

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 BOTH SMALL & LARGE MISSILE IMPACT RATED.
5. WHEN GLAZED FOR SMALL MISSILE IMPACT, 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.
6. WHEN LARGE MISSILE IMPACT GLAZED, IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. 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.
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 FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
10. 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.
11. 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.

CORNER CONSTRUCTION:

FRAME: MEMBERS ARE MITERED & JOINED VIA A FRAME SPLICE JOINT KEY (ITEM #16) AND A FRAME CORNER KEY (ITEM #12). CORNERS ARE SEALED WITH SILICONE SEALANT.

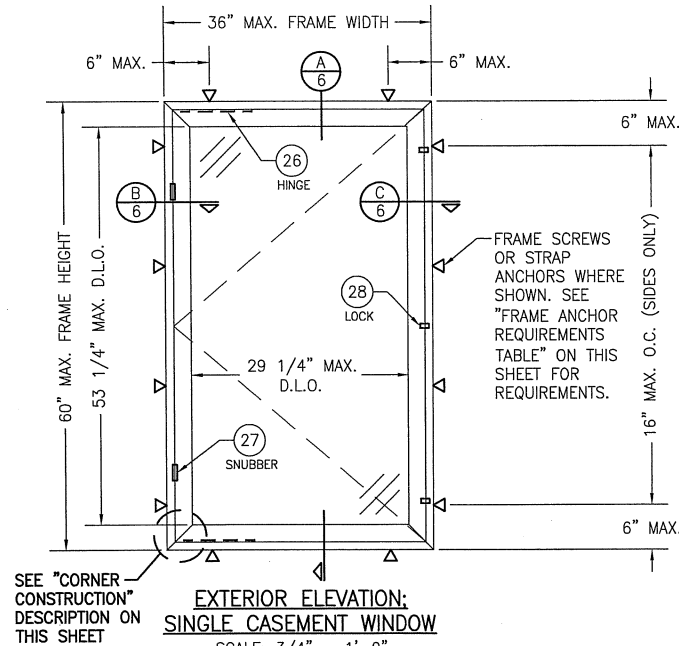
SASH: MEMBERS ARE MITERED & JOINED VIA TWO SASH CORNER KEYS (ITEMS #13 & #14). CORNERS ARE SEALED WITH SILICONE SEALANT.

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.
CHECKED BY: W.W.S.
PLOT: 1-18
DATE: 01/08/14

NO.	REVISION DESCRIPTION	DATE	BY
A1	UPDATE TO PRESENT STANDARDS	12/15/14	W.W.S.



FRAME ANCHOR REQUIREMENTS TABLE

FRAME, STRAP ANCHOR & MULLION CLIP SCREWS

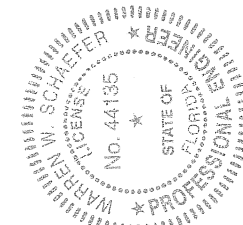
OPENING TYPE (SUBSTRATE)	FRAME/STRAP/MULLION CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
(2) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	1"
MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.100" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

(1) 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.).

(2) WHEN STRAP ANCHOR INSTALLED, THE 2X_ BUCK SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 5"

ALLOWABLE DESIGN PRESSURE
(ALL CONDITIONS SHOWN)

+/-80 PSF



DRAWING TITLE: AA4-325 LARGE & SMALL IMPACT CASEMENT WINDOW

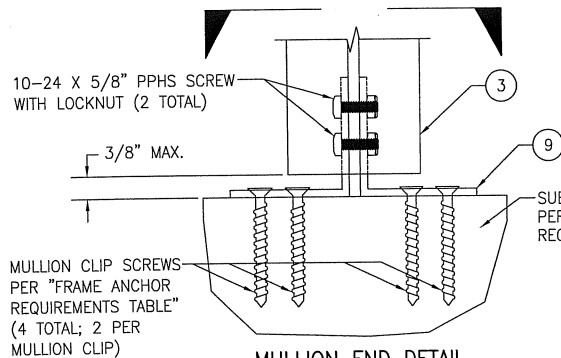
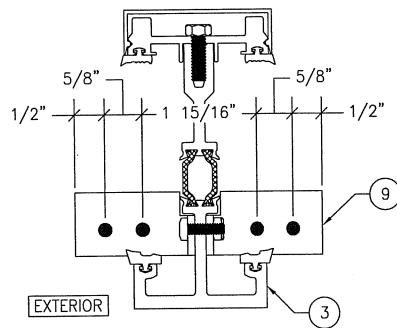
MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

