

KAWNEER IR521 NT/T/UT PRE-GLAZED OR FIELD-GLAZED STOREFRONT

GENERAL NOTES

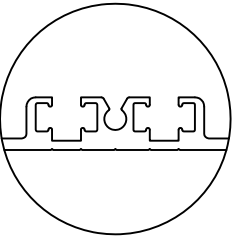
1. THIS STOREFRONT SYSTEM HAS BEEN TESTED TO AAMA 501 AND TAS 201/202/203, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
2. THE INSTALLED SYSTEM SHALL BE FABRICATED, GLAZED, AND ANCHORED IN ACCORDANCE WITH THIS DRAWING AND 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. 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 IMPACT RESISTANT (SEE APPROVED GLAZING TYPES SHEET 4 OF THIS DRAWING FOR GLAZING TYPES THAT ARE APPROVED FOR MISSILE LEVEL A SMALL MISSILE, AND MISSILE LEVEL D AND MISSILE LEVEL E LARGE MISSILE PERFORMANCE), AND DOES NOT REQUIRE THE USE OF APPROVED SHUTTERS IN WINDBORNE DEBRIS AREAS CONSISTENT WITH THE APPLICABLE IMPACT RATING.
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 AND TESTED PRESSURES. ALTERNATE COMPARATIVE OR RATIONAL ANALYSIS CALCULATIONS COMPLIANT WITH FBC AS DEEMED APPROPRIATE ON A PROJECT BASIS BY THE ENGINEER OF RECORD ARE 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. ENSURE 1-1/2" MIN. CENTER-TO-SPACING BETWEEN ANY TWO INSTALLATION FASTENERS.
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. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1 THIS SHEET. 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 COPED & BUTTED TO THE VERTICAL FRAME MEMBER. THE VERTICAL MEMBERS ARE FASTENED TO THE HORIZONTAL MEMBERS WITH ANCHORS AS INDICATED IN DETAILS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH KAWNEER INSTALLATION INSTRUCTIONS.

- ABBREVIATIONS:
- DG: DRY GLAZED
- WG: WET GLAZED
- IG: INSIDE GLAZED
- OG: OUTSIDE GLAZED
- PG: PRE-GLAZED
- FG: FIELD-GLAZED
- NT: NON-THERMAL / NO THERMAL BREAKS
- T: THERMAL / ONE THERMAL BREAK
- UT: ULTRA THERMAL / TWO THERMAL BREAKS

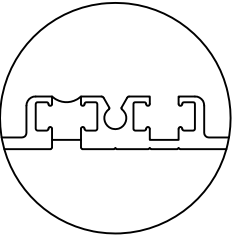
NOTE FOR USE OF THIS APPROVAL IN DETERMINING THE STOREFRONT SYSTEM LOAD CAPACITY: DETERMINE COMPONENT LOAD CAPACITIES USING APPLICABLE TABLES FOR ANCHORAGE, GLAZING, MULLIONS, JAMBS, HEADS, SILLS, INTERMEDIATE HORIZONTALS, AND DOOR ASSEMBLIES AS APPLICABLE FOR EACH PROJECT, AND THE LEAST LOAD CAPACITY SHALL APPLY TO THE ENTIRE SYSTEM.

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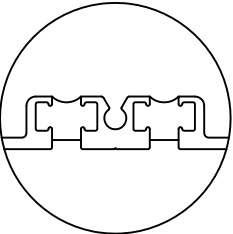
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'NT' NON-THERMAL FRAME
OPTION HAS NO THERMAL
BREAKS

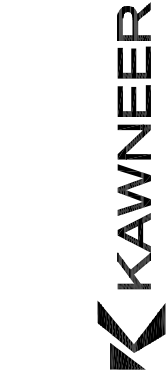


'T' THERMAL FRAME OPTION
HAS ONE THERMAL POCKET
POUR/DEBRIDGE URETHANE

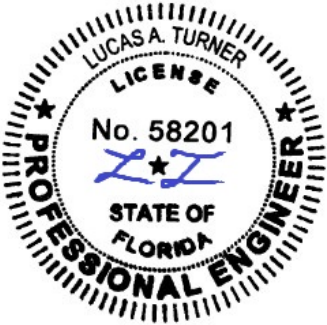


'UT' ULTRA THERMAL FRAME
OPTION HAS BOTH THERMAL
POCKETS POUR/DEBRIDGE
URETHANE

Lucas Turner
2026.06.16 11:27:18
-05'00'



555 GUTHRIDGE COURT
NORCROSS, GEORGIA 30092
PH. 770-449-5555
WWW.KAWNEER.COM



6/16/2026
LUCAS A. TURNER
FL P.E. #58201

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

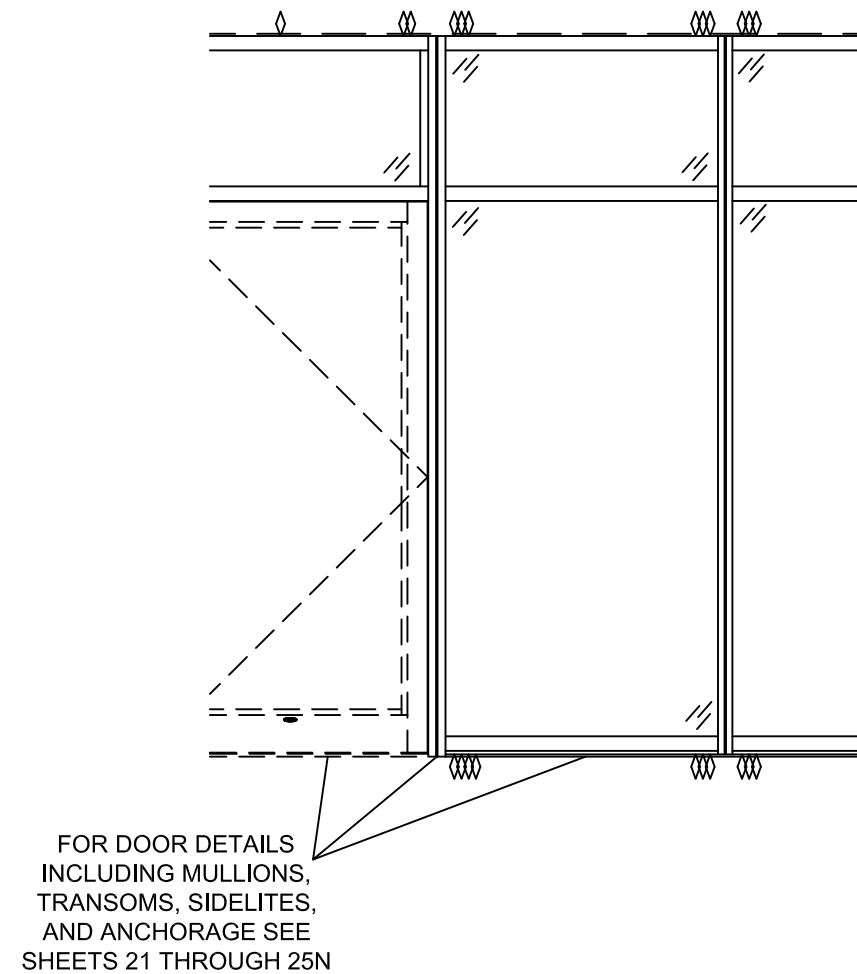
DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 1

6/8/2026

REV. #

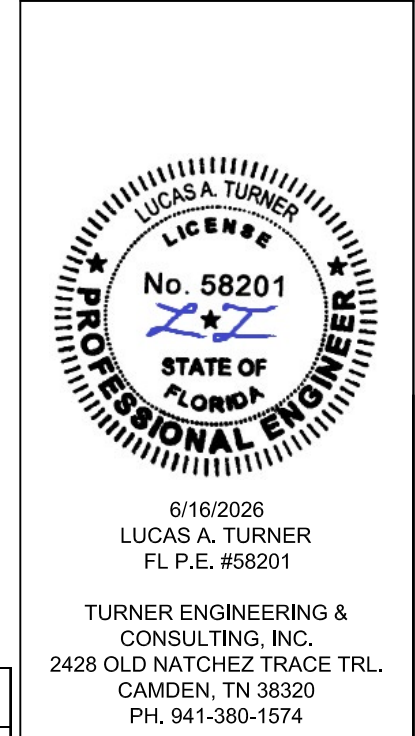
INITIAL RELEASE
PRINTS ISSUED FOR

INITIAL RELEASE	-	6/8/2026	
PRINTS ISSUED FOR	REV. #	DATE	



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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	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	#14 GRADE 5 WOOD SCREW	2"	1"
C	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"

DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 2

Head/Sill Anchor Cluster Load Capacity [PSF, ASD, Ext. (+) and Int. (-)] for 1/4" Max. Shim Gap Clusters Located at Both Ends of Each Head/Sill Segment, and at Midspans of Head/Sill Segment If Indicated	Head/Sill Anchor Cluster Load Capacity [PSF, ASD, Ext. (+) and Int. (-)] for 3/8" Max. Shim Gap Clusters Located at Both Ends of Each Head/Sill Segment, and at Midspans of Head/Sill Segment If Indicated
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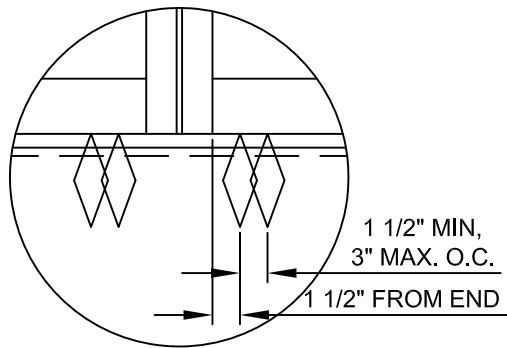
Tributary Width	Mullion Height	Midspan Cluster Qty.	Cluster Qty at Ends of Head/Sill Segments			
			2	3	4	5
30	96	0	98	147	196	245
36		0	82	123	163	204
36.25		0	81	122	162	203
36.5		0	81	121	161	201
36.75		0	80	120	160	200
38.5		0	76	115	153	191
42		0	70	105	140	175
48		0	61	92	123	153
54		0	54	82	109	136
60		2	-	98	123	147
66		2	-	89	111	134
72		2	-	82	102	123
74.5		2	-	79	99	118
30	102	0	92	138	184	231
36		0	77	115	154	192
36.25		0	76	114	153	191
36.5		0	76	114	152	190
36.75		0	75	113	151	188
38.5		0	72	108	144	180
42		0	66	99	132	165
48		0	58	86	115	144
54		0	51	77	102	128
60		2	-	92	115	138
66		2	-	84	105	126
72		2	-	77	96	115
74.5		2	-	74	93	111
30	108	0	87	131	174	218
36		0	73	109	145	181
36.25		0	72	108	144	180
36.5		0	72	107	143	179
36.75		0	71	107	142	178
38.5		0	68	102	136	170
42		0	62	93	124	156
48		0	54	82	109	136
54		0	48	73	97	121
60		2	-	87	109	131
66		2	-	79	99	119
72		2	-	73	91	109
74.5		2	-	70	88	105

Tributary Width	Mullion Height	Midspan Cluster Qty.	Cluster Qty at Ends of Head/Sill Segments			
			2	3	4	5
30	114	0	83	124	165	206
36		0	69	103	138	172
36.75		0	67	101	135	168
38.5		0	64	96	129	161
42		0	59	88	118	147
48		0	52	77	103	129
54		0	46	69	92	115
60		3	-	93	113	134
66		3	-	84	103	122
72		3	-	77	95	112
74.5		3	-	75	91	108
30	120	0	78	118	157	196
36		0	65	98	131	163
36.75		0	64	96	128	160
38.5		0	61	92	122	153
42		0	56	84	112	140
48		0	49	74	98	123
54		0	44	65	87	109
60		3	-	88	108	127
66		3	-	80	98	116
72		3	-	74	90	106
74.5		3	-	71	87	103
30	126	0	75	112	149	187
36		0	62	93	124	156
36.5		0	61	92	123	153
36.75		0	61	91	122	152
38.5		0	58	87	116	145
42		0	53	80	107	133
30	132	0	71	107	143	178
36		0	59	89	119	148
36.5		0	59	88	117	146
36.75		0	58	87	116	145
38.5		0	56	83	111	139
30	138	0	68	102	136	170
36		0	57	85	114	142
36.5		0	56	84	112	140
36.75		0	56	83	111	139
38.5		0	53	80	106	133

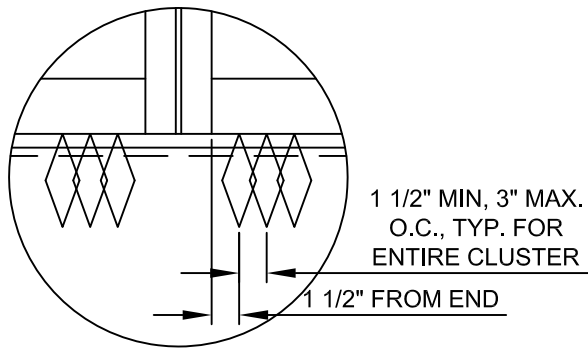
Head/Sill Anchor Cluster Load Capacity [PSF, ASD, Ext. (+) and Int. (-)] for 3/8" Max. Shim Gap
Clusters Located at Both Ends of Each Head/Sill Segment, and at Midspans of Head/Sill Segment If Indicated

Tributary Width	Mullion Height	Midspan Cluster Qty.	Cluster Qty at Ends of Head/Sill Segments				
			2	3	4	5	6
30	96	0	71	107	142	178	214
36		0	59	89	119	148	178
36.25		0	59	88	118	147	177
36.5		0	59	88	117	146	176
36.75		0	58	87	116	145	174
38.5		0	55	83	111	139	166
42		0	51	76	102	127	153
48		0	45	67	89	111	134
54		0	40	59	79	99	119
60		2	-	71	89	107	125
66		2	-	65	81	97	113
72		2	-	59	74	89	104
74.5		2	-	57	72	86	100
30		102	0	67	101	134	168
36	0		56	84	112	140	168
36.25	0		55	83	111	139	166
36.5	0		55	83	110	138	165
36.75	0		55	82	109	137	164
38.5	0		52	78	104	131	157
42	0		48	72	96	120	144
48	0		42	63	84	105	126
54	0		37	56	74	93	112
60	2		-	67	84	101	117
66	2		-	61	76	91	107
72	2		-	56	70	84	98
74.5	2		-	54	67	81	94
30	108		0	63	95	127	158
36		0	53	79	105	132	158
36.25		0	52	79	105	131	157
36.5		0	52	78	104	130	156
36.75		0	52	77	103	129	155
38.5		0	49	74	99	123	148
42		0	45	68	90	113	136
48		0	40	59	79	99	119
54		0	35	53	70	88	105
60		3	-	71	87	103	119
66		3	-	65	79	93	108
72		3	-	59	73	86	99
74.5		3	-	57	70	83	96

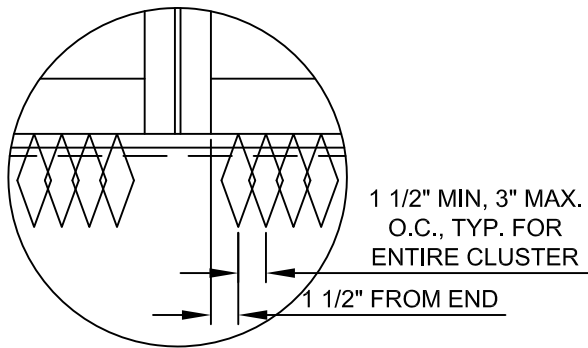
Tributary Width	Mullion Height	Midspan Cluster Qty.	Cluster Qty at Ends of Head/Sill Segments				
			2	3	4	5	6
30	114	0	60	90	120	150	180
36		0	50	75	100	125	150
36.75		0	49	73	98	122	147
38.5		0	47	70	93	117	140
42		0	43	64	86	107	128
48		0	37	56	75	94	112
54		0	33	50	67	83	100
60		3	-	67	82	97	112
66		3	-	61	75	89	102
72		3	-	56	69	81	94
74.5		3	-	54	66	78	91
30	120	0	57	85	114	142	171
36		0	47	71	95	119	142
36.75		0	46	70	93	116	139
38.5		0	44	67	89	111	133
42		0	41	61	81	102	122
48		0	36	53	71	89	107
54		0	32	47	63	79	95
60		4	-	71	85	100	114
66		4	-	65	78	91	104
72		4	-	59	71	83	95
74.5		4	-	57	69	80	92
30	126	0	54	81	108	136	163
36		0	45	68	90	113	136
36.5		0	45	67	89	111	134
36.75		0	44	66	89	111	133
38.5		0	42	63	85	106	127
42		0	39	58	77	97	116
30	132	0	52	78	104	129	155
36		0	43	65	86	108	129
36.5		0	43	64	85	106	128
36.75		0	42	63	85	106	127
38.5		0	40	61	81	101	121
30	138	0	50	74	99	124	149
36		0	41	62	83	103	124
36.5		0	41	61	81	102	122
36.75		0	40	61	81	101	121
38.5		0	39	58	77	96	116



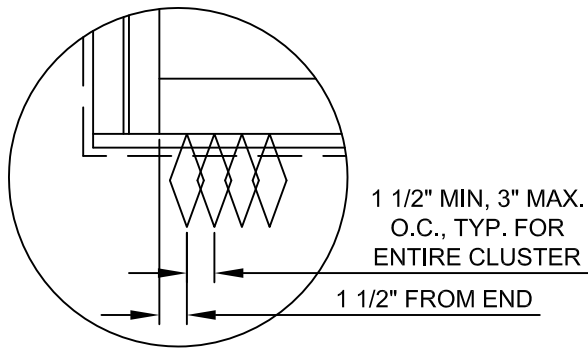
SAMPLE INTERMEDIATE
PATTERN CLUSTER QTY 2



SAMPLE INTERMEDIATE
PATTERN CLUSTER QTY 3



SAMPLE INTERMEDIATE
PATTERN CLUSTER QTY 4

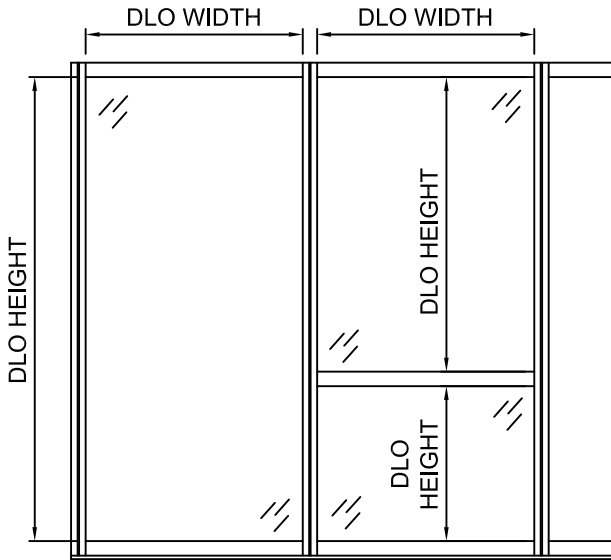


SAMPLE PATTERN @ JAMB
CLUSTER QTY 4

[illegible]

Glass Load Capacity										
Max. DLO Width	Max. DLO Height	Glazing Location	Glazing Type	Glazing Direction	Glazing Schedule, Load Capacity (PSF)					
					G-A	G-B	G-C	G-D	G-E	G-F
69.5	62.25	Field	WG-D	OG or IG	-	-	90	-	-	-
69.5	74.25	Field	WG-D	OG	-	-	90	-	-	-
57.5	91	Field	WG-D or WG-T	OG	-	50	-	-	-	-
32.875	92.5	Field	WG-D	OG or IG	90	-	-	-	-	-
33.5		Field	WG-D	OG	70	-	-	-	70	-
33.5		Field	WG-G	IG	70	-	-	-	70	-
27.5	97	Field	WG-D	OG or IG	60	60	-	-	-	-
33.5		Field	WG-D or WG-G	OG or IG	-	-	90	90	-	-
33.5		Field	WG-T	OG or IG	50	50	-	-	-	-
33.5		Field	WG-D	OG or IG	-	-	-	-	50	-
57.5	103	Field	WG-D or WG-G	IG	-	-	90	-	90	-
57.5	115	Field	WG-D or WG-G	IG	-	-	90	-	-	-
57.5		Field	WG-T	OG	-	-	-	90	-	-
33.5	92.5	Field	DG	OG	-	-	70	-	70	-
33.5		Field	DG	IG	-	-	-	70	70	-
27.5	97	Field	DG	OG or IG	-	-	60	60	-	-
33.5		Field	DG	OG or IG	-	-	-	50	-	-
33.5		Field	DG	OG or IG	-	-	-	-	50	-
57.5	103	Field	DG	OG	-	-	-	70	-	-

Max. DLO Width	Max. DLO Height	Glazing Location	Glazing Type	Glazing Direction	Glazing Schedule					
					G-A	G-B	G-C	G-D	G-E	G-F
32.875	92.5	Pre	WG-D	IG	-	-	70	-	-	-
33.5		Pre	WG-D	OG or IG	-	-	-	70	-	-
33.5		Pre	WG-T	IG	70	70	-	-	-	-
27.5	97	Pre	WG-D	OG or IG	-	-	70	-	-	-
33.5		Pre	WG-D	OG or IG	-	-	70	70	-	-
33.5		Pre	WG-D	OG or IG	55	-	-	-	-	-
57.5	103	Pre	WG-D or WG-G	OG or IG	-	-	55	-	-	-
57.5	109	Pre	WG-D or WG-G	OG or IG	-	-	-	70	-	-
57.5	91	Pre	DG	IG	-	-	70	-	-	-
32.875	92.5	Pre	DG	IG	70	70	-	-	-	-
33.5		Pre	DG	OG	70	70	-	-	-	-
33.5		Pre	DG	IG	-	-	-	70	-	-
27.5	97	Pre	DG	OG or IG	70	70	-	-	-	-
33.5		Pre	DG	OG or IG	-	-	90	-	-	-
57.5	103	Pre	DG	IG	-	-	70	70	70	70
57.5		Pre	DG	OG	70	-	-	-	-	-
57.5	109	Pre	DG	IG	50	-	-	-	-	-
57.5		Pre	DG	OG	-	-	-	70	-	-
57.5		Pre	DG	IG	-	-	-	-	-	60



GLAZING SCHEDULE	
G-A	1-5/16" LAMINATED GLASS (LMI-LEVEL D) 1/4" FT OUTBOARD / 1/2" AIR SPACE / 1/4" HS INBOARD / 0.090 KURARAY TROSIFOL PVB / 1/4" HS INBOARD
G-B	1-5/16" LAMINATED GLASS (LMI-LEVEL D) 1/4" FT OUTBOARD / 1/2" AIR SPACE / 1/4" HS INBOARD / 0.090 EASTMAN SAFLEX PVB / 1/4" HS INBOARD
G-C	1-5/16" LAMINATED GLASS (LMI-LEVEL D) 1/4" FT OUTBOARD / 1/2" AIR SPACE / 1/4" HS INBOARD / 0.090 KURARAY SG / 1/4" HS INBOARD
G-D	1-5/16" LAMINATED GLASS (LMI-LEVEL D) 1/4" FT OUTBOARD / 1/2" AIR SPACE / 1/4" HS INBOARD / 0.075 EASTMAN SAFLEX STORM (VS02) PVB / 1/4" HS INBOARD
G-E	1-5/16" LAMINATED GLASS (LMI-LEVEL E) 1/4" FT OUTBOARD / 1/2" AIR SPACE / 3/16" HS INBOARD / 0.180 KURARAY SG / 3/16" HS INBOARD
G-F	1-5/16" LAMINATED GLASS (SMI) 1/4" FT OUTBOARD / 1/2" AIR SPACE / 1/4" HS INBOARD / 0.060 KURARAY TROSIFOL PVB / 1/4" HS INBOARD

GLAZING TYPE / SILICONE SCHEDULE	
WG-D	WET GLAZED WITH DOW CORNING 995
WG-G	WET GLAZED WITH GENERAL ELECTRIC SILPRUF
WG-T	WET GLAZED WITH TREMCO PROGLAZE SSG
DG	DRY GLAZED

GLAZING NOTES:
1) INFILL SIZE FORMULA DLO + 1 1/8" UNLESS OTHERWISE NOTED.
2) SETTING BLOCKS FBC 2411.3.3.1 COMPLIANT

GLAZING DETAIL MATERIALS:		
A		DOW CORNING 983/995 SILICONE, TREMCO PROGLAZE SSG SILICONE OR GE SCS2000 SILPRUF SILICONE, SEE DP CHARTS SHEETS 2, 2A, 2B
B	127191	PUSH IN SPACER (72-A FLEXIBLE SANTOPRENE, 81-D RIGID SANTOPRENE)
C	127468	SETTING BLOCK (85-A EPDM)
D	451105	WATER DEFLECTOR (RIGID ABS BLACK)
E	027074	WEDGE GASKET (70-A EPDM)
F	127474	FIXED GASKET (65-A EPDM, 70-OO CELLULAR EPDM)
G	127127	WEDGE GASKET (70-A EPDM)
H	127473	W-BLOCK (70-A EPDM)
I	127038	WEDGE SPACER GASKET (70-A SCR EPDM)
J	027010	SETTING BLOCK (85-A EPDM)
K	127475	FIXED GASKET (65-A EPDM, 70-OO CELLULAR EPDM)
L	127469	SETTING BLOCK (85-A EPDM)
M	127471	SETTING BLOCK (85-A EPDM)
N	127472	SIDE BLOCK (60-A EPDM)
O	128267	#12 X 1" PHTF AB SCREW (300 SS)
P		1/2" VIRACON VTS THERMOPLASTIC SPACER

SEE GLAZING DETAILS NEXT 2 SHEETS



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6/16/2026
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.
IR521-FPA

PRODUCT
IR521-FG-PG

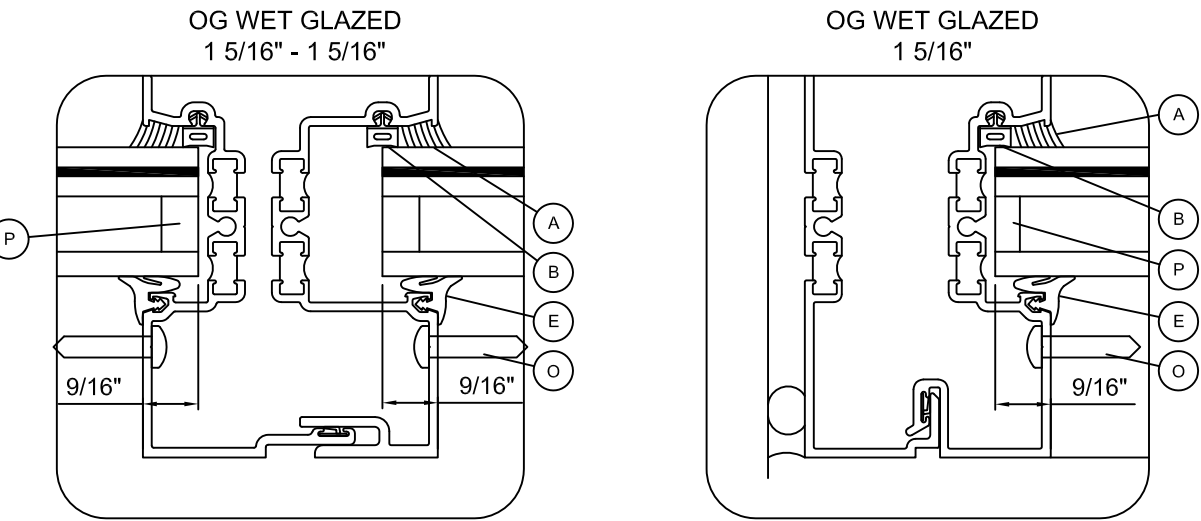
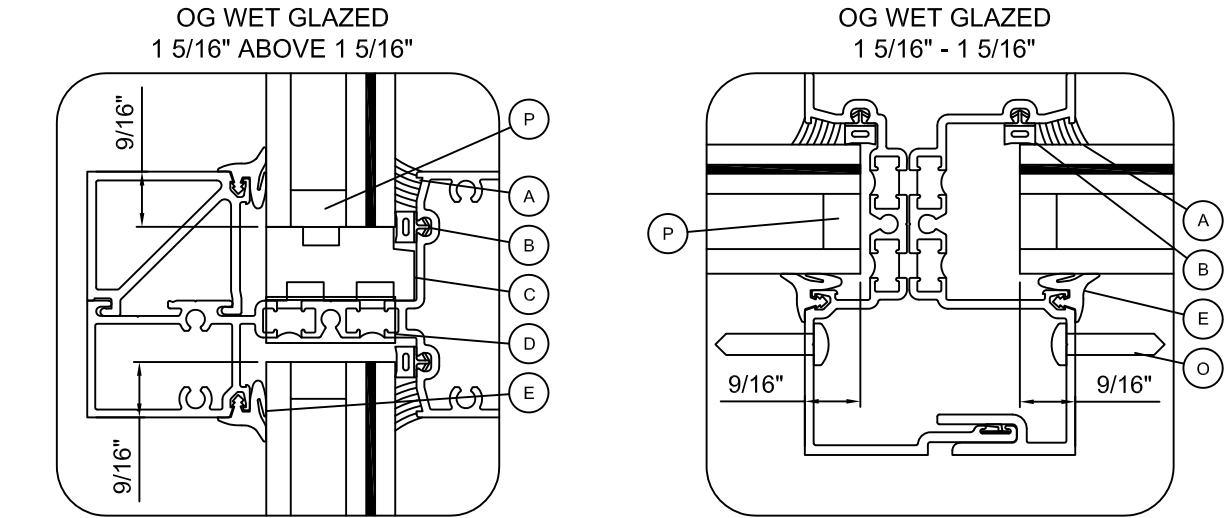
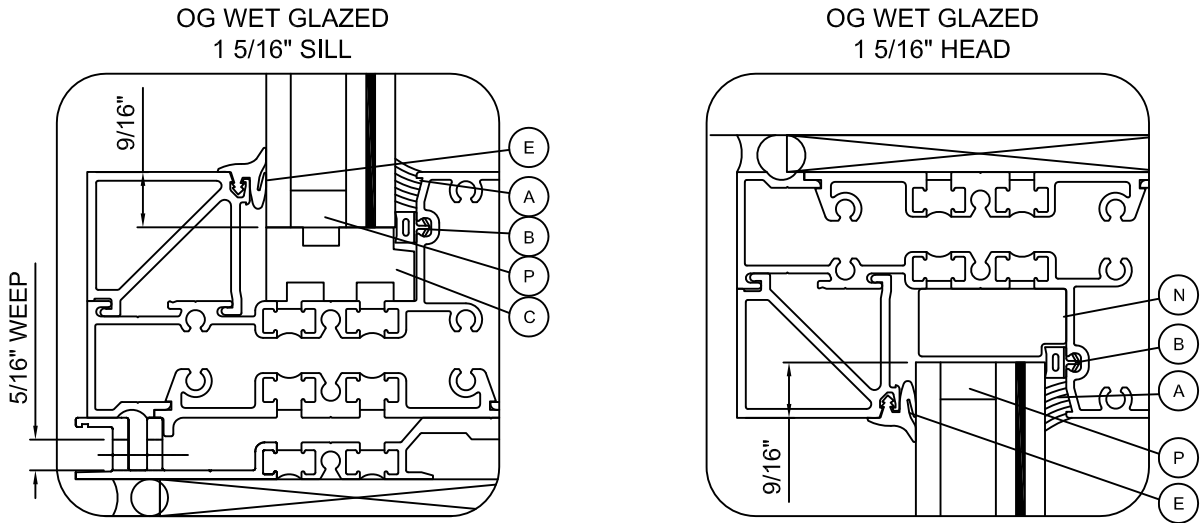
FPA #
FL47012

DATE
6/8/2026

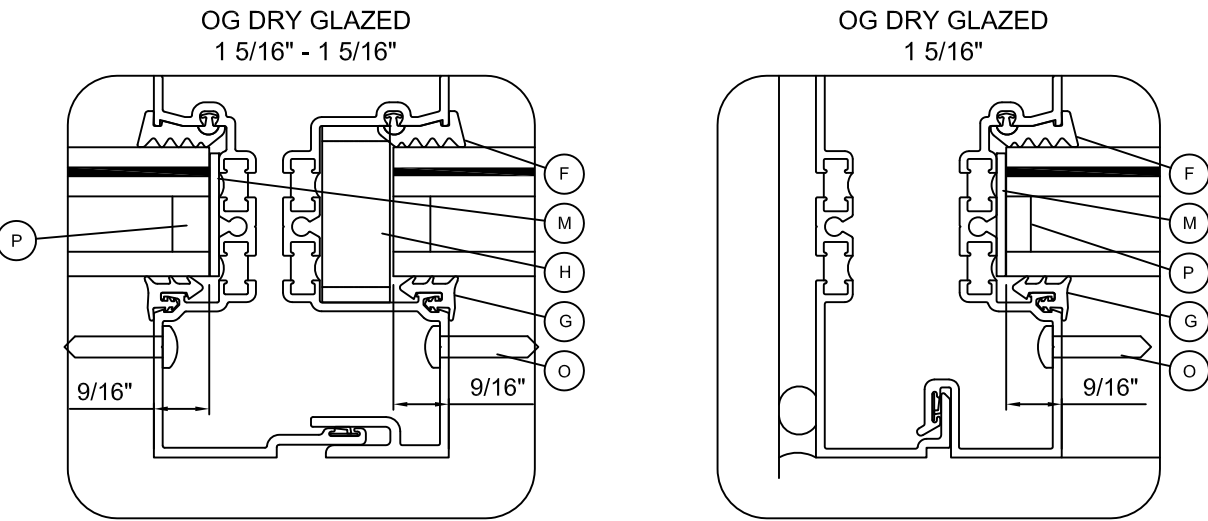
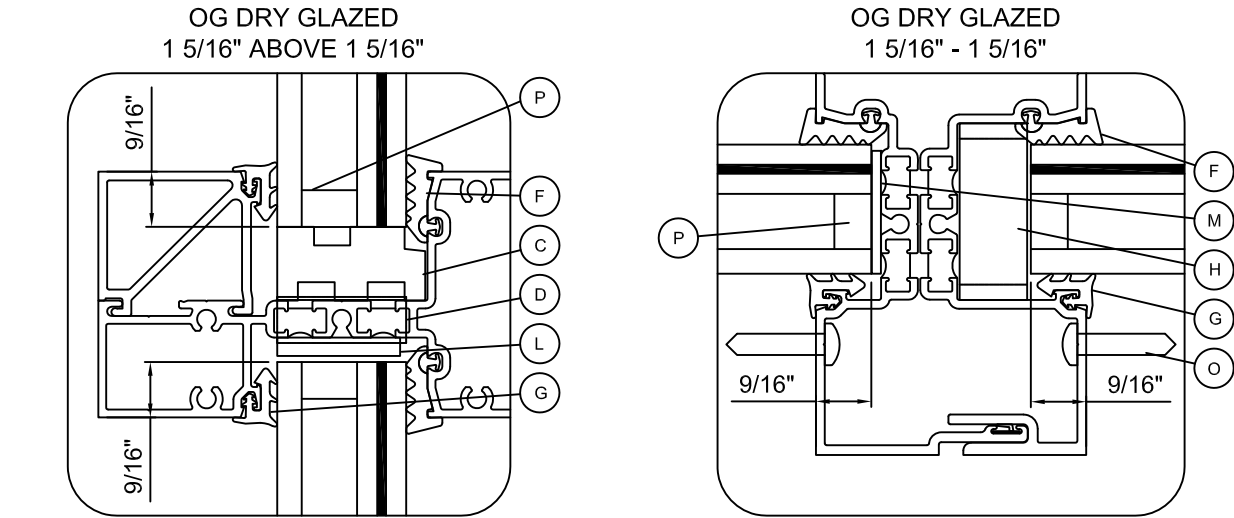
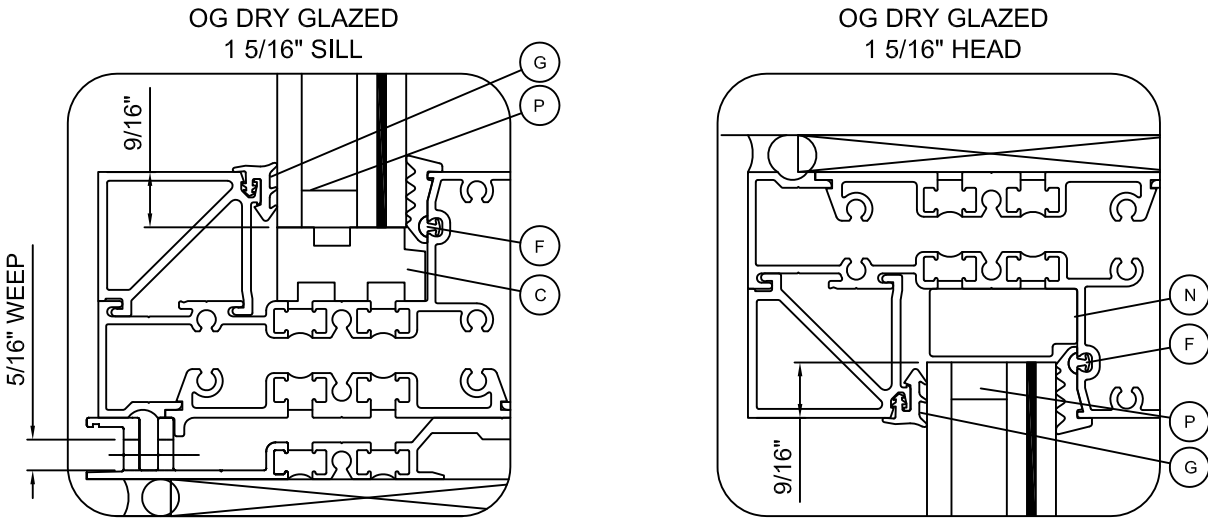
SCALE
NTS

SHEET 4

OG WET GLAZING DETAILS
(UT SHOWN, NT/T SIMILAR)



OG DRY GLAZING DETAILS
(UT SHOWN, NT/T SIMILAR)



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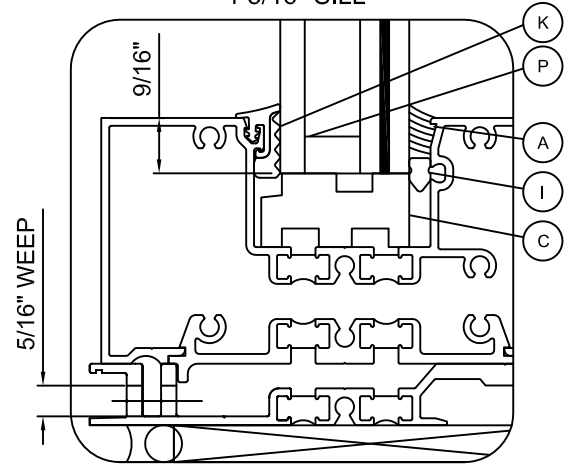
6/16/2026
LUCAS A. TURNER
FL P.E. #58201
TURNER ENGINEERING &
CONSULTING, INC.
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 5

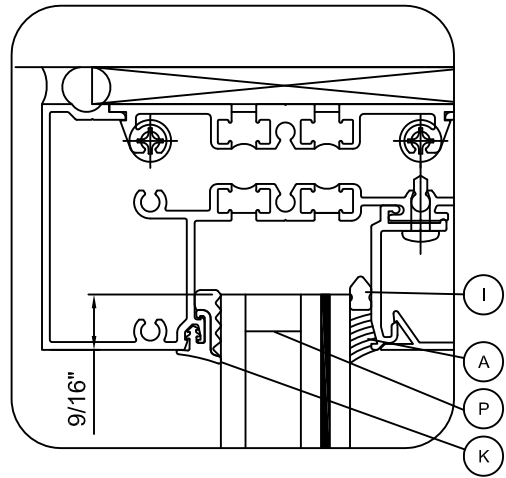
6/8/2026	DATE
-	REV. #
INITIAL RELEASE	PRINTS ISSUED FOR

IG WET GLAZING DETAILS
(UT SHOWN, NT/T SIMILAR)

