

KAWNEER TRIFAB VG 451T CENTER

GENERAL NOTES

1. THIS STOREFRONT SYSTEM HAS BEEN TESTED TO ASTM E283, ASTM E330, ASTM E331, ASTM E547, AND AAMA 501, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION, OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. PRODUCT WAS TESTED WITH AND WITHOUT INTERIOR PERIMETER SEAL, BY OTHERS. WITHOUT INTERIOR PERIMETER SEAL, STANDARD MULLIONS "M1" AND "M2" PASSED AIR INFILTRATION TESTING AT 1.56 PSF AND WATER PENETRATION RESISTANCE TEST OF 10.44 PSF; WITH INTERIOR PERIMETER SEAL, "M1" AND "M2" PRODUCTS PASSED AIR INFILTRATION TESTING AT 6.24 PSF AND WATER PENETRATION RESISTANCE TEST OF 12 PSF. MULLIONS "M3", "M4", "M5", AND "M6" REQUIRE THE INTERIOR PERIMETER SEAL AND PASSED AIR INFILTRATION TESTING AT 6.24 PSF AND WATER PENETRATION RESISTANCE TEST OF 10 PSF.

2. A FLORIDA LICENSED ENGINEER FAMILIAR WITH STOREFRONT DESIGN SHALL APPROVE SHOP DRAWINGS FOR EACH PROJECT, AND THIS ENGINEER OF RECORD SHALL TAKE FULL RESPONSIBILITY FOR THE INSTALLED SYSTEM DESIGN AS A WHOLE WHILE MAKING SURE THAT THE LIMITATIONS INDICATED IN THIS DRAWING HAVE NOT BEEN EXCEEDED. THE INSTALLED STOREFRONT SYSTEM SHALL BE FABRICATED, GLAZED, AND ANCHORED IN ACCORDANCE WITH THIS DRAWING AND KAWNEER INSTALLATION INSTRUCTIONS, AS WELL AS THE APPLICABLE TEST REPORTS, OR AS INDICATED BY THE ENGINEER OF RECORD IN APPROVED SHOP DRAWINGS.

3. THIS DRAWING INDICATES VARIOUS APPROVED GLAZING METHODS AND FRAMING TYPES WHICH MAY BE USED SINGLY OR IN COMBINATION FOR EACH PROJECT, WITH THE LOWEST DESIGN CAPACITY OF ANY INDIVIDUAL COMPONENT APPLYING TO THE ENTIRE ASSEMBLY. ANY NUMBER OF PANELS MAY BE USED HORIZONTALLY PROVIDED THE MAXIMUM DLO SIZES AS INDICATED IN THIS DRAWING ARE NOT EXCEEDED.

4. THIS PRODUCT IS NON-IMPACT AND REQUIRES THE USE OF APPROVED SHUTTERS IN WINDBORNE DEBRIS AREAS.

5. REQUIRED DESIGN PRESSURES SHALL BE DETERMINED FOR EACH PROJECT IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND GOVERNING WIND SPEEDS FOR THE PROJECT LOCATION.

6. THE ALLOWABLE DESIGN PRESSURES AND LOAD CAPACITIES SHOWN IN THIS DRAWING ARE ALLOWABLE STRESS DESIGN (ASD) BASIS AND ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, TESTED PRESSURES, AND MULLION CALCULATIONS. ALTERNATE COMPARATIVE OR RATIONAL ANALYSIS CALCULATIONS AS DEEMED APPROPRIATE ON A PROJECT BASIS BY THE ENGINEER OF RECORD IS ACCEPTABLE.

7. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING BUT NOT LIMITED TO FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SUBSTRATES OR ALUMINUM, SHALL BE COATED OR OTHERWISE PROTECTED PER FBC REQUIREMENTS TO PREVENT CORROSION OR GALVANIC REACTIONS.

8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT IS NOT WITHIN THE SCOPE OF THIS APPROVAL AND SHALL BE THE RESPONSIBILITY OF OTHERS.

9. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF WOOD SUBSTRATE.

10. STRUCTURAL INTEGRITY OF SUBSTRATE MATERIALS TO RECEIVE THE LOADS FROM THIS PRODUCT, AND INSTALLATION OF WOOD BUCKS OR OTHER ACCESSORIES TO THE SUBSTRATE, TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

11. THIS PRODUCT SHALL BE INSTALLED USING ONE OF THE APPROVED FASTENING METHODS INDICATED IN THIS DRAWING, AS APPROPRIATE FOR THE SUBSTRATE TYPE, OR AS INDICATED BY THE ENGINEER OF RECORD IN APPROVED SHOP DRAWINGS. ANCHOR SIZE, EMBEDMENT, EDGE DISTANCE, AND LOCATIONS, SHALL BE IN ACCORDANCE WITH THESE DRAWINGS OR AS INDICATED IN APPROVED SHOP DRAWINGS.

12. MINIMUM ANCHOR EMBEDMENTS LISTED IN THIS DRAWING SHALL BE BEYOND WALL DRESSING OR STUCCO AND FULLY INTO SUBSTRATE. LOAD-BEARING SHIMS SHALL BE USED AT ALL ANCHOR LOCATIONS WHERE A GAP OF MORE THAN 1/16" EXISTS BETWEEN THE PRODUCT AND OPENING SUBSTRATE. MAXIMUM SHIM GAP IS AS INDICATED IN THESE DRAWINGS.

13. SUBTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN ANCHOR DETAILS IN SECTION 6. CONCRETE OR MASONRY SUBSTRATES SHALL NOT BE CRACKED. FOR INSTALLATION TO METAL SUBSTRATES, ANCHORS SHALL BE LONG ENOUGH TO BE FULLY THREADED THROUGH THE METAL THICKNESS WITH AN ADDITIONAL 3/16" MIN. OF THREADS BEYOND.

14. CONSTRUCTION NOTES: THE VERITICAL FRAME MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT & BUTTED TO THE VERTICAL FRAME MEMBER. THE VERTICAL MEMBERS ARE FASTENED TO THE HORIZONTAL MEMBERS WITH ANCHORS INTO SCREW SPLINES OR WITH SHEAR BLOCKS AS INDICATED IN THIS DRAWING. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH KAWNEER INSTALLATION INSTRUCTIONS. APPLY SEALANT TO PROFILE ENDS OF ALL HORIZONTAL MEMBERS AT ASSEMBLY PER INSTALLATION INSTRUCTIONS. APPLY SEALANT IN GASKET REGLETS AND ON VERTICAL MULLION FACE UNDER GLASS STOPS PER INSTALLATION INSTRUCTIONS.

SILICONE REQUIREMENTS:

DOW CORNING 791 - WEATHER SEALS 

PERIMETER SEALS (BY OTHERS) 