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

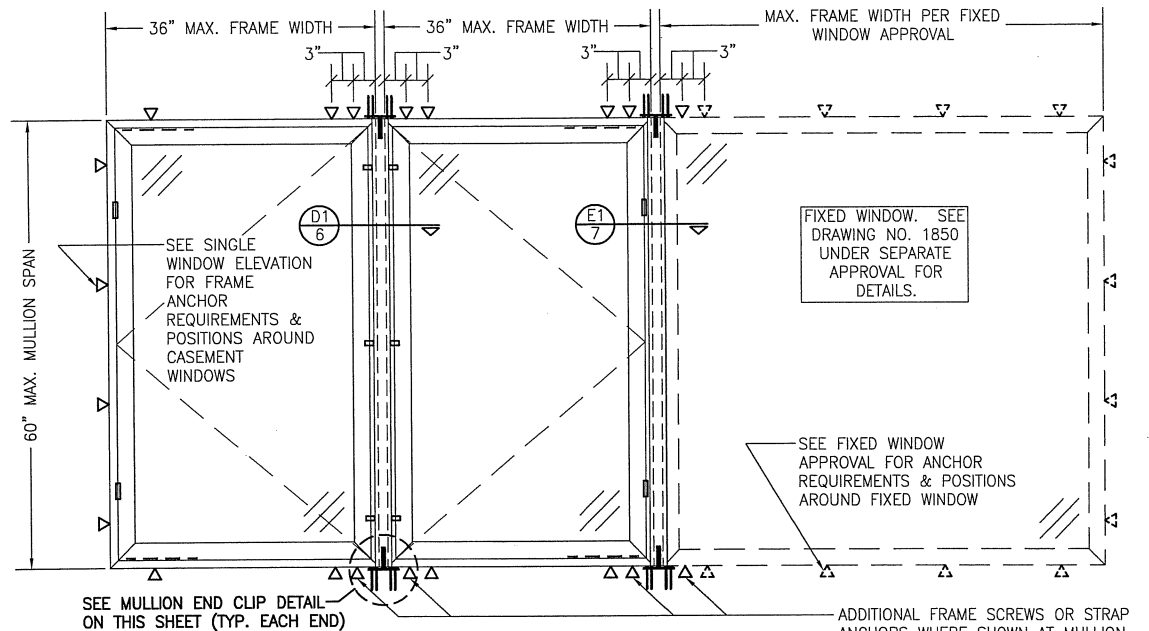
CERTIFICATION
JAN 06 2015

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1851
SHEET NO. 1 OF 9
REV. A



MULLION END DETAIL
(WINDOW FRAMES NOT SHOWN FOR CLARITY)

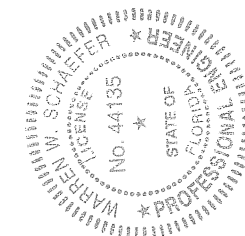


**EXTERIOR ELEVATION:
MULTIPLE CASEMENT/FIXED WINDOWS IN
SEPARATE FRAMES**

SCALE: 3/4" = 1'-0"

MULTIPLE UNIT NOTES:

1. FOR CASEMENT DETAIL NOT SHOWN, SEE INDIVIDUAL WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED HORIZONTALLY IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
3. ANY COMBINATION OF FIXED/OPERABLE WINDOWS IN ONE OPENING SHALL APPLY.
4. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.



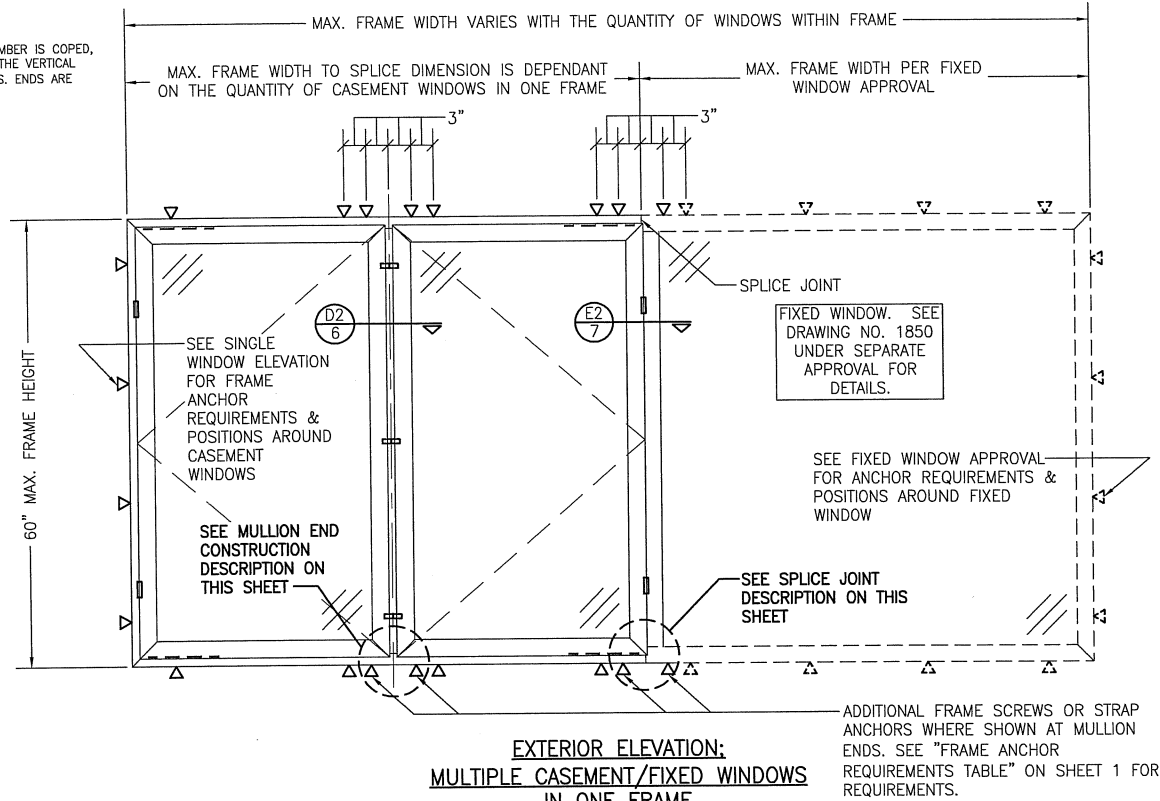
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 01/08/14
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE AA4325 LARGE & SMALL IMPACT CASEMENT WINDOW	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JAN 06 2015	REV. 1851
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	2 OF 9

