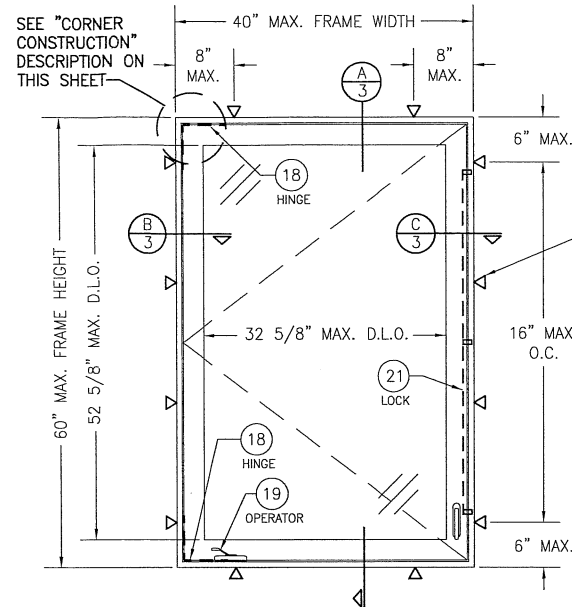


1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE 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 $K_d = 0.85$ MAY BE APPLIED PER THE ASCE.
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. PRODUCTS SHOWN HEREIN 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.

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 CONSULT WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

LOCK STRIKE QUANTITY REQUIREMENTS	
FRAME HEIGHT	QUANTITY PER PANEL
OVER 38"	3
38" AND LESS	2



FRAME SCREWS OR
INSTALLATION CLIPS
WHERE SHOWN. SEE
"FRAME ANCHOR
REQUIREMENTS TABLE"
K. ON THIS SHEET FOR
REQUIREMENTS.

EXTERIOR ELEVATION;
SINGLE CASEMENT WINDOW
SCALE: 3/4" = 1'-0"

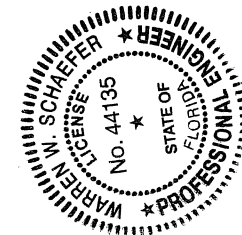
ALLOWABLE DESIGN PRESSURE (ALL UNITS)
+70/-70 PSF

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS SCREW	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 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.).

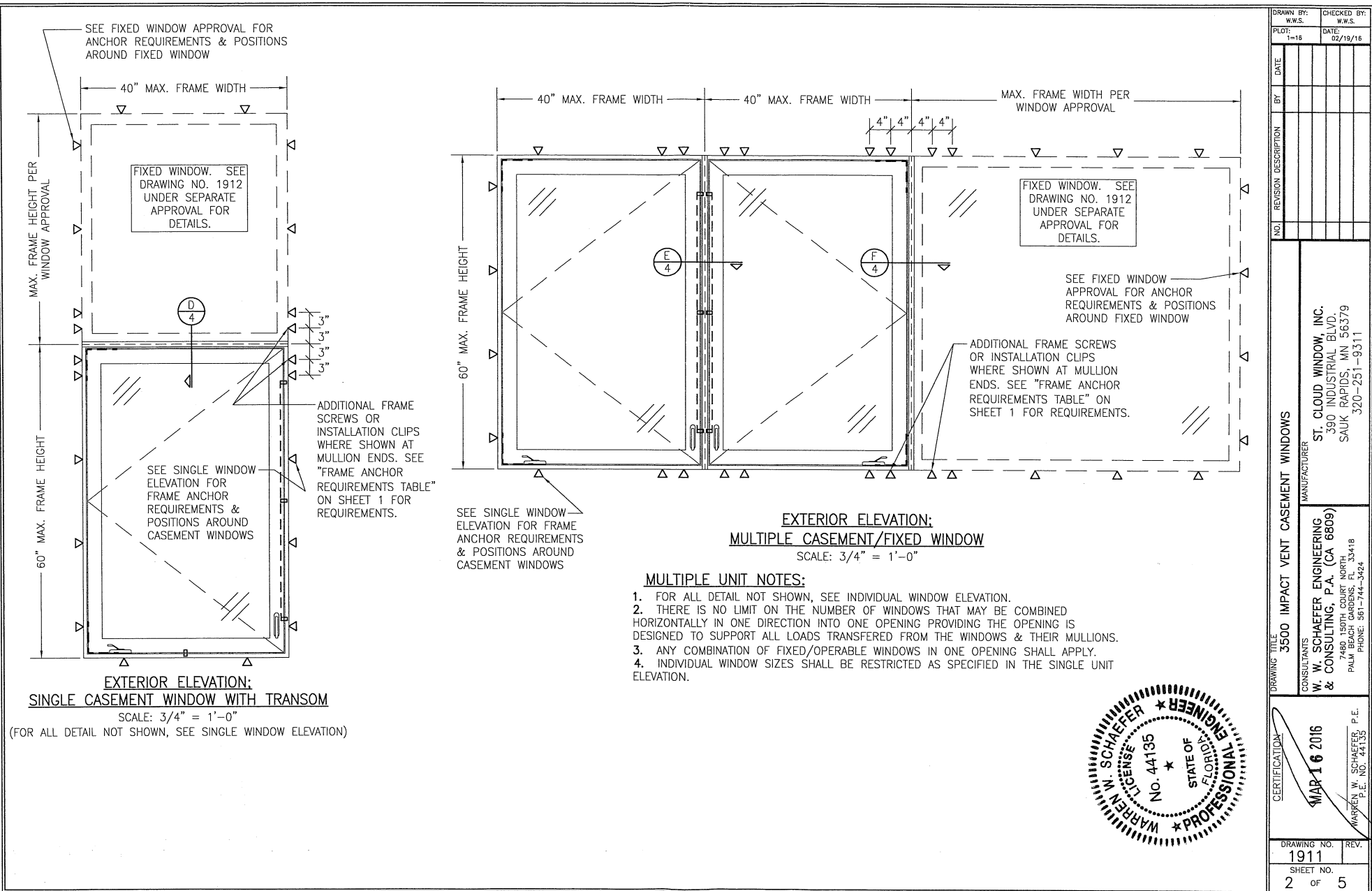
FRAME: FRAME MEMBERS ARE MITER CUT, JOINED WITH 2 CORNER KEYS AND SEALED WITH DOW 1199 SEALANT. CORNER KEYS ARE SECURED WITH M6 X 14.8 mm MACHINE SCREWS (1 AT EACH KEY LEG) THROUGH THE FRAME MEMBER.

