

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/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.
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.

CORNER CONSTRUCTION

RECTANGULAR HEAD FRAME CORNERS: VERTICAL & HORIZONTAL MEMBERS ARE SQUARE CUT & BUTTED TOGETHER. THE VERTICAL MEMBERS ARE MECHANICALLY ATTACHED TO THE HEAD MEMBER USING FOUR(4) NO. 10 X 2 1/2" S.S. WOOD SCREWS, AND THEN SEALED USING DOW 1199 OR DOW 995 SEALANT.

EYEBROW HEAD FRAME CORNERS: VERTICAL & HORIZONTAL MEMBERS ARE MITERED, BUTTED TOGETHER AND GLUED WITH FRANKLIN WOOD GLUE. THE VERTICAL MEMBERS ARE MECHANICALLY ATTACHED TO THE HEAD MEMBER USING TWO(2) NO. 10 X 2 1/2" S.S. WOOD SCREWS. THE HEAD MEMBER IS MECHANICALLY ATTACHED TO THE VERTICAL MEMBERS USING THREE(3) NO. 10 X 2 1/2" S.S. WOOD SCREWS, A 20 GA. X 3 1/8" X 7" GALV. SIMPSON STRONG TIE STEEL PLATE IS CENTERED ON BOTH MEMBERS & MECHANICALLY ATTACHED WITH SIXTEEN(16) NO. 6 X 3/4" S.S. PAN HEAD WOOD SCREWS (8 SCREWS EACH SIDE OF JOINT). EACH CORNER IS SEALED USING DOW 1199 OR DOW 995 SEALANT.

HALF-ROUND HEAD FRAME CORNERS: VERTICAL & HORIZONTAL MEMBERS ARE SQUARE CUT, DADO CUT (1/4" X 1" DEEP), SPLINED AND GLUED TOGETHER WITH 1/4" X 4" X 2" PLYWOOD AND GLUED WITH FRANKLIN WOOD GLUE. A 20 GA. X 3 1/8" X 7" GALV. SIMPSON STRONG TIE STEEL PLATE IS CENTERED ON BOTH MEMBERS & MECHANICALLY ATTACHED WITH SIXTEEN(16) NO. 6 X 3/4" S.S. PAN HEAD WOOD SCREWS (8 SCREWS EACH SIDE OF JOINT). EACH CORNER IS SEALED USING DOW 1199 OR DOW 995 SEALANT.

SILL CORNERS: VERTICAL & HORIZONTAL MEMBERS ARE SQUARE CUT & BUTTED TOGETHER. THE VERTICAL MEMBERS ARE MECHANICALLY ATTACHED TO THE SILL SCREW SPINES USING THREE(3) NO. 8 X 2" S.S. WOOD SCREWS. EACH CORNER IS SEALED USING SASHOOL SILICONE SEALANT.

RECTANGULAR & EYEBROW TOP RAIL/STILE CORNERS: MORTISED & TENONED (1/2" THICK X 1 7/8" DEEP X 3" TALL) AND GLUED WITH FRANKLIN INTERNATIONAL MULTIBOND-2000 WOOD GLUE.

HALF-ROUND TOP RAIL/STILE CORNERS: MORTISED & TENONED (1/2" THICK X 2 3/4" DEEP X 4" TALL) AND GLUED WITH FRANKLIN INTERNATIONAL MULTIBOND-2000 WOOD GLUE.

BOTTOM RAIL/STILE CORNERS: MORTISED & TENONED (1/2" THICK X 1 7/8" DEEP X 6 3/8" TALL) AND GLUED WITH FRANKLIN INTERNATIONAL MULTIBOND-2000 WOOD GLUE.

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.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
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FRAME SCREWS & HEAD STRIKE SCREWS

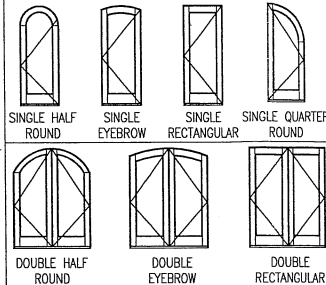
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	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 (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) CMU SUBSTRATE IS NOT APPLICABLE AT HEAD & SILL.