SPLICE JOINT DESCRIPTION:

HORIZONTAL MEMBERS ARE NOTCHED, BUTTED & JOINED VIA TWO SPLICE JOINT KEYS (ITEM #17). THE VERTICAL STANDARD MULLION IS SQUARE CUT AND JOINED TO EACH HORIZONTAL FRAME MEMBER WITH 4 NO. 10 X 1 1/2" S.S. PPHS (2 PER JOINT KEY) THROUGH THE HORIZONTAL MEMBERS INTO THE VERTICAL MEMBER SCREW SPLINES. SPLICE JOINT AND ENDS ARE SEALED WITH SILICONE SEALANT.

MULLION END CONSTRUCTION DESCRIPTION:

HORIZONTAL MEMBER RUNS THROUGH WHILE THE VERTICAL MEMBER IS COPED, BUTTED & JOINED THROUGH THE HORIZONTAL MEMBERS INTO THE VERTICAL MEMBER SCREW SPLINES WITH 4 NO. 10 X 1 1/2" S.S. PPHS. ENDS ARE SEALED WITH SILICONE SEALANT.

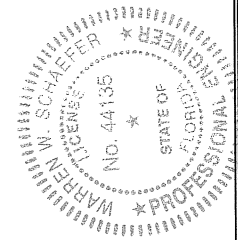


EXTERIOR ELEVATION: MULTIPLE CASEMENT/FIXED WINDOWS IN ONE FRAME

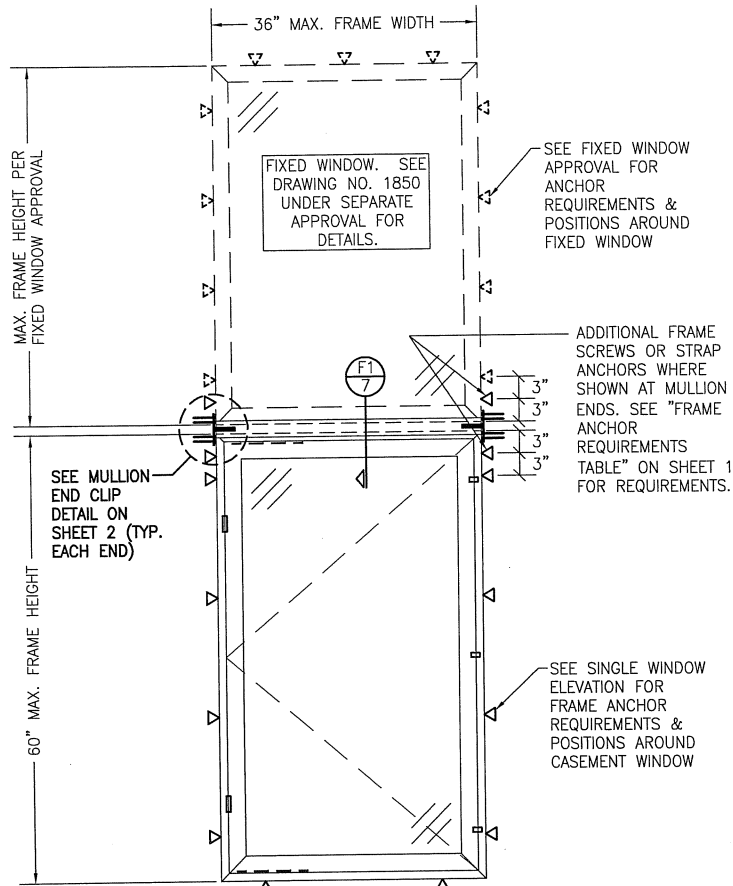
SCALE: 3/4" = 1'-0"

