

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 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-7 STANDARD.
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/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.
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.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

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.

SEE "CORNER CONSTRUCTION" DESCRIPTION ON THIS SHEET

EXTERIOR ELEVATION; SINGLE HUNG WINDOW

SCALE: N.T.S.

ALLOWABLE PRESSURE (SINGLE & MULTIPLE WINDOWS)

FRAME HEIGHT	ALLOWABLE PRESSURE	
	POSITIVE	NEGATIVE
(1) 84" & LESS	70 PSF	85 PSF
OVER 84"	60 PSF	70 PSF

(1) HIGHER PRESSURES ARE ONLY APPLICABLE WITH GLASS OPTIONS #2 & #3. GLASS OPTION #1 IS RESTRICTED TO +60/-70 PSF REGARDLESS OF WINDOW SIZE.

CORNER CONSTRUCTION:

WOOD HEAD JAMB: MITERED AND SECURED WITH THREE (3) NO. 8 X 2" S.S. WOOD SCREWS THRU HEAD JAMB INTO SIDE JAMBS & (2) NO. 8 X 2" S.S. WOOD SCREWS THRU SIDE JAMBS INTO HEAD JAMB

WOOD SILL JAMB: SIDE JAMBS ARE BUTTED TO SILL AND SECURED WITH (2) NO. 8 X 2" WOOD SCREWS & (2) NO. 8 X 3" WOOD SCREWS THROUGH SILL INTO SIDE JAMBS.

JAMB CLAD: MITERED AND SECURED WITH ONE (1) NO. 6 X 1 1/4" S.S. WOOD SCREW THRU HEAD CLAD INTO SIDE JAMB CLAD SCREW BOSS

WOOD SASH: BUTTED WITH MORTISE & TENON AND GLUED WITH FRANKLIN MULTI-BOND WOOD GLUE

SASH CLAD: BUTTED AND SLID ONTO WOOD MEMBERS

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.

EXTERIOR ELEVATION; MULTIPLE SINGLE HUNG WINDOWS

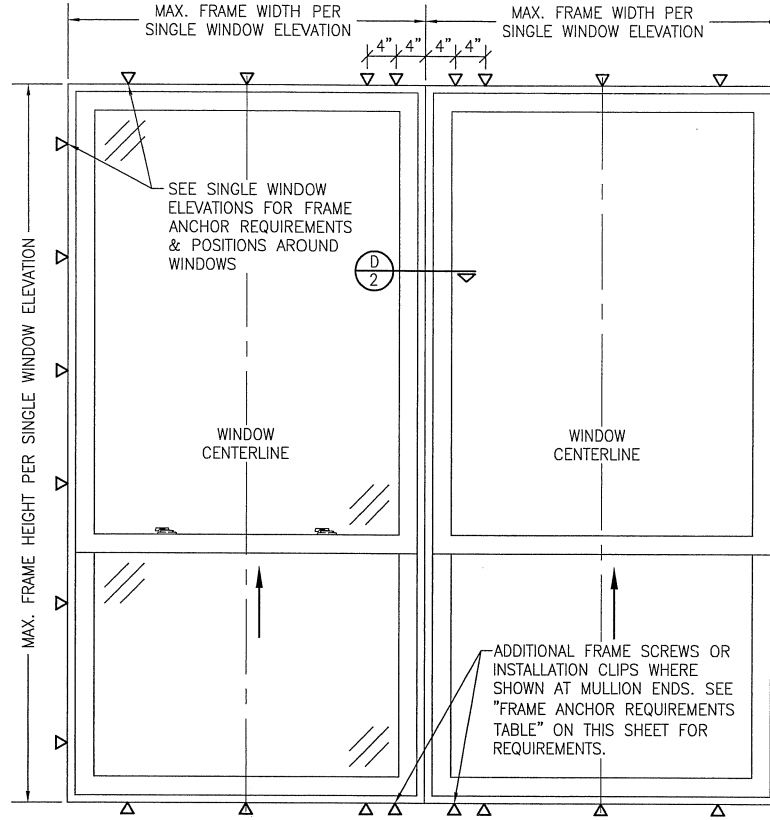
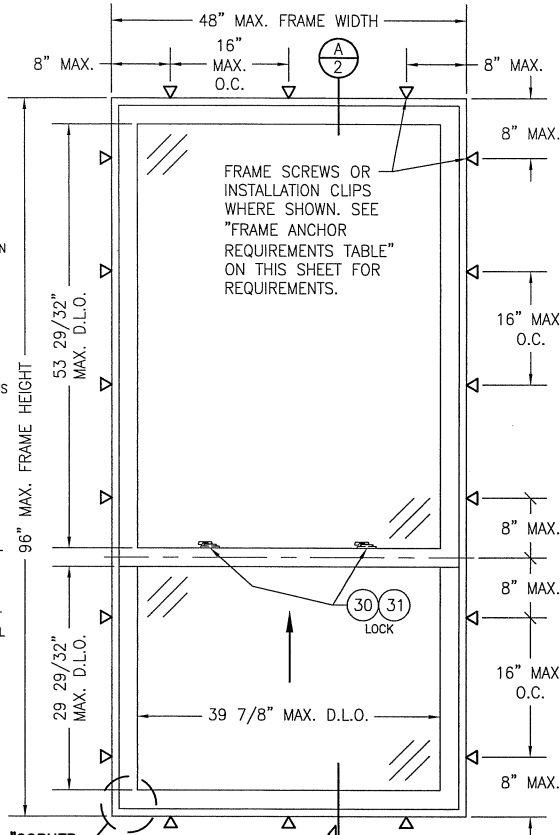
SCALE: N.T.S.

