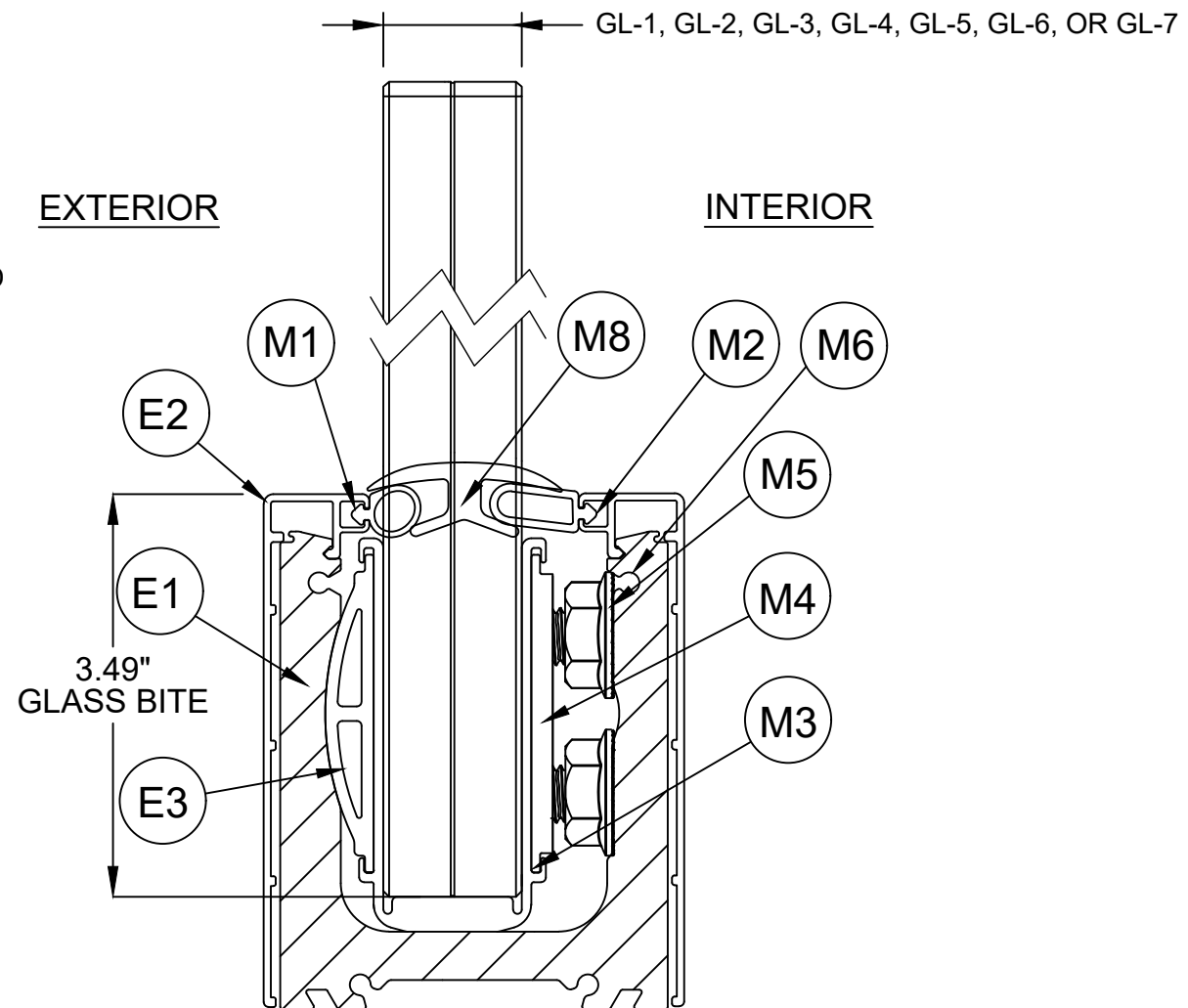


BR80 RAILING SYSTEM WITH LAMINATED/MONOLITHIC GLASS

GENERAL NOTES:

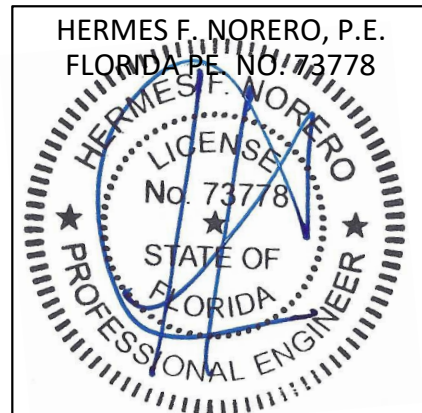
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2020 EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ.
2. PRODUCT IS NON-IMPACT RATED.
3. ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON THE DETAILS AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SPECIFIED EMBEDMENT TO BASE MATERIALS SHALL BE BEYOND FLOOR DRESSING.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE SUBSTRATE AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
6. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300



**GL-7 GLAZING
DETAIL**

INSTRUCTIONS FOR USE:

1. DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7 STANDARD.
2. SEE CHARTS ON SHEETS 3-9 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND THE MAXIMUM RAILING HEIGHT BASED ON THE CONCENTRATED AND DISTRIBUTED LIVE LOADS.
3. SEE ANCHOR SPECIFICATIONS ON SHEET 3-9.



Channel Manufacturer

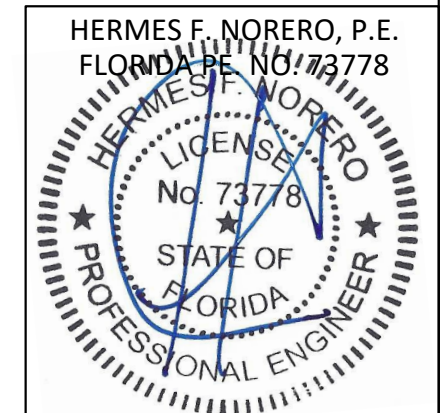
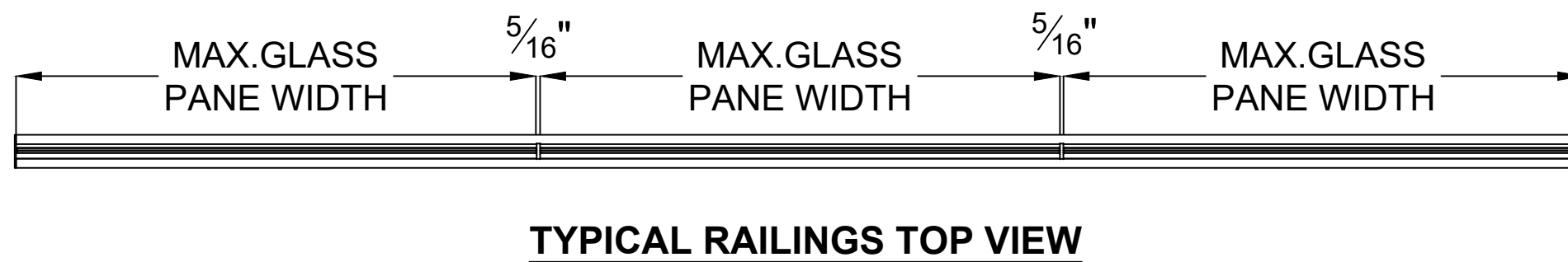
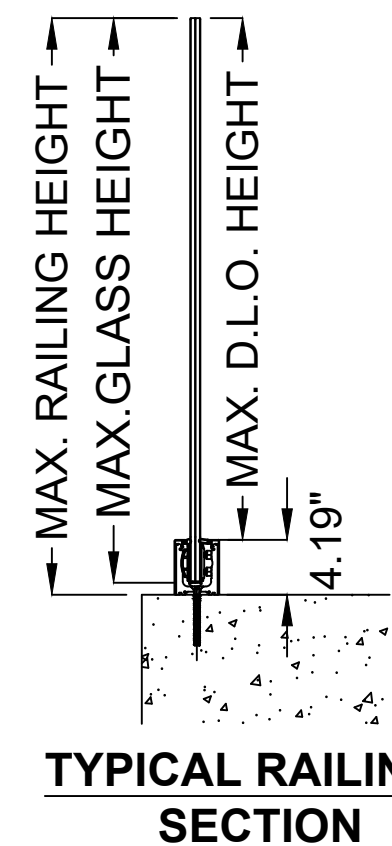
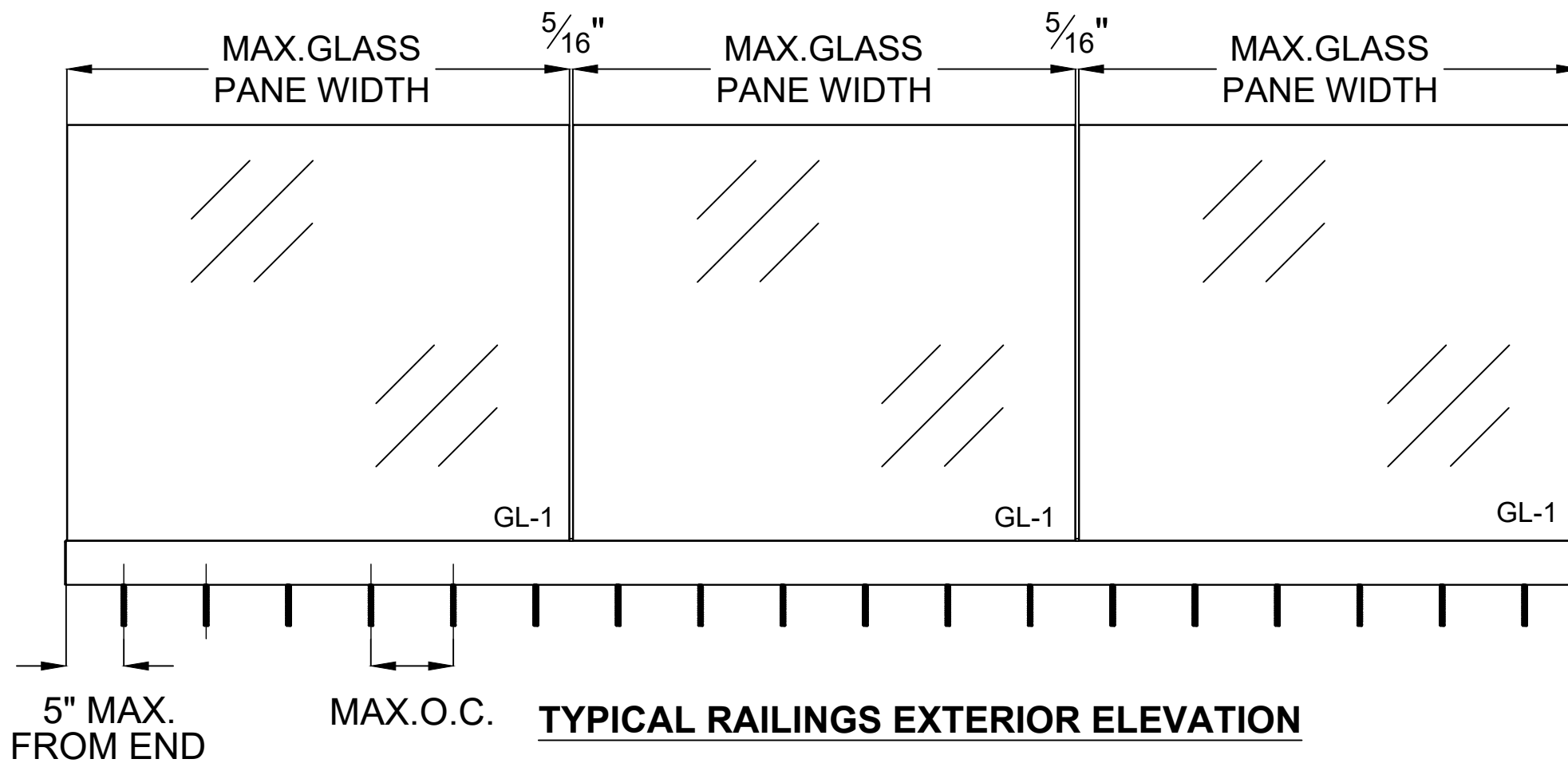
E-mail: wayne@hardwareandglass.com
 Phone: +86 13727117405
 Address: City Garden, 55 Lianjiang Road, Qingyuan City, Guangdong, China