SHAPES CONSIDERED AS PART OF THIS APPROVAL



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED ON THIS SHEET.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

HINGE REQUIREMENTS

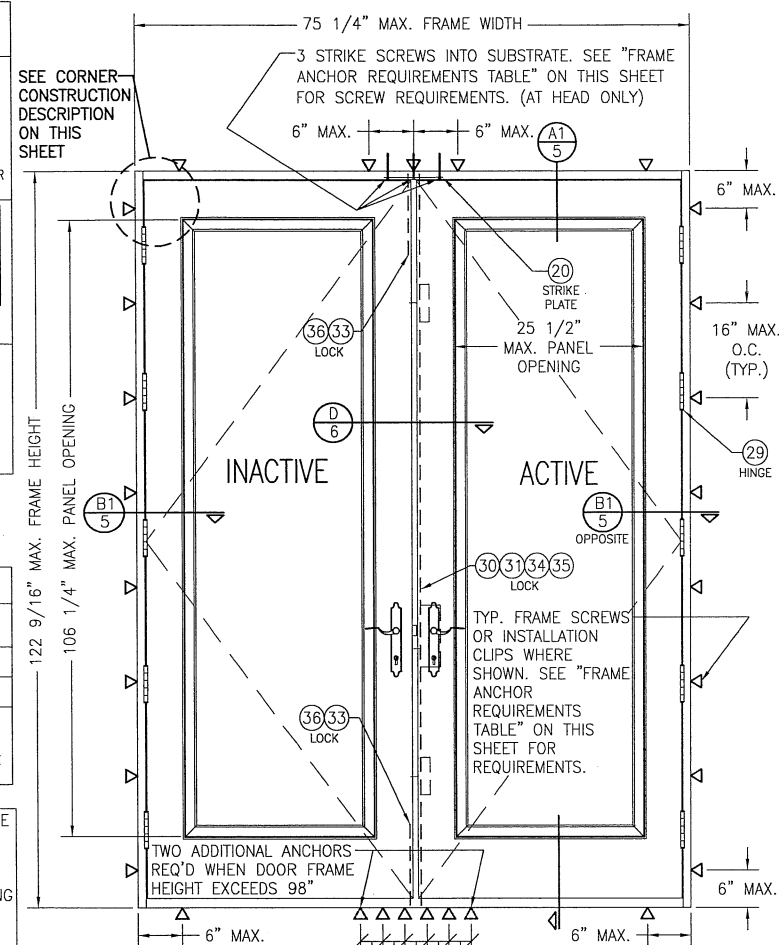
FRAME HEIGHT	MIN. # OF HINGES
ABOVE 98 1/4"	5
98 1/4" & BELOW	4

NOTE: FOR HINGE REQUIREMENTS, THE "MAX. FRAME HEIGHT" IS CONSIDERED TO BE FULL FRAME HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF FRAME TO FRAME SPRINGLINE FOR SHAPED UNITS

LOCK NOTE: ELEVATIONS SHOW ACTIVE PANELS WITH MULTI-POINT LOCK SYSTEM. SINGLE LOCK & DEADBOLT SYSTEM WITH FLUSH BOLTS ALSO APPLIES TO ACTIVE PANELS PROVIDING REQUIRED DESIGN PRESSURE DOES NOT EXCEED +/- 55 PSF.

ALLOWABLE DESIGN PRESSURE

ACTIVE PANEL LOCK SYSTEM	INACTIVE PANEL LOCK SYSTEM	ALLOWABLE PRESSURE POSITIVE	NEGATIVE
RECTANGULAR SINGLE & DOUBLE DOOR & SHAPED SINGLE & DOUBLE DOOR			
5 POINT MULTI-POINT	2 POINT MULTI-POINT	70 PSF	70 PSF
SHAPED SINGLE DOOR			
4 POINT MULTI-POINT	N/A	70 PSF	70 PSF
ALL DOOR CONDITIONS			
SINGLE LOCK & DEAD BOLT WITH FLUSH BOLT	CENTER ACTIVATED FLUSH BOLT	55 PSF	55 PSF