MULTIPLE UNIT NOTES:

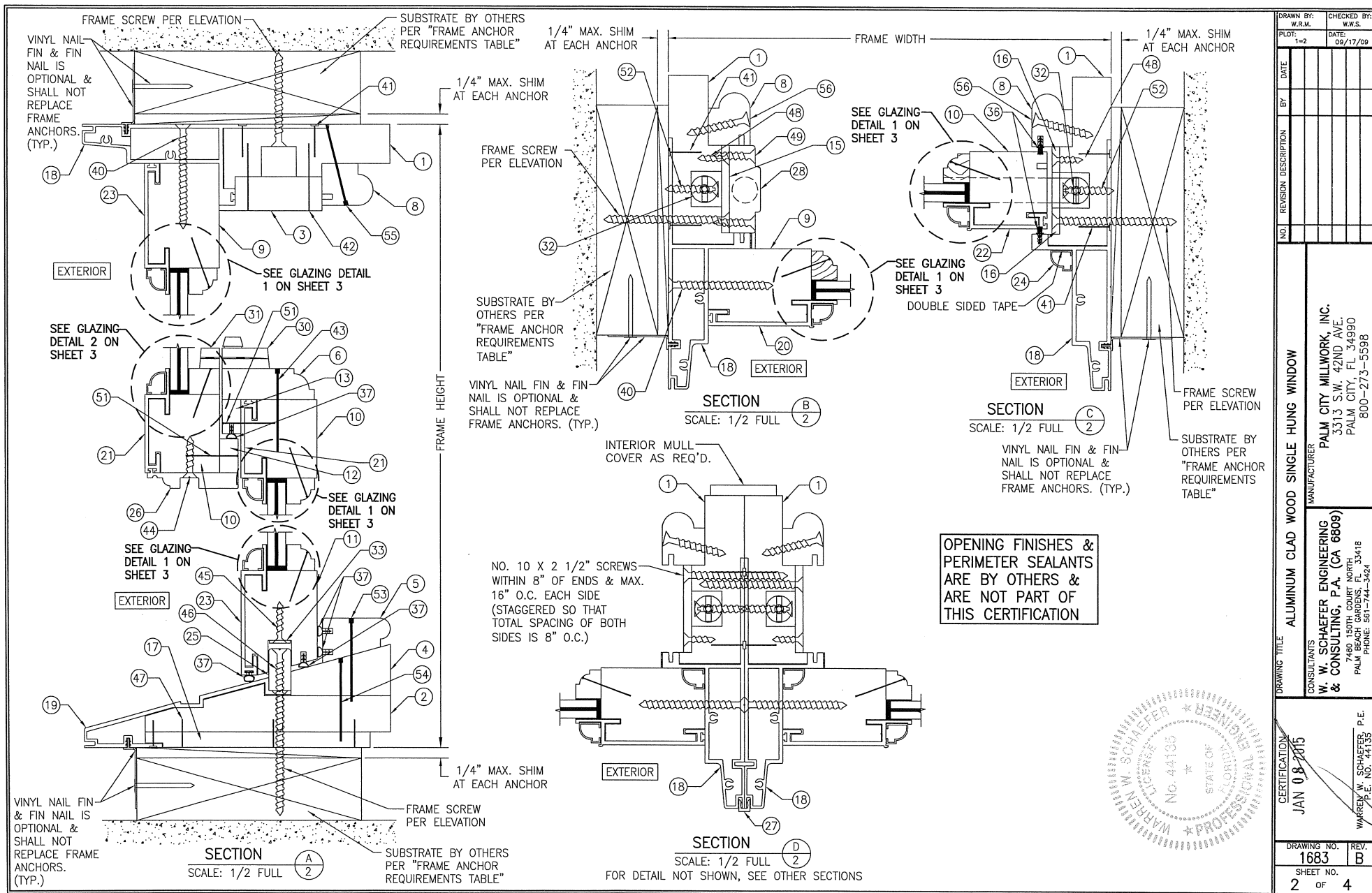
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED HORIZONTALLY INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
5. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE WINDOW ELEVATIONS.