H&G

HARDWARE AND GLASS GROUP LLC

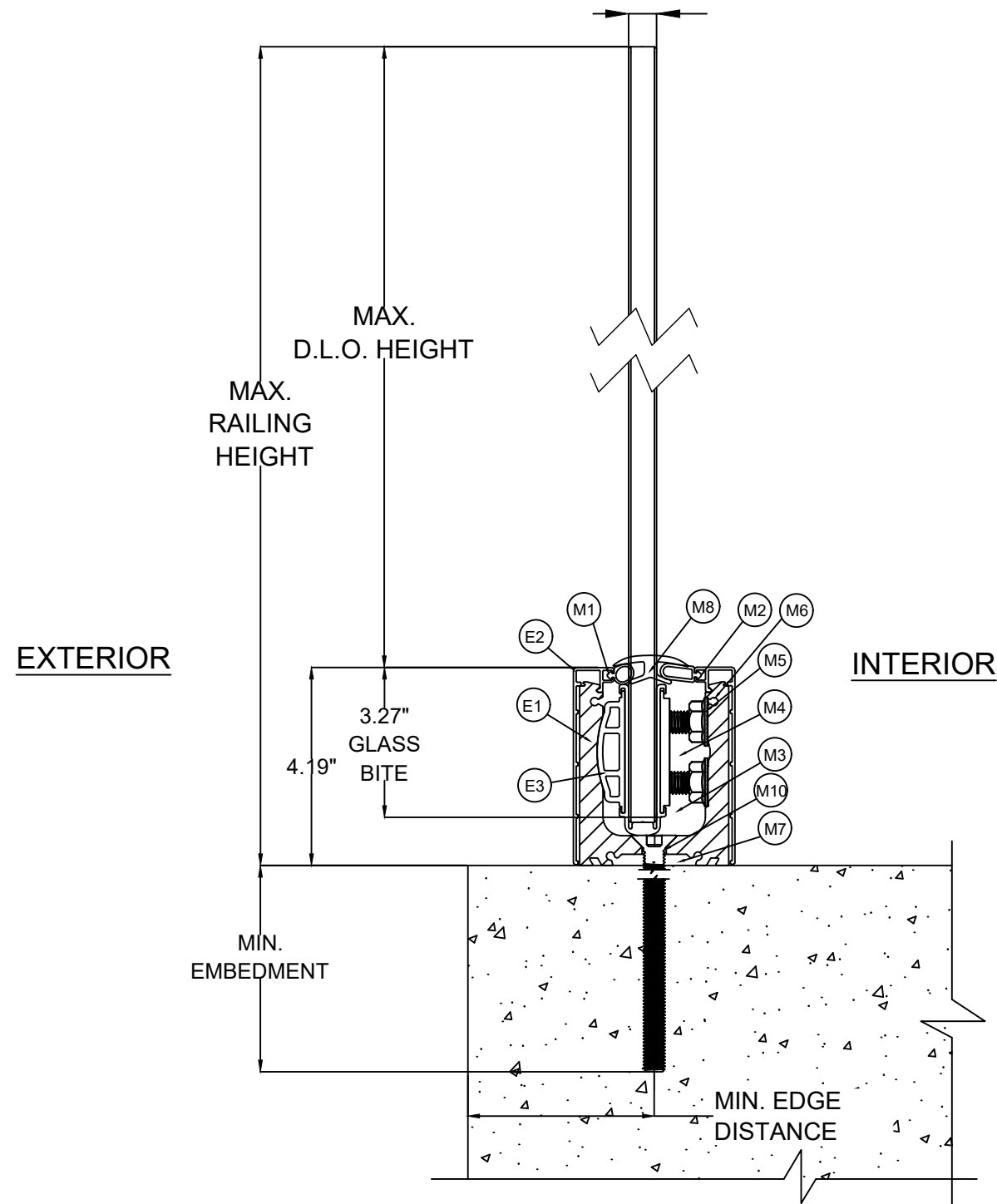
E-mail: wayne@hardwareandglass.com
 Phone: 3236475800
 Address: 8 The Green Suite #7407 Dover, DE 19901

Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-1
Projection		Date	2022/05/06	Auditing by		
Page	1 OF 10	RE Date		Approved by		



H&G HARDWARE AND GLASS GROUP LLC E-mail: wayne@hardwareandglass.com Phone: 3236475800 Address: 8 The Green Suite #7407 Dover, DE 19901	Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-2
	Projection		Date	2022/05/06	Auditing by		
	Page	2 OF 10	RE Date		Approved by		

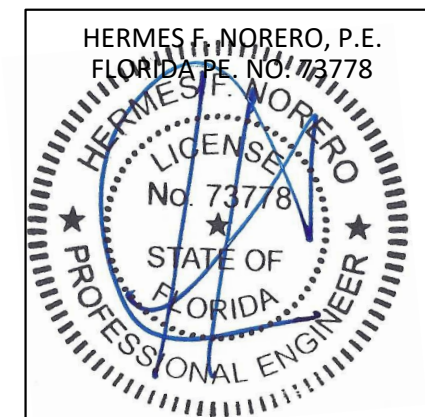
GL-1: 1/2" MONOLITHIC CLEAR TEMPERED GLASS