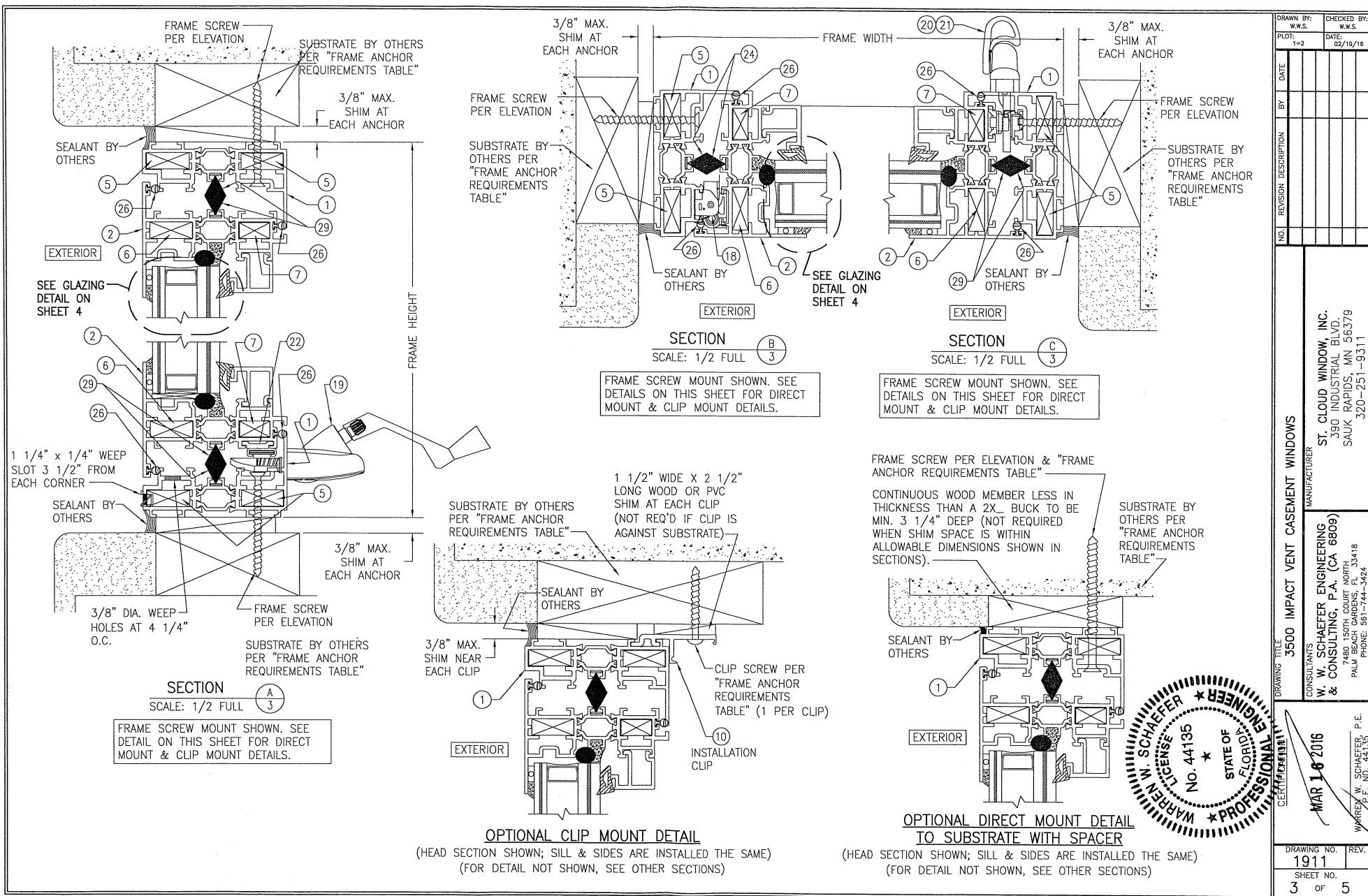
SASH: SASH MEMBERS ARE MITER CUT, JOINED WITH 2 CORNER KEYS AND SEALED WITH DOW 1199 SEALANT. CORNER KEYS ARE SECURED WITH M6 X 14.8 mm MACHINE SCREWS (1 AT EACH KEY LEG) THROUGH THE SASH MEMBER.



