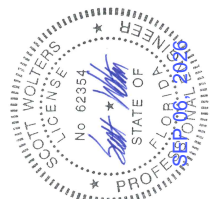


PS HURRICANE SYSTEM

SOUTH FLORIDA



Digitally signed
by Scott Walters
Date: 2026.09.07
03:19:03 -04'00'



SEAL:

SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

SERIES RT3 STRUCTURAL SILICONE AND CAPTURED SYSTEM
WITH LAMINATED & INSULATED LAMINATED GLASS
LARGE (LEVEL E & D) AND SMALL MISSILE IMPACT

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
- THIS SYSTEM HAS BEEN TESTED PER TAS 201, 202, & 203.
- GLASS TYPES GL1, GL2, GL8, GL9, AND GL16 HAVE BEEN TESTED FOR LARGE (LEVEL E) AND SMALL MISSILE IMPACT RESISTANCE. GLASS TYPES GL3, GL4, GL5, GL7, GL10, GL11, GL12, AND GL15 HAVE BEEN TESTED FOR LARGE (LEVEL D) AND SMALL MISSILE IMPACT RESISTANCE. METAL PANEL TYPE MP-1 HAS BEEN TESTED FOR (LEVEL E) LARGE AND SMALL MISSILE IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED IN WINDBORNE DEBRIS REGIONS.
- GLASS TYPES GL6 AND GL14 HAVE BEEN TESTED FOR SMALL MISSILE IMPACT RESISTANCE ONLY. SHUTTERS ARE REQUIRED IN WINDBORNE DEBRIS REGIONS FOR USE BELOW 30 FT.
- DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT. THE (ASD) DESIGN PRESSURE CANNOT EXCEED THE TESTED AND APPROVED PRESSURES LISTED FOR EACH COMPONENT OF THIS SYSTEM.
- WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER IMPOSED LOADS TO THE STRUCTURE.
- ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS, ANCHOR EMBEDMENT IN BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.ED
- CODE REQUIREMENTS FOR SAFE GUARDS MUST BE OBSERVED.
- GLASS CHARTS ON SHEETS 4-8 ARE BASED ON TEST PRESSURES, ASTM E 1300-16, AND SILICONE STRENGTH AT SSG MULLIONS.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE SEPARATED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS.

SYSTEM NOTES:

- GLASS - SEE CHARTS ON SHEETS 4-8 FOR ALLOWABLE GLASS TYPES, SIZES, AND DESIGN PRESSURE.
- MULLIONS - SEE CHARTS ON SHEETS 9-11 & 33-34 FOR ALLOWABLE DESIGN PRESSURES FOR VARIOUS MULLION AND REINFORCEMENT CONFIGURATIONS.
- ANCHORS - SEE CHARTS AND INFO ON SHEETS 40-49 FOR ALLOWABLE ANCHORS.
- SYSTEM - THE DESIGN PRESSURE OF THE ENTIRE SYSTEM IS THE LOWEST ALLOWABLE DESIGN PRESSURE OF THE THREE COMPONENTS ABOVE THAT MAKE UP THE SYSTEM.
- DOORS - SEE SEPARATE NOAS FOR SINGLE/DOUBLE DOORS WITH SUBFRAME FOR DOOR RATINGS, ANCHORS & DETAILS.
- BILL OF MATERIALS - SEE SHEETS 50-52.

INSTRUCTIONS: (USE CHARTS AS FOLLOWS.)

- STEP 1. DETERMINE DESIGN WIND LOAD REQUIREMENT (ASD) BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE USING APPLICABLE FBC AND ASCE 7 STANDARDS.
- STEP 2. SEE CHARTS ON SHEETS 4-8 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3. CHECK MULLION CAPACITY AND REQUIRED REINFORCING FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 9-11 & 33-34.
- STEP 4. USING HEAD/SILL ANCHOR DETAILS ON SHEETS 40-45, SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5. CHECK MID-SPAN ANCHOR CAPACITY FOR MULTIPLE SPANS USING CHARTS AND DETAILS ON SHEETS 46-49.
- STEP 6. THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 & 5 SHALL APPLY TO ENTIRE SYSTEM.

LEGEND

- L = SPAN (IN.)
W = TRIBUTARY WIDTH (IN.)
Pd = DESIGN PRESSURE (PSF)
R = REACTION (Lbs)

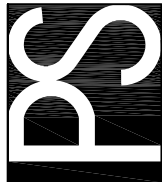
INDEX OF DRAWING		REV. 5 10/19/21	REV. 6 DATE: 6/14/22	REV. 8 DATE: 8/31/23	REV. 9 DATE: 10/23/23	REV. 10 DATE: 9/3/24	REV. 11 DATE: 2/25/25	REV. 12 DATE: 5/2/25	REV. 13 DATE: 8/25/25	REV. 14 DATE: 10/31/25	REV. 15 DATE: 9/6/26
SHEET	DESCRIPTION										
1	COVER										
2	SINGLE SPAN ELEVATION	•									
3	MULTI-SPAN ELEVATION	•									
4	GLASS LOAD CAPACITY – SSG INSULATED LAMINATED			•							
5	GLASS/METAL PANEL LOAD CAPACITY – SSG LAMINATED										
6	GLASS LOAD CAPACITY – CAPTURED INSULATED LAMINATED									•	
7	GLASS LOAD CAPACITY – CAPTURED LAMINATED			•							
8	GLASS LOAD CAPACITY – CURVED INSULATED LAMINATED							•			
9	SINGLE SPAN MULLION CHARTS							•			
10	MULTI-SPAN MULLION CHARTS									•	
11	XL MULLION CHARTS				•						
12	HEAD HORIZONTAL DETAILS	•									
13	INTERMEDIATE HORIZONTAL DETAILS	•									
14	SILL HORIZONTAL DETAILS	•									
15	HORIZONTAL MULLION DETAILS	•									
16	HORIZONTAL MULLION DETAILS	•									
17	XL HORIZONTAL MULLION DETAILS				•						
18	SHALLOW HORIZONTAL MULLION/ALTERNATE SILL DETAILS									•	
19	STACK HORIZONTAL MULLION DETAILS	•									
20	STACK HORIZONTAL MULLION DETAILS	•									
21	STACK HORIZONTAL MULLION DETAILS	•									
22	XL STACK HORIZONTAL MULLION DETAILS		•								
23	JAMB MULLION DETAILS	•									
24	JAMB MULLION DETAILS	•									
25	VERTICAL MULLION DETAILS	•									
26	VERTICAL MULLION DETAILS	•									
27	VERTICAL MULLION DETAILS	•									
28	XL VERTICAL MULLION DETAILS				•						
29	SHALLOW VERTICAL MULLION DETAILS						•				
30	VERTICAL MULLION WITH INTERNAL SEAL DETAILS									•	
31	CORNER MULLION DETAILS			•							
32	CORNER MULLION DETAILS			•							
33	CORNER MULLION DETAILS										
34	XL CORNER MULLION DETAILS				•						
35	TYPICAL DOOR DETAILS	•									
36	TYPICAL DOOR DETAILS	•									
37	TYPICAL XL DOOR DETAILS										
38	XL CRIPPED DOOR MULLION ELEVATION						•				
39	XL CRIPPED DOOR MULLION DETAILS						•				
40	HEAD/SILL ANCHOR DETAILS				•						
41	HEAD/SILL ANCHOR DETAILS				•						
42	XL HEAD/SILL ANCHOR DETAILS						•				
43	XL HEAD/SILL ANCHOR DETAILS						•				
44	SHALLOW HEAD/SILL ANCHOR DETAILS							•			
45	ALTERNATE SILL ANCHOR DETAILS									•	
46	MID-SPAN ANCHOR DETAILS	•									
47	MID-SPAN ANCHOR DETAILS	•									
48	MID-SPAN ANCHOR DETAILS						•				
49	MID-SPAN ANCHOR DETAILS									•	
50	BILL OF MATERIALS									•	
51	BILL OF MATERIALS									•	
52	BILL OF MATERIALS				•						
53	END BLOCKS DETAILS	•									
54	3D ASSEMBLY DETAILS	•									

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	DATE	DESCRIPTION
15	9/6/26	
14	10/31/25	
13	8/25/25	
12	5/2/25	
11	2/25/25	
PRINTS	ISSUED FOR	REV.#

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020



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FAX: (205)426-3937

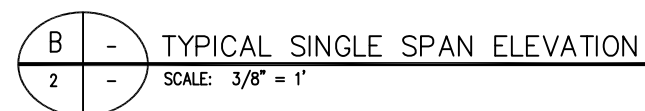
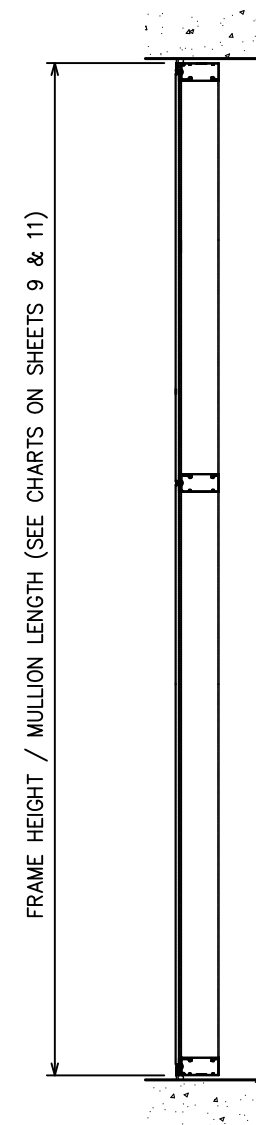
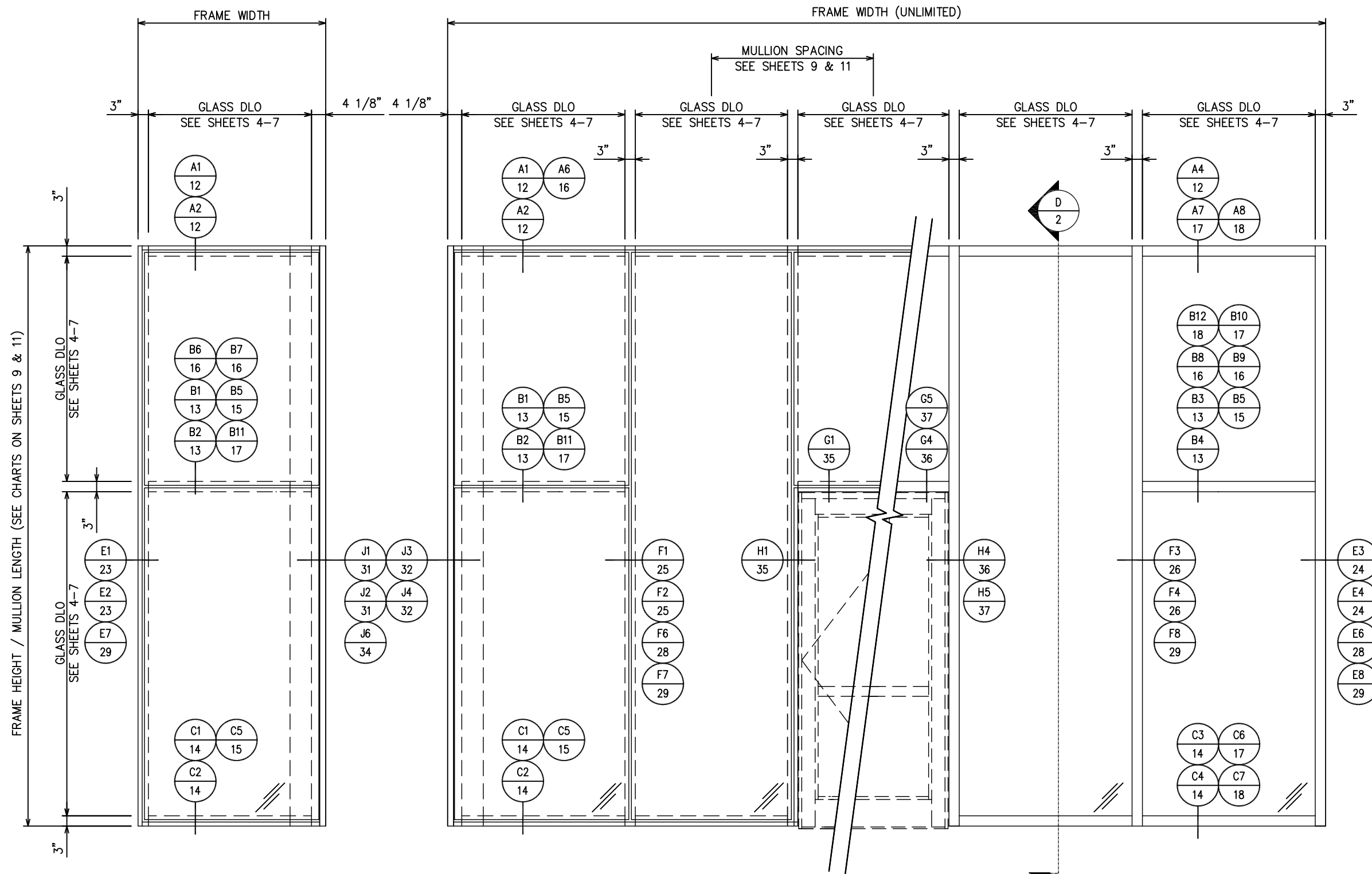
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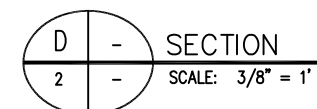
SHEET:

1/54

SINGLE-SPAN ELEVATION:



SSG AND CAPTURED SYSTEMS MAY
BE USED INTERCHANGEABLY.



RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

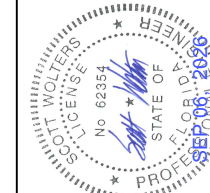
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2020 CODE UPDATE	5	10/19/21	
PRINTS ISSUED FOR	REV #	DATE	DESCRIPTION

PHYSICAL SECURITY, LLC
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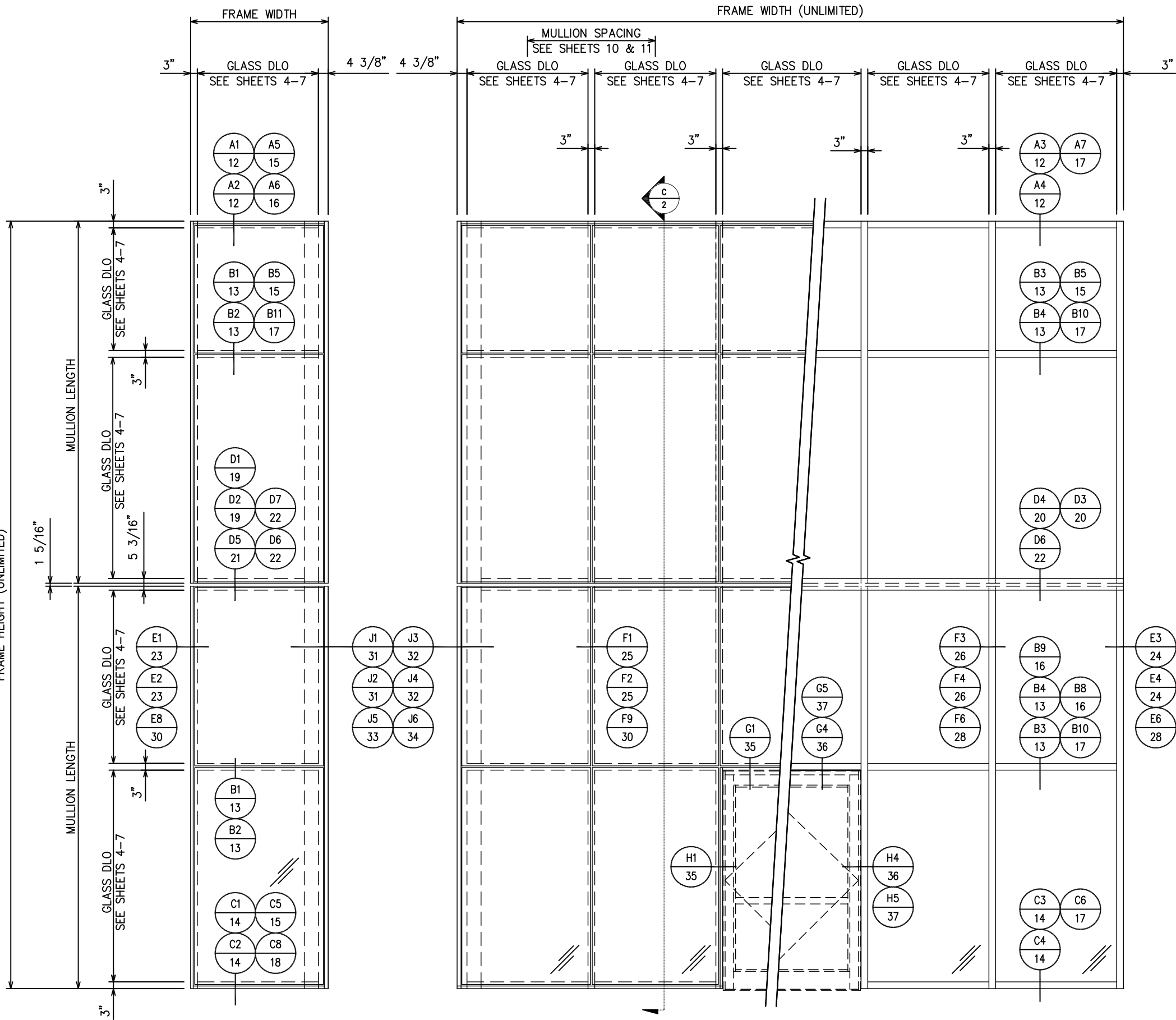
DWG: RT3-IR
SHEET: 2/54

SEAL: SCOTT WOLTERS
FI DE# 62354

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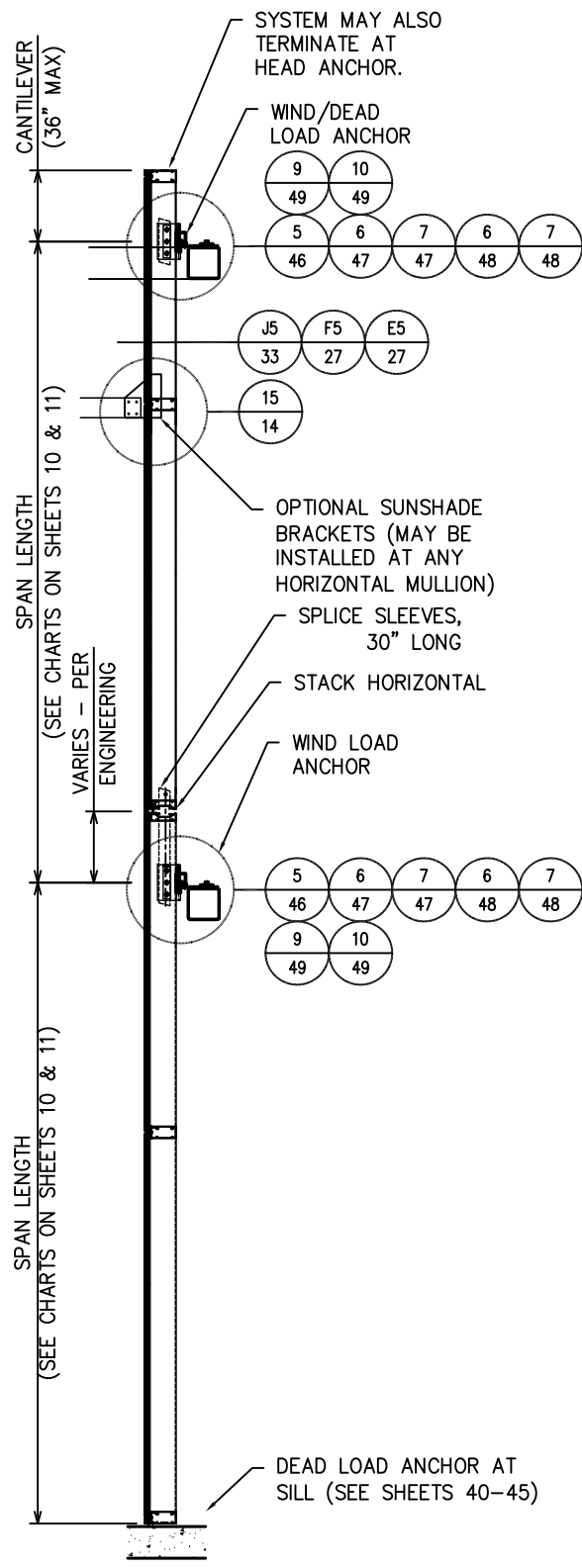


MULTI-SPAN ELEVATION:



A - TYPICAL TWIN SPAN/MULTI-SPAN ELEVATION
3 - SCALE: 1/4" = 1'

SSG AND CAPTURED SYSTEMS MAY BE USED INTERCHANGEABLY.



C - SECTION
3 - SCALE: 3/8" = 1'

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RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

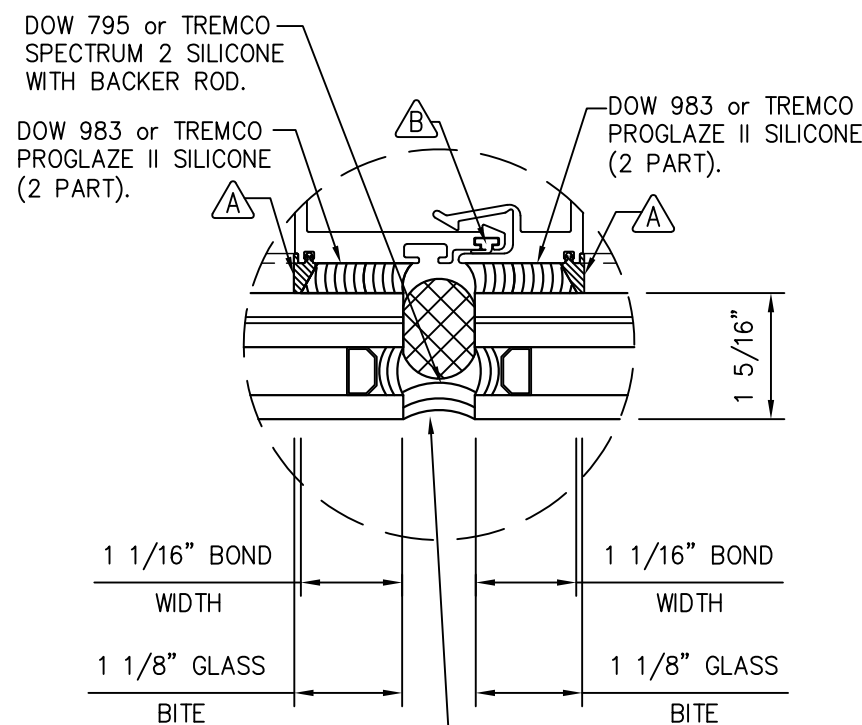
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2020 CODE UPDATE	5				
PRINTS ISSUED FOR	REV.#	DATE			

PHYSICAL SECURITY, LLC
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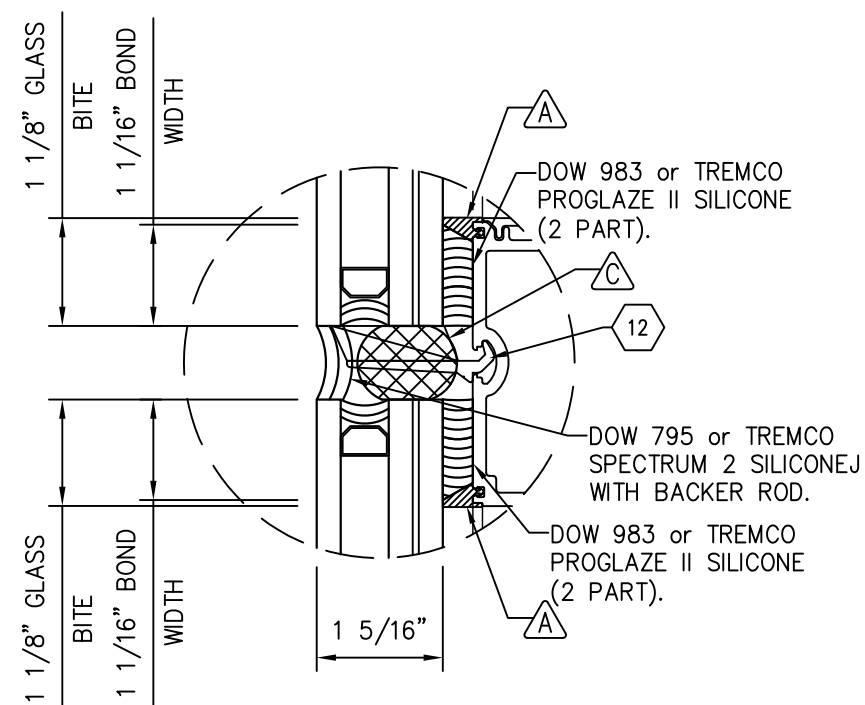
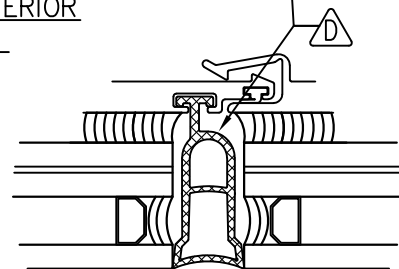
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DWG: RT3-IR
SHEET: 3/54

GLAZING DETAILS – SSG INSULATED LAMINATED:



ALTERNATE EXTERIOR
VERTICAL SEAL:



APPROVED GLASS TYPES

GLASS MAKE-UP: 1/4" TEMPERED
1/2" AIR SPACE WITH
ALUMINUM SPACER
1/4" HEAT STRENGTHENED
INTERLAYER (SEE BELOW)
1/4" HEAT STRENGTHENED

INTERLAYER TYPES

LARGE (LEVEL E) AND SMALL MISSILE:

GLASS TYPE GL1 - 0.180" SENTRYGLAS INTERLAYER
GLASS TYPE GL2 - 0.150" SAFLEX STORM INTERLAYER

LARGE (LEVEL D) AND SMALL MISSILE:

GLASS	TYPE	GL3	– 0.090"	SENTRYGLAS INTERLAYER
GLASS	TYPE	GL4	– 0.077"	SAFLEX STORM INTERLAYER
GLASS	TYPE	GL5	– 0.090"	PVB INTERLAYER

SMALL MISSILE ONLY:

GLASS TYPE GL6 – 0.060" PVB INTERLAYER

GLASS LOAD CAPACITY (PSF)									
NOMINAL DIMENSIONS		GLASS TYPE "GL1"	GLASS TYPE "GL2"	GLASS TYPE "GL3"	GLASS TYPE "GL4"		GLASS TYPE "GL5"	GLASS TYPE "GL6"	
D.L.O. WIDTH (IN)	D.L.O. HEIGHT (IN)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+)	INT (-)	EXT (+) INT (-)	EXT (+)	INT (-)
60	84	100	100	100	100	132	100	100	132
66		100	100	100	100	132	100	100	132
77 1/2		100	100	100	100	115	100	100	115
79		100	-	100	100	113	100	100	113
85		-	-	100	100	106		100	106
90 3/4		-	-	-	100	100	-	-	-
60	90	100	100	100	100	132	100	100	132
72 1/2		100	100	100	100	123	100	100	123
74		100	-	100	100	120	100	100	120
80		-	-	100	100	111	-	100	111
84 3/4		-	-	-	100	100	-	-	-
60	96	100	100	100	100	132	100	100	132
68		100	100	100	100	132	100	100	132
69		100	-	100	100	129	100	100	129
75		-	-	100	100	119	-	100	119
79 1/2		-	-	-	100	100	-	-	-
60	102	100	100	100	100	132	100	100	132
64		100	100	100	100	132	100	100	132
65		100	-	100	100	132	100	100	132
70 1/2		-	-	100	100	126	-	100	126
74 3/4		-	-	-	100	100	-	-	-
54	108	100	100	100	100	132	100	100	132
57		100	100	100	100	132	100	100	132
60		100	100	100	100	132	100	100	132
61		100	-	100	100	132	100	100	132
66 1/2		-	-	100	100	132	-	100	132
70 1/2		-	-	-	100	100	-	-	-
54	114 3/4	100	100	100	100	132	100	100	132
57		100	100	100	100	132	100	100	132
58 1/2		100	-	100	100	132	100	100	132
62 3/4				100	100	132	-	100	132
66 1/2		-	-	-	100	100	-	-	-
48	117	100	100	100	100	132	100	100	132
55 1/2		100	100	100	100	132	100	100	132
57		100	-	100	100	132	100	100	132
61 1/2		-	-	100	100	132	-	100	132
65		-	-	-	100	100	-	-	-
	120	100	100	100	100	132	100	100	132
54 1/2		100	100	100	100	132	100	100	132
55 1/2		100	-	100	100	132	-	100	132
60		-	-	100	100	132	-	100	132
63 1/2		-	-	-	100	100	-	-	-
48	126	100	100	100	100	132	100	100	132
51 3/4		100	100	100	100	132	100	100	132
52 3/4		100	-	100	100	132	-	100	132
54		-	-	100	100	132	-	100	132
57		-	-	100	100	132	-	100	132
60 1/2		-	-	-	100	100	-	-	-
48 3/4	134	100	100	100	100	132	100	100	132
49 3/4		100	-	100	100	132	-	100	132
53 3/4		-	-	100	100	132	-	100	132
57		-	-	-	100	100	-	-	-

NOTES ON ENHANCED PROTECTION FOR ESSENTIAL FACILITIES:

PER THE FBC AND ASTM E1996, ESSENTIAL FACILITIES BUILT IN WIND ZONES 3 and 4 REQUIRE LEVEL E LARGE MISSILE IMPACT RESISTANT GLAZING FOR OPENINGS IN THE LOWER 30 FT. AND LEVEL D LMI RESISTANT GLAZING ABOVE 30 ft.

ESSENTIAL FACILITIES BUILT IN WIND ZONES 1 and 2 REQUIRE LEVEL D LMI RESISTANT GLAZING FOR THE FULL HEIGHT OF THE BUILDING.

SEAL:

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FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
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RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PHYSICAL SECURITY, LLC

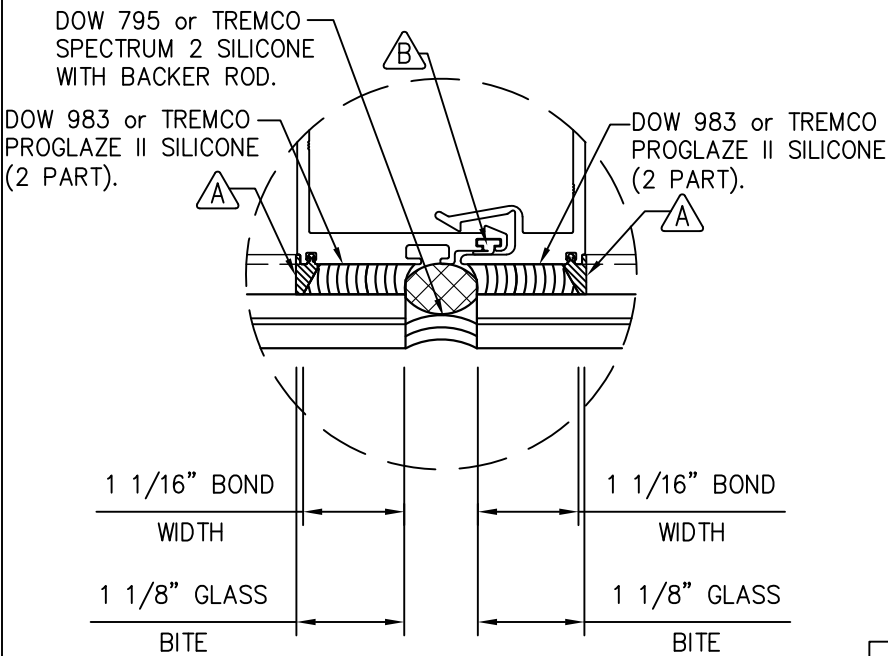
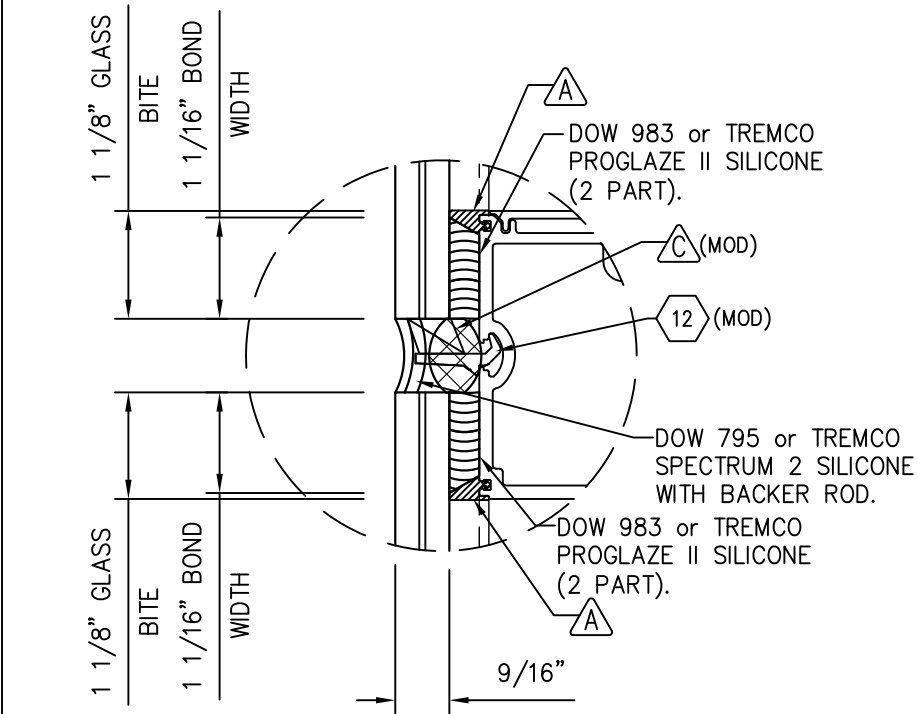
600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT3-IR

SHEET: 4/54

GLAZING DETAILS – SSG LAMINATED:



APPROVED GLASS TYPES

LARGE (LEVEL D) AND SMALL MISSILE:

GLASS TYPE GL7 – 1/4" HEAT STRENGTHENED
0.077" SAFLEX STORM INTERLAYER
1/4" HEAT STRENGTHENED

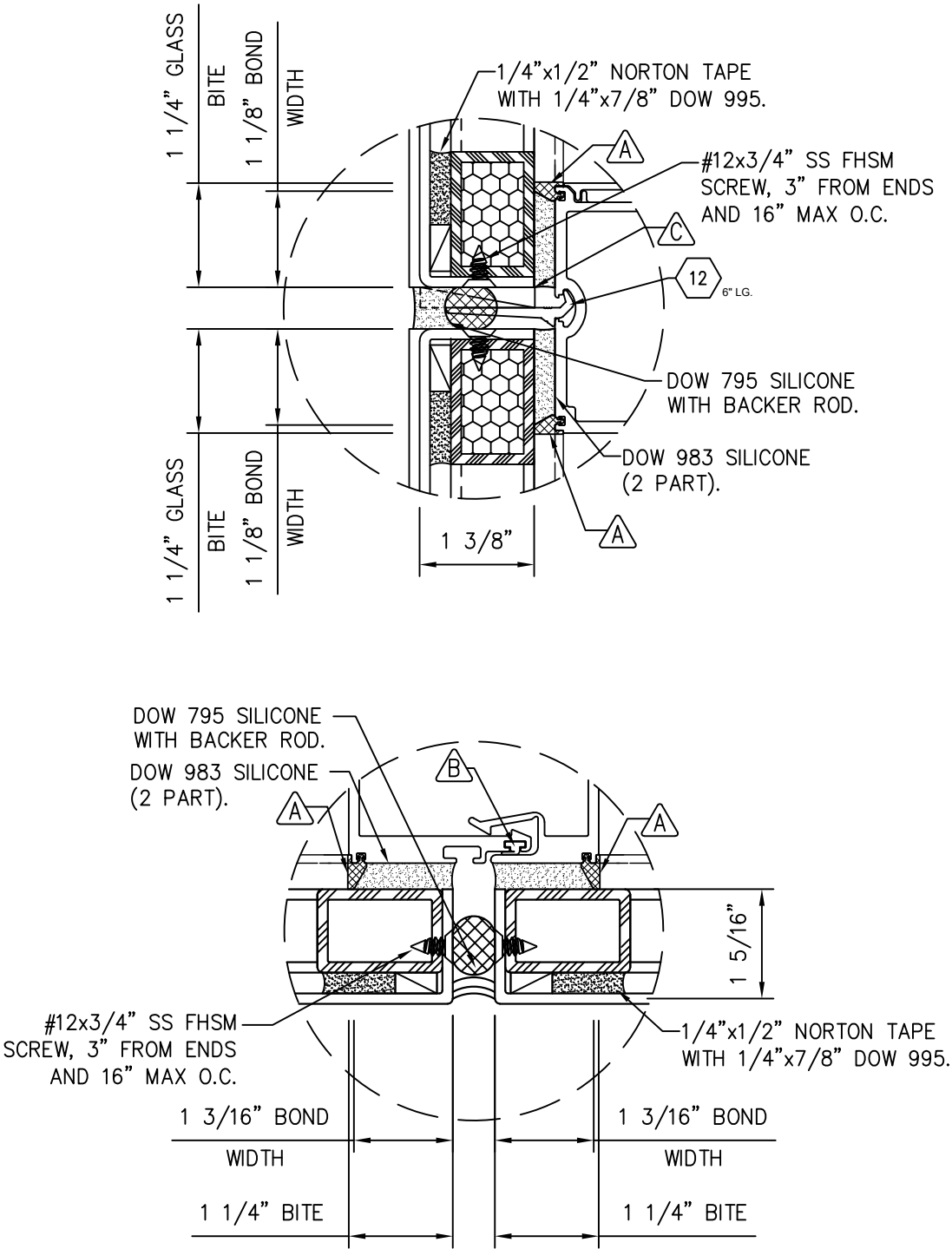
GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMENSIONS		GLASS TYPE "GL7"
D.L.O. WIDTH (IN)	D.L.O. HEIGHT (IN)	EXT (+) INT (-)
60	84	115
66		115
77 1/4		115
77 3/4		100
57	90	115
60		115
72		115
72 1/2		100
60	96	115
67 1/2		115
68		100
54		115
57	102	115
63 1/2		115
64		100
48		115
54	108	115
60		115
60 1/2		100
48		115
54	114	115
57		115
57 3/8		100
48		115
56 1/2	114 3/4	115
57		100
48	120	115
54		115
54 1/2		100
42		115
49	132	115
49 1/2		100

NOTES ON ENHANCED PROTECTION FOR ESSENTIAL FACILITIES:

PER THE FBC AND ASTM E1996, ESSENTIAL FACILITES BUILT IN WIND ZONES 3 and 4 REQUIRE LEVEL E LARGE MISSILE IMPACT RESISTANT GLAZING FOR OPENINGS IN THE LOWER 30 FT. AND LEVEL D LMI RESISTANT GLAZING ABOVE 30 ft.

ESSENTIAL FACILITIES BUILT IN WIND ZONES 1 and 2 REQUIRE LEVEL D LMI RESISTANT GLAZING FOR THE FULL HEIGHT OF THE BUILDING.

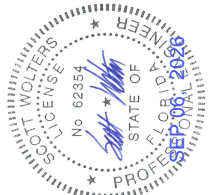
METAL PANEL "MP-1"
((LEVEL E) LARGE & SMALL MISSILE)



METAL PANEL NOTES:

1. MAX PANEL WIDTH = 63 1/4 in.
2. PANEL FRAMES ARE MADE FROM 1"x1 1/2"x1/8" ALUMINUM TUBES (6063-T6). PERIMETER TUBES ARE MITER CUT AND WELDED AT THE CORNERS. INTERMEDIATE HORIZONTALS ARE SQUARE CUT, BUTTED, AND WELDED TO THE VERTICALS AT EACH END.
3. MAXIMUM SPACING FOR HORIZONTAL FRAME TUBES = 14 in O.C.
4. 1/8" BRAKE-FORMED ALUMINUM SKINS (3003-H14) HAVE 1 3/8" RETURNS, WELDED AT THE CORNERS.
5. SKINS ARE STRUCTURALLY SEALED TO FRAMES AT THE PERIMETER WITH 7/8" WIDE DOW 995 SEALANT, AND MECHANICALLY FASTENED AT THE RETURNS WITH #12x3/4" SS FHSM SCREWS, 16" MAX O.C.

METAL PANEL CAPACITY (PSF) SSG MULLIONS		
NOMINAL DIMENSIONS		METAL PANEL "MP-1" (LMI AND SMI)
PANEL WIDTH (IN)	PANEL HEIGHT (IN)	EXTERIOR (+) & INTERIOR (-)
48	120	100
54		100
60		100
63 1/4		100
48	132	100
54		100
60		100
63 1/4		100
48	143 1/2	100
54		100
60		100
63 1/4		100
42	156	100
48		100
54		100
58		100
42	168	100
48		100
54		100
42	180	100
48		100
50		100



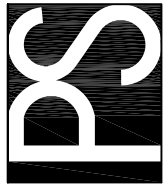
SEAL:

SCOTT WALTERS
FL PE# 62354

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020



DWG:

RT3-IR

SHEET:

5/54

WALTERS ENGINEERING
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(561) 225-1982

REVISION - ADDED PANEL

14

10/31/25

GLASS REVISION

8

2020 CODE UPDATE

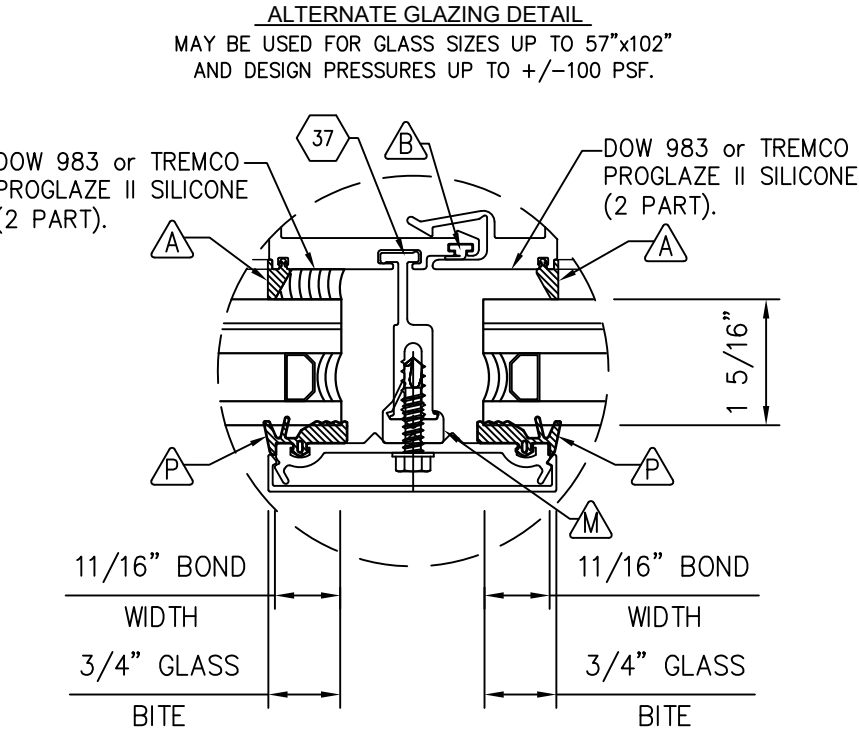
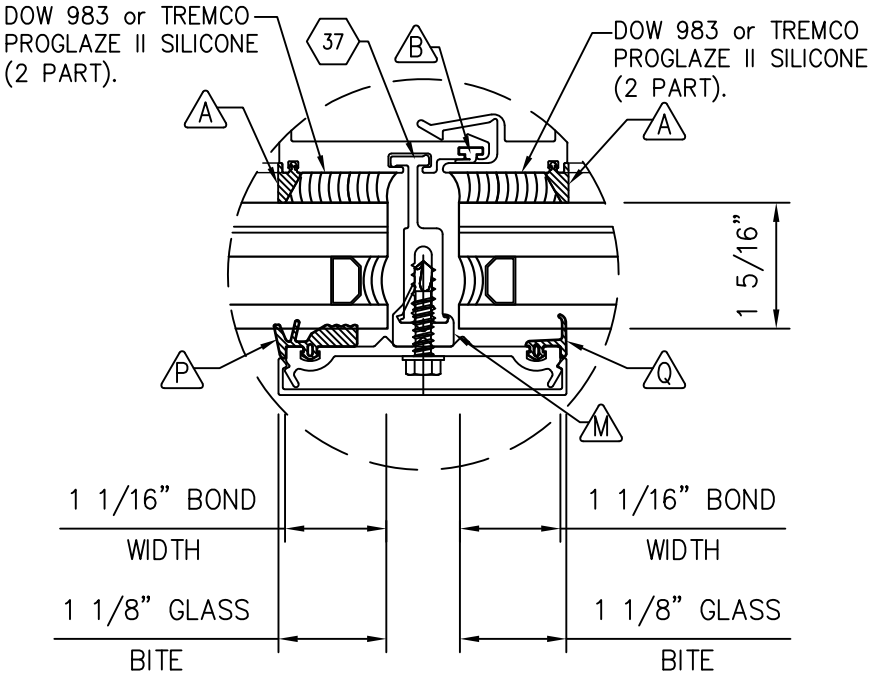
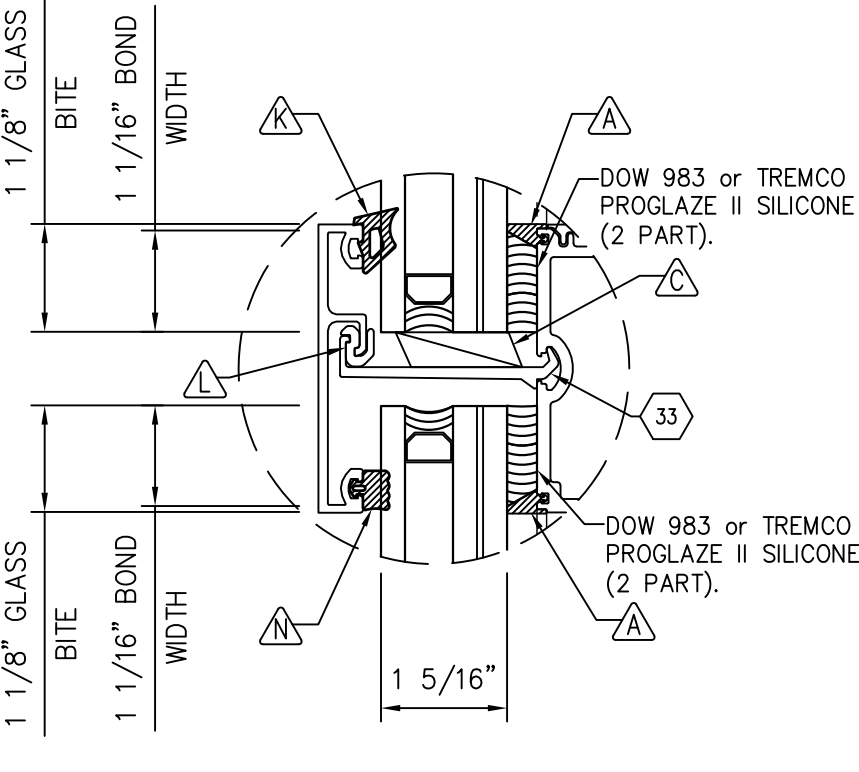
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PRINTS ISSUED FOR

REV.#

DATE

GLAZING DETAILS – CAPTURED INSULATED LAMINATED:



NOTES ON ENHANCED PROTECTION FOR ESSENTIAL FACILITIES:

PER THE FBC AND ASTM E1996, ESSENTIAL FACILITES BUILT IN WIND ZONES 3 and 4 REQUIRE LEVEL E LARGE MISSILE IMPACT RESISTANT GLAZING FOR OPENINGS IN THE LOWER 30 FT. AND LEVEL D LMI RESISTANT GLAZING ABOVE 30 ft.

ESSENTIAL FACILITIES BUILT IN WIND ZONES 1 and 2 REQUIRE LEVEL D LMI RESISTANT GLAZING FOR THE FULL HEIGHT OF THE BUILDING.

APPROVED GLASS TYPES

GLASS MAKE-UP:

- 1/4" TEMPERED
- 1/2" AIR SPACE WITH ALUMINUM SPACER
- 1/4" HEAT STRENGTHENED INTERLAYER (SEE BELOW)
- 1/4" HEAT STRENGTHENED

INTERLAYER TYPES

LARGE (LEVEL E) AND SMALL MISSILE:

GLASS TYPE GL8 – 0.180" SENTRYGLAS INTERLAYER
GLASS TYPE GL9 – 0.150" SAFLEX STORM INTERLAYER

LARGE (LEVEL D) AND SMALL MISSILE:

GLASS TYPE GL10 – 0.090" SENTRYGLAS INTERLAYER
GLASS TYPE GL11 – 0.077" SAFLEX STORM INTERLAYER
GLASS TYPE GL12 – 0.090" PVB INTERLAYER

SMALL MISSILE ONLY:

GLASS TYPE GL14 – 0.060" PVB INTERLAYER

GLASS LOAD CAPACITY (PSF)									
NOMINAL DIMENSIONS		GLASS TYPE "GL8"	GLASS TYPE "GL9"	GLASS TYPE "GL10"	GLASS TYPE "GL11"		GLASS TYPE "GL12"	GLASS TYPE "GL14"	
D.L.O. WIDTH (IN)	D.L.O. HEIGHT (IN)	EXT (+) INT(-)	EXT (+) INT(-)	EXT (+) INT(-)	EXT (+) INT(-)	EXT (+) INT(-)	EXT (+) INT(-)	EXT (+) INT(-)	EXT (+) INT(-)
60	96	120	100	135	100	132	100	120	132
68		120	100	135	100	132	100	120	132
69		120	-	135	100	132	100	120	132
70 1/2		120	-	135	100	132	-	100	132
75		-	-	135	100	132	-	100	132
79 1/2		-	-	135	100	100	-	-	-
84	102	-	-	135	-	-	-	-	-
60		120	100	135	100	132	100	120	132
64		120	100	135	100	132	100	120	132
65		120	-	135	100	132	100	120	132
66 1/2		120	-	135	100	132	-	100	132
70 1/2		-	-	135	100	132	-	100	132
74 1/2	108	-	-	135	100	100	-	-	-
79 1/4		-	-	135	-	-	-	-	-
54		120	100	135	100	132	100	120	132
60		120	100	135	100	132	100	120	132
61 1/2		120	-	135	100	132	100	120	132
62 1/2		120	-	135	100	132	-	100	132
66 1/2	114 3/4	-	-	135	100	132	-	100	132
70 1/2		-	-	135	100	100	-	-	-
75		-	-	135	-	-	-	-	-
54		120	100	135	100	132	100	120	132
57		120	100	135	100	132	100	120	132
58		120	-	135	100	132	100	120	132
58 1/2	117	120	-	135	100	132	-	100	132
62 3/4		-	-	135	100	132	-	100	132
66 1/2		-	-	135	100	100	-	-	-
70 1/2		-	-	135	-	-	-	-	-
48		120	100	135	100	132	100	120	132
56		120	100	135	100	132	100	120	132
57	120	120	-	135	100	132	100	120	132
58		120	-	135	100	132	-	100	132
61 1/2		-	-	135	100	132	-	100	132
65		-	-	135	100	100	-	-	-
69 1/4		-	-	135	-	-	-	-	-
48		120	100	135	100	132	100	120	132
54 1/2	126	120	100	135	100	132	100	120	132
55 1/2		120	-	135	100	132	100	120	132
56 1/2		120	-	135	100	132	-	100	132
60		-	-	135	100	132	-	100	132
63 1/2		-	-	135	100	100	-	-	-
67 1/2		-	-	135	-	-	-	-	-
50	134	120	100	135	100	132	100	120	132
52		120	100	135	100	132	100	120	132
53		120	-	135	100	132	100	120	132
53 1/2		120	-	135	100	132	-	100	132
57		-	-	135	100	132	-	100	132
60 1/2		-	-	135	100	100	-	-	-
64 1/4	144	-	-	135	-	-	-	-	-
48 1/2		120	100	135	100	132	100	120	132
49 3/4		120	-	135	100	132	100	120	132
50 1/2		120	-	135	100	132	-	100	132
53 3/4		-	-	135	100	132	-	100	132
57		-	-	135	100	100	-	-	-
60 1/4	168	-	-	135	-	-	-	-	-
45		120	100	135	100	132	100	100	132
46 1/4		120	-	135	100	132	100	100	132
47		120	-	135	100	132	-	100	132
50		-	-	135	100	132	-	100	132
53		-	-	135	100	100	-	-	-
56 1/4		-	-	135	-	-	-	-	-
38 3/4		120	100	135	100	132	100	120	132
39 1/2		120	-	135	100	132	100	100	132
40 1/4		120	-	135	100	132	-	100	132
42 3/4		-	-	135	100	132	-	100	132
45 1/4		-	-	135	100	100	-	-	-
48		-	-	135	-	-	-	-	-

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION 15 9/6/26

REVISION 13 8/25/25

REVISION 10 9/3/24

GLASS REVISION 8 8/31/23

2020 CODE UPDATE 5 10/19/21

PRINTS ISSUED FOR REV.#

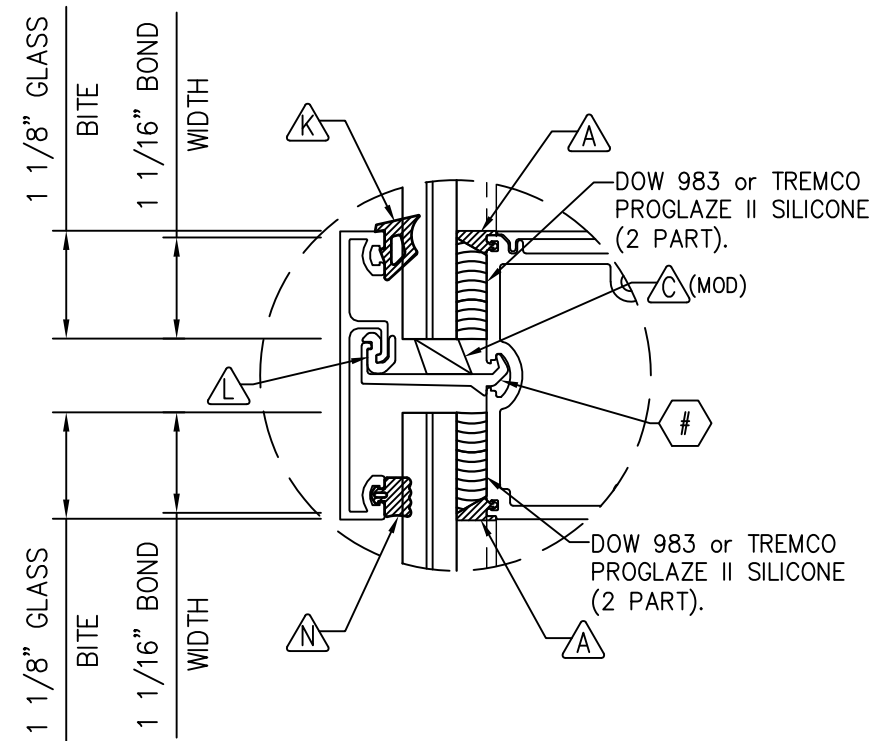
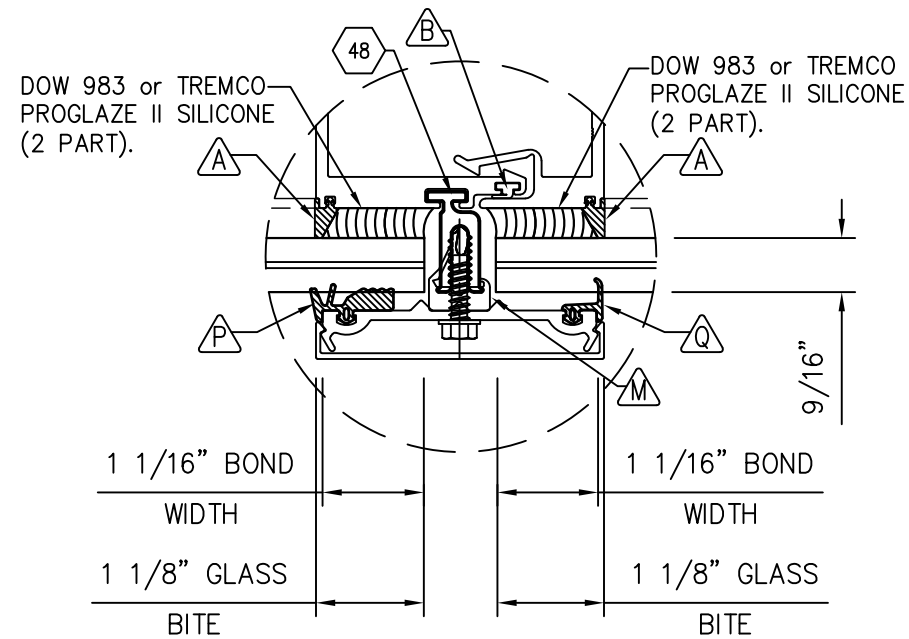
DATE

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT3-IR

SHEET: 6/54

GLAZING DETAILS – CAPTURED LAMINATED:



APPROVED GLASS TYPES

LARGE (LEVEL D) AND SMALL MISSILE:

GLASS TYPE GL15 - 1/4" HEAT STRENGTHENED
0.077" SAFLEX STORM INTERLAYER
1/4" HEAT STRENGTHENED

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMENSIONS		GLASS TYPE "GL15"
D.L.O. WIDTH (IN)	D.L.O. HEIGHT (IN)	EXT (+) INT (-)
60	84	120
66		120
77 3/4		120
79		100
57	90	120
60		120
72 1/2		120
74		100
54	96	120
60		120
68		120
69 1/4		100
57	102	120
60		120
64		120
65 1/4		100
48	108	120
54		120
60 1/2		120
61 3/4		100
48	114 3/4	120
54		120
57		120
58		100
48	117	120
56 1/2		120
57		100
48	120	120
54 1/2		120
55 1/2		100
42	132	120
49		120
49 1/2		120
50 1/2		100

NOTES ON ENHANCED PROTECTION FOR ESSENTIAL FACILITIES:

PER THE FBC AND ASTM E1996, ESSENTIAL FACILITIES BUILT IN WIND ZONES 3 and 4 REQUIRE LEVEL E LARGE MISSILE IMPACT RESISTANT GLAZING FOR OPENINGS IN THE LOWER 30 FT. AND LEVEL D LMI RESISTANT GLAZING ABOVE 30 ft.

ESSENTIAL FACILITIES BUILT IN WIND ZONES 1 and 2 REQUIRE LEVEL D LMI RESISTANT GLAZING FOR THE FULL HEIGHT OF THE BUILDING.

