ.
A	CONC.	1/4"	8
B	CONC.	1/4"	7
C & D	METAL	1/4"	6
AA	WOOD	3/8"	12
BB	WOOD	3/8"	11
A/D	CONC./METAL	3/8"	10
B	CONCRETE	3/8"	7



TYPICAL EXTERIOR ELEVATION W/ SIDELITE
SEE DOOR JAMB MULLION OPTION AND CAPACITY ON
SHEETS 5 THRU 12.

DOOR JAMB MULLION SILL ANCHOR				
ANCHOR TYPE	SUBSTRATE	MAX. SHIM	# OF ANCHORS DOOR SILL	# OF ANCHORS SIDELITE
A	CONC.	1/4"	3	3
B	CONC.	1/4"	2	3
A	CONC.	3/8"	3	4
B	CONC.	3/8"	2	3

#10220 W/ (1) 5T35 1X
REINFORCEMENT

	1x IN^4	Sx IN^3
ALUMINUM	2.8249	1.260
STEEL	5.3333	2.666
TOTAL	18.2918	-
1x ALUM + STL X 2.9		

#3306 W/ (1) 5T35 1X
REINFORCEMENT

	1x IN^4	Sx IN^3
ALUMINUM	4.7474	1.9932
STEEL	5.3333	2.666
TOTAL	20.2141	-
1x ALUM + STL X 2.9		

* FOR ANCHOR TYPES, REFER TO SHEET A1.



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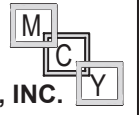
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PRODUCT:

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REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

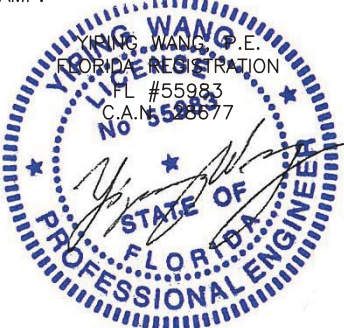
ENGINEER:



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STAMP:



YOUNG WANG P.E.
FLORIDA REGISTRATION
No. 55983
C.A. No. 22677
STATE OF FLORIDA
PROFESSIONAL ENGINEER

August 01st, 2023

SHEET TITLE:

E04

FLORIDA APPROVAL:

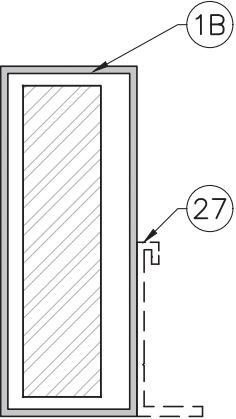
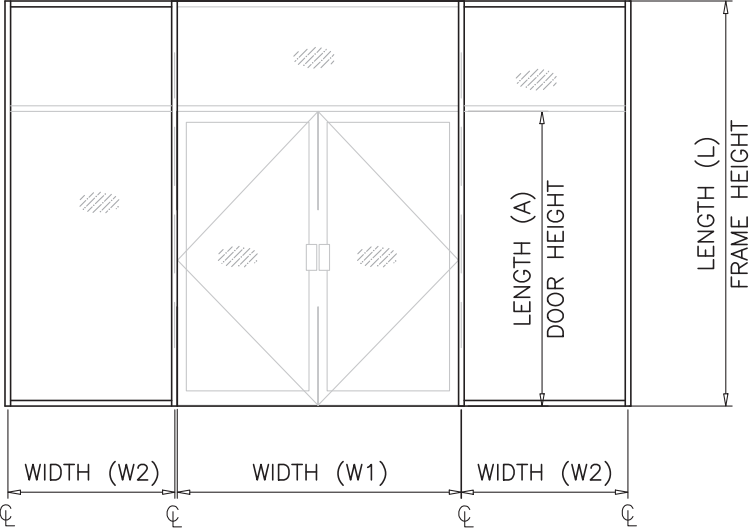
FL# 21892

DRAWN: James	5 OF 23
DATE: 08.01.23	
DWG: AD16-33	

DOOR JAMB MULLION CAPACITY - PSF FOR 84" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L) (IN)	DOOR HEIGHT (A) (IN)	DOOR WIDTH (W1) (IN)	SIDELITE WIDTH (W2) (IN)	PSF +	PSF -
108	84	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	83.0
			72	65.0	79.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	82.0
			66	65.0	78.0
			72	65.0	74.0
		96	42	65.0	85.0
			48	65.0	85.0
			54	65.0	81.0
			60	65.0	77.0
			66	65.0	73.0
			72	65.0	70.0
114	84	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	82.0
			66	65.0	78.0
			72	65.0	74.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	81.0
			60	65.0	77.0
			66	65.0	73.0
			72	65.0	69.0
		96	42	65.0	84.0
			48	65.0	80.0
			54	65.0	76.0
			60	65.0	72.0
			66	65.0	68.0
			72	65.0	65.0
120	84	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	82.0
			60	65.0	77.0
			66	65.0	73.0
			72	65.0	69.0
		84	42	65.0	85.0
			48	65.0	80.0
			54	65.0	76.0
			60	65.0	72.0
			66	65.0	68.0
			72	65.0	65.0
		96	42	65.0	79.0
			48	65.0	75.0
			54	65.0	71.0
			60	65.0	67.0
			66	64.0	64.0
			72	61.0	61.0

DOOR JAMB MULLION CAPACITY - PSF FOR 84" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (IN)	DOOR HEIGHT (IN)	DOOR WIDTH (IN)	SIDELITE WIDTH (IN)	PSF +	PSF -
126	84	72	42	65.0	85.0
			48	65.0	82.0
			54	65.0	77.0
			60	65.0	73.0
			66	65.0	69.0
		84	42	65.0	80.0
			48	65.0	75.0
			54	65.0	71.0
			60	65.0	68.0
			66	64.0	64.0
		96	42	65.0	74.0
			48	65.0	70.0
			54	65.0	66.0
			60	63.0	63.0
			66	60.0	60.0
132	84	72	42	65.0	82.0
			48	65.0	77.0
			54	65.0	73.0
			60	65.0	69.0
			66	65.0	65.0
		84	42	65.0	75.0
			48	65.0	71.0
			54	65.0	67.0
			60	64.0	64.0
			66	61.0	61.0
		96	42	65.0	68.0
			48	65.0	65.0
			54	63.0	63.0
			60	60.0	60.0
			66	57.0	57.0
138	84	72	42	65.0	74.0
			48	65.0	70.0
			54	65.0	67.0
			60	63.0	63.0
			66	61.0	61.0
		84	42	65.0	67.0
			48	64.0	64.0
			54	61.0	61.0
			60	58.0	58.0
			66	54.0	54.0
		96	42	61.0	61.0
			48	58.0	58.0
			54	56.0	56.0
			60	54.0	54.0
			66	54.0	54.0

DOOR JAMB MULLION CAPACITY - PSF FOR 84" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (IN)	DOOR HEIGHT (IN)	DOOR WIDTH (IN)	SIDELITE WIDTH (IN)	PSF +	PSF -
144	84	72	42	65.0	66.0
			48	63.0	63.0
			54	60.0	60.0
			60	57.0	57.0
		84	42	60.0	60.0
			48	57.0	57.0
			54	55.0	55.0
			60	52.0	52.0
		96	42	55.0	55.0
			48	52.0	52.0
			54	50.0	50.0
			60	48.0	48.0



#10220 W/ (1) ST351X
REINFORCEMENT

	Ix IN^4	Sx IN^3
ALUMINUM	2.8249	1.260
STEEL	5.3333	2.666
TOTAL	18.2918	-
Ix ALUM + STL X 2.9		



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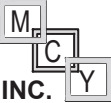
403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
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P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:



August 01st, 2023

SHEET TITLE:

E05

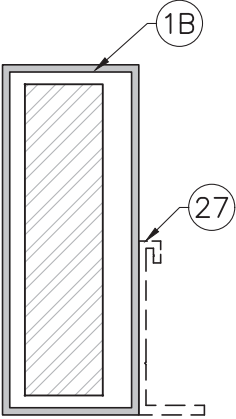
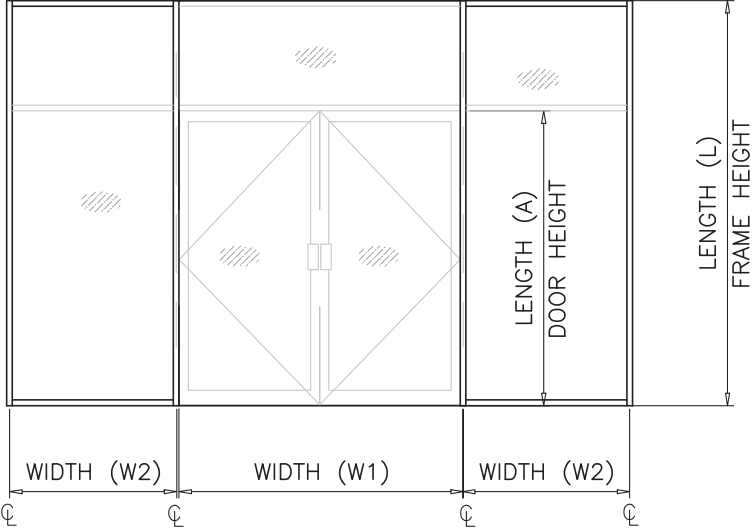
FLORIDA APPROVAL:

FL# 21892

DRAWN: James	6 OF 23
DATE: 08.01.23	
DWG: AD16-33	

DOOR JAMB MULLION CAPACITY - PSF FOR 90" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
114	90	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	84.0
			66	65.0	79.0
			72	65.0	75.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	83.0
			60	65.0	78.0
			66	65.0	74.0
			72	65.0	70.0
		96	42	65.0	85.0
			48	65.0	82.0
			54	65.0	77.0
			60	65.0	73.0
			66	65.0	70.0
			72	65.0	67.0
120	90	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	83.0
			60	65.0	78.0
			66	65.0	74.0
			72	65.0	70.0
		84	42	65.0	85.0
			48	65.0	82.0
			54	65.0	77.0
			60	65.0	73.0
			66	65.0	69.0
			72	65.0	66.0
		96	42	65.0	81.0
			48	65.0	76.0
			54	65.0	72.0
			60	65.0	69.0
			66	65.0	65.0
			72	62.0	62.0
126	90	72	42	65.0	85.0
			48	65.0	83.0
			54	65.0	78.0
			60	65.0	74.0
			66	65.0	70.0
			72	65.0	66.0
		84	42	65.0	82.0
			48	65.0	77.0
			54	65.0	73.0
			60	65.0	69.0
			66	65.0	65.0
			72	62.0	62.0
		96	42	65.0	76.0
			48	65.0	71.0
			54	65.0	68.0
			60	64.0	64.0
			66	61.0	61.0
			72	61.0	61.0

DOOR JAMB MULLION CAPACITY - PSF FOR 90" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
132	90	72	42	65.0	84.0
			48	65.0	78.0
			54	65.0	74.0
			60	65.0	70.0
			66	65.0	66.0
			72	65.0	77.0
		84	48	65.0	72.0
			54	65.0	68.0
			60	65.0	65.0
			66	62.0	62.0
			72	65.0	71.0
			48	65.0	67.0
		96	54	64.0	64.0
			60	61.0	61.0
			66	58.0	58.0
			72	65.0	76.0
			48	65.0	72.0
			54	65.0	69.0
			60	65.0	65.0
138	90	72	42	65.0	69.0
			48	65.0	66.0
			54	63.0	63.0
			60	60.0	60.0
			72	63.0	63.0
			48	61.0	61.0
		84	54	58.0	58.0
			60	56.0	56.0
			72	65.0	69.0
			48	65.0	65.0
			54	62.0	62.0
			60	59.0	59.0
		96	42	62.0	62.0
			48	59.0	59.0
			54	56.0	56.0
			60	54.0	54.0
			72	57.0	57.0
			48	54.0	54.0
144	90	72	42	57.0	57.0
			48	54.0	54.0
			54	52.0	52.0
			60	50.0	50.0
		84	42	62.0	62.0
			48	59.0	59.0
			54	56.0	56.0
			60	54.0	54.0
			72	57.0	57.0
			48	54.0	54.0
		96	54	52.0	52.0
			60	50.0	50.0
			72	57.0	57.0
			48	54.0	54.0
			54	52.0	52.0
			60	50.0	50.0