FRAME ANCHOR REQUIREMENTS TABLE			
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. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

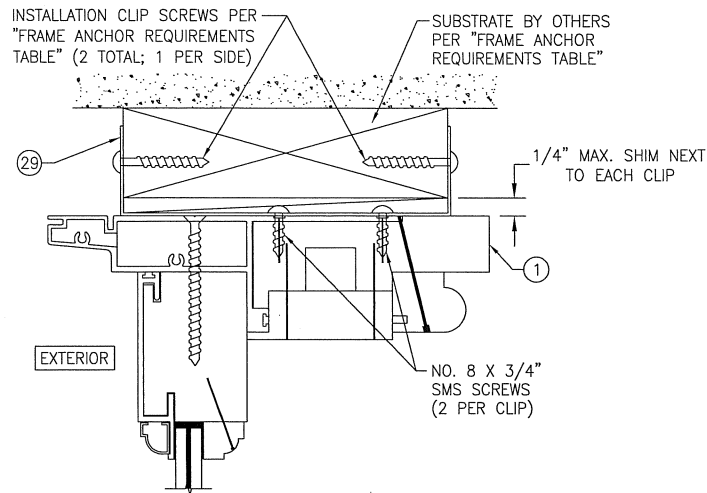
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=18		DATE: 09/17/09	
NO.	REVISION	DATE	BY
A1	UPDATE TO CURRENT STANDARDS	08/22/11	W.R.M.
B1	UPDATE TO CURRENT STANDARDS	07/09/15	W.W.S.
DRAWING TITLE: ALUMINUM CLAD WOOD SINGLE HUNG WINDOW			
MANUFACTURER: PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 8809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424			
CERTIFICATION: JAN 08 2015 W. W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1683		REV. B	
SHEET NO. 1		OF 4	

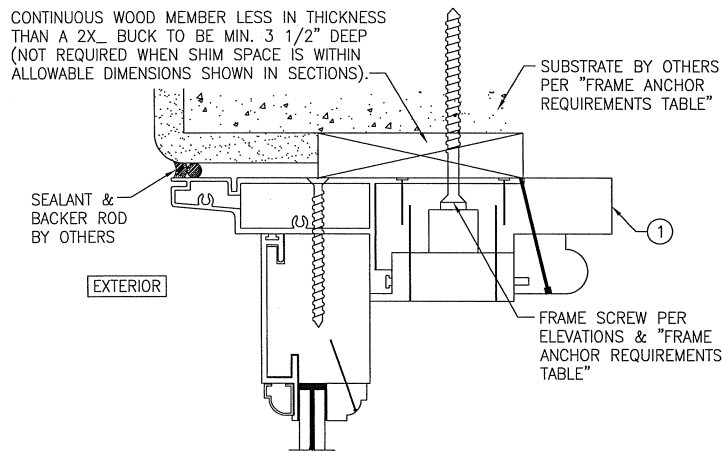


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 05/17/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD SINGLE HUNG WINDOW	
MANUFACTURER PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JAN 08 2015	REV. B
DRAWING NO. 1683	SHEET NO. 2 OF 4