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
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(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

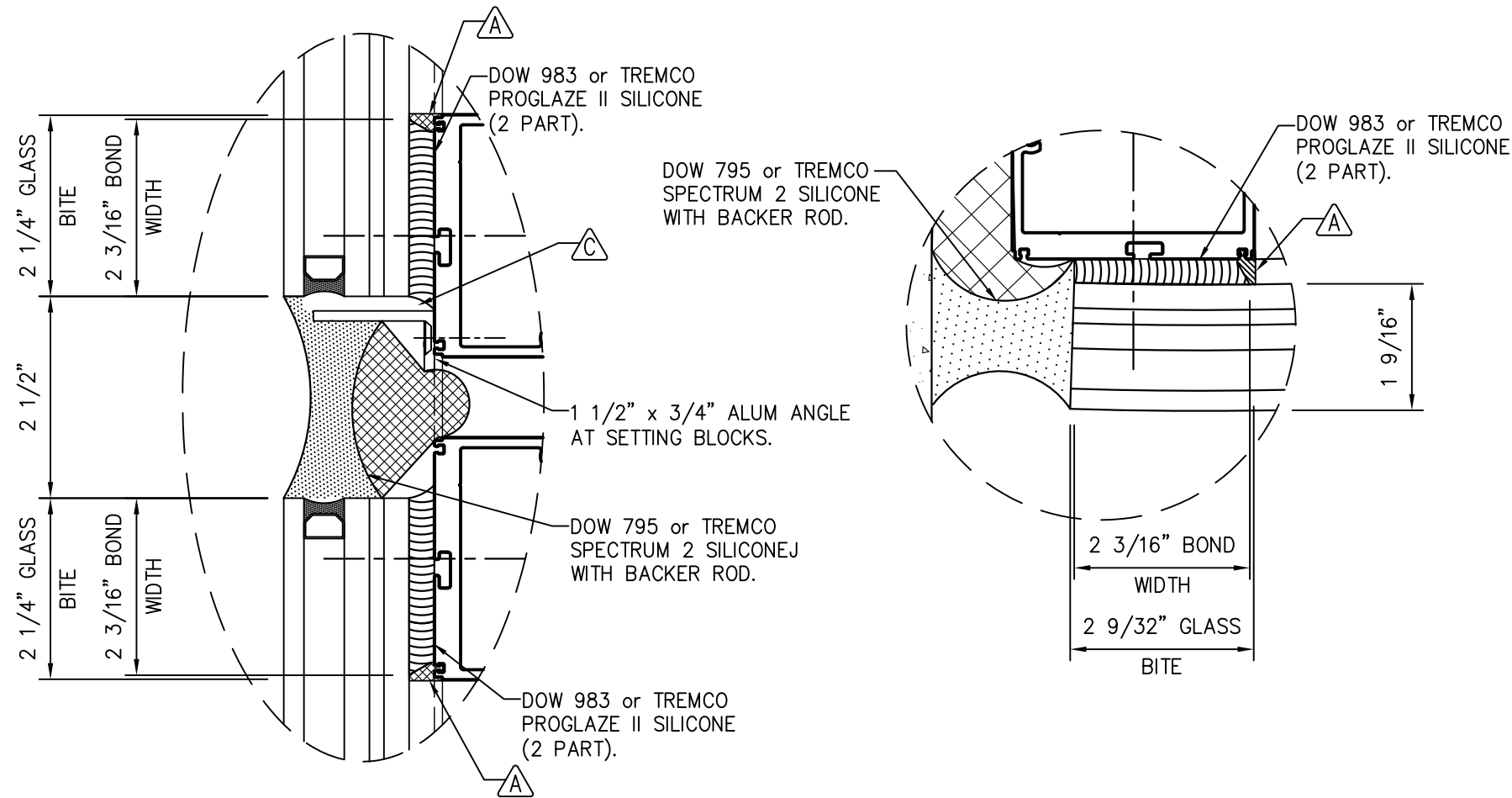
PHONE: (205)425-4072
FAX: (205)426-3937



DWG:	RT3-IR
------	--------

SHEET: 7/54

GLAZING DETAILS – CURVED SSG INSULATED LAMINATED:



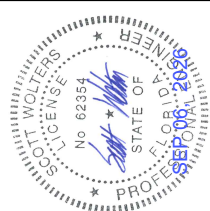
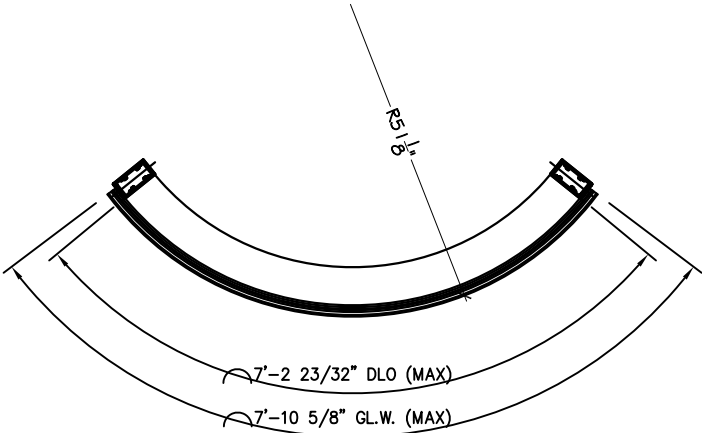
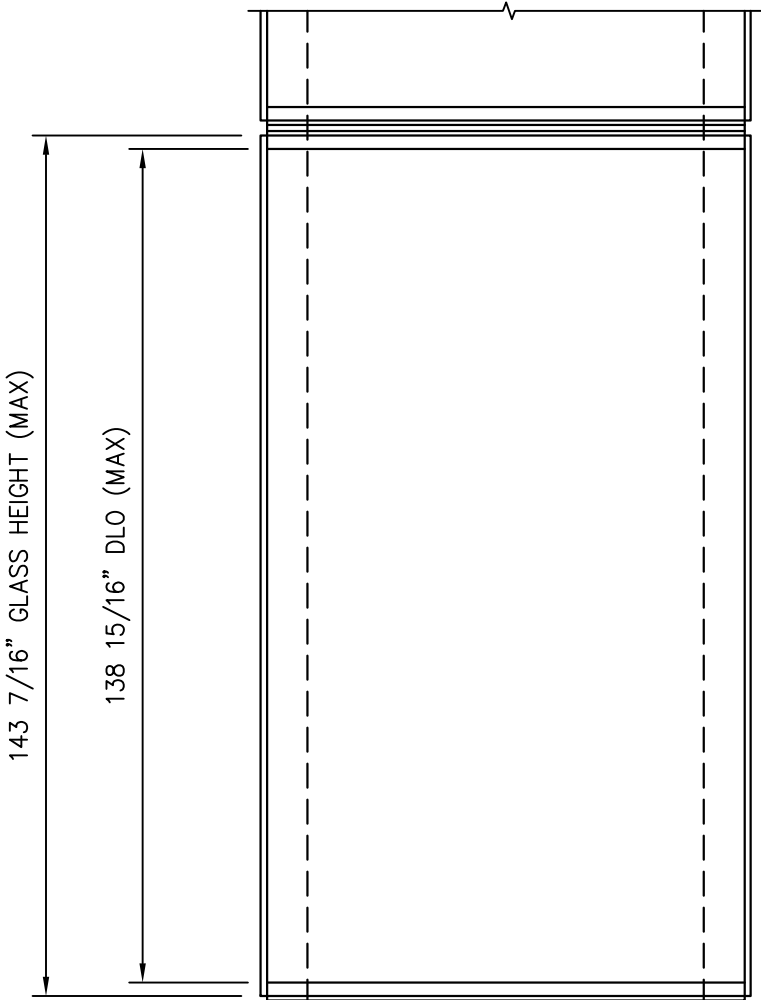
APPROVED GLASS TYPES

LARGE (LEVEL E) AND SMALL MISSILE:

GLASS TYPE GL16:

GLASS MAKE-UP: 1/4" TEMPERED
1/2" AIR SPACE WITH ALUMINUM SPACER
5/16" HEAT STRENGTHENED
0.180" SENTRYGLAS INTERLAYER
5/16" HEAT STRENGTHENED

MAX DESIGN PRESSURE = +100/-135 psf



SEAL: SCOTT WALTERS
FL PE# 62354
WALTERS ENGINEERING
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RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
REVISION	12	5/2/25	DATE
PRINTS	ISSUED	FOR	REV.#

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

SINGLE SPAN MULLIONS:

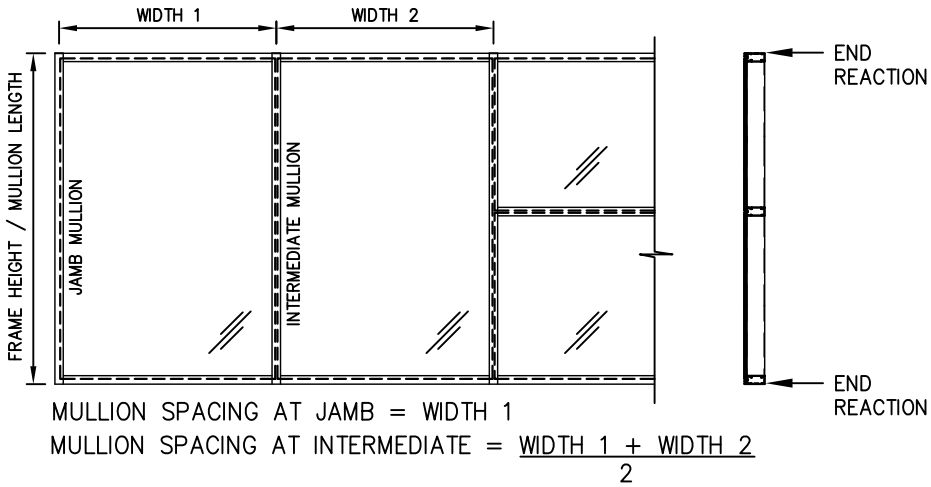
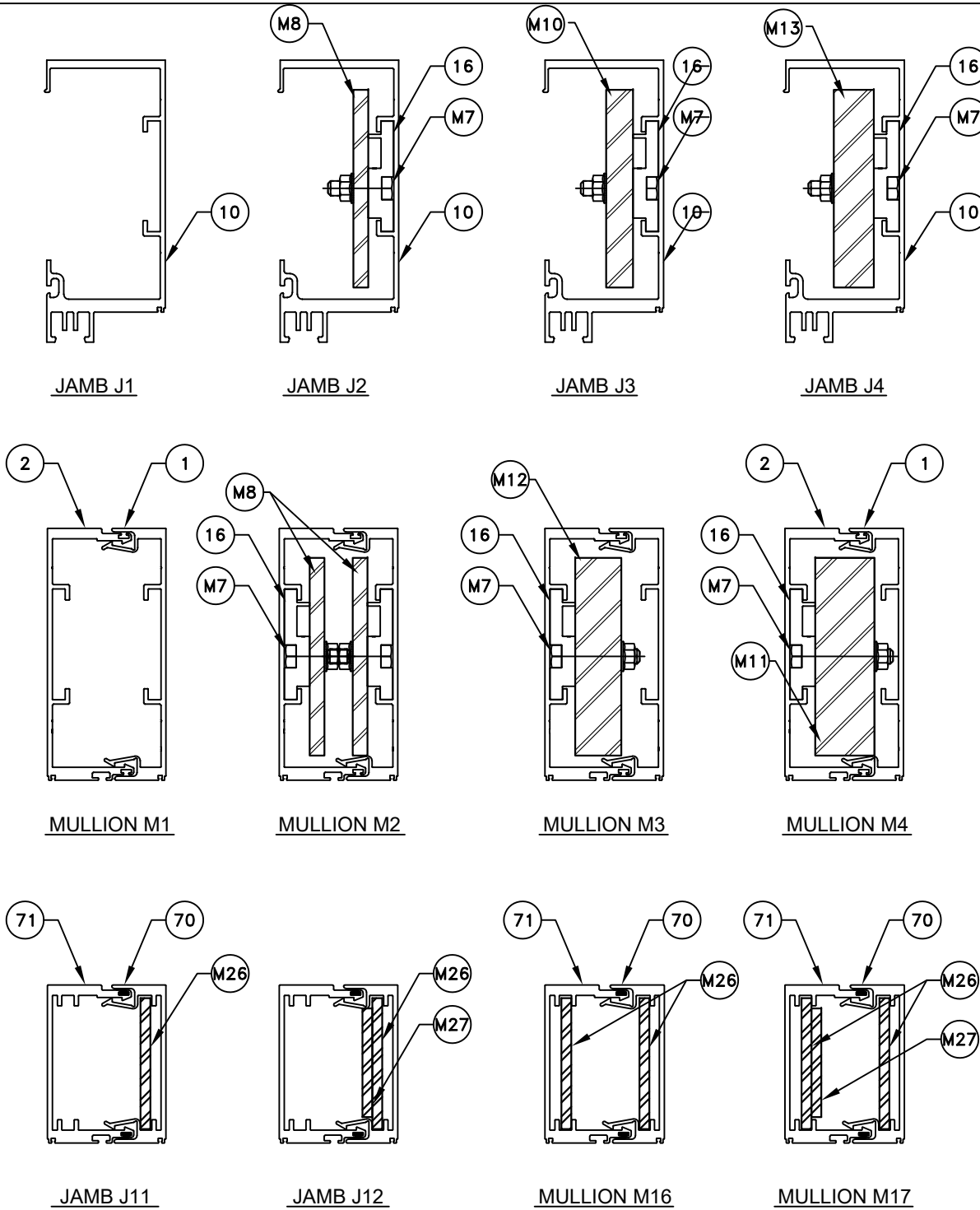
		MULLION CAPACITY (PSF)							
NOMINAL DIMENSIONS		JAMB "J1"	JAMB "J2"	JAMB "J11"	JAMB "J2"	MULLION "M1"	MULLION "M2"	MULLION "M16"	MULLION "M17"
MULLION SPACING (IN)	MULLION HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
53	108	115	120	84	100	115	120	84	100
60		115	120	-	100	115	120	-	100
66		115	120	-	-	115	120	-	-
72		115	120	-	-	106	120	-	-
78		115	120	-	-	98	120	-	-
86		-	120	-	-	-	120	-	-
50 1/2	114	115	120	84	100	115	120	84	100
56 1/2		115	120	-	90	115	120	-	90
63		115	120	-	-	115	120	-	-
66		115	120	-	-	110	120	-	-
72		115	120	-	-	101	120	-	-
78		-	120	-	-	-	120	-	-
81	120	-	120	-	-	-	120	-	-
48		115	120	84	91	115	120	84	91
51		115	120	-	85.7	115	120	-	85.7
54		115	120	-	81	115	120	-	81
60		115	120	-	-	115	120	-	-
66		104	120	-	-	104	120	-	-
70	126	98.5	120	-	-	98.5	120	-	-
77		-	120	-	-	-	120	-	-
48		110.5	120	-	78.7	110.5	120	-	78.7
51		110.5	120	-	74	110.5	120	-	74
57		109.5	120	-	-	109.5	120	-	-
60		104	120	-	-	104	120	-	-
66	132	94.5	120	-	-	94.5	120	-	-
72		-	120	-	-	-	120	-	-
48		106	120	-	68.4	106	120	-	68.4
51		105.9	120	-	-	105.9	120	-	-
54		100	120	-	-	100	120	-	-
60		90	120	-	-	90	120	-	-
63	138	85.7	120	-	-	85.7	120	-	-
70		-	120	-	-	-	120	-	-
45		100	120	-	-	101.5	120	-	-
48		100	120	-	-	98.7	120	-	-
51		100	120	-	-	92.9	120	-	-
54		100	120	-	-	87.8	120	-	-
60	140	100	120	-	-	79	120	-	-
66		-	120	-	-	71.8	120	-	-
45		100	120	-	-	100	120	-	-
48		100	120	-	-	93.7	120	-	-
51		100	120	-	-	88.2	120	-	-
54		100	120	-	-	83.3	120	-	-
60	144	100	120	-	-	75	120	-	-
66		-	120	-	-	-	120	-	-
45		100	120	-	-	92.8	120	-	-
48		100	120	-	-	87	120	-	-
51		100	120	-	-	82	120	-	-
54		100	120	-	-	77	120	-	-
58	150	100	120	-	-	72	120	-	-
64		-	120	-	-	-	114	-	-
42		100	120	-	-	88	120	-	-
45		100	120	-	-	82	120	-	-
48		100	120	-	-	77	120	-	-
51		100	120	-	-	72.5	120	-	-
57 1/2	154 1/2	100	120	-	-	64.4	112.1	-	-
60		-	120	-	-	-	107.5	-	-
42		100	120	-	-	80.6	120	-	-
45		100	120	-	-	75.3	120	-	-
48		100	120	-	-	70.6	120	-	-
51		100	120	-	-	66.4	115.6	-	-
56	154 1/2	100	120	-	-	60.5	105.3	-	-
60		-	120	-	-	-	98.3	-	-

SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.

		MULLION LOAD CAPACITY (PSF)							
NOMINAL DIMENSIONS		JAMB "J2"	JAMB "J3"	JAMB "J4"	MULLION "M2"	MULLION "M3"	MULLION "M4"		
MULLION SPACING (IN)	MULLION HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)		
48	156	120	120	120	119.6	119.6	119.6		
51		120	120	120	112.5	112.5	112.5		
54		120	120	120	106.3	106.3	106.3		
59 1/2		117.5	117.5	117.5	96.5	100	102		
66		-	102	102	-	100	102		
73		-	102	102	-	100	102		
83	168	-	102	102	-	100	100		
93		-	-	100	-	-	100		
48		116.6	102	102	95.6	100	102		
51		109.8	102	102	90	100	102		
55		101.8	102	102	83.5	100	102		
60		-	102	102	-	100	102		
68	180	-	102	102	-	100	102		
77		-	-	100	-	100	100		
81		-	-	100	-	-	100		
86 1/2		-	-	100	-	-	98		
48		94.8	102	102	77.8	100	102		
51 1/2		88.4	102	102	72.5	100	102		
54	192	-	102	102	-	100	102		
60		-	102	102	-	100	102		
63		-	102	102	-	99.2	102		
64		-	102	102	-	97.7	102		
66		-	-	100	-	94.8	98.9		
72		-	-	100	-	86.9	90.6		
80	204	-	-	97.5	-	-	81.5		
45		83.3	102	102	68.2	100	102		
48		78.1	102	102	64	100	102		
51		-	102	102	-	100	102		
54		-	102	102	-	95.5	102		
59		-	102	102	-	87.4	96.6		
60	216	-	102	102	-	86	95		
67		-	-	96	-	77	85		
75		-	-	85.7	-	-	76		
45		69.5	102	102	57	95.5	102		
48		-	102	102	-	89.6	99		
51		-	100	100	-	84.3	93.2		
54	216	-	94.5	99.3	-	79.6	88		
55		-	-	97.4	-	78.1	86.4		
60		-	-	89.3	-	71.6	79.2		
63		-	-	85.1	-	68.2	75.4		
42		62.7	102	102	51	86.2	95.3		
48		-	89.5	94.1	-	75.5	83.4		
51	216	-	84.2	88.5	-	71	78.5		
52		-	82.5	86.8	-	-	77		
53		-	81	85.2	-	-	75.5		
60		-	-	75.3	-	-	66.7		

SINGLE SPAN MULLION CHART NOTES:

1. REINFORCEMENT LENGTH IS MULLION LENGTH - 24".
2. STANDARD MULLIONS MAY BE USED AT JAMB, WITH SAME REINFORCING REQUIREMENTS AS JAMB MULLION.
3. JAMB MULLIONS AND CAULK JOINT SEALANT MUST MEET THE REQUIREMENTS OF ASTM C1472.
4. SEE SHEET 33 FOR CORNER MULLION LIMITATIONS.
5. SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

NO. 62354
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEP 08 2009

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	10	9/3/24			
GLASS REVISION	8	8/31/23			
MULLION REVISION	7	4/24/23			
2020 CODE UPDATE	5	10/19/21			
PRINTS ISSUED FOR	REV.#	DATE			

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT3-IR
SHEET: 9/54

MULTI-SPAN MULLIONS:

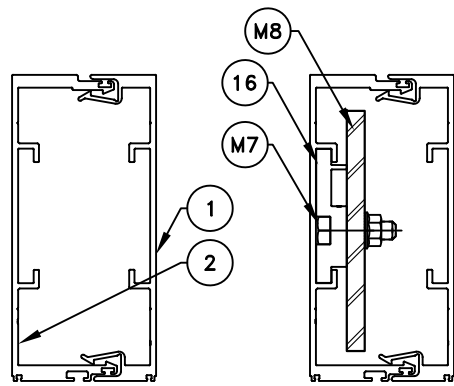
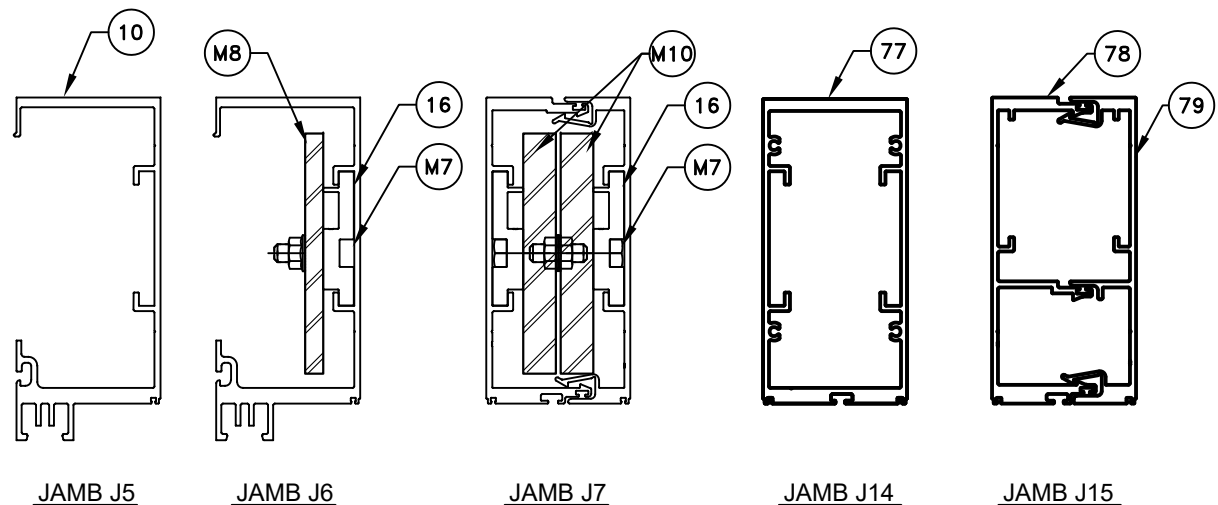
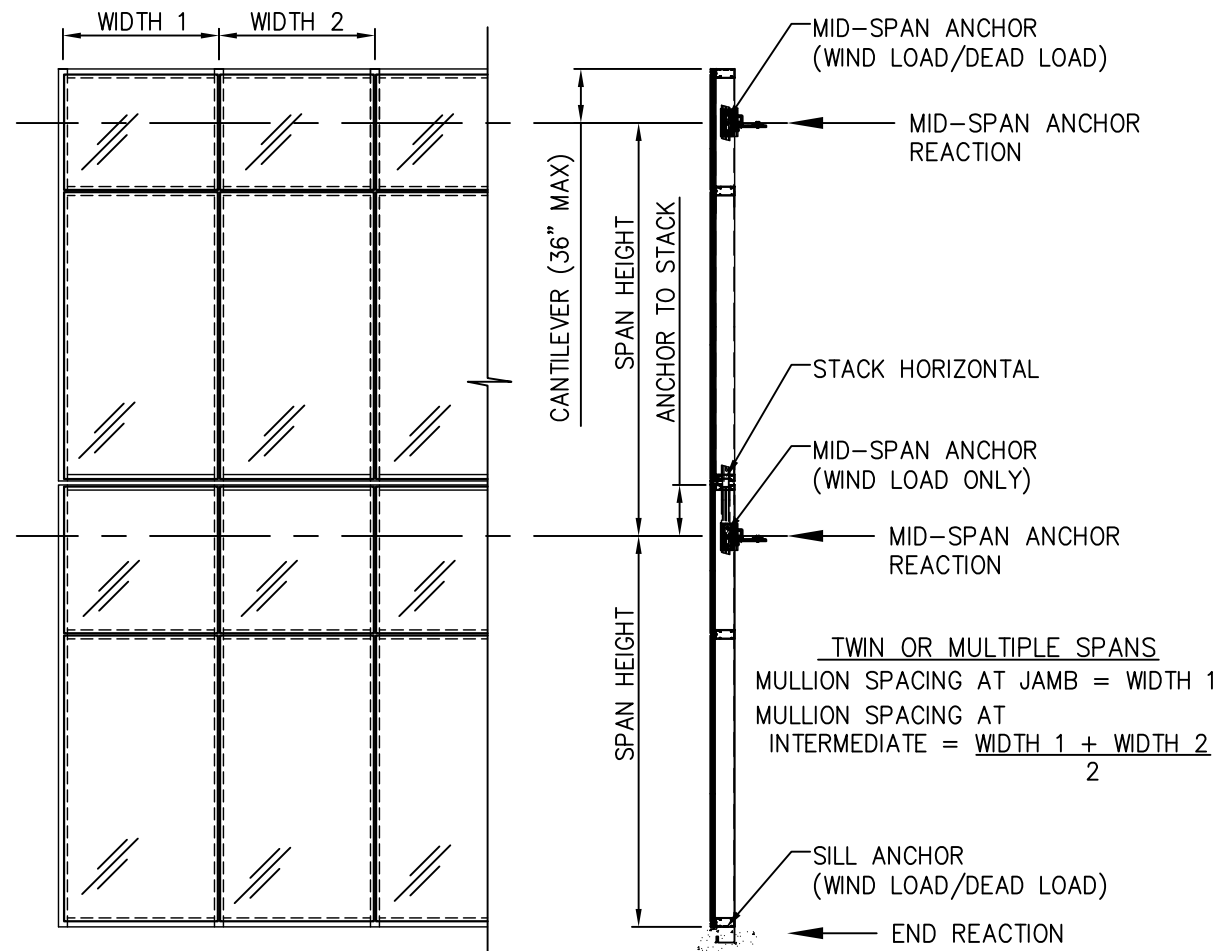
NOMINAL DIMENSIONS		MULLION LOAD CAPACITY (PSF)												
		JAMB "J5"	JAMB "J6"	JAMB "J7"	JAMB "J14"		JAMB "J15"	MULLION "M5"	MULLION "M6"	MULLION "M7"	MULLION "M8/M9"	MULLION "M10"	MULLION "M18"	MULLION "M19"
MULLION SPACING (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
62	108	90	120	120	100	135	100	90	100	120	120	120	100	100
71		90	120	120	100	135	100	90	100	120	120	120	-	100
84		90	120	120	100	135	-	90	100	120	120	120	-	-
90		90	120	120	100	135	-	90	100	120	120	120	-	-
96		-	-	-	100	135	-	-	-	-	-	-	-	-
56	120	90	120	120	100	135	100	90	100	120	120	120	100	100
64		90	120	120	100	135	100	90	100	120	120	120	-	100
72		90	120	120	100	135	-	90	100	120	120	120	-	-
87		90	120	120	100	135	-	90	100	120	120	120	-	-
96		-	-	-	100	135	-	-	-	-	-	-	-	-
50 1/2	132	90	120	120	100	135	100	90	100	120	120	120	100	100
58		90	120	120	100	135	100	90	100	120	120	120	-	100
72		90	120	120	100	135	-	90	100	120	120	120	-	-
79		90	120	120	100	135	-	90	100	120	120	120	-	-
96		-	-	-	100	135	-	-	-	-	-	-	-	-
46 1/2	144	90	120	120	100	135	100	90	100	120	120	120	100	100
48		90	120	120	100	135	100	90	100	120	120	120	-	100
53		90	120	120	100	135	-	90	100	120	120	120	-	-
60		90	120	120	100	135	-	90	100	120	120	120	-	-
72		90	120	120	100	135	-	90	100	120	120	120	-	-
96	156	-	-	-	100	135	-	-	-	-	-	-	-	-
43		90	120	120	100	135	100	90	100	120	120	120	100	100
49		90	120	120	100	135	100	90	100	120	120	120	-	100
54		90	120	120	100	135	-	90	100	120	120	120	-	-
60		90	120	120	100	135	-	90	100	120	120	120	-	-
66	90	120	120	100	135	-	90	100	120	120	120	120	-	-
96	-	-	-	100	135	-	-	-	-	-	-	-	-	-
42	160	90	100	120	100	135	100	90	100	120	120	120	100	100
48		90	100	120	100	135	100	90	100	120	120	120	-	100
54		90	100	120	100	135	-	90	100	120	120	120	-	-
60		90	100	120	100	135	-	90	100	120	120	120	-	-
66		90	100	120	100	135	-	90	100	120	120	120	-	-
96	-	-	-	100	135	-	-	-	-	-	-	-	-	-
42	162	90	100	120	100	135	100	90	100	120	120	120	100	100
48		90	100	120	100	135	100	90	100	120	120	120	-	100
54		90	100	120	100	135	-	90	100	120	120	120	-	-
60		90	100	120	100	135	-	90	100	120	120	120	-	-
64		90	100	120	100	135	-	90	100	120	120	120	-	-
96	-	-	-	100	135	-	-	-	-	-	-	-	-	-
40	168	90	100	120	100	135	100	90	100	120	120	120	94	100
45 1/2		90	100	120	100	135	90	90	100	120	120	120	-	90
54		90	100	120	100	135	-	90	100	119	119	119	-	-
60		90	100	120	100	135	-	84	100	107	107	107	-	-
62		90	100	120	100	135	-	81	100	100	100	104	-	-
96	-	-	-	100	135	-	-	-	-	-	-	-	-	-
38 1/2	174	90	100	120	100	135	97	90	100	120	120	120	90	97
44		90	100	120	100	135	85	90	100	120	120	120	-	85
48		90	100	120	100	135	-	90	100	120	120	120	-	-
54		90	100	120	100	135	-	90	95	107	107	107	-	-
60		81	100	120	100	135	-	81	86	96	100	100	-	-
94	-	-	-	100	135	-	-	-	-	-	-	-	-	-
37	180	90	100	120	100	135	98	90	100	120	120	120	87	98
42		90	100	120	100	135	82	90	100	120	120	120	-	82
48		90	100	120	100	135	-	90	99	109	109	109	-	-
54		81	100	120	100	135	-	81	88	97	100	100	-	-
60		73	90	120	100	135	-	73	79	87	90	100	-	-
90	-	-	-	100	112	-	-	-	-	-	-	-	-	-
35	192	90	100	120	100	135	85	90	100	120	120	120	80	85
40		90	100	120	100	135	75	87	97	107	107	107	-	75
48		76	94	120	100	135	-	76	85	94	94	100	-	-
54		68	83	120	100	135	-	68	75	83	83	100	-	-
60		61	75	120	100	135	-	61	68	75	75	100	-	-
85	-	-	-	100	108	-	-	-	-	-	-	-	-	-

MULTI-SPAN MULLION NOTES:

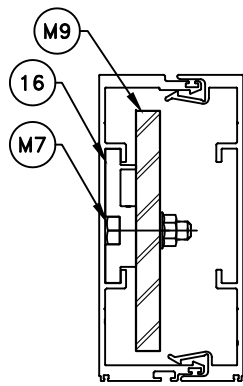
ALL MULLIONS, WITH EQUAL OR UN-EQUAL SPANS,
MUST MEET THE FOLLOWING REQUIREMENTS:

1. MAX WINDLOAD = ± 100 psf (J5 & M5)
 ± 100 psf (J15, M6, M18, & M19)
 ± 120 psf (ALL OTHER MULLIONS)
2. REINFORCEMENT LENGTH = SPAN HEIGHT - 24".
3. STANDARD MULLIONS MAY BE USED AT JAMB,
WITH SAME REINFORCING REQUIREMENTS AS
JAMB MULLION.
4. MULLIONS MUST MEET ALL OF THE FOLLOWING
REQUIREMENTS:
 - A. MAX. SPAN TRIB. AREA = 70 sqft (M5)
72.5 sqft (M6-M9)
80 sqft (M10)
46.7 sqft (M18)
53.3 sqft (M19)
 - B. MAX SPAN HEIGHT IN HVHZ = 168 in (M5)
174 in (M6-M9)
192 in (M10)
160 in (M18-M19)
 - C. MAX. DEFLECTION = $L/180$.
 - D. MAX. END REACTION = 3606 lb.
 - E. MAX. MID-SPAN REACTION = 8938 lb.
 - F. MAX. BENDING MOMENT FOR MULLION
TYPE: M5 = 118,798 in-lb.
M6 = 118,798 in-lb.
M7 = 129,980 in-lb.
M8 = 149,189 in-lb.
M9 = 149,189 in-lb.
M10 = 198,063 in-lb.
M18 = 85,725 in-lb.
M19 = 97,849 in-lb.

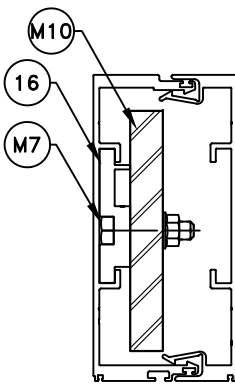
5. JAMBS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:
- A. MAX. SPAN TRIB. AREA = 36.8 sqft (J5)
38 sqft (J6)
42 sqft (J7)
57 sqft (J14)
28.3 sqft (J15)
 - B. MAX SPAN HEIGHT IN HVHZ = 168 in (J5)
174 in (J6 & J14)
192 in (J7)
160 in (J15)
 - C. MAX. DEFLECTION = $L/180$. JAMBS AND CAULK JOINT SEALANT MUST ALSO MEET THE REQUIREMENTS OF ASTM C1472.
 - C. MAX. END REACTION = 1893 lb.
 - D. MAX. MID-SPAN REACTION = 7578 lb.
 - E. MAX. BENDING MOMENT FOR JAMB
TYPE: J5 = 66,866 in-lb.
J6 = 68,240 in-lb.
J7 = 114,642 in-lb.
J14 = 116,248 in-lb.
J15 = 51,963 in-lb.
6. SEE SHEET 32 FOR CORNER MULLION LIMITATIONS.
7. SPAN TRIB. AREA = ANCHOR-TO-ANCHOR SPAN HEIGHT x MULLION SPACING (SPACING/2 AT JAMBS).



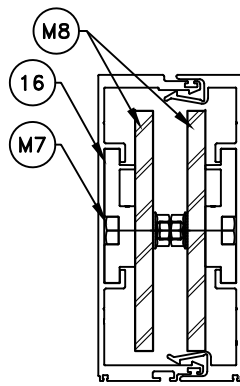
MULLION M5



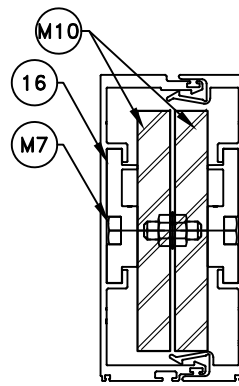
MULLION M6



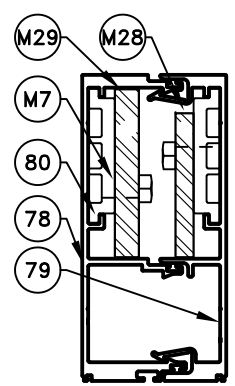
MULLION M7



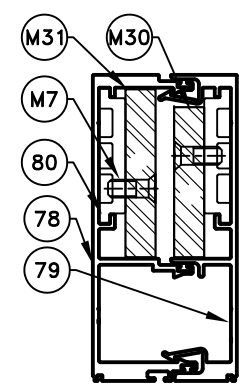
MULLION M8



MULLION M9



MULLION M10



MULLION M18

MULLION M19

MULTI-SPAN MULLION CHART NOTES:

1. THE EQUAL SPAN VALUES LISTED ABOVE ARE PROVIDED FOR CONVENIENCE, AND ARE MEANT TO BE A ROUGH GUIDE FOR THE ALLOWABLE PRESSURES FOR THE MULLIONS AND SIZES LISTED.
2. ALLOWABLE DESIGN PRESSURES CAN VARY GREATLY DEPENDING ON SPLICE LOCATIONS. ALL MULLIONS, WITH EQUAL OR UN-EQUAL SPANS, MUST MEET THE MULLION REQUIREMENTS LISTED ABOVE, AS VERIFIED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER.
3. SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.

XL MULLION CHARTS:

SINGLE SPAN MULLION LOAD CAPACITY (PSF)							
NOMINAL DIMENSIONS		JAMB "J8"	JAMB "J9"		MULLION "M11"	MULLION "M12"	
MULLION SPACING (IN)	MULLION HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)
48	144	100	120	132	100	120	132
51		100	120	132	100	120	132
57		100	120	132	100	120	132
60		100	120	132	100	120	132
66		100	120	132	100	120	132
72		100	120	132	100	120	132
75		100	120	132	100	120	132
48	156	100	120	132	100	120	132
51		100	120	132	100	120	132
57		100	120	132	100	120	132
60		100	120	132	99.7	120	132
64		100	120	132	93.5	120	132
69		100	120	132	86.7	120	132
48	168	100	120	132	99.7	120	132
51		100	120	132	93.8	120	132
54		100	120	132	88.6	120	132
57		100	120	132	84	120	132
60		100	120	132	79.8	120	132
64		100	120	132	74.8	120	132
48	180	100	120	132	80.6	120	132
51		100	120	132	75.9	120	132
54		100	120	132	71.6	120	132
57		100	120	132	67.9	120	132
60		100	120	132	64.5	120	132
45	192	100	120	132	70.8	120	132
48		100	120	132	66.4	120	132
51		96.9	116.3	128	62.5	116.3	128
54		91.5	109.8	120.8	59	109.8	120.8
56		88.3	105.9	116.5	56.9	105.9	116.5
42	204	98.1	117.7	129.5	63.3	117.7	129.5
45		91.6	109.9	120.9	59	109.9	120.9
48		85.8	103	113.3	55.4	103	113.3
51		80.8	97	106.6	52.1	97	106.6
53		77.7	93.3	102.6	50.1	93.3	102.6
42	216	82.6	99.2	109	53.3	99.2	109
45		77.1	92.6	101.8	49.7	92.6	101.8
48		72.3	86.8	95.5	46.6	86.8	95.5
50		69.4	83.5	91.6	44.8	83.5	91.6

SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.

MULTI-SPAN MULLION NOTES:

ALL MULLIONS, EQUAL AND UN-EQUAL SPANS, MUST MEET THE FOLLOWING REQUIREMENTS:

1. MAX WINDLOAD = +100 psf / -132 psf
2. MULLIONS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:
 - A. MAX. SPAN TRIB. AREA = 78.75 sqft.
 - B. MAX. SPAN HEIGHT IN HVHZ = 180 in
 - C. MAX. DEFLECTION = L/180.
 - D. MAX. END REACTION = 5020 lb.
 - E. MAX. MID-SPAN REACTION = 9745 lb.
 - F. MAX. BENDING MOMENT FOR MULLION TYPE: M14 = 175,400 in-lb.
M15 = 218,550 in-lb.
5. JAMBS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:
 - A. MAX. SPAN TRIB. AREA = 42.58 sqft.
 - B. MAX. SPAN HEIGHT IN THE HVHZ = 180 in.
 - C. MAX. DEFLECTION = L/180. JAMBS AND CAULK JOINT SEALANT MUST ALSO MEET THE REQUIREMENTS OF ASTM C1472.
 - D. MAX. END REACTION = 2715 lb.
 - E. MAX. MID-SPAN REACTION = 5265 lb.
 - F. MAX. BENDING MOMENT = 118,076 in-lb.

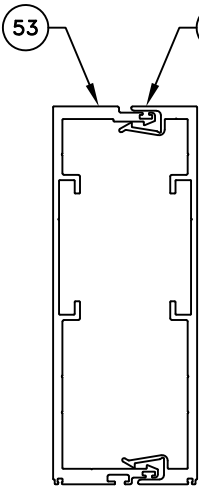
6. SEE SHEET 34 FOR CORNER MULLION LIMITATIONS.

7. SPAN TRIB. AREA = ANCHOR-TO-ANCHOR SPAN HEIGHT x MULLION SPACING. (MULLION SPACING/2 AT JAMBS).

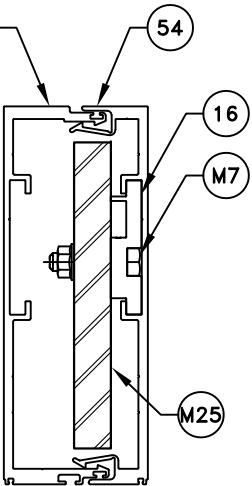
MULTI-SPAN MULLION CHART NOTES:

1. THE EQUAL SPAN VALUES LISTED ABOVE ARE PROVIDED FOR CONVENIENCE, AND ARE MEANT TO BE A ROUGH GUIDE FOR THE ALLOWABLE PRESSURES FOR THE MULLIONS AND SIZES LISTED.
2. ALLOWABLE DESIGN PRESSURES CAN VARY GREATLY DEPENDING ON SPLICE LOCATIONS. ALL MULLIONS, WITH EQUAL OR UN-EQUAL SPANS, MUST MEET THE MULLION REQUIREMENTS LISTED ABOVE, AS VERIFIED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER.
3. SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.

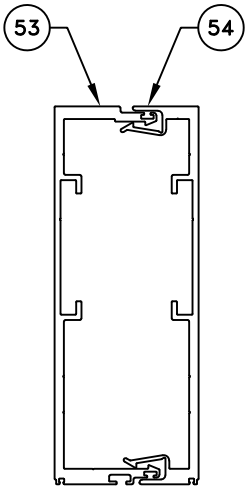
MULTI-SPAN MULLION LOAD CAPACITY (PSF) - EQUAL SPANS							
NOMINAL DIMENSIONS		JAMB "J10"		MULLION "M14"		MULLION "M15"	
MULLION SPACING (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
48	144	100	132	100	132	100	132
51		100	132	100	132	100	132
57		100	132	100	132	100	132
60		100	132	100	132	100	132
66		100	132	100	117.8	100	132
72		100	132	100	108	100	132
75		100	132	100	103.6	100	132
48	156	100	132	100	132	100	132
51		100	132	100	132	100	132
54		100	132	100	132	100	132
57		100	132	100	125	100	132
60		100	132	100	118.8	100	132
64		100	132	100	111.3	100	132
69		100	132	100	103.3	100	132
48	168	100	132	100	132	100	132
51		100	132	100	130.7	100	132
54		100	132	100	123.4	100	132
57		100	132	100	117	100	132
60		100	132	100	111.1	100	132
64		100	132	100	104.2	100	132
48	180	100	132	100	127.5	100	132
51		100	132	100	120	100	132
54		100	132	100	113.3	100	132
57		100	132	100	107.3	100	132
60		100	132	100	102	100	132
63		100	132	97	97	100	132
45	192	100	132	100	121	100	132
48		100	132	100	114	100	132
51		100	132	100	107	100	132
54		100	132	100	101	100	132
56		100	128	97	97	100	128
42	204	100	132	100	113	100	132
45		100	132	100	105.6	100	132
48		100	132	99	99	100	132
51		100	125.6	93.1	93.1	100	125.6
53		100	120.9	89.6	89.6	100	120.9
40	216	100	132	100	108	100	132
42		100	132	100	102.8	100	132
45		100	126.4	96	96	100	126.4
48		100	118.5	90	90	100	118.5
50		100	113.7	86.4	86.4	100	113.7



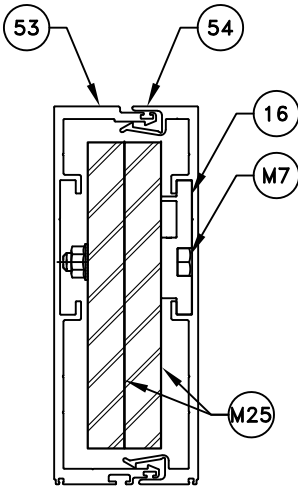
XL JAMB J8



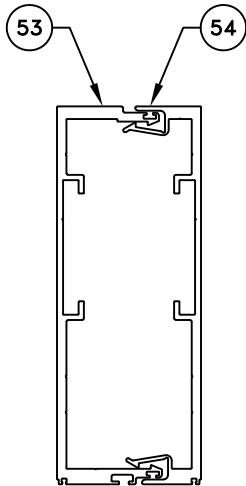
XL JAMB J9



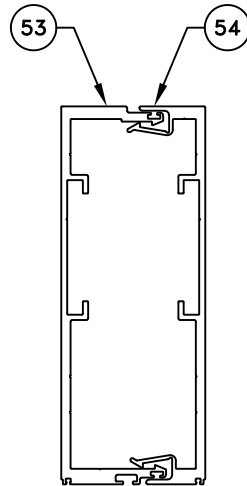
XL MULLION M11



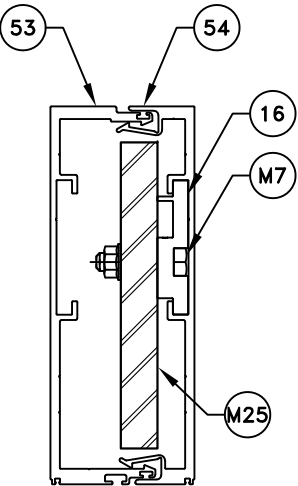
XL MULLION M12



XL JAMB J10



XL MULLION M14



XL MULLION M15

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

SEP 08 2009

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION

10

9/3/24

MULLION REVISION

7

4/24/23

2020 CODE UPDATE

5

10/19/21

PRINTS ISSUED FOR

REV.#

DATE

DESCRIPTION

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

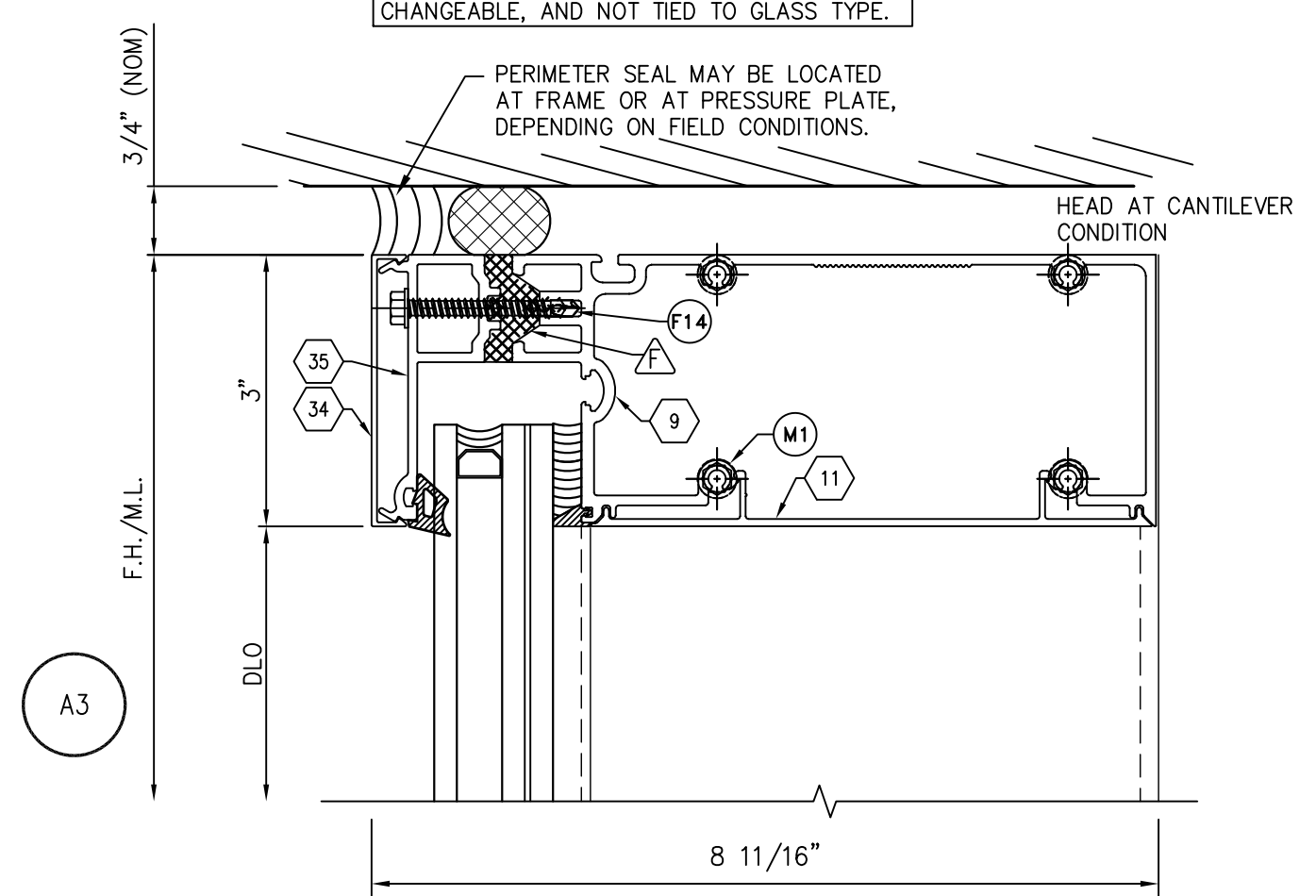
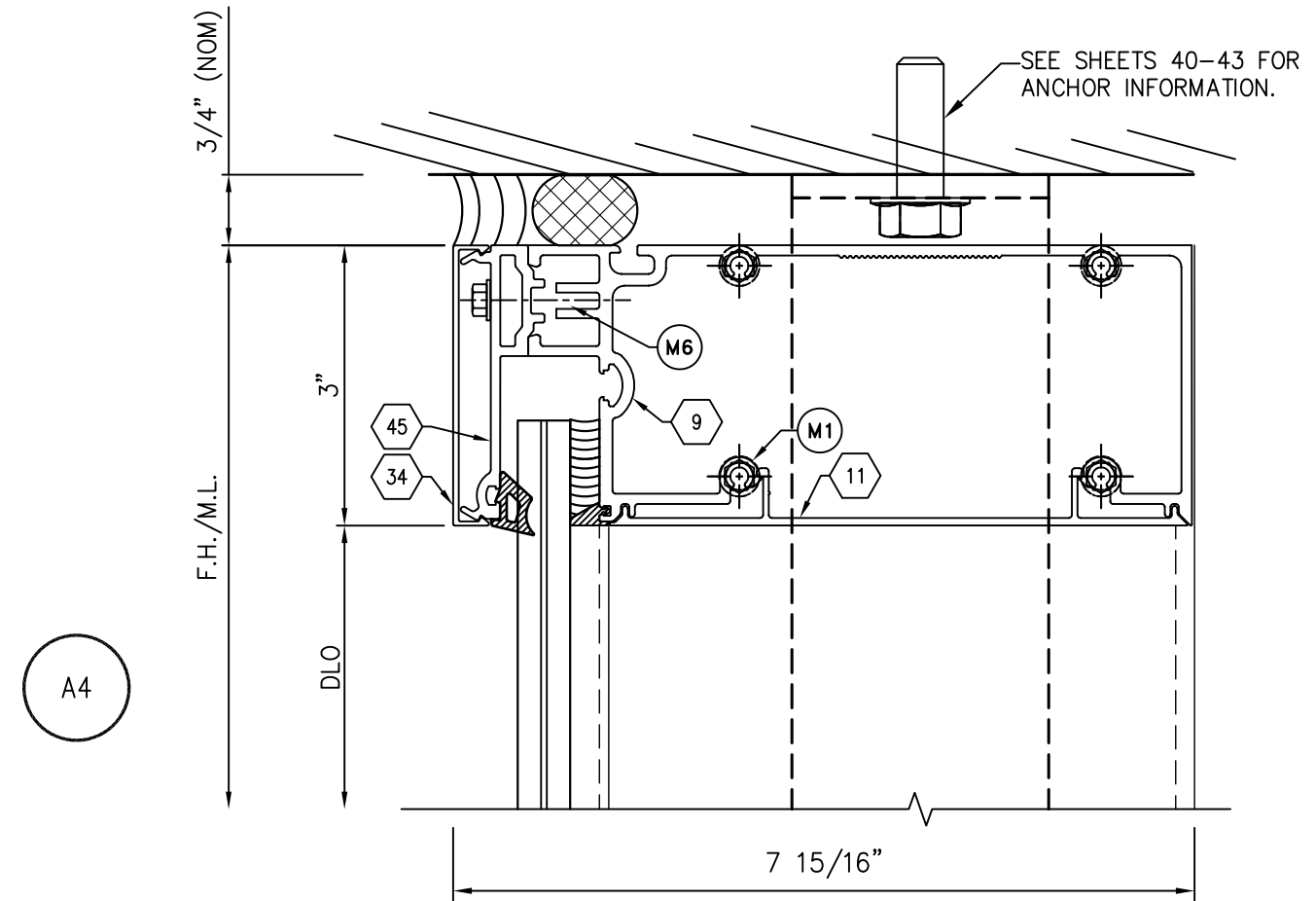
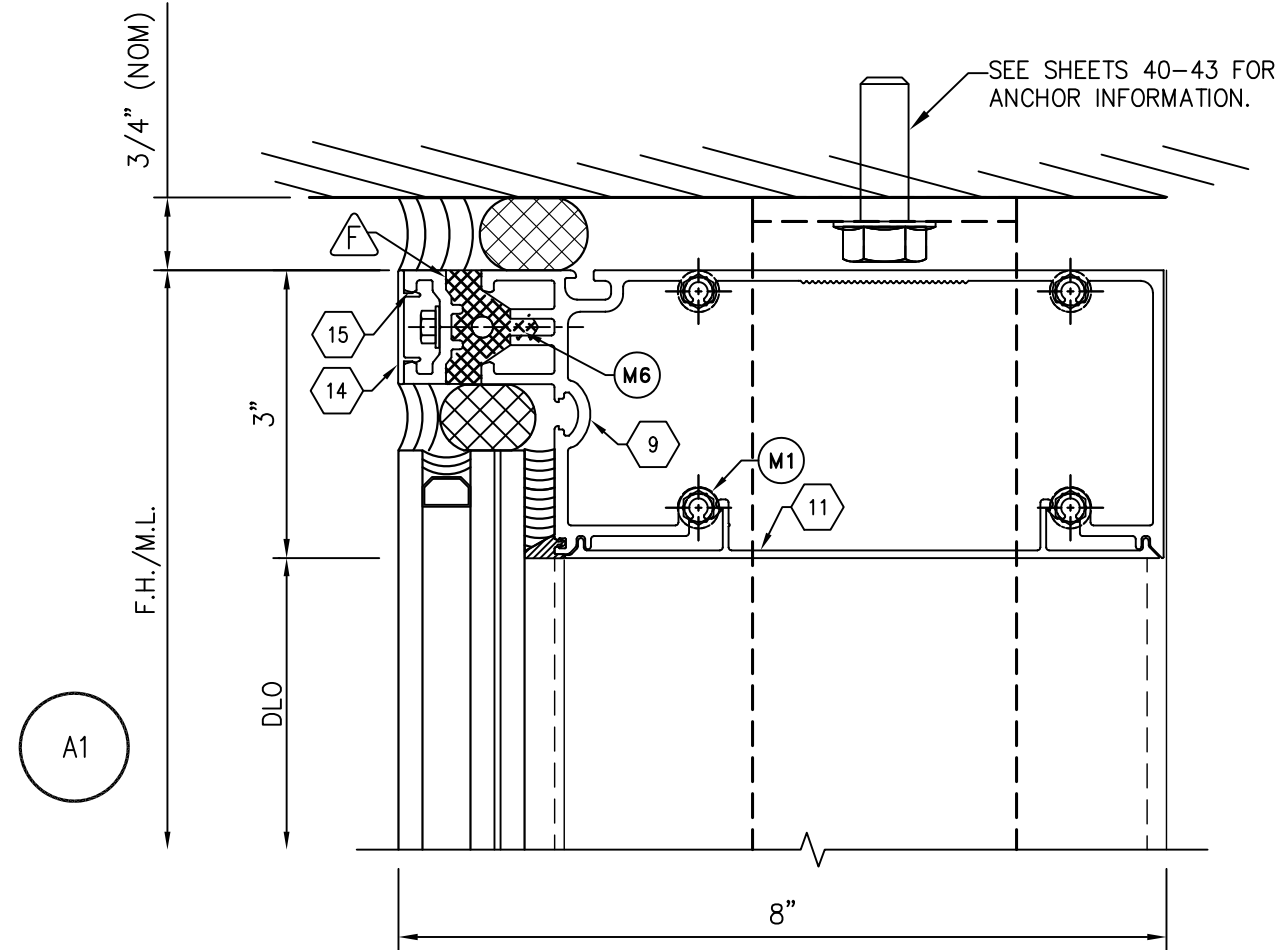
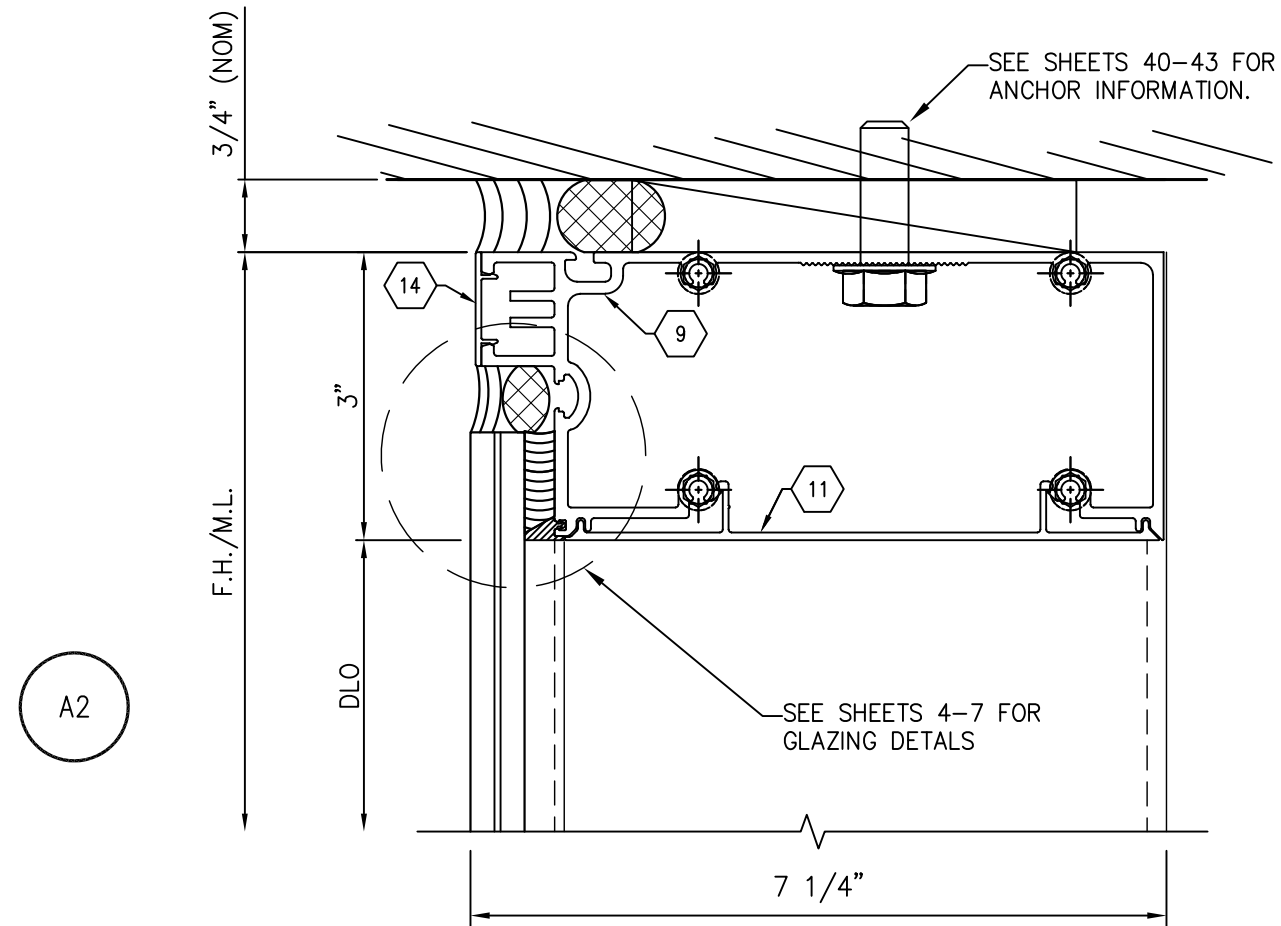
DWG:

RT3-IR

SHEET:

11/54

HEAD DETAILS:



SEE SHEETS 40-43 FOR HEAD/SILL ANCHOR
CONDITIONS. CONDITIONS SHOWN ARE INTER-
CHANGEABLE, AND NOT TIED TO GLASS TYPE.

- PERIMETER SEAL MAY BE LOCATED AT FRAME OR AT PRESSURE PLATE, DEPENDING ON FIELD CONDITIONS.