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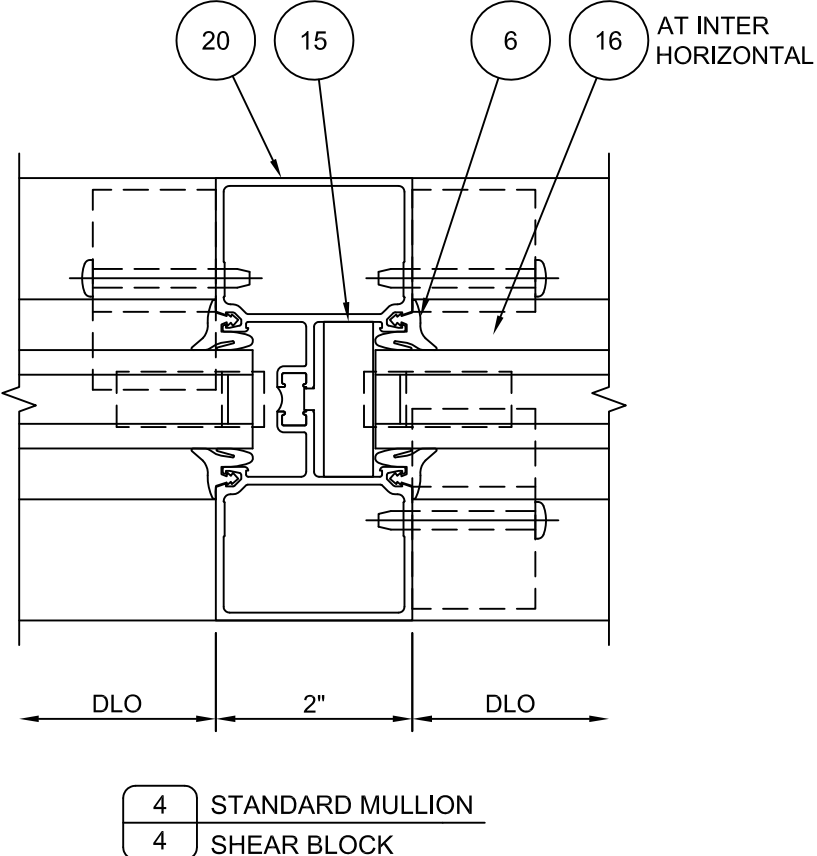
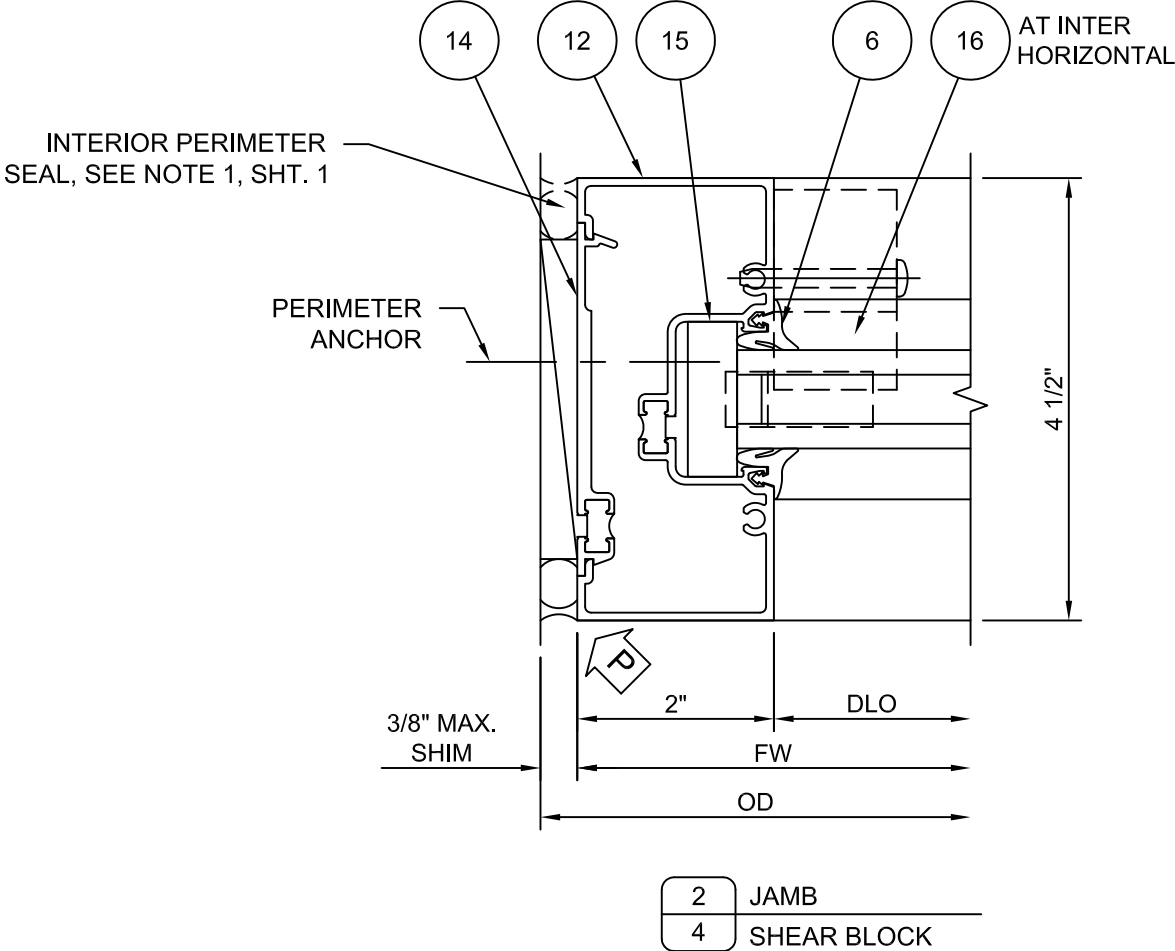
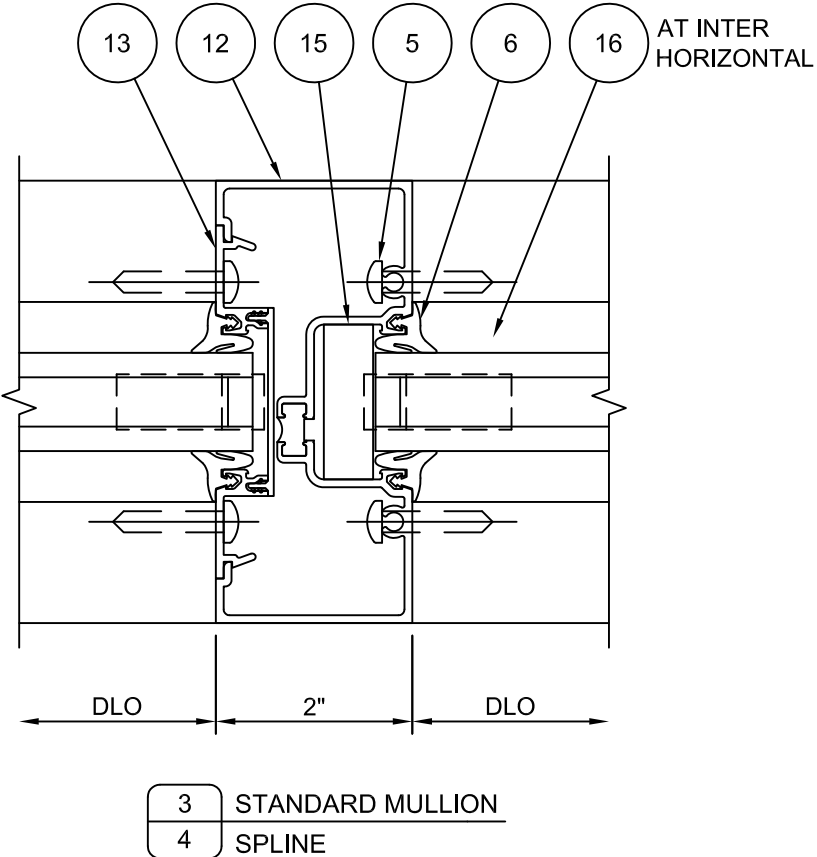
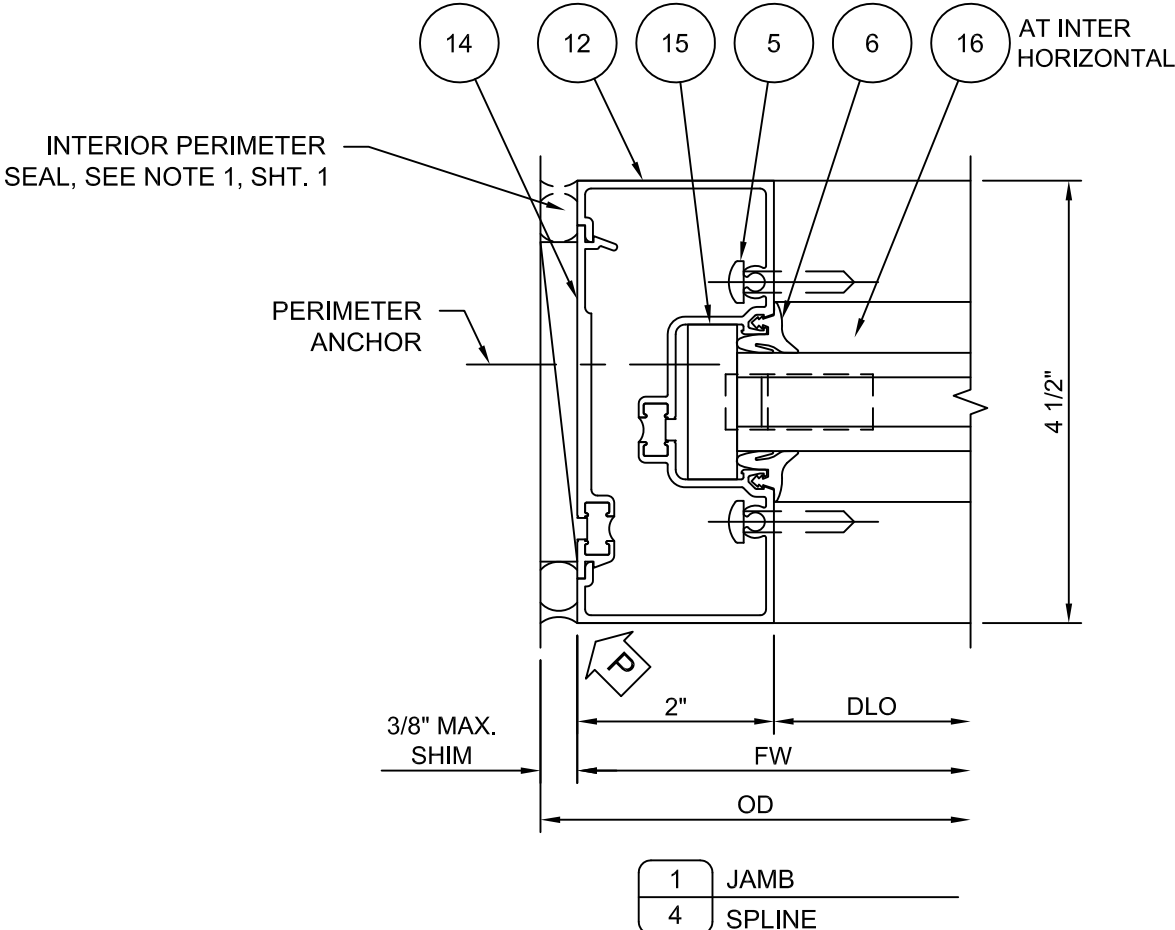
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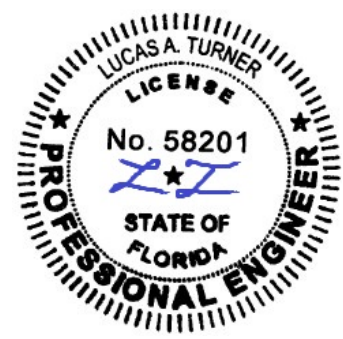
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TURNER ENGINEERING & CONSULTING, INC.
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

