

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
10. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.

ALLOWABLE D.L.O. SIZE TABLE	
MAXIMUM D.L.O. HEIGHT (IN.)	MAXIMUM D.L.O. WIDTH (IN.)
115 1/4	43 3/4
108	46 1/2
102	49 1/4
96	52 1/2
92 3/4	54 1/4
90	56
84	60

CORNER CONSTRUCTION:

FRAME CORNERS & VERTICAL INTERMEDIATE CORNERS: HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED TO THE VERTICAL MEMBER, FASTENED WITH 3 TO 4 S.S. NO. 12 X 1" PHTFs FASTENERS THROUGH THE VERTICAL MEMBERS INTO THE HORIZONTAL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

PROJECT-OUT FRAME CORNERS: MITERED, JOINED TOGETHER VIA A CORNER KEY (ITEM #24) & SEALED WITH SILICONE SEALANT.

PROJECT-OUT SASH CORNERS: MITERED, JOINED TOGETHER VIA A CORNER KEY (ITEM #25) & SEALED WITH SILICONE SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME & STRAP ANCHOR SCREWS			
(1) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 3/8"	1"
MIN. 16 GA. 50 KSI METAL STUD	1/4" SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T6 ALUM.	1/4" SELF TAP/DRILL SCREW	FULL	1/2"
(2) CONCRETE FILLED CMU	(3) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"
3000 PSI CONCRETE	(3) 1/4" CONCRETE SCREW	1 3/4"	2 1/2"

- (1) FRAME SCREW MOUNT REQUIRES MIN. 2X4; STRAP ANCHOR MOUNT REQUIRES MIN. 2X6.
- (2) WHEN SUBSTRATE IS WOOD & FRAME SCREWS ARE REQUIRED AT SIDES OF OPENING, THE SHIM SPACE AT THE SIDES SHALL NOT BE GREATER THAN 1/4" UNLESS THE SCREWS ARE GRADE 5 (MAY BE UP TO 3/8" WITH GR. 5 SCREWS)
- (3) CMU IS APPLICABLE AT SIDES ONLY & MUST BE CONCRETE FILLED WHEN SIDE JAMB ANCHORS ARE REQUIRED.
- (4) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

MULLION PRESSURE TABLE (VERTICAL INTERMEDIATE MULLION)

MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		6 ANCHORS	4 ANCHORS
121 1/4	62 3/4	56.6	36.5
	56 3/4	62.6	40.4
	50 3/4	70.0	45.2
	44 3/4	70.0	51.2
	38 3/4	70.0	59.2
	32 3/4	70.0	70.0
	26 3/4	70.0	70.0
109 1/4	62 3/4	62.8	40.6
	56 3/4	69.5	44.8
	50 3/4	70.0	50.1
	44 3/4	70.0	56.9
	38 3/4	70.0	65.7
	35 3/4	70.0	70.0
	26 3/4	70.0	70.0
97 1/4	62 3/4	70.0	45.6
	56 3/4	70.0	50.4
	50 3/4	70.0	56.3
	44 3/4	70.0	63.9
	40 3/4	70.0	70.0
	35 3/4	70.0	70.0
	26 3/4	70.0	70.0
90	62 3/4	70.0	49.2
	56 3/4	70.0	54.4
	50 3/4	70.0	60.9
	44 3/4	70.0	69.0
	35 3/4	70.0	70.0
84	62 3/4	70.0	52.7
	56 3/4	70.0	58.3
	50 3/4	70.0	65.2
	46 3/4	70.0	70.0
	35 3/4	70.0	70.0
78	62 3/4	70.0	56.8
	56 3/4	70.0	62.8
	50 3/4	70.0	70.0
72	62 3/4	70.0	61.5
	56 3/4	70.0	68.0
	54 3/4	70.0	70.0
66	62 3/4	70.0	67.1
	59 3/4	70.0	70.0
65	62 3/4	70.0	70.0

MULLION PRESSURE TABLE (5" SIDE JAMB)

MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		3 ANCHORS PER END	2 ANCHORS PER END
121 1/4	35	58.0	38.5
	32	63.4	42.1
	29	70.0	46.5
	26	70.0	51.8
	23	70.0	58.6
	20	70.0	67.4
	17	70.0	70.0
109 1/4	35	64.4	42.7
	32	70.0	46.7
	29	70.0	51.6
	26	70.0	57.5
	23	70.0	65.0
	20	70.0	70.0
	17	70.0	70.0
97 1/4	35	70.0	48.0
	32	70.0	52.5
	29	70.0	57.9
	26	70.0	64.6
	23	70.0	70.0
90	35	70.0	51.9
	32	70.0	56.7
	29	70.0	62.6
	26	70.0	69.8
	25	70.0	70.0
84	35	70.0	55.6
	32	70.0	60.8
	29	70.0	67.1
	27	70.0	70.0
	25	70.0	70.0
78	35	70.0	59.8
	32	70.0	65.4
	29	70.0	70.0
72	35	70.0	64.8
	32	70.0	70.0
66	35	70.0	70.0

1. DIMENSIONS SHOWN ARE +/-1/4".

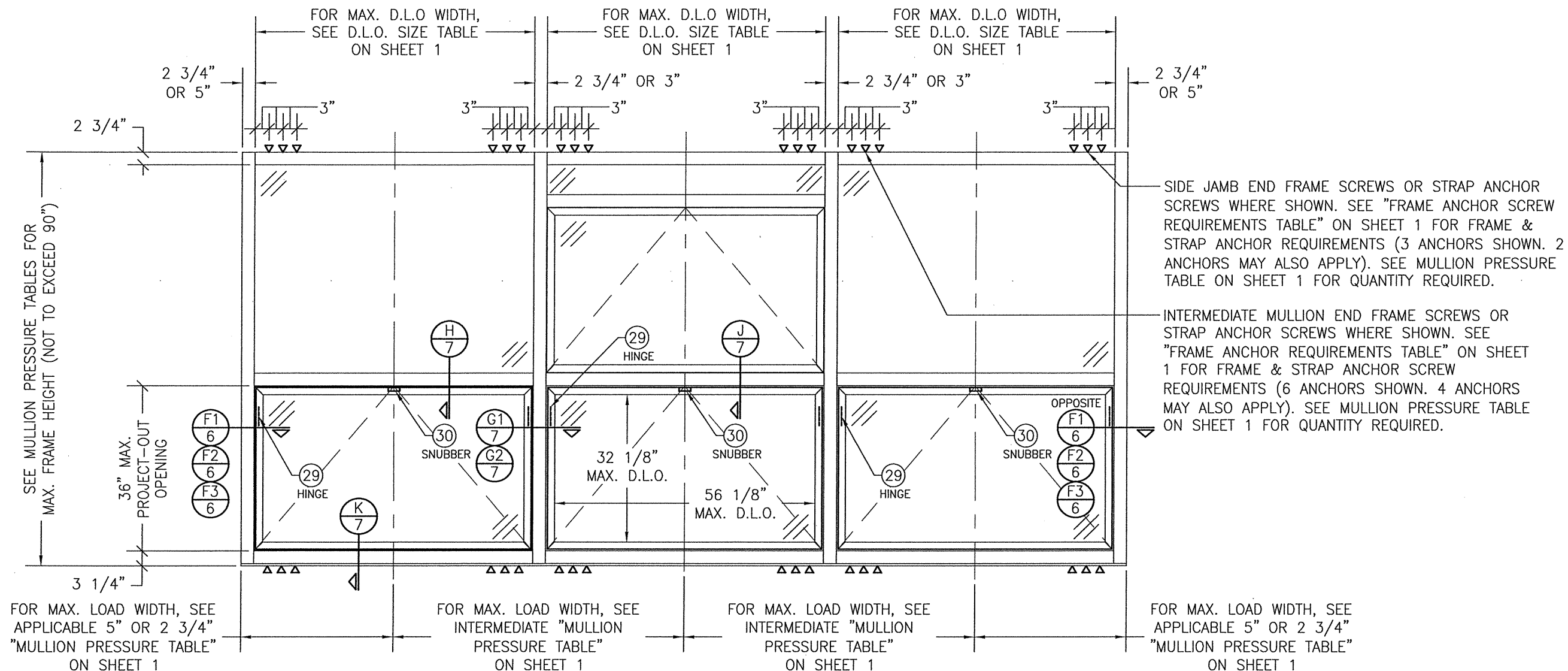
MULLION PRESSURE TABLE (2 3/4" SIDE JAMB)

MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		3 ANCHORS PER END	2 ANCHORS PER END
90	32 3/4	70.0	46.5
	29 3/4	70.0	51.1
	26 3/4	70.0	56.9
	23 3/4	70.0	64.1
	20 3/4	70.0	70.0
	17 3/4	70.0	70.0
84	32 3/4	70.0	49.8
	29 3/4	70.0	54.8
	26 3/4	70.0	60.9
	23 3/4	70.0	68.6
78	32 3/4	70.0	53.6
	29 3/4	70.0	59.0
	26 3/4	70.0	65.6
	23 3/4	70.0	70.0
	20 3/4	70.0	70.0
72	32 3/4	70.0	58.1
	29 3/4	70.0	63.9
	26 3/4	70.0	70.0
66	32 3/4	70.0	63.4
	29 3/4	70.0	69.7
	28 3/4	70.0	70.0
60	32 3/4	70.0	69.7
	31 3/4	70.0	70.0

1. DIMENSIONS SHOWN ARE +/-1/4".
2. FRAME HEIGHTS CONSIDERED ARE FOR SINGLE SPAN JAMBS ONLY. WHEN JAMB HAS MID-SPAN ANCHORS & IS SPLIT INTO 2 SPANS, THIS TABLE DOES NOT APPLY, ALLOWABLE PRESSURE ON THE 2-SPAN JAMB IS +/-70 PSF FOR ALL UNIT SIZE CONDITIONS & ONLY 2 ANCHORS ARE REQUIRED AT JAMB ENDS.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 06/28/11	
DATE	BY	REVISION	DESCRIPTION
06/13/12	W.R.M.	A1	UPDATE PER NEW TESTING
12/15/14	W.W.S.	B1	UPDATE TO CURENT STANDARDS
03/25/15	W.W.S.	C1	ADD NEW DEBRIDING OPTION
06/29/17	W.W.S.	D1	UPDATE PER NEW TESTING
07/15/20	W.W.S.	E1	CHANGED GLAZING GASKET #36
DRAWING TITLE: IR501T & IR501UT ALUMINUM LARGE MISSILE IMPACT STORE FRONT SYSTEM (DRY GLAZED)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
CERTIFICATION: JUL 16 2020 WARREN W. SCHAEFER, P.E. NO. 44135			
DRAWING NO. 1760		REV. E	
SHEET NO. 1 OF 10			



**EXTERIOR ELEVATION:
STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOWS**

SCALE: 1/2" = 1'-0"

(FOR STORE FRONT DETAIL & INSTALLATION NOT SHOWN, SEE ELEVATION ON SHEET 2)

**ALLOWABLE DESIGN PRESSURE
(STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOWS)**

PRESSURE IS CONTROLLED BY VERTICAL FRAMING
MEMBERS/MULLIONS & THEIR END ANCHOR QUANTITIES.
SEE MULLION PRESSURE TABLES ON SHEET 1 FOR
ALLOWABLE MULLION PRESSURE CONDITIONS.