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

[illegible]

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

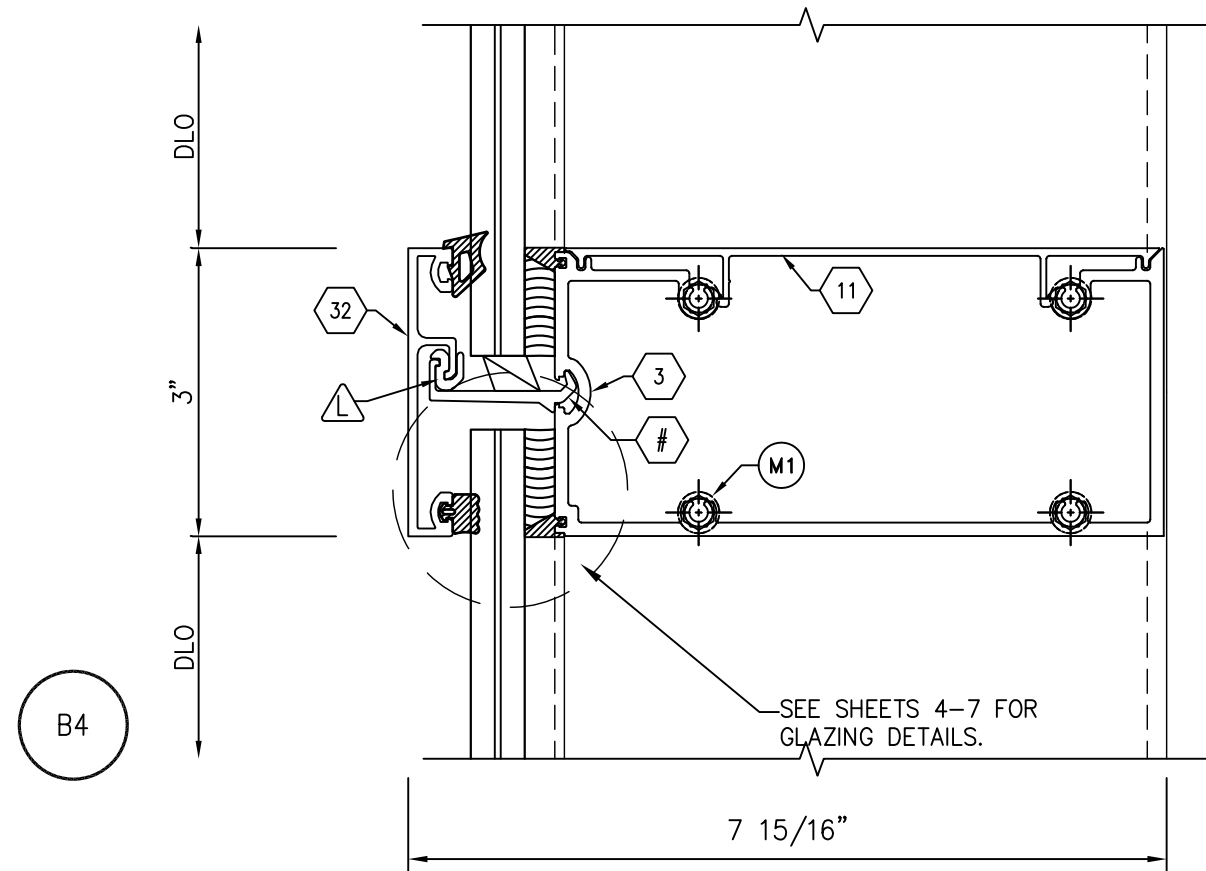
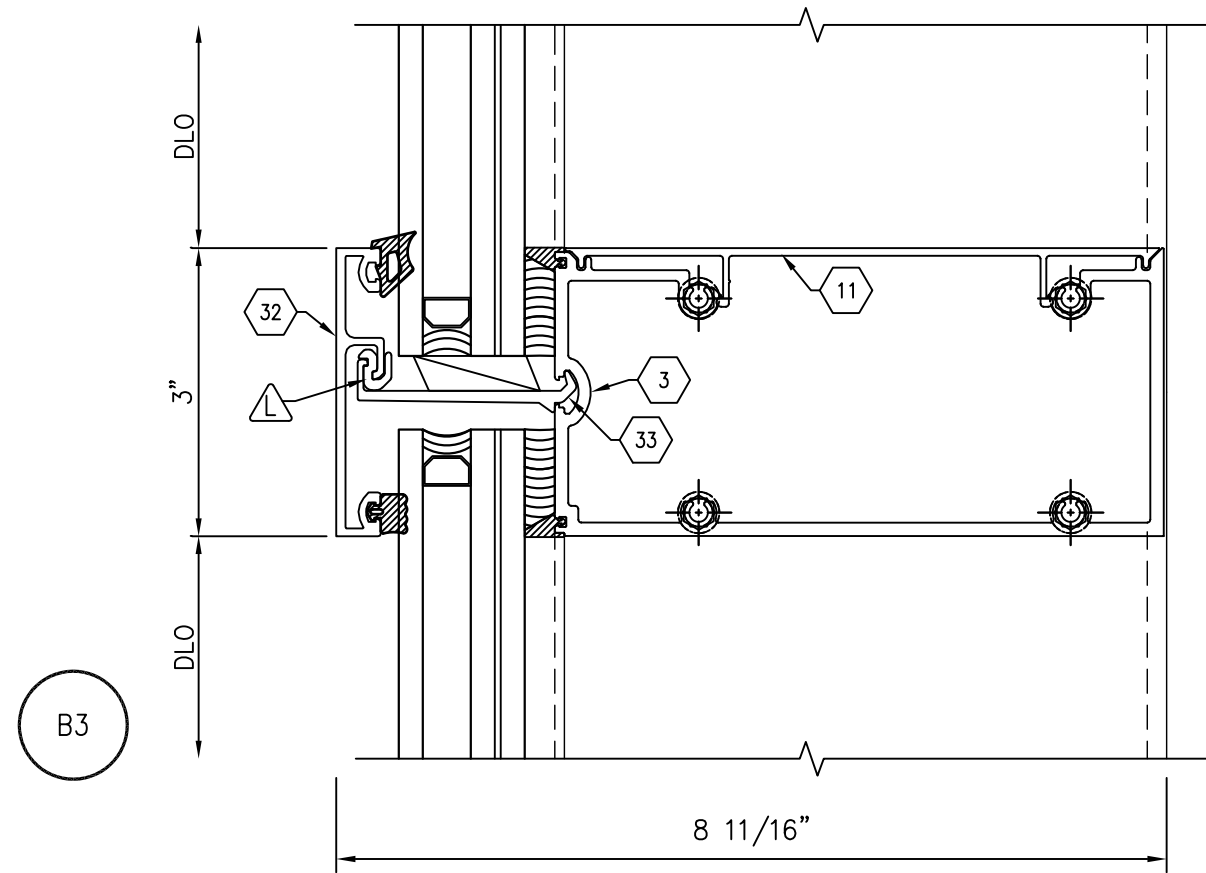
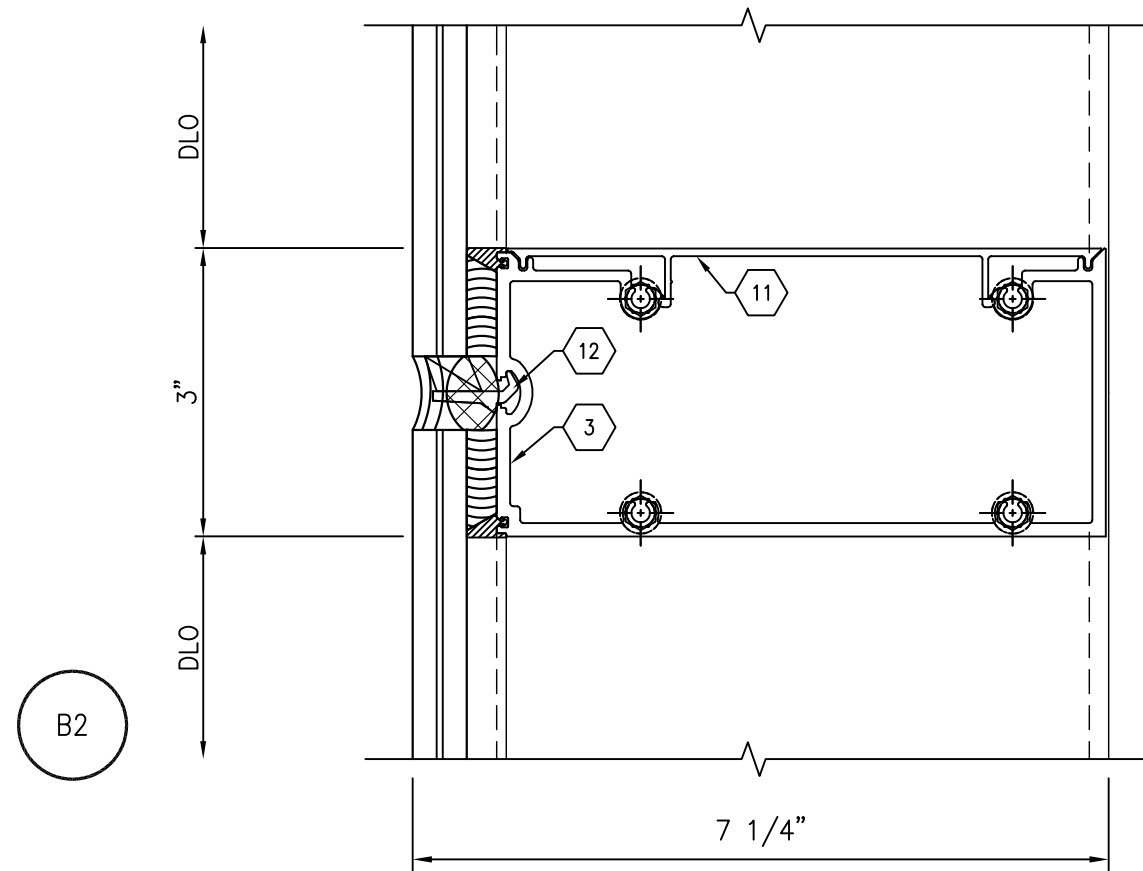
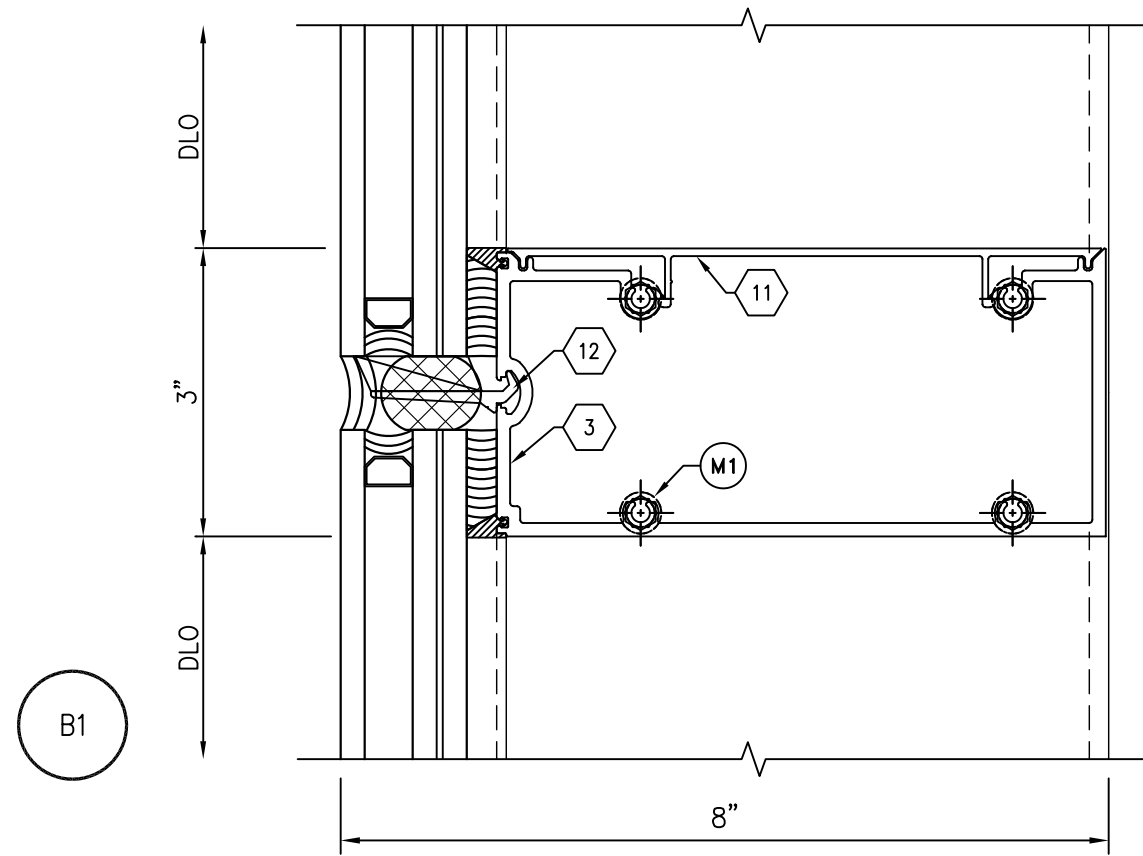
PHONE: (205)425-4072
FAX: (205)426-3937



DWG: RT3-IR

SHEET: 12/54

HORIZONTAL MULLION DETAILS:



A circular professional engineer seal for Scott Walters, State of Florida, License No. 62354. The seal includes the text "SCOTT WALTERS", "LICENSE", "No 62354", "STATE OF FLORIDA", "PROFESSIONAL ENGINEER", and "SEP 20 2015". A signature is written across the center of the seal.

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
(561) 225-1982

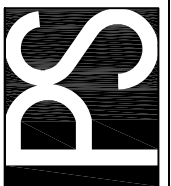
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

2020 CODE UPDATE	5	10/19/21		
PRINTS ISSUED FOR	REV.#	DATE		DESCRIPTION
—	—	—		
—	—	—		
—	—	—		
—	—	—		

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937

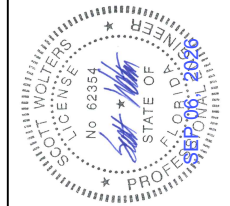
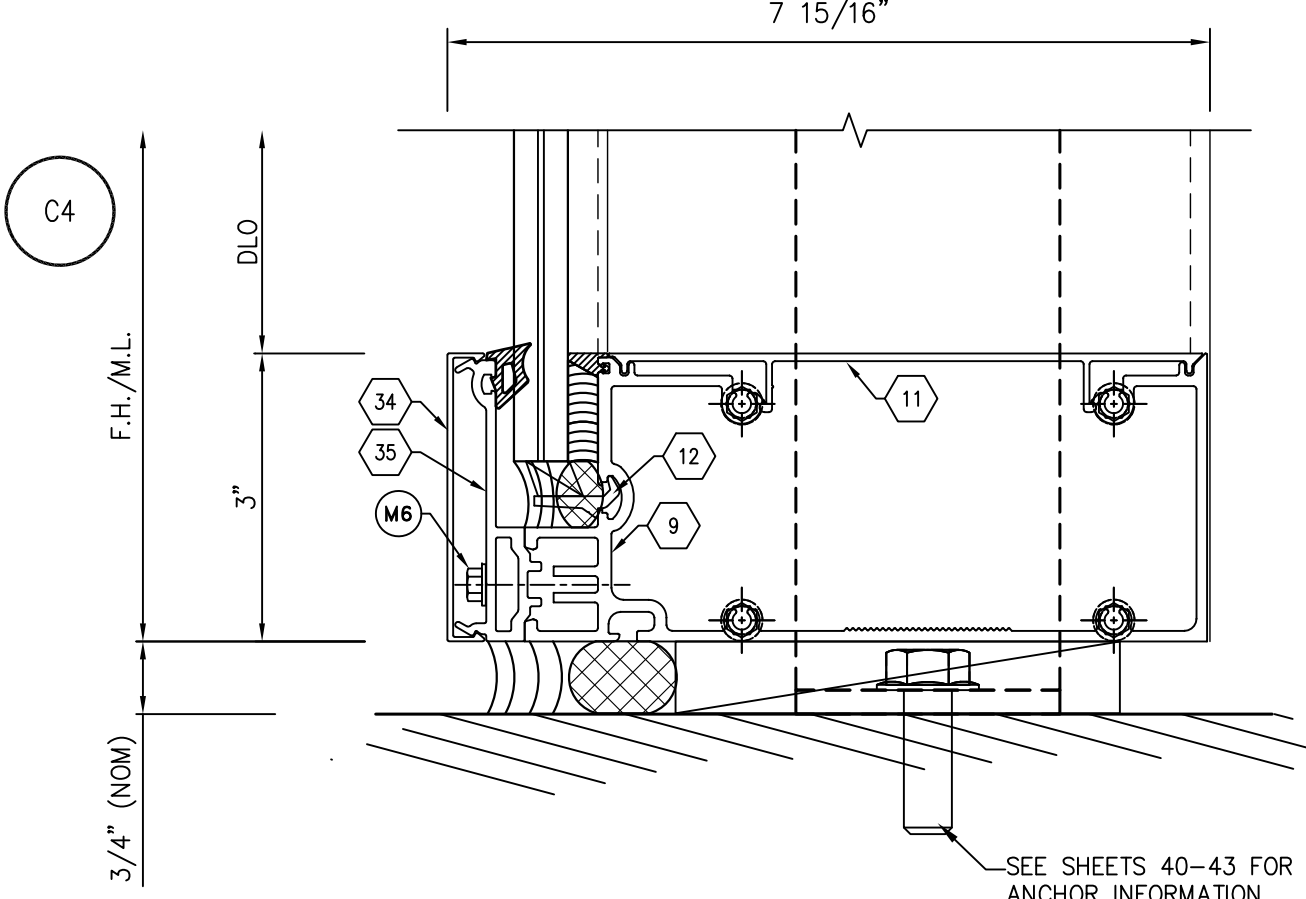
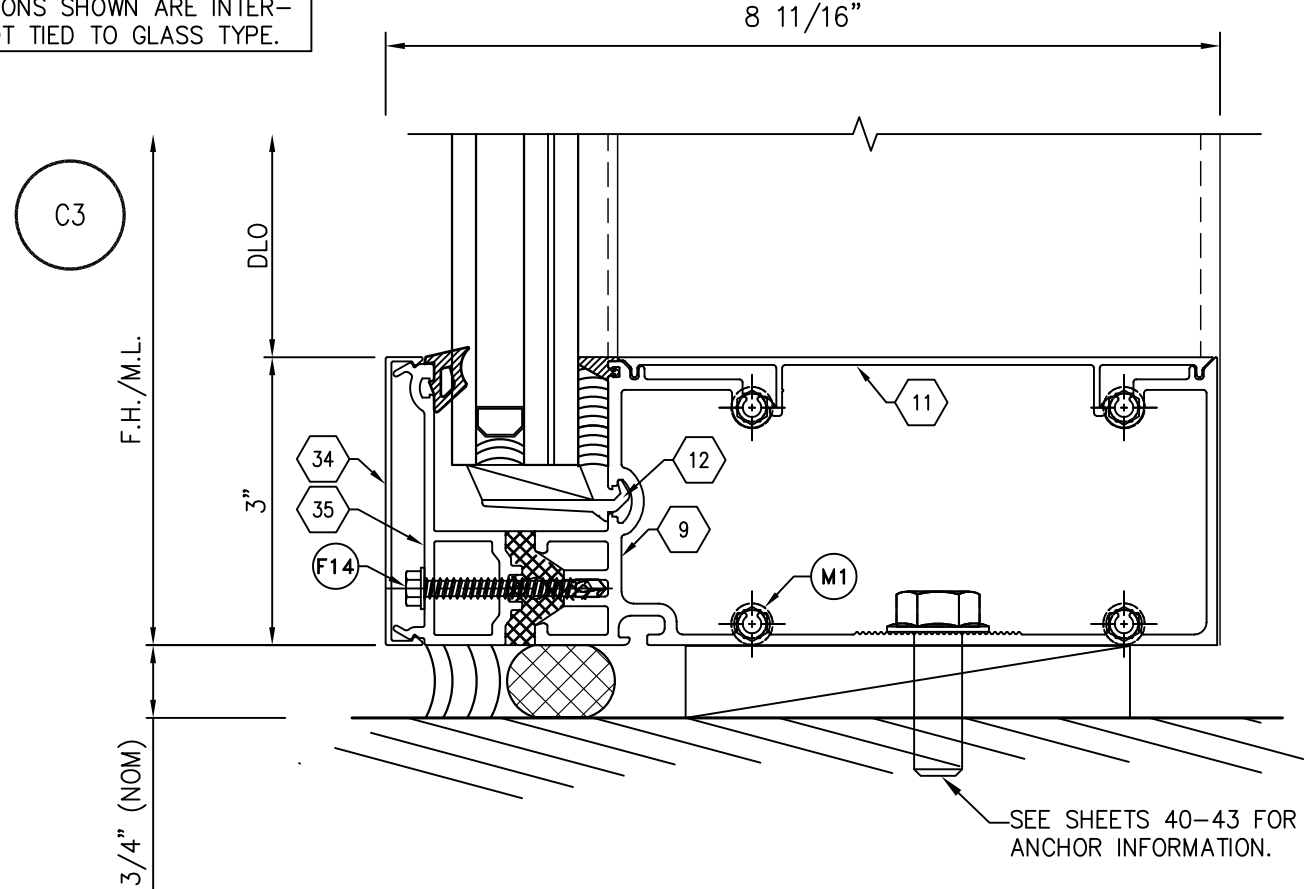
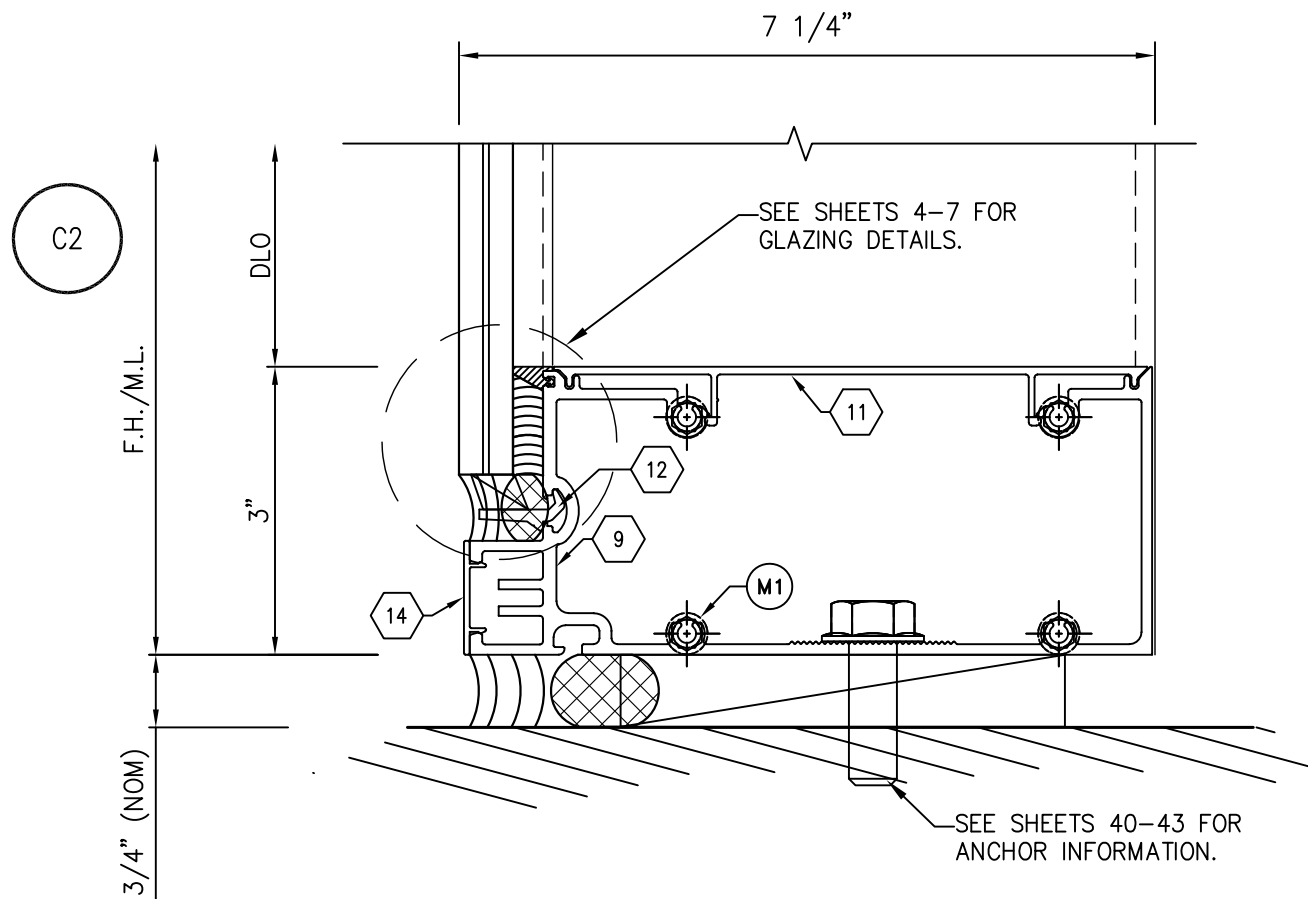
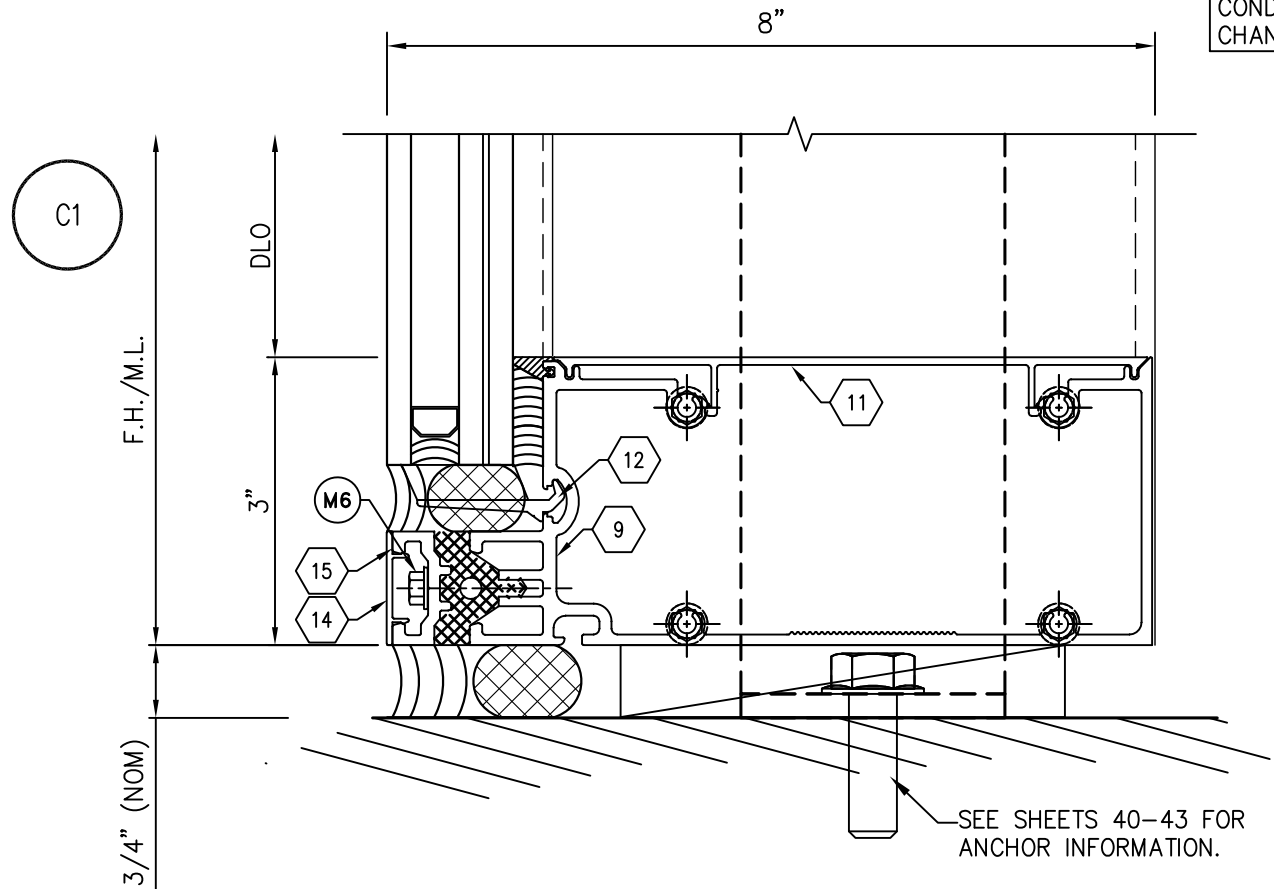


DWG:	RT3-IR
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SHEET:	13/54
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SILL DETAILS:

SEE SHEETS 40-43 FOR HEAD/SILL ANCHOR CONDITIONS. CONDITIONS SHOWN ARE INTER-CHANGEABLE AND NOT TIED TO GLASS TYPE.



SEAL:
SCOTT WALTERS
FL PE# 62354
WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

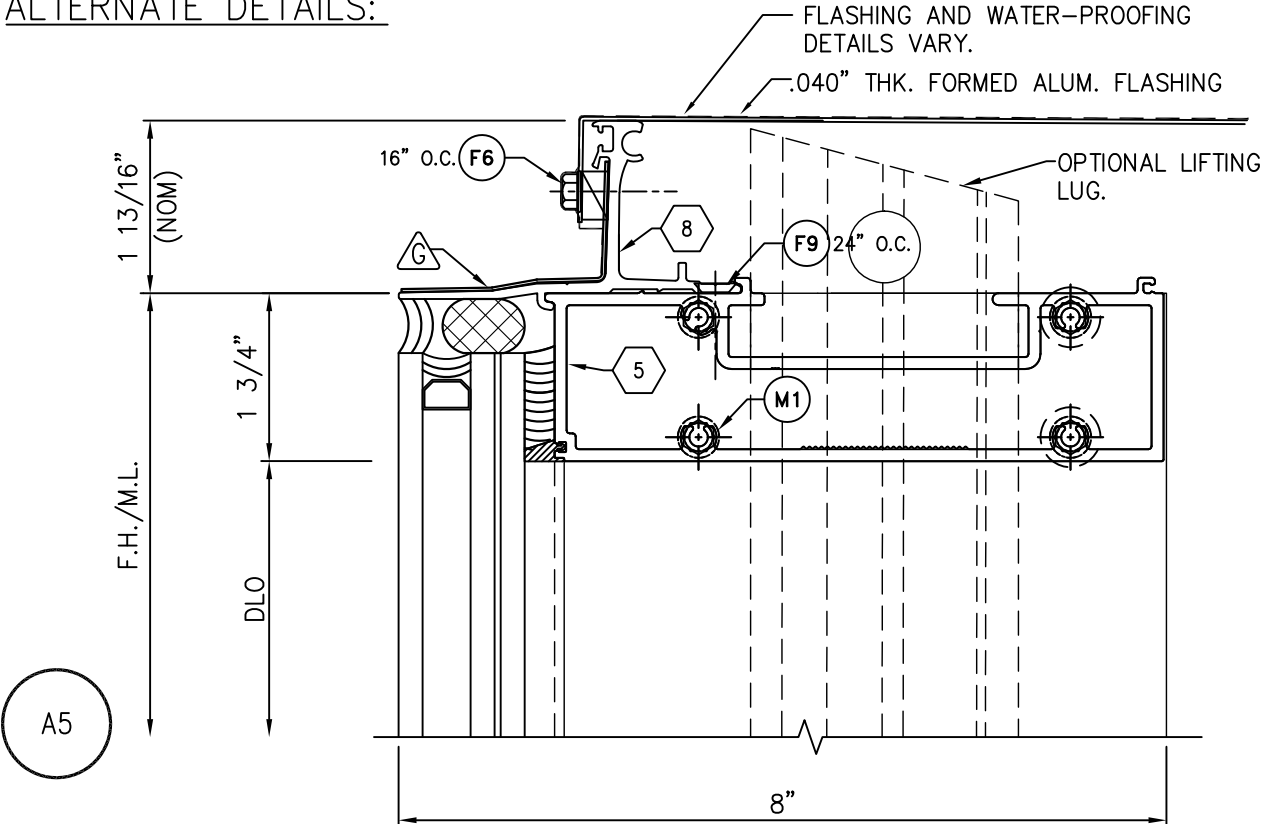
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
2020 CODE UPDATE	5	10/19/21	
PRINTS ISSUED FOR	REV.#	DATE	DESCRIPTION

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

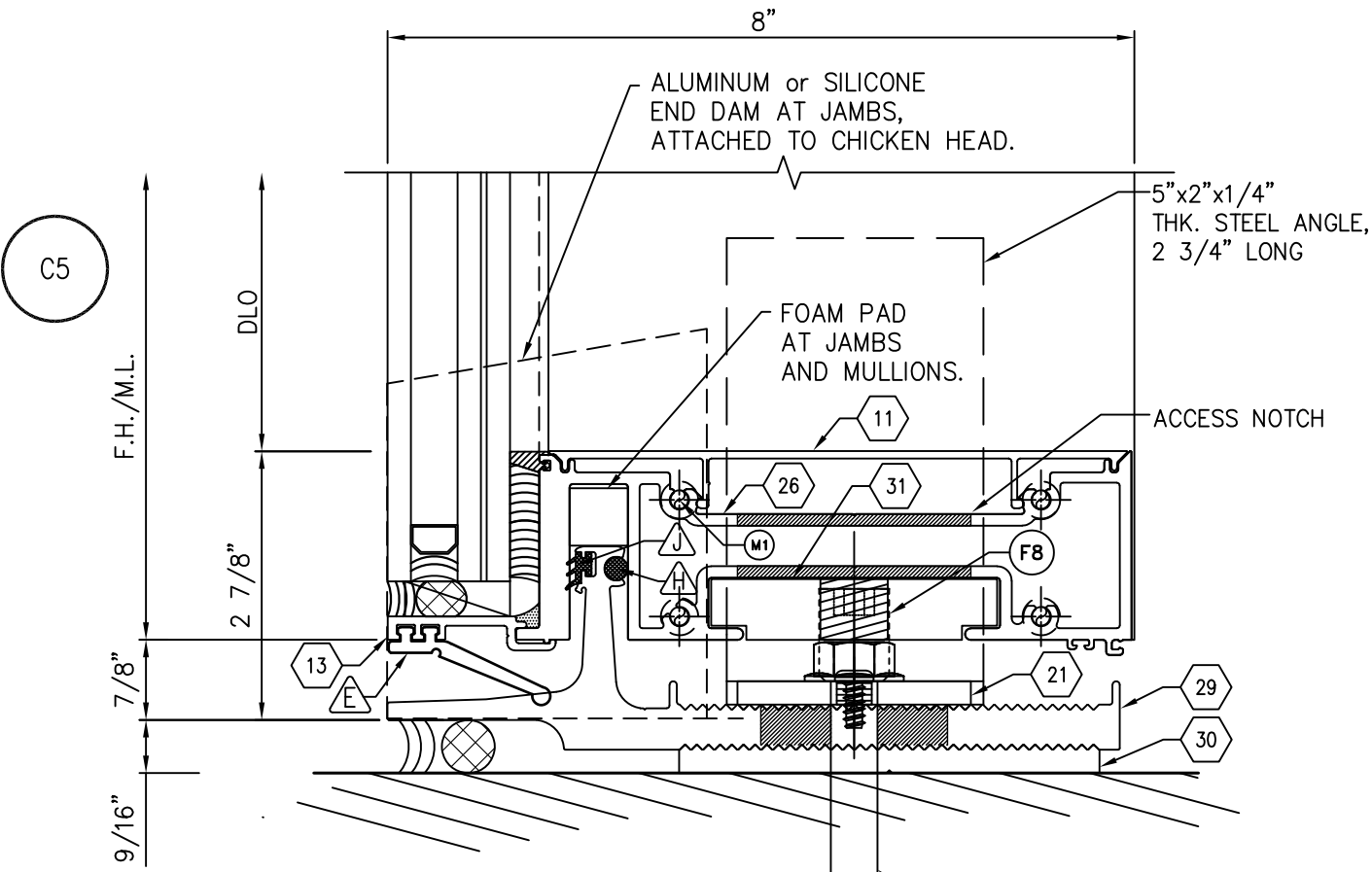
PS

DWG: RT3-IR
SHEET: 14/54

ALTERNATE DETAILS:

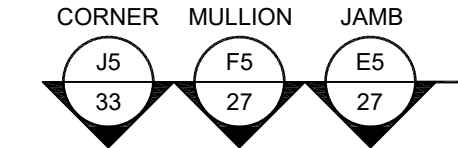


HEAD DETAIL AT PARAPET. INSULATED GLASS SHOWN, MONOLITHIC IS SIMILAR.



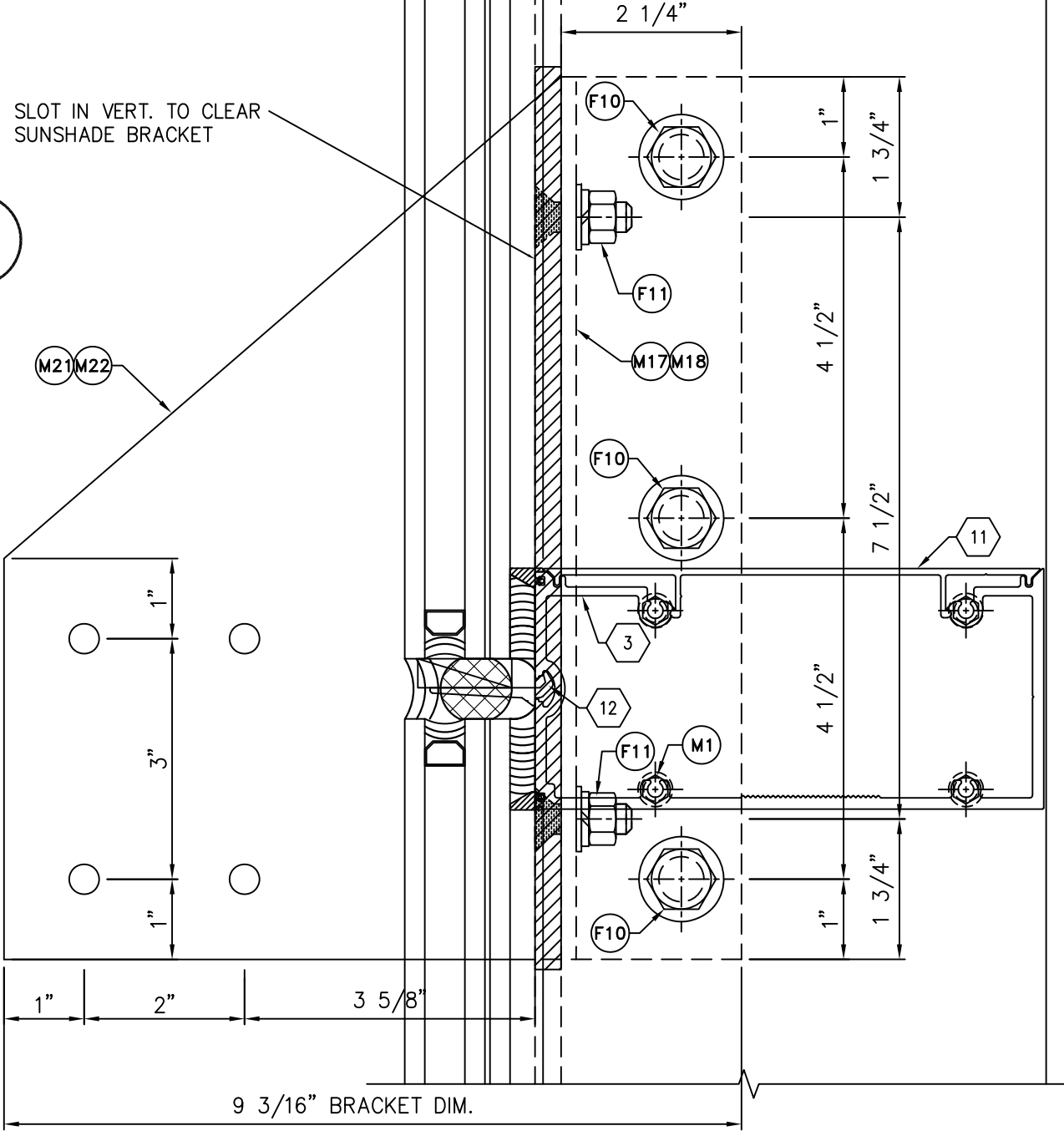
SILL DETAIL WITH STARTER SILL. INSULATED GLASS SHOWN, MONOLITHIC IS SIMILAR.

SEE SHEETS 40-43 FOR ANCHOR INFORMATION.



SLOT IN VERT. TO CLEAR SUNSHADE BRACKET

B5



HORIZONTAL DETAIL WITH SUNSHADE BRACKET. APPROVED WITH ALL GLASS TYPES.

SEAL:

SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

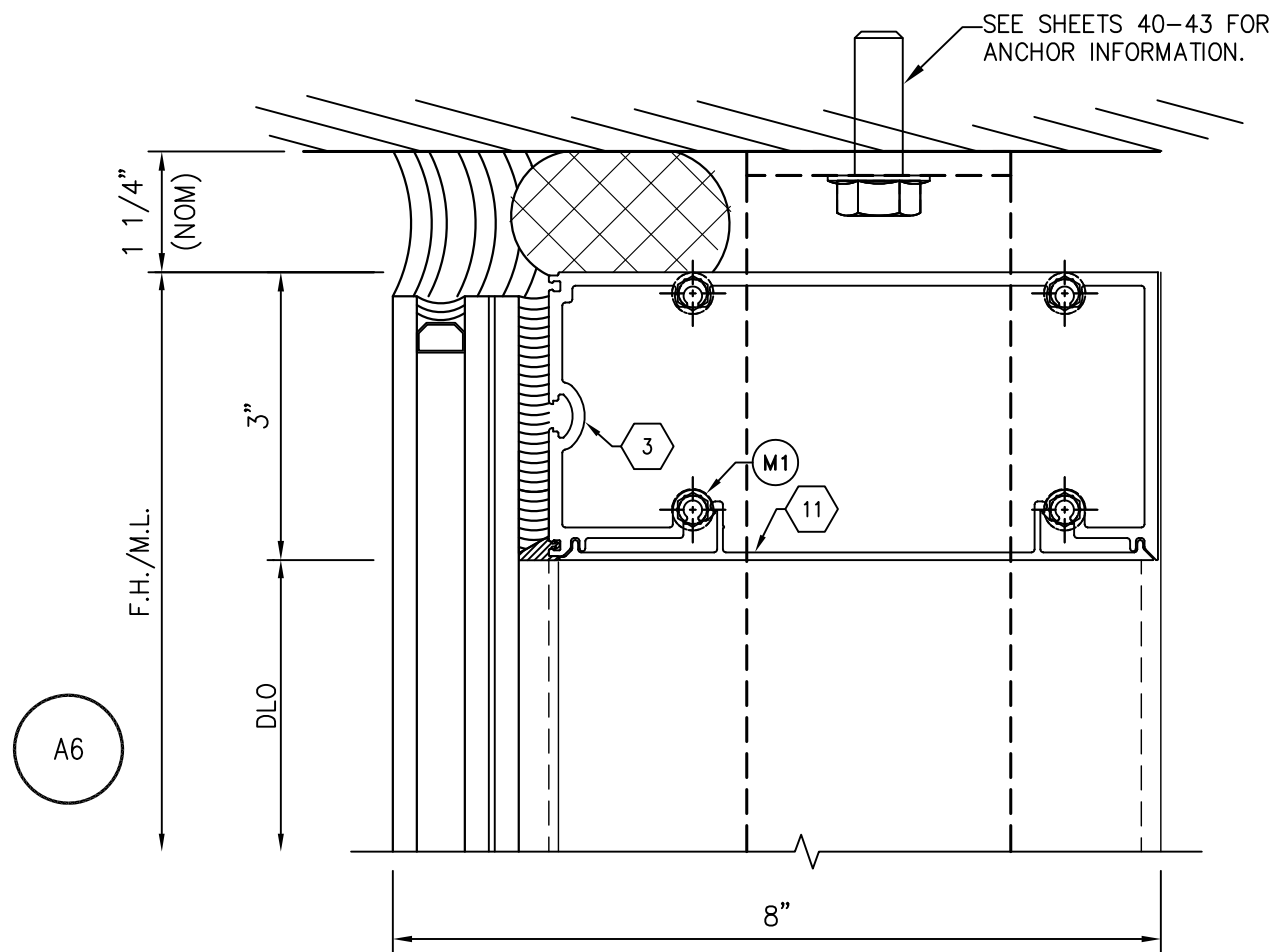
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
2020 CODE UPDATE	5	10/19/21	
PRINTS ISSUED FOR	REV.#	DATE	DESCRIPTION

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

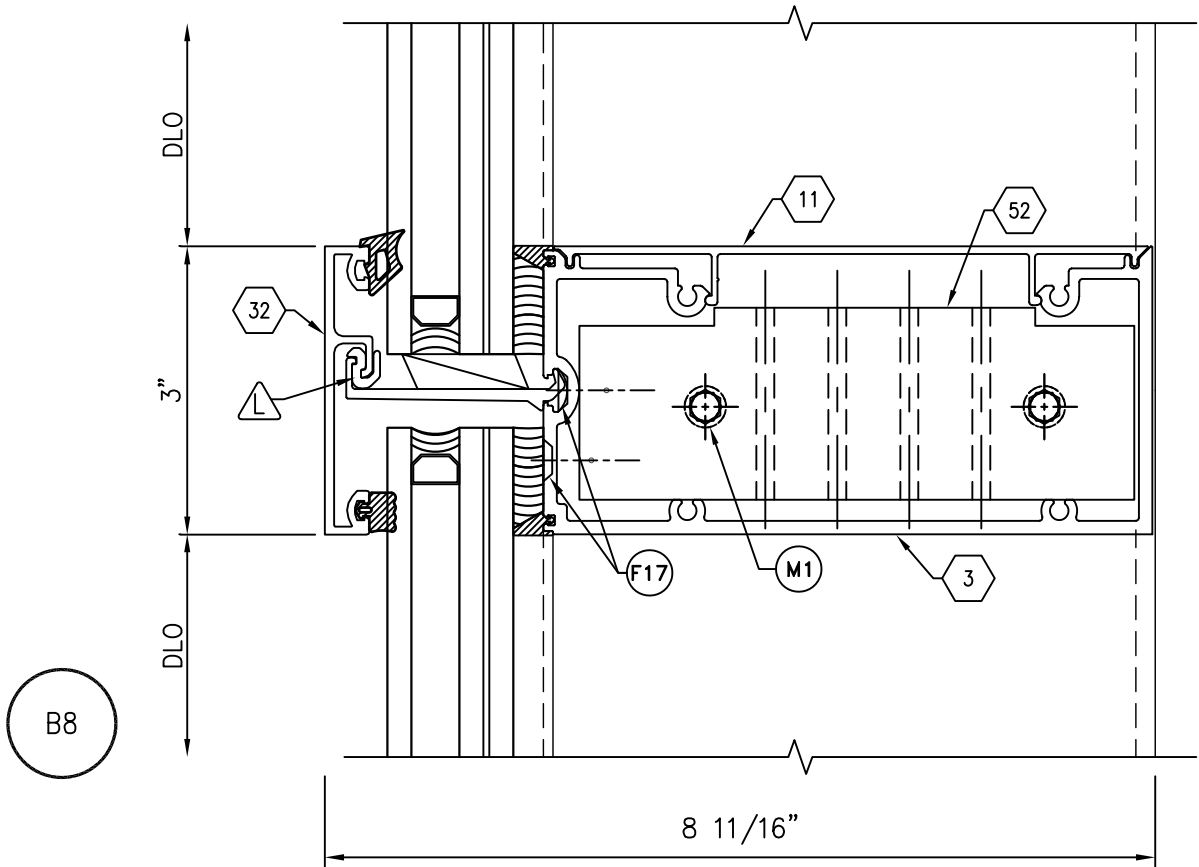
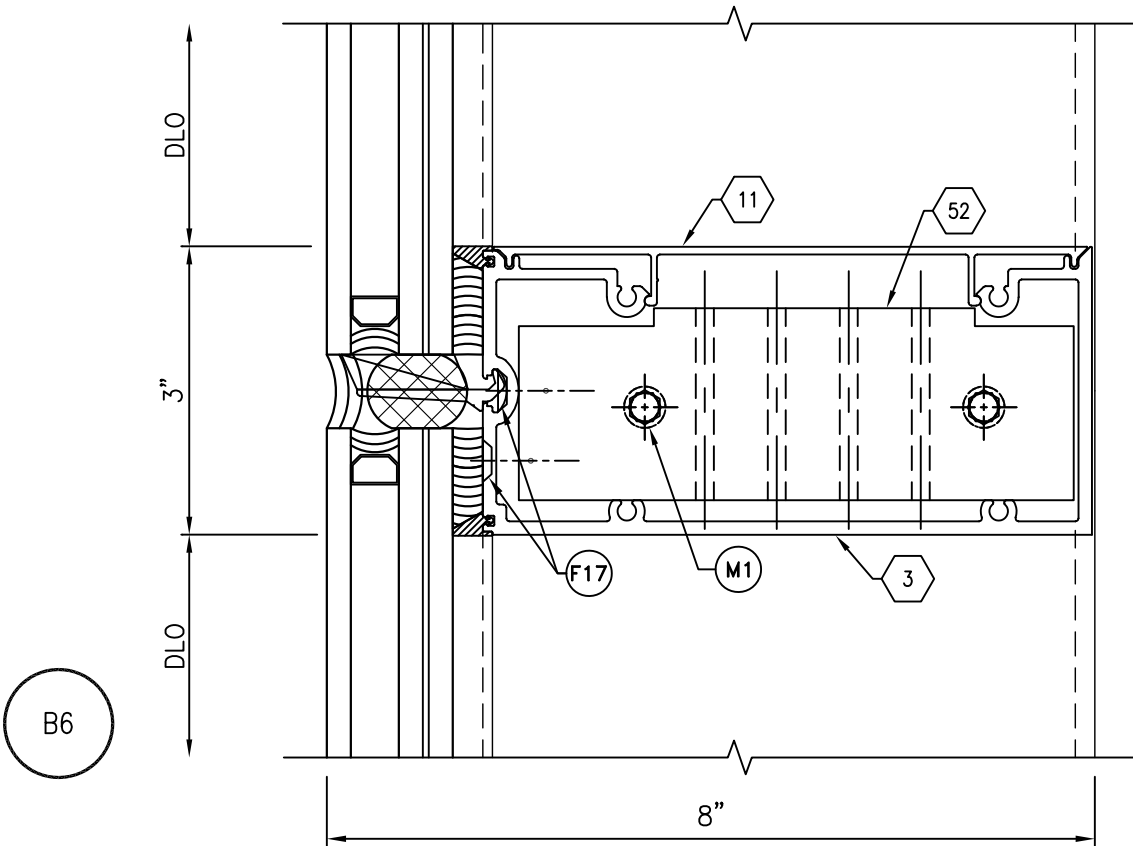
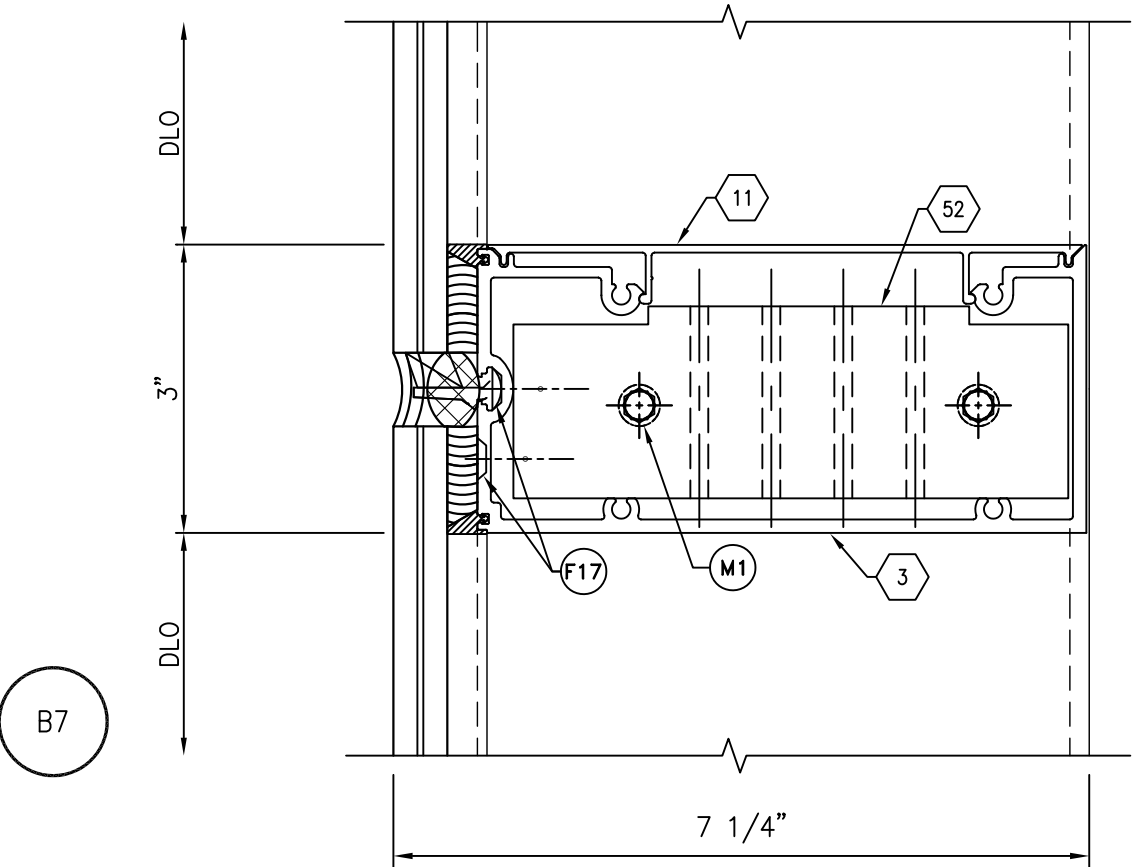
DWG: RT3-IR

SHEET: 15/54

ALTERNATE HORIZONTAL DETAILS:



HORIZONTALS WITH OPTIONAL SHEAR BLOCK CONNECTIONS ARE LIMITED TO 57" LONG AND +/- 90 psf (max).



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

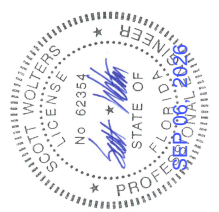
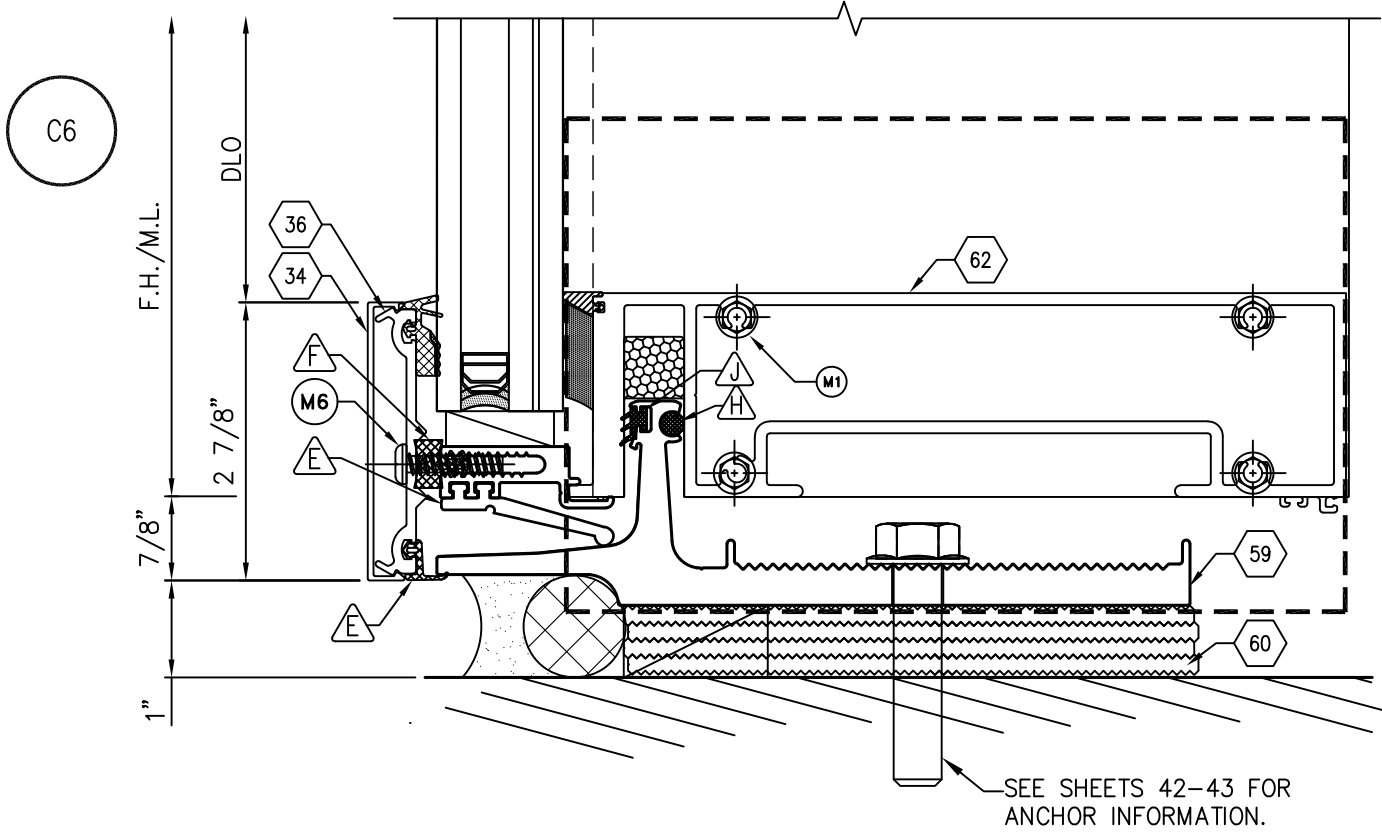
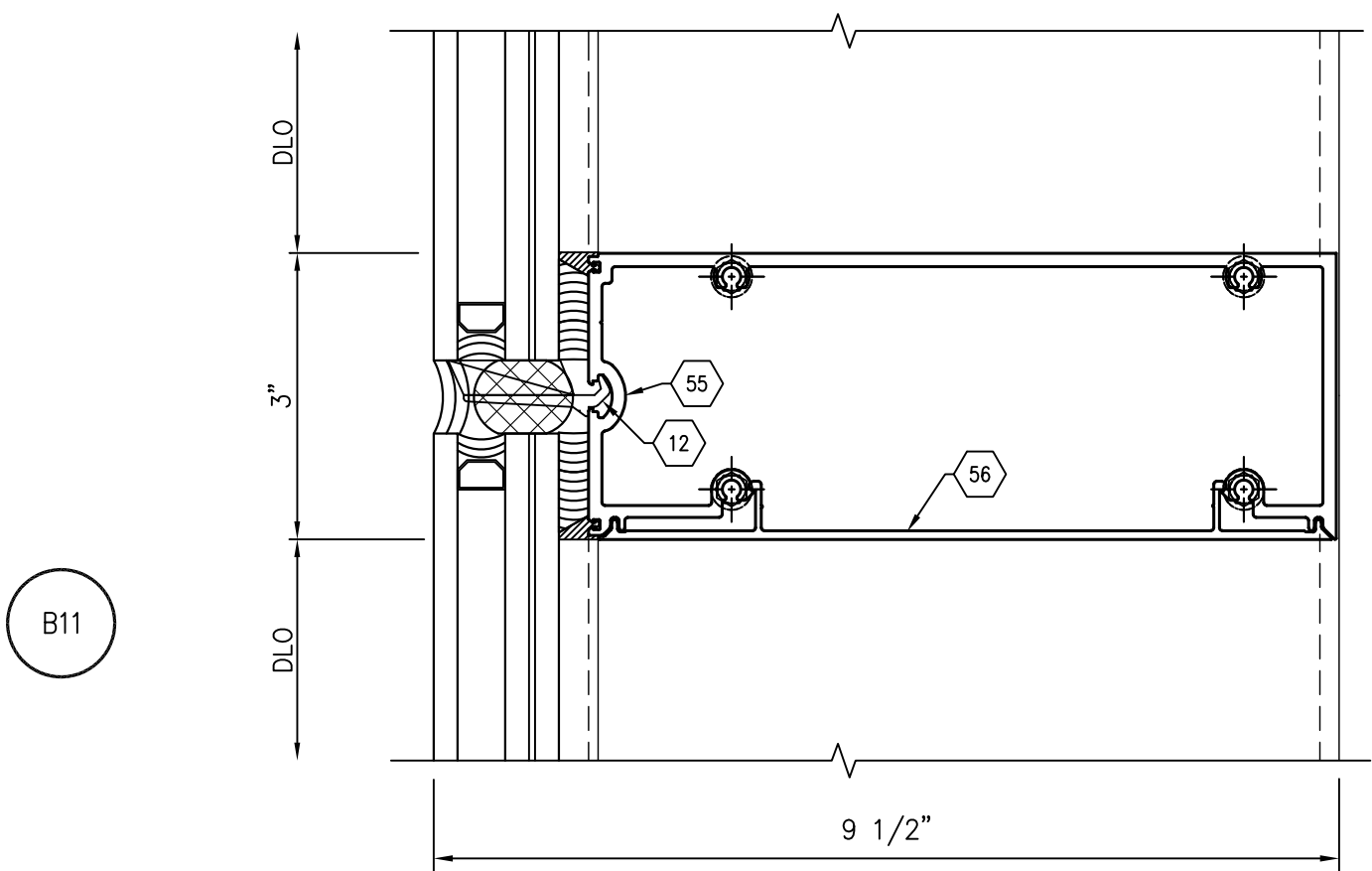
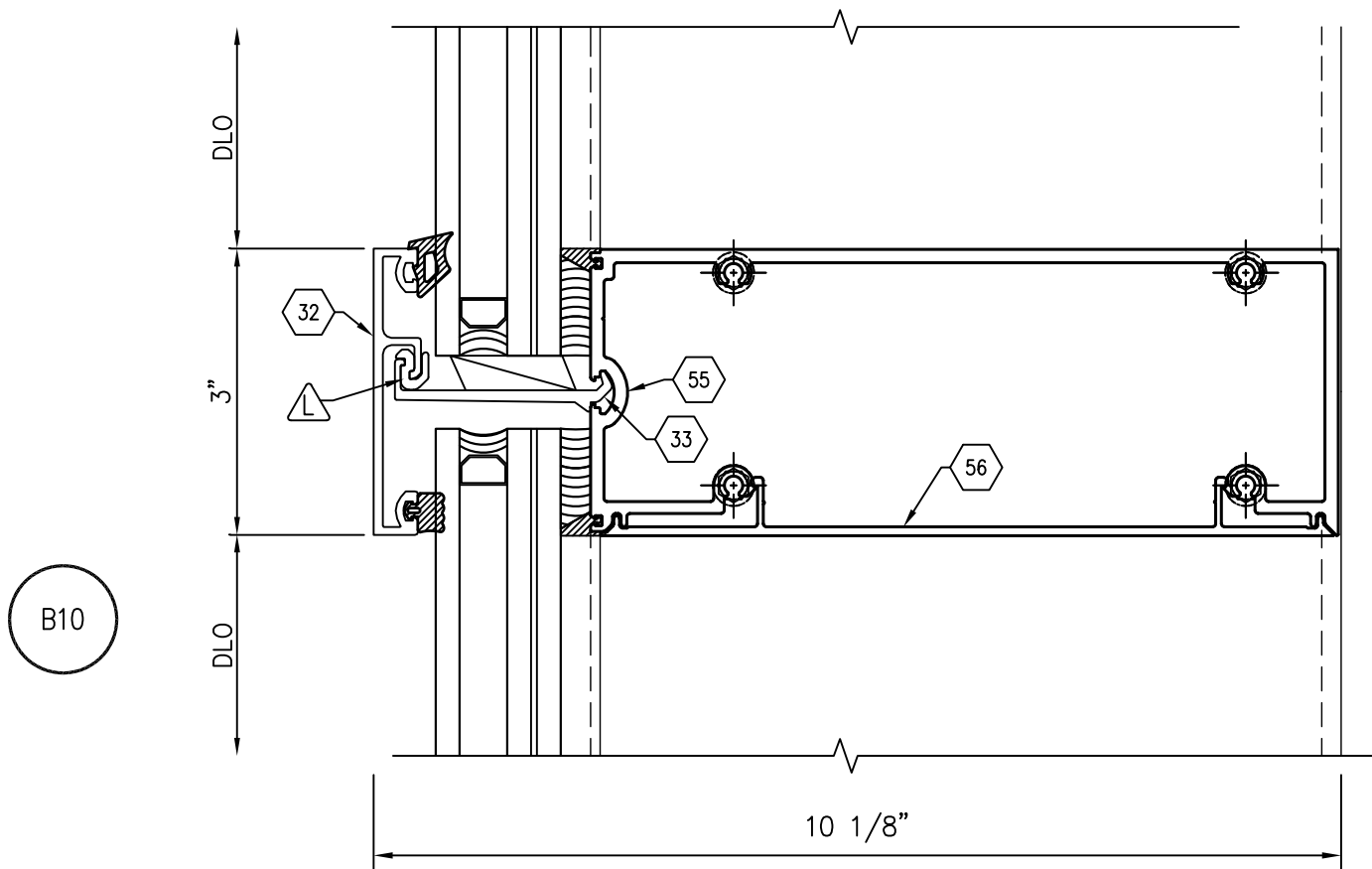
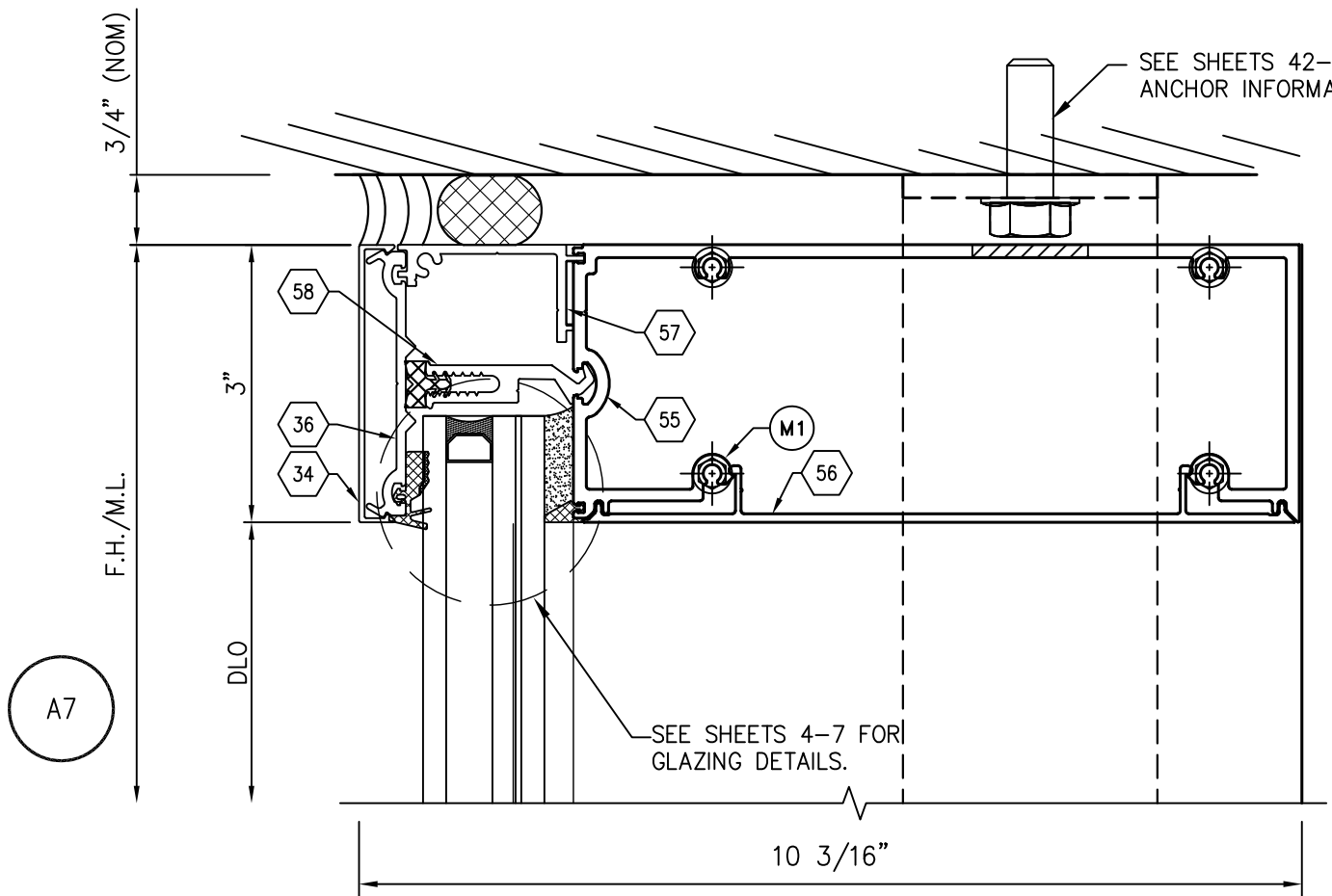
SEP 08 2020