MULTIPLE UNIT NOTES:

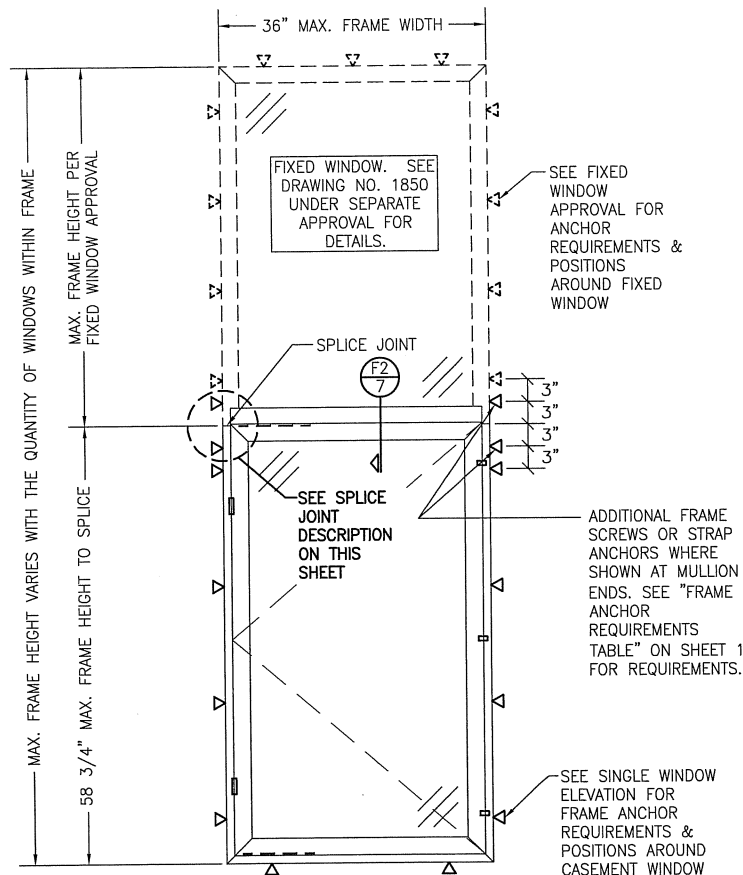
1. FOR CASEMENT DETAIL NOT SHOWN, SEE INDIVIDUAL WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED HORIZONTALLY IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
3. ANY COMBINATION OF FIXED/OPERABLE WINDOWS IN ONE OPENING SHALL APPLY.
4. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=18	DATE: 01/08/14
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE AA4325 LARGE & SMALL IMPACT CASEMENT WINDOW	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	P.E. WARREN W. SCHAEFER NO. 44135
CERTIFICATION JAN 06 2015	
DRAWING NO. 1851	REV.
SHEET NO. 3	OF 9



EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW WITH FIXED TRANSOM
IN SEPARATE FRAMES
 SCALE: 3/4" = 1'-0"

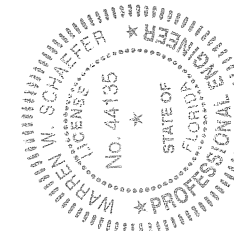


EXTERIOR ELEVATION:
SINGLE CASEMENT WINDOW WITH FIXED TRANSOM
IN ONE FRAME
 SCALE: 3/4" = 1'-0"

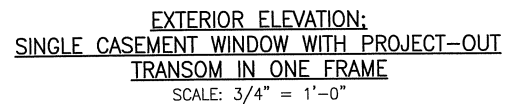
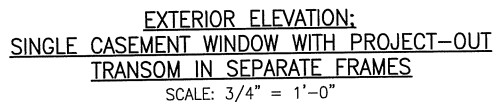
SPLICE JOINT DESCRIPTION:
 VERTICAL MEMBERS ARE NOTCHED, BUTTED & JOINED VIA TWO SPLICE JOINT KEYS (ITEM #17). THE HORIZONTAL STANDARD MULLION IS SQUARE CUT AND JOINED TO EACH HORIZONTAL FRAME MEMBER WITH 4 NO. 10 X 1 1/2" S.S. PPHS (2 PER JOINT KEY) PHTFS THROUGH THE VERTICAL MEMBERS INTO THE HORIZONTAL MEMBER SCREW SPLINES. SPLICE JOINT AND ENDS ARE SEALED WITH SILICONE SEALANT.

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3. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.