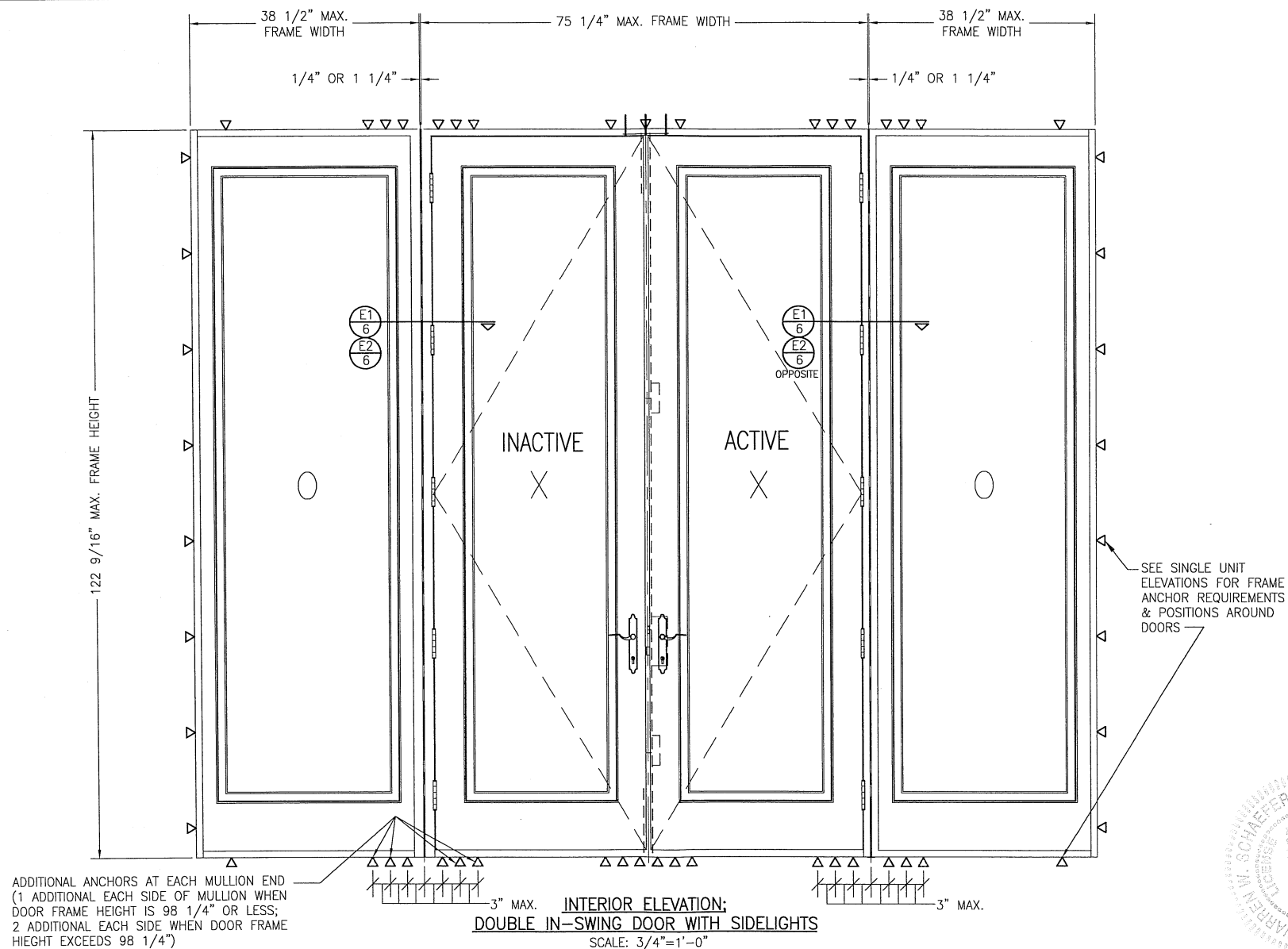
INTERIOR ELEVATION; DOUBLE IN-SWING DOOR

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

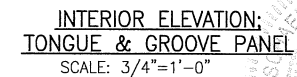
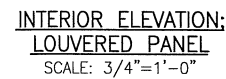
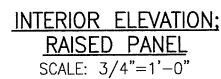
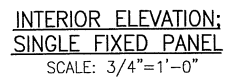
NOTE: THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC SECTION 1715.5.