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
REV.#	DATE	DESCRIPTION	
5	10/19/21	2020 CODE UPDATE	
		PRINTS ISSUED FOR	

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT3-IR
SHEET: 16/54

ALTERNATE XL HORIZONTAL DETAILS:



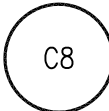
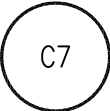
SEAL:
SCOTT WALTERS
FL PE# 62354
WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
REVISION	10	9/3/24	
2020 CODE UPDATE	5	10/19/21	
PRINTS ISSUED FOR	REV.#	DATE	DESCRIPTION

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT3-IR
SHEET: 17/54

A8

[illegible]

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937

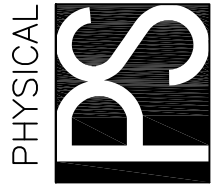
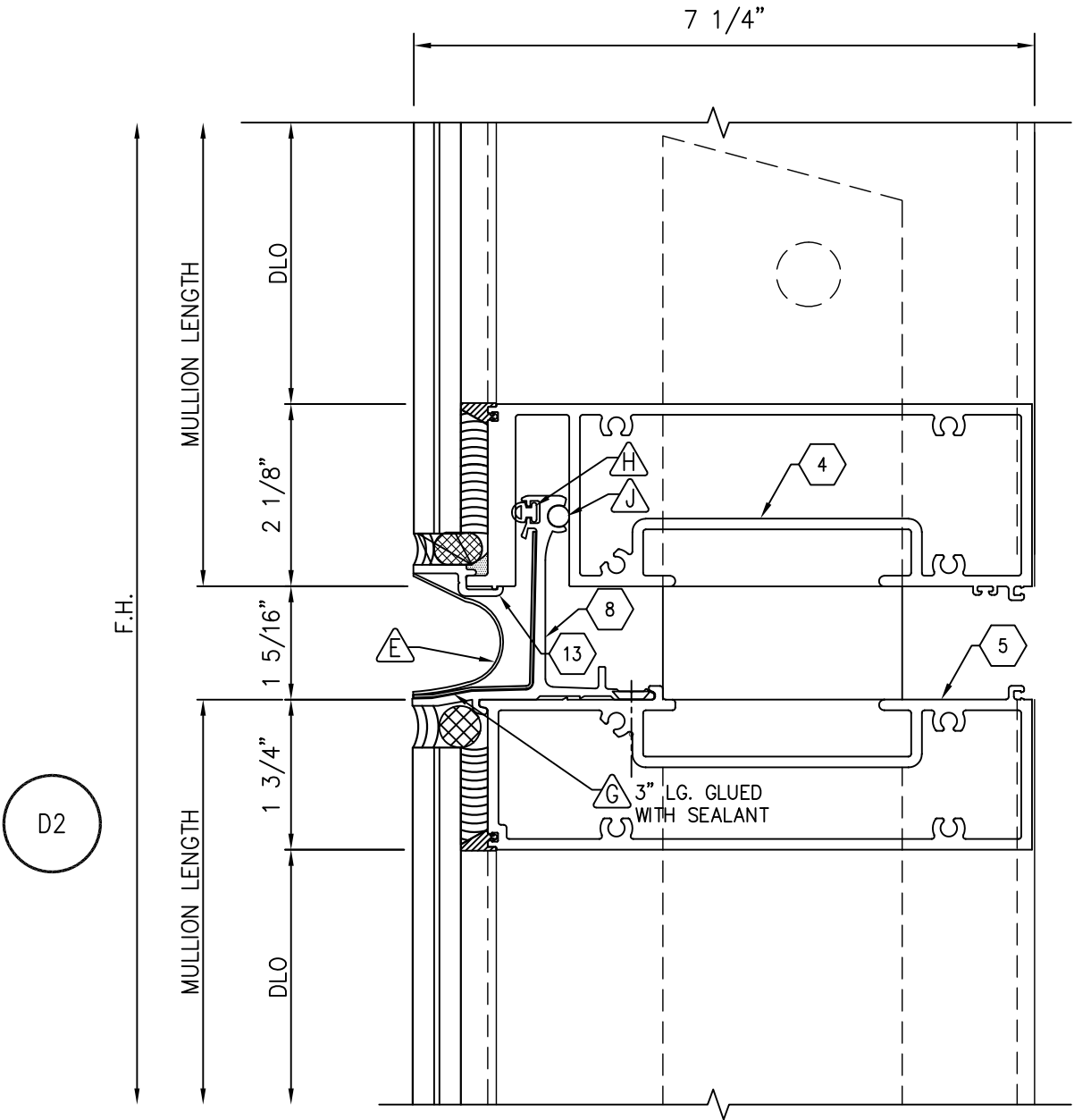
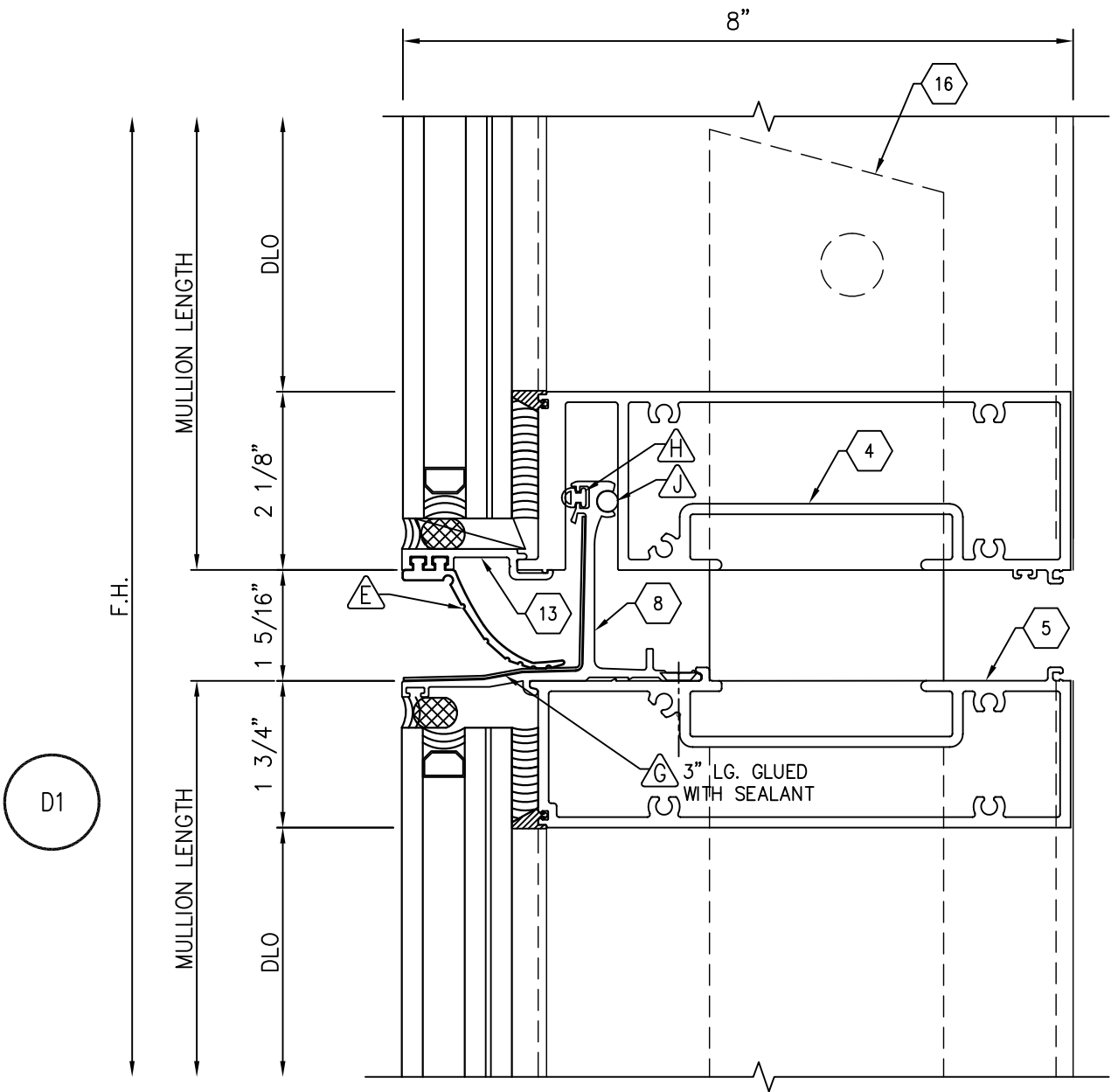
DWG:	RT3-IR
SHEET:	18/54

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982



HORIZONTAL STACK DETAILS:



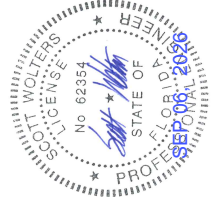
PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT3-IR
SHEET: 19/54

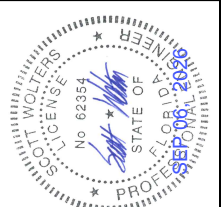
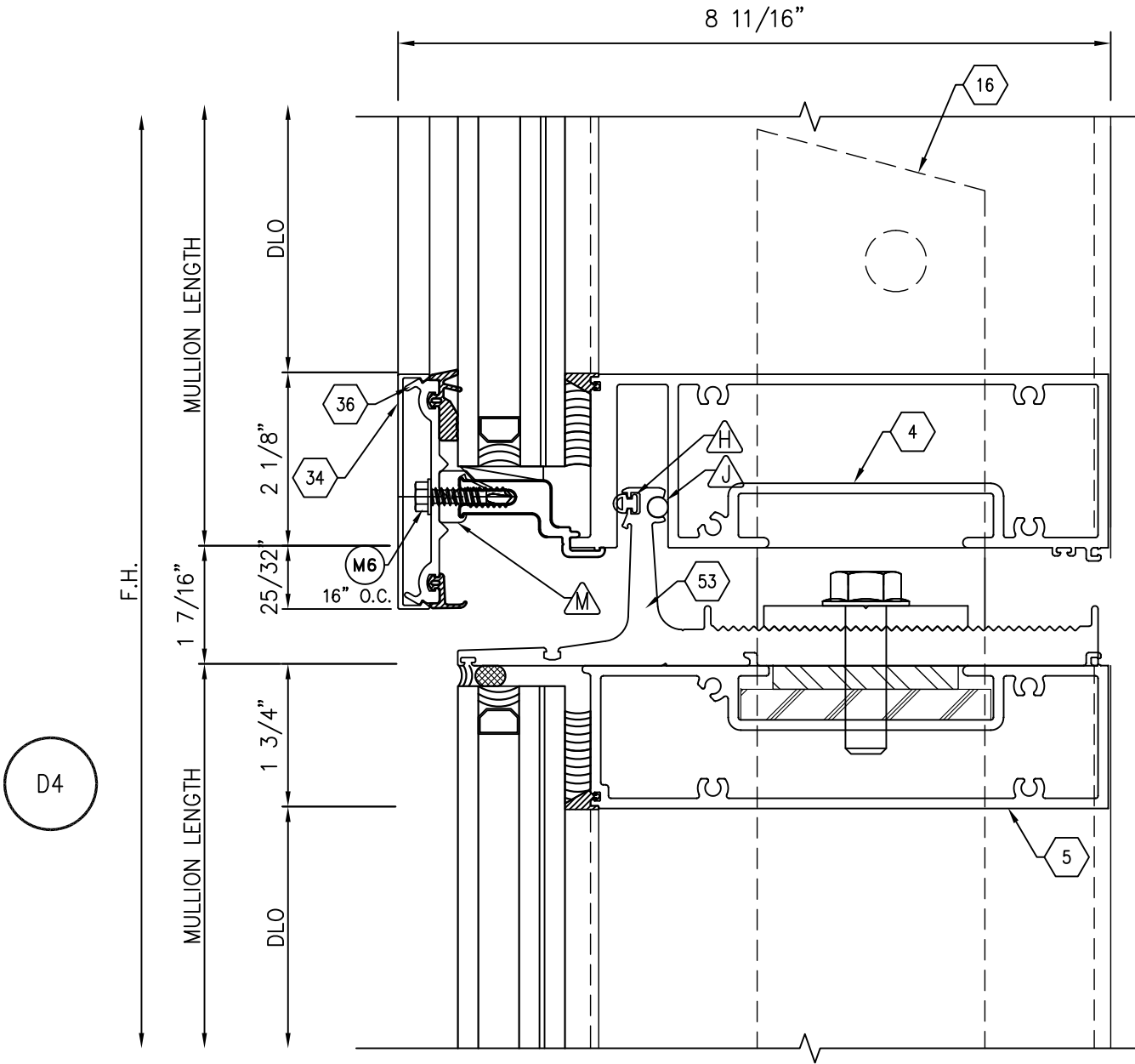
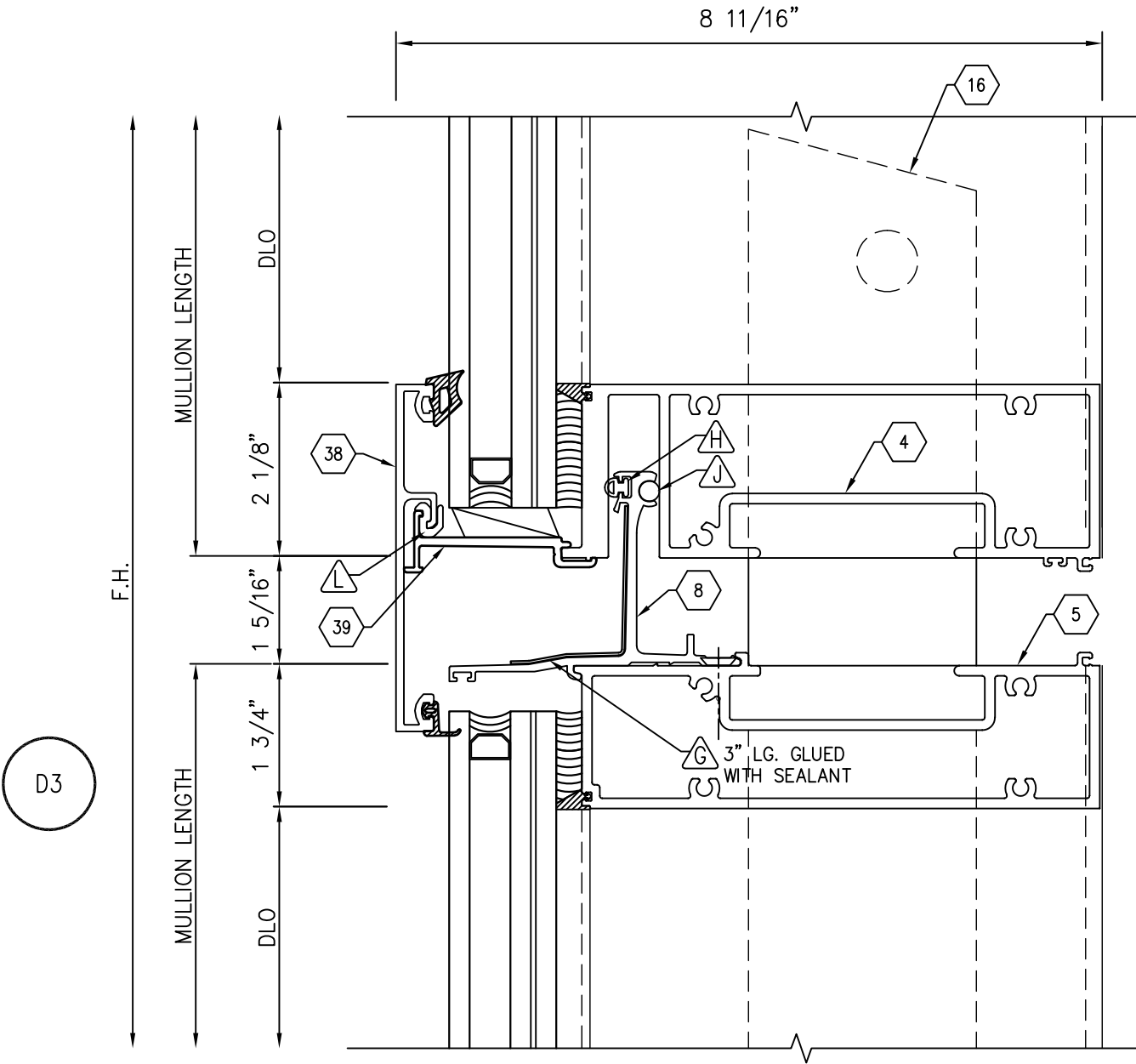
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
-	-	-	-
-	-	-	-
2020 CODE UPDATE	5	10/19/21	DATE
PRINTS ISSUED FOR	REV.#	DATE	DESCRIPTION

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

SEAL:



HORIZONTAL STACK DETAILS:



SEAL:

SCOTT WALTERS
FL PE# 62354

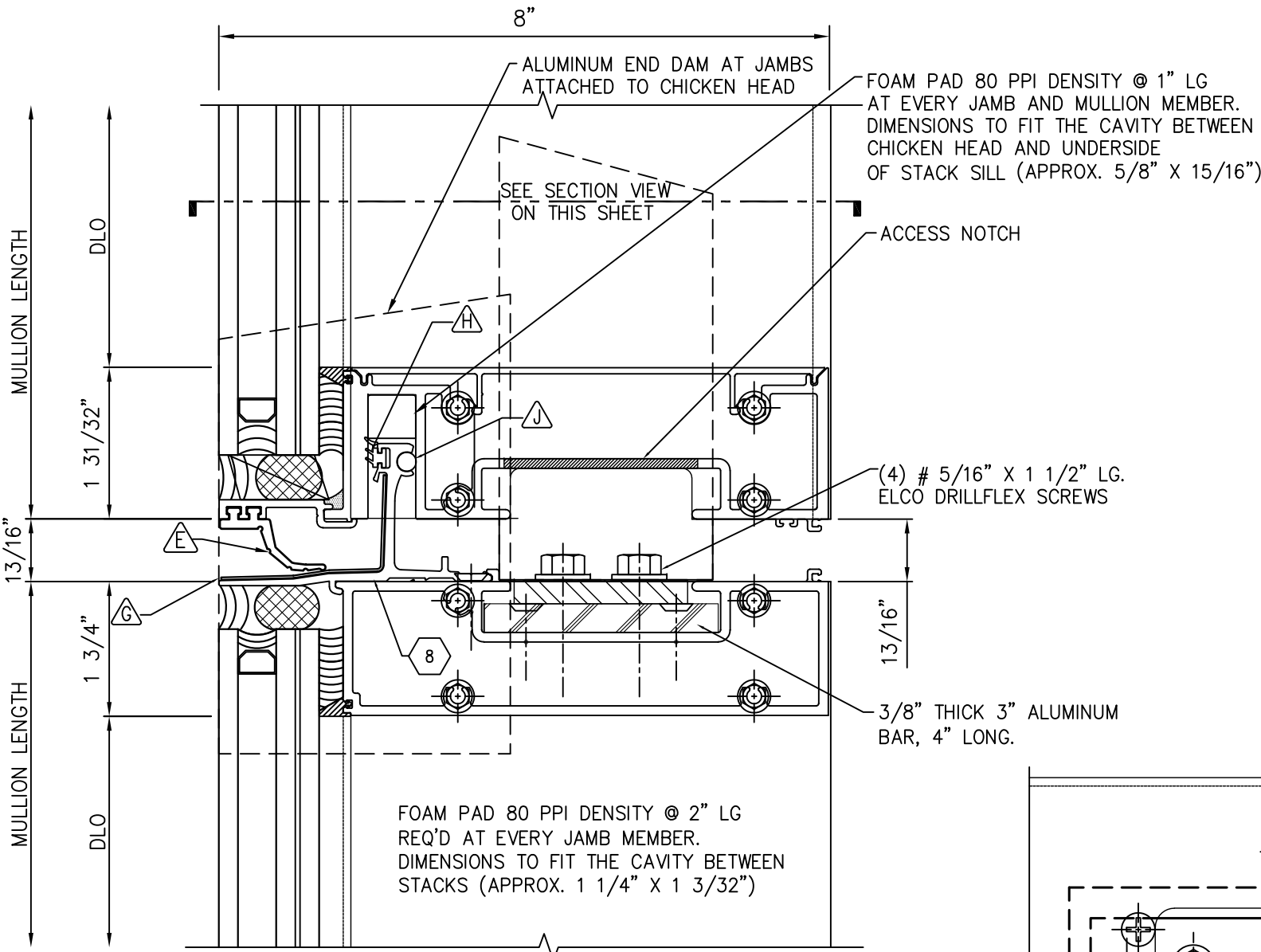
WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

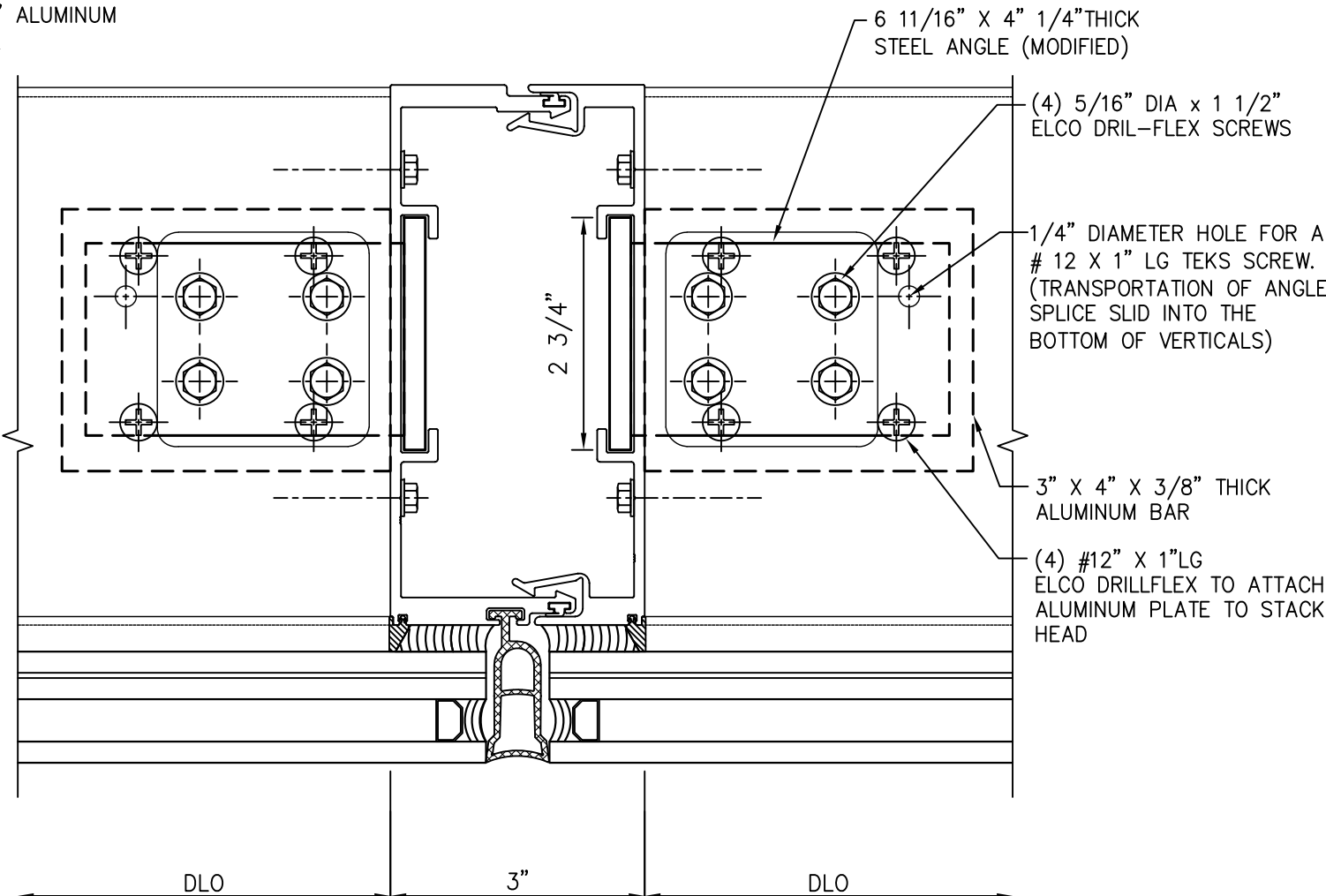
REV.#	DATE	DESCRIPTION
1		
2		
3		
4		
5	10/19/21	2020 CODE UPDATE
		PRINTS ISSUED FOR

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

ALTERNATE HORIZONTAL STACK DETAIL:



THIS IS AN ALTERNATE STACK DETAIL FOR APPLICATIONS WHERE THE HEAD CONDITION PREVENTS THE TOP SECTION OF VERTICAL MULLIONS FROM CLEARING THE SPLICE SLEEVES EXTENDING FROM THE LOWER MULLION SECTIONS.



SSG MULLION WITH INSULATED GLASS IS SHOWN. MONOLITHIC GLASS AND CAPTURED MULLION CONDITIONS ARE ALSO APPROVED AND SIMILAR.

JAMB AND CORNER MULLIONS ARE SIMILAR.

SEAL: SCOTT WOLTERS
FL PE# 62354

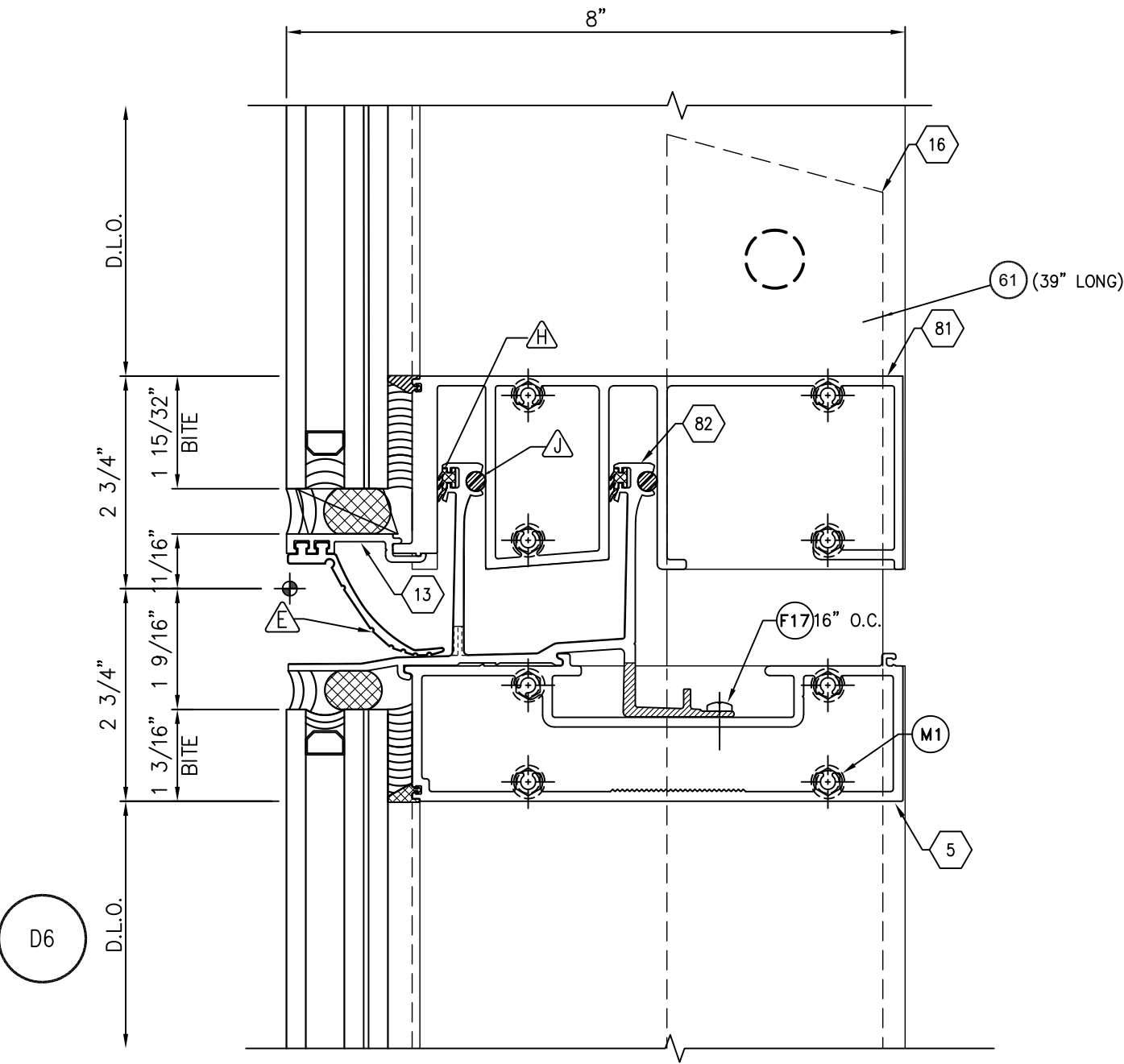
WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
REV.#	DATE	DESCRIPTION	
5	10/19/21	2020 CODE UPDATE	
		PRINTS ISSUED FOR	

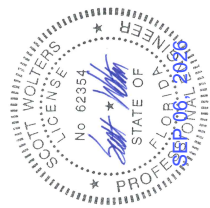
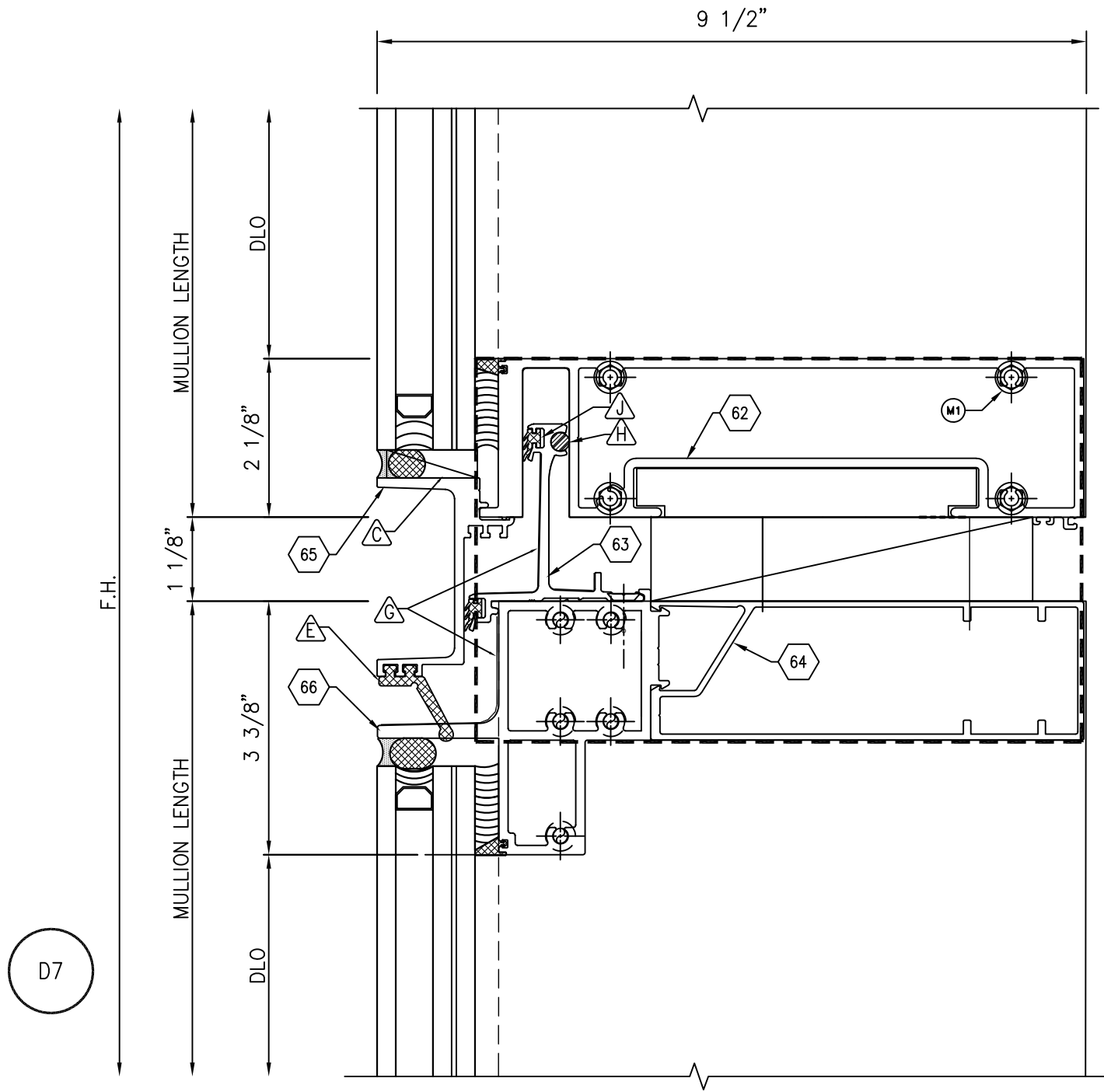
PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

DWG: RT3-IR
SHEET: 21/54

ALTERNATE HORIZONTAL STACK DETAIL:



HORIZONTAL XL STACK DETAIL:



SEAL:
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
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WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

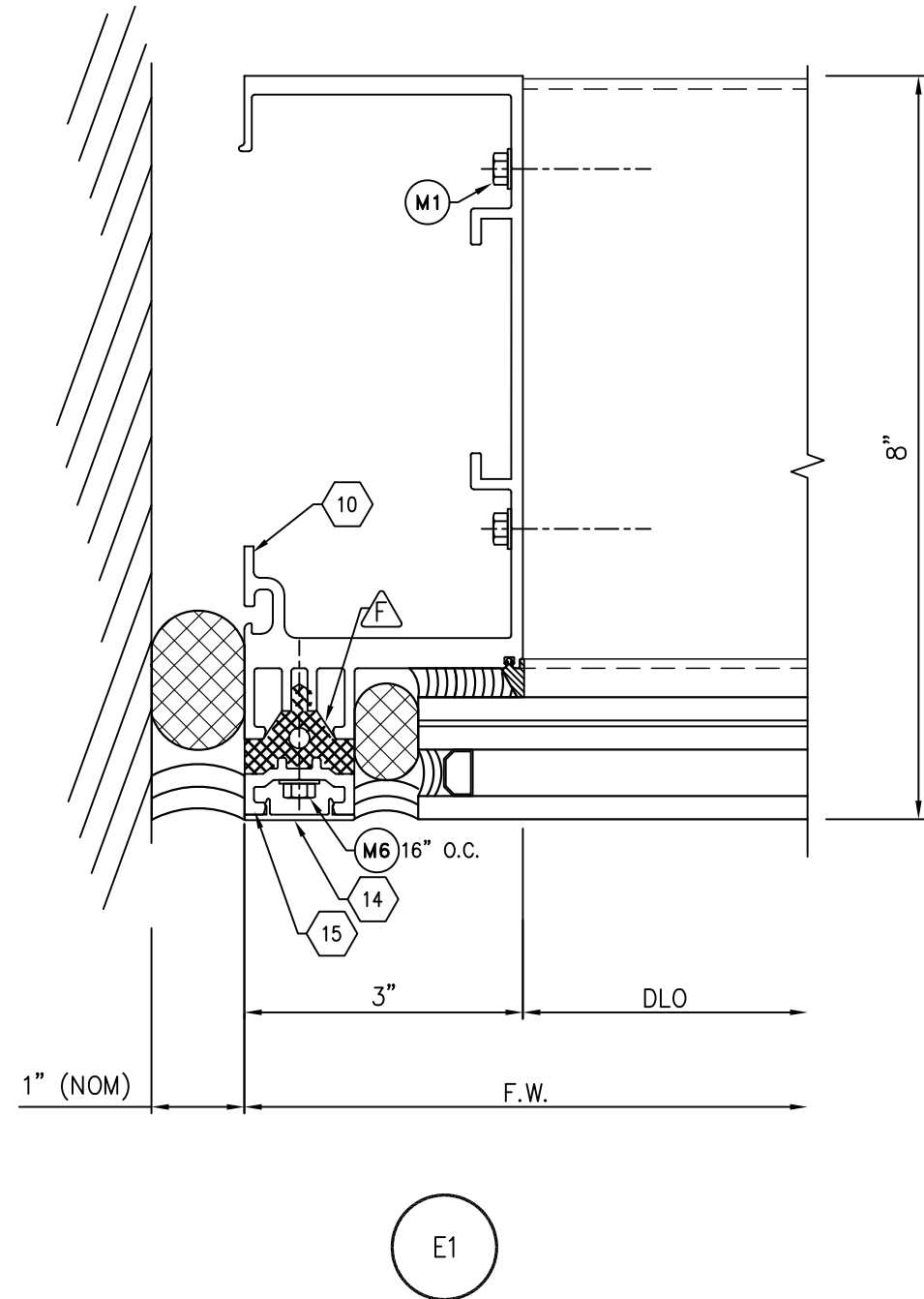
REVISION	DATE	DESCRIPTION
14	10/31/25	ADDED D6
10	9/3/24	REVISION
5	10/19/21	2020 CODE UPDATE
PRINTS ISSUED FOR	REV.#	DATE

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

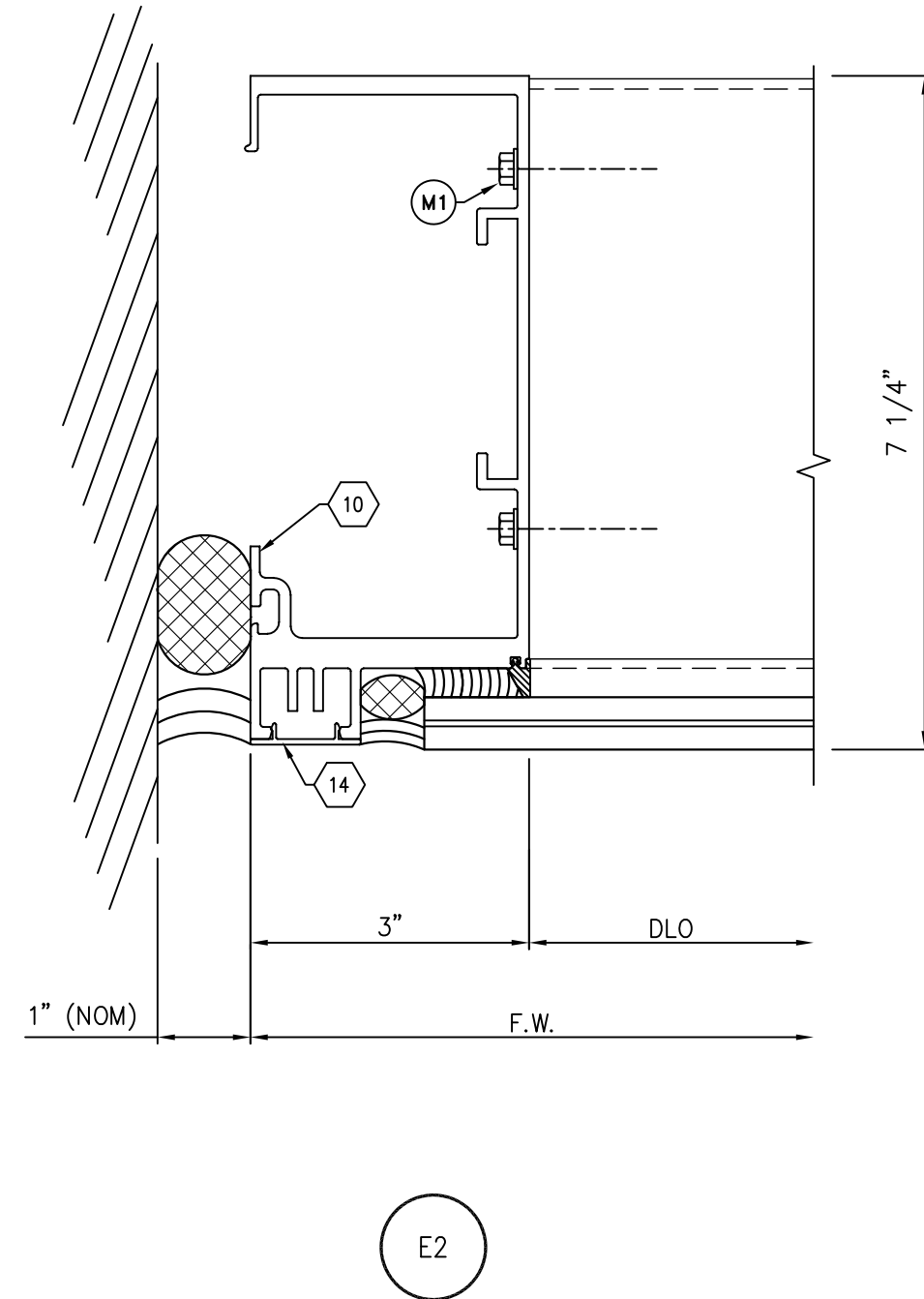


JAMB DETAILS:

SEE SHEETS 9-10 FOR STEEL
REINFORCING REQUIREMENTS.



THE 1" CAULK JOINT WIDTH SHOWN IS A NOMINAL DIMENSION.
THE SYSTEM HAS BEEN TESTED FOR WIDTHS UP TO 4", BUT
ANY SIZE MAY BE USED PROVIDED THE INSTALLATION MEETS
THE SEALANT MFTR'S REQUIREMENTS AND ASTM C1472.



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
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(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PRINTS	ISSUED FOR	REV.#	DATE	DESCRIPTION
—	2020 CODE UPDATE	5	10/19/21	
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PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



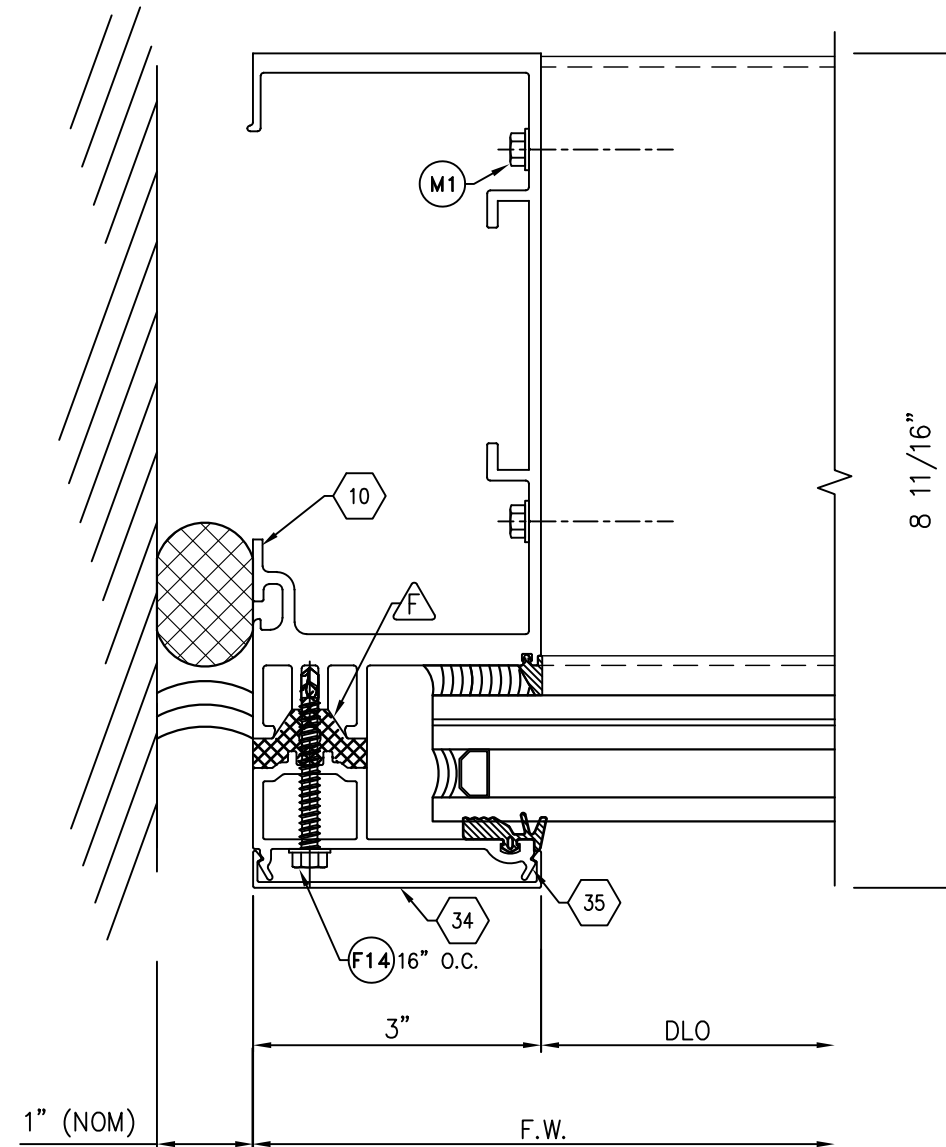
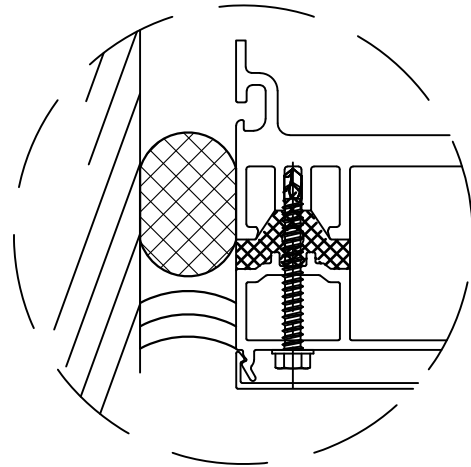
DWG: RT3-IR

SHEET: 23/54

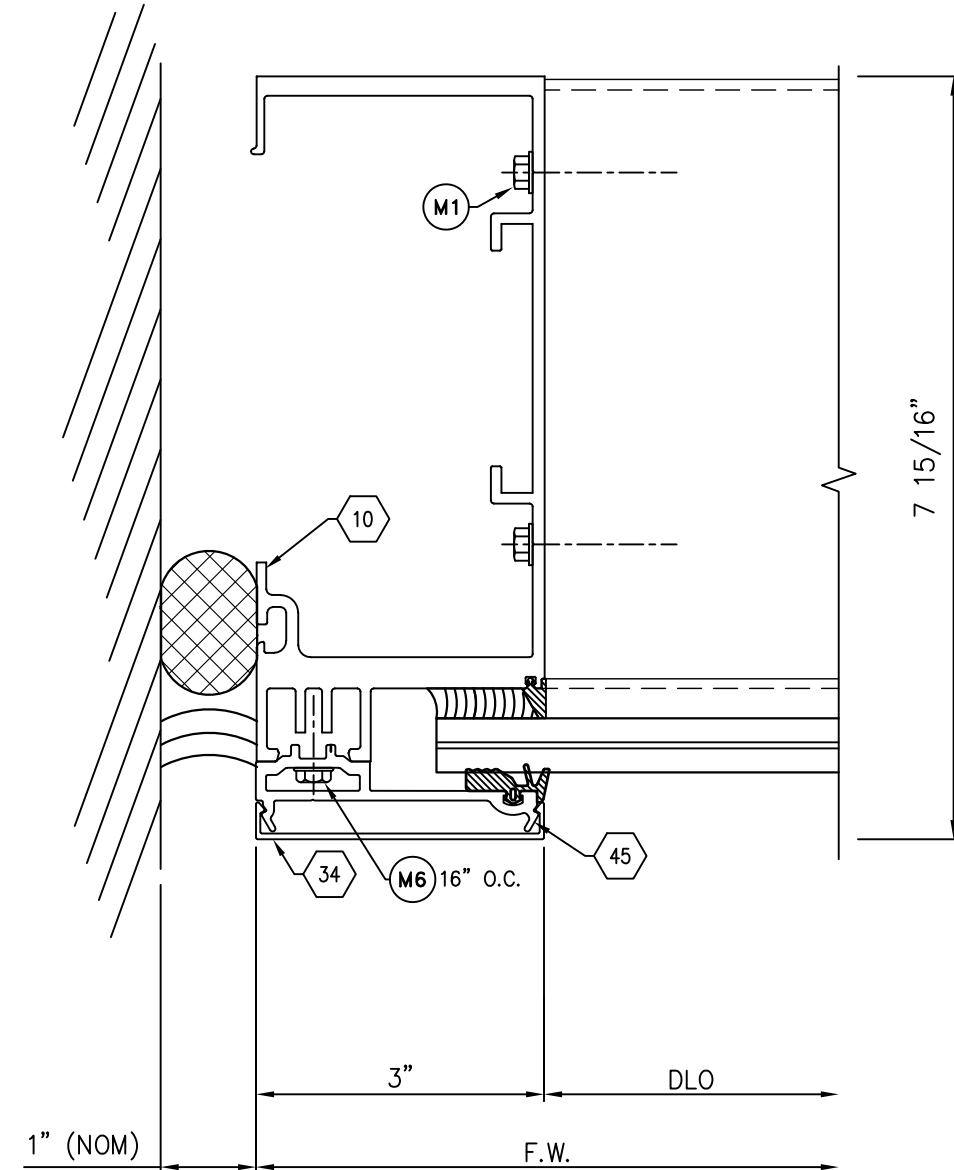
JAMB DETAILS:

SEE SHEETS 9-10 FOR STEEL
REINFORCING REQUIREMENTS.

PERIMETER SEAL MAY BE LOCATED
AT FRAME OR AT PRESSURE PLATE,
DEPENDING ON FIELD CONDITIONS.
(HEAD/SILL SIMILAR)



E3



E4

THE 1" CAULK JOINT WIDTH SHOWN IS A NOMINAL DIMENSION. THE SYSTEM HAS BEEN TESTED FOR WIDTHS UP TO 4", BUT ANY SIZE MAY BE USED PROVIDED THE INSTALLATION MEETS THE SEALANT MFTR'S REQUIREMENTS AND ASTM C1472.

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PRINTS	ISSUED FOR	REV.#	DATE	DESCRIPTION
—	2020 CODE UPDATE	5	10/19/21	
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PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020

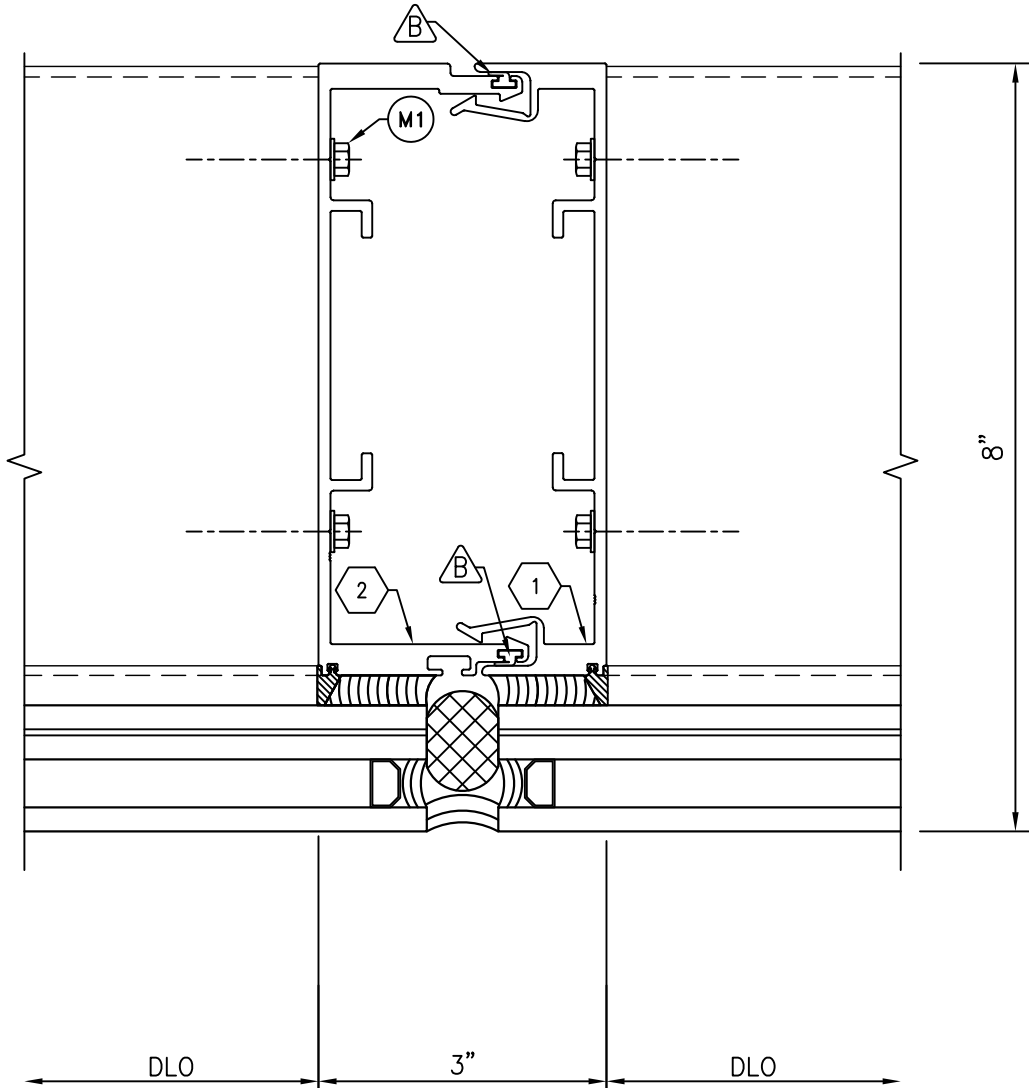


DWG:	RT3-IR
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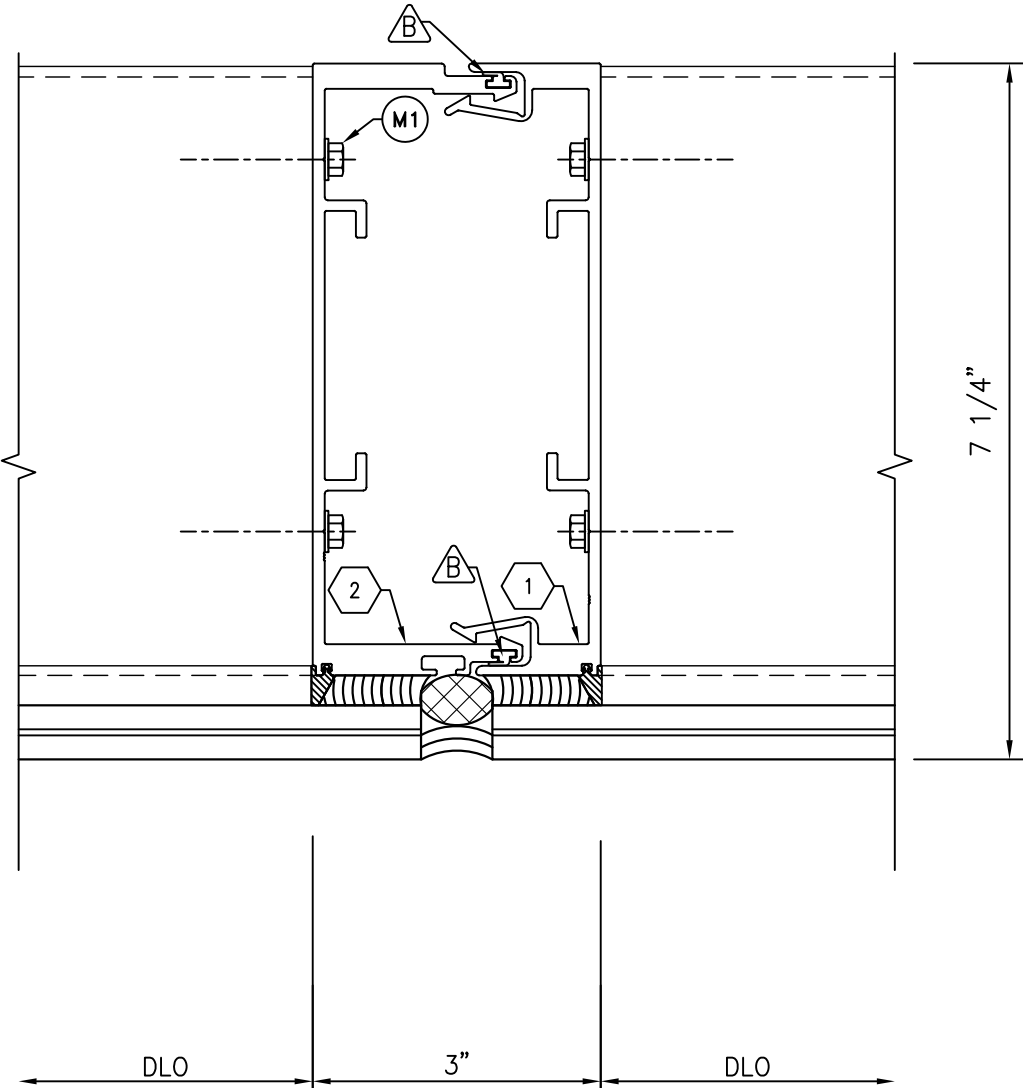
SHEET: 24/54

VERTICAL MULLION DETAILS:

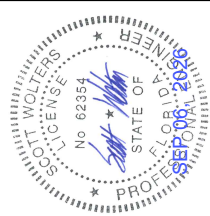
SEE SHEETS 9-10 FOR STEEL
REINFORCING REQUIREMENTS.



F1



F2



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

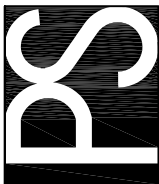
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

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-	-	-	-	-	-
2020 CODE UPDATE	5	10/19/21	DATE	REV.#	DESCRIPTION
PRINTS ISSUED FOR	5	10/19/21	DATE	REV.#	DESCRIPTION

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



DWG:

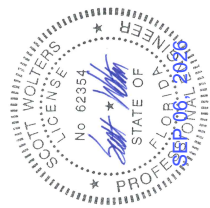
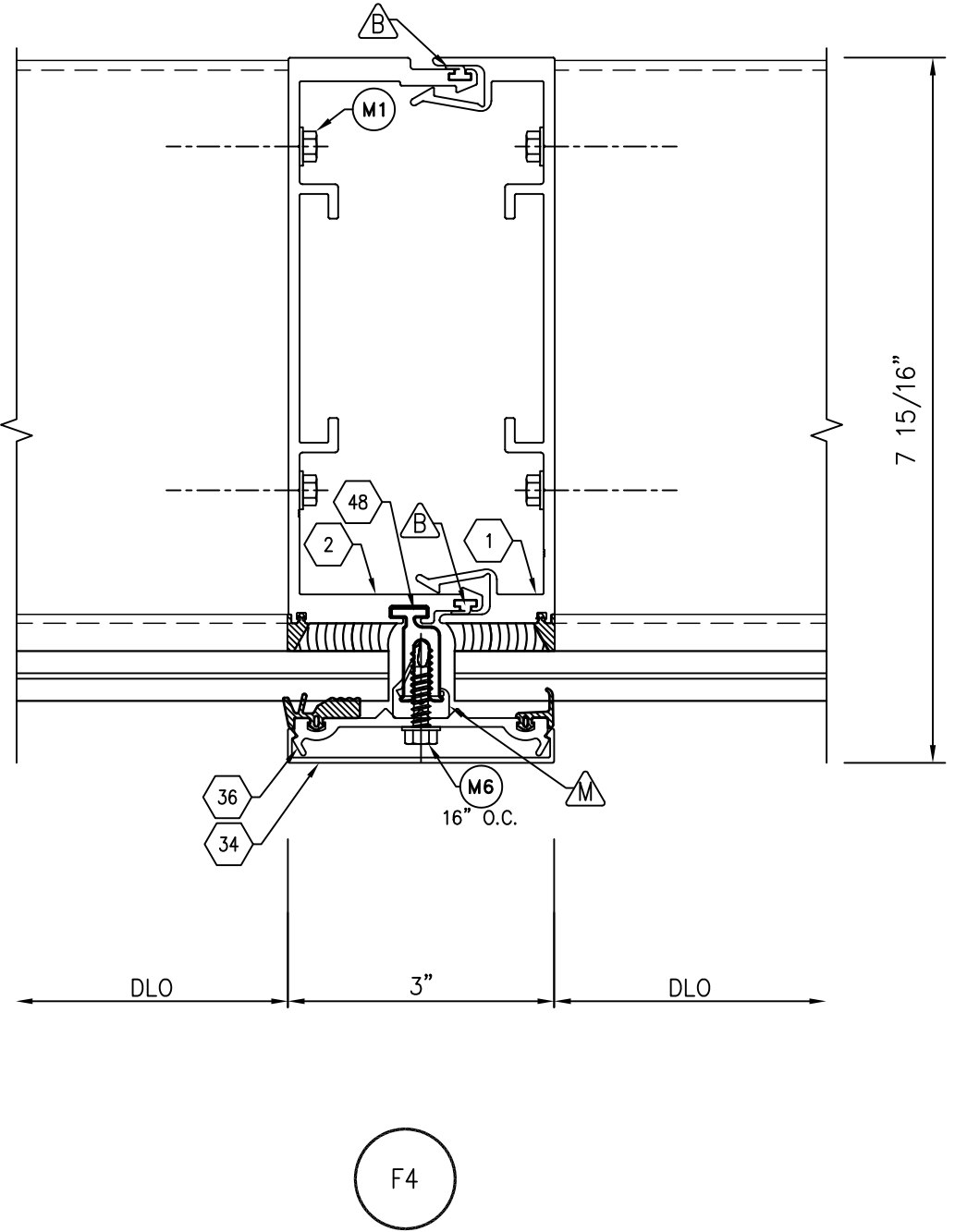
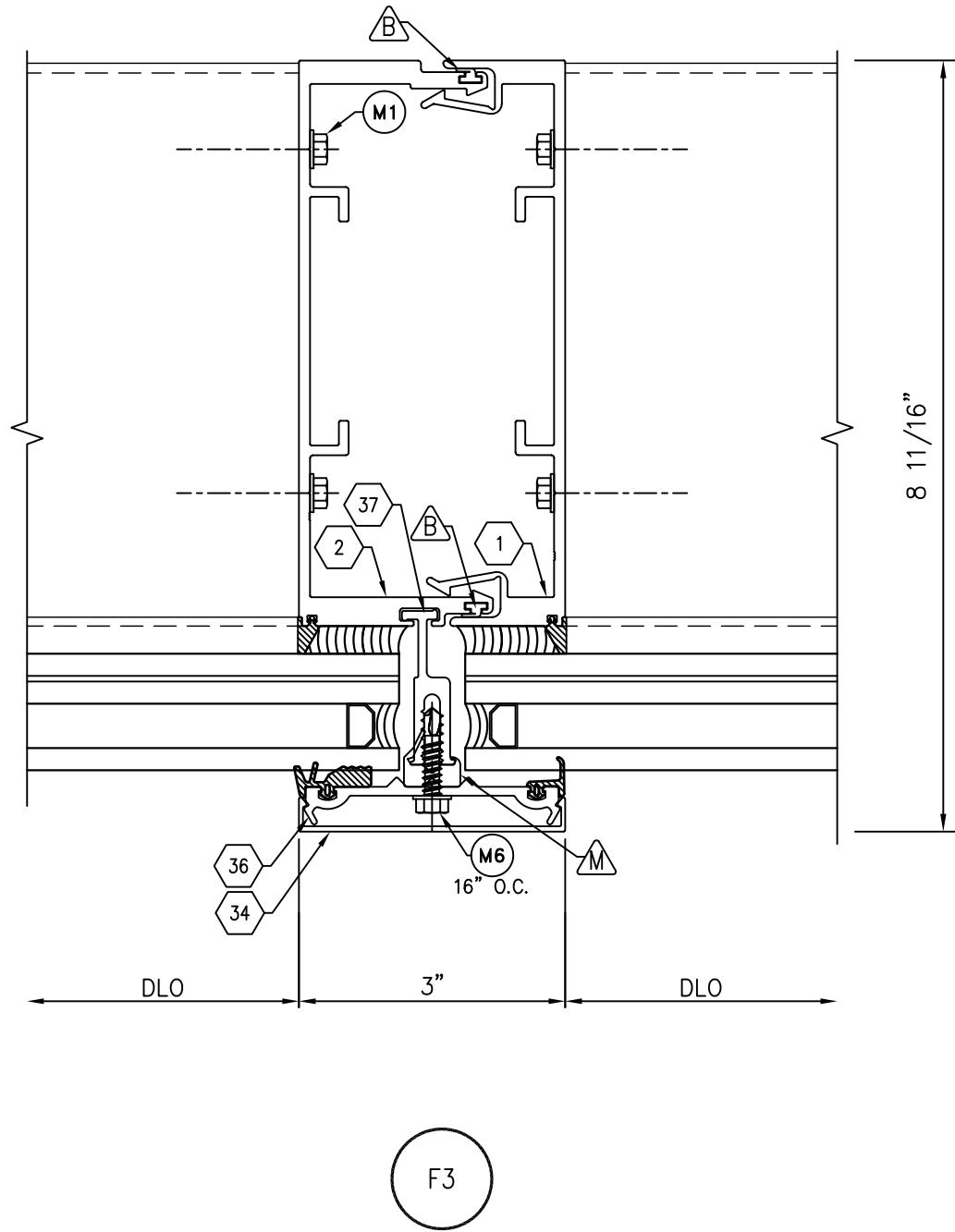
RT3-IR

SHEET:

25/54

VERTICAL MULLION DETAILS:

SEE SHEETS 9-10 FOR STEEL
REINFORCING REQUIREMENTS.