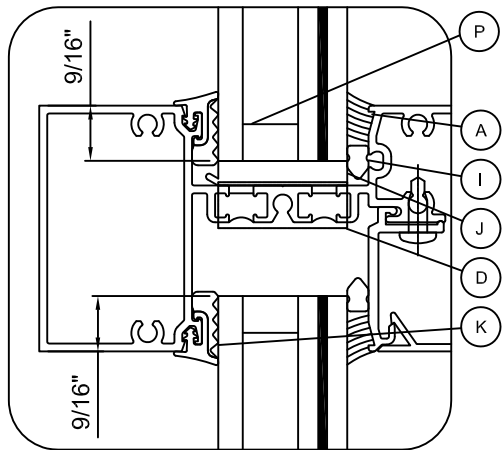
IG WET GLAZED
1 5/16" SILL



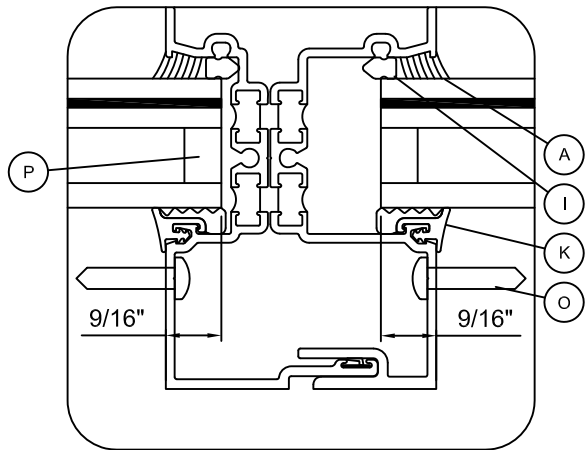
IG WET GLAZED
1 5/16" HEAD



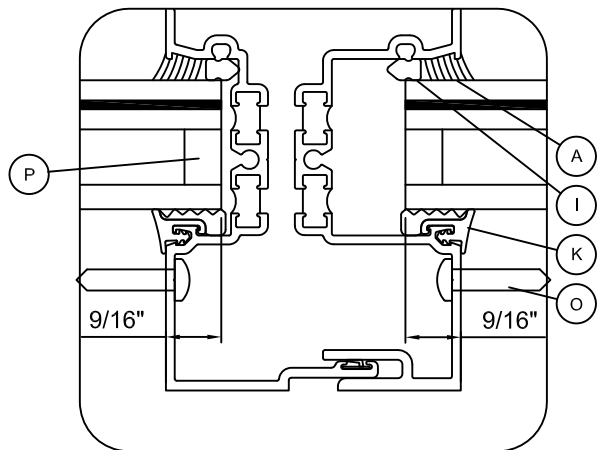
IG WET GLAZED
1 5/16" ABOVE 1 5/16"



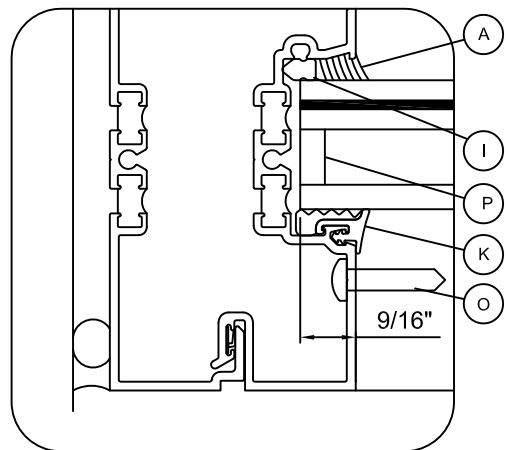
IG WET GLAZED
1 5/16" - 1 5/16"



IG WET GLAZED
1 5/16" - 1 5/16"

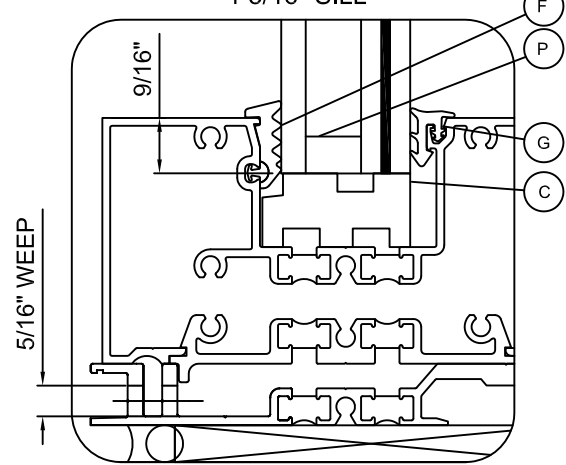


IG WET GLAZED
1 5/16"

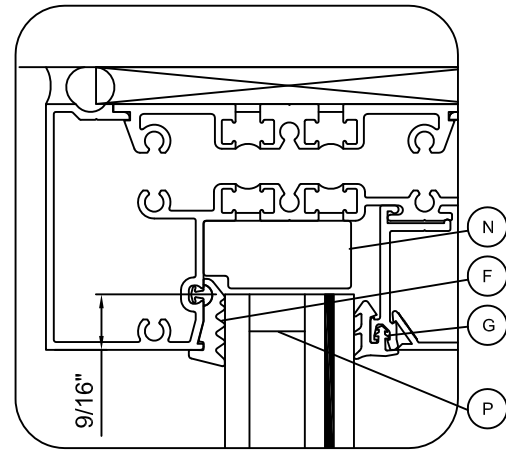


IG DRY GLAZING DETAILS
(UT SHOWN, NT/T SIMILAR)

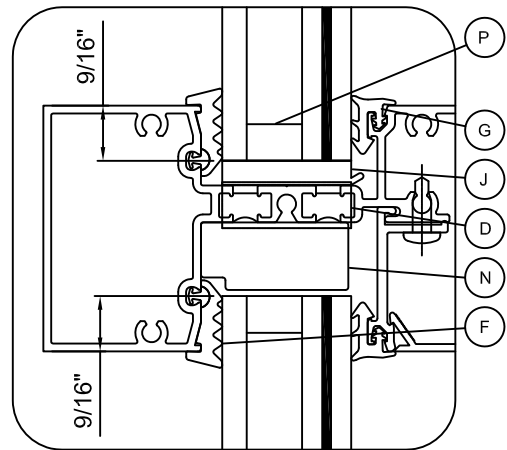
IG DRY GLAZED
1 5/16" SILL



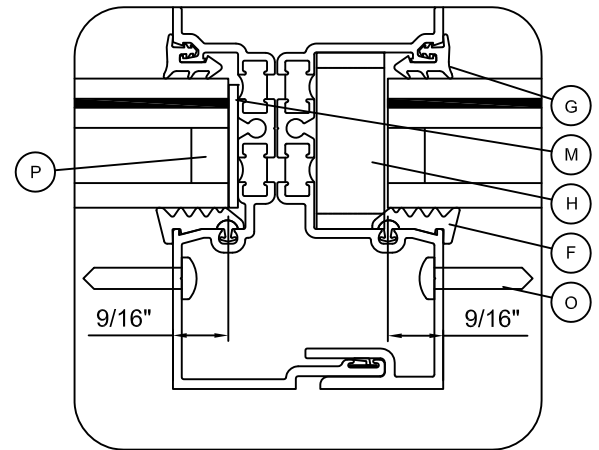
IG DRY GLAZED
1 5/16" HEAD



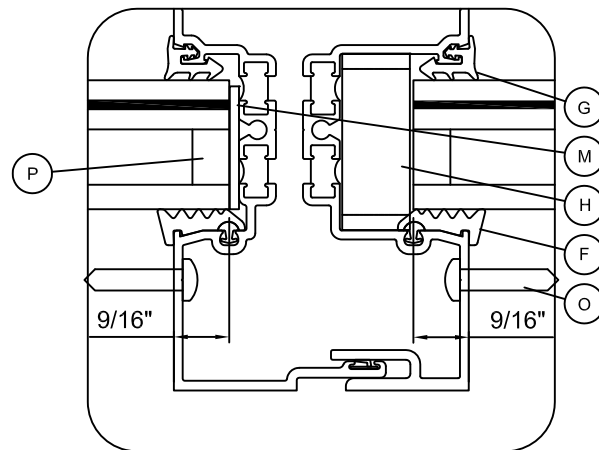
IG DRY GLAZED
1 5/16" ABOVE 1 5/16"



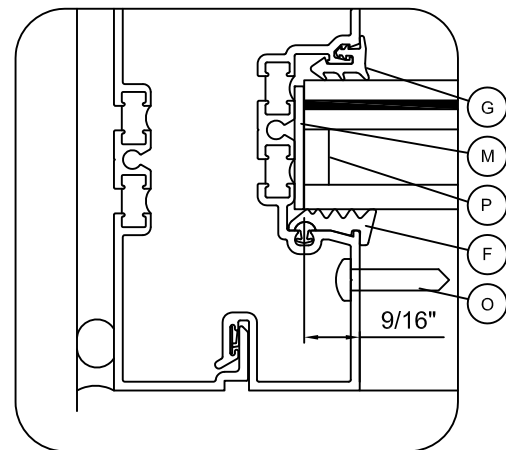
IG DRY GLAZED
1 5/16" - 1 5/16"



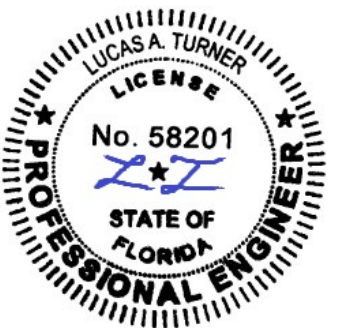
IG DRY GLAZED
1 5/16" - 1 5/16"



IG DRY GLAZED
1 5/16"



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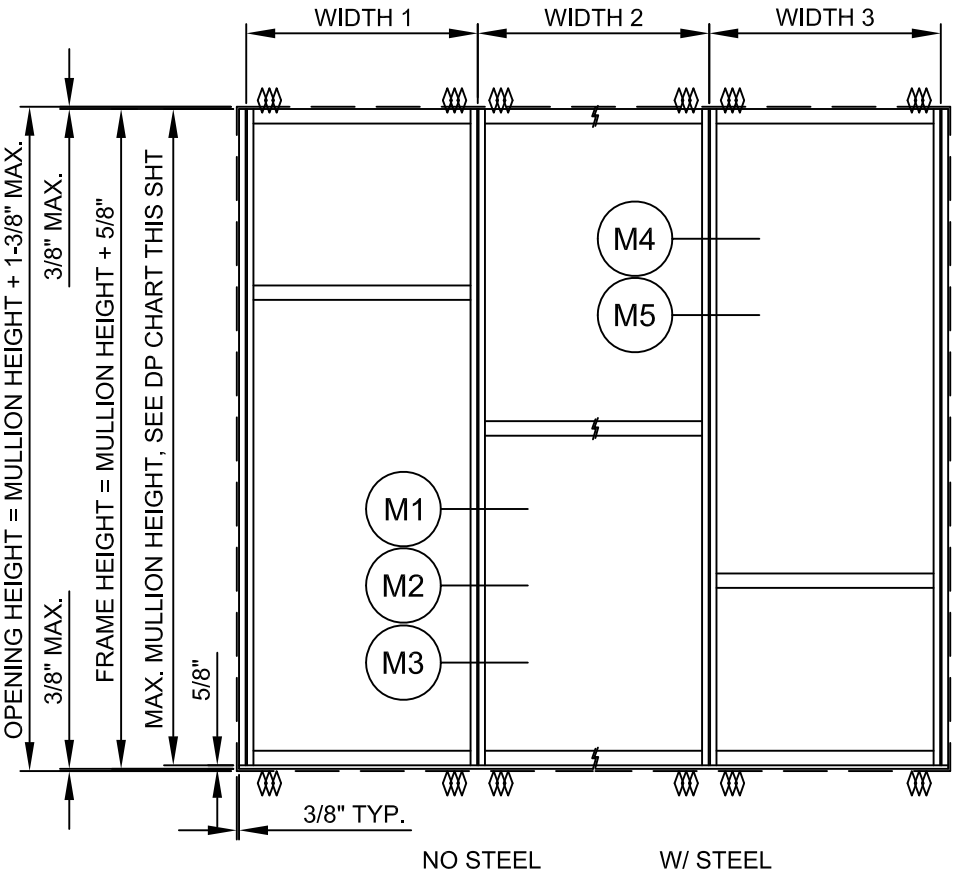
DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	SHEET 6
DATE 6/8/2026	
SCALE NTS	

Mullions w/ Shallow Pocket Fillers Load Capacity [PSF, ASD, Ext. (+) and Int. (-)]
Field Glazed Only

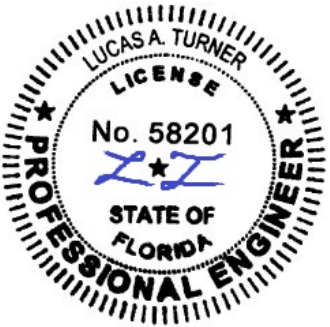
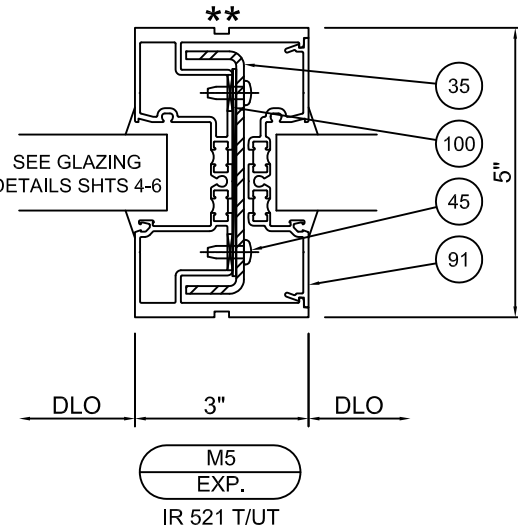
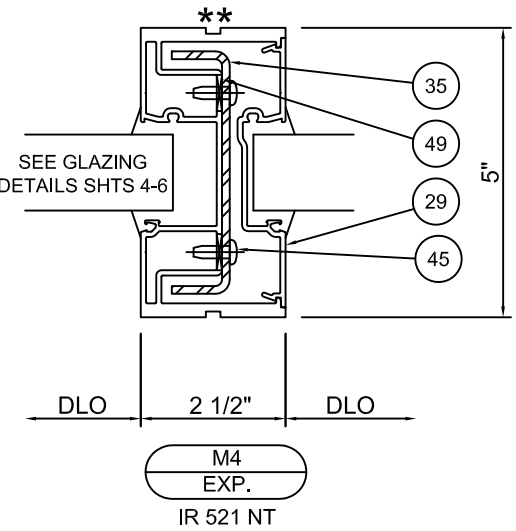
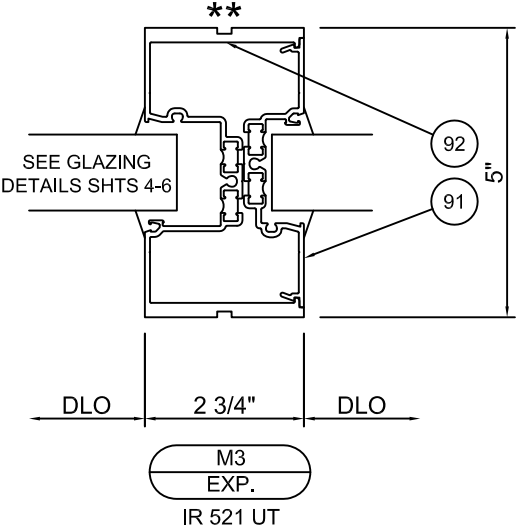
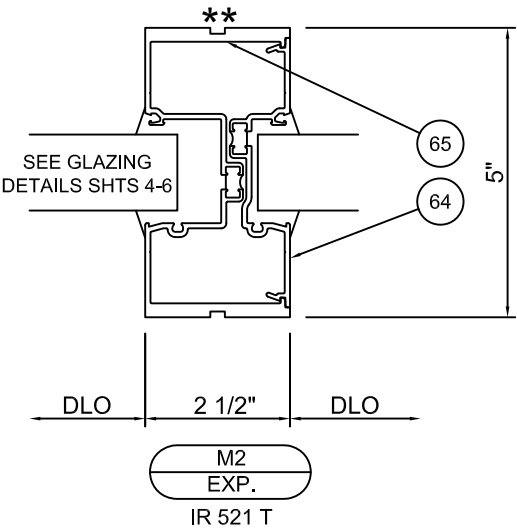
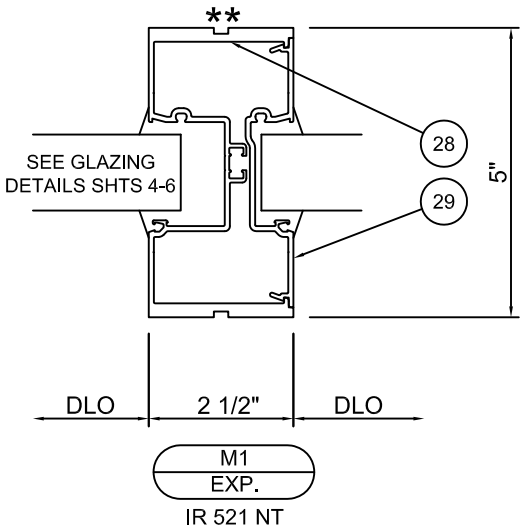
Small Missile Level A and Large Missile Level D Impact Rated

Tributary Width	Mullion Height	No Steel - M1, M2, M3			w/ Steel M4, M5		
		NT	T	UT	NT	T	UT
30	96	70.0	70.0	70.0	90.0	90.0	90.0
36		70.0	70.0	70.0	90.0	90.0	90.0
36.25		70.0	70.0	70.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
42		70.0	70.0	70.0	90.0	90.0	90.0
48		60.0	60.0	50.0	90.0	90.0	90.0
54		60.0	60.0	50.0	90.0	90.0	90.0
60		60.0	60.0	50.0	90.0	90.0	90.0
60.25		50.0	50.0	50.0	90.0	90.0	90.0
60.5		-	-	-	90.0	90.0	90.0
30	102	70.0	70.0	70.0	90.0	90.0	90.0
36		70.0	70.0	70.0	90.0	90.0	90.0
36.25		70.0	70.0	70.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
42		70.0	70.0	70.0	90.0	90.0	90.0
48		60.0	60.0	-	90.0	90.0	90.0
54		60.0	60.0	-	90.0	90.0	90.0
60		60.0	60.0	-	90.0	90.0	90.0
60.25		-	-	-	90.0	90.0	90.0
60.5		-	-	-	90.0	90.0	90.0
30	108	70.0	70.0	70.0	90.0	90.0	90.0
36		70.0	70.0	70.0	90.0	90.0	90.0
36.25		70.0	70.0	70.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
42		60.0	60.0	-	90.0	90.0	90.0
48		60.0	60.0	-	90.0	90.0	90.0
54		60.0	60.0	-	90.0	90.0	90.0
60		60.0	60.0	-	90.0	90.0	90.0
60.25		-	-	-	90.0	90.0	90.0
60.5		-	-	-	90.0	90.0	90.0

Tributary Width	Mullion Height	No Steel - M1, M2, M3			w/ Steel M4, M5		
		NT	T	UT	NT	T	UT
30	114	70.0	70.0	70.0	90.0	90.0	90.0
36		70.0	70.0	70.0	90.0	90.0	90.0
36.25		70.0	70.0	70.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
42		-	-	-	90.0	90.0	90.0
48		-	-	-	90.0	-	-
54		-	-	-	90.0	-	-
60		-	-	-	90.0	-	-
30	120	70.0	70.0	70.0	90.0	90.0	90.0
36		70.0	70.0	70.0	90.0	90.0	90.0
36.25		70.0	70.0	70.0	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
42		-	-	-	90.0	-	-
48		-	-	-	90.0	-	-
54		-	-	-	90.0	-	-
60		-	-	-	90.0	-	-
30	126	60.0	50.0	-	90.0	90.0	90.0
36		50.0	50.0	-	90.0	90.0	90.0
36.25		-	-	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
30	132	60.0	50.0	-	90.0	90.0	90.0
36		50.0	50.0	-	90.0	90.0	90.0
36.25		-	-	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
30	138	60.0	50.0	-	90.0	90.0	90.0
36		50.0	50.0	-	90.0	90.0	90.0
36.25		-	-	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0



TRIBUTARY WIDTH = $\frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$ OR $\frac{\text{WIDTH 2} + \text{WIDTH 3}}{2}$



6/16/2026
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PH. 941-380-1574

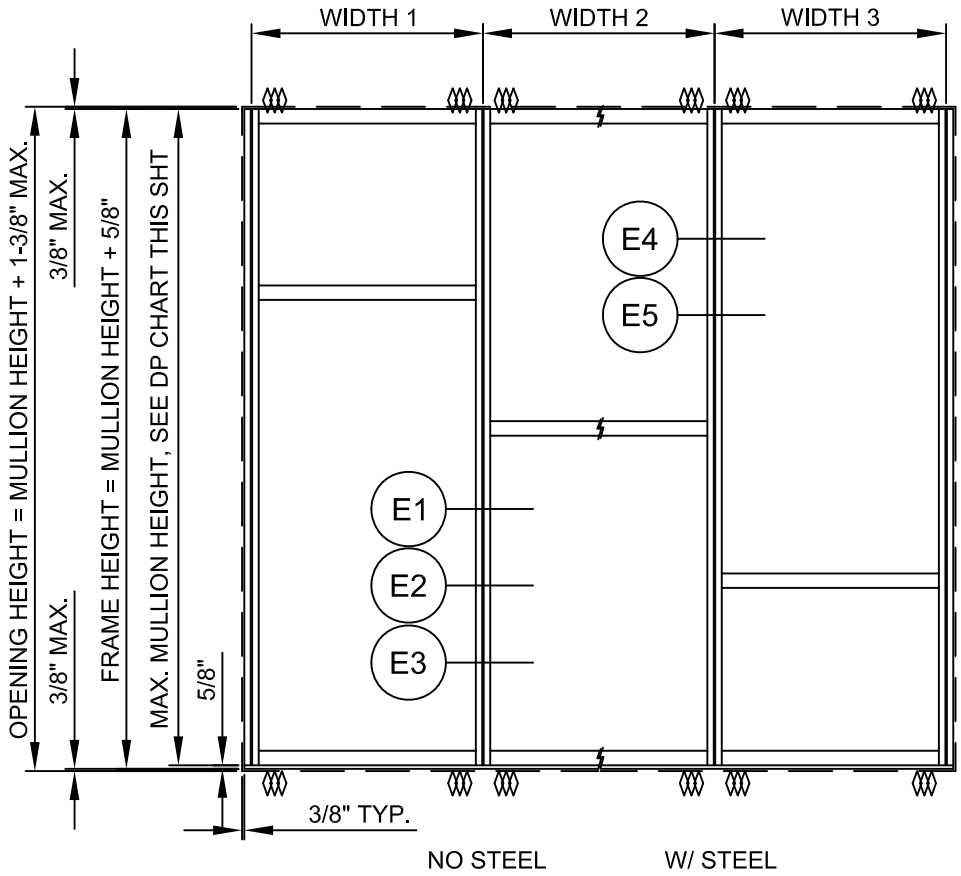
DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 7

** AT SILL FLASHING TYPICAL ALL DETAILS

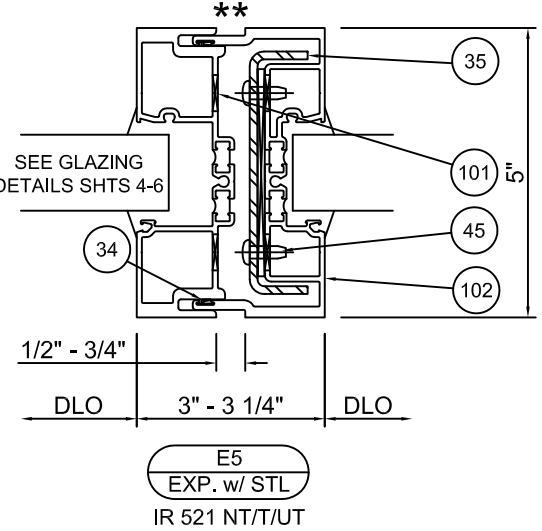
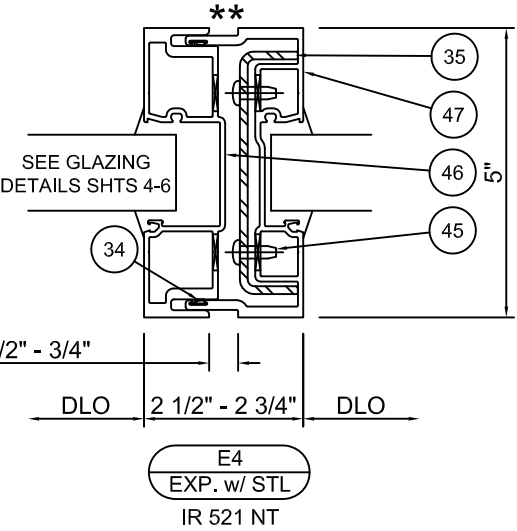
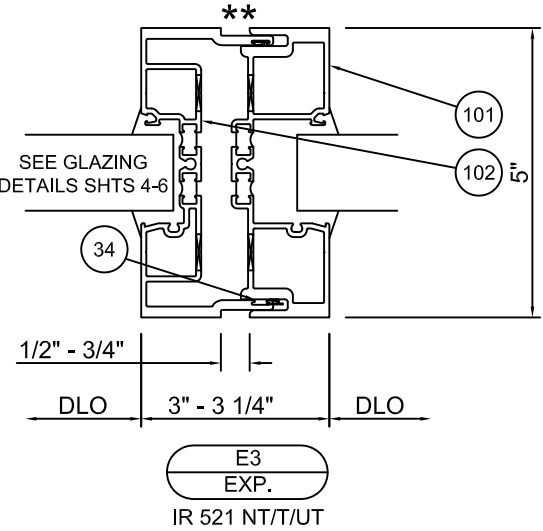
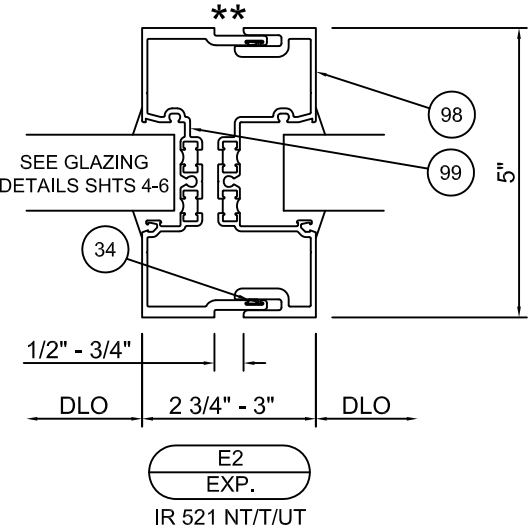
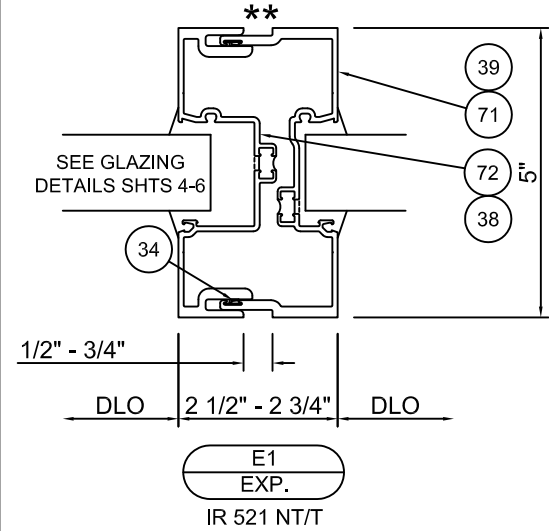
Expansion Mullion Load Capacity [PSF, ASD, Ext. (+) and Int. (-)]
Field or Pre Glazed
Small Missile Level A and Large Missile Level D Impact Rated

Tributary Width	Mullion Height	No Steel - E1, E2, E3			w/ Steel - E4, E5		
		NT	T	UT	NT	T	UT
30	96	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
36.75		70.0	70.0	70.0	90.0	90.0	90.0
42		70.0	70.0	70.0	90.0	90.0	90.0
48		70.0	70.0	50.0	90.0	90.0	90.0
54		70.0	70.0	50.0	90.0	90.0	90.0
60		70.0	70.0	50.0	90.0	90.0	90.0
60.25		-	-	50.0	90.0	90.0	90.0
60.5		-	-	50.0	90.0	90.0	90.0
60.75		-	-	-	90.0	90.0	90.0
30	102	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
36.75		70.0	70.0	70.0	90.0	90.0	90.0
42		70.0	70.0	70.0	90.0	90.0	90.0
48		70.0	70.0	-	90.0	90.0	90.0
54		70.0	70.0	-	90.0	90.0	90.0
60		70.0	70.0	-	90.0	90.0	90.0
60.25		-	-	-	90.0	90.0	90.0
60.5		-	-	-	90.0	90.0	90.0
60.75		-	-	-	90.0	90.0	90.0
30	108	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
36.75		70.0	70.0	70.0	90.0	90.0	90.0
42		70.0	70.0	-	90.0	90.0	90.0
48		70.0	70.0	-	90.0	90.0	90.0
54		70.0	70.0	-	90.0	90.0	90.0
60		70.0	70.0	-	90.0	90.0	90.0
60.25		-	-	-	90.0	90.0	90.0
60.5		-	-	-	90.0	90.0	90.0
60.75		-	-	-	90.0	90.0	90.0

Tributary Width	Mullion Height	No Steel - E1, E2, E3			w/ Steel - E4, E5		
		NT	T	UT	NT	T	UT
30	114	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
36.75		70.0	70.0	70.0	90.0	90.0	90.0
42		70.0	-	-	90.0	90.0	90.0
48		70.0	-	-	90.0	-	-
54		70.0	-	-	90.0	-	-
60		70.0	-	-	90.0	-	-
60.25		-	-	-	90.0	-	-
30	120	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0
42		-	-	-	90.0	90.0	90.0
48		-	-	-	90.0	-	-
54		-	-	-	90.0	-	-
60		-	-	-	90.0	-	-
60.25		-	-	-	90.0	-	-
30	126	55.0	55.0	-	90.0	90.0	90.0
36		55.0	55.0	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0
30	132	55.0	55.0	-	90.0	90.0	90.0
36		55.0	55.0	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0
30	138	55.0	55.0	-	90.0	90.0	90.0
36		55.0	55.0	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0



TRIBUTARY WIDTH = $\frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$ OR $\frac{\text{WIDTH 2} + \text{WIDTH 3}}{2}$



*** AT SILL FLASHING TYPICAL ALL DETAILS



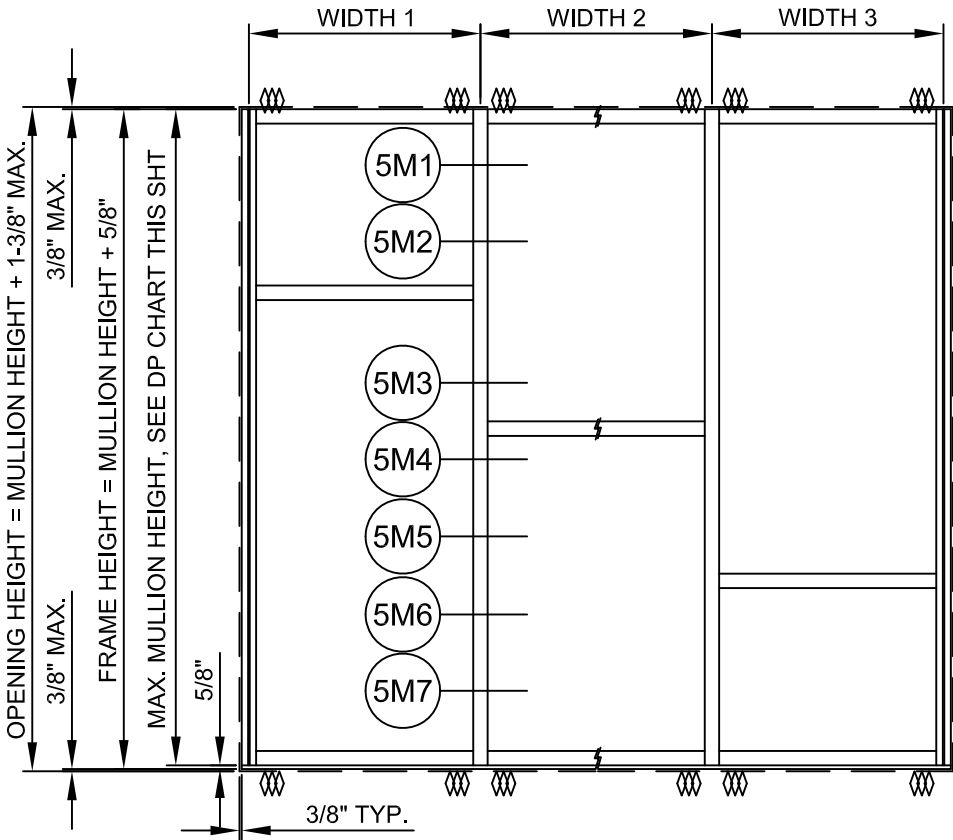
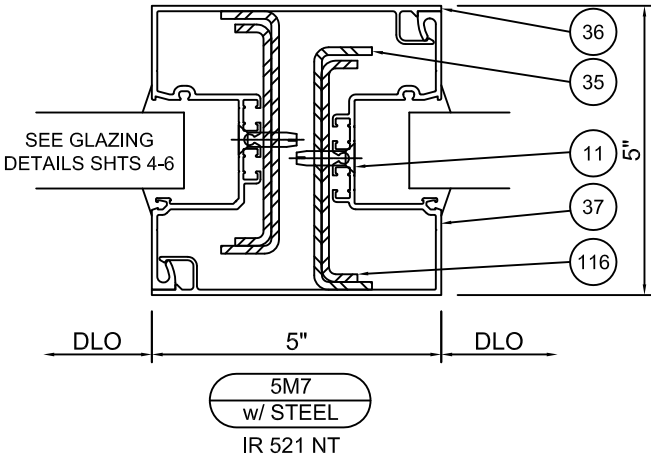
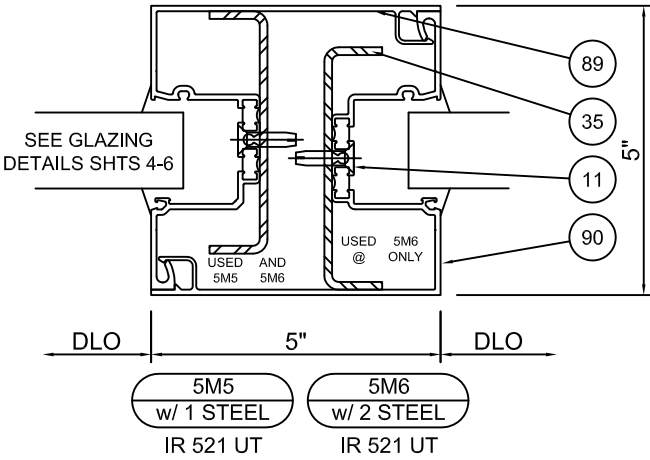
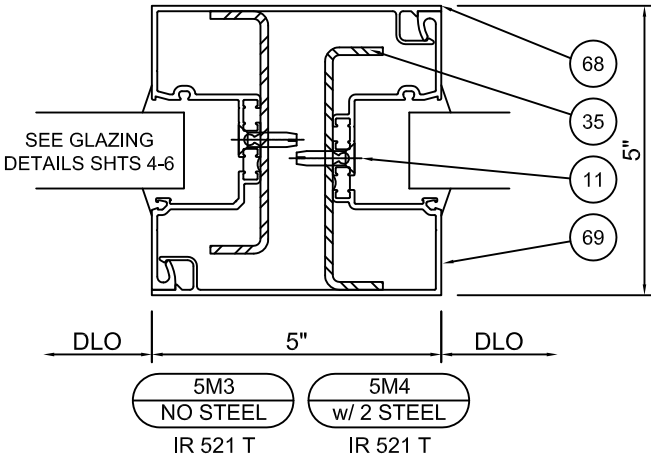
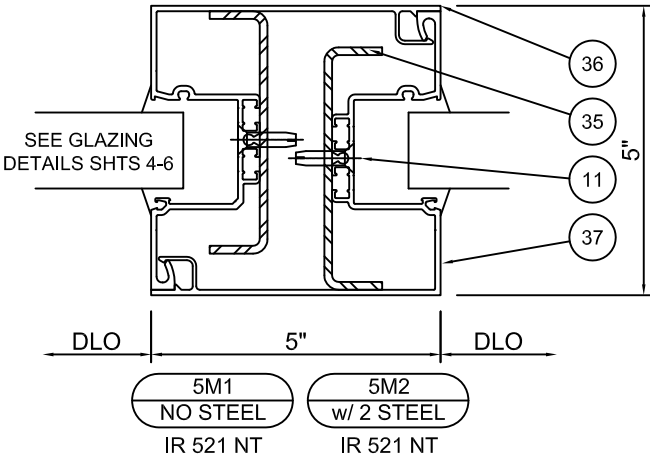
6/16/2026
LUCAS A. TURNER
FL P.E. #58201

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

DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 8

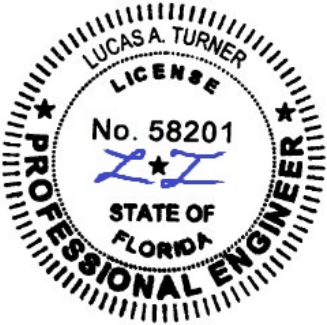
5" Mullions: 5M7, 5M2, 5M4, and 5M6 Load Capacity [PSF, ASD, Ext. (+) and Int. (-)] Field Glazed Only Small Missile Level A and Large Missile Level D Impact Rated											
Tributary Width	Mullion Height	5M7	5M2	5M4	5M6	Tributary Width	Mullion Height	5M7	5M2	5M4	5M6
		NT	NT	T	UT			NT	NT	T	UT
30	108	90.0	90.0	90.0	90.0	30	120	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	36		90.0	90.0	90.0	90.0
38.5		90.0	90.0	90.0	90.0	38.5		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	42		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0	48		90.0	-	-	-
54		90.0	90.0	90.0	90.0	54		90.0	-	-	-
60		90.0	90.0	90.0	90.0	60		90.0	-	-	-
66		90.0	90.0	90.0	90.0	66		90.0	-	-	-
72		90.0	90.0	90.0	90.0	72		90.0	-	-	-
74.5		90.0	90.0	90.0	90.0	74.5		90.0	-	-	-
30	114	90.0	90.0	90.0	90.0	30	126	-	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	36		-	90.0	90.0	90.0
38.5		90.0	90.0	90.0	90.0	38.5		-	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	42		-	90.0	90.0	90.0
48		90.0	-	-	-	30	132	-	90.0	90.0	90.0
54		90.0	-	-	-	36		-	90.0	90.0	90.0
60		90.0	-	-	-	38.5		-	90.0	90.0	90.0
66		90.0	-	-	-	30	138	-	90.0	90.0	90.0
72		90.0	-	-	-	36		-	90.0	90.0	90.0
74.5		90.0	-	-	-	38.5		-	90.0	90.0	90.0

5" Mullions: 5M1, 5M3, and 5M5 Load Capacity [PSF, ASD, Ext. (+) and Int. (-)] Field or Pre Glazed Small Missile Level A and Large Missile Level D Impact Rated									
Tributary Width	Mullion Height	5M1	5M3	5M5	Tributary Width	Mullion Height	5M1	5M3	5M5
		NT	T	UT			NT	T	UT
30	108	50.0	50.0	70.0	30	120	50.0	50.0	70.0
36		50.0	50.0	70.0	36		50.0	50.0	70.0
38.5		50.0	50.0	70.0	38.5		50.0	50.0	70.0
42		50.0	50.0	70.0	42		50.0	50.0	-
48		50.0	50.0	-	48		-	-	-
54		-	-	-	54		-	-	-
60		-	-	-	60		-	-	-
66		-	-	-	66		-	-	-
72		-	-	-	72		-	-	-
74.5		-	-	-	74.5		-	-	-
30	114	50.0	50.0	70.0	30	126	50.0	50.0	-
36		50.0	50.0	70.0	36		50.0	50.0	-
38.5		50.0	50.0	70.0	38.5		50.0	50.0	-
42		50.0	50.0	-	42		50.0	50.0	-
48		-	-	-	30	132	50.0	50.0	-
54		-	-	-	36		50.0	50.0	-
60		-	-	-	38.5		50.0	50.0	-
66		-	-	-	30	138	50.0	50.0	-
72		-	-	-	36		50.0	50.0	-
74.5		-	-	-	38.5		50.0	50.0	-



TRIBUTARY WIDTH = $\frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$ OR $\frac{\text{WIDTH 2} + \text{WIDTH 3}}{2}$