GLASS PANE WIDTH (IN)	EFFECTIVE GLASS THICKNESS (IN)	MOMENT AT TOP OF BASE SHOE (LB-IN/IN)	ALLOWABLE DESIGN PRESSURE (PSF)							200 LB LIVE LOAD		50 LB/FT LIVE LOAD	
			UNSUPPORTED GLASS HEIGHT (IN)							MAX. UNSUPPORTED GLASS HEIGHT (IN)		MAX. UNSUPPORTED GLASS HEIGHT (IN)	
			36	39.81	42	48	60	72	STRESS	DEFLECTION	STRESS	DEFLECTION	
12	0.47	275.1	61.1	50.0	44.9	34.4	19.4	11.1	13.3	45.7	53.0	40.2	
24	0.47	275.1	61.1	50.0	44.9	34.4	19.4	11.1	26.5	53.6	53.0	40.2	
36	0.47	275.1	61.1	50.0	44.9	34.4	22.0	11.1	39.8	58.6	53.0	40.2	
48	0.47	275.1	61.1	50.0	44.9	34.4	22.0	11.1	53.0	62.4	53.0	40.2	
60	0.47	275.1	61.1	50.0	44.9	34.4	22.0	11.1	66.3	65.5	53.0	40.2	
72	0.47	275.1	61.1	50.0	44.9	34.4	22.0	11.1	79.5	68.0	53.0	40.2	

ANCHOR SPECIFICATIONS:

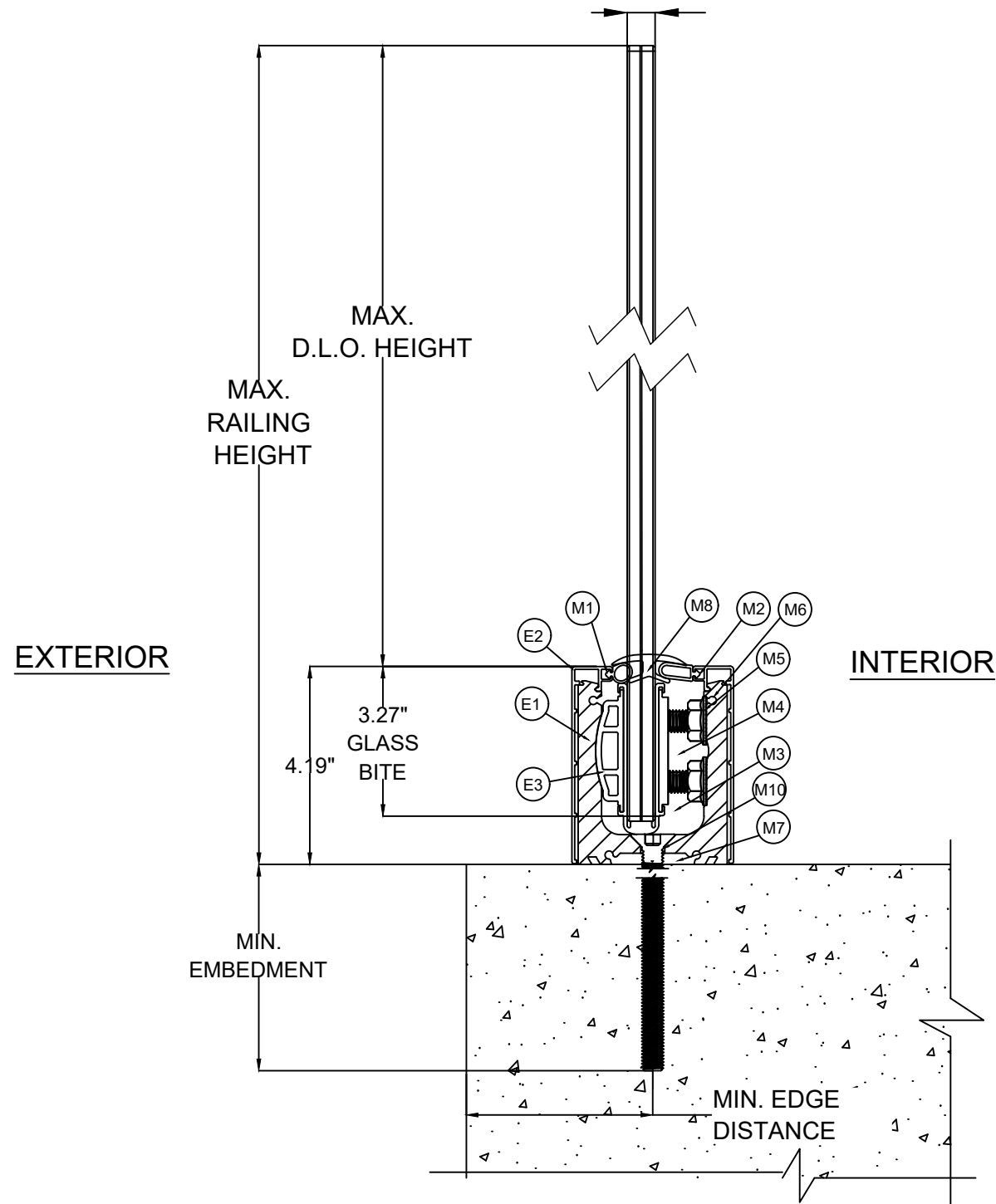
- 1/2" TITEN HD FLAT WASHER HEAD, SIMPSON
 4" MIN. EMBEDMENT
 4" MIN. EDGE DISTANCE
 6" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 2500 PSI MIN. CONCRETE F'c
- 1/2" FLAT HEAD SCREW-BOLT+, DEWALT
 2-1/2" MIN. EMBEDMENT
 3-1/2" MIN. EDGE DISTANCE
 7-7/8" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 3625 PSI MIN. CONCRETE F'c



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Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-3
Projection		Date	2022/05/06	Auditing by		
Page	3 OF 10	RE Date		Approved by		

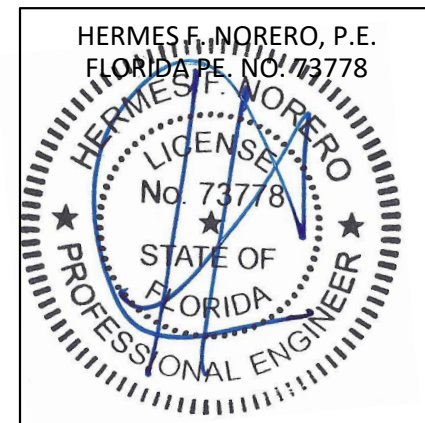
GL-2: 9/16" LAMINATED GLASS CONSISTING OF:
 1/4" CLEAR TEMPERED GLASS
 0.060" SENTRYGLAS INTERLAYER BY KURARAY
 1/4" CLEAR TEMPERED GLASS



GLASS PANE WIDTH (IN)	EFFECTIVE GLASS THICKNESS		MOMENT AT TOP OF BASE SHOE (LB-IN/IN)	ALLOWABLE DESIGN PRESSURE (PSF)						200 LB LIVE LOAD		50 LB/FT LIVE LOAD	
	DEFLECTION (IN)	STRESS (IN)		UNSUPPORTED GLASS HEIGHT (IN)						MAX. UNSUPPORTED GLASS HEIGHT (IN)		MAX. UNSUPPORTED GLASS HEIGHT (IN)	
				36	39.81	42	48	60	72	STRESS	DEFLECTION	STRESS	DEFLECTION
12	0.3636	0.4052	275.1	61.1	50.0	44.9	34.4	22.0	14.3	9.9	34.0	39.4	31.1
24	0.4333	0.4606	275.1	61.1	50.0	44.9	34.4	22.0	15.3	25.5	48.8	50.9	37.0
36	0.4629	0.4791	275.1	61.1	50.0	44.9	34.4	22.0	15.3	41.3	57.6	55.1	39.6
48	0.4765	0.4867	275.1	61.1	50.0	44.9	34.4	22.0	15.3	56.8	63.4	56.8	40.7
60	0.4836	0.4905	275.1	61.1	50.0	44.9	34.4	22.0	15.3	72.2	67.7	57.7	41.3
72	0.4877	0.4926	275.1	61.1	50.0	44.9	34.4	22.0	15.3	87.4	71.1	58.2	41.7

ANCHOR SPECIFICATIONS:

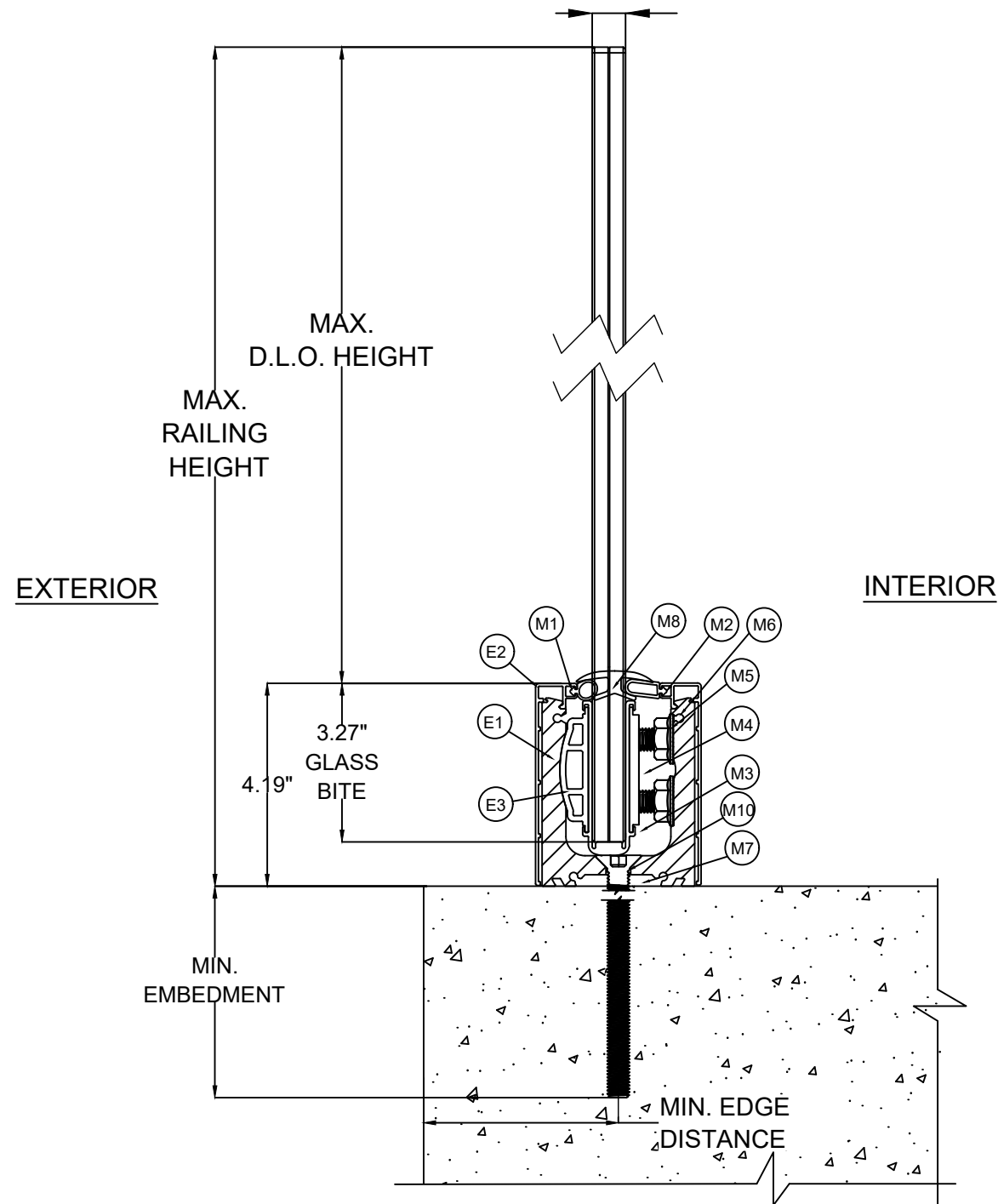
- 1/2" TITEN HD FLAT WASHER HEAD, SIMPSON
 4" MIN. EMBEDMENT
 4" MIN. EDGE DISTANCE
 6" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 2500 PSI MIN. CONCRETE F'c
- 1/2" FLAT HEAD SCREW-BOLT+, DEWALT
 2-1/2" MIN. EMBEDMENT
 3-1/2" MIN. EDGE DISTANCE
 7-7/8" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 3625 PSI MIN. CONCRETE F'c



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Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-4
Projection		Date	2022/05/06	Auditing by		
Page	4 OF 10	RE Date		Approved by		

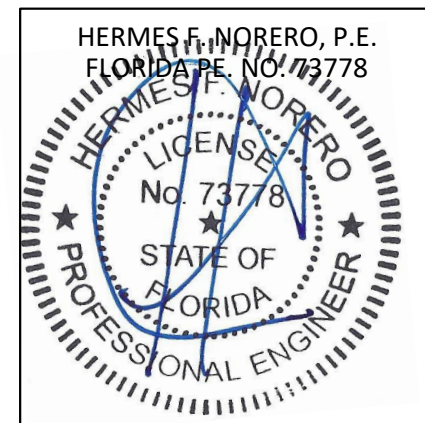
GL-3: 11/16" LAMINATED GLASS CONSISTING OF:
 3/8" CLEAR TEMPERED GLASS
 0.060" SENTRYGLAS INTERLAYER BY KURARAY
 1/4" CLEAR TEMPERED GLASS



GLASS PANE WIDTH (IN)	EFFECTIVE GLASS THICKNESS		MOMENT AT TOP OF BASE SHOE (LB-IN/IN)	ALLOWABLE DESIGN PRESSURE (PSF)						200 LB LIVE LOAD		50 LB/FT LIVE LOAD	
	DEFLECTION (IN)	STRESS (IN)		UNSUPPORTED GLASS HEIGHT (IN)						MAX. UNSUPPORTED GLASS HEIGHT (IN)		MAX. UNSUPPORTED GLASS HEIGHT (IN)	
				36	39.81	42	48	60	72	STRESS	DEFLECTION	STRESS	DEFLECTION
12	0.4578	0.5115	275.1	61.1	50.0	44.9	34.4	22.0	15.3	15.7	44.3	62.8	39.1
24	0.5457	0.5851	275.1	61.1	50.0	44.9	34.4	22.0	15.3	41.1	63.7	82.2	46.6
36	0.5883	0.6133	275.1	61.1	50.0	44.9	34.4	22.0	15.3	67.7	76.2	90.3	50.3
48	0.6092	0.6255	275.1	61.1	50.0	44.9	34.4	22.0	15.3	93.9	84.6	93.9	52.1
60	0.6205	0.6317	275.1	61.1	50.0	44.9	34.4	22.0	15.3	119.7	90.8	95.8	53.0
72	0.6271	0.6353	275.1	61.1	50.0	44.9	34.4	22.0	15.3	145.3	95.6	96.9	53.6

ANCHOR SPECIFICATIONS:

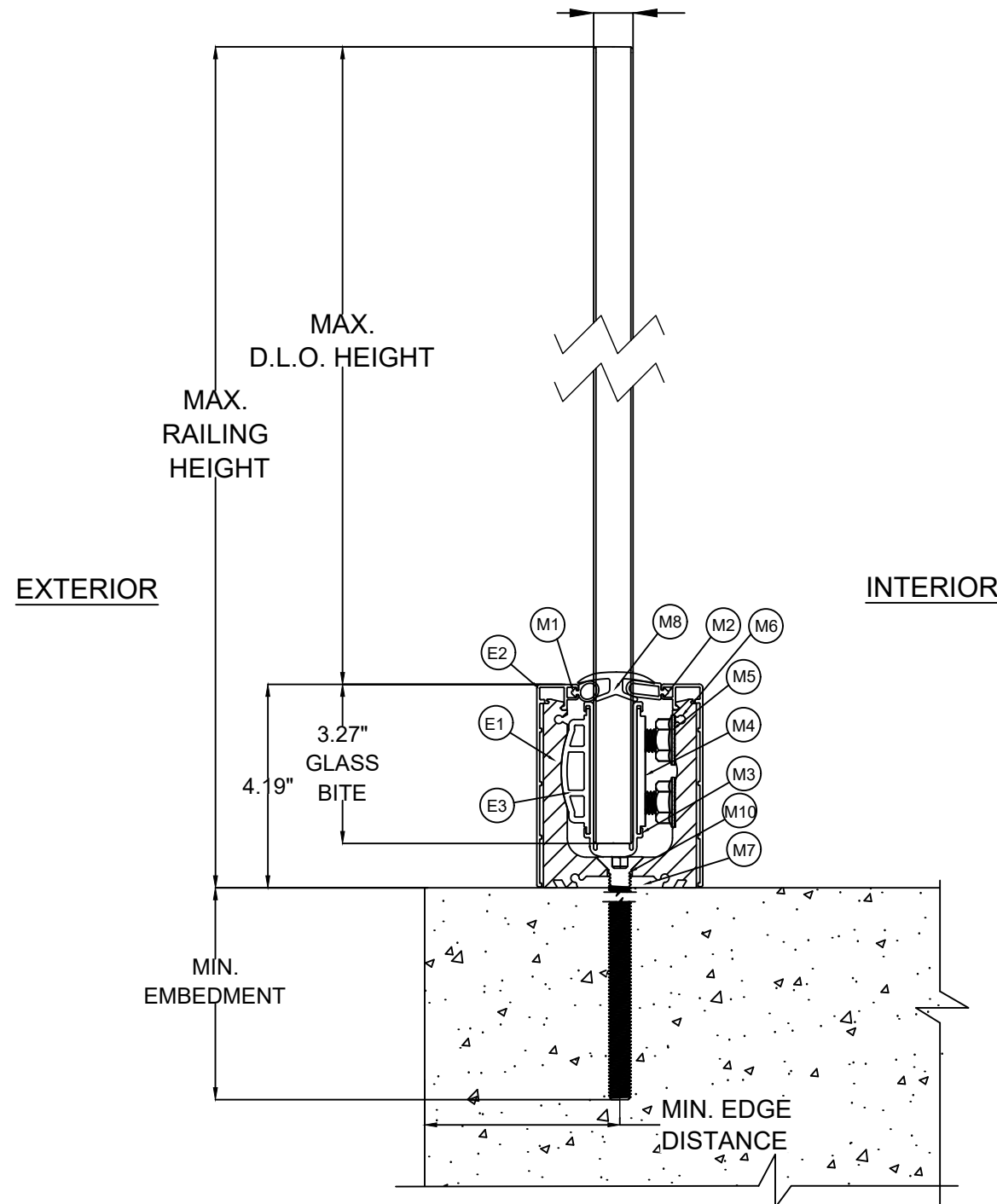
- 1/2" TITEN HD FLAT WASHER HEAD, SIMPSON
 4" MIN. EMBEDMENT
 4" MIN. EDGE DISTANCE
 6" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 2500 PSI MIN. CONCRETE F'c
- 1/2" FLAT HEAD SCREW-BOLT+, DEWALT
 2-1/2" MIN. EMBEDMENT
 3-1/2" MIN. EDGE DISTANCE
 7-7/8" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 3625 PSI MIN. CONCRETE F'c