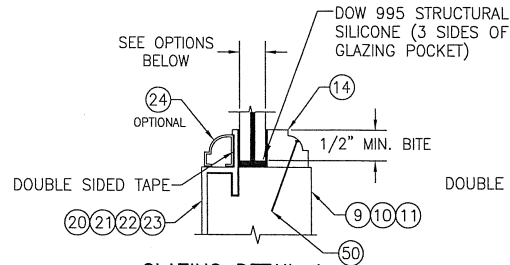
OPTIONAL CLIP MOUNT DETAIL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS
(HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)



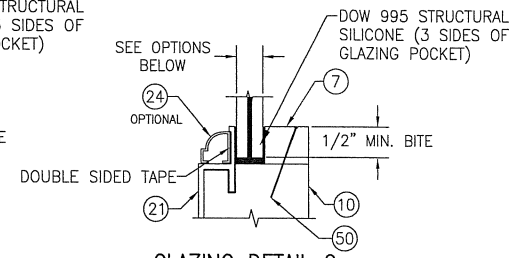
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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

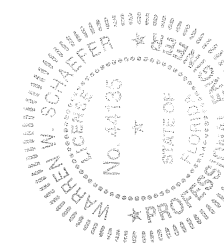
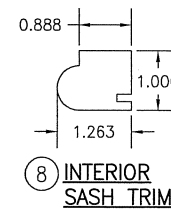
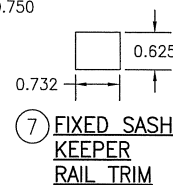
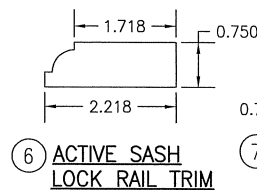
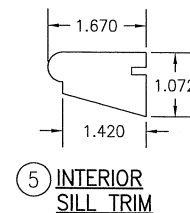
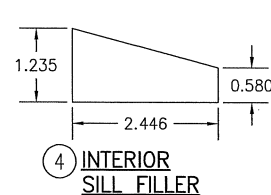
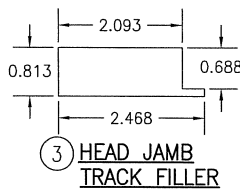
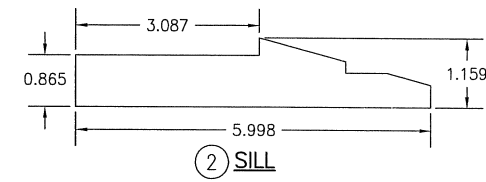
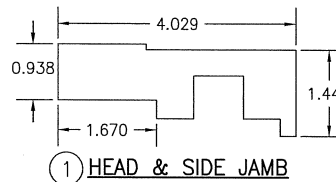