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

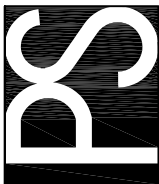
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REV.#	DATE	DESCRIPTION
1		
2		
3		
4		
5	10/19/21	2020 CODE UPDATE
6		PRINTS ISSUED FOR

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



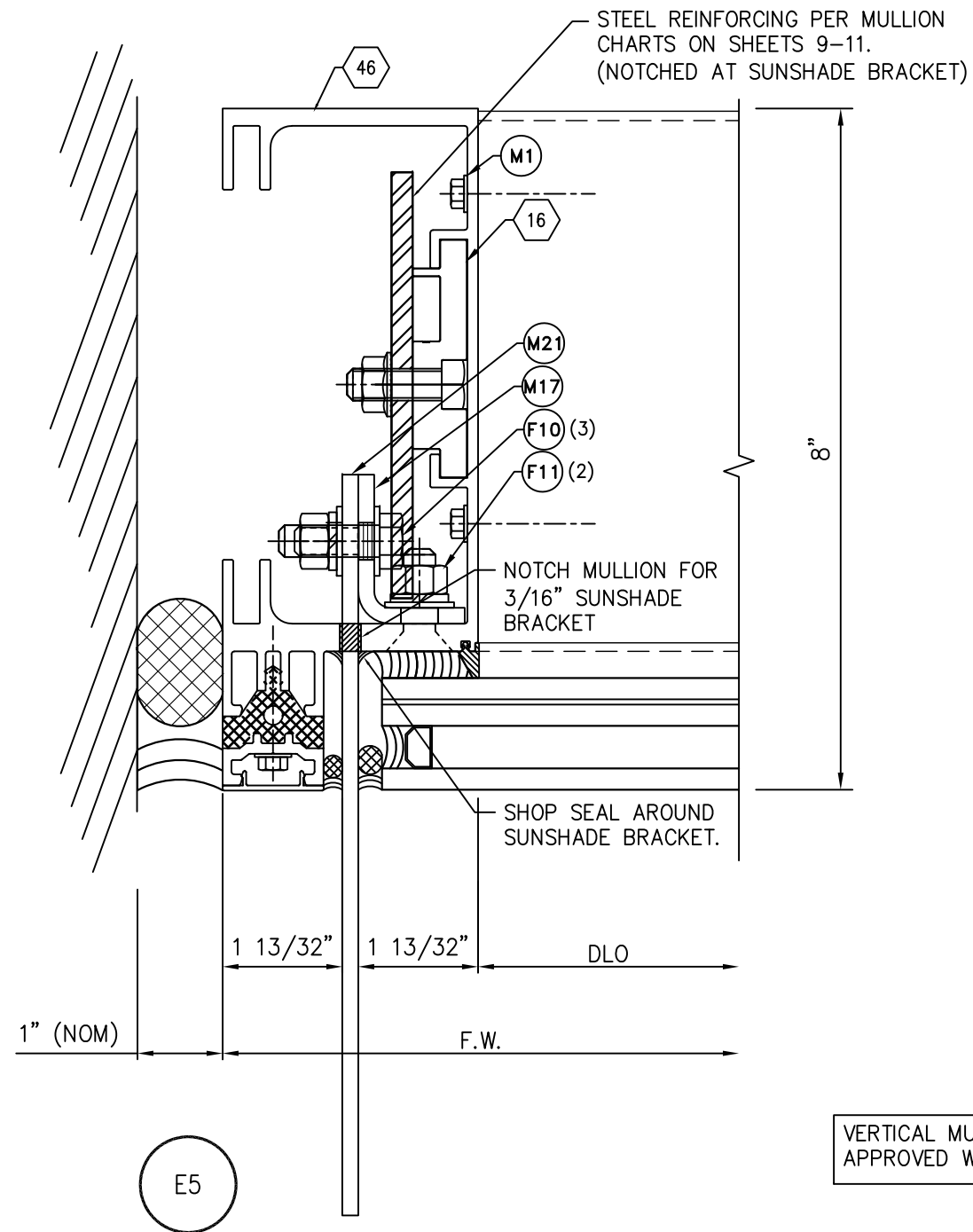
DWG:

RT3-IR

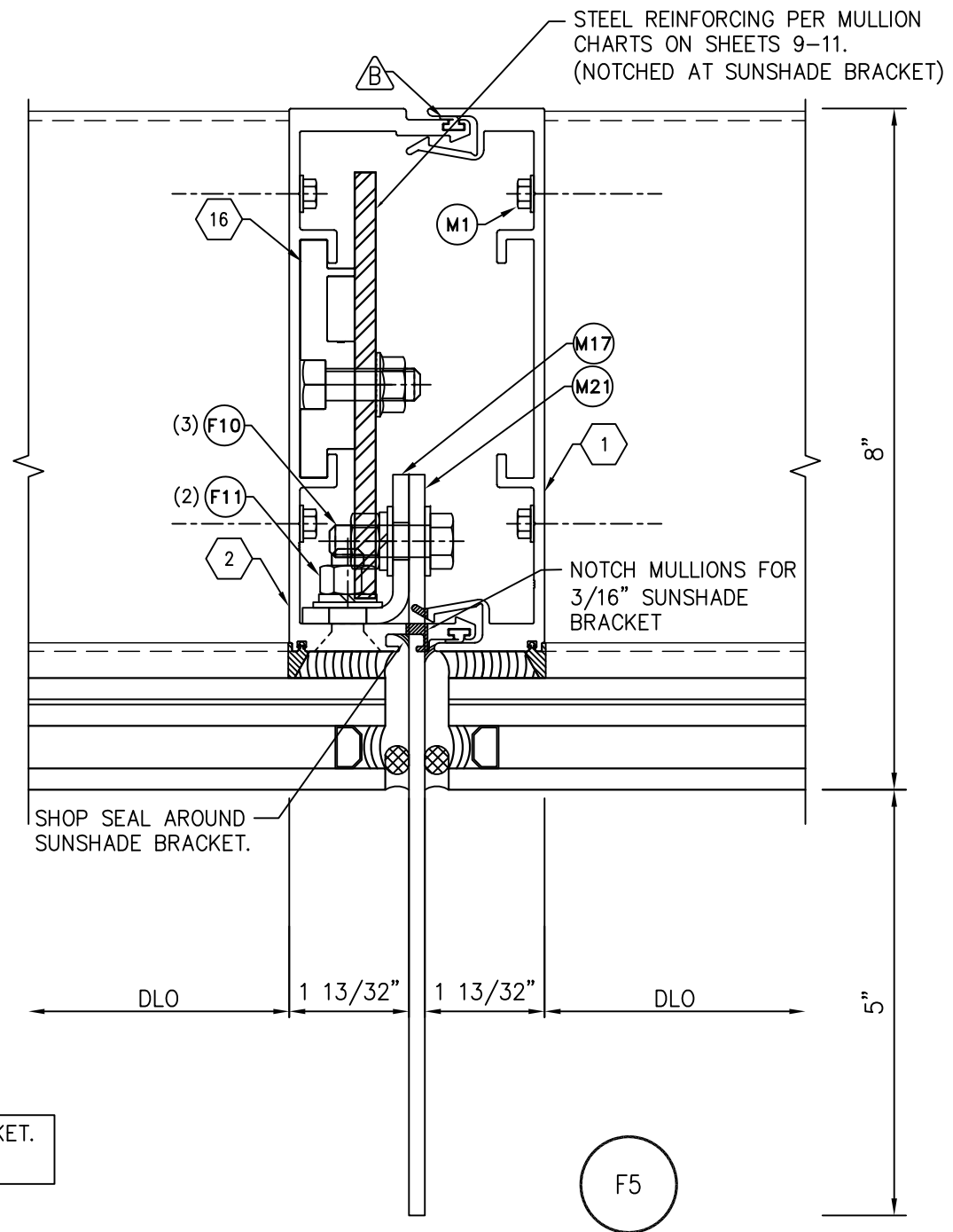
SHEET:

26/54

ALTERNATE DETAILS:



VERTICAL MULLIONS WITH SUNSHADE BRACKET.
APPROVED WITH ALL GLASS TYPES.



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

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PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

HONE: (205)425-4072
FAX: (205)426-3937

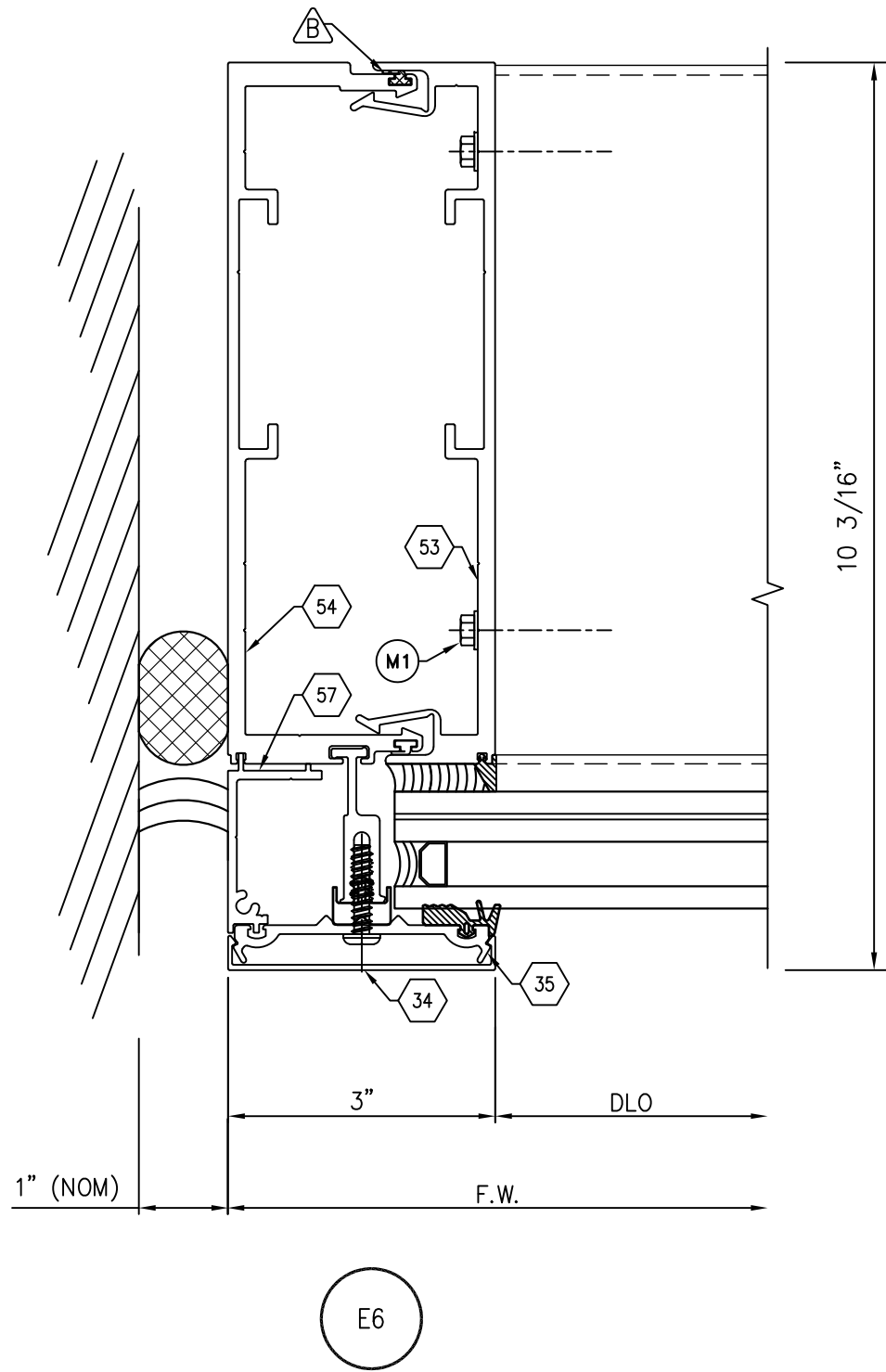


DWG: RT3-IR

SHEET: 27/54

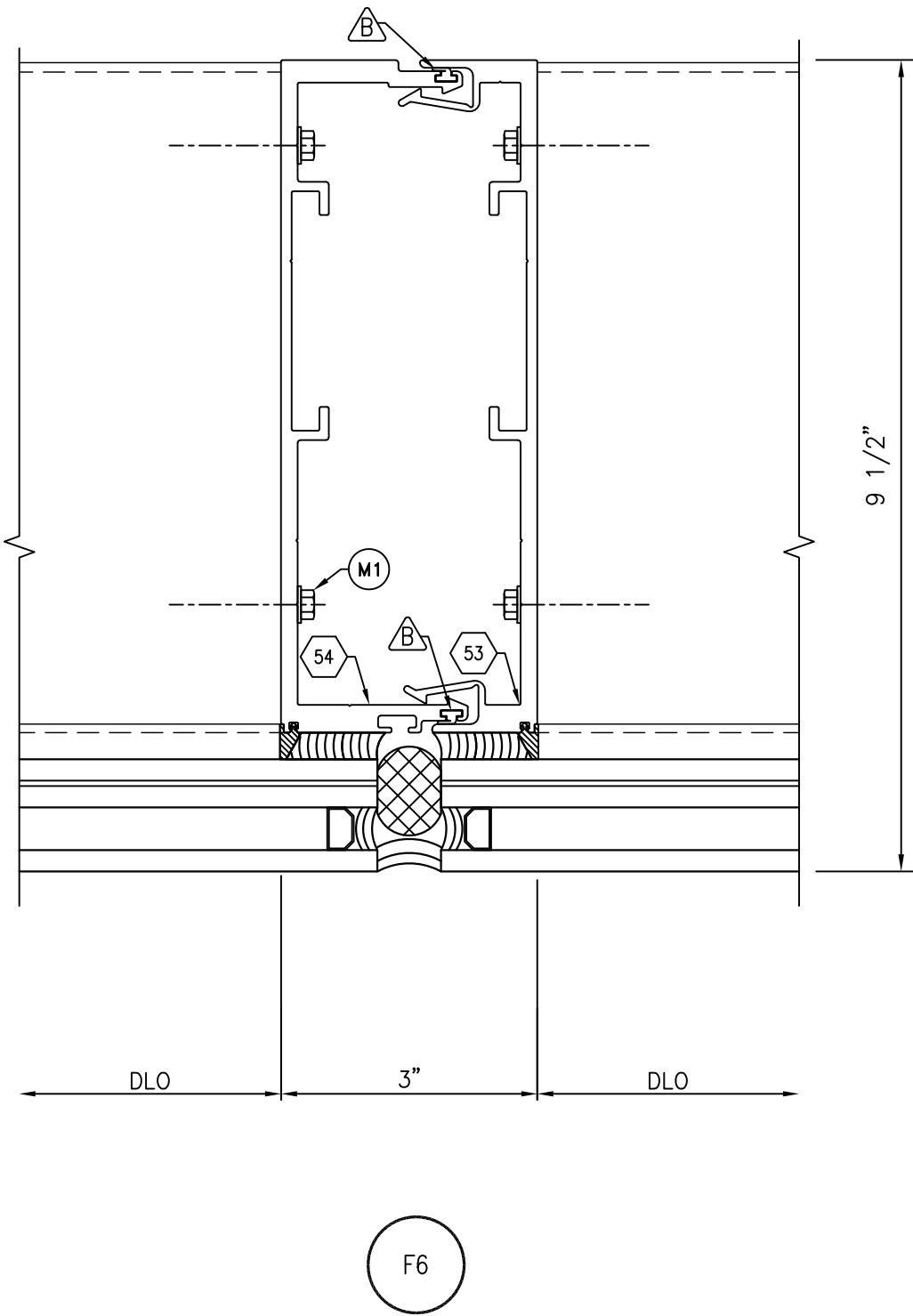
VERTICAL XL MULLION DETAILS:

SEE SHEET 11 FOR STEEL
REINFORCING REQUIREMENTS.

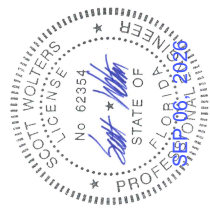


E6

THE 1" CAULK JOINT WIDTH SHOWN IS A NOMINAL DIMENSION.
THE SYSTEM HAS BEEN TESTED FOR WIDTHS UP TO 4", BUT
ANY SIZE MAY BE USED PROVIDED THE INSTALLATION MEETS
THE SEALANT MFTR'S REQUIREMENTS AND ASTM C1472.



F6



SEAL:

SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

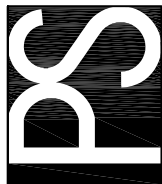
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	10	9/3/24			
2020 CODE UPDATE	5	10/19/21			
PRINTS ISSUED FOR	REV.#	DATE			

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



DWG:

RT3-IR

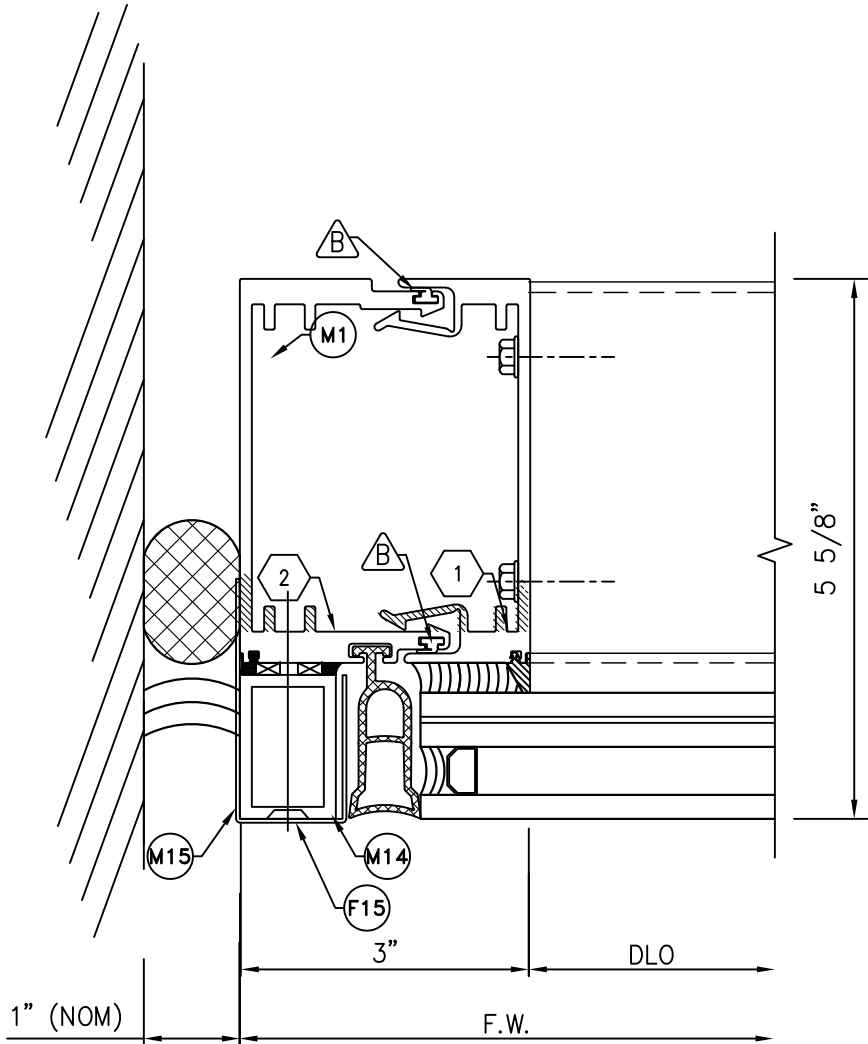
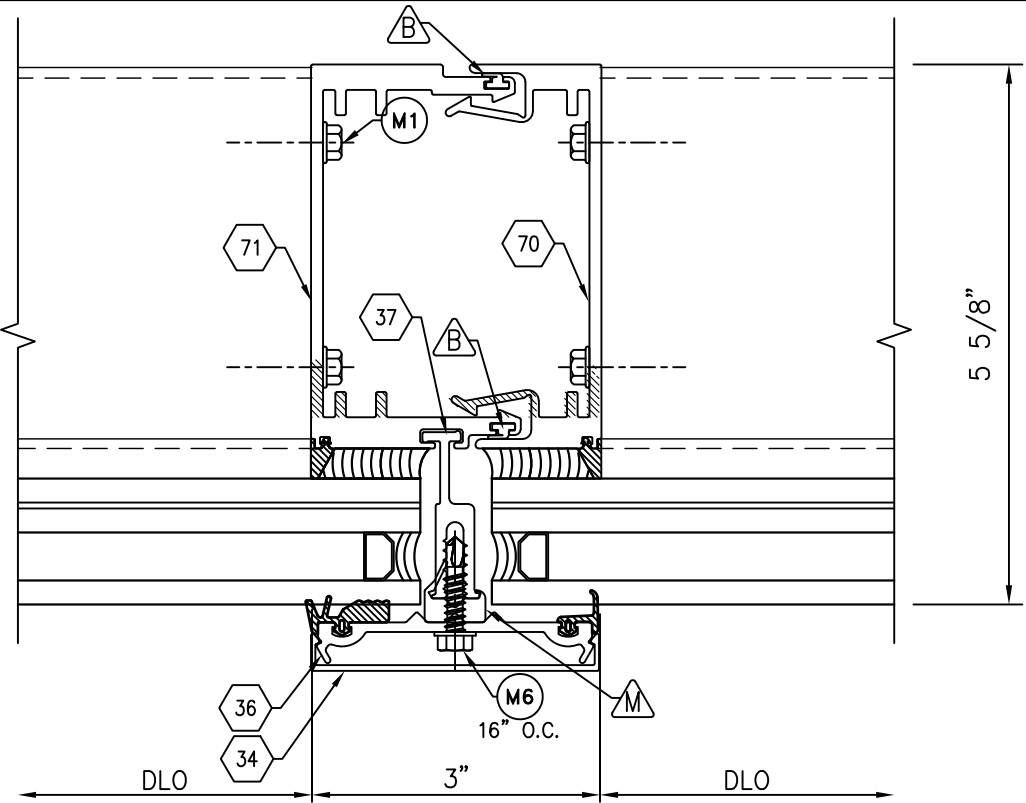
SHEET:

28/54

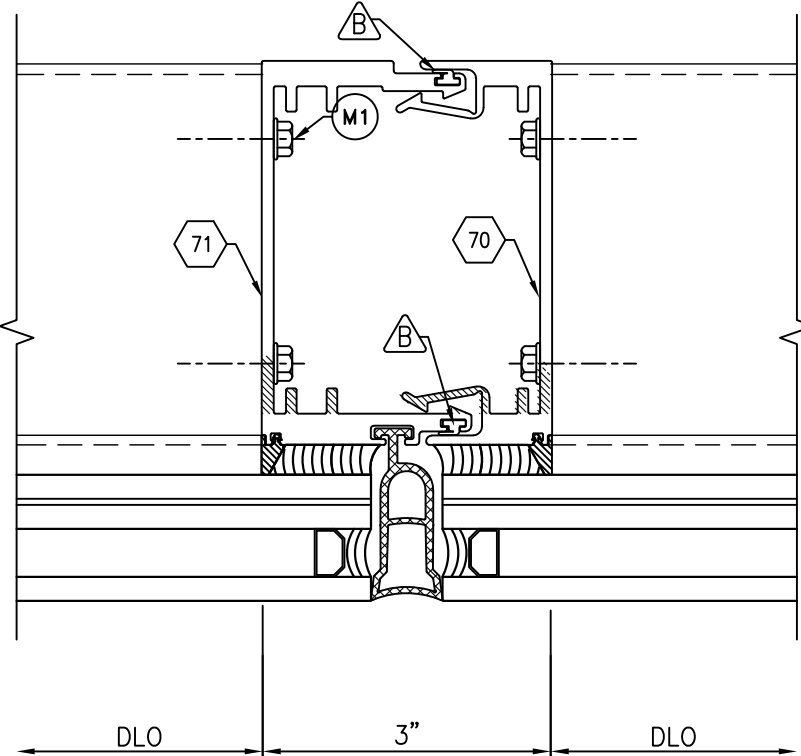
VERTICAL SHALLOW MULLION DETAILS:

THE 1" CAULK JOINT WIDTH SHOWN IS A NOMINAL DIMENSION. THE SYSTEM HAS BEEN TESTED FOR WIDTHS UP TO 4", BUT ANY SIZE MAY BE USED PROVIDED THE INSTALLATION MEETS THE SEALANT MFR'S REQUIREMENTS AND ASTM C1472.

SEE SHEET 9 FOR STEEL REINFORCING REQUIREMENTS.

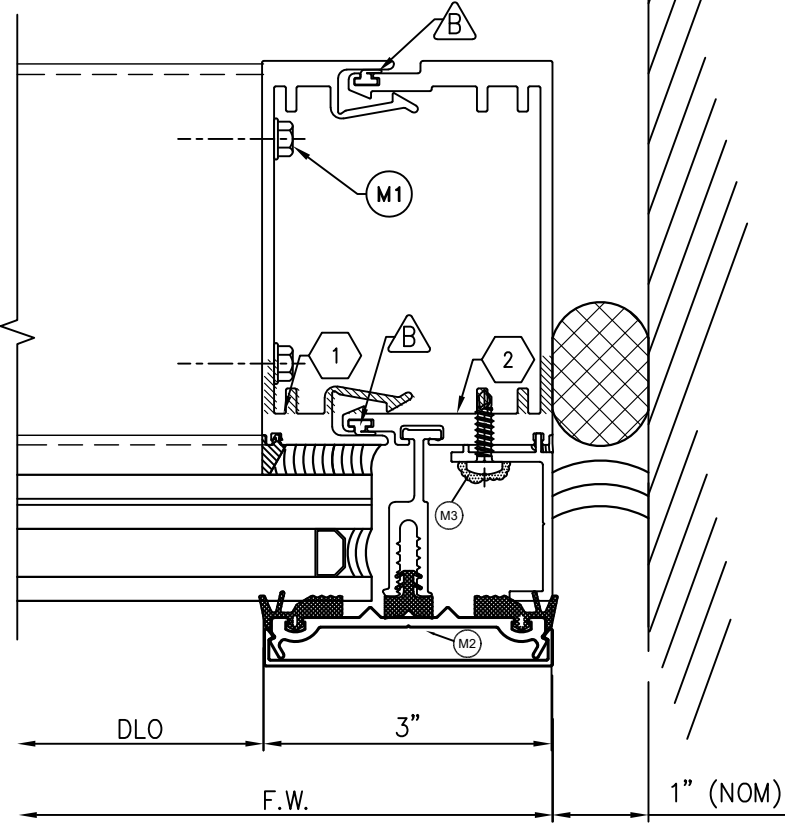


E7

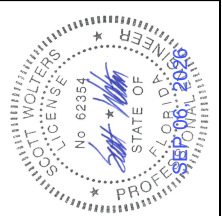


F7

F8



E8



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

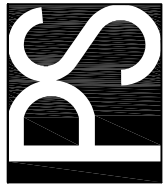
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	ISSUED FOR	REV.#	DATE	DESCRIPTION
12	5/2/25			

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205) 425-4072
FAX: (205) 426-3937

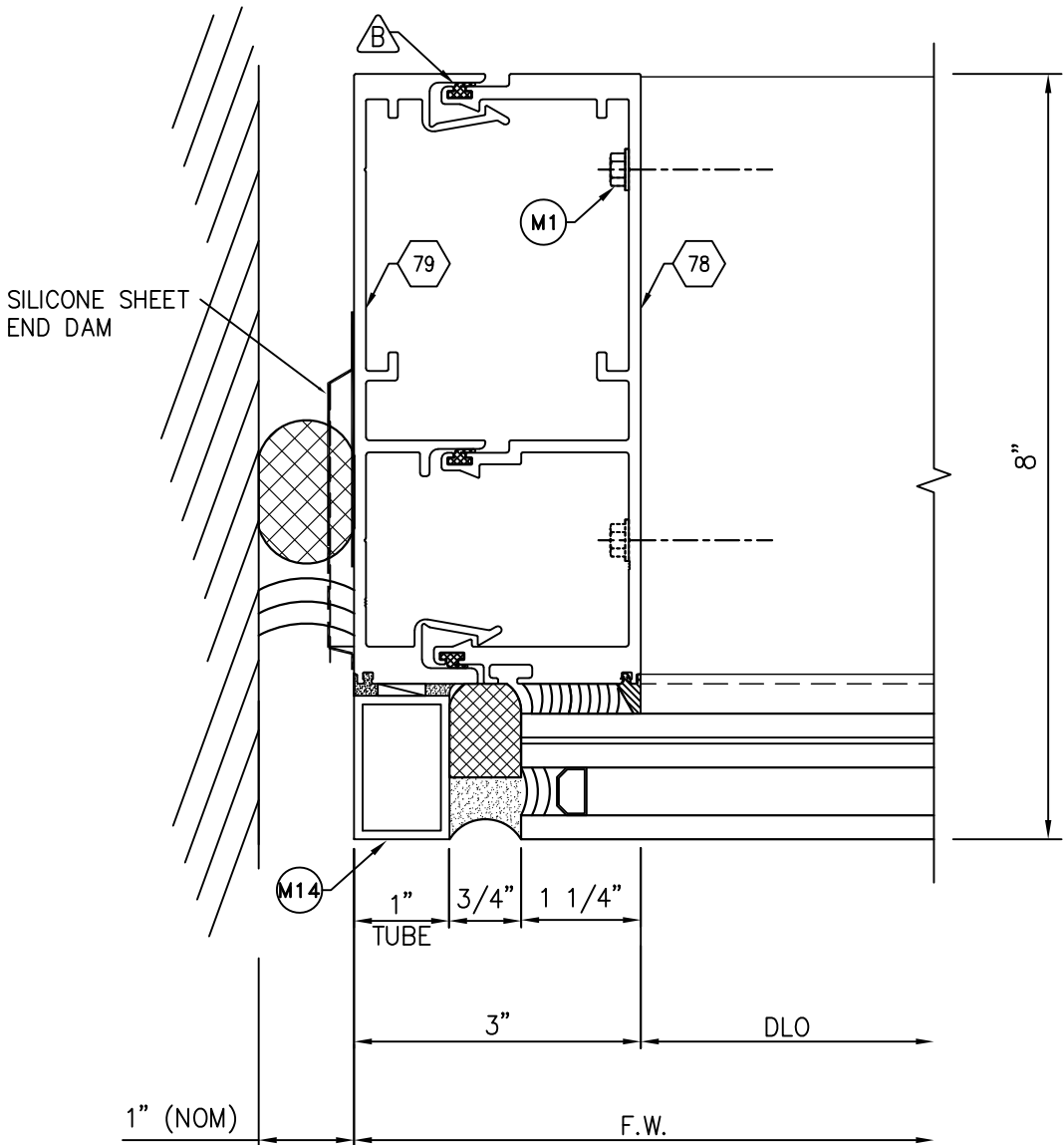


DWG: RT3-IR

SHEET: 29/54

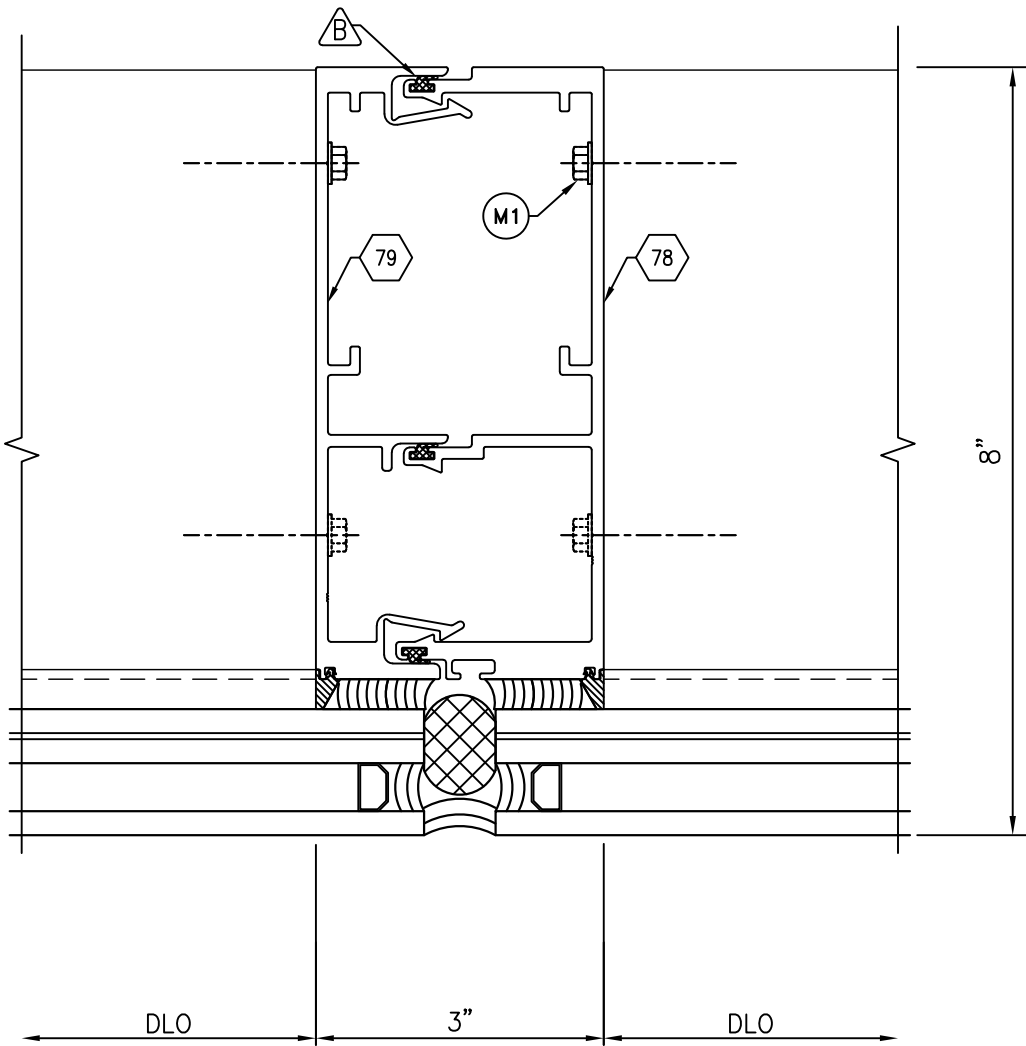
ALTERNATE VERTICAL DETAILS:

SEE SHEET 10 FOR STEEL
REINFORCING REQUIREMENTS.

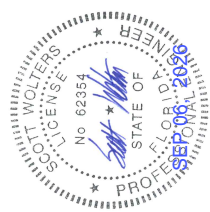


E9

THE 1" CAULK JOINT WIDTH SHOWN IS A NOMINAL DIMENSION.
THE SYSTEM HAS BEEN TESTED FOR WIDTHS UP TO 4", BUT
ANY SIZE MAY BE USED PROVIDED THE INSTALLATION MEETS
THE SEALANT MFTR'S REQUIREMENTS AND ASTM C1472.



F9



SEAL:

SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
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(561) 225-1982

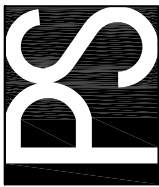
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REV.#	DATE	DESCRIPTION
14	10/31/25	REVISION - NEW SHEET
15		PRINTS ISSUED FOR

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



DWG:

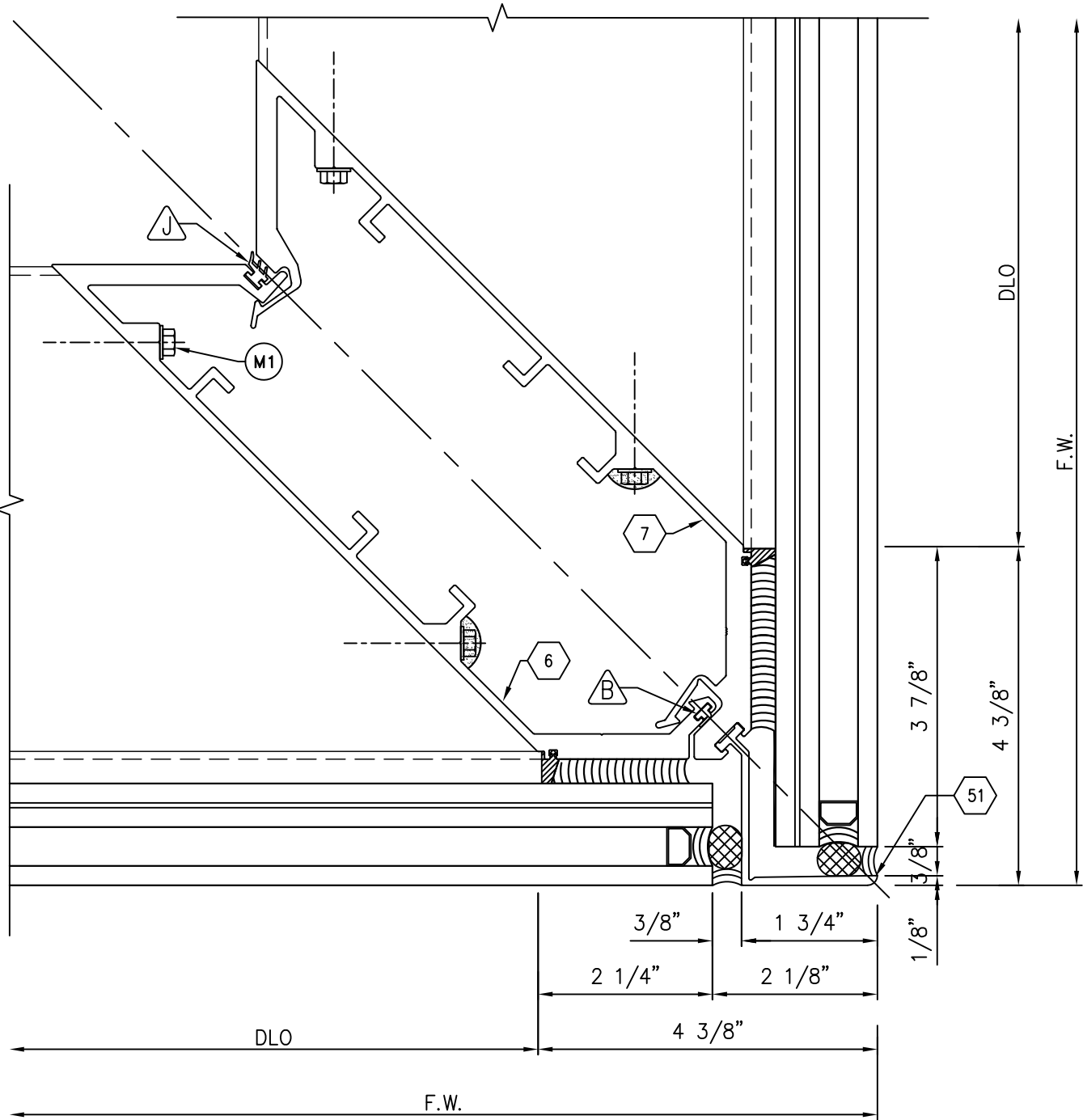
RT3-IR

SHEET:

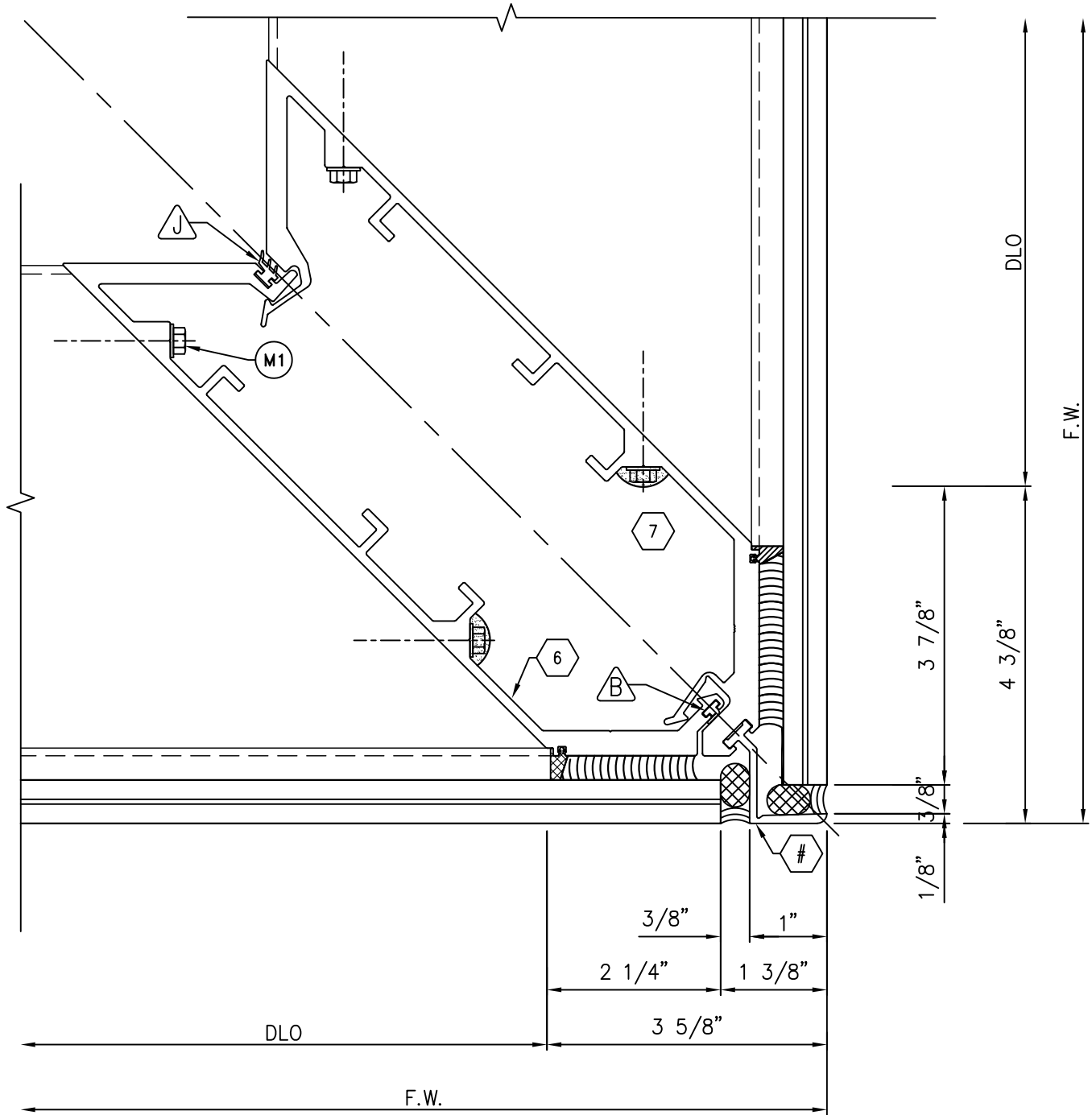
30/54

CORNER DETAILS:

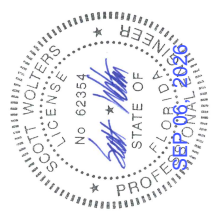
SEE SHEET 33 FOR STEEL
REINFORCING REQUIREMENTS.



J1



J2



SEAL:

SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REV.#	DATE	DESCRIPTION
1		
2		
3		
4		
5	10/19/21	2020 CODE UPDATE
		PRINTS ISSUED FOR

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937

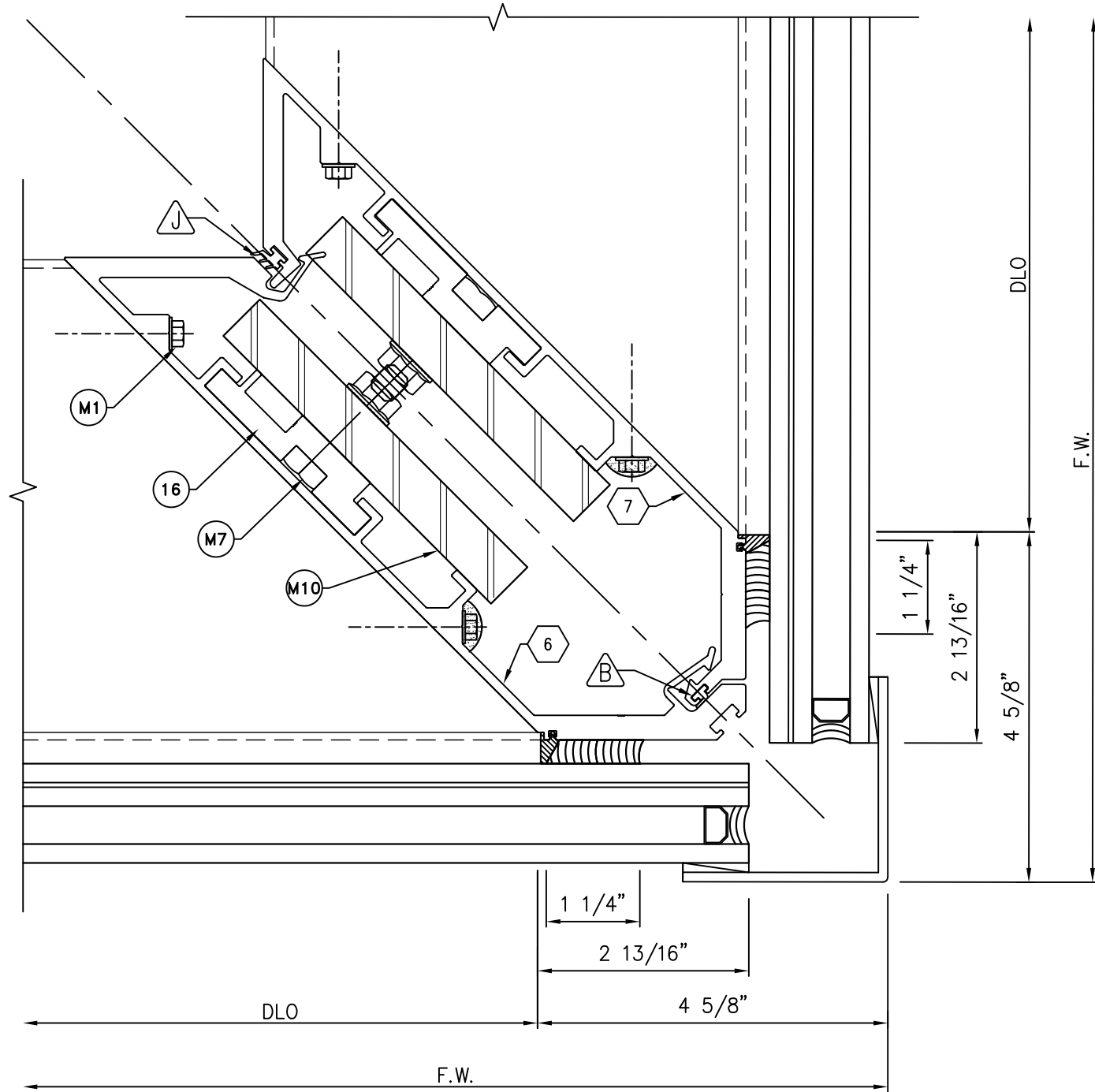
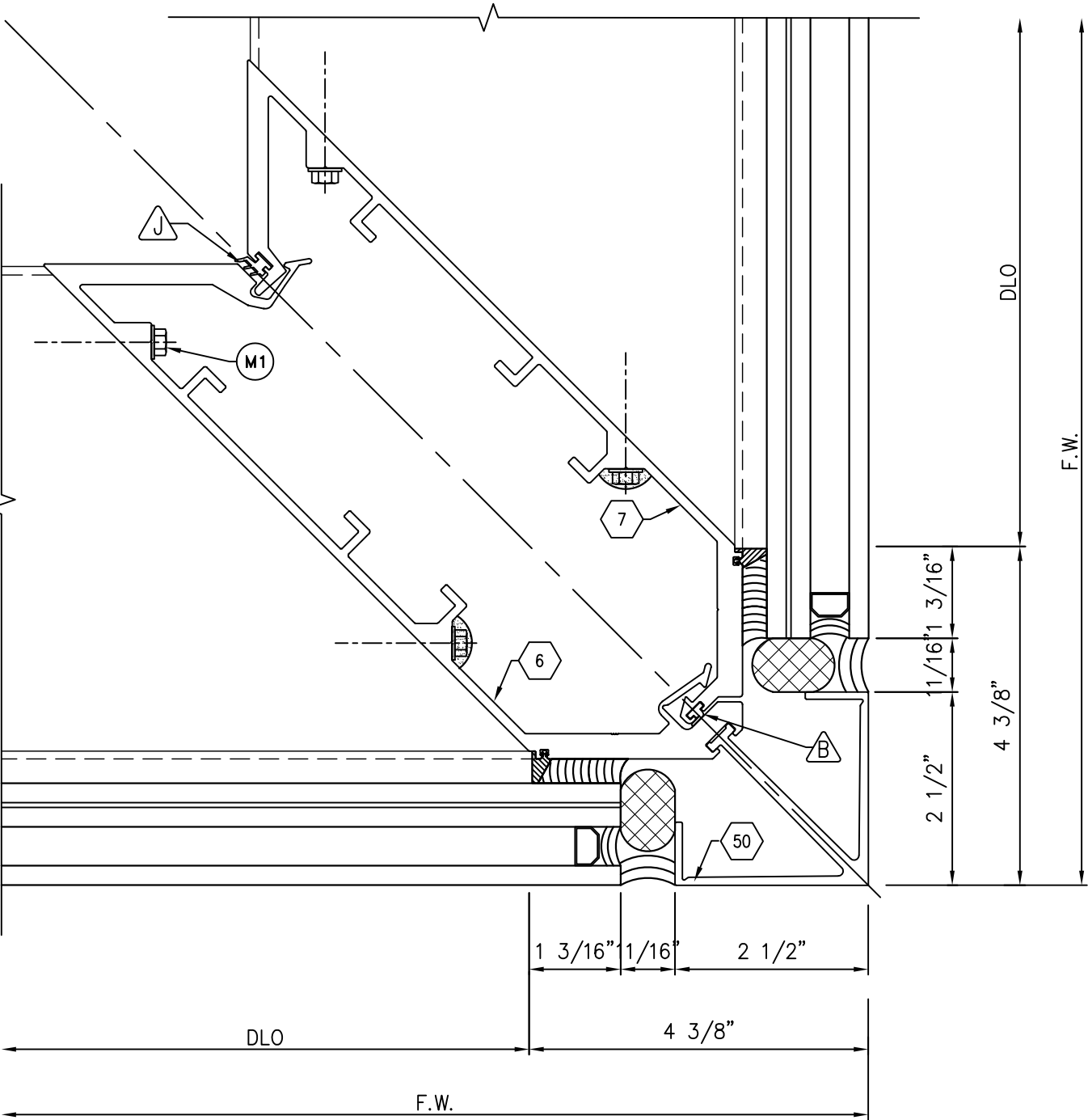


DWG: RT3-IR

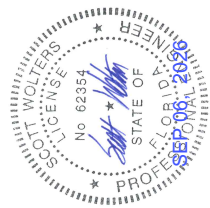
SHEET: 31/54

CORNER DETAILS:

SEE SHEET 33 FOR STEEL
REINFORCING REQUIREMENTS.



REINFORCED CORNER MULLION SHOWN
IN DETAIL J4 MAY BE USED WITH THE
CAPTURED SYSTEM TO A MAX. WIND-
LOAD OF +/- 120 psf. STEEL LENGTH
EQUALS SPAN LENGTH - 48".



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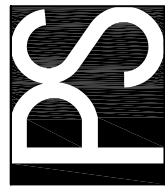
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REV.#	DATE	DESCRIPTION
5	10/19/21	2020 CODE UPDATE
PRINTS	ISSUED FOR	REV.#

PHYSICAL SECURITY, LLC

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BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



DWG: RT3-IR

SHEET: 32/54

CORNER DETAILS:

SINGLE or MULTI-SPAN MULLIONS:

CORNER MULLON LIMITATIONS:

CORNER MULLIONS MUST MEET ALL OF THE FOLLOWING CRITERIA:

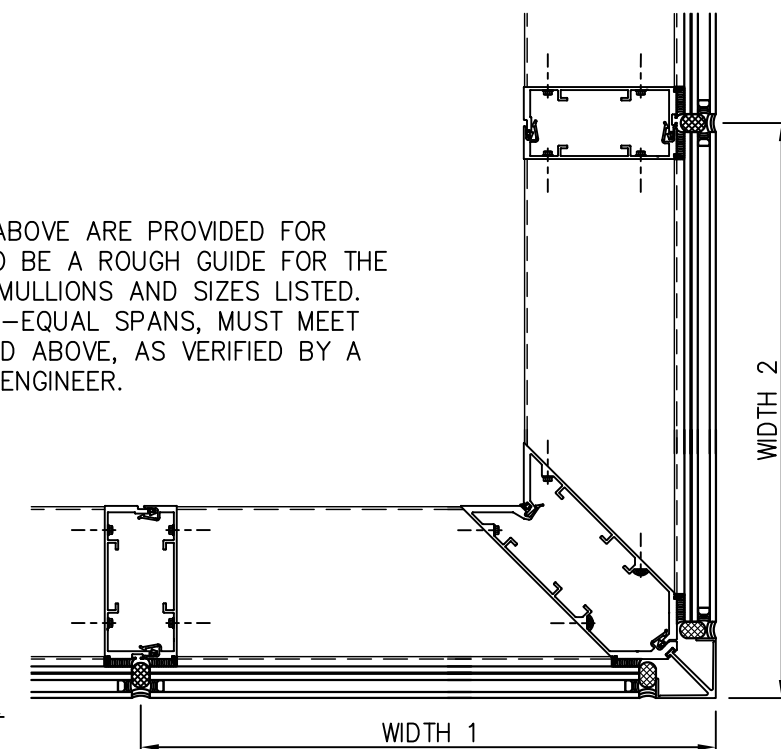
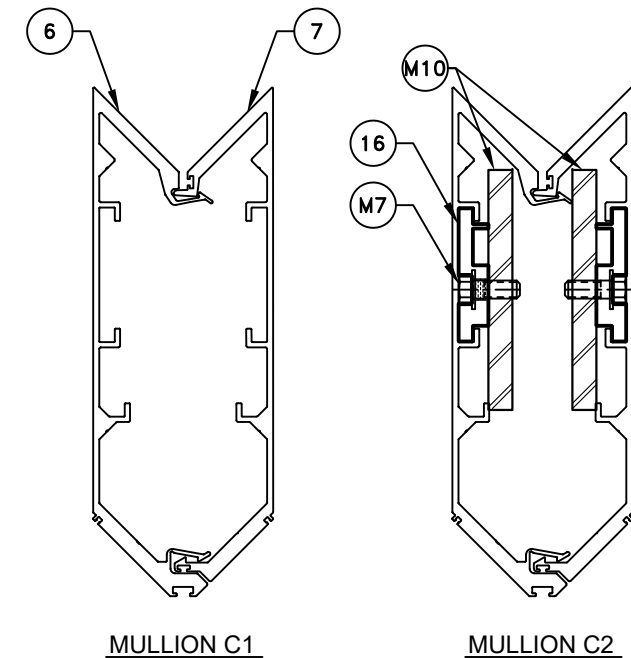
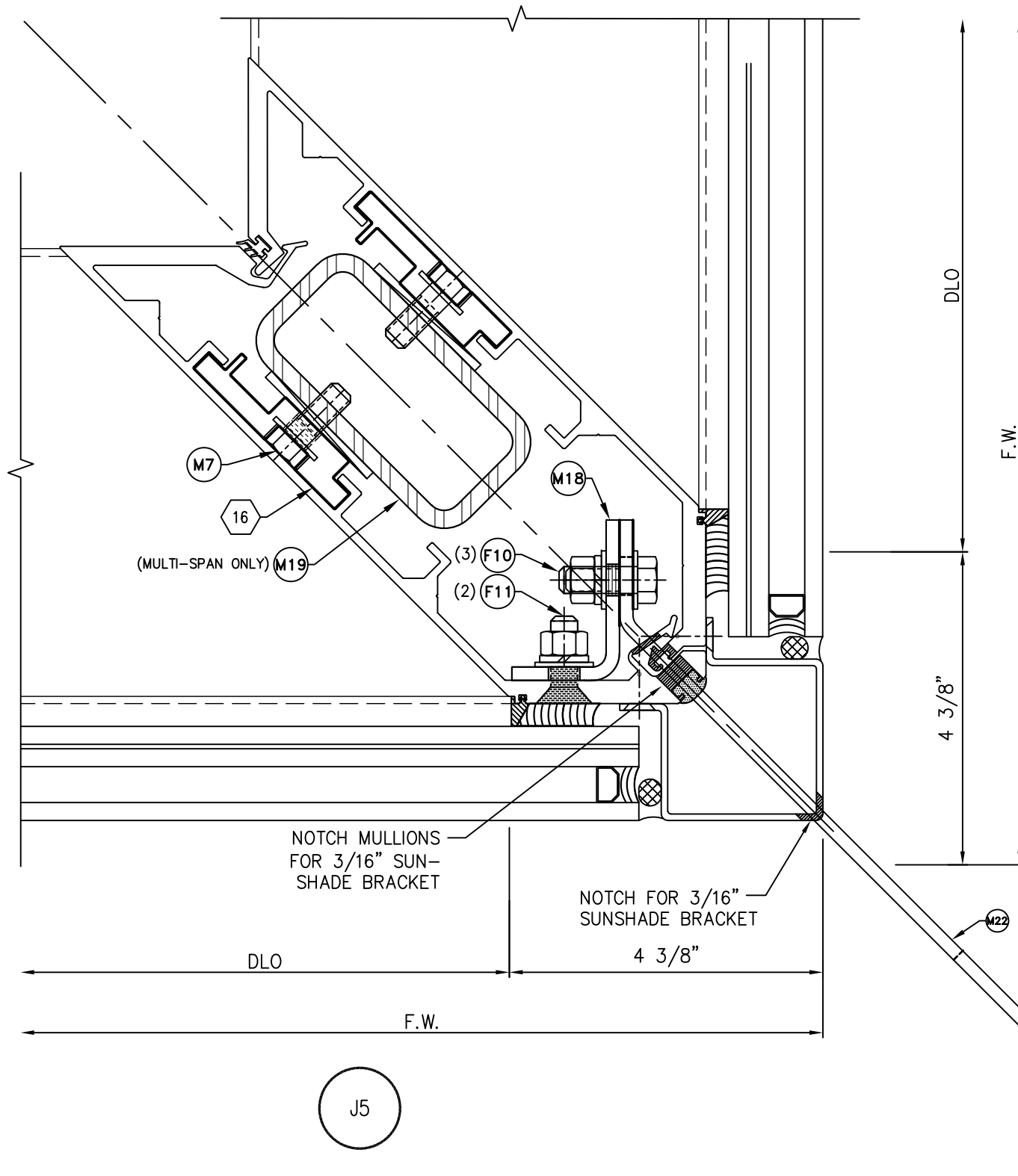
1. MAX PRESSURE = ± 120 psf (CAPTURED APPLICATIONS)
 ± 100 psf (SSG APPLICATIONS)
2. MAX SPAN TRIB. AREA = 56.2 sqft (MULLION C1)
62 sqft (MULLION C2)
3. MAX. SPAN HEIGHT IN HVHZ = 174 in (MULLION C1)
192 in (MULLION C2)
4. MAX BENDING MOMENT = 100,700 in-lb (MULLION C1)
165,100 in-lb (MULLION C2)
5. MAX REACTION AT MID-SPAN ANCHORS = 6,900 lb.
7. MAX REACTION AT HEAD/SILL ANCHORS = 3520 lb.
8. MAX REACTION AT STARTER SILL ANCHOR = 3520 lb.

NOTES: 1. SPAN TRIB. AREA = ANCHOR-TO-ANCHOR HEIGHT x
PROJECTED WIDTH.
2. PROJECTED WIDTH IS MEASURED FROM CENTER OF DLO
TO CENTER OF DLO.