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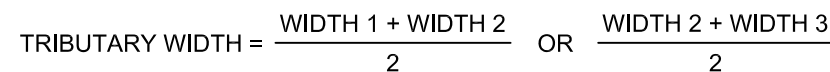
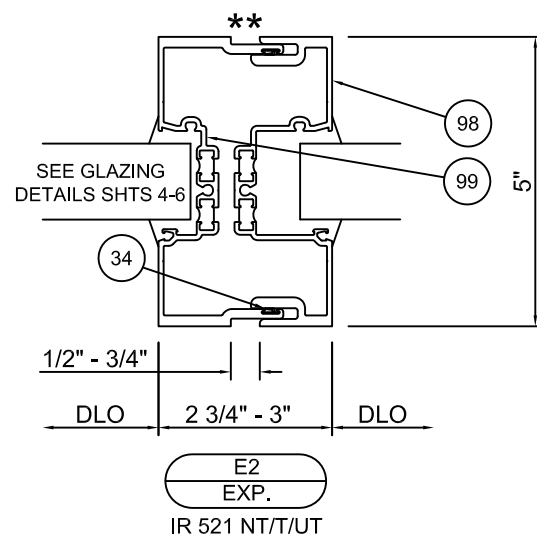
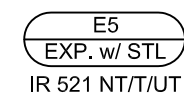


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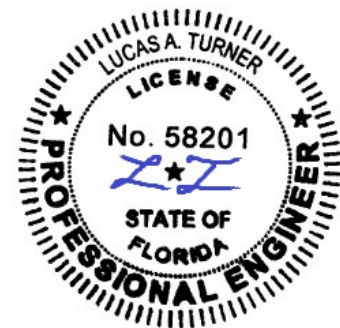
DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 9

Tributary Width	Mullion Height	No Steel - E1, E2, E3			w/ Steel - E5		
		NT	T	UT	NT	T	UT
30	114	70.0	70.0	70.0	90.0	90.0	90.0
36		70.0	70.0	70.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0
30	120	70.0	70.0	70.0	90.0	90.0	90.0
36		70.0	70.0	70.0	90.0	90.0	90.0
36.5		70.0	70.0	70.0	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0
30	126	50.0	50.0	-	90.0	90.0	90.0
36		50.0	50.0	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0
30	132	50.0	50.0	-	90.0	90.0	90.0
36		50.0	50.0	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0
30	138	50.0	50.0	-	90.0	90.0	90.0
36		50.0	50.0	-	90.0	90.0	90.0
36.5		-	-	-	90.0	90.0	90.0
36.75		-	-	-	90.0	90.0	90.0



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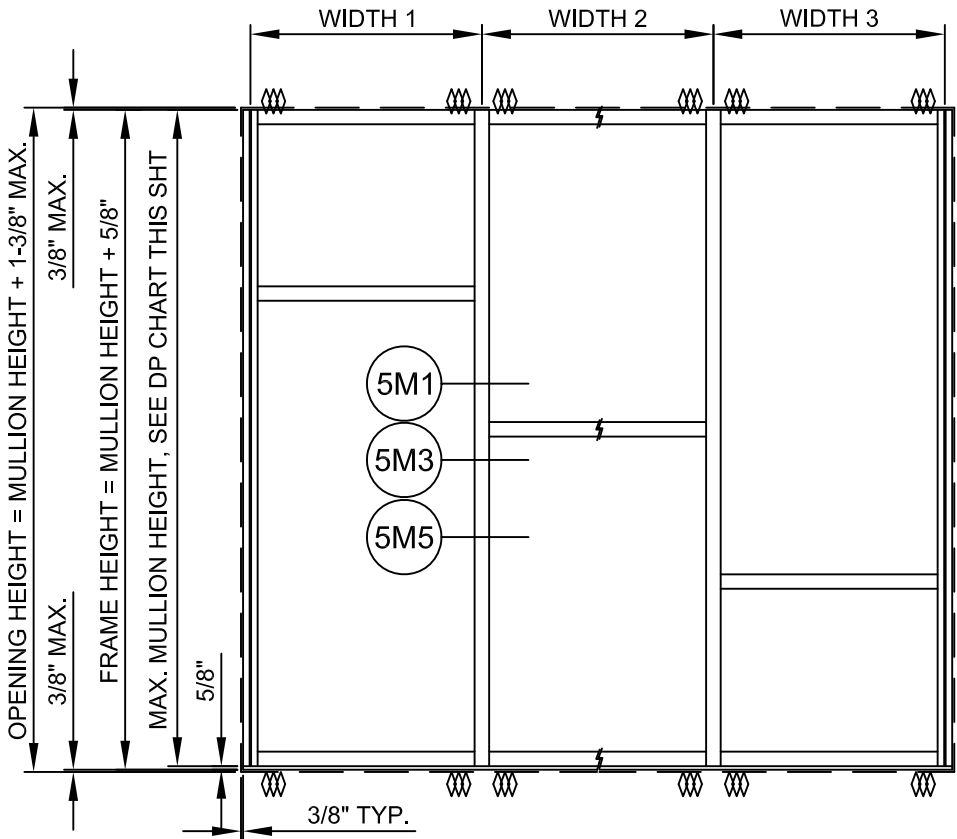
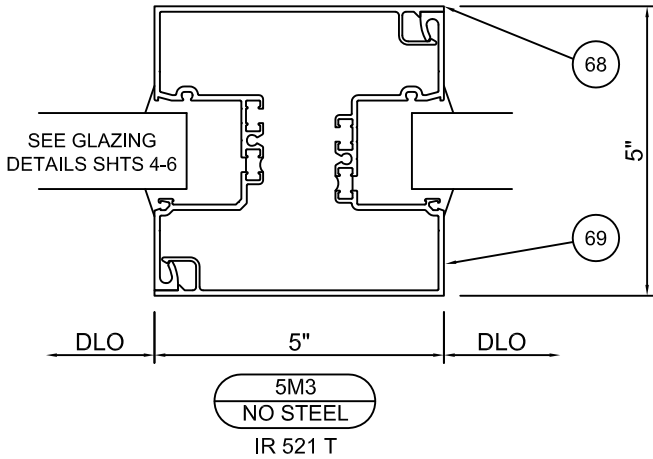
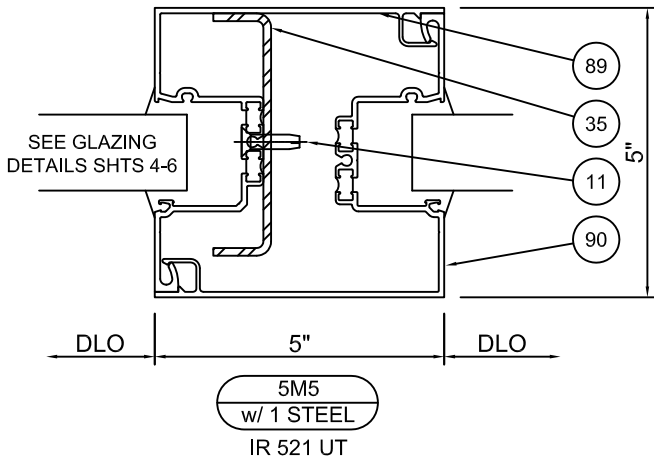
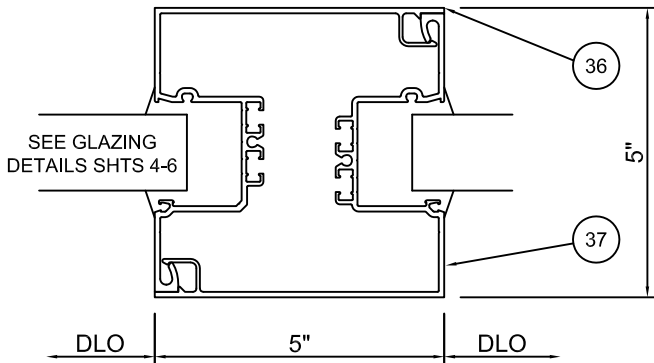


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DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 11

5" Mullions: 5M1, 5M3, and 5M5 Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Field Glazed Only
Large Missile Level E Impact Rated

Tributary Width	Mullion Height	5M1	5M3	5M5
		NT	T	UT
30	108	50.0	50.0	70.0
36		50.0	50.0	70.0
38.5		50.0	50.0	70.0
30	114	50.0	50.0	70.0
36		50.0	50.0	70.0
38.5		50.0	50.0	70.0
30	120	50.0	50.0	70.0
36		50.0	50.0	70.0
38.5		50.0	50.0	70.0
30	126	50.0	50.0	-
36		50.0	50.0	-
38.5		50.0	50.0	-
30	132	50.0	50.0	-
36		50.0	50.0	-
38.5		50.0	50.0	-
30	138	50.0	50.0	-
36		50.0	50.0	-
38.5		50.0	50.0	-



TRIBUTARY WIDTH = $\frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$ OR $\frac{\text{WIDTH 2} + \text{WIDTH 3}}{2}$



6/16/2026
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. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 12

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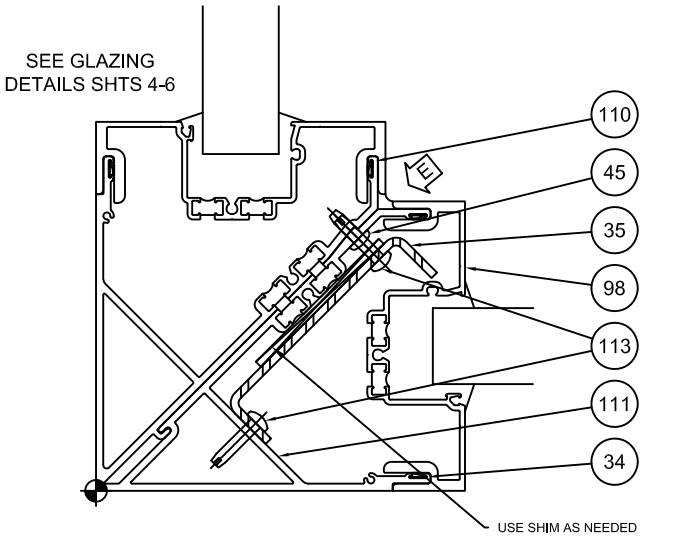
6/8/2026

REV. #

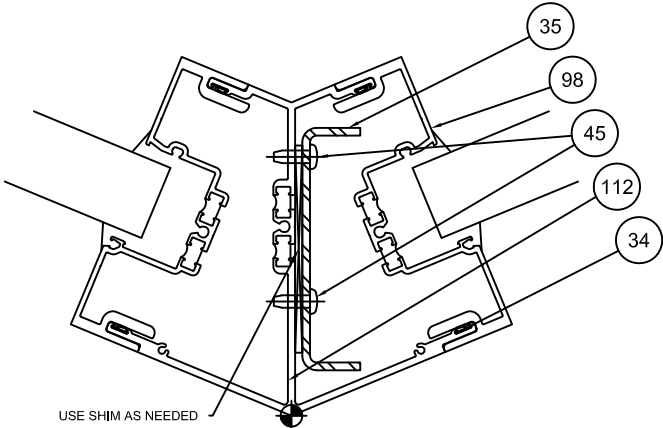
DATE

Corner Mullion Load Capacity [PSF, ASD, Ext. (+) and Int. (-)] Pre-Glazed Only Small Missile Level A and Large Missile Level D Impact Rated							
Tributary Width	Mullion Height	C1 90 Degree Corner			C2 135 Degree Corner		
		NT	T	UT	NT	T	UT
30	96	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0
41.125		70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	-	-	-
44.875		70.0	70.0	70.0	-	-	-
30	102	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0
41.125		70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	-	-	-
44.875		70.0	70.0	70.0	-	-	-
30	108	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0
41.125		70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	-	-	-
44.875		70.0	70.0	70.0	-	-	-
30	114	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0
41.125		70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	-	-	-
44.875		70.0	70.0	70.0	-	-	-
30	120	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0
41.125		70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	-	-	-
44.875		70.0	70.0	70.0	-	-	-

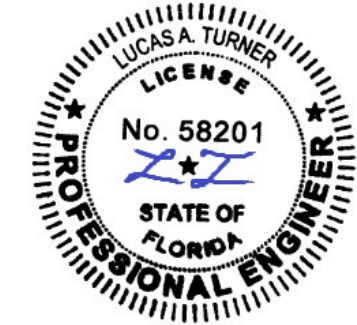
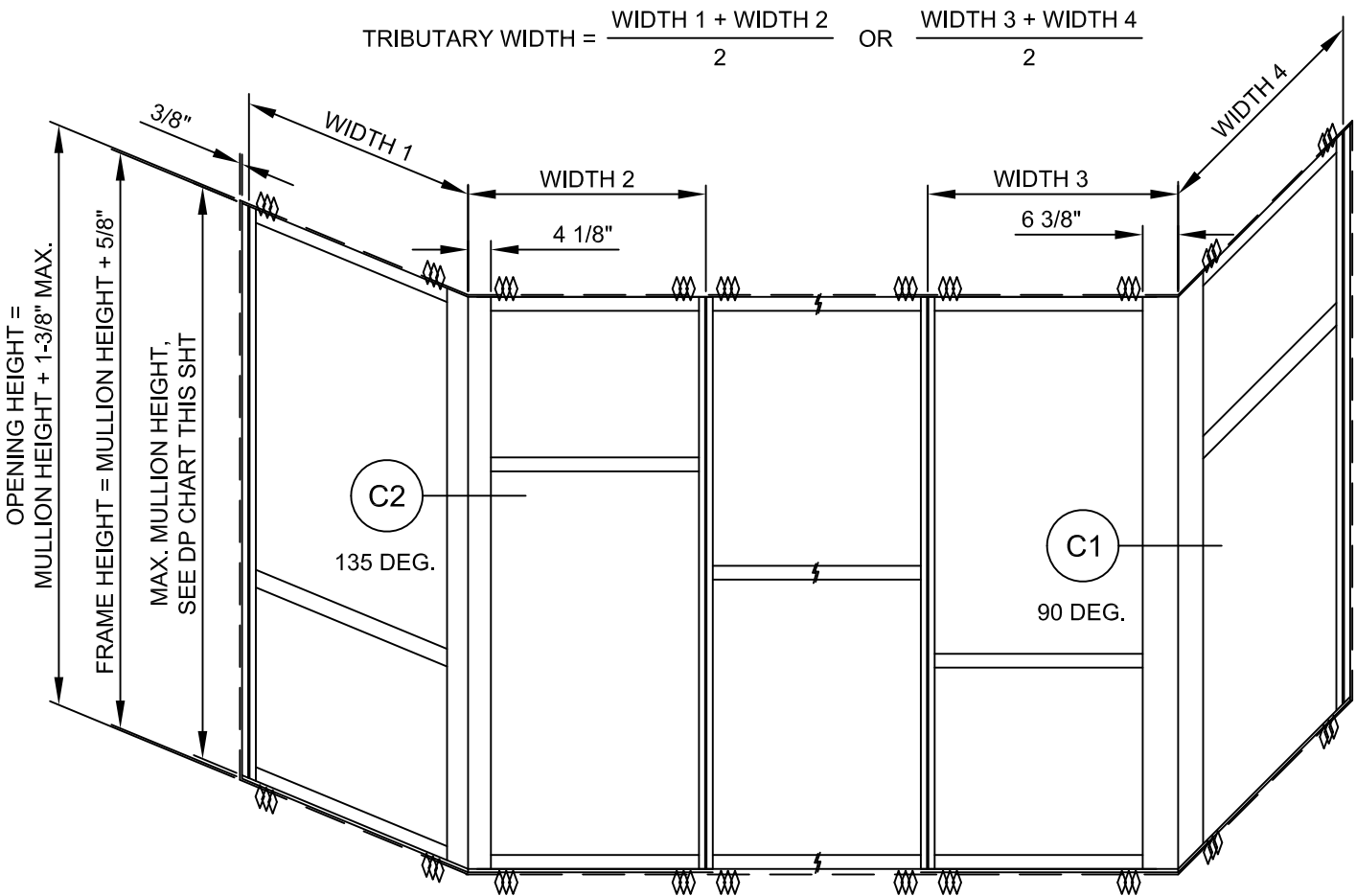
Corner Mullion Load Capacity [PSF, ASD, Ext. (+) and Int. (-)] Field-Glazed Only Small Missile Level A and Large Missile Level D Impact Rated							
Tributary Width	Mullion Height	C1 90 Degree Corner			C2 135 Degree Corner		
		NT	T	UT	NT	T	UT
30	96	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
41.125		90.0	90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	-	-	-
44.875		90.0	90.0	90.0	-	-	-
30	102	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
41.125		90.0	90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	-	-	-
44.875		90.0	90.0	90.0	-	-	-
30	108	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
41.125		90.0	90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	-	-	-
44.875		90.0	90.0	90.0	-	-	-
30	114	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
41.125		90.0	90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	-	-	-
44.875		90.0	90.0	90.0	-	-	-
30	120	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0
41.125		90.0	90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	-	-	-
44.875		90.0	90.0	90.0	-	-	-



C1
90 DEG.
IR 521 NT/T/UT



C2
135 DEG.
IR 521 NT/T/UT



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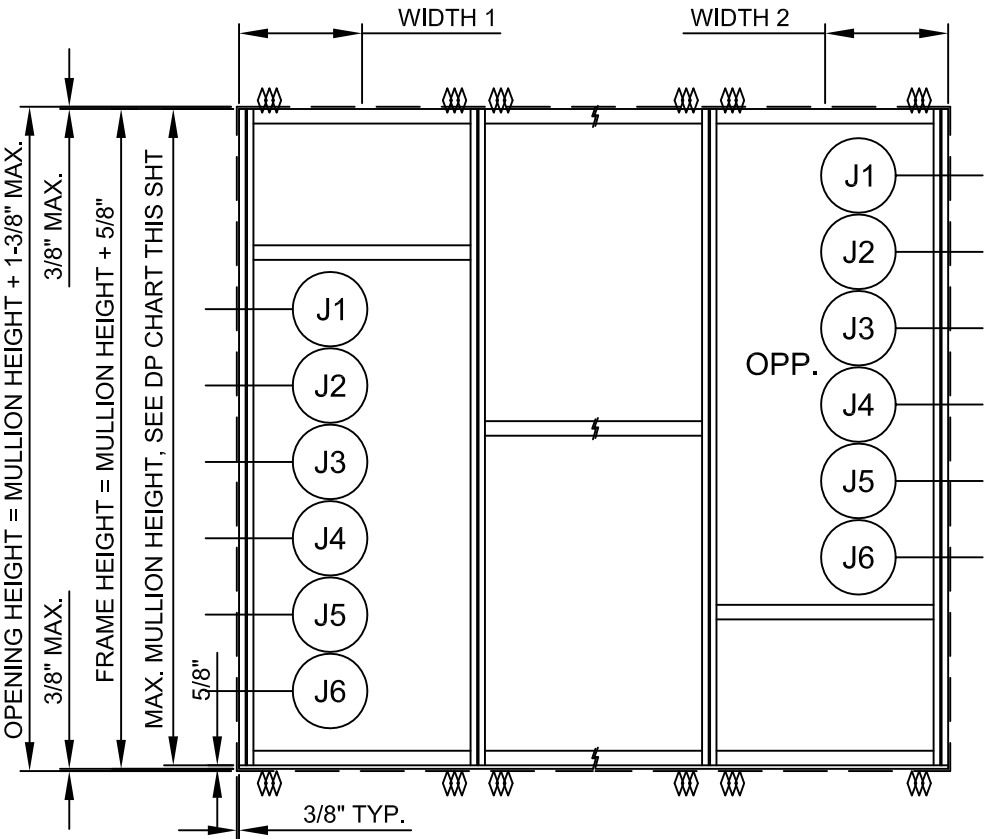
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DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	SHEET 13
DATE 6/8/2026	
SCALE NTS	

Jamb Mullion Load Capacity [PSF, ASD, Ext. (+) and Int. (-)]
Field or Pre Glazed
Small Missile Level A and Large Missile Level D Impact Rated

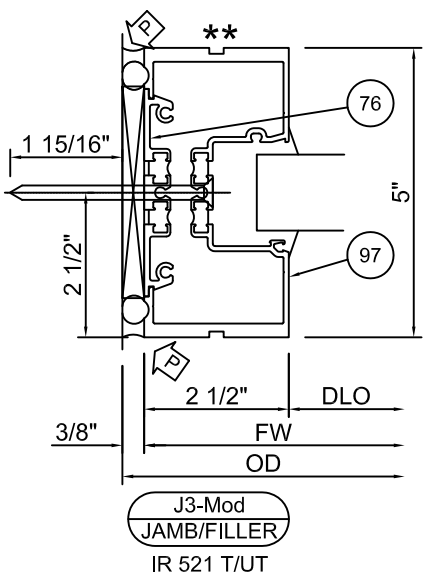
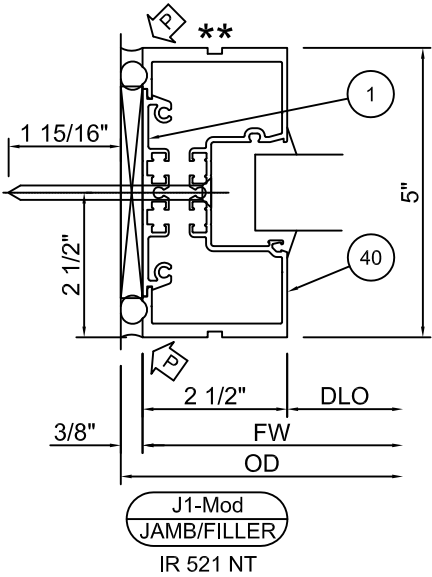
Tributary Width	Mullion Height	Jambs J1, J2, J3			2-pc Jambs J4, J5, J6		
		NT	T	UT	NT	T	UT
16.25	96	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		90.0	90.0	90.0	70.0	70.0	70.0
37.25		90.0	-	-	-	-	-
16.25	102	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		90.0	90.0	90.0	70.0	-	-
37.25		90.0	-	-	-	-	-
16.25	108	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		90.0	90.0	90.0	70.0	-	-
37.25		90.0	-	-	-	-	-
16.25	114	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		90.0	-	-	70.0	-	-
37.25		90.0	-	-	-	-	-

Tributary Width	Mullion Height	Jambs J1, J2, J3			2-pc Jambs J4, J5, J6		
		NT	T	UT	NT	T	UT
16.25	120	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		90.0	-	-	-	-	-
37.25		90.0	-	-	-	-	-
16.25	126	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		-	-	-	-	-	-
37.25		-	-	-	-	-	-
16.25	132	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		-	-	-	-	-	-
37.25		-	-	-	-	-	-
16.25	138	90.0	90.0	90.0	90.0	90.0	90.0
18.563		90.0	90.0	90.0	90.0	90.0	90.0
19.25		90.0	90.0	90.0	90.0	90.0	90.0
31.25		-	-	-	-	-	-
37.25		-	-	-	-	-	-



JAMB TRIBUTARY WIDTH = WIDTH 1 OR WIDTH 2

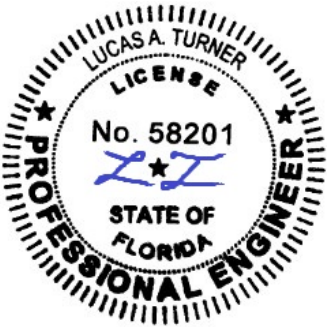
SEE GLAZING
DETAILS SHTS 4-6



12" FILLER WITH INSTALLATION ANCHORAGE REQUIRED AT ENDS OF
HORIZONTALS FOR JAMBS WITH TRIBUTARY WIDTHS GREATER THAN 31.25"

*** AT SILL FLASHING TYPICAL ALL DETAILS

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6/16/2026
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. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 14

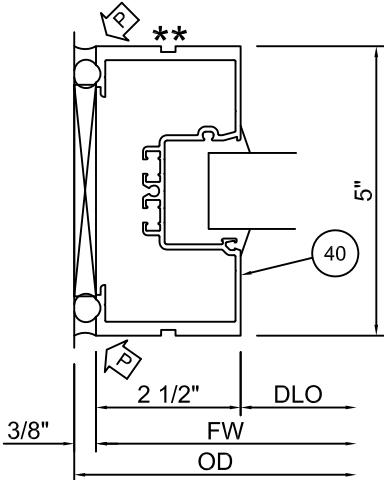
Jamb Mullion Load Capacity [PSF, ASD, Ext. (+) and Int. (-)]

Pre-Glazed Only

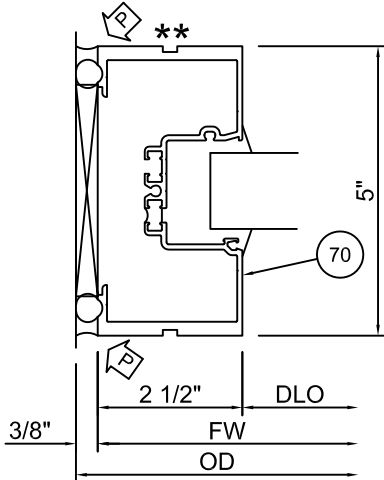
Large Missile Level E Impact Rated

Tributary Width	Mullion Height	Jambs J1, J2, J3			2-pc Jambs J4, J5, J6		
		NT	T	UT	NT	T	UT
16.25	96	90.0	90.0	90.0	70.0	70.0	70.0
18.563		90.0	90.0	90.0	70.0	70.0	70.0
19.25		90.0	90.0	90.0	70.0	70.0	70.0
31.25		90.0	90.0	90.0	70.0	70.0	70.0
16.25	102	90.0	90.0	90.0	70.0	70.0	-
18.563		90.0	90.0	90.0	70.0	70.0	-
19.25		90.0	90.0	90.0	70.0	70.0	-
31.25		90.0	90.0	90.0	70.0	70.0	-
16.25	108	90.0	90.0	90.0	70.0	70.0	-
18.563		90.0	90.0	90.0	70.0	70.0	-
19.25		90.0	90.0	90.0	70.0	70.0	-
31.25		90.0	90.0	90.0	70.0	70.0	-
16.25	114	50.0	50.0	-	-	-	-
18.563		50.0	50.0	-	-	-	-
19.25		50.0	50.0	-	-	-	-
31.25		-	-	-	-	-	-

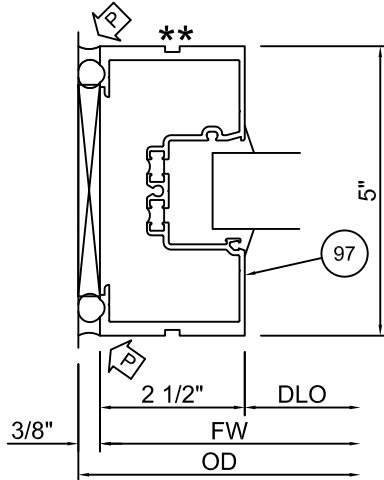
Tributary Width	Mullion Height	Jambs J1, J2, J3			2-pc Jambs J4, J5, J6		
		NT	T	UT	NT	T	UT
16.25	120	50.0	50.0	-	-	-	-
18.563		50.0	50.0	-	-	-	-
19.25		50.0	50.0	-	-	-	-
31.25		-	-	-	-	-	-
16.25	126	50.0	50.0	-	-	-	-
18.563		50.0	50.0	-	-	-	-
19.25		50.0	50.0	-	-	-	-
31.25		-	-	-	-	-	-
16.25	132	50.0	50.0	-	-	-	-
18.563		50.0	50.0	-	-	-	-
19.25		50.0	50.0	-	-	-	-
31.25		-	-	-	-	-	-
16.25	138	50.0	50.0	-	-	-	-
18.563		50.0	50.0	-	-	-	-
19.25		50.0	50.0	-	-	-	-
31.25		-	-	-	-	-	-



J1
JAMB
IR 521 NT

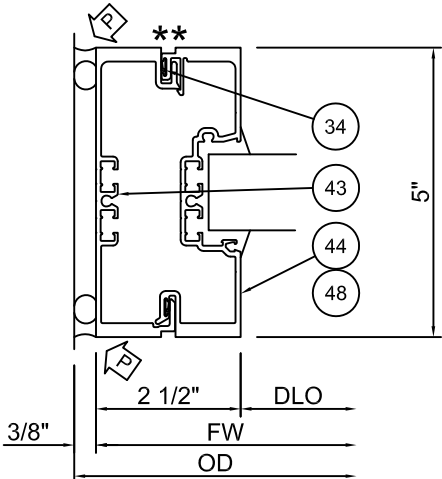


J2
JAMB
IR 521 T

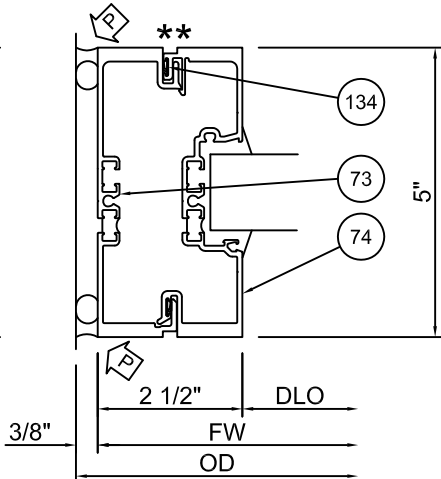


J3
JAMB
IR 521 UT

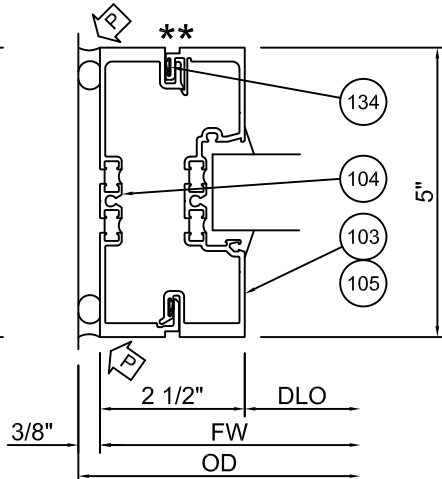
SEE GLAZING
DETAILS SHTS 4-6



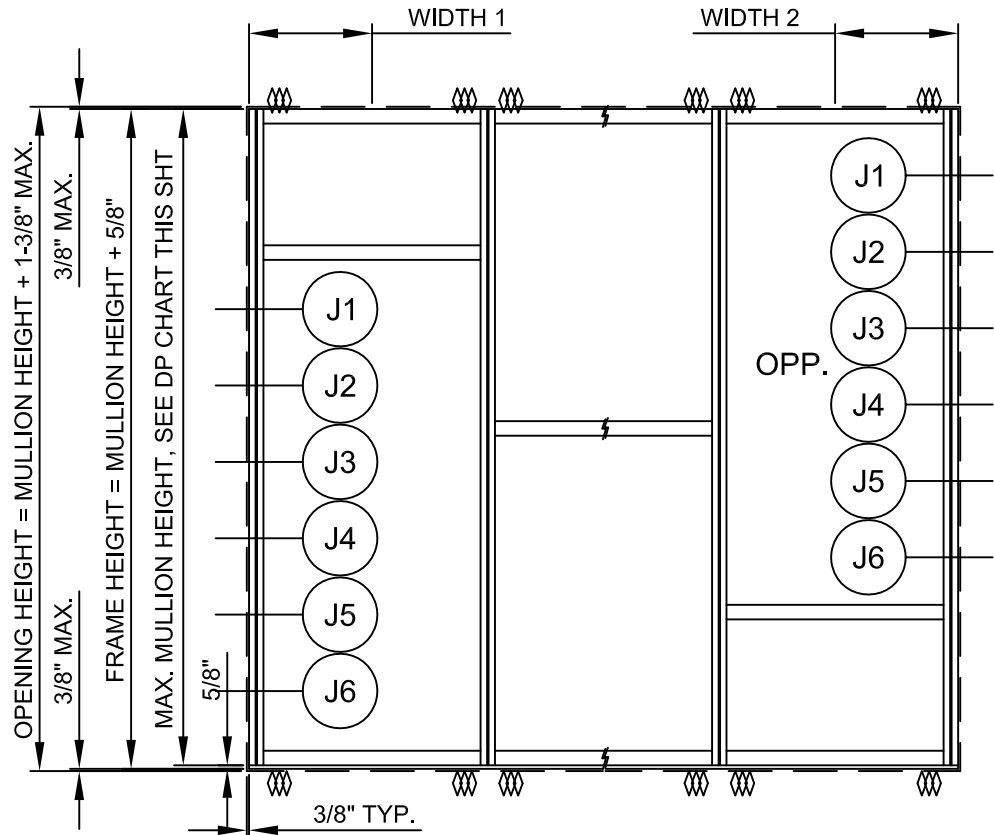
J4
2 PC. JAMB
IR 521 NT



J5
2 PC. JAMB
IR 521 T



J6
2 PC. JAMB
IR 521 UT



JAMB TRIBUTARY WIDTH = WIDTH 1 OR WIDTH 2

** AT SILL FLASHING TYPICAL ALL DETAILS



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6/16/2026
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. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 15

6/8/2026	DATE
-	REV. #
INITIAL RELEASE	PRINTS ISSUED FOR

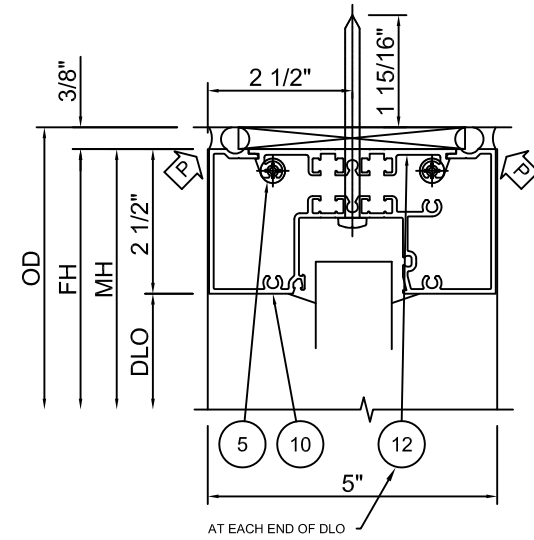
Head Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Field Glazed Only
Small Missile Level A and
Large Missile Level D Impact Rated

Thermal Type	Detail	DLO Width (in.)		
		33.5	57.5	69.5
NT	H1	90.0	90.0	90.0
NT/T	H2	70.0	-	-
NT/T/UT	H3	90.0	90.0	90.0
NT	H4	90.0	90.0	90.0
NT	H5	70.0	-	-
NT/T	H6	70.0	-	-
NT/T	H7	70.0	-	-
NT/T	H8	60.0	60.0	-
NT/T/UT	H9	90.0	90.0	90.0
NT/T/UT	H10	70.0	-	-
NT/T/UT	H11	90.0	-	-

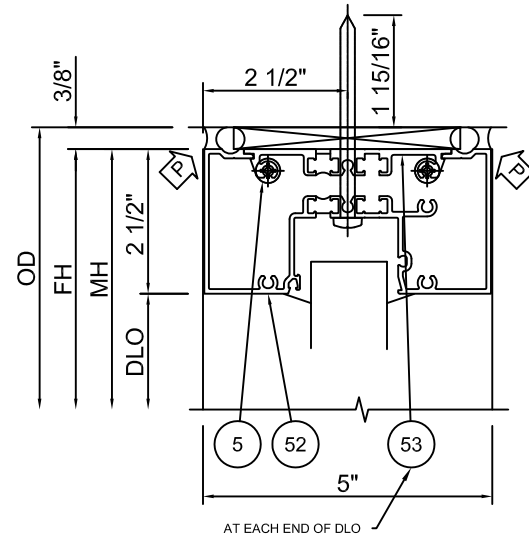
Head Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Field Glazed Only
Large Missile Level E Impact Rated

Thermal Type	Detail	DLO Width (in.)		
		33.5	57.5	69.5
NT/T	H2	50.0	-	-
NT/T/UT	H3	70.0	-	-
NT/T	H6	50.0	-	-
NT/T	H7	50.0	-	-
NT/T/UT	H9	90.0	90.0	-
NT/T/UT	H10	70.0	-	-

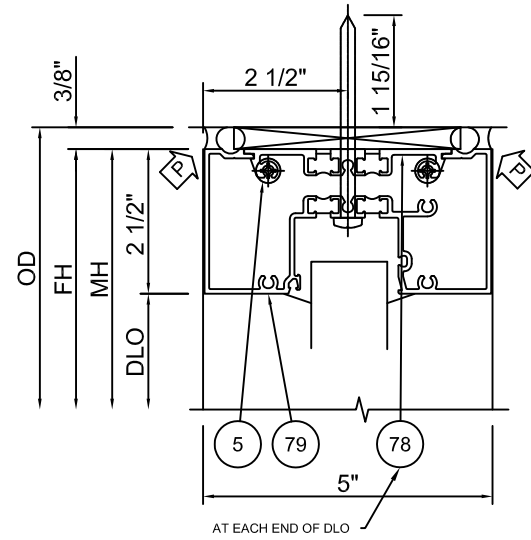
SEE GLAZING
DETAILS SHTS 4-6



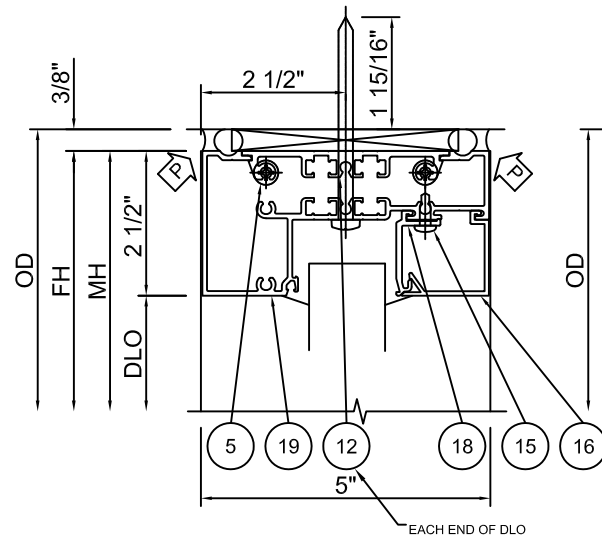
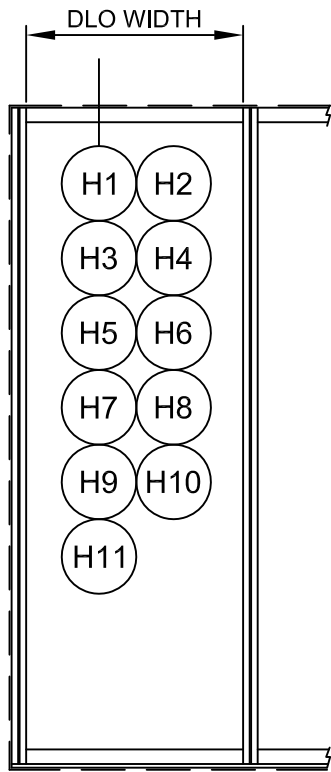
H1
HEAD
IR 521 NT