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Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-5
Projection		Date	2022/05/06	Auditing by		
Page	5 OF 10	RE Date		Approved by		

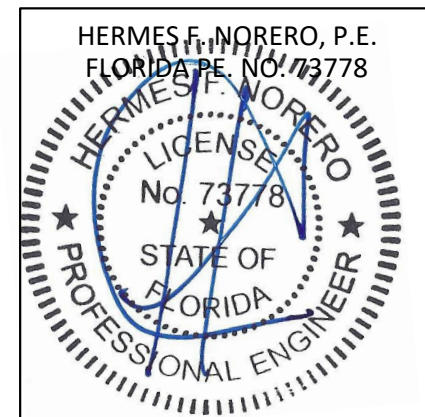
GL-4: 3/4" MONOLITHIC CLEAR TEMPERED GLASS



GLASS PANE WIDTH (IN)	EFFECTIVE GLASS THICKNESS (IN)	MOMENT AT TOP OF BASE SHOE (LB-IN/IN)	ALLOWABLE DESIGN PRESSURE (PSF)						200 LB LIVE LOAD		50 LB/FT LIVE LOAD	
			UNSUPPORTED GLASS HEIGHT (IN)						MAX. UNSUPPORTED GLASS HEIGHT (IN)		MAX. UNSUPPORTED GLASS HEIGHT (IN)	
			36	39.81	42	48	60	72	STRESS	DEFLECTION	STRESS	DEFLECTION
12	0.72	275.1	61.1	50.0	44.9	34.4	22.0	15.3	31.0	74.0	124.1	61.4
24	0.72	275.1	61.1	50.0	44.9	34.4	22.0	15.3	62.0	87.6	124.1	61.4
36	0.72	275.1	61.1	50.0	44.9	34.4	22.0	15.3	93.1	96.2	124.1	61.4
48	0.72	275.1	61.1	50.0	44.9	34.4	22.0	15.3	124.1	102.7	124.1	61.4
60	0.72	275.1	61.1	50.0	44.9	34.4	22.0	15.3	155.1	107.9	124.1	61.4
72	0.72	275.1	61.1	50.0	44.9	34.4	22.0	15.3	186.1	112.3	124.1	61.4

ANCHOR SPECIFICATIONS:

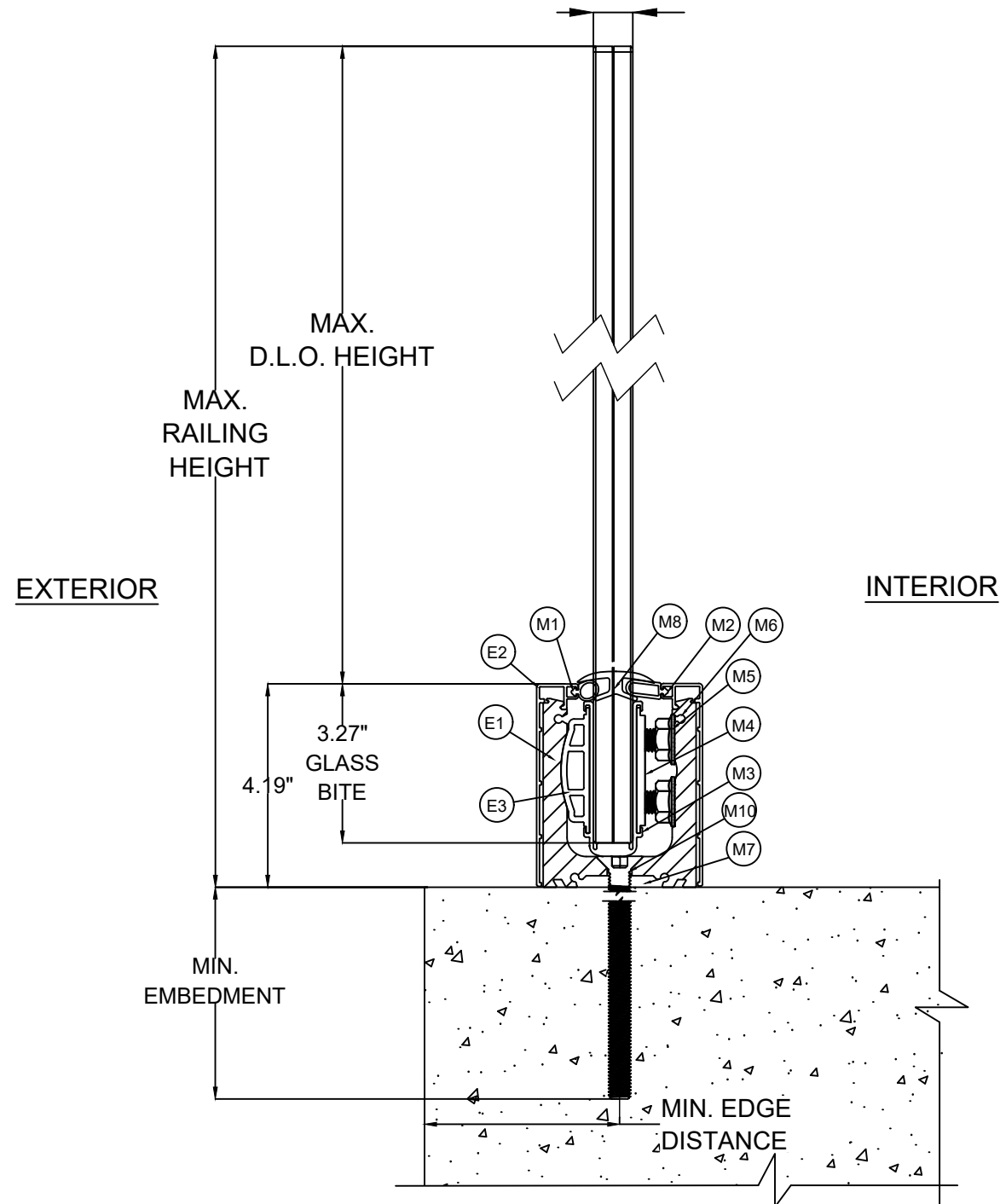
- 1/2" TITEN HD FLAT WASHER HEAD, SIMPSON
 4" MIN. EMBEDMENT
 4" MIN. EDGE DISTANCE
 6" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 2500 PSI MIN. CONCRETE F'c
- 1/2" FLAT HEAD SCREW-BOLT+, DEWALT
 2-1/2" MIN. EMBEDMENT
 3-1/2" MIN. EDGE DISTANCE
 7-7/8" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 3625 PSI MIN. CONCRETE F'c



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Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-6
Projection		Date	2022/05/06	Auditing by		
Page	6 OF 10	RE Date		Approved by		

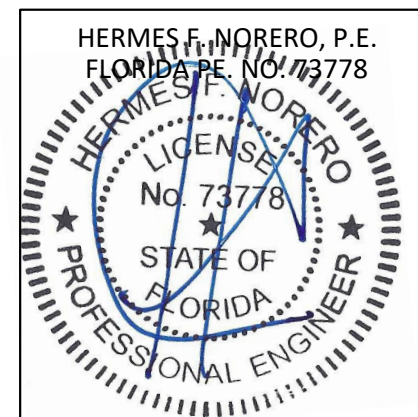
GL-5: 13/16" LAMINATED GLASS CONSISTING OF:
 3/8" CLEAR TEMPERED GLASS
 0.060" SENTRYGLAS INTERLAYER BY KURARAY
 3/8" CLEAR TEMPERED GLASS