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.

DRAWING NO. 1911	SHEET NO. 5 OF	REV.	CERTIFICATION MAR 16 2016 W. W. SCHAEFER P.E. NO. 44163	DRAWING TITLE 3500 IMPACT VENT CASEMENT WINDOWS	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 72ND EIGHTH AVENUE PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424				MANUFACTURER ST. CLOUD WINDOW, INC. 330 INDUSTRIAL BLVD. SAUK RAPIDS, MN 56379 320-251-9311			
					DRAWN BY: W.W.S.				CHECKED BY: W.W.S.			
PLOT: 1=16		DATE: 02/19/16		NO.		REVISION DESCRIPTION		BY		DATE		





DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 02/19/16	
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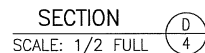


Diagram illustrating the assembly of a window frame with various components labeled:

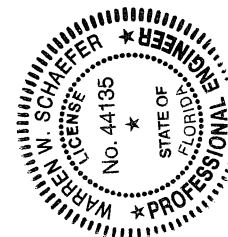
- CONTINUOUS FILLET BEAD OF SILICONE SEALANT EACH SIDE OF EACH COVER
- FIXED WINDOW FRAME
- DOW 1199 SILICONE SEALANT
- 1" X 1/32" 3M VHB TAPE

The diagram shows a cross-section of a window assembly with multiple panes and frames. Callouts 1 through 9 indicate the sequence of assembly steps, including the application of VHB tape, silicone sealant, and the installation of the window frame and covers.

Diagram illustrating the cross-section of a window assembly, showing the following components and materials:

- BACKER ROD**: A rod used to support the sealant.
- DOW 791 SILICONE SEALANT**: The primary sealant used for weatherproofing.
- SILICONE SEALANT**: A secondary sealant layer.
- EXTERIOR**: The outer side of the window assembly.
- MIN. BITE**: A dimension indicating the minimum overlap of the sealant.
- 3/4" DOW 791 SILICONE SEALANT CAP BEAD**: A cap bead applied to the sealant.
- 1 5/8" THICK I.G. GLASS**: The main glass pane.
- (1/8" AN/0.03 EASTMAN CHEM. CO. SFALEX/1/8" AN EXTERIOR; 3/4" SPACER; 1/4" AN/0.09 KURARAY (PREVIOUSLY DUPONT) BUTACITE PVB/1/4" AN INTERIOR)**: The interlayer material between the glass panes.
- 27**: A reference number for the main glass pane.
- 28**: A reference number for the sealant bead.
- 2**: A reference number for the outer frame or sash.
- 3**: A reference number for the inner frame or sash.
- 4**: A reference number for the spacer bar.

NOTE: 1/8" X 1" X 2" SILICONE SETTING BLOCKS SHALL BE USED AT THE BOTTOM OF THE GLASS BETWEEN THE GLASS EDGE AND SASH (QUANTITY AS REQUIRED TO SUPPORT GLASS FOR GLAZING)



DRAWING NO.		1911		REV.	
4		OF		5	
CERTIFICATION		 MAR 18 2016 WARREN W. SCHAEFFER, P.E.			
DRAWING TITLE		3500 IMPACT VENT CASEMENT WINDOWS			
CONSULTANTS		W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, SUITE 104 PALM BEACH GARDENS, FL 33418 PALM BEACH, FL 33404			
MANUFACTURER		ST. CLOUD WINDOW, INC. 390 INDUSTRIAL BLVD. SAUK RAPIDS, MN 56379 320-251-9311			
NO.	REVISION DESCRIPTION	BY	DATE	DRAWN BY: W.W.S. CHECKED BY: W.W.S. PLOT: 1-2 DATE: 02/18/16	