#10220 W/ (1) ST351X
REINFORCEMENT

	Ix IN^4	Sx IN^3
ALUMINUM	2.8249	1.260
STEEL	5.3333	2.666
TOTAL	18.2918	-
Ix ALUM + STL X 2.9		



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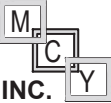
403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

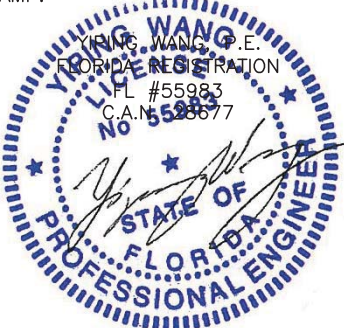
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

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August 01st, 2023

SHEET TITLE:

E06

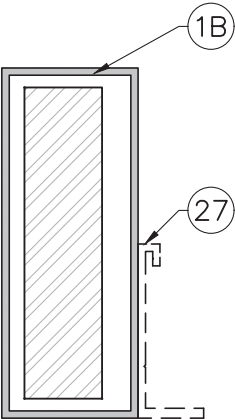
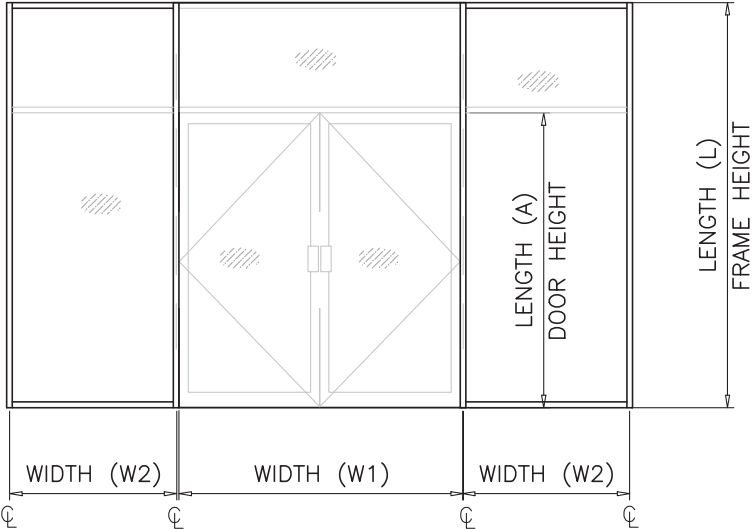
FLORIDA APPROVAL:

FL# 21892

DRAWN: James	7 OF 23
DATE: 08.01.23	
DWG: AD16-33	

DOOR JAMB MULLION CAPACITY - PSF FOR 96" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
120	96	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	80.0
			66	65.0	75.0
			72	65.0	71.0
		84	42	65.0	85.0
			48	65.0	84.0
			54	65.0	79.0
			60	65.0	75.0
			66	65.0	71.0
			72	65.0	67.0
		96	42	65.0	82.0
			48	65.0	78.0
			54	65.0	74.0
			60	65.0	70.0
			66	65.0	67.0
			72	63.0	63.0
126	96	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	80.0
			60	65.0	75.0
			66	65.0	71.0
		84	42	65.0	83.0
			48	65.0	78.0
			54	65.0	74.0
			60	65.0	70.0
			66	65.0	66.0
		96	42	65.0	77.0
			48	65.0	73.0
			54	65.0	69.0
			60	65.0	66.0
			66	62.0	62.0
132	96	72	42	65.0	85.0
			48	65.0	80.0
			54	65.0	75.0
			60	65.0	71.0
			66	65.0	67.0
		84	42	65.0	78.0
			48	65.0	74.0
			54	65.0	70.0
			60	65.0	66.0
			66	63.0	63.0
		96	42	65.0	73.0
			48	65.0	69.0
			54	65.0	65.0
			60	62.0	62.0
			66	59.0	59.0

DOOR JAMB MULLION CAPACITY - PSF FOR 96" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
138	96	72	42	65.0	79.0
			48	65.0	75.0
			54	65.0	71.0
			60	65.0	67.0
		84	42	65.0	72.0
			48	65.0	68.0
			54	65.0	65.0
			60	62.0	62.0
		96	42	65.0	66.0
			48	63.0	63.0
			54	60.0	60.0
			60	57.0	57.0
144	96	72	42	65.0	71.0
			48	65.0	67.0
			54	64.0	64.0
			60	61.0	61.0
		84	42	64.0	64.0
			48	61.0	61.0
			54	58.0	58.0
			60	56.0	56.0
		96	42	59.0	59.0
			48	56.0	56.0
			54	54.0	54.0
			60	52.0	52.0



#10220 W/ (1) ST351X
REINFORCEMENT

	Ix IN^4	Sx IN^3
ALUMINUM	2.8249	1.260
STEEL	5.3333	2.666
TOTAL	18.2918	-
Ix ALUM + STL X 2.9		



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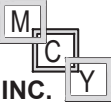
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PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

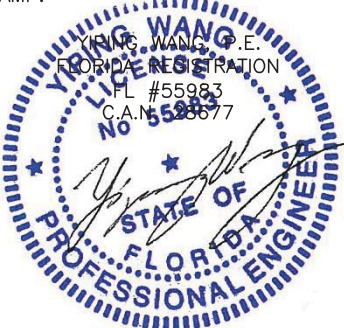
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

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SHEET TITLE:

E07

FLORIDA APPROVAL:

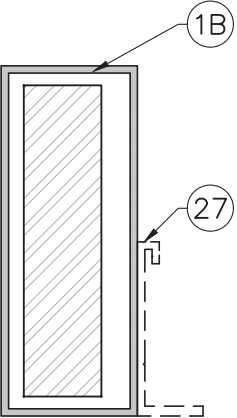
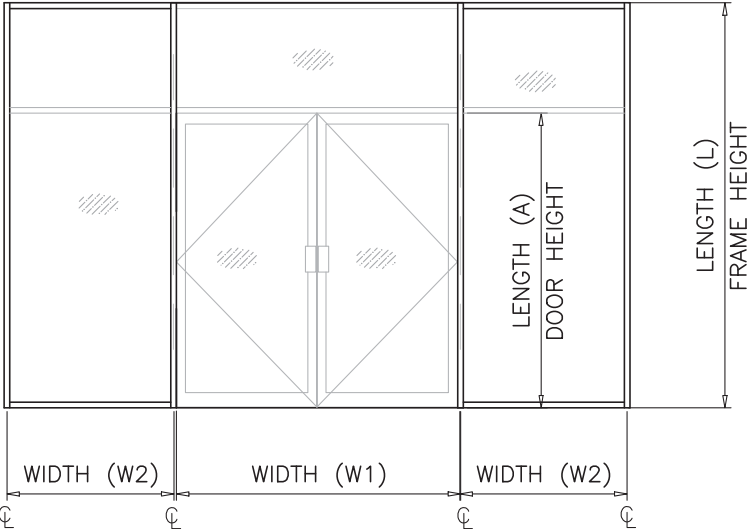
FL# 21892

DRAWN: James	8 OF 23
DATE: 08.01.23	
DWG: AD16-33	

DOOR JAMB MULLION CAPACITY - PSF FOR 102" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
126	102	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	81.0
			60	65.0	76.0
			66	65.0	72.0
			42	65.0	85.0
		84	48	65.0	80.0
			54	65.0	75.0
			60	65.0	71.0
			66	65.0	68.0
		96	42	65.0	78.0
			48	65.0	74.0
			54	65.0	70.0
			60	65.0	67.0
			66	64.0	64.0
132	102	72	42	65.0	85.0
			48	65.0	81.0
			54	65.0	76.0
			60	65.0	72.0
			66	65.0	68.0
		84	42	65.0	80.0
			48	65.0	75.0
			54	65.0	71.0
			60	65.0	67.0
			66	64.0	64.0
		96	42	65.0	74.0
			48	65.0	70.0
			54	65.0	66.0
			60	63.0	63.0
			66	60.0	60.0
138	102	72	42	65.0	82.0
			48	65.0	77.0
			54	65.0	72.0
			60	65.0	68.0
		84	42	65.0	75.0
			48	65.0	71.0
			54	65.0	67.0
			60	63.0	63.0
		96	42	65.0	69.0
			48	65.0	65.0
			54	62.0	62.0
			60	59.0	59.0
144	102	72	42	65.0	73.0
			48	65.0	69.0
			54	65.0	66.0
			60	62.0	62.0
		84	42	65.0	67.0
			48	63.0	63.0
			54	60.0	60.0
			60	57.0	57.0
		96	42	61.0	61.0
			48	58.0	58.0
			54	56.0	56.0
			60	53.0	53.0

DOOR JAMB MULLION CAPACITY - PSF FOR 108" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
132	108	72	42	65.0	85.0
			48	65.0	83.0
			54	65.0	77.0
			60	65.0	73.0
			66	65.0	69.0
		84	42	65.0	81.0
			48	65.0	77.0
			54	65.0	72.0
			60	65.0	68.0
			66	65.0	65.0
		96	42	65.0	74.0
			48	65.0	71.0
			54	65.0	68.0
			60	64.0	64.0
			66	61.0	61.0
138	108	72	42	65.0	83.0
			48	65.0	78.0
			54	65.0	73.0
			60	65.0	69.0
		84	42	65.0	77.0
			48	65.0	72.0
			54	65.0	68.0
			60	64.0	64.0
		96	42	65.0	71.0
			48	65.0	67.0
			54	64.0	64.0
			60	60.0	60.0
144	108	72	42	65.0	76.0
			48	65.0	71.0
			54	65.0	68.0
			60	64.0	64.0
		84	42	65.0	69.0
			48	65.0	66.0
			54	62.0	62.0
			60	59.0	59.0
		96	42	64.0	64.0
			48	61.0	61.0
			54	58.0	58.0
			60	55.0	55.0

DOOR JAMB MULLION CAPACITY - PSF FOR 114" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
138	114	72	42	65.0	85.0
			48	65.0	79.0
			54	65.0	74.0
			60	65.0	70.0
		84	42	65.0	77.0
			48	65.0	73.0
			54	65.0	69.0
			60	65.0	65.0
		96	42	65.0	70.0
			48	65.0	67.0
			54	64.0	64.0
			60	61.0	61.0
144	114	72	42	65.0	79.0
			48	65.0	74.0
			54	65.0	70.0
			60	65.0	66.0
		84	42	65.0	72.0
			48	65.0	68.0
			54	64.0	64.0
			60	61.0	61.0
		96	42	65.0	66.0
			48	63.0	63.0
			54	60.0	60.0
			60	57.0	57.0



#10220 W/ (1) ST35 1X REINFORCEMENT

	Ix IN^4	Sx IN^3
ALUMINUM	2.8249	1.260
STEEL	5.3333	2.666
TOTAL	18.2918	-
Ix ALUM + STL X 2.9		



GLASS & ALUMINUM SOLUTIONS™

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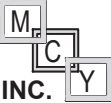
403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS
(LARGE MISSILE IMPACT)

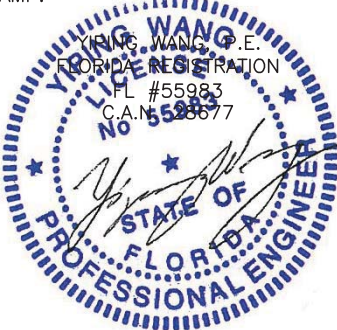
REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT
8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:



August 01st, 2023

SHEET TITLE:

E08

FLORIDA APPROVAL:

FL# 21892

DRAWN: James

DATE: 08.01.23

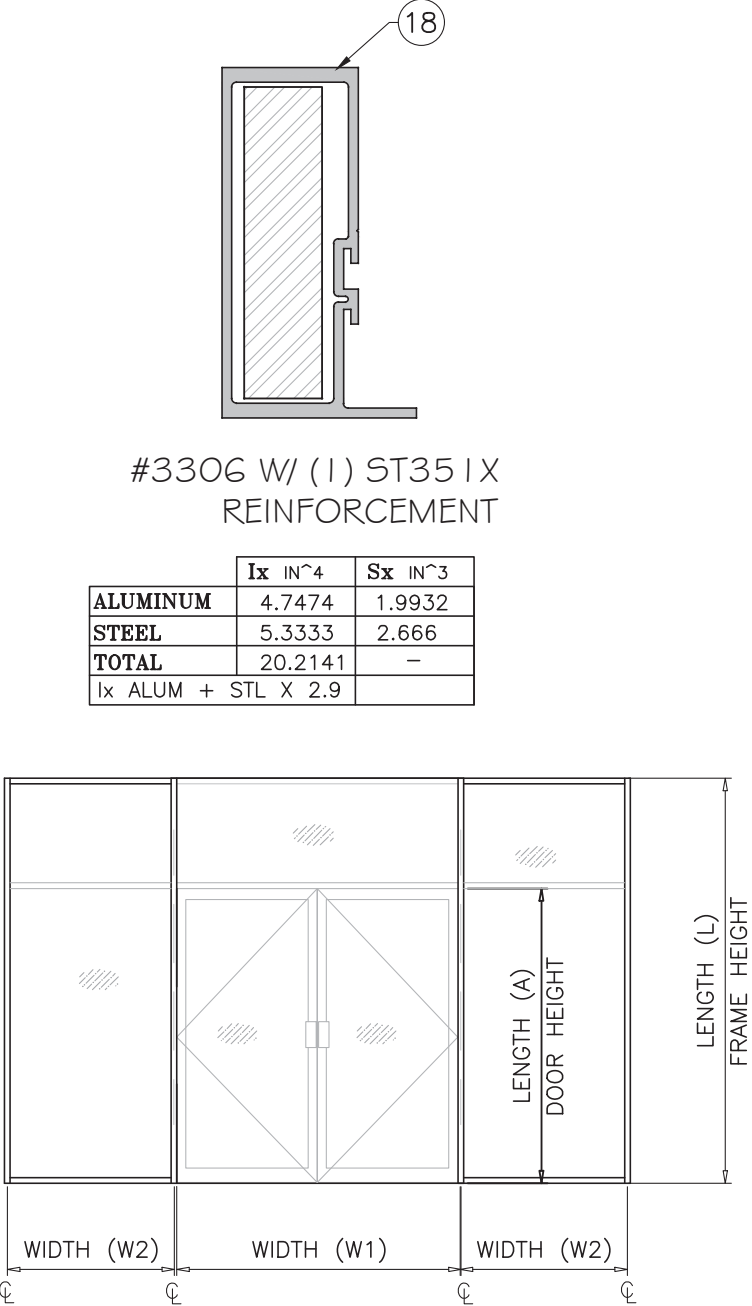
DWG: AD16-33

9 OF 23

DOOR JAMB MULLION CAPACITY - PSF FOR 84" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
108	84	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	85.0
			72	65.0	85.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	85.0
			72	65.0	81.0
		96	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	84.0
			66	65.0	80.0
			72	65.0	76.0
114	84	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	85.0
			72	65.0	81.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	84.0
			66	65.0	80.0
			72	65.0	76.0
		96	42	65.0	85.0
			48	65.0	85.0
			54	65.0	83.0
			60	65.0	78.0
			66	65.0	75.0
			72	65.0	71.0
120	84	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	84.0
			66	65.0	80.0
			72	65.0	76.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	83.0
			60	65.0	78.0
			66	65.0	75.0
			72	65.0	71.0
		96	42	65.0	85.0
			48	65.0	81.0
			54	65.0	77.0
			60	65.0	73.0
			66	65.0	70.0
			72	65.0	67.0

DOOR JAMB MULLION CAPACITY - PSF FOR 84" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
126	84	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	84.0
			60	65.0	79.0
			66	65.0	75.0
			72	65.0	71.0
		84	42	65.0	85.0
			48	65.0	82.0
			54	65.0	78.0
			60	65.0	74.0
			66	65.0	70.0
			72	65.0	66.0
		96	42	65.0	81.0
			48	65.0	76.0
			60	65.0	69.0
			66	65.0	66.0
			72	65.0	62.0
			72	65.0	59.0
132	84	72	42	65.0	85.0
			48	65.0	84.0
			54	65.0	79.0
			60	65.0	75.0
			66	65.0	71.0
			72	65.0	67.0
		84	42	65.0	82.0
			48	65.0	78.0
			54	65.0	73.0
			60	65.0	70.0
			66	65.0	66.0
			72	65.0	62.0
		96	42	65.0	75.0
			48	65.0	71.0
			54	65.0	68.0
			60	65.0	65.0
			66	65.0	62.0
			72	65.0	59.0
138	84	72	42	65.0	81.0
			48	65.0	76.0
			54	65.0	73.0
			60	65.0	69.0
			66	65.0	65.0
			72	65.0	61.0
		84	42	65.0	73.0
			48	65.0	70.0
			54	65.0	66.0
			60	64.0	64.0
			66	64.0	61.0
			72	61.0	59.0
		96	42	65.0	67.0
			48	64.0	64.0
			54	61.0	61.0
			60	59.0	59.0
			66	59.0	59.0
			72	59.0	59.0

DOOR JAMB MULLION CAPACITY - PSF FOR 84" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
144	84	72	42	65.0	73.0
			48	65.0	69.0
			54	65.0	66.0
			60	63.0	63.0
			66	63.0	60.0
			72	63.0	60.0
		84	42	65.0	66.0
			48	63.0	63.0
			54	60.0	60.0
			60	57.0	57.0
			66	57.0	57.0
			72	57.0	57.0
		96	42	60.0	60.0
			48	57.0	57.0
			54	55.0	55.0
			60	53.0	53.0
			66	53.0	53.0
			72	53.0	53.0





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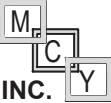
403 WESTPARK COURT, SUITE 201
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p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

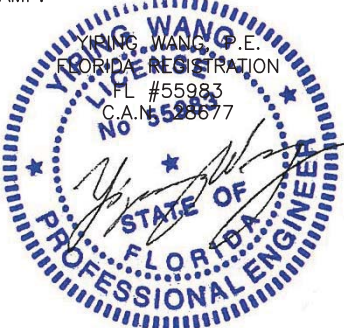
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
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SHEET TITLE:

E09

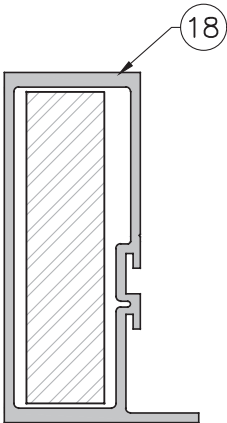
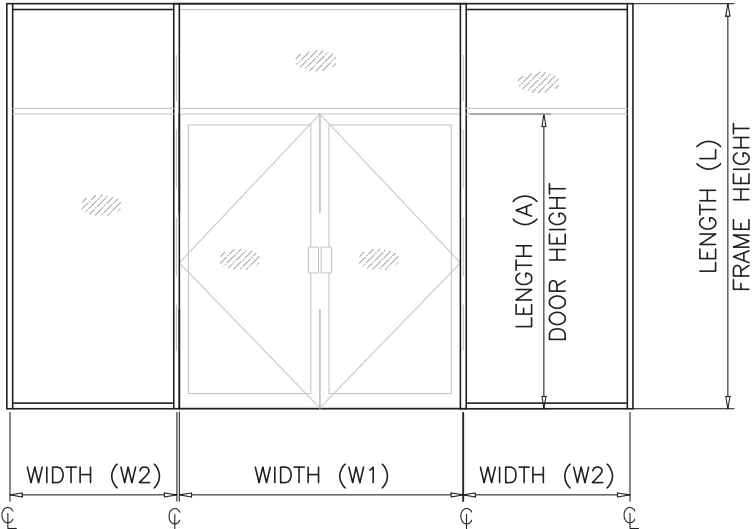
FLORIDA APPROVAL:

FL# 21892

DRAWN: James	10 OF 23
DATE: 08.01.23	
DWG: AD16-33	

DOOR JAMB MULLION CAPACITY - PSF FOR 90" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
114	90	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	85.0
			72	65.0	82.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	81.0
			72	65.0	77.0
		96	42	65.0	85.0
			48	65.0	85.0
			54	65.0	84.0
			60	65.0	80.0
			66	65.0	76.0
			72	65.0	73.0
120	90	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	81.0
			72	65.0	77.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	84.0
			60	65.0	80.0
			66	65.0	76.0
			72	65.0	72.0
		96	42	65.0	85.0
			48	65.0	83.0
			54	65.0	79.0
			60	65.0	75.0
			66	65.0	71.0
			72	65.0	68.0
126	90	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	81.0
			66	65.0	76.0
			72	65.0	72.0
		84	42	65.0	85.0
			48	65.0	84.0
			54	65.0	79.0
			60	65.0	75.0
			66	65.0	71.0
			72	65.0	68.0
		96	42	65.0	83.0
			48	65.0	78.0
			54	65.0	74.0
			60	65.0	70.0
			66	65.0	67.0
			72	65.0	64.0

DOOR JAMB MULLION CAPACITY - PSF FOR 90" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L)	DOOR HEIGHT (A)	DOOR WIDTH (W1)	SIDELITE WIDTH (W2)	PSF	PSF
(IN)	(IN)	(IN)	(IN)	+	-
132	90	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	81.0
			60	65.0	76.0
			66	65.0	72.0
			72	65.0	68.0
		84	42	65.0	79.0
			48	65.0	75.0
			54	65.0	71.0
			60	65.0	67.0
			66	65.0	63.0
			72	65.0	59.0
		96	42	65.0	70.0
			48	65.0	66.0
			54	63.0	63.0
			60	63.0	60.0
			66	63.0	57.0
			72	63.0	54.0
138	90	72	42	65.0	83.0
			48	65.0	79.0
			54	65.0	75.0
			60	65.0	71.0
			66	65.0	67.0
			72	65.0	63.0
		84	42	65.0	76.0
			48	65.0	72.0
			54	65.0	69.0
			60	65.0	66.0
			66	65.0	63.0
			72	65.0	59.0
		96	42	65.0	69.0
			48	65.0	66.0
			54	63.0	63.0
			60	61.0	61.0
			66	61.0	58.0
			72	61.0	55.0
144	90	72	42	65.0	75.0
			48	65.0	71.0
			54	65.0	68.0
			60	64.0	64.0
			66	64.0	61.0
			72	64.0	58.0
		84	42	65.0	68.0
			48	65.0	65.0
			54	62.0	62.0
			60	59.0	59.0
			66	59.0	56.0
			72	59.0	53.0
		96	42	62.0	62.0
			48	59.0	59.0
			54	57.0	57.0
			60	55.0	55.0
			66	55.0	52.0
			72	55.0	50.0



#3306 W/ (1) ST35 1X
REINFORCEMENT

	Ix IN^4	Sx IN^3
ALUMINUM	4.7474	1.9932
STEEL	5.3333	2.666
TOTAL	20.2141	—
Ix ALUM + STL X 2.9		



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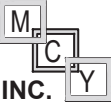
403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

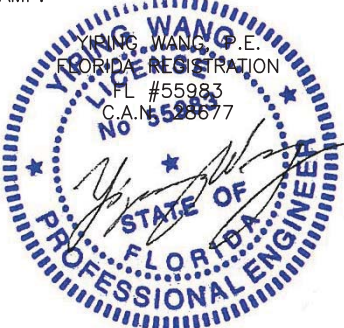
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
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STAMP:



August 01st, 2023

SHEET TITLE:

E10

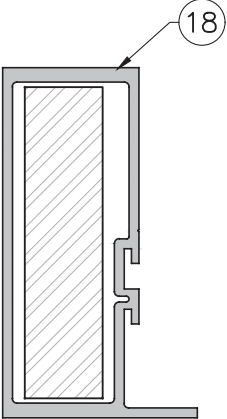
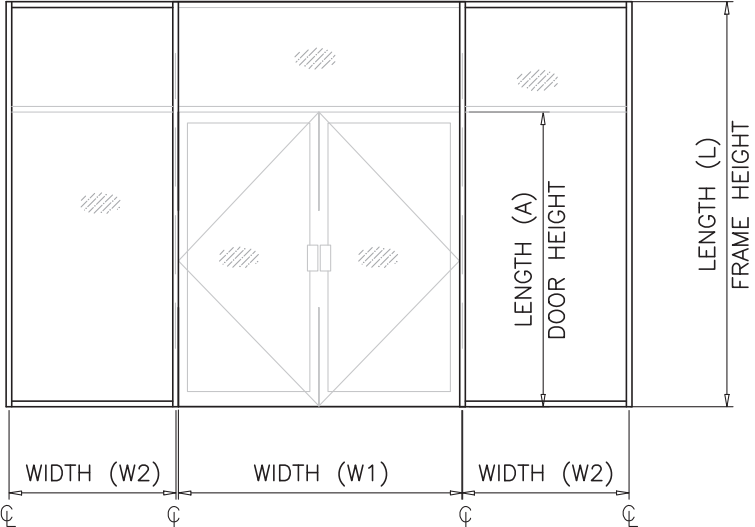
FLORIDA APPROVAL:

FL# 21892

DRAWN: James	11 OF 23
DATE: 08.01.23	
DWG: AD16-33	

DOOR JAMB MULLION CAPACITY - PSF FOR 96" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L) (IN)	DOOR HEIGHT (A) (IN)	DOOR WIDTH (W1) (IN)	SIDELITE WIDTH (W2) (IN)	PSF +	PSF -
120	96	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	85.0
			66	65.0	82.0
			72	65.0	78.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	81.0
			66	65.0	77.0
			72	65.0	73.0
		96	42	65.0	85.0
			48	65.0	85.0
			54	65.0	81.0
			60	65.0	76.0
			66	65.0	73.0
			72	65.0	69.0
126	96	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	85.0
			60	65.0	82.0
			66	65.0	77.0
		84	42	65.0	85.0
			48	65.0	85.0
			54	65.0	81.0
			60	65.0	76.0
			66	65.0	73.0
		96	42	65.0	84.0
			48	65.0	80.0
			54	65.0	75.0
			60	65.0	72.0
			66	65.0	68.0
132	96	72	42	65.0	85.0
			48	65.0	85.0
			54	65.0	82.0
			60	65.0	77.0
			66	65.0	73.0
		84	42	65.0	85.0
			48	65.0	81.0
			54	65.0	76.0
			60	65.0	72.0
			66	65.0	68.0
		96	42	65.0	79.0
			48	65.0	75.0
			54	65.0	71.0
			60	65.0	67.0
			66	64.0	64.0

DOOR JAMB MULLION CAPACITY - PSF FOR 96" DOOR HEIGHT					
NOMINAL DIMENSIONS				DESIGN LOAD	
FRAME HEIGHT (L) (IN)	DOOR HEIGHT (A) (IN)	DOOR WIDTH (W1) (IN)	SIDELITE WIDTH (W2) (IN)	PSF +	PSF -
138	96	72	42	65.0	85.0
			48	65.0	82.0
			54	65.0	77.0
			60	65.0	73.0
			66	65.0	69.0
		84	42	65.0	79.0
			48	65.0	75.0
			54	65.0	71.0
			60	65.0	68.0
			66	65.0	65.0
		96	42	65.0	72.0
			48	65.0	69.0
			54	65.0	66.0
			60	63.0	63.0
			66	60.0	60.0
144	96	72	42	65.0	77.0
			48	65.0	73.0
			54	65.0	70.0
			60	65.0	66.0
		84	42	65.0	70.0
			48	65.0	67.0
			54	64.0	64.0
			60	61.0	61.0
		96	42	64.0	64.0
			48	61.0	61.0
			54	59.0	59.0
			60	56.0	56.0



#3306 W/ (1) ST35 1X REINFORCEMENT

	I _x IN ⁴	S _x IN ³
ALUMINUM	4.7474	1.9932
STEEL	5.3333	2.666
TOTAL	20.2141	—
I _x ALUM + STL X 2.9		



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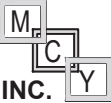
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p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

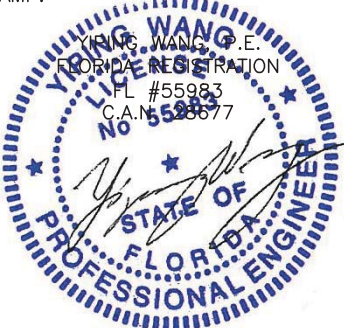
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
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STAMP:



August 01st, 2023

SHEET TITLE:

E11

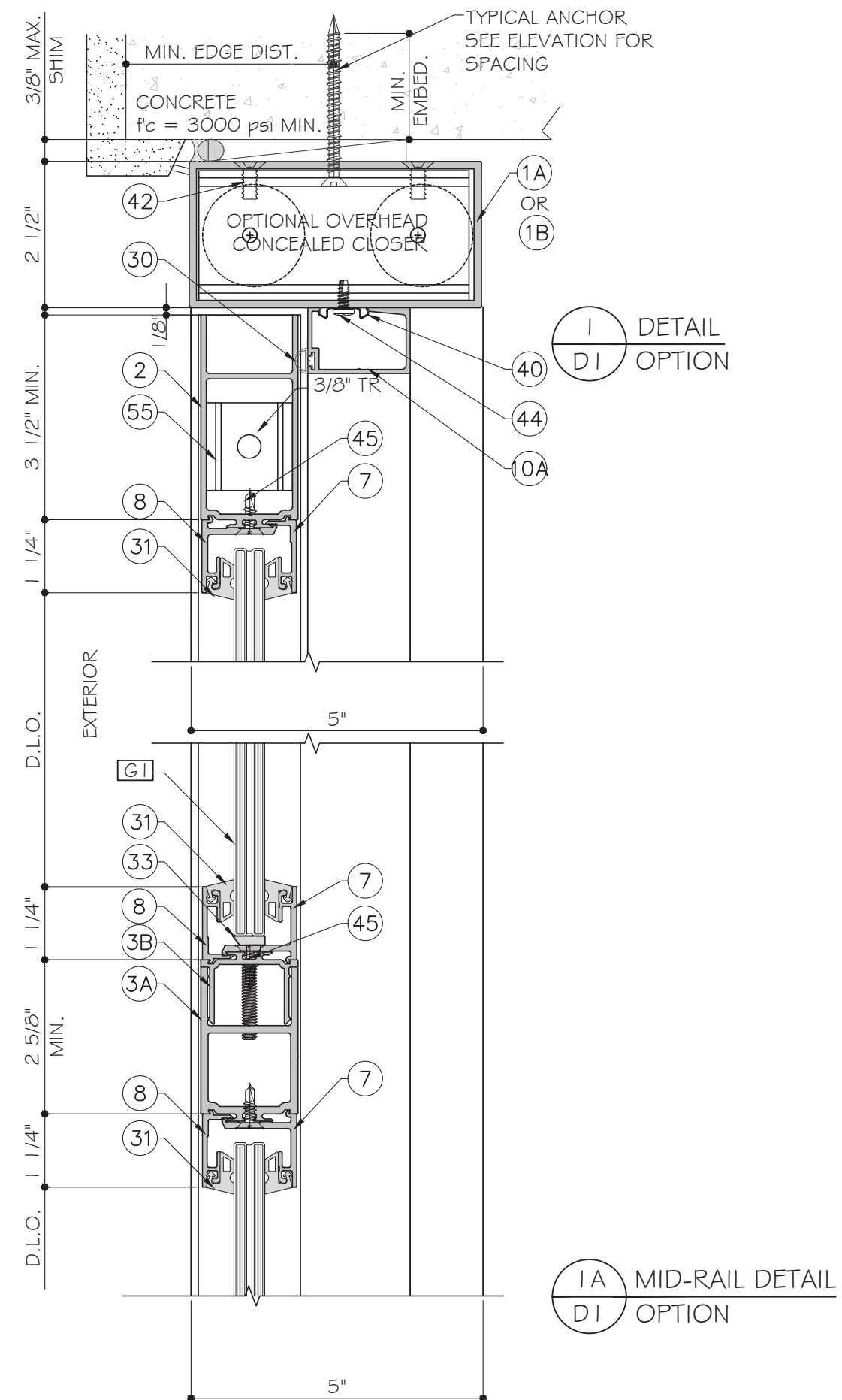
FLORIDA APPROVAL:

FL# 21892

DRAWN: James	12 OF 23
DATE: 08.01.23	
DWG: AD16-33	

DOOR JAMB MULLION CAPACITY - PSF FOR 102" DOOR HEIGHT						DOOR JAMB MULLION CAPACITY - PSF FOR 108" DOOR HEIGHT						DOOR JAMB MULLION CAPACITY - PSF FOR 114" DOOR HEIGHT						DOOR JAMB MULLION CAPACITY - PSF FOR 120" DOOR HEIGHT													
NOMINAL DIMENSIONS				DESIGN LOAD		NOMINAL DIMENSIONS				DESIGN LOAD		NOMINAL DIMENSIONS				DESIGN LOAD		NOMINAL DIMENSIONS				DESIGN LOAD									
FRAME HEIGHT (L) (IN)	DOOR HEIGHT (A) (IN)	DOOR WIDTH (W1) (IN)	SIDELITE WIDTH (W2) (IN)	PSF +	PSF -	FRAME HEIGHT (L) (IN)	DOOR HEIGHT (A) (IN)	DOOR WIDTH (W1) (IN)	SIDELITE WIDTH (W2) (IN)	PSF +	PSF -	FRAME HEIGHT (L) (IN)	DOOR HEIGHT (A) (IN)	DOOR WIDTH (W1) (IN)	SIDELITE WIDTH (W2) (IN)	PSF +	PSF -	FRAME HEIGHT (L) (IN)	DOOR HEIGHT (A) (IN)	DOOR WIDTH (W1) (IN)	SIDELITE WIDTH (W2) (IN)	PSF +	PSF -								
126	102	72	42	65.0	85.0	132	108	72	42	65.0	85.0	138	114	72	42	65.0	85.0	144	120	72	42	65.0	85.0								
			48	65.0	85.0				48	65.0	85.0				48	65.0	85.0				48	65.0	83.0								
			54	65.0	85.0				54	65.0	85.0				54	65.0	81.0				54	65.0	78.0								
			60	65.0	83.0				60	65.0	80.0				60	65.0	76.0				60	65.0	73.0								
			66	65.0	79.0				66	65.0	75.0				66	65.0	71.0				66	65.0	69.0								
		84	42	65.0	85.0			84	42	65.0	85.0			84	42	65.0	84.0			84	42	65.0	80.0	84	42	65.0	80.0	84	42	65.0	76.0
			48	65.0	85.0				48	65.0	84.0				48	65.0	80.0				48	65.0	76.0		48	65.0	73.0				
			54	65.0	82.0				54	65.0	79.0				54	65.0	76.0				54	65.0	73.0								
			60	65.0	78.0				60	65.0	75.0				60	65.0	71.0				60	65.0	69.0								
			66	65.0	74.0				66	65.0	71.0				66	65.0	67.0				66	65.0	65.0								
		96	42	65.0	85.0			96	42	65.0	81.0			96	42	65.0	77.0			96	42	65.0	74.0	96	42	65.0	74.0	96	42	65.0	70.0
			48	65.0	81.0				48	65.0	77.0				48	65.0	74.0				48	65.0	70.0								
			54	65.0	77.0				54	65.0	74.0				54	65.0	70.0				54	65.0	67.0								
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132	102	72	42	65.0	85.0	138	108	72	42	65.0	85.0	144	114	72	42	65.0	85.0	144	120	72	42	65.0	85.0								
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			66	65.0	74.0				66	65.0	71.0				66	65.0	68.0				66	65.0	68.0								
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		96	42	65.0	75.0			96	42	65.0	70.0			96	42	65.0	66.0			96	42	65.0	67.0	96	42	65.0	64.0				
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			54	65.0	68.0				54	65.0	63.0				54	65.0	60.0				54	61.0	61.0								
			60	65.0	65.0				60	65.0	60.0				60	65.0	60.0				60	58.0	58.0								
			66	65.0	61.0				66	65.0	58.0				66	65.0	58.0				66	58.0	58.0								
144	102	72	42	65.0	80.0			72	42	65.0	76.0			72	42	65.0	72.0			72	42	65.0	73.0								
			48	65.0	76.0				48	65.0	72.0				48	65.0	68.0				48	65.0	69.0								
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			60	65.0	68.0				60	65.0	65.0				60	65.0	62.0				60	65.0	64.0								
			66	65.0	64.0				66	65.0	60.0				66	65.0	60.0				66	65.0	64.0								
		84	42	65.0	73.0			84	42	65.0	70.0			84	42	65.0	66.0			84	42	65.0	67.0								
			48	65.0	69.0				48	65.0	66.0				48	65.0	63.0				48	64.0	64.0								
			54	65.0	66.0				54	65.0	63.0				54	65.0	60.0				54	61.0	61.0								
			60	60.0	60.0				60	60.0	60.0																				

