

GENERAL NOTES: SS-3400 STOREFRONT WINDOW SYSTEM

FLORIDA PRODUCT APPROVAL # 25574

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES ON SHEETS 2 & 3	NOT RATED FOR IMPACT RESISTANCE

- GENERAL NOTES:
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FBC, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE REQUIRED PER FBC REQUIREMENTS, WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) DESIGN PRESSURES:
- A) NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TESTING AND GLASS PER ASTM E1300
 - B) POSITIVE DESIGN LOADS BASED ON WATER INFILTRATION, STRUCTURAL TESTING AND GLASS PER ASTM E1300
 - C) DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 4) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD.
- 5) FRAME CORNERS TO BE SEALED WITH NARROW JOINT SEALANT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING PRODUCT FRAMING, ANCHORAGE AND OPENING SUBSTRATES, SHALL BE COATED OR PROTECTED TO PREVENT CORROSIVE REACTIONS AS REQUIRED BY THE FLORIDA BUILDING CODE.
- 7) REFERENCES: DEWALT ANCHOR NOA'S; TEST REPORTS: FTL 19-9235, FTL 21-1035.
- 8) THIS WINDOW SYSTEM MAY BE USED WITH ANY COMPATIBLE CGI-COMMERCIAL STOREFRONT DOOR SYSTEM. DOOR SYSTEM MUST HAVE ITS OWN APPROVAL.

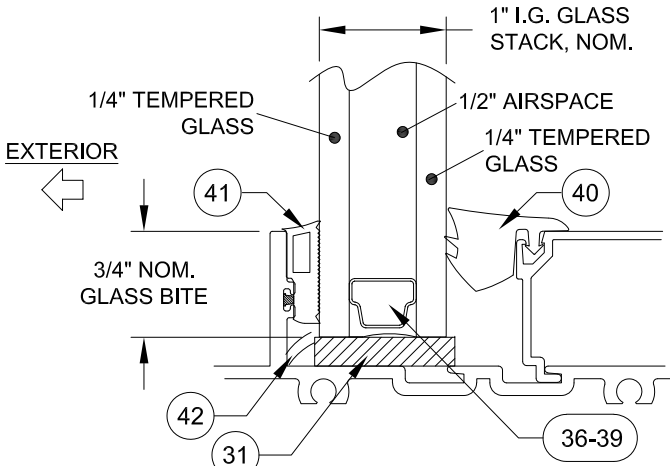
- ANCHOR NOTES:
- 1) FOR CONCRETE/CMU SUBSTRATE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ANCHORS. SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- 2) FOR SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
- 3) WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- 4) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 5) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER THE FBC AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 6) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

- INSTRUCTIONS:
- 1) DETERMINE THE BUILDING'S REQUIRED DESIGN PRESSURE USING THE ASCE 7 STANDARD. THE DOOR'S DESIGN PRESSURE MUST MEET OR EXCEED THIS VALUE.
- 2) DETERMINE THE ANCHOR GROUP FROM TABLE A, THIS SHEET.
- 3) DETERMINE THE WINDOW DESIGN PRESSURE AND ANCHOR QUANTITIES FROM SHEETS 2 & 3. IF NECESSARY, REFERENCE THE DESIGN PRESSURE OF THE STOREFRONT DOOR FROM IT'S OWN SEPARATE APPROVAL.
- 4) THE LOWEST DESIGN PRESSURE FROM ANY ABOVE, SHALL BE USED FOR THE ENTIRE ASSEMBLY.

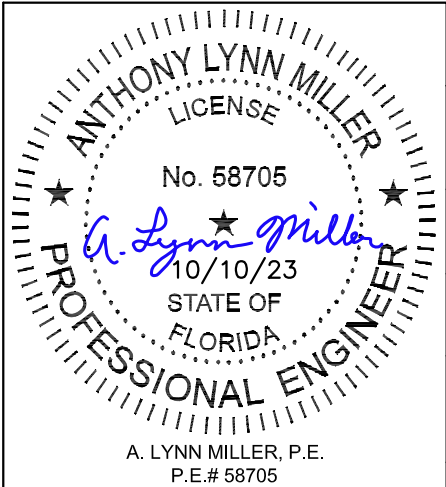
TABLE A:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment	Min. O.C. Distance
A	#14 Steel or 410 SS SMS (G5)	Southern Pine (SG=0.55)	1"	1-3/8"	1"
		Aluminum, 6063-T5 (0.125" min. thickness)	3/8"	1/8"	3/4"
		Steel Stud, Gr 33 (18 Ga.)	3/8"	0.045"	3/4"
B	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	1"	1-3/4"	3"
		Concrete (min. 3.00 ksi)	1"	1-3/8"	4"
C	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	2-1/2"	1-3/4"	3"
		Concrete (min. 3.00 ksi)	2-1/2"	1-3/8"	4"
D	1/4" DeWalt 410 S.S. Crete-Flex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"	3"
	5/16" DeWalt Ultracon	Concrete (min. 3.5 ksi)	3-1/8"	2"	3"

- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 2) ALL ANCHOR HEAD TYPES ARE ALLOWED.



GLAZING DETAIL



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Description: GENERAL NOTES					Drawn By: J ROSOWSKI
Title: STOREFRONT WINDOW SYSTEM - NI					Date: 10/10/23
Series/Model: SS3400	Scale: NTS	Sheet: 1 OF 7	Drawing No. 3400-FPA-1	Rev:	

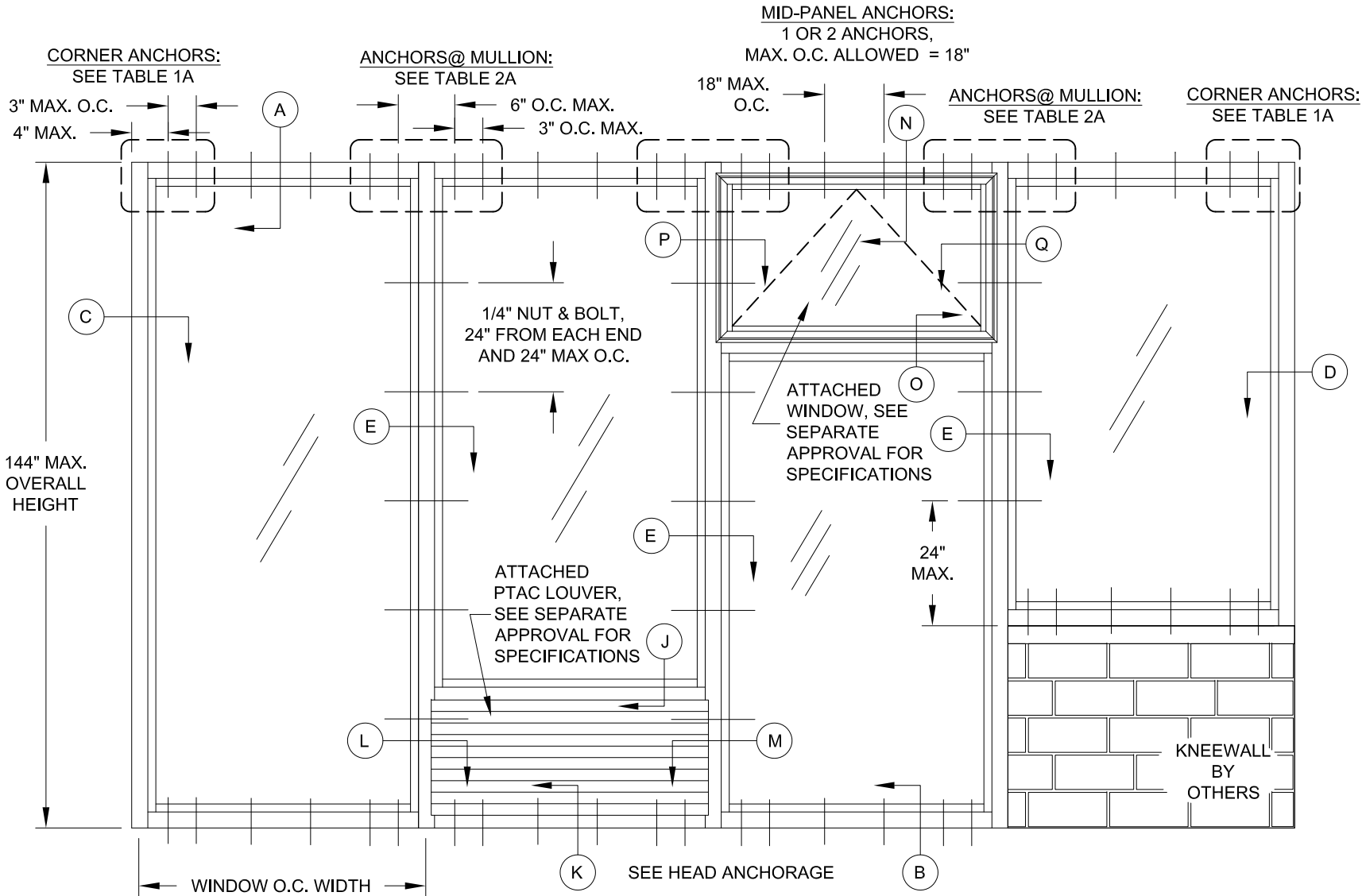
TABLE 1A:

Anchor Quantities Req'd @ Corner							
		Window OC Width					
		30"	36"	42"	48"	54"	60"
Overall Height	78"	Anchor A	3	3	3	3	3
		Anchor B	6	7	7	7	7
		Anchor C	2	2	2	2	2
		Anchor D	2	2	2	2	2
	84"	Anchor A	3	3	3	3	3
		Anchor B	6	7	7	7	7
		Anchor C	2	2	2	2	2
	90"	Anchor A	3	3	3	3	3
		Anchor B	7	7	7	7	7
		Anchor C	2	2	2	2	3
	97-3/4"	Anchor D	2	2	2	2	2
		Anchor A	3	3	3	3	3
		Anchor B	7	7	7	7	7
		Anchor C	2	2	2	2	2
	108"	Anchor D	2	2	2	2	2
		Anchor A	3	3	3	3	3
		Anchor B	7	7	7	7	7
		Anchor C	2	2	2	2	2
	120"	Anchor D	2	2	2	2	2
		Anchor A	3	3	3	3	3
		Anchor B	7	7	7	7	7
		Anchor C	2	2	2	2	2
	132"	Anchor D	2	2	2	2	2
		Anchor A	3	3	3	3	3
		Anchor B	7	7	7	7	7
		Anchor C	2	2	2	2	2
	144"	Anchor D	2	2	2	2	2
		Anchor A	3	3	3	3	3
		Anchor B	7	7	7	7	7
		Anchor C	2	2	2	2	2

ALL TABLES: FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

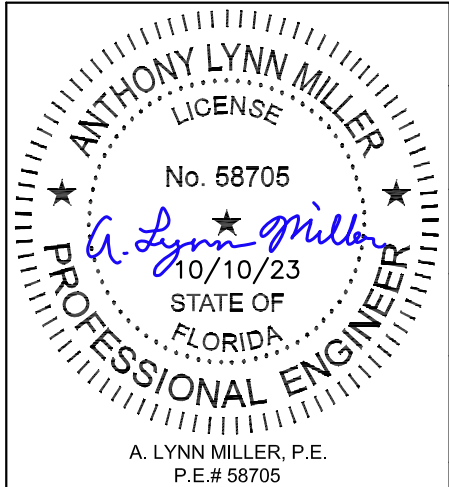
TABLE 1B:

Design Pressure (lbs/ft ²), Single or Multiple Windows							
		O.C. Width of Single Window					
		30"	36"	42"	48"	54"	60"
Overall Height	78"	+90/-150	+90/-138.5	+90/-118.7	+90/-103.8	+90/-92.3	+/-83.1
	84"	+90/-150	+90/-128.6	+90/-110.2	+90/-96.4	+/-85.7	+/-77.1
	90"	+90/-144	+90/-120	+90/-102.9	+/-90.0	+/-80.0	+/-77.1
	97-3/4"	+90/-132.6	+90/-110.5	+90/-94.7	+/-82.9	+/-73.7	+/-66.3
	108"	+90/-120	+90/-100	+/-85.7	+/-75.0	+/-66.7	+/-60.0
	120"	+90/-108	+/-90.0	+/-77.1	+/-67.5	+/-60.0	+/-54.0
	132"	+90/-98.2	+/-81.8	+/-70.1	+/-61.4	+/-54.5	+/-49.1
	144"	+/-90.0	+/-75.0	+/-64.3	+/-56.3	+/-50.0	+/-45.0



TYP. ELEVATION OF STOREFRONT WINDOW SYSTEM
CONTAINING OPTIONAL INSERTS

- NOTES:
- 1) REFER TO SEPARATE APPROVALS FOR ALL DOOR OR WINDOW INSERT REQUIREMENTS, SPECIFICATIONS AND INSTALLATION DETAILS.
 - 2) AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED PGTI WINDOW WITH A FLANGED FRAME.
 - 3) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.



CGI Commercial Architectural Products

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Revised By:	Date:	Revision:
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Description:		Drawn By:
DESIGN PRESSURE & ANCHORAGE		J ROSOWSKI
Title:		Date:
STOREFRONT WINDOW SYSTEM - NI		10/10/23
Series/Model:	Scale:	Sheet:
SS3400	NTS	2 OF 7
Drawing No.		Rev:
3400-FPA-1		

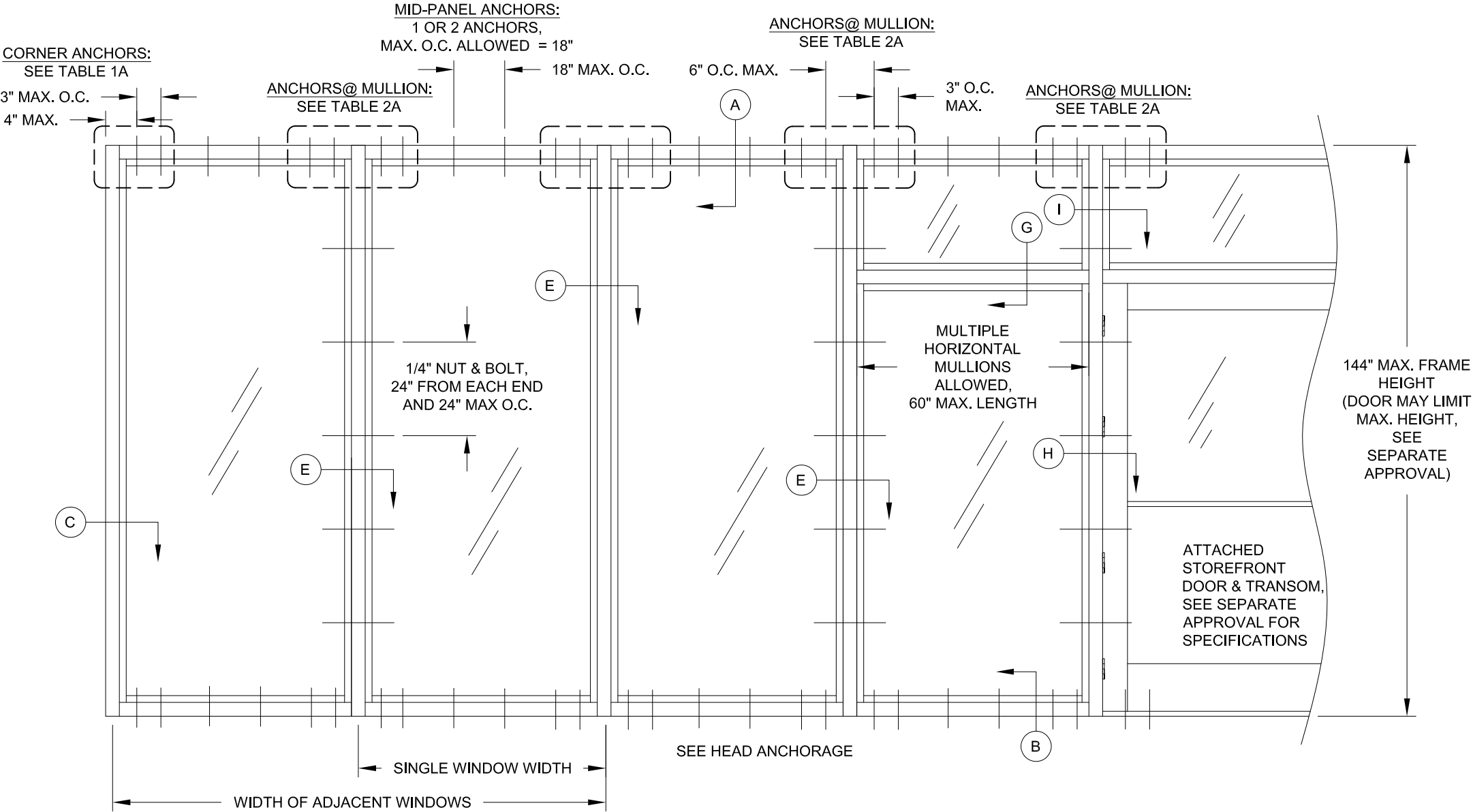
TABLE 2A:

Anchor Quantities Req'd @ Mullion							
		Width of 2 Adjacent Windows					
		60"	72"	84"	96"	108"	120"
Overall Height	78"	Anchor A	5	6	6	6	6
		Anchor B	12	13	13	13	13
		Anchor C	4	4	4	4	4
		Anchor D	3	3	3	3	3
	84"	Anchor A	6	6	6	6	6
		Anchor B	12	13	13	13	13
		Anchor C	4	4	4	4	4
		Anchor D	3	3	3	3	3
	90"	Anchor A	6	6	6	6	6
		Anchor B	13	13	13	13	14
		Anchor C	4	4	4	4	5
		Anchor D	3	3	3	3	4
	97-3/4"	Anchor A	6	6	6	6	6
		Anchor B	13	13	13	13	13
		Anchor C	4	4	4	4	4
		Anchor D	3	3	3	3	3
	108"	Anchor A	6	6	6	6	6
		Anchor B	13	13	13	13	13
		Anchor C	4	4	4	4	4
		Anchor D	3	3	3	3	3
	120"	Anchor A	6	6	6	6	6
		Anchor B	13	13	13	13	13
		Anchor C	4	4	4	4	4
		Anchor D	3	3	3	3	3
	132"	Anchor A	6	6	6	6	6
		Anchor B	13	13	13	13	13
		Anchor C	4	4	4	4	4
		Anchor D	3	3	3	3	3
	144"	Anchor A	6	6	6	6	6
		Anchor B	13	13	13	13	13
		Anchor C	4	4	4	4	4
		Anchor D	3	3	3	3	3

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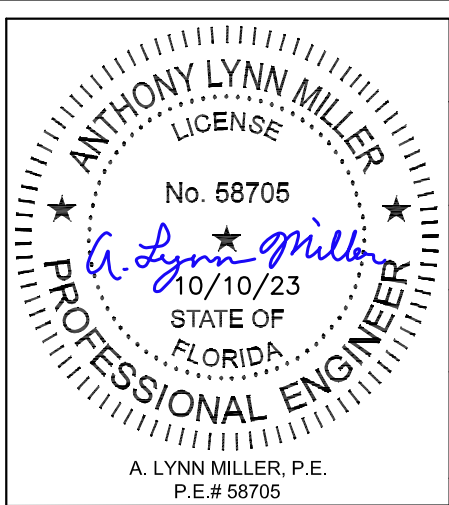
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	97-3/4"	+90/-132.6	+90/-110.5	+90/-94.7	+/-82.9	+/-73.7	+/-66.3
	108"	+90/-120	+90/-100	+/-85.7	+/-75.0	+/-66.7	+/-60.0
	120"	+90/-108	+/-90.0	+/-77.1	+/-67.5	+/-60.0	+/-54.0
	132"	+90/-98.2	+/-81.8	+/-70.1	+/-61.4	+/-54.5	+/-49.1
	144"	+/-90.0	+/-75.0	+/-64.3	+/-56.3	+/-50.0	+/-45.0



TYP. ELEVATION OF STOREFRONT WINDOW SYSTEM WITH STOREFRONT DOOR

- NOTES:
- 1) REFER TO SEPARATE APPROVALS FOR ALL DOOR OR WINDOW INSERT REQUIREMENTS, SPECIFICATIONS AND INSTALLATION DETAILS.
 - 2) AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED PGTI WINDOW WITH A FLANGED FRAME.
 - 3) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.



