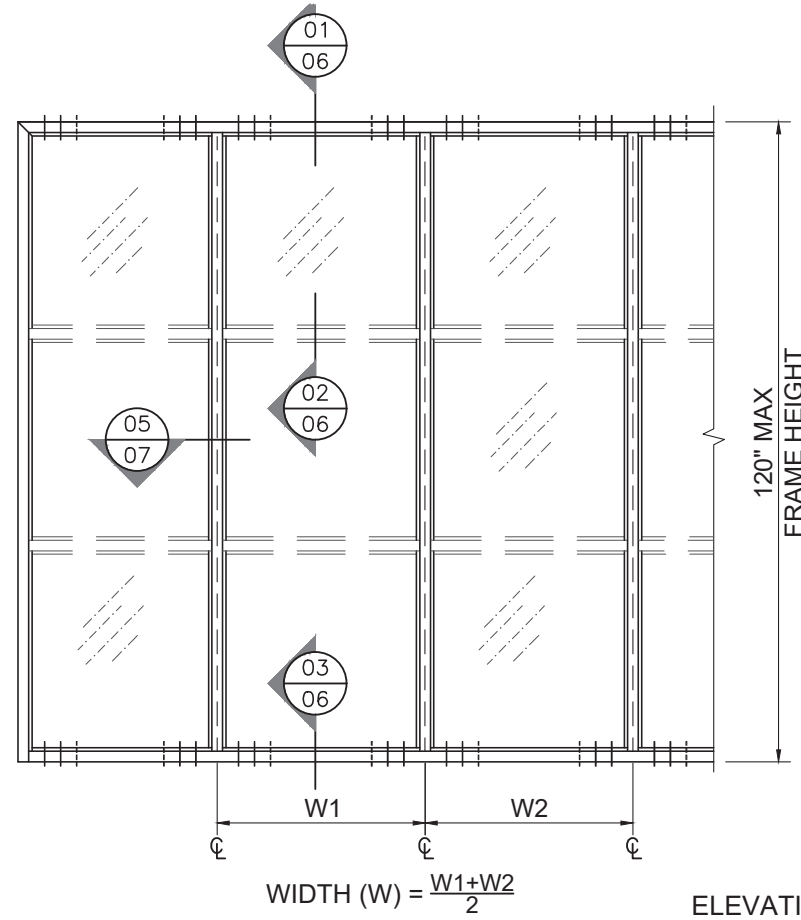
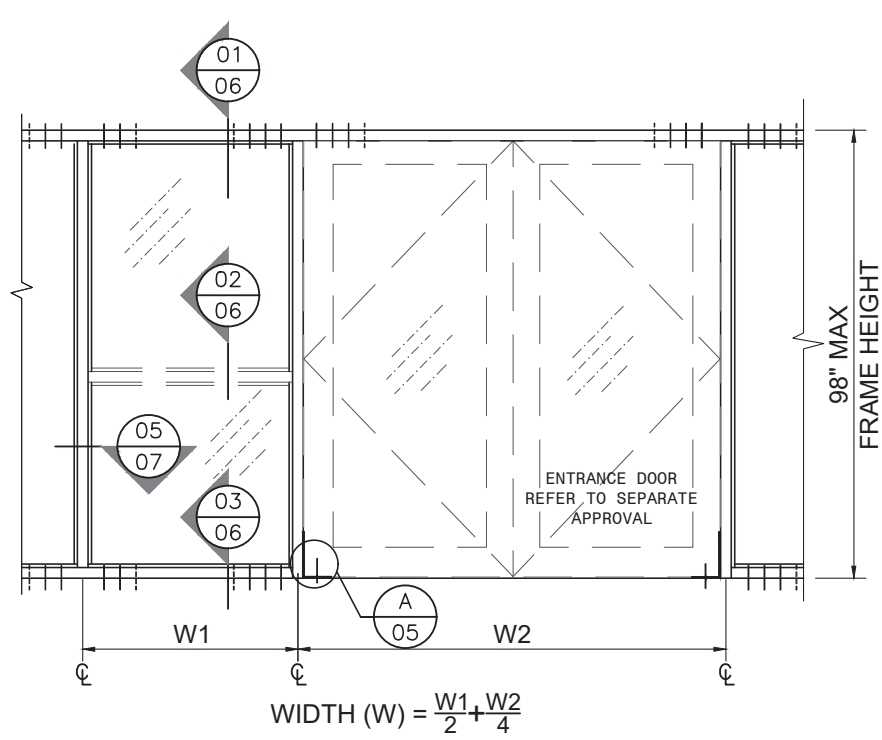
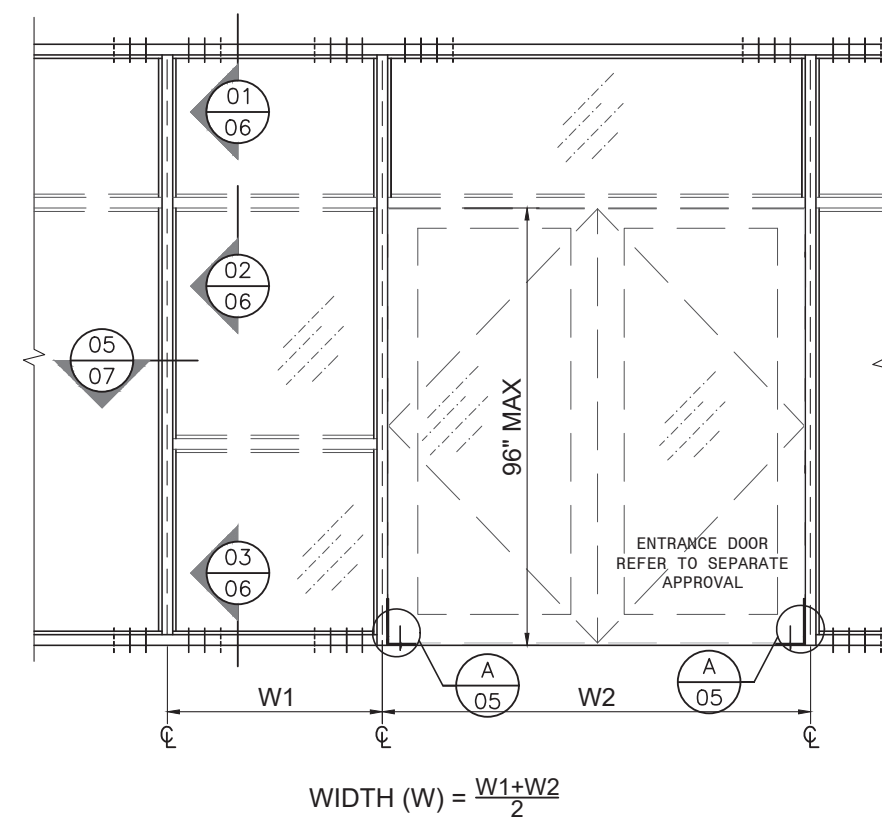
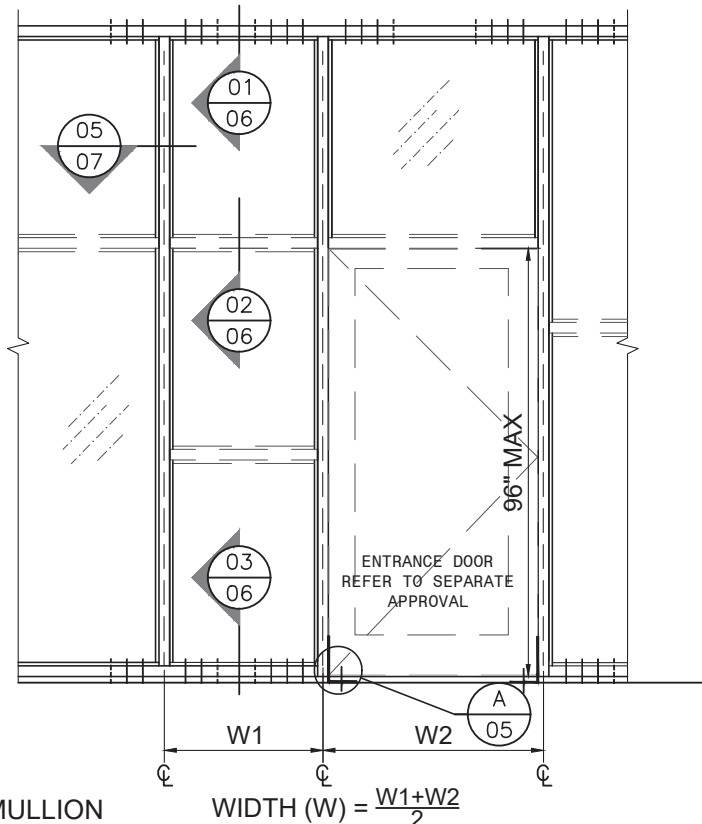