GLASS PANE WIDTH (IN)	EFFECTIVE GLASS THICKNESS		MOMENT AT TOP OF BASE SHOE (LB-IN/IN)	ALLOWABLE DESIGN PRESSURE (PSF)						200 LB LIVE LOAD		50 LB/FT LIVE LOAD	
	DEFLECTION (IN)	STRESS (IN)		UNSUPPORTED GLASS HEIGHT (IN)						MAX. UNSUPPORTED GLASS HEIGHT (IN)		MAX. UNSUPPORTED GLASS HEIGHT (IN)	
				36	39.81	42	48	60	72	STRESS	DEFLECTION	STRESS	DEFLECTION
12	0.5240	0.5907	275.1	61.1	50.0	44.9	34.4	22.0	15.3	20.9	51.7	83.7	44.8
24	0.6269	0.6880	275.1	61.1	50.0	44.9	34.4	22.0	15.3	56.8	74.8	113.6	53.6
36	0.6913	0.7365	275.1	61.1	50.0	44.9	34.4	22.0	15.3	97.6	91.9	130.2	59.1
48	0.7281	0.7603	275.1	61.1	50.0	44.9	34.4	22.0	15.3	138.7	104.2	138.7	62.2
60	0.7498	0.7731	275.1	61.1	50.0	44.9	34.4	22.0	15.3	179.3	113.3	143.4	64.1
72	0.7633	0.7806	275.1	61.1	50.0	44.9	34.4	22.0	15.3	219.4	120.4	146.3	65.2

ANCHOR SPECIFICATIONS:

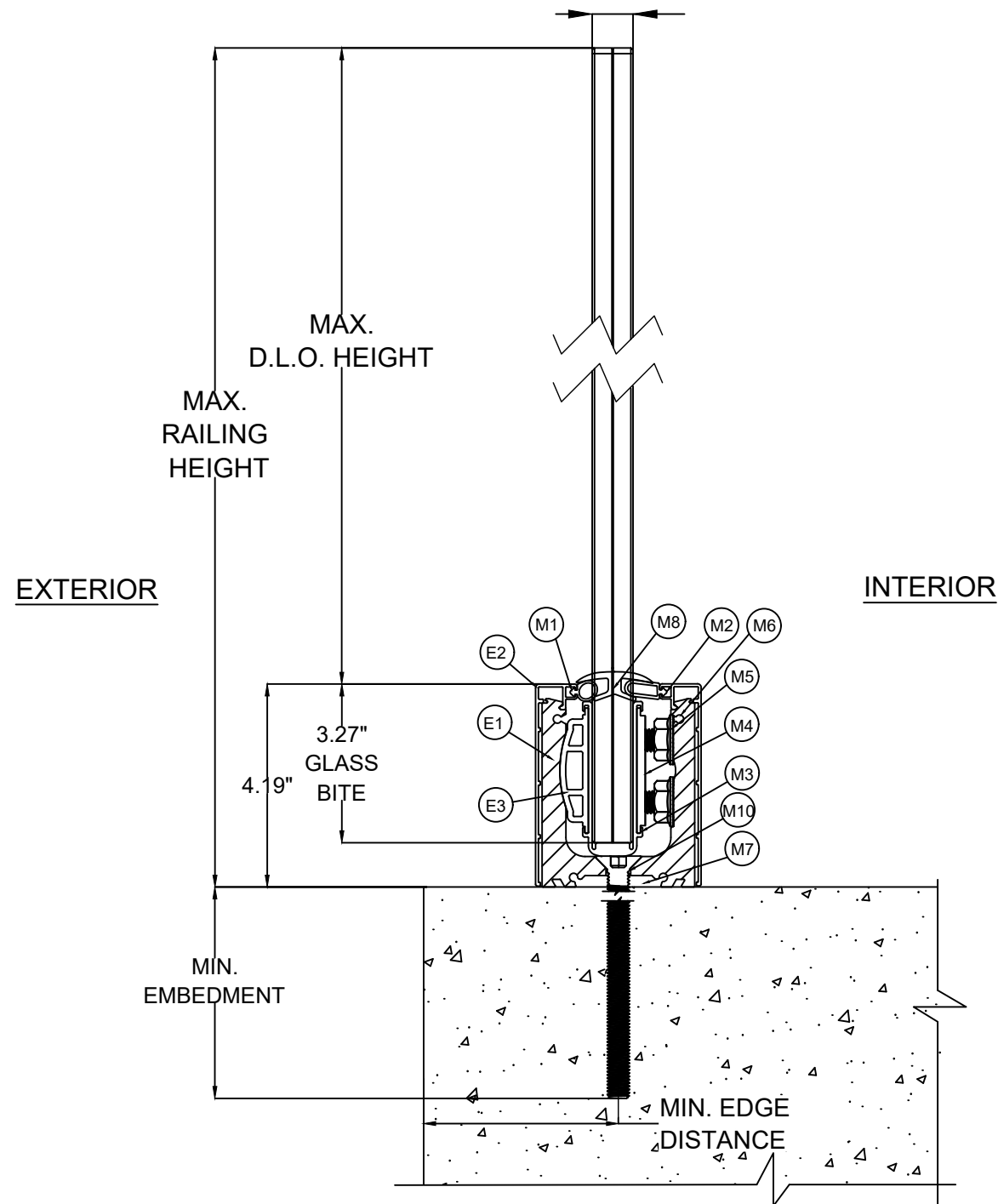
- 1/2" TITEN HD FLAT WASHER HEAD, SIMPSON
 4" MIN. EMBEDMENT
 4" MIN. EDGE DISTANCE
 6" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 2500 PSI MIN. CONCRETE F'c
- 1/2" FLAT HEAD SCREW-BOLT+, DEWALT
 2-1/2" MIN. EMBEDMENT
 3-1/2" MIN. EDGE DISTANCE
 7-7/8" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 3625 PSI MIN. CONCRETE F'c



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Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-7
Projection		Date	2022/05/06	Auditing by		
Page	7 OF 10	RE Date		Approved by		

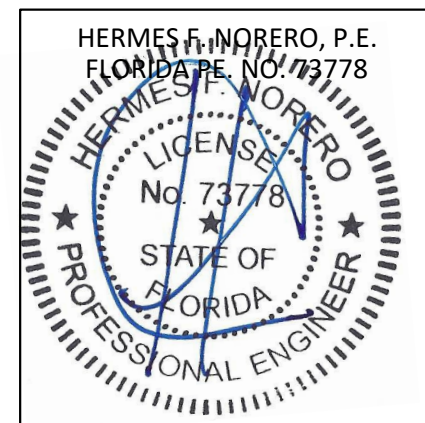
GL-6: 27/32" LAMINATED GLASS CONSISTING OF:
 3/8" CLEAR TEMPERED GLASS
 0.090" SENTRYGLAS INTERLAYER BY KURARAY
 3/8" CLEAR TEMPERED GLASS



GLASS PANE WIDTH (IN)	EFFECTIVE GLASS THICKNESS		MOMENT AT TOP OF BASE SHOE (LB-IN/IN)	ALLOWABLE DESIGN PRESSURE (PSF)						200 LB LIVE LOAD		50 LB/FT LIVE LOAD	
	DEFLECTION (IN)	STRESS (IN)		UNSUPPORTED GLASS HEIGHT (IN)						MAX. UNSUPPORTED GLASS HEIGHT (IN)		MAX. UNSUPPORTED GLASS HEIGHT (IN)	
				36	39.81	42	48	60	72	STRESS	DEFLECTION	STRESS	DEFLECTION
12	0.5385	0.6023	275.1	61.1	50.0	44.9	34.4	22.0	15.3	21.8	53.4	87.1	46.0
24	0.6399	0.6901	275.1	61.1	50.0	44.9	34.4	22.0	15.3	57.2	76.6	114.3	54.7
36	0.6938	0.7272	275.1	61.1	50.0	44.9	34.4	22.0	15.3	95.2	92.3	126.9	59.3
48	0.7216	0.7440	275.1	61.1	50.0	44.9	34.4	22.0	15.3	132.9	103.1	132.9	61.7
60	0.7370	0.7527	275.1	61.1	50.0	44.9	34.4	22.0	15.3	170.0	111.1	136.0	63.0
72	0.7462	0.7577	275.1	61.1	50.0	44.9	34.4	22.0	15.3	206.7	117.3	137.8	63.8

ANCHOR SPECIFICATIONS:

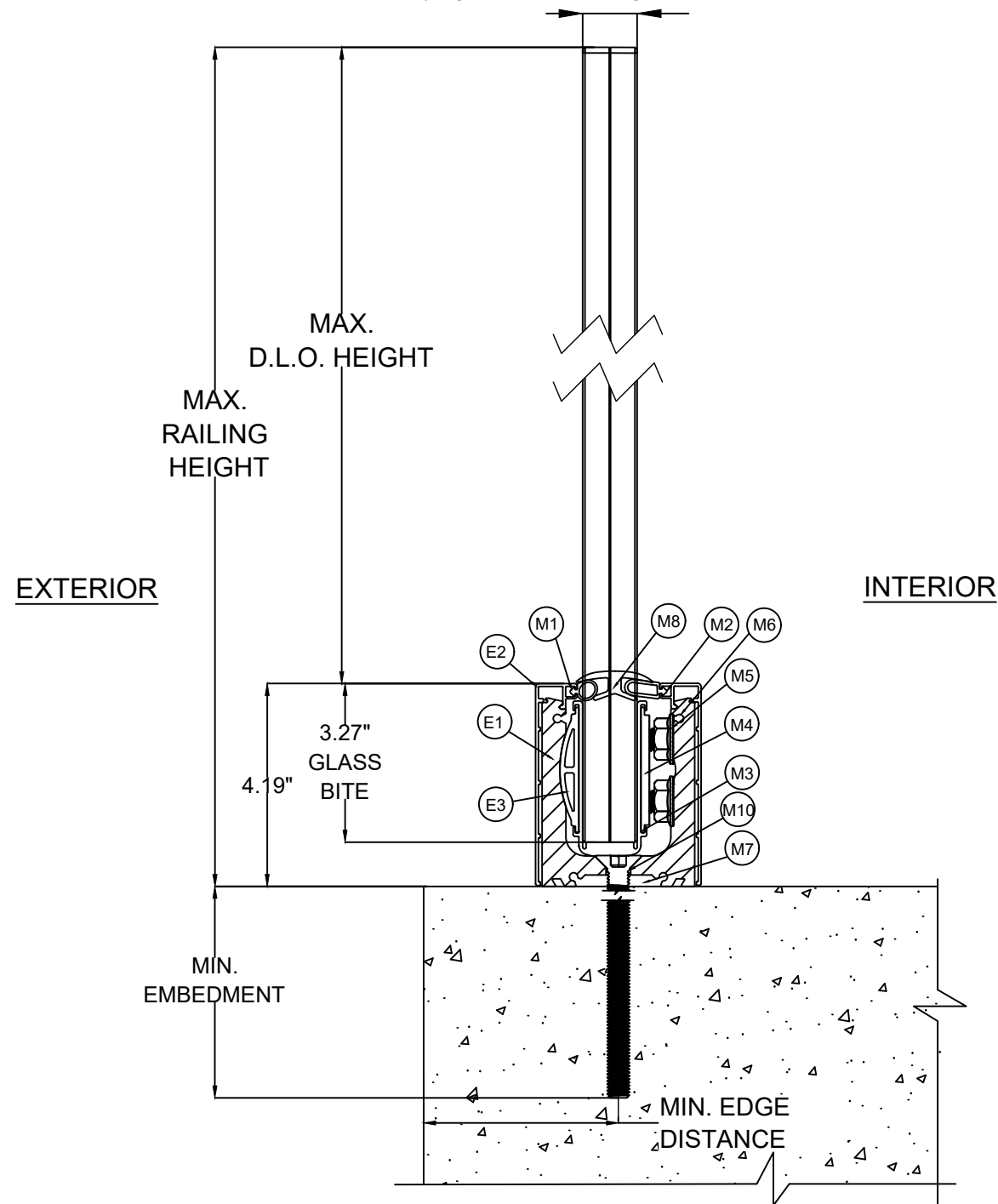
- 1/2" TITEN HD FLAT WASHER HEAD, SIMPSON
 4" MIN. EMBEDMENT
 4" MIN. EDGE DISTANCE
 6" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 2500 PSI MIN. CONCRETE F'c
- 1/2" FLAT HEAD SCREW-BOLT+, DEWALT
 2-1/2" MIN. EMBEDMENT
 3-1/2" MIN. EDGE DISTANCE
 7-7/8" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 3625 PSI MIN. CONCRETE F'c



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Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-8
Projection		Date	2022/05/06	Auditing by		
Page	8 OF 10	RE Date		Approved by		

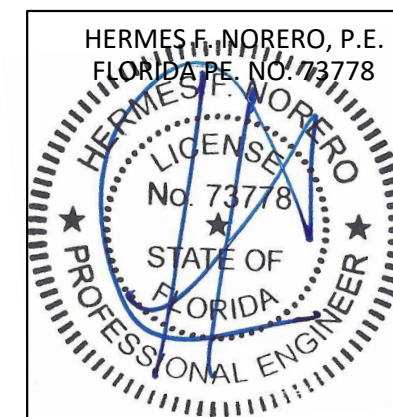
GL-7: 1-1/8" LAMINATED GLASS CONSISTING OF:
 1/2" CLEAR TEMPERED GLASS
 0.060" SENTRYGLAS INTERLAYER BY KURARAY
 1/2" CLEAR TEMPERED GLASS



GLASS PANE WIDTH (IN)	EFFECTIVE GLASS THICKNESS		MOMENT AT TOP OF BASE SHOE (LB-IN/IN)	ALLOWABLE DESIGN PRESSURE (PSF)						200 LB LIVE LOAD		50 LB/FT LIVE LOAD	
	DEFLECTION (IN)	STRESS (IN)		UNSUPPORTED GLASS HEIGHT (IN)						MAX. UNSUPPORTED GLASS HEIGHT (IN)		MAX. UNSUPPORTED GLASS HEIGHT (IN)	
				36	39.81	42	48	60	72	STRESS	DEFLECTION	STRESS	DEFLECTION
12	0.6837	0.7658	275.1	61.1	50.0	44.9	34.4	22.0	15.3	35.2	69.9	140.7	58.4
24	0.8056	0.8758	275.1	61.1	50.0	44.9	34.4	22.0	15.3	92.1	99.8	184.1	68.8
36	0.8795	0.9295	275.1	61.1	50.0	44.9	34.4	22.0	15.3	155.5	121.4	207.4	75.2
48	0.9206	0.9556	275.1	61.1	50.0	44.9	34.4	22.0	15.3	219.1	136.8	219.1	78.7
60	0.9444	0.9695	275.1	61.1	50.0	44.9	34.4	22.0	15.3	282.0	148.2	225.6	80.7
72	0.9590	0.9776	275.1	61.1	50.0	44.9	34.4	22.0	15.3	344.1	157.2	229.4	82.0

ANCHOR SPECIFICATIONS:

- 1/2" TITEN HD FLAT WASHER HEAD, SIMPSON
 4" MIN. EMBEDMENT
 4" MIN. EDGE DISTANCE
 6" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 2500 PSI MIN. CONCRETE F'c
- 1/2" FLAT HEAD SCREW-BOLT+, DEWALT
 2-1/2" MIN. EMBEDMENT
 3-1/2" MIN. EDGE DISTANCE
 7-7/8" MAX. SPACING
 6-3/4" MIN. SLAB THICKNESS
 3625 PSI MIN. CONCRETE F'c



H&G

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Drawing Spec.

A4

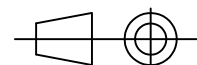
WEIGHT(KG)

Drawn by

Michael

Drawn NO.