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.

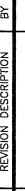
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DATE	DATE	DATE	DATE
11/13/12	11/13/12	11/13/12	11/13/12
BY	BY	BY	BY
W.R.M.	W.R.M.	W.R.M.	W.R.M.
REVISION DESCRIPTION	REVISION DESCRIPTION	REVISION DESCRIPTION	REVISION DESCRIPTION
A1	UPDATE TO CURRENT STANDARDS	B1	UPDATE TO CURRENT STANDARDS
10 FOOT IN-SWING IMPACT WOOD PANELED DOORS MANUFACTURERS 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: 561-741-3424 CERTIFICATION AUG 14 2017 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 DRAWING NO. 1570B SHEET NO. 1 OF 9			

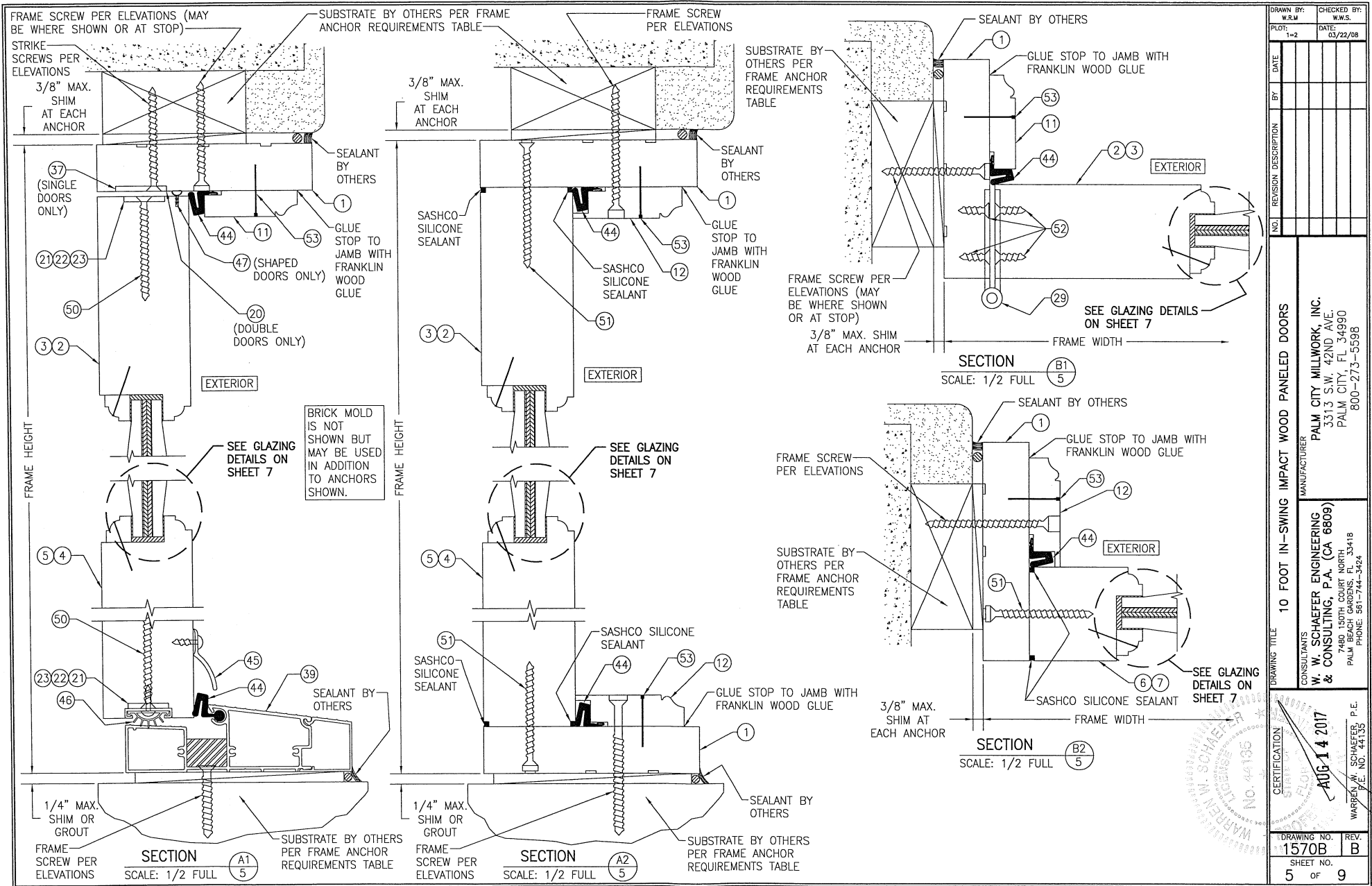


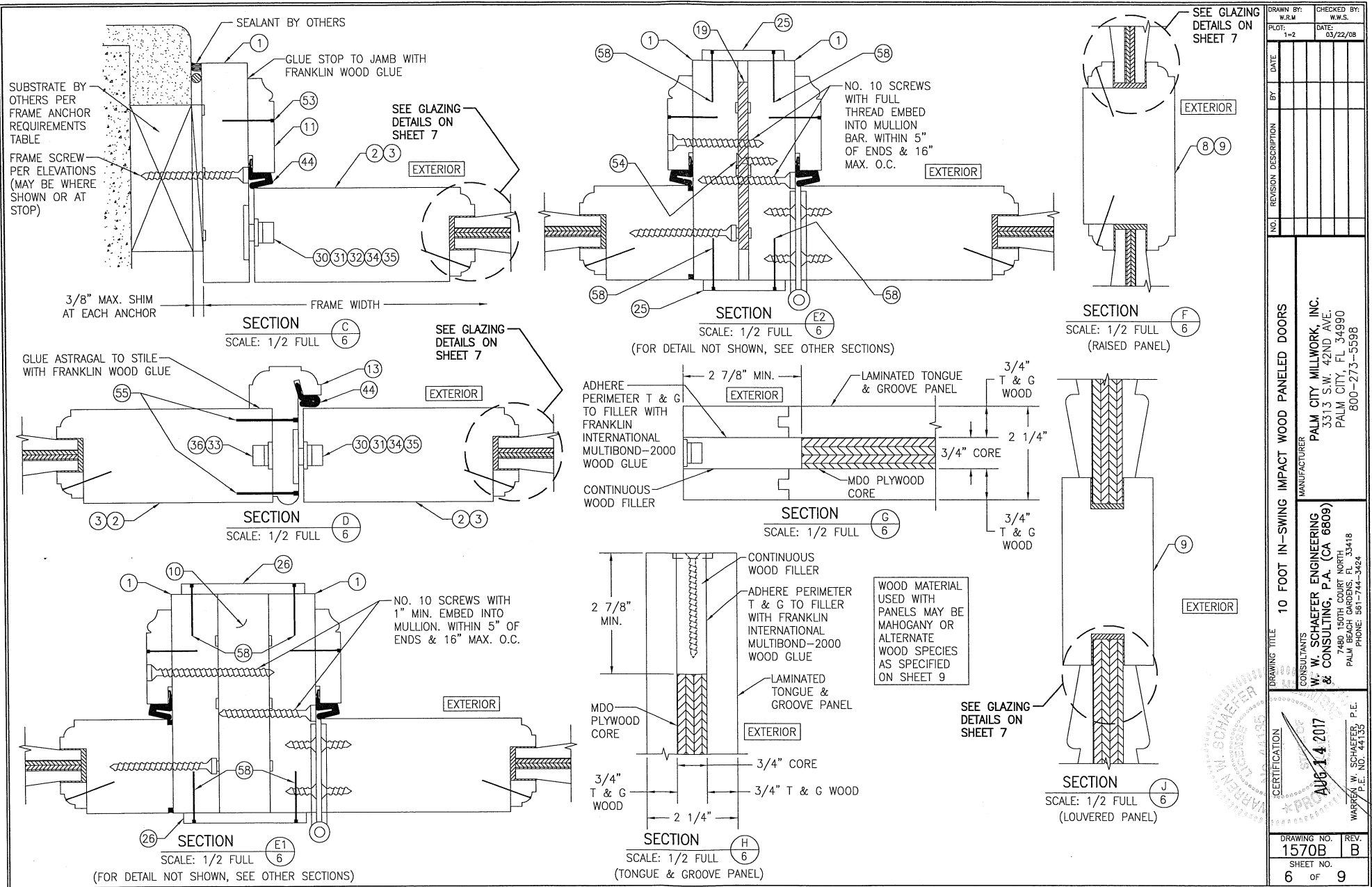
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PLOT: 1=16		DATE: 03/22/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 10 FOOT IN-SWING IMPACT WOOD paneled DOORS		MANUFACTURER: PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 130TH COURT NORTH PALM BEACH, FL 33418 PHONE: 561-744-3424		P.E. NO. 44135	
CERTIFICATION: AUG 14 2017		WARREN W. SCHAEFER, P.E.	
DRAWING NO. 1570B		REV. B	
SHEET NO. 3		OF 9	