DRAWING NO. 451T-Center	PRODUCT TRIFAB VG 451T
FPA # FL37876	SECTION 01
DATE 02/03/2021	
SCALE NTS	SHEET 01 OF 16



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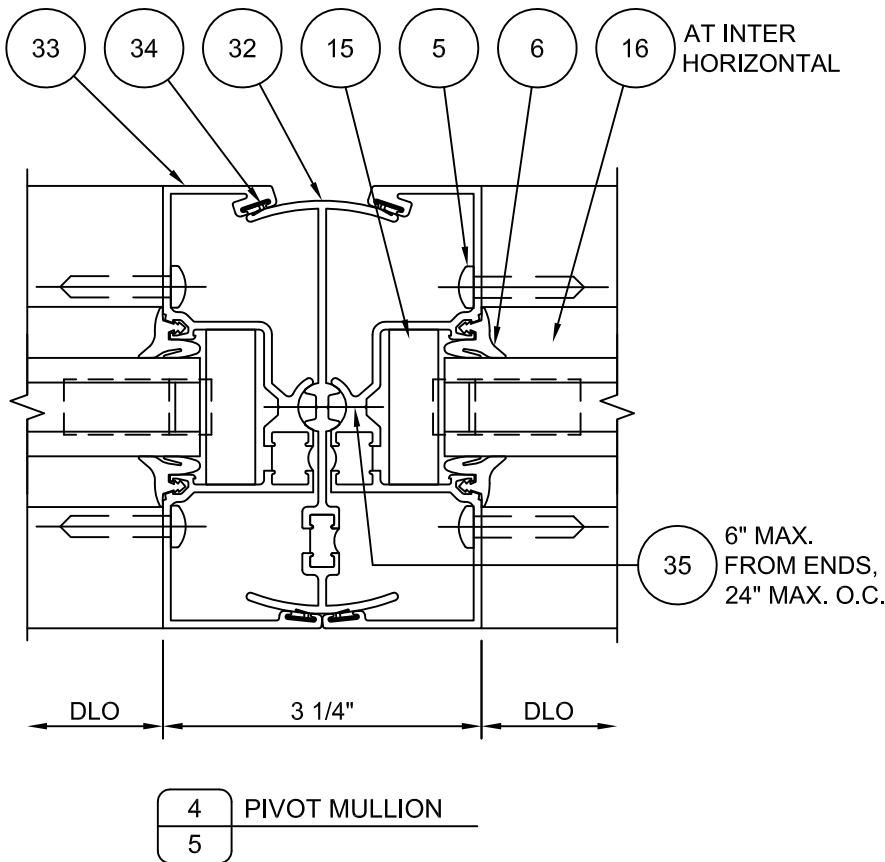
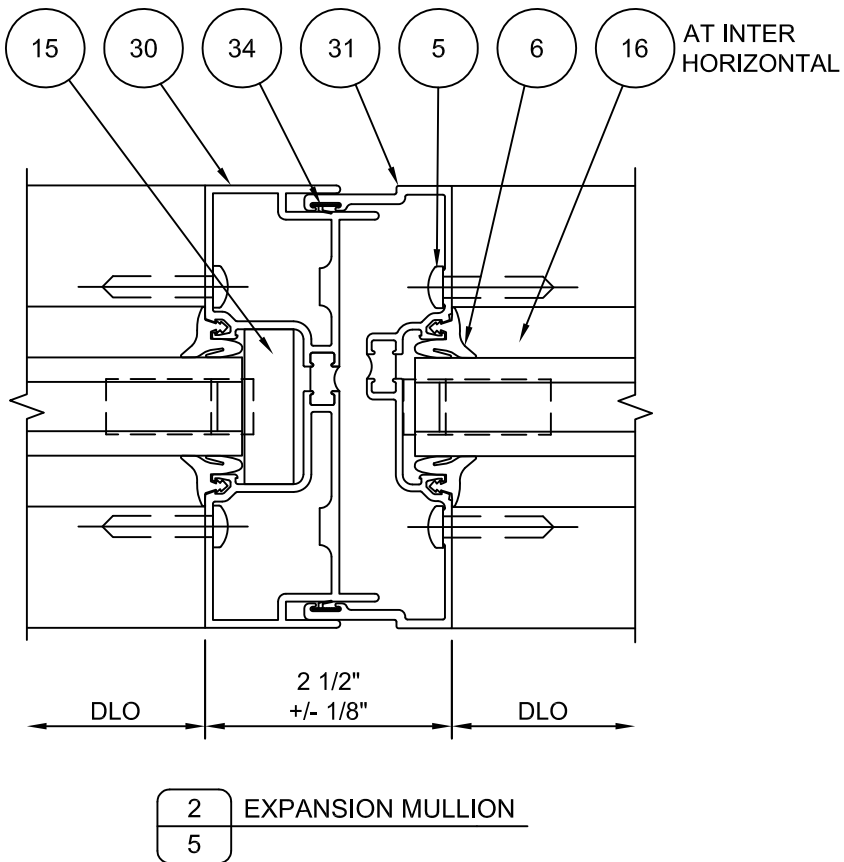
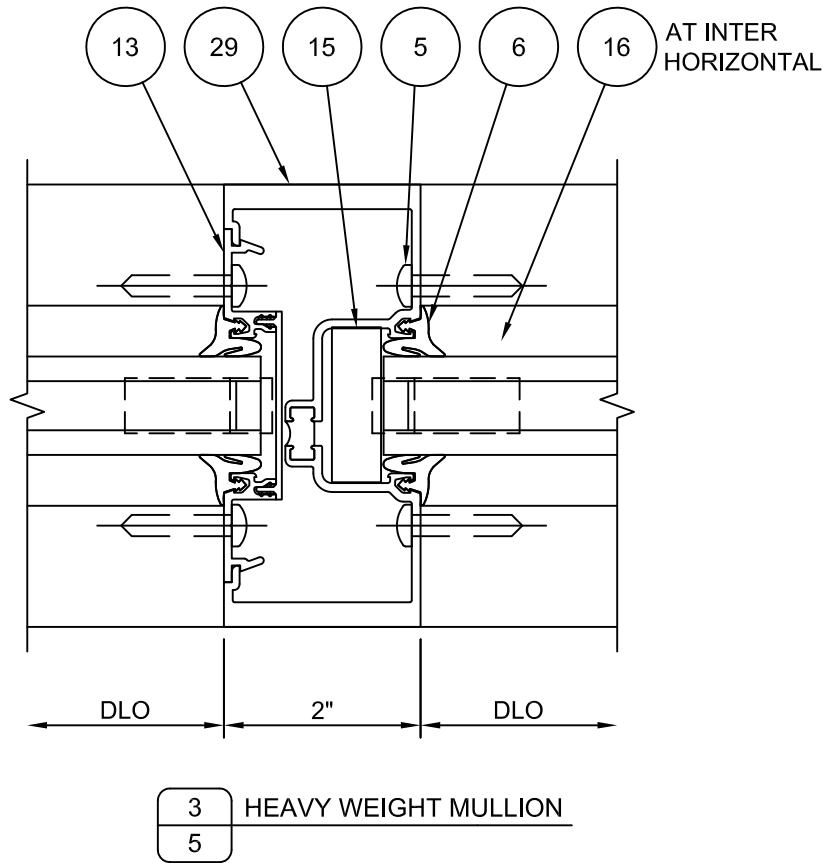
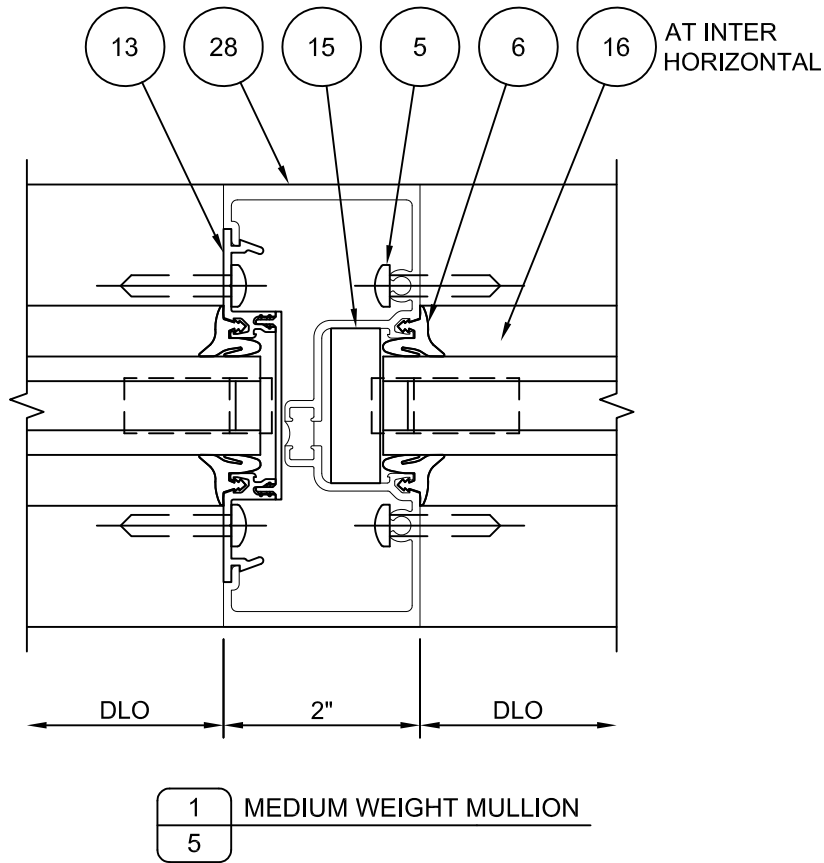


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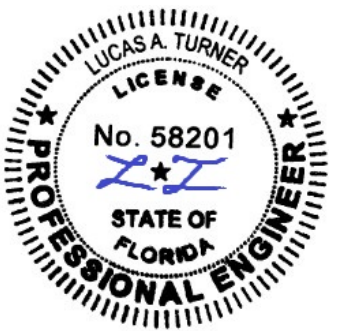
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FPA # FL37876	SECTION 03
DATE 02/03/2021	
SCALE NTS	SHEET 04 OF 16

8/17/2023	02/03/2021	DATE
1	-	REV. #
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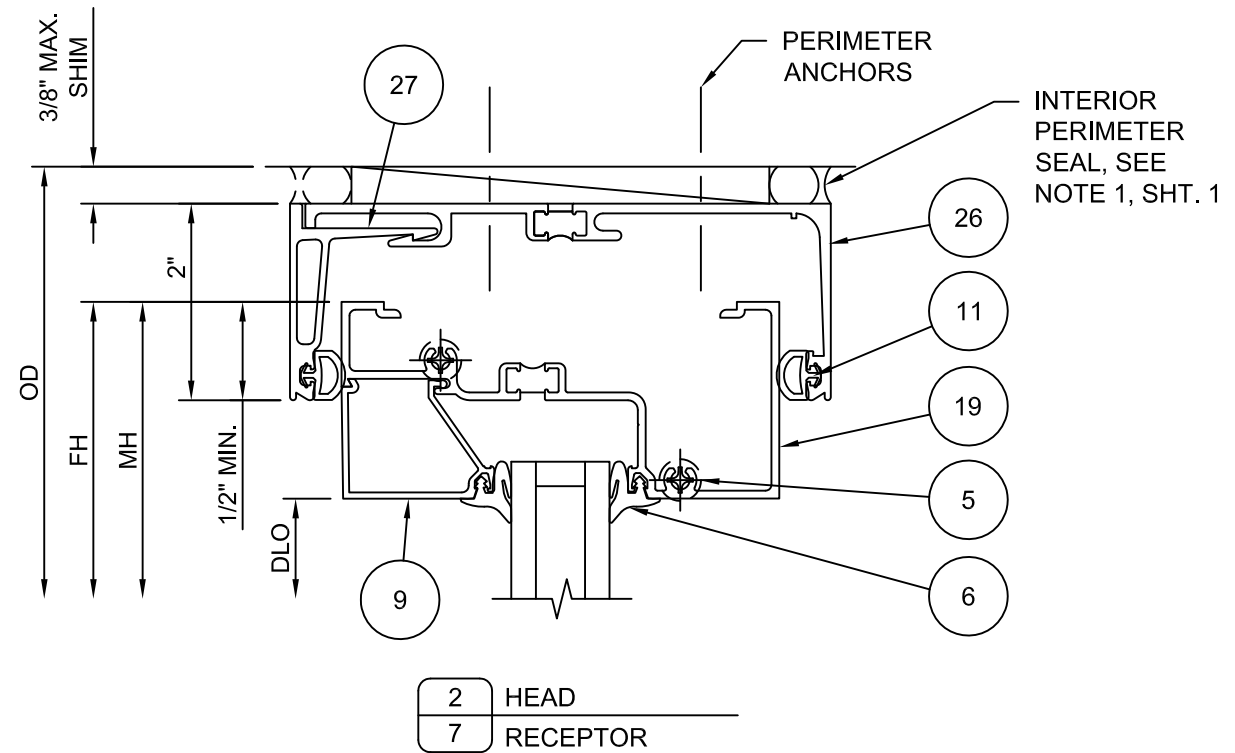
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FPA # FL37876	SECTION 03
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SCALE NTS	SHEET 05 OF 16