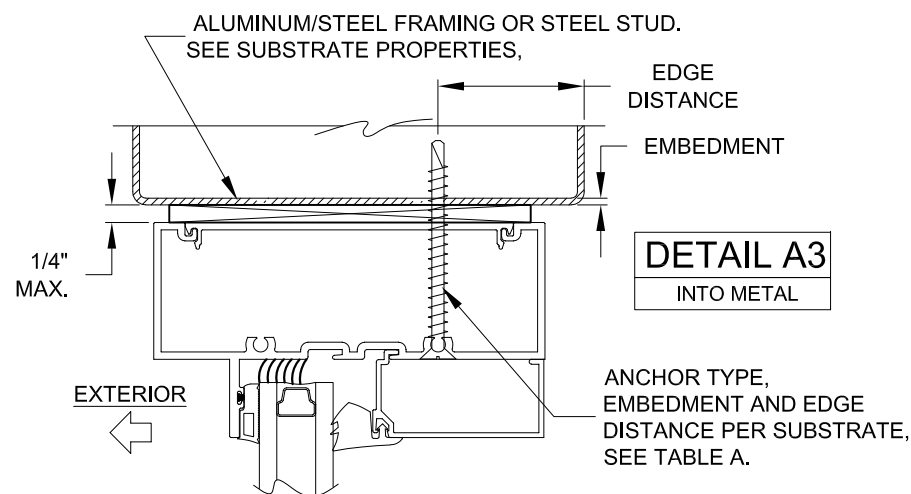
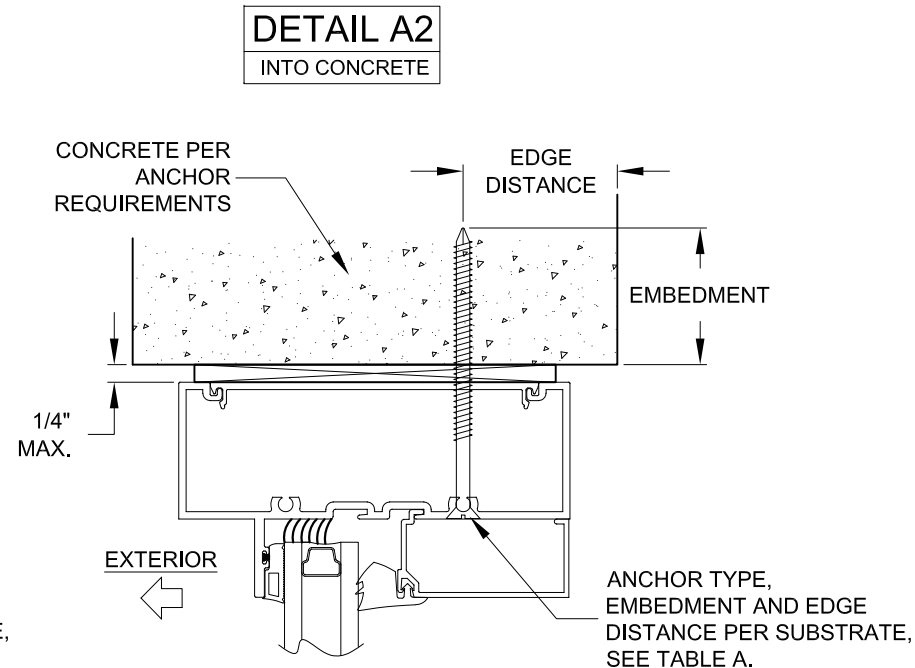
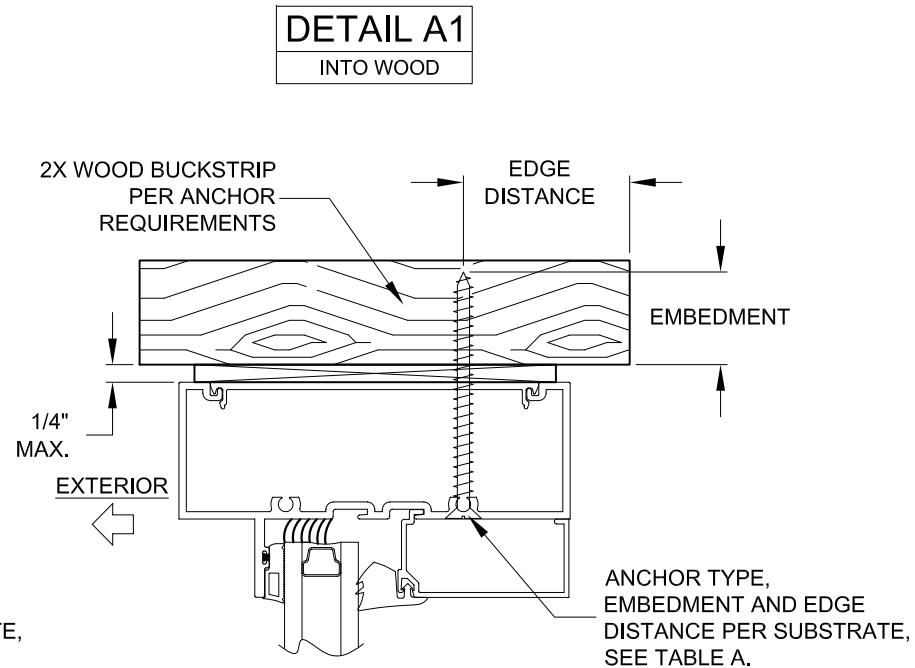
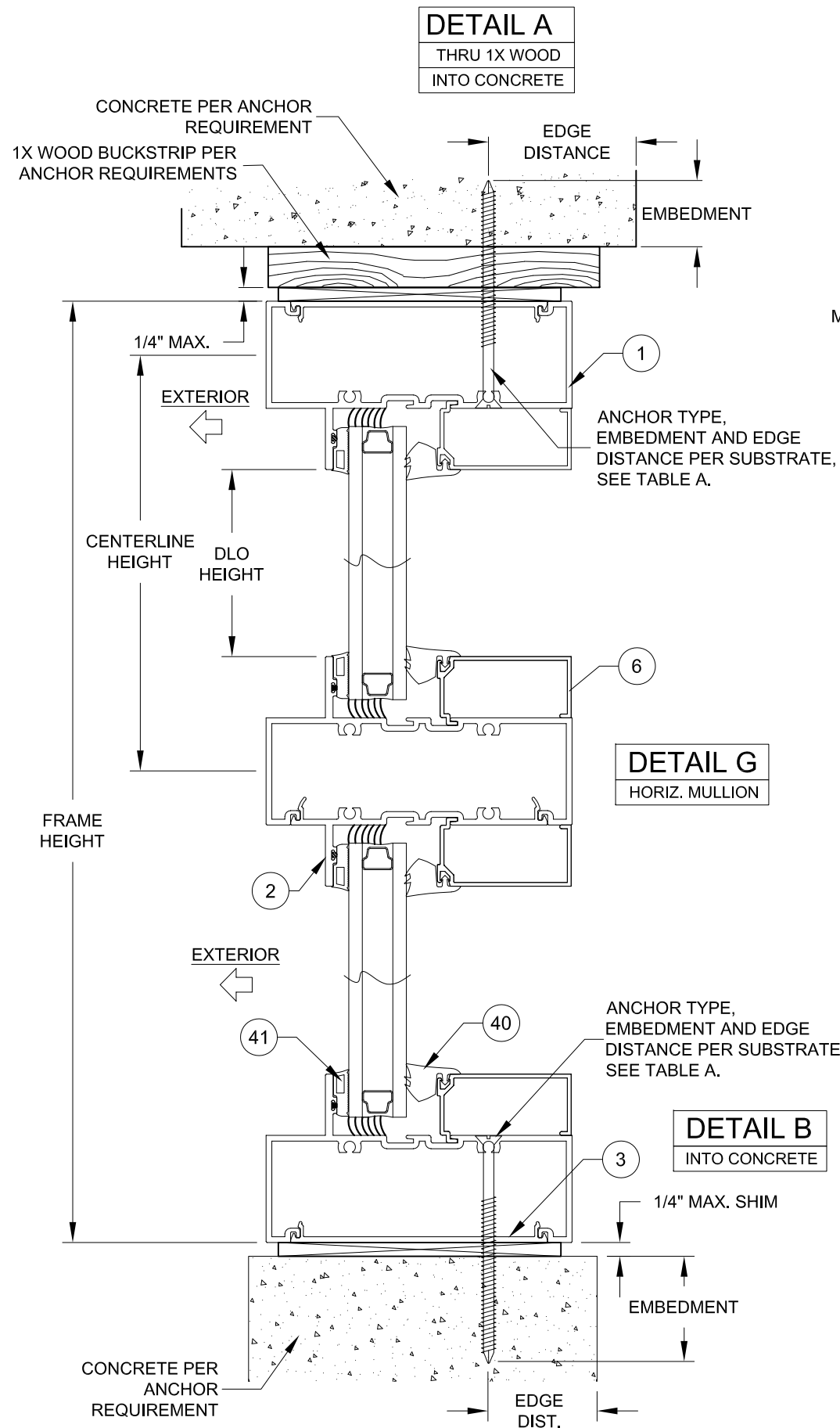
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DESIGN PRESSURE & ANCHORAGE			J ROSOWSKI
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STOREFRONT WINDOW SYSTEM - NI			10/10/23
Series/Model:	Scale:	Sheet:	Drawing No.
SS3400	NTS	3 OF 7	3400-FPA-1
			Rev:



DETAIL G
HORIZ. MULLION

ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A.

DETAIL B
INTO CONCRETE

1/4" MAX. SHIM

EMBEDMENT

NOTES:

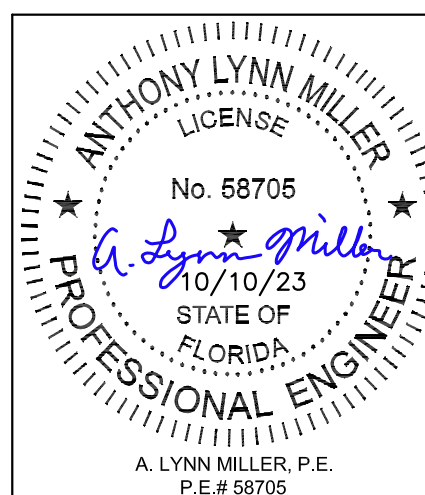
1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE A. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

DLO (DAYLIGHT OPENING) FORMULAS:

FRAME WIDTH - 5-1/2" = DLO WIDTH
FRAME HEIGHT - 5-1/2" = DLO HEIGHT

CENTERLINE WIDTH - 3-3/4" = DLO WIDTH
CENTERLINE HEIGHT - 3-3/4" = DLO HEIGHT

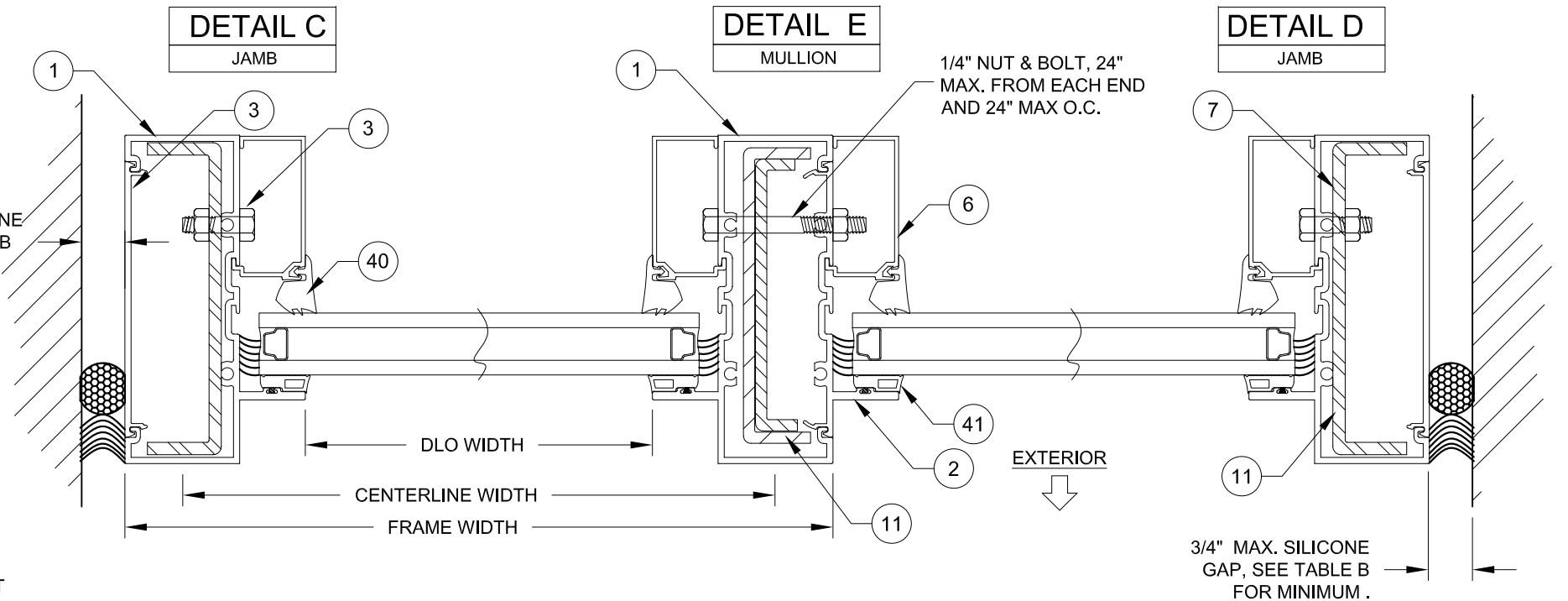
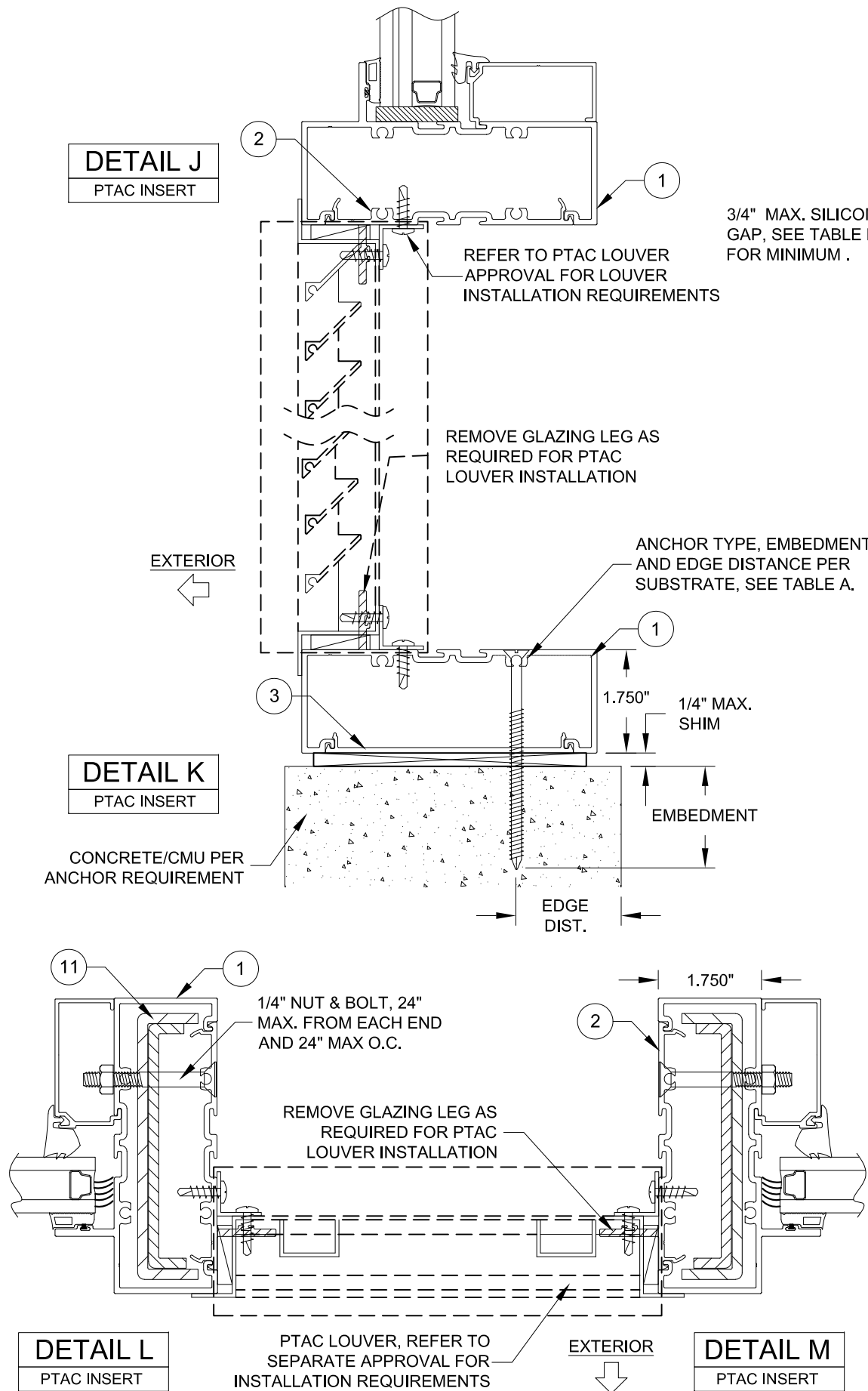


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CROSS SECTION DETAILS		J ROSOWSKI
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STOREFRONT WINDOW SYSTEM - NI		10/10/23
Series/Model:	Scale:	Sheet:
SS3400	NTS	4 OF 7
Drawing No.		Rev:
3400-FPA-1		



NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE A. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

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PTAC LOUVER NOTES:

1) REFER TO PTAC LOUVER APPROVAL FOR ALL PTAC LOUVER REQUIREMENTS AND INSTALLATION.

2) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

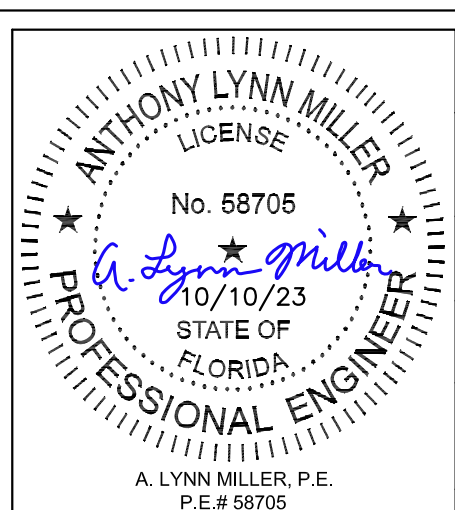
TABLE B:

Minimum Gap Width		
Frame Height	Dow Corning 790 Silicone	Dow Corning 795 Silicone
84"	0.27"	0.42"
96"	0.31"	0.48"
108"	0.35"	0.54"
120"	0.38"	0.60"
132"	0.42"	0.66"
144"	0.46"	0.72"

DLO (DAYLIGHT OPENING) FORMULAS:

FRAME WIDTH - 5-1/2" = DLO WIDTH
FRAME HEIGHT - 5-1/2" = DLO HEIGHT

CENTERLINE WIDTH - 3-3/4" = DLO WIDTH
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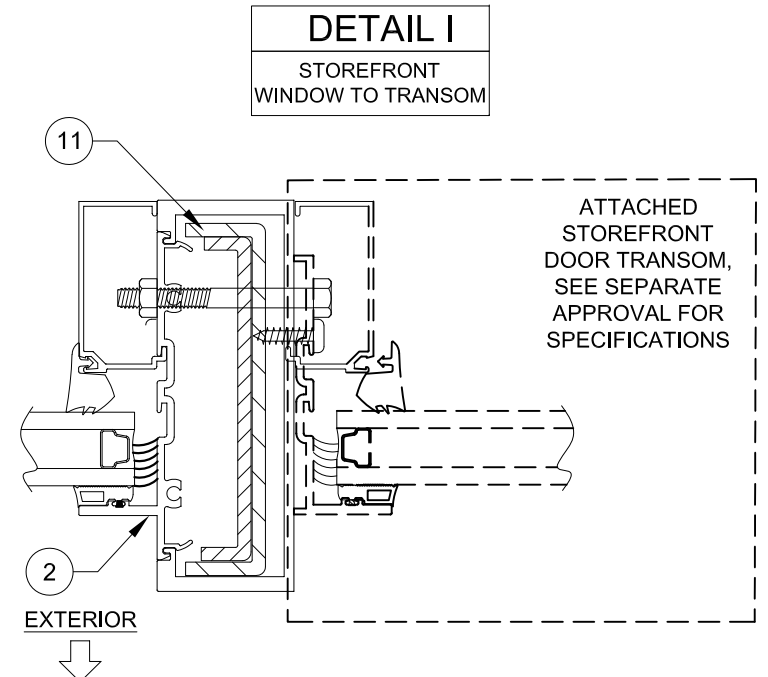
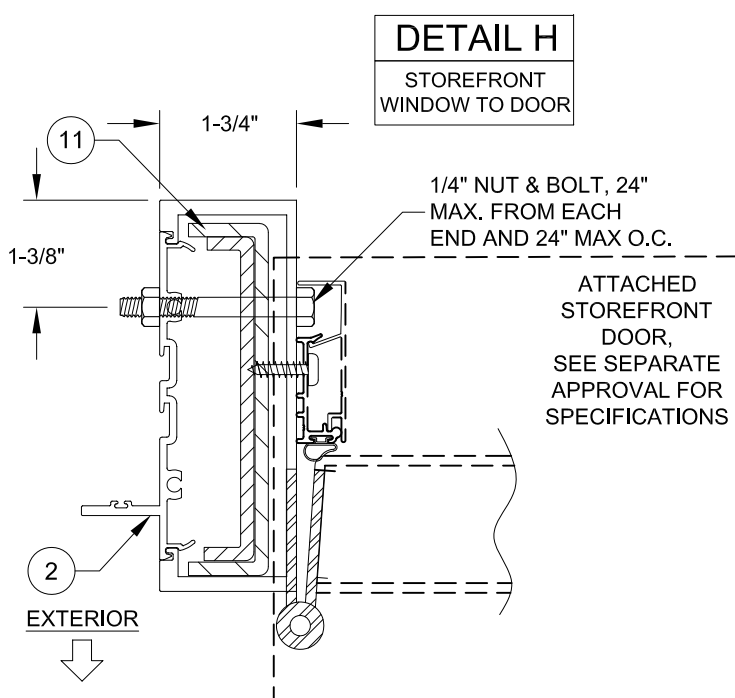
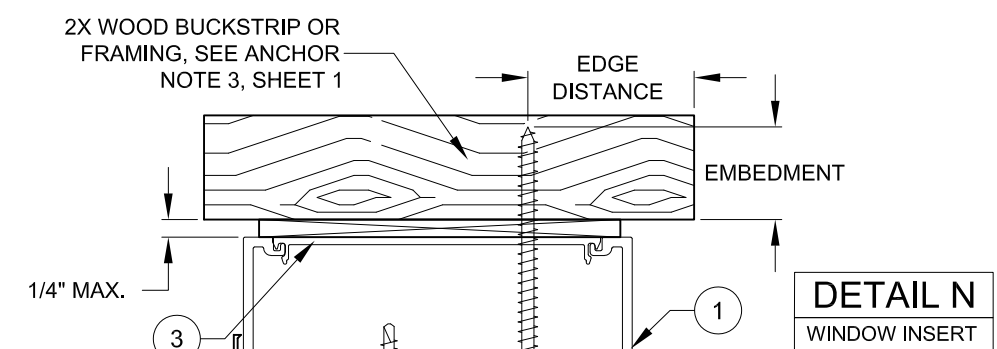