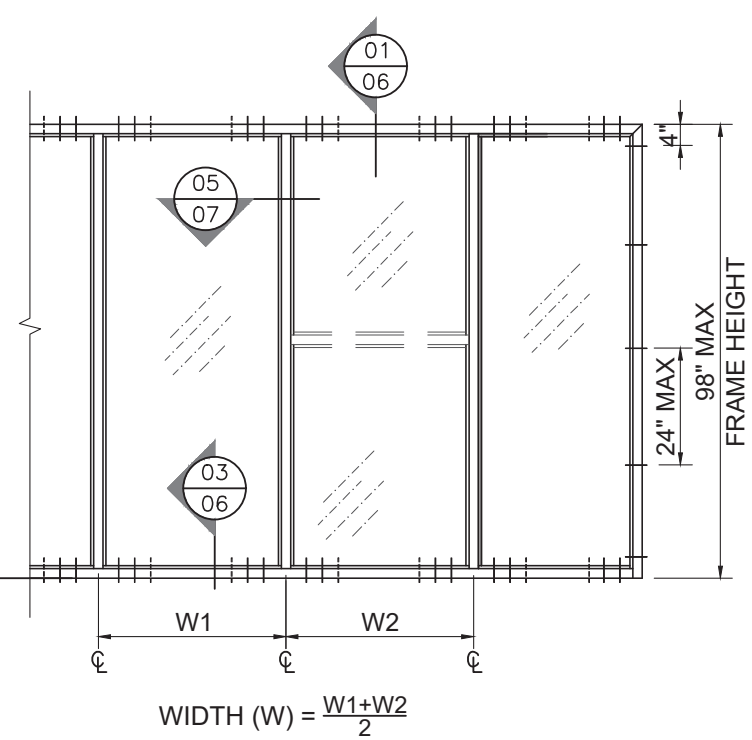
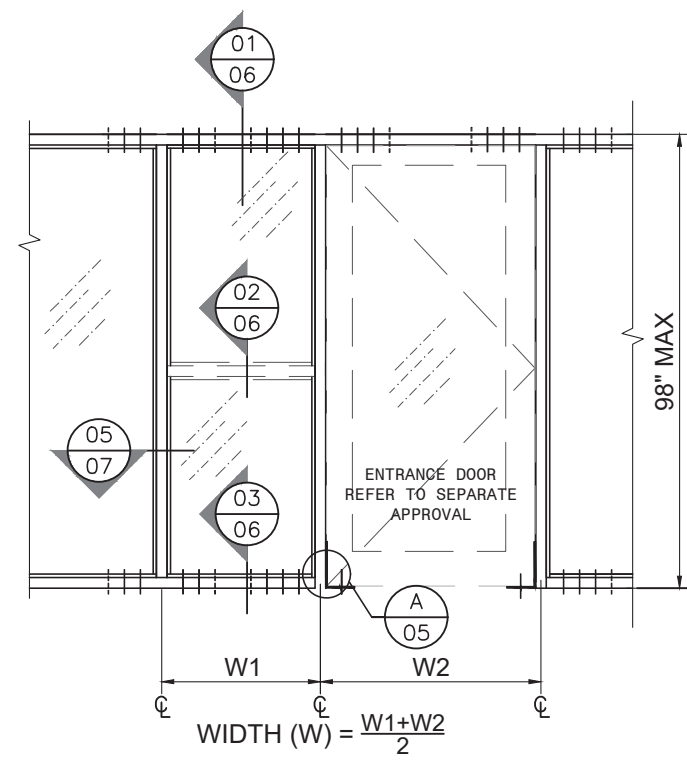
September 04th, 2023



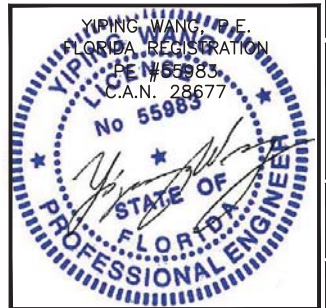
ELEVATIONS FOR MULLION
(WITH STEEL REINFORCEMENT)



ELEVATIONS FOR MULLION
(WITHOUT STEEL REINFORCEMENT)



FLORIDA APPROVAL:
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REVISIONS	
NO.	DATE DESCRIPTION
R2	09/04/2023 PBC 2023

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MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224

www.MCYEngineering.com MCY@mcyengineering.com

GENSTORM STEEL STOREFRONT SYSTEM - LMI & SMI

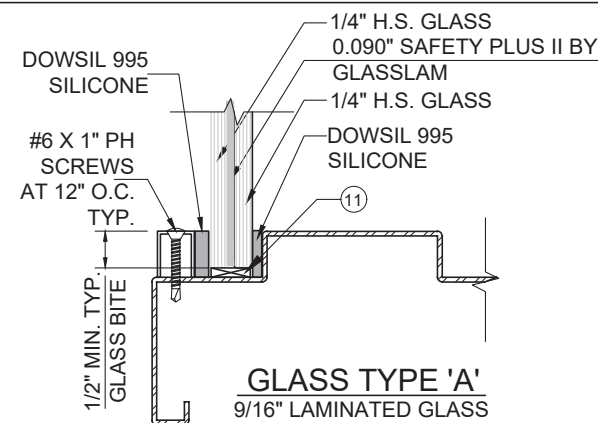
gensteeldoors
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4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6
Tel: (514) 733-3562 Fax: (514) 733-1932

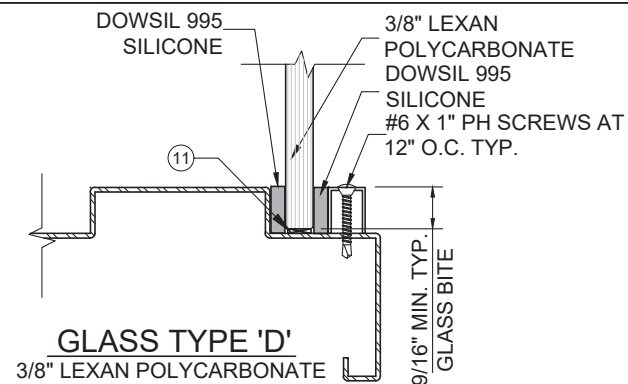
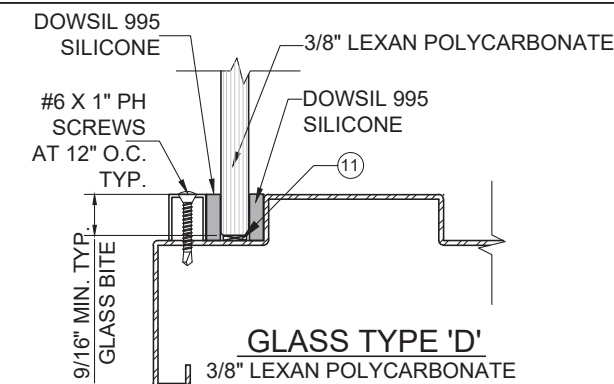
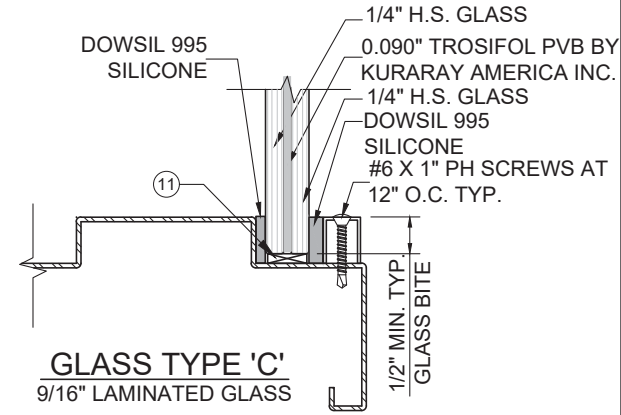
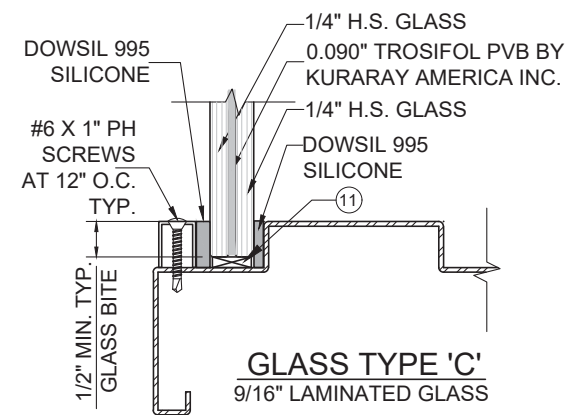
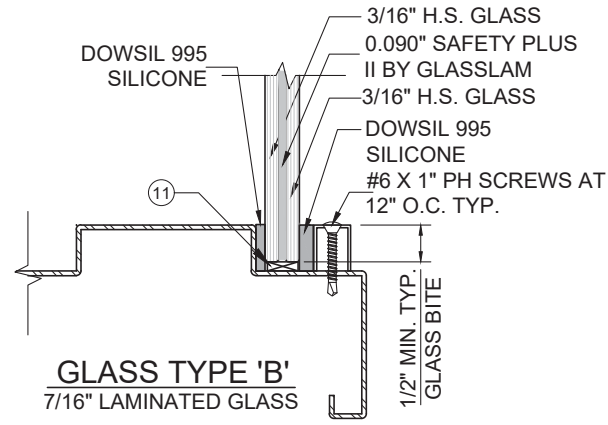
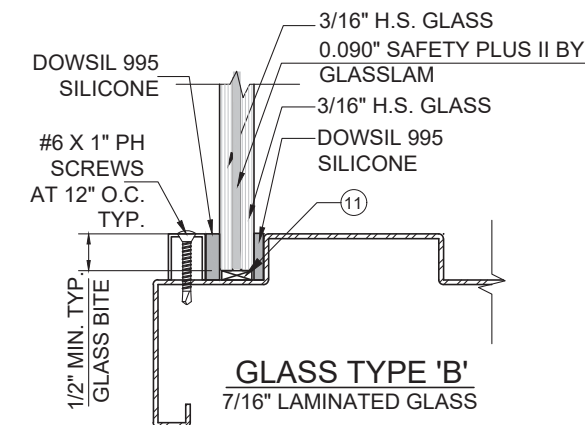
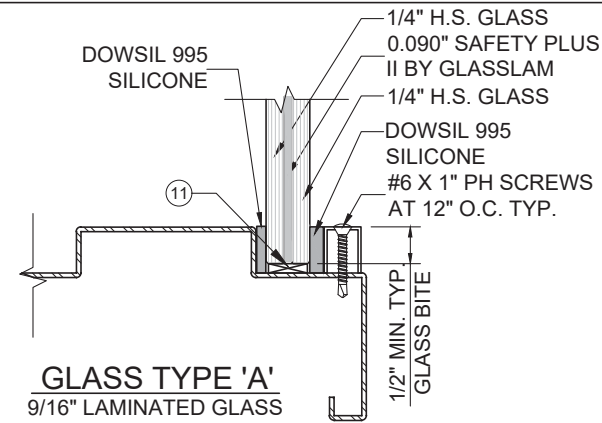
DATE	09/04/2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY 14-014