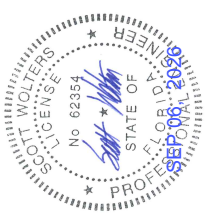
MULLION LOAD CAPACITY (PSF)			
NOMINAL DIMENSIONS		CORNER MULLION "C1"	CORNER MULLION "C2"
CORNER SPACING (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
48	144	100	120
54		100	120
60		100	120
63 3/4		100	120
48	156	100	120
54		100	120
60		100	120
63 3/4		100	120
48	162	100	120
54		100	120
60		100	120
63 3/4		100	120
48	168	100	120
54		100	120
60		100	120
63 3/4		100	120
48	174	100	120
54		100	120
60		100	120
63 3/4		100	120
48	180	100	120
54		100	120
60		95	120
63 3/4		90	120
48	192	100	120
54		88	120
60		80	120
63 3/4		75	120

MULTI-SPAN CORNER NOTES:

1. THE EQUAL SPAN VALUES LISTED ABOVE ARE PROVIDED FOR CONVENIENCE, AND ARE MEANT TO BE A ROUGH GUIDE FOR THE ALLOWABLE PRESSURES FOR THE MULLIONS AND SIZES LISTED.
2. ALL MULLIONS, WITH EQUAL OR UN-EQUAL SPANS, MUST MEET THE MULLION REQUIREMENTS LISTED ABOVE, AS VERIFIED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER.



$$\text{CORNER SPACING} = \frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$$



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PHYSICAL SECURITY, LLC

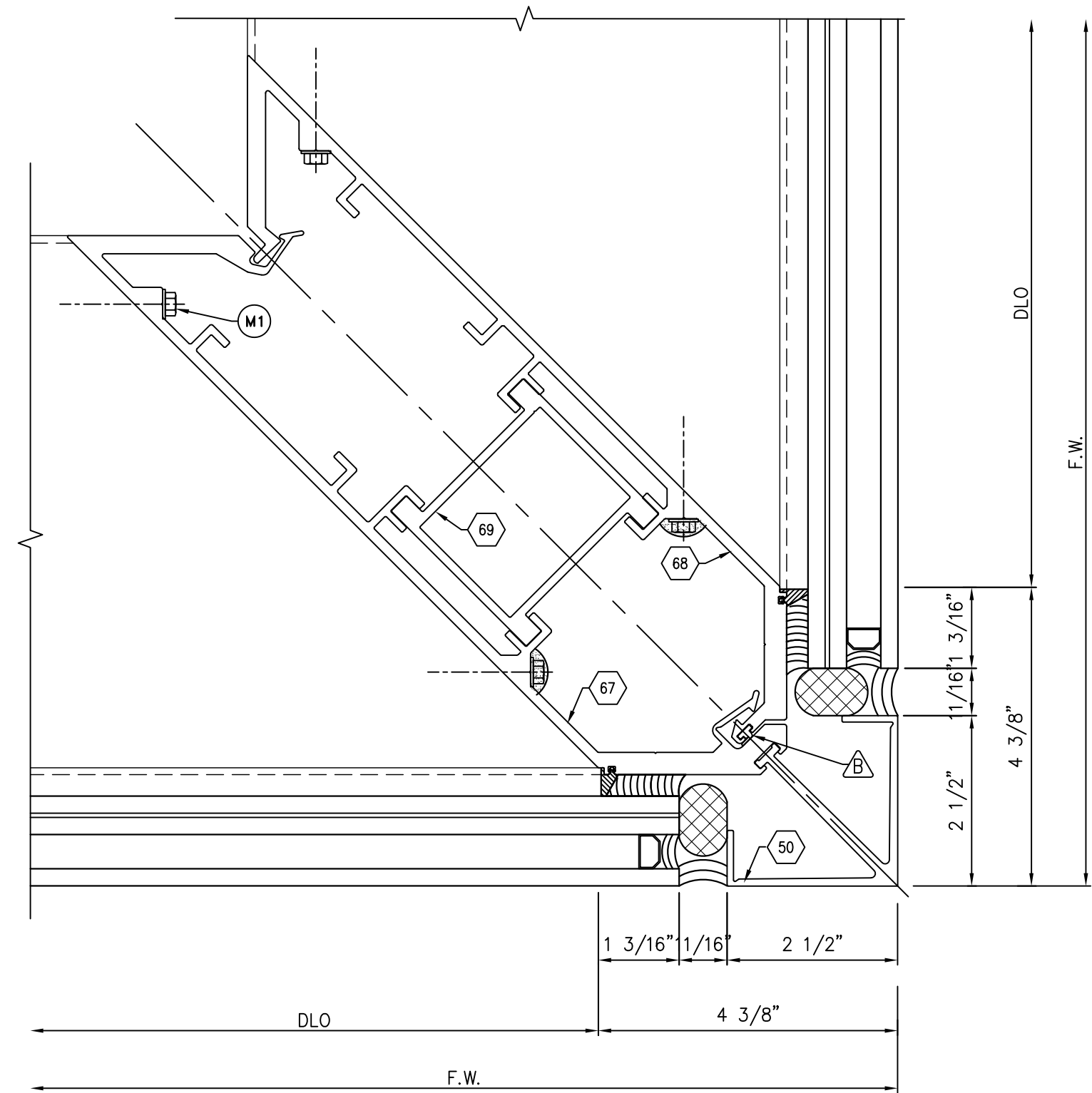
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937



DWG: DT2 ID

SHEET: 33/54

XL CORNER DETAILS:



J6

SINGLE or MULTI-SPAN MULLIONS:

CORNER MULLION LIMITATIONS:

CORNER MULLIONS MUST MEET ALL OF THE FOLLOWING CRITERIA:

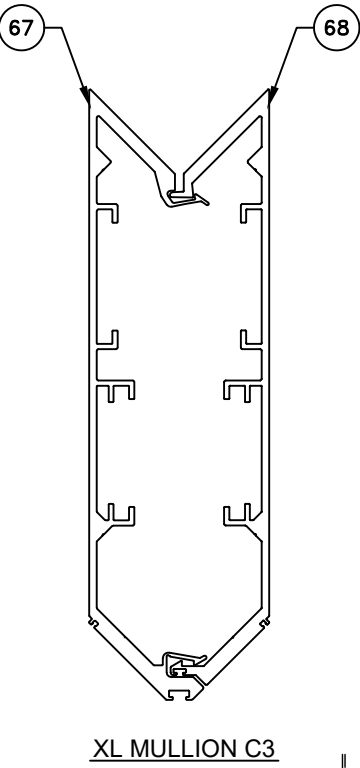
1. MAX PRESSURE = +100 psf / -132 psf
2. MAX SPAN TRIB. AREA = 61.72 sqft.
3. MAX. SPAN HEIGHT IN HVHZ = 180 in
4. MAX BENDING MOMENT = 171,400 in-lb.
5. MAX REACTION AT MID-SPAN ANCHORS = 7,640 LB.
6. MAX REACTION AT HEAD/SILL ANCHORS = 3940 LB.
7. MAX REACTION AT STARTER SILL ANCHOR = 3090 LB.

- NOTES:
1. SPAN TRIB. AREA = ANCHOR-TO-ANCHOR HEIGHT x PROJECTED WIDTH.
 2. PROJECTED WIDTH IS MEASURED FROM CENTER OF DLO TO CENTER OF DLO.

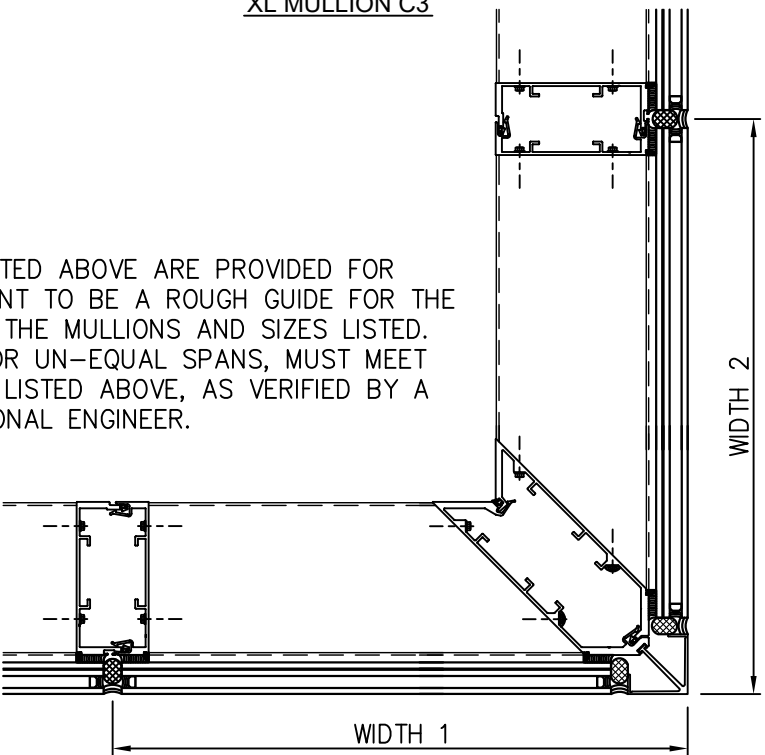
CORNER MULLION LOAD CAPACITY (PSF)			
NOMINAL DIMENSIONS		CORNER MULLION "C3"	
CORNER SPACING (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
48	144	100	132
54		100	132
60		100	132
66		100	132
48	156	100	132
54		100	132
60		100	132
66		100	132
48	168	100	132
54		100	132
60		100	132
66		100	132
48	180	100	132
54		100	132
60		100	132
66		100	132
51	192	100	132
55		100	132
59		97.1	128
65		88.6	117
51	204	94.4	124.7
55		87.2	115.1
59		81	106.8
64		78.2	103.2
51	216	79.5	105
55		73.4	97
57		69.8	92.2

MULTI-SPAN CORNER NOTES:

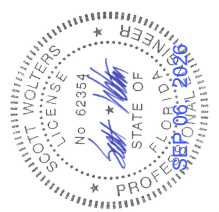
1. THE EQUAL SPAN VALUES LISTED ABOVE ARE PROVIDED FOR CONVENIENCE, AND ARE MEANT TO BE A ROUGH GUIDE FOR THE ALLOWABLE PRESSURES FOR THE MULLIONS AND SIZES LISTED.
2. ALL MULLIONS, WITH EQUAL OR UN-EQUAL SPANS, MUST MEET THE MULLION REQUIREMENTS LISTED ABOVE, AS VERIFIED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER.



XL MULLION C3



CORNER SPACING = $\frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$



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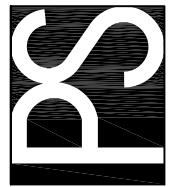
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	DATE	REV.#	DESCRIPTION
10	9/3/24	1	
7	4/24/23	2	
5	10/19/21	3	
2020 CODE UPDATE		4	
PRINTS ISSUED FOR		5	

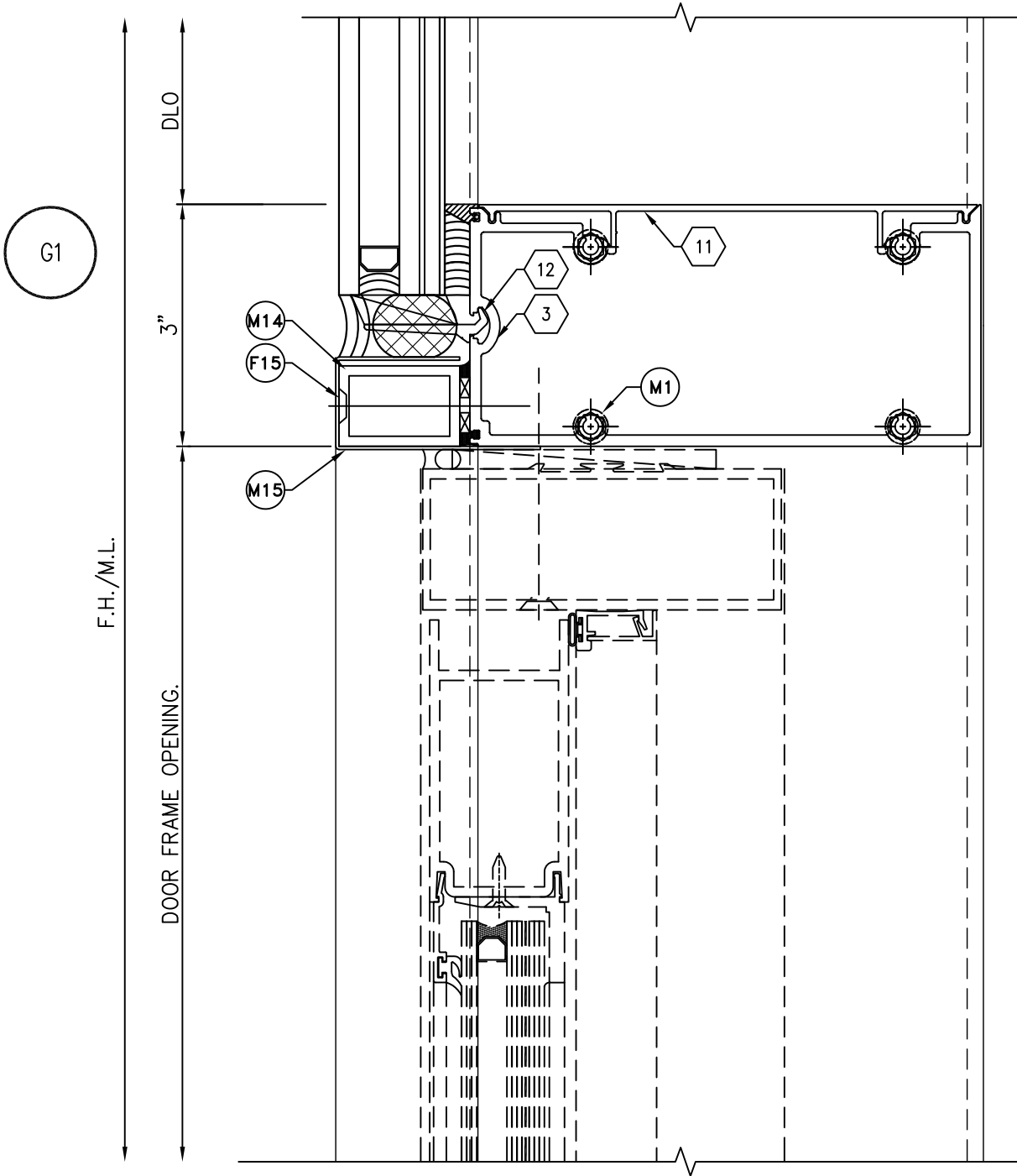
PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



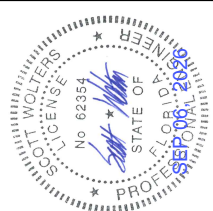
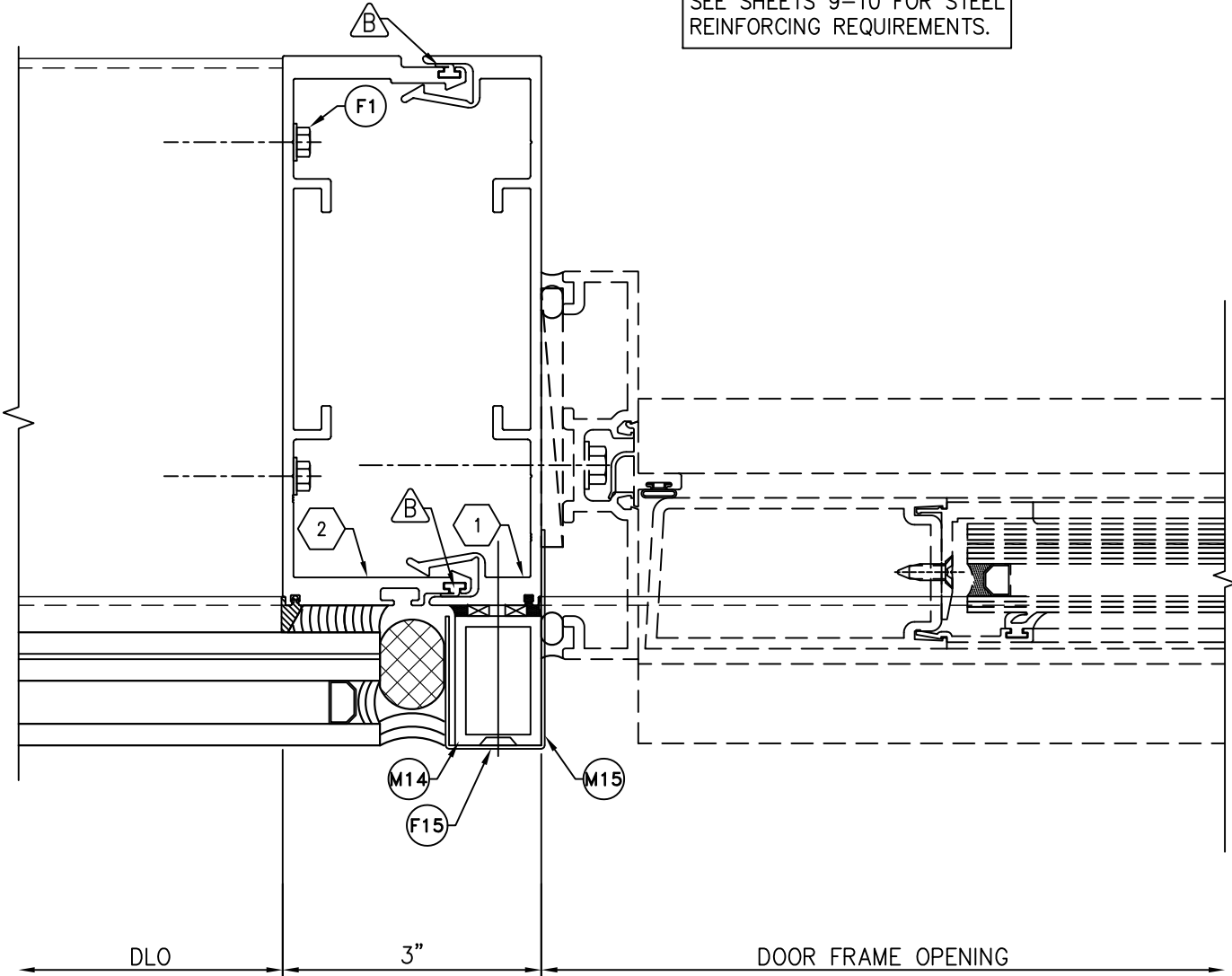
DOOR DETAILS:



SSG SYSTEM WITH INSULATED GLASS SHOWN.
MONOLITHIC GLASS IS SIMILAR.

THE DOOR DETAILS SHOWN ARE FOR REFERENCE ONLY.
ANY FBC APPROVED DOOR MAY BE USED WITH THIS
SYSTEM. PLEASE SEE DOOR APPROVAL FOR SIZE AND
PRESSURE LIMITATIONS, GLASS TYPES, AND FASTENER
REQUIREMENTS.

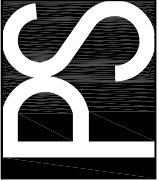
SEE SHEETS 9-10 FOR STEEL
REINFORCING REQUIREMENTS.



SEAL:
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WALTERS ENGINEERING
(CO.# 27194)
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WEST PALM BEACH, FL 33412
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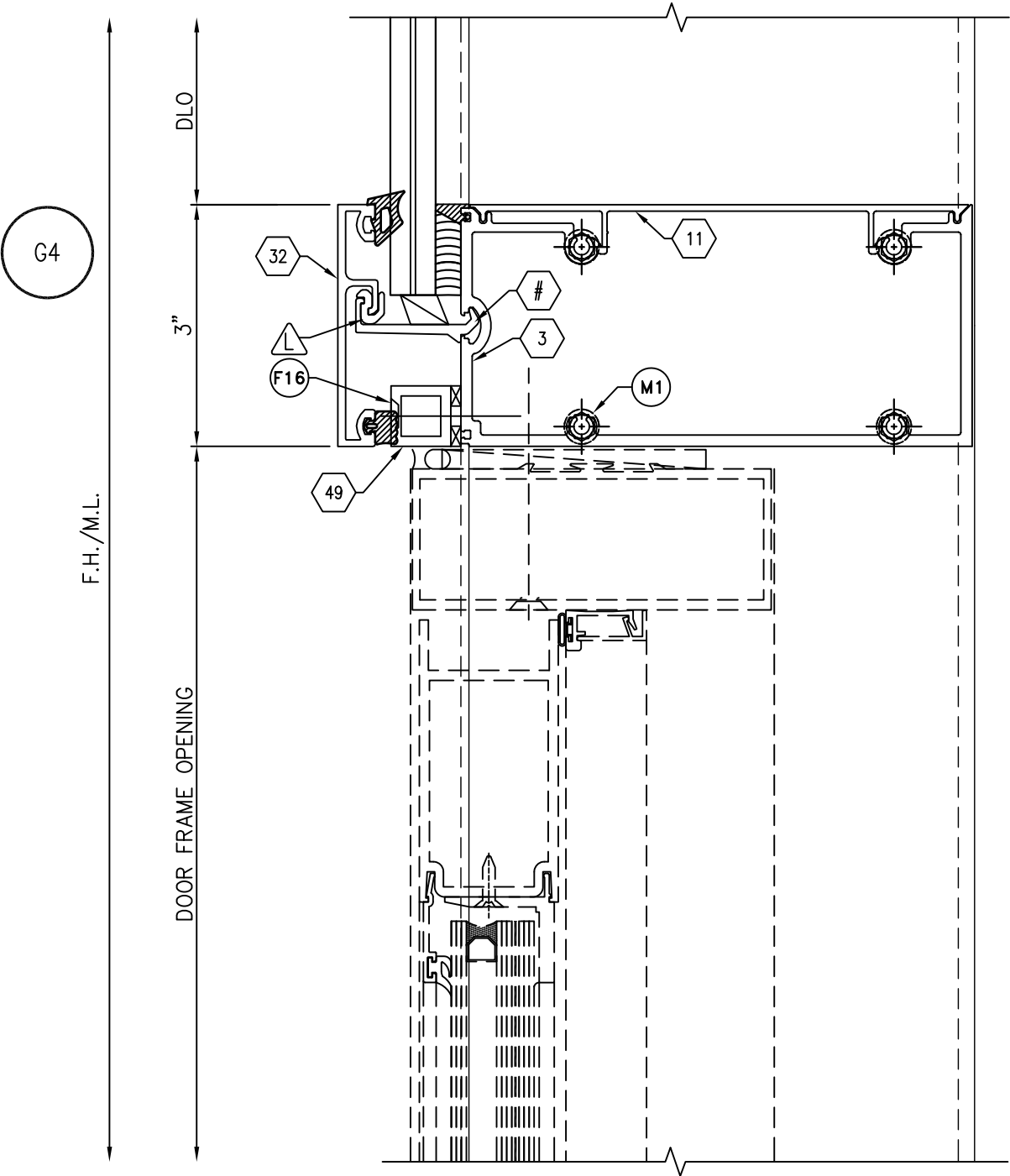
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
REV.#	DATE	DESCRIPTION	
5	10/19/21	2020 CODE UPDATE	
PRINTS ISSUED FOR			

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937



DWG: RT3-IR
SHEET: 35/54

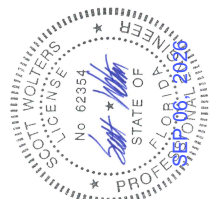
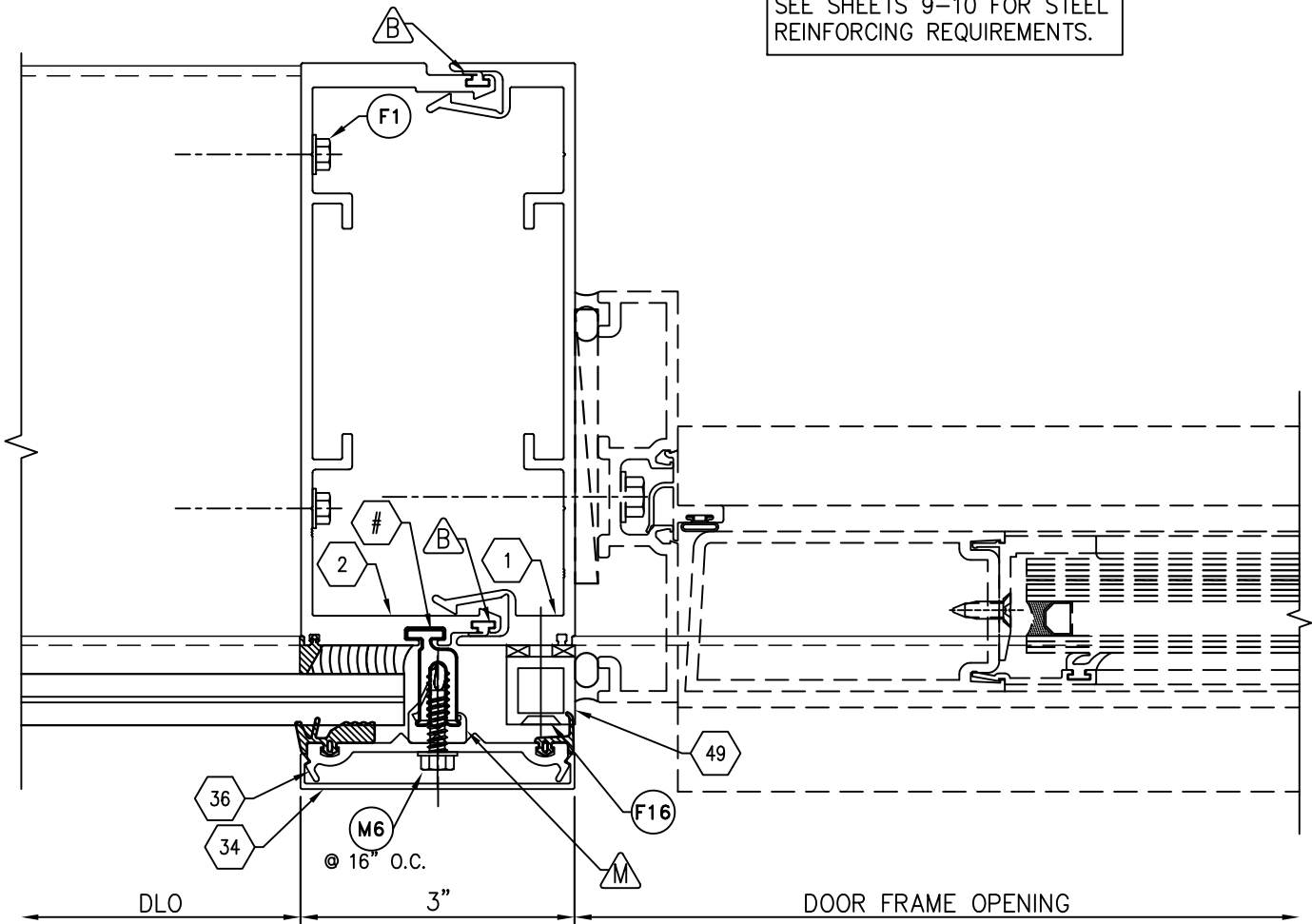
DOOR DETAILS:



CAPTURED SYSTEM WITH MONOLITHIC GLASS SHOWN. INSULATED GLASS IS SIMILAR.

THE DOOR DETAILS SHOWN ARE FOR REFERENCE ONLY. ANY FBC APPROVED DOOR MAY BE USED WITH THIS SYSTEM. PLEASE SEE DOOR APPROVAL FOR SIZE AND PRESSURE LIMITATIONS, GLASS TYPES, AND FASTENER REQUIREMENTS.

SEE SHEETS 9-10 FOR STEEL REINFORCING REQUIREMENTS.



SEAL:

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FL PE# 62354

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(CO.# 27194)
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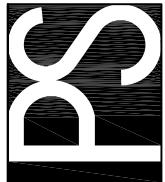
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	DATE	DESCRIPTION
11	2/25/25	
2020 CODE UPDATE	10/19/21	
PRINTS ISSUED FOR	REV.#	DATE
5		

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
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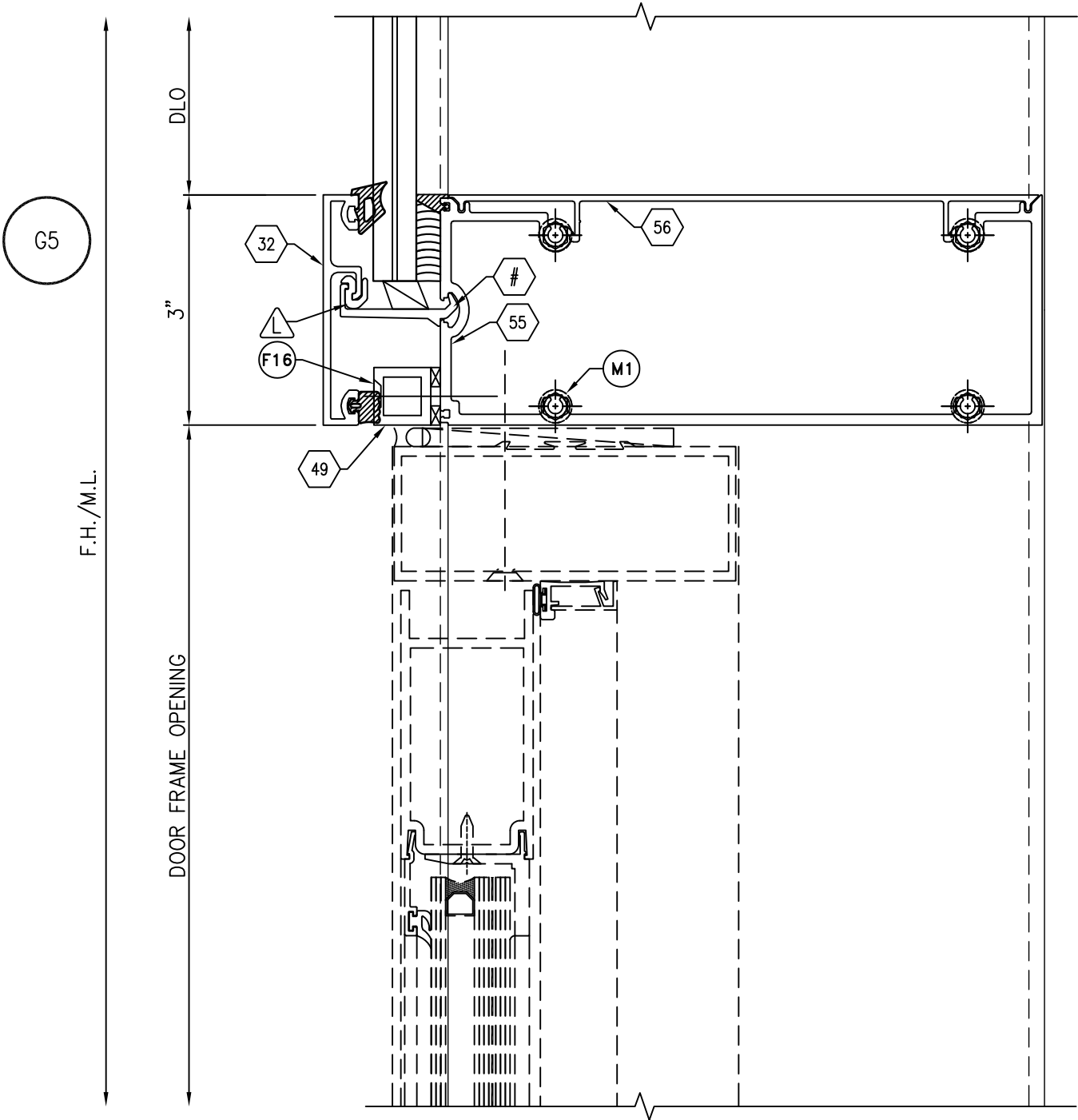
DWG:

RT3-IR

SHEET:

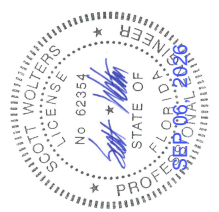
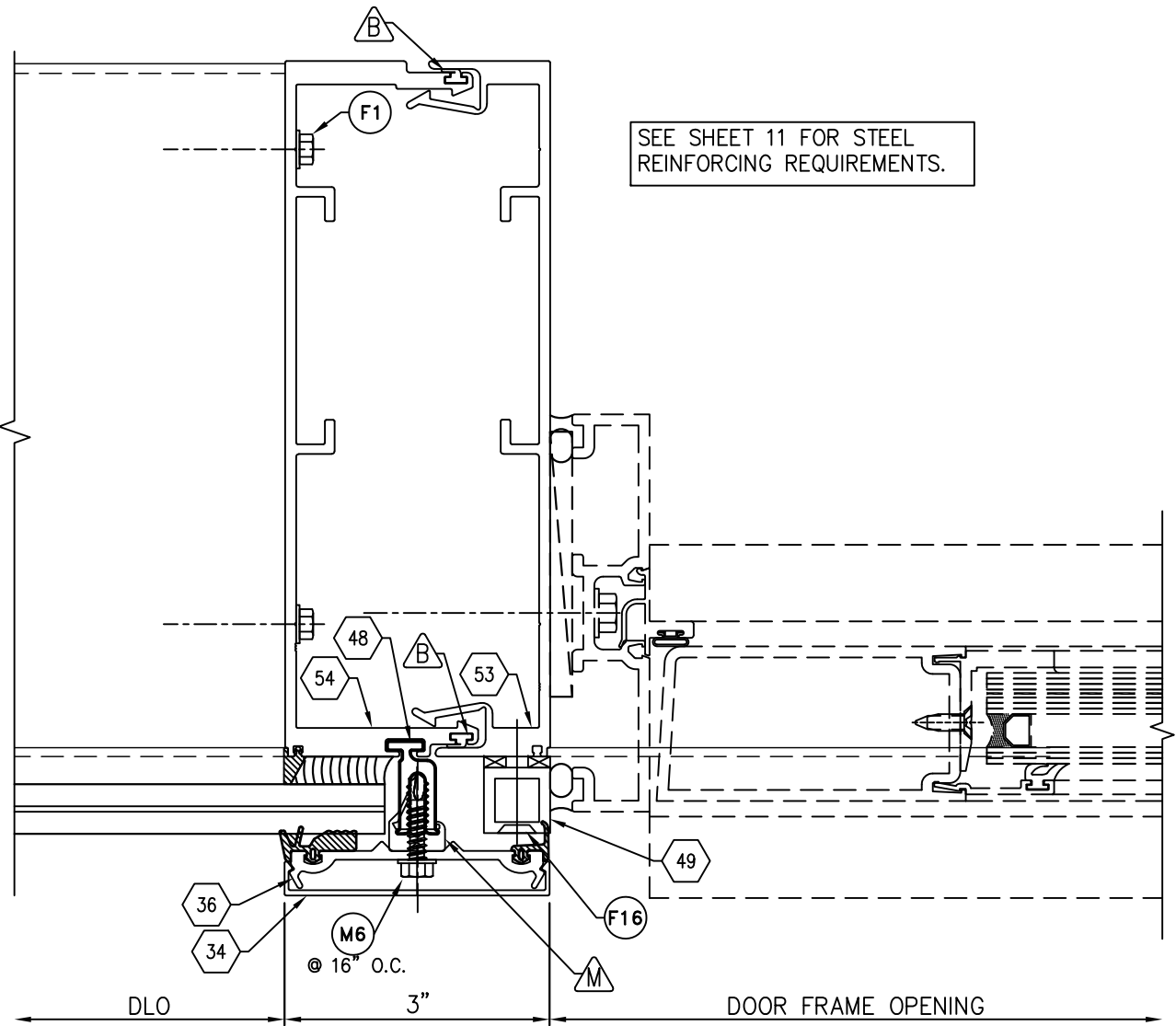
36/54

XL MULLION DOOR DETAILS:



CAPTURED SYSTEM WITH MONOLITHIC GLASS SHOWN.
SSG SYSTEM AND INSULATED GLASS IS SIMILAR.

THE DOOR DETAILS SHOWN ARE FOR REFERENCE ONLY.
ANY FBC APPROVED DOOR MAY BE USED WITH THIS
SYSTEM. PLEASE SEE DOOR APPROVAL FOR SIZE AND
PRESSURE LIMITATIONS, GLASS TYPES, AND FASTENER
REQUIREMENTS.



SEAL:
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FL PE# 62354

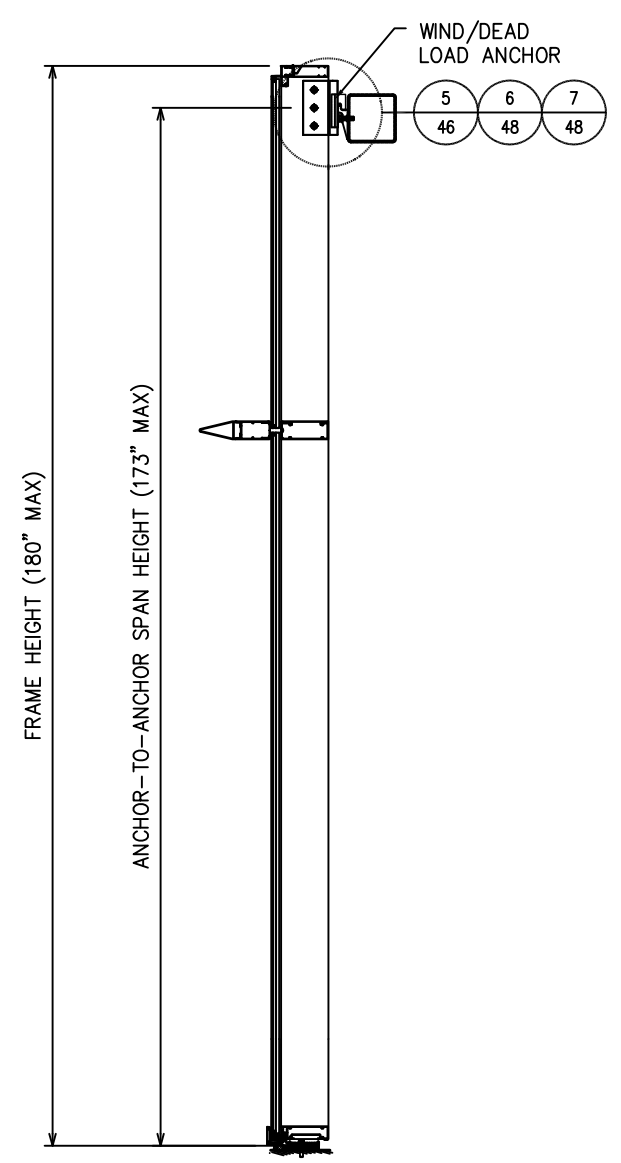
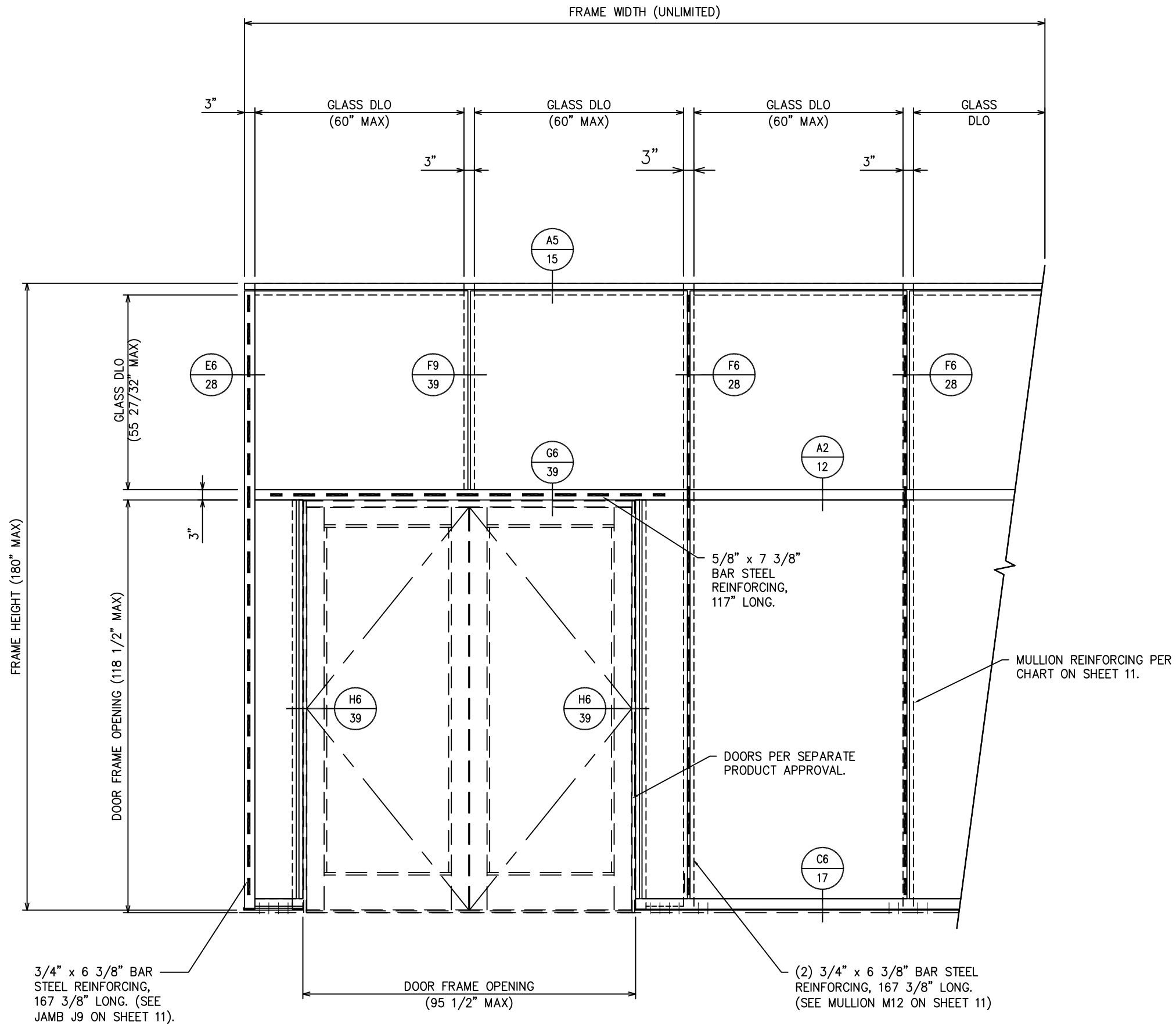
WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM				DESCRIPTION	
REVISION	11	2/25/25			
2020 CODE UPDATE	5	10/19/21			
PRINTS ISSUED FOR					

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XL MULLION DOOR ELEVATION
WITH CRIPPLED MULLIONS:



SEAL:

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FL PE# 62354

WOLTERS ENGINEERING
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RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	11	2/25/25	DATE
REVISION	10	9/3/24	DATE
2020 CODE UPDATE	5	10/19/21	DATE
PRINTS ISSUED FOR	REV.#	REV.#	DATE

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
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PHONE: (205)425-4072
FAX: (205)426-3937

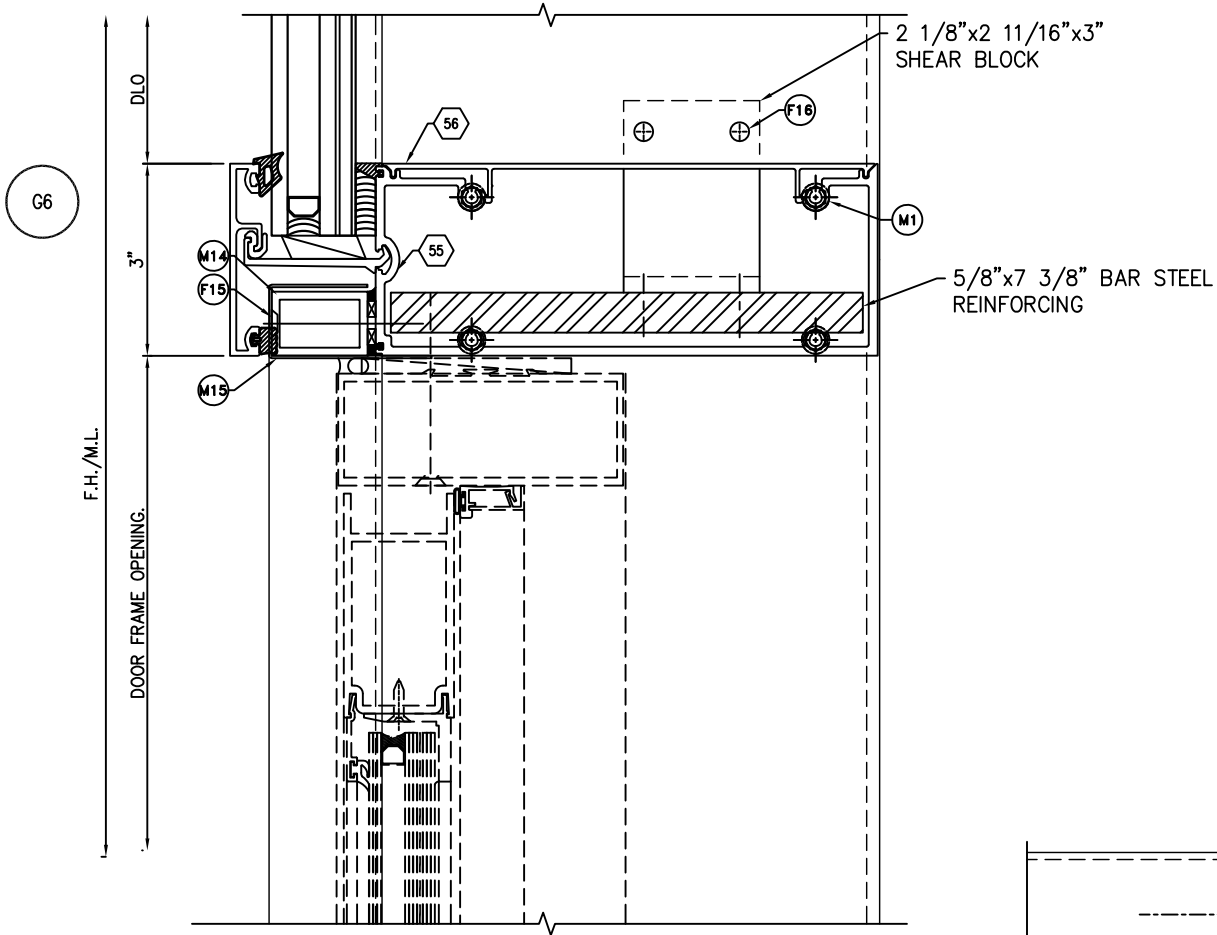
DWG:

RT3-IR

SHEET:

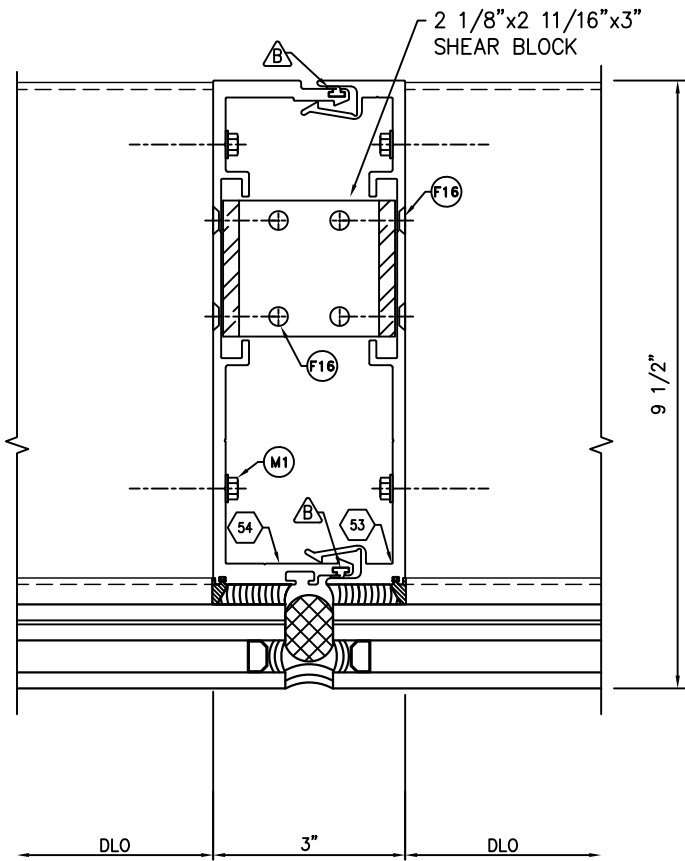
38/54

XL MULLION DOOR DETAILS
WITH CRIPPLED MULLIONS:

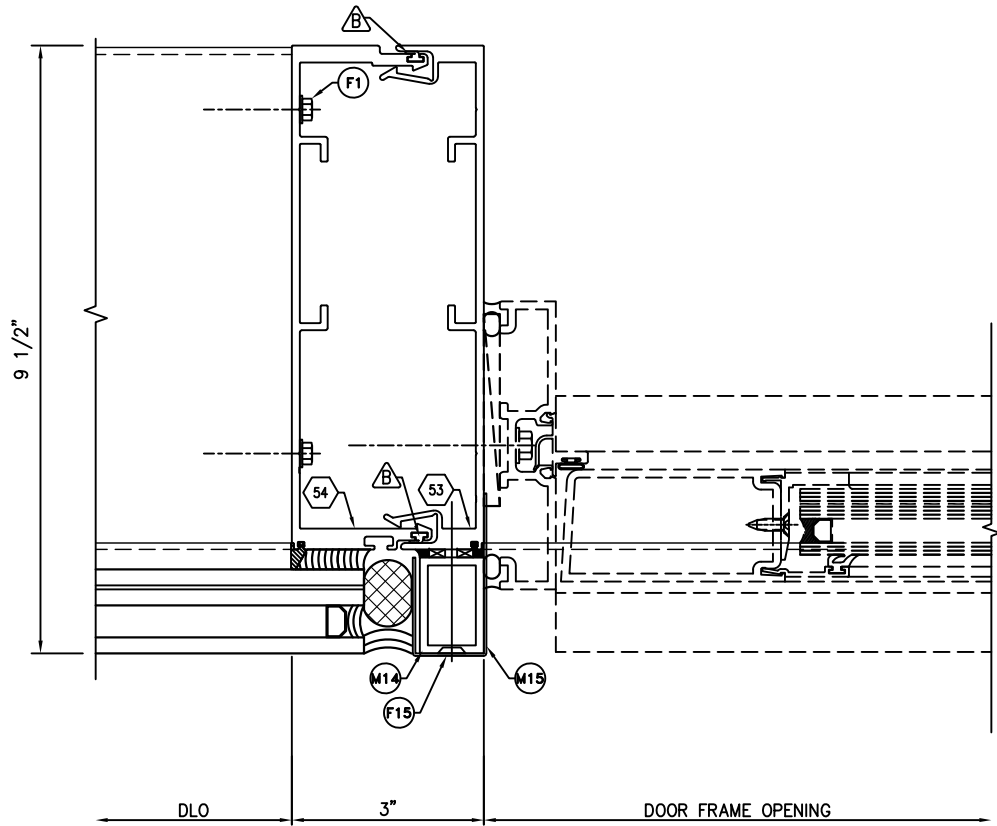


SSG SYSTEM WITH INSULATED GLASS SHOWN.
MONOLITHIC GLASS IS SIMILAR.

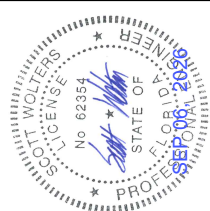
THE DOOR DETAILS SHOWN ARE FOR REFERENCE ONLY.
ANY FBC APPROVED DOOR MAY BE USED WITH THIS
SYSTEM. PLEASE SEE DOOR APPROVAL FOR SIZE AND
PRESSURE LIMITATIONS, GLASS TYPES, AND FASTENER
REQUIREMENTS.



F9



H6



SEAL:

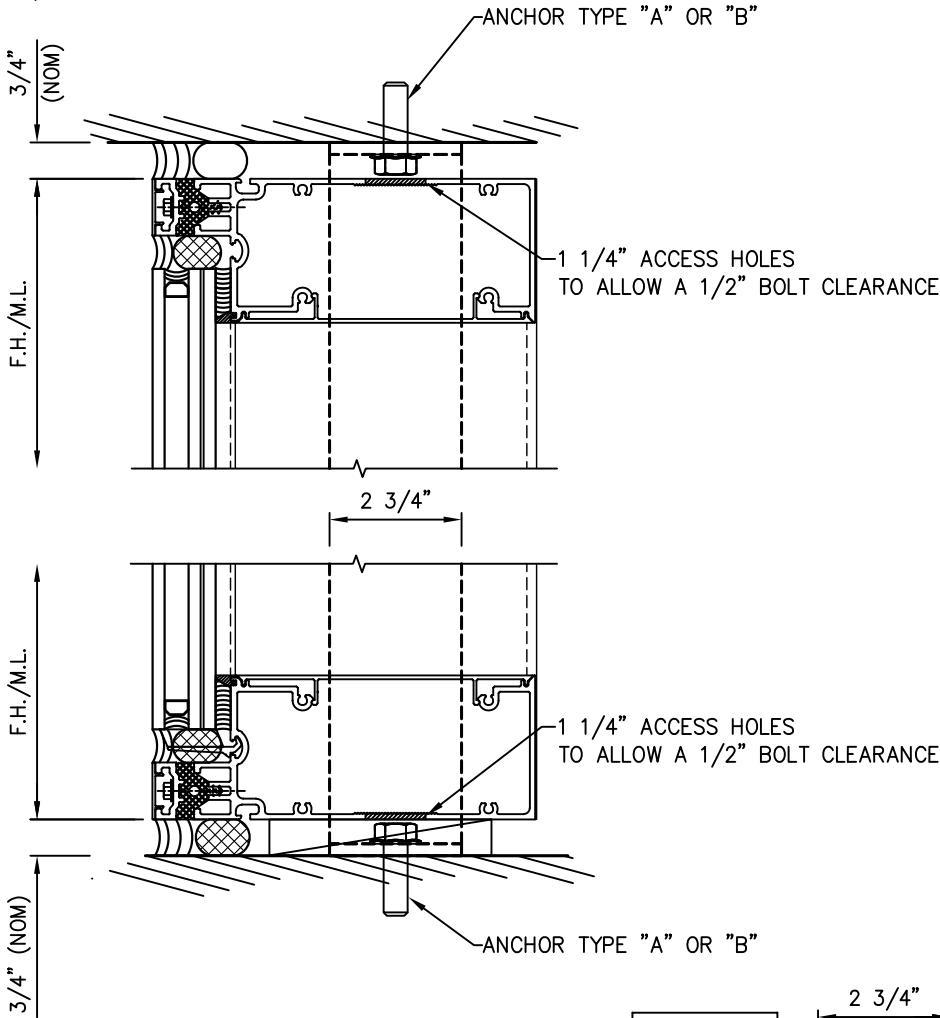
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM			
REVISION	11	2/25/25	
2020 CODE UPDATE	5	10/19/21	
PRINTS ISSUED FOR	REV.#	DATE	DESCRIPTION

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
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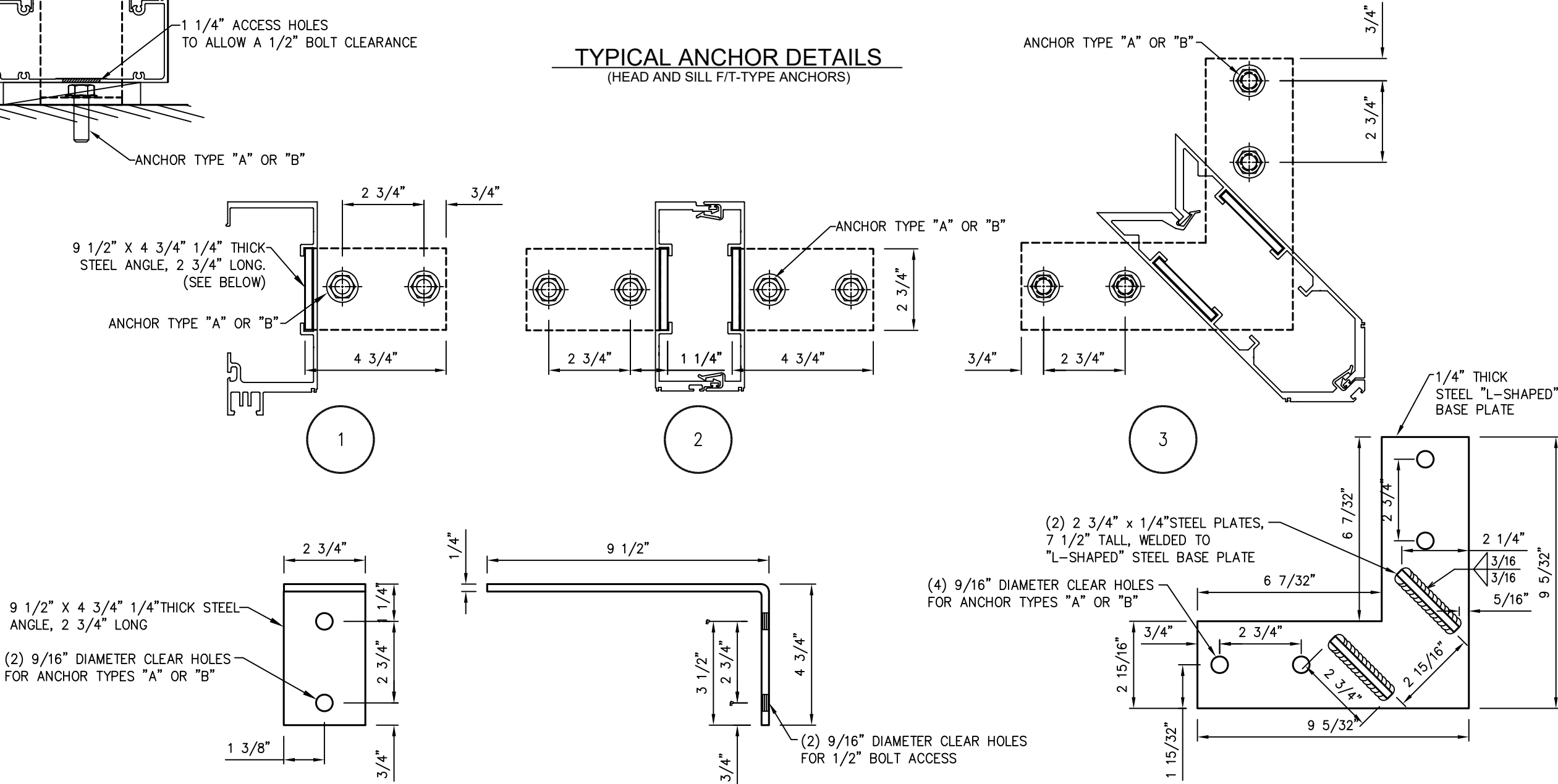
HEAD/SILL ANCHORS:



ANCHOR SCHEDULE (HEAD/SILL ANCHORS)						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)	MAXIMUM MULLION END REACTION (lb)	MAXIMUM JAMB END REACTION (lb)
A	1/2" DIA. DEWALT TAP-FLEX FASTENER (or) 1/2" DIA HH BOLT (SAE Gr. 5 min) (2) PER JAMB, (4) PER MULLION	STEEL (1/8" min, 36 ksi min)	FULL**	1 1/2"	4000	2000
		STEEL (1/4" min, 36 ksi min)	FULL**	1 1/2"	5046	2875
B	1/2" DIA. DEWALT SCREWBOLT+ (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min)	3"	4"	4000	2000

** FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

TYPICAL ANCHOR DETAILS
(HEAD AND SILL F/T-TYPE ANCHORS)



SEAL:

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FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
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WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	DATE	DESCRIPTION
10	9/3/24	
5	10/19/21	

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937

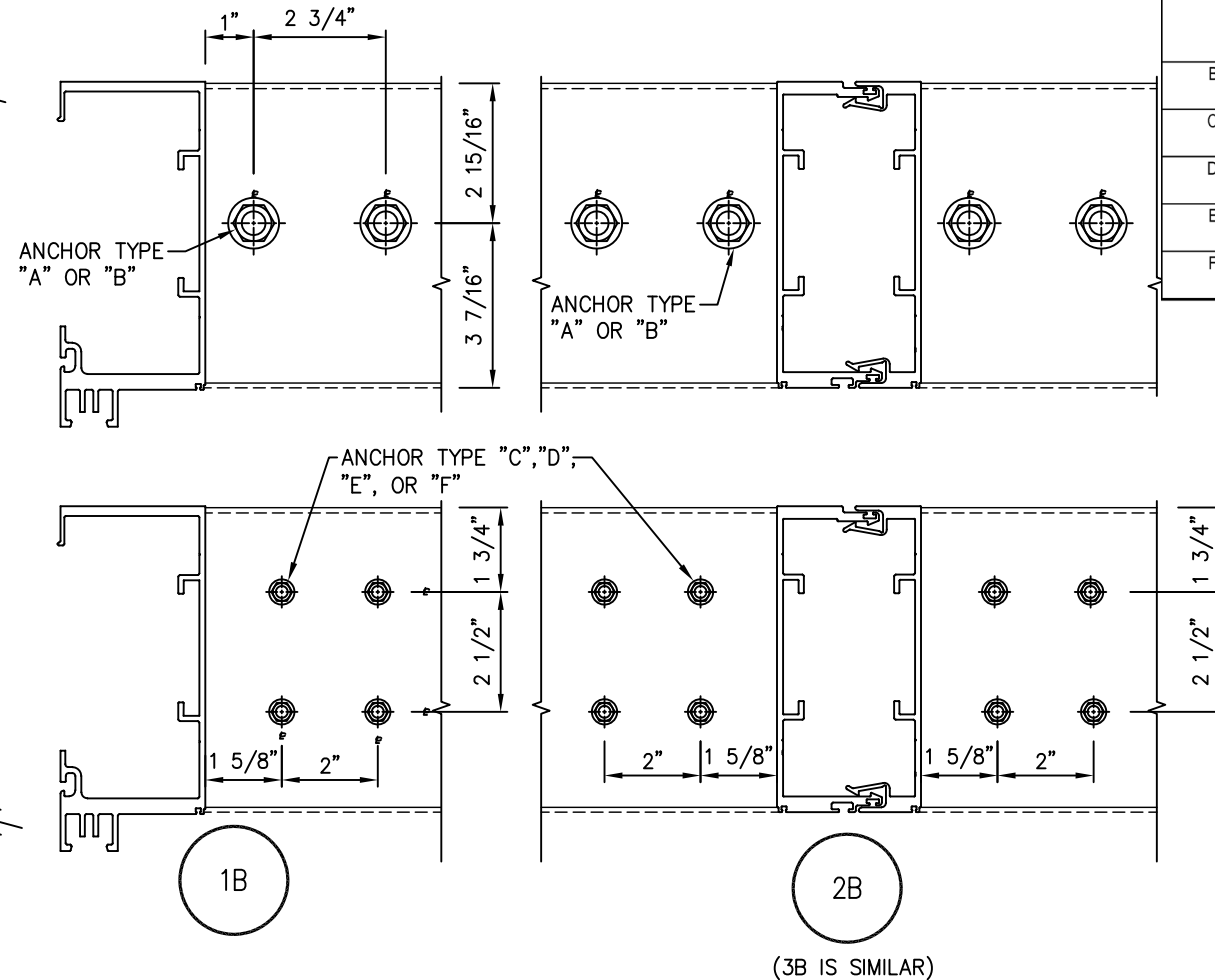
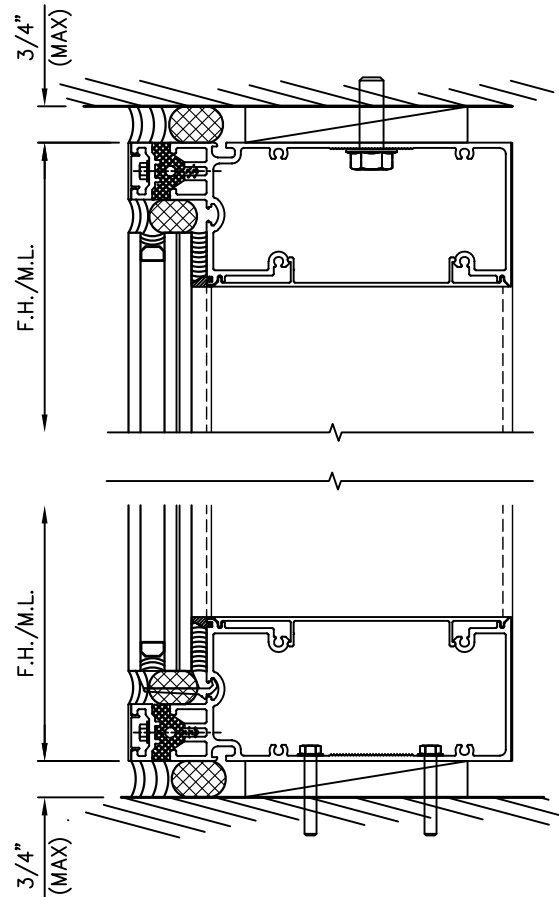
DWG: RT3-IR