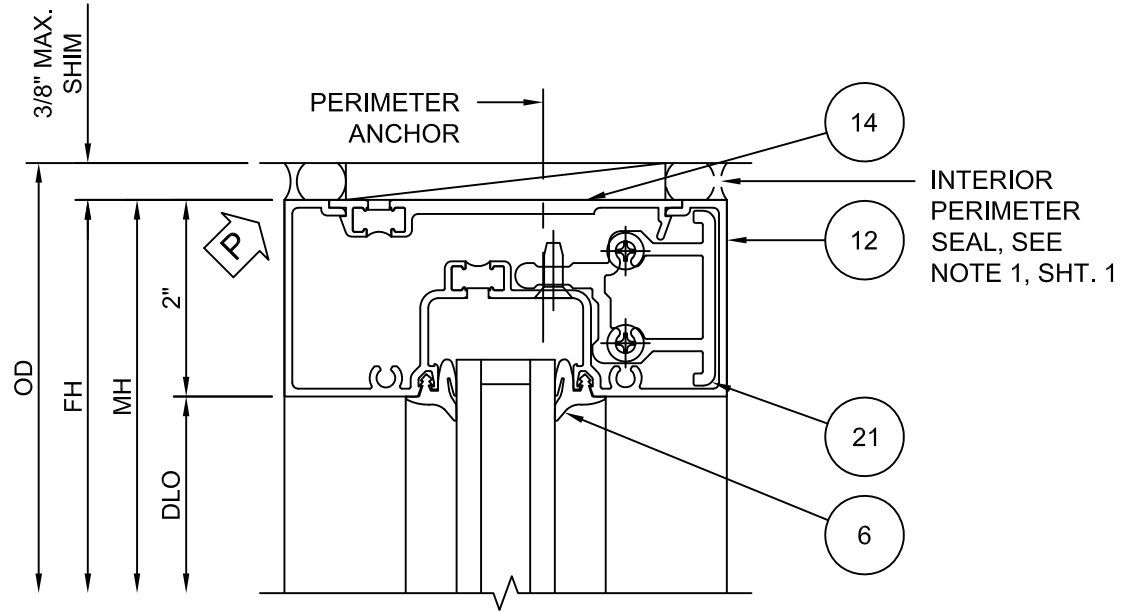


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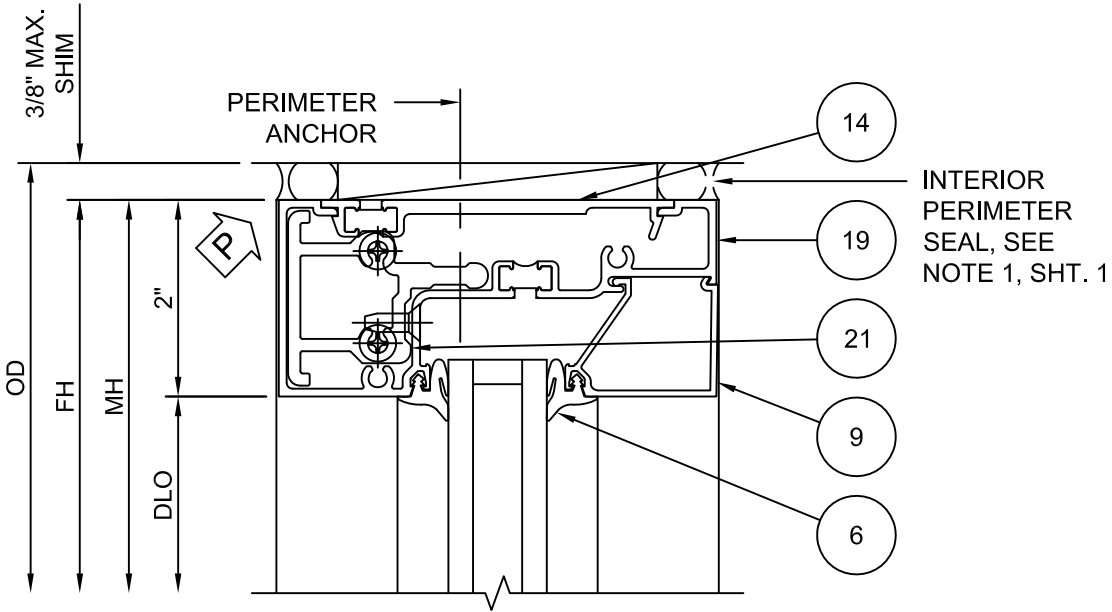
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FPA # FL37876	SECTION 03
DATE 02/03/2021	
SCALE NTS	SHEET 07 OF 16

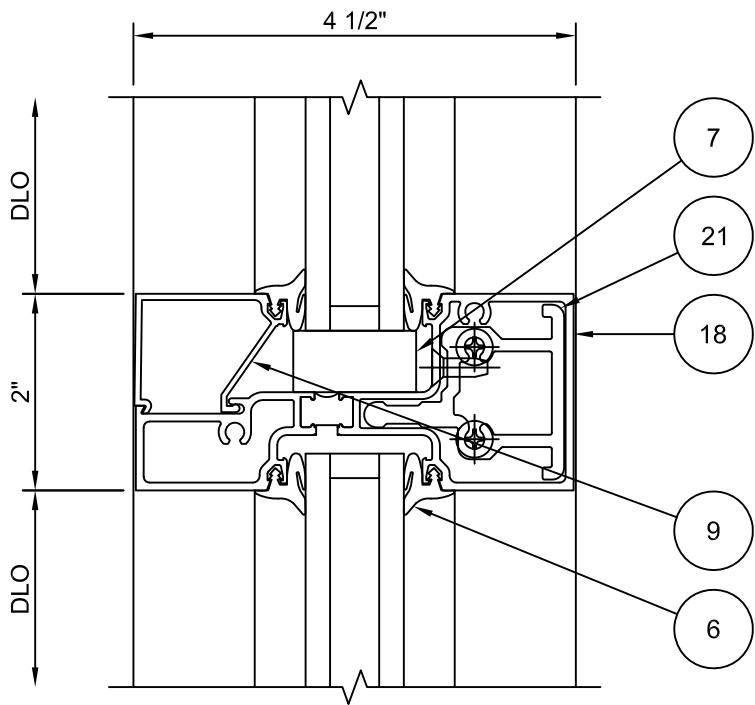
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INITIAL RELEASE	-	02/03/2021	
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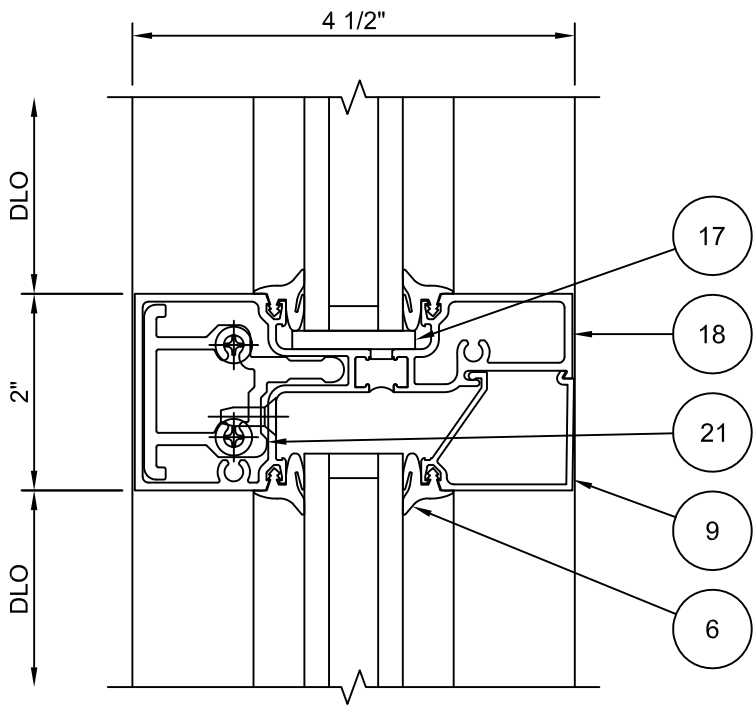
- 1 HEAD
- 8 OG SU SHEAR BLOCK



- 3 HEAD
- 8 IG SHEAR BLOCK



- 2 HORIZONTAL
- 8 OG SU SHEAR BLOCK



- 4 HORIZONTAL
- 8 IG SHEAR BLOCK



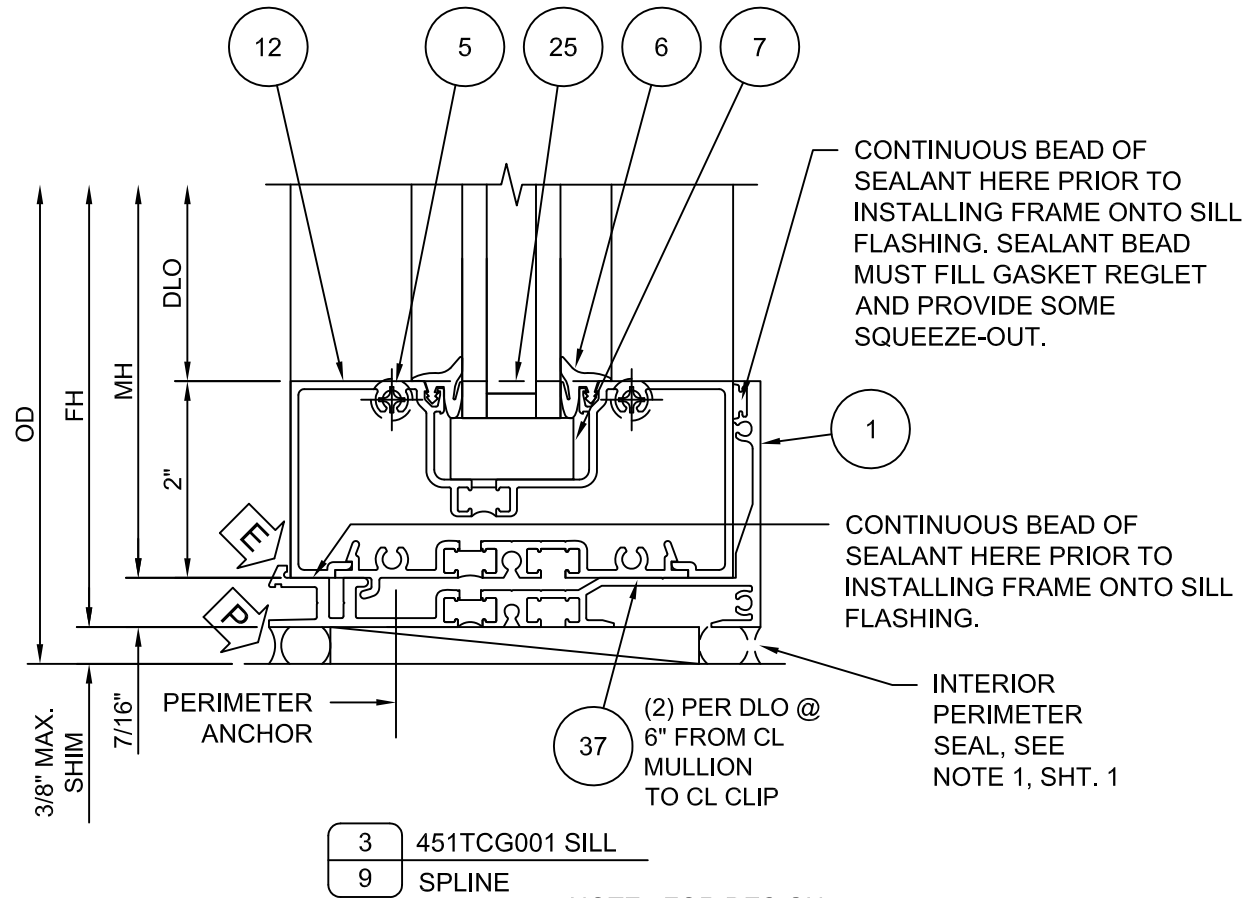
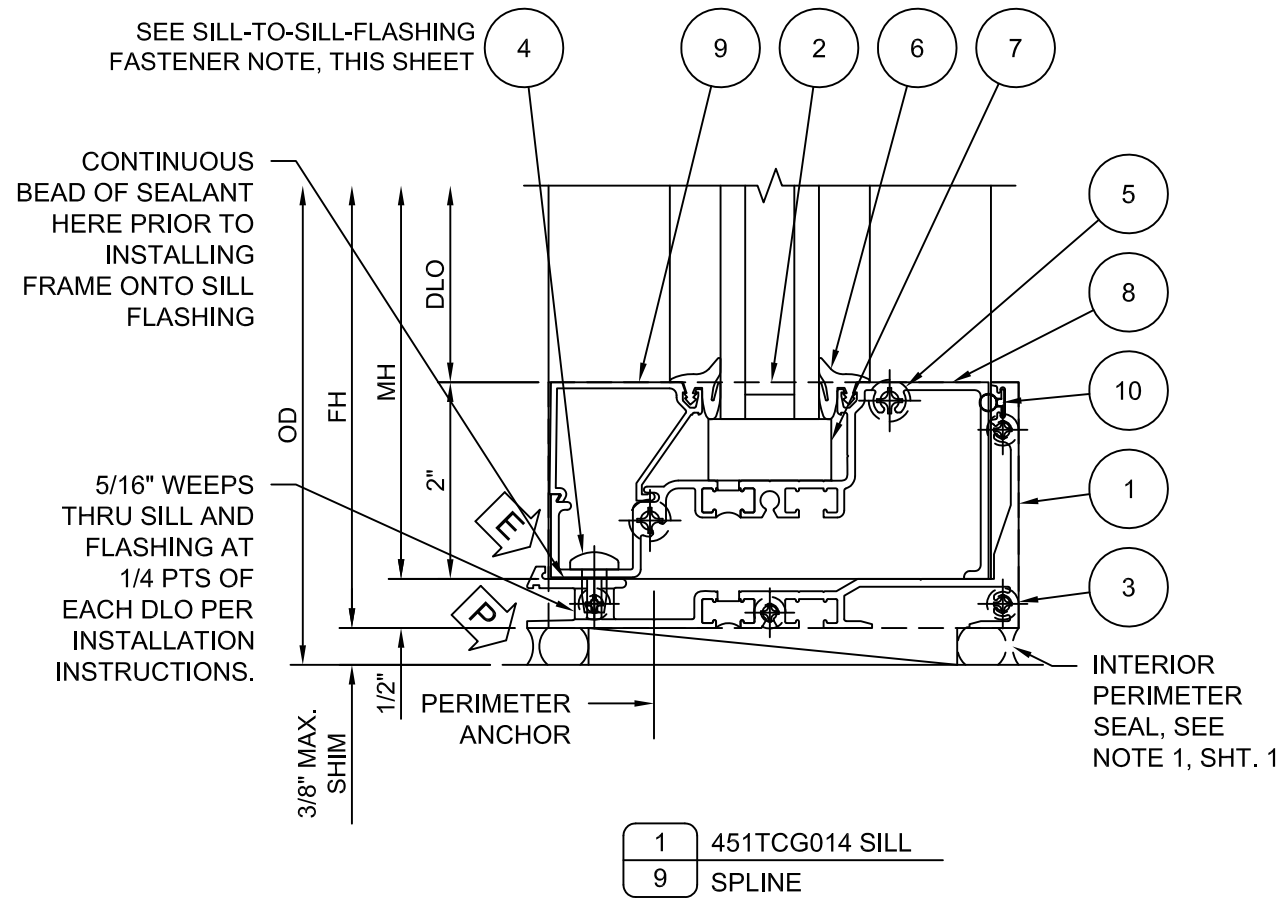
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NOTE: FOR DESIGN PRESSURE LIMITS WHEN UTILIZING THIS SILL OPTION, SEE SHEET 13, SILL FILLER CLIP LOAD CAPACITY TABLE