DRAWING NO.	AD14-01
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EXTERIOR GLAZED OPTION

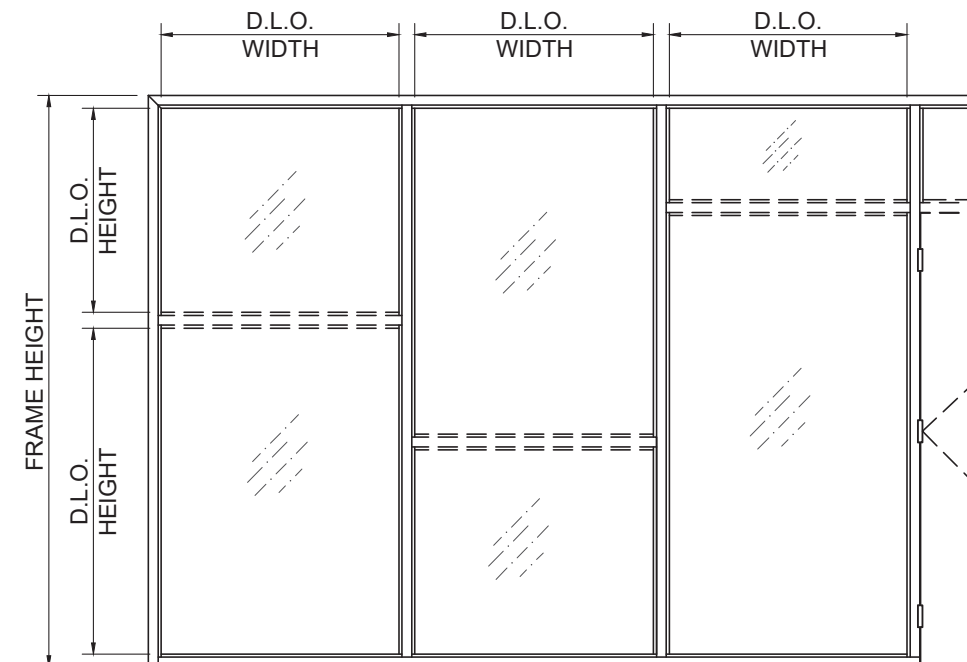


INTERIOR GLAZED OPTION



GLASS DESIGN LOAD CAPACITY - PSF					
D.L.O. WIDTH	D.L.O. HEIGHT	GLASS AREA	GLASS TYPES		
(IN)	(IN)	FT ²	"A" EXT.(+)/ INT.(-)	"B" EXT.(+)/ INT.(-)	"C" EXT.(+)/ INT.(-)
39	60	16.25	70	80	70
42		17.5	70	80	70
45		18.75	70	80	-
48		20	70	80	-
51		21.25	70	80	-
54		22.5	70	-	-
36	66	16.5	70	80	70
39		17.875	70	80	70
42		19.25	70	80	70
45		20.625	70	80	-
48		22	70	-	-
51		23.375	70	-	-
30	72	15.00	70	80	70
33		16.50	70	80	70
36		18.00	70	80	70
39		19.50	70	80	-
42		21.00	70	80	-
45		22.50	70	-	-
27	78	14.63	70	80	70
30		16.25	70	80	70
33		17.88	70	80	70
36		19.50	70	80	-
39		21.13	70	80	-
42		22.75	70	-	-

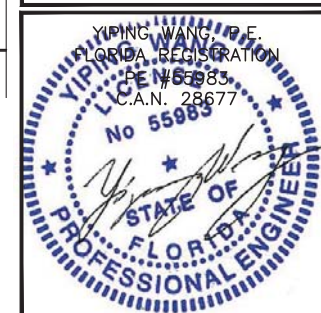
GLASS DESIGN LOAD CAPACITY - PSF					
D.L.O. WIDTH	D.L.O. HEIGHT	GLASS AREA	GLASS TYPES		
			"A"	"B"	"C"
(IN)	(IN)	FT ²	EXT.(+)/ INT.(-)	EXT.(+)/ INT.(-)	EXT.(+)/ INT.(-)
30.75	80.88	17.27	70	80	70
24	84	14.00	70	80	70
27		15.75	70	80	70
30		17.50	70	80	70
33		19.25	70	80	-
36		21.00	70	80	-
39		22.75	70	-	-
21	90	13.13	70	80	70
24		15.00	70	80	70
27		16.88	70	80	70
30		18.75	70	80	-
33		20.63	70	80	-
36		22.50	70	-	-
32.75	91.75	20.87	70	80	-
34.875	94.56	22.90	70	-	-
21	96	14.00	70	80	70
24		16.00	70	80	70
27		18.00	70	80	70
30		20.00	70	80	-
33		22.00	70	-	-



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

VALUES SHOWN ABOVE ARE MAXIMUM DAYLITE
OPENING DIMENSIONS. FOR GLASS. CONSULT WITH
CHARTS AT SHEET 4 FOR MULLION CAPACITY.

FLORIDA APPROVAL:
FL#34547.1



REVISIONS		
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GENSTORM STEEL STOREFRONT SYSTEM - LMI & SMI

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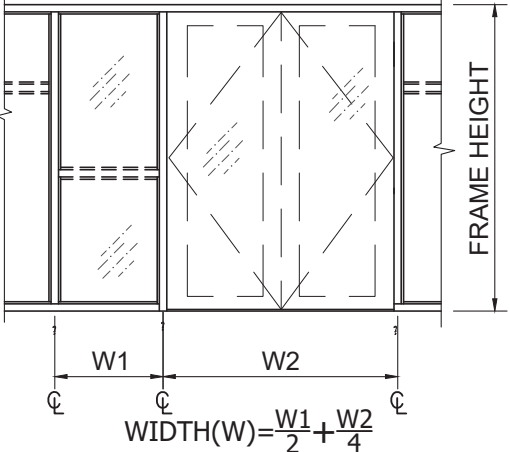
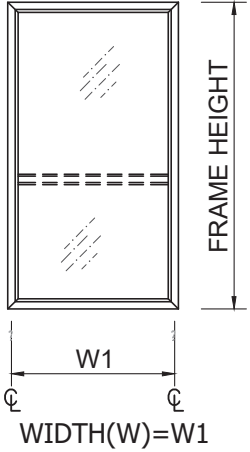
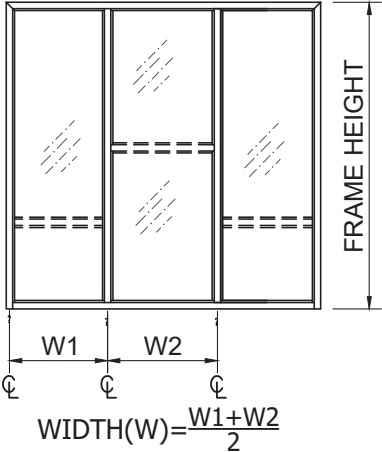
DATE	09/04/2023
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DRAWN	James
PROJECT	MCY 14-014

DRAWING NO.
AD14-01

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MULLION/JAMB LOAD CAPACITY - PSF				
NOMINAL DIMS.		FREE STANDING JAMB	UNREINF. MULLION	REINF. MULLION
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
IN	IN	PSF	PSF	PSF
24	72	70	70	80
27		70	70	80
30		70	70	80
33		70	70	80
36		70	70	80
39		70	70	80
42		70	70	80
45		70	70	80
48		70	70	80
51		70	-	80
54		70	-	80
57		70	-	80
60	78	70	-	80
24		70	70	80
27		70	70	80
30		70	70	80
33		70	70	80
36		70	70	80
39		70	70	80
42		70	70	80
45		70	70	80
48		70	-	80
51		70	-	80
54		70	-	80
24	84	70	70	80
27		70	70	80
30		70	70	80
33		70	70	80
36		70	70	80
39		70	70	80
42		70	70	80
45		70	-	80
48		70	-	80
51		70	-	80
24	90	70	70	80
27		70	70	80
30		70	70	80
33		70	70	80
36		70	70	80
39		70	70	80
42		70	-	80
45		70	-	80
48		70	-	80