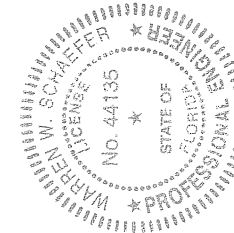


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=18		DATE: 01/08/14	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE AA4325 LARGE & SMALL IMPACT CASEMENT WINDOW			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JAN 06 2015 WARREN W. SCHAEFER, P.E. No. 44135			
DRAWINGS NO. 1851		REV.	
SHEET NO. 4 OF 9			

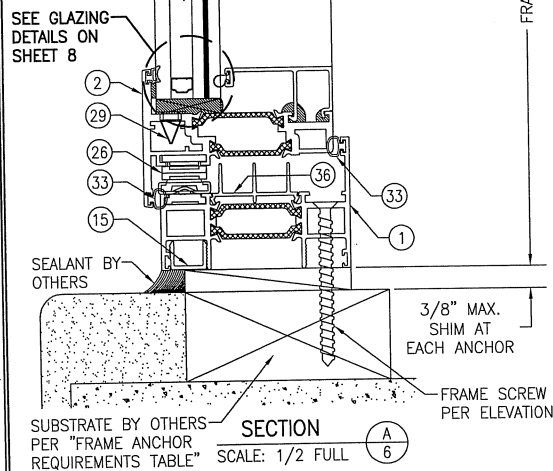
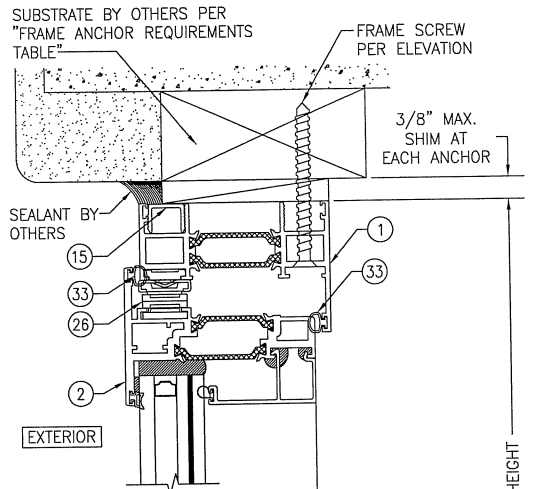


VERTICAL MEMBER RUNS THROUGH WHILE THE
HORIZONTAL MEMBER IS COPED, BUTTED & JOINED
THROUGH THE VERTICAL MEMBERS INTO THE HORIZONTAL
MEMBER SCREW SPLINES WITH 4 NO. 10 X 1 1/2" S.S.
PPHS. ENDS ARE SEALED WITH SILICONE SEALANT.

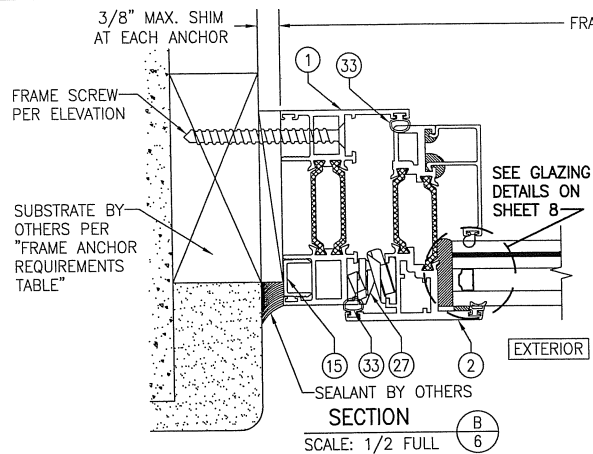
1. FOR CASEMENT DETAIL NOT SHOWN, SEE INDIVIDUAL WINDOW ELEVATION.
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3. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.



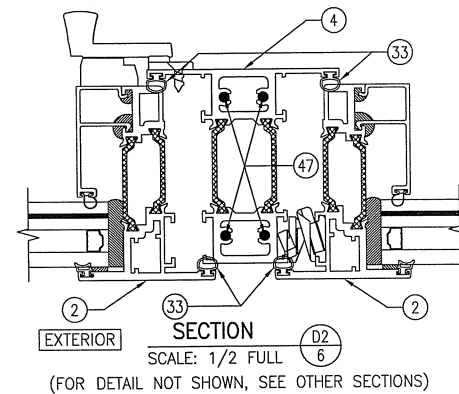
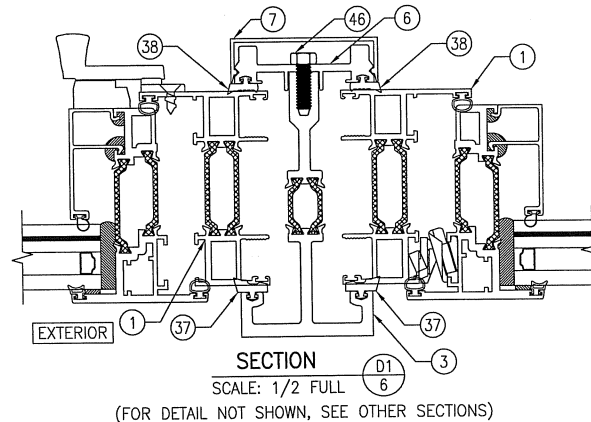
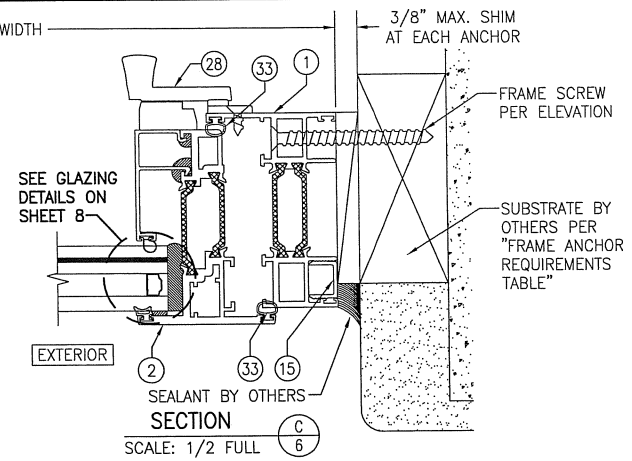
CERTIFICATION JAN 06 2015	DRAWING NO. 1851 SHEET NO. 5 OF 9		DRAWING TITLE AA4325 LARGE & SMALL IMPACT CASEMENT WINDOW	NO. 1 REVISION DESCRIPTION BY DATE	NO. 1 REVISION DESCRIPTION BY DATE	DRAWN BY: W.S.U. CHECKED BY: W.W.S. DATE: 01/08/14
	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH, FL 33418 PHONE: 561-744-3424					
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555						