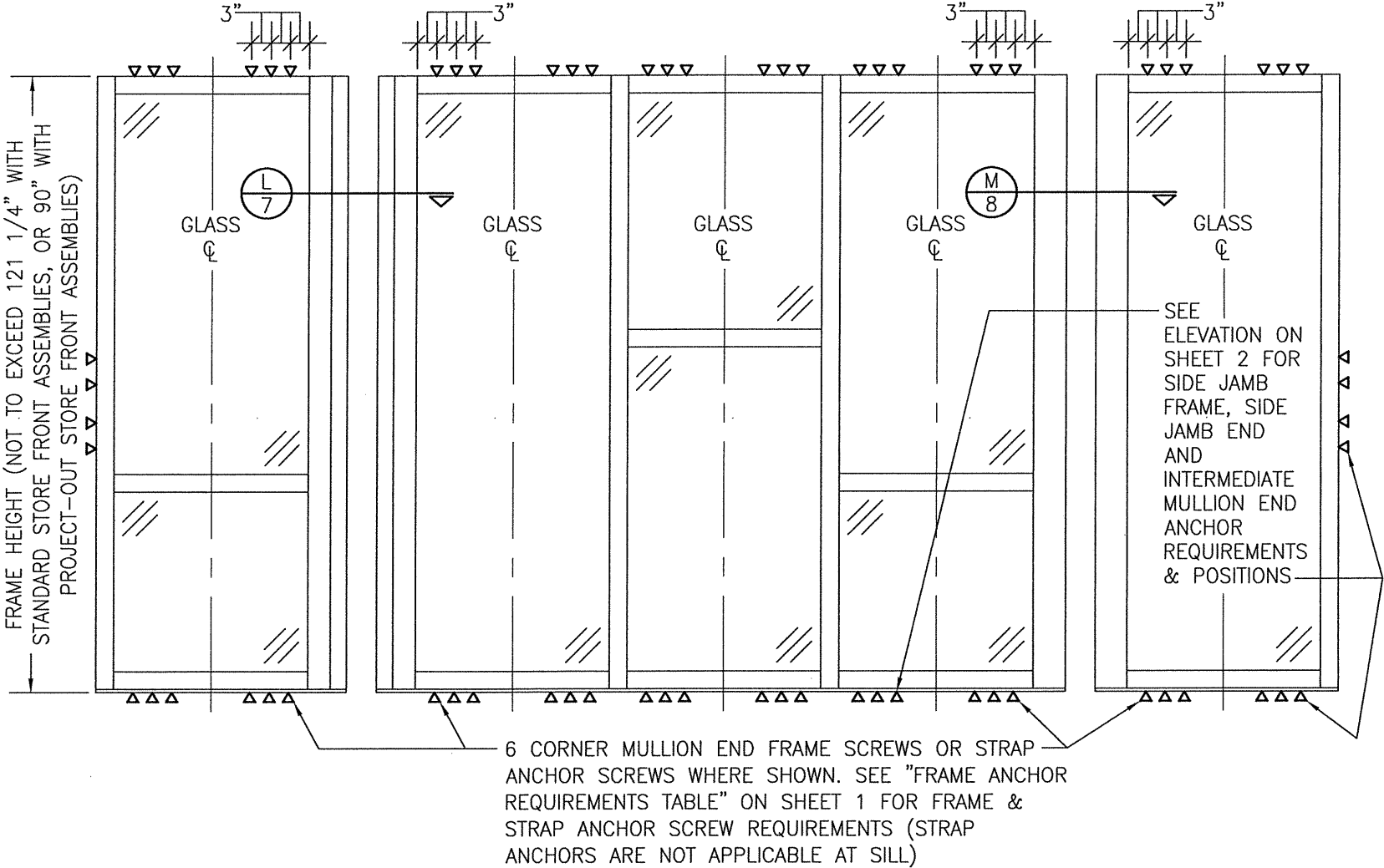
STORE FRONT ASSEMBLY WITH PROJECT-OUT WINDOW NOTES:

1. PROJECT-OUT WINDOWS MAY BE PLACED ANYWHERE WITHIN THE STORE FRONT FRAMING.
2. THERE IS NO LIMIT ON THE NUMBER OF PROJECT-OUT WINDOWS THAT MAY BE PLACED IN ANY ONE BAY OF THE STORE FRONT SYSTEM. NOTE: IT IS RECOMMENDED TO USE AN EXPANSION MULLION EVERY 20 FT. MAXIMUM ACROSS ALL OPENINGS OVER 20 FT. WIDE.
3. WHEN PROJECT-OUT WINDOWS EXIST, OVERALL FRAME HEIGHT SHALL BE LIMITED AS SHOWN. POTENTIAL INCREASED HEIGHTS SHALL BE REVIEWED & APPROVED BASED ON SEPARATE CERTIFICATION FOR ONE-TIME JOB APPROVAL IF NECESSARY.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 06/28/11	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: IR501T & IR501UT ALUMINUM LARGE MISSILE IMPACT STORE FRONT SYSTEM (DRY GLAZED)			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JUL 16 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1760		REV. E	
SHEET NO. 3 OF 10			

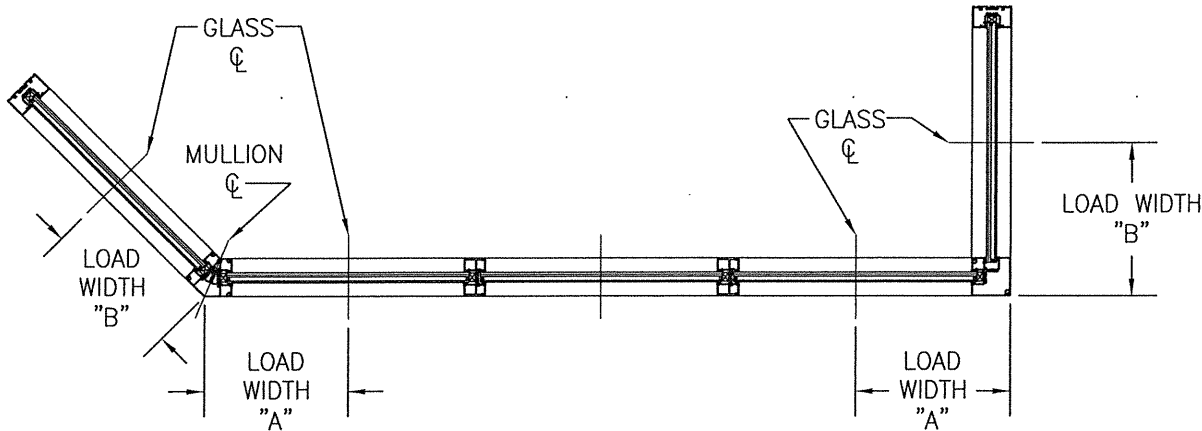
CORNER MULLION PRESSURE TABLE (135 DEG. CORNER)		
MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH "A" OR "B" (IN.)	ALLOWABLE PRESSURE (PSF)
121 1/4	33.5	38.7
	30.5	42.5
	27.5	47.1
	24.5	52.9
	21.5	60.2
	18.5	70.0
109 1/4	33.5	47.6
	30.5	52.3
	27.5	58.0
	24.5	65.1
	21.5	70.0
97 1/4	33.5	60.1
	30.5	66.0
	27.5	70.0
90	33.5	70.0

(1) DIMENSIONS SHOWN ARE +/-1/4".
(2) LOAD WIDTH DIMENSION TO BE CONSIDERED FOR USE WITH THIS LOAD TABLE SHALL BE THE GRATER VALUE OF "A" & "B".



EXTERIOR ELEVATION:
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY WITH 90° AND/OR 135° CORNERS