MULLION/JAMB LOAD CAPACITY - PSF				
NOMINAL DIMS.		FREE STANDING JAMB	UNREINF. MULLION	REINF. MULLION
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
IN	IN	PSF	PSF	PSF
24	96	70	70	80
27		70	70	80
30		70	70	80
33		70	70	80
36		70	70	80
39		70	-	80
42		70	-	80
45		70	-	80
24	98	70	70	80
27		70	70	80
30		70	70	80
33		70	70	80
36		70	70	80
39		70	-	80
42		70	-	80
24	102	70	-	80
27		70	-	80
30		70	-	80
33		70	-	80
36		70	-	80
39		70	-	80
42		70	-	80
24	108	70	-	80
27		70	-	80
30		70	-	80
33		70	-	80
36		70	-	80
39		70	-	80
24	114	70	-	80
27		70	-	80
30		70	-	80
33		70	-	80
36		70	-	80
24	120	70	-	80
27		70	-	80
30		70	-	80
33		70	-	80
36		70	-	80



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHOR TYPE "AA":
1/4" TAPCON BY 'ITW' (Fu=120 ksi, Fy=92 Ksi)
1/4" ULTRACON+ BY 'DEWALT' (Fu=164 ksi, Fy=148 Ksi)
INTO 2BY WOOD BUCKS OR WOOD STRCUTURES
WITH 1 1/2" EMBEDMENT
OR THRU WOOD BUCK INTO CONCRETE OR MASONRY
WITH 1 3/4" EMBEDMENT
ANCHOR TYPE "A":
1/4" TAPCON BY 'ITW' (Fu=120 ksi, Fy=92 Ksi)
1/4" ULTRACON+ BY 'DEWALT' (Fu=164 ksi, Fy=148 Ksi)
1 3/4" EMBEDMENT INTO CONCRETE
1 3/4" EMBEDMENT INTO MASONRY (JAMB ONLY)
ANCHOR TYPE "BB":
5/16" ULTRACON BY 'DEWALT' (Fu=177 ksi, Fy=155 Ksi)
INTO 2BY WOOD BUCKS OR WOOD STRCUTURES
WITH 1 1/2" EMBEDMENT
OR THRU WOOD BUCK INTO CONCRETE OR MASONRY
WITH 1 3/4" EMBEDMENT
ANCHOR TYPE "B":
5/16" ULTRACON BY 'DEWALT' (Fu=177 ksi, Fy=155 Ksi)
1 3/4" EMBEDMENT INTO CONCRETE
1 3/4" EMBEDMENT INTO MASONRY (JAMB ONLY)

ANCHOR TYPE "C":
5/16" DIA. SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS) OR ST/ST
INTO METAL STRUCTURES
STEEL:1/8" THK (12GA.) MIN. (Fy=36 KSI)
ALUMINUM: 1/8" THK. (6063-T5 MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED.)

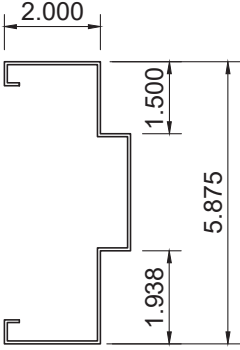
ANCHOR TYPE "D":
WIRE ANCHOR INTO GROUT FILLED BLOCK
SEE DETAIL 08/07 (JAMB ONLY)

ANCHOR TYPE "F":
ADJUSTABLE "T" ANCHOR INTO GROUT FILLED BLOCK
SEE DETAIL 10/08 (JAMB ONLY)

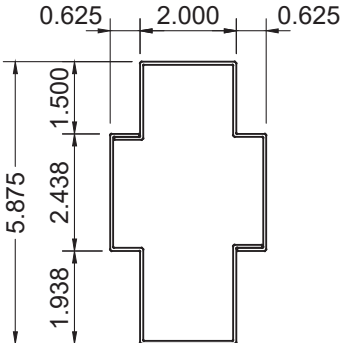
TYPICAL EDGE DISTANCE
INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
INTO WOOD STRUCTURE = 1 1/4" MIN.
INTO HOLLOW BLOCK = 4" MIN. FOR 1/4" TAPCON

INTO GROUT FILLED BLOCK = 2 1/2" MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMB fm'=2 KSI
CONCRETE AT HEAD, SILL OR JAMB fc'=3 KSI
2 1/2" MIN. FOR 1/4" ULTRACON
3 1/8" MIN. FOR 5/16" ULTRACON

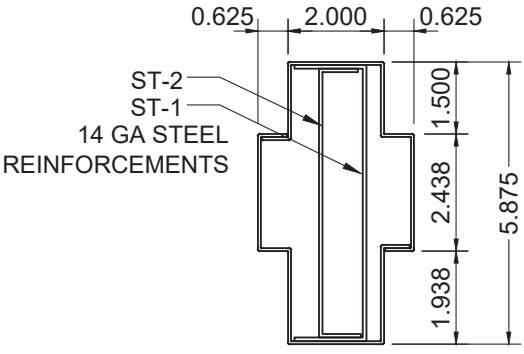
SEALANTS:
ALL FRAME CORNERS AND MULLION SEAMS
SEALED WITH SILICONE.



JAMB
Ix = 3.8211 in^4
Sx = 1.2911 in^3



UNREINF. MULLION
Ix =3.001 in^4
Sx = 1.0636 in^3



REINF. MULLION W/ ST-1 & ST-2
Ix = 7.508 in^4
Sx = 2.5953 in^3

FLORIDA APPROVAL:
FL#34547.1



September 04th, 2023

REVISIONS		DESCRIPTION
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MIRAMAR, FL 33027

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REVISIONS

NO. DATE DESCRIPTION

R2 09.04.2023 PBC 2023

GENSTORM STEEL STOREFRONT SYSTEM - LMI & SMI

gensteel

www.gensteeldoors.com

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Tel: (514) 733-3562 Fax: (514) 733-1932

DATE	09/04/2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY 14-014

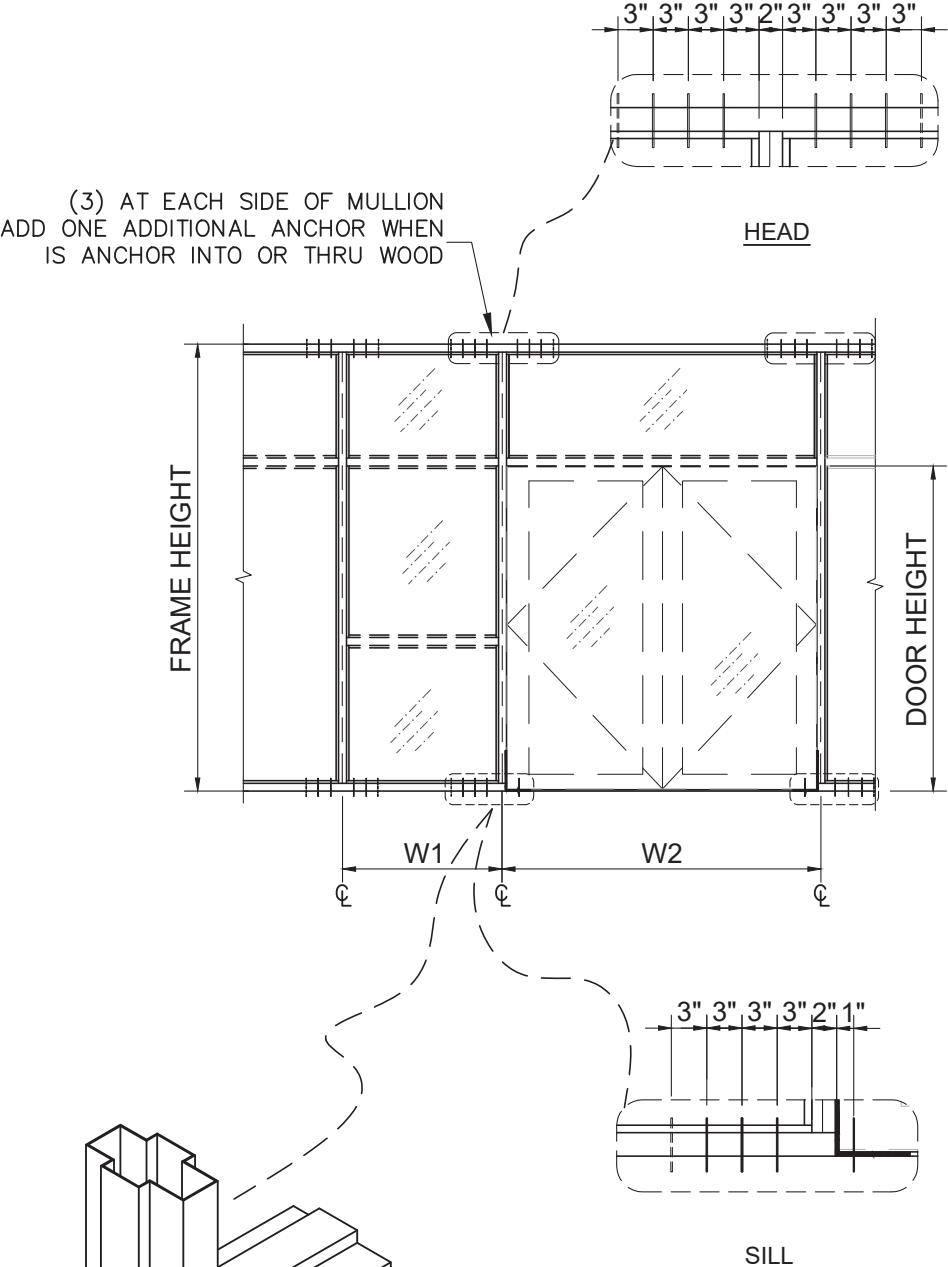
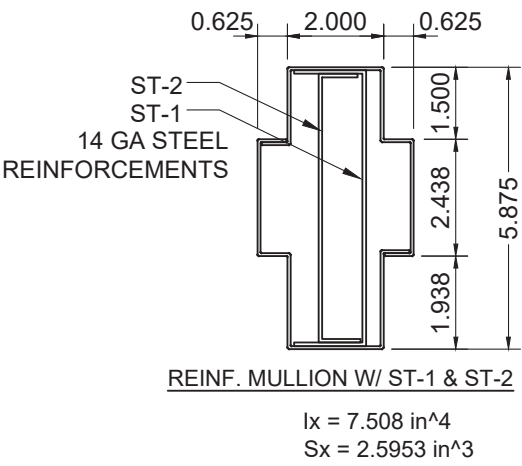
DRAWING NO.
AD14-01