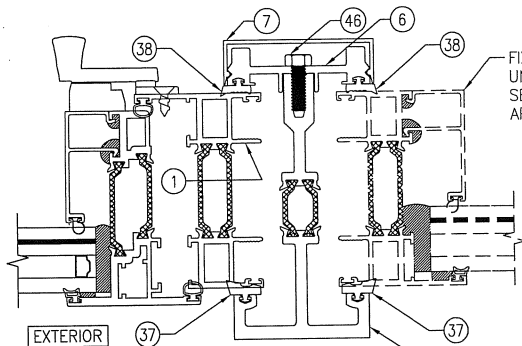
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 7 FOR DIRECT MOUNT & STRAP ANCHOR MOUNT DETAILS.



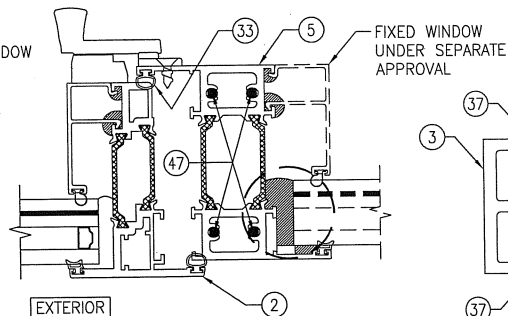
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 7 FOR DIRECT MOUNT & STRAP ANCHOR MOUNT DETAILS.



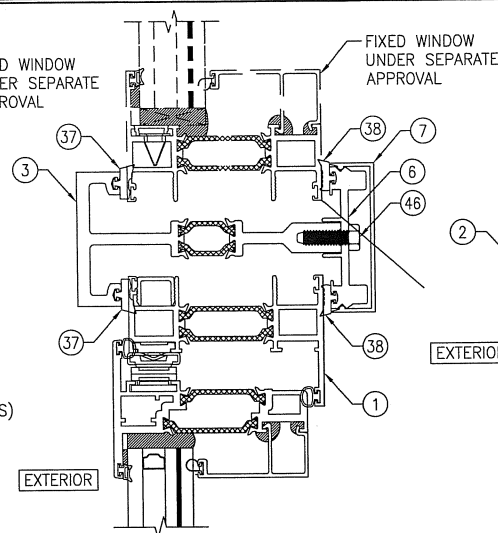
DRAWN BY: W.S.M.	CHECKED BY: W.S.
PLOT: 1=2	DATE: 01/08/14
DATE	BY
REVISION DESCRIPTION	NO
DRAWING TITLE AA4325 LARGE & SMALL IMPACT CASEMENT WINDOW	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JAN 06 2015	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1851	REV. A
SHEET NO. 6	OF 9



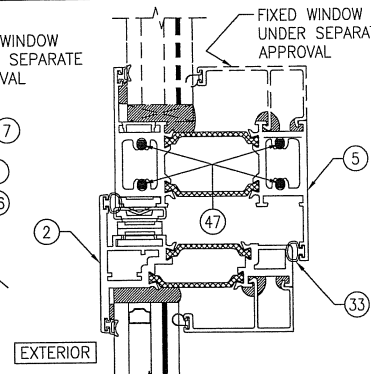
SECTION E1
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