SHEET: 40/54

HEAD/SILL ANCHORS:

ALTERNATE ANCHOR DETAILS

(FASTENED DIRECTLY THRU HEAD/SILL FRAMING)

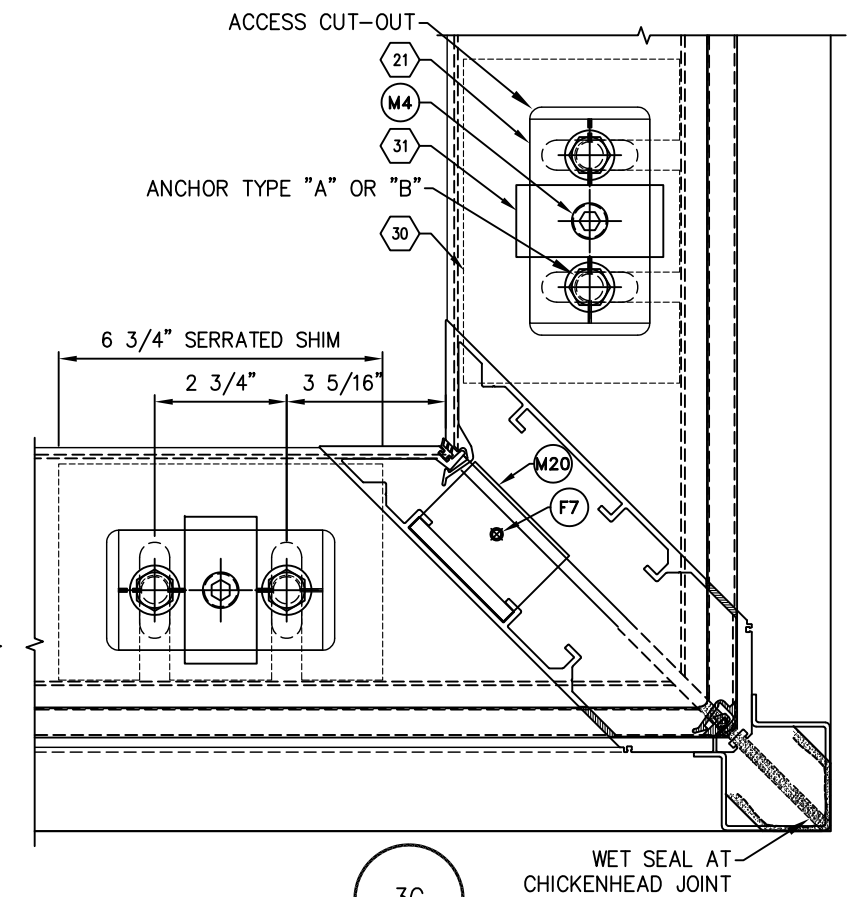
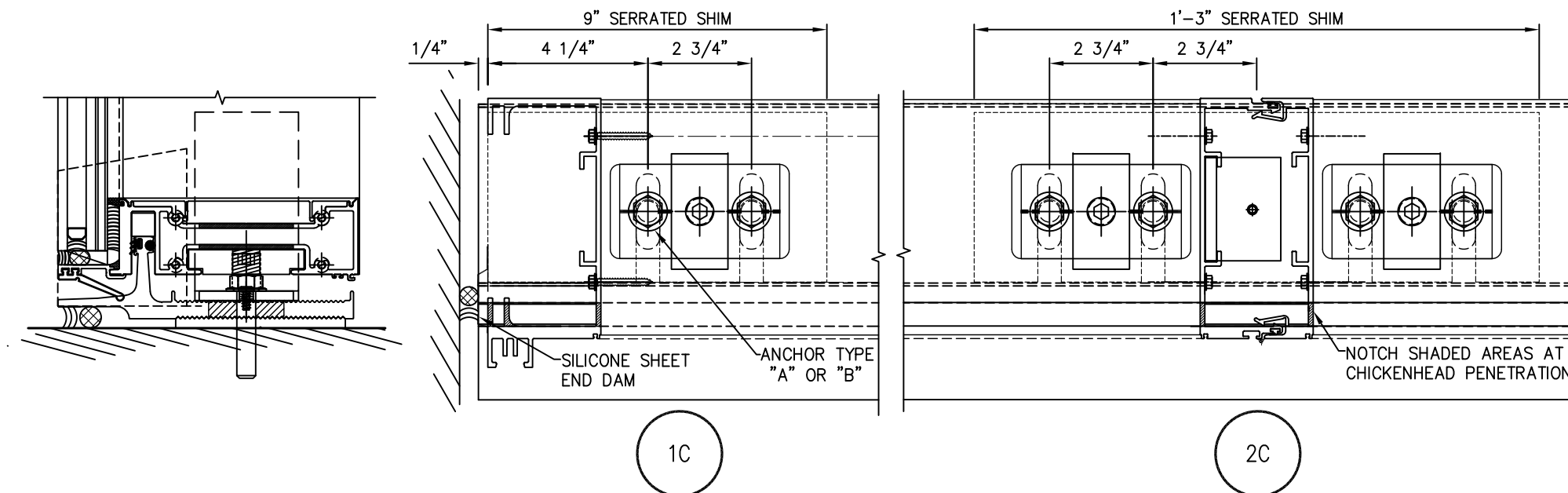


ANCHOR SCHEDULE (HEAD/SILL ANCHORS)						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)	MAXIMUM MULLION END REACTION (lb)	MAXIMUM JAMB END REACTION (lb)
A	1/2" DIA. DEWALT TAP-FLEX FASTENER (or) 1/2" DIA HH BOLT (SAE Gr. 5 min) (2) PER JAMB, (4) PER MULLION	STEEL (1/8" min, 36 ksi min)	FULL**	1 1/2"	4000	2000
		STEEL (1/4" min, 36 ksi min)	FULL**	1 1/2"	5046	2875
B	1/2" DIA. DEWALT SCREWBOLT+ (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min)	3"	4"	4000	2000
C	5/16" DIA. DEWALT DRIL-FLEX, (4) PER JAMB, (8) PER MULLION	STEEL (1/8" min, 36 ksi)	FULL	13/16"	SEE BELOW	SEE BELOW
D	5/16" DIA. ULTRACON (4) PER JAMB, (8) PER MULLION	CONCRETE (3500 psi min)	1 3/4"	2 1/2"	SEE BELOW	SEE BELOW
E	1/4" DIA. DEWALT DRIL-FLEX, (4) PER JAMB, (8) PER MULLION	STEEL (1/8" min, 36 ksi)	FULL	5/8"	SEE BELOW	SEE BELOW
F	1/4" DIA. ULTRACON (4) PER JAMB, (8) PER MULLION	CONCRETE (3050 psi min)	1 3/4"	2 1/2"	SEE BELOW	SEE BELOW

** FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

ALLOWABLE MULLION END REACTIONS FOR ANCHOR TYPES C-F			
FASTENER TYPE	SHIM GAP WIDTH (in)	MAXIMUM MULLION END REACTION (lb)	MAXIMUM JAMB END REACTION (lb)
C	3/8"	2875	1521
	1/2"	2875	1521
	3/4"	2408	1204
D	3/8"	2875	1521
	1/2"	2592	1296
	3/4"	1840	920
E	3/8"	2200	1100
	1/2"	1760	880
	3/4"	1248	624
F	3/8"	1584	792
	1/2"	1248	624
	3/4"	880	440

ALTERNATE ANCHOR DETAILS (SILL ANCHORS AT STARTER SILL CHICKEN-HEAD)



R13 IMPACT RESISTANT CURTAINWALL SYSTEM

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)

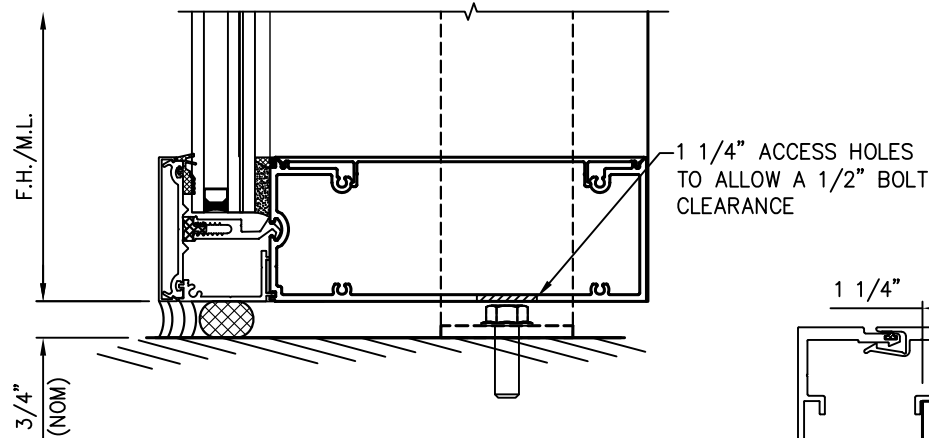
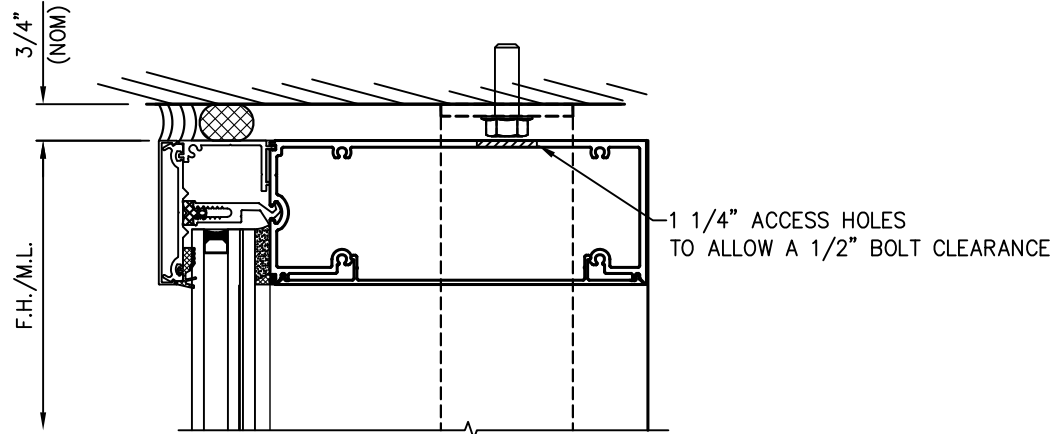
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH FL 33412

PALM BEACH, FL 33412
(561) 225-1982

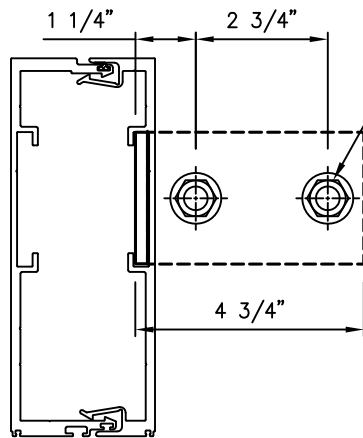
DESCRIPTION

DWG:	RT3-IR
SHEET:	41/54

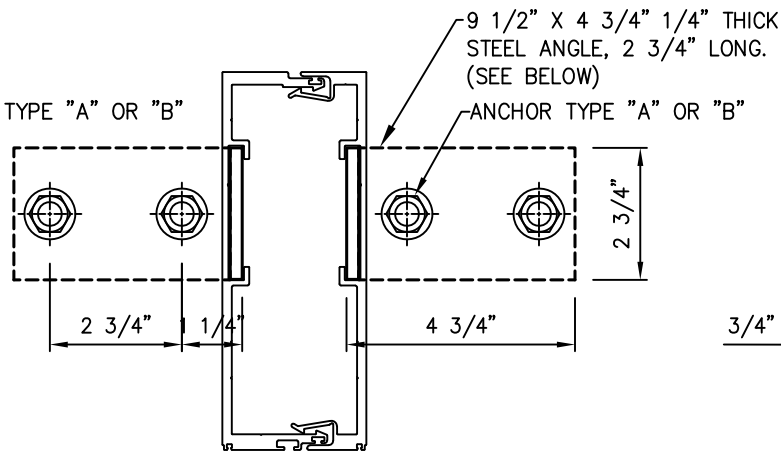
XL HEAD/SILL ANCHORS:



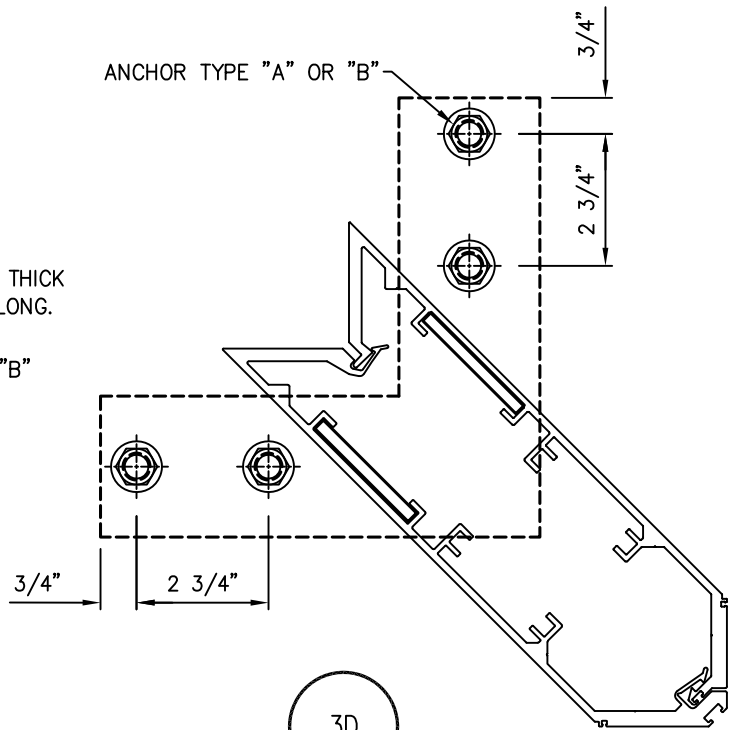
TYPICAL ANCHOR DETAILS
(HEAD AND SILL F/T-TYPE ANCHORS)



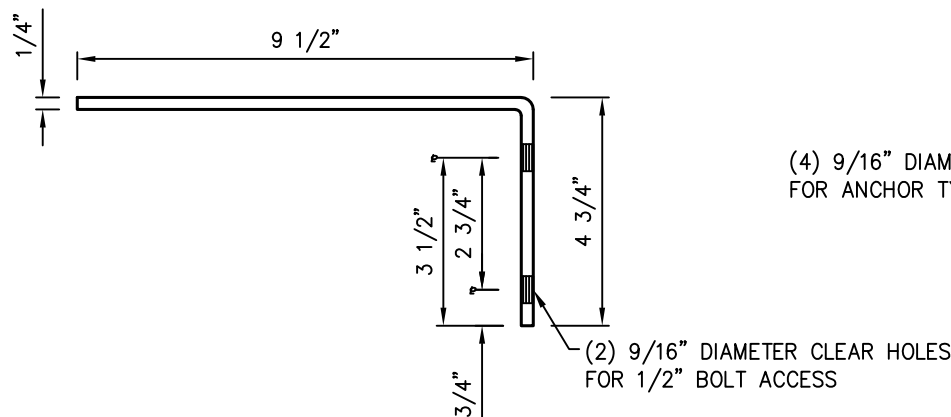
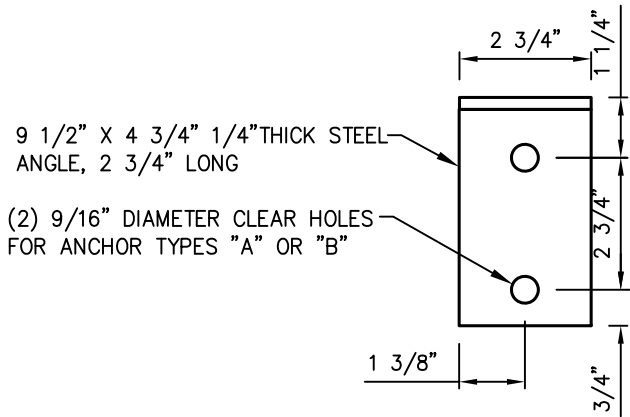
1D



2D

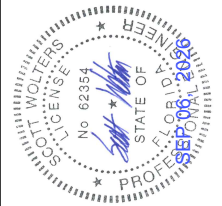
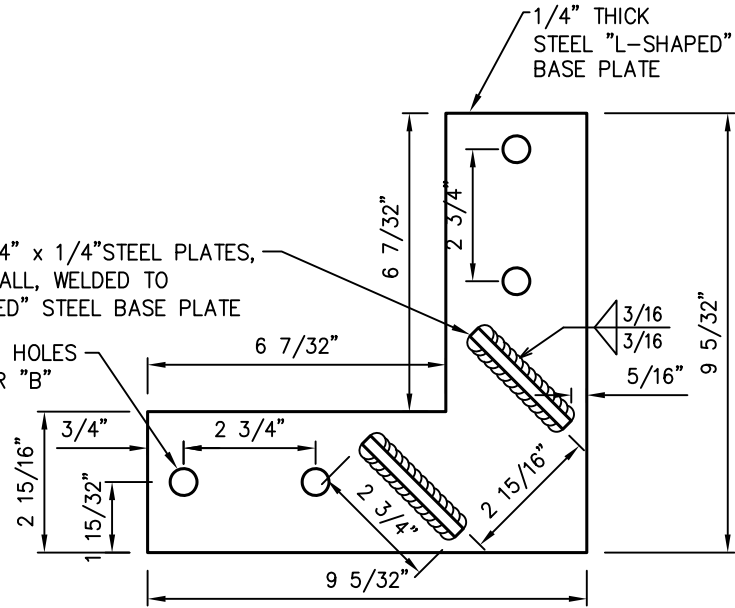


3D



(2) 2 3/4" x 1/4" STEEL PLATES, 7 1/2" TALL, WELDED TO "L-SHAPED" STEEL BASE PLATE

(4) 9/16" DIAMETER CLEAR HOLES FOR ANCHOR TYPES "A" OR "B"



SEAL:
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
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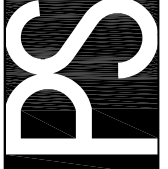
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	DATE	DESCRIPTION
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5	10/19/21	
2020 CODE UPDATE		
PRINTS ISSUED FOR	REV.#	DATE

PHYSICAL SECURITY, LLC

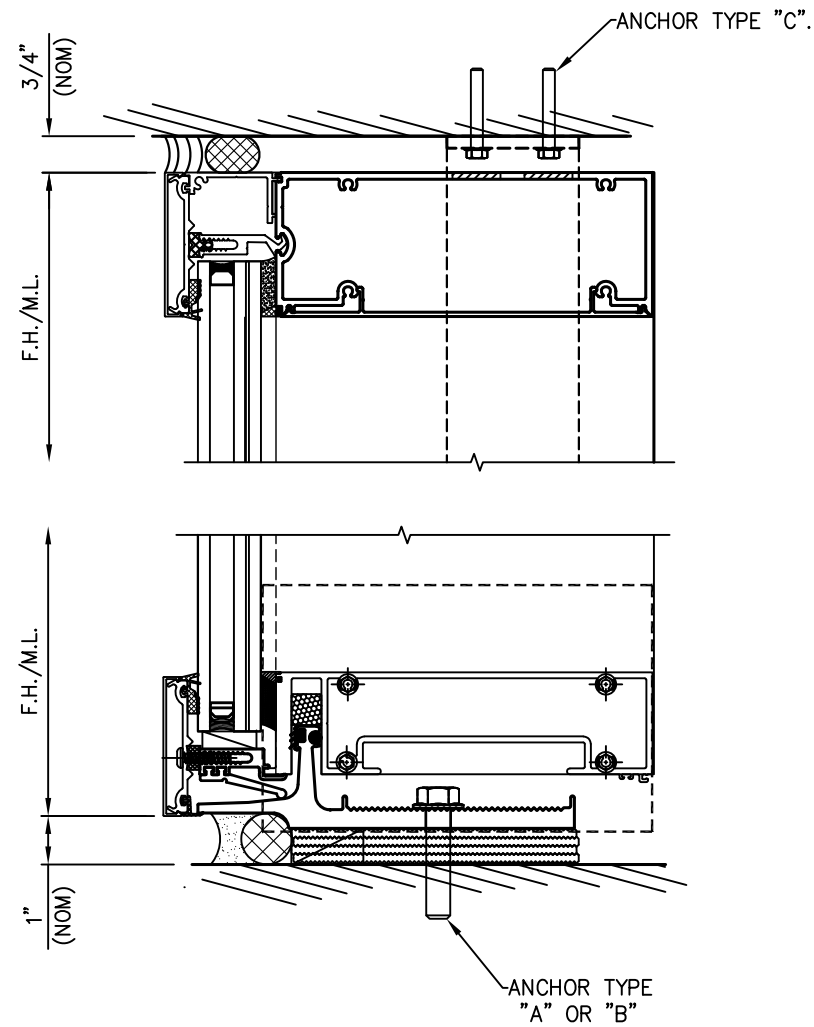
600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205) 425-4072
FAX: (205) 426-3937



DWG: RT3-IR
SHEET: 42/54

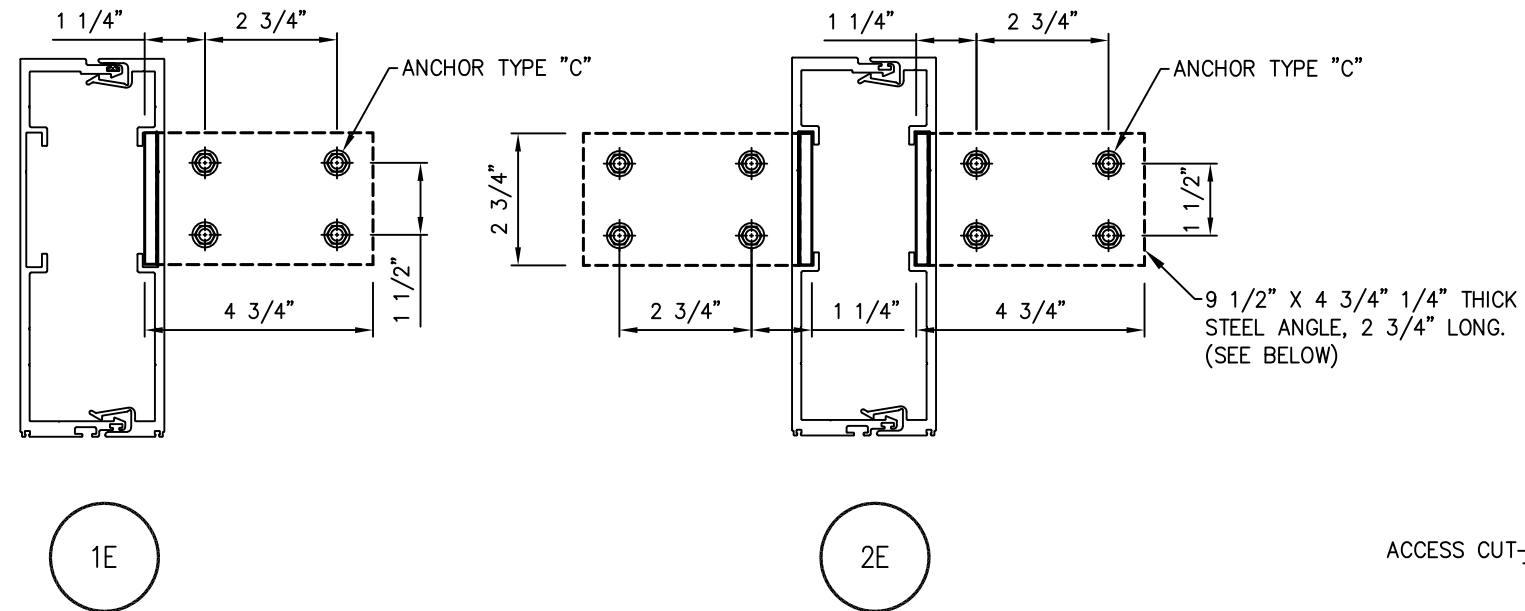
XL HEAD/SILL ANCHORS:



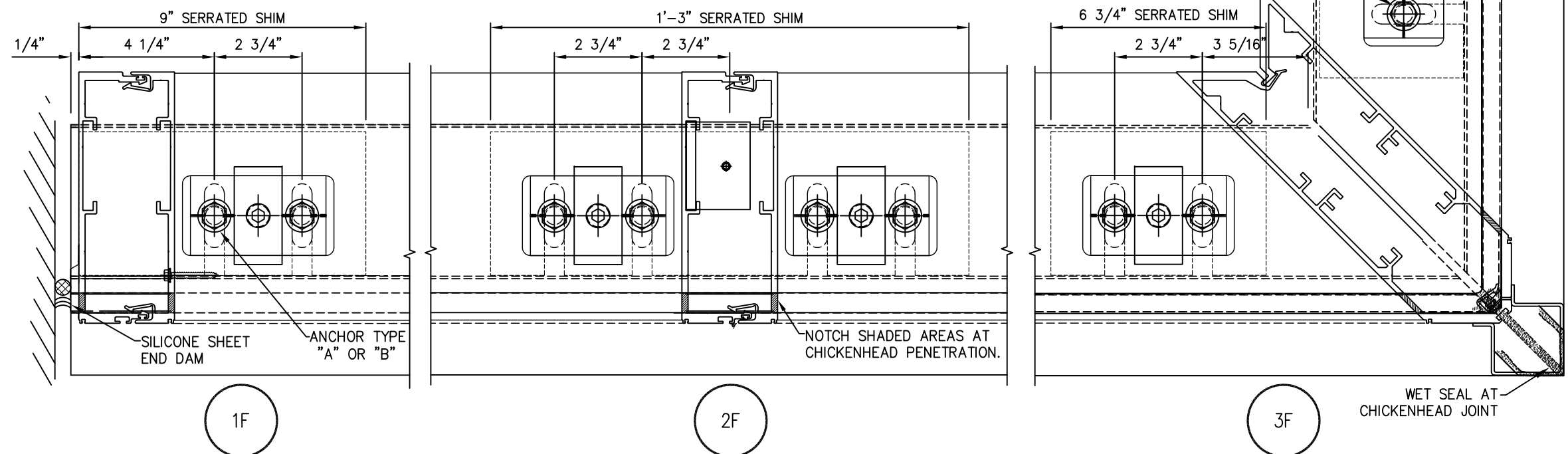
PLEASE NOTE - THE XL FRAMES MAY ALSO BE ANCHORED DIRECTLY THRU THE HEAD/SILL, USING THE SAME FASTENERS AND MAX LOADS SHOWN ON SHEET 41.

ANCHOR SCHEDULE (HEAD/SILL ANCHORS)						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)	MAXIMUM MULLION END REACTION (lb)	MAXIMUM JAMB END REACTION (lb)
A	1/2" DIA. DEWALT TAP-FLEX FASTENER (or) 1/2" DIA HH BOLT (SAE Gr. 5 min) (2) PER JAMB, (4) PER MULLION	STEEL (1/8" min, 36 ksi min)	FULL**	1 1/2"	4000	2000
		STEEL (1/4" min, 36 ksi min)	FULL**	1 1/2"	5020	2700
B	1/2" DIA. DEWALT SCREWBOLT+ (2) PER JAMB, (4) PER MULLION	CONCRETE (4000 psi min)	3"	4"	4000	2000
C	5/16" DIA. DEWALT DRIL-FLEX, (4) PER JAMB, (8) PER MULLION	STEEL (1/8" min, 36 ksi min)	FULL**	13/16"	3600	1800
		STEEL (1/4" min, 36 ksi min)	FULL**	13/16"	5020	2700

** FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.



ALTERNATE ANCHOR DETAILS (SILL ANCHORS AT STARTER SILL CHICKEN-HEAD)

i
i
i

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
(561) 225-1982

R13 IMPACT RESISTANT CURTAINWALL SYSTEM

—	—	—	—	—
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—
REVISION	10	9/3/24		
2020 CODE UPDATE	5	10/19/21		
PRINTS ISSUED FOR	REV.#	DATE	DESCRIPTION	

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



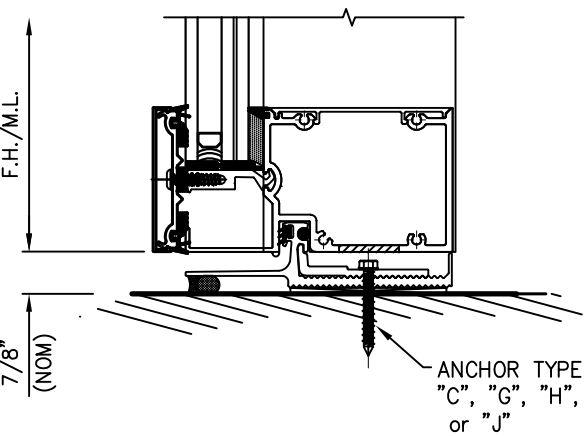
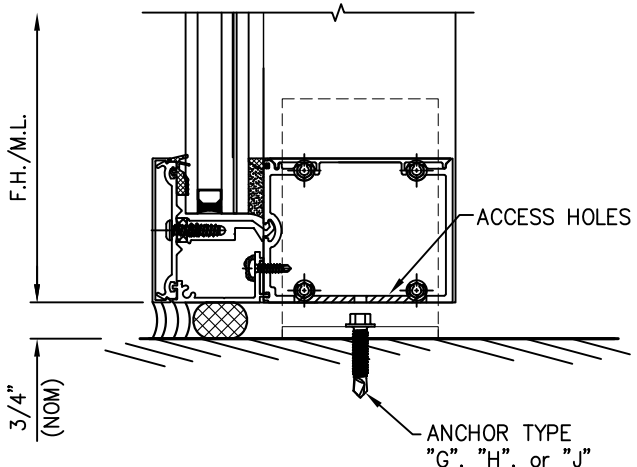
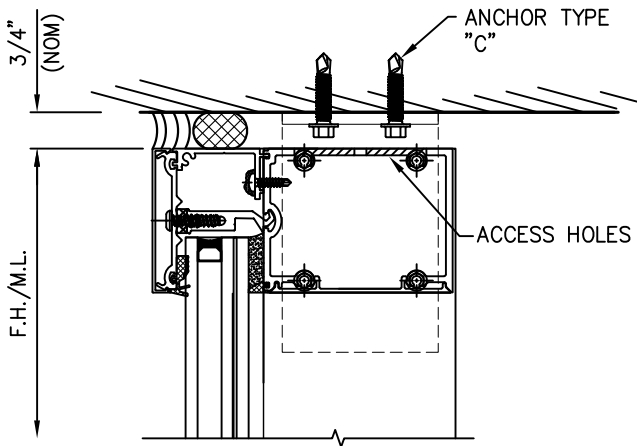
WG:

RT3-IR

HEET:

43/54

SHALLOW HEAD/SILL ANCHORS:

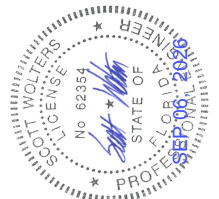
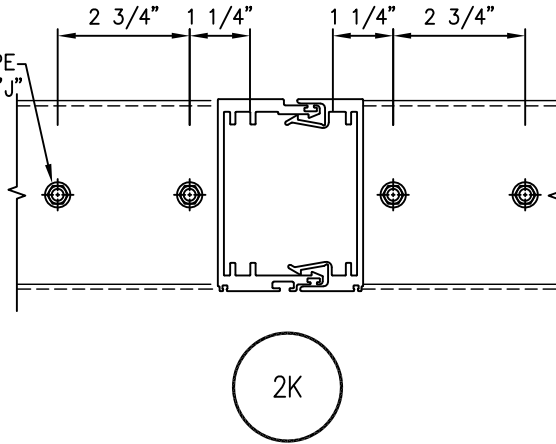
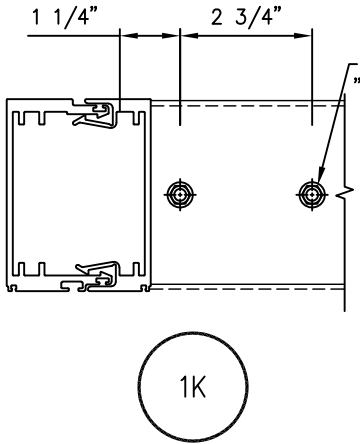
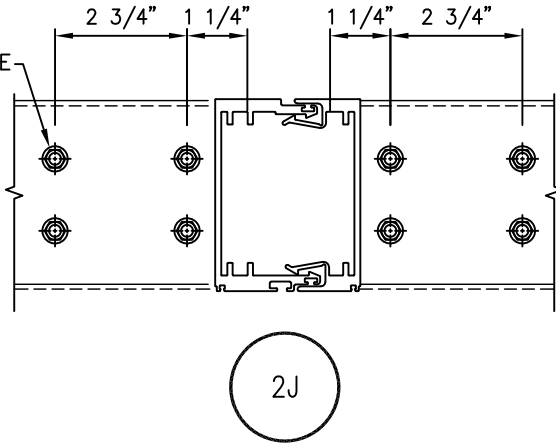
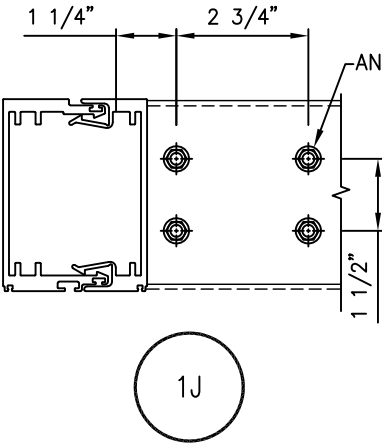
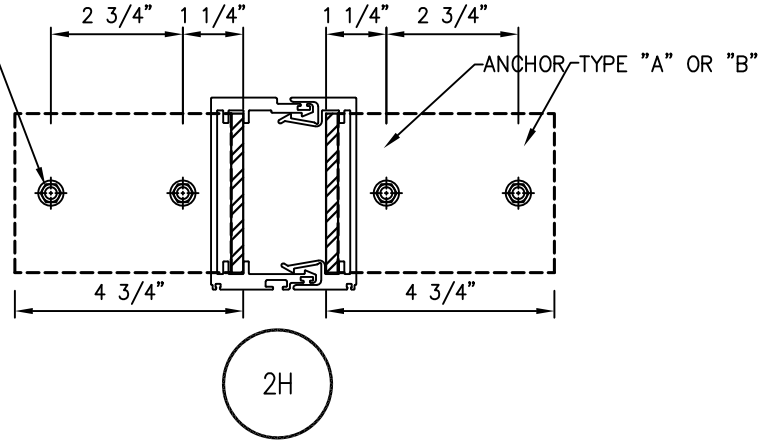
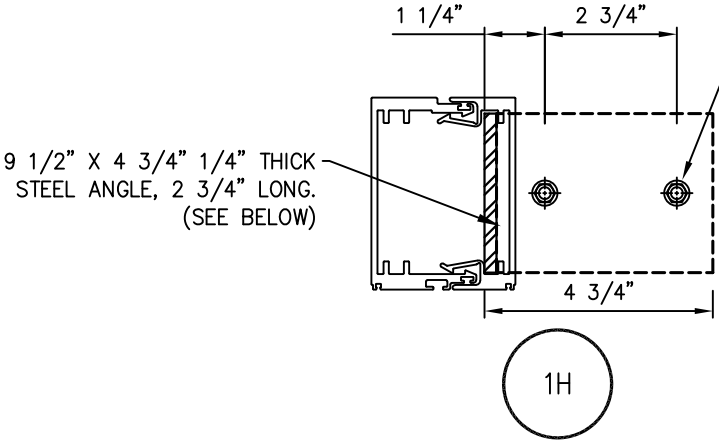
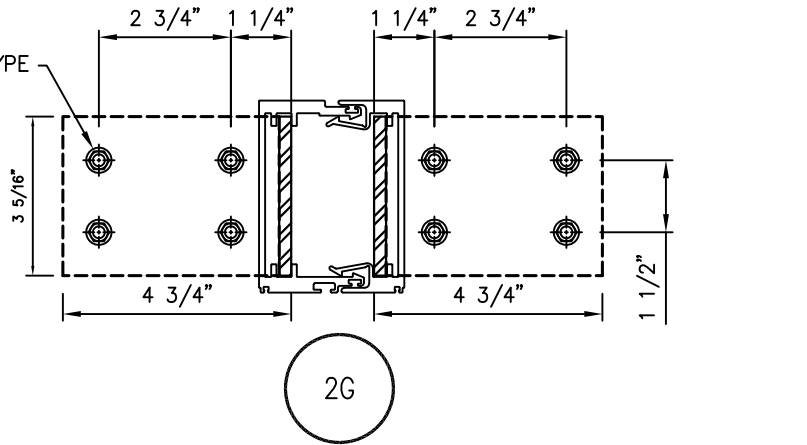
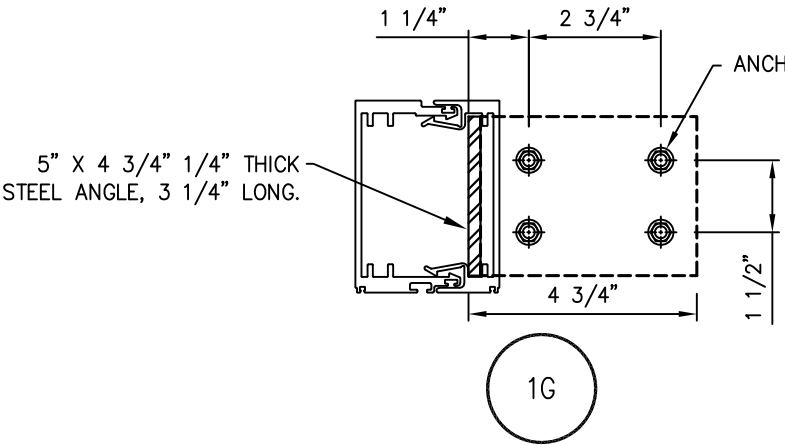


PLEASE NOTE – THE SHALLOW FRAMES MAY ALSO BE ANCHORED WITH THE FASTENERS FROM SHEET 40, OR DIRECTLY THRU THE HEAD/SILL, USING THE SAME FASTENERS AND MAX LOADS SHOWN ON SHEET 41.

ANCHOR SCHEDULE (HEAD/SILL ANCHORS)						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)	MAXIMUM MULLION END REACTION (lb)	MAXIMUM JAMB END REACTION (lb)
C	5/16" DIA. DEWALT DRIL-FLEX, (4) PER JAMB, (8) PER MULLION	STEEL (1/8" min, 36 ksi)	FULL**	13/16"	2250	1181
G	5/16" DIA. DEWALT DRIL-FLEX, (2) PER JAMB, (4) PER MULLION	STEEL (1/8" min, 36 ksi)	FULL**	13/16"	2040	1020
		STEEL (1/4" min, 36 ksi min)	FULL**	13/16"	2250	1181
H	5/16" DIA. ULTRACON (2) PER JAMB, (4) PER MULLION	CONCRETE (3050 psi min)	1 3/4"	2 1/2"	1400	700
J	3/8" DIA. DEWALT SCREWBOLT+ (2) PER JAMB, (4) PER MULLION	CONCRETE (3000 psi min)	2 1/2"	3"	2250	1181

** FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

TYPICAL ANCHOR DETAILS
(HEAD AND SILL F/T-TYPE ANCHORS)



SEAL:
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

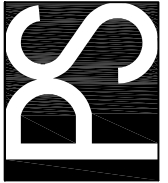
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REVISION	ISSUED FOR	REV.#	DATE	DESCRIPTION
12	5/2/25			

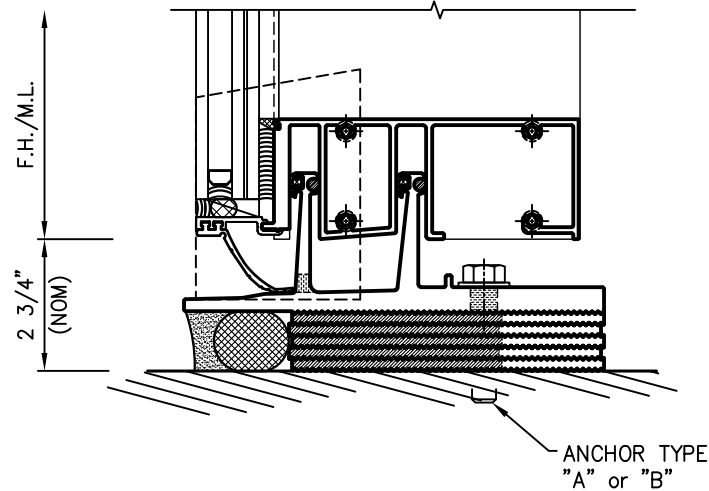
PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



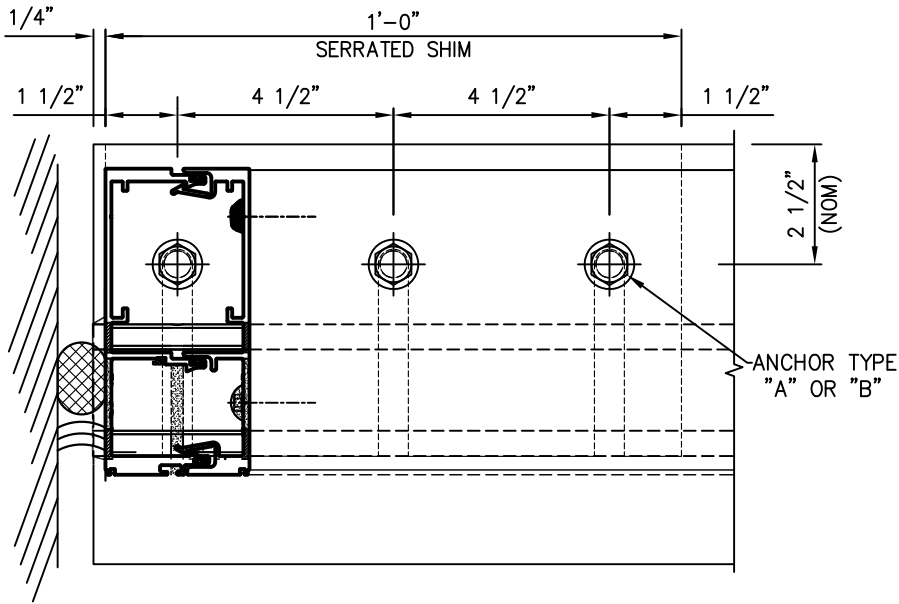
HEAD/SILL ANCHORS:



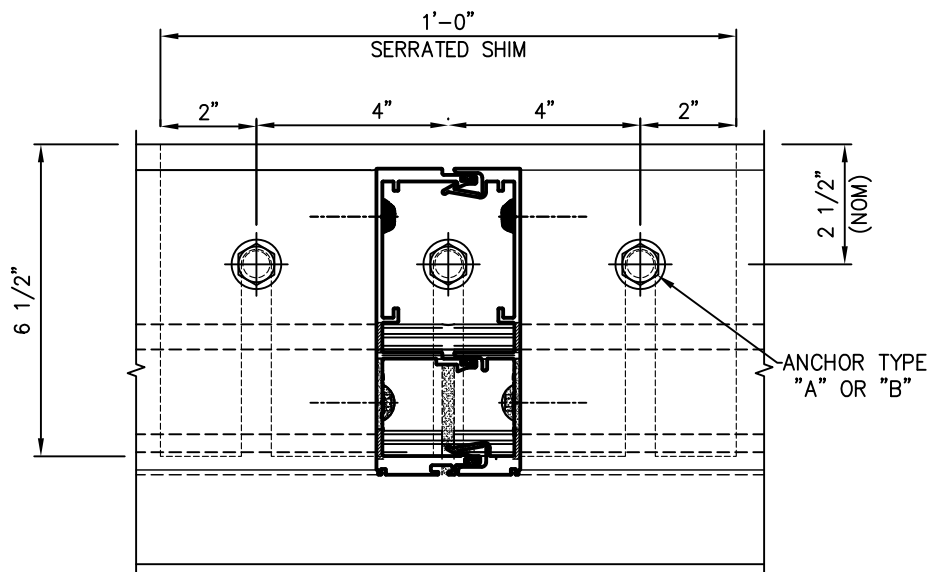
ANCHOR SCHEDULE (SILL ANCHORS)						
FASTENER TYPE	DESCRIPTION	BASE MATERIAL	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)	MAXIMUM MULLION END REACTION (lb)	MAXIMUM JAMB END REACTION (lb)
A	1/2" DIA. DEWALT TAP-FLEX FASTENER (or) 1/2" DIA HH BOLT (SAE Gr. 5 min) (3) PER JAMB, (3) PER MULLION	STEEL (1/4" min, 36 ksi min)	FULL**	1 1/2"	2450	1350
B	1/2" DIA. DEWALT SCREWBOLT+ (3) PER JAMB, (3) PER MULLION	CONCRETE (4000 psi min)	3"	4"	2450	1350

** FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

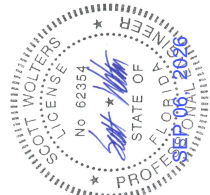
ALTERNATE ANCHOR DETAILS
(SILL ANCHORS AT STARTER SILL DOUBLE CHICKEN-HEAD)



1L



2L



SEAL:

SCOTT WALTERS
FL PE# 62354

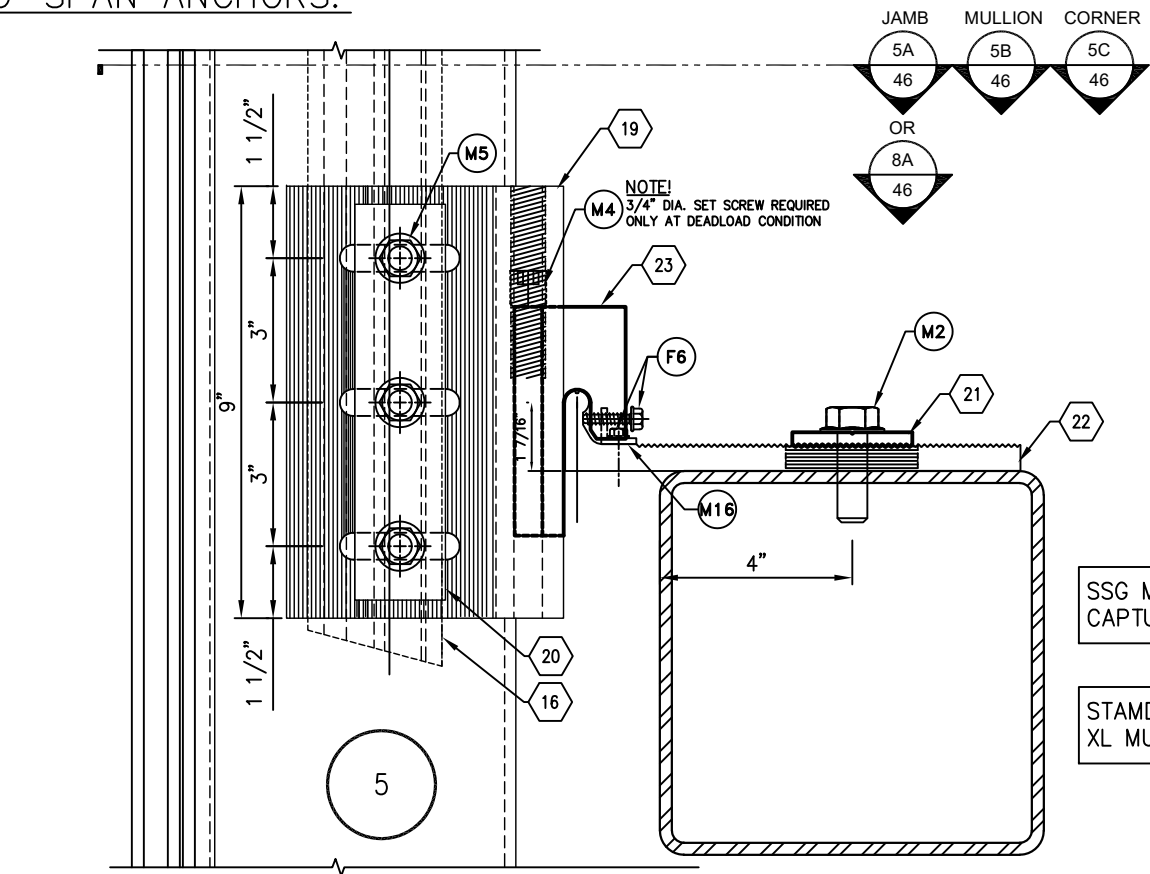
WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

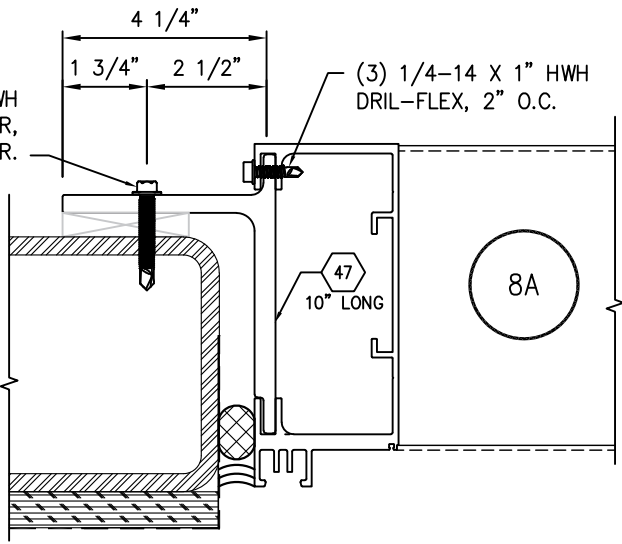
REVISION - NEW SHEET	14	10/31/25			
PRINTS ISSUED FOR	REV.#	DATE			DESCRIPTION

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937

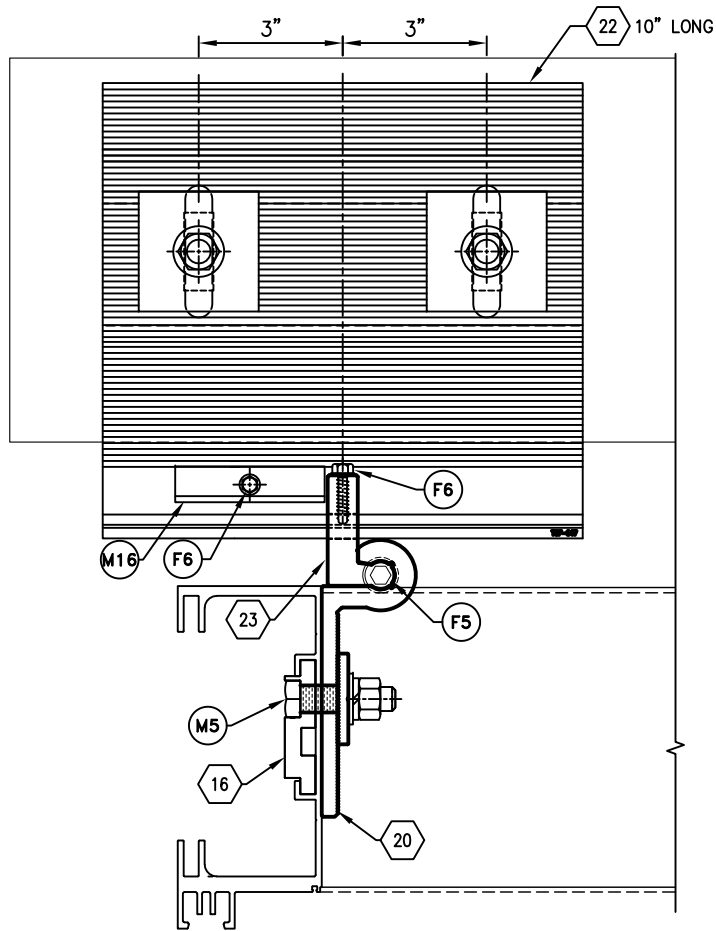
MID-SPAN ANCHORS:



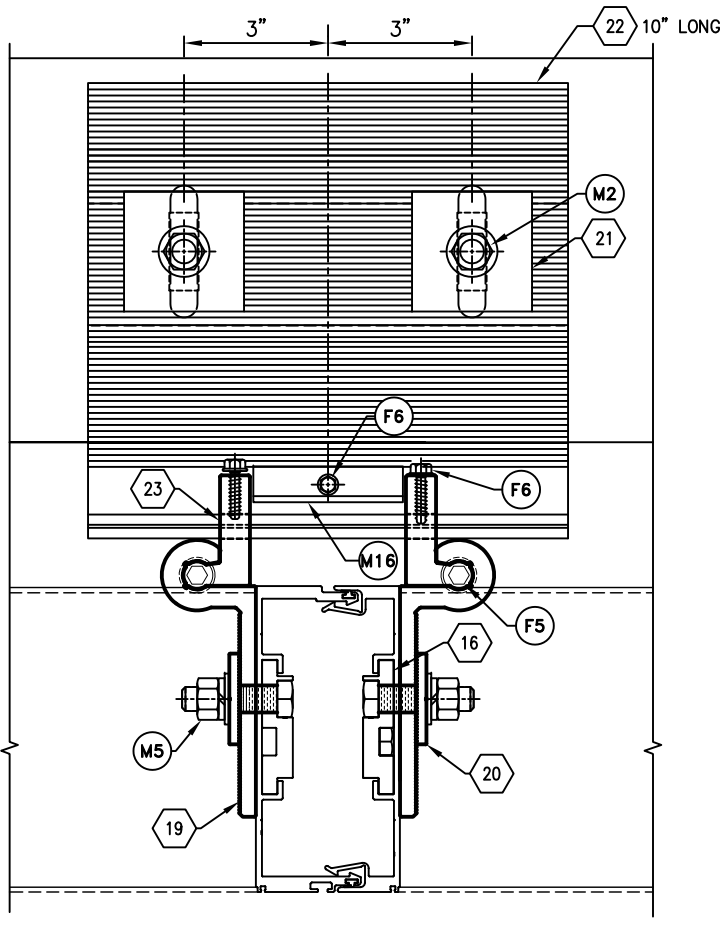
5/16" ϕ -24 X 2" HWH
DRIL-FLEX FASTENER,
(5) PER ANCHOR.



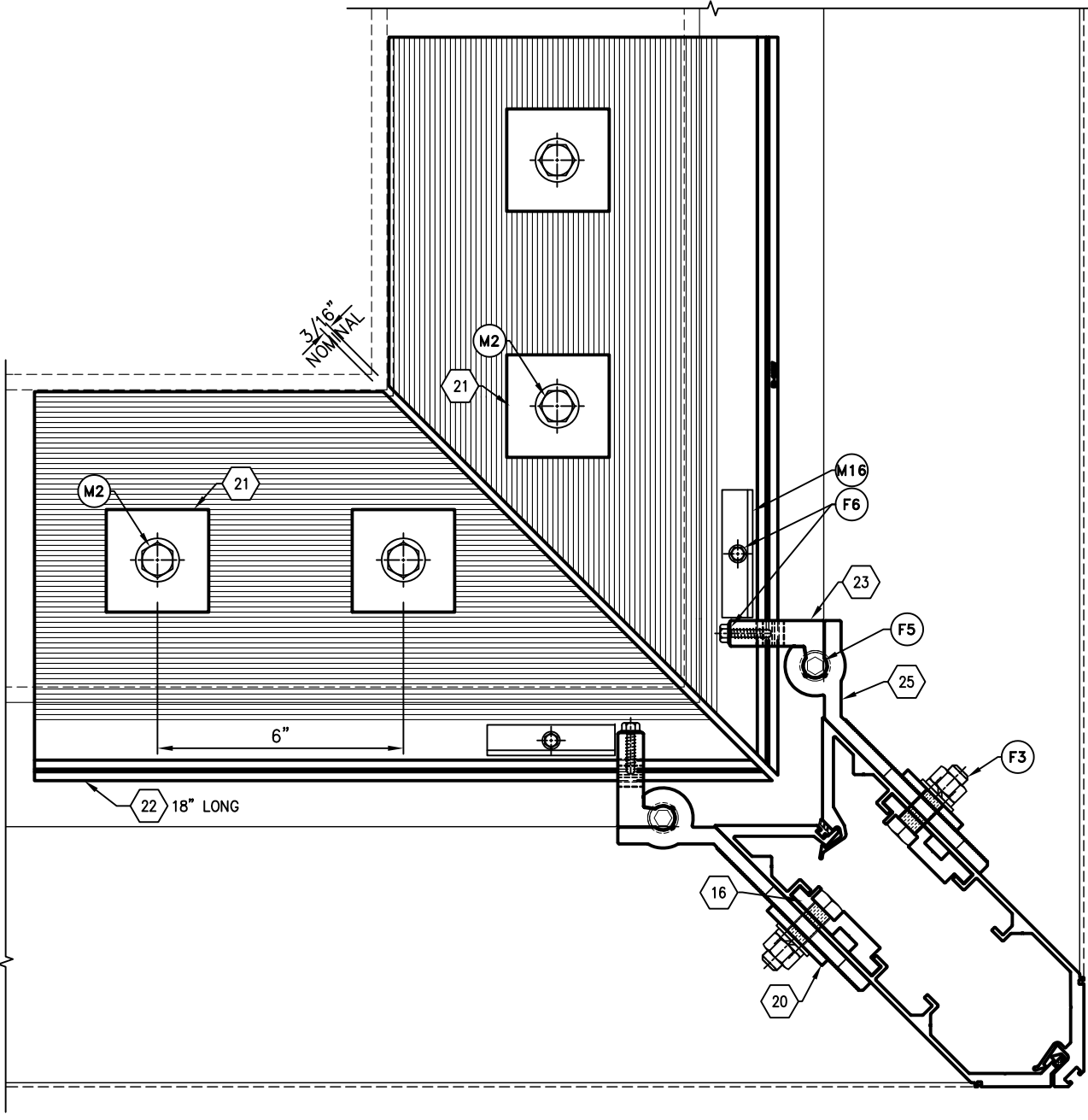
MAXIMUM LOAD AT ALTERNATE JAMB
MID-SPAN ANCHOR IS 3485 lb.