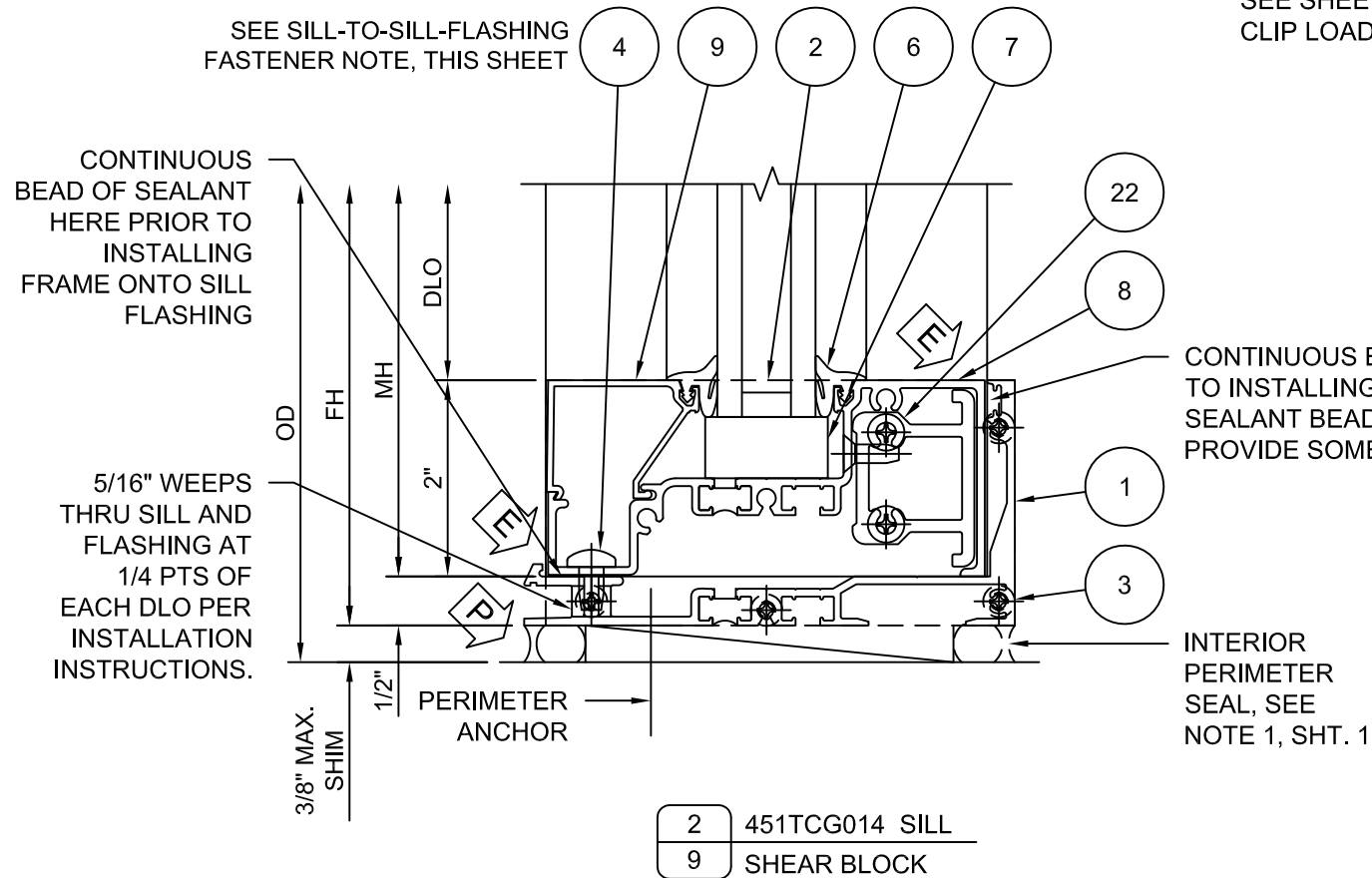
SILL-TO-SILL-FLASHING FASTENER NOTE:

ATTACH SILL TO SILL FLASHING USING #10 SCREWS P/N 128407, AT 12" MAX. ON-CENTER FASTENER SPACING, AND WITH FASTENER CLUSTER QUANTITY AT MULLIONS DETERMINED BY MULLION END REACTION:

MULL END REACTION ≤ 400 LB, USE ONE (1) FASTENER EACH SIDE OF VERTICAL MULLION, LOCATED 3" FROM END OF THE SILL MEMBER.

MULL END REACTION > 400 LB AND ≤ 800 LB, USE TWO (2) FASTENERS EACH SIDE OF VERTICAL MULLION, STARTING 3" FROM END OF THE SILL MEMBER AND SPACED 2" ON CENTERS GOING AWAY FROM THE END.

MULL END REACTION > 800 LB, USE THREE (3) FASTENERS EACH SIDE OF VERTICAL MULLION, STARTING 3" FROM END OF THE SILL MEMBER AND SPACED 2" ON CENTERS GOING AWAY FROM THE END.



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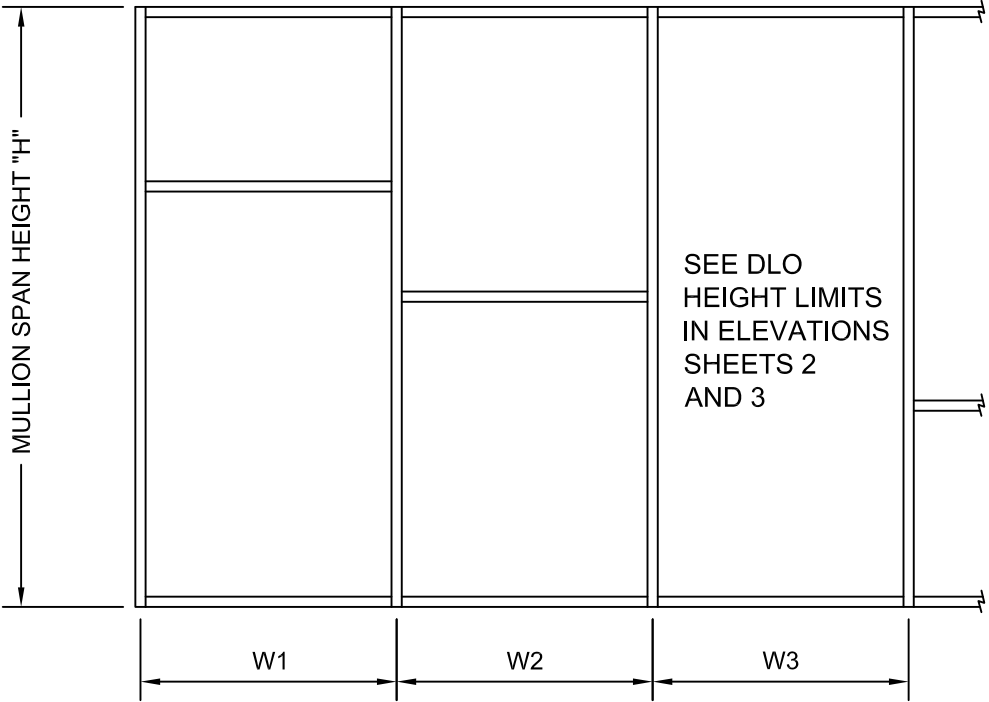
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FPA # FL37876	SECTION 03
DATE 02/03/2021	SHEET 09 OF 16
SCALE NTS	

REV. #	DATE
1	8/17/2023
-	02/03/2021
PRINTS ISSUED FOR	INITIAL RELEASE
2023 FBC UPDATE	

JAMB AND MULLION LOAD CAPACITY		
DIMENSION		JAMB "J1", MULLION "M1", OR MULLION "M2", WITH HEAD RECEPTOR
WIDTH "W" (in.)	MULL HEIGHT "H" (in.)	(+/- psf)
23	72	45.0
29		45.0
35		45.0
41		39.0
46 3/4		30.0
53		18.2
59		11.8
23	84	45.0
29		45.0
35		42.7
41		38.2
46 3/4		30.0
23	94 5/16	45.0
29		43.0
35		37.0
41		32.9
46 3/4	108	30.0
23		37.4
29		30.0
35	120	25.2
23		27.1
29		21.7