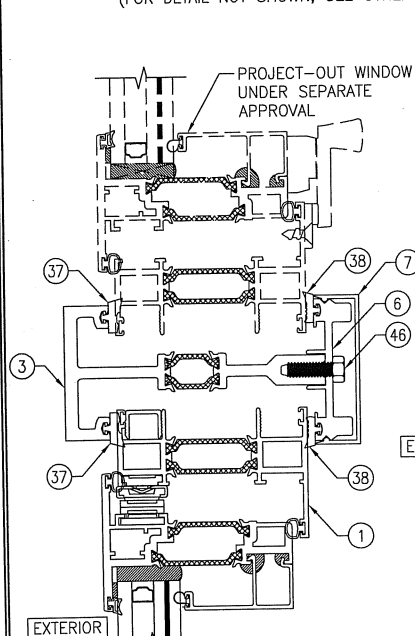
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(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



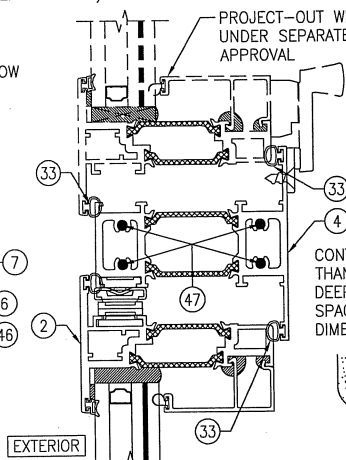
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(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION F2
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

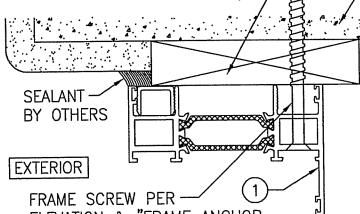


SECTION G1
SCALE: 1/2 FULL



SECTION G2
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).

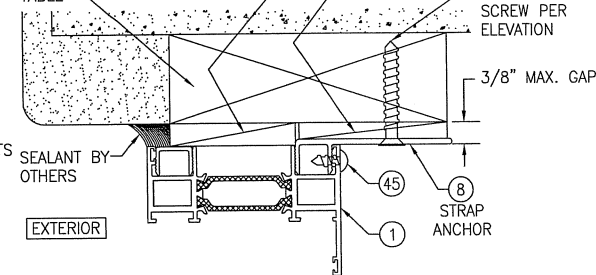


SEALANT BY OTHERS
FRAME SCREW PER ELEVATION & "FRAME ANCHOR REQUIREMENTS TABLE"

OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

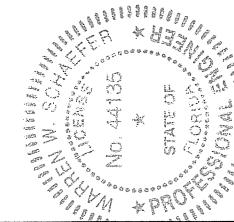
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE"



OPTIONAL STRAP ANCHOR DETAIL

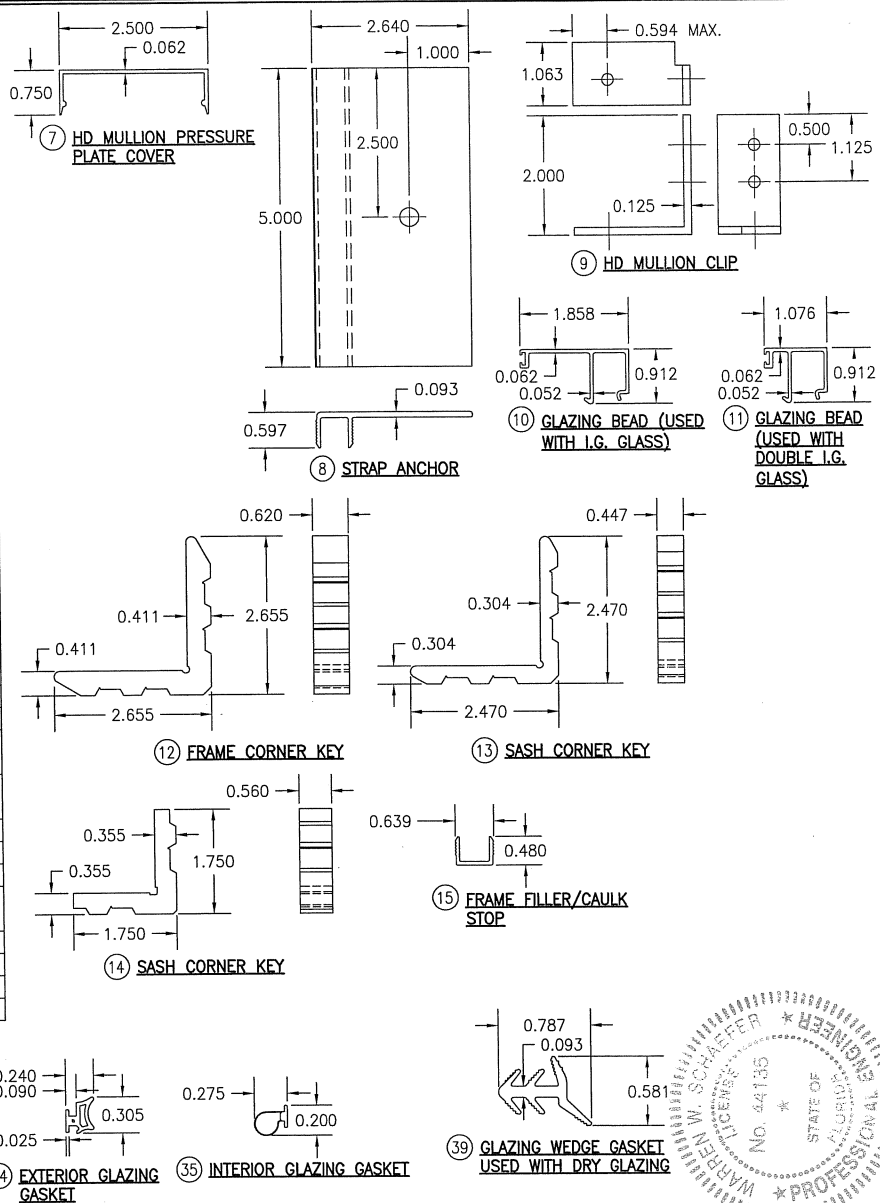
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 01/08/14
DATE	
BY	
REVISION DESCRIPTION	
NO	
DRAWING TITLE: AA4325 LARGE & SMALL IMPACT CASEMENT WINDOW	
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: JAN 06 2015	P.E. NO. 44135
DRAWINGS NO. 1851	REV. A
SHEET NO. 7	OF 9