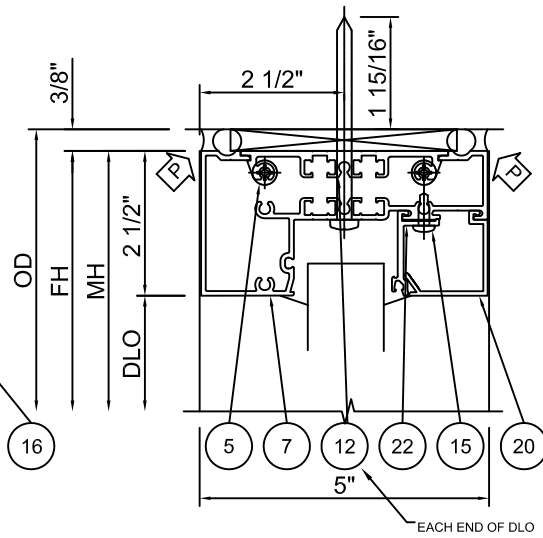
H2
HEAD
IR 521 T



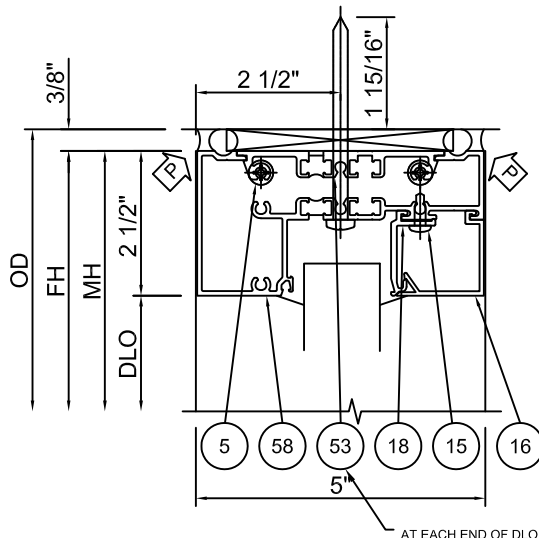
H3
HEAD
IR 521 UT



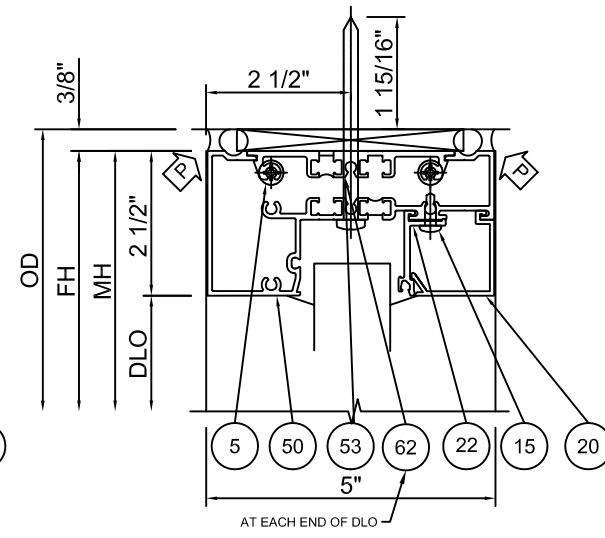
H4
HEAD
IR 521 NT



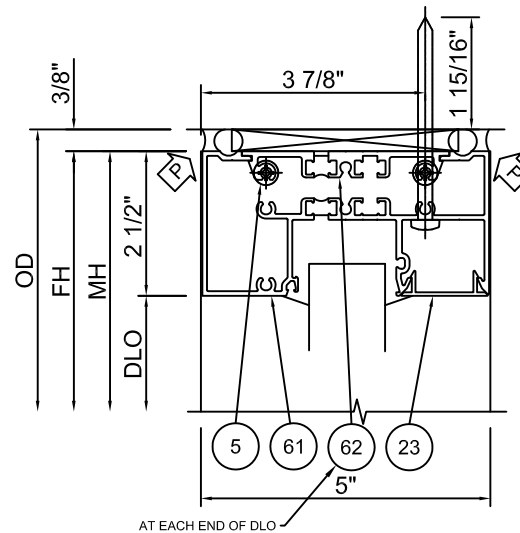
H5
HEAD
IR 521 NT



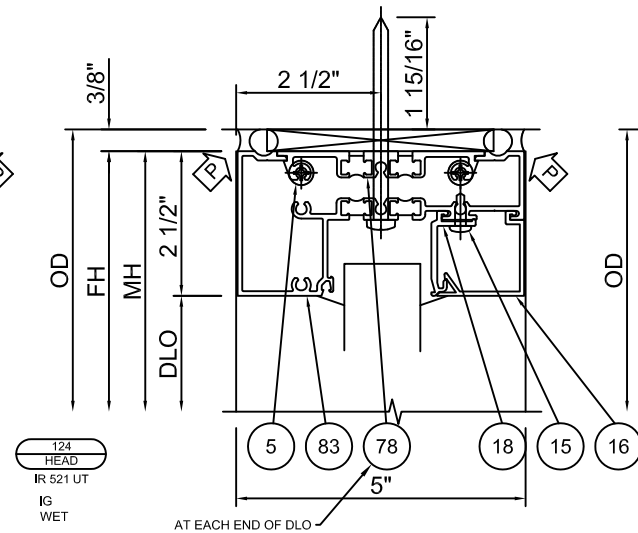
H6
HEAD
IR 521 T



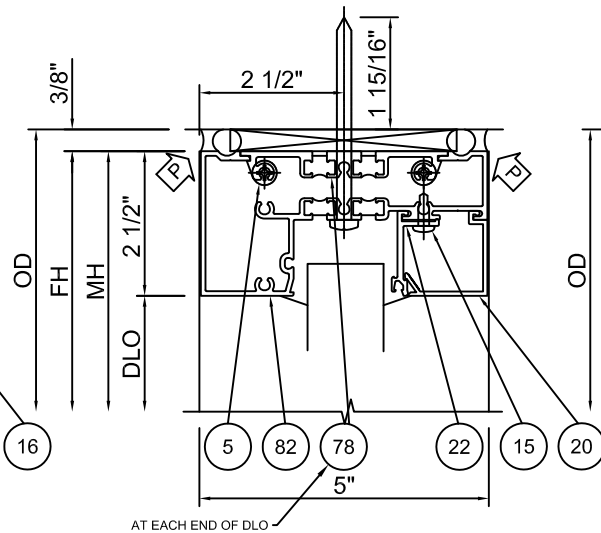
H7
HEAD
IR 521 T



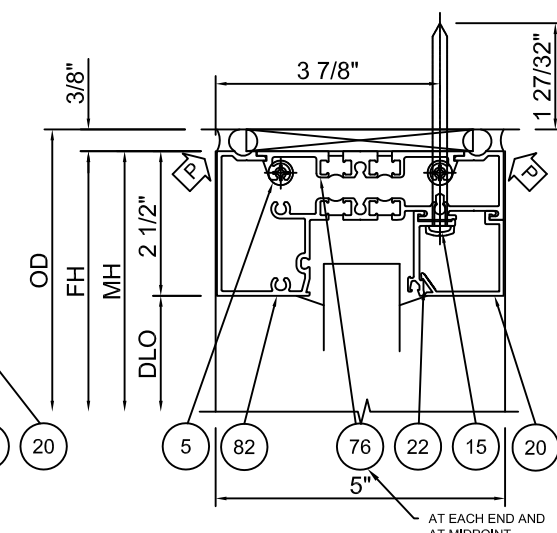
H8
HEAD
IR 521 T



H9
HEAD
IR 521 UT



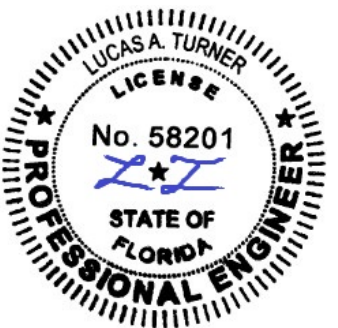
H10
HEAD
IR 521 UT



H11
HEAD
IR 521 UT



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

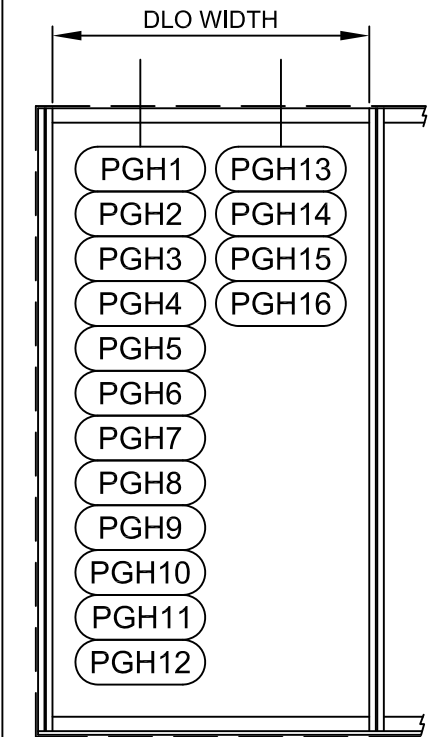
DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 16

Head Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Pre-Glazed Only
Small Missile Level A and
Large Missile Level D
Impact Rated

Thermal Type	Detail	DLO Width	
		33.5	57.5
NT	PGH1	90.0	-
NT/T/UT	PGH2	90.0	-
NT	PGH3	90.0	70.0
NT/T/UT	PGH4	90.0	-
NT	PGH5	90.0	-
NT	PGH6	90.0	-
NT/T	PGH7	70.0	70.0
NT	PGH8	70.0	50.0
NT/T	PGH9	70.0	-
NT/T/UT	PGH10	70.0	-
NT	PGH11	70.0	50.0
NT	PGH12	70.0	-
NT/T	PGH13	70.0	-
NT/T	PGH14	70.0	-
NT/T/UT	PGH15	70.0	-
NT/T/UT	PGH16	70.0	-

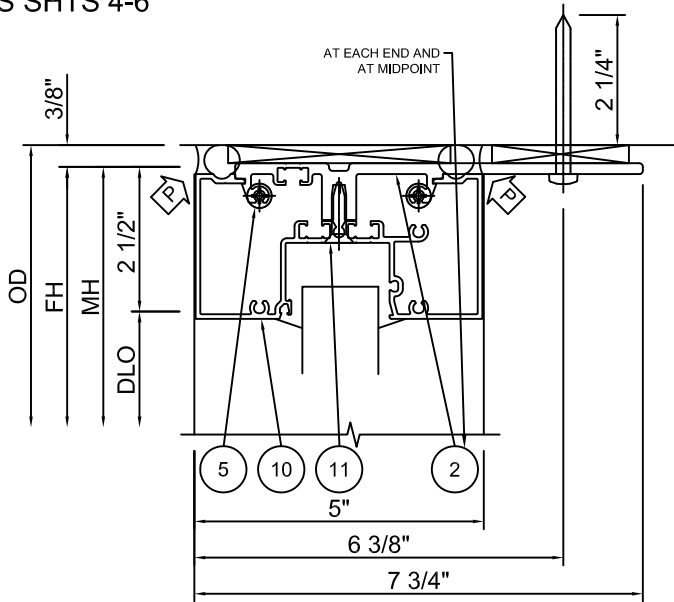
Head Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Pre-Glazed Only
Large Missile Level E
Impact Rated

Thermal Type	Detail	DLO Width	
		33.5	57.5
NT/T/UT	PGH7	70.0	70.0

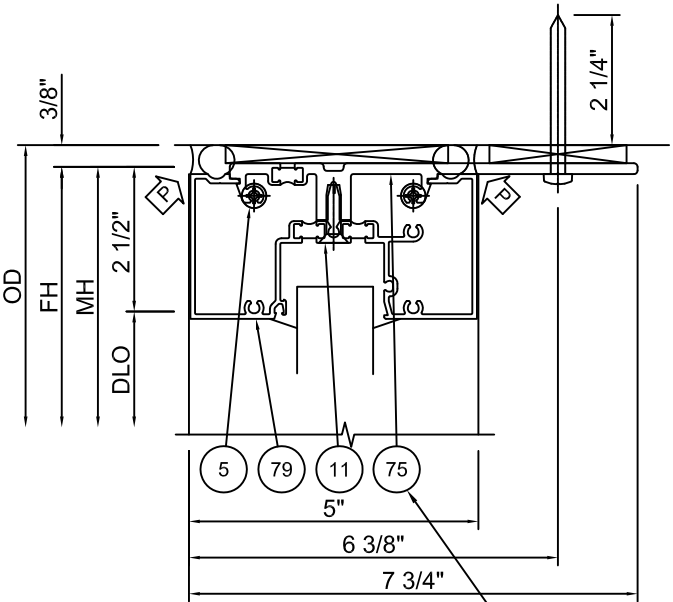


SEE GLAZING
DETAILS SHTS 4-6

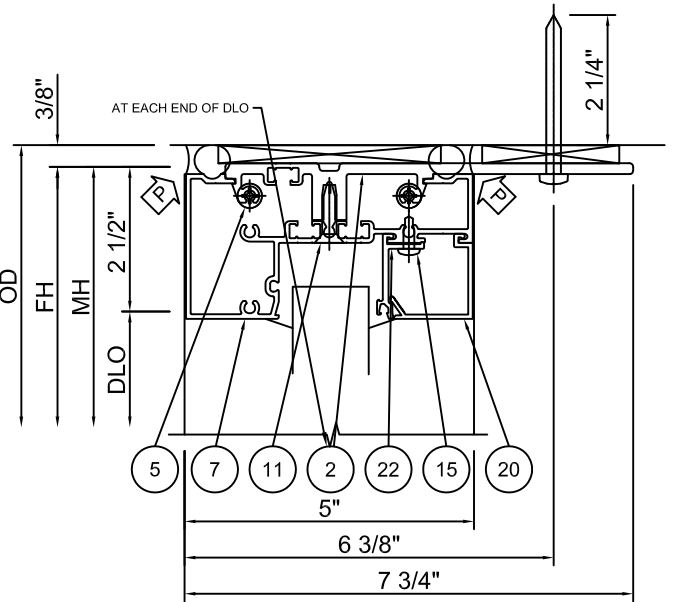
PRE-GLAZED HEAD OPTIONS



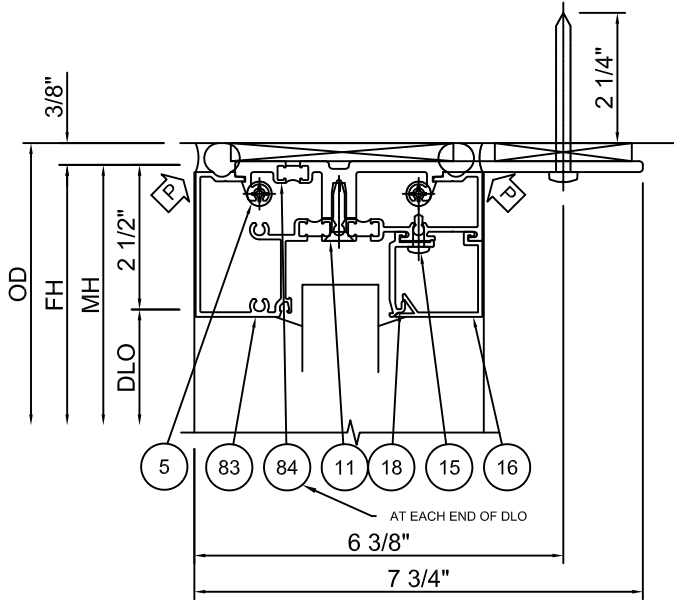
PGH1
PG HEAD
IR 521 NT



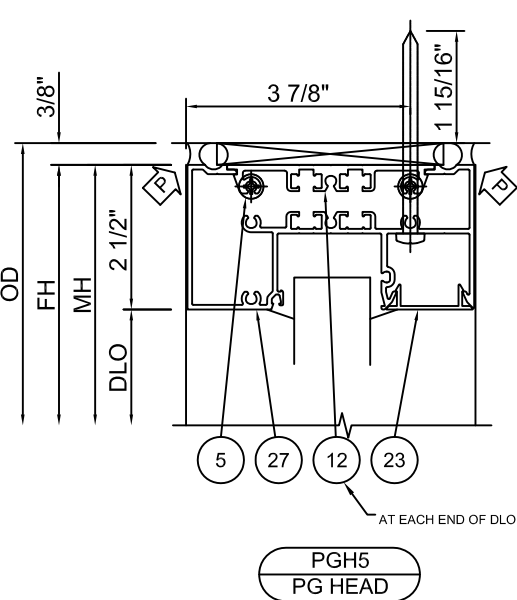
PGH2
PG HEAD
IR 521 UT



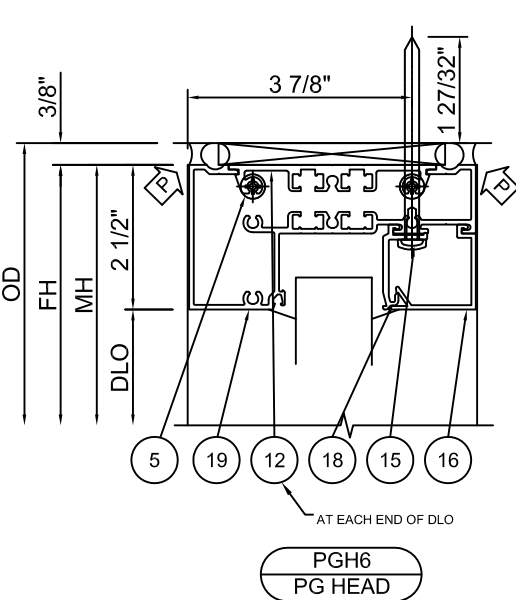
PGH3
PG HEAD
IR 521 NT



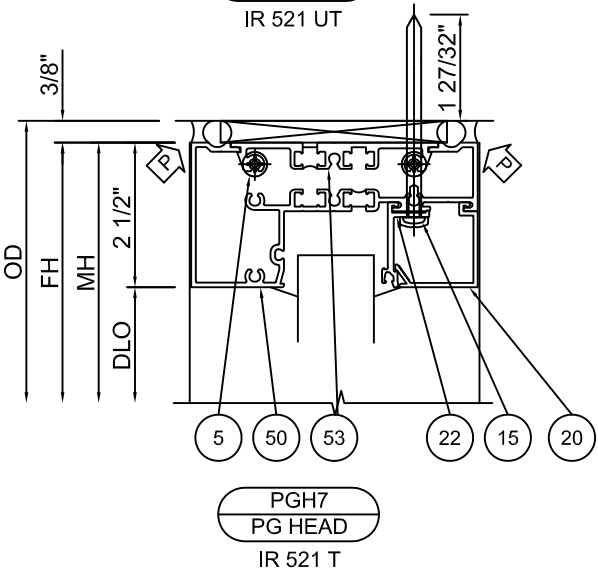
PGH4
PG HEAD
IR 521 UT



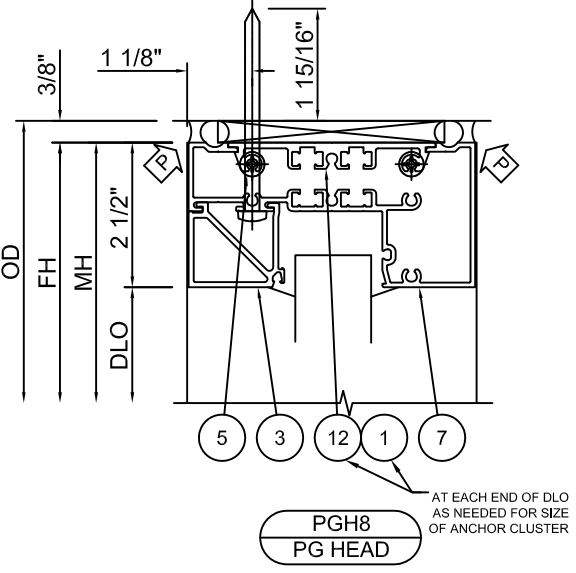
PGH5
PG HEAD
IR 521 NT



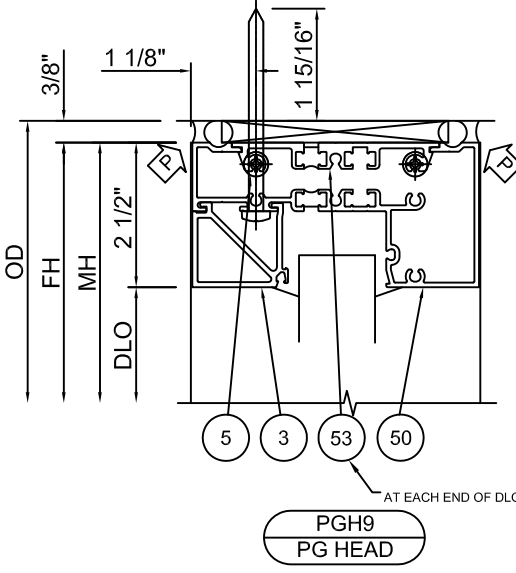
PGH6
PG HEAD
IR 521 NT



PGH7
PG HEAD
IR 521 T



PGH8
PG HEAD
IR 521 NT



PGH9
PG HEAD
IR 521 T



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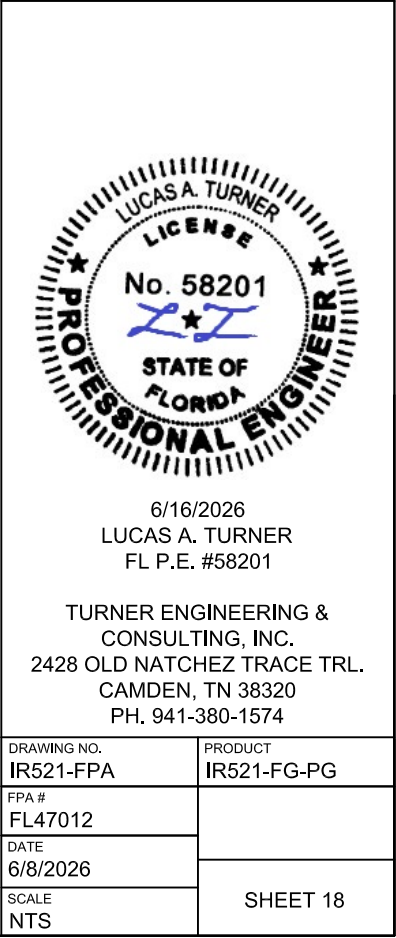
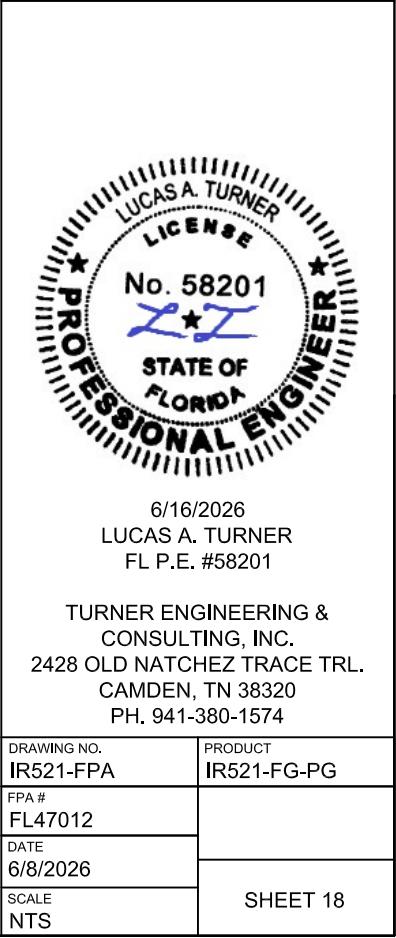
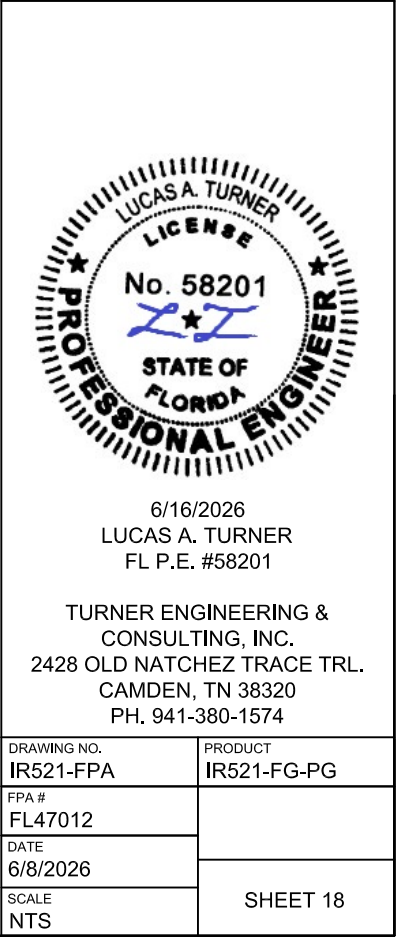
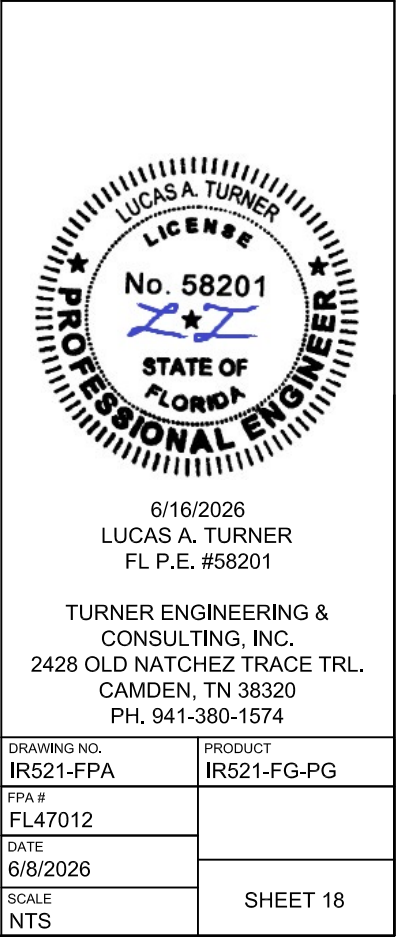
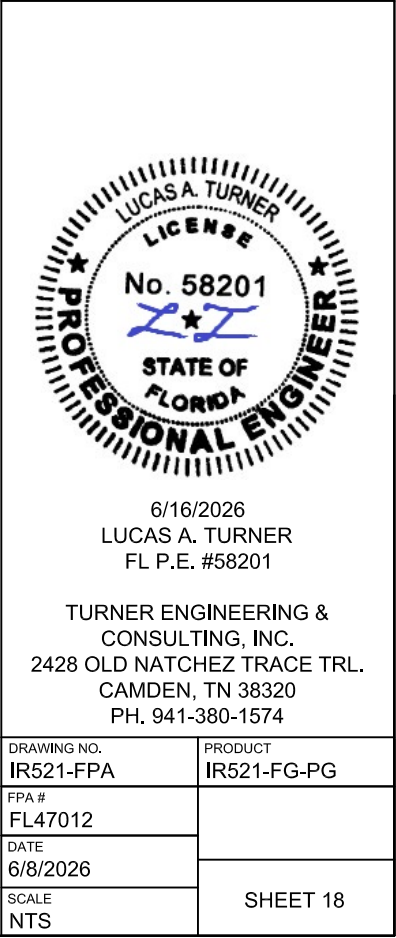
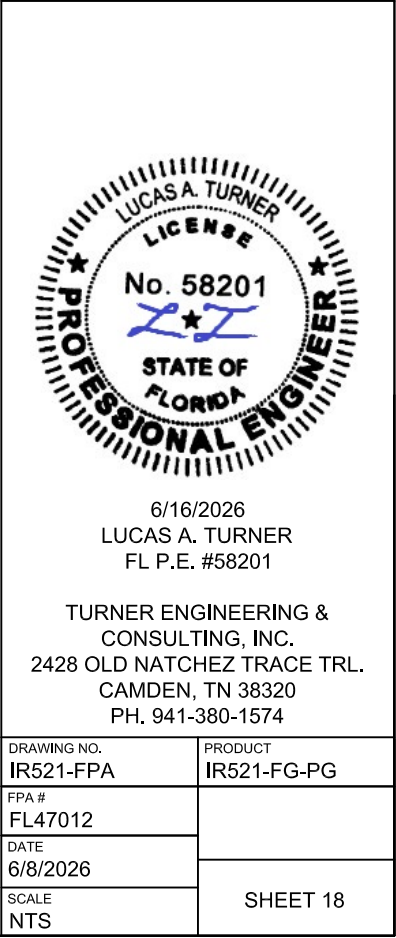
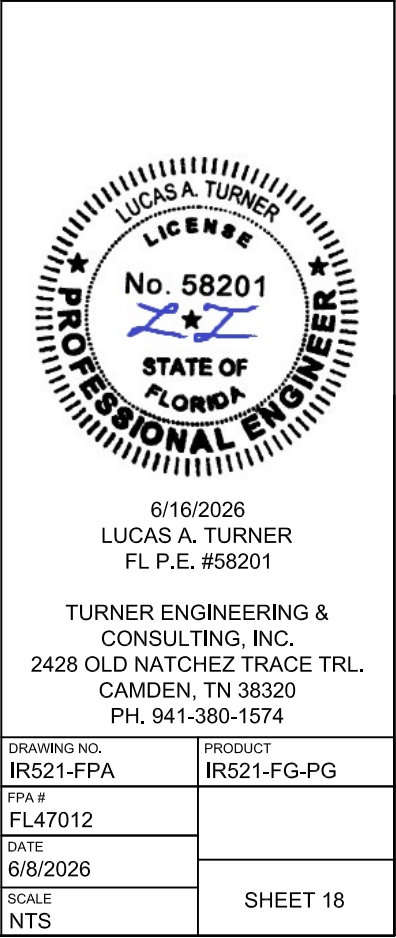
6/16/2026
LUCAS A. TURNER
FL P.E. #58201
TURNER ENGINEERING &
CONSULTING, INC.
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 17

INITIAL RELEASE	-	6/8/2026	
PRINTS ISSUED FOR	REV. #	DATE	

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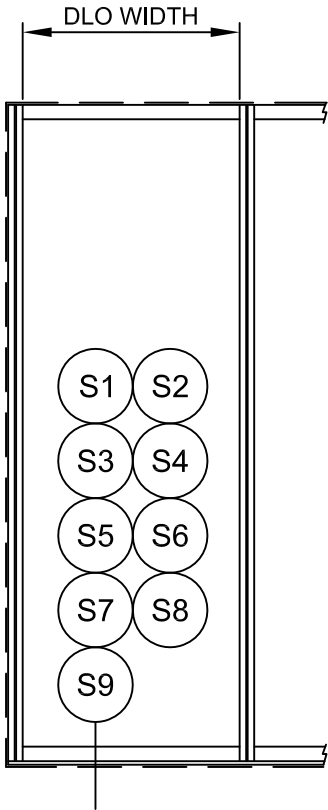


Sill Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Small Missile Level A and
Large Missile Level D Impact Rated

Thermal Type	Detail	Field Glazed			Pre-Glazed	
		DLO Width (in.)			DLO Width	
		33.5	57.5	69.5	33.5	57.5
NT	S1	90.0	90.0	90.0	90.0	-
NT/T	S2	70.0	-	-	70.0	-
NT/T/UT	S3	90.0	90.0	90.0	90.0	-
NT	S4	90.0	90.0	90.0	90.0	50.0
NT/T	S5	70.0	-	-	70.0	-
NT/T/UT	S6	70.0	-	-	90.0	-
NT	S7	70.0	-	-	70.0	70.0
NT/T	S8	60.0	60.0	-	70.0	70.0
NT/T/UT	S9	90.0	90.0	90.0	70.0	70.0

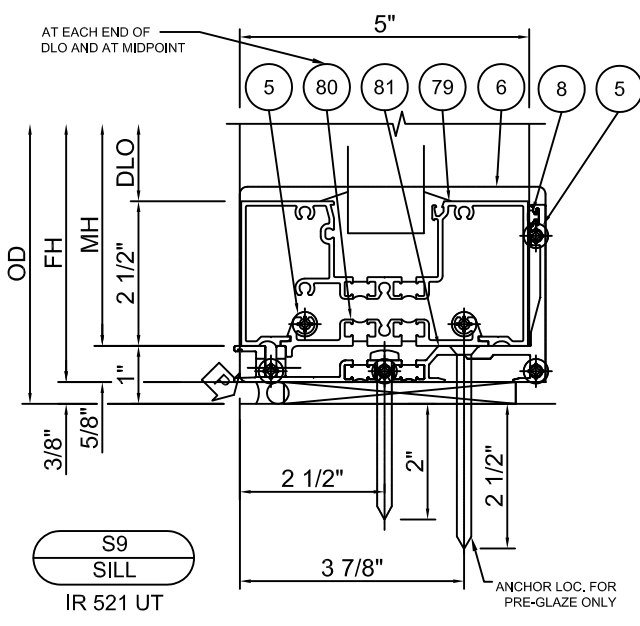
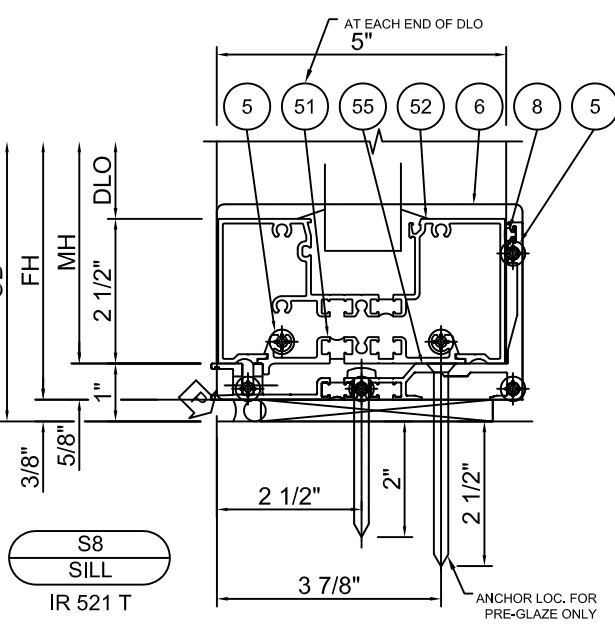
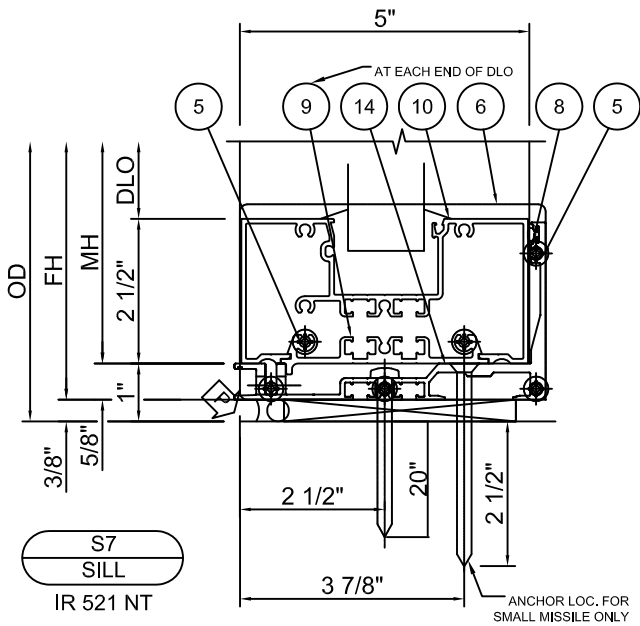
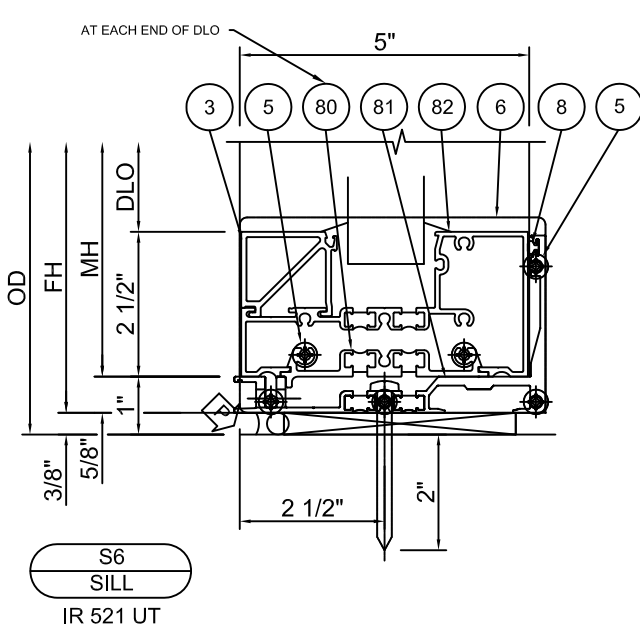
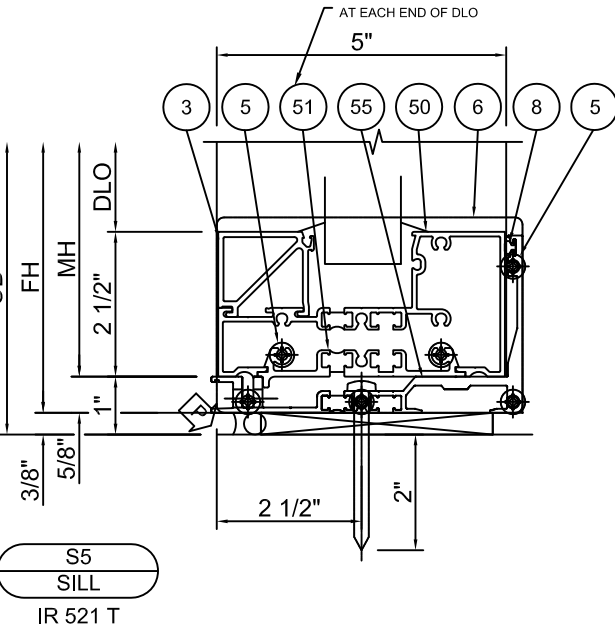
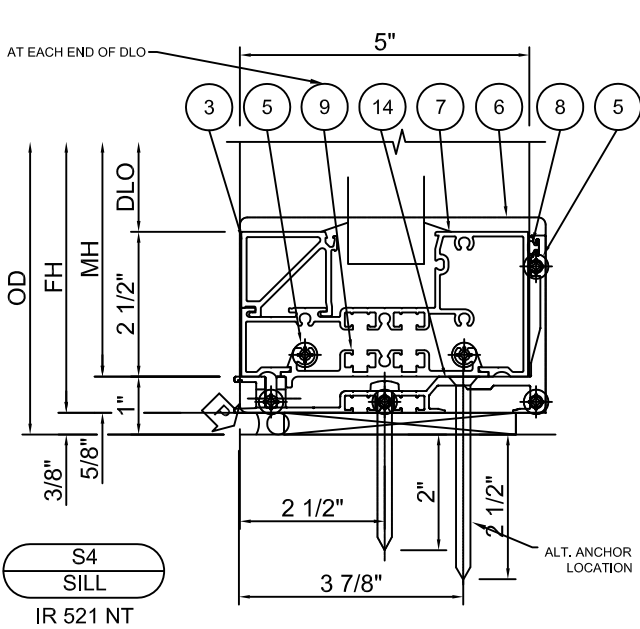
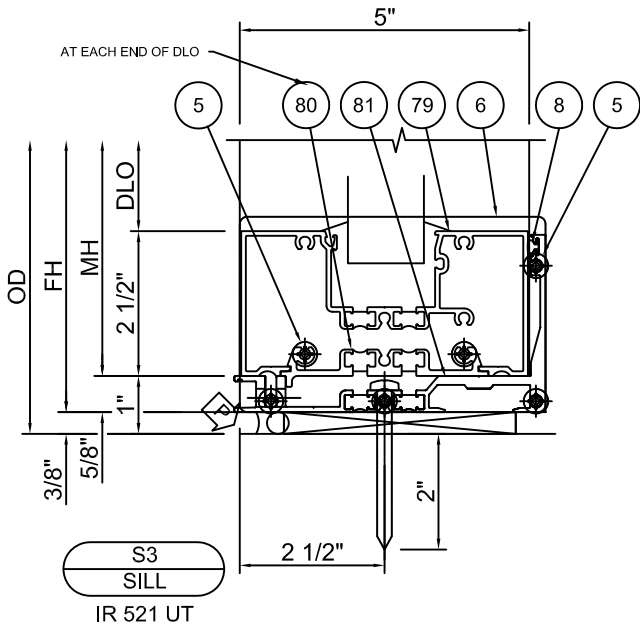
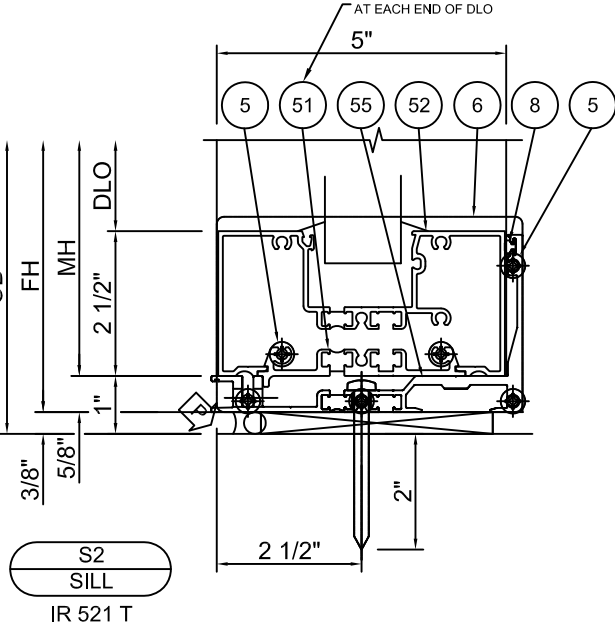
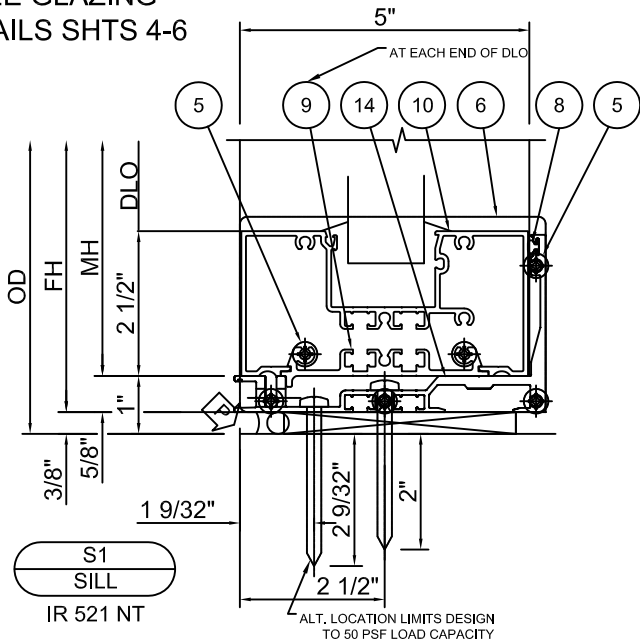
Sill Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Large Missile Level E Impact Rated