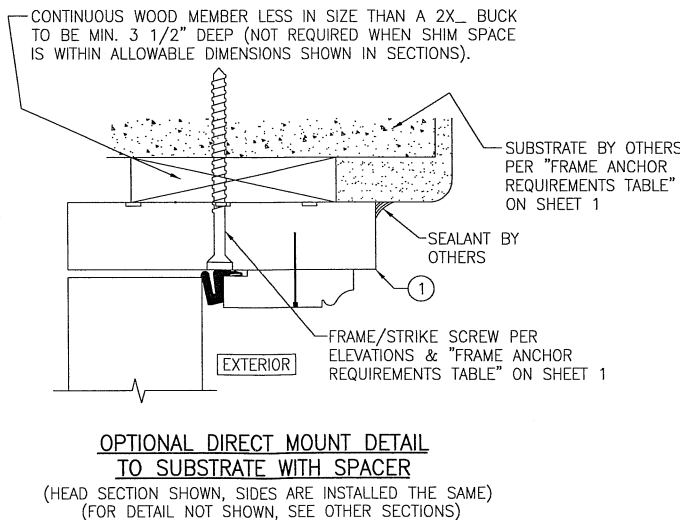
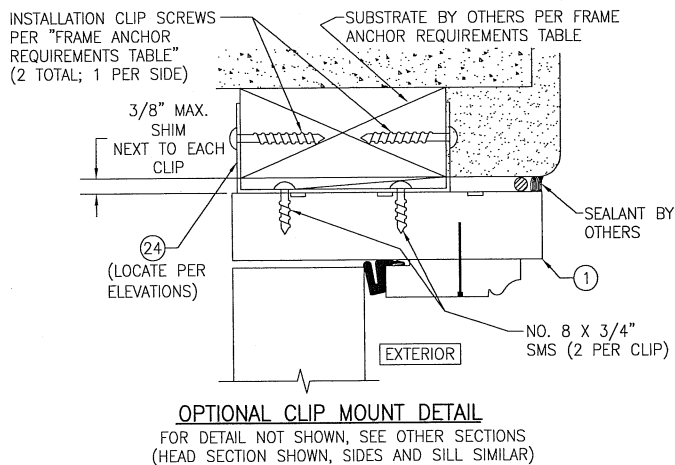
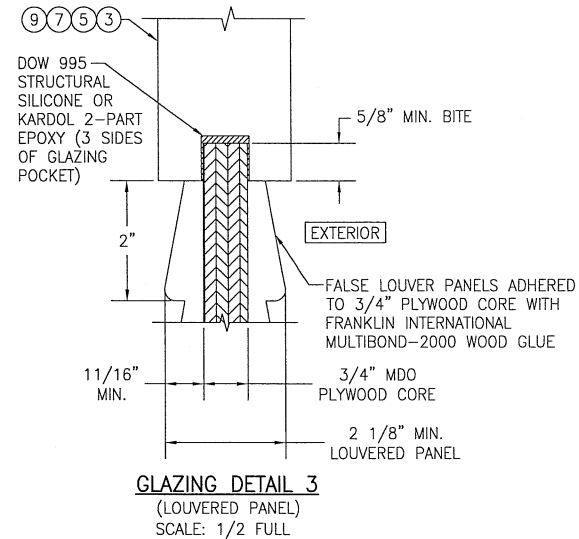
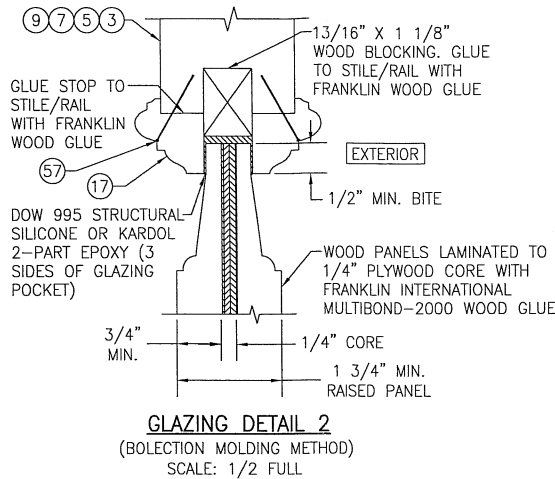
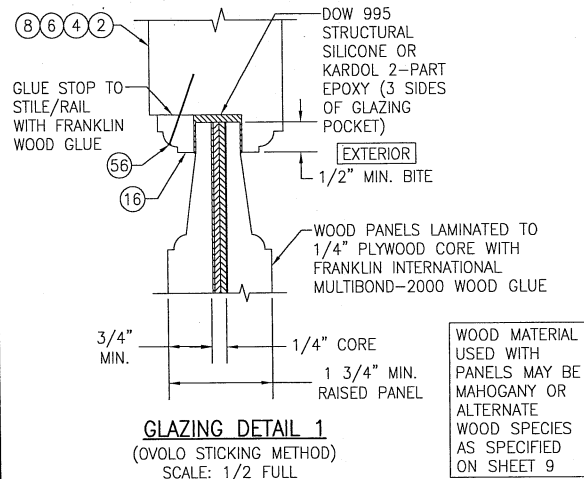
- 1) TOP & MID RAILS MAY BE OF ANY CONFIGURATION PROVIDING THE SMALLEST CROSS SECTION OF RAILS IS EQUAL TO OR LARGER THAN THAT DETAILED IN DRAWINGS.
- 2) MULTIPLE MID RAIL (BOTH HORIZONTAL & VERTICAL) MAY BE USED WITH THESE PANELS.
- 3) OTHER PANEL CONFIGURATIONS THAN THOSE SHOWN ARE APPLICABLE PROVIDING THEY ARE SIMILAR IN CONSTRUCTION TO THAT SHOWN ABOVE.
- 4) PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.