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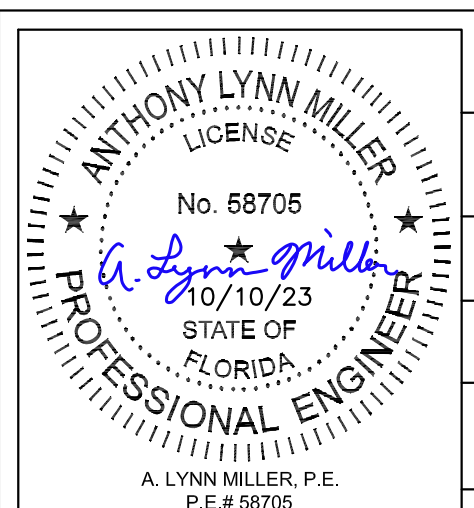
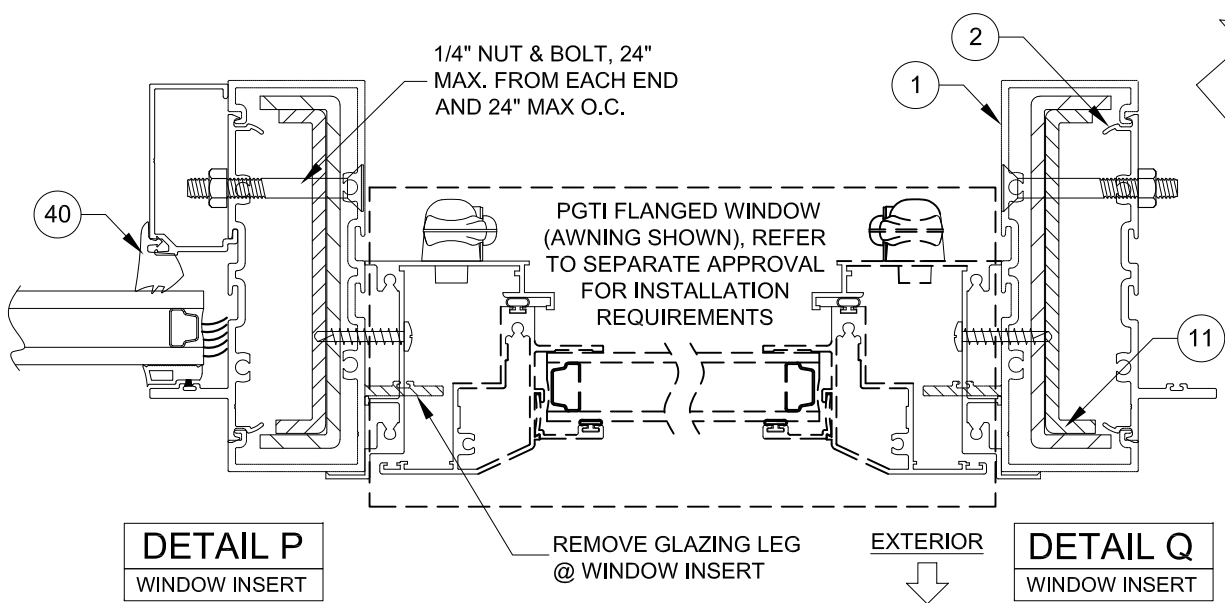
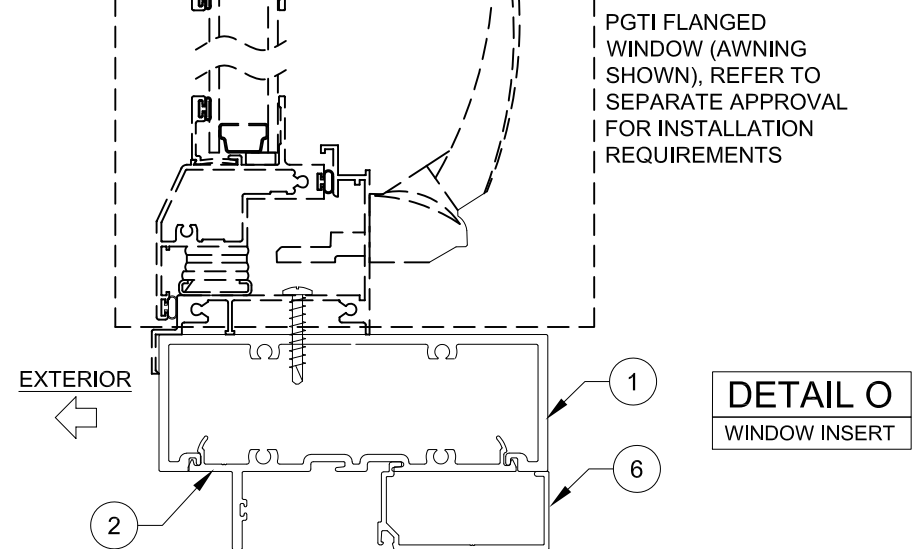
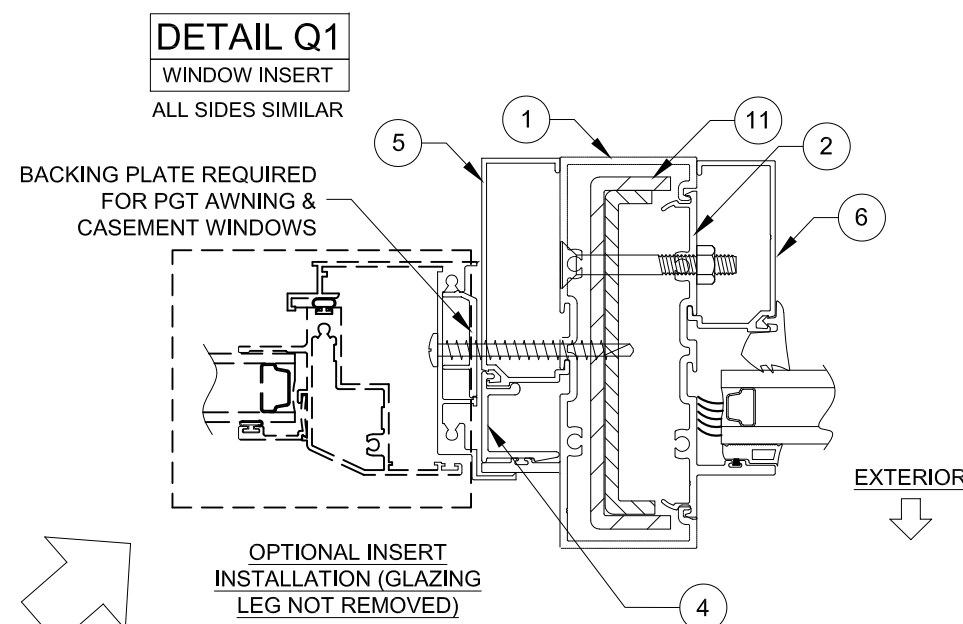
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CROSS SECTION DETAILS		J ROSOWSKI
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STOREFRONT WINDOW SYSTEM - NI		10/10/23
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SS3400	NTS	5 OF 7
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- NOTES:**
- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE A. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.
 - 2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

- WINDOW INSERT NOTES:**
- 1) REFER TO SEPARATE WINDOW APPROVAL FOR ALL WINDOW INSERT REQUIREMENTS AND INSTALLATION.
 - 2) AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED PGTI WINDOW WITH A FLANGED FRAME.
 - 3) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.