Thermal Type	Detail	Field Glazed			Pre-Glazed	
		DLO Width (in.)			DLO Width	
		33.5	57.5	69.5	33.5	57.5
NT/T	S2	70.0	-	-	-	-
NT/T/UT	S3	90.0	90.0	-	-	-
NT/T	S5	70.0	-	-	-	-
NT/T/UT	S6	50.0	-	-	-	-
NT/T	S8	70.0	-	-	70.0	70.0
NT/T/UT	S9	50.0	-	-	-	-

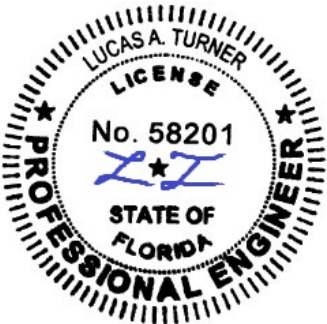


SEE GLAZING
DETAILS SHTS 4-6

SILL OPTIONS



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LUCAS A. TURNER
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TURNER ENGINEERING &
CONSULTING, INC.
2428 OLD NATCHEZ TRACE TRL.
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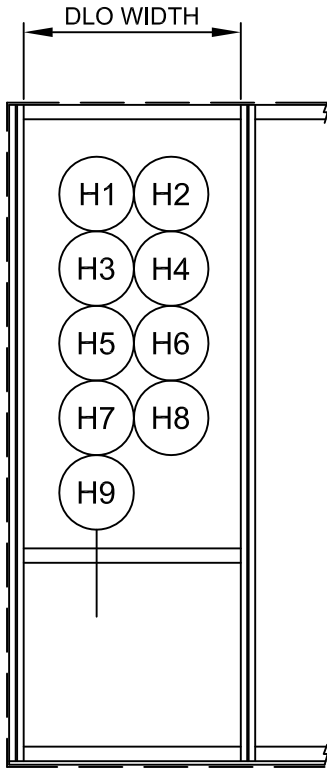
DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 19

Intermediate Horizontal Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Small Missile Level A and
Large Missile Level D Impact Rated

Thermal Type	Detail	Field Glazed			Pre-Glazed	
		DLO Width (in.)			DLO Width	
		33.5	57.5	69.5	33.5	57.5
NT	H1	90.0	90.0	90.0	90.0	-
NT/T	H2	50.0	-	-	70.0	-
NT/T/UT	H3	90.0	90.0	90.0	90.0	-
NT	H4	90.0	90.0	90.0	90.0	-
NT/T	H5	50.0	-	-	70.0	-
NT/T/UT	H6	90.0	90.0	90.0	90.0	-
NT	H7	70.0	-	-	70.0	-
NT/T	H8	50.0	-	-	70.0	-
NT/T/UT	H9	70.0	-	-	70.0	-

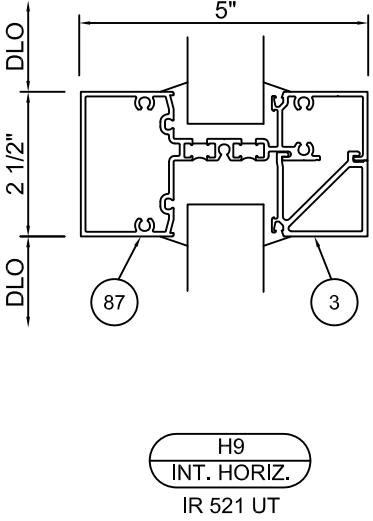
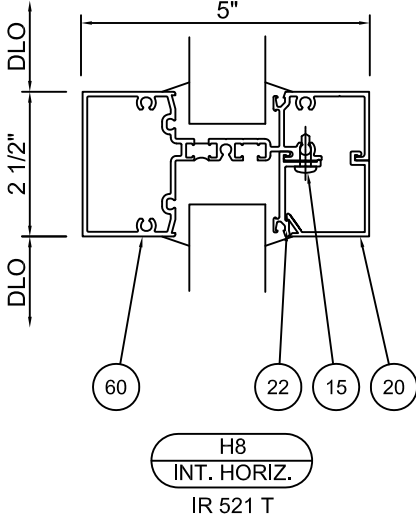
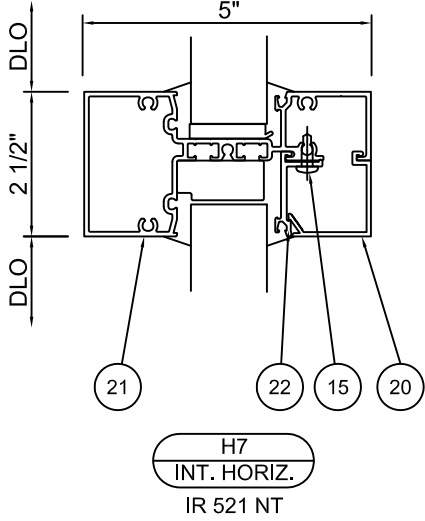
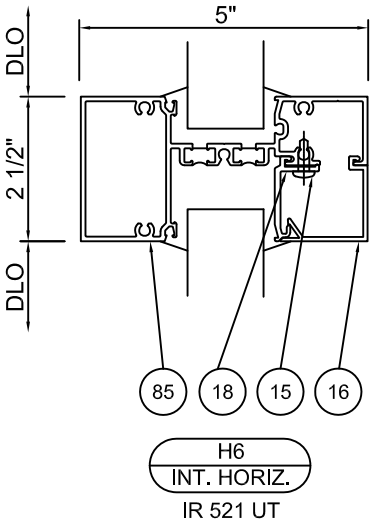
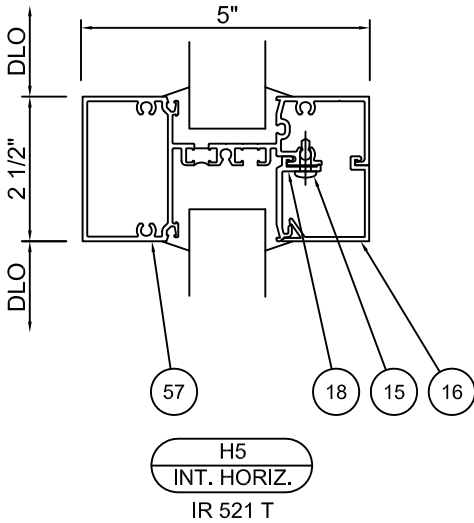
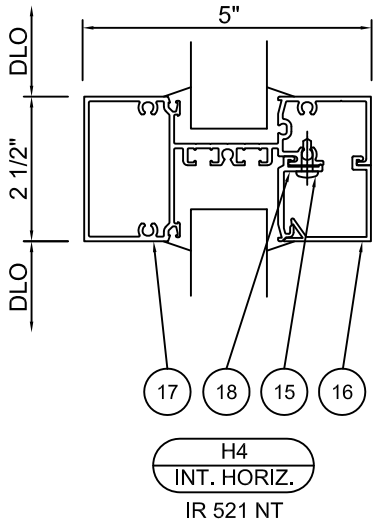
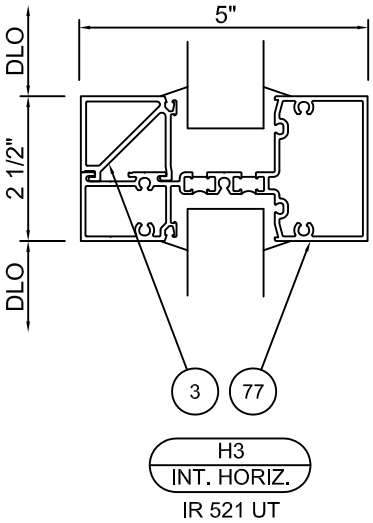
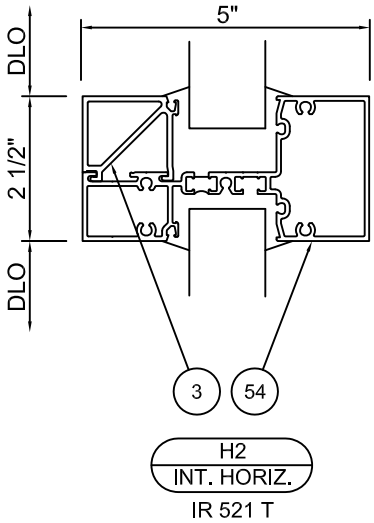
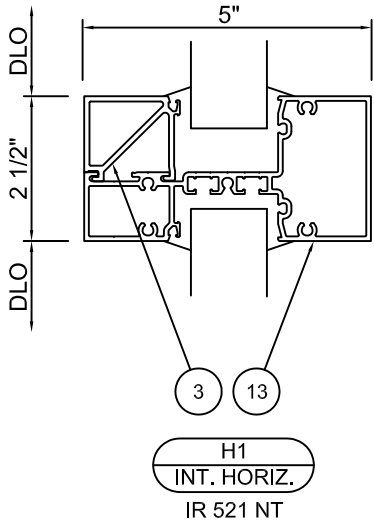
Intermediate Horizontal Load Capacity
[PSF, ASD, Ext. (+) and Int. (-)]
Large Missile Level E Impact Rated

Thermal Type	Detail	Field Glazed		
		DLO Width (in.)		
		33.5	57.5	69.5
NT/T	H2	50.0	-	-
NT/T/UT	H3	90.0	-	-
NT/T	H5	50.0	-	-
NT/T/UT	H6	90.0	-	-
NT/T	H8	50.0	-	-
NT/T/UT	H9	70.0	-	-

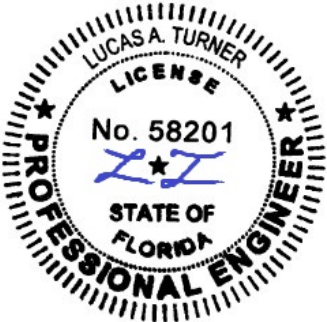


INTERMEDIATE HORIZONTAL OPTIONS

SEE GLAZING
DETAILS SHTS 4-6



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PH. 941-380-1574

DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	SHEET 20
DATE 6/8/2026	
SCALE NTS	

Door Assembly Load Capacity [PSF, ASD, Ext. (+) and Int. (-)]
Field or Pre Glazed
Small Missile Level A and Large Missile Level D Impact Rated

Elevation	Configuration	Max. Door Opening Width	Max. Door Opening Height	Max. Overall Framing Height	Max. Sidelite DLO	Max. Transom DLO	Load Capacity		
							NT	T	UT
D1	Door Pair / Sidelite using Expansion Mull or Stnd Mull Door Jamb,with Transom using Standard Transom Header	96	96	124.125	57.5	23.5	50.0	50.0	50.0
D2	Double Door (w/ Center Common Mullion) with Transom using COC Transom Bar	48	96	124.5	-	22.125	70.0	70.0	70.0
D3	Single Door / Sidelite using Expansion Mull Door Jamb, with Transom using COC Transom Bar	48	96	124.125	48	22.125	70.0	70.0	70.0
D4	Single Door / Sidelite using Stnd. Mull Door Jamb, with Transom using COC Transom Bar	48	96	124.125	48	22.125	70.0	-	-
D5	Single Door / Sidelite using Expansion Mull Door Jamb, with Transom using Standard Transom Header	48	96	124.125	48	23.5	50.0	50.0	50.0
D6	Twin Single Door with Transom Assemblies using COC Transom Bar, Mulled with Full Height Common Mullion	48	96	124.5	-	22.125	70.0	70.0	70.0

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STATE OF FLORIDA

PROFESSIONAL ENGINEER

6/16/2026

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PRODUCT

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FPA #

FL47012

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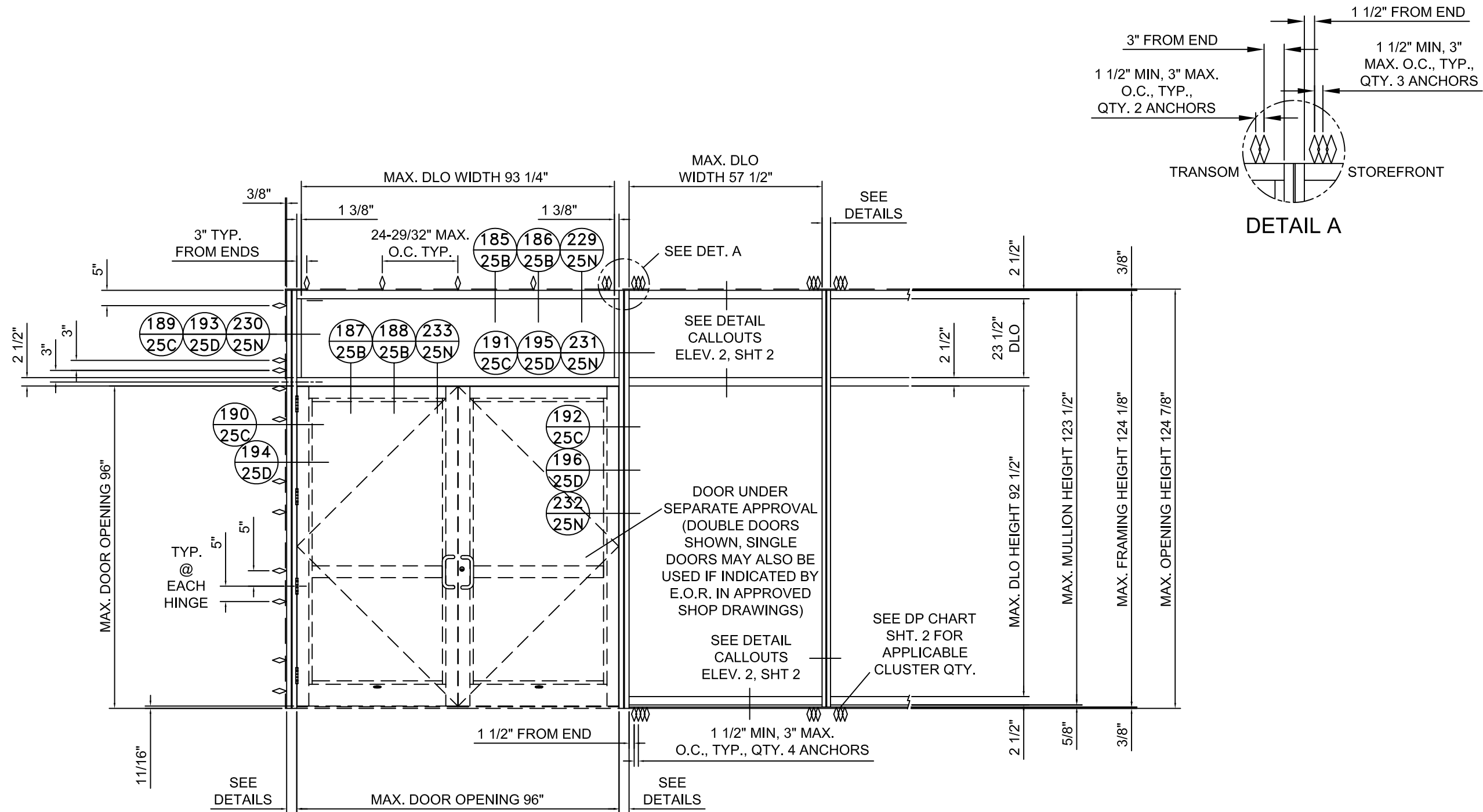
SCALE

NTS

SHEET 21

SAMPLE ELEVATIONS

NOTE: SECTION CALLOUTS REPRESENT SAMPLES OF NT, T, AND UT FRAMING, SEE DP CHART FOR ALL ALLOWABLE FRAMING TYPES.

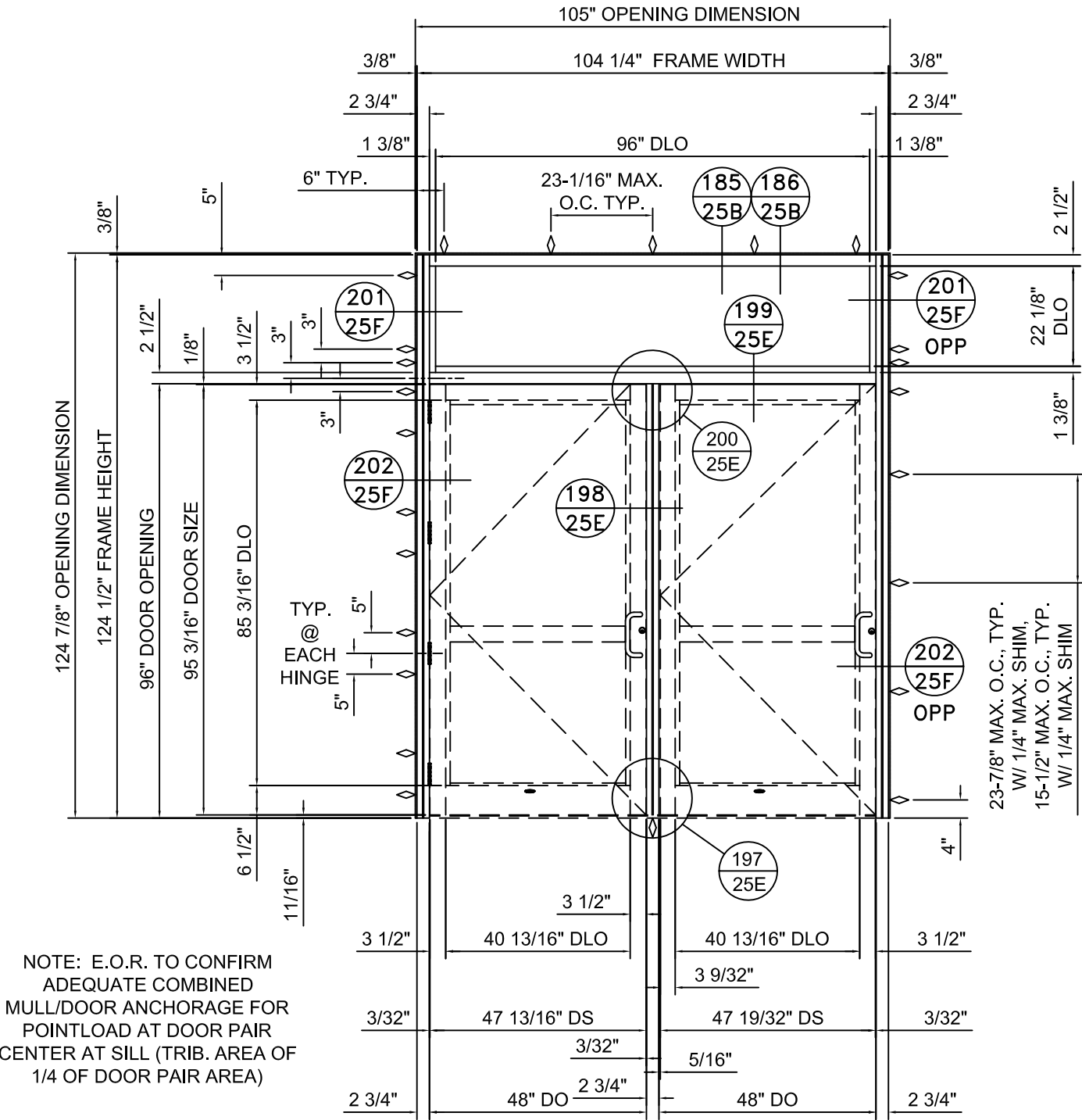


SAMPLE DOOR ELEVATION D1

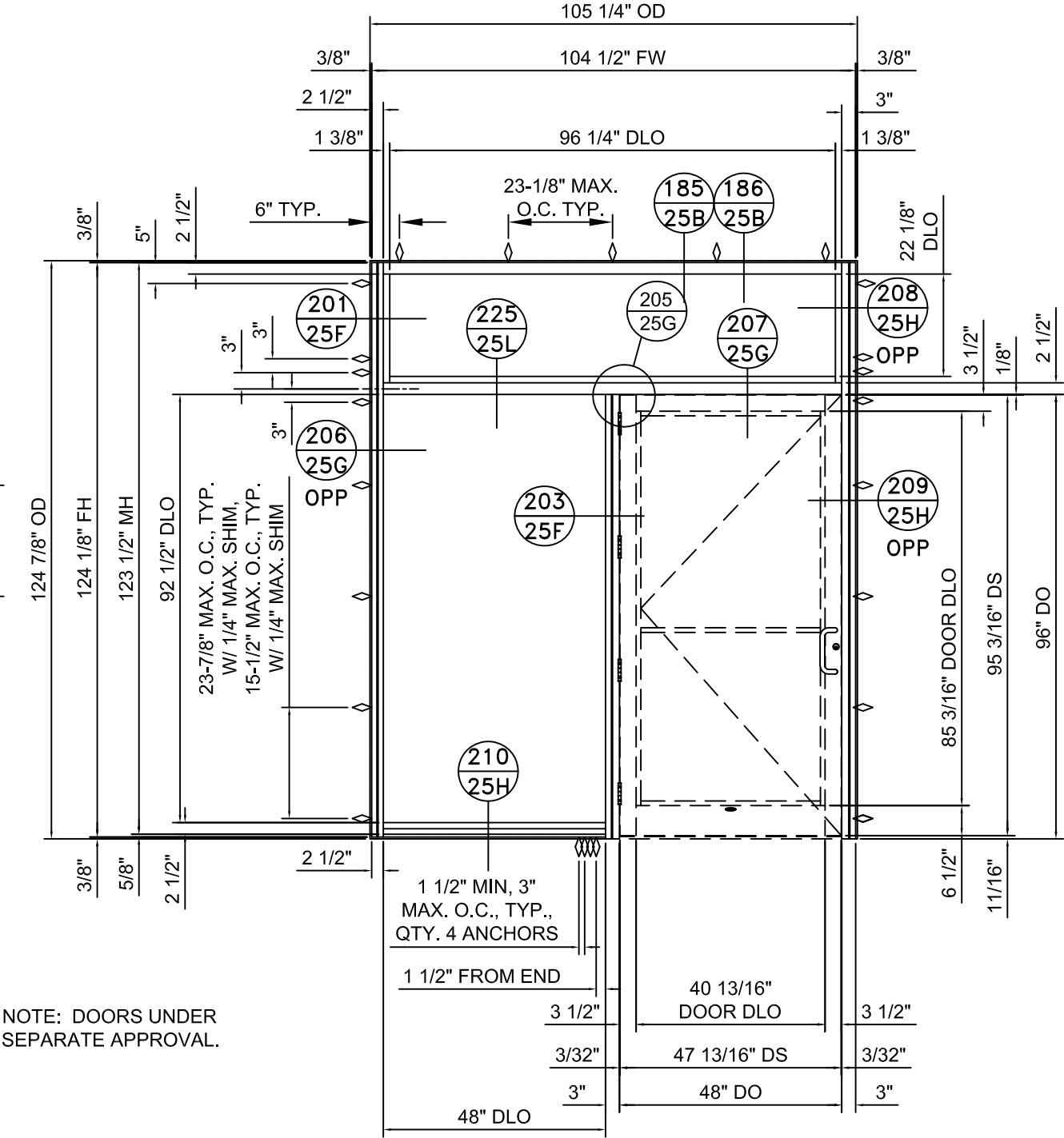
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SAMPLE ELEVATIONS

NOTE: SECTION CALLOUTS REPRESENT SAMPLES OF NT, T, AND UT FRAMING, SEE DP CHART FOR ALL ALLOWABLE FRAMING TYPES.



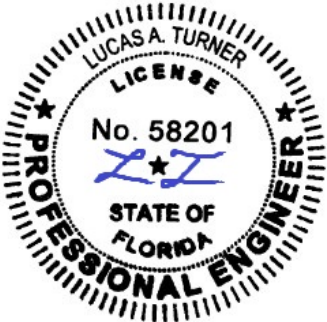
SAMPLE DOOR ELEVATION D2



SAMPLE DOOR ELEVATION D3



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FPA # FL47012	
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SCALE NTS	SHEET 23

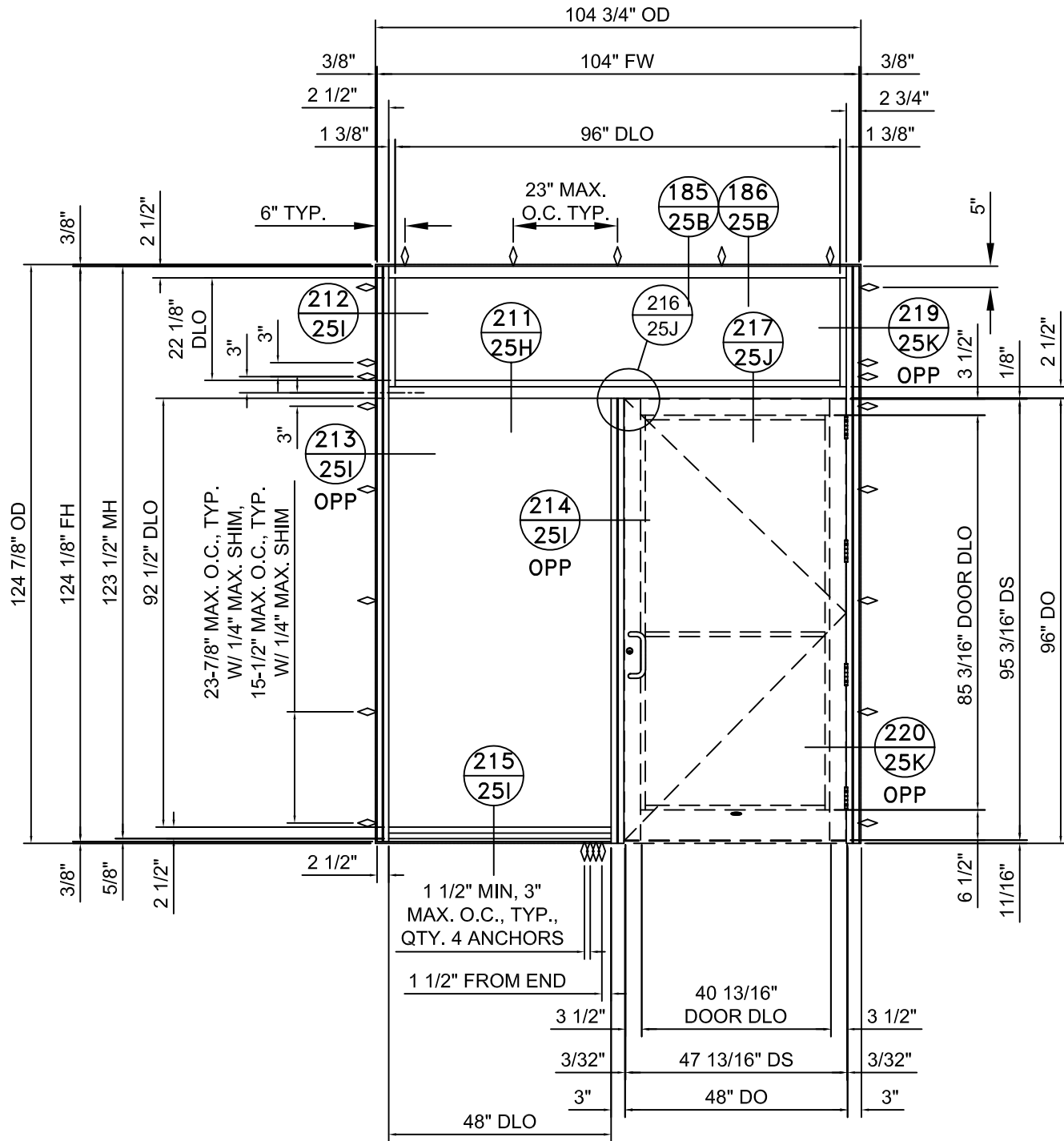
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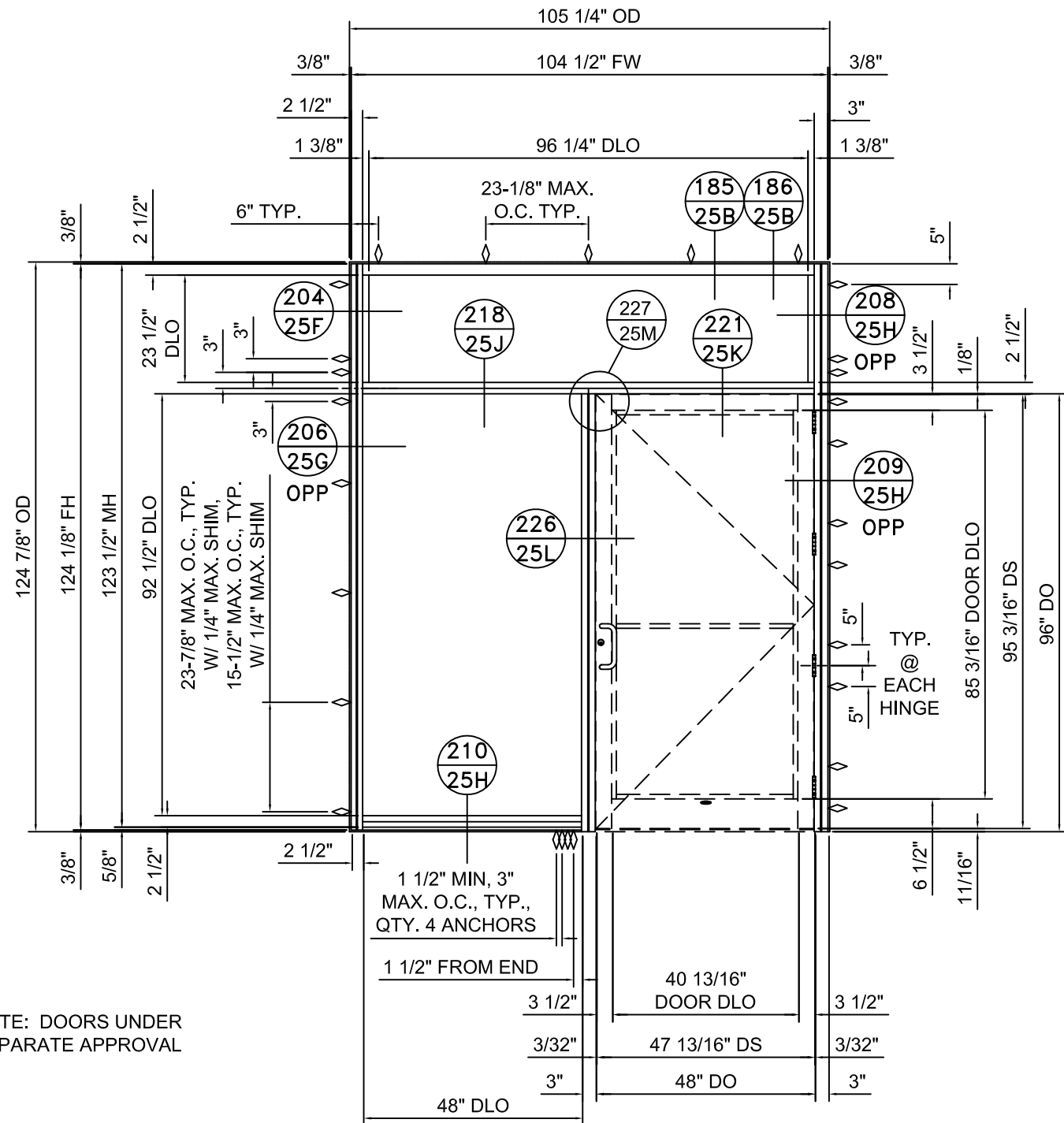
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SAMPLE ELEVATIONS

NOTE: SECTION CALLOUTS REPRESENT SAMPLES OF NT, T, AND UT FRAMING, SEE DP CHART FOR ALL ALLOWABLE FRAMING TYPES.



SAMPLE DOOR ELEVATION D4

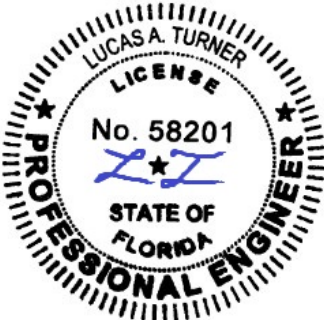


NOTE: DOORS UNDER
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SAMPLE DOOR ELEVATION D5



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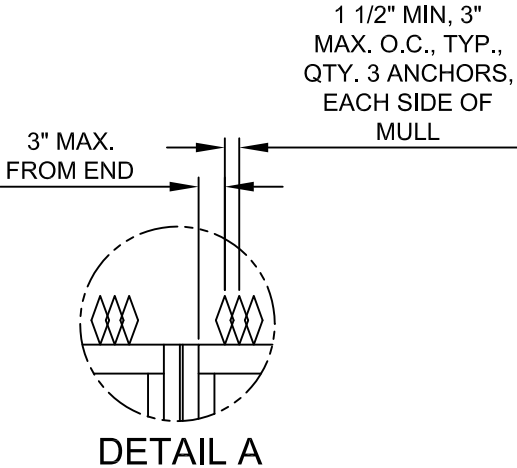
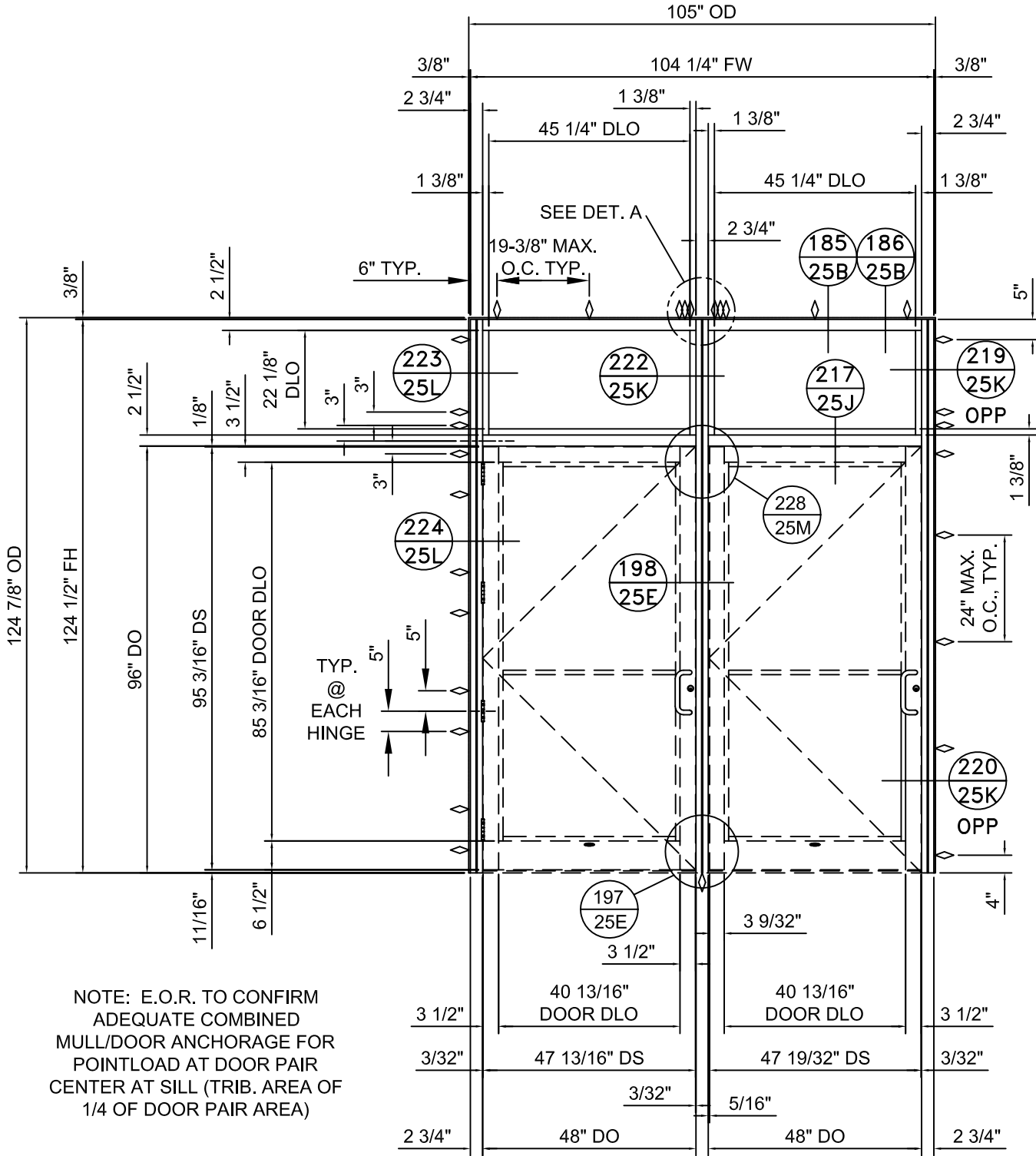
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FPA # FL47012	
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SCALE NTS	SHEET 24

SAMPLE ELEVATIONS

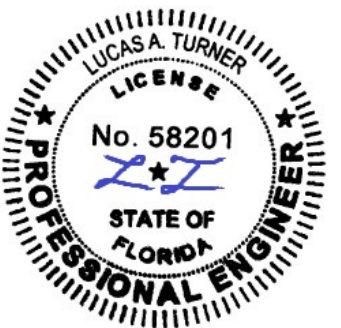
NOTE: SECTION CALLOUTS REPRESENT SAMPLES OF NT, T, AND UT FRAMING, SEE DP CHART FOR ALL ALLOWABLE FRAMING TYPES.