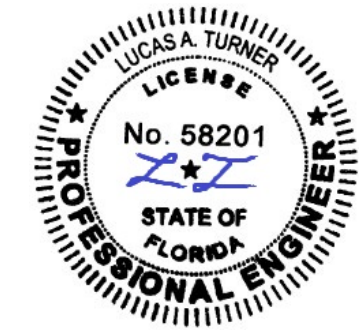
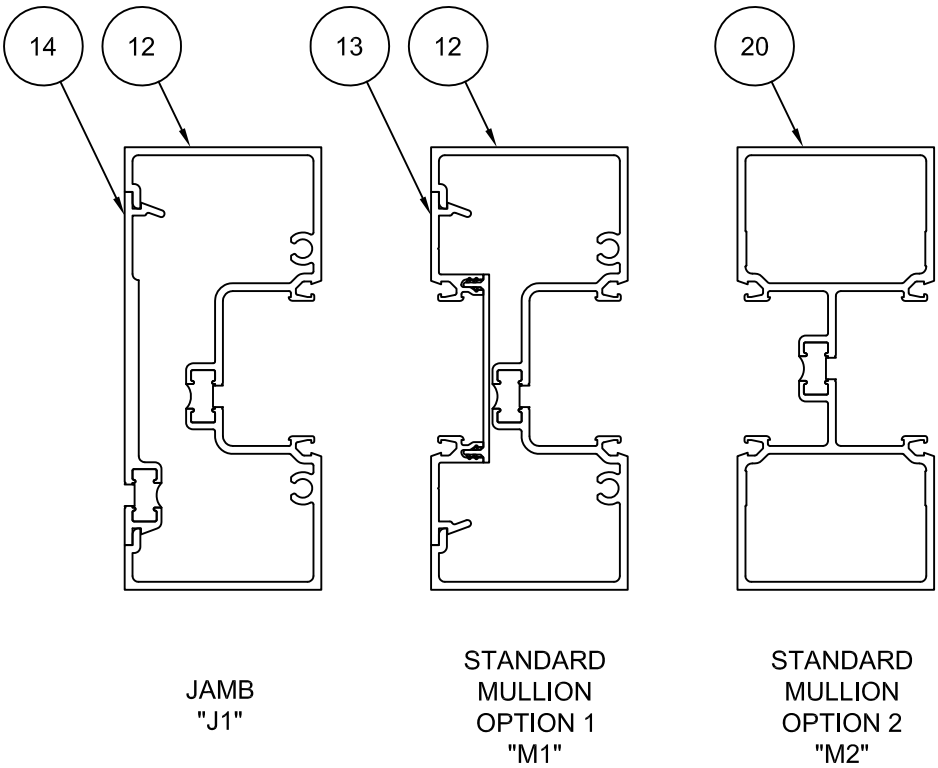
NOTE: THE ALLOWABLE DESIGN PRESSURE OF THE ASSEMBLY SHALL BE THE LEAST OF THE JAMB AND MULLION LOAD CAPACITIES INDICATED ABOVE, THE GLASS LOAD CAPACITY PER SHEET 13, AND THE SILL FILLER CLIP LOAD CAPACITY PER SHEET 13 IF APPLICABLE.

JAMB AND MULLION LOAD CAPACITY		
DIMENSION		JAMB "J1", MULLION "M1", OR MULLION "M2", WITHOUT HEAD RECEPTOR
WIDTH "W" (in.)	MULL HEIGHT "H" (in.)	(+/- psf)
23	72	52.5
29		52.5
35		52.5
41		46.0
47		35.0
53		21.6
59		14.1
23	84	52.5
29		52.5
35		51.2
41		45.8
47		35.0
53	96	21.6
23		52.5
29		50.5
35		43.4
41	108	38.5
47		35.0
23		46.3
29	120	37.2
35		31.2
41		27.1
23	120	33.7
29		26.9
35		22.6



WIDTH "W" = W1 (JAMB)

WIDTH "W" = $\frac{W2 + W3}{2}$ (MULLION)



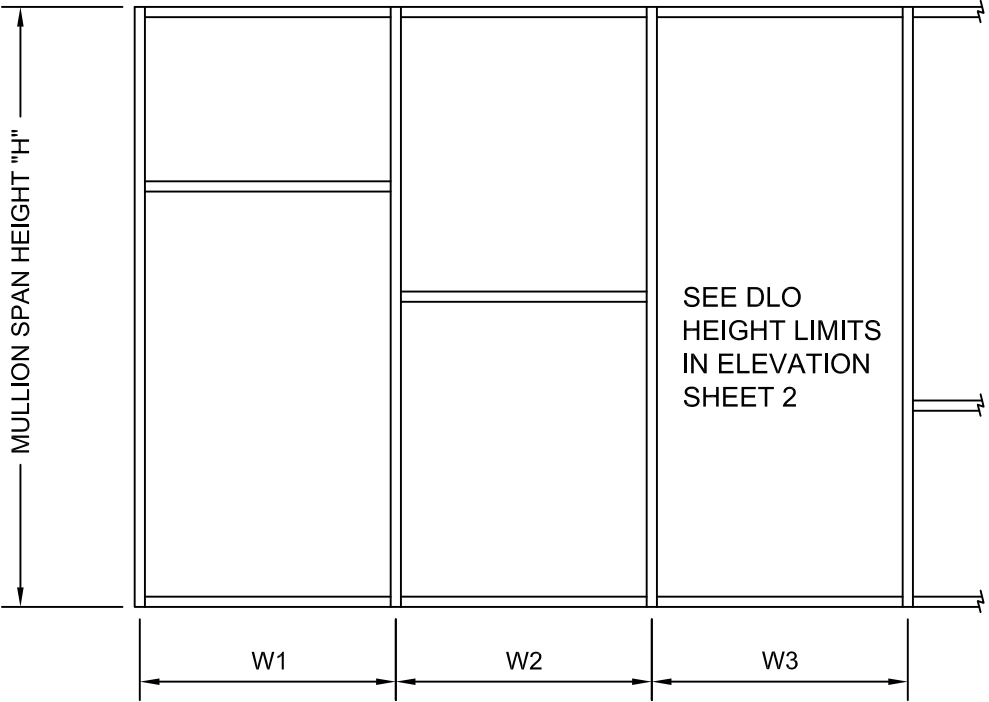
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FPA # FL37876	SECTION 04
DATE 02/03/2021	
SCALE NTS	SHEET 11 OF 16

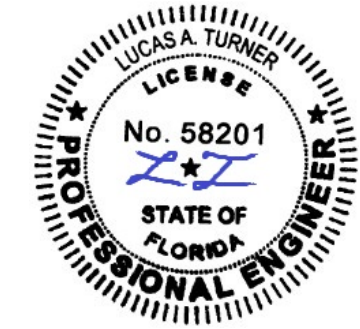
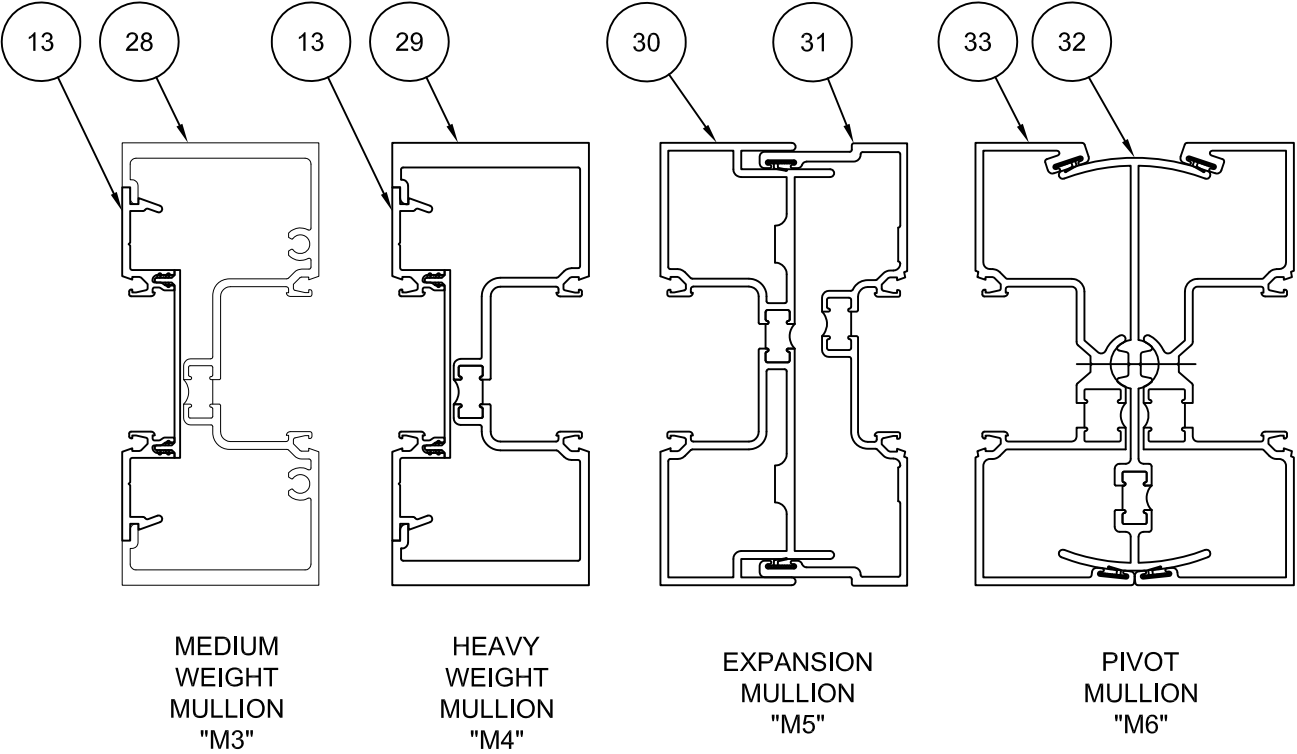
MULLION LOAD CAPACITY					
DIMENSION		MULLION "M3"	MULLION "M4"	MULLION "M5"	MULLION "M6"
WIDTH "W" (in.)	MULL HEIGHT "H" (in.)	(+/- psf)	(+/- psf)	(+/- psf)	(+/- psf)
30	72	45.0	52.5	35.0	30.0
36		45.0	52.5	35.0	30.0
42		42.5	49.6	35.0	30.0
48		32.6	38.0	35.0	30.0
50		30.0	35.0	35.0	30.0
54		22.1	25.7	25.7	22.1
60		14.5	16.9	16.9	14.5
30	84	45.0	52.5	35.0	30.0
36		45.0	52.5	35.0	30.0
42		42.5	49.6	35.0	30.0
48		32.6	38.0	35.0	30.0
50		30.0	35.0	35.0	30.0
54		22.1	25.7	25.7	22.1
60		14.5	16.9	16.9	14.5
30	96	45.0	52.5	35.0	30.0
36		44.3	52.5	35.0	30.0
42		39.5	49.6	35.0	30.0
48		32.6	38.0	35.0	30.0
50		30.0	35.0	35.0	30.0
54		22.1	25.7	25.7	22.1
60		N/A	16.9	16.9	N/A
30	108	44.6	52.5	35.0	30.0
36		38.4	49.8	35.0	30.0
42		34.1	44.1	35.0	30.0
48		30.9	38.0	35.0	30.0
50		30.0	35.0	35.0	30.0
54		N/A	25.7	25.7	N/A
60					
30	120	34.2	51.2	35.0	30.0
36		28.9	43.9	35.0	28.9
42		25.1	38.8	35.0	25.1
48		N/A	35.0	35.0	N/A
50		N/A	35.0	35.0	N/A

NOTE: THE ALLOWABLE DESIGN PRESSURE OF THE ASSEMBLY SHALL BE THE LEAST OF THE MULLION LOAD CAPACITY INDICATED ABOVE, THE GLASS LOAD CAPACITY PER SHEET 13, AND THE SILL FILLER CLIP LOAD CAPACITY PER SHEET 13 IF APPLICABLE.