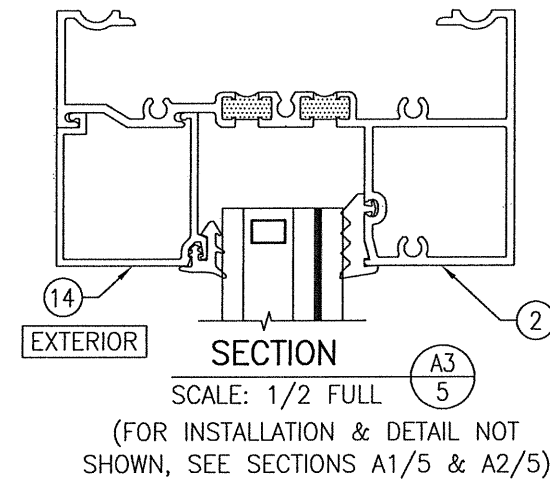
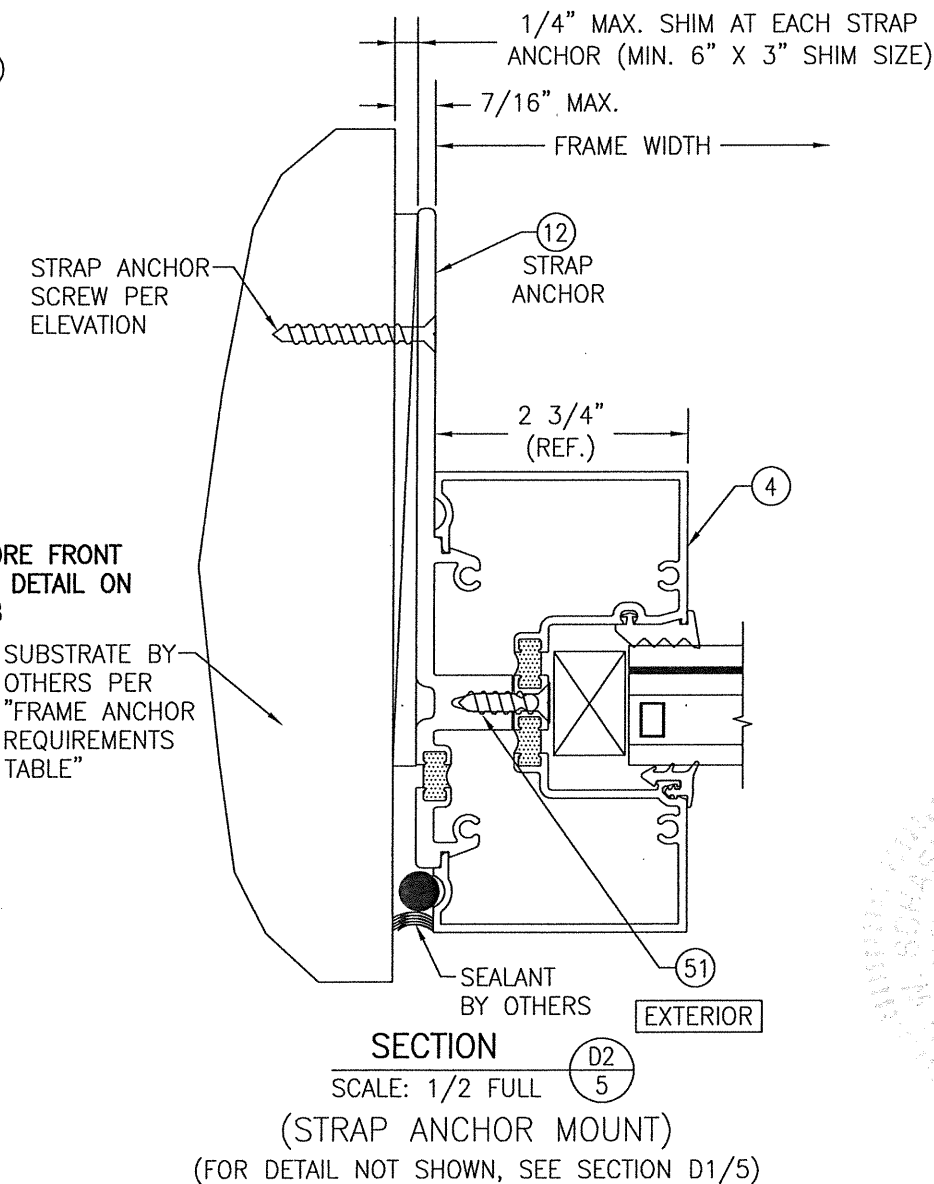
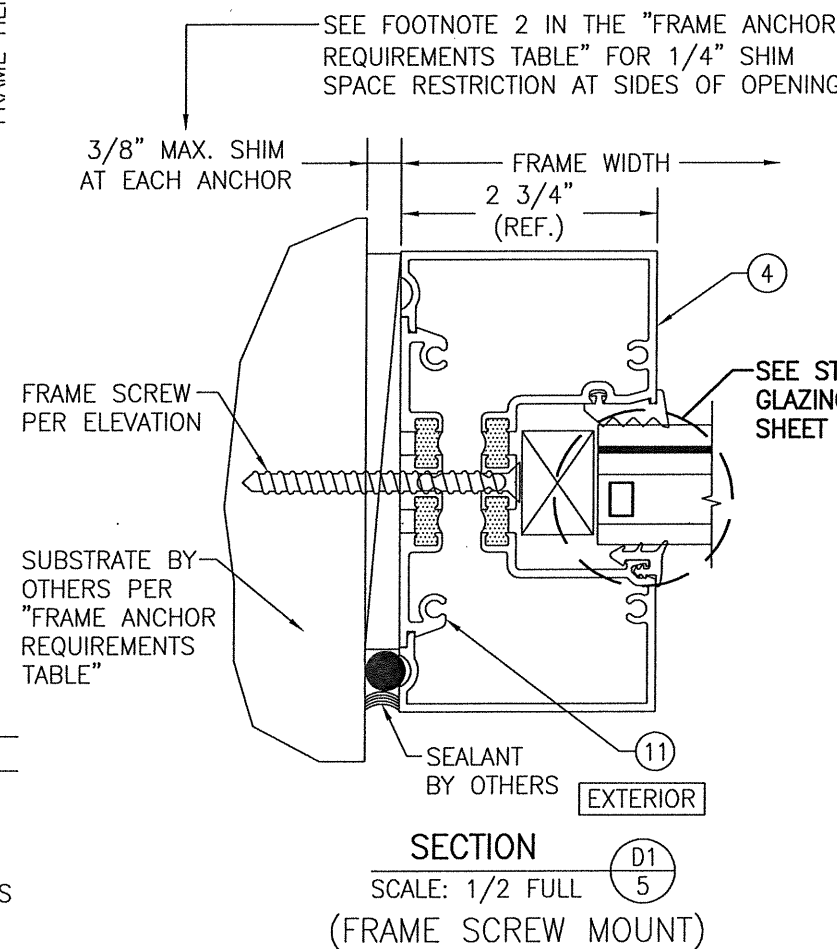
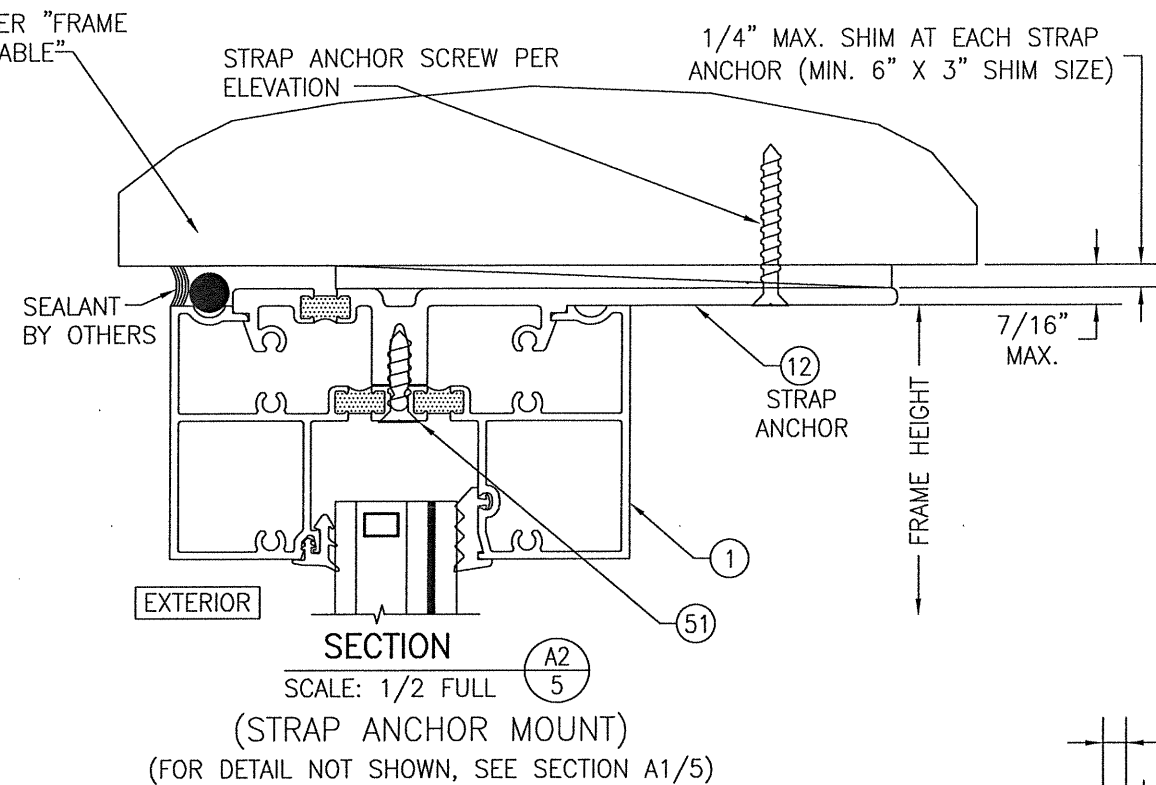
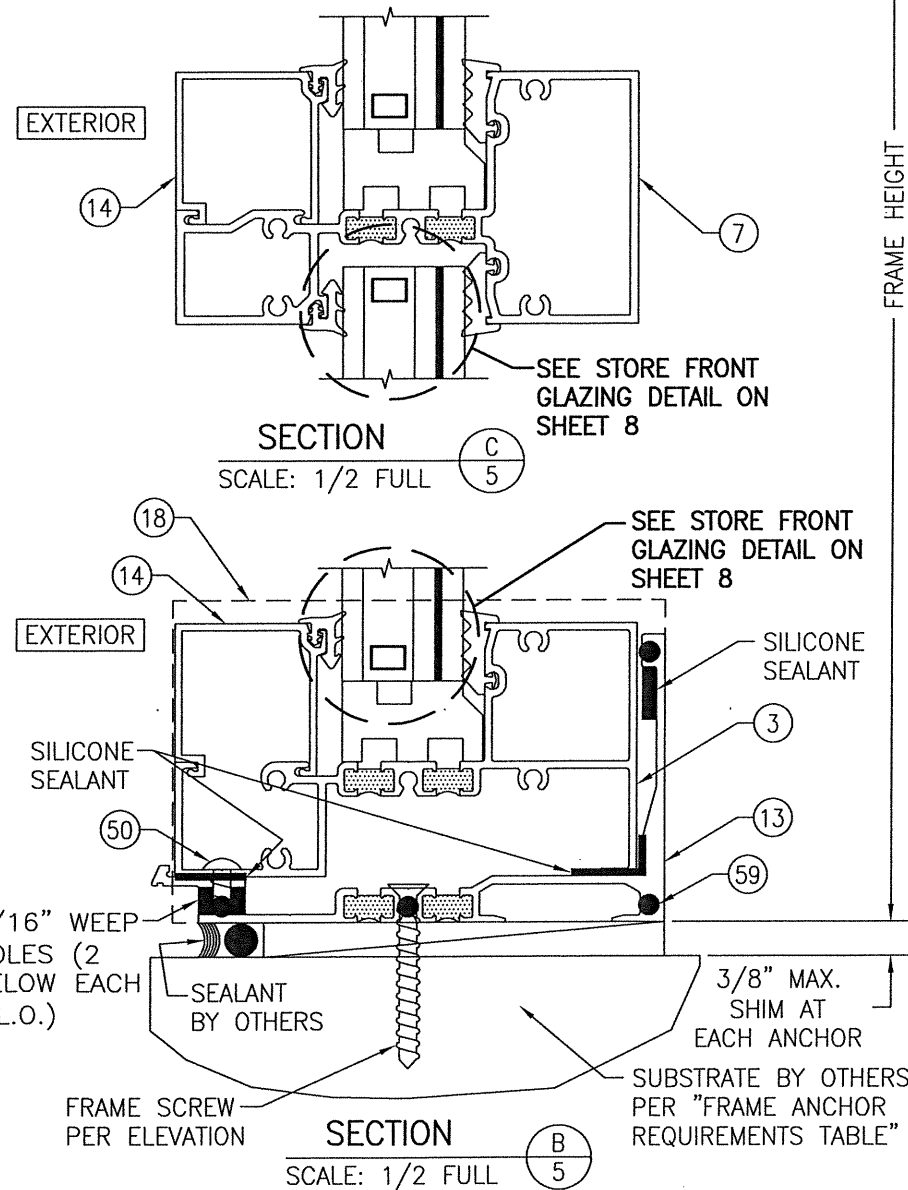
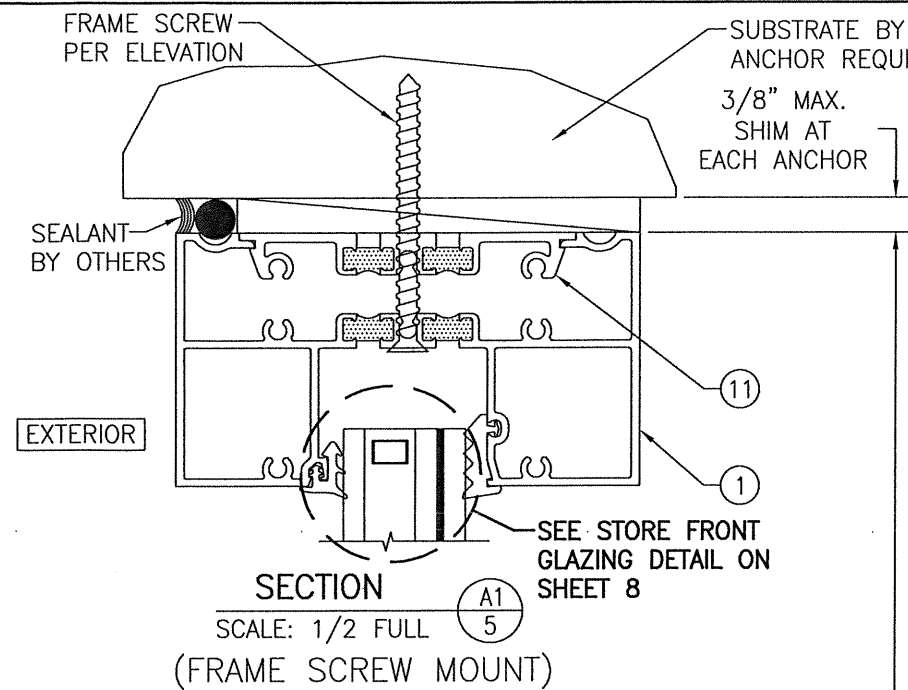
SCALE: 1/2" = 1'-0"
(FOR ALL DETAIL INSTALLATION & MULLION LOAD TABLES NOT SHOWN, SEE LOAD TABLES & ELEVATIONS ON SHEETS 1, 2 & 3)
(WHILE SHOWN WITH BOTH 90° AND 135° CORNERS, ONE OR BOTH MAY APPLY ON ANY JOB)
(PROJECT-OUT WINDOWS ALSO APPLY TO THIS ELEVATION)