NOTE: DOORS UNDER
SEPARATE APPROVAL

SAMPLE DOOR ELEVATION D1

NOTE: E.O.R. TO CONFIRM
ADEQUATE COMBINED
MULL/DOOR ANCHORAGE FOR
POINTLOAD AT DOOR PAIR
CENTER AT SILL (TRIB. AREA OF
1/4 OF DOOR PAIR AREA)



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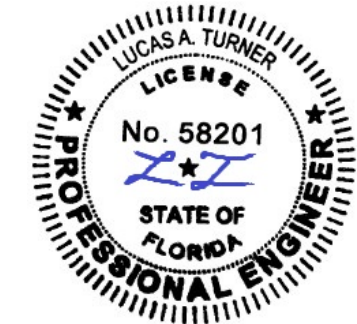
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DOOR/TRANSOM/SIDELITE FRAMING BILL OF MATERIALS (DOOR COMPONENTS FOR REFERENCE ONLY, SEE SEPARATE APPROVAL FOR DOORS)

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
201	575209	SILL FLASHING END CAP	242	521TCG218	2-1/4" DOOR JAMB WITH FIN
202	128267	FASTENER	243	521TCG125	THERMAL POCKET FILLER
203	521UTCG001	HEAD/SILL HORIZONTAL	244	028693	FASTENER
204	575UT216	6" LONG THERMAL FILLER	245	521239	LH CRIPPLE CONNECTION SHEAR BLOCK
205	521CG404	GLASS STOP	246	521241	COMMON MULLION ANCHOR
206	521UT365	9" SILL FLASHING CLIP	247	028350	FASTENER
207	521UTCG301	HEAD/SILL HORIZONTAL	248	049896	THRESHOLD TO JAMB CLIP
208	521UTVG037	SILL FLASHING	249	521CG064	COMMON MULLION
209	521205	END DAM	250	521CG264	COMMON MULLION INTERIOR COVER
210	127043	WEATHERING	251		BOTTOM DOOR RAIL
211	521UTCG011	INTERMEDIATE OG HORIZONTAL	252	521CG320	NON THERMAL STANDARD TRANSOM HEADER W/OUT FIN
212		BOTTOM DOOR RAIL	253		TOP DOOR RAIL
213		DOOR THRESHOLD	254	521CG011	INTERMEDIATE OG HORIZONTAL
214	028383	1-1/2" PLASTIC SCREW ANCHOR	255	521CG301	HEAD/SILL HORIZONTAL
215	028201	FASTENER	256	521365	SILL FLASHING CLIP
216		TOP DOOR RAIL	257	521VG037	SILL FLASHING
217	069177	DOOR STOP ASSEMBLY	258	521CG001	HEAD/SILL HORIZONTAL
218	028260	FASTENER	259	575216	6" LONG NON-P&D FILLER
219	027413	WEATHERING FOR THERMAL DOOR	260	521CG022	TRANSOM ADAPTOR
220	521TCG521	2-1/4" STANDARD TRANSOM HEAD WITHOUT FIN	261	521CG318	NON THERMAL 1-3/4" - 2" JAMB WITHOUT FIN
221	184386	SSG HORIZONTAL J PLUG	262	521CG019	NON THERMAL DEEP POCKET JAMB FILLER
222	027806	FIXED GASKET	263		DOOR LOCK / PIVOT STILE
223	521CG027	TRANSOM GLASS STOP	264		DOOR ACTIVE STILE
224	521TCG022	TRANSOM ADAPTOR THERMAL	265		DOOR INACTIVE STILE
225	128934	FASTENER	266	521549	COC B/H SHEAR BLOCK PACKAGE
226	521UTCG610	UT DP LW FEMALE DOOR JAMB	267	521CG079	COC TRANSOM BAR
227	521TCG518	2-1/4" DOOR JAMB WITHOUT FIN	268	521CG041	LW JAMB
228		LOCK / PIVOT DOOR STILE	269	521547	COMMON MULLION COC T-BAR SHEAR BLOCK PACKAGE
229	128910	FASTENER	270		DOOR CONTINUOUS HINGE STILE
230	521540	CRIPPLE CONNECTION HEADER SHEAR BLOCK PACKAGE	271	575300	STEEL REINFORCEMENT
231	521TCG033	CRIPPLE JAMB SIDE LITE GLASS POCKET FILLER	272	028268	FASTENER
232	521TCG079	COC TRANSOM HEAD	273	128387	FASTENER
233	521551	CRIPPLE COC B/H SHEAR BLOCK PACKAGE	274	521CG033	NT CRIPPLE JAMB GLASS POCKET FILLER
234	027078	BULB DOOR WEATHERING	275	521CG125	NT POCKET FILLER
235	041045	DOOR STOP	276	521CG018	NON THERMAL 1-3/4" JAMB WITH FIN
236	028336	FASTENER	277		DOOR LOCK / PIVOT STILE
237	521UTCG041	LW JAMB	278		TOP DOOR RAIL
238	200496	STANDARD ADJUSTABLE ASTRAGAL	279		DOOR ACTIVE STILE
239	128439	ADJUSTING SCREW ASTRAGAL	280		DOOR INACTIVE STILE
240		DOOR ACTIVE STILE	281	521545	COMMON MULLION HEAD SHEAR BLOCK PACKAGE
241		DOOR INACTIVE STILE	282	521548	COC O/P SHEAR BLOCK PACKAGE
			283	128286	FASTENER 1/4-20 X 3/4 FHMS, STNLS STEEL
			284	521548	STEEL REINF. 0.250X4.000

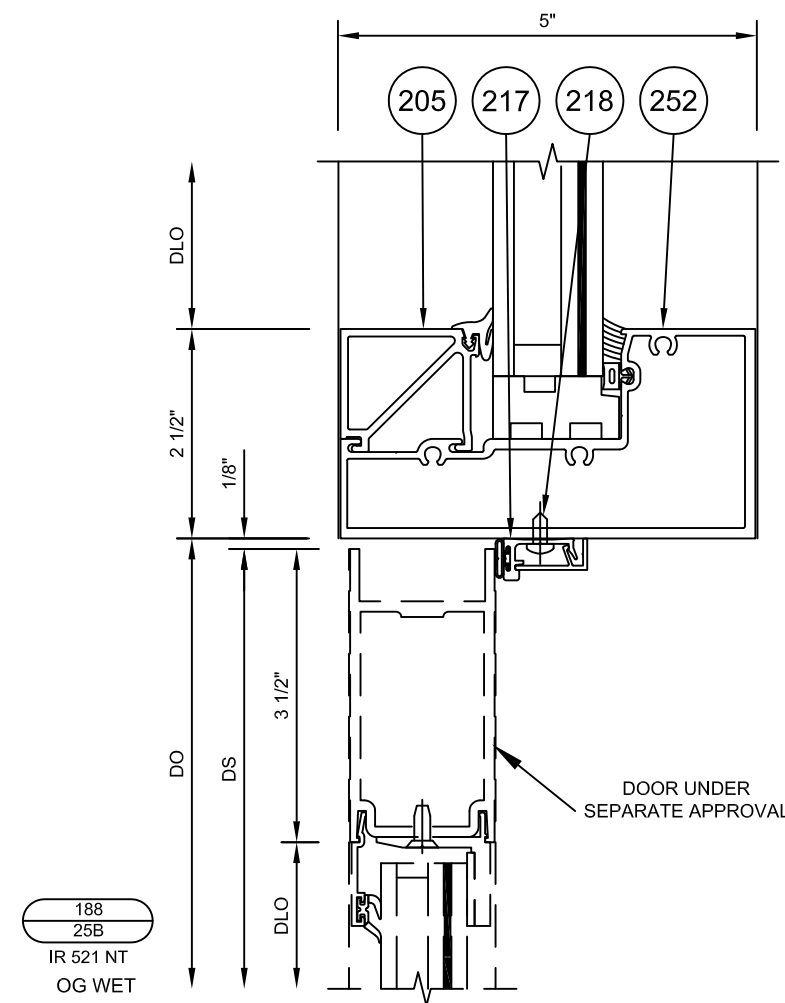
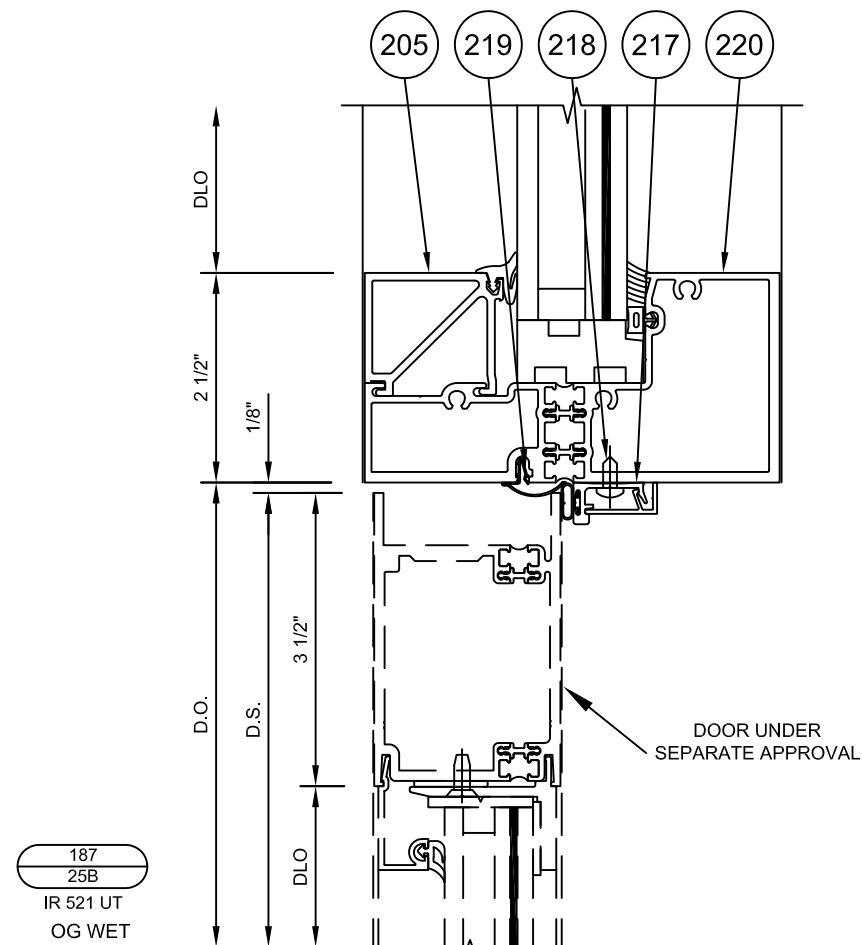
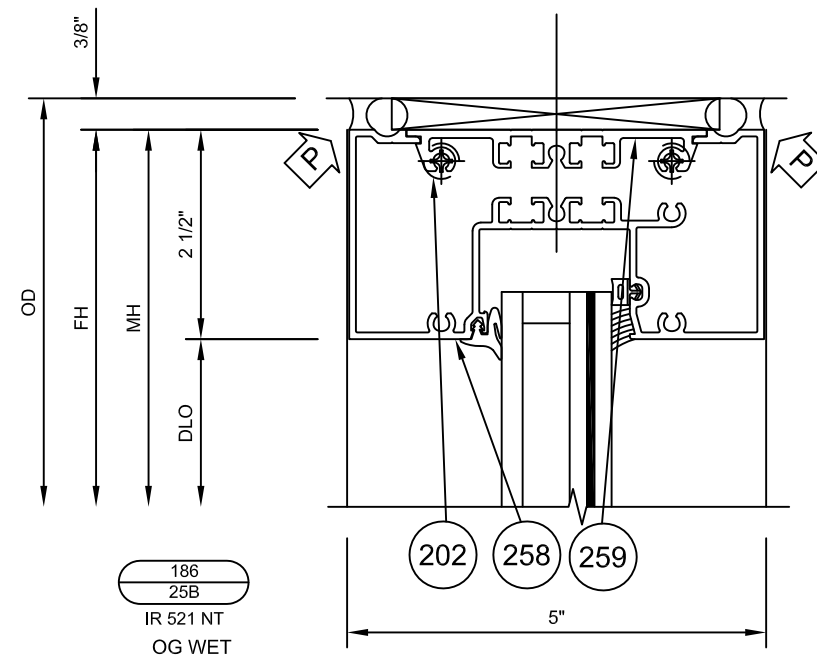
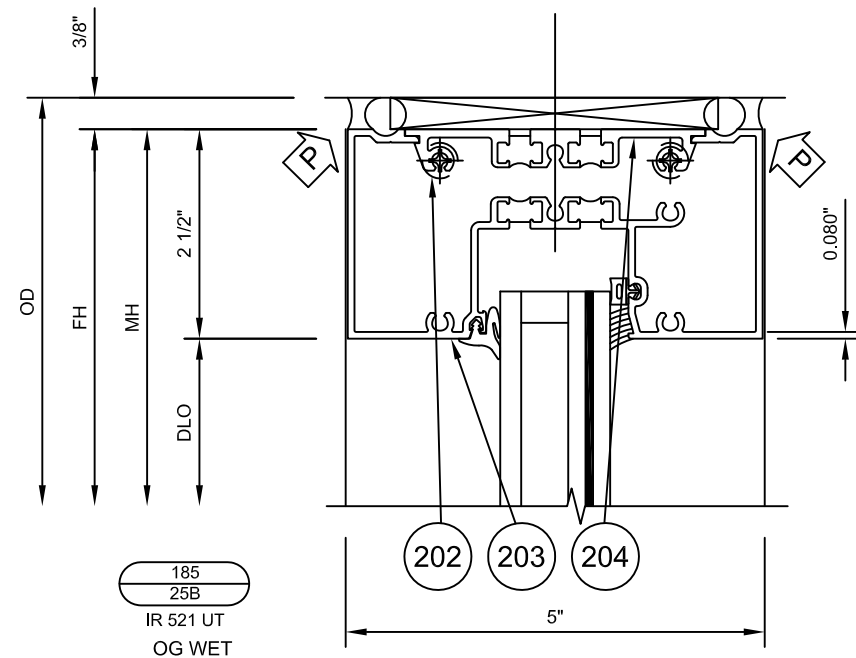
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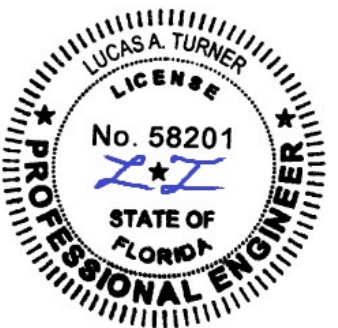
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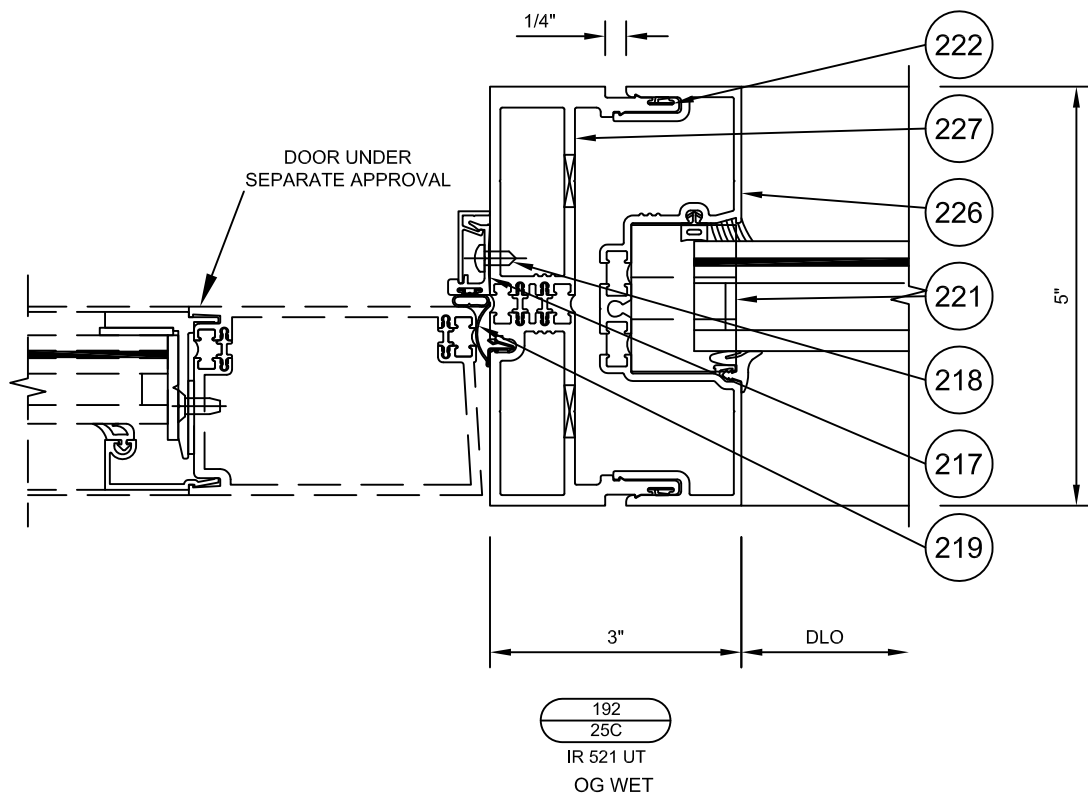
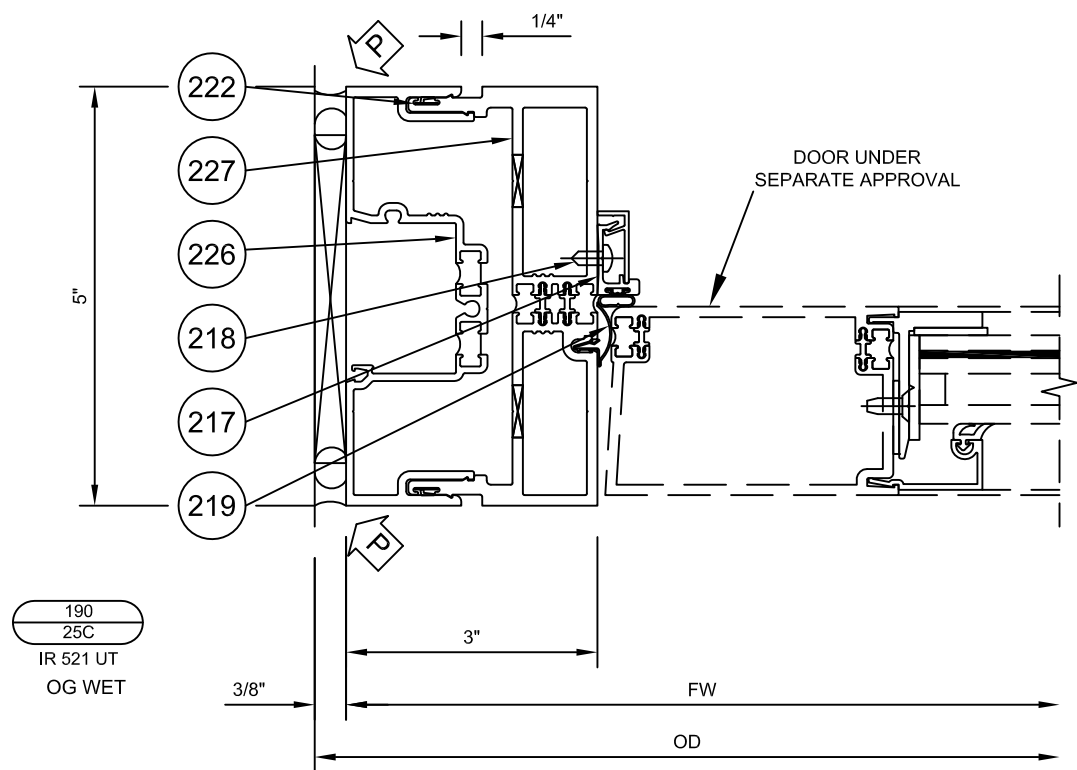
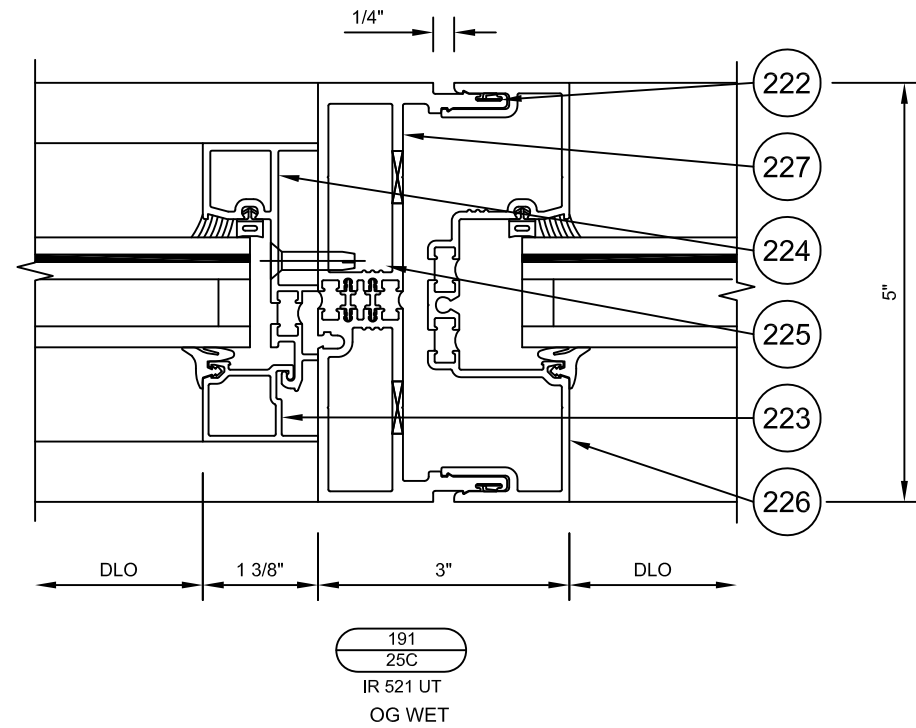
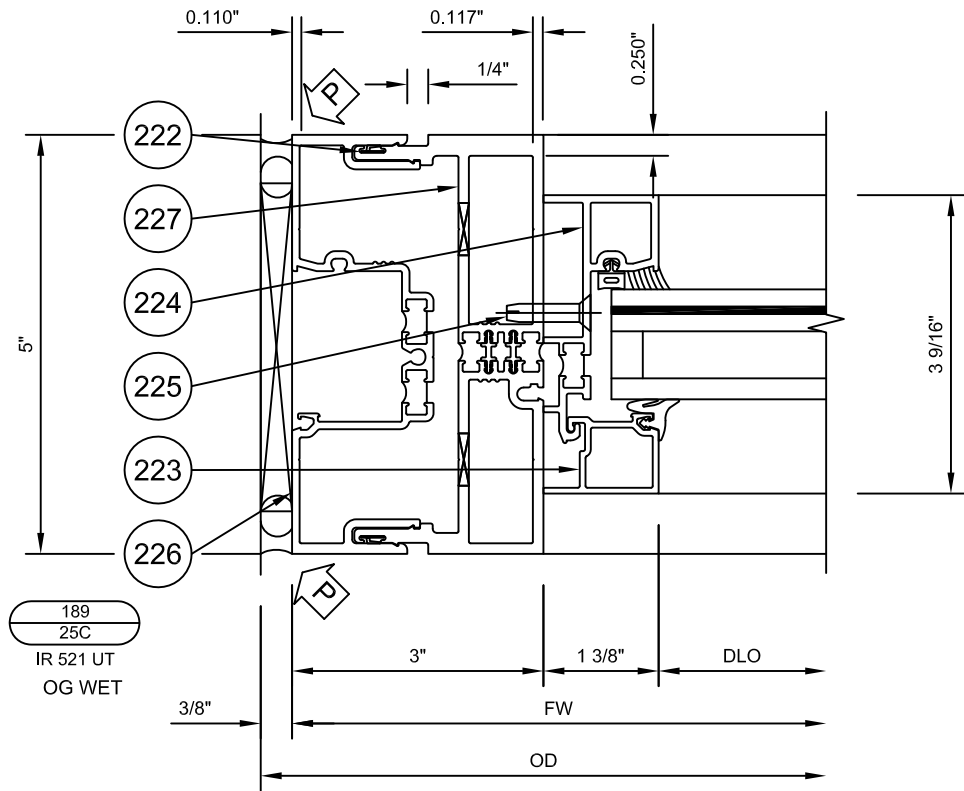
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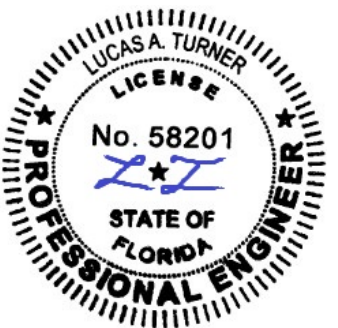
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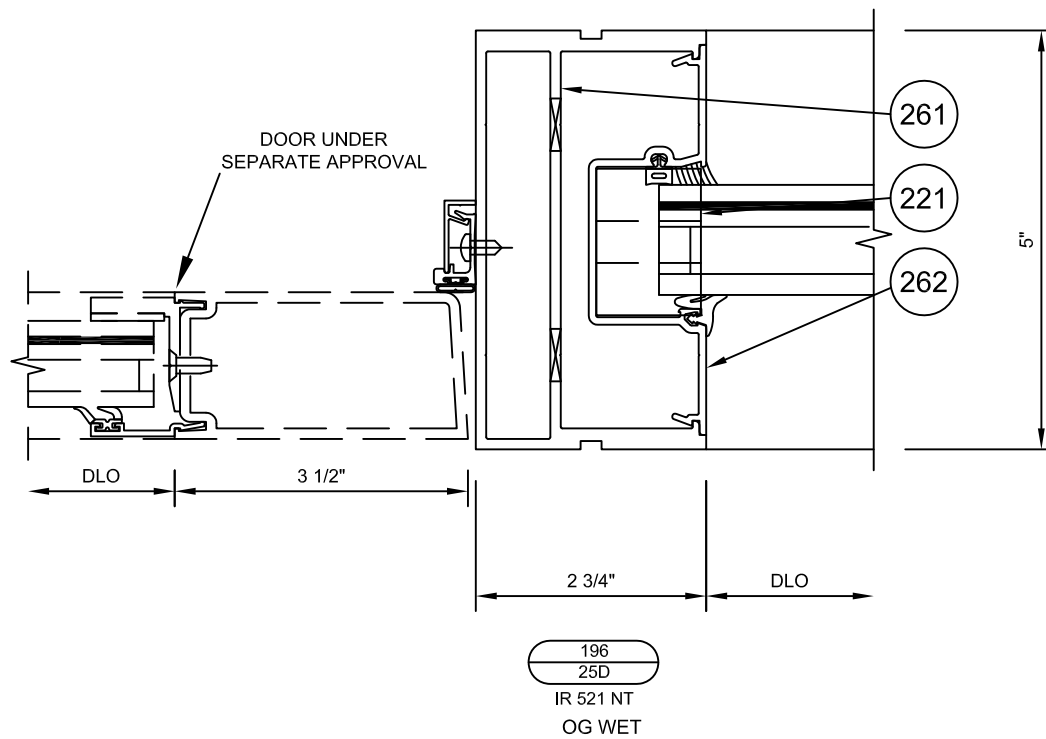
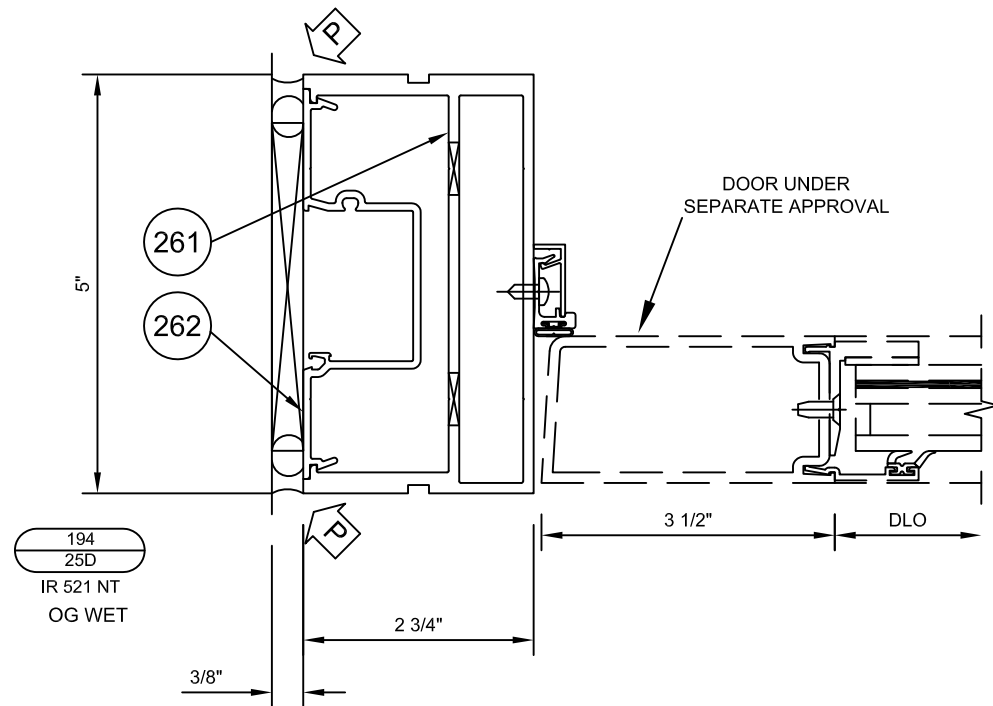
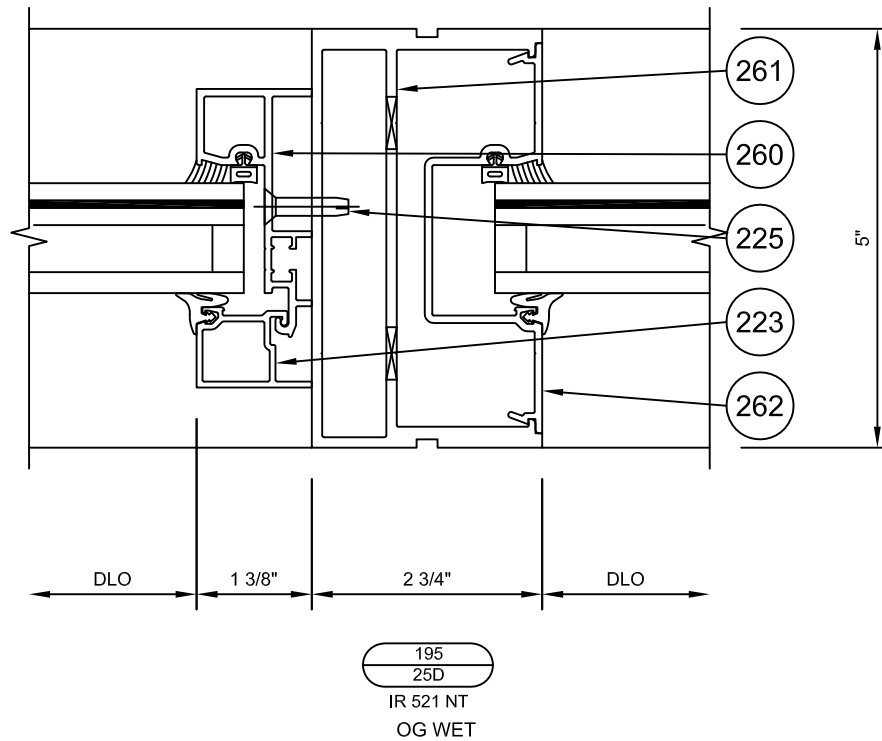
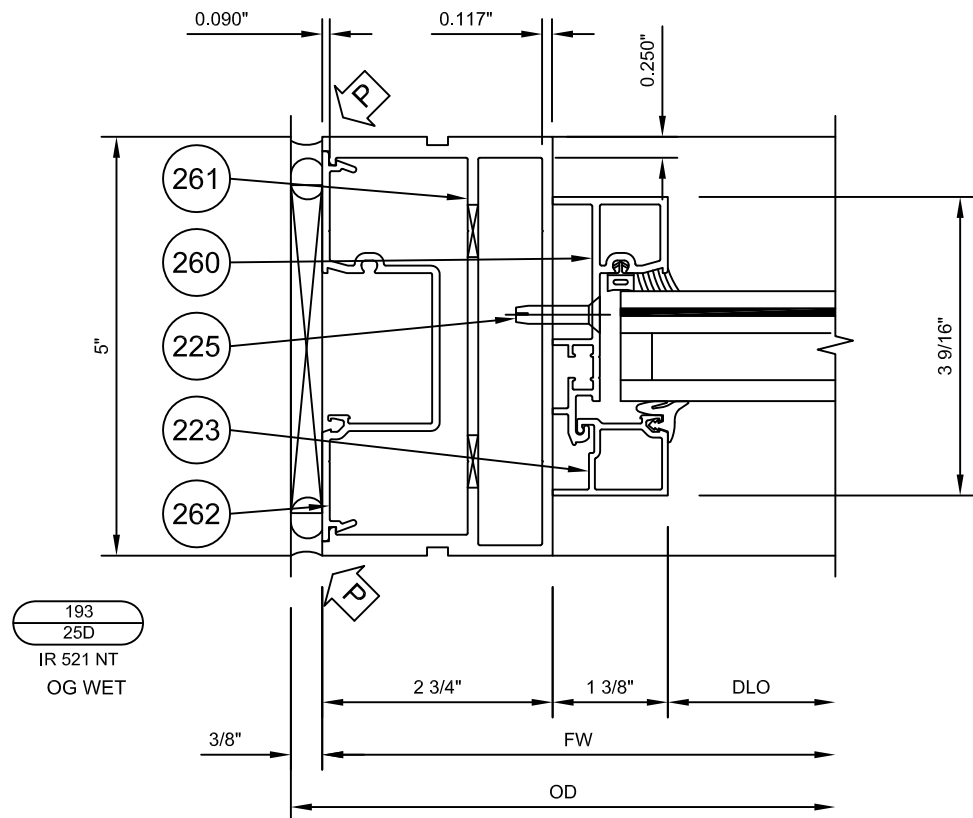
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FPA #
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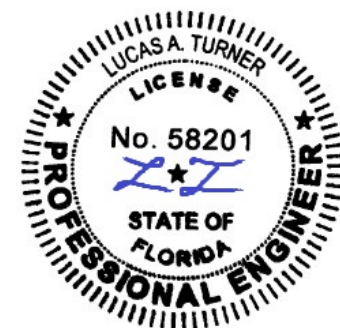
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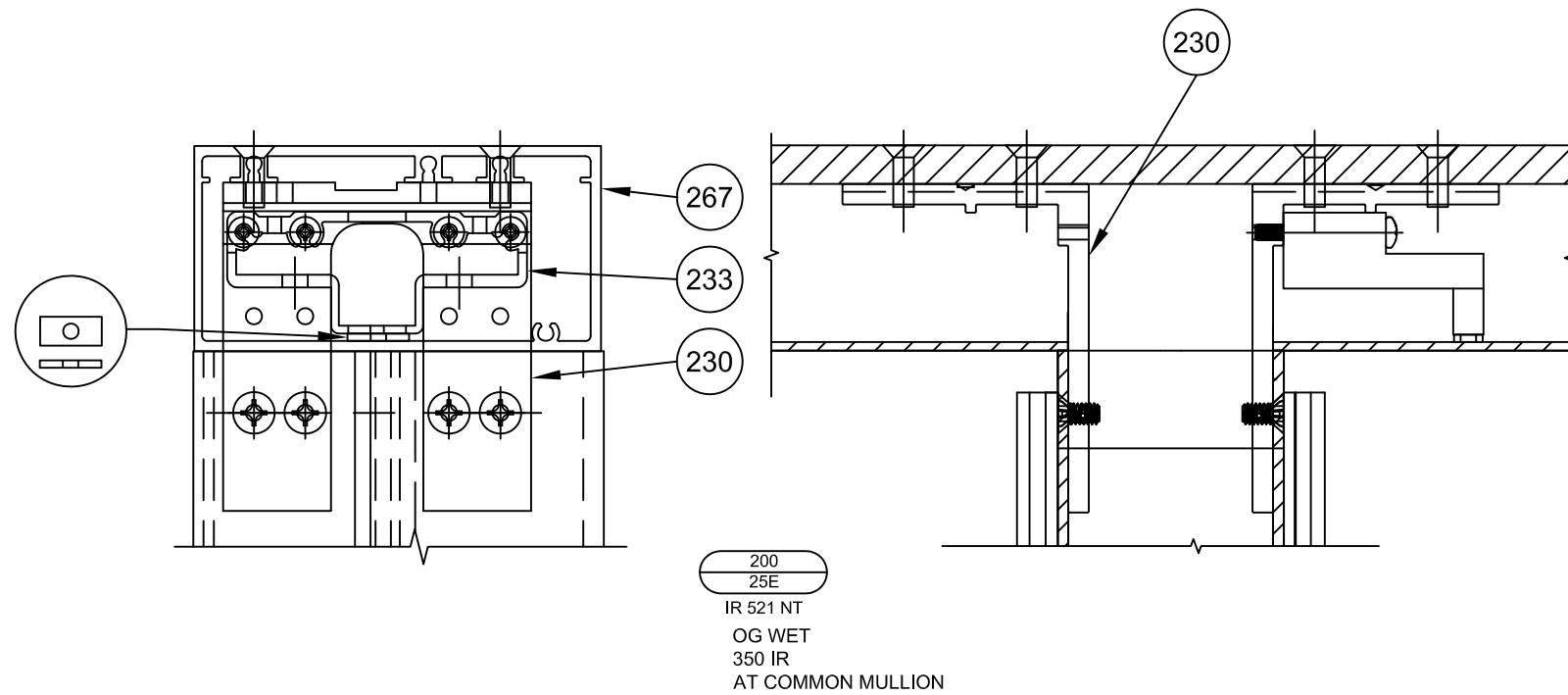
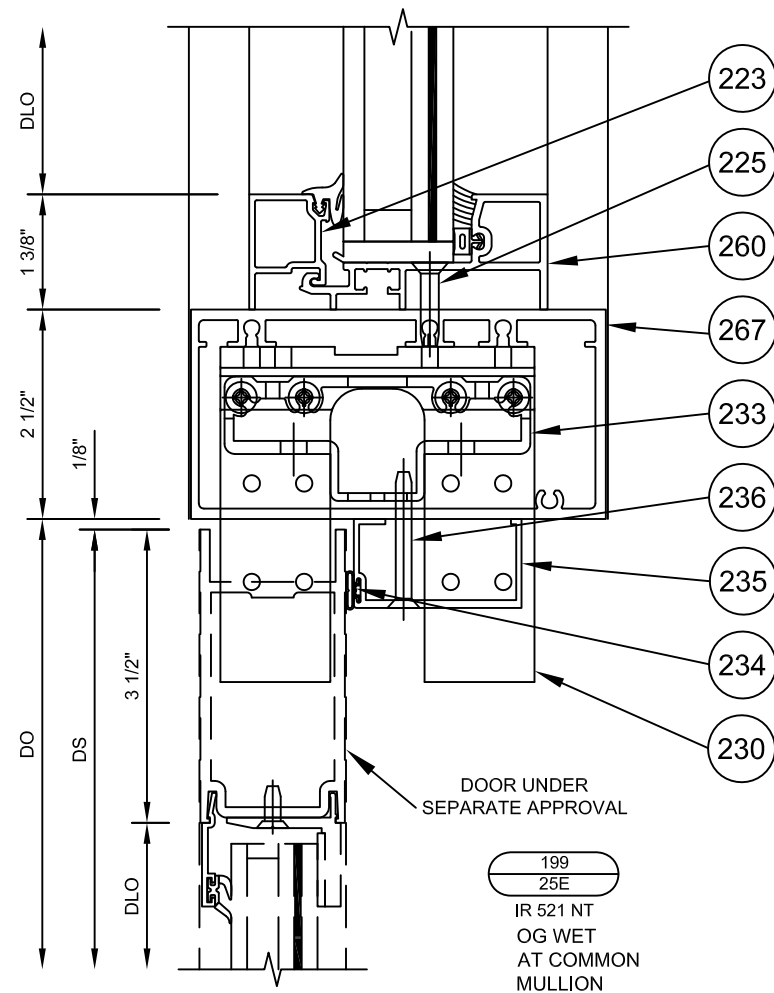
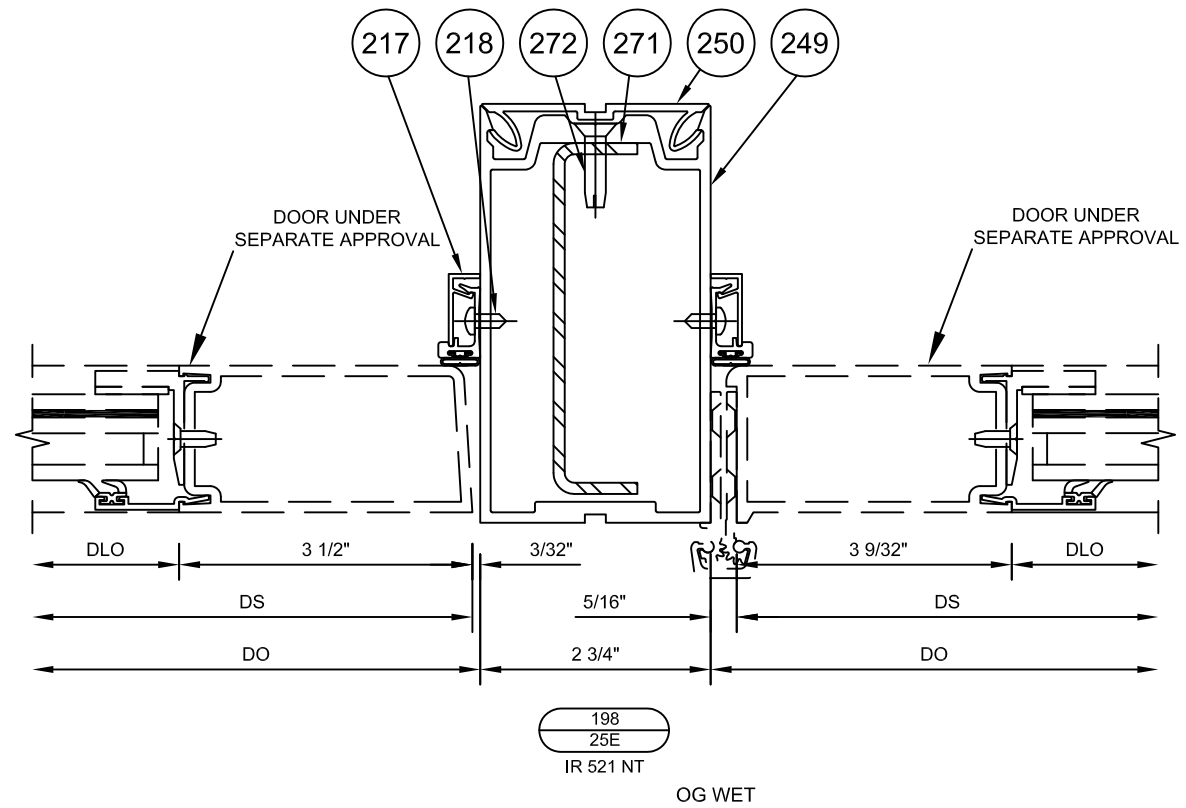
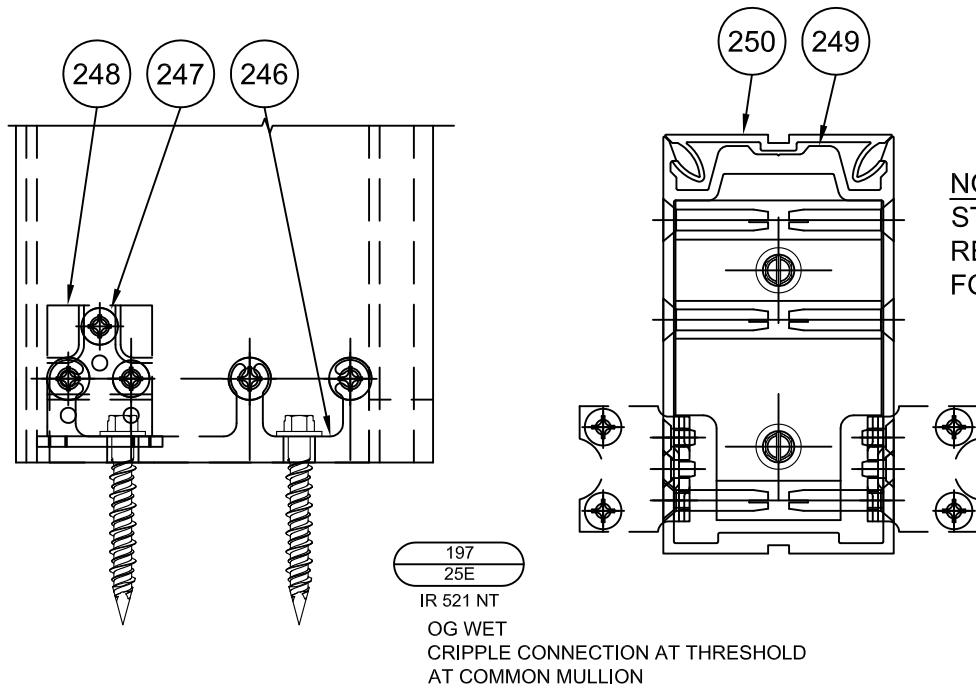
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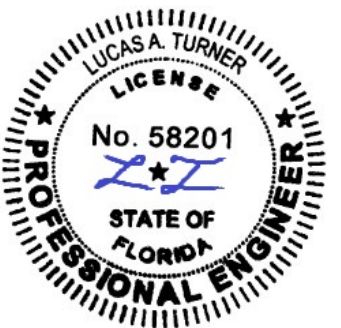
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IR521-FG-PG