5A



5B



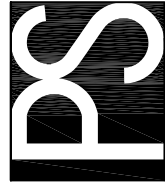
5C

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



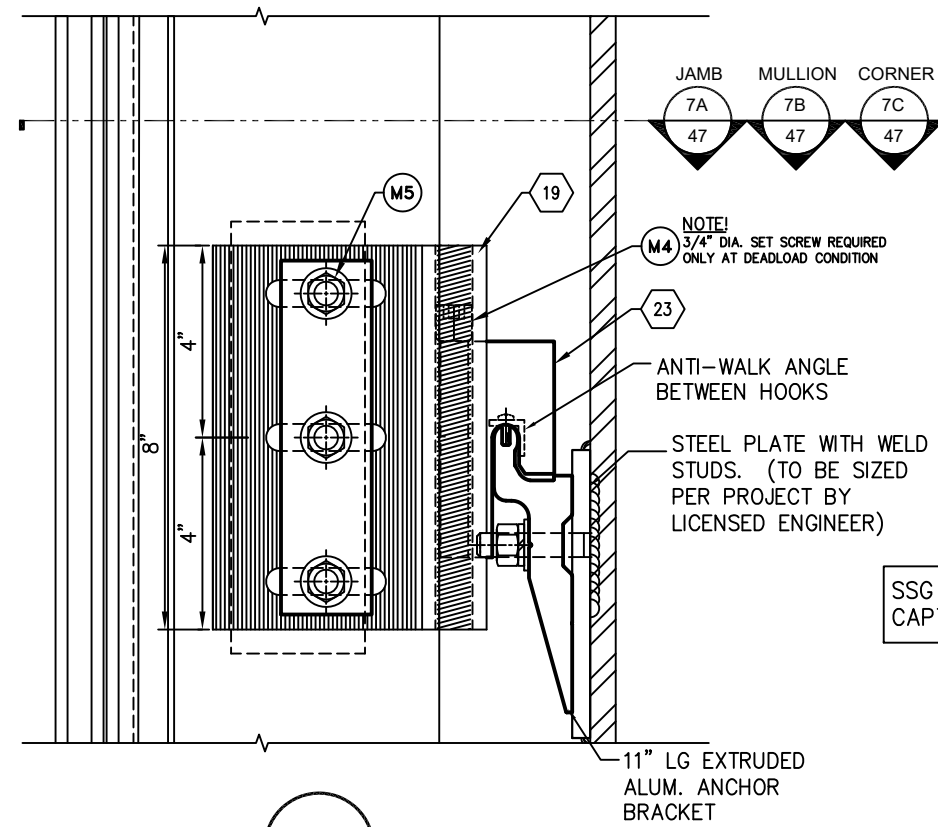
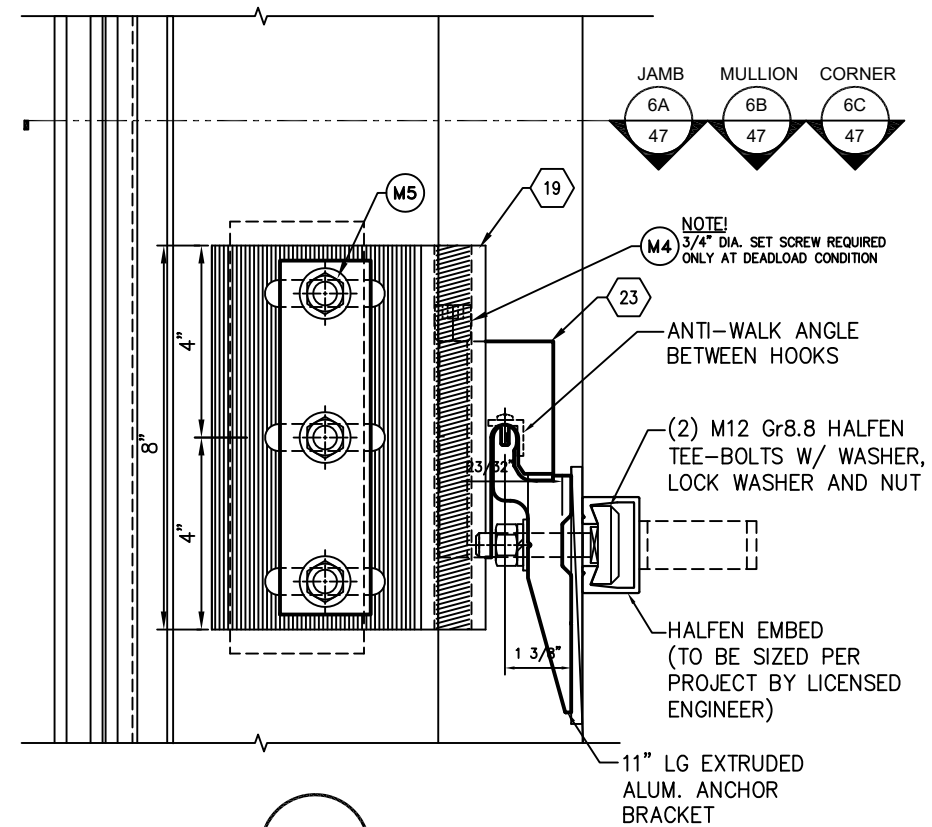
DWG: RT3-IR
SHEET: 46/54

SEAL: SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

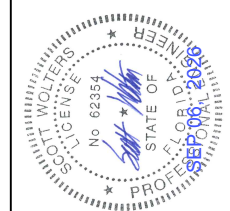
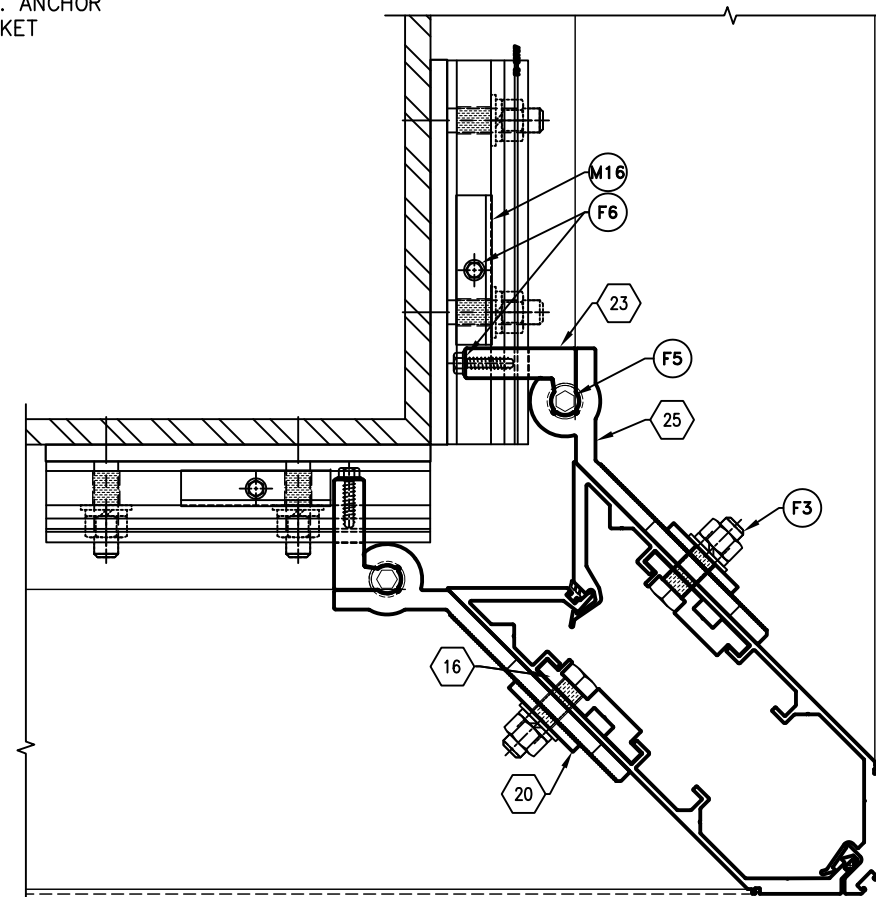
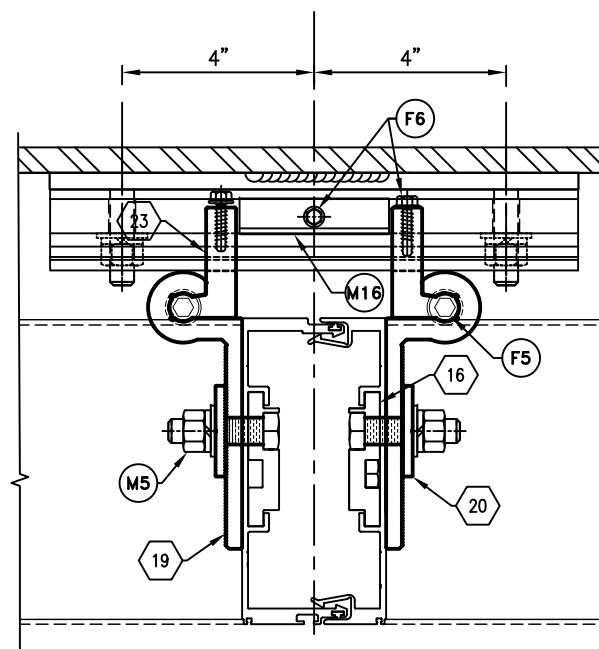
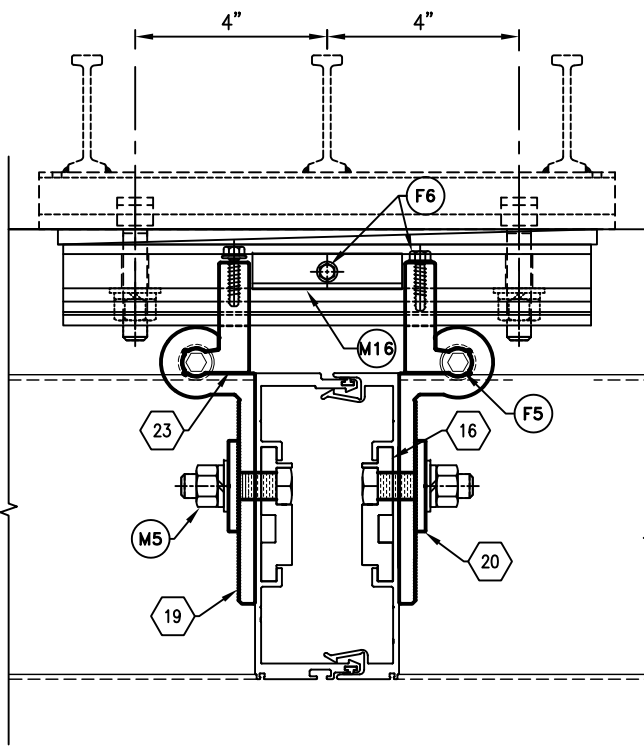
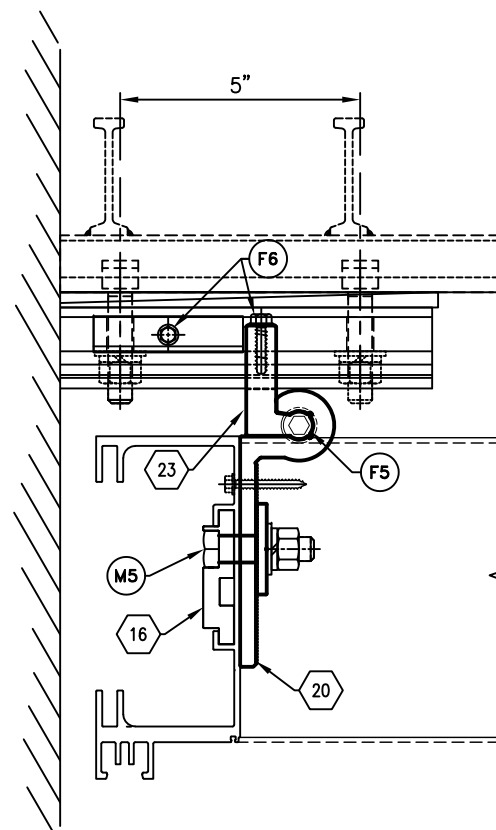
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

REV.#	DATE	DESCRIPTION
5	10/19/21	2020 CODE UPDATE
		PRINTS ISSUED FOR

MID-SPAN ANCHORS:



SSG MULLIONS ARE SHOWN.
CAPTURED MULLIONS ARE SIMILAR.



SEAL:

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FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
(561) 225-1982

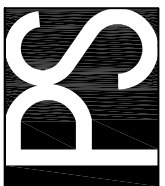
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

PRINTS ISSUED FOR	REV.#	DATE	DESCRIPTION
2020 CODE UPDATE	5	10/19/21	

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

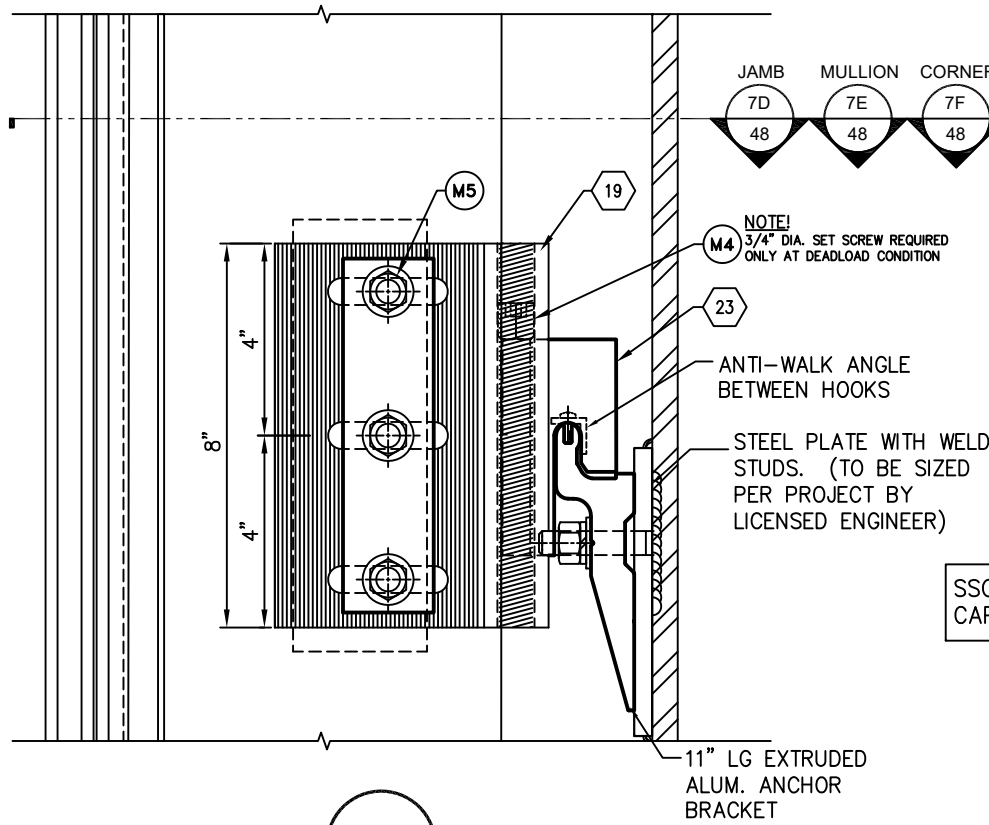
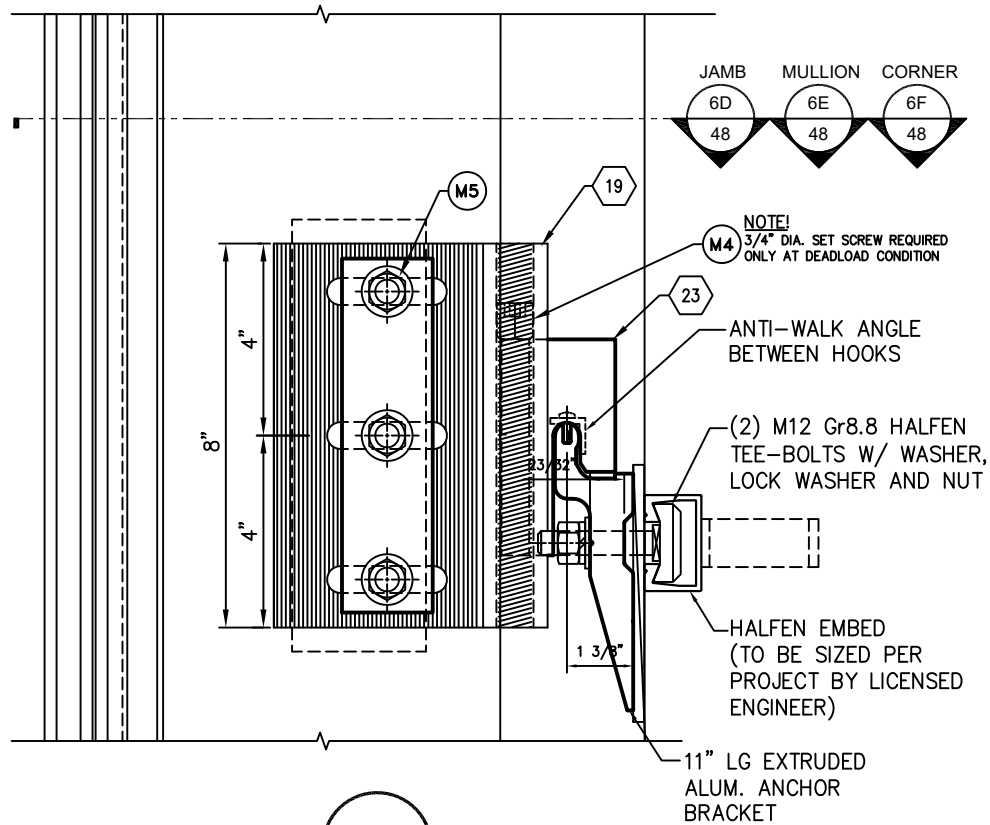
PHONE: (205)425-4072
FAX: (205)426-3937



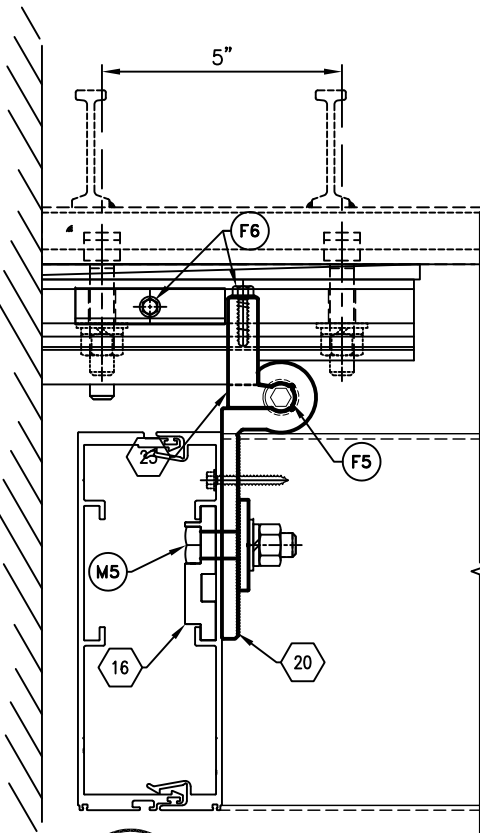
DWG: RT3-IR

SHEET: 47/54

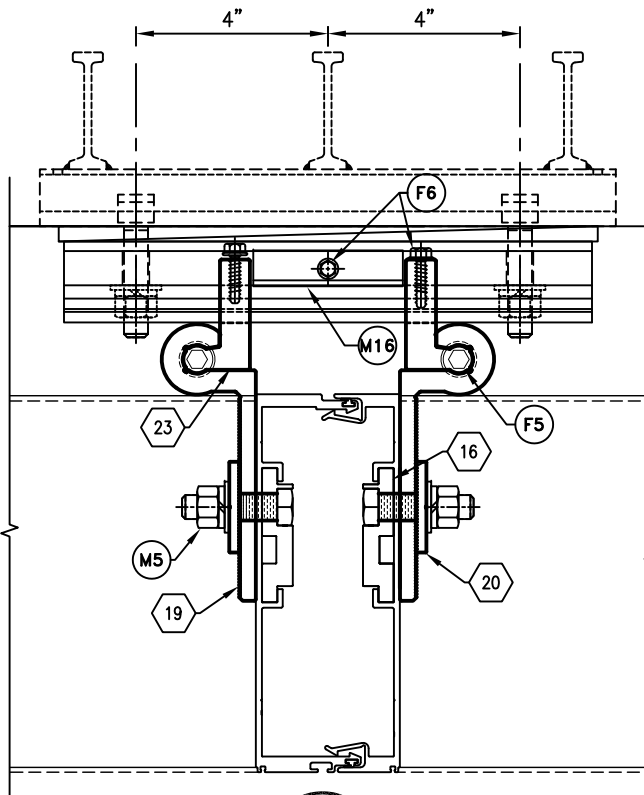
XL MULLION MID-SPAN ANCHORS:



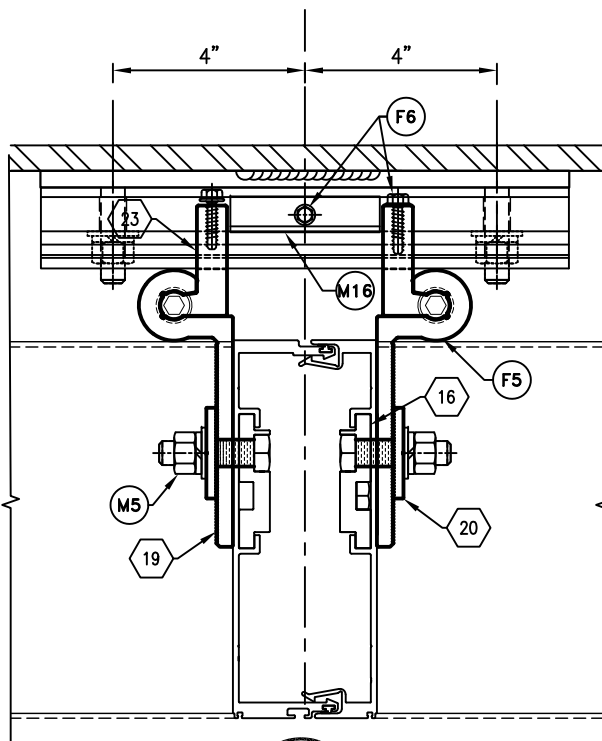
SSG MULLIONS ARE SHOWN.
CAPTURED MULLIONS ARE SIMILAR.



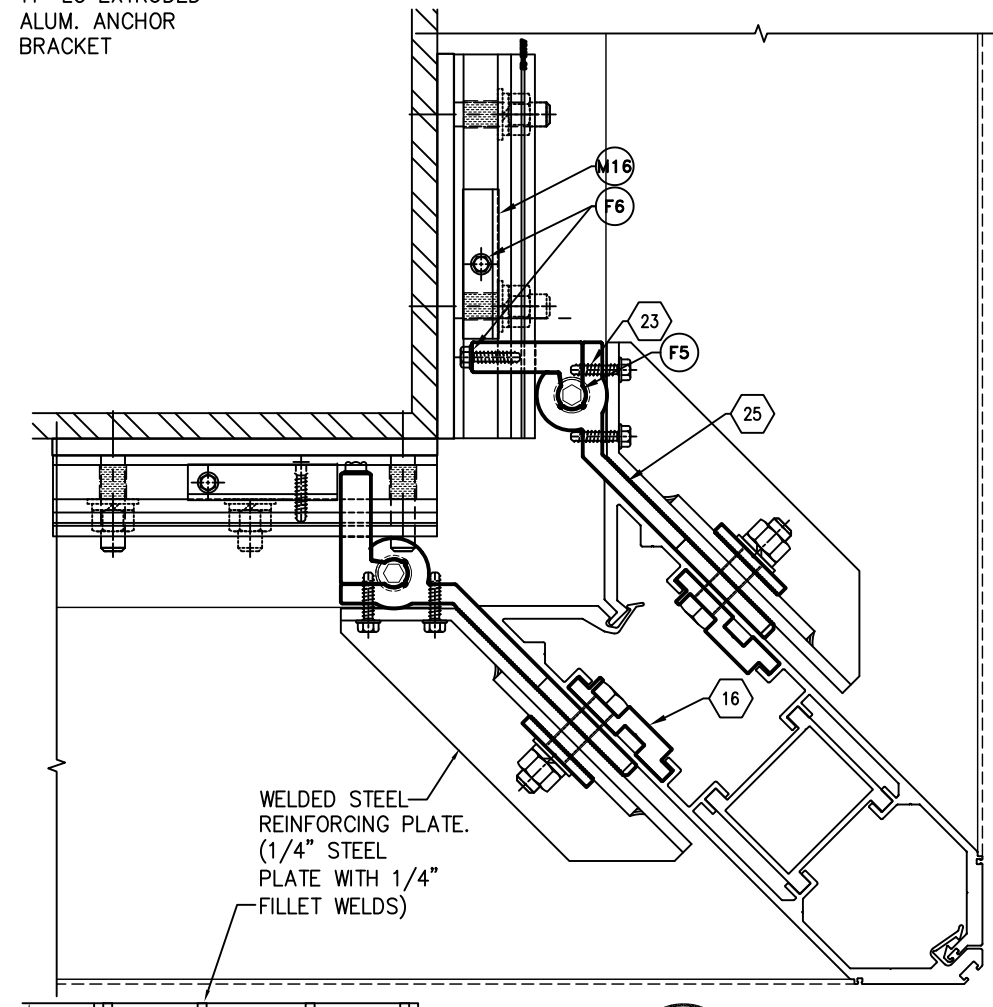
6D
(7D IS SIMILAR)



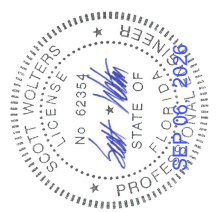
6E



7E



7F
(6F IS SIMILAR)



SEAL:
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

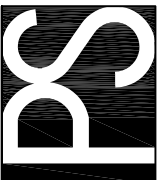
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REV.#	DATE	DESCRIPTION
11	2/25/25	
5	10/19/21	
2020 CODE UPDATE		
PRINTS ISSUED FOR		

PHYSICAL SECURITY, LLC

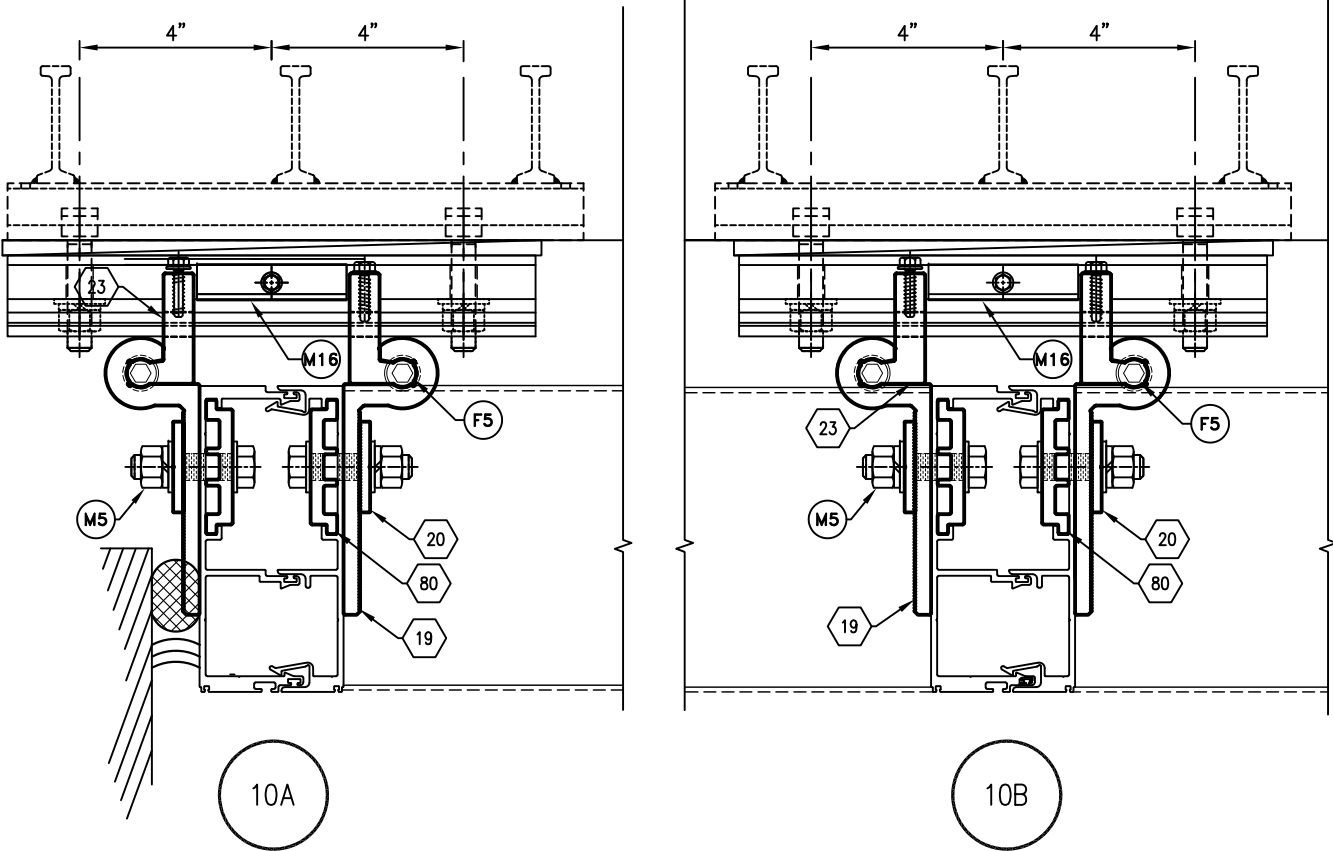
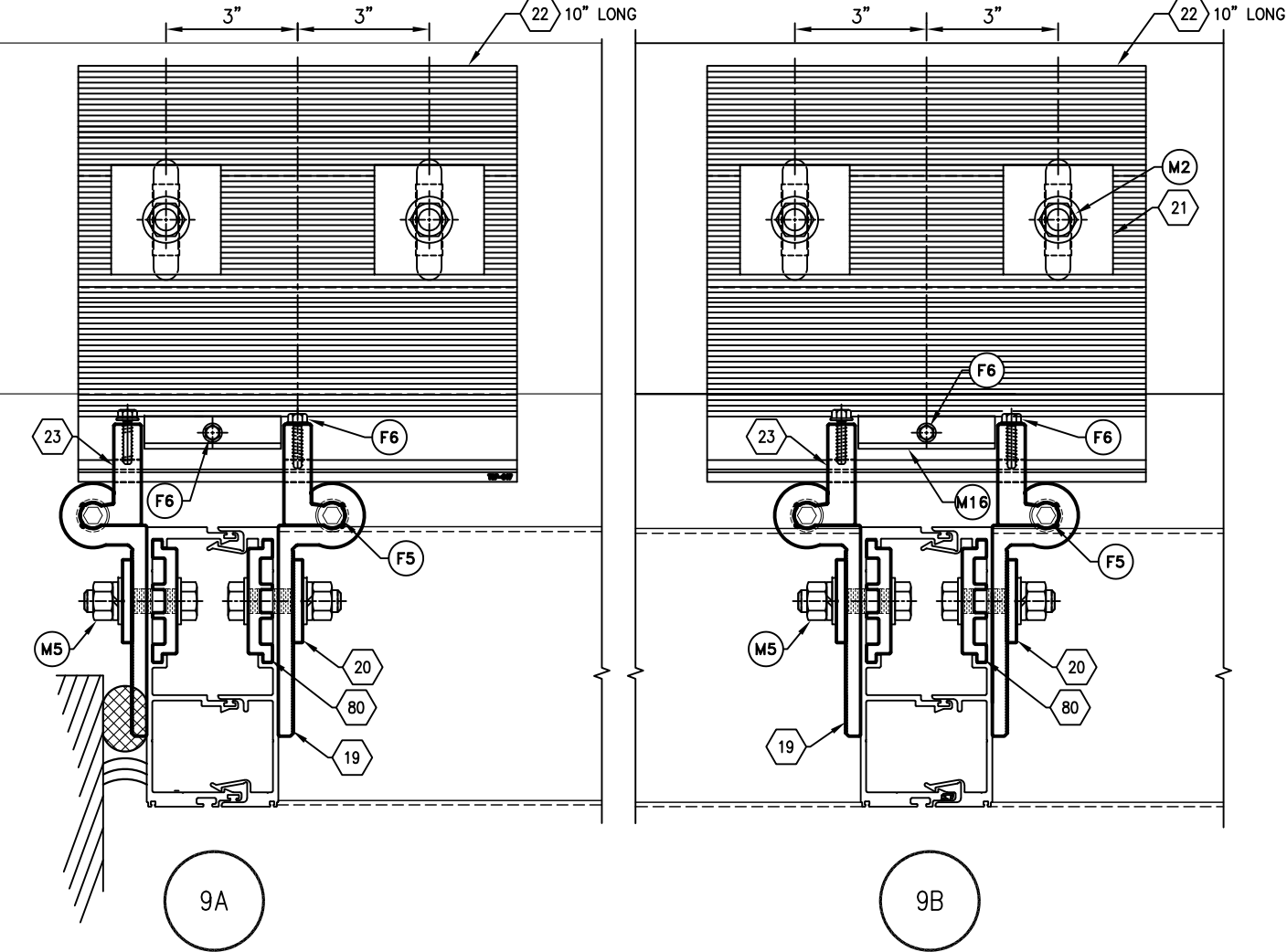
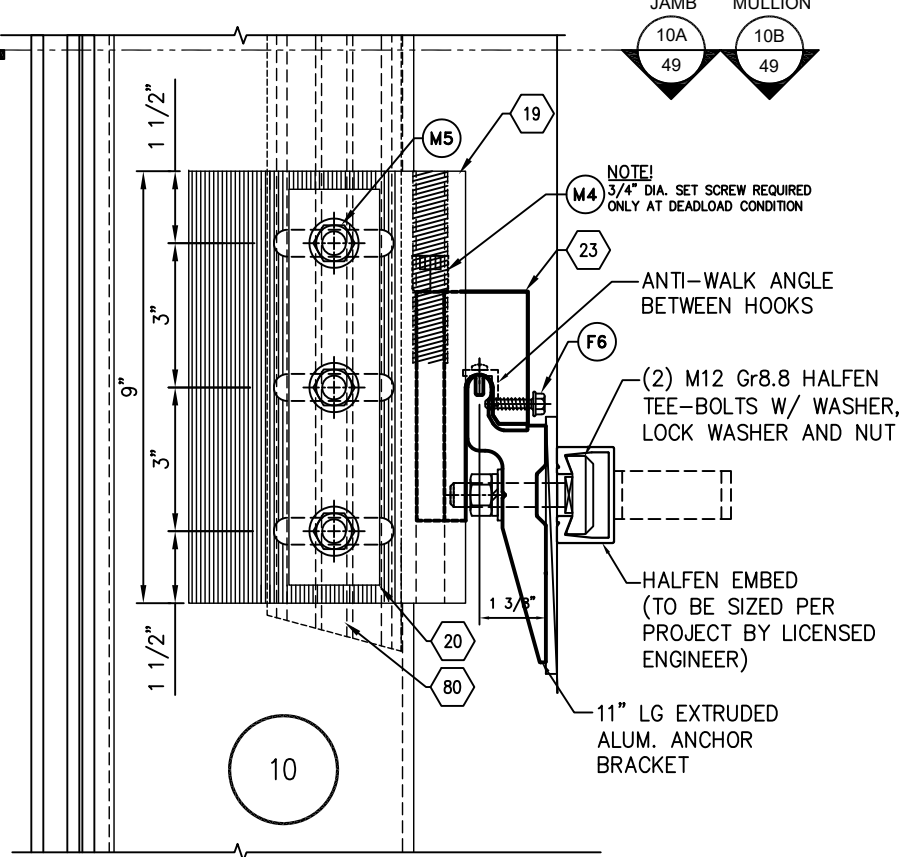
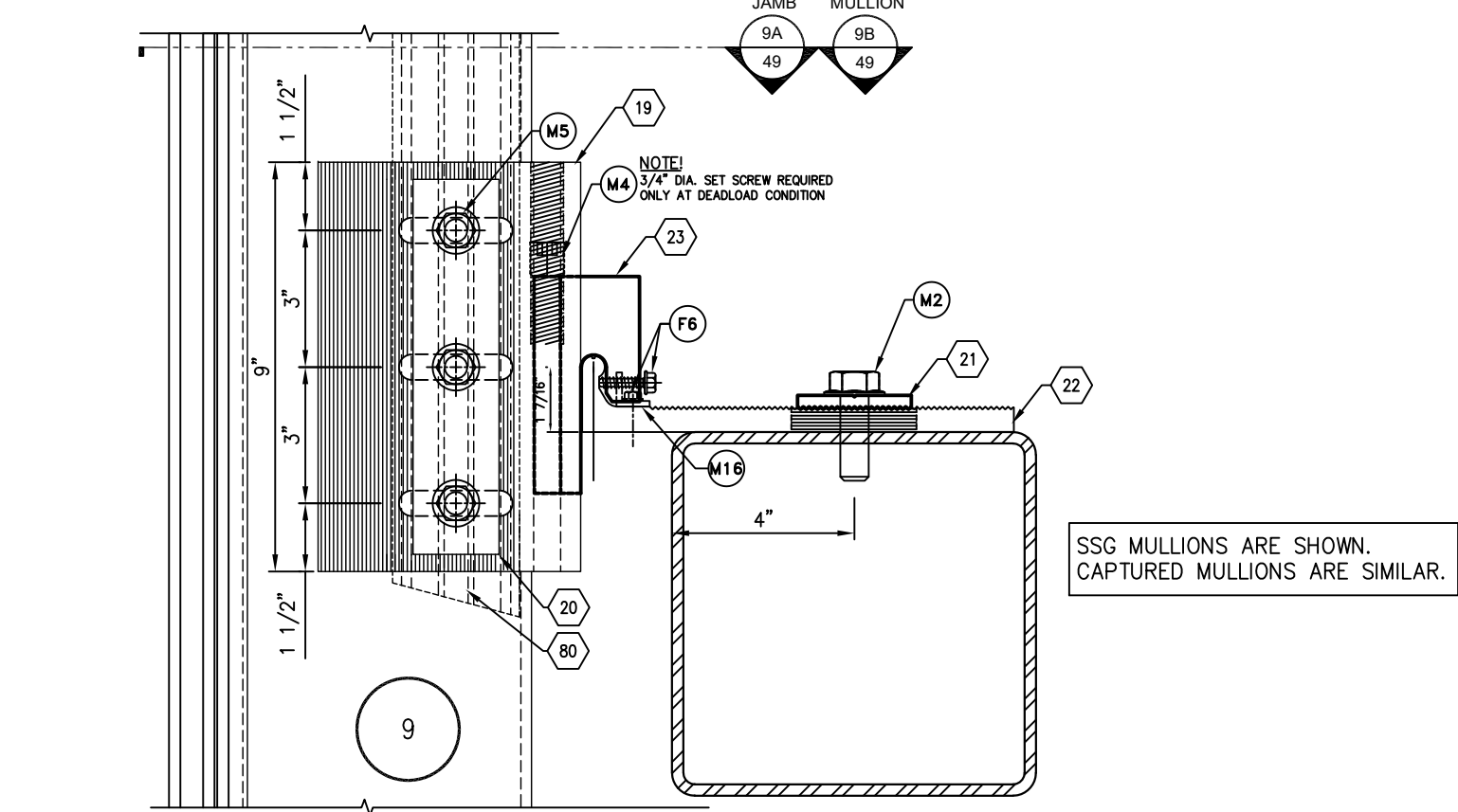
600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



DWG: RT3-IR
SHEET: 48/54

MID-SPAN ANCHORS:



SEAL:

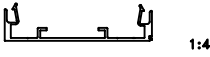
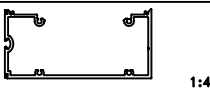
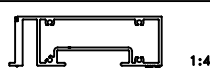
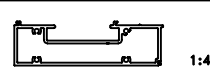
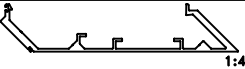
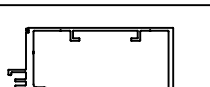
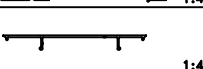
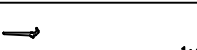
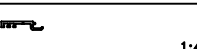
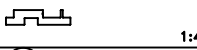
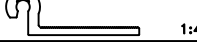
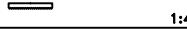
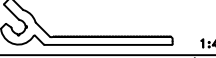
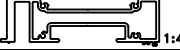
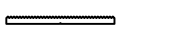
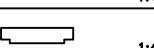
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

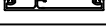
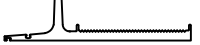
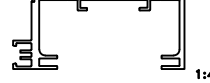
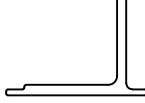
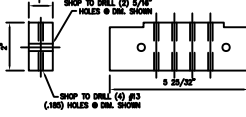
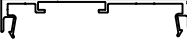
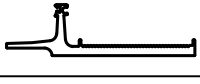
SEP 08 2009

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM					
PHYSICAL SECURITY, LLC	600 BELVIEW STREET BESSEMER, AL 35020	PHONE: (205)425-4072 FAX: (205)426-3937			
DWG:	RT3-IR				
SHEET:	49/54				

SERIES RT3 - IG - CURTAIN WALL - ALUMINUM EXTRUSION LIST

TAG	PART No.		DETAIL	DESCRIPTION	ALLOY	TYPICAL THICKNESS	REMARKS
	SAPA	KEYMARK					
1	SP7911-1	FS-09755	 1:4	FEMALE VERTICAL MULLION	6005-T5	0.125	
2	SP7911-2	FS-09757	 1:4	MALE VERTICAL MULLION	6005-T5	0.125	
3	SP7911-3	FS-09756	 1:4	INTERMEDIATE HORIZONTAL	6063-T5	0.140	
4	SP7911-4	FH-09759	 1:4	TOP STACK HORIZONTAL	6063-T5	0.125	
5	SP7911-5	FH-09758	 1:4	BOTTOM STACK HORIZONTAL	6063-T5	0.125	
6	SP7911-6	FS-09760	 1:4	FEMALE CORNER MULLION	6063-T6	0.125	
7	SP7911-7	FS-09761	 1:4	MALE CORNER MULLION	6063-T6	0.125	
8	SP7911-8	FS-09763	 1:4	CHICKEN HEAD	6005-T5	0.080	
9	SP7911-9	FS-09762	 1:4	HEAD/SILL HORIZONTAL	6063-T5	0.110	
10	SP7911-10	FS-09788	 1:4	JAMB VERTICAL MULLION	6063-T6	0.125	
11	SP7911-11	FS-09771	 1:4	HORIZONTAL INTERIOR FILLER	6063-T5	0.080	
12	SP7911-12	FS-09555	 1:4	HORIZONTAL ADAPTOR	6063-T5	0.125	
13	SP7911-13	FS-09766	 1:4	STACK HORIZONTAL ADAPTOR	6063-T5	0.100	
14	SP7911-14	FS-09765	 1:4	INTERMEDIATE HORIZONTAL	6063-T5	0.060	
15	SP7911-15	FS-09767	 1:4	EXTERIOR PERIMETER FILLER	6063-T5	0.122	
16	SP7911-16	FS-09769	 1:4	STACK SPLICE BAR	6005-T5	0.315	
19	ST-9313 B	FS-09786	 1:4	FIST ANCHOR	6005-T5	0.344	
20	ST-9342	FS-09764	 1:4	SERRATED PLATE @ MULLIONS	6005-T5	0.219	
21	ST-9378	FS-09770	 1:4	SERRATED PLATE @ T.O. SLAB	6005-T5	0.312	
22	ST-9376	FS-09787	 1:4	TOP OF SLAB ANCHOR	6005-T5	0.562	
23	ST-9377	FS-09774	 1:4	HOOK ANCHOR	6005-T5	0.625	
25		FS-09785	 1:4				
26		FH-10200	 1:4	TOP STACK HORIZONTAL	6063-T5	0.125	
27		FH-10493	 1:4	BOTTOM NARROW STACK HORIZONTAL	6063-T5	0.125	
28		T-42991	 1:4	BOTTOM CLOSER STACK HORIZONTAL	6063-T5	0.125	
29		FS-10321	 1:4	STARTER SILL	6005-T5	0.375	
30		FS-10322	 1:4	STARTER SILL SERRATED WASHER	6063-T5	0.25	
31		FS-10365	 1:4	STARTER SILL ADJUSTING PLATE	6005-T5	0.653	

SERIES RT3 - IG - CURTAIN WALL - ALUMINUM EXTRUSION LIST

TAG	PART No.		DETAIL	DESCRIPTION	ALLOY	TYPICAL THICKNESS	REMARKS
	SAPA	KEYMARK					
32	SP10674-2	FS-09781	 1:4	HORIZONTAL COVER	6063-T5	0.125	
33	SP10674-3	FS-09772	 1:4	HORIZONTAL STEM	6063-T5	0.125	
34	SP10674-4	FS-09783	 1:4	VERTICAL COVER	6063-T5	0.125	
35	SP10674-5	FS-09778	 1:4	INSULATED JAMB PRESSURE PLATE	6063-T5	0.125	
36	SP10674-6	FS-09780	 1:4	MONOLITHIC MULLION PRESSURE PLATE	6063-T5	0.125	
37	SP10674-7	FS-09777	 1:4	MULLION PRESSURE PLATE ADAPTOR	6063-T5	0.125	
38	SP10674-8	FS-09782	 1:4	STACK HORIZONTAL COVER	6063-T5	0.125	
39	SP10674-9	FS-09768	 1:4	STACK HORIZONTAL STEM	6063-T5	0.125	
44		FS-09883	 1:4	OPTIONAL STARTER SILL	6005-T5	0.375	
45			 1:4	MONO. JAMB PRESSURE PLATE	6063-T5	0.125	
46			 1:4	JAMB VERTICAL MULLION	6063-T6	0.125	
47			 1:4	MID-SPAN JAMB ANCHOR	6005-T5	0.375	
48		FS-10443	 1:4	MULLION PRESSURE PLATE ADAPTOR	6063-T5	0.125	
49			 1:4	3/4" x 3/4" x 1/8" ALUMINUM TUBE FILLER	6063-T5		
50		FS-09773	 1:4	CORNER COVER	6063-T5		
51	ST-9338		 1:4	CORNER COVER	6063-T5		
52			 1:4	SHEAR BLOCK	6063-T5		
53	SP7911-1	FS-09755	 1:4	FEMALE VERTICAL MULLION	6005-T5	0.125	
54	SP7911-2	FS-09757	 1:4	MALE VERTICAL MULLION	6005-T5	0.125	
55	SP7911-3	FS-09756	 1:4	HORIZONTAL INTERIOR FILLER	6063-T5	0.140	
56	SP7911-11	FS-09771	 1:4	HORIZONTAL INTERIOR FILLER	6063-T5	0.080	
57	SP7911-11	FS-09771	 1:4	PERIMETER FILLER	6063-T5	0.080	
58	SP7911-11	FS-09771	 1:4	PERIMETER FILLER	6063-T5	0.080	
59	SP7911-11	FS-09771	 1:4	PERIMETER FILLER	6063-T5	0.080	
60	SP7911-11	FS-09771	 1:4	PERIMETER FILLER	6063-T5	0.080	

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
(561) 225-1982

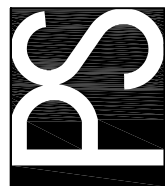
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

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REVISION	10	9/3/24		
2020 CODE UPDATE	5	10/19/21		
PRINTS ISSUED FOR	REV.#	DATE		DESCRIPTION

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



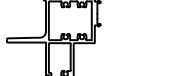
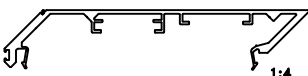
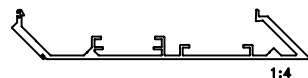
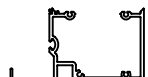
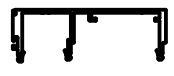
DWG:

RT3-IR

SHEET:

51/54

SERIES RT3 - IG - CURTAIN WALL - ALUMINUM EXTRUSION LIST

TAG	PART No.		DETAIL	DESCRIPTION	ALLOY	TYPICAL THICKNESS	REMARKS
	SAPA	KEYMARK					
61	SP7911-1	FS-09755	 1:4	FEMALE VERTICAL MULLION	6005-T5	0.125	
62	SP7911-2	FS-09757	 1:4	TOP STACK HORIZONTAL	6005-T5	0.125	
63	SP7911-3	FS-09756	 1:4	INTERMEDIATE HORIZONTAL	6063-T5	0.140	
64	SP7911-4	FH-09759	 1:4	TOP STACK HORIZONTAL	6063-T5	0.125	
65	SP7911-5	FH-09758	 1:4	BOTTOM STACK HORIZONTAL	6063-T5	0.125	
66	SP7911-6	FS-09760	 1:4	FEMALE CORNER MULLION	6063-T6	0.125	
67	SP7911-7	FS-09761	 1:4	MALE CORNER MULLION	6063-T6	0.125	
68	SP7911-9	FS-09762	 1:4	HEAD/SILL HORIZONTAL	6063-T5	0.110	
69	SP7911-10	FS-09788	 1:4	JAMB VERTICAL MULLION	6063-T6	0.125	
70		FS-13467	 1:4	FEMALE VERTICAL MULLION	6063-T6	0.125	
71		FS-13466	 1:4	MALE VERTICAL MULLION	6063-T6	0.125	
72		FS-13468	 1:4	SHALLOW HEAD/HORIZONTAL MULLION	6063-T6	0.125	
73		FS-13469	 1:4	SHALLOW FLAT FILLER	6063-T6	0.125	
74		FS-13470	 1:4	SHALLOW SILL MULLION	6063-T6	0.125	
75		FS-13472	 1:4	SILL STARTER TRACK	6063-T6	0.125	
76		FS-13471	 1:4	SERRATED WASHER	6063-T6	0.125	
77		FH-10936	 1:4	JAMB MULLION	6005-T5	0.125	
78		FH-11686	 1:4	MALE VERTICAL MULLION WITH INTERNAL SEAL	6005-T5	0.125	
79		FH-11687	 1:4	FEMALE VERTICAL MULLION WITH INTERNAL SEAL	6005-T5	0.125	

SERIES RT3 - IG - CURTAIN WALL - ALUMINUM EXTRUSION LIST

TAG	PART No.		DETAIL	DESCRIPTION	ALLOY	TYPICAL THICKNESS	REMARKS
	SAPA	KEYMARK					
80		FS-10234	 1:4	STACK SPLICE BAR	6005-T5	0.125	
81		FS-10240	 1:4	TOP STACK HORIZONTAL	6005-T5	0.125	
82		FS-10232	 1:4	STACK HORIZONTAL	6005-T5	0.125	
83		FS-10448	 1:4	OPTIONAL STARTER TRACK	6005-T5		

SERIES RT3 - IG - CURTAIN WALL - MISCELLANEOUS

TAG	DETAIL	DESCRIPTION	MATERIAL	REMARKS
M25	 1:4	6 3/8" X 3/4" STEEL REINFORCEMENT BAR		
M26	 1:2	3 5/16" X 1/4" STEEL REINFORCEMENT BAR		
M27	 1:2	2 3/4" X 1/4" STEEL REINFORCEMENT BAR		
M28	 1:2	3" X 3/8" STEEL REINFORCEMENT BAR		
M29	 1:2	3 1/2" X 1/2" STEEL REINFORCEMENT BAR		
M30	 1:2	3 1/8" X 5/8" STEEL REINFORCEMENT BAR		
M31	 1:2	3 1/2" X 5/8" STEEL REINFORCEMENT BAR		

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33411
(561) 225-1982

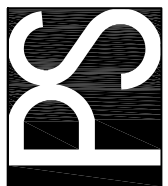
RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REV #	DATE	DESCRIPTION
14	10/31/25	
12	5/2/25	
10	9/3/24	
5	10/19/21	
2020 CODE UPDATE		
PRINTS ISSUED FOR		

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937

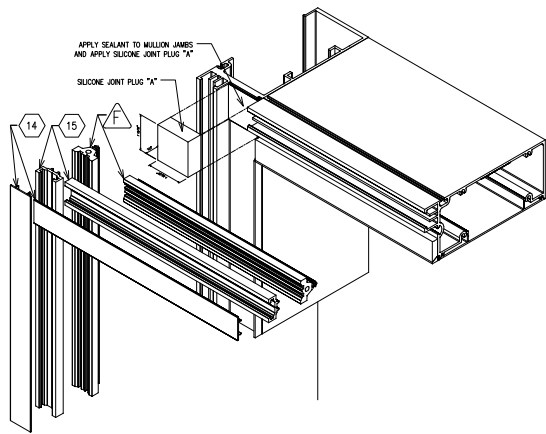


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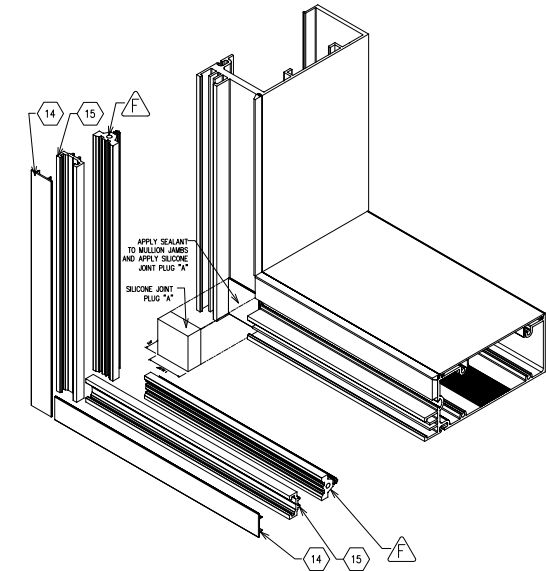
RT3-IR

SHEET:

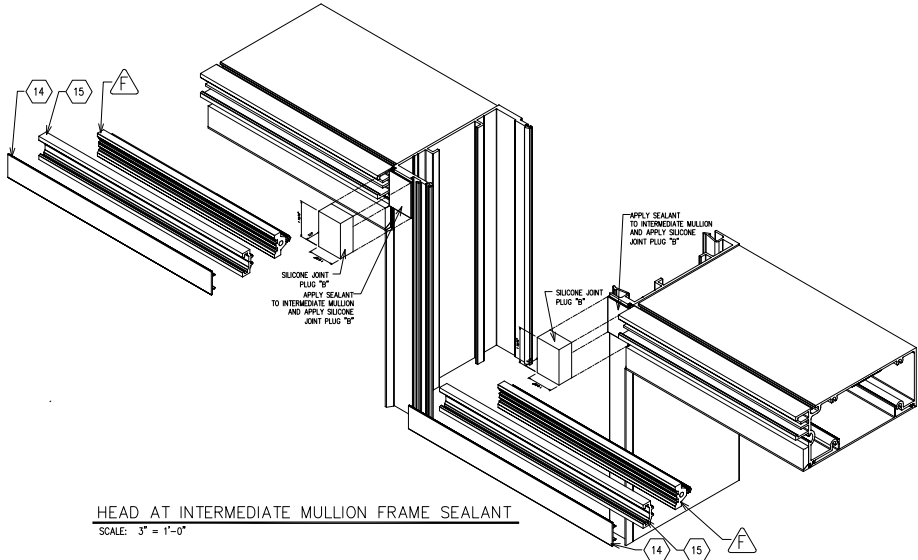
52/54



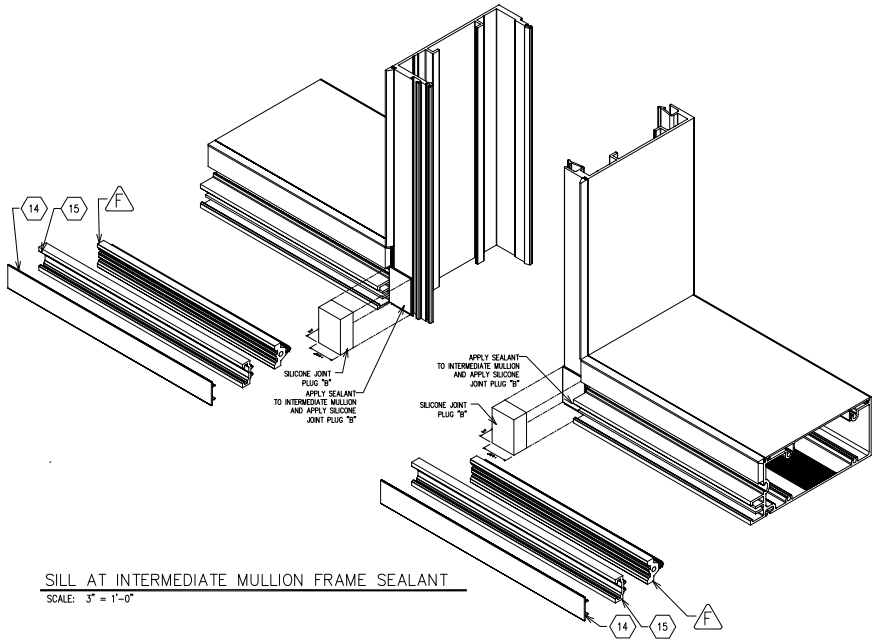
HEAD AT JAMB FRAME SEALANT
SCALE: 3" = 1'-0"



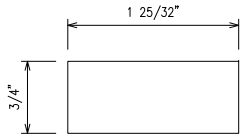
SILL AT JAMB FRAME SEALANT
SCALE: 3" = 1'-0"



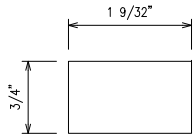
HEAD AT INTERMEDIATE MULLION FRAME SEALANT
SCALE: 3" = 1'-0"



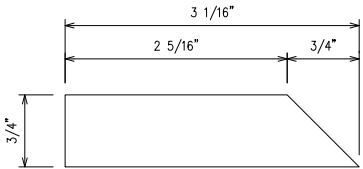
SILL AT INTERMEDIATE MULLION FRAME SEALANT
SCALE: 3" = 1'-0"



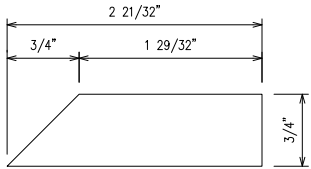
"A" SILICONE JOINT PLUG @ JAMB DETAIL
SCALE: FULL SIZE
HEIGHT = 1 13/16"



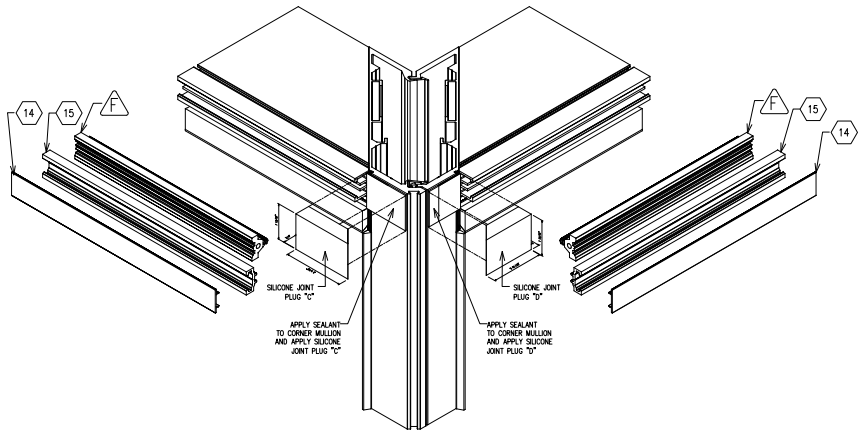
"B" SILICONE JOINT PLUG @ INTERMEDIATE DETAIL
SCALE: FULL SIZE
HEIGHT = 1 13/16"



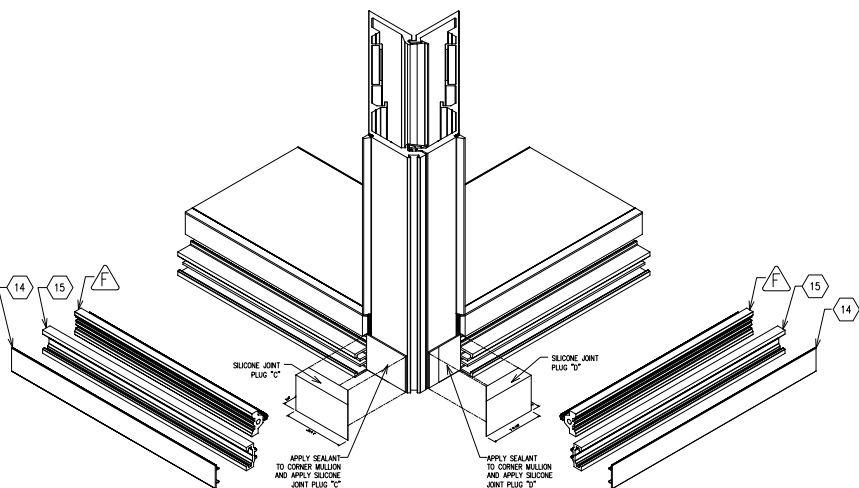
"C" SILICONE JOINT PLUG @ CORNER DETAIL
SCALE: FULL SIZE
HEIGHT = 1 13/16"



"D" SILICONE JOINT PLUG @ CORNER DETAIL
SCALE: FULL SIZE
HEIGHT = 1 13/16"



HEAD AT CORNER MULLION FRAME SEALANT
SCALE: 3" = 1'-0"



SILL AT CORNER MULLION FRAME SEALANT
SCALE: 3" = 1'-0"



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CDA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL
33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5	10/19/21	2020 CODE UPDATE
6		PRINTS ISSUED FOR

PHYSICAL SECURITY, LLC

600 BELVIEW STREET
BESSEMER, AL 35020

PHONE: (205)425-4072
FAX: (205)426-3937



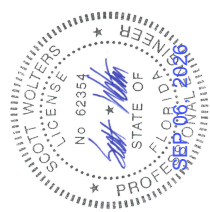
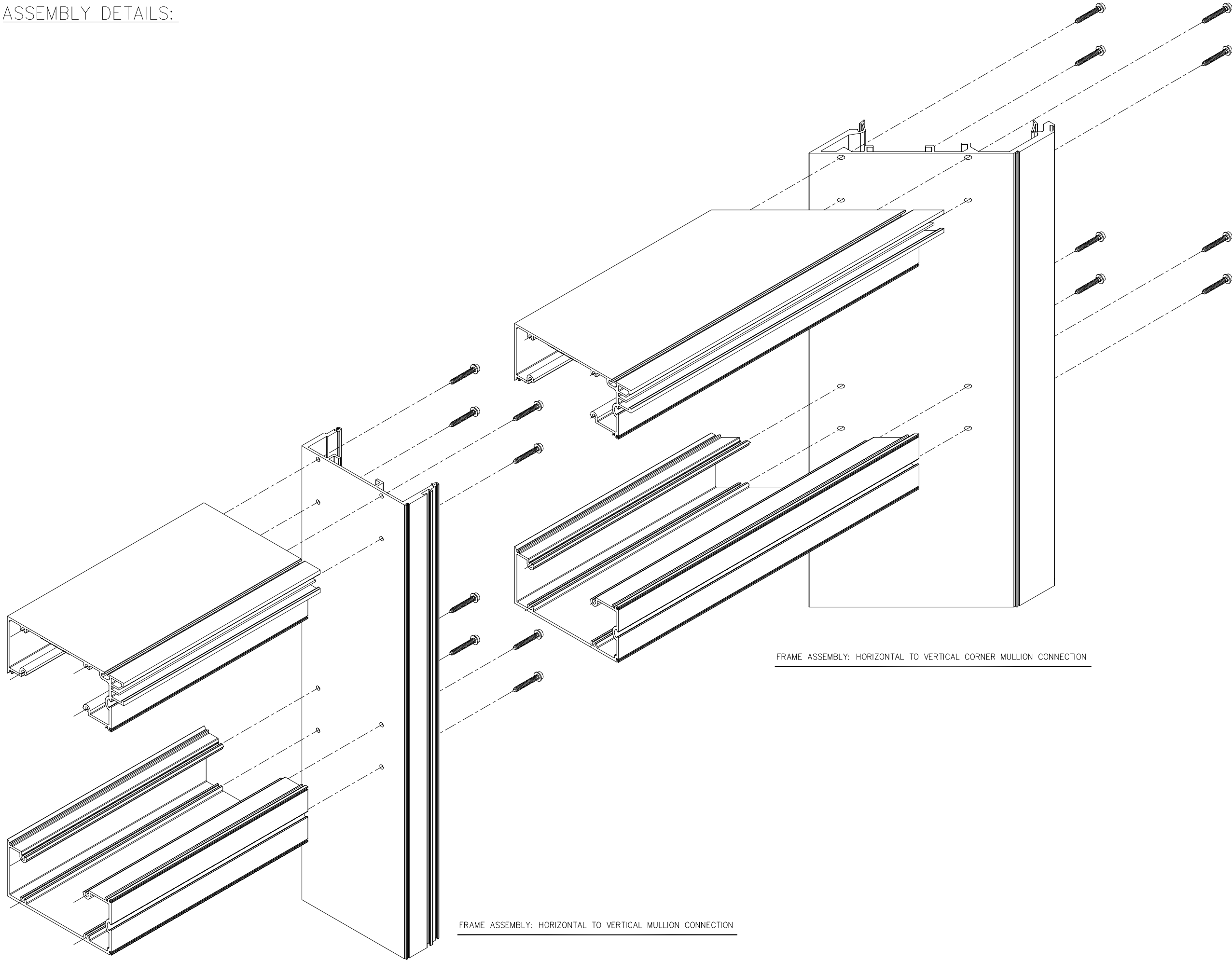
DWG:

RT3-IR

SHEET:

53/54

ASSEMBLY DETAILS:



SEAL:
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

RT3 IMPACT RESISTANT CURTAINWALL SYSTEM

-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
2020 CODE UPDATE	5	10/19/21	REV.#	DATE	DESCRIPTION
PRINTS ISSUED FOR					

PHYSICAL SECURITY, LLC
600 BELVIEW STREET
BESSEMER, AL 35020
PHONE: (205)425-4072
FAX: (205)426-3937