

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 REFERENCE 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), SPUNLED 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.

STANDARD SILL CORNERS (NON-ADA): VERTICAL & HORIZONTAL MEMBERS ARE SQUARE CUT & BUTTED TOGETHER. THE VERTICAL MEMBERS ARE MECHANICALLY ATTACHED TO THE SILL USING TWO(2) NO. 10 X 2 1/2" S.S. WOOD SCREWS. EACH CORNER IS SEALED USING SASHCO SILICONE SEALANT.

ADA SILL CORNERS: VERTICAL & HORIZONTAL MEMBERS ARE SQUARE CUT & BUTTED TOGETHER AND SEALED USING SASHCO SILICONE SEALANT.

RECTANGULAR & EYEBROW TOP RAIL/STYLE 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/STYLE 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/STYLE 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"

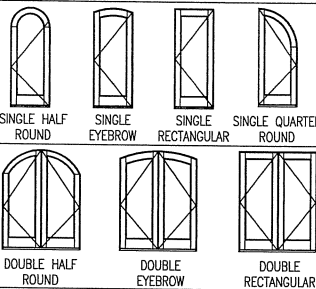
INSTALLATION CLIP SCREWS

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

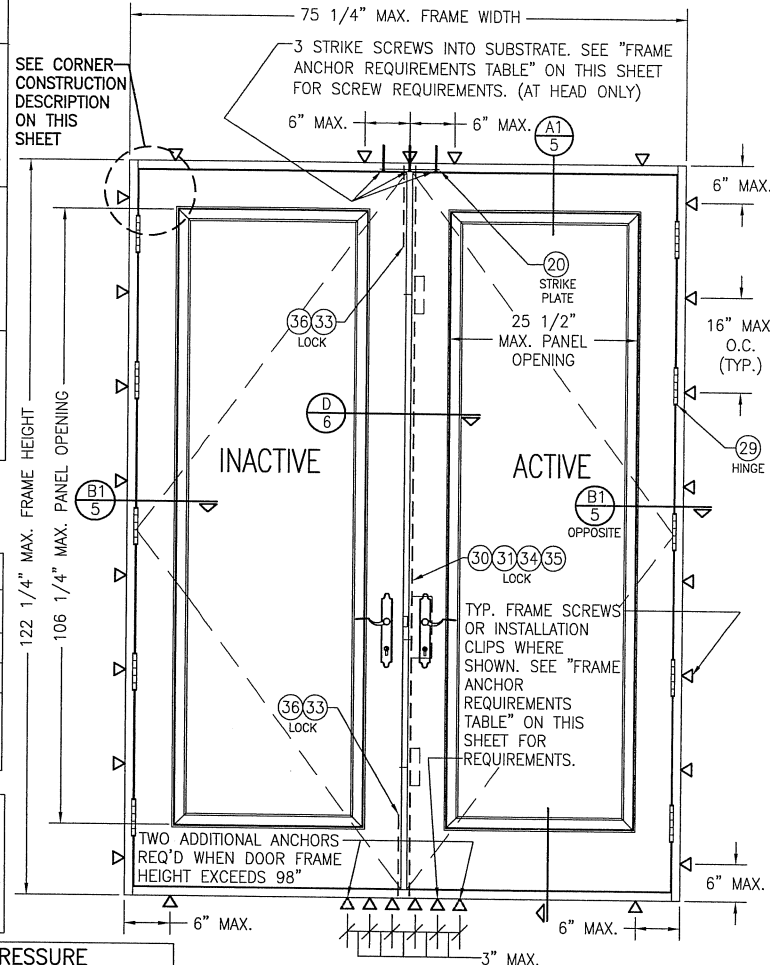
NOTE: FOR HINGE REQUIREMENTS, THE "MAX. FRAME HEIGHT" IS CONSIDERED TO BE FULL FRAME HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF FRAME TO FRAME STRINGLINE FOR SHAPED UNITS

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
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

SEE CORNER
CONSTRUCTION
DESCRIPTION ON
THIS
SHEET



EXTERIOR ELEVATION: DOUBLE OUT-SWING DOOR

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

NOTE: WHEN ADA SILL IS USED, 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.

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=15 DATE: 03/22/08

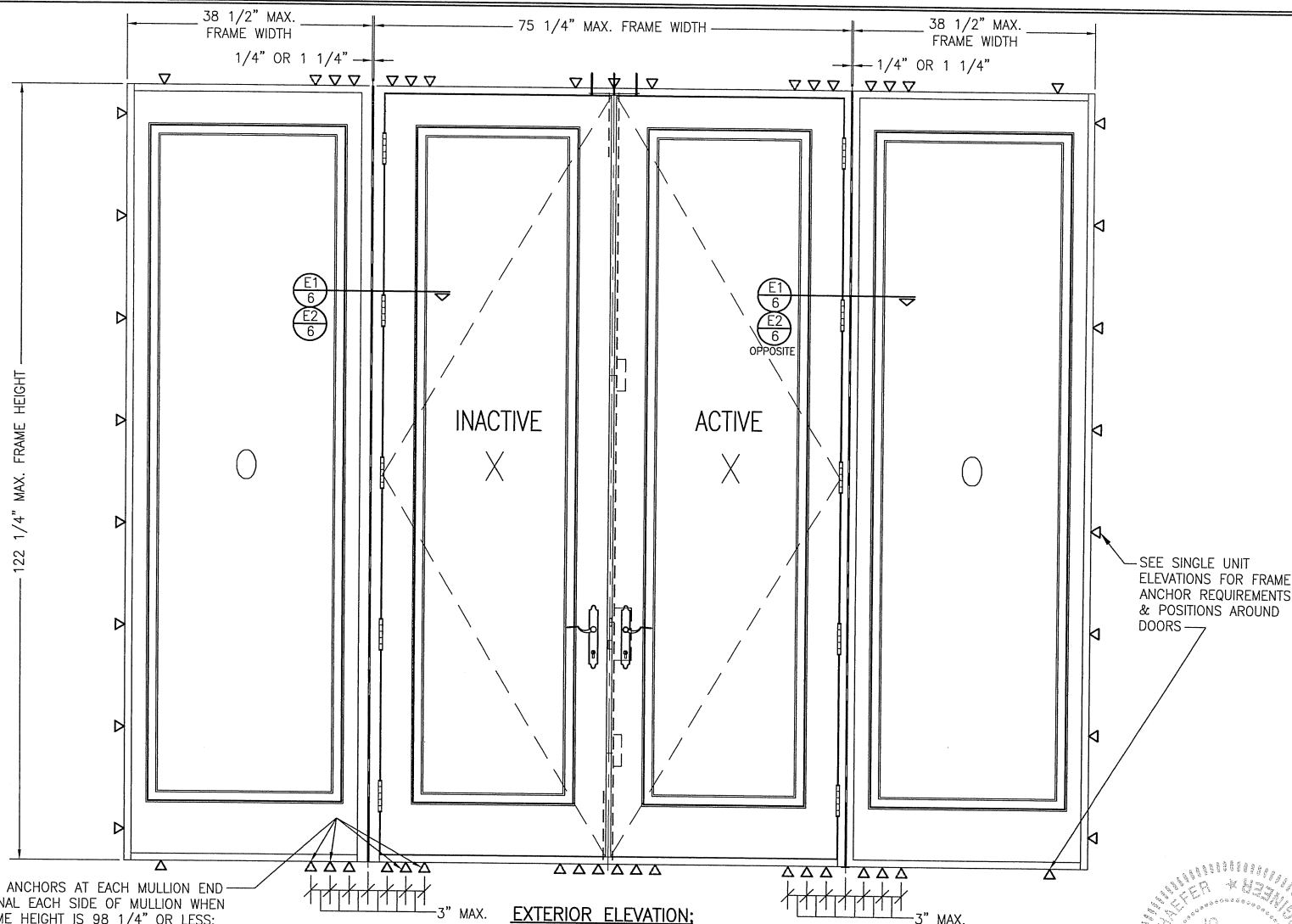
NO.	REVISION DESCRIPTION	DATE	BY	W.R.M.	W.W.S.
A1	UPDATE TO CURRENT STANDARDS	11/13/12			
B1	UPDATE TO CURRENT STANDARDS	01/08/13			

10 FOOT OUT-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 GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
JAN 08 2013
DRAWING NO. 1470B
SHEET NO. 1 OF 9
REV. B



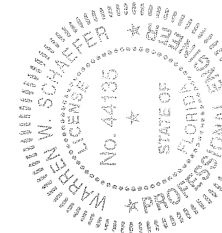
ADDITIONAL ANCHORS AT EACH MULLION END
(1 ADDITIONAL EACH SIDE OF MULLION WHEN
DOOR FRAME HEIGHT IS 98 1/4" OR LESS;
2 ADDITIONAL EACH SIDE WHEN DOOR FRAME
HEIGHT EXCEEDS 98 1/4")

NOTE: WHEN AN ADA THRESHOLD IS USED WITH THE
DOORS, THIS UNCLIPPED MULLION CONDITION SHOWN MAY
NOT BE USED. WITH ADA THRESHOLD USE, MULLIONS
MUST BE CLIPPED MULLIONS UNDER SEPERATE APPROVAL.

**EXTERIOR ELEVATION;
DOUBLE OUT-SWING DOOR WITH SIDELIGHTS**

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

NOTE: OXOX DOOR SHOWN. ALL OTHER 4-PANEL CONFIGURATIONS
OF SINGLE/DOUBLE DOORS & SIDELIGHTS ALSO APPLY.
(FOR ALL DETAIL NOT SHOWN; SEE INDIVIDUAL UNIT ELEVATIONS)



DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLT:	1=15	DATE:	03/22/08
NO.	REVISION DESCRIPTION	DATE	BY

DRAWING TITLE 10 FOOT OUT-SWING IMPACT WOOD PANELED DOORS

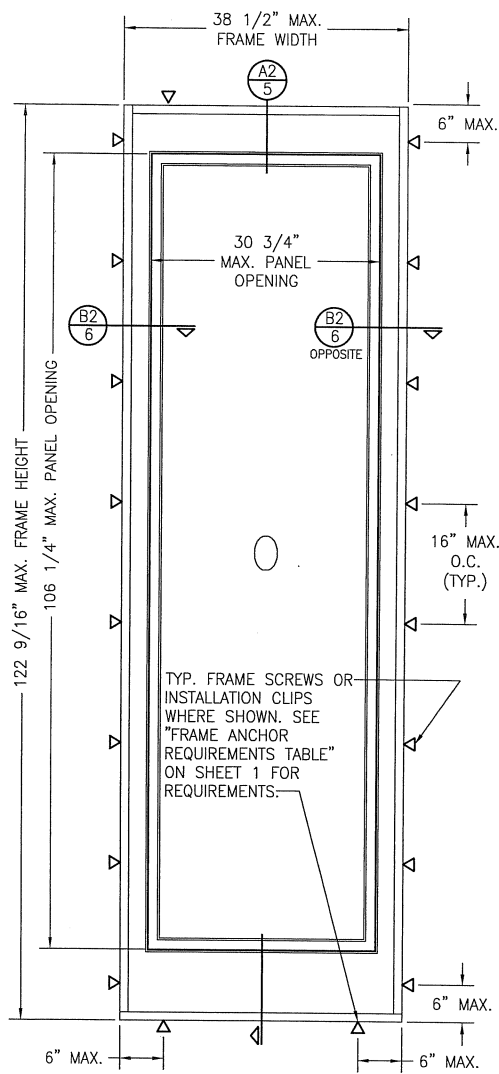
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
1485 150TH COURT NORTH
PALM BEACH, FL 33418
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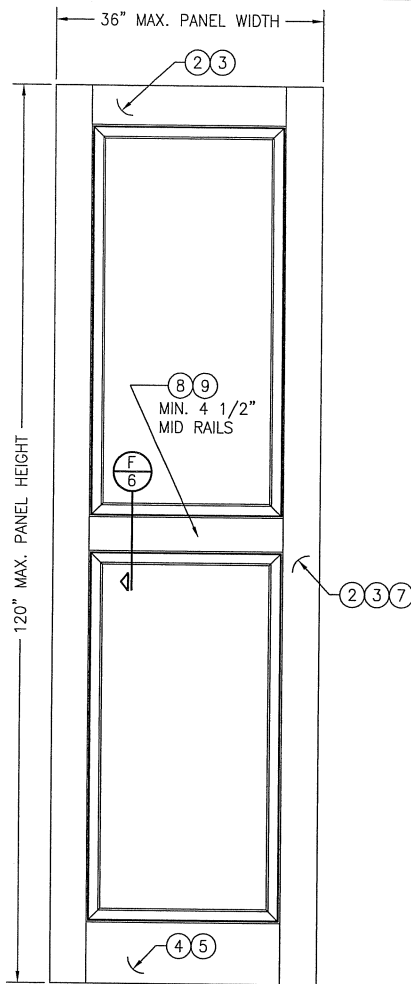
CERTIFICATION
JAN 08 2008

WARREN W. SCHAEFER
P.E.
No. 44135

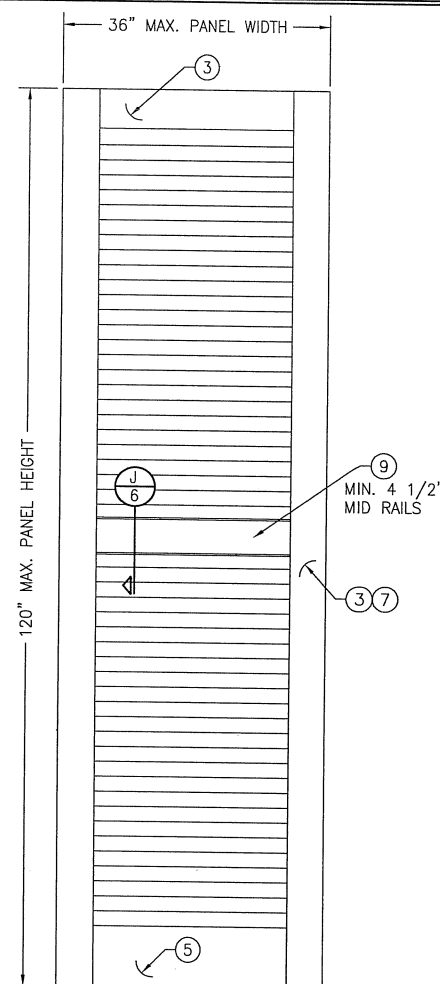
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REV. B
SHEET NO. 3 OF 9



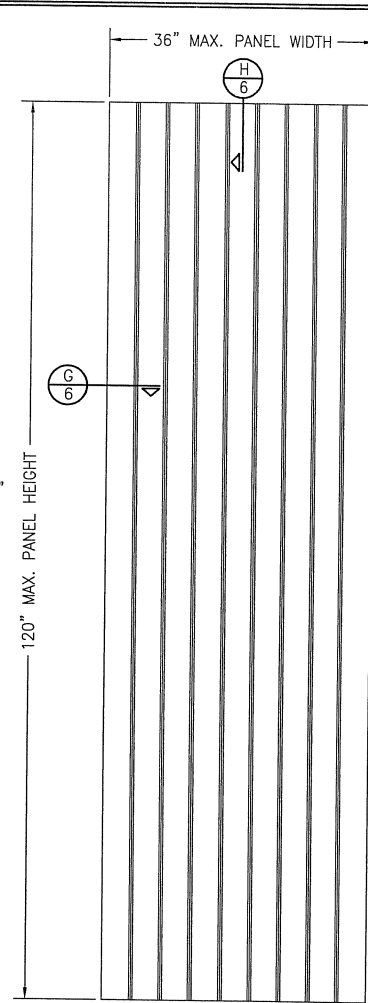
**EXTERIOR ELEVATION:
SINGLE FIXED PANEL**
SCALE: 3/4"=1'-0"



**EXTERIOR ELEVATION:
RAISED PANEL**
SCALE: 3/4"=1'-0"



**EXTERIOR ELEVATION:
LOUVERED PANEL**
SCALE: 3/4"=1'-0"

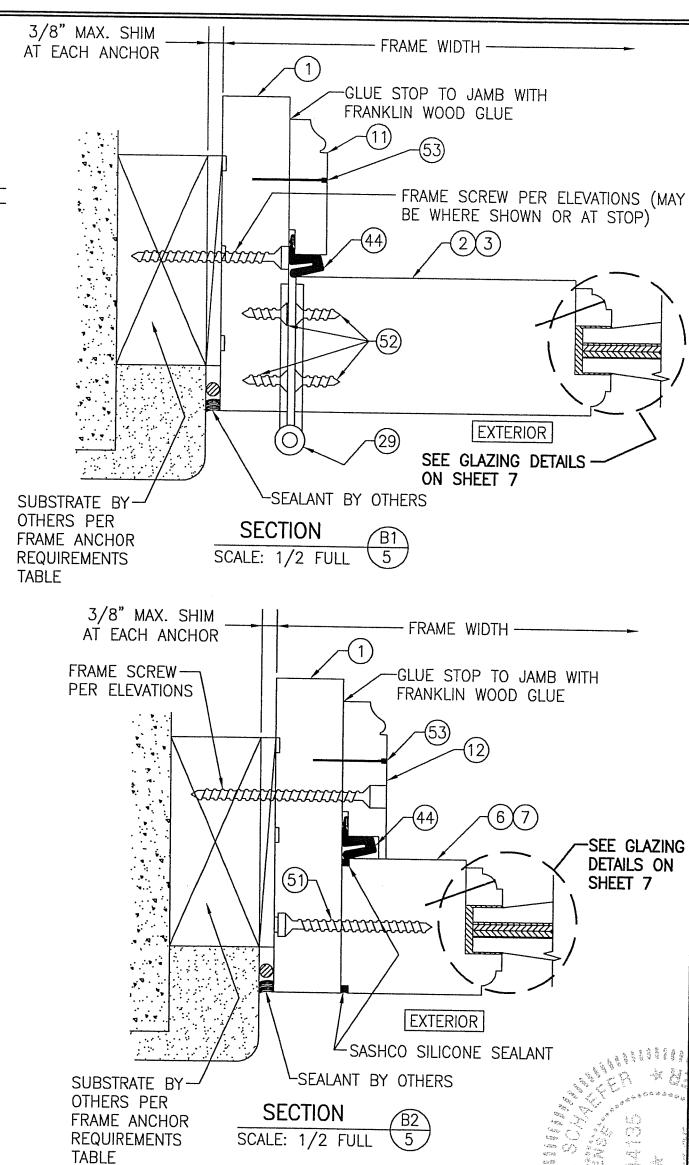
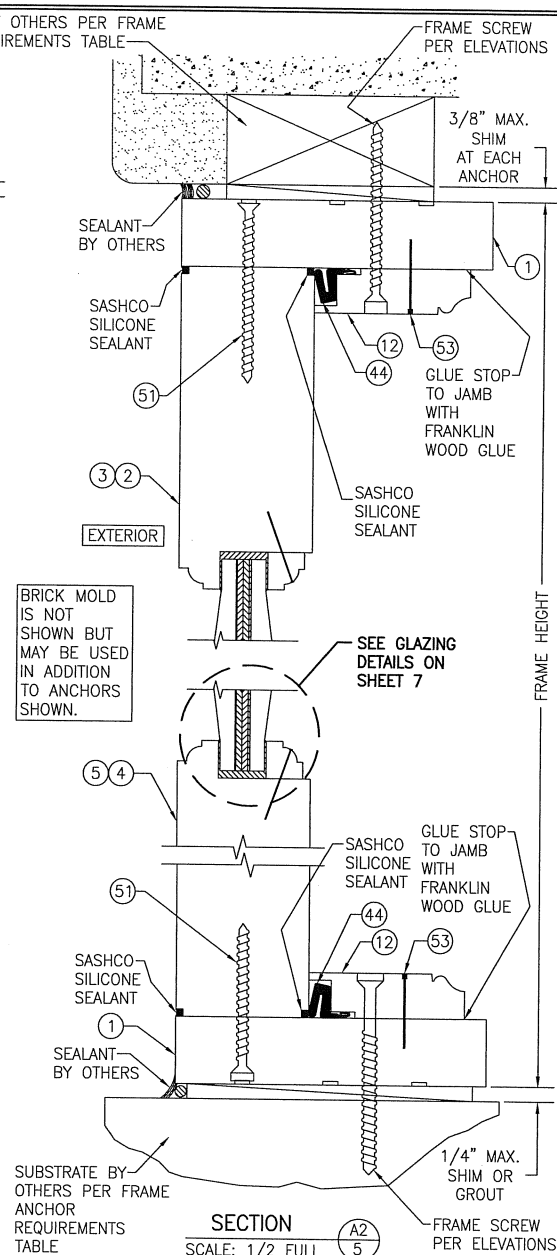
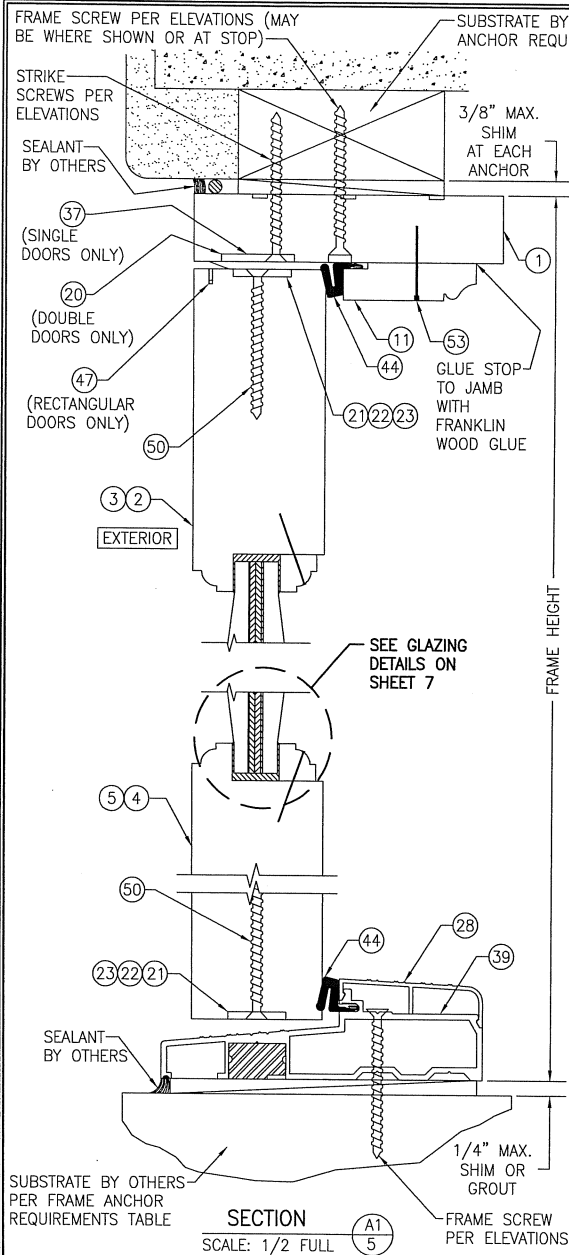


**EXTERIOR ELEVATION:
TONGUE & GROOVE PANEL**
SCALE: 3/4"=1'-0"

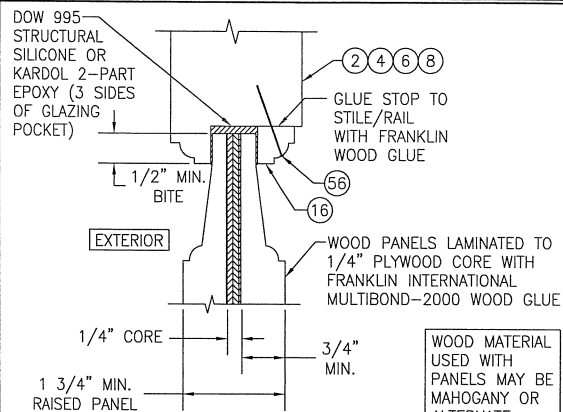
PANEL NOTES

- 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.

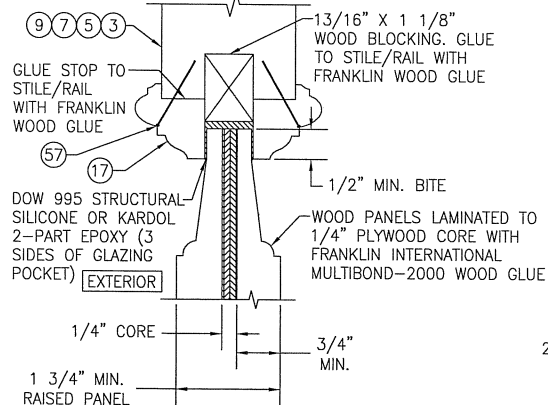
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PLOT: 1=16		DATE: 03/22/08	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE 10 FOOT OUT-SWING IMPACT WOOD PANELED DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598	
CERTIFICATION JAN 08 2015 W. W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1470B		REV. B	
SHEET NO. 4		OF 9	



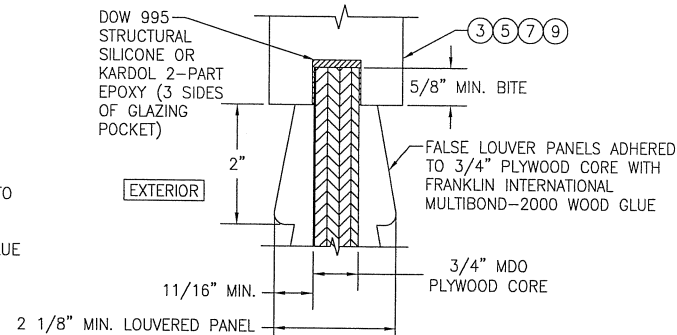
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PLOT:	1=2	DATE:	03/22/08
DATE:			
BY:			
REVISION DESCRIPTION:			
NO.			
DRAWING TITLE			
10 FOOT OUT-SWING IMPACT WOOD PANELED DOORS			
MANUFACTURER			
PALM CITY MILLWORK, INC.			
3313 S.W. 42ND AVE.			
PALM CITY, FL 34990			
800-273-5598			
CONSULTANTS			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7400 15TH STREET NORTH			
PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3424			
CERTIFICATION			
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5 OF 9			



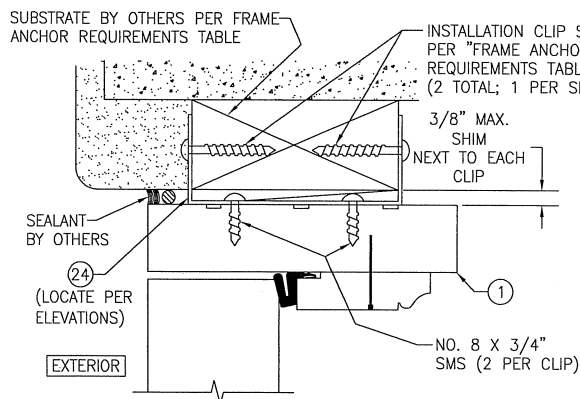
GLAZING DETAIL 1
(OVOLO STICKING METHOD)
SCALE: 1/2 FULL



GLAZING DETAIL 2
(BOLECTION MOLDING METHOD)
SCALE: 1/2 FULL



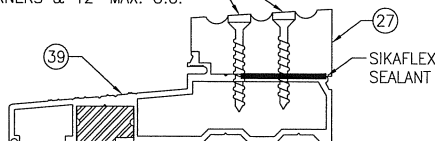
GLAZING DETAIL 3
(LOUVERED PANEL)
SCALE: 1/2 FULL



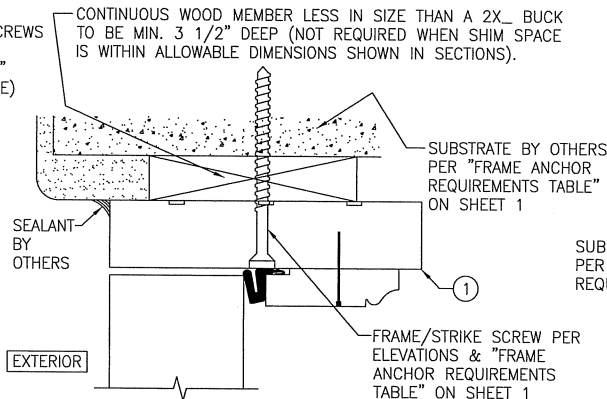
OPTIONAL CLIP MOUNT DETAIL

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

NO. 8 X 1 1/2" S.S. WOOD
SCREWS WITHIN 6" OF
CORNERS & 12" MAX. O.C.

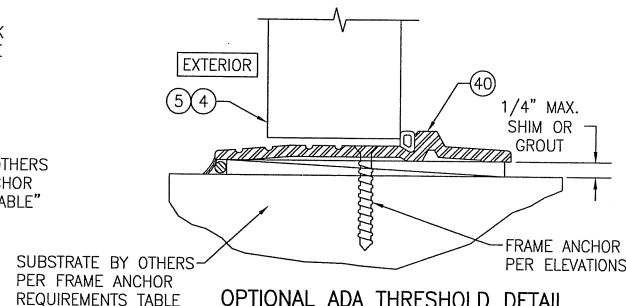


OPTIONAL THRESHOLD CAP DETAIL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



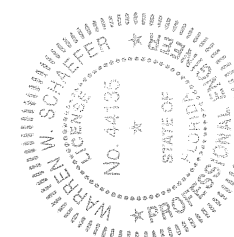
**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER**

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

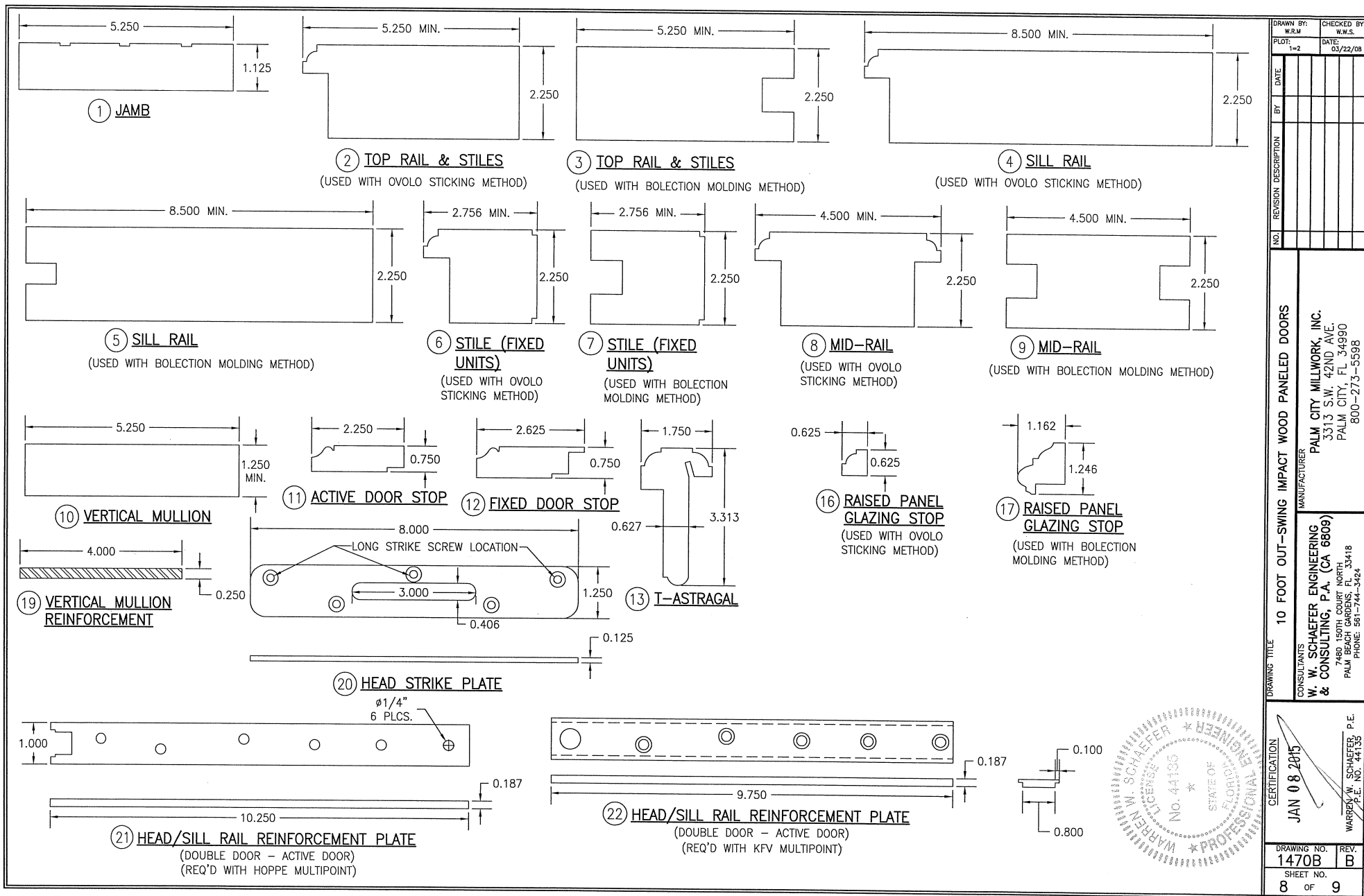


OPTIONAL ADA THRESHOLD DETAIL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

**ADA THRESHOLD MAY NOT BE USED WITH
MULLED UNITS UNLESS A CLIPPED MULLION
UNDER SEPERATE APPROVAL IS USED**



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PLOT: 1=2	DATE: 03/22/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE	10 FOOT OUT-SWING IMPACT WOOD PANELED DOORS
CONSULTANTS	MANUFACTURER PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598
CERTIFICATION	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH, FL 33418 PHONE: 561-747-3424
JAN 08 2015	WARREN W. SCHAEFER, P.E. P.E. NO. 44136
DRAWING NO. 1470B	REV. B
SHEET NO. 7	OF 9



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
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DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 10 FOOT OUT-SWING IMPACT WOOD PANELED DOORS	
MANUFACTURER PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34980 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. 1470B	
SHEET NO. 8 OF 9	