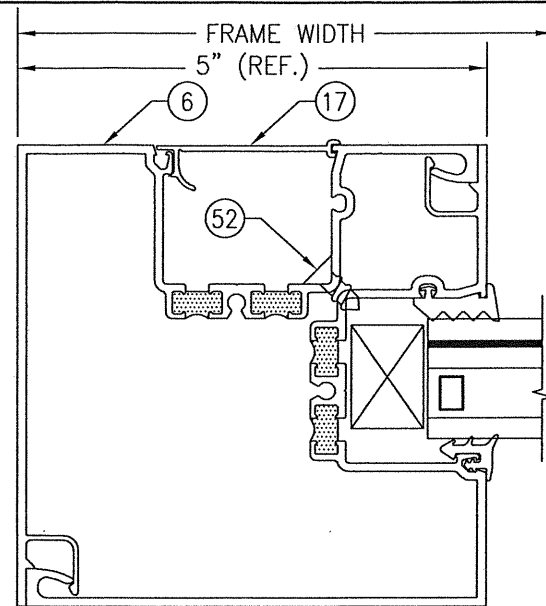
CORNER MULLION PRESSURE TABLE (90 DEG. CORNER)		
MAXIMUM FRAME HEIGHT DIMENSION (IN.)	MAXIMUM LOAD WIDTH "A" OR "B" (IN.)	ALLOWABLE PRESSURE (PSF)
121 1/4	35	40.0
	32	43.8
	29	48.3
	26	53.8
	23	60.9
	20	70.0
109 1/4	35	49.3
	32	53.9
	29	59.5
	26	66.3
	23	70.0
97 1/4	35	62.2
	32	68.0
	29	70.0
90	35	70.0

(1) DIMENSIONS SHOWN ARE +/-1/4".
(2) LOAD WIDTH DIMENSION TO BE CONSIDERED FOR USE WITH THIS LOAD TABLE SHALL BE THE GRATER VALUE OF "A" & "B".

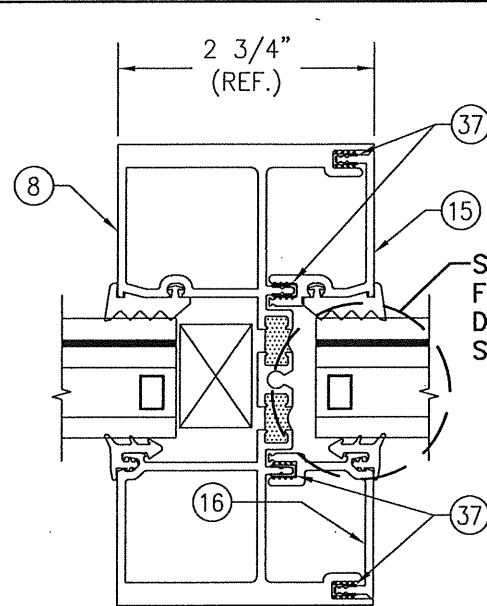
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PLOT: 1-24		DATE: 08/28/11	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: IR501T & IR501UT ALUMINUM LARGE MISSILE IMPACT STORE FRONT SYSTEM (DRY GLAZED) CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT, NORCROSS, GA 30092 770-449-5555			
CERTIFICATION JUL 16 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1760 REV. E SHEET NO. 4 OF 10	



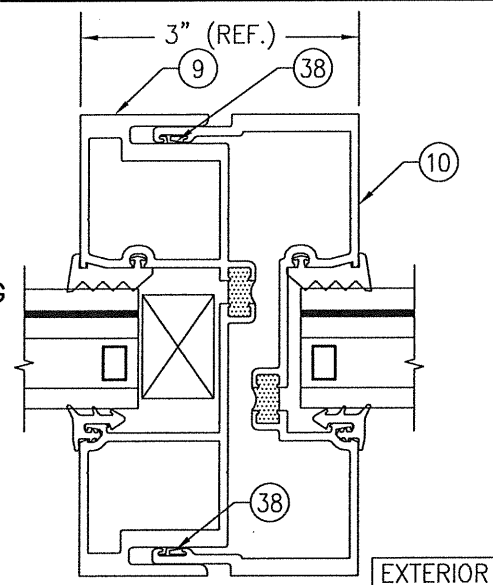
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PLOT: 1=2	DATE: 06/28/11
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: IR501T & IR501UT ALUMINUM LARGE MISSILE IMPACT STORE FRONT SYSTEM (DRY GLAZED)	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: JUL 16 2020	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1760	REV. E
SHEET NO. 5 OF 10	



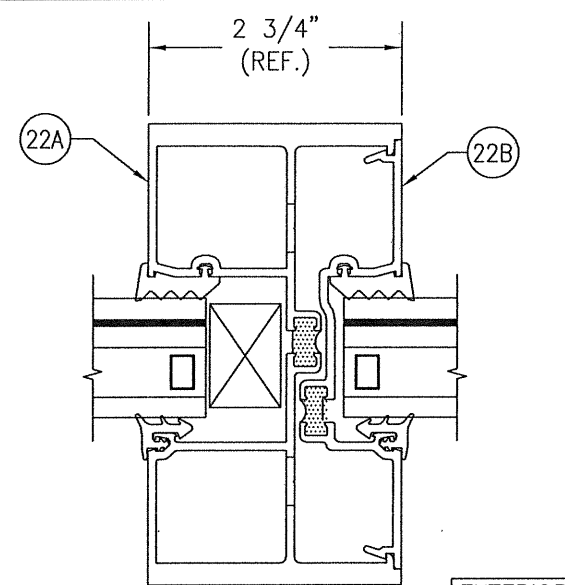
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6



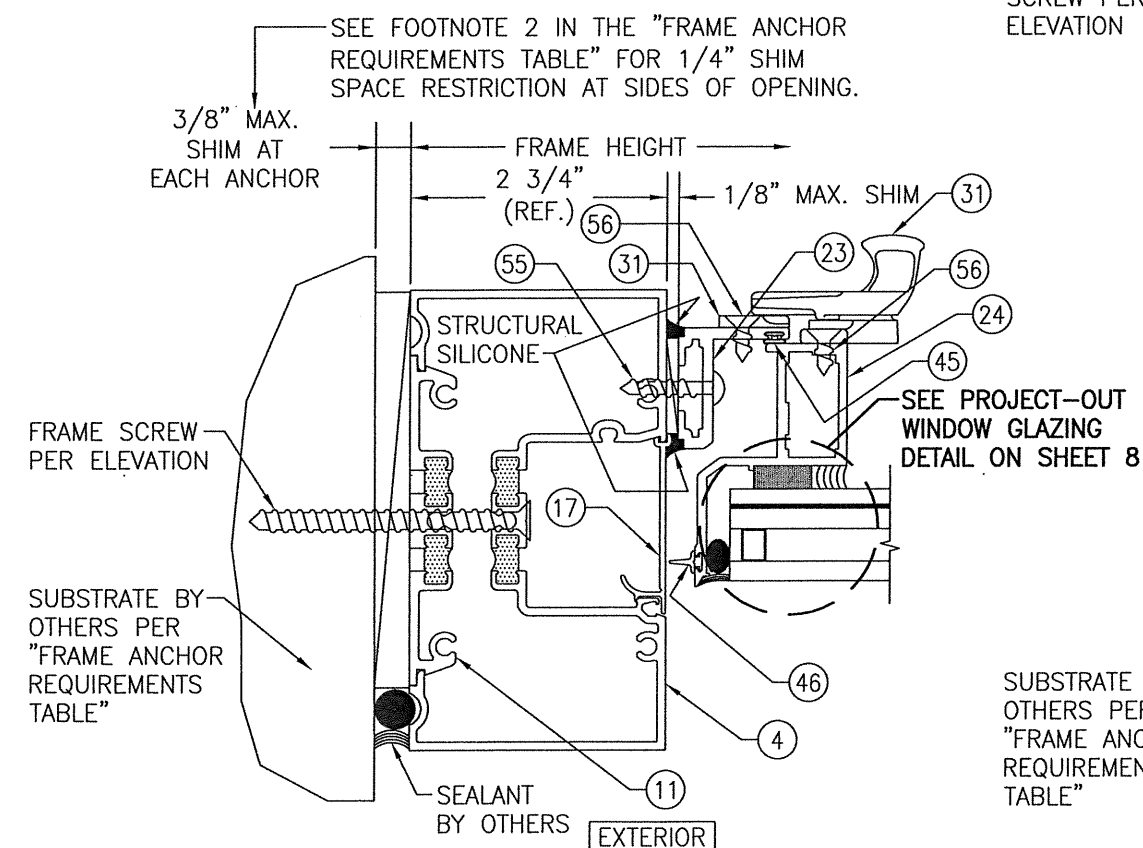
SECTION E1
SCALE: 1/2 FULL
6
(STANDARD MULLION)