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p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REV#	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

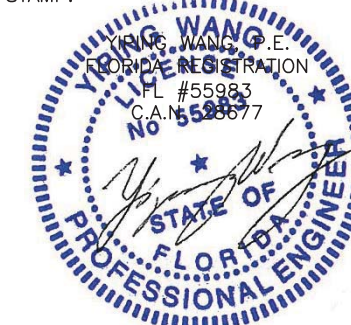
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:



August 01st, 2023

SHEET TITLE:

D1

FLORIDA APPROVAL:

FL# 21892

DRAWN: James

DATE: 08.01.23

DWG: AD16-33

14 OF 23



**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

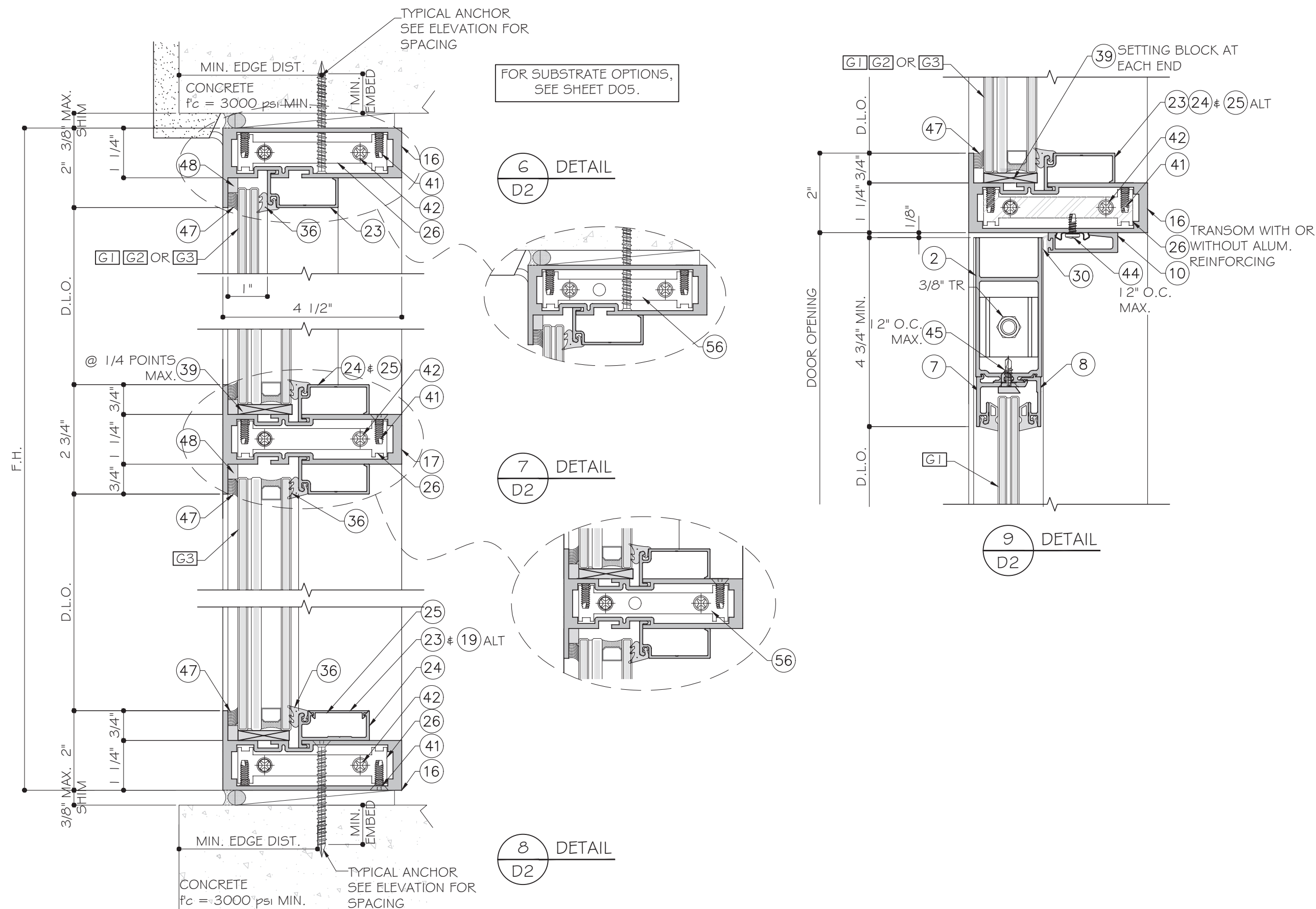
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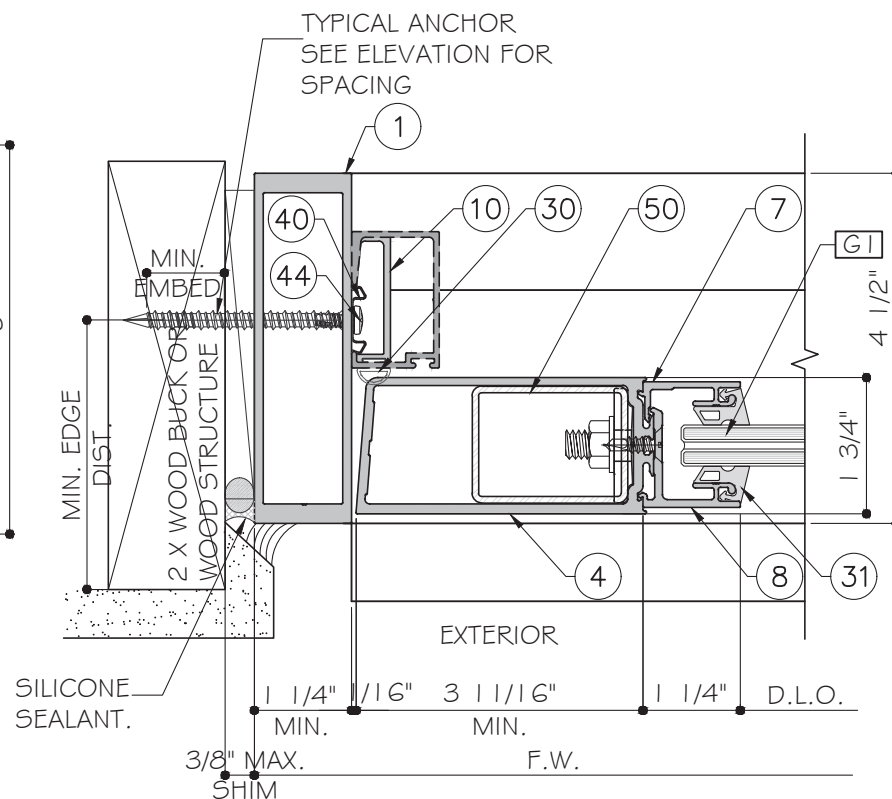
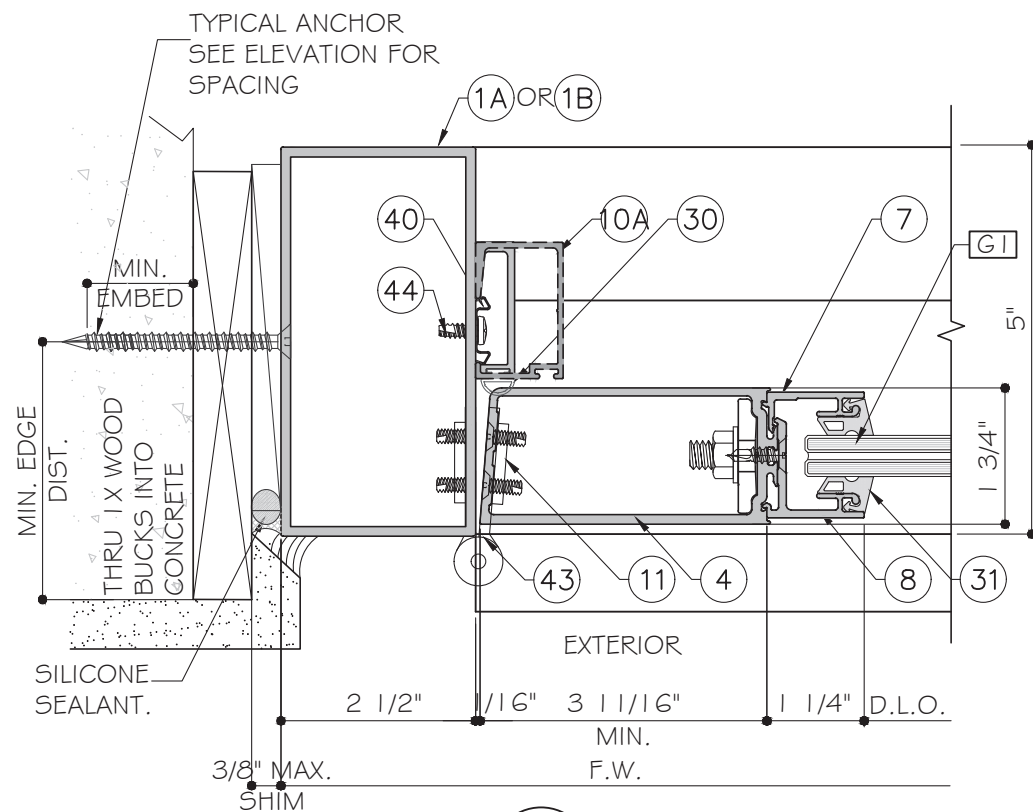
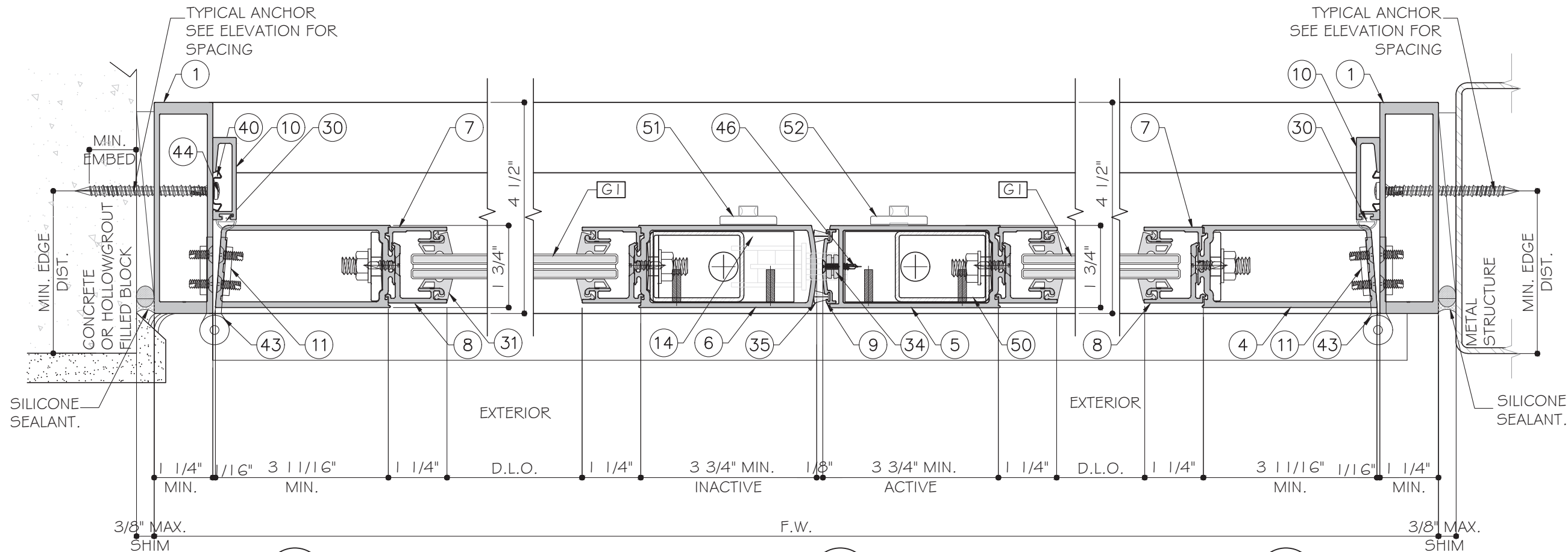
YUNG WANG, P.E.
FLORIDA REGISTRATION
FL #555983
C.A.N. 555977

D2

FL# 21892

15 OF 23





NOTE:
WOOD BUCK BY OTHERS MUST BE DESIGNED AND ANCHORED PROPERLY TO TRANSFER THE LOADS FROM GLAZING SYSTEM TO SUBSTRATE.