[illegible]

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME	6063-T6 ALUMINUM
2	STILES & RAILS	6063-T6 ALUMINUM
3	HD MULLION	6063-T6 ALUMINUM
4	STANDARD MULLION USED WITH CASEMENT TO CASEMENT OR CASEMENT TO PROJECT-OUT	6063-T6 ALUMINUM
5	STANDARD MULLION USED WITH CASEMENT TO FIXED	6063-T6 ALUMINUM
6	HD MULLION PRESSURE PLATE	6063-T6 ALUMINUM
7	HD MULLION PRESSURE PLATE COVER	6063-T6 ALUMINUM
8	STRAP ANCHOR	6063-T6 ALUMINUM
9	HD MULLION MULLION CLIP	6063-T6 ALUMINUM
10	GLAZING BEAD (USED WITH I.G. GLASS)	6063-T6 ALUMINUM
11	GLAZING BEAD (USED WITH DOUBLE I.G. GLASS)	6063-T6 ALUMINUM
12	FRAME CORNER KEY	6063-T5 ALUMINUM
13	SASH CORNER KEY	6063-T5 ALUMINUM
14	SASH CORNER KEY	6063-T5 ALUMINUM
15	FRAME FILLER/CAULK STOP	PVC
16	FRAME SPLICE JOINT KEY	FRESH LINK INDUSTRIAL 30-4305.00 CAST ALUMINUM
18	FRAME & STANDARD MULLION POLYAMIDE	TECATHERM-66-GF
19	STILES & RAILS POLYAMIDE	TECATHERM-66-GF
20	HD MULLION POLYAMIDE	TECATHERM-66-GF
21	STANDARD MULLION POLYAMIDE	TECATHERM-66-GF
22	I.G. SPACER	3005 OR 3105 ALUMINUM
HARDWARE		
26	4-BAR HINGE	ADVANTAGE MANUFACTURING 55-316
27	SNUBBER (2 PER WINDOW)	FRESH LINK INDUSTRIAL 30-3709 CAST ZINC
28	CAMLOCK & KEEPER (3 PER WINDOW)	FRESH LINK INDUSTRIAL 30-3718, 30-3719 & 30-4270
29	WEEP VALVE (2 PER WINDOW)	LAUREN MANUFACTURING 30-4458
SEALS & SEALANTS		
33	BULB GASKET	TRELLEBORG 8285-01-00 ALCRYN/PVC
34	EXTERIOR GLAZING GASKET	LAUREN MANUFACTURING 20-4246 DENSE SILICONE DUROMETER 75
35	INTERIOR GLAZING GASKET	AMESBURY XC-1185 FOAM-TITE BULB DUROMETER FOAM 67 DUROMETER SKIN 87
36	SASH GASKET	AMESBURY PP2687 RIGID/FLEXIBLE PVC
37	WEDGE GASKET	TREMCO TR-396N NEOPRENE SPONGE
38	WEDGE GASKET	TREMCO TR-1019E EPDM
39	GLAZING WEDGE GASKET USED WITH DRY GLAZING	TRELLEBORG 8538-02-00 SILICONE DUROMETER 70 +/-5
FASTENERS		
45	10-16 X 1/2" PPH TEK SCREW	1 PER STRAP ANCHOR
46	1/4-20 X 3/4" HH MS	WITHIN 3" OF ENDS & 9" MAX. O.C.
47	NO. 10 X 1 1/2" PPH 410 S.S. SCREW	4 PER STANDARD MULLION



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 01/08/14
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: AA4325 LARGE & SMALL IMPACT CASEMENT WINDOW	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: JAN 06 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWINGS NO. 1851	REV. A
SHEET NO. 9	OF 9