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DOOR JAMB MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				LOADS -PSF
FRAME HEIGHT IN	DOOR HEIGHT IN	WIDTH (W2) IN	WIDTH (W1) IN	EXT.(+) INT.(-)
108	84	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	70
			36	70
		96	18	70
			24	70
			30	70
			36	67
114	84	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	70
			36	67
		96	18	70
			24	70
			30	66
			36	62
120	84	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	69
			30	65
			36	61
		96	18	66
			24	62

DOOR JAMB MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				LOADS -PSF
FRAME HEIGHT IN	DOOR HEIGHT IN	WIDTH (W2) IN	WIDTH (W1) IN	EXT.(+) INT.(-)
108	90	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	70
			36	70
		96	18	70
			24	70
			30	70
			36	68
114	90	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	70
			36	69
		96	18	70
			24	70
			30	68
			36	63
120	90	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	68
			36	64
		96	18	70
			24	66

DOOR JAMB MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				LOADS -PSF
FRAME HEIGHT IN	DOOR HEIGHT IN	WIDTH (W2) IN	WIDTH (W1) IN	EXT.(+) INT.(-)
108	96	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	70
			36	70
		96	18	70
			24	70
			30	70
			36	67
114	96	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	70
			36	70
		96	18	70
			24	70
			30	68
			36	65
120	96	72	18	70
			24	70
			30	70
			36	70
		84	18	70
			24	70
			30	70
			36	66
		96	18	70
			24	70



REVERSE FLOOR ANCHOR AT HINGE STRIKE/MULLION

FLORIDA APPROVAL:
FL#34547.1

YIPING WANG P.E.
FLORIDA REGISTRATION
PE #66983
C.A.N. 28677

GENSTORM STEEL STOREFRONT SYSTEM - LMI & SMI

DATE: 09/04/2023
SCALE: AS NOTED
DRAWN: James
PROJECT: MCY 14-014

DRAWING NO.
AD14-01

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REVISIONS

NO.	DATE	DESCRIPTION
R2	09.04.2023	PBC 2023

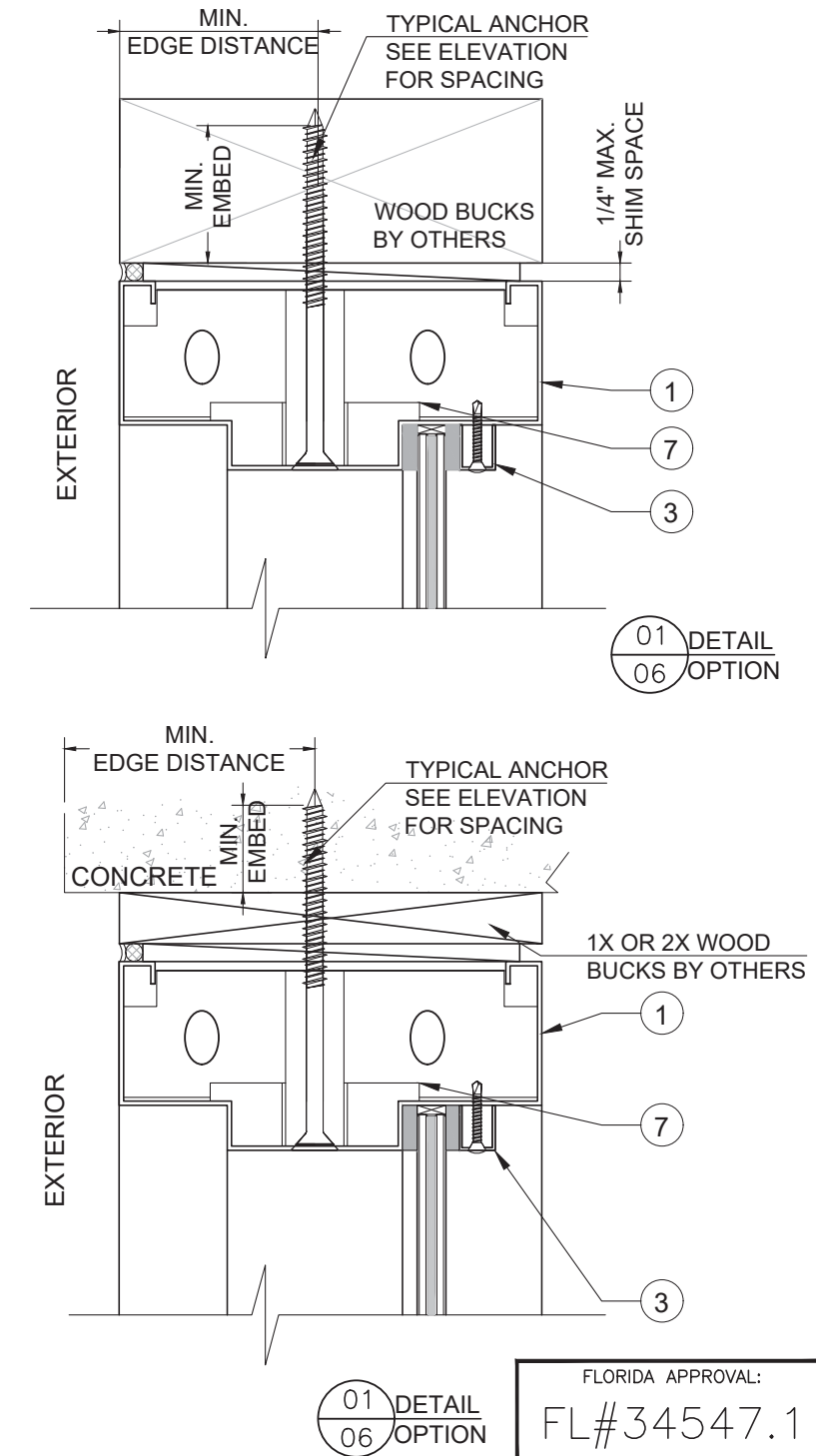
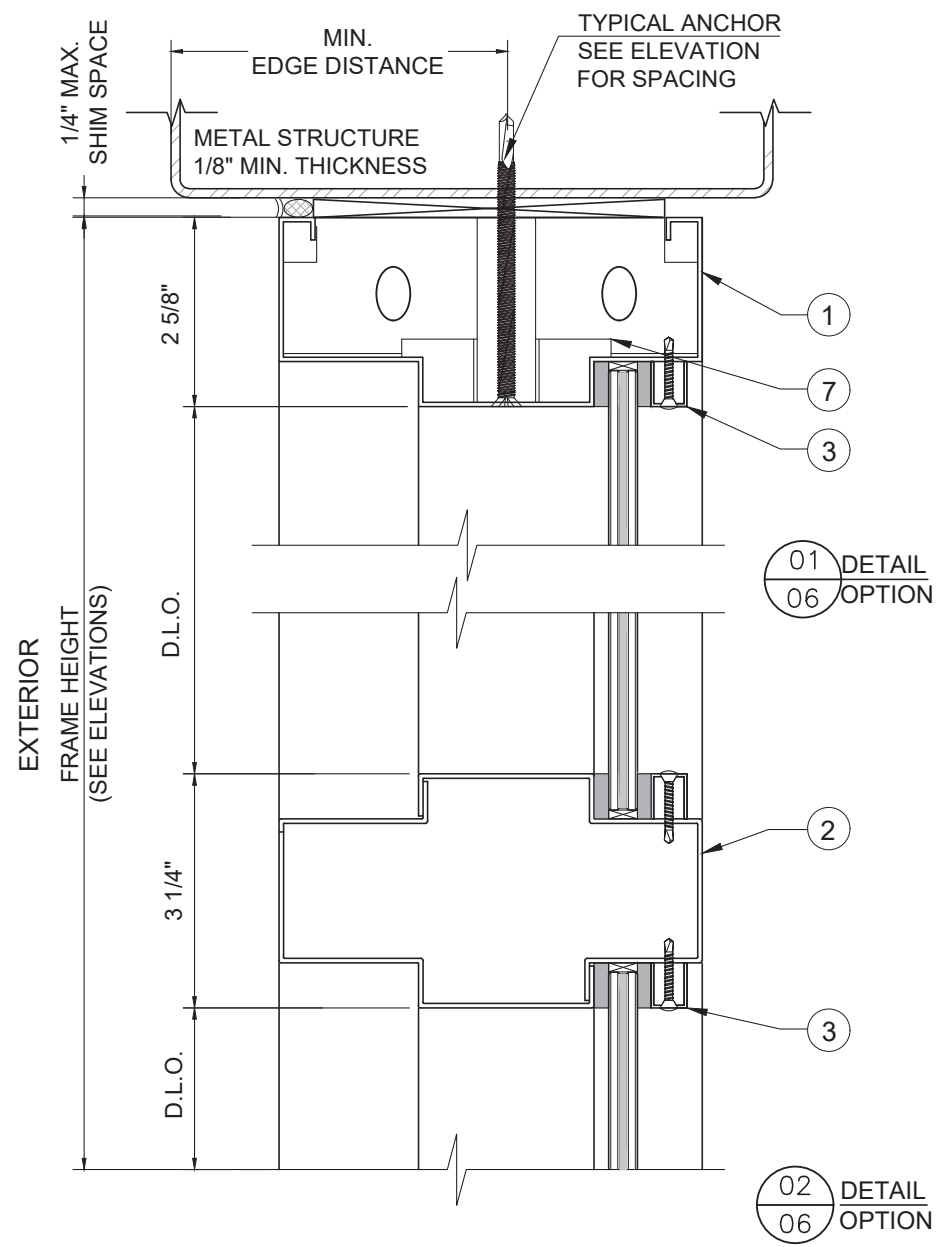
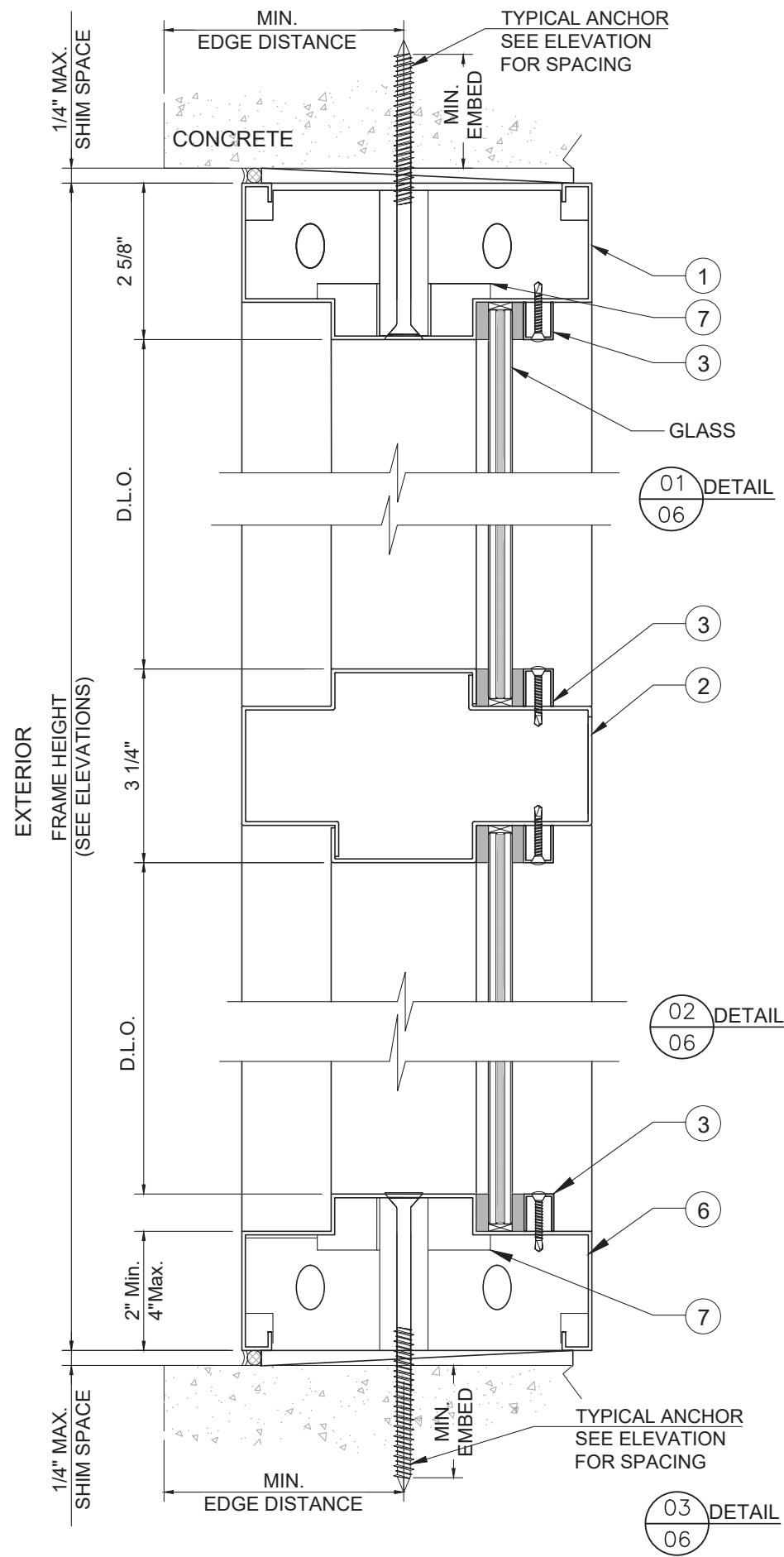
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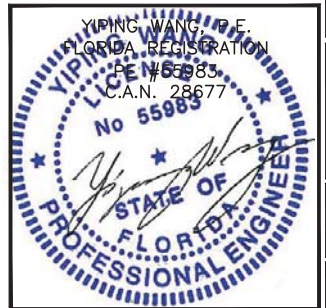
4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6
Tel: (514) 733-3562 Fax: (514) 733-1932