SHEET 25D

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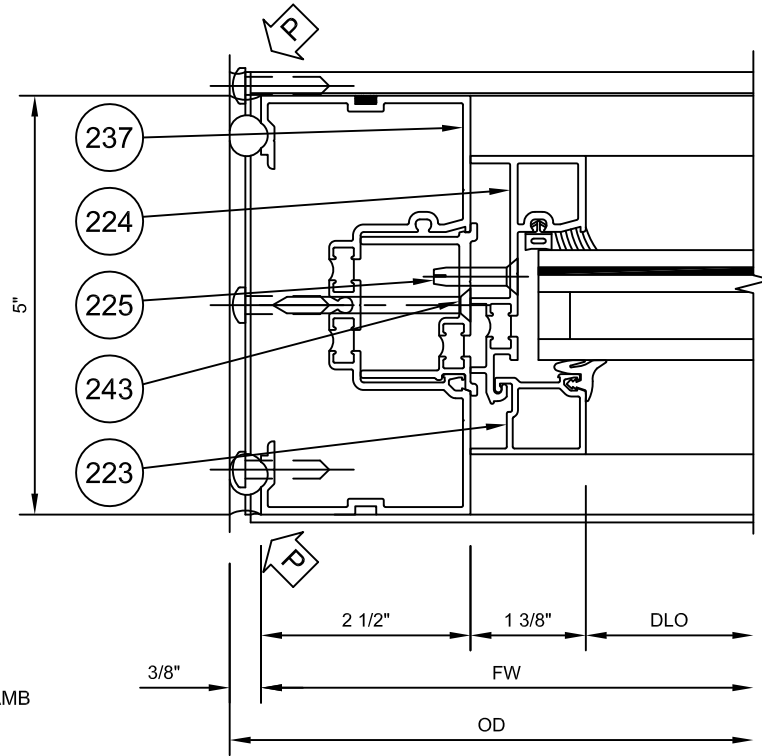
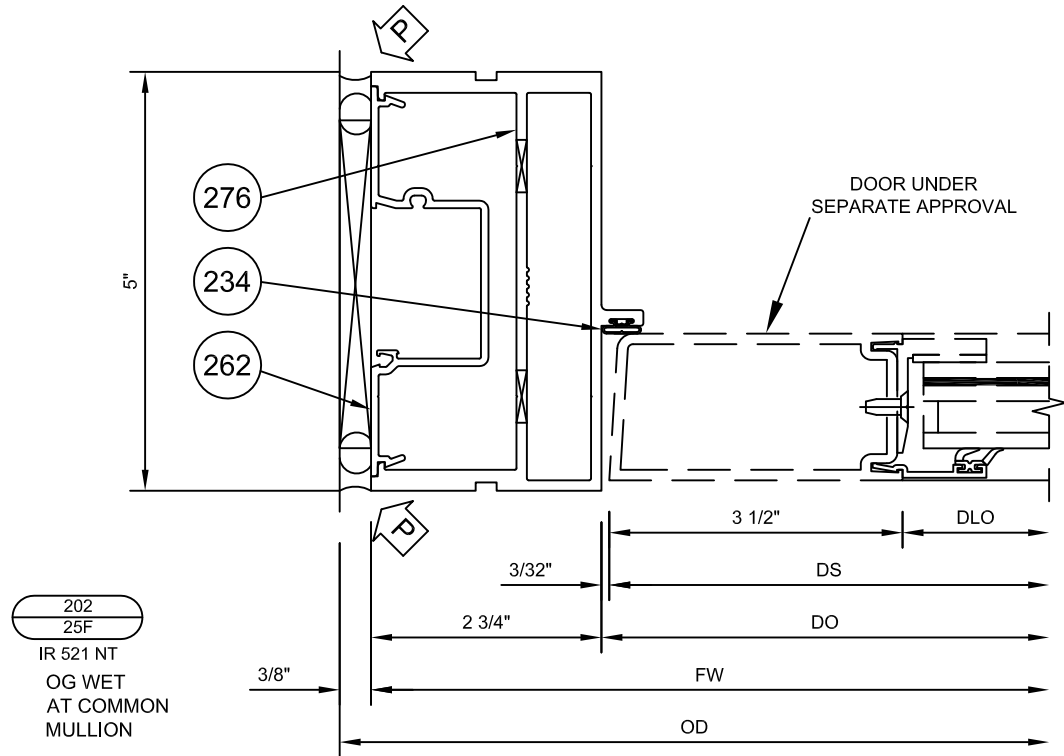
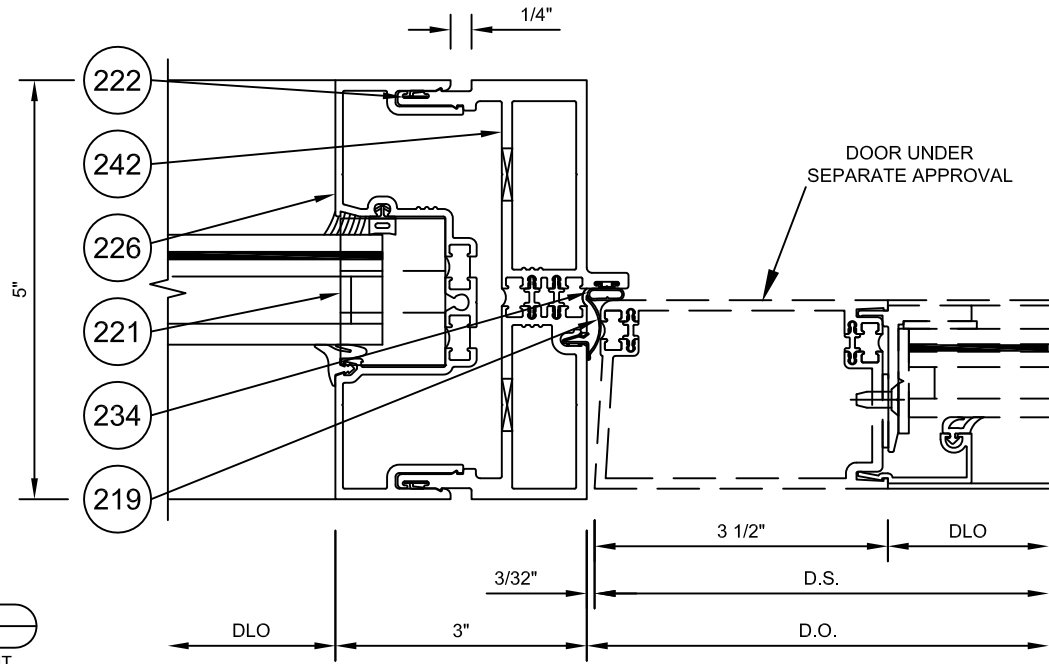
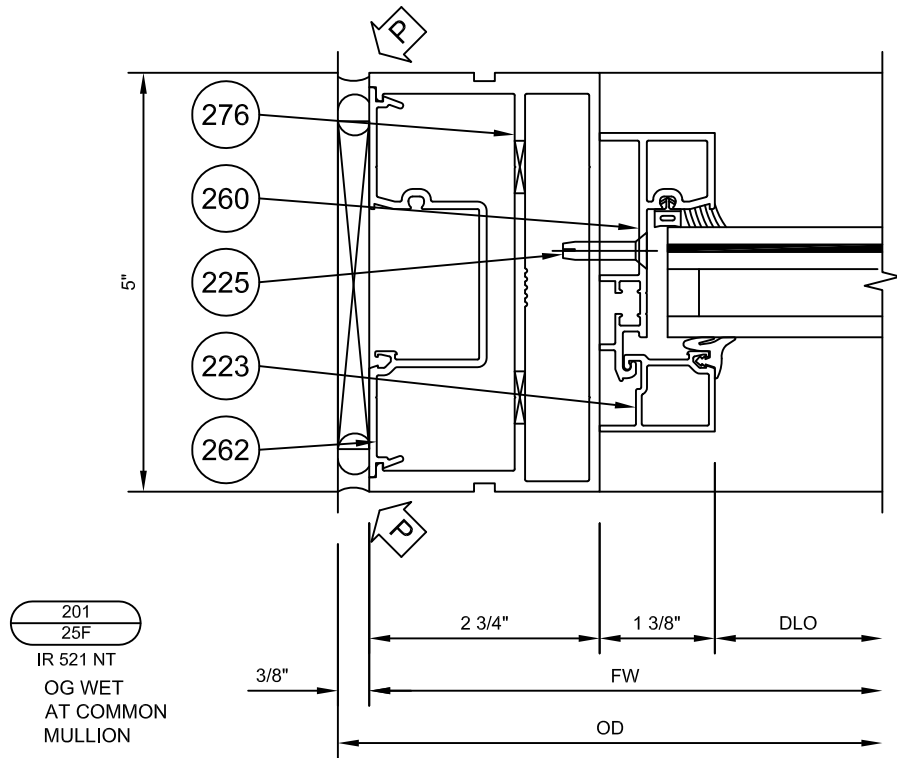
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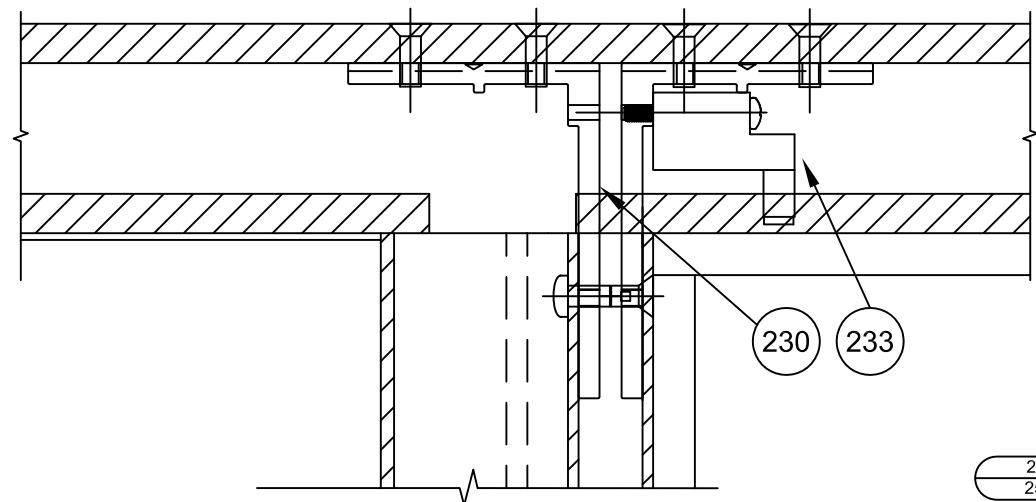


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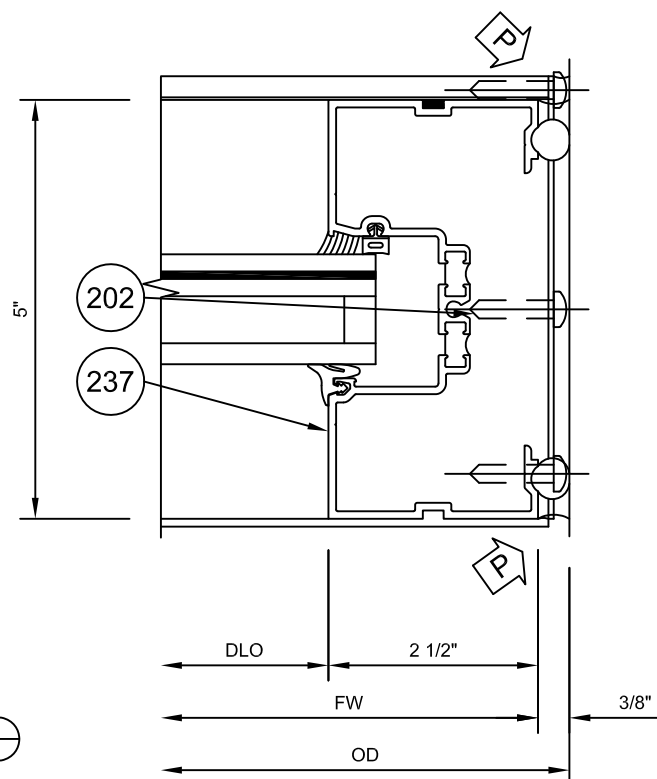
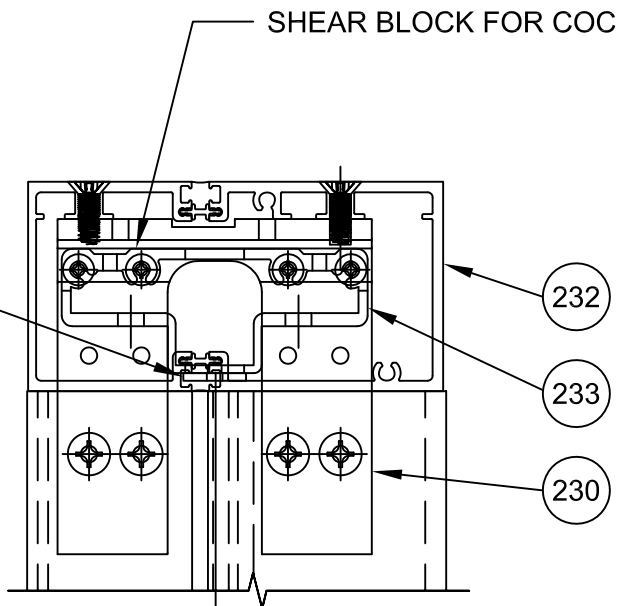


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FL P.E. #58201
TURNER ENGINEERING &
CONSULTING, INC.
2428 OLD NATCHEZ TRACE TRL.
CAMDEN, TN 38320
PH. 941-380-1574

DRAWING NO. IR521-FPA	PRODUCT IR521-FG-PG
FPA # FL47012	
DATE 6/8/2026	
SCALE NTS	SHEET 25F

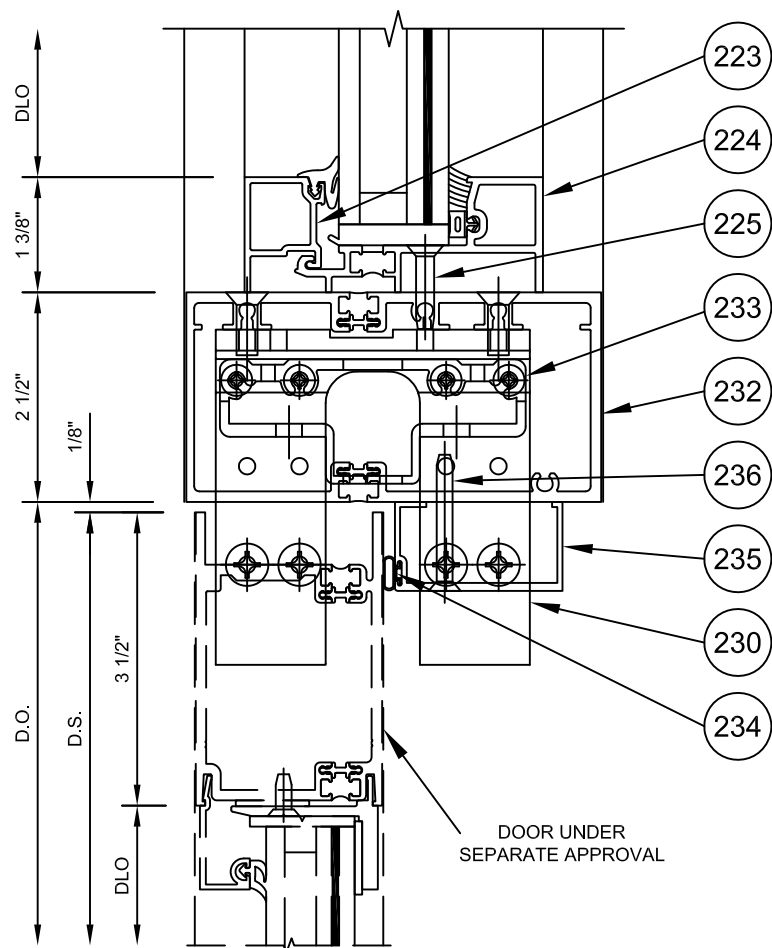


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OG WET
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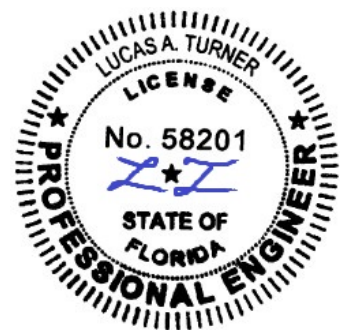


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OG WET
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207
25G
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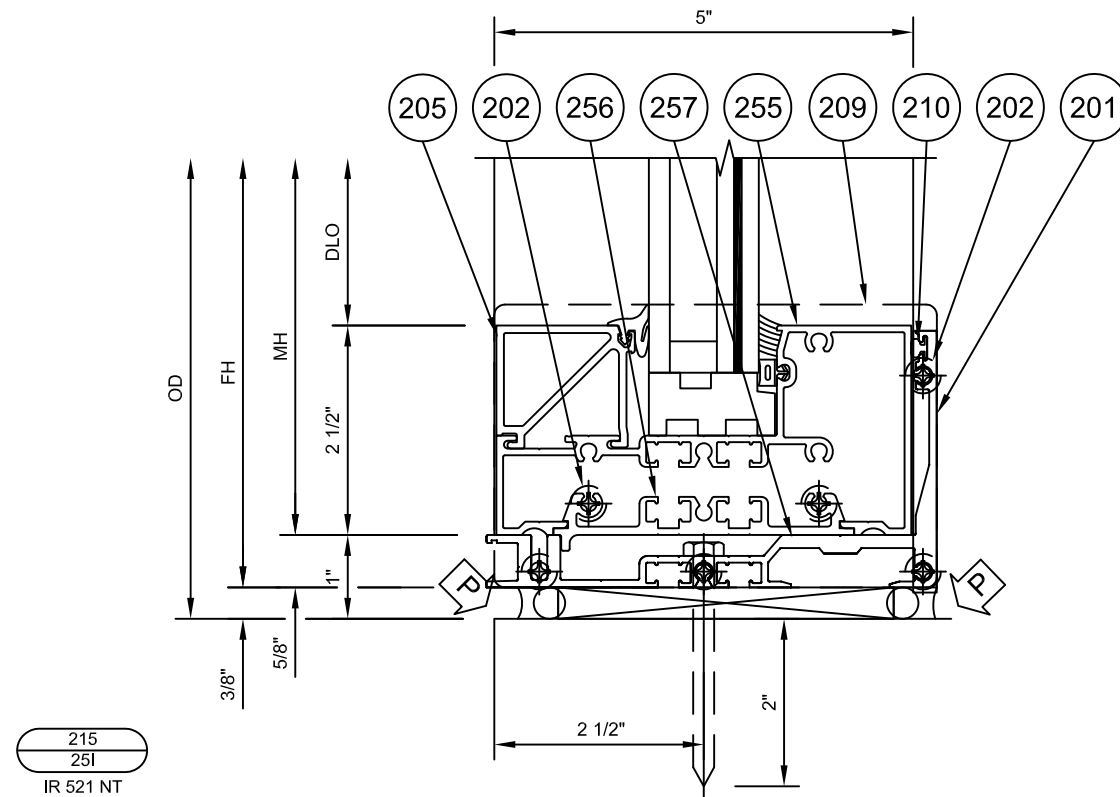
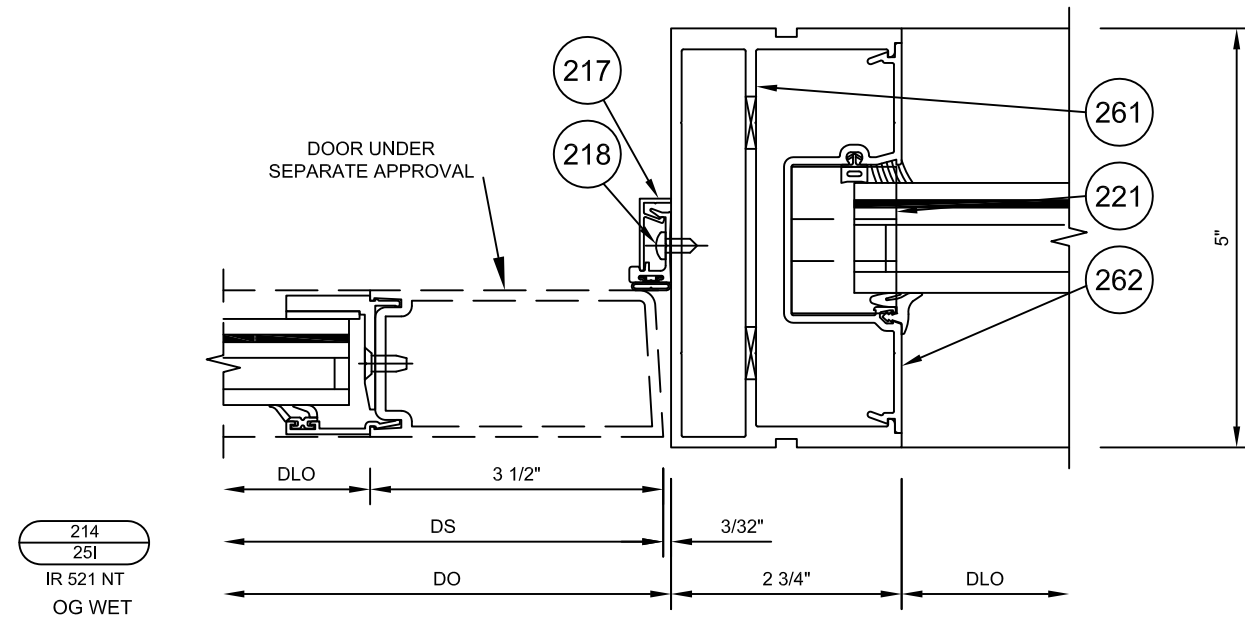
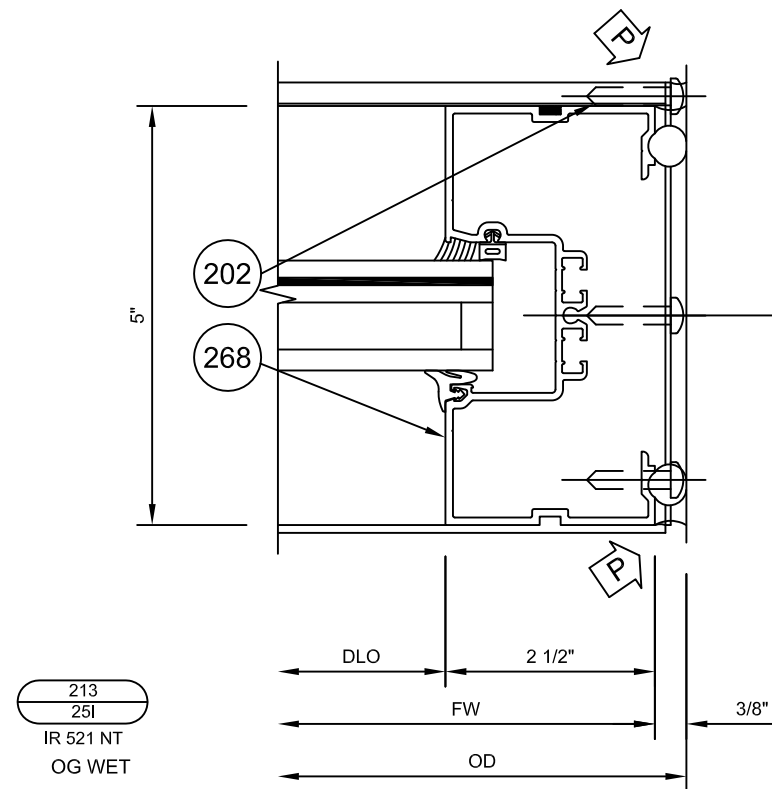
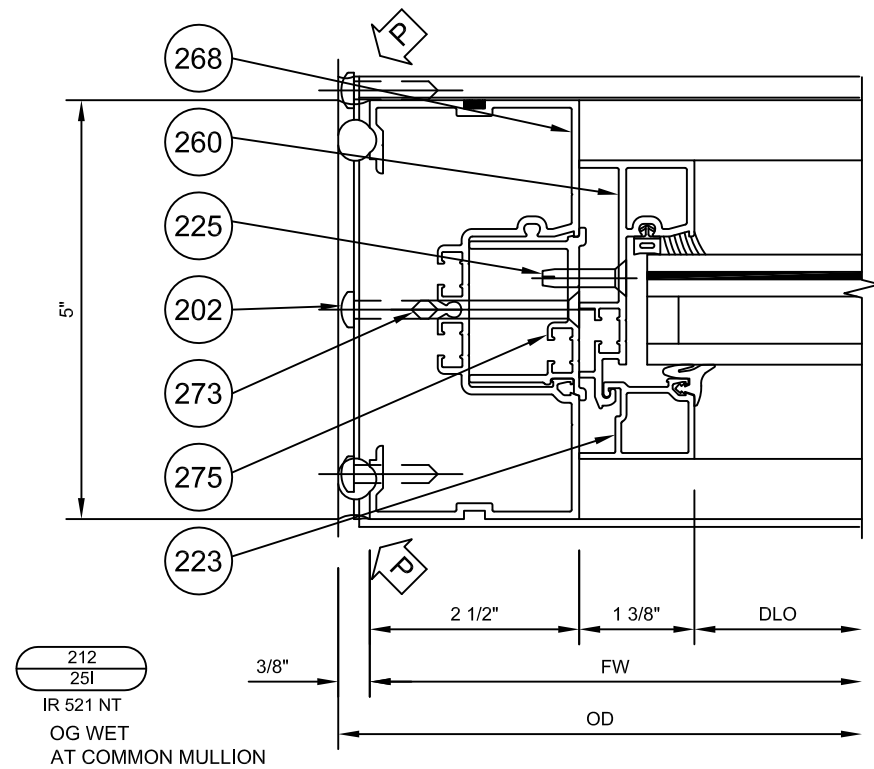
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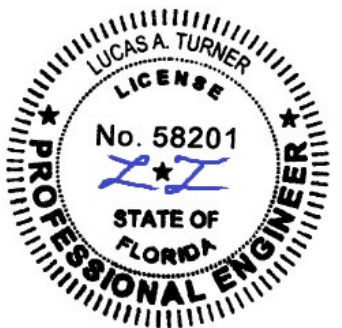
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NTS

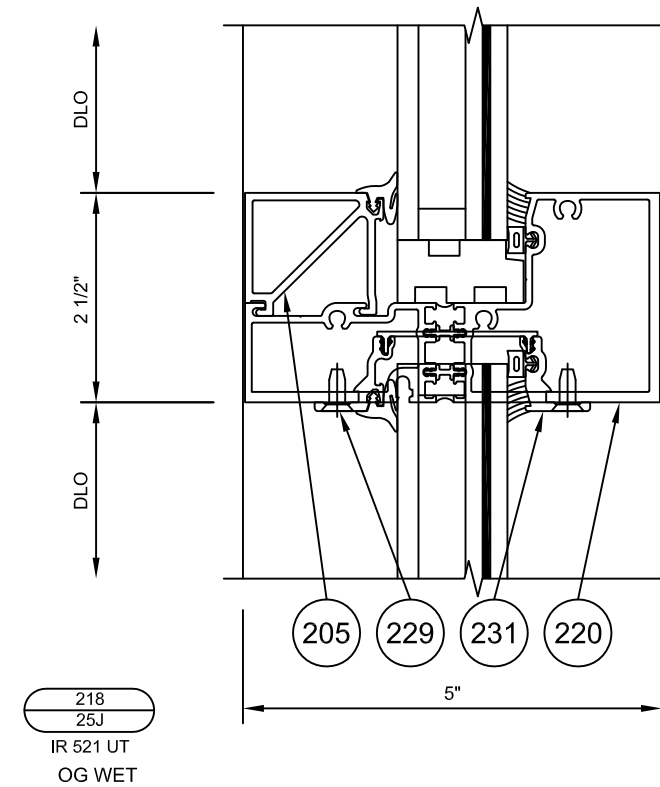
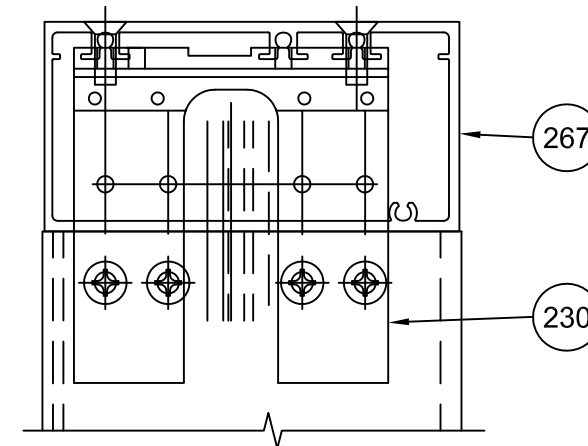
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SHEET 25I