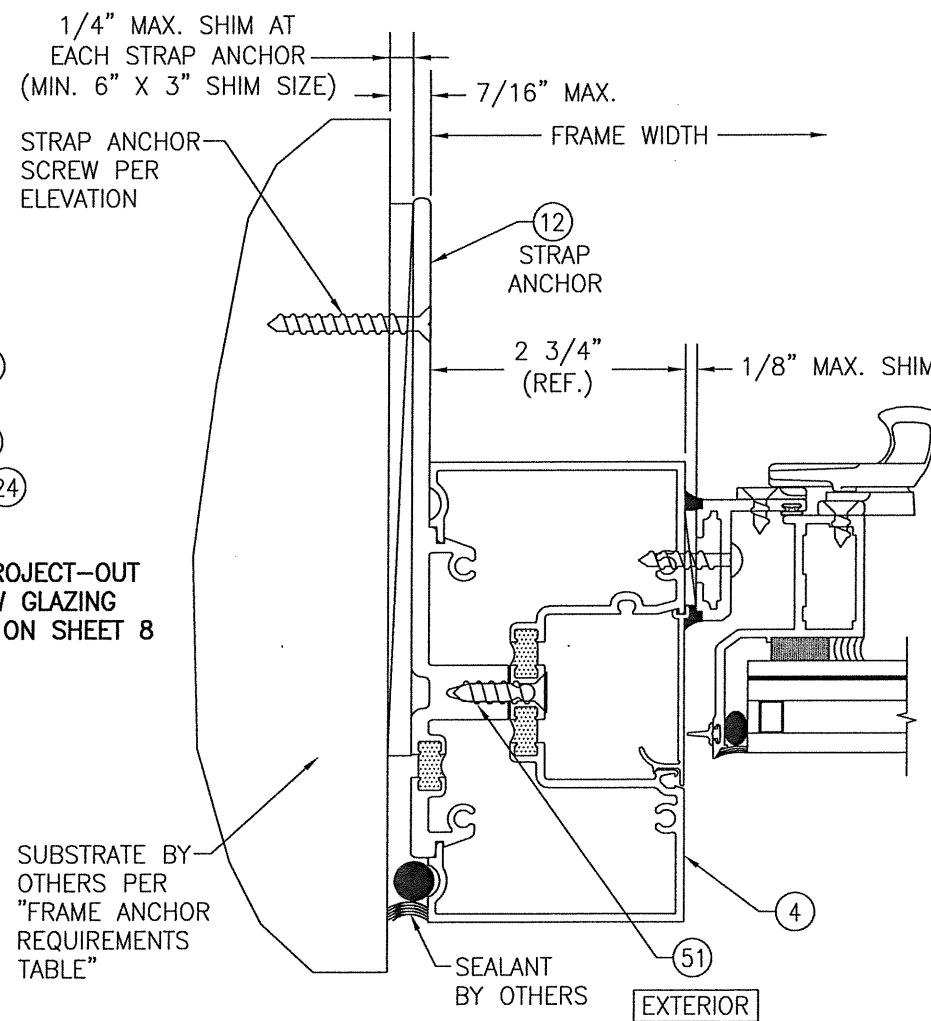
SECTION E2
SCALE: 1/2 FULL
6
(EXPANSION MULLION)
(FOR DETAIL NOT SHOWN, SEE SECTION E1/6)



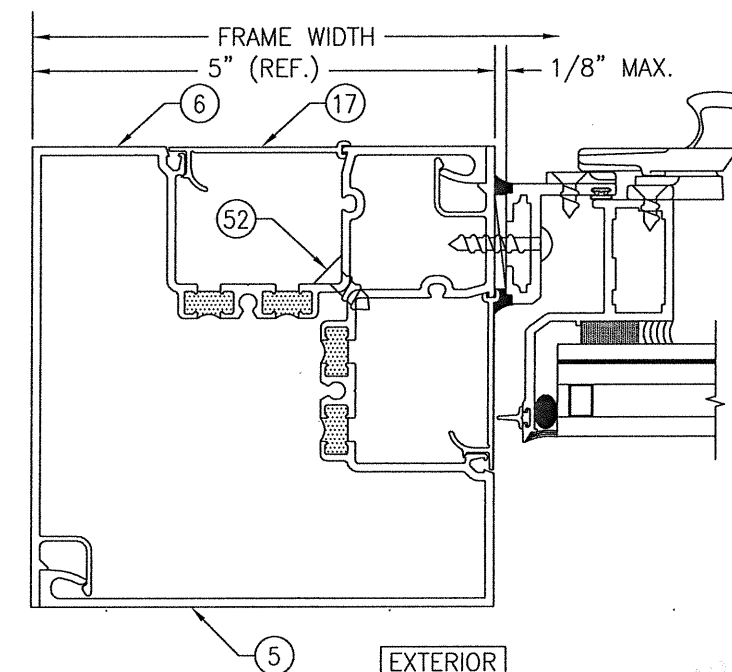
SECTION E3
SCALE: 1/2 FULL
6
(2 PIECE MULLION)
(FOR DETAIL NOT SHOWN, SEE SECTION E1/6)



SECTION F1
SCALE: 1/2 FULL
6
(FRAME SCREW MOUNT)

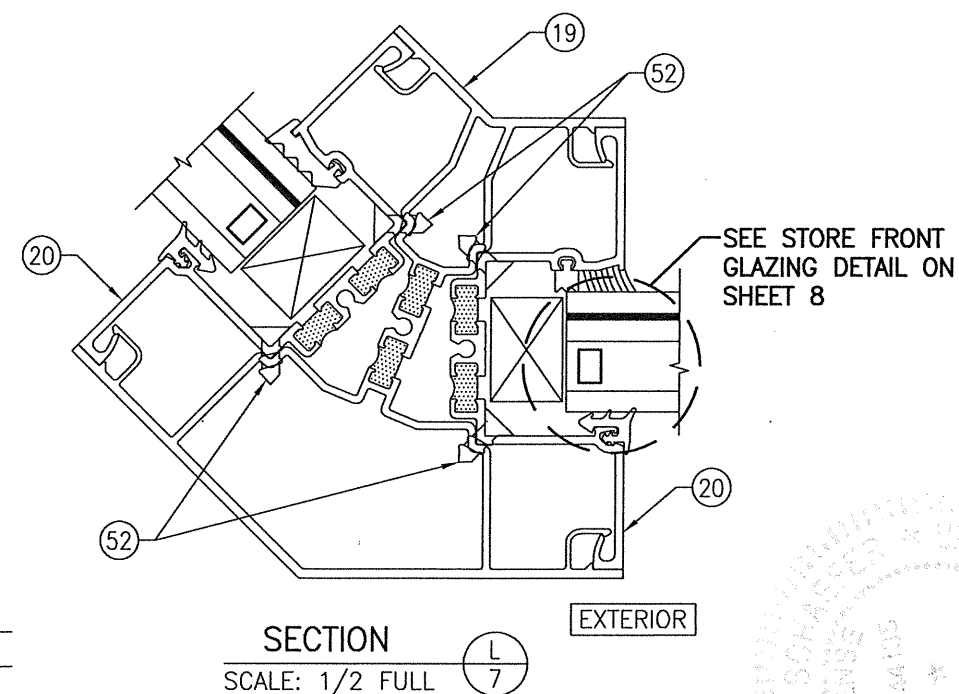
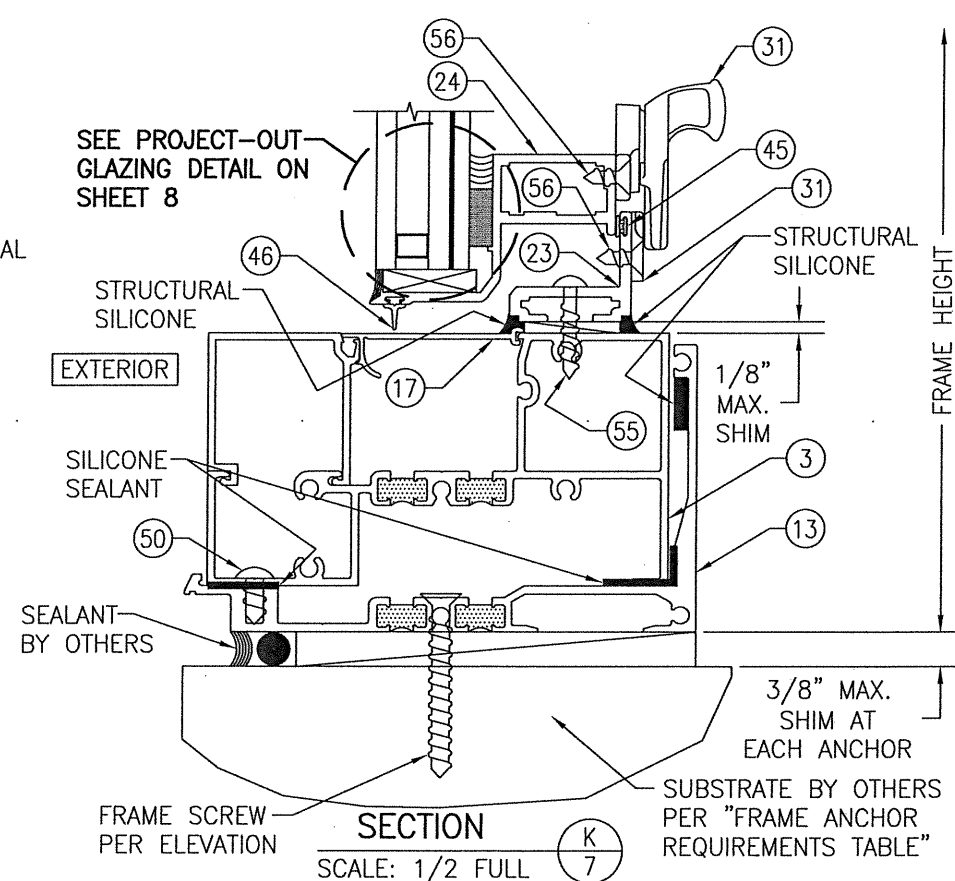
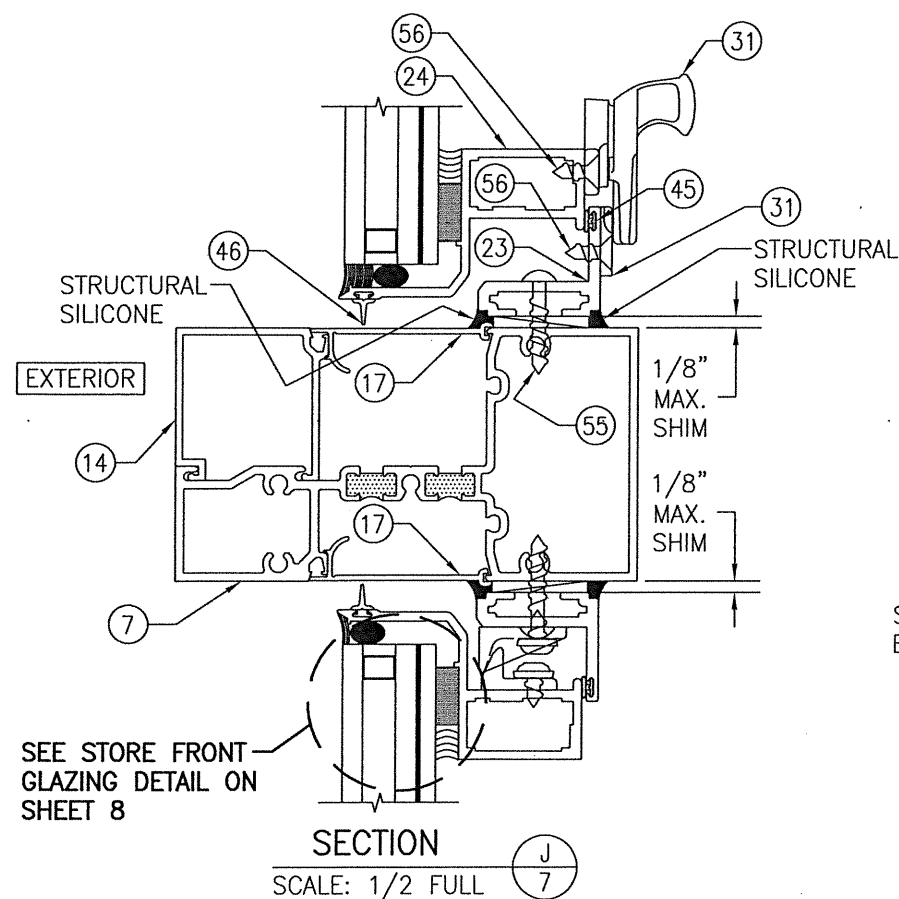
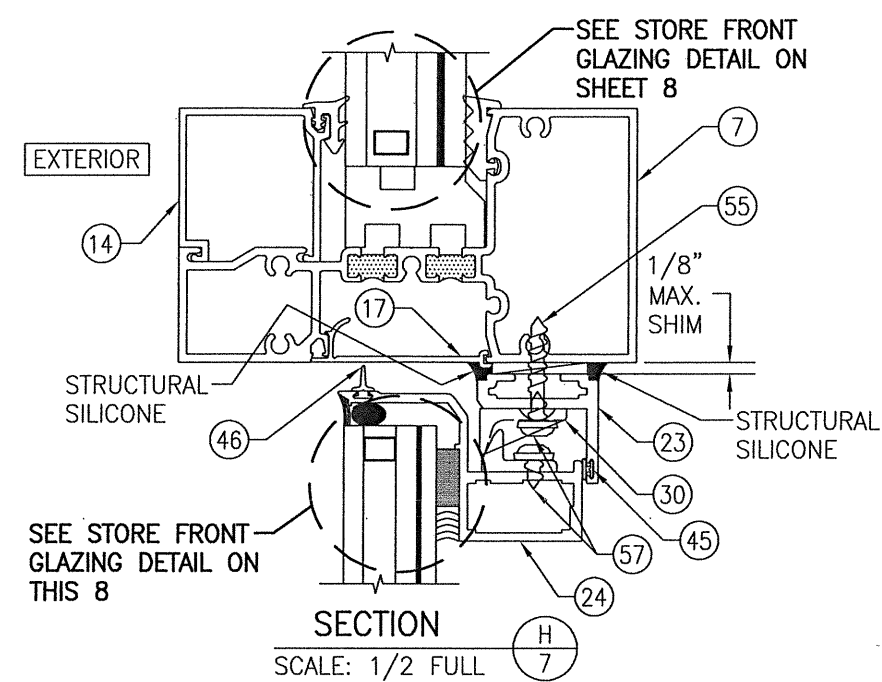
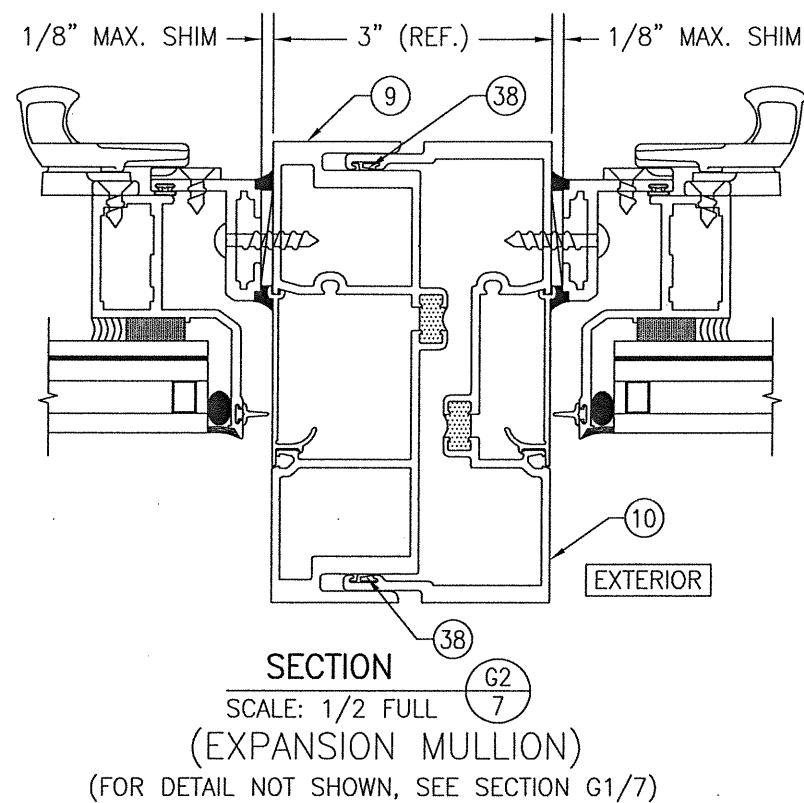
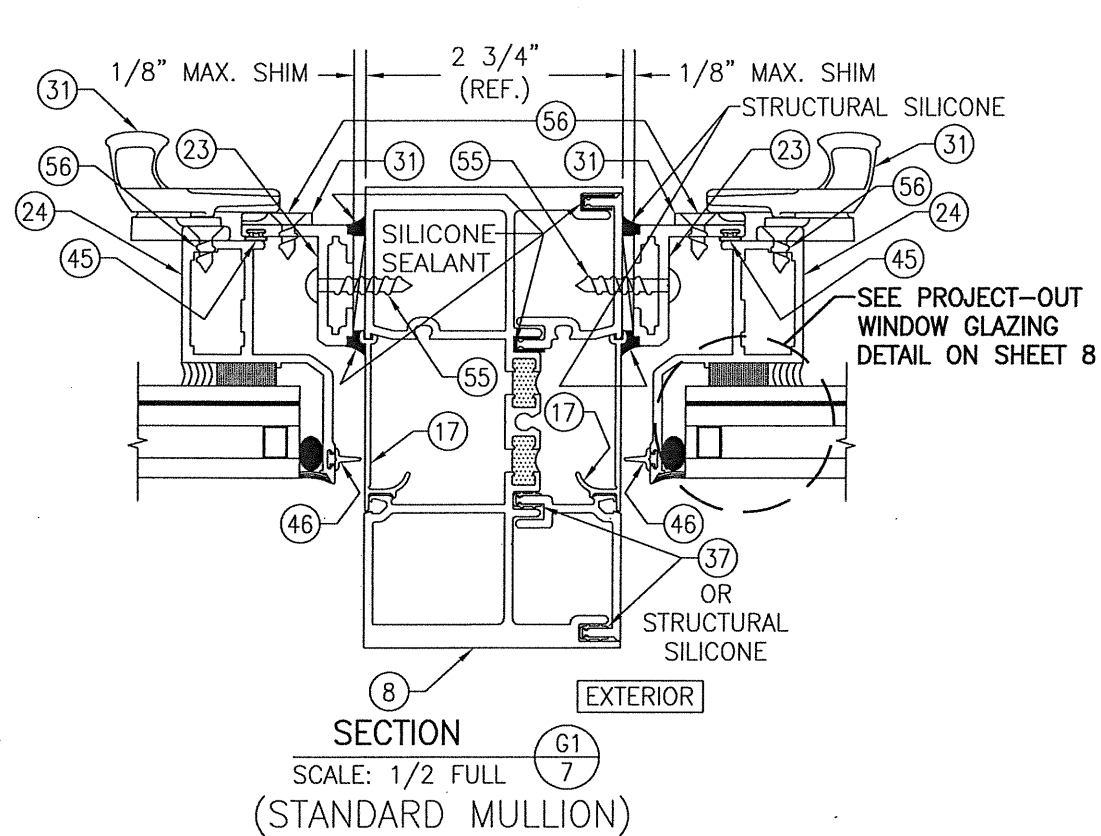


SECTION F2
SCALE: 1/2 FULL
6
(STRAP ANCHOR MOUNT)
(FOR DETAIL NOT SHOWN, SEE SECTION F1/6)

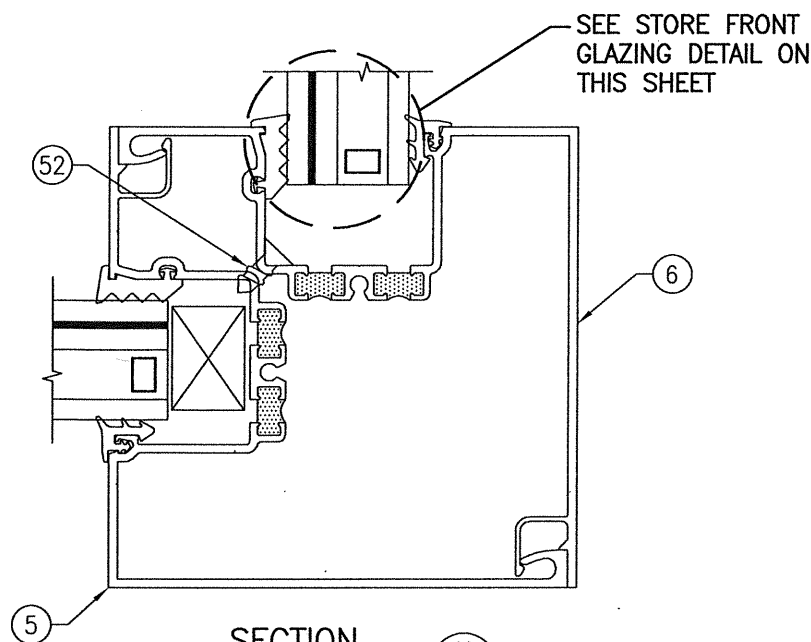


SECTION F3
SCALE: 1/2 FULL
6
(FOR DETAIL NOT SHOWN, SEE SECTION F1/6)

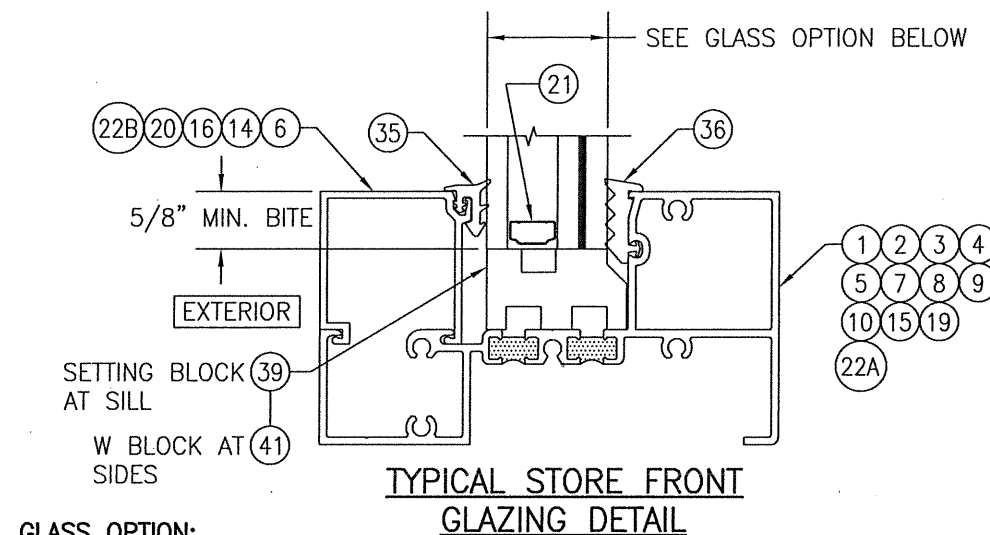
DRAWING NO. 1760	REV. E	DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
		PLOT: 1=2		DATE: 06/28/11	
SHEET NO. 6 OF 10	CERTIFICATION JUL 16 2020 WARREN W. SCHAEFER, P.E.	DRAWING TITLE IR501T & IR501UT ALUMINUM LARGE MISSILE IMPACT STORE FRONT SYSTEM (DRY GLAZED)			
		CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
		NO.	REVISION DESCRIPTION	BY	DATE



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.		
PLOT: 1=2		DATE: 06/28/11		
NO.	REVISION	DESCRIPTION	BY	DATE
DRAWING TITLE IR501T & IR501UT ALUMINUM LARGE MISSILE IMPACT STORE FRONT SYSTEM (DRY GLAZED)				
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555				
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424				
CERTIFICATION JUL 16 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1760		REV. E		
SHEET NO. 7 OF 10				



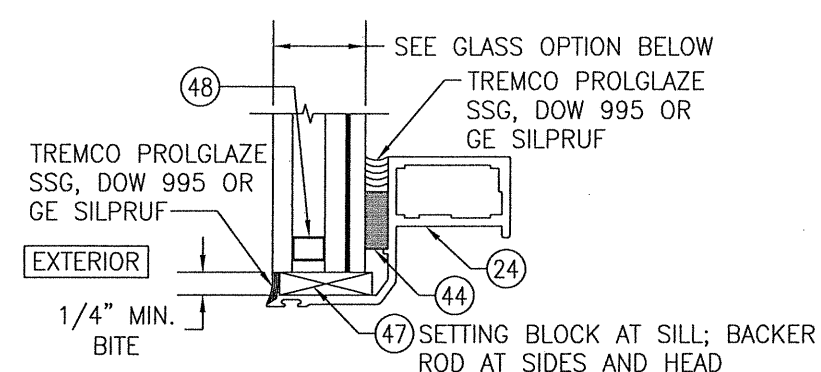
SECTION
SCALE: 1/2 FULL M
8



GLASS OPTION:

OPTION 1: 1 5/16" THICK I.G. GLASS (1/4" HT. ST. OR TEMP. EXTERIOR; 1/2" SPACER/1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST. INTERIOR)

NOTE: THE SINGLE PANE OF THE IG GLASS SHALL BE TEMPERED WHEN REQUIRED TO CONFORM WITH THE FLORIDA BUILDING CODE FOR USE OF GLASS IN HAZARDOUS LOCATIONS.

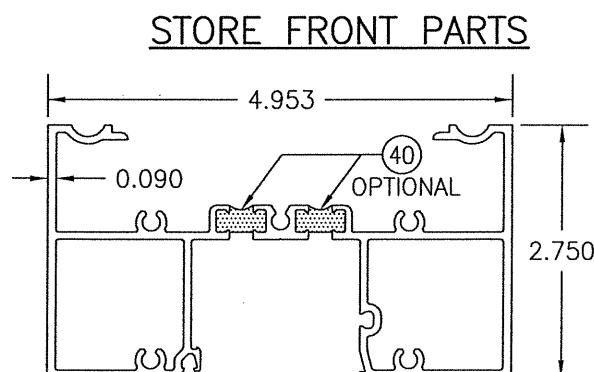


**TYPICAL PROJECT-OUT
WINDOW GLAZING DETAIL**

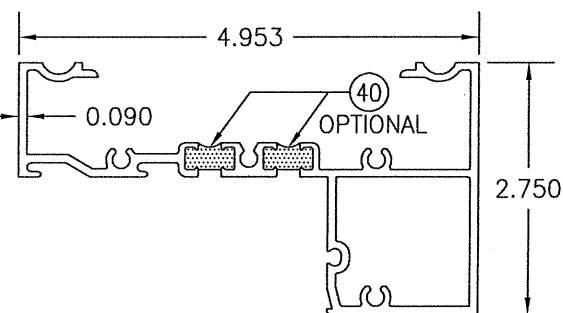
GLASS OPTION:

OPTION 1: 1" THICK I.G. GLASS (3/16" TEMP. EXTERIOR; 3/8" SPACER/3/16" HT. ST./0.09 DUPONT BUTACITE PVB/3/16" HT. ST. INTERIOR)

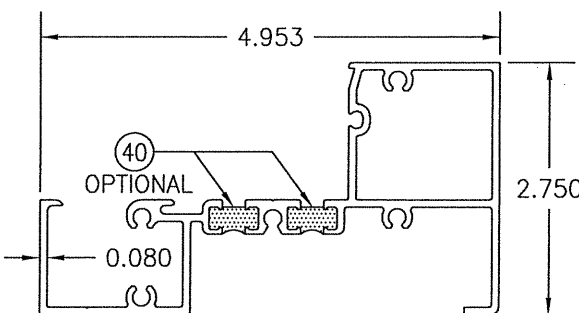
STORE FRONT PARTS



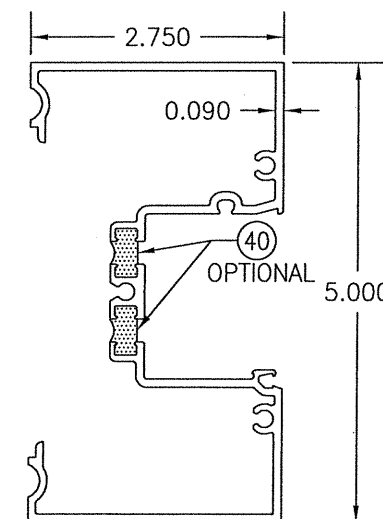
① HEAD FRAME (OPTION 1)



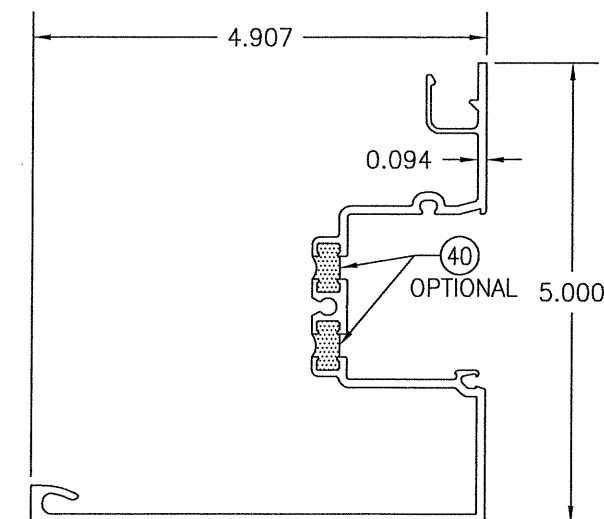
② HEAD FRAME (OPTION 2)



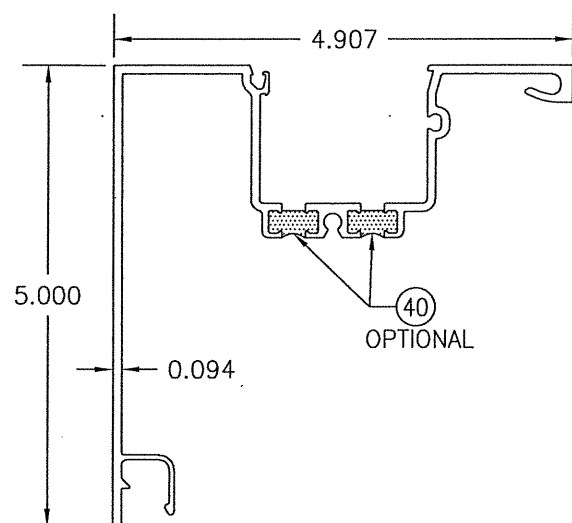
③ SILL FRAME



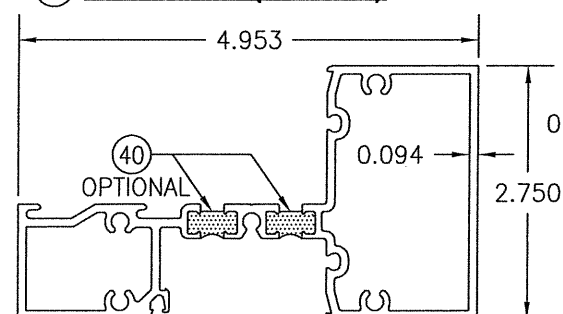
④ JAMB FRAME (OPTION 1)



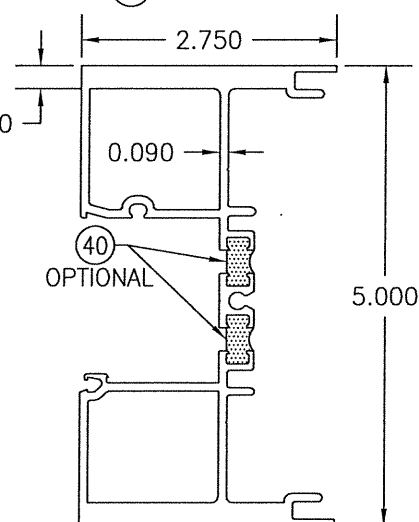
⑤ JAMB FRAME (OPTION 2) & 90° CORNER
MULLION (PART 1 OF 2)



⑥ JAMB FRAME (OPTION 2) & 90°
CORNER MULLION (PART 1 OF 2)



⑦ MID-RAIL



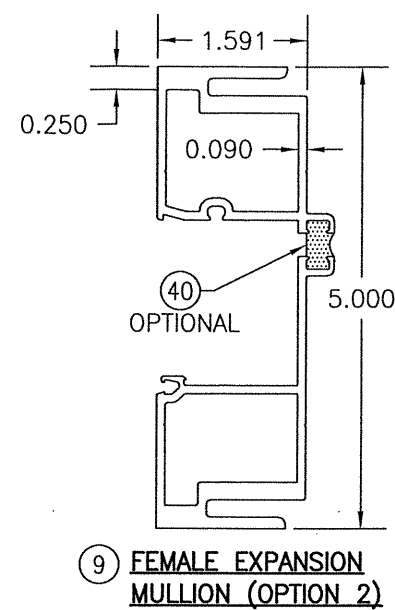
⑧ STANDARD MULLION
(OPTION 1)

DEBRIDGING NOTE: IR501T CONSISTS OF PART MEMBERS WITH JUST THE OUTER CAVITY THERMALLY POURED AND DEBRIDGED. IR501UT CONSISTS OF PART MEMBERS WITH BOTH THE INNER & OUTER CAVITIES THERMALLY POURED AND DEBRIDGED. PARTS SHOWN REFLECT THE IR501UT CONDITION WITH BOTH CAVITIES DEBRIDGED.

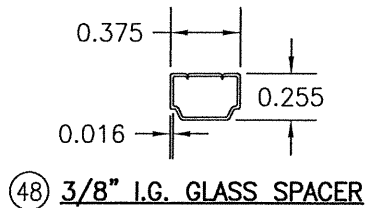
CERTIFICATION  WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE		IR501T & IR501UT ALUMINUM LARGE MISSILE IMPACT STORE FRONT SYSTEM (DRY GLAZED)		DRAWN BY: W.R.M.		CHECKED BY: W.W.S.		
	CONSULTANTS		W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		PLOT: 1=2		DATE: 06/28/11		
	MANUFACTURER		KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555		NO.	REVISION	DESCRIPTION	BY	DATE
DRAWING NO. 1760		REV. F		SHEET NO. 8 OF 10					

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

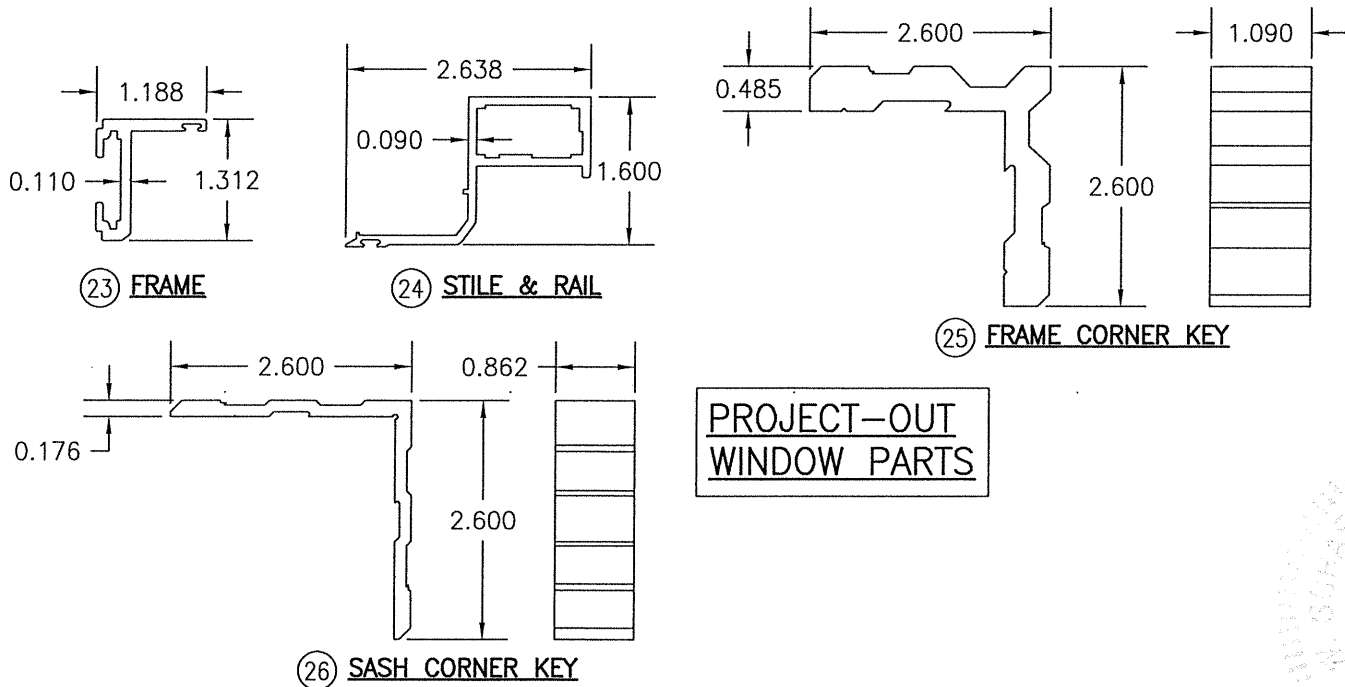
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
STORE FRONT PARTS		
1	HEAD FRAME (OPTION 1)	6063-T6 ALUMINUM
2	HEAD FRAME (OPTION 2)	6063-T6 ALUMINUM
3	SILL FRAME	6063-T6 ALUMINUM
4	JAMB FRAME (OPTION 1)	6063-T6 ALUMINUM
5	JAMB FRAME (OPTION 2) & 90° CORNER MULLION (PART 1 OF 2)	6063-T6 ALUMINUM
6	JAMB FRAME (OPTION 2) & 90° CORNER MULLION (PART 2 OF 2)	6063-T6 ALUMINUM
7	MID-RAIL	6063-T6 ALUMINUM
8	STANDARD MULLION (OPTION 1)	6063-T6 ALUMINUM
9	FEMALE EXPANSION MULLION (OPTION 2)	6063-T6 ALUMINUM
10	MALE EXPANSION MULLION (OPTION 2)	6063-T6 ALUMINUM
11	FRAME SCREW FILLER	6063-T6 ALUMINUM
12	STRAP ANCHOR	6063-T6 ALUMINUM
13	SUB-SILL	6063-T6 ALUMINUM
14	GLAZING BEAD/FRAME FILLER	6063-T6 ALUMINUM
15	INTERIOR MULLION INSERT	6063-T6 ALUMINUM
16	EXTERIOR MULLION INSERT	6063-T6 ALUMINUM
17	POCKET FILLER	ABS PLASTIC
18	SILL END DAM PLATE (5.281"X3.5"X0.062" THICK)	PLASTIC
19	135° CORNER MULLION	6063-T6 ALUMINUM
20	DEEP POCKET MULLION INSERT	6063-T6 ALUMINUM
21	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
22A	2 PIECE MULLION (KAWNEER #575-523)	6063-T6 ALUMINUM
22B	2 PIECE MULLION FILLER (KAWNEER #575-524)	6063-T6 ALUMINUM
PROJECT-OUT GLASS VENT PARTS		
23	FRAME	6063-T6 ALUMINUM
24	STILE & RAIL	6063-T6 ALUMINUM
25	FRAME CORNER KEY	6063-T6 ALUMINUM
26	SASH CORNER KEY	6063-T6 ALUMINUM
PROJECT-OUT GLASS VENT HARDWARE		
29	4" BAR HINGE	ADVANTAGE 316-AT
30	SNUBBER DRIVER & VENT DEFLECTION STOP	KENCO PLASTICS; NYLON WITH GLASS FILL
31	CAM LOCK & LOCK STRIKE	BRONZE CRAFT US-25-D; WHITE BRONZE
3 REQ'D AT BOTTOM RAIL; 1 REQ'D EACH STILE		



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
STORE FRONT SEALS & SEALANTS		
35	GLAZING GASKET	TREMCO TR-14815E CLOSED CELLULAR EPDM (70 DUROMETER)
36	INTERIOR GLAZING GASKET (KAWNEER #127-121)	SEMPERIT DENSE EPDM (DUROMETER = SPONGE)
37	MATING GASKET	POLYPROPYLENE
38	FIXED GASKET	KRP POLYPROPYLENE & TPV
39	SETTING BLOCK	EPDM (DUROMETER = 85 +/-5)
40	OPTIONAL POURED IN DEBRIDGING/THERMAL BREAK	STRUCTURAL THERMAL BARRIER POLYMER (UNIVERSAL NO-TAPE 303-12T BY AZON)
41	W BLOCK	EPDM (DUROMETER = 85 +/-5)
PROJECT-OUT GLASS VENT SEALS & SEALANTS		
44	GLAZING TAPE	POLYURETHANE FOAM
45	BULB GASKET	AMESBURY #32005 POLYPROPYLENE
46	KERF GASKET	ASTRO PLASTICS #C-9131 POLYPROPYLENE & SANDOPRENE
47	SETTING BLOCK	EPDM (DUROMETER = 85 +/-5)
48	3/8" I.G. SPACER	3005 OR 3105 ALUMINUM
STORE FRONT FASTENERS		
50	1/4-20 X 7/16" PHTC	QTY = 3 EACH SIDE OF EACH VERTICAL FRAMING MEMBER 2" FROM THE VERTICAL MEMBER & 2.5" O.C.
51	1/4-20 X 1" PHTC TYPE "D" OR "F"	QUANTITY TO MATCH THAT OF STRAP ANCHOR INSTALLATION SCREWS (SPACED 2.5" O.C.)
52	1/4-20 X 5/8" FHTC TYPE "D"	WITHIN 6" FROM MULL ENDS & 18" MAX. O.C.
PROJECT-OUT GLASS VENT FASTENERS		
55	NO. 10 X 1" PHTF "AB"	WITHIN 6" FROM EA. END & 18" MAX. O.C.
56	NO. 10 X 1/2" FHTF TYPE "B"	2 PER EACH CAM LOCK & KEEPER
57	NO. 10-16 X 5/16" CRIMPTITE TYPE "B"	2 PER EACH SNUBBER DRIVER & KEEPER
58	NO. 10-16 X 7/16" PHTF TYPE "B"	3 PER HINGE BAR
59	NO. 12 X 1" PHTF "AB"	4 PER END DAM



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CERTIFICATION JUL 16 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1760	REV. F
SHEET NO. 10	OF 10