CERTIFICATION  AUG 14 2017 WARREN W. SCHAEFFER, P.E. P.E. NO. 44135	DRAWING NO. 1570B		REV. B
	SHEET NO. 4 OF 9		
DRAWING TITLE 10 FOOT IN-SWING IMPACT WOOD PANELED DOORS			
CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598	
ADDRESS 15001 COURT NORTH PALM BEACH, FL 33418 PHONE: 561-744-3424		DRAWN BY: W.R.M.	
PLOT: 1=16		CHECKED BY: W.W.S.	
DATE: 03/22/08		NO. REVISION DESCRIPTION BY DATE	

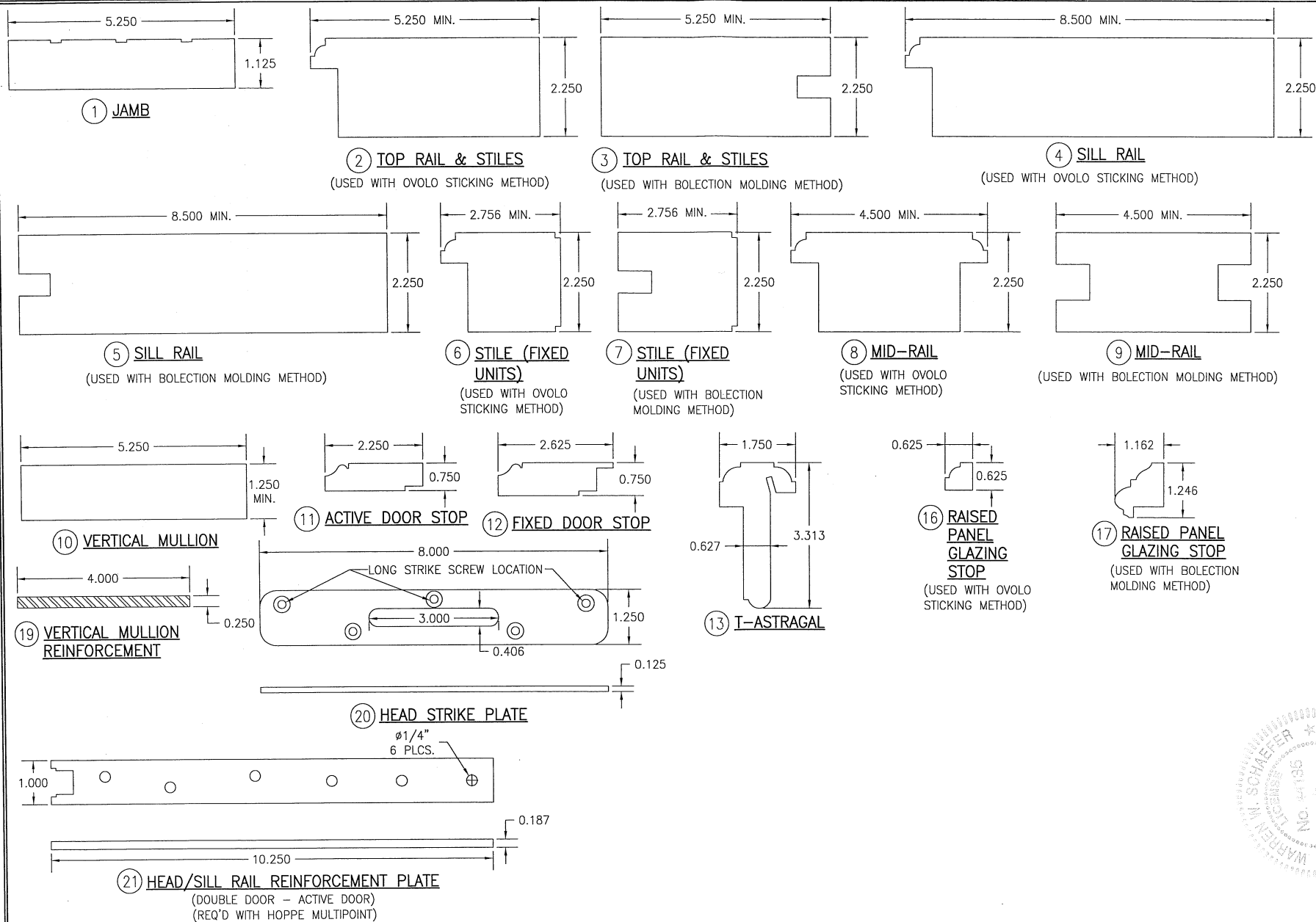




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PLOT:	1-2	DATE:	03/22/08
DATE			
BY			
REVISION DESCRIPTION			
NO.			
DRAWING TITLE			
10 FOOT IN-SWING IMPACT WOOD PANELED DOORS			
MANUFACTURER			
PALM CITY MILLWORK, INC.			
3313 S.W. 42ND AVE.			
PALM CITY, FL 34990			
800-273-5598			
CONSULTANTS			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 130TH COURT NORTH			
PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3424			
CERTIFICATION			
AUG 14 2017			
W. W. SCHAEFER, P.E.			
P.E. NO. 44135			
DRAWING NO.			
1570B			
REV.			
B			
SHEET NO.			
6 OF 9			



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 03/22/08
DATE	BY
REVISION DESCRIPTION	NO.
10 FOOT IN-SWING IMPACT WOOD PANELED DOORS 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, FL 33418 PHONE: 561-744-3428	
CERTIFICATION	AUG 14 2017 W. W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1570B	REV. B
SHEET NO. 7	OF 9



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/22/08
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 10 FOOT IN-SWING IMPACT WOOD PANELED DOORS	
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) 1780 SOUTH COURTYARD PALM BEACH, FL 33418 PHONE: 561-744-3424	
CERTIFICATION AUG 14 2017 WARREN W. SCHAEFER, P.E. P.E. NO. 44136	
DRAWING NO. 1570B	REV. B
SHEET NO. 8	OF 9