Projection



Date

2022/05/06

Auditing by

BR80-T3680-9

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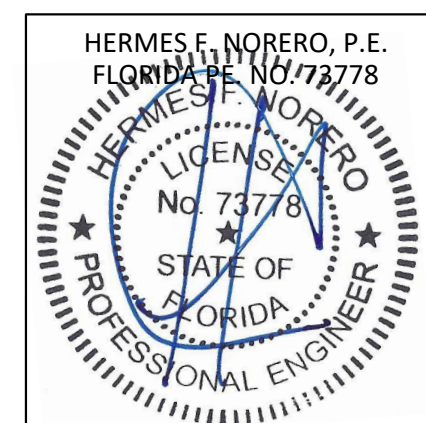
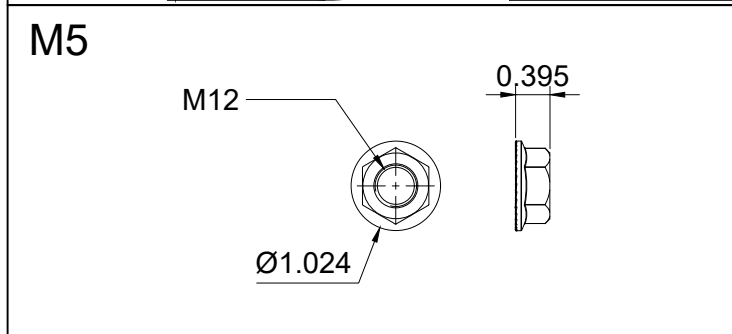
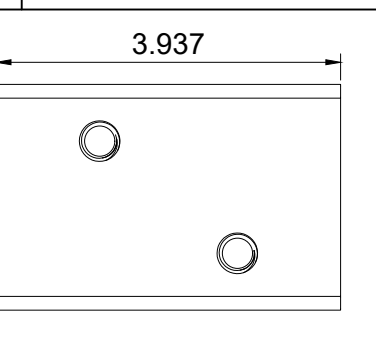
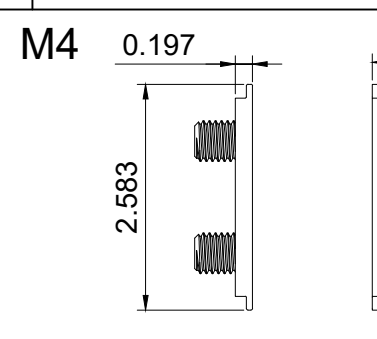
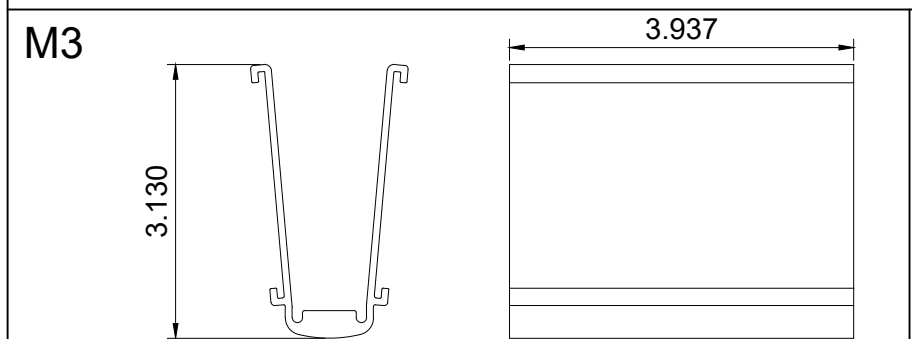
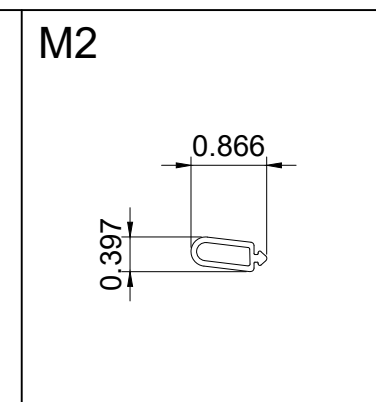
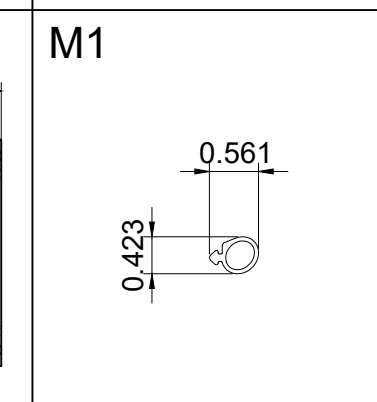
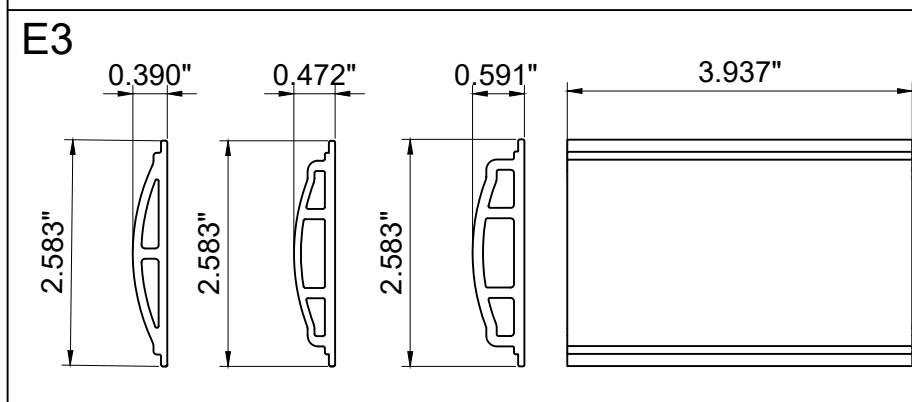
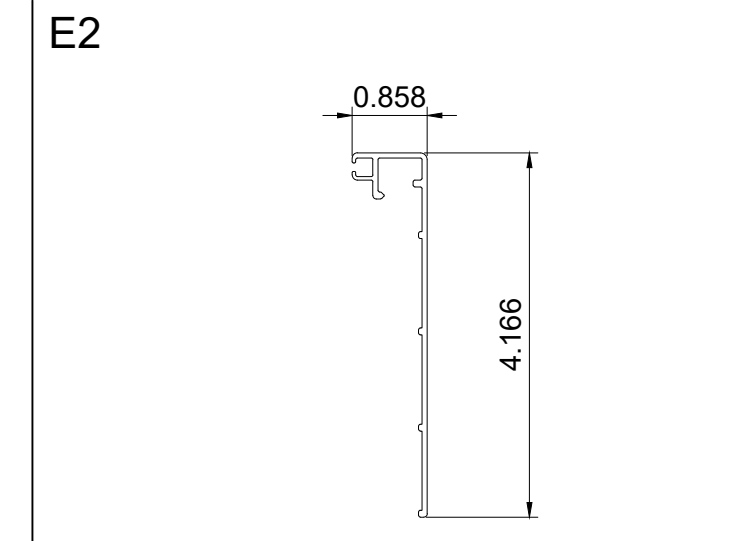
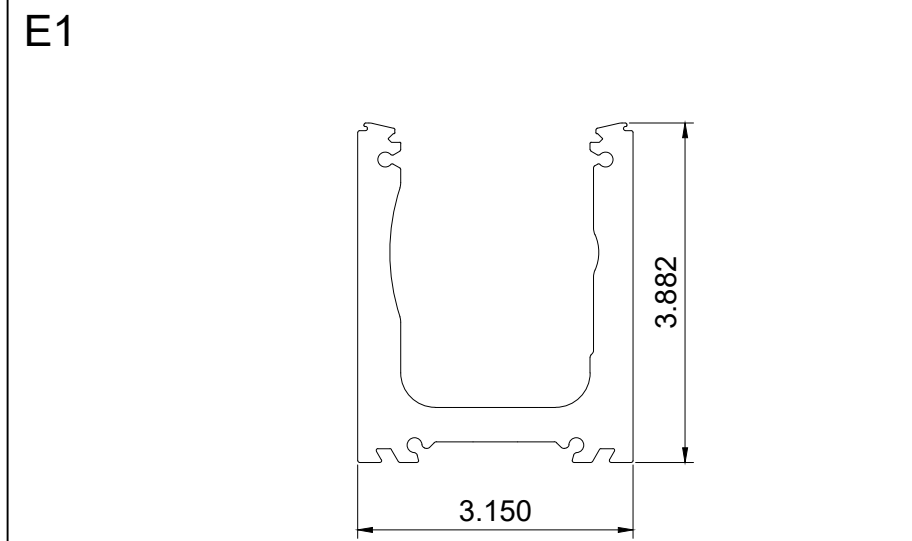
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RE Date

Approved by

BILL OF MATERIALS

CODE	PART	DESCRIPTION	MATERIAL
E1	BR78C	CHANNEL	ALUMINIUM 6063-T6
E2	BR65CP	COVER PLATE	ALUMINIUM 6063-T5/6463-T5
E3	BR68-SRP	CURVE PLATE	ALUMINIUM 6063-T5
M1	BR68-R1	RUBBER	EPDM (UVSTABLE)
M2	BR68-R25	RUBBER	EPDM (UVSTABLE)
M3	BR68-U21	U GASKET	TPV (UVSTABLE)
M4	BR68-PP	STAINLESS STEEL PLATE	STAINLESS STEEL 2205
M5	Flange nuts	RECOMMENDED 30 LB-FT TORQUE	STAINLESS STEEL 316
M6	BR68 CONNECT PIN	ALIGNING PIN	STAINLESS STEEL 316
M7	BR68-ECB	END CAP	ALUMINIUM 6063-T5/6463-T5
M8	BR68GCP	GLASS DIVIDER	EPDM (UVSTABLE)
M10	BR68SW	WASHER	STAINLESS STEEL 316



H&G HARDWARE AND GLASS GROUP LLC E-mail: wayne@hardwareandglass.com Phone: 3236475800 Address: 8 The Green Suite #7407 Dover, DE 19901	Drawing Spec.	A4	WEIGHT(KG)		Drawn by	Michael	Drawn NO. BR80-T3680-10
	Projection		Date	2022/05/06	Auditing by		
	Page	10 OF 10	RE Date		Approved by		