WIDTH "W" = W1 (JAMB)

WIDTH "W" = $\frac{W2 + W3}{2}$ (MULLION)



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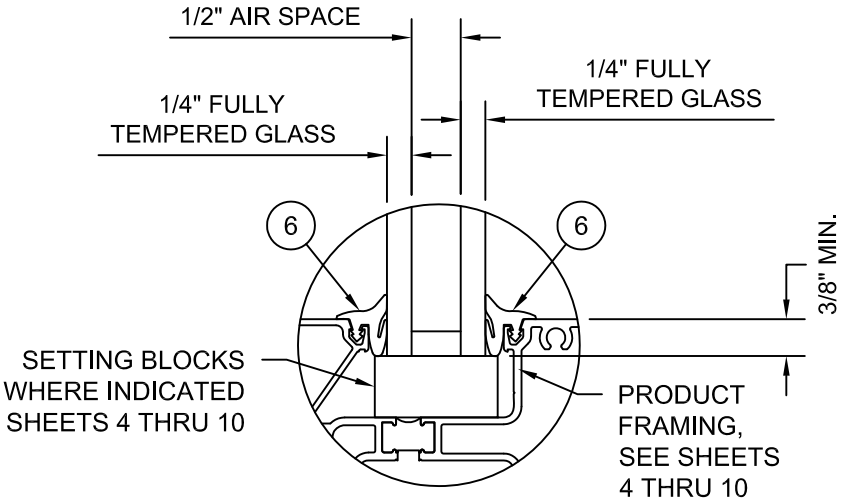
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DRAWING NO. 451T-Center	PRODUCT TRIFAB VG 451T
FPA # FL37876	SECTION 04
DATE 02/03/2021	
SCALE NTS	

SILL FILLER CLIP LOAD CAPACITY		
DIMENSION		TALL SILL
WIDTH "W" (in.)	MULL HEIGHT "H" (in.)	(+/- psf)
24	72	52.5
30		52.5
36		52.5
42		48.3
48		44.9
54		42.6
60		35.0
24	77 3/4	52.5
30		52.5
36		48.1
42		43.4
48		40.1
54		37.7
60		35.0
24	84	52.5
30		48.6
36		41.4
42		36.5
48		33.0
54		30.4
24	96	39.6
30		32.1
36		27.3
42		23.9
48	108	21.4
24		27.6
30		22.4
36		18.9
42	120	16.5
24		20.1
30		16.2
36		13.7

NOTE: IF SILL OPTIONS SHOWN IN DETAILS 3/9, 1/10, OR 2/10 ARE UTILIZED, THE ALLOWABLE DESIGN PRESSURE OF THE ASSEMBLY SHALL BE THE LEAST OF THE SILL FILLER CLIP LOAD CAPACITY INDICATED ABOVE, THE GLASS LOAD CAPACITY PER THIS SHEET, AND THE APPLICABLE MULLION LOAD CAPACITY PER THE TABLES ON SHEETS 11 AND 12.

GLASS LOAD CAPACITY				
DIMENSION		ANNEALED (1/4" ANN. + 1/2" GAP + 1/4" ANN.)	HEAT STRENGTHENED (1/4" H.S. + 1/2" GAP + 1/4" H.S.)	FULLY TEMPERED (1/4" TEMP. + 1/2" GAP + 1/4" TEMP.)
MAX DLO WIDTH (in.)	MAX DLO HEIGHT (in.)	(+/- psf)	(+/- psf)	(+/- psf)
58	68	52.5	52.5	52.5
58	80	52.5	52.5	52.5
58	92	52.5	52.5	52.5
34	104	52.5	52.5	52.5
40		49.9	52.5	52.5
46		46.7	52.5	52.5
48		46.7	52.5	52.5
52	116	46.7	52.5	52.5
34		52.5	52.5	52.5
40		45.5	52.5	52.5
46		40.9	52.5	52.5
48		40.8	52.5	52.5



TYP. GLAZING DETAIL

NOTES:

- 1) ANNEALED OR HEAT-STRENGTHENED GLASS MAY BE USED IF THOSE GLAZING TYPES ARE ACCEPTABLE PER PROJECT SPECIFICATIONS AND APPLICABLE BUILDING CODES. GLASS MUST BE TEMPERED FOR HAZARDOUS LOCATIONS OR WHERE SAFETY GLAZING IS REQUIRED.
- 2) THE ALLOWABLE DESIGN PRESSURE OF THE ASSEMBLY SHALL BE THE LEAST OF THE GLASS LOAD CAPACITY INDICATED ABOVE, THE APPLICABLE MULLION LOAD CAPACITY PER THE TABLES ON SHEETS 11 AND 12, AND THE SILL FILLER CLIP LOAD CAPACITY ON THIS SHEET IF APPLICABLE.



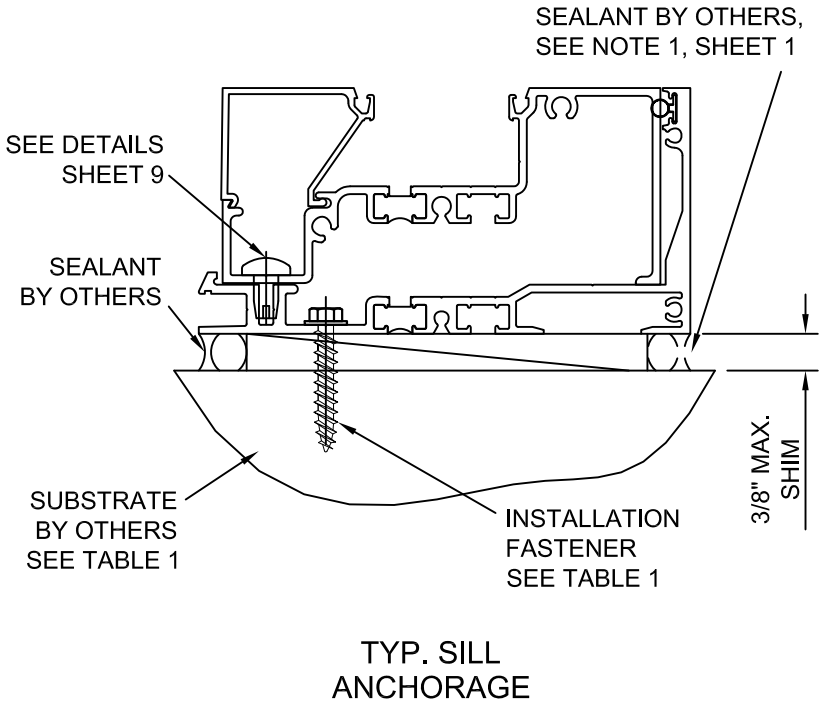
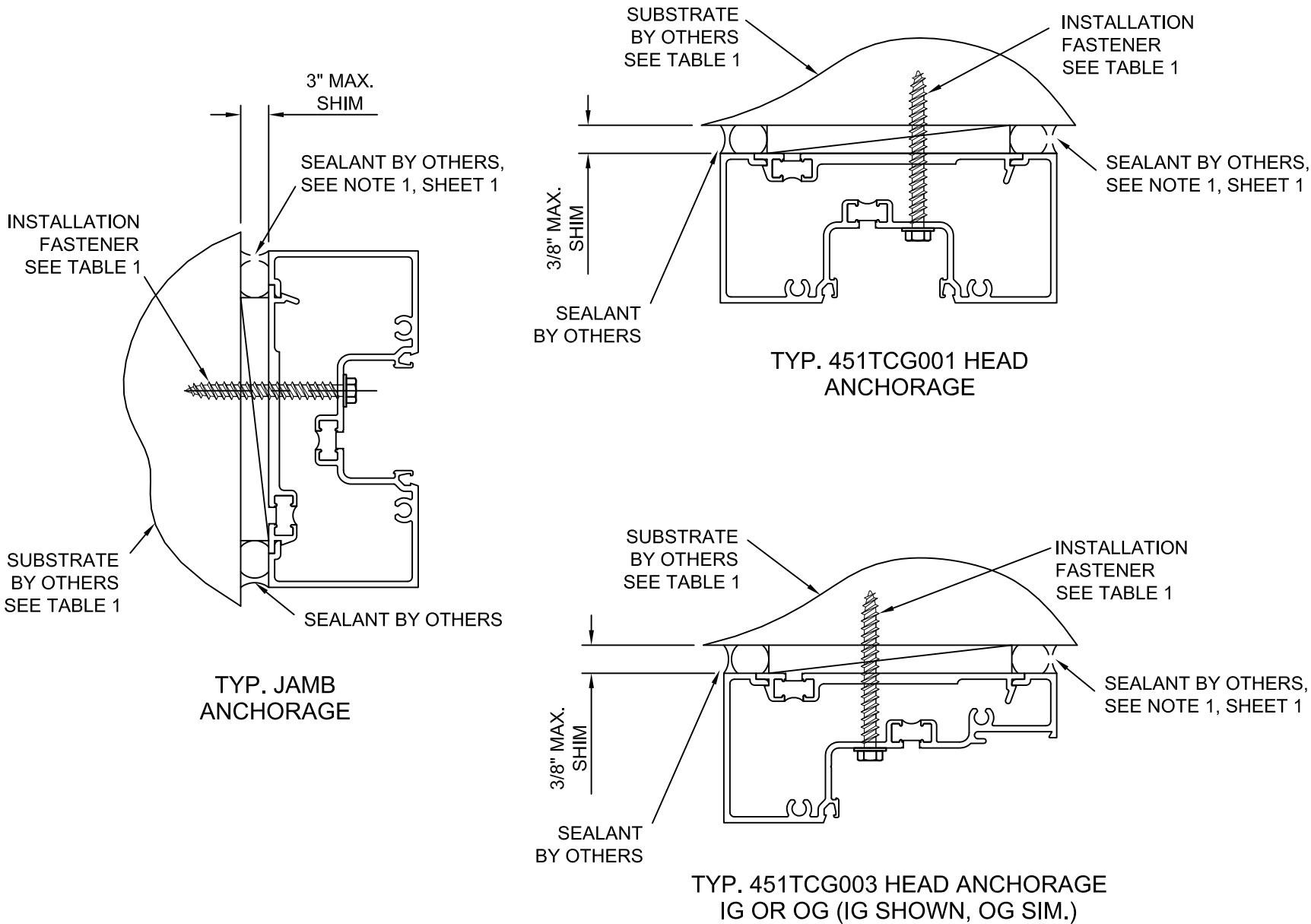
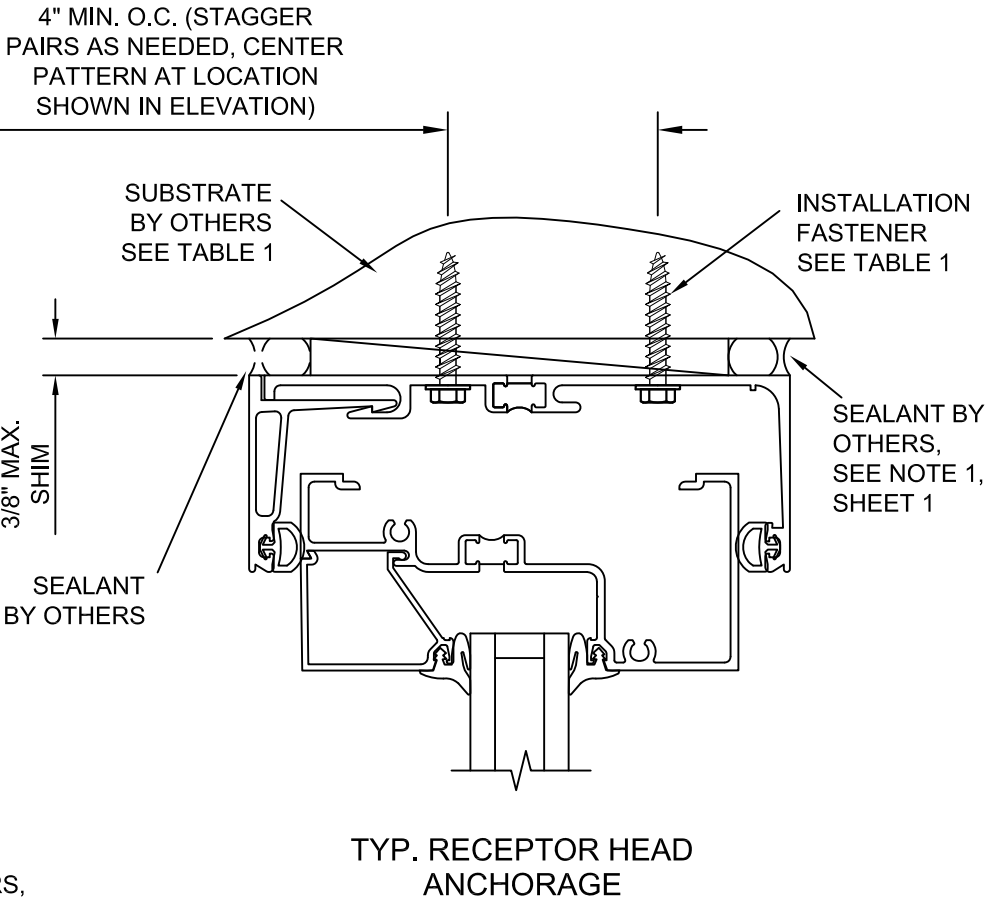
8/17/2023
LUCAS A. TURNER
FL P.E. #58201

