



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Weather Shield Manufacturing Inc.
One Weather Shield Plaza
Medford, WI 54451

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "1604" Outswing Glazed Alum Clad Wood Doors – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1568 Rev C**, titled "1604 Aluminum Clad Out-Swing Impact Door", sheets 1 through 18 of 18, dated 04/30/09 and last revised on DEC 11, 2014, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. See design Pressure (DP) tables in sheet 1 for single or double operable (Rectangular or Shaped) based on height and width w/ Standard Lock hardware (items 52 & 53). See sheet 4, for doors w/ Panic exit device & w/ADA sill.
2. See DP for Single Fixed Panel doors in sheet 5. See sheets 5 & 6, for Fixed Panel mulled with operable doors using Vertical mullions, lower DP from fixed panel, operable door or loaded mullion width shall control for the entire assembly.
3. See sheets 7 & 8 for single and double operable doors w/ Transom, the lower DP from the direct glazed windows or Sash set transom (under separate NOA(s)) approval or the doors in this NOA shall control for the entire assembly.
4. When panic hardware and/ or ADA sill is used, the unit shall qualify the water ratings per Note in sheet 1.
5. Limited Partial Raised panels are allowed per sheet 2. The max DLO with 37-1/2" wide single unit is limited to 25-1/2". The max OC spacing of Hinges not to exceed 26".

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Kall/Eifel, Germany and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.



NOA No. 14-0618.08
Expiration Date: March 10, 2020
Approval Date: February 12, 2015
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One Weather Shield Plaza
Medford, WI 54451

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA #14-0513.05 and consists of the pages 1 & 2 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



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2/15/15

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1568 Rev C**, titled "1604 Aluminum Clad Out-Swing Impact Door", sheets 1 through 18 of 18, dated 04/30/09 and last revised on DEC 11, 2014, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94(Sp#1: 0.24 cfm/sq@1.57 PSF)
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94 (see sheet 1 of the Dwgs)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of alum clad Wood doors w/ Panic device & ADA sill (Specimen #1), Single Wood Doors and Single Fixed Doors, prepared by Element Material Technology, Test Reports No(s) : **ESP01441P-1460R.1 & R.2**, dated 11/21/14, both signed and sealed by Thomas A. Kolden, P.E. (These test report have been revised by an addendum letter dated 02/05/15, issued by the test lab)

2. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of alum clad Wood doors and Wood doors w/ sidelite and / or transom window, prepared by Stork Twin City Testing, Corp., Test Report s No(s) : **180-7762.1, .2, .3, .4 & .5**, dated 06/10/09, includes addendum letter dated Jan 19, 2010, all signed and sealed by Thomas A. Kolden, P.E. (Submitted under file #11-1108/#09-0901.09).

C. CALCULATIONS

1. Anchor verification calculations dated DEC 11, 2014, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E-1300-02, 2004 & 2009.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **12-1231.09** issued to Eastman Chemical Co (MA) former Solutia Inc. for "**Saflex Clear or colored interlayer**", expiring on May 21, 2016.
2. ICC report ESR-1040, reissued on AUG 2014, for Versa-Lam LVL, issued to Boise Cascade Wood Products, supplied by Weyerhaeuser.
3. Reference Expired Notice of Acceptance No. **08-0814.08** issued to Weyerhaeuser for their "**Microllam Laminated Veneer Lumber (LVL)**."



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 14-0618.08

Expiration Date: March 10, 2020
Approval Date: February 12, 2015

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F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th edition) & "No financial interest, both dated Jun 12, 2014, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter dated FEB 16, 2012 issued by PFS Corp for Weyerhaeuser's Microllam LVL product manufacturing plant quality audit program, supplemented by PFS test report #97-45, signed and sealed by J. Robert Nelson, P.E. (Submitted under file #14-0513.05)
3. Lab compliance statements as a part of the above test reports.

G. OTHER

1. This NOA revises NOA # 14-0513.05, expired on March 10, 2020.
2. Test proposals dated 04/23/13 and # 07-3820 dated 12/12/07, approved by RER/BCCO.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 14-0618.08
Expiration Date: March 10, 2020
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GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- 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.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
- THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
- 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.
- 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.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
- 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 & EYEBROW FRAME TOP CORNERS: MEMBERS ARE RABBETED, BUTTED & SECURED WITH (3)THREE NO. 8 X 2 1/2" WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH SILICONE SEALANT.

ROUND TOP FRAME TOP CORNERS: MEMBERS ARE RABBETED, BUTTED, GLUED & SECURED WITH (2)TWO 5.500" X 1.500 X .040" GALVANIZED PLATES THAT RUN ACROSS THE STILE & RAIL INTERSECTION. THE GALVANIZED PLATES ARE SECURED TO THE STILE & RAIL WITH (12)TWELVE NO. 6 X 5/8" PFH SS SCREWS PER PLATE. CORNERS ARE SEALED WITH GLUE.

BOTTOM FRAME CORNERS: MEMBERS ARE RABBETED, BUTTED & SECURED WITH (4)FOUR NO. 8 X 2 1/2" WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH SILICONE SEALANT.

RECTANGULAR & EYEBROW PANEL TOP CORNERS: MEMBERS ARE BUTTED TOGETHER, JOINED WITH (2)TWO 3/4" X 3" WOOD DOWELS PER CORNER & (1)ONE NO. 8 X 2 1/2" WOOD SCREW THROUGH THE HORIZONTAL MEMBER INTO THE VERTICAL MEMBER. CORNERS ARE SEALED WITH WOOD GLUE THAT SECURES THE DOWELS.

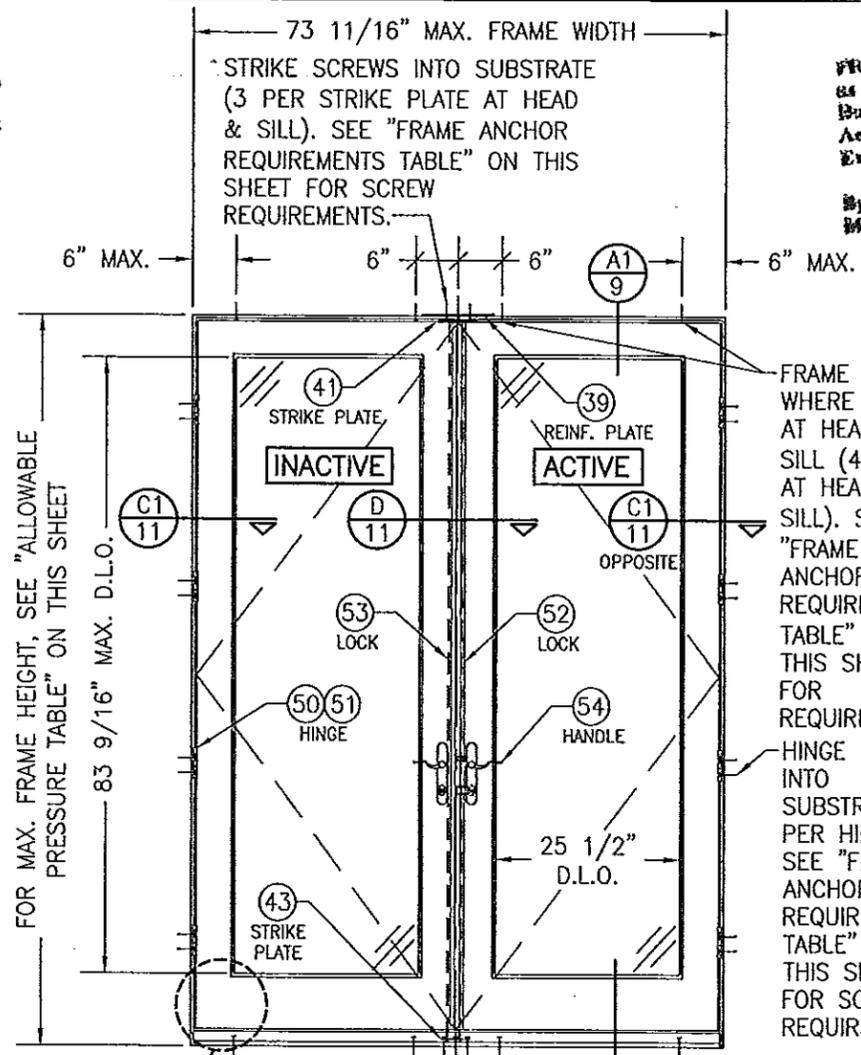
ROUND TOP PANEL TOP CORNERS: MEMBERS ARE BUTTED TOGETHER, JOINED WITH (4)FOUR 3/4" X 3" WOOD DOWELS PER SPRINGLINE. CORNERS ARE SEALED WITH WOOD GLUE THAT SECURES THE DOWELS.

PANEL BOTTOM CORNERS: MEMBERS ARE BUTTED TOGETHER, JOINED WITH (3)THREE 3/4" X 3" WOOD DOWELS PER CORNER & (1)ONE NO. 8 X 2 1/2" WOOD SCREW THROUGH THE HORIZONTAL MEMBER INTO THE VERTICAL MEMBER. CORNERS ARE SEALED WITH WOOD GLUE THAT SECURES THE DOWELS.

RECTANGULAR & EYEBROW FRAME CLADDING CORNERS: CLADDING IS MITERED TOGETHER & JOINED WITH (1)ONE NO. 6 X 1 1/4" PFH SS SCREW PER CORNER. CORNERS ARE SEALED WITH SILICONE SEALANT.

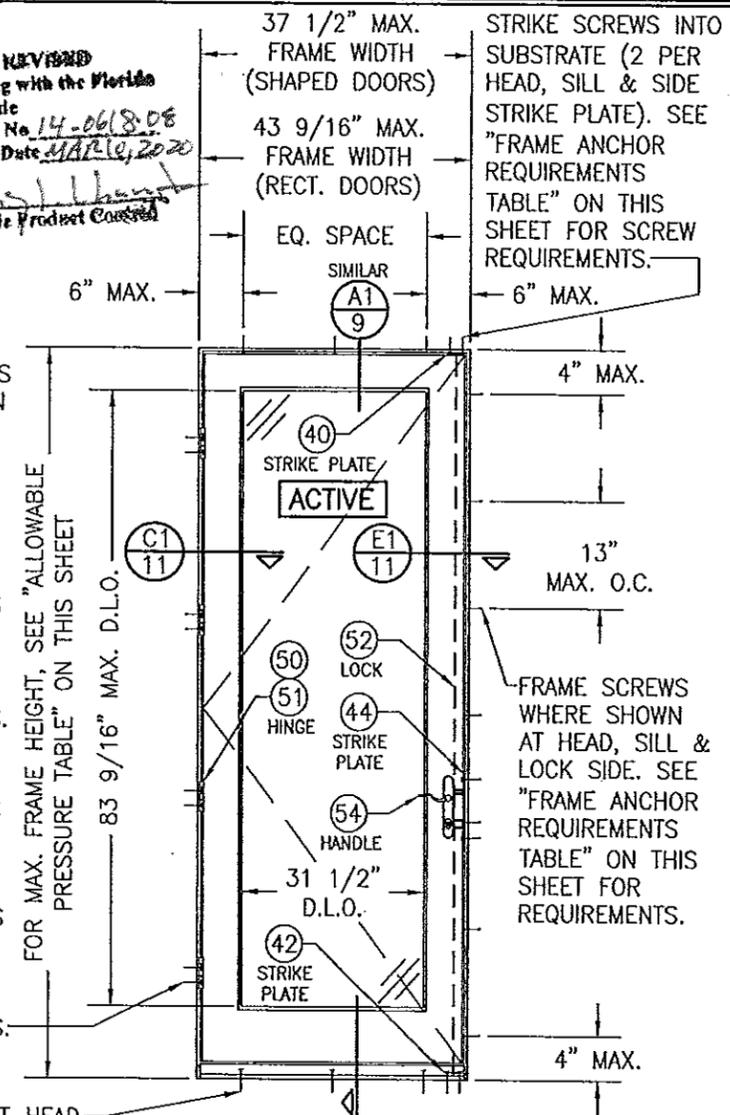
ROUND TOP FRAME CLADDING CORNERS: CONTINUOUS CLADDING IS SECURED TO THE FRAME.

PANEL CLADDING: CLADDING IS SQUARE CUT & SECURED TO THE SASH. CORNERS ARE SEALED WITH SILICONE SEALANT.



**EXTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR
WITH STANDARD LOCK HARDWARE**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)



**EXTERIOR ELEVATION:
SINGLE RECTANGULAR DOOR
WITH STANDARD LOCK HARDWARE**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

**ALLOWABLE DESIGN PRESSURE
(SINGLE & DOUBLE OPERABLE DOORS
WITH STANDARD LOCK HARDWARE)**

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
DOUBLE DOOR			
73 11/16	99 1/8	65	75
73 11/16	82	65	85
SINGLE DOOR			
43 9/16	99 1/8	65	75
37 1/2	82	65	85

**HINGE REQUIREMENTS
4 PER DOOR
(ALL DOOR CONDITIONS)**

NOTE: WHEN PANIC HARDWARE AND/OR 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.

FRAME ANCHOR REQUIREMENTS TABLE

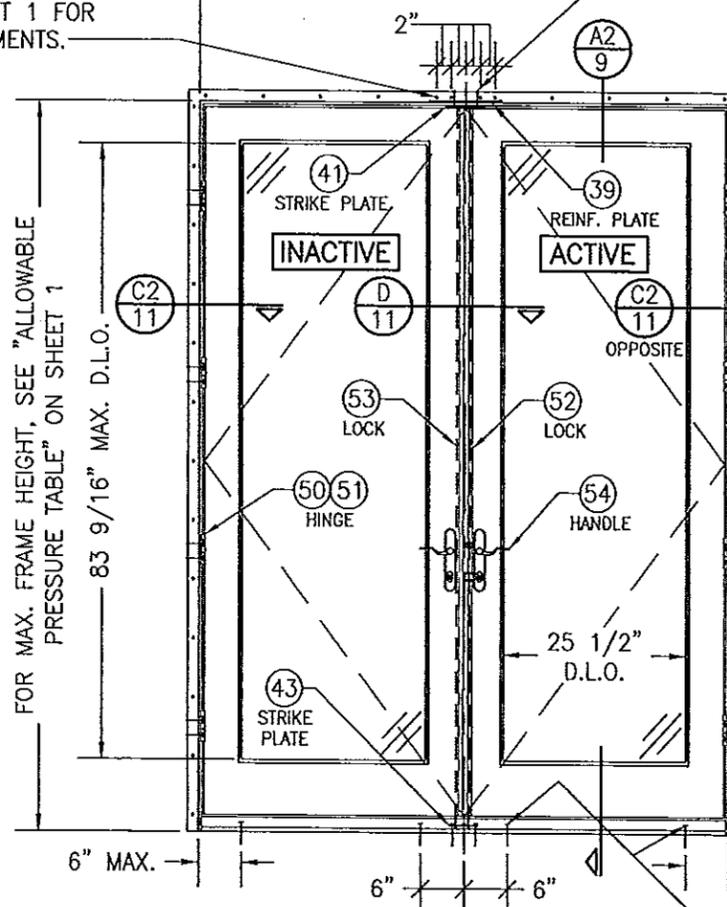
OPENING TYPE (SUBSTRATE)	FRAME/HINGE/STRIKE/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME/HINGE/STRIKE SCREWS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
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) C-90 CMU/2500 PSI CONCRETE	(1) 3/16" CONCRETE SCREW (STRIKES & ADJUSTABLE HINGE) (1) 1/4" CONCRETE SCREW (FRAME & BUTT HINGE)	1 1/4" (CMU) & 1 1/2" (CONCRETE)	2"
NAILING FIN FASTENERS			
(3) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	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"

- 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.).
- CMU IS APPLICABLE AT SIDES ONLY (NOT APPLICABLE AT HEAD & SILL)
- WOOD BUCKS MAY BE RIPPED DOWN TO 4 1/2" TO MEET JAMB DEPTH

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 04/30/09	
DATE	BY	DATE	BY
11/02/11	W.R.M.	04/16/14	W.W.S.
11/02/11	W.R.M.	09/04/14	W.W.S.
NO.	REVISION DESCRIPTION	NO.	REVISION DESCRIPTION
A1	UPDATE CONSULTANTS ADDRESS	B1	UPDATE TO CURRENT CODE
		C1	ADD PANIC DOORS
1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 53451 715-748-6555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION DEC 11 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1568 REV. C SHEET NO. 1 OF 18	

CLUSTER FIN ANCHORS AT MEETING STILE END LOCATION SUCH THAT THERE ARE A TOTAL OF 4 POSITIONED AS SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

73 11/16" MAX. FRAME WIDTH
 STRIKE SCREWS INTO SUBSTRATE (3 PER STRIKE PLATE AT HEAD & SILL). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR SCREW REQUIREMENTS.



**EXTERIOR ELEVATION:
 DOUBLE RECTANGULAR DOOR
 WITH STANDARD LOCK HARDWARE**

SCALE: 1/2" = 1'-0"
 (NAIL FIN MOUNT CONDITION)

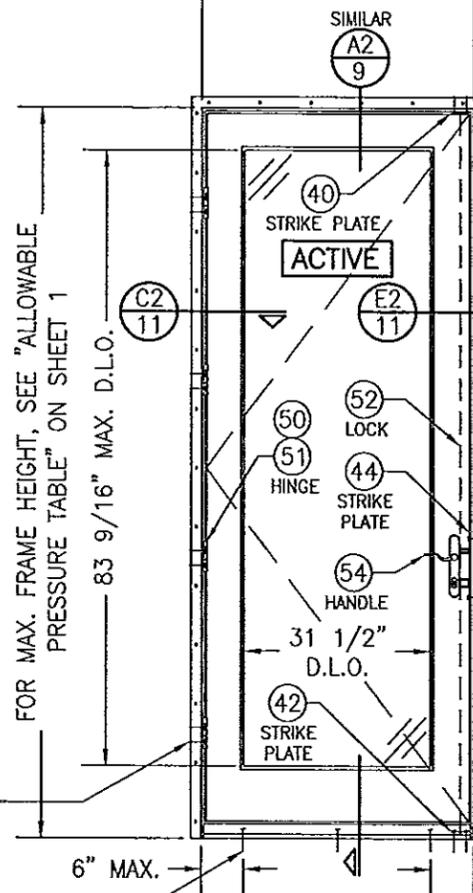
FIN FASTENER WITHIN 3" OF CORNERS & 8" MAX. O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

HINGE SCREW INTO SUBSTRATE (2 PER HINGE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR SCREW REQUIREMENTS.

FRAME SCREWS WHERE SHOWN AT SILL. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

ALLOWABLE DESIGN PRESSURE
 SEE PRESSURE TABLE ON SHEET 1

37 1/2" MAX. FRAME WIDTH (SHAPED DOORS)
 43 9/16" MAX. FRAME WIDTH (RECT. DOORS)



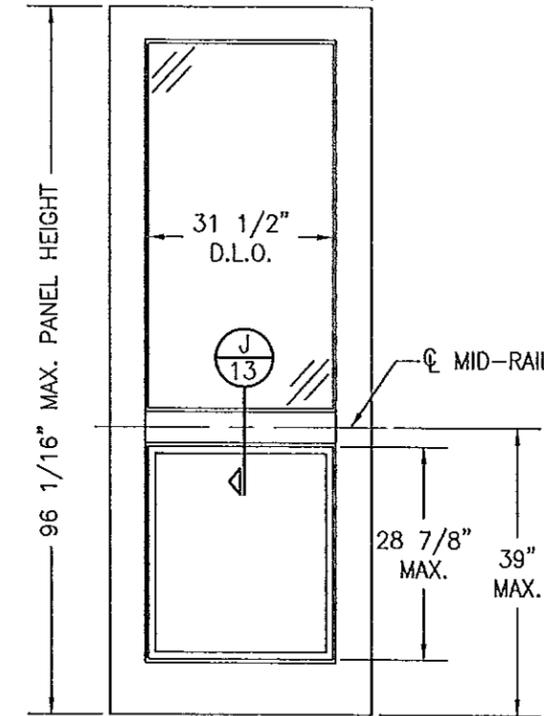
**EXTERIOR ELEVATION:
 SINGLE RECTANGULAR DOOR
 WITH STANDARD LOCK HARDWARE**

SCALE: 1/2" = 1'-0"
 (NAIL FIN MOUNT CONDITION)

FIN FASTENER WITHIN 3" OF CORNERS & 8" MAX. O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

STRIKE SCREWS INTO SUBSTRATE (2 PER HEAD, SILL & SIDE STRIKE PLATE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR SCREW REQUIREMENTS.

36" MAX. PANEL WIDTH (SHAPED DOORS)
 42" MAX. PANEL WIDTH (RECT. DOORS)



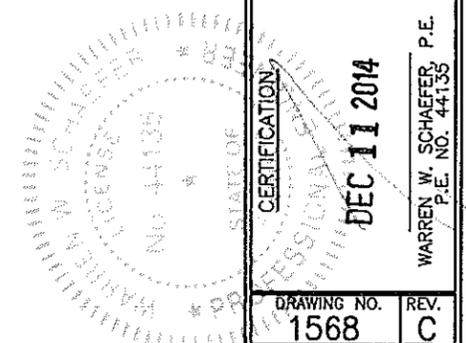
**EXTERIOR ELEVATION:
 PARTIAL RAISED PANEL**

SCALE: 1/2" = 1'-0"

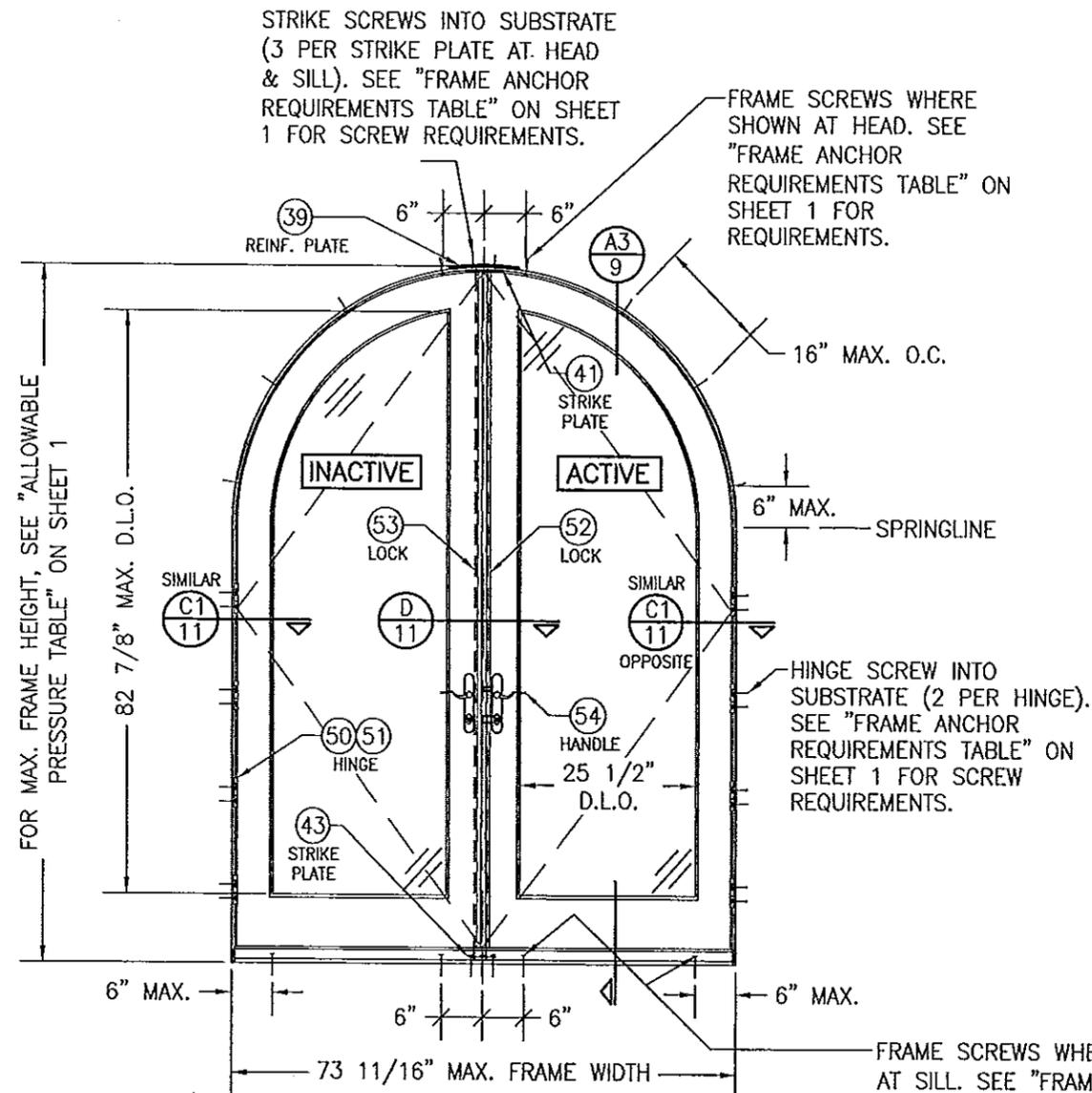
PANEL NOTES

- 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) PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0618-08
 Expiration Date 3/10/20
 By: *[Signature]*
 Grand Made Product Control

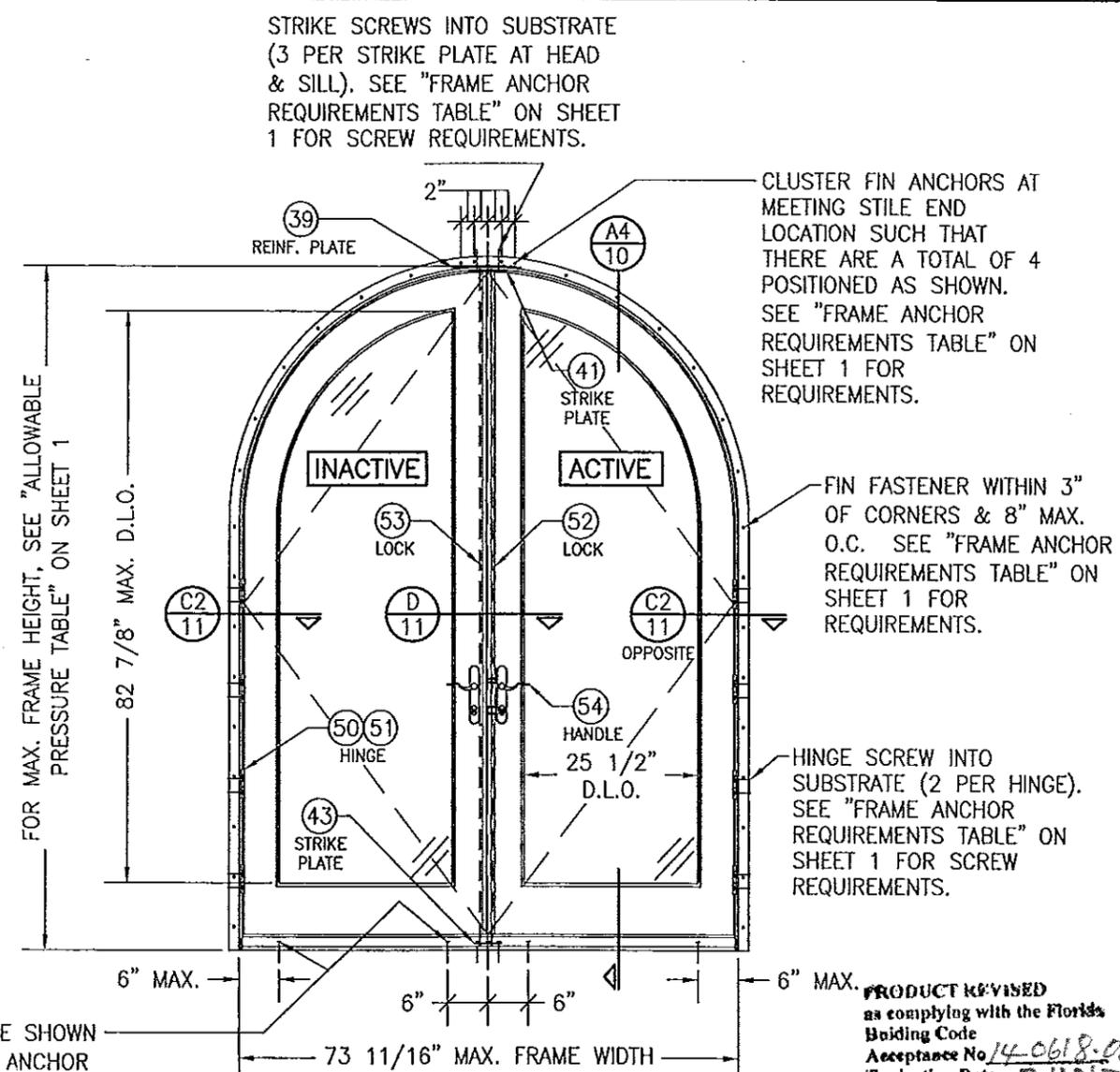


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 04/30/09	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555			
CERTIFICATION DEC 11 2014		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1568		REV. C	
SHEET NO. 2 OF 18			



**EXTERIOR ELEVATION:
DOUBLE HALF ROUND DOOR
WITH STANDARD LOCK HARDWARE**

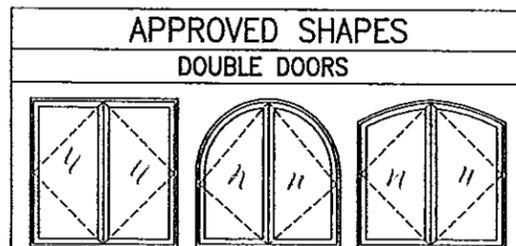
SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)



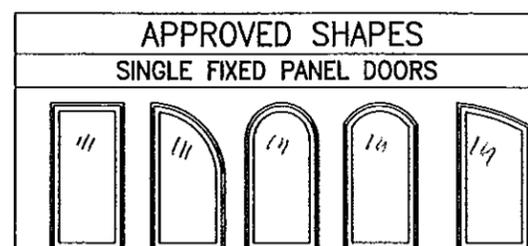
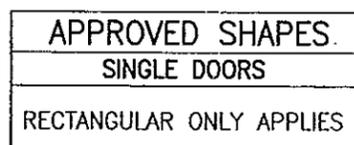
**EXTERIOR ELEVATION:
DOUBLE HALF ROUND DOOR
WITH STANDARD LOCK HARDWARE**

SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)

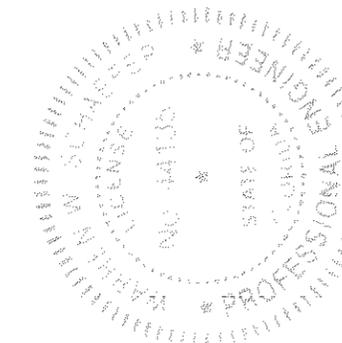
ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1



ANCHOR NOTE: RECTANGULAR & HALF ROUND DOORS SHALL BE ANCHORED PER ELEVATIONS. EYEBROW TOP DOORS SHALL HAVE ANCHORS AT THE HEAD EQUIVALENT TO THE HALF ROUND WHEN FRAME SCREW MOUNTED (SPACED 16" MAX. O.C. ALONG THE RADIUS).

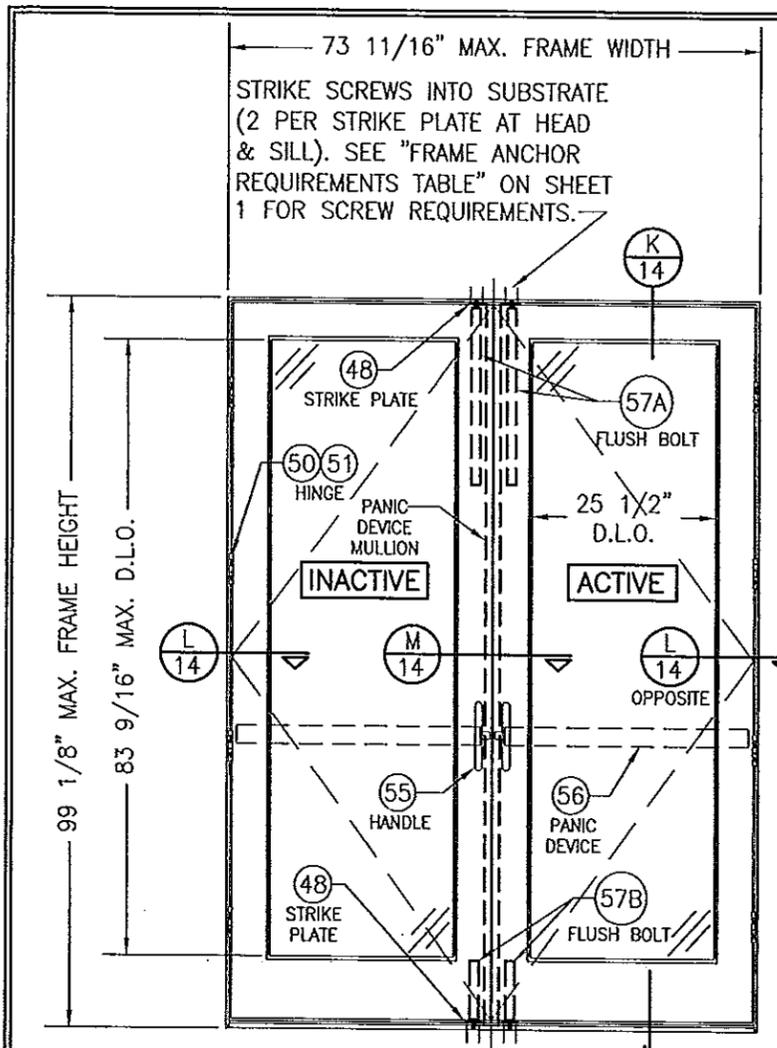


ANCHOR NOTE: SHAPED DOORS SHALL BE ANCHORED AS DETAILED WITH THE RECTANGULAR DOOR ELEVATIONS ON SHEET 4 EXCEPT THAT WHEN FRAME SCREW MOUNTED, THE SHAPED HEADS SHALL HAVE SCREWS PLACED WITHIN 6" OF CORNERS/SPRINGLINE & SPACED 16" MAX. O.C. AROUND THE RADIUS.

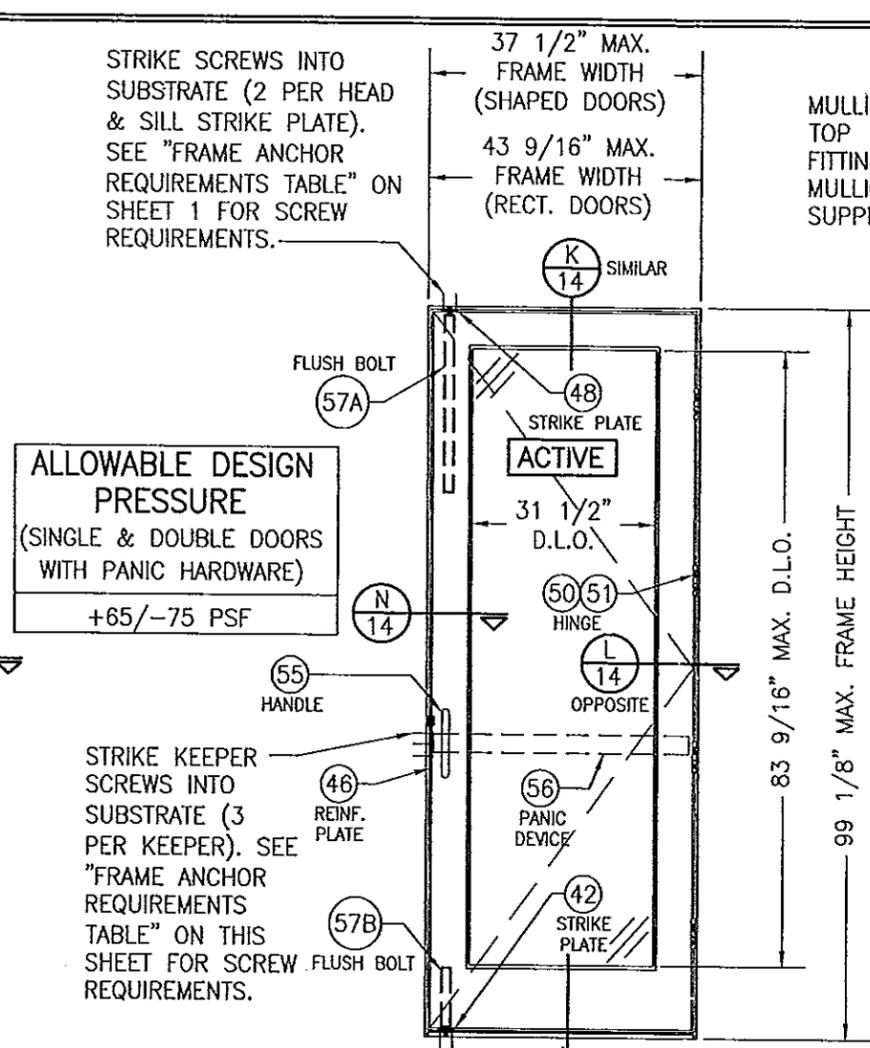


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 04/30/09
DATE	
BY	
NO.	
REVISION DESCRIPTION	
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
MANUFACTURER	WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION	DEC 11 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.
1568	C
SHEET NO.	
3	OF 18

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Expiration Date 3/10/20
By *Ismael J. Hernandez*
Miami Dade Product Council



**EXTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR
WITH PANIC HARDWARE**
SCALE: 1/2" = 1'-0"

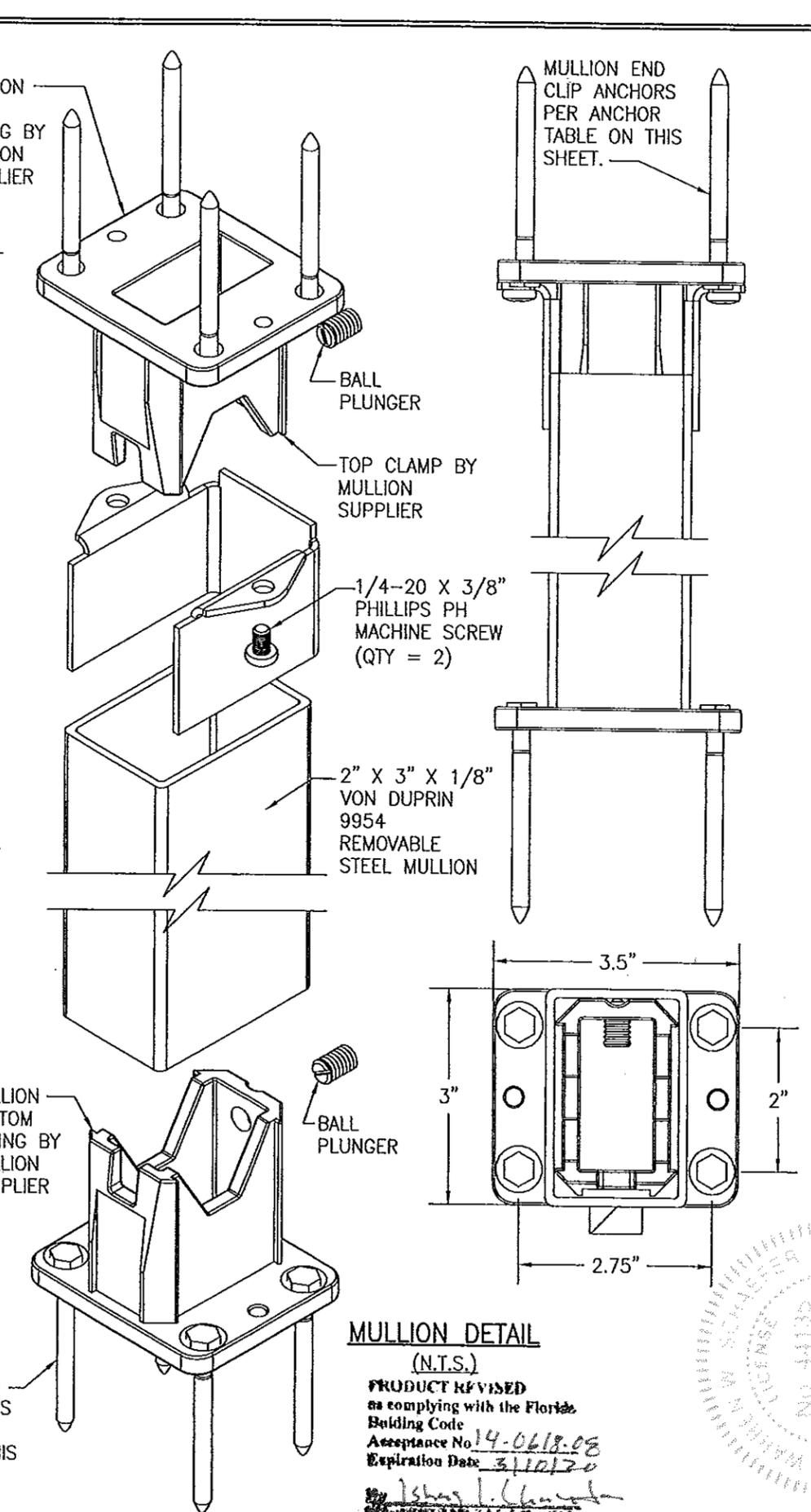


**EXTERIOR ELEVATION:
SINGLE RECTANGULAR DOOR
WITH PANIC HARDWARE**
SCALE: 1/2" = 1'-0"

ALLOWABLE DESIGN PRESSURE
(SINGLE & DOUBLE DOORS WITH PANIC HARDWARE)
+65/-75 PSF

STRIKE KEEPER SCREWS INTO SUBSTRATE (3 PER KEEPER). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

STRIKE SCREWS INTO SUBSTRATE (2 PER HEAD & SILL STRIKE PLATE). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR SCREW REQUIREMENTS.



MULLION DETAIL
(N.T.S.)

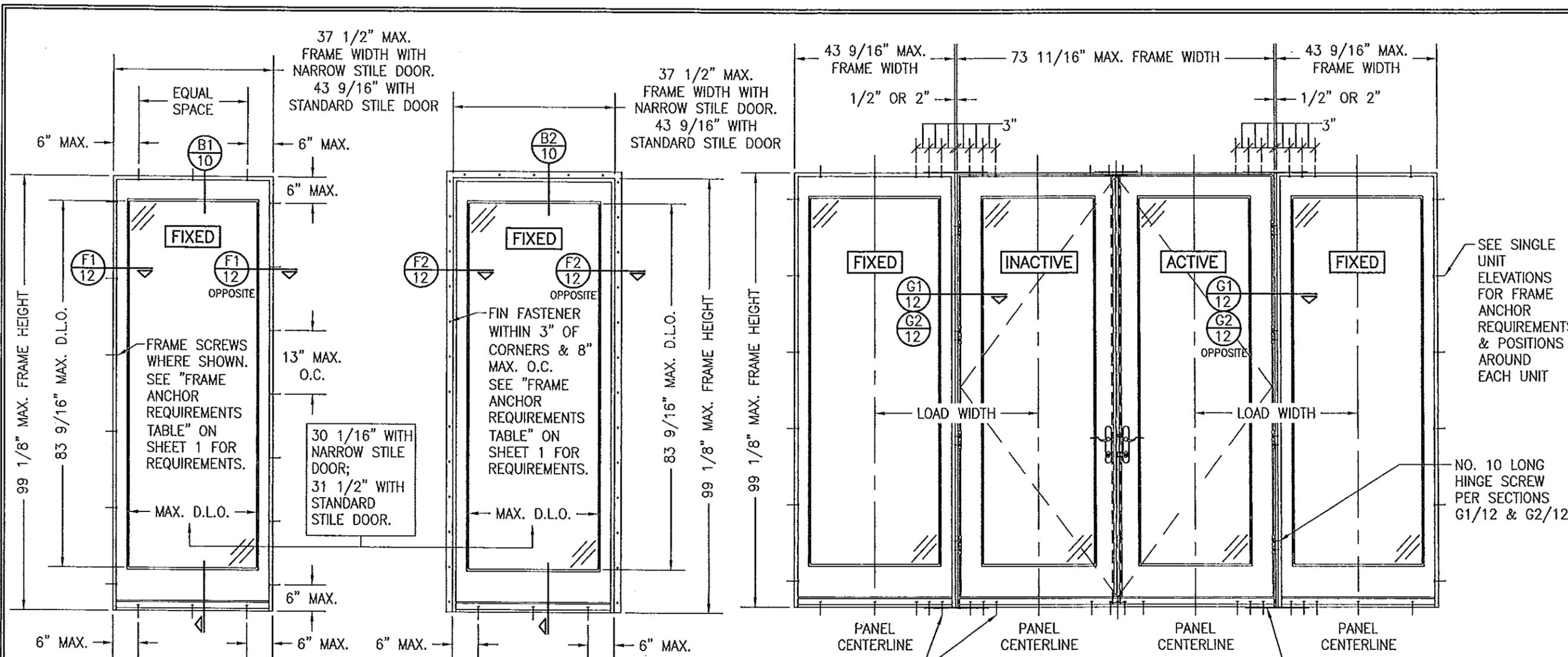
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0618-08
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- PANIC DOOR NOTES:**
1. INSTALLATION ANCHORS SHOWN IN THESE ELEVATIONS ARE PANIC DEVICE AND FLUSH BOLT STRIKE ANCHORS ONLY THAT ARE SPECIFIC TO DOORS WITH PANIC HARDWARE. FOR ALL FRAME AND HINGE ANCHORS NOT SHOWN, SEE ELEVATIONS ON SHEETS 1 THROUGH 3.
 2. BOTH FRAME SCREW AND NAIL FIN INSTALLS APPLY TO THESE DOORS.
 3. FOR ALL DOOR DETAIL NOT SHOWN, SEE ELEVATIONS ON SHEETS 1 THROUGH 3.
 4. SHAPES APPLY TO PANIC DOORS THE SAME AS FOR STANDARD HARDWARE DOORS. FOR SHAPED CONDITIONS SEE ELEVATIONS ON SHEET 3.
 5. FOR DOUBLE DOOR PANIC MULLION AND ITS END CONNECTIONS, SEE "PANIC DEVICE MULLION DETAILS" ON THIS SHEET.
 6. OPERABLE AND FIXED DOORS WITH PANIC HARDWARE AND/OR ADA SILL ARE NOT WATER RATED. SEE NOTE ON SHEET 1 FOR WATER RESTRICTION.

PANIC DEVICE MULLION END ANCHOR REQUIREMENTS TABLE			
OPENING TYPE (SUBSTRATE)	FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	1/4" LAG SCREW	1 1/4"	1"
MIN. 16 GA. 33 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. 1/8" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	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.).

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 04/30/09
NO.	REVISION DESCRIPTION
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424	
CERTIFICATION STATE OF FLORIDA DEC 11 2004 PROFESSIONAL ENGINEER WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1568	REV. C
SHEET NO. 4 OF 18	



**EXTERIOR ELEVATION:
SINGLE FIXED PANEL DOOR**
SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)

**EXTERIOR ELEVATION:
SINGLE FIXED PANEL DOOR**
SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)

**EXTERIOR ELEVATION:
DOUBLE DOORS WITH FIXED PANELS**
SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)
(RECTANGULAR DOORS SHOWN, EYEBROW TOP CONDITION ALSO APPLIES)

ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANEL DOOR)	
MAX. FRAME WIDTH	ALLOWABLE PRESSURE
37 1/2"	+65/-85 PSF
43 9/16"	+65/-75 PSF

ALLOWABLE DESIGN PRESSURE (SIDE BY SIDE UNITS)	
MAX. LOAD WIDTH	ALLOWABLE PRESSURE
39 1/2"	+65.0/-75.0 PSF
42 1/2"	+60.4/-69.7 PSF
45 1/2"	+56.4/-65.1 PSF

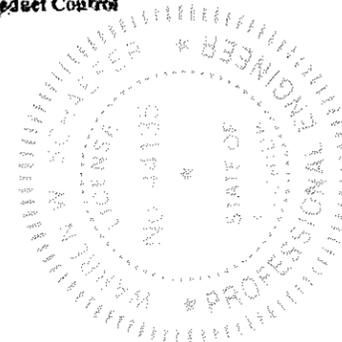
ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS (4 SCREWS TOTAL WHEN REQ'D PRESSURE ON DOOR IS +/-60 PSF OR LESS; 6 TOTAL WHEN REQ'D PRESSURE IS GREATER THAN +/-60 PSF). SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

0.05" X 4" X 15" 50 KSI GALVANIZED MULLION END REINFORCEMENT PLATE AT EACH MULLION END LOCATION. SECURED TO EACH FRAME/SILL MEMBER WITH FIVE(5) 16 GA. X 7/16" X 1/2" LONG STAPLES.

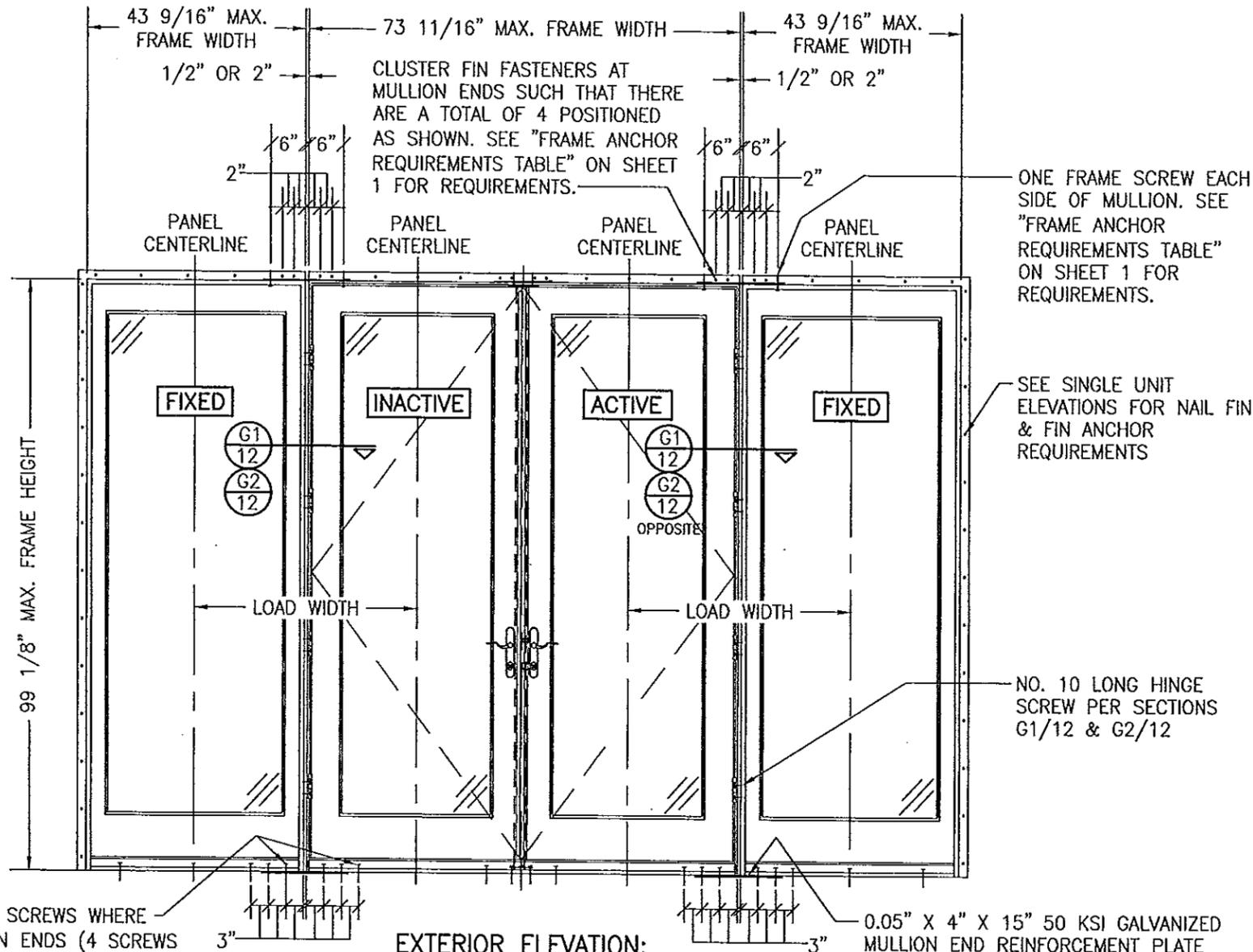
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Expiration Date 3/10/20
By [Signature]
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MULTIPLE UNIT NOTES:

- FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
- THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
- OXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
- INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.
- DOORS WITH STANDARD AND PANIC LOCK HARDWARE APPLY.



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PLOT: 1-24	DATE: 04/30/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	DEC 11 2014
DRAWING NO. 1568	REV. C
SHEET NO. 5 OF 18	



ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS (4 SCREWS TOTAL WHEN REQ'D PRESSURE ON DOOR IS +/-60 PSF OR LESS; 6 TOTAL WHEN REQ'D PRESSURE IS GREATER THAN +/-60 PSF) . SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

**EXTERIOR ELEVATION:
DOUBLE DOORS WITH FIXED PANELS**

SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)
(RECTANGULAR DOORS SHOWN, EYEBROW TOP CONDITION ALSO APPLIES)

ALLOWABLE DESIGN PRESSURE (SIDE BY SIDE UNITS)	
MAX. LOAD WIDTH	ALLOWABLE PRESSURE
39 1/2"	+65.0/-75.0 PSF
42 1/2"	+60.4/-69.7 PSF
45 1/2"	+56.4/-65.1 PSF

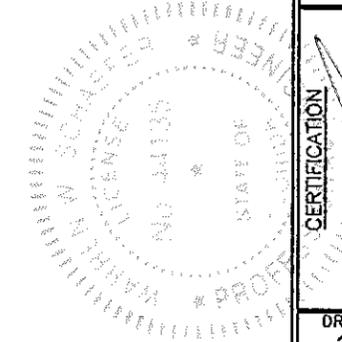
MULTIPLE UNIT NOTES:

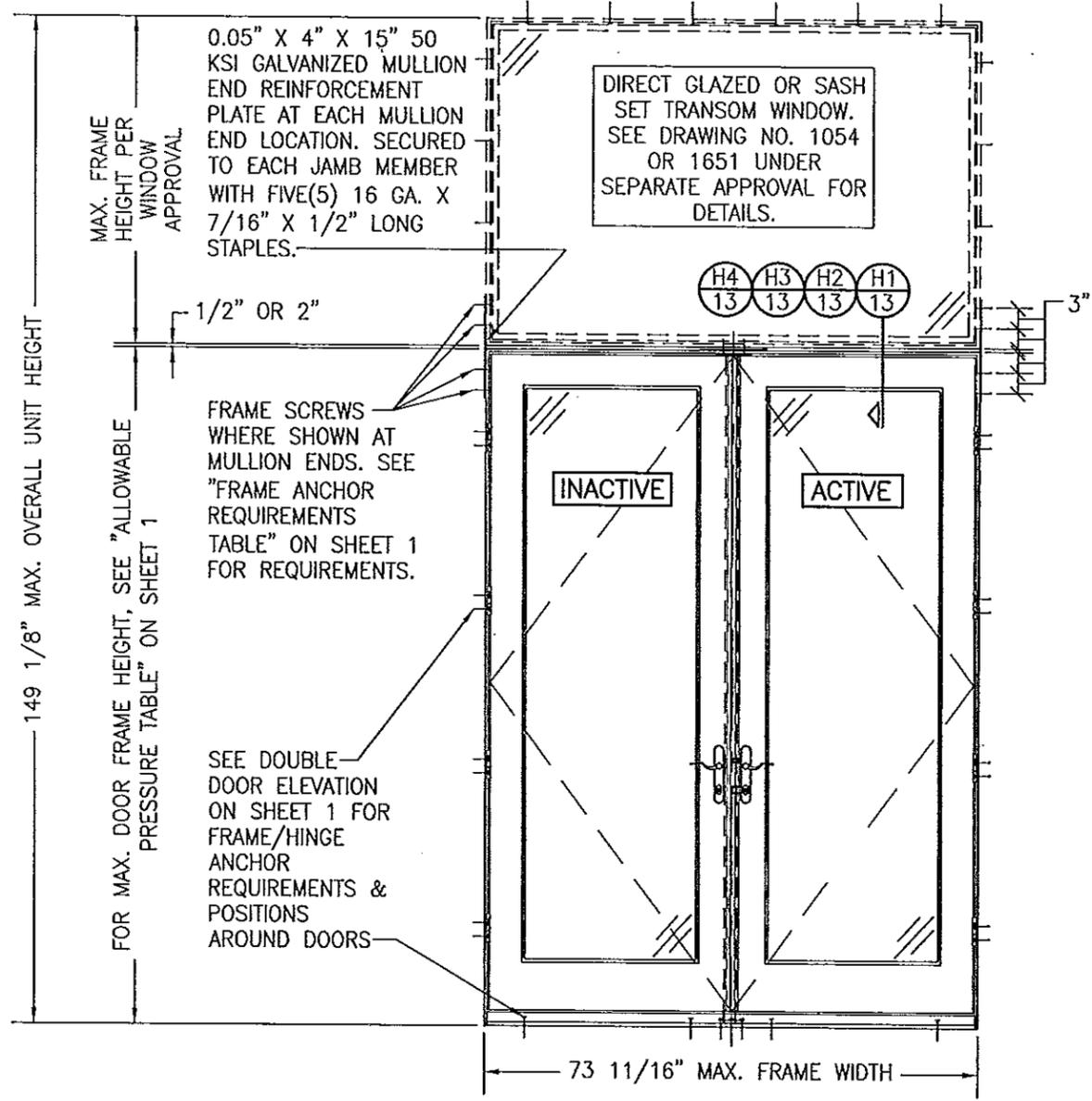
1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.
5. DOORS WITH STANDARD AND PANIC LOCK HARDWARE APPLY.

0.05" X 4" X 15" 50 KSI GALVANIZED MULLION END REINFORCEMENT PLATE AT EACH MULLION END LOCATION. SECURED TO EACH FRAME/SILL MEMBER WITH FIVE(5) 16 GA. X 7/16" X 1/2" LONG STAPLES.

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Expiration Date: 3/10/20
By: *[Signature]*
Product Control

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PLOT: 1-24	DATE: 04/30/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS	ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION DEC 11 2014	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1568	REV. C
SHEET NO. 6 OF 18	





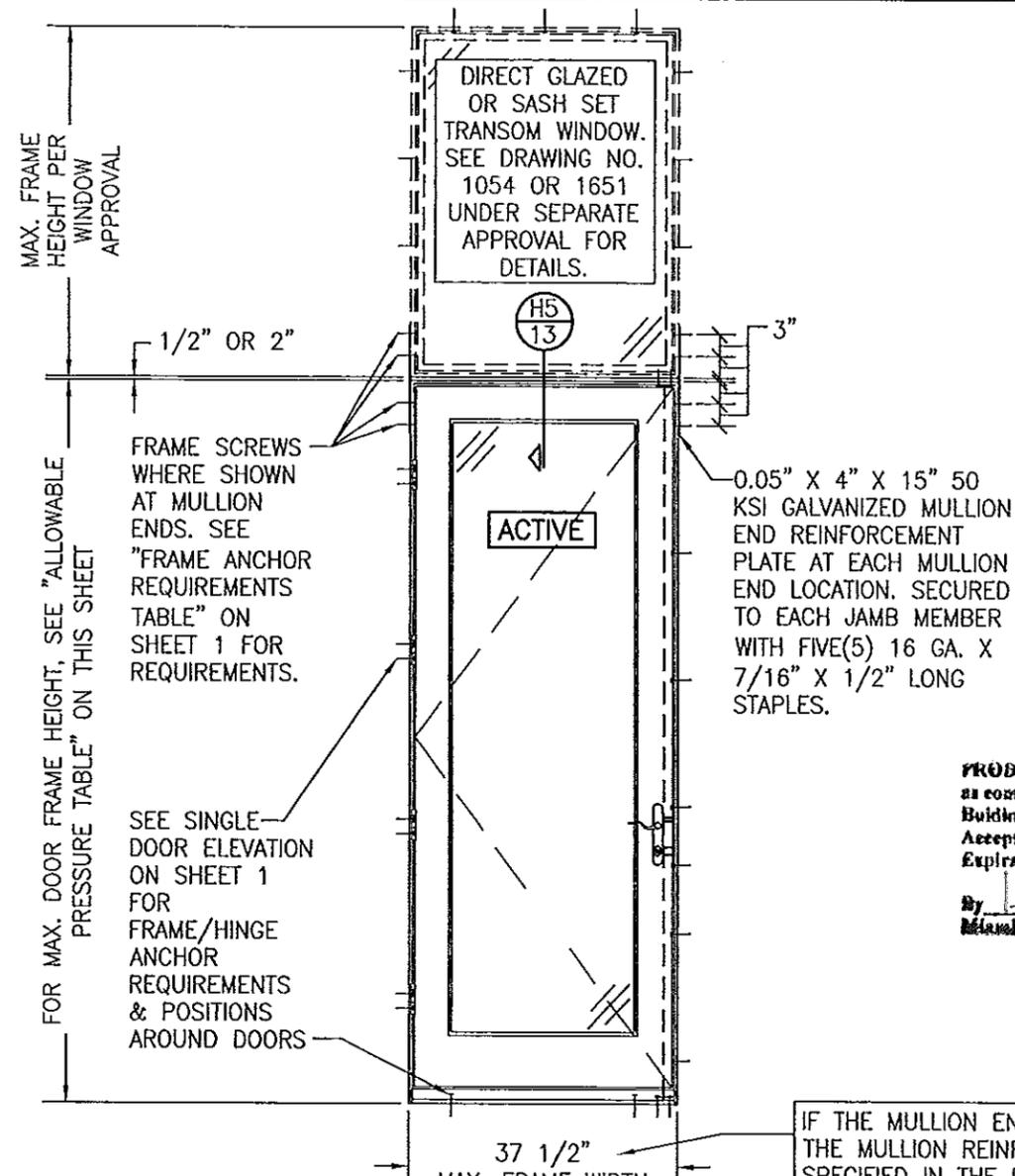
**EXTERIOR ELEVATION:
DOUBLE DOORS WITH TRANSOM**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)
(SEE DOUBLE RECTANGULAR DOOR ELEVATIONS ON SHEET 1 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (DOUBLE DOOR WITH TRANSOM UNIT)			
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(1) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
73 11/16	149 1/8	65	75
73 11/16	130 1/4	65	85

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOOR & TRANSOM SHALL CONTROL.

NOTE: ALL LOCK HARDWARE CONDITIONS APPLY TO THESE TRANSOM UNITS.



**EXTERIOR ELEVATION:
SINGLE DOOR WITH TRANSOM**

SCALE: 1/2" = 1'-0"
(FRAME SCREW MOUNT CONDITION)
(SEE SINGLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 1 & 5 FOR DOOR DETAIL NOT SHOWN)
(OPERABLE DOOR SHOWN. FIXED PANEL DOOR ALSO APPLIES)

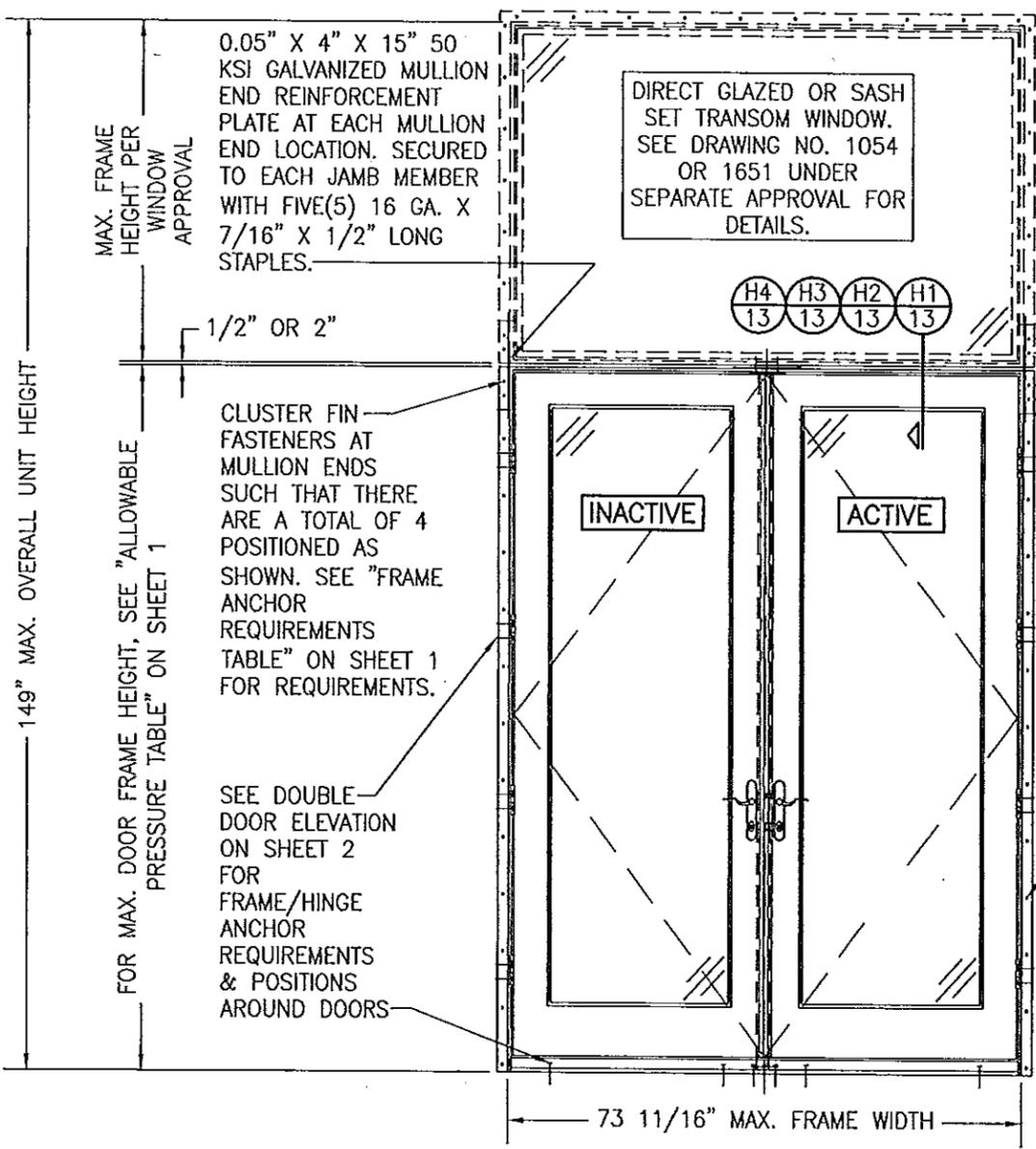
ALLOWABLE DESIGN PRESSURE (SINGLE DOOR WITH TRANSOM UNIT)			
MAX. FRAME WIDTH (IN.)	MAX. DOOR FRAME HEIGHT (IN.)	(1) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
37 1/2	99 1/8	65	75
37 1/2	82	65	85

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOOR & TRANSOM SHALL CONTROL.

IF THE MULLION END CONNECTION AND THE MULLION REINFORCEMENT IS THAT SPECIFIED IN THE DOUBLE DOOR WITH TRANSOM UNIT, THE MAX. FRAME WIDTH OF THIS UNIT MAY BE INCREASED TO 43 9/16" AT A ALLOWABLE DESIGN PRESSURE OF +65/-75 PSF.

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Expiration Date 3/16/20
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DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 04/30/09	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418, PHONE: 561-744-3424		ONE WEATHER SHIELD PLAZA, MEDFORD, WI 54451, 715-748-6555	
CERTIFICATION: DEC 11 2014		WARREN W. SCHAEFER, P.E., P.E. NO. 44135	
DRAWING NO. 1568		REV. C	
SHEET NO. 7 OF 18			

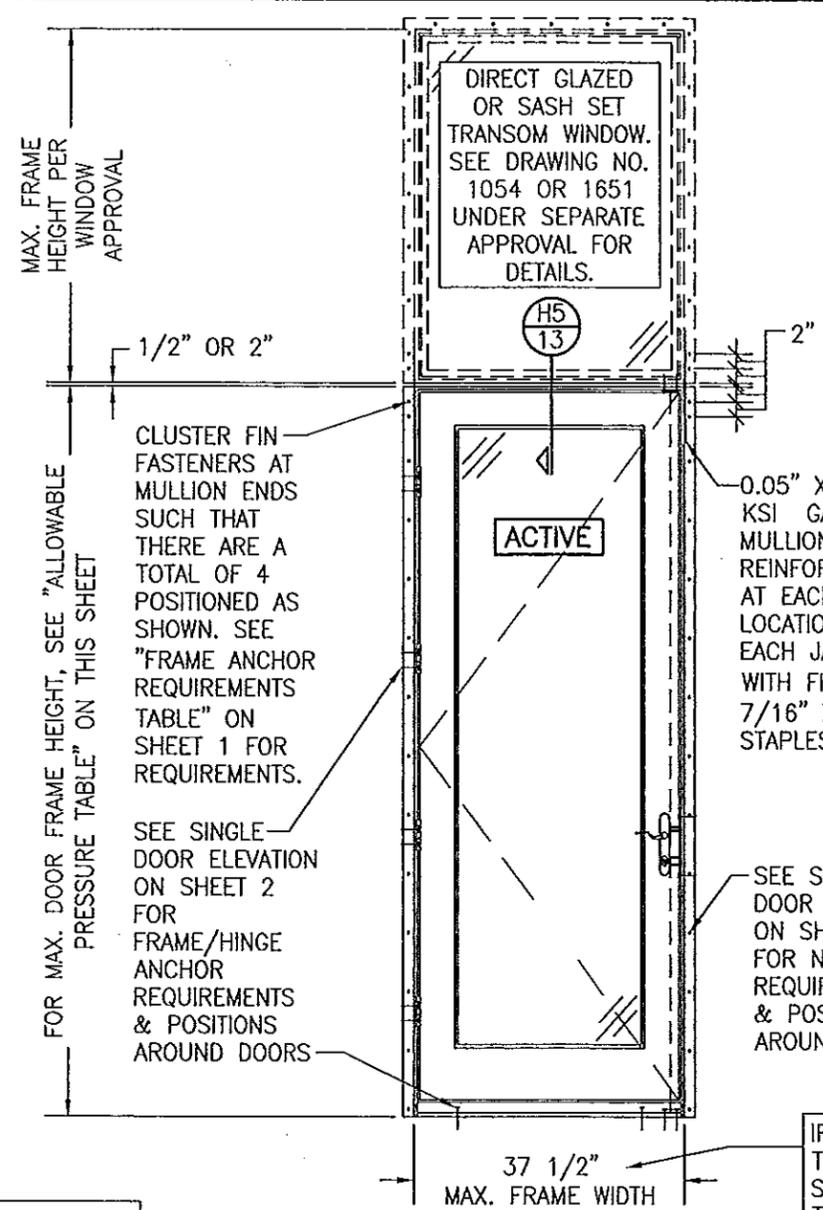


**EXTERIOR ELEVATION:
DOUBLE DOORS WITH TRANSOM**
SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)
(SEE DOUBLE RECTANGULAR DOOR ELEVATIONS ON SHEET 2 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (DOUBLE DOOR WITH TRANSOM UNIT)			
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(1) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
73 11/16	149 1/8	65	75
73 11/16	130 1/4	65	85

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOOR & TRANSOM SHALL CONTROL.

NOTE: ALL LOCK HARDWARE CONDITIONS APPLY TO THESE TRANSOM UNITS.



**EXTERIOR ELEVATION:
SINGLE DOOR WITH TRANSOM**
SCALE: 1/2" = 1'-0"
(NAIL FIN MOUNT CONDITION)
(SEE SINGLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 5 FOR DOOR DETAIL NOT SHOWN)
(OPERABLE DOOR SHOWN. FIXED PANEL DOOR ALSO APPLIES)

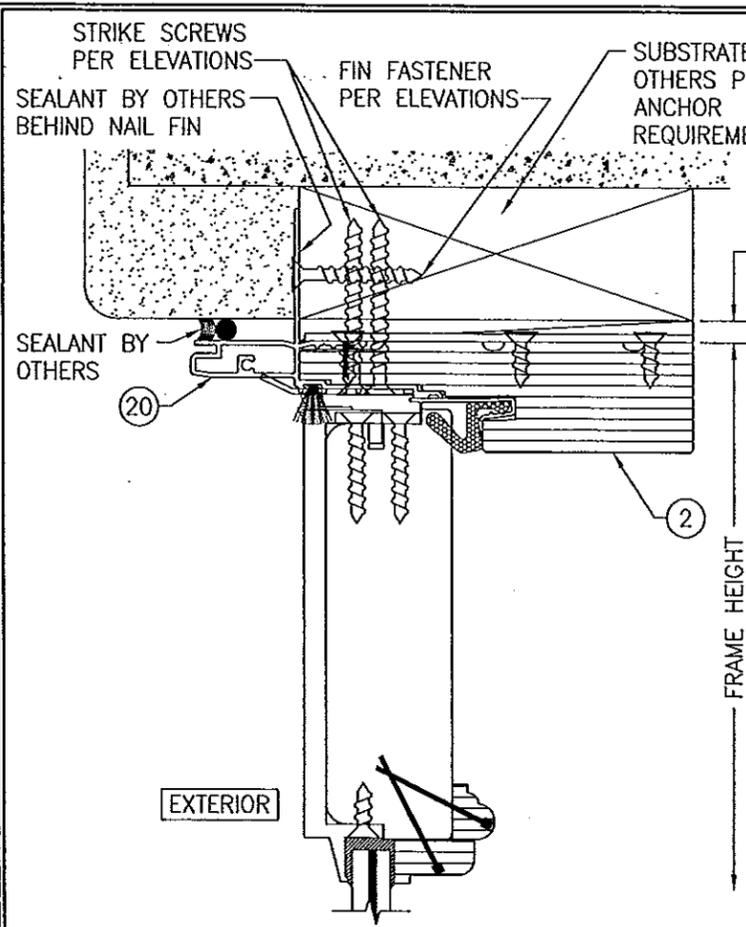
ALLOWABLE DESIGN PRESSURE (SINGLE DOOR WITH TRANSOM UNIT)			
MAX. FRAME WIDTH (IN.)	MAX. DOOR FRAME HEIGHT (IN.)	(1) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
37 1/2	99 1/8	65	75
37 1/2	82	65	85

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOOR & TRANSOM SHALL CONTROL.

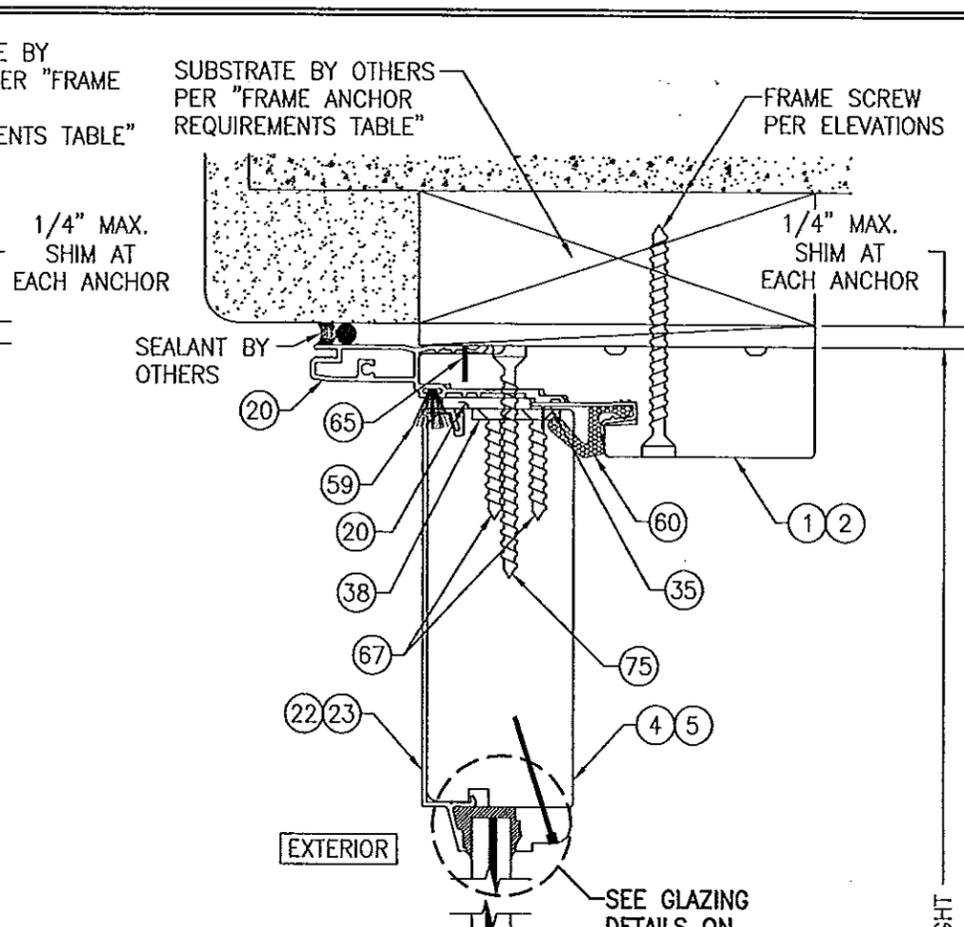
IF THE MULLION END CONNECTION AND THE MULLION REINFORCEMENT IS THAT SPECIFIED IN THE DOUBLE DOOR WITH TRANSOM UNIT, THE MAX. FRAME WIDTH OF THIS UNIT MAY BE INCREASED TO 43 9/16" AT A ALLOWABLE DESIGN PRESSURE OF +65/-75 PSF.

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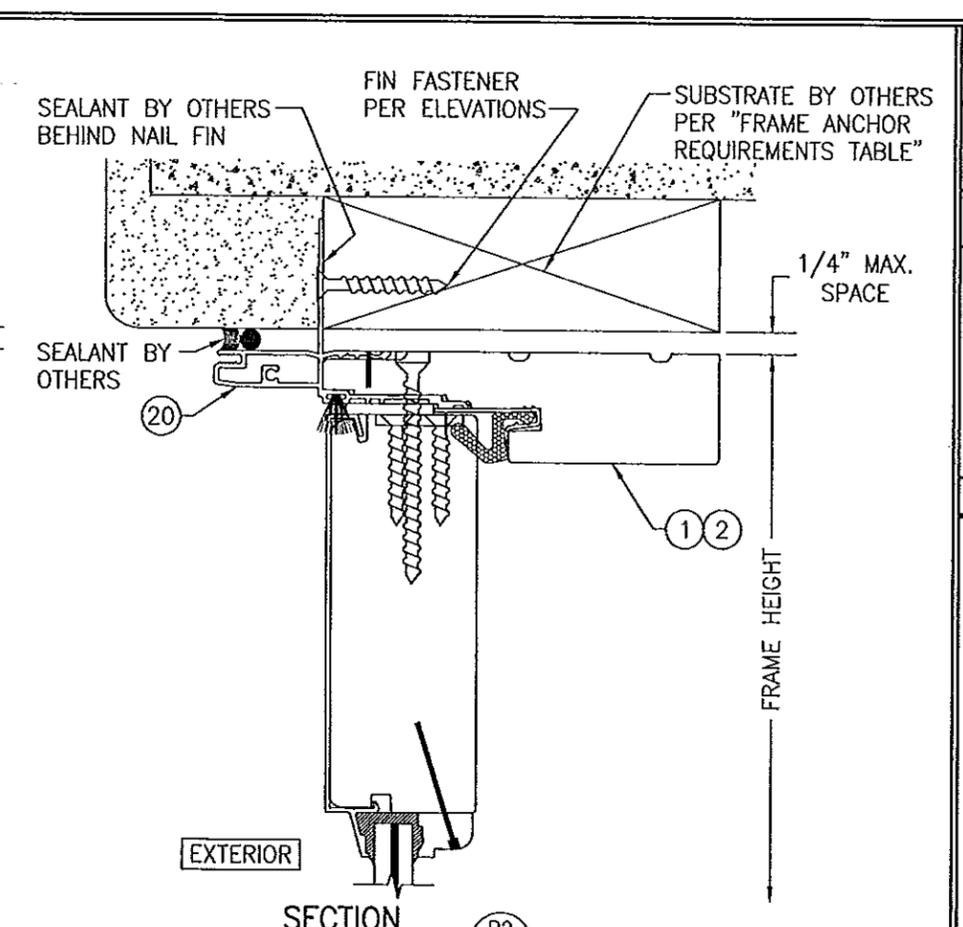
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PLOT: 1-24		DATE: 04/30/09	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER WEATHER SHIELD WINDOWS & DOORS	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CERTIFICATION DEC 11 2014 WARREN W. SCHAEFER P.E. P.E. NO. 44133			
DRAWING NO. 1568		REV. C	
SHEET NO. 8 OF 18			



SECTION A4
SCALE: 1/2 FULL 10
(NAIL FIN MOUNT)
(FOR DETAIL & SILL SECTION NOT SHOWN, SEE SECTION A3/9)

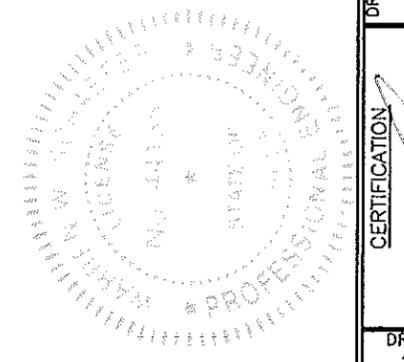


SECTION B1
SCALE: 1/2 FULL 10
(FRAME SCREW MOUNT)

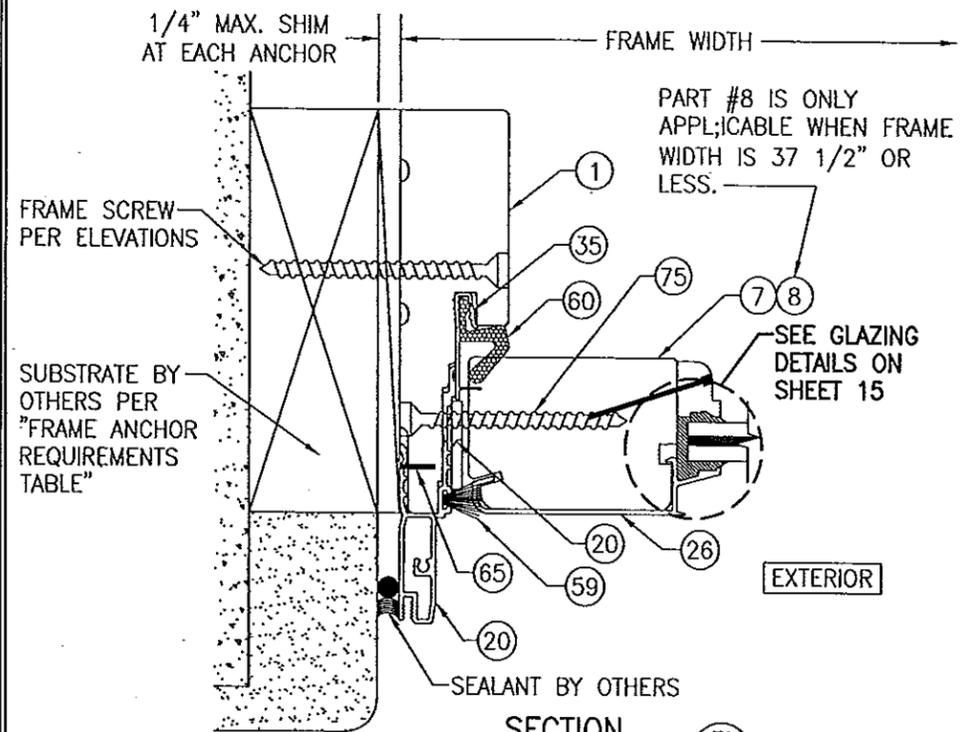


SECTION B2
SCALE: 1/2 FULL 10
(NAIL FIN MOUNT)
(FOR DETAIL & SILL SECTION NOT SHOWN, SEE SECTION B1/10)