PRODUCT:

**351X SERIES
OUTSWING
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SHEET TITLE:

D3

FLORIDA APPROVAL:

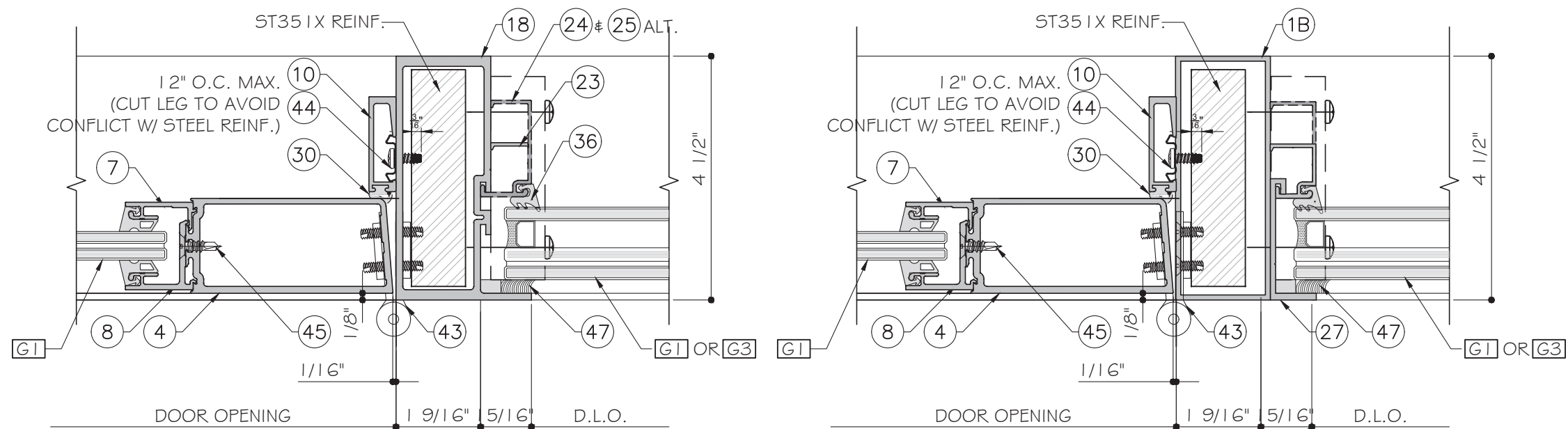
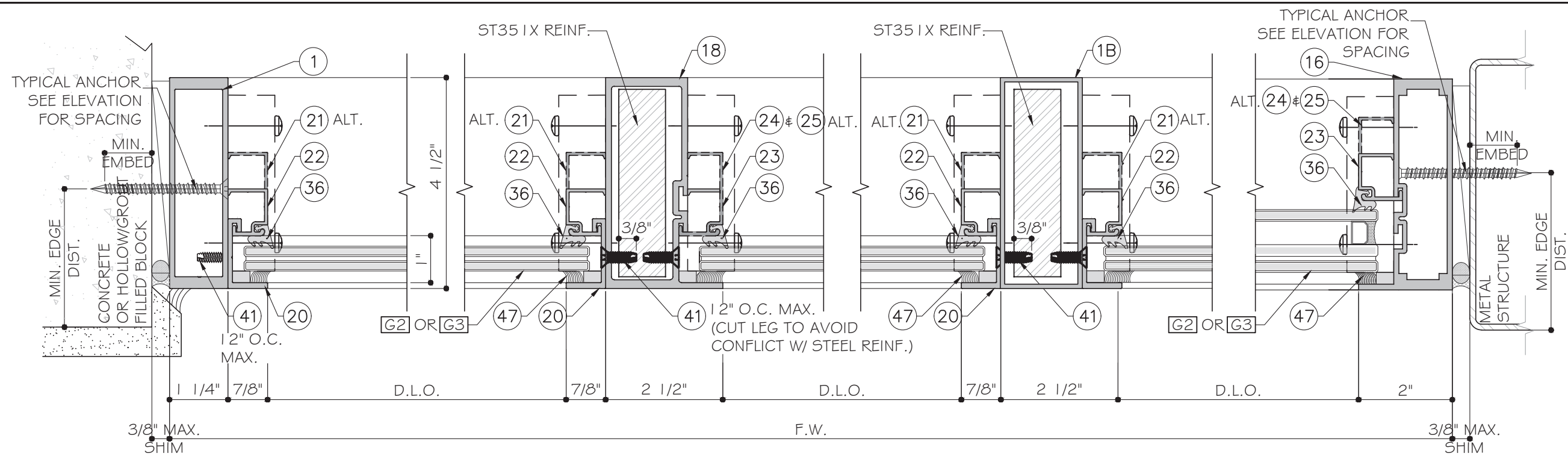
FL# 21892

DRAWN: James

DATE: 08.01.23

DWG: AD16-33

16 OF 23



PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

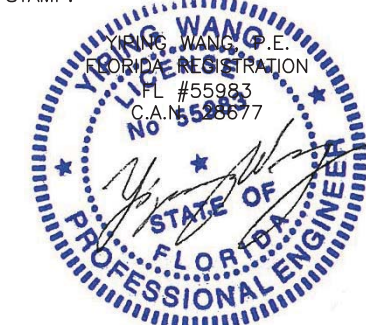
ENGINEER:



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SHEET TITLE:

D4

FLORIDA APPROVAL:

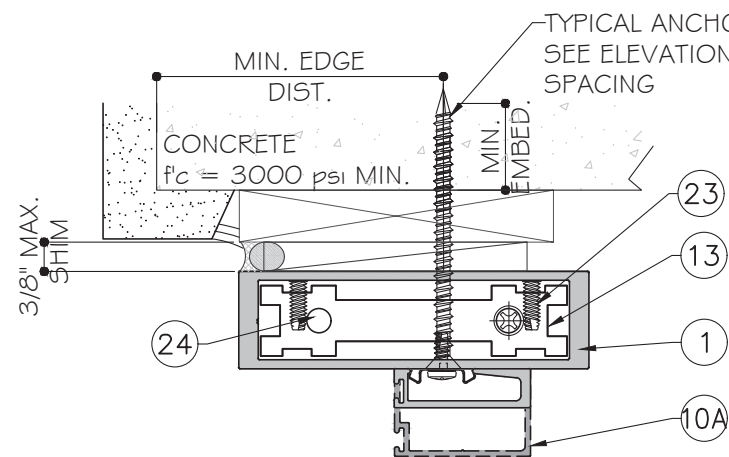
FL# 21892

DRAWN: James

DATE: 08.01.23

DWG: AD16-33

17 OF 23



TYPICAL ANCHORS:
SEE ELEVATIONS FOR SPACING

TYPE 'AA' - 1/4" ITW TAPCON (Fu= 120 ksi, Fy= 92 ksi)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION INTO WOOD
OR THRU 1 BY WOOD BUCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-1/4" MIN. EMBED INTO HOLLOW BLOCK (JAMB ONLY)

TYPE 'A' - 1/4 ITW TAPCON (Fu= 120 ksi, Fy=92 ksi)
WITH 1 3/4" EMBED INTO CONCRETE
OR 1-1/4" MIN. EMBED INTO MASONRY (JAMB ONLY)

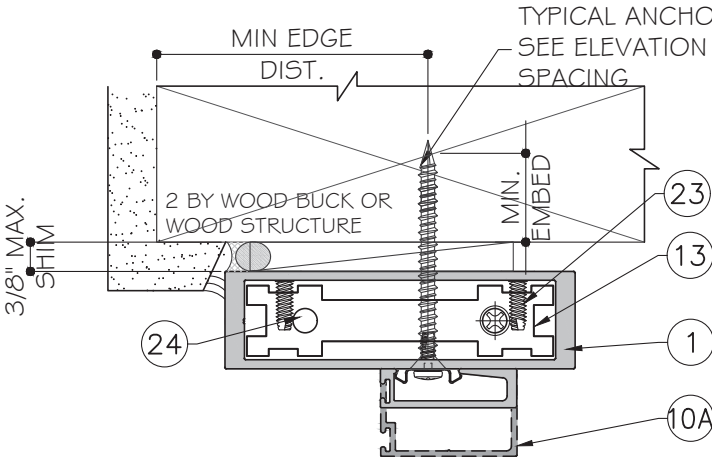
TYPE 'BB' - 1/4" DEWALT ULTRACON+ (Fu= 164 ksi, Fy= 148 ksi)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION INTO WOOD
OR THRU 1 BY WOOD BUCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)
1-1/4" EMBED INTO HOLLOW BLOCK (JAMB ONLY)

TYPE 'B' - 1/4" DEWALT ULTRACON+ (Fu= 164 ksi, Fy= 148 ksi)
WITH 1 3/4" EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK
1-1/4" EMBED INTO HOLLOW BLOCK (JAMB ONLY)

TYPE 'C' - #14 SMS (GRADE 2) INTO:
1/8" THK METAL STRUCTURE
ALUM. 18" THK. (6063-T5 MIN.)
STEEL: 12 GA MIN. THK.

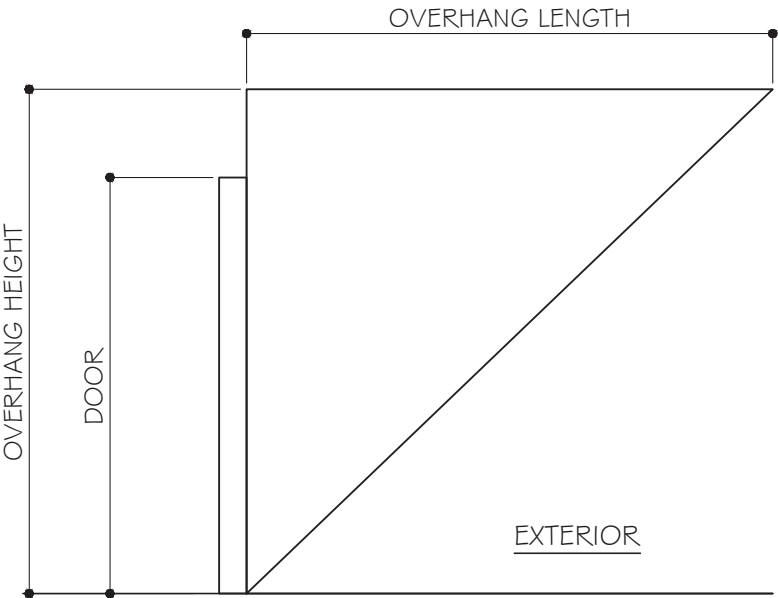
TYPE 'D' - #14 TEKS (GRADE 5, SELF DRILLING SCREW) INTO:
1/8" THK METAL STRUCTURE
ALUM. 18" THK. (6063-T5 MIN.)
STEEL: 12 GA MIN. THK.