TURNER ENGINEERING &
CONSULTING, INC.
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

DRAWING NO. 451T-Center	PRODUCT TRIFAB VG 451T
FPA # FL37876	SECTIONS 04/05
DATE 02/03/2021	
SCALE NTS	

TABLE 1. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (3050 PSI MIN.)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/4"	2 1/2"
B	CMU (ASTM C-90) (JAMBS ONLY)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/4"	2 1/2"
C	SOLID UNCRACKED CONCRETE (3350 PSI MIN.)	1/4" DEWALT CRETE-FLEX SS4 MASONRY SCREW	1 3/4"	1"
D	CMU (ASTM C-90) (JAMBS ONLY)	1/4" DEWALT CRETE-FLEX SS4 MASONRY SCREW	1 1/4"	2 1/2"
E	SOLID UNCRACKED CONCRETE (2000 PSI MIN.)	1/4" ITW COATED CARBON STEEL TAPCON	1 1/2"	1 1/2"
F	CMU (DENSITY > 117 PCF) (JAMBS ONLY)	1/4" ITW COATED CARBON STEEL TAPCON	1"	2"
G	CONCRETE (3000 PSI MIN)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
H	CMU (ASTM C-90)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
I	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	#14 GRADE 5 WOOD SCREW	1 1/2"	1"
J	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.) OR 1/8" MIN. ALUMINUM (6063-T5 MIN.) OR 1/8" MIN. A36 STEEL	#1/4-14 ITW TEKS SELF-DRILLING SCREW	FULL + 3 THREADS	1/2"



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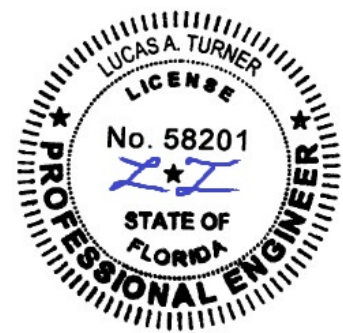
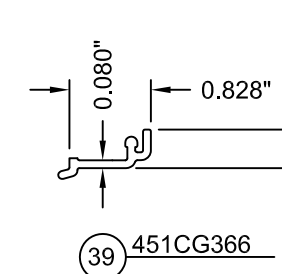
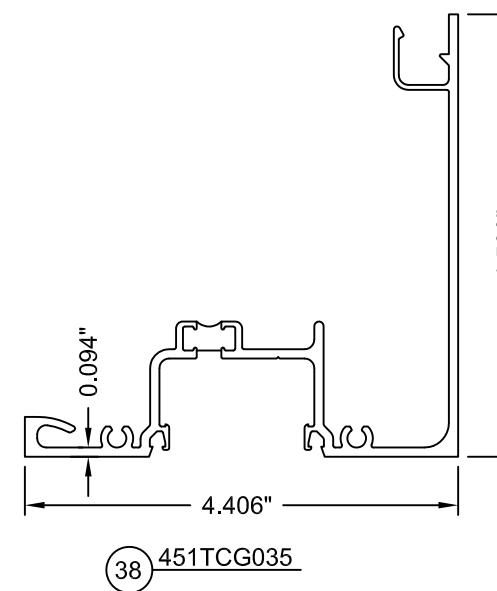
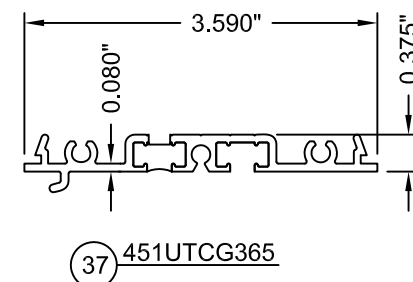
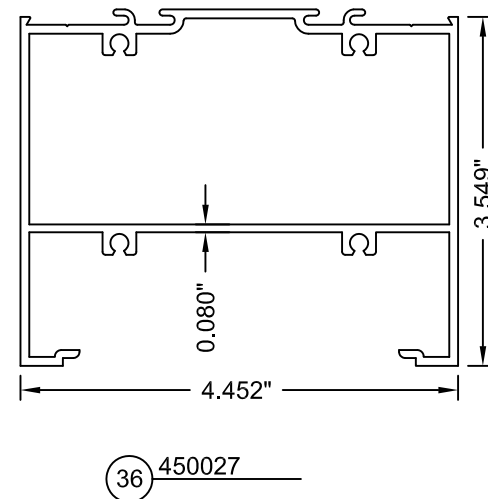
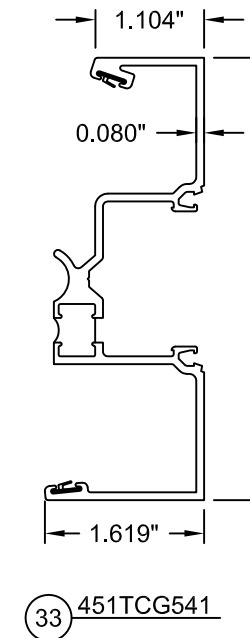
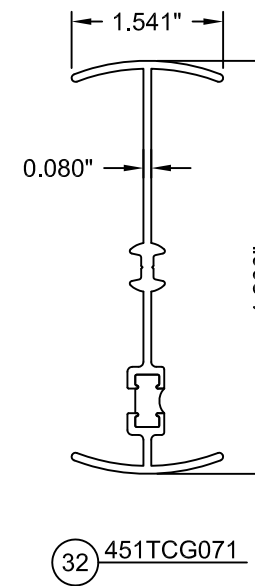
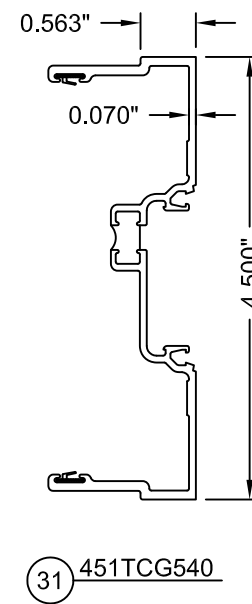
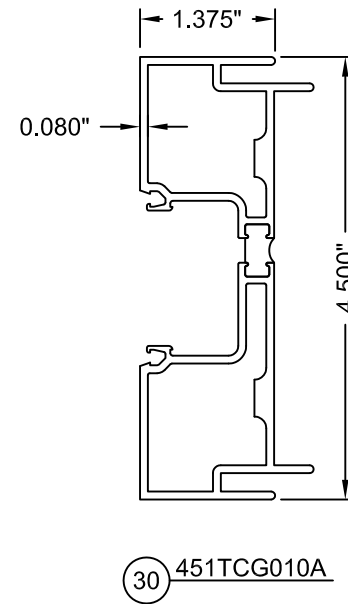
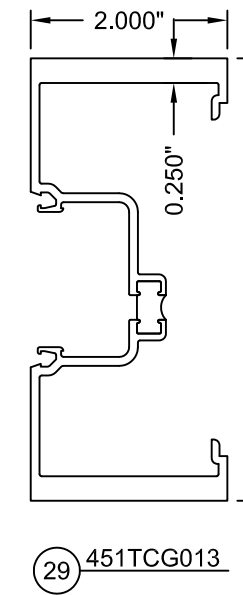
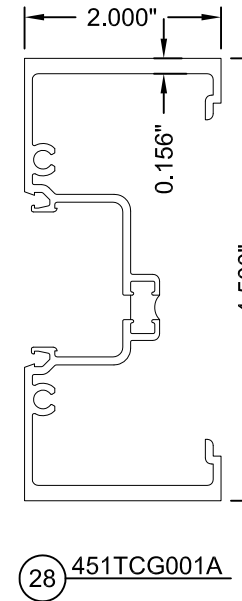
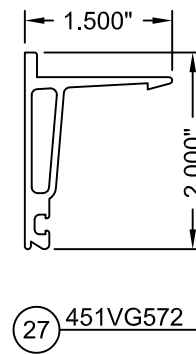
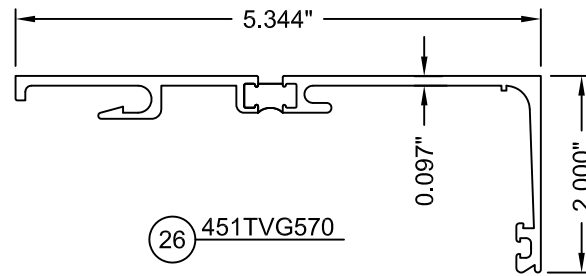
555 GUTHRIDGE COURT
NORCROSS, GEORGIA 30092
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The seal is circular with a dashed outer border. Inside the border, the text "LUCAS A. TURNER" is at the top, "LICENSE" is below it, "No. 58201" is in the center, and "STATE OF FLORIDA" is at the bottom. A stylized blue signature "L A T" is written over the license number. The words "PROFESSIONAL ENGINEER" are written along the right side of the seal, flanked by two stars.

8/17/2023
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DRAWING NO. 451T-Center	PRODUCT TRIFAB VG 451
FPA # FL37876	SECTION 06
DATE 02/03/2021	
SCALE NTS	SHEET 14 OF 1



8/17/2023
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DRAWING NO. 451T-Center	PRODUCT TRIFAB VG 451T
FPA # FL37876	SECTION 08
DATE 02/03/2021	
SCALE NTS	SHEET 16 OF 16