NOTE:
INSIDE GLAZING OPTION SHOWN.
EXTERIOR GLAZING IS AN OPTION,
FOR DETAIL SEE SHEET 3.

WOOD BUCK OR METAL STRUCTURES NOT BY GENSTEEL MUST BY ANCHORED PROPERLY TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

FLORIDA APPROVAL:
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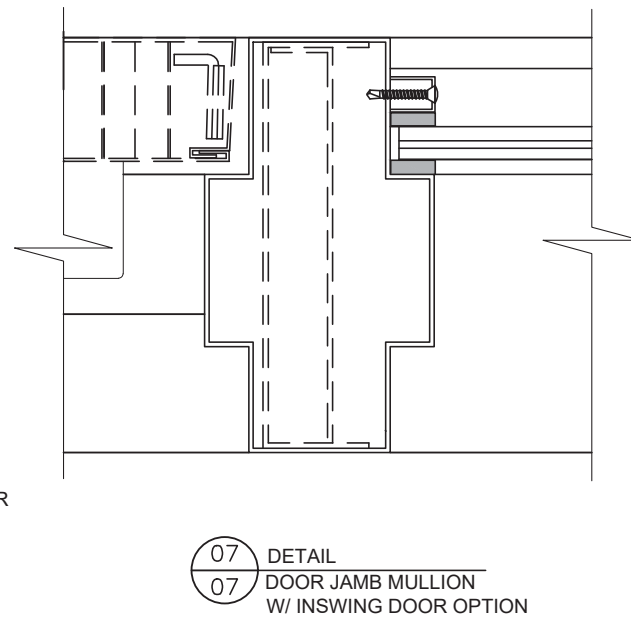
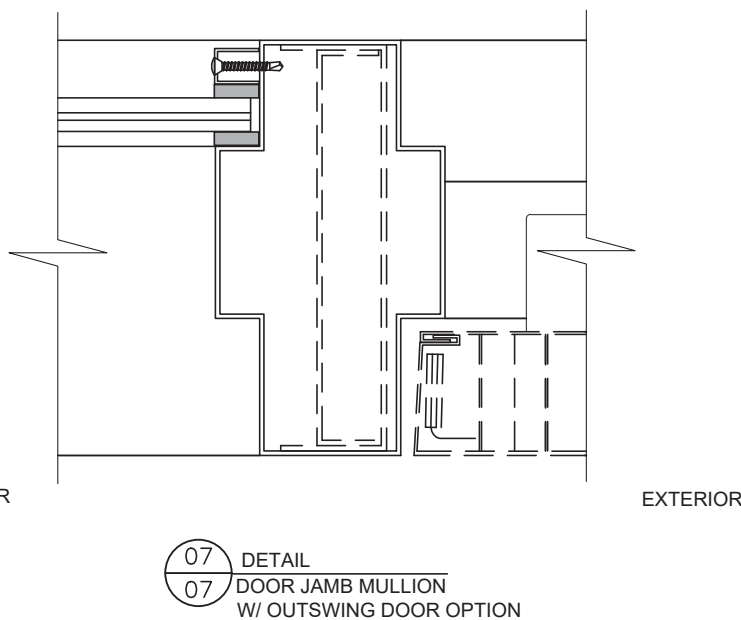
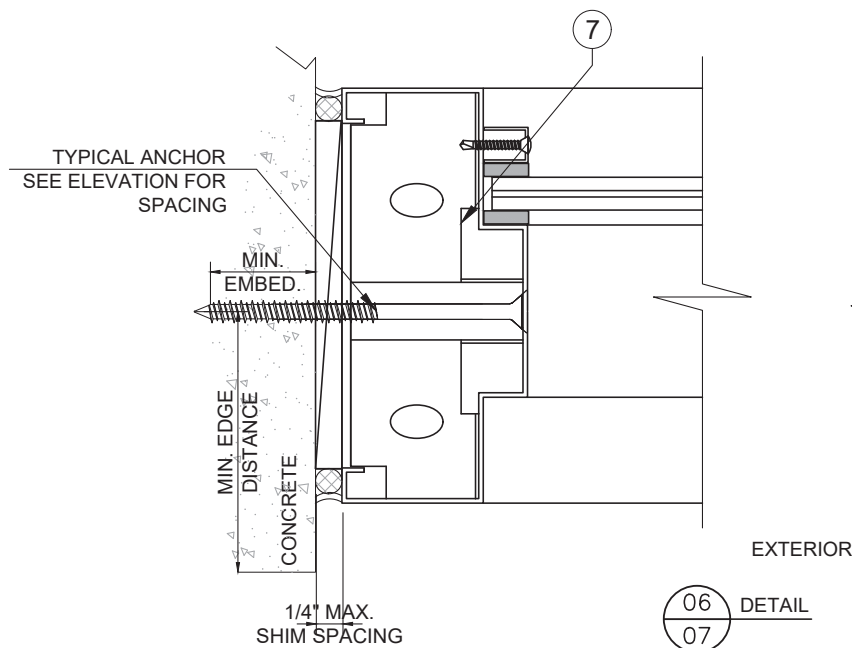
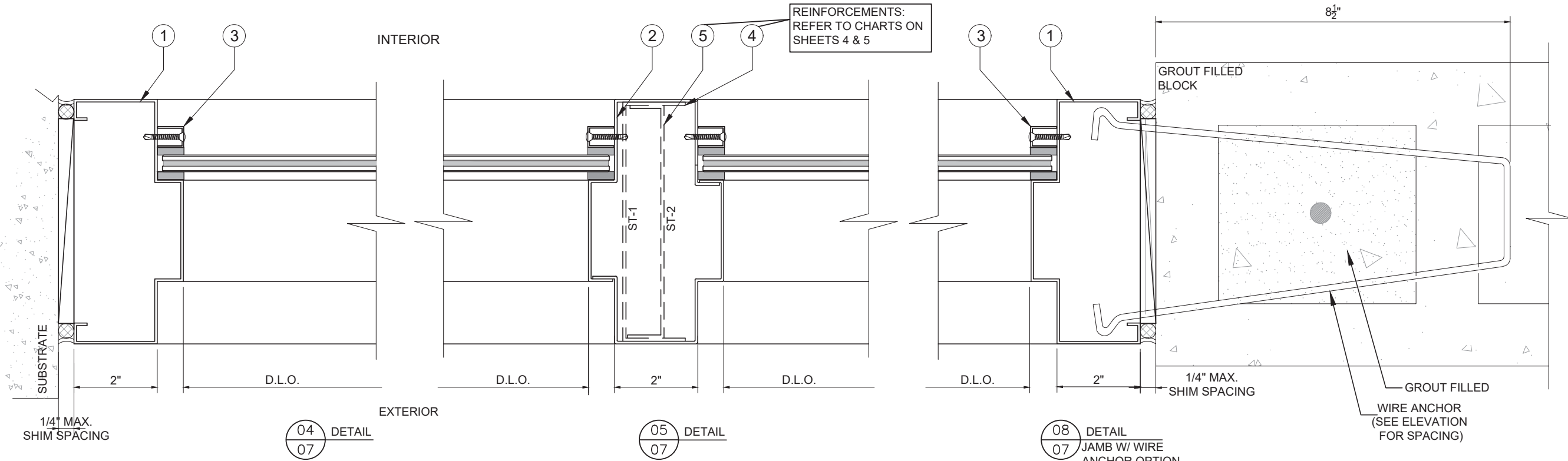
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DRAWN	James
PROJECT	MCY 14-014

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GAP		
MAX.F.H.	MIN.	MAX.
78"	1/4"	1/2"
120"	3/8"	1/2"

FLORIDA APPROVAL:
FL#34547.1

YIPING WANG P.E.
FLORIDA REGISTRATION
PE #65983
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
NO.	DATE DESCRIPTION
R2	09/04/2023 FBC 2023

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY@mcyengineering.com

GENSTORM STEEL STOREFRONT SYSTEM - LMI & SMI

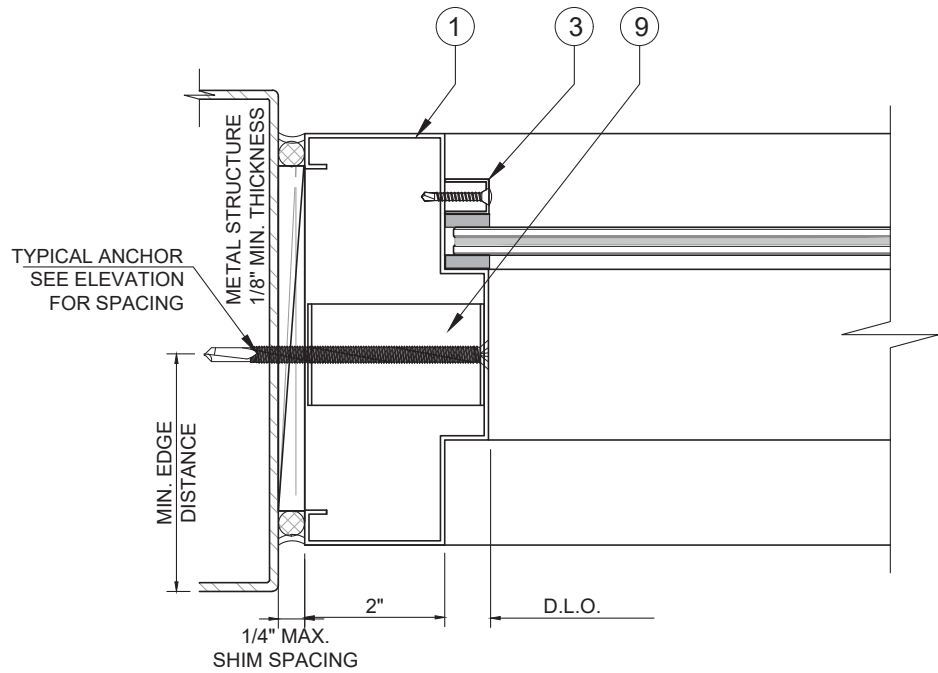
gensteeldoors
www.gensteeldoors.com

4950 Hickmore, St. Laurent, Quebec, Canada, H4T1K6
Tel: (514) 733-3562 Fax: (514) 733-1932

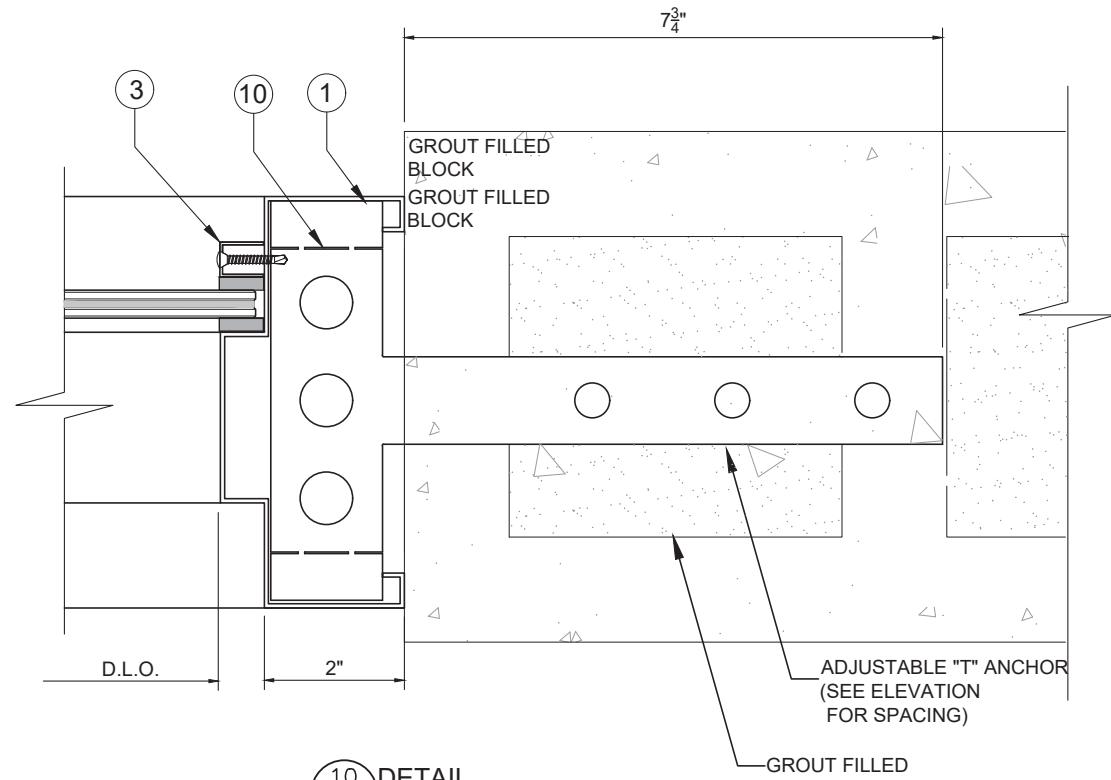
DATE	09/04/2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY 14-014

DRAWING NO.
AD14-01

7 OF 9



09
08 DETAIL
OPTION
JAMB W/ EMA
BRACKET ANCHOR



10
08 DETAIL
JAMB W/T ADJUSTABLE
" T" ANCHOR OPTION

FLORIDA APPROVAL:
FL#34547.1



September 04th, 2023

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MCY ENGINEERING, INC.