GLAZING DETAIL 1

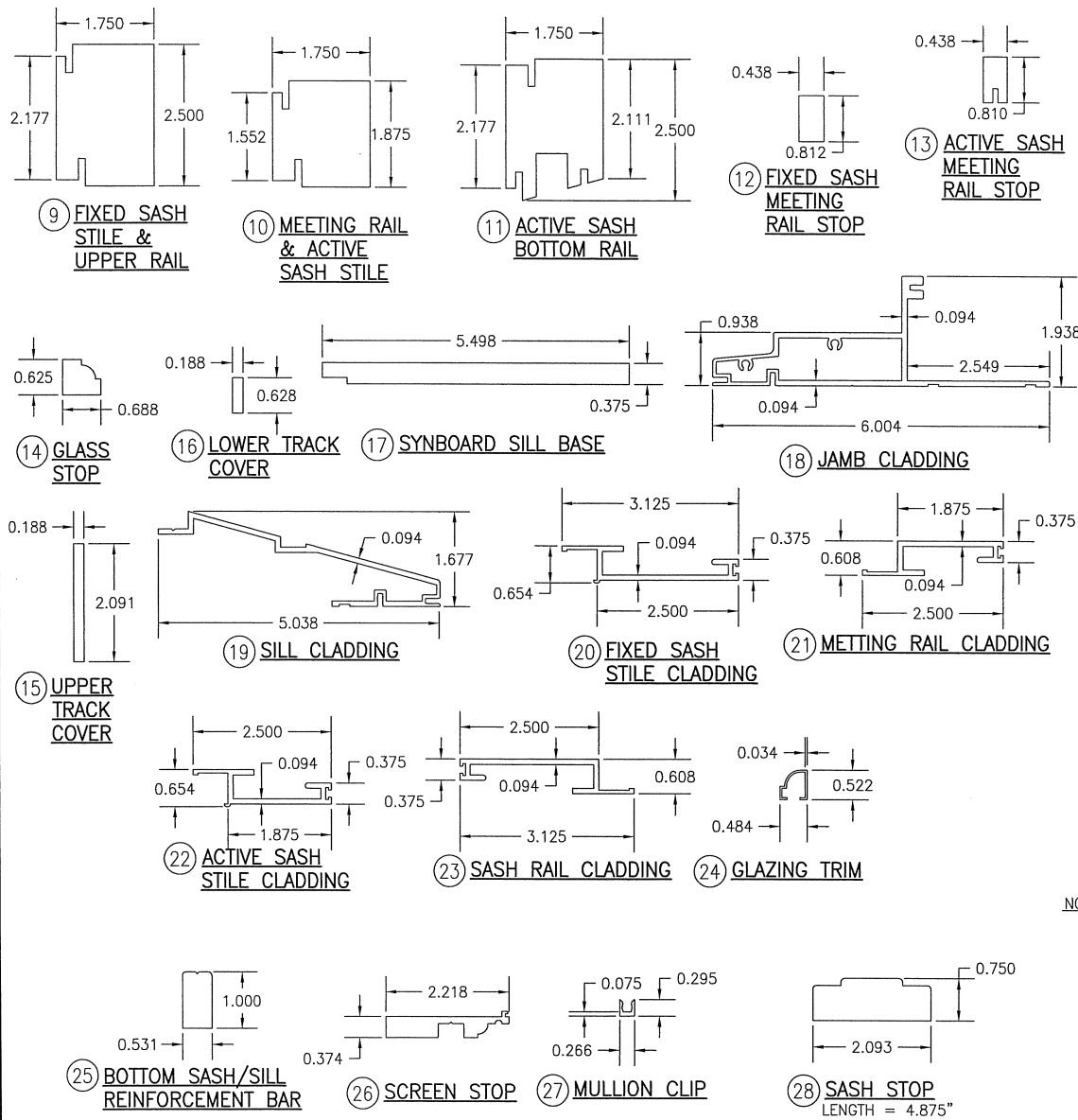
- OPTION #1: 7/16" THICK EASMANT CHEM. CO. LAMINATED GLASS (3/16" AN/0.075" SAFLEX CP INTERLAYER/3/16" AN)
OPTION #2: 7/16" THICK DUPONT LAMINATED GLASS (3/16" AN/0.090 SG/3/16" AN)
OPTION #3: 7/16" THICK EASTMAN CHEM. CO. SAFLEX HP LAMINATED GLASS (3/16" AN/0.100 SAFLEX HP/3/16" AN)



GLAZING DETAIL 2



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.			
PLT: 1-2		DATE: 09/17/09			
	NO.	REVISION	DESCRIPTION	BY	DATE
ALUMINUM CLAD WOOD SINGLE HUNG WINDOW					
MANUFACTURER					
PALM CITY MILLWORK, INC.					
3313 S.W. 42ND AVE.					
PALM CITY, FL 34990					
800-273-5598					
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 08 2015					
WARREN W. SCHAEFER, P.E.					
P.E. NO. 44135					
DRAWING NO.		REV.			
1683		B			
3		4			
OF					



