GENERAL NOTES:

1. THESE STORE FRONT SYSTEMS HAVE 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. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH ASTM E330, E283, E331, E1886 & E1996 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE STORE FRONT SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS STORE FRONT SYSTEM.
7. ALL ANCHORS SECURING STORE FRONT FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. 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 INTERNATIONAL BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE SEPARATED OR COATED AS REQUIRED TO AVOID CORROSION OF EITHER MATERIAL.

CORNER & FRAME END CONSTRUCTION:

FRAME HEAD CORNER (APPLICABLE TO ITEM #1A): HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME HEAD CORNER (APPLICABLE TO ITEM #1B): HEAD IS MITER CUT, BUTTED TO SIDE, FASTENED WITH TWO(2) NO. 12 X 1 1/2" PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE SILL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME DOOR JAMB SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 1 JAMB PIVOT ASSEMBLY. EACH PIVOT ASSEMBLY WAS FASTENED TO TO THE SIDE WITH THREE(3) NO. 12-24 X 5/8" FHMS. THE THRESHOLD IS THEN FASTENED TO PIVOT ASSEMBLY WITH TWO(2) NO. 12-24 X 3/8" FHMS & SEALED WITH SILICONE.

HORIZONTAL FRAME MULLION END (APPLICABLE TO ITEMS #6A & #7): HORIZONTAL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" SS PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE MULLION MEMBER SCREW SPLINES & SEALED WITH SILICONE.

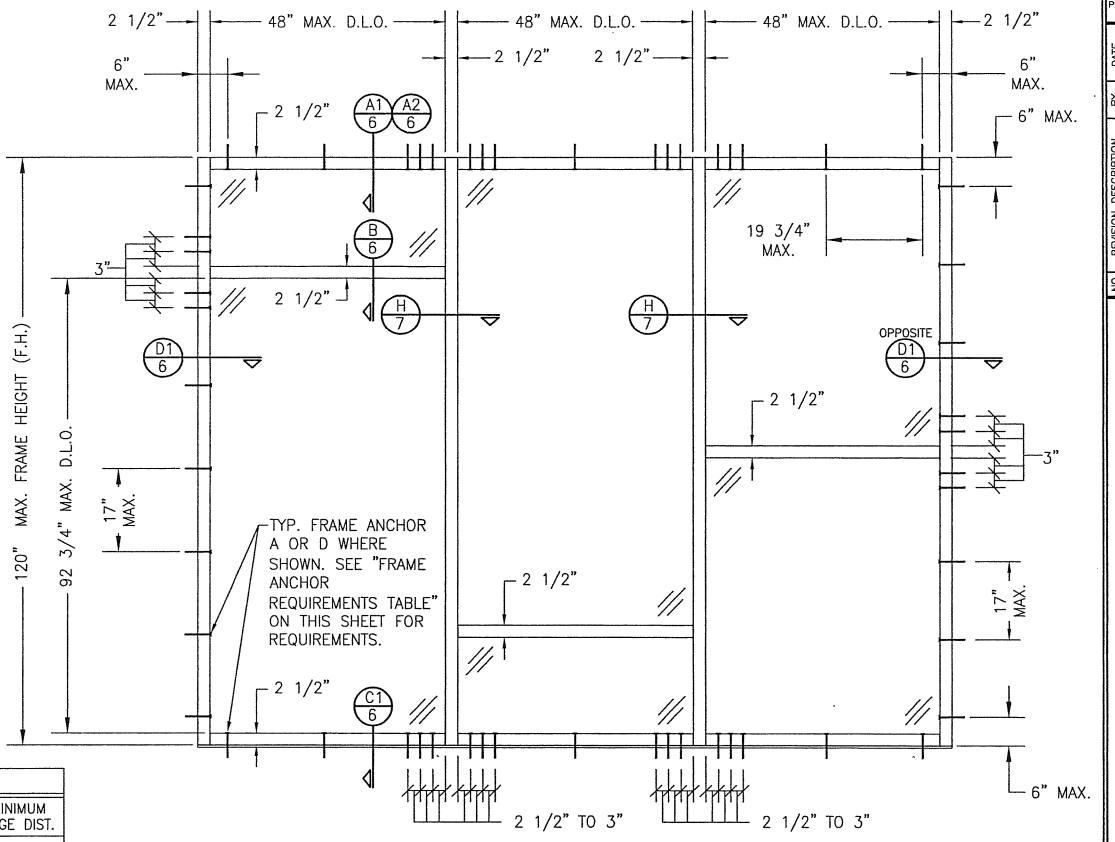
HORIZONTAL FRAME MULLION END (APPLICABLE TO ITEM #6B): HORIZONTAL IS SQUARE CUT, BUTTED TO SIDE, JOINED VIA A SHEAR BLOCK (PART #21). THE SHEAR BLOCK IS FASTENED TO THE VERTICAL FRAME MEMBER WITH FOUR(4) NO. 12 X 1 7/8" FHTF TYPE B SCREWS. THE HORIZONTAL MEMBER IS FASTENED TO THE SHEAR BLOCK WITH THREE(3) NO. 12 X 1" FHTF TYPE AB SCREWS. EACH CORNER IS SEALED WITH DOW 795 SILICONE SEALANT.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE 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, 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.

FRAME ANCHOR REQUIREMENTS TABLE

ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS SCREWS	1 1/4"	3/4"
B	MIN. 1/8" THICK A36 STEEL (MIN. Fy = 36 ksi)	(2) 1/4-20 SELF DRILLING/TAPPING SCREW	FULL	3/4"
C	MIN. 3000 P.S.I. CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
D	MIN. 16 GA. 33 KSI METAL STUD	(2) 1/4-20 SELF DRILLING/TAPPING SCREW	FULL	1/2"
E	MIN. C90 BLOCK	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
(4) F	MIN. 3000 P.S.I. CONCRETE	(3) 3/8" WEDGE/SLEEVE ANCHOR	2 1/2"	3"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
(2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORRISION RESISTANT STEEL
(3) WEDGE/SLEEVE ANCHORS SHALL BE RAMSET/RED HEAD DYNABOLT, HILTI KWIK-BOLT 3, OR POWERS RAWL POWER BOLT (STEEL OR S.S.)
(4) ANCHOR TYPE "F" IS ONLY APPLICABLE FOR USE WITH THE SILL ANCHOR BLOCK AT THE VERTICAL DOOR MULLION BOTTOM END.



EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY
(WITH ANCHOR TYPE "A" OR "D" TO WOOD OR METAL STUD)

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

HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED PROVIDING D.L.O. DOES NOT EXCEED 48" WIDE AT EACH PANEL. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

ALLOWABLE DESIGN PRESSURE
+/-65 PSF

STATE OF TEXAS · WARREN W. SCHAEFER · 113497 · LICENSED PROFESSIONAL ENGINEER

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.

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 01/29/13

NO.	REVISION DESCRIPTION	BY	DATE

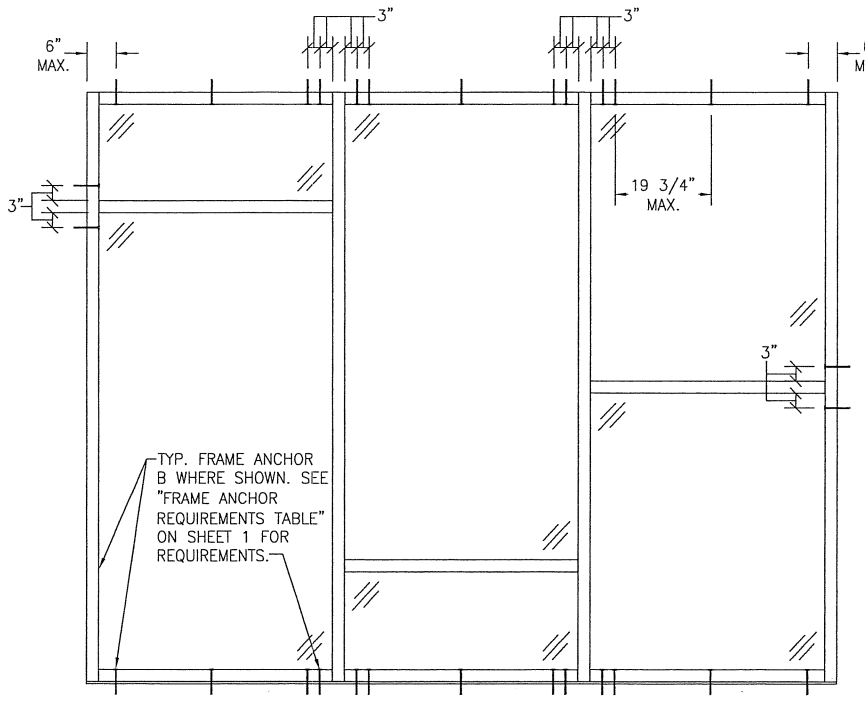
DRAWING TITLE: IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

JOB INFORMATION: KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CERTIFICATION: MAR 04 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

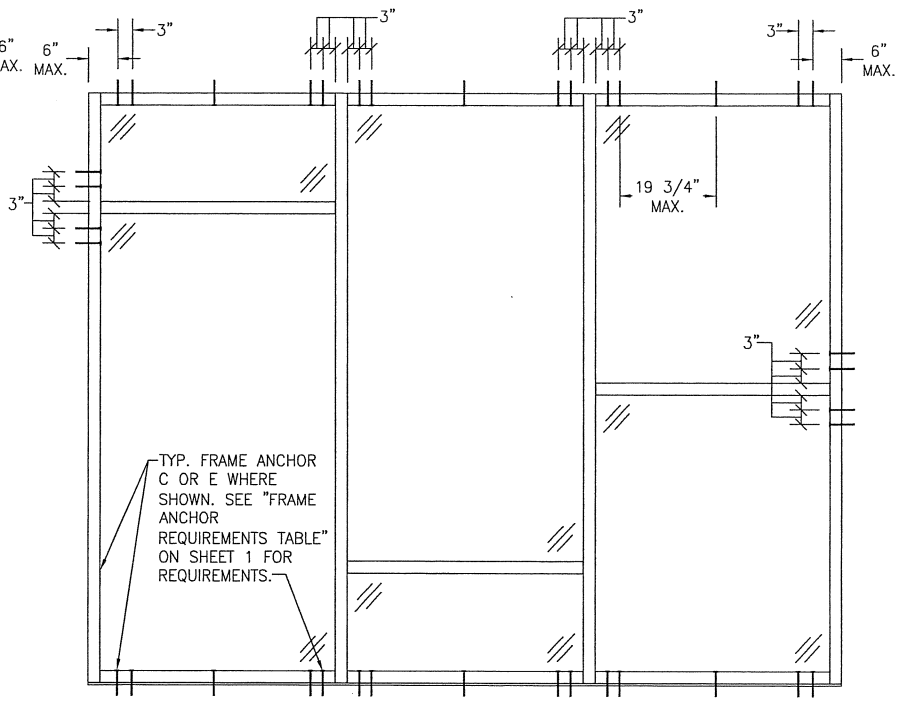
DRAWING NO. 1461T | REV.
SHEET NO. 1 OF 9



EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY
(WITH ANCHOR TYPE "B" TO STEEL)

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

FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 1.



EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY
(WITH ANCHOR TYPE "C" & "E" TO CONCRETE/CMU)

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

FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 1.

NOTE: CMU IS APPLICABLE ONLY AT SIDES.

ALLOWABLE DESIGN PRESSURE
+/-65 PSF

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 01/29/13

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JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

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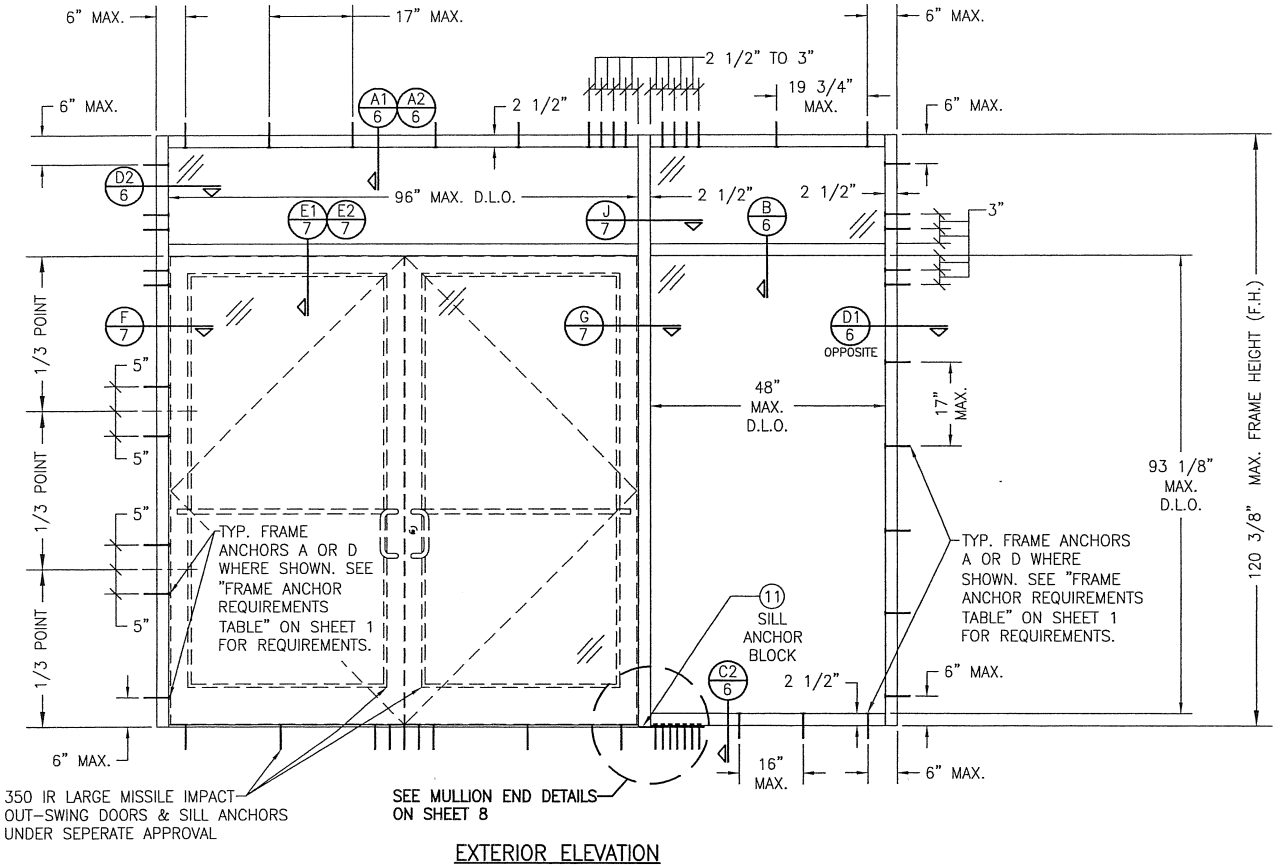
SHEET NO. 2 OF 9



EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM
(WITH ANCHOR TYPE "A" OR "D" TO WOOD OR METAL STUD)

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

SINGLE SIDELIGHT SHOWN, MULTIPLE SIDELIGHT CONDITION ALSO APPLIES WITH SIDELIGHT AT ONE OR BOTH SIDES.

DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES.

HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

ALLOWABLE DESIGN PRESSURE
+/-65 PSF

STATE OF TEXAS — WARREN W. SCHAEFER — 113497 — LICENSED PROFESSIONAL ENGINEER

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PLOT: 1=24 | DATE: 01/29/13

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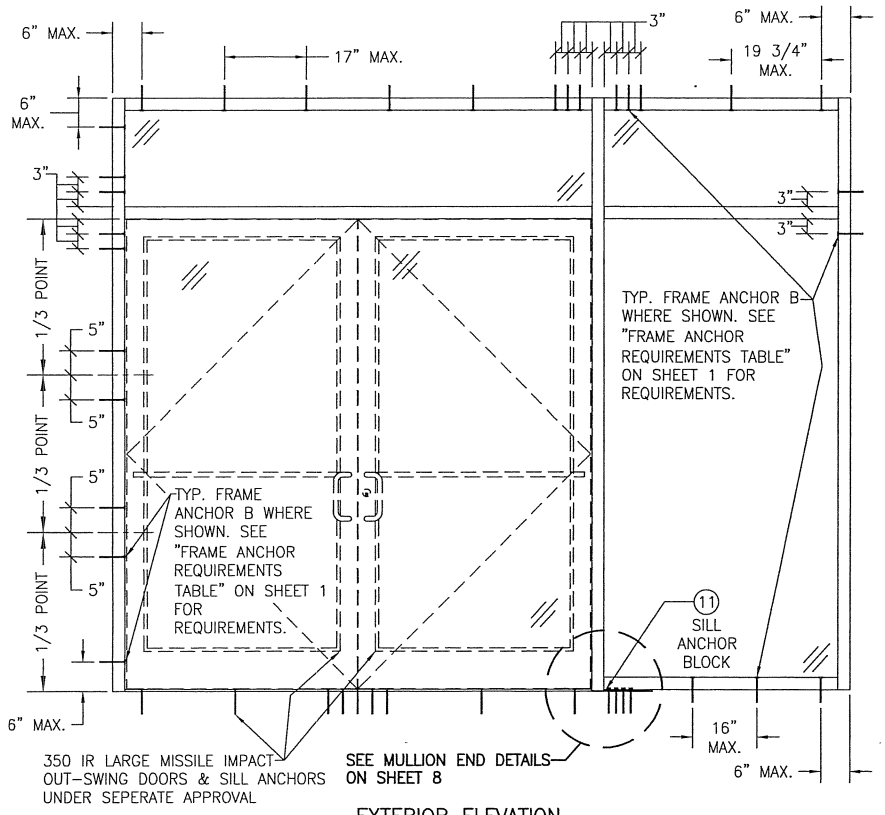
JOB INFORMATION: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424

CERTIFICATION: MAR 04 2013 — WARREN W. SCHAEFER, P.E. P.E. NO. 113497

DRAWING NO. 1461T | REV.

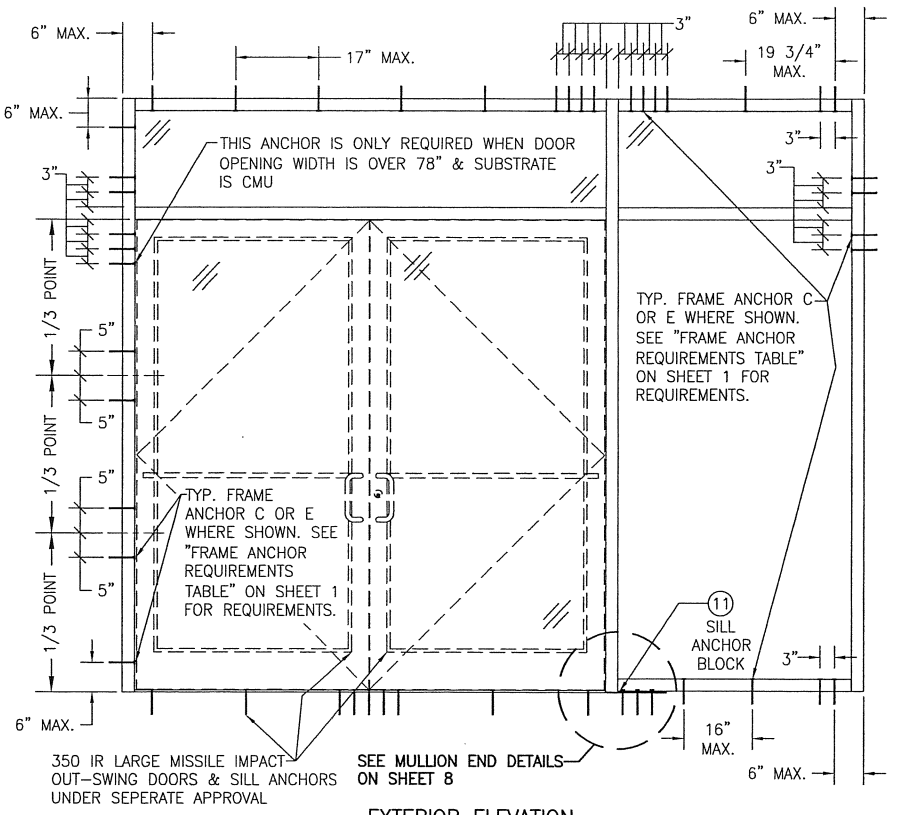
SHEET NO. 3 OF 9



EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM
(WITH ANCHOR TYPE "B" TO STEEL)

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

FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 3.



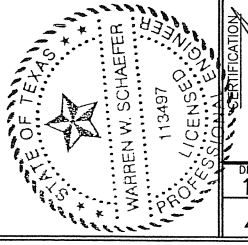
EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM
(WITH ANCHOR TYPE "C" & "E" TO CONCRETE/CMU)

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

FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 3.

NOTE: CMU IS APPLICABLE ONLY AT SIDES.

ALLOWABLE DESIGN PRESSURE
+/-65 PSF



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555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
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DRAWING NO. 1461T
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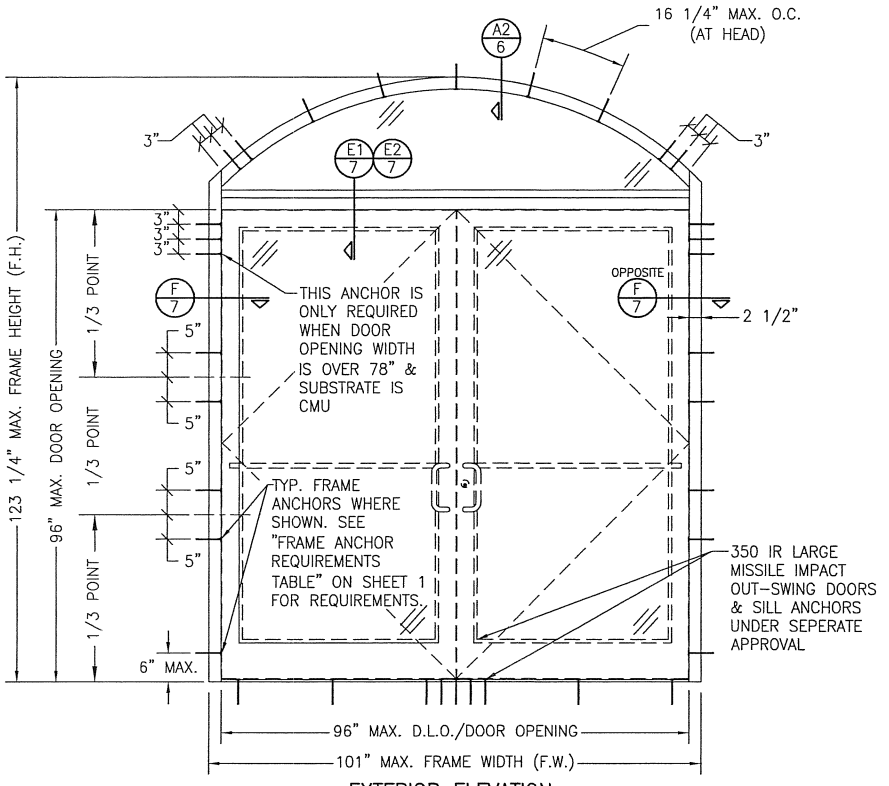
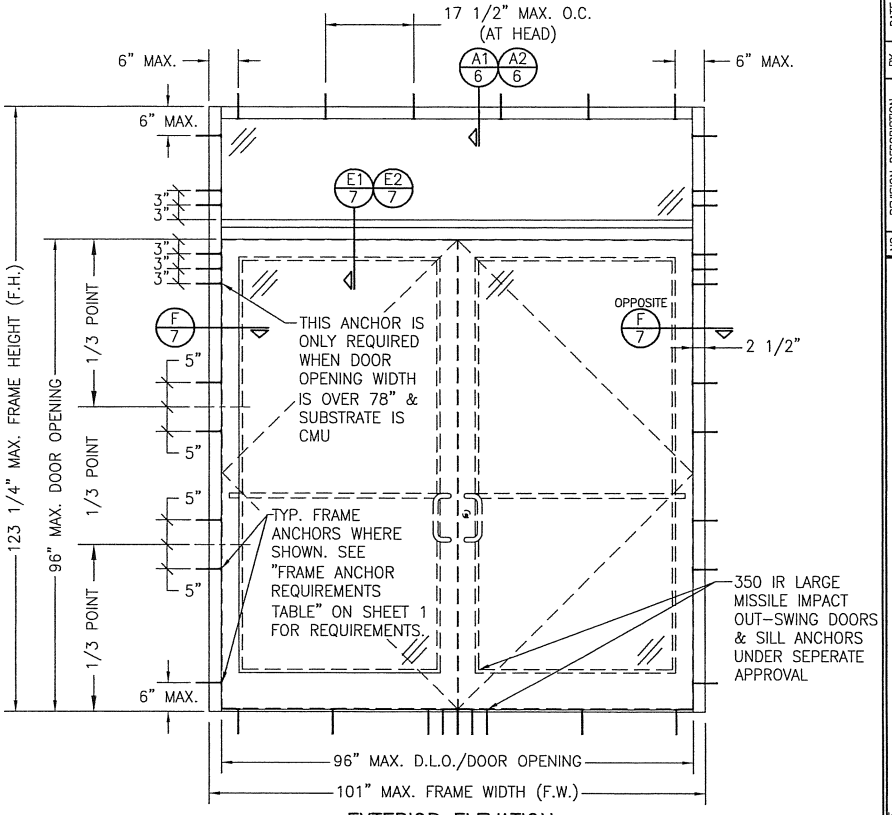
SHEET NO. 4 OF 9



EXTERIOR ELEVATION
STORE FRONT FRAMING WITH DOORS & EYEBROW TRANSOM
(APPLICABLE WITH ALL SUBSTRATES)

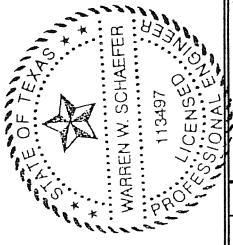
(DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES)
SCALE: 1/2"=1'-0"



EXTERIOR ELEVATION
STORE FRONT FRAMING WITH DOORS & RECTANGULAR TRANSOM
(APPLICABLE WITH ALL SUBSTRATES)

(DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES)
SCALE: 1/2"=1'-0"

ALLOWABLE DESIGN PRESSURE
+/-65 PSF



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DRAWING TITLE
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JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
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PHONE: 561-744-3424

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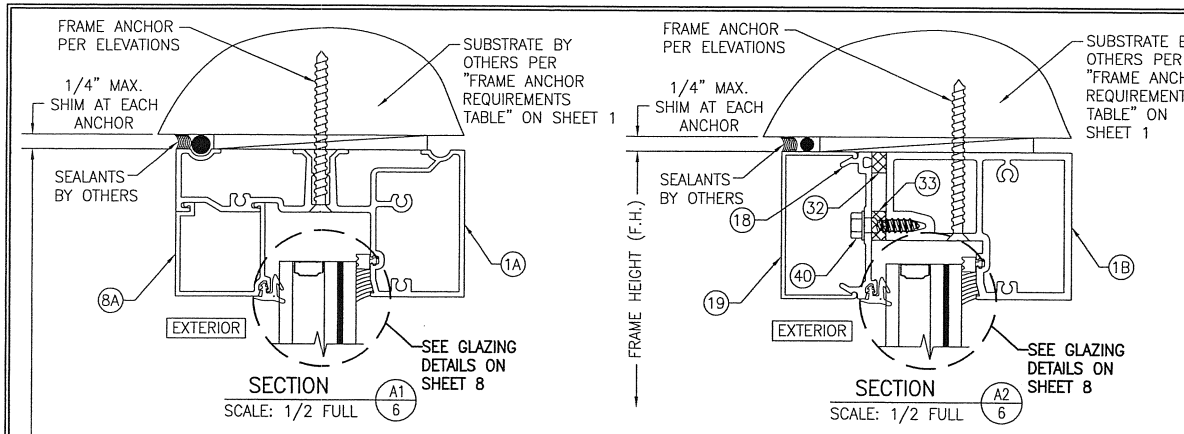
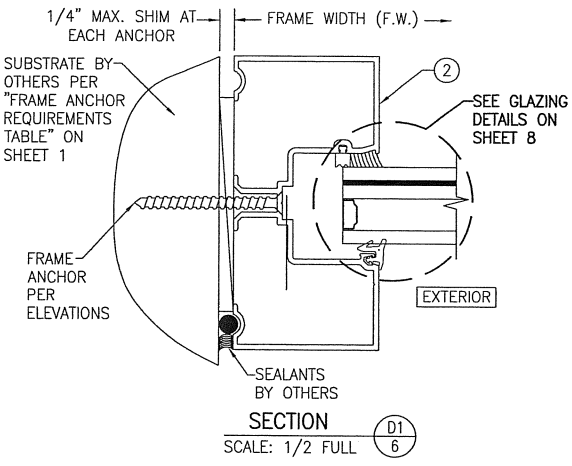
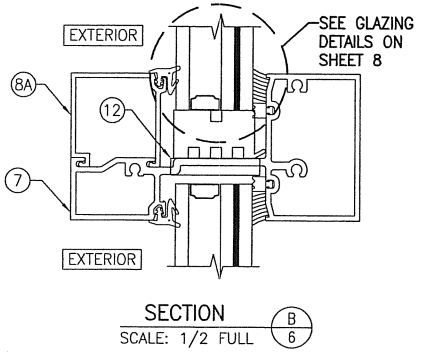
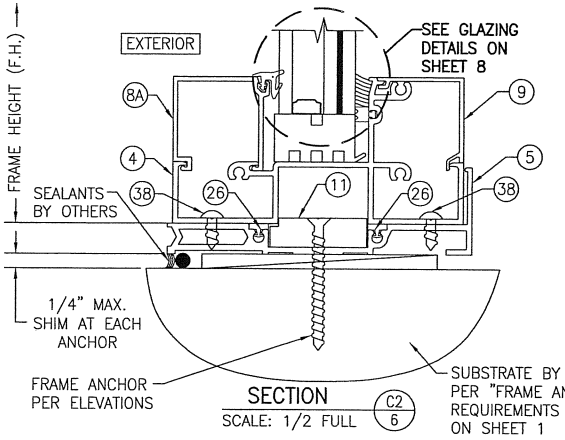
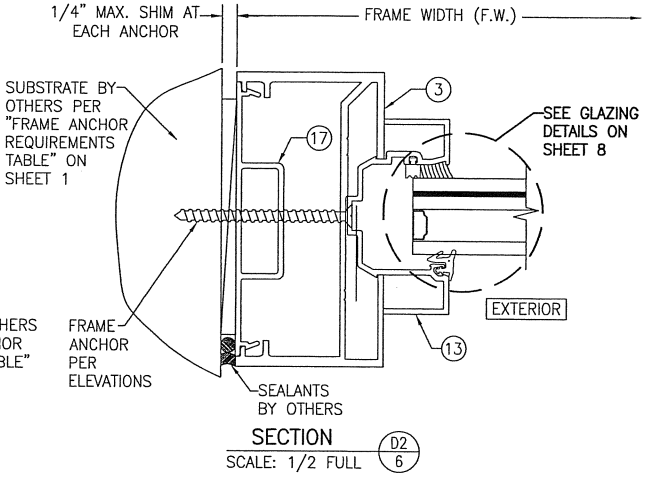
DRAWING NO. 1461T | REV.
SHEET NO. 5 OF 9

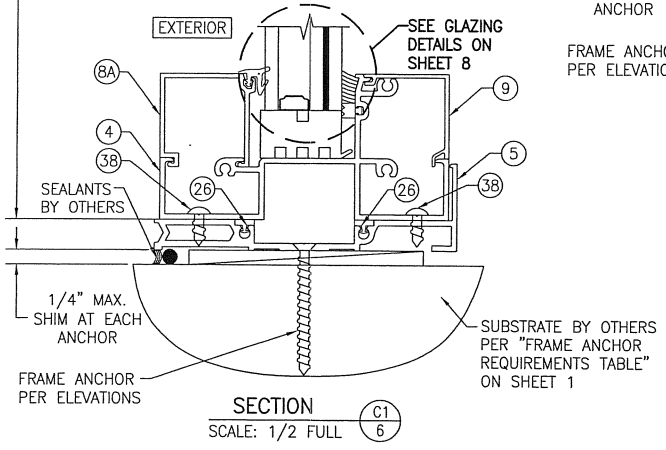


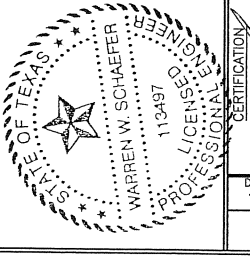












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DRAWING TITLE
IR501 ALUMINUM STORE FRONT SYSTEM – LARGE MISSILE IMPACT

JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
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7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
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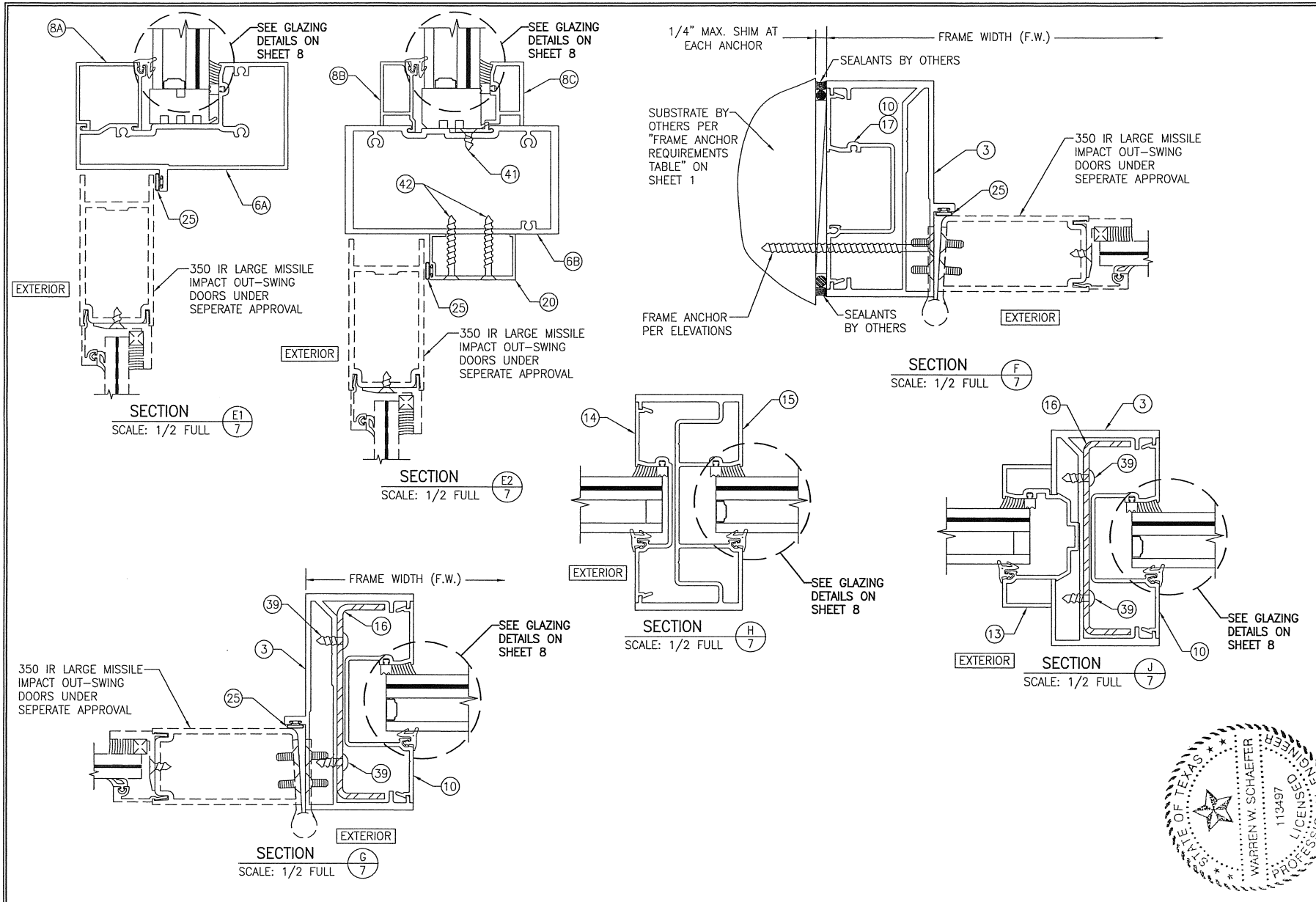
DRAWING NO.	REV.
1461T	

SHEET NO.
6 OF 9



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W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
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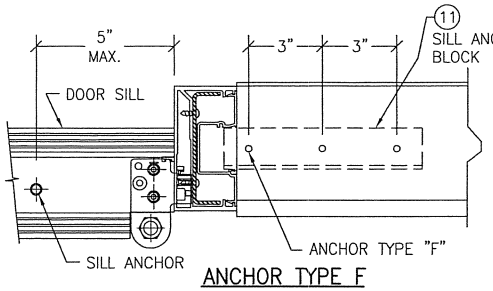
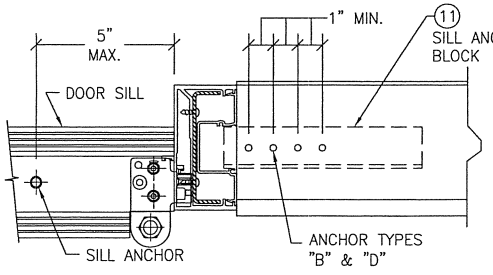
CERTIFICATION
STATE OF TEXAS
WARREN W. SCHAEFER
113497
LICENSED PROFESSIONAL ENGINEER
MAR 04 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1461T | REV.
SHEET NO. 7 OF 9

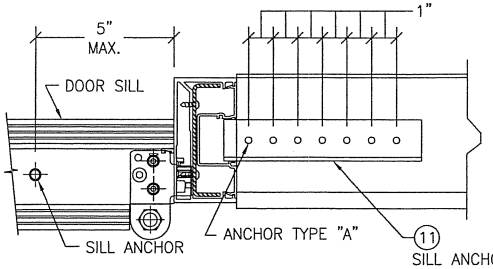
MULLION END CONNECTION DETAILS AT VERTICAL MULLIONS ALONG SIDE DOORS
(TYPICAL AT SILL ONLY)



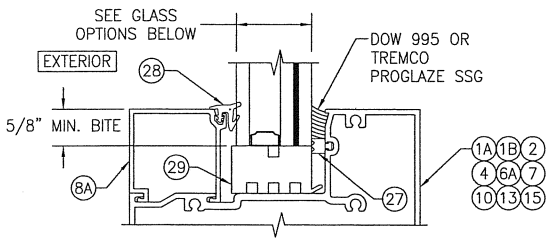
ANCHOR TYPE F
(3 ANCHORS PER SILL ANCHOR BLOCK)



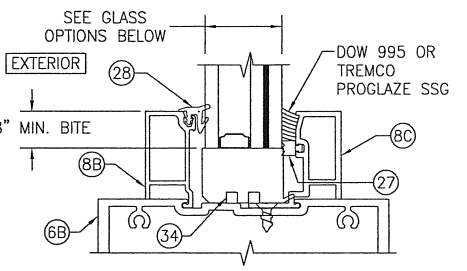
ANCHOR TYPE B
(4 ANCHORS PER SILL ANCHOR BLOCK)



ANCHOR TYPES A & D
(7 ANCHORS PER SILL ANCHOR BLOCK)

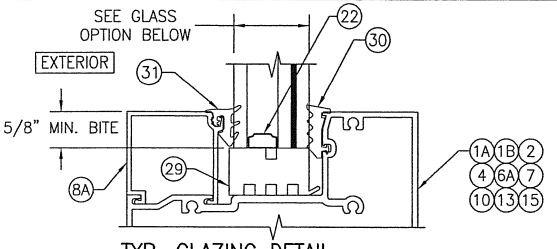


TYP. GLAZING DETAIL
(WET GLAZED; SINGLE GLAZING BEAD CONDITION)



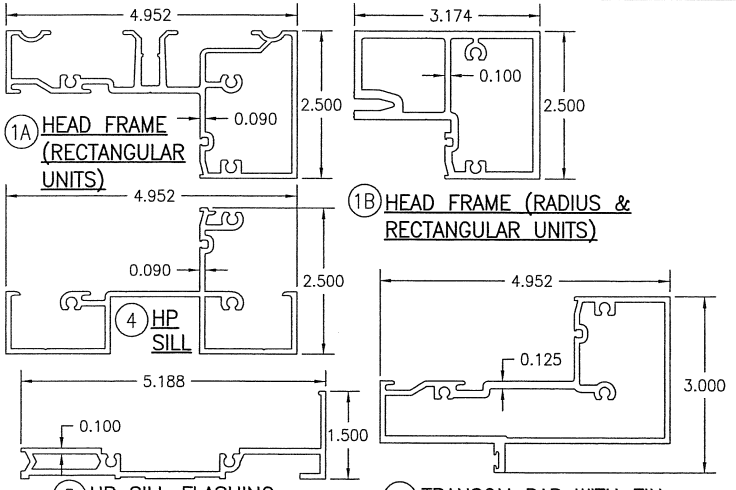
TYP. GLAZING DETAIL
(WET GLAZED; DOUBLE GLAZING BEAD CONDITION)

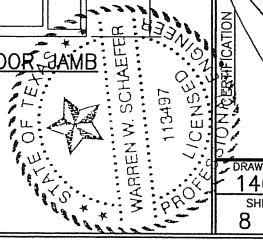
GLASS OPTIONS (WET GLAZED):
OPTION 1: 1 5/16" THICK LAMINATED GLASS BY SOLUTIA (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 SOLUTIA SAFLEX/1/4" HT. ST.)
OPTION 2: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)



TYP. GLAZING DETAIL
(DRY GLAZED; SINGLE GLAZING BEAD CONDITION)

GLASS OPTION (DRY GLAZED):
OPTION 1: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST.)





DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 01/29/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
IR501 ALUMINUM STORE FRONT SYSTEM – LARGE MISSILE IMPACT

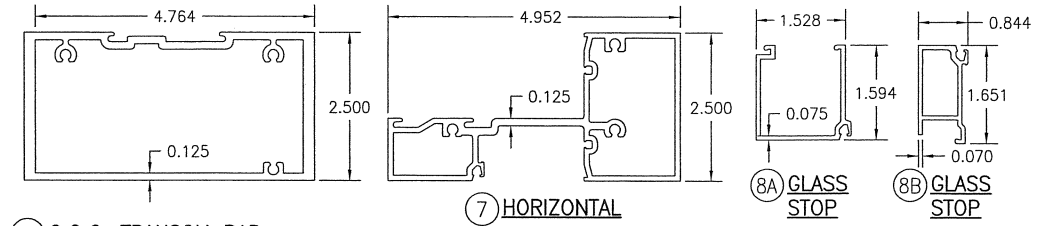
JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
MAR 04 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1461T
REV.
SHEET NO. 8 OF 9

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
		PARTS	
1A	575–103	HEAD FRAME (RECTANGULAR UNITS)	6063–T6 ALUMINUM
1B	575–163	HEAD FRAME (RADIUS & RECTANGULAR UNITS)	6063–T6 ALUMINUM
2	575–101	JAMB	6063–T6 ALUMINUM
3	575–051	DOOR JAMB	6063–T6 ALUMINUM
4	575–158	HP SILL	6063–T6 ALUMINUM
5	575–157	HP SILL FLASHING	6063–T6 ALUMINUM
6A	575–122	TRANSOM BAR WITH FIN	6063–T6 ALUMINUM
6B	575–162	C.O.C. TRANSOM BAR	6063–T6 ALUMINUM
7	575–115	HORIZONTAL	6063–T6 ALUMINUM
8A	575–104	GLASS STOP	6063–T6 ALUMINUM
8B	575–160	GLASS STOP	6063–T6 ALUMINUM
8C	575–161	GLASS STOP	6063–T6 ALUMINUM
9	575–159	HP COVER	6063–T6 ALUMINUM
10	575–135	DEEP POCKET FILLER	6063–T6 ALUMINUM
11	575–297	SILL ANCHOR BLOCK (AT DOOR JAMB)	6063–T6 ALUMINUM
12	451–105	WATER DEFLECTOR	6063–T6 ALUMINUM
13	575–133	POCKET INSERT	6063–T6 ALUMINUM
14	575–102	POCKET FILLER	6063–T6 ALUMINUM
15	575–116	HW MULLION	6063–T6 ALUMINUM
16	575–310	STEEL REINF.	A36 STEEL
17	575–052	POCKET INSERT	6063–T6 ALUMINUM
18	575–065	PRESSURE PLATE	6063–T6 ALUMINUM
19	575–164	PRESSURE PLATE COVER	6063–T6 ALUMINUM
20	041–045	DOOR STOP	6063–T6 ALUMINUM
21	450–140	SHEAR BLOCK	6063–T6 ALUMINUM
22	–	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
		SEALS AND SEALANTS	
25	027–078	DOOR BULB WEATHERING	ALCRYN
26	127–120	SILL TO FLASHING GASKET	CCN SPONGE
27	127–011	SLIDE IN SPACER	SANTOPRENE
28	027–074	STANDARD PUSH ON GASKET	EPDM (DUROMETER = 70 +/–5)
29	127–070	SETTING BLOCK	EPDM
30	127–121	INTERIOR FIXED GASKET	EPDM (DUROMETER = SPONGE)
31	127–126	EXTERIOR PUSH IN GASKET	EPDM (DUROMETER = 70)
32	027–916	GASKET	EPDM (DUROMETER = 70)
33	163–303	THERMAL SEPARATOR	EPDM (DUROMETER = 70)
		FASTENERS	
38	128–396	NO. 12 X 7/16" S.S. PHTF SCREW	2" FROM ENDS & MAX. 18" O.C.
39	128–271	NO. 12 X 5/8" S.S. PHTF SCRERW	4" FROM ENDS (2 ROWS)
40	128–406	1/4" X 1" S.S. HWHTF SCREW	3" FROM ENDS & MAX. 9" O.C.
41	128–910	NO. 10 X 1/2" S.S. FHTF SCREW	3" FROM ENDS & MAX. 18" O.C.
42	028–336	NO. 10 X 1 5/8" S.S. FHTF SCREW	1" FROM ENDS; 4 GROUPED AT MID–SPAN; 16" MAX. BETWEEN

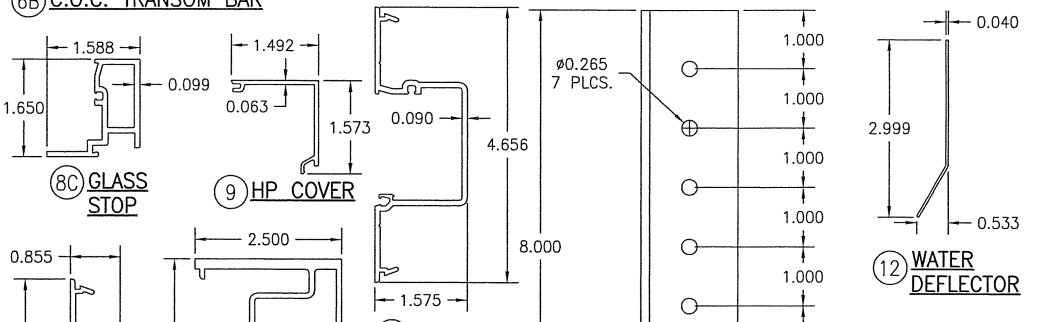


6B C.O.C. TRANSOM BAR

7 HORIZONTAL

8A GLASS STOP

8B GLASS STOP



8C GLASS STOP

9 HP COVER

10 DEEP POCKET FILLER

12 WATER DEFLECTOR

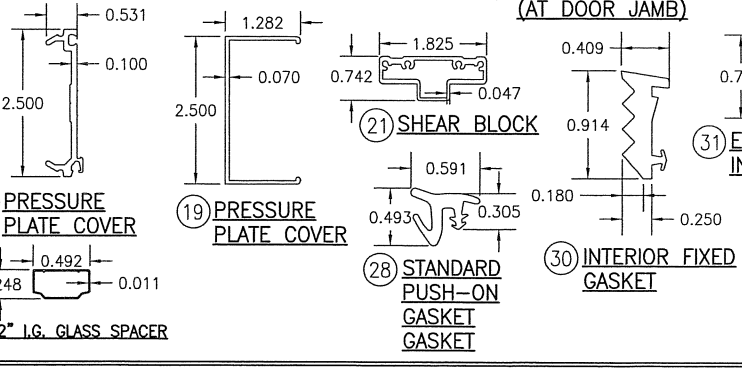
14 POCKET FILLER

15 HW MULLION

20 DOOR STOP

11 SILL ANCHOR BLOCK (AT DOOR JAMB)

13 POCKET INSERT



18 PRESSURE PLATE COVER

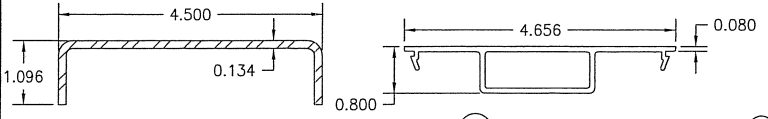
19 PRESSURE PLATE COVER

21 SHEAR BLOCK

28 STANDARD PUSH–ON GASKET GASKET

30 INTERIOR FIXED GASKET

31 EXTERIOR PUSH IN GASKET



16 STEEL REINF.

17 POCKET INSERT

22 1/2" I.G. GLASS SPACER

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.W. | CHECKED BY: W.W.S.
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STATE OF TEXAS
WARREN W. SCHAEFER
113497
LICENSED PROFESSIONAL ENGINEER

CERTIFICATION
MAR 04 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1461T | REV.
SHEET NO. 9 OF 9