MIN. EDGE DISTANCE:
INTO WOOD = 1"
INTO CONCRETE/BLOCK = 2 1/2"
INTO METAL = 3/4"



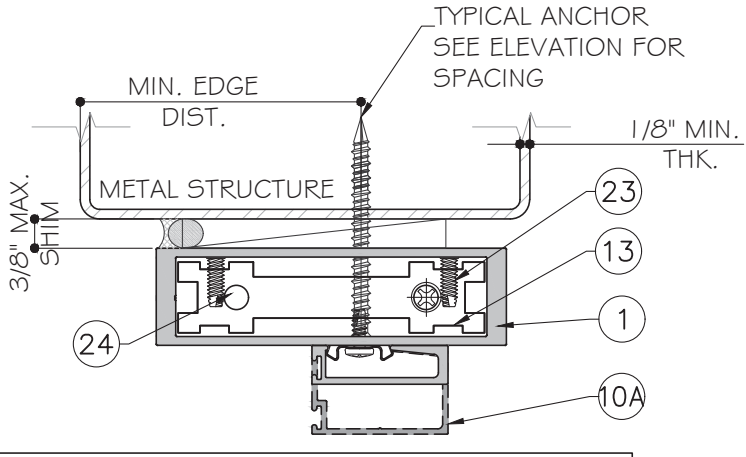
SUBSTRATE:

CONCRETE AT HEAD/SILL/JAMB: f'c'= 3KSI MIN.
C-90 HOLLOW/GROUT FILLED BLOCK AT JAMB ONLY: f'm = 2KSI MIN.
WOOD AT HEAD/JAMB: SG=0.55
STEEL: 1/8" MIN. THK., A36 MIN. (HEAD/JAMB)



OH RATIO = $\frac{\text{OVERHANG LENGTH}}{\text{OVERHANG HEIGHT}} \geq 1$

NOTE:
UNITS NOT APPROVED FOR WATER INFILTRATION MUST BE INSTALLED AT
LOCATIONS PROTECTED BY AN OVERHANG MEETING CRITERIA AS PER
ILLUSTRATION ABOVE OR IN NON-HABITABLE AREAS WHERE WATER
INFILTRATION IS ACCEPTABLE.



NOTE:
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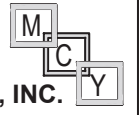
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p. 800-432-8132

PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REVN	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

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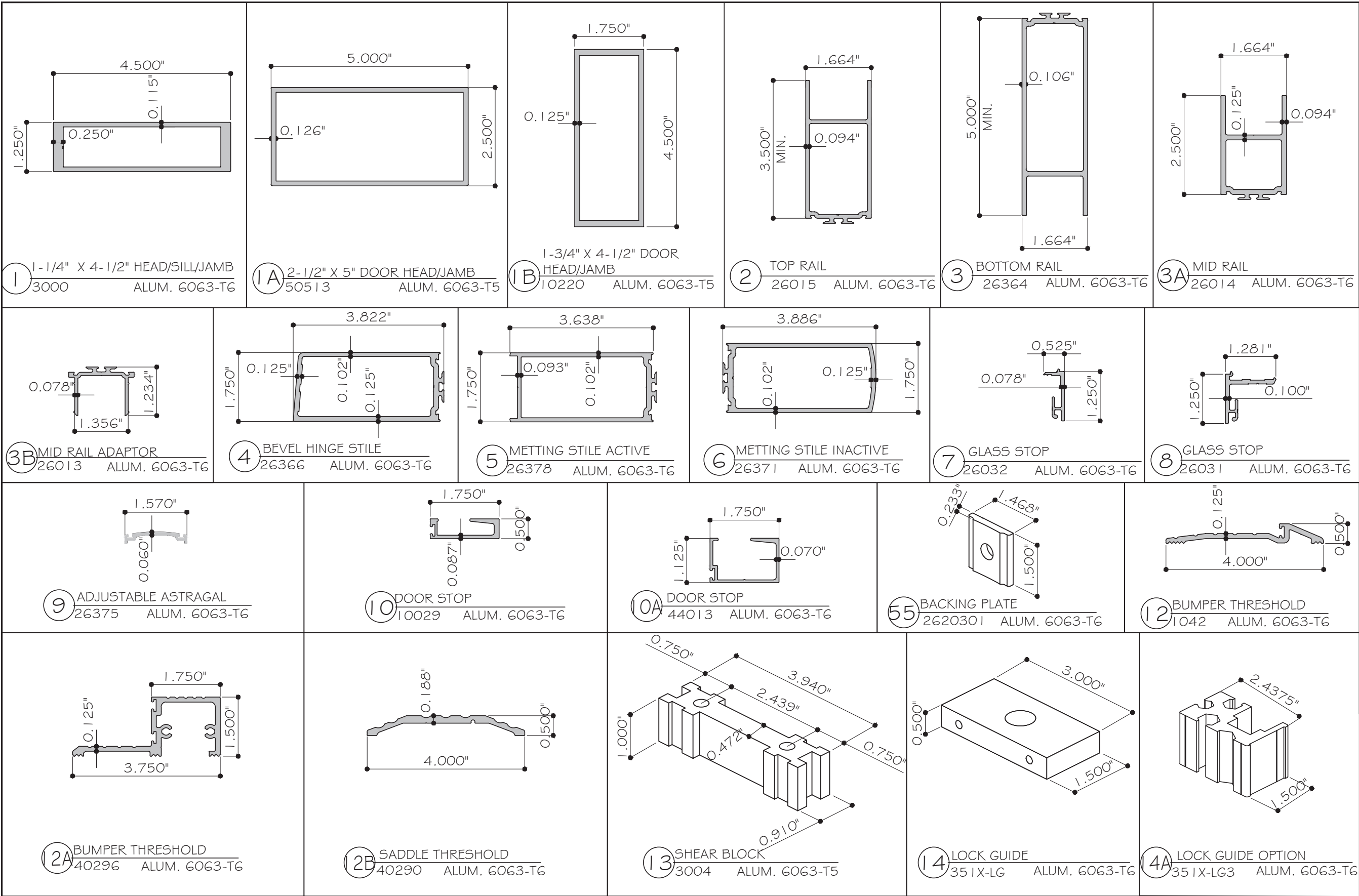
SHEET TITLE:

A1

FLORIDA APPROVAL:

FL# 21892

DRAWN: James	18 OF 23
DATE: 08.01.23	
DWG: AD16-33	





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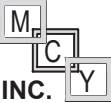
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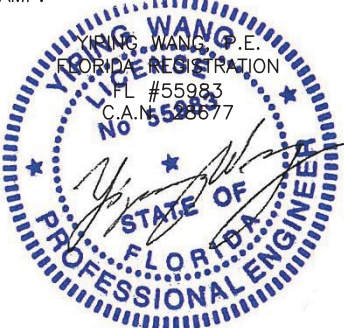
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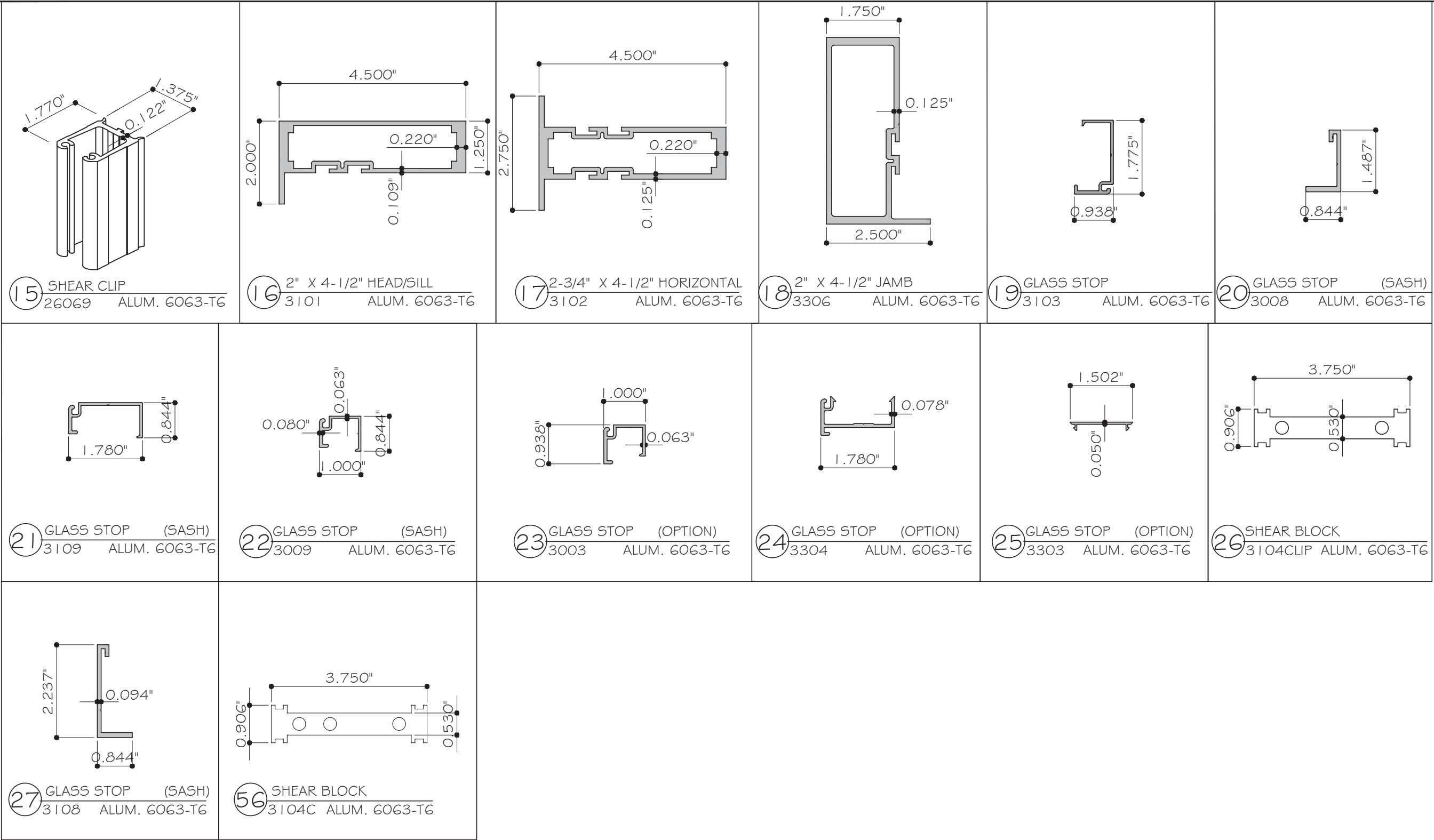
SHEET TITLE:

PARTS

FLORIDA APPROVAL:

FL# 21892

DRAWN: James	19 OF 23
DATE: 08.01.23	
DWG: AD16-33	



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STAMP:

YOUNG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A. #528677

August 01st, 2023

SHEET TITLE:

PARTS

FLORIDA APPROVAL:

FL# 21892

DRAWN: James	20 OF 23
DATE: 08.01.23	
DWG: AD16-33	

BILL OF MATERIAL				
NO.	PART NUMBERS	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
I	3000	I - 1/4" x 4-1/2" DOOR HEAD/JAMB	ALUM. 6063-T6	BONNELL
1A	50513	2-1/2" X 5" DOOR HEAD/JAMB	ALUM. 6063-T5	BONNELL
1B	10220	1-3/4" X 4-1/2" DOOR HEAD/JAMB	ALUM. 6063-T5	BONNELL
2	26015	3-1/2" MIN. TOP RAIL	ALUM. 6063-T6	BONNELL
3	26364	5" MIN. BOTTOM RAIL	ALUM. 6063-T6	BONNELL
3A	26014	MID RAIL	ALUM. 6063-T6	BONNELL
3B	26013	MID RAIL ADAPTOR	ALUM. 6063-T6	BONNELL
4	26366	BEVEL HINGE STILE	ALUM. 6063-T6	BONNELL
5	26378	MEETING STILE - ACTIVE	ALUM. 6063-T6	BONNELL
6	26371	MEETING STILE - INACTIVE	ALUM. 6063-T6	BONNELL
7	26032	GLASS STOP	ALUM. 6063-T6	BONNELL
8	26031	GLASS STOP	ALUM. 6063-T6	BONNELL
9	26375	ADJUSTABLE ASTRAGAL	ALUM. 6063-T6	BONNELL
10	10029	DOOR STOP (1046A)	ALUM. 6063-T6	BONNELL
10A	44013	OPTIONAL DOOR STOP FOR CONCEALED OVERHEAD CLOSER	ALUM. 6063-T6	BONNELL
11	26139	HINGE BACKING PLATE	STEEL	EVANS, INSIDE EACH PANEL HINGE STILE @ EACH HINGE LOCATION
12	1042	4" BUMPER THRESHOLD - ADA	ALUM. 6063-T6	BONNELL
12A	40296	1 1/2" X 3 3/4" BUMPER THRESHOLD	ALUM. 6063-T6	BONNELL
13	3004	SHEAR BLOCK	ALUM. 6063-T5	BONNELL
14	351X-LG	LOCK GUIDE	ALUM. 6063-T6	BONNELL
14A	351X-LG3	LOCK GUIDE (OPTION)	ALUM. 6063-T6	BONNELL
15	26069	SHEAR CLIP	ALUM. 6063-T6	BONNELL
16	3101	HEAD/SILL/JAMB	ALUM. 6063-T6	BONNELL
17	3102	INT. HORIZONTAL	ALUM. 6063-T6	BONNELL
18	3306	DOOR JAMB MULLION	ALUM. 6063-T6	BONNELL
19	3103	GLASS STOP	ALUM. 6063-T6	BONNELL
20	3008	GLASS STOP SASH	ALUM. 6063-T6	BONNELL
21	3109	TRANSOM GLASS STOP	ALUM. 6063-T6	BONNELL
22	3009	TRANSOM GLASS STOP	ALUM. 6063-T6	BONNELL
23	3003	TRANSOM GLASS STOP OPTION	ALUM. 6063-T6	BONNELL
24	3304	TRANSOM GLASS STOP	ALUM. 6063-T6	BONNELL
25	3303	TRANSOM GLASS STOP COVER	ALUM. 6063-T6	BONNELL
26	3104CLIP	SHEAR BLOCK	ALUM. 6063-T6	BONNELL
27	3108	GLASS STOP	ALUM. 6063-T6	BONNELL
30	RG-5	DOOR STOP GASKET	EPDM(DUROMETER 65 SHORE A)	TREMCO/GRP
31	RG-15	DOOR GASKET	EPDM(DUROMETER 70 SHORE A)	TREMCO/GRP
32	24120	GASKET FOR 1042 BUMPER THRESHOLD	EPDM(DUROMETER 60 SHORE A)	TREMCO/GRP
33	SPACER2	PVC SETTING BLOCK FOR 9/16" GLASS	PVC PLASTIC	M&M PLASTICS
34	23301	RUBBER GROMMET AT ASTRAGAL	NITRILE	RUBBERGROMMET.COM
35	24110	BRUSH PILE AT DOOR MEETING STILE	YARN	AMESBURY GROUP
36	RG-1	TRANSOM/SIDELIGHT GASKET	EPDM(DUROMETER 70 SHORE A)	TREMCO/GRP
37	H62D	EPDM SETTING BLOCK FOR 9/16" GLASS	EPDM(DUROMETER 85 ±5 SHORE A)	TREMCO/GRP
38	H62C	EPDM SETTING BLOCK FOR 9/16" GLASS	EPDM(DUROMETER 85 ±5 SHORE A)	TREMCO/GRP



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PRODUCT:

**351X SERIES
OUTSWING
OVERSIZED
ENTRANCE DOORS**
(LARGE MISSILE IMPACT)

REV N	DATE/REMARKS
REV 2	UPDATE TO FBC 2023

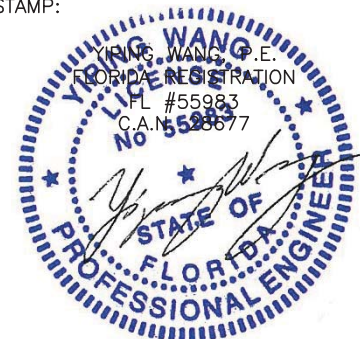
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

8501 SW 124 Ave. Ste. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:



August 01st, 2023

SHEET TITLE:

BOM

FLORIDA APPROVAL:

FL# 21892

DRAWN: James	21 OF 23
DATE: 08.01.23	
DWG: AD16-33	

BILL OF MATERIAL				
NO.	PART NUMBERS	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
39	H62F	EPDM SETTING BLOCK FOR 1-5/16" GLASS	EPDM(DUROMETER 85 ±5 SHORE A)	TREMCO/GRP
40	23501	SPRING CLIP	STEEL	EVANS
41	23163	SHEAR CLIP SCREWS #12-24 X 3/4" PFH-23	ZINC COATED STEEL	ALLOY FASTENER
42	23233	FRAME SCREWS 1/4"-20 X 1 1/2" LG. PPH-23	ZINC COATED STEEL	ALLOY FASTENER
43	26298	4 1/2" LG. SURFACE MOUNT BUTT HINGES	STEEL	HAGER / IMPERIAL USA(GLOBAL DOOR)
44	23097	SCREW AT SPRING CLIP, #10-24 X 1/2" PPH @ 12" O.C.	ZINC COATED STEEL	VARIES
45	23079	SCREW AT DOOR ADAPTOR, #10-24 X 3/4" UC-PFH23 @ 12" O.C.	ZINC COATED STEEL	VARIES
46	23302	SCREW AT ASTRAGAL PLATE, #6 X 3/4" UC-PFH TEK	ZINC COATED STEEL	VARIES
47	DOWSIL 795	DOWSIL 795 SILICONE	SILICONE	DOW CORNING
48	V2108	1/4" X 3/8" GLAZING TAPE	FOAM	ST. GOBAIN
50	ST351-1	1-1/2" X 2" X 14 GA. STEEL TUBE REINF.	STEEL	VARIES, INSIDE EACH PANEL LOCK STILE LOCATED @ 42" FROM BOTTOM
51	H1880	2 POINT LOCK SYSTEM HARDWARE	STEEL	ADAMS RITE, AT INACTIVE PANEL @ 36 9/16" FROM BOTTOM
52	FZ4588	3 POINT LOCK SYSTEM HARDWARE	STEEL	ADAMS RITE, AT ACTIVE PANEL @ 36 9/16" FROM BOTTOM
53	-	GLASS SPACER	ALUM.	HELIMA HELVETION INT./ VARIES
54	ST351X	1" X 4" STEEL BAR REINFORCEMENT	A36	VARIES
55	262030	BACKING PLATE	ALUM. 6063-T6	BONNELL
56	3104C	SHEAR BLOCK	ALUM. 6063-T6	BONNELL
57	ULTRAFAB E205	BUMPER THRESHOLD GASKET	THERMOPLASTIC ELASTOMERS(TPE)	ULTRAFAB



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

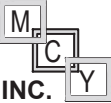
403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

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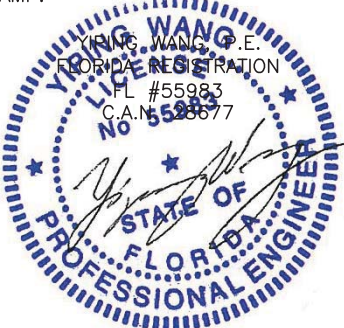
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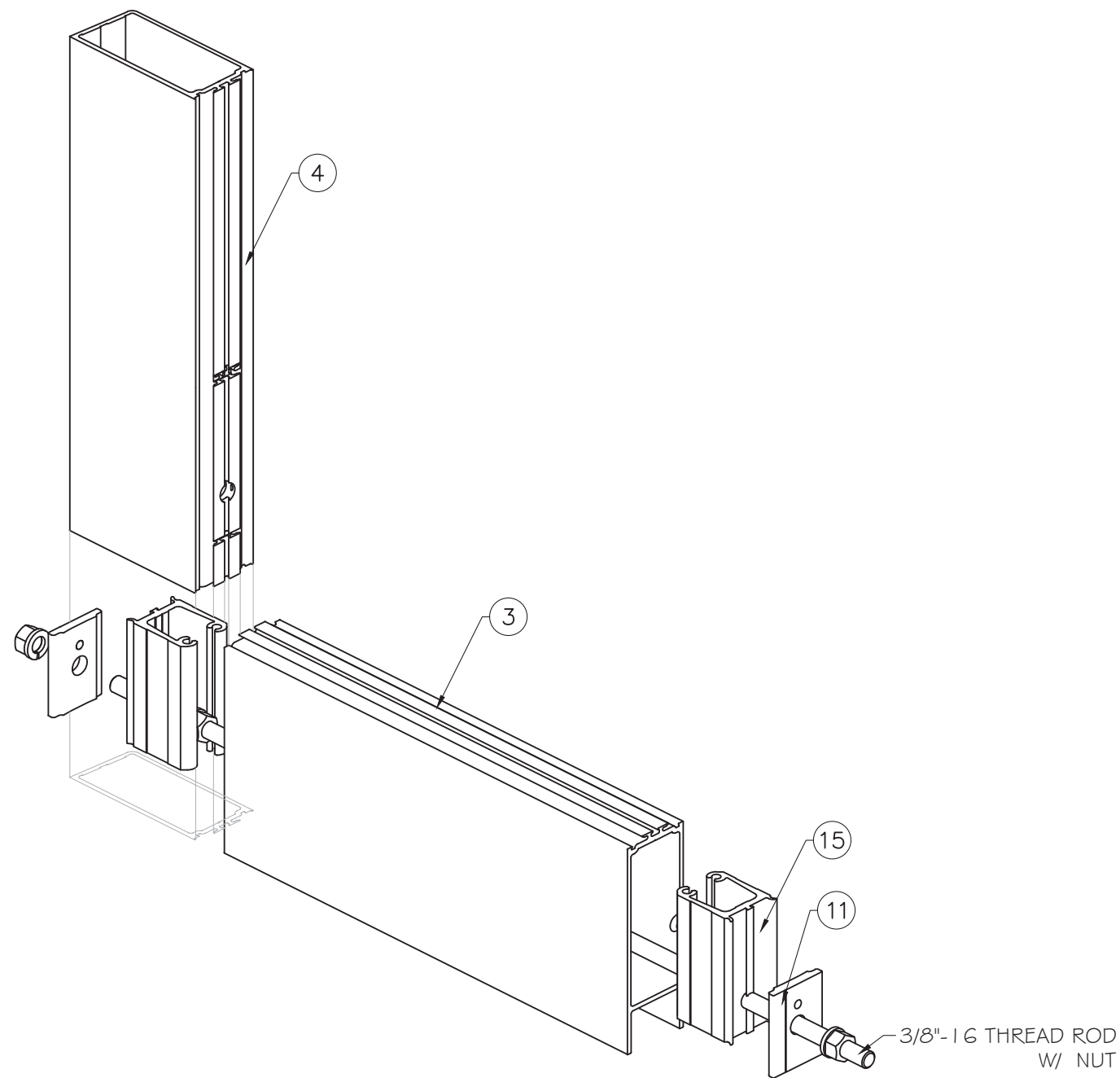
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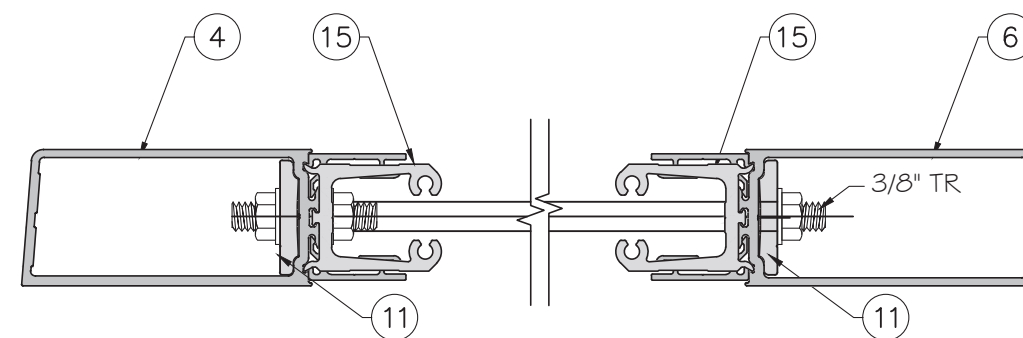
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SHEAR CLIP SETUP ISOMETRIC



SHEAR CLIP SETUP USING 26069 (AGA-2486)

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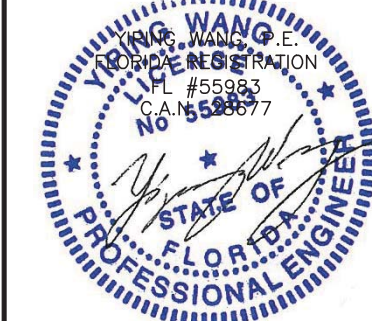
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