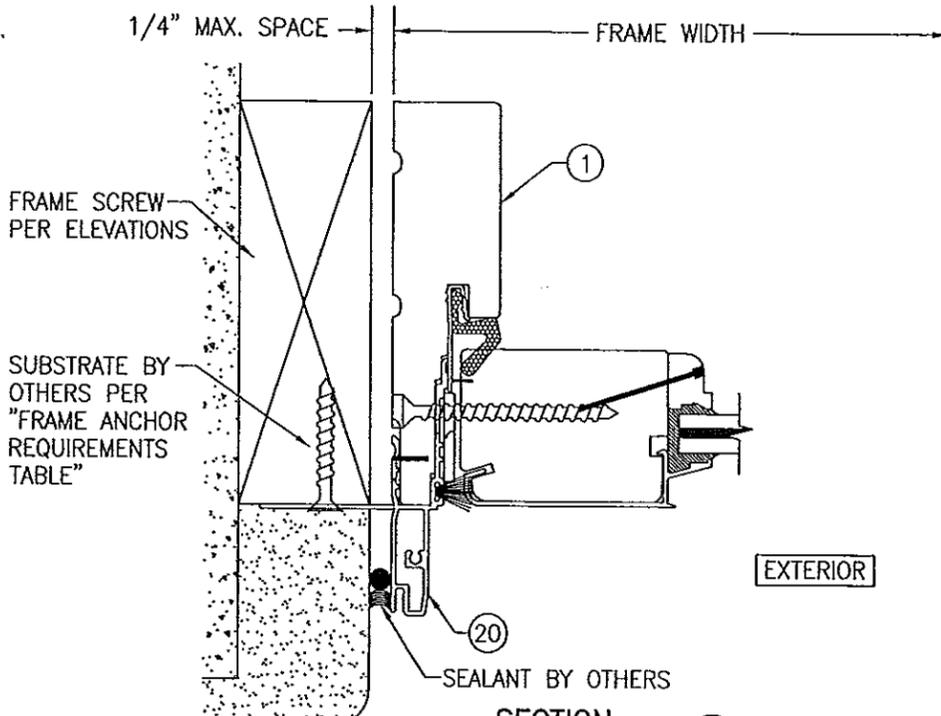
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Building Code
Acceptance No. 14-0618-05
Expiration Date 3/10/20
by [Signature]
Miami Data Project Control



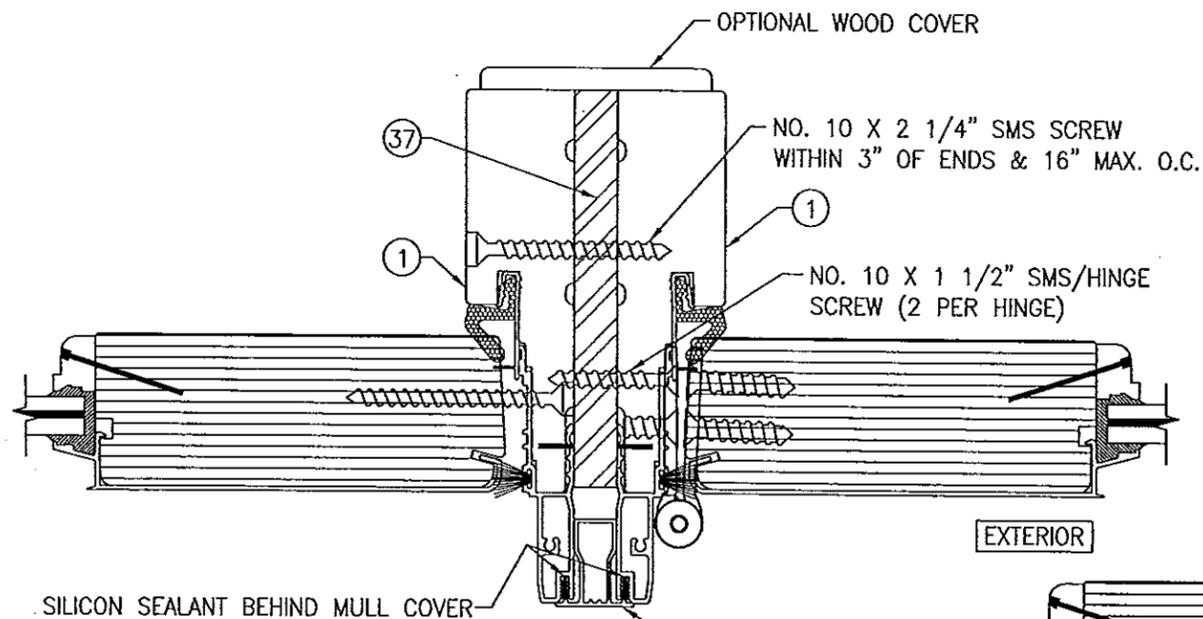
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/30/09	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CERTIFICATION: DEC 11 2014		WARREN W. SCHAEFER, P.E. P.E. NO. 44133	
DRAWING NO. 1568	REV. C	SHEET NO. 10 OF 18	



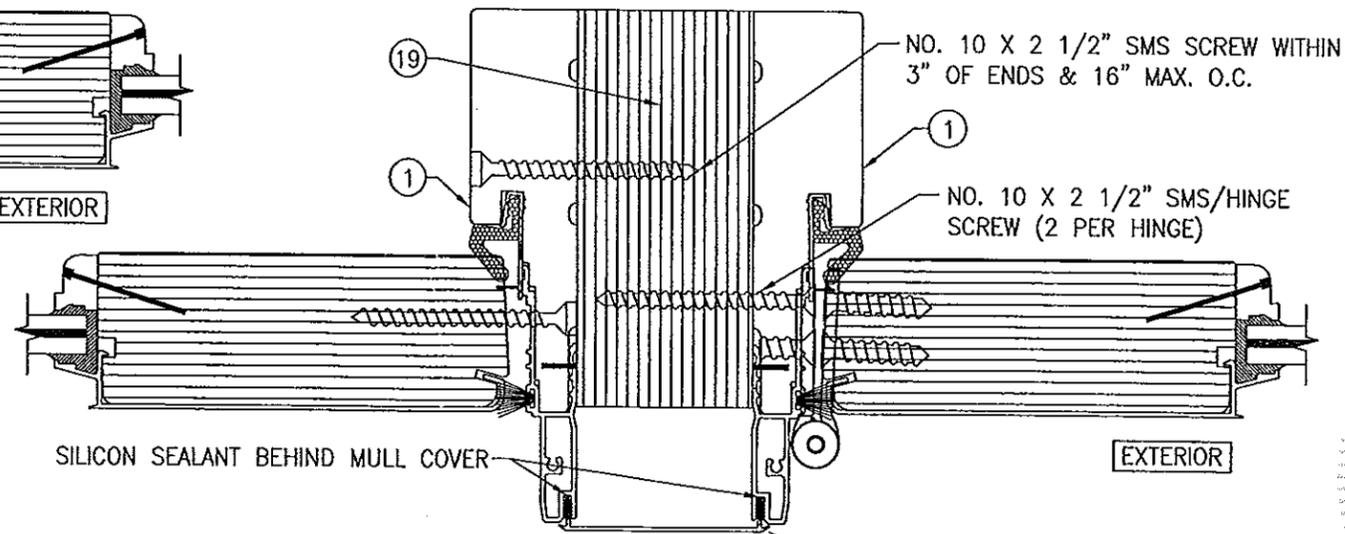
SECTION **F1**
SCALE: 1/2 FULL **12**
(FRAME SCREW MOUNT)



SECTION **F2**
SCALE: 1/2 FULL **12**
(NAIL FIN MOUNT)
(FOR DETAIL NOT SHOWN, SEE SECTION F1/12)

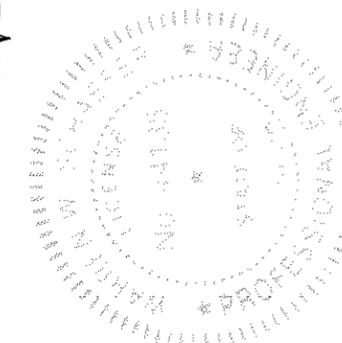


SECTION **G1**
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(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

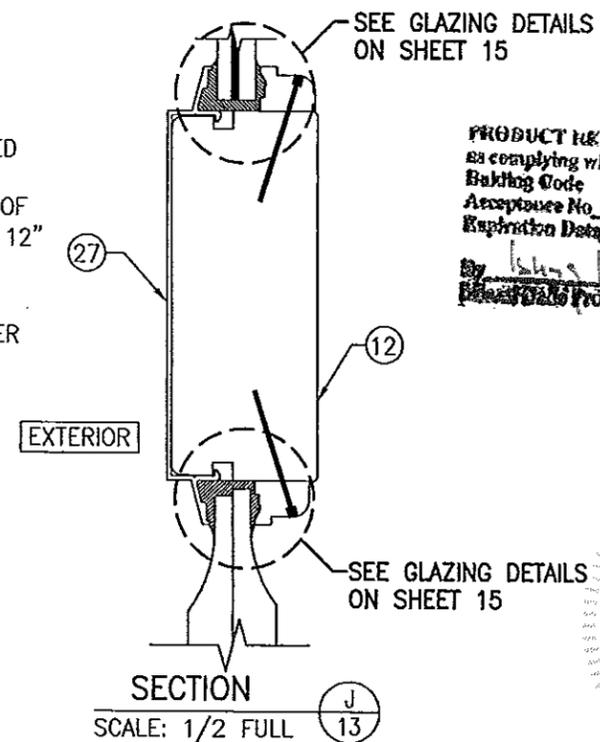
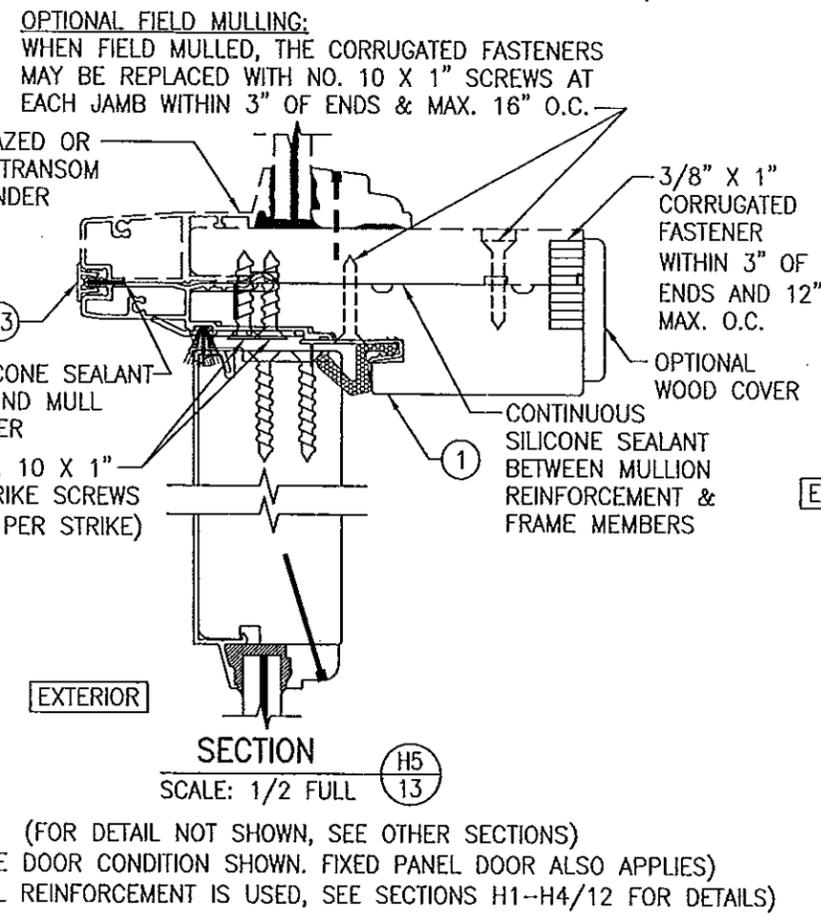