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD & SIDE JAMB	
2	SILL	WOOD
3	HEAD JAMB TRACK FILLER	WOOD
4	INTERIOR SILL FILLER	WOOD
5	INTERIOR SILL TRIM	WOOD
6	ACTIVE SASH LOCK RAIL TRIM	WOOD
7	FIXED SASH KEEPER RAIL TRIM	WOOD
8	INTERIOR SASH TRIM	WOOD
9	FIXED SASH STILE & UPPER RAIL	WOOD
10	MEETING RAIL & ACTIVE SASH STILE	WOOD
11	ACTIVE SASH BOTTOM RAIL	WOOD
12	FIXED SASH MEETING RAIL STOP	WOOD
13	ACTIVE SASH MEETING RAIL STOP	WOOD
14	GLASS STOP	WOOD
15	UPPER TRACK COVER	WOOD
16	LOWER TRACK COVER	WOOD
17	SYNBOARD SILL BASE	WOOD
18	JAMB CLADDING	6063-T5 ALUMINUM
19	SILL CLADDING	6063-T5 ALUMINUM
20	FIXED SASH STILE CLADDING	6063-T5 ALUMINUM
21	MEETING RAIL CLADDING	6063-T5 ALUMINUM
22	ACTIVE SASH STILE CLADDING	6063-T5 ALUMINUM
23	SASH RAIL CLADDING	6063-T5 ALUMINUM
24	GLAZING TRIM (OPTIONAL)	6063-T5 ALUMINUM
25	BOTTOM SASH/SILL REINFORCEMENT BAR	6063-T5 ALUMINUM
26	SCREEN STOP	6063-T5 ALUMINUM
27	MULLION CLIP	6063-T5 ALUMINUM
28	SASH STOP	WOOD
29	HURRICANE CLIP 0.043" X 1 1/4" X MIN. 6.5"	GALVANIZED STEEL (Fy = 33 KSI)
HARDWARE		
30	SASH LOCK	TRUTH #4366
31	KEEPER	TRUTH #4366K
32	BALANCE	BLAINE WINDOW ULTRA-LIFT BALANCE
33	NON-TILT BRACKET	BLAINE WINDOW WBB100-1
SEALS AND SEALANTS		
36	PILE WEATHERSTRIPPING	SCHLEGEL 5/32" FIN SEAL
37	BULB WEATHERSTRIPPING	RESOURCE CONSERVATION TECHNOLOGIES WS10
MISC. FASTENERS		
40	NO. 10 X 2 1/2" S.S. SCREW	6" FROM ENDS & 12" O.C. INTO SASH
41	1/2" X 3/4" CROWN STAPLE	6" FROM ENDS & 12" O.C. THRU CLADDING INTO JAMB
42	6d X 2" FINISH NAIL	3" FROM ENDS & 12" O.C. THRU FILLER INTO JAMB
43	6d X 2" FINISH NAIL	3" FROM ENDS & 12" O.C. THRU TRIM INTO RAIL
44	NO. 8 X 1" SCREW	3" FROM ENDS & 10 1/2" O.C. THRU TRIM INTO RAIL
45	NO. 6 X 1" SCREW	3" EACH THRU BRACKET INTO BOTTOM RAIL
46	NO. 8 X 2" SCREW	3" FROM ENDS & 10 1/2" O.C. THRU BAR INTO SILL
47	1/2" X 3/4" CROWN STAPLE	6" FROM ENDS & 12" O.C. THRU SYNBOARD INTO SILL
48	NO. 6 X 3/4" SCREW	2" FROM ENDS & 8" O.C. THRU COVER INTO JAMB
49	NO. 8 X 1" SCREW	4 PER SASH STOP
50	18 GA. X 1 1/4" PIN NAIL	2" FROM ENDS & 8" O.C. THRU GLASS STOP INTO SASH
51	18 GA. X 1 1/4" PIN NAIL	2" FROM ENDS & 8" O.C. THRU STOP INTO RAIL
52	NO. 8 X 1 1/4" SCREW	IN TOP OF BALANCE
53	6d X 2" FINISH NAIL	3" FROM ENDS & 12" O.C. THRU TRIM INTO FILLER
54	6d X 2" FINISH NAIL	3" FROM ENDS & 12" O.C. THRU SILL INTO FILLER
55	6d X 2" FINISH NAIL	3" FROM ENDS & 12" O.C. THRU TRIM INTO HEAD JAMB
56	NO. 8 X 1 1/2" SCREW	3" FROM ENDS & 16" O.C. THRU TRIM INTO SIDE JAMB

NOTE: WOOD USED IN TESTING WAS MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,600,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.61 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PALM CITY MILLWORK, INC. TO SELECT.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/17/09	
DATE	BY	NO.	REVISION
DESCRIPTION			
ALUMINUM CLAD WOOD SINGLE HUNG WINDOW			
MANUFACTURER			
PALM CITY MILLWORK, INC.			
3313 S.W. 42ND AVE.			
PALM CITY, FL 34990			
800-273-5598			
CONSULTANTS			
W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 8809)			
7480 150TH COURT NORTH			
PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3424			
DRAWING TITLE			
ALUMINUM CLAD WOOD SINGLE HUNG WINDOW			
NO. 08 2015			
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SHEET NO.			
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