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 STORE FRONT SYSTEMS.
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.
11. TO THE BEST OF OUR KNOWLEDGE, THE STORE FRONT SYSTEMS SHOWN HEREIN ARE QUALITY ASSURED BY AN APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH APPLICABLE STANDARDS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. STORE FRONT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
12. CERTIFICATION OF THESE STORE FRONT SYSTEMS SHALL BE CONSIDERED VOID IF THEY ARE INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF THEY ARE INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH STORE FRONT INSTALLATIONS.

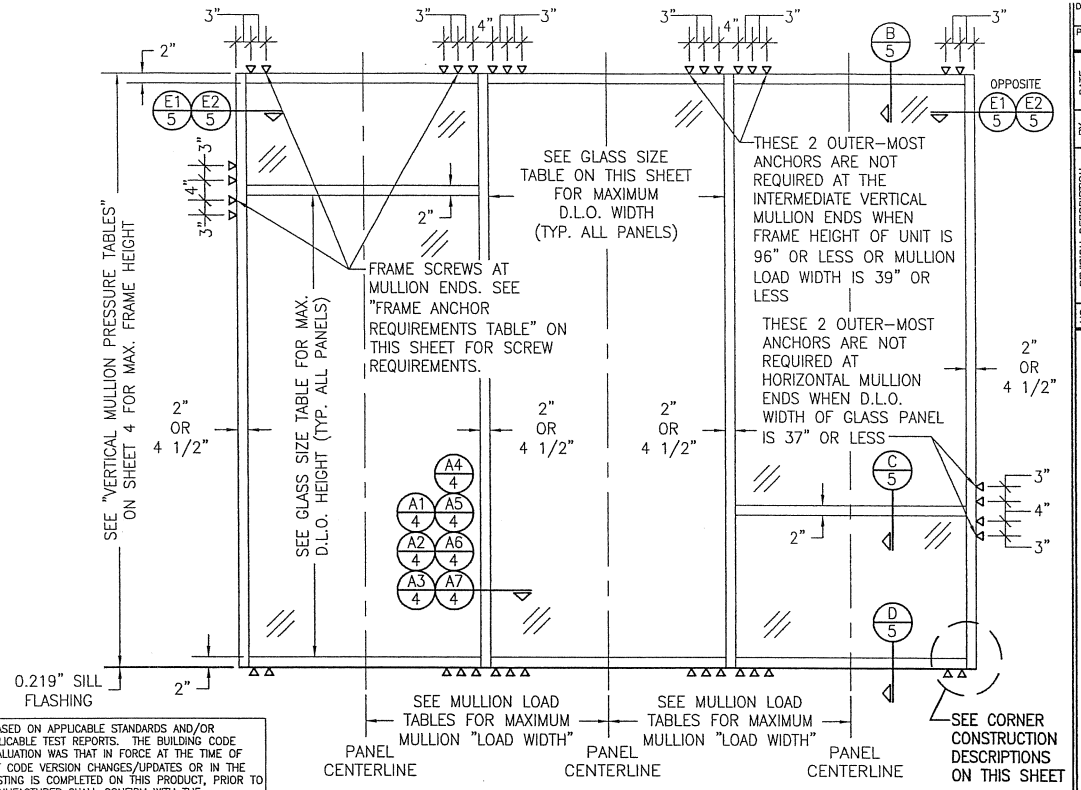
FRAME END/CORNER CONSTRUCTION:

VERTICAL FRAME MEMBERS RUN THROUGH WITH HORIZONTAL FRAME MEMBERS RUNNING BETWEEN THE VERTICALS. APPLY SEALANT TO BOTH ENDS OF ALL HORIZONTAL FRAME MEMBERS AND GLAZING REGLETS. SECURE VERTICAL FRAME MEMBERS TO THE HORIZONTAL FRAME MEMBERS WITH NO. 12 X 1 1/8" PHTF SCREWS RUN THROUGH THE VERTICAL MEMBERS & INTO THE HORIZONTAL MEMBER SCREW SPLINES (QUANTITY OF SCREWS TO MATCH THE NUMBER OF SCREW SPLINES). PIN SILL END DAMS TO SILL FLASHING WITH 1 NO. 6 SCREW & APPLY SEALANT TO END DAMS. TOOL SEALANT AT ALL LOCATIONS.

ALLOWABLE GLASS SIZE TABLE	
MAXIMUM D.L.O. WIDTH (IN.)	MAXIMUM D.L.O. HEIGHT (IN.)
48	93 5/16
45	99 1/2
42	106 5/8
39	114 3/4
38	116

ALLOWABLE DESIGN PRESSURE
AS CONTROLLED BY GLASS: +/-45 PSF
AS CONTROLLED BY DOORS: SEE RESPECTIVE DOOR APPROVAL.
AS CONTROLLED BY VERTICAL MULLIONS: SEE MULLION PRESSURE TABLE ON SHEET 4.
NOTE: LESSER OF THE ALLOWABLE PRESSURE ON THE GLASS, DOORS & VERTICAL MULLIONS SHALL CONTROL AS THE ALLOWABLE PRESSURE ON THE ASSEMBLY.

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.



EXTERIOR ELEVATION:
MULTIPLE FIXED PANEL STOREFRONT ASSEMBLY

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

UNIT NOTES:
1. HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED PROVIDING D.L.O. DOES NOT EXCEED THAT SPECIFIED IN THE GLASS SIZE TABLE.
2. NUMBER OF GLASS PANELS STACKED VERTICALLY WITHIN IN ONE BAY IS UNLIMITED PROVIDING THE OVERALL FRAME HEIGHT DOES NOT EXCEED THAT ALLOWED IN THE MULLION LOAD TABLES.
3. GLASS PANELS MAY BE FULL HEIGHT OF UNIT OR BE SPLIT WITH INTERMEDIATE HORIZONTAL MULLIONS PROVIDING D.L.O. OF EACH PANEL DOES NOT EXCEED THAT SPECIFIED IN THE GLASS SIZE TABLE.

FRAME ANCHOR REQUIREMENTS TABLE (FRAME, SILL & DOOR JAMB MULLION CLIP SCREWS)

OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 16 GA. 33 KSI METAL STUD	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU (SIDES ONLY)	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

(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.).

PRODUCT LIMITS OF USE APPLICABLE TO ALL STOREFRONT CONDITIONS SHOWN WHEN GLASS OPTION 1 IS USED (NOT APPLICABLE WHEN GLASS OPTION 2 IS USED):
A) THIS STOREFRONT SYSTEM MAY NOT BE INSTALLED AT SMALL MISSILE IMPACT LOCATIONS OF ANY BUILDING (OVER 30 FT. ABOVE GRADE).
B) USE OF THIS STOREFRONT SYSTEM IS NOT APPLICABLE UNLESS THE VERTICAL EDGE OF THE STOREFRONT GLASS IS GREATER THAN 24" FROM ANY OPERABLE DOOR PANEL EDGE & ONE OF THE FOLLOWING APPLIES:
1. ALL WALKWAYS HAVE A MINIMUM 36" SEPARATION BETWEEN THE EDGE OF THE WALKWAY AND THE FACE OF THE STOREFRONT GLASS.
2. BOTTOM EDGE OF THE STOREFRONT GLASS IS 18" OR GREATER ABOVE THE WALKING SURFACE.

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.

MAR 20 2013

WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 03/19/13

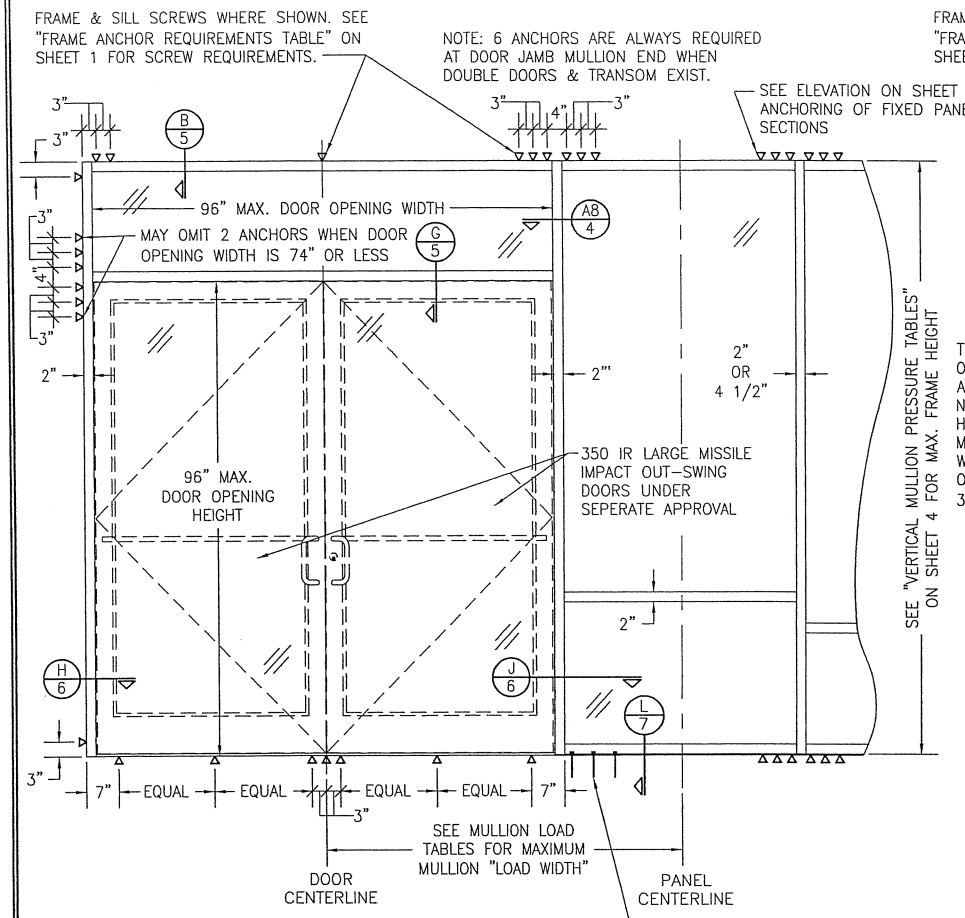
DRAWING TITLE: TRIFAB 451/451T LARGE MISSILE IMPACT STOREFRONT SYSTEM

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

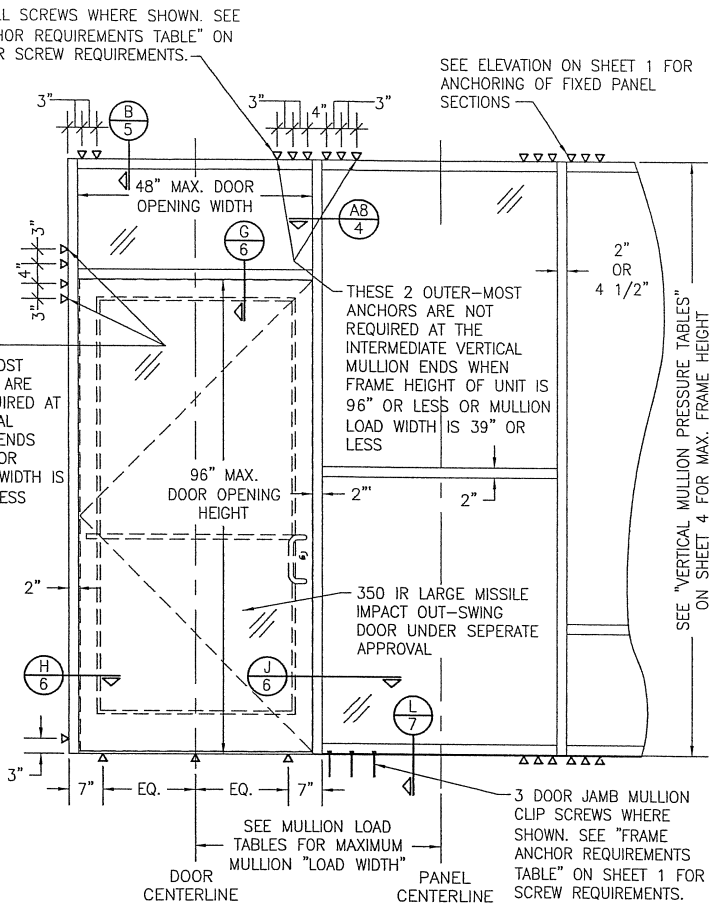
DRAWING NO. 1726T | REV.

SHEET NO. 1 OF 8



EXTERIOR ELEVATION;
STORE FRONT ASSEMBLY WITH
DOUBLE DOOR & TRANSOM

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

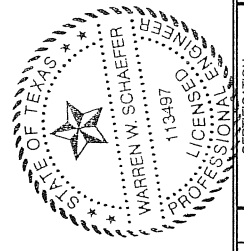


EXTERIOR ELEVATION;
STORE FRONT ASSEMBLY WITH
SINGLE DOOR & TRANSOM

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

UNIT NOTES (SINGLE & DOUBLE DOOR ELEVATIONS):

1. SIDELIGHTS AT ONE SIDE OF DOOR SHOWN. SIDELIGHTS MAY BE PLACED AT ONE OR BOTH SIDES OF DOORS.
2. HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED PROVIDING FIXED PANEL D.L.O. DOES NOT EXCEED THAT SPECIFIED IN THE GLASS SIZE TABLE.
3. NUMBER OF GLASS PANELS STACKED VERTICALLY WITHIN IN ONE BAY IS UNLIMITED PROVIDING THE OVERALL FRAME HEIGHT DOES NOT EXCEED THAT ALLOWED IN THE MULLION LOAD TABLES.
4. FOR STOREFRONT DETAIL NOT SHOWN, SEE ELEVATION ON SHEET 1.
5. MULLION CONDITION, WHERE-BY DOORS ARE MULLED DIRECTLY NEXT TO DOORS, IS NOT COVERED UNDER THIS APPROVAL AND MUST BE EVALUATED SEPARATELY.



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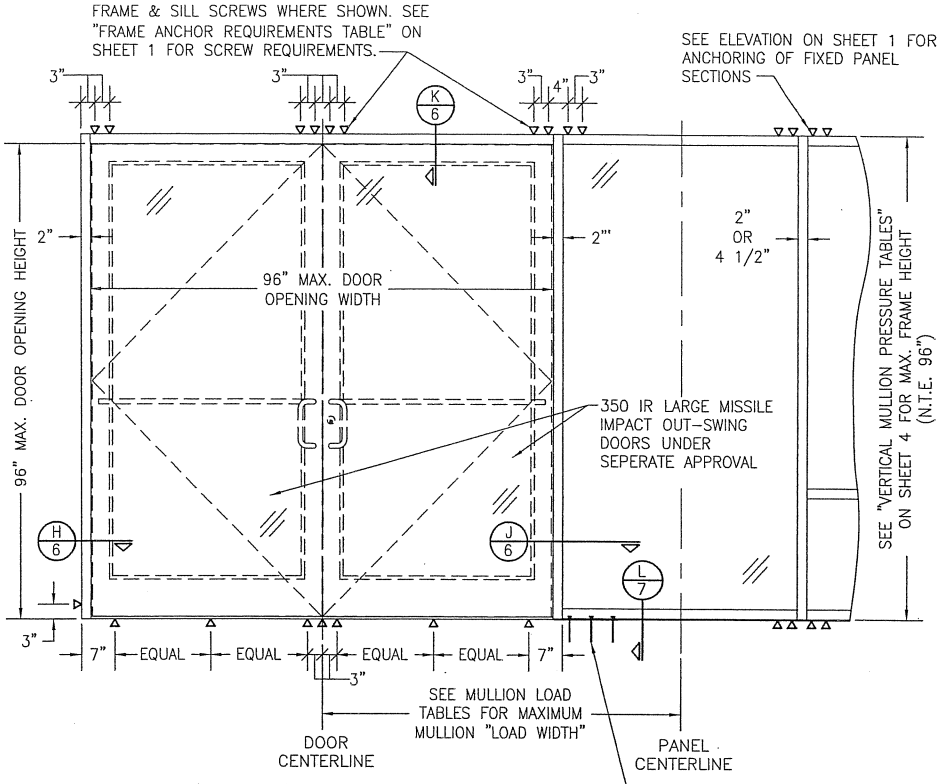
DRAWING TITLE
TRIFAB 451/451T LARGE MISSILE IMPACT STOREFRONT SYSTEM

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

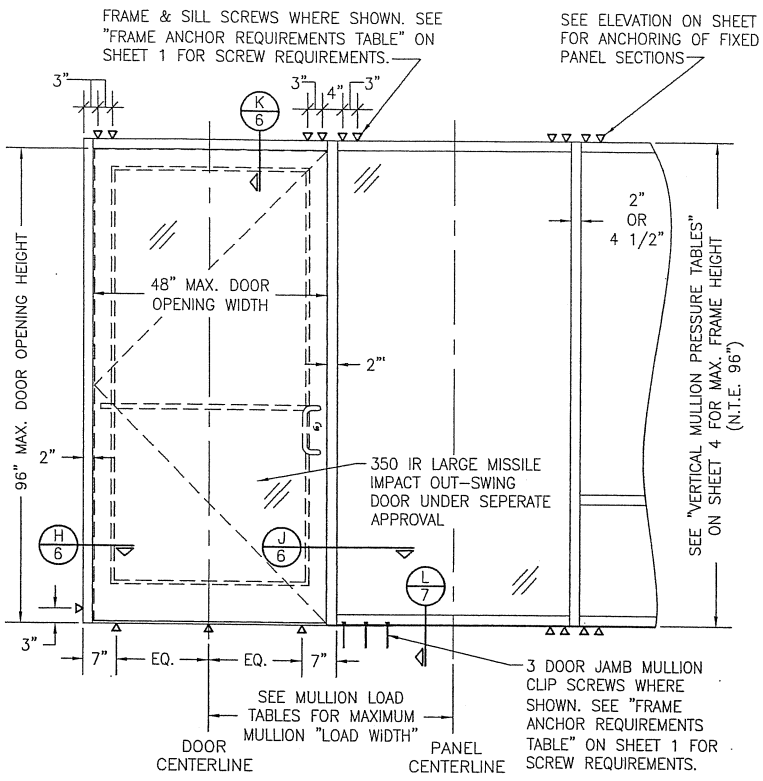
JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 11349?

DRAWING NO. 1726T | REV.
SHEET NO. 2 OF 8



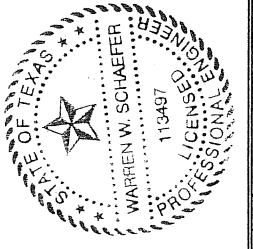
EXTERIOR ELEVATION:
STORE FRONT ASSEMBLY WITH DOUBLE DOOR (NO TRANSOM)
SCALE: 1/2"=1'-0"



EXTERIOR ELEVATION:
STORE FRONT ASSEMBLY WITH SINGLE DOOR (NO TRANSOM)
SCALE: 1/2"=1'-0"

UNIT NOTES (SINGLE & DOUBLE DOOR ELEVATIONS):

1. SIDELIGHTS AT ONE SIDE OF DOOR SHOWN. SIDELIGHTS MAY BE PLACED AT ONE OR BOTH SIDES OF DOORS.
2. HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED PROVIDING FIXED PANEL D.L.O. DOES NOT EXCEED THAT SPECIFIED IN THE GLASS SIZE TABLE.
3. NUMBER OF GLASS PANELS STACKED VERTICALLY WITHIN IN ONE BAY IS UNLIMITED PROVIDING THE OVERALL FRAME HEIGHT DOES NOT EXCEED THAT ALLOWED IN THE MULLION LOAD TABLES.
4. FOR STOREFRONT DETAIL NOT SHOWN, SEE ELEVATION ON SHEET 1.
5. MULLION CONDITION, WHERE-BY DOORS ARE MULLED DIRECTLY NEXT TO DOORS, IS NOT COVERED UNDER THIS APPROVAL AND MUST BE EVALUATED SEPARATELY.



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DRAWING TITLE
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CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
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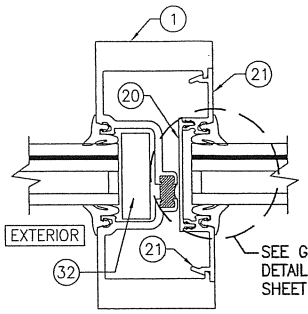
DRAWING NO. 1726T | REV.
SHEET NO. 3 OF 8

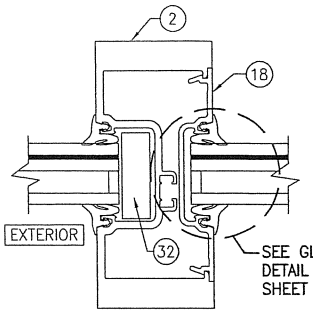
MULLION ALLOWABLE DESIGN PRESSURE

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)						
		MULLION "A"	MULLION "B"	MULLION "C"	MULLION "D"	MULLION "E"	MULLION "F" & "G"	MULLION "H"
120	74	N/A	N/A	N/A	N/A	N/A	N/A	45.0
	50	35.0	45.0	23.0	20.0	N/A	N/A	45.0
	44	39.8	45.0	26.2	22.7	N/A	N/A	45.0
	38	45.0	45.0	30.3	26.3	N/A	N/A	45.0
	32	45.0	45.0	36.0	31.3	N/A	N/A	45.0
	26	45.0	45.0	44.3	38.5	N/A	N/A	45.0
	20	45.0	45.0	45.0	45.0	N/A	N/A	45.0
108	74	N/A	N/A	N/A	N/A	N/A	N/A	45.0
	50	38.9	45.0	31.6	22.2	N/A	N/A	45.0
	44	44.2	45.0	35.9	25.3	N/A	N/A	45.0
	38	45.0	45.0	41.6	29.2	N/A	N/A	45.0
	32	45.0	45.0	45.0	34.7	N/A	N/A	45.0
	26	45.0	45.0	45.0	42.7	N/A	N/A	45.0
	20	45.0	45.0	45.0	45.0	N/A	N/A	45.0
102	74	N/A	N/A	N/A	N/A	N/A	N/A	45.0
	50	41.2	45.0	37.5	23.5	N/A	N/A	45.0
	44	45.0	45.0	42.6	26.7	N/A	N/A	45.0
	38	45.0	45.0	45.0	31.0	N/A	N/A	45.0
	32	45.0	45.0	45.0	36.8	N/A	N/A	45.0
	26	45.0	45.0	45.0	45.0	N/A	N/A	45.0
96	74	N/A	N/A	N/A	N/A	N/A	N/A	45.0
	50	43.8	45.0	45.0	25.0	30.0	45.0	45.0
	44	45.0	45.0	45.0	28.4	34.1	45.0	45.0
	38	45.0	45.0	45.0	32.9	39.5	45.0	45.0
	32	45.0	45.0	45.0	39.1	45.0	45.0	45.0
	26	45.0	45.0	45.0	45.0	45.0	45.0	45.0
90	74	N/A	N/A	N/A	N/A	N/A	N/A	45.0
	50	45.0	45.0	45.0	26.7	32.0	45.0	45.0
	44	45.0	45.0	45.0	30.3	36.4	45.0	45.0
	38	45.0	45.0	45.0	35.1	42.1	45.0	45.0
	32	45.0	45.0	45.0	41.7	45.0	45.0	45.0
	26	45.0	45.0	45.0	45.0	45.0	45.0	45.0
84	74	N/A	N/A	N/A	N/A	N/A	N/A	45.0
	50	45.0	45.0	45.0	28.6	34.3	45.0	45.0
	44	45.0	45.0	45.0	32.5	39.0	45.0	45.0
	38	45.0	45.0	45.0	37.6	45.0	45.0	45.0
	32	45.0	45.0	45.0	44.6	45.0	45.0	45.0
	26	45.0	45.0	45.0	45.0	45.0	45.0	45.0
78	50	45.0	45.0	45.0	30.8	36.9	45.0	N/A
	44	45.0	45.0	45.0	35.0	42.0	45.0	N/A
	38	45.0	45.0	45.0	40.5	45.0	45.0	N/A
	32	45.0	45.0	45.0	45.0	45.0	45.0	N/A
72	50	45.0	45.0	45.0	33.3	40.0	45.0	N/A
	44	45.0	45.0	45.0	37.9	45.0	45.0	N/A
	38	45.0	45.0	45.0	43.9	45.0	45.0	N/A
	32	45.0	45.0	45.0	45.0	45.0	45.0	N/A
66	50	45.0	45.0	45.0	36.4	43.6	45.0	N/A
	44	45.0	45.0	45.0	41.3	45.0	45.0	N/A
	38	45.0	45.0	45.0	45.0	45.0	45.0	N/A
60	50	45.0	45.0	45.0	40.0	45.0	45.0	N/A
	44	45.0	45.0	45.0	45.0	45.0	45.0	N/A
54	50	45.0	45.0	45.0	44.4	45.0	45.0	N/A
	49	45.0	45.0	45.0	45.0	45.0	45.0	N/A

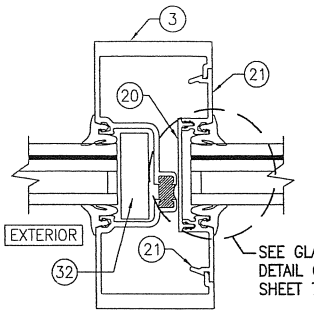
NOTES:
1. SEE ELEVATIONS FOR DIMENSIONING OF LOAD WIDTH.
2. SEE SECTIONS A THROUGH H FOR DETAIL OF MULLIONS.
3. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT MULLION CONDITION.



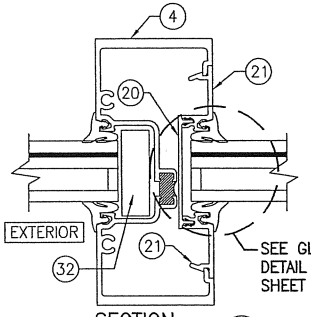
SECTION A1/4
SCALE: 1/2 FULL
(MULLION "A")



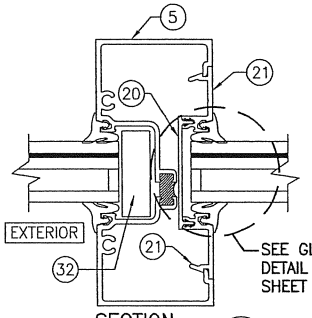
SECTION A2/4
SCALE: 1/2 FULL
(MULLION "B")



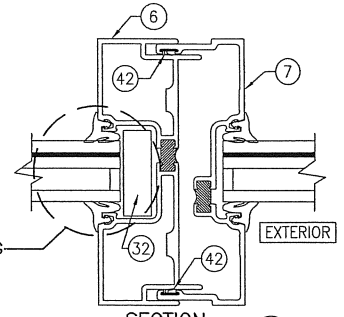
SECTION A3/4
SCALE: 1/2 FULL
(MULLION "C")



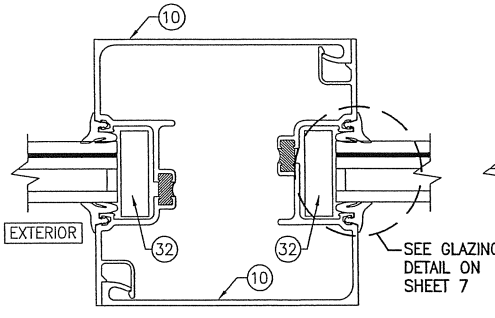
SECTION A4/4
SCALE: 1/2 FULL
(MULLION "D")



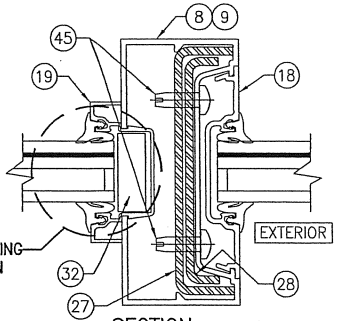
SECTION A5/4
SCALE: 1/2 FULL
(MULLION "E")



SECTION A6/4
SCALE: 1/2 FULL
(MULLION "F")



SECTION A7/4
SCALE: 1/2 FULL
(MULLION "G")



SECTION A8/4
SCALE: 1/2 FULL
(MULLION "H")

STATE OF TEXAS
WARREN W. SCHAEFER
113497
LICENSED
PROFESSIONAL ENGINEER

CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWN BY: W.W.S.
CHECKED BY: W.W.S.
PLOT: 1=2
DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

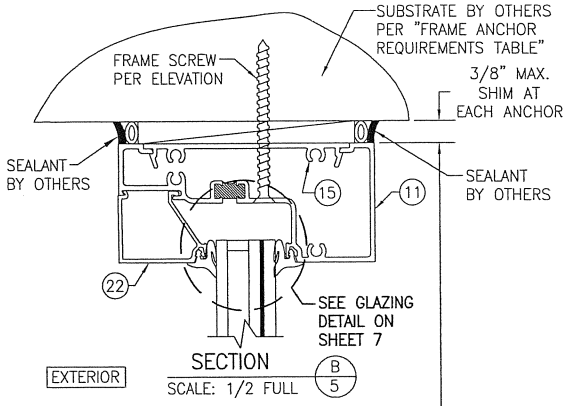
DRAWING TITLE
TRIFAB 451/451T IMPACT STOREFRONT SYSTEM

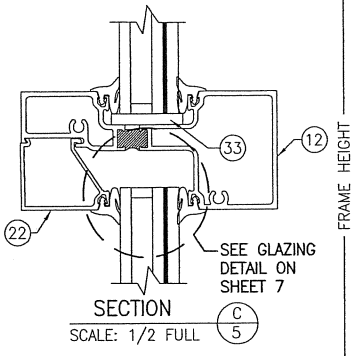
JOB INFORMATION:

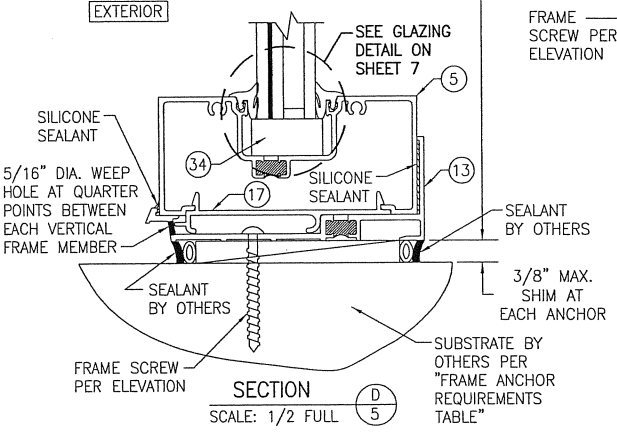
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

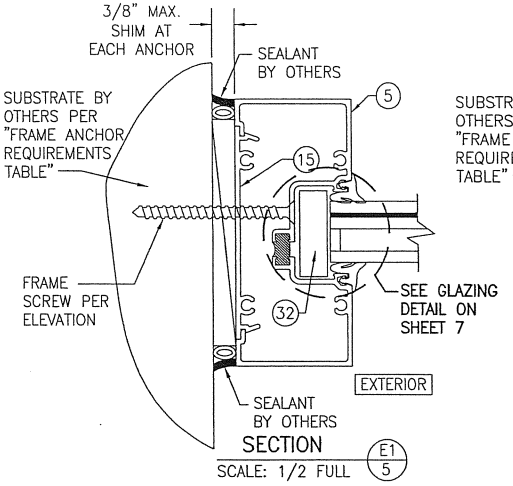
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

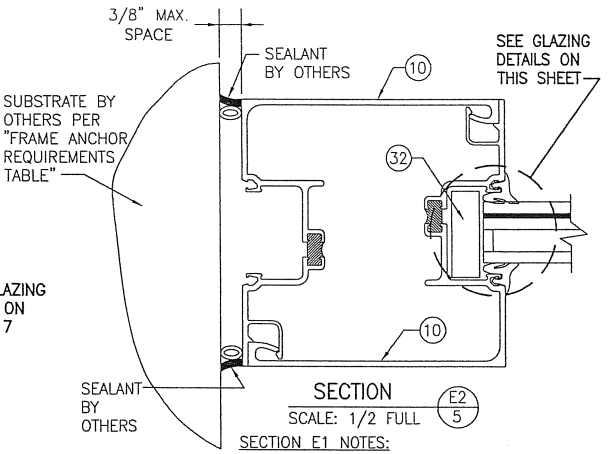
DRAWING NO. 1726T
REV.
SHEET NO. 4 OF 8



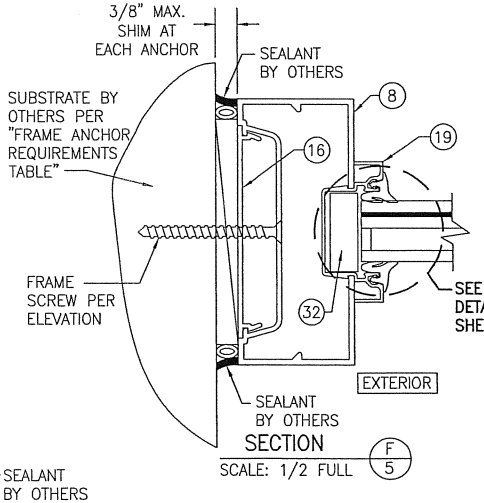


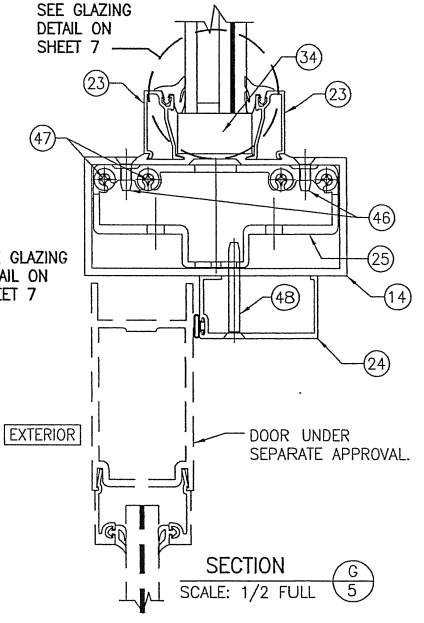


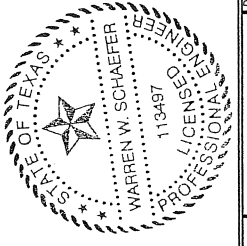




SECTION E1 NOTES:
1) THIS FRAME CONDITION IS LIMITED TO USE WITH FRAME HEIGHTS OF 96" & LESS.
2) INTERMEDIATE HORIZONTAL MEMBERS DO NOT APPLY WITH THIS FRAME CONDITION.







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PLOT: 1=2	DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
TRIFAB 451/451T IMPACT STOREFRONT SYSTEM

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

CONSULTANTS
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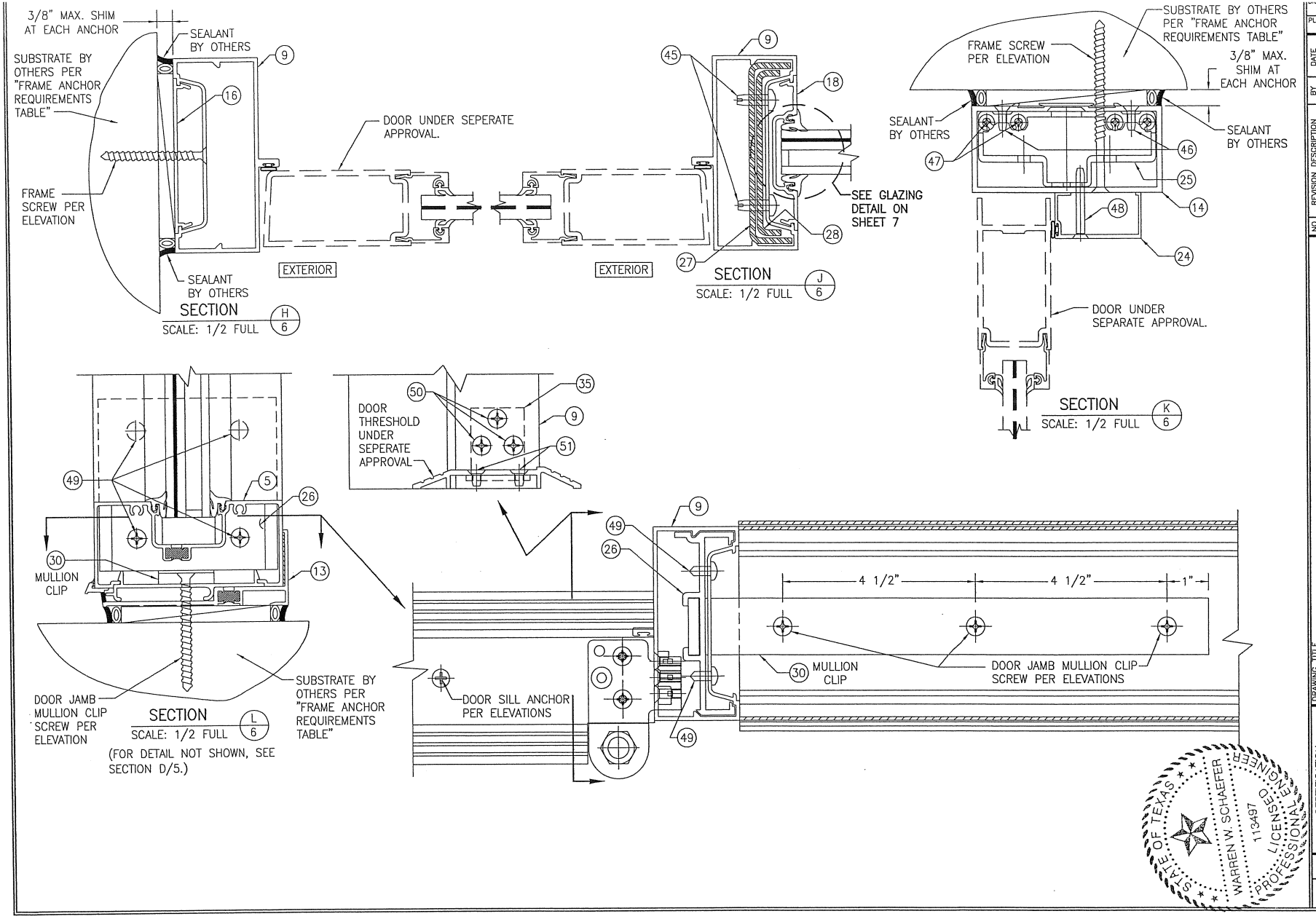
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1726T
REV.
SHEET NO. 5 OF 8



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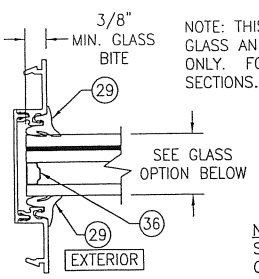
STATE OF TEXAS
WARREN W. SCHAEFER
113497
LICENSED PROFESSIONAL ENGINEER

DRAWING NO. 1726T REV.
SHEET NO. 6 OF 8

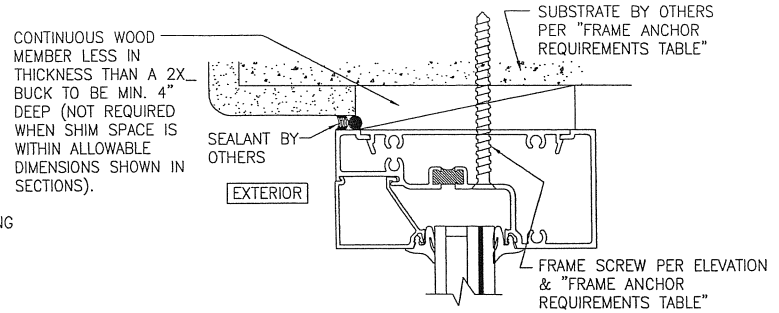


GLAZING DETAIL
SCALE: 1/2 FULL

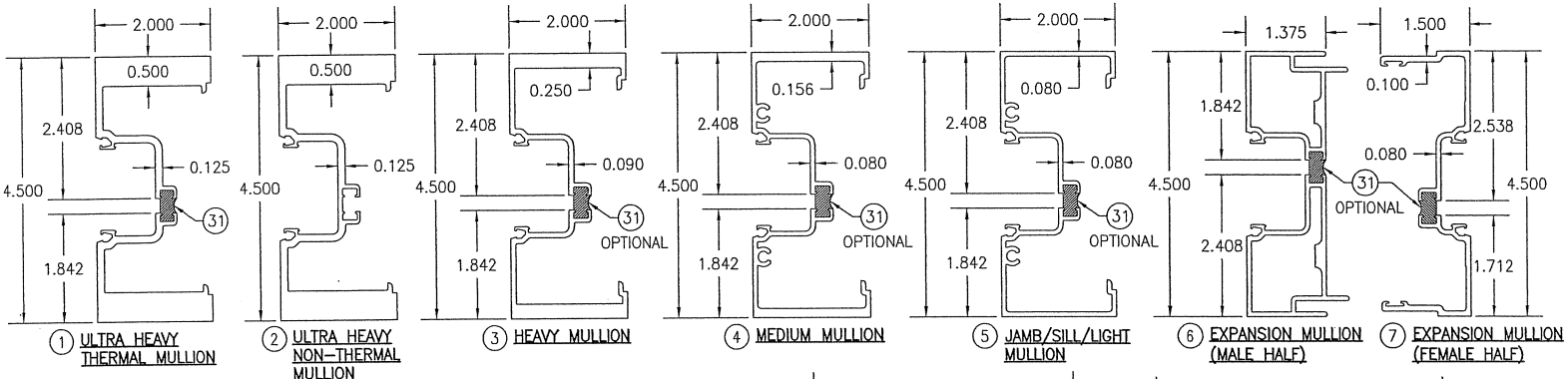
NOTE: THIS GLAZING DETAIL SPECIFIES THE GLASS AND GLAZING GASKET REQUIREMENTS ONLY. FOR SHIMS & OTHER PARTS, SEE SECTIONS.

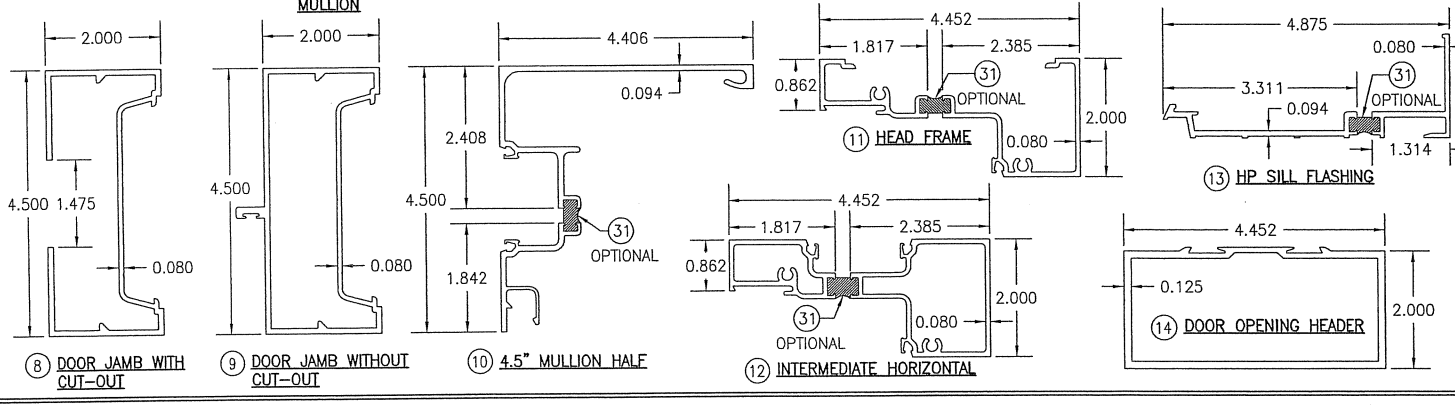
NOTE: EXTERIOR GLASS PANE OF I.G. GLAZING SHALL BE TEMPERED WHEN CURTAIN WALL GLASS IS INSTALLED IN A SMALL MISSILE IMPACT LOCATION OF A BUILDING OR WHEN GLASS IS REQUIRED TO BE SAFETY GLAZED.

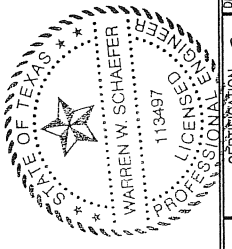
GLASS OPTIONS:
OPTION 1) 1 1/32" I.G. GLASS WITH 3/16" HS OUTBOARD, 3/8" AIR SPACE & LAMINATED 3/16" HS/0.09" DUPONT SG/3/16" HS INBOARD
OPTION 2) 1 1/32" I.G. GLASS WITH 3/16" TEMPERED OUTBOARD, 3/8" AIR SPACE & LAMINATED 3/16" HS/0.09" DUPONT SG/3/16" HS INBOARD



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)







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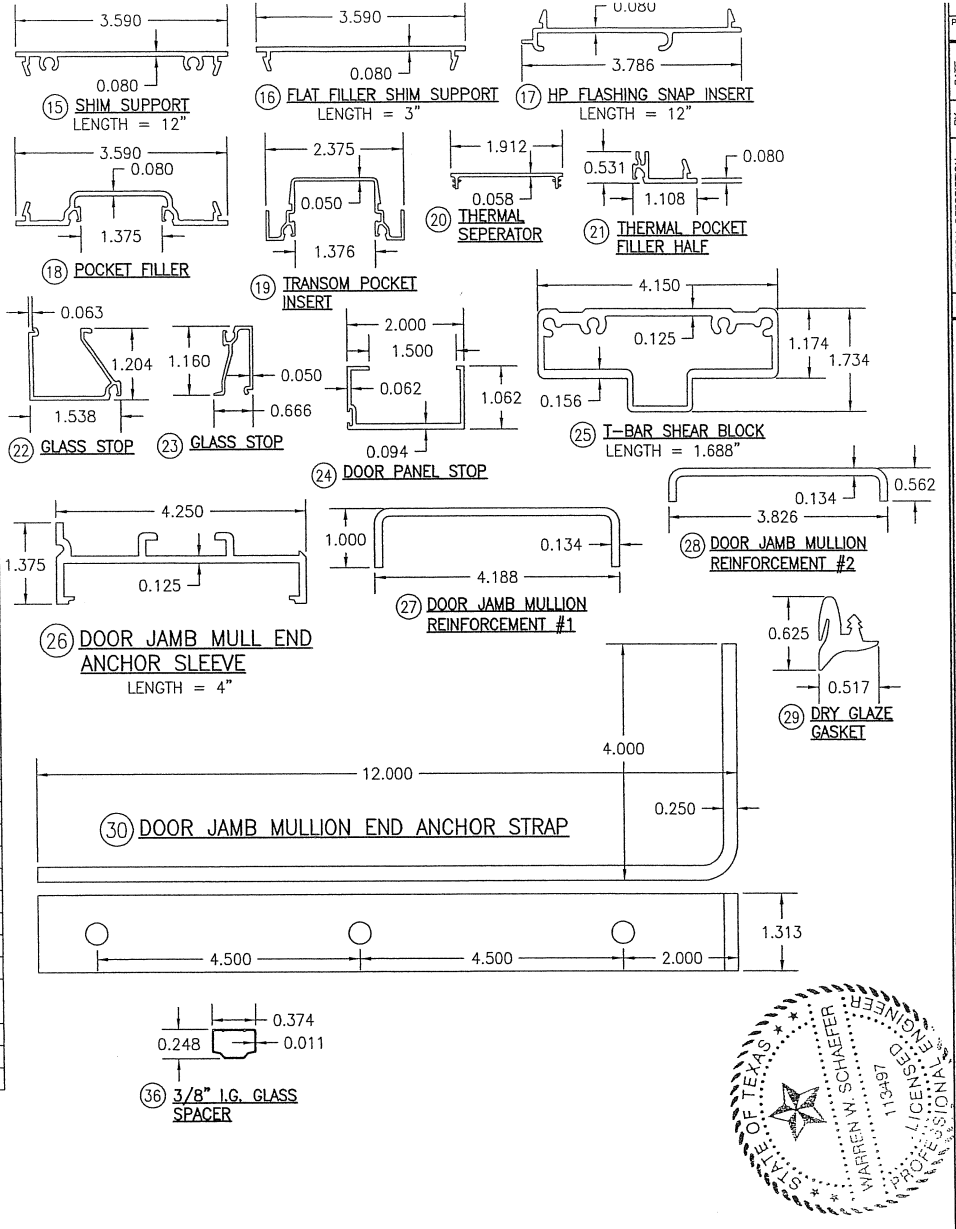
DRAWING NO. 1726T | REV.
SHEET NO. 7 OF 8

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	ULTRA HEAVY THERMAL MULLION	6063–T6 ALUMINUM
2	ULTRA HEAVY NON–THERMAL MULLION	6063–T6 ALUMINUM
3	HEAVY MULLION	6063–T6 ALUMINUM
4	MEDIUM MULLION	6063–T6 ALUMINUM
5	JAMB/SILL/LIGHT MULLION	6063–T6 ALUMINUM
6	EXPANSION MULLION (MALE HALF)	6063–T6 ALUMINUM
7	EXPANSION MULLION (FEMALE HALF)	6063–T6 ALUMINUM
8	DOOR JAMB WITH GLAZING CUT–OUT	6063–T6 ALUMINUM
9	DOOR JAMB WITHOUT CUT–OUT	6063–T6 ALUMINUM
10	4.5" MULLION HALF	6063–T6 ALUMINUM
11	HEAD FRAME	6063–T6 ALUMINUM
12	INTERMEDIATE HORIZONTAL	6063–T6 ALUMINUM
13	HP SILL FLASHING	6063–T6 ALUMINUM
14	DOOR OPENING HEADER	6063–T6 ALUMINUM
15	SHIM SUPPORT	6063–T6 ALUMINUM
16	FLAT FILLER SHIM SUPPORT	6063–T6 ALUMINUM
17	HP FLASHING SNAP INSERT	6063–T6 ALUMINUM
18	POCKET FILLER	6063–T6 ALUMINUM
19	TRANSOM POCKET INSERT	6063–T6 ALUMINUM
20	THERMAL SEPARATOR	AZON NO–TAPE 303–12T POLYMER
21	THERMAL POCKET FILLER HALF	6063–T6 ALUMINUM
22	GLASS STOP	6063–T6 ALUMINUM
23	GLASS STOP	6063–T6 ALUMINUM
24	DOOR PANEL STOP	6063–T6 ALUMINUM
25	T–BAR SHEAR BLOCK	6063–T6 ALUMINUM
26	DOOR JAMB MULLION END ANCHOR SLEEVE	6063–T6 ALUMINUM
27	DOOR JAMB MULLION REINFORCEMENT #1	GRADE 50 STEEL
28	DOOR JAMB MULLION REINFORCEMENT #2	GRADE 50 STEEL
29	DRY GLAZE GASKET (DUROMETER = 70)	EPDM (TRELLBORG 270400)
30	DOOR JAMB MULL END ANCHOR STRAP	A36 STEEL
31	THERMAL BREAK (DUROMETER = 78 +/–2)	AZON NO–TAPE 303–12T POLYURETHANE
32	0.525" LONG W–BLOCK GLASS EDGE SUPPORT	EPDM (AT MID–HEIGHT OF EACH GLASS PANE)
33	0.188" X 1.25" SETTING BLOCK	EPDM (LOCATED AT 1/4 POINTS OF GLASS)
34	0.625" X 1.25" SETTING BLOCK	EPDM (LOCATED AT 1/4 POINTS OF GLASS)
35	1 11/16"x1 1/4"x1/8" THRESHOLD/JAMB CLIP	1010–1020 H.R. STEEL (KAWNEER #049–896)
36	3/8" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
	SEALS	
42	WEATHERING STRIP	TPV POLYPROPYLENE
	FASTENERS	
45	1/4–20 X 3/4" 430 SERIES S.S. PHTCMS	3" FROM ENDS AND AT MID–SPAN
46	NO. 10 X 9/16" FH S.S. SMS SCREWS	4 PER SHEAR BLOCK
47	NO. 10 X 1 19/32" PH S.S. SMS SCREW	4 PER SHEAR BLOCK
48	NO 10 X 1 5/8" 300 SERIES S.S. TYPE B FHST	1" FROM ENDS; 4 GROUPED AT MID–SPAN; 16" MAX. BETWEEN
49	NO. 12 X 1/2" 430 SERIES S.S. PHTFS	4 PER CONNECTOR CLIP
50	NO 12–24 X MIN. 3/8" 430 SERIES S.S. FHMS	3 PER THRESHOLD CLIP
51	NO 12–24 X MIN. 3/8" 430 SERIES S.S. FHMS	2 PER THRESHOLD CLIP



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SHEET NO. 8 OF 8