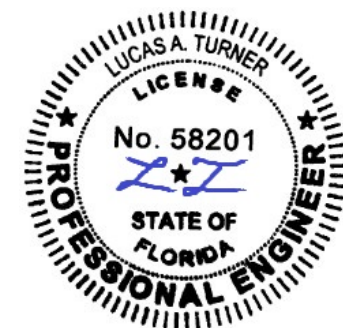
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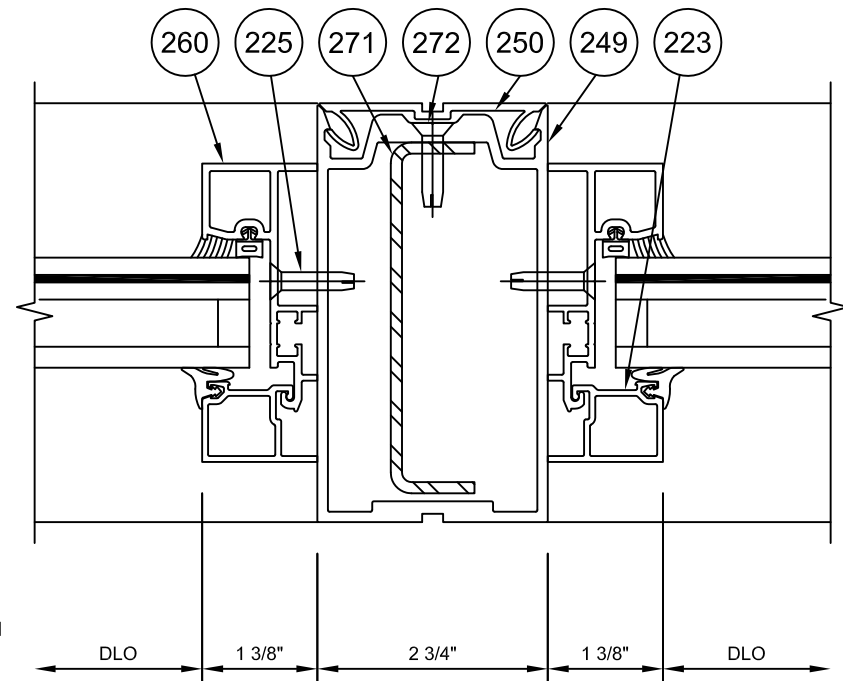
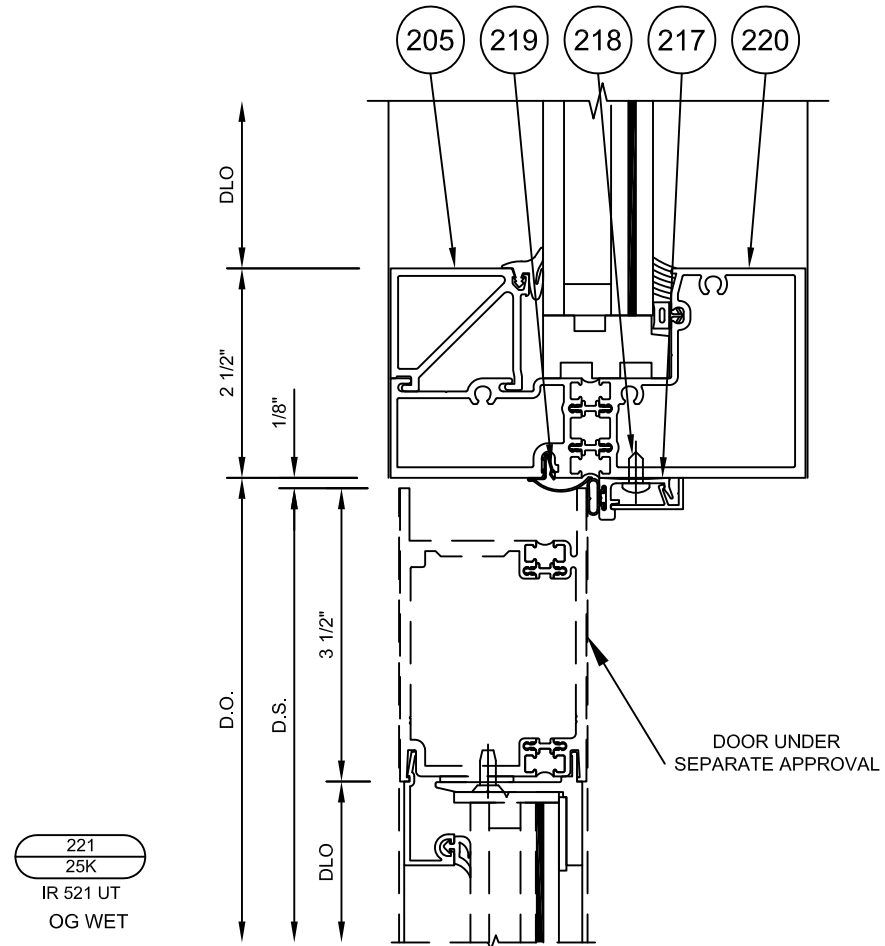
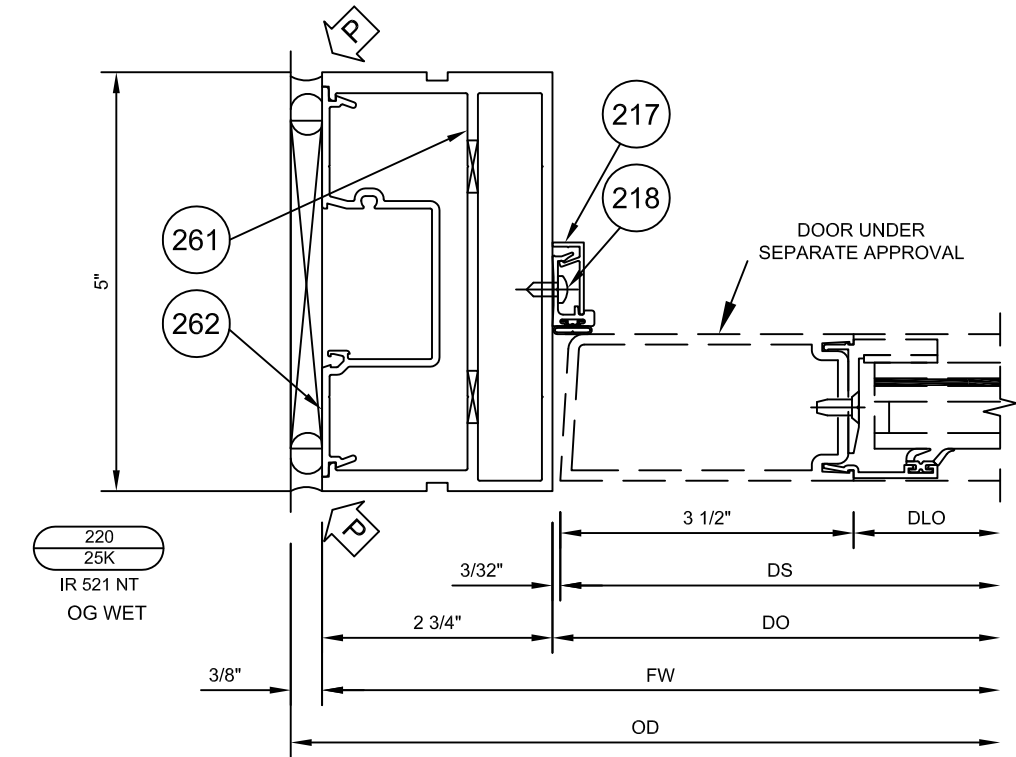
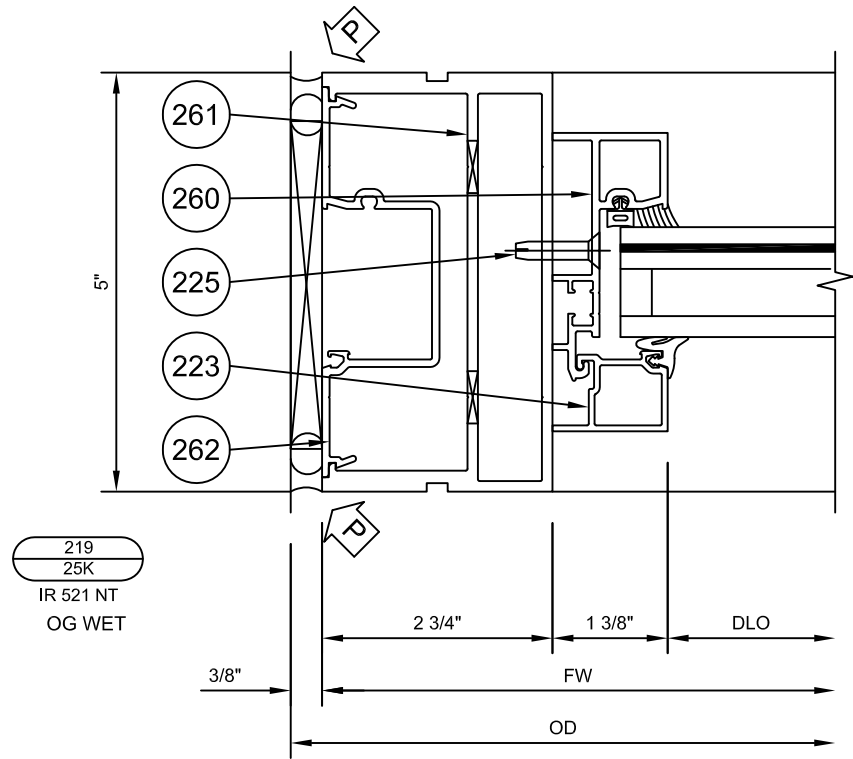
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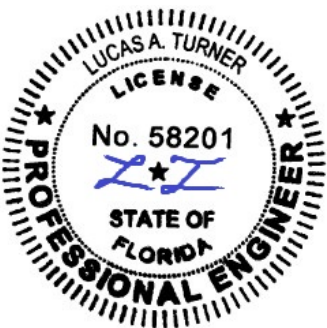
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FPA # FL47012.2	
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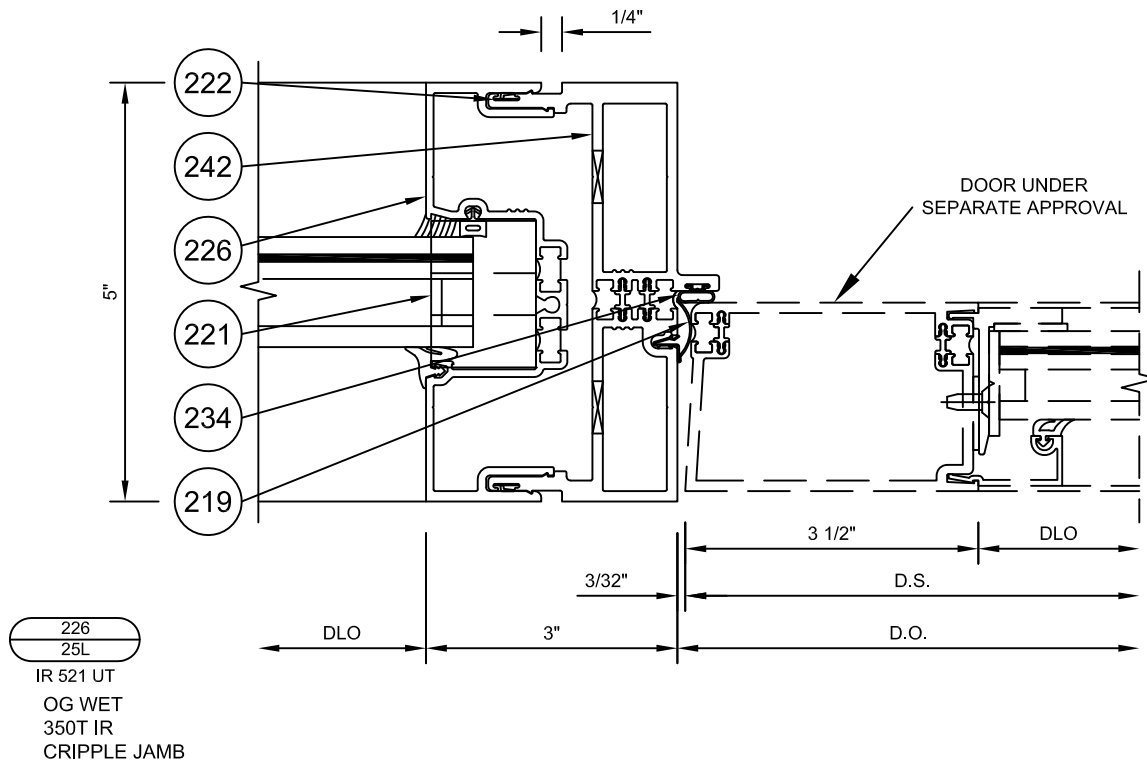
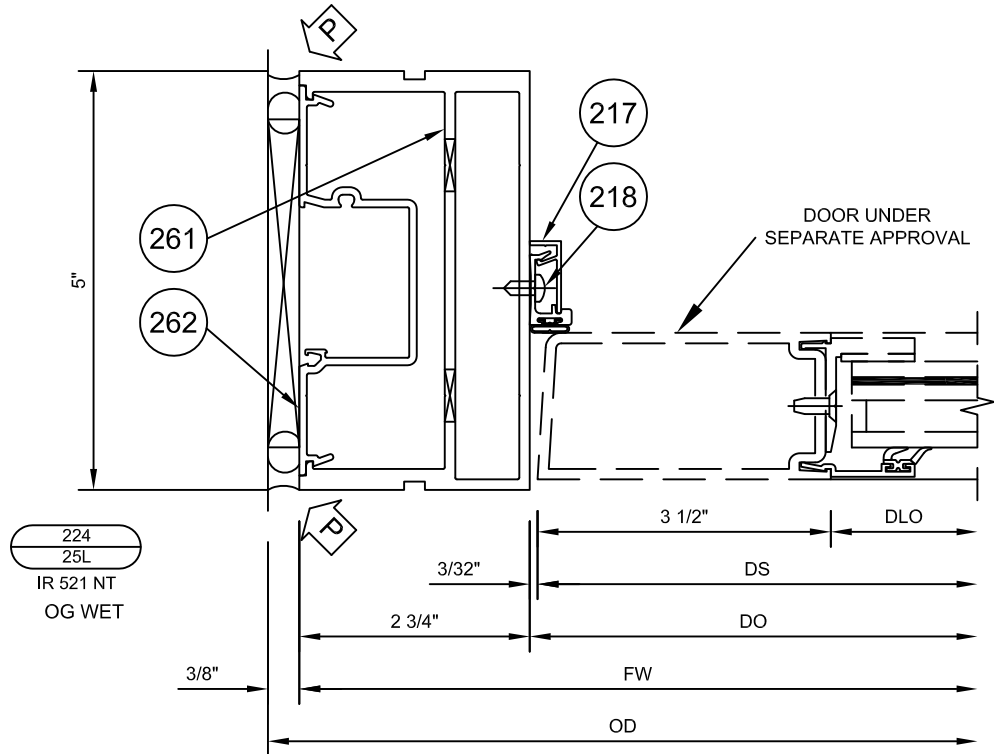
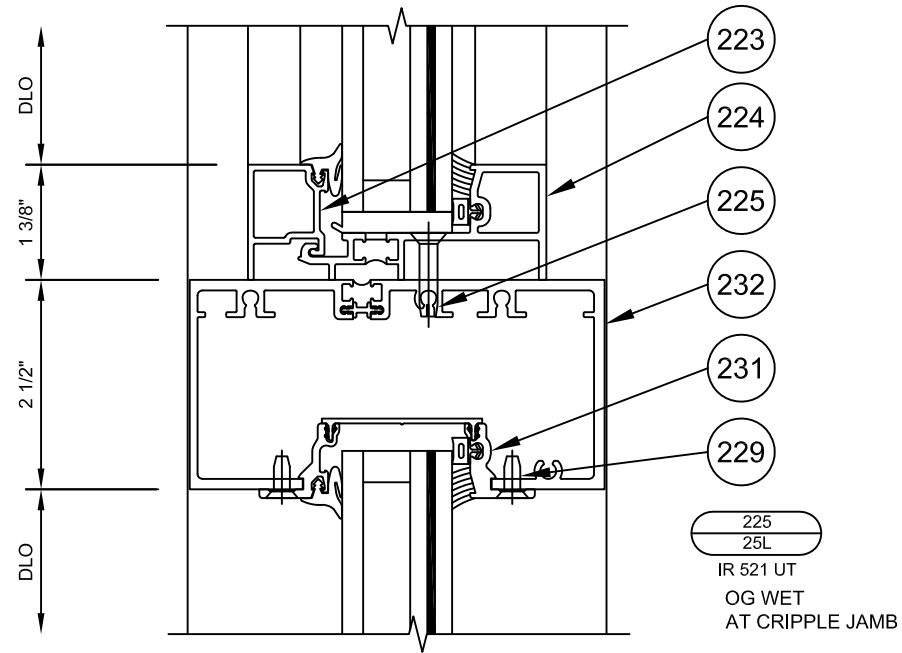
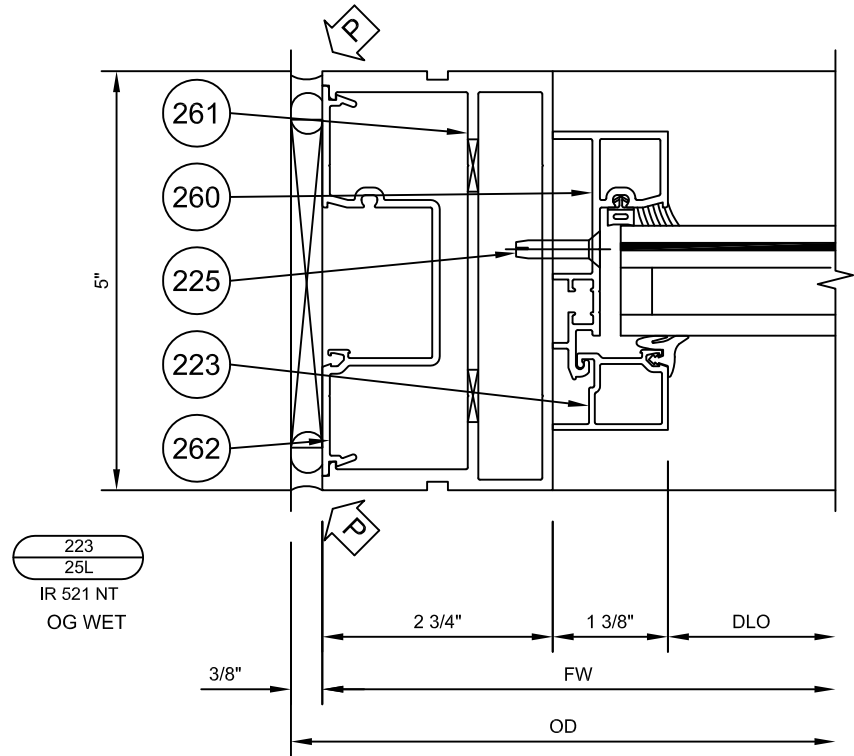
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IR521-FPA
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DATE
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SCALE
NTS

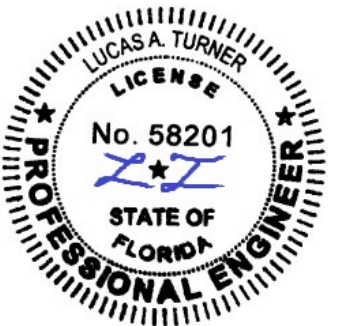
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IR521-FG-PG

SHEET 25K

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PRODUCT
IR521-FG-PG

FPA #
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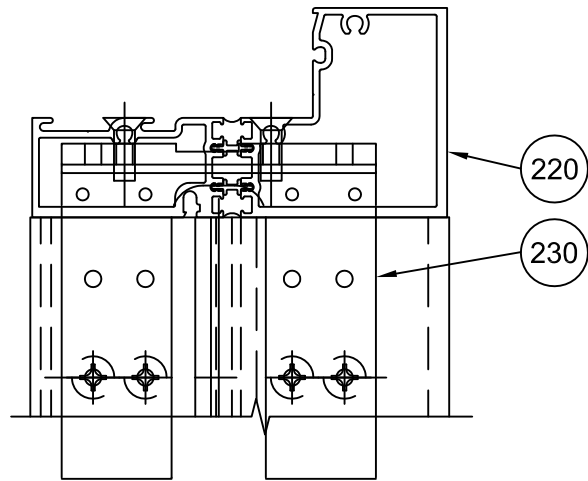
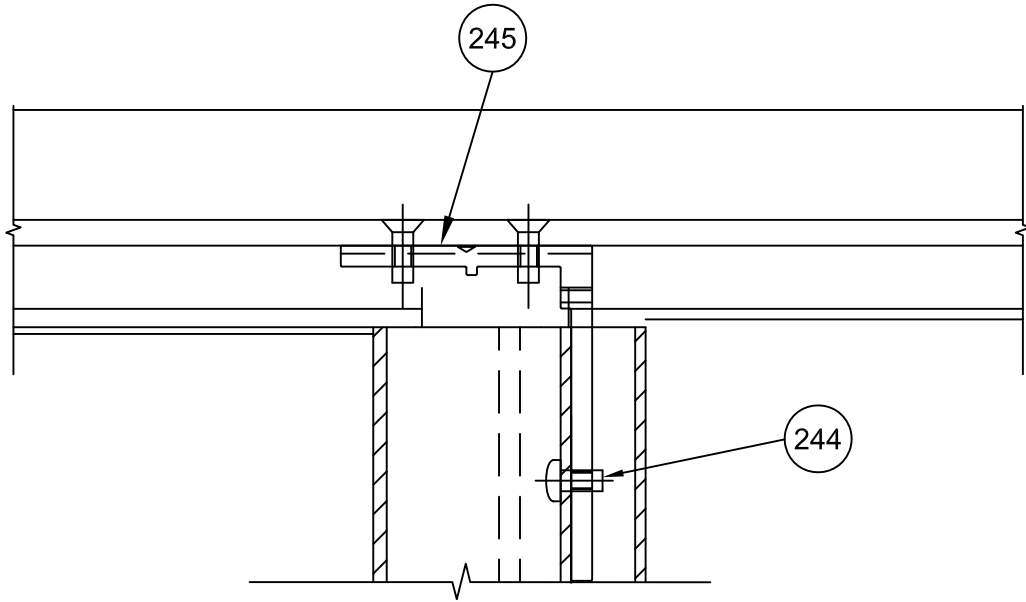
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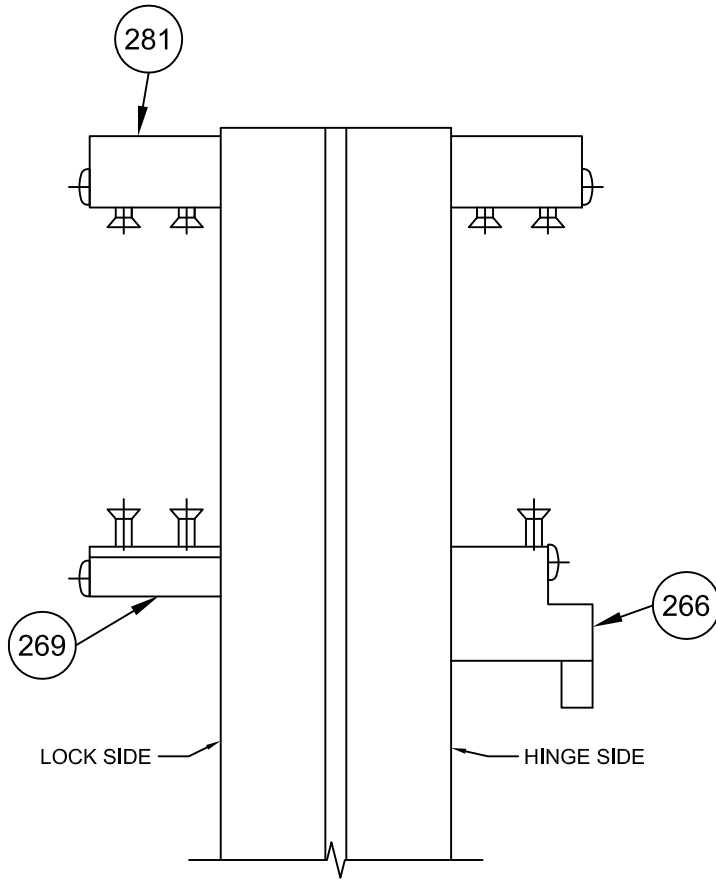
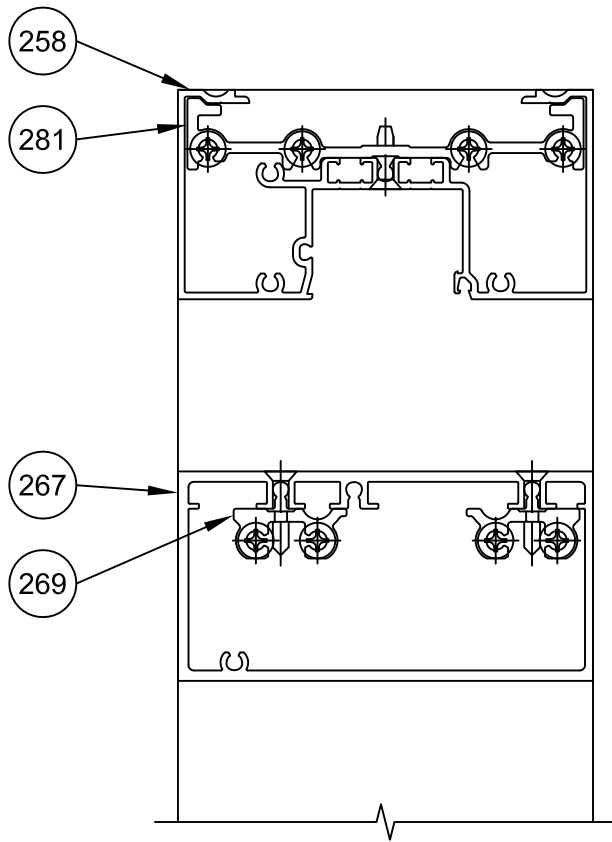
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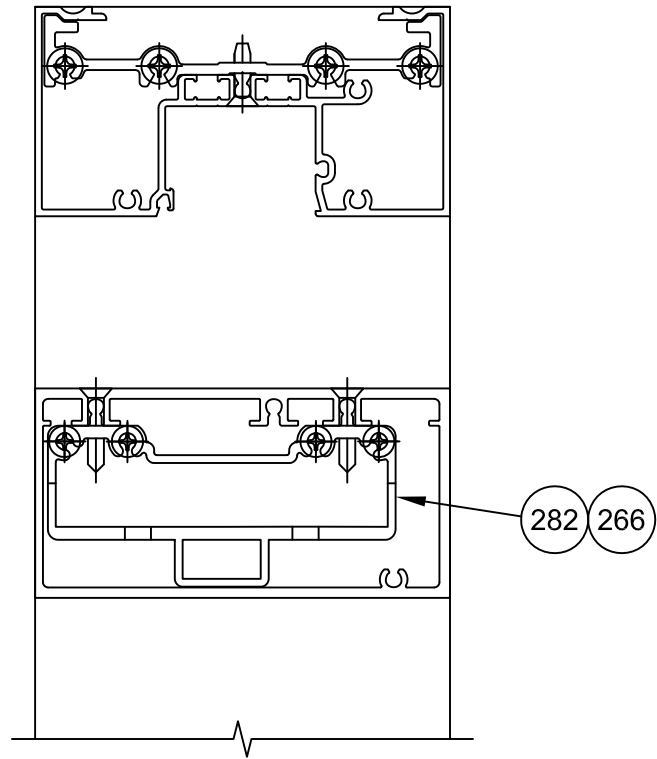
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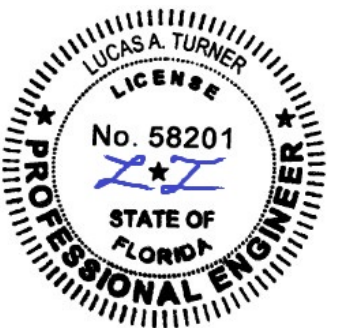
228
25M
IR 521
OG WET
CRIPPLE MULLION



NOTE:
HEADER AND TRANSOM
REMOVED FOR CLARITY.



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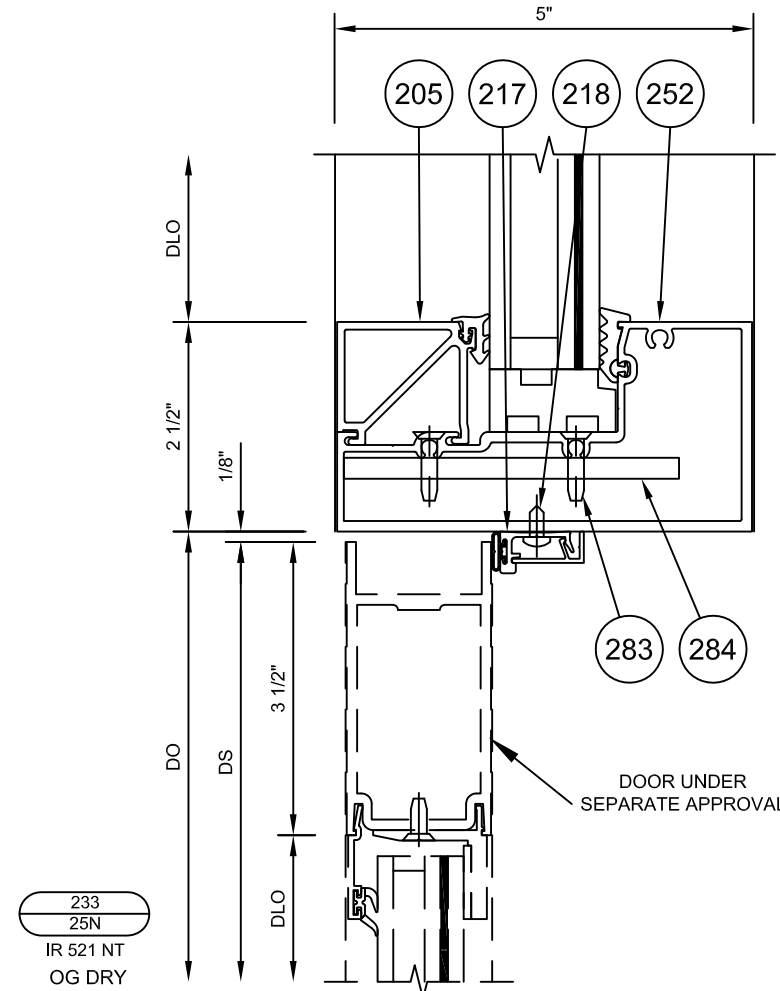
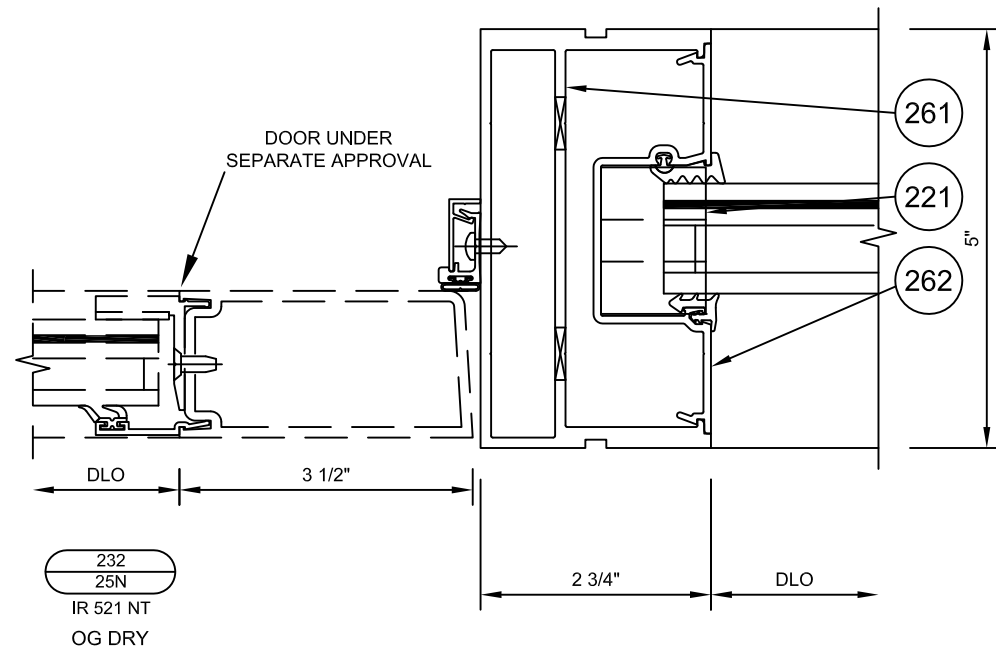
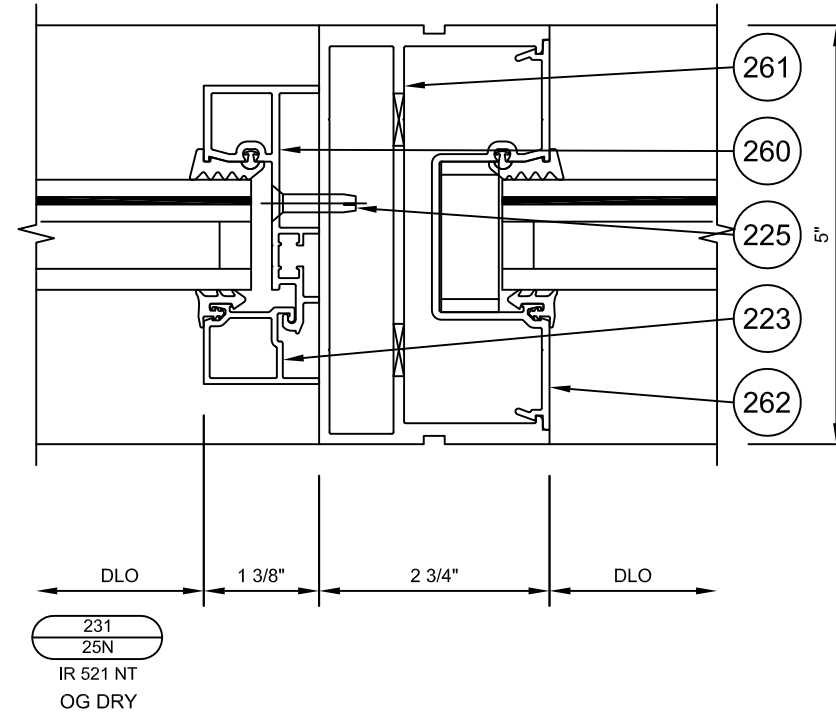
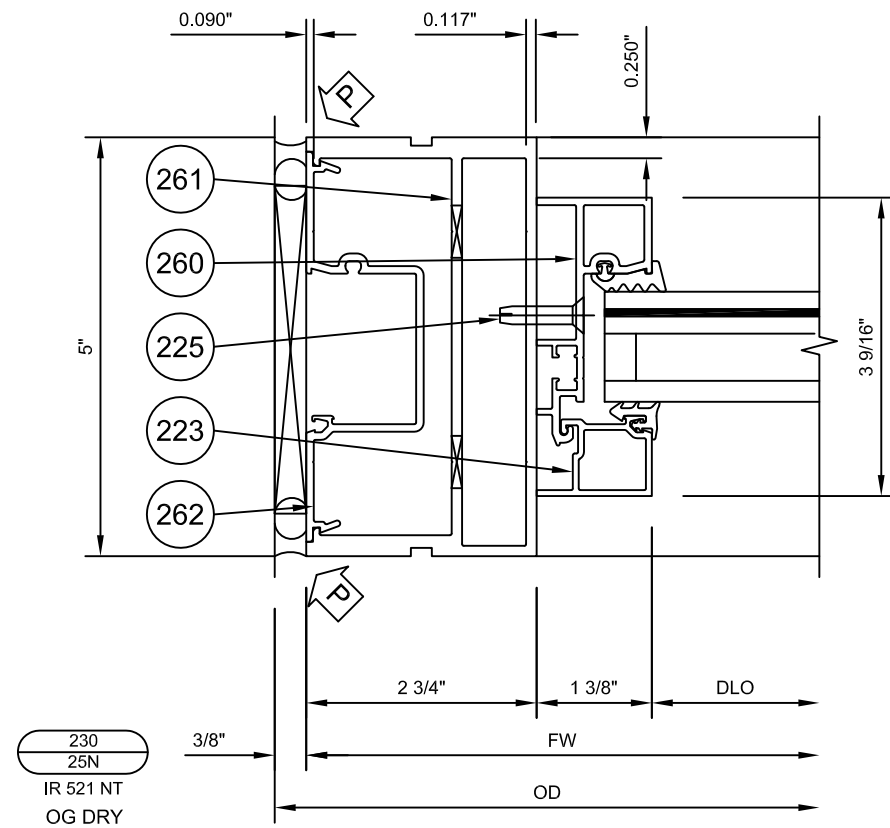
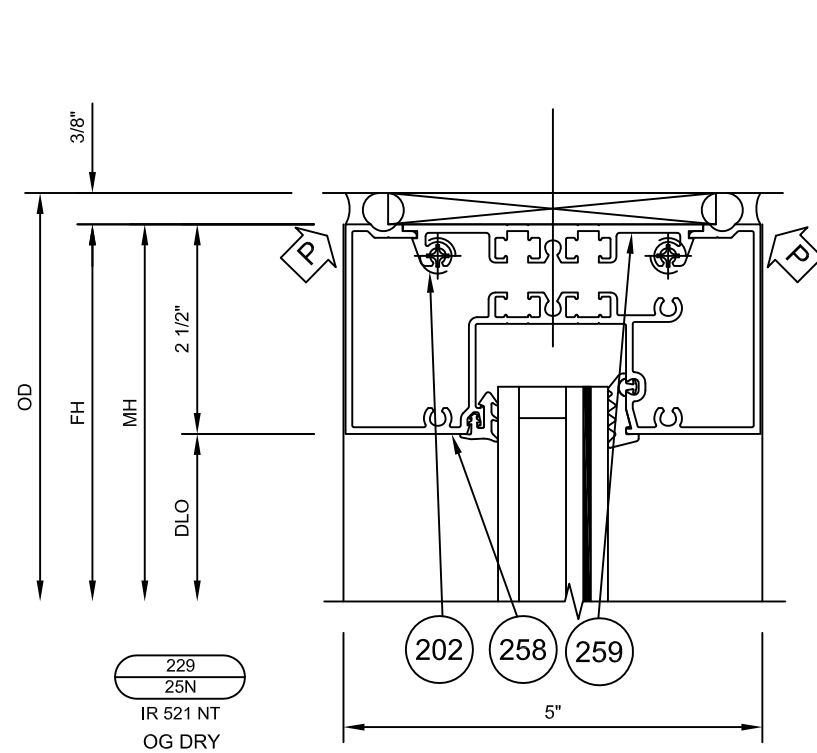
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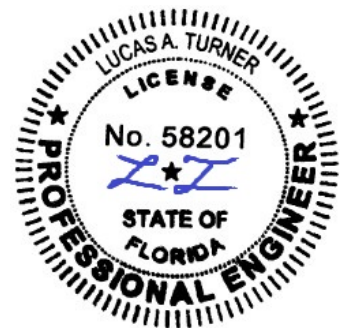
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STOREFRONT SYSTEM BILL OF MATERIALS

NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
1	575217	12" LONG THERMAL FILLER	35	575300	STEEL REINFORCEMENT	65	521TCG441	MULLION	94	521UTCG341	LW UT MULLION
2	521232	9" LONG STRAP ANCHOR	36	521CG316	90° RIGHT SIDE INSIDE CORNER HALF	66	521TCG010	FEMALE LW EXPANSION MULLION	95	521UTCG110	FEMALE LW UT EXPANSION MULLION
3	521CG404	GLASS STOP				67	521TCG009	MALE LW EXPANSION MULLION	96	521UTCG109	MALE LW UT EXPANSION MULLION
4	521132	6" LONG STRAP ANCHOR	37	521CG116	90° RIGHT SIDE OUTSIDE CORNER HALF	68	521TCG316	90° RIGHT SIDE INSIDE CORNER HALF	97	521UTCG141	JAMB
5	128267	#12 x 1" PHTF "AB"							69	521TCG116	90° RIGHT SIDE OUTSIDE CORNER HALF
6	521205	END DAM	38	521CG210	FEMALE EXPANSION MULLION	70	521TCG141	JAMB	99	521UTCG309	MALE UT EXPANSION MULLION
7	521CG301	HORIZONTAL							100	521UTCG413	HW UT MULLION
8	127043	SILL RECEPTOR GASKET	39	521CG209	MALE EXPANSION MULLION	71	521TCG209	MALE EXPANSION MULLION	101	521UTCG410	FEMALE HW UT EXPANSION MULLION
9	521365	SILL FLASHING CLIP	40	521CG141	JAMB				102	521UTCG409	MALE HW UT EXPANSION MULLION
10	521CG001	HORIZONTAL	41	521CG140	2 PC LW LS JAMB	72	521TCG210	FEMALE EXPANSION MULLION	103	521UTCG240	2 PC RS JAMB
11	028268	1/4-20 x 1" FHTC	42	521CG440	2 PC LW RS JAMB					104	521UTCG340
12	575216	6" LONG THERMAL FILLER	43	521CG340	2 PC LS JAMB	73	521TCG340	2 PC LS JAMB	105	521UTCG540	2 PC RS JAMB
13	521CG011	HORIZONTAL	44	521CG240	2 PC RS JAMB				106	128125	1/4-20 x 5/8" FHTC
14	521VG037	SILL FLASHING	45	128271	#12 x 5/8" PHTF "B"	74	521TCG240	2 PC RS JAMB	107	521UTCG016	90° LEFT SIDE OUTSIDE CORNER HALF
15	977028	#10-16 x 9/16" PHTFSD	46	521CG510	FEMALE HW NT EXPANSION MULLION	75	521T232	9" LONG STRAP ANCHOR	108	521UTCG028	135° DEEP POCKET FILLER
16	521CG138	GLASS STOP TRIM				76	575UT217	12" LONG THERMAL FILLER	109	575UT534	135° CORNER MULLION
17	521CG311	HORIZONTAL	47	521CG509	MALE HW NT EXPANSION MULLION	77	521UTCG011	HORIZONTAL	110	521UTVG105	90° CORNER MULLION LEFT
18	521CG104	GLASS STOP				78	575UT216	6" LONG THERMAL FILLER	111	521UTVG005	90° CORNER MULLION RIGH
19	521CG101	HEAD HORIZONTAL	48	521CG540	2 PC RS JAMB	79	521UTCG001	HORIZONTAL	112	521UTVG034	135° CORNER MULLION
20	521CG338	GLASS STOP COVER	49	521CG513	HW NT MULLION	80	521UT365	SILL FLASHING CLIP	113	128556	12-24 X 1" PHTC
21	521CG111	HORIZONTAL	50	521TCG301	HORIZONTAL	81	521UTVG037	SILL FLASHING	114	521TCG440	2 PC LW RS JAMB
22	521CG304	GLASS STOP	51	521T365	SILL FLASHING CLIP	82	521UTCG301	HORIZONTAL	115	521TCG140	2 PC LW LS JAMB
23	521CG087	FILLER	52	521TCG001	HORIZONTAL	83	521UTCG101	HEAD HORIZONTAL	116	575301	STEEL REINFORCEMENT #2
24	521CG501	HEAD HORIZONTAL	53	575T216	6" LONG THERMAL FILLER	84	521T432	6" LONG STRAP ANCHOR			
25	521CG187	FILLER	54	521TCG011	HORIZONTAL	85	521UTCG311	HORIZONTAL			
26	521CG401	HEAD HORIZONTAL	55	521TVG037	SILL FLASHING	86	521UTCG401	HEAD HORIZONTAL			
27	521CG201	HEAD HORIZONTAL	56	521TCG401	HEAD HORIZONTAL	87	521UTCG111	HORIZONTAL			
28	521CG441	MULLION	57	521TCG311	HORIZONTAL	88	521UTCG501	HEAD HORIZONTAL			
29	521CG502	HW NT SHALLOW POCKET FILLER	58	521TCG101	HEAD HORIZONTAL	89	521UTCG316	90° RIGHT SIDE INSIDE CORNER HALF			
30	521CG241	LW MULLION	59	521TCG501	HEAD HORIZONTAL	90	521UTCG116	90° RIGHT SIDE OUTSIDE CORNER HALF			
31	521CG041	LW JAMB	60	521TCG111	HORIZONTAL						
32	521CG010	FEMALE LW EXPANSION MULLION	61	521TCG201	HEAD HORIZONTAL	91	521UTCG402	HW UT SHALLOW POCKET FILLER			
33	521CG009	MALE LW EXPANSION MULLION	62	575T217	12" LONG THERMAL FILLER						
34	027806	WEATHERING	63	521TCG041	LW JAMB	92	521UTCG541	UT MULLION			
			64	521TCG102	THERMAL SHALLOW POCKET FILLER						
						93	521UTCG041	LW JAMB			

ALL EXTRUSIONS ARE 6063-T6 ALUMINUM. SEE POUR/DEBRIDGE THERMAL OPTION DETAILS, SHEET 1



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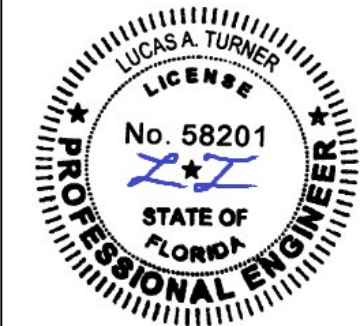
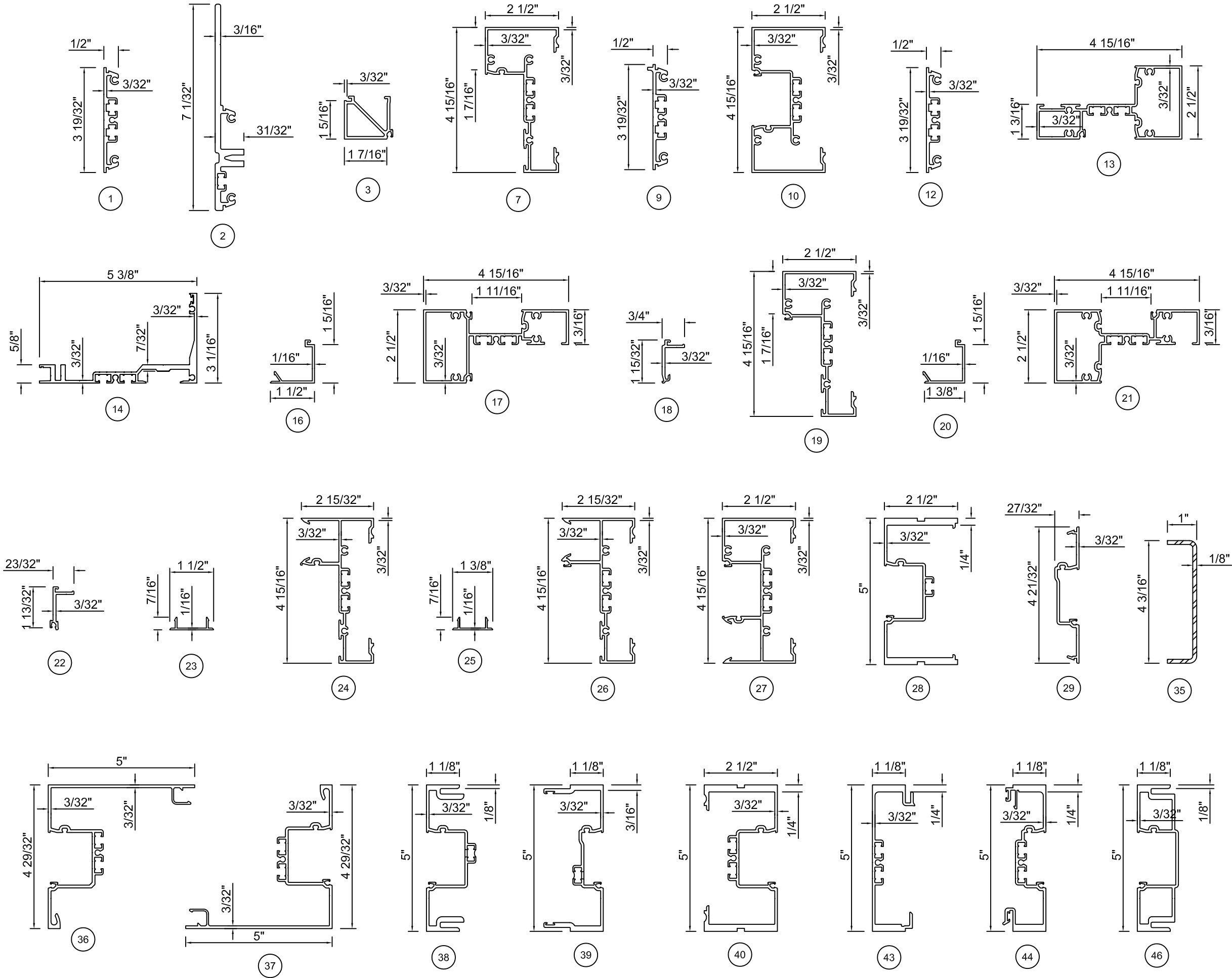
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FPA # FL47012	SHEET 26
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