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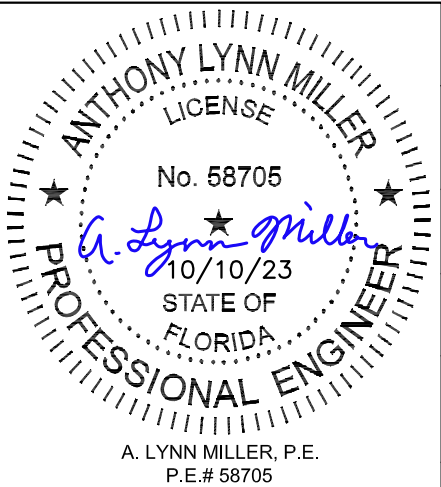
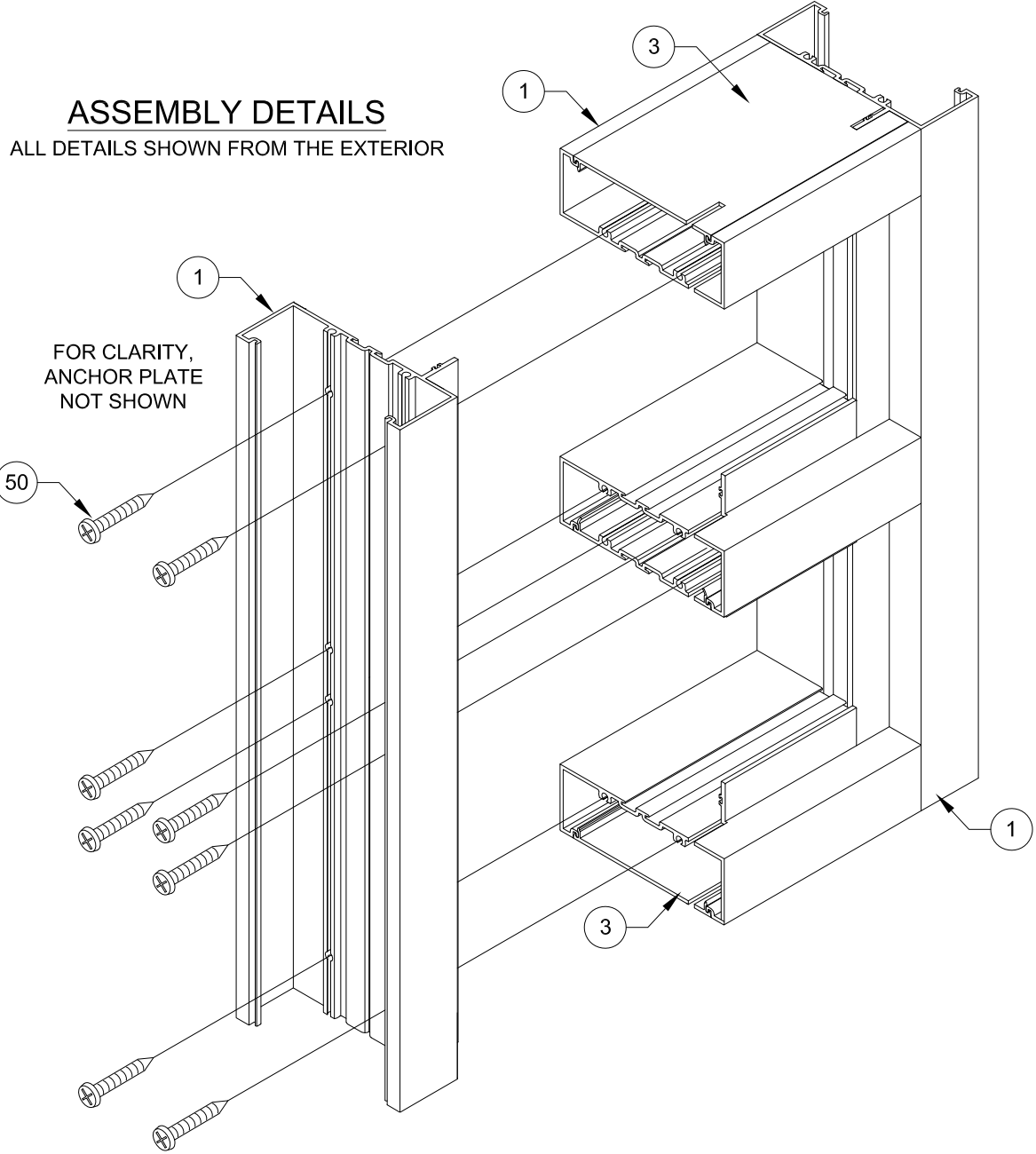
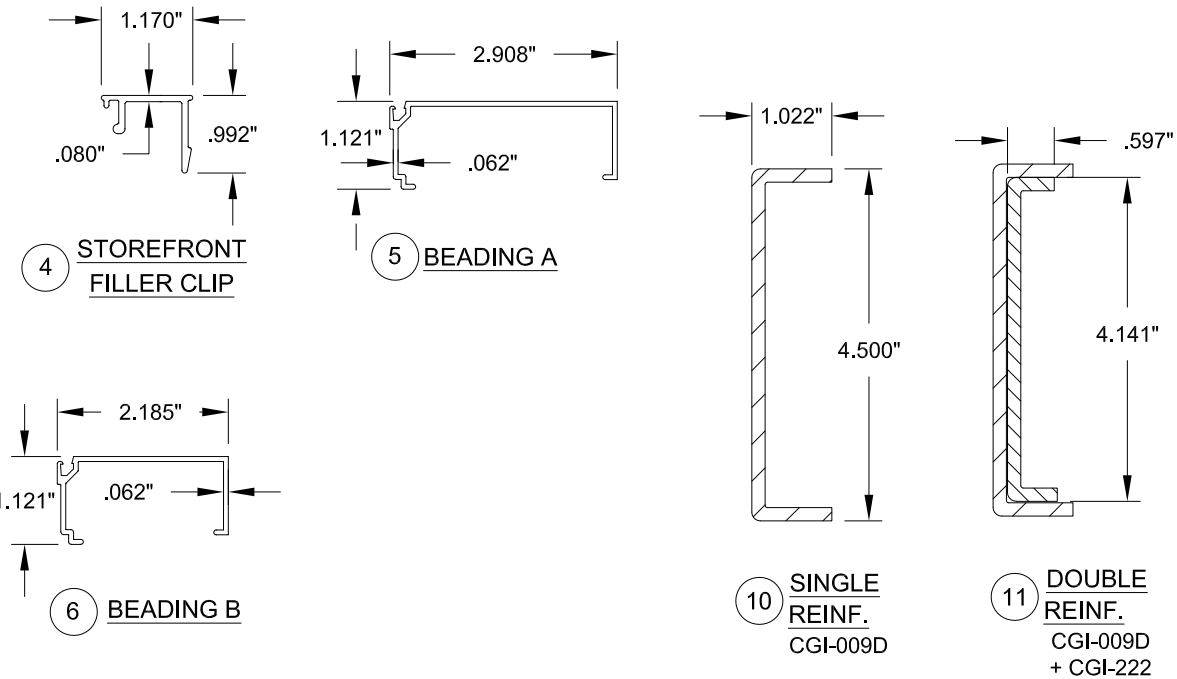
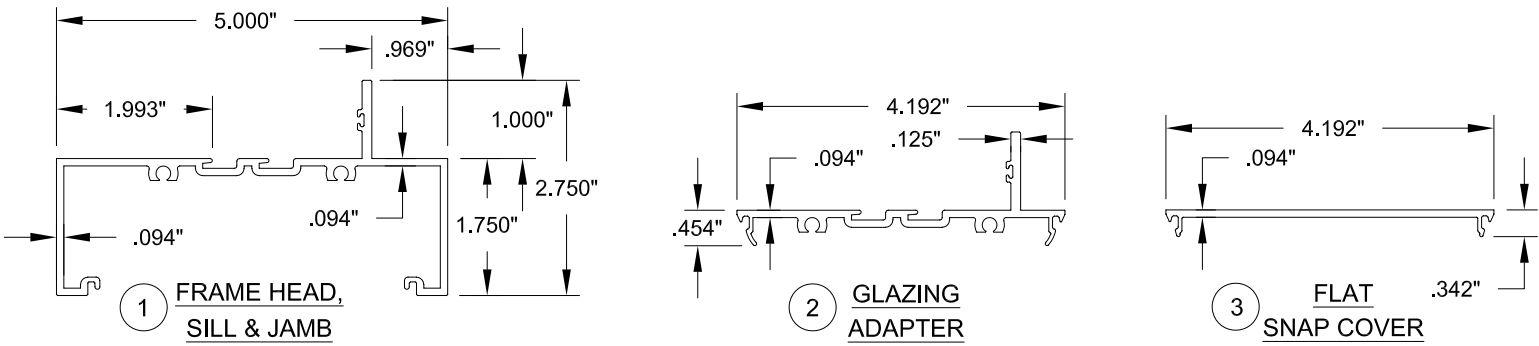
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REGISTRATION # 29296

Revised By:	Date:	Revision:			
Revised By:	Date:	Revision:			
Description: CROSS SECTION DETAILS			Drawn By: J ROSOWSKI		
Title: STOREFRONT WINDOW SYSTEM - NI			Date: 10/10/23		
Series/Model: SS3400	Scale: NTS	Sheet: 6 OF 7	Drawing No. 3400-FPA-1	Rev:	

TABLE C:

Item #	CGI Part #	Description	Material
1	CGIC-001	FRAME HEAD, JAMB & SILL	ALUM. (6063-T6)
2	CGIC-002	GLAZING ADAPTER	ALUM. (6063-T6)
3	CGIC-003	FLAT SNAP COVER	ALUM. (6063-T6)
4	619670	STOREFRONT FILLER CLIP	ALUM. (6063-T6)
5	CGIC-004	GLASS STOP "A"	ALUM. (6063-T6)
6	CGIC-005	GLASS STOP "B"	ALUM. (6063-T6)
10	CGIC-009	STEEL REINFORCEMENT	C. STEEL (A-36)
11	CGIC-009D/222	STEEL REINFORCEMENT	C. STEEL (A-36)
31	MISC-128	IG SETTING BLOCK 3/16" X 1-3/32" X 4", DURO=85 ±5	EPDM
36		KOMMERLING KODISPACE 4SG TPS SPACER SYSTEM	VARIES
37		QUANEX SUPER SPACER NXT WITH HOT MELT BUTYL	
38		QUANEX DURASEAL	
39		CARDINAL XL EDGE SPACER	EPDM
40	GSKT-190	GLAZING GASKET, GLASS STOP, DURO=65 ±5	
41	GSKT-007	GLAZING GASKET, GLAZING LEG, DURO=80 ±5	
42	SILC-131/132	SILICONE BACKBEADING: DOW791,983,995, GE7700	SANTOPRENE



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Revised By:	Date:	Revision:		
Revised By:	Date:	Revision:		
Description: EXTRUSIONS AND BOM		Drawn By: J ROSOWSKI		
Title: STOREFRONT WINDOW SYSTEM - NI		Date: 10/10/23		
Series/Model: SS3400	Scale: NTS	Sheet: 7 OF 7	Drawing No. 3400-FPA-1	Rev: