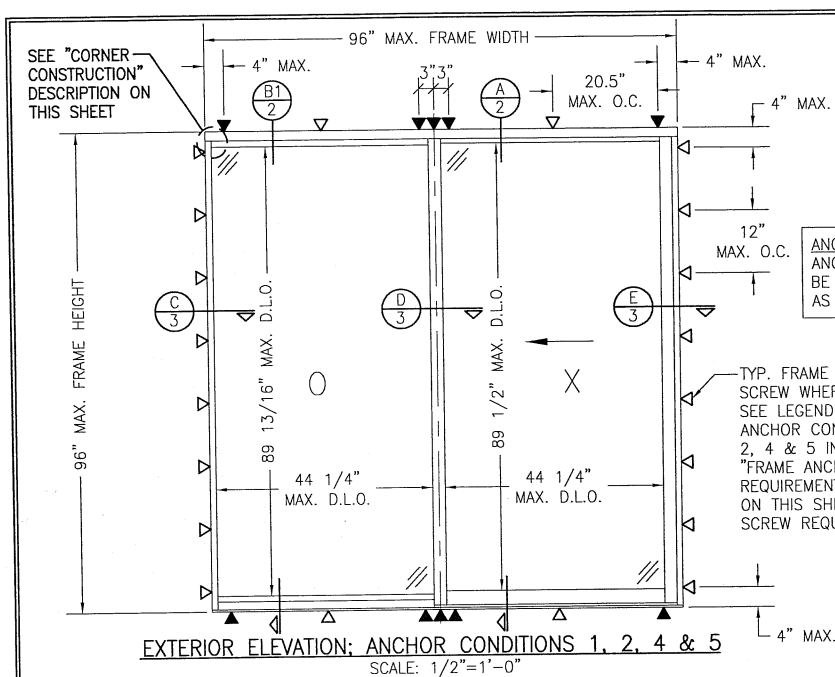
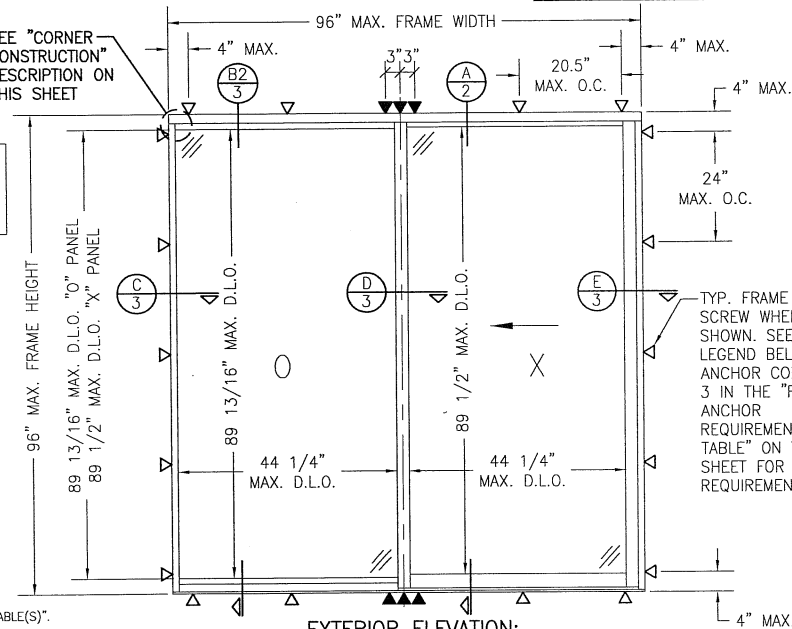




ANCHOR NOTE: SILL ANCHORS ARE TO BE SAME LOCATIONS AS SHOWN AT HEAD.

TYP. FRAME SHEAR SCREW WHERE SHOWN. SEE LEGEND BELOW & ANCHOR CONDITIONS 1, 2, 4 & 5 IN THE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET



EXTERIOR ELEVATION;
ANCHOR CONDITION 3

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

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- 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.
- 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 SMALL MISSILE IMPACT RATED.
- THIS PRODUCT MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE OR AT ANY CODE DESIGNATED LARGE MISSILE IMPACT LOCATION WITHOUT AN APPROVED SHUTTER.
- 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.
- 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 $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
- TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/OA 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.
- 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.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME SHEAR SCREWS

ANCHOR CONDITION	OPENING TYPE (SUBSTRATE)	FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
1	2X WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	(1) 1/4" CONCRETE SCREW	1 1/4"	3/4"
2	(3) MIN. 16 GA. 50 KSI METAL STUD OR MIN. 1/8" THK. A36 STEEL	1/4-14 SELF TAP/DRILLING GR. 5 SCREW	FULL	1/2"
3	MIN. 1/4" THK. A36 STEEL	1/4-14 SELF TAP/DRILLING GR. 5 SCREW	FULL	1/2"
4	(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
5	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.).

(2) CMU IS APPLICABLE AT SIDES ONLY.

(3) STUD MAY BE REDUCED TO 33 KSI 18 GAGE PROVIDING A MIN. 2X4 WOOD BACKER IS PLACED BEHIND THE STUD AND THE ANCHORS PENETRATE THE BACKER MIN. 1 1/4" (WOOD BACKER MUST BE FULL LENGTH OF OPENING WITH ANY NECESSARY SPLICE JOINTS BEING POSITIONED AT LEAST 4" AWAY FROM ANY ANCHOR).

CORNER CONSTRUCTION

FRAME CORNERS:

THE JAMB WAS SQUARE CUT AT THE ENDS AND INSERTED BETWEEN THE ADJOINING HEAD TRACK AND SILL TRACK RECEPTOR. THE HEAD TRACK & SILL TRACK RECEPTOR WERE MECHANICALLY ATTACHED TO THE JAMBS USING TWO(2) NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS PER END. EACH CORNER IS SEALED WITH DOW 795 SEALANT.

FIXED INTERLOCK ATTACHMENT:

SQUARE CUT AT ENDS & INSERTED BETWEEN THE ADJOINING HEAD TRACK AND SILL TRACK RECEPTOR. THE RECEPTORS ARE MECHANICALLY ATTACHED TO THE FIXED INTERLOCK WITH 3 NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS. ENDS ARE SEALED WITH DOW 795 SEALANT.

PANEL CORNERS:

THE TOP & BOTTOM RAILS WERE SQUARE CUT, NOTCHED & BUTTED TO THE ADJACENT INTERLOCK STILE & LOCK OR LATCH STILE. THE INTERLOCK STILE & LOCK OR LATCH STILE WERE MECHANICALLY ATTACHED TO THE ADJACENT RAILS USING 2 NO. 12 X 2" TYPE AB HWH S.S. THREAD FORMING SCREWS PER CORNER. EACH CORNER IS SEALED WITH DOW 795 SEALANT.

FRAME ANCHOR LEGEND

▽ = ONE ROW OF ANCHORS AT ANCHOR LOCATIONS SHOWN

▼ = TWO ROWS OF ANCHORS AT ANCHOR LOCATIONS SHOWN

NOTE: SEE SECTIONS ON SHEETS 2 & 3 FOR ANCHOR LOCATIONS

ALLOWABLE DESIGN PRESSURE

+100/-105 PSF

SMALL MISSILE IMPACT RATED

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.

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. 10/12/11
CHECKED BY: W.W.S. 04/10/07
PLOT: 1=24
DATE: 04/10/07

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS	W.R.M.	10/12/11
A2	ADD NEW CASTER	W.R.M.	07/08/16
B1	CHANGE TO STATE APPROVAL	W.W.S.	07/31/17
C1	ADDED MISSING GASKET TO BILL IN SECTIONS B1 & B2		

DRAWING TITLE: HPS HO-100 SMALL MISSILE IMPACT SLIDING GLASS DOOR

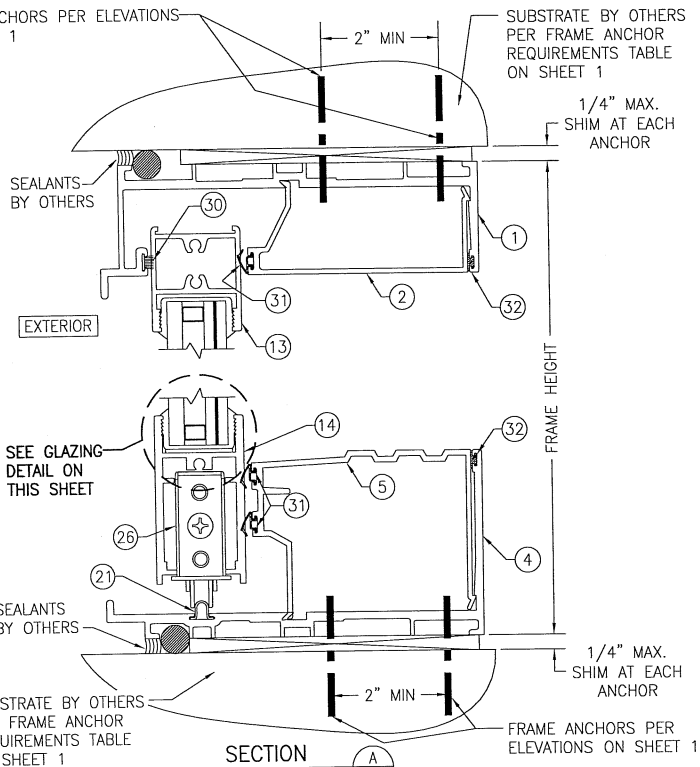
MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

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

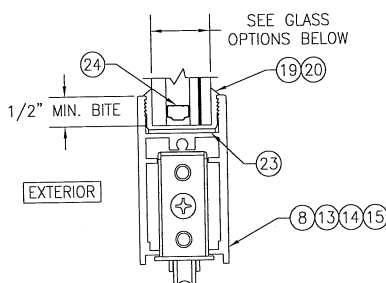
CERTIFICATION
AUG 01 2017
W. W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1522
SHEET NO. 1 OF 4

FRAME ANCHORS PER ELEVATIONS
ON SHEET 1



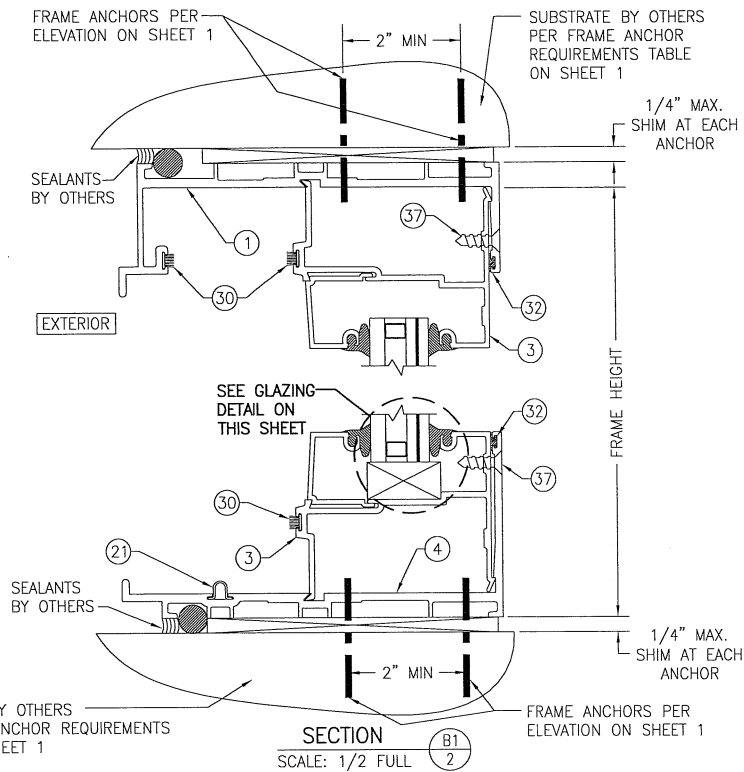
SECTION A-A
SCALE: 1/2 FULL



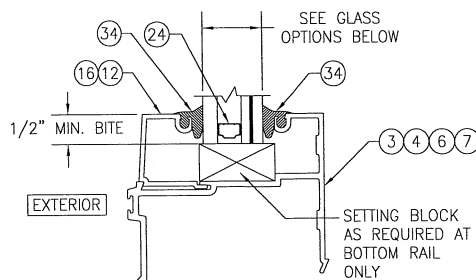
ACTIVE PANEL GLAZING DETAIL

GLASS OPTION 1: 1" LAMINATED I.G. (3/16" HT.ST./0.06" KURARAY (PREVIOUSLY DUPONT) BUTACITE PVB/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)
GLASS OPTION 2: 1" LAMINATED I.G. (3/16" HT.ST./0.06" EASTMAN CHEM. CO. Salfex/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)

FRAME ANCHORS PER
ELEVATION ON SHEET 1



SECTION B-B
SCALE: 1/2 FULL

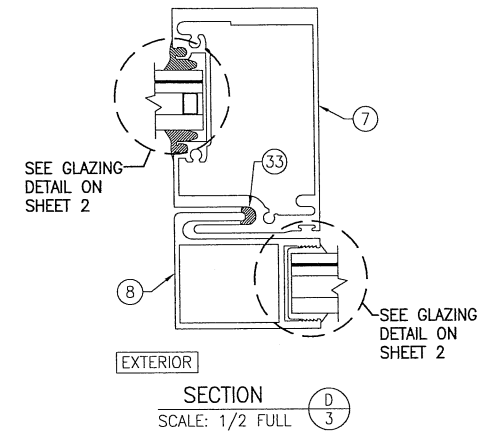
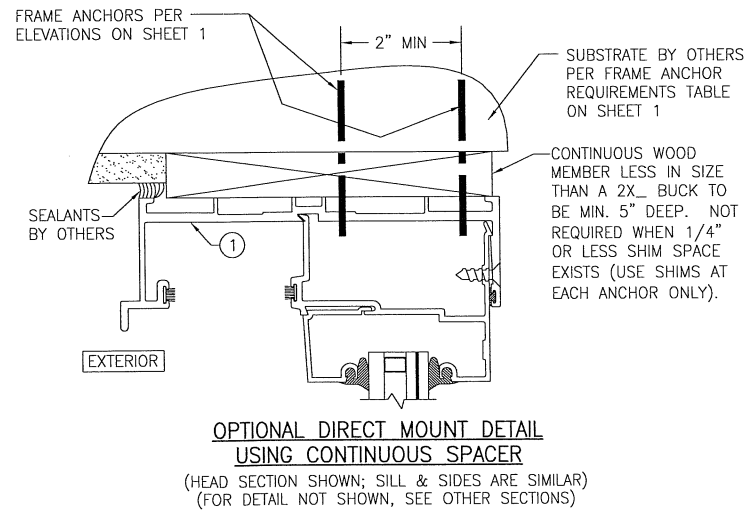
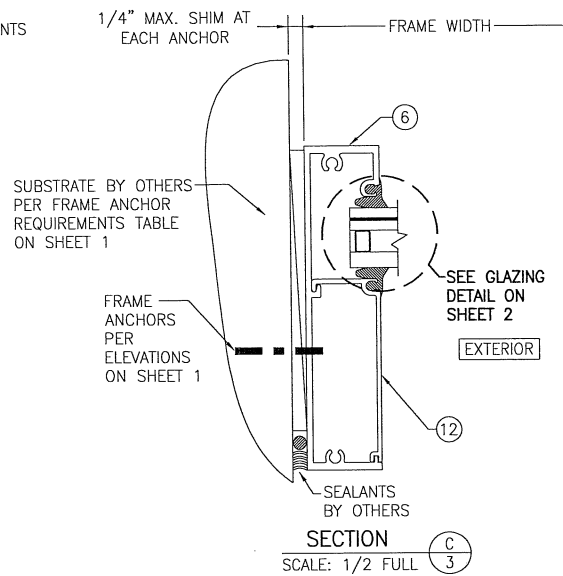
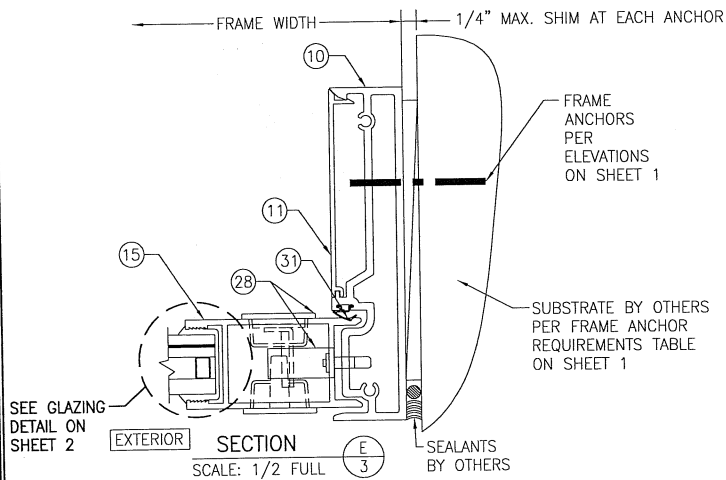
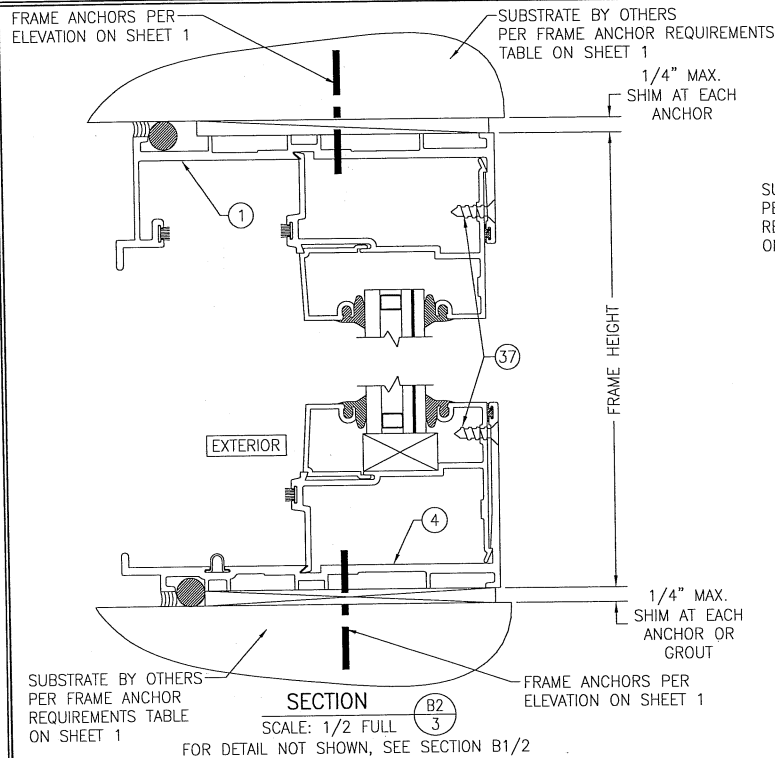


INACTIVE PANEL GLAZING DETAIL

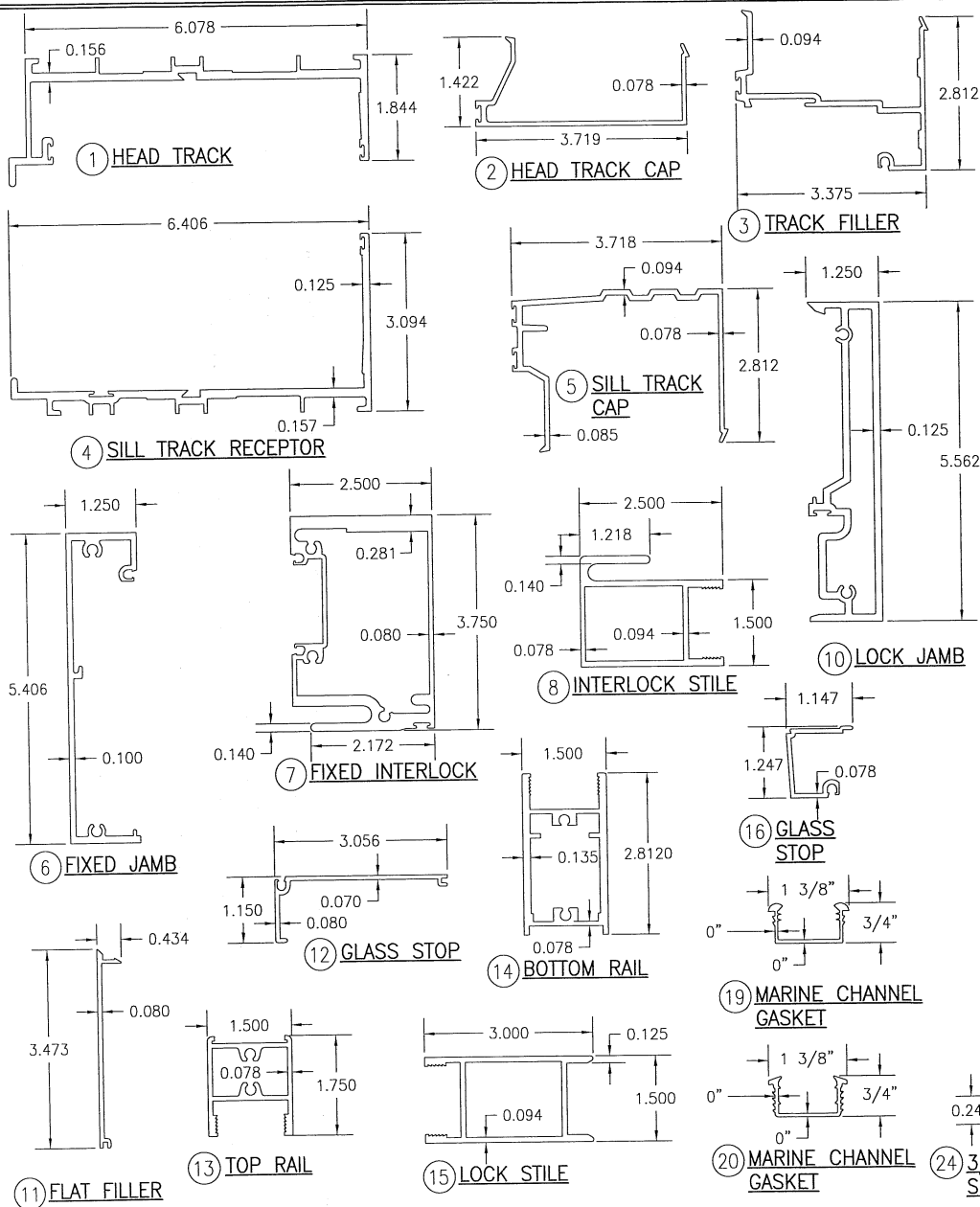
GLASS OPTION 1: 1" LAMINATED I.G. (3/16" HT.ST./0.06" KURARAY (PREVIOUSLY DUPONT) BUTACITE PVB/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)
GLASS OPTION 2: 1" LAMINATED I.G. (3/16" HT.ST./0.06" EASTMAN CHEM. CO. Salfex/3/16" HT.ST. INTERIOR; 3/8" AIR SPACE; 3/16" TEMP. EXTERIOR)

NOTE: RAIL CONDITION IS SHOWN. GLAZING TO STILES IS SIMILAR

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/10/07	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: HPS HC-100 SMALL MISSILE IMPACT SLIDING GLASS DOOR			
CONSULTANTS:		MANUFACTURER:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL		555 GUTHRIE COURT NORCROSS, GA 30092	
PHONE: 381-747-3424		770-449-5555	
CERTIFICATION	AUG 01 2007	REV.	C
DRAWING NO. 1522		SHEET NO. 2 OF 4	



DRAWN BY:	W.R.M.	CHECKED BY:	W.R.S.
PLT:	1-2	DATE:	04/10/07
DATE:			
BY:			
REVISION:	DESCRIPTION		
NO.			
DRAWING TITLE:	HPS HC-100 SMALL MISSILE IMPACT SLIDING GLASS DOOR		
MANUFACTURER:	KAMNEER 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:	AUG 01 2007 WARREN W. SCHAEFER, P.E. NO. 44135		
DRAWING NO.	1522	REV.	C
SHEET NO.	3	OF	4



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	592-001	HEAD TRACK	6063-T6 ALUMINUM
2	592-005	HEAD TRACK CAP	6063-T6 ALUMINUM
3	591-068	FIXED LITE TRACK FILLER	6063-T6 ALUMINUM
4	591-023	SILL TRACK RECEPTOR	6063-T6 ALUMINUM
5	592-027	SILL TRACK CAP	6063-T6 ALUMINUM
6	591-071	FIXED JAMB	6063-T6 ALUMINUM
7	591-031	FIXED INTERLOCK	6063-T6 ALUMINUM
8	591-035	INTERLOCK STILE	6063-T6 ALUMINUM
10	591-070	LOCK JAMB	6063-T6 ALUMINUM
11	162-021	FLAT FILLER	6063-T6 ALUMINUM
12	591-074	GLASS STOP	6063-T6 ALUMINUM
13	591-033	TOP RAIL	6063-T6 ALUMINUM
14	591-034	BOTTOM RAIL	6063-T6 ALUMINUM
15	591-039	LOCK STILE	6063-T6 ALUMINUM
16	591-004	GLASS STOP	6063-T6 ALUMINUM
19	925-577	MARINE CHANNEL GASKET	TEKNORAPEX APEX 3169 PVC DUROMETER = 69; TENSILE STRENGTH = 1700 PSI; ELONGATION AT BREAK = 410%; SPECIFIC GRAVITY = 1.35
20	127-134	MARINE CHANNEL GASKET	TREMCO PART #TR-14015E EPDM 70 DUROMETER +/-5
21	925-393	ROLLER GUIDE INSERT	STAINLESS STEEL
22	027-073	1.25 X 0.625 SETTING BLOCK	EPDM
23	127-097	1.125 X 0.062 SETTING BLOCK	EPDM
24	-	3/8" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
HARDWARE			
26	594-451	TANDEM CASTER ASSEMBLY	VPL ENTERPRISES 8900 SERIES S.S.
28	911-581	LATCH LOCK	ADAMS RITE 1847 (STAINLESS STEEL)
29	089-411	LOCK STRIKE & BACKER PLATE	STAINLESS STEEL
SEALS AND SEALANTS			
30	027-088	PILE WEATHER STIPPING	PB 9322 POLY BOND
31	027-110	40 DUROMETER WEATHERING GASKET	G.E. GELOY/DUPONT HYTREL
32	027-579	BULB WEATHER STRIP	INTEK #50230A
33	590-412	INTERLOCK BUMPER	EPDM BY KRP
34	027-077	GLAZING WEDGE GASKET	TRELLEBORG BRM-270400 EPDM 70 DUROMETER
MISC. FASTENERS			
37	128-107	NO. 12-24 X 3/4" PFHTFS	4 AT EACH TOP & BOTTOM RAIL OF FIXED PANEL

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/10/07	
DATE	BY	REVISION	DESCRIPTION
NO	NO	NO	NO
DRAWING TITLE: HPS HC-100 SMALL MISSILE IMPACT SLIDING GLASS DOOR			
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: 561-741-3424			
DRAWING NO. 1522 SHEET NO. 4 OF 4			