GLAZING CONSULTANTS

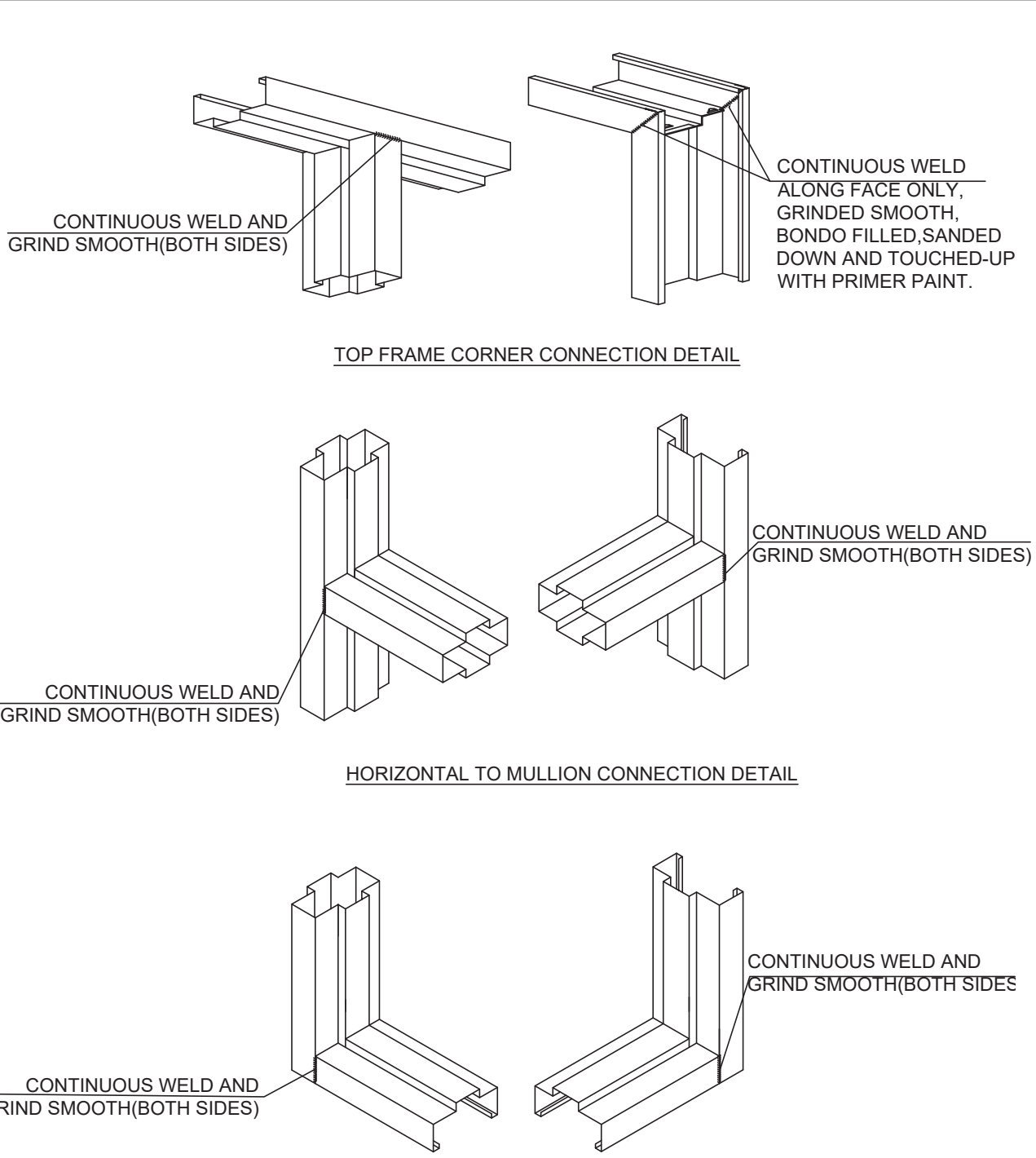
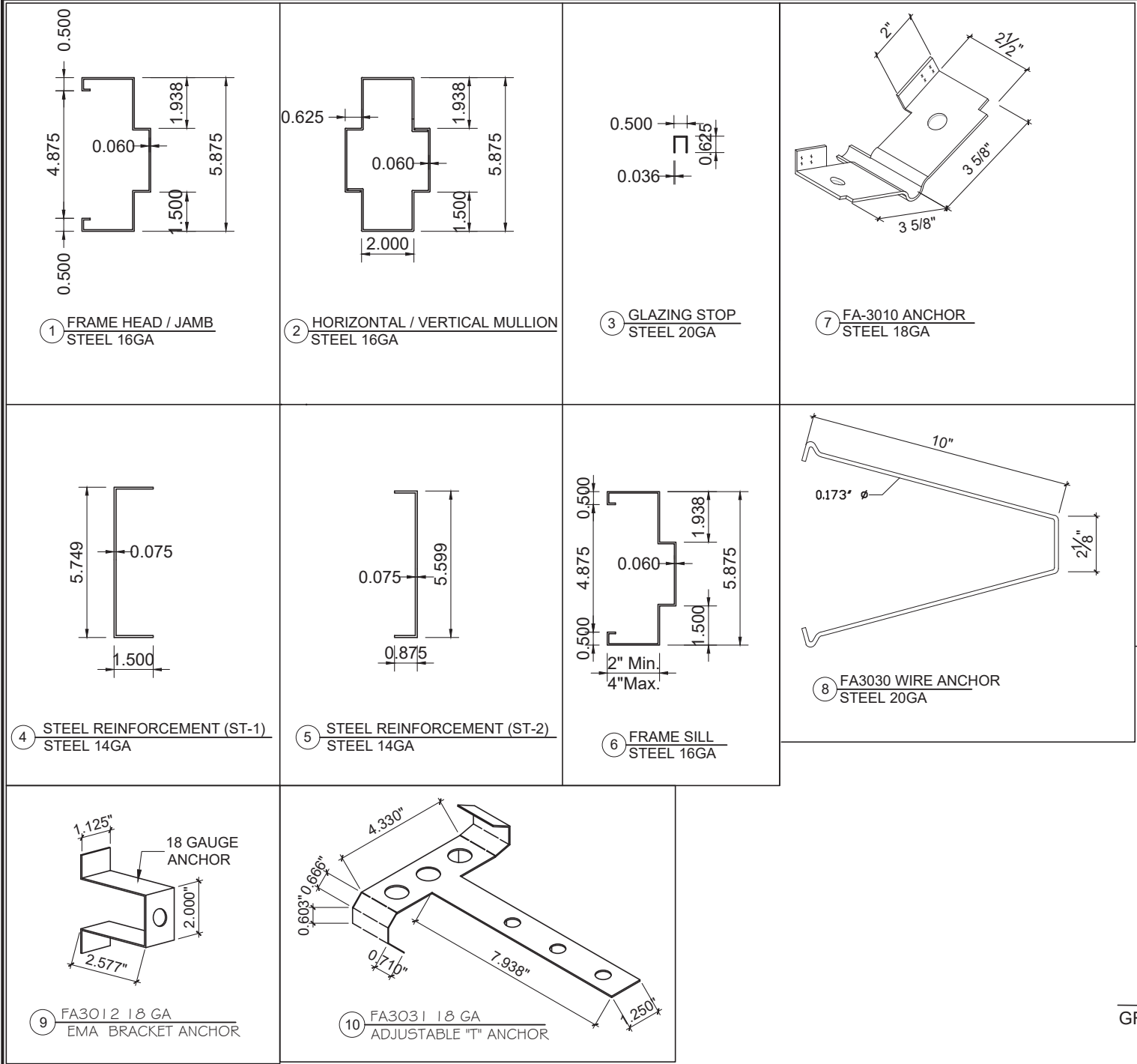
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ITEM NO.	QUANTITY	DESCRIPTION	MATERIAL	YIELD STRESS	MANF. / SUPPLIER / REMARKS
1	AS REQD.	FRAME HEAD / SILL / JAMB	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 16 GA. COLD FORMED
2	AS REQD.	HORIZONTAL/VERTICAL MULLION	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 16 GA. COLD FORMED
3	AS REQD.	GLAZING STOP	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 20 GA. COLD FORMED
4	AS REQD.	ST-1 REINFORCEMENT	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 14 GA. COLD FORMED
5	AS REQD.	ST-2 REINFORCEMENT	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 14 GA. COLD FORMED
6	AS REQD.	FRAME SILL	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 16 GA. COLD FORMED
7	AS REQD.	FA-3010 ANCHOR	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 18 GA. COLD FORMED
8	AS REQD.	FA-3030 WIRE ANCHOR	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 WIRE 0.157Ø. COLD FORMED
9	AS REQD.	3012 EMA BRACKET ANCHOR	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 18 GA. COLD FORMED
10	AS REQD.	3031 MASONRY ANCHOR BRACKET	GALVANNEAL STEEL	40.8 KSI	GENSTEEL /ASTM A653 18 GA. COLD FORMED
11	AS REQD.	SETTING BLOCK	EPDM	-	EPDM DUROMETER 70-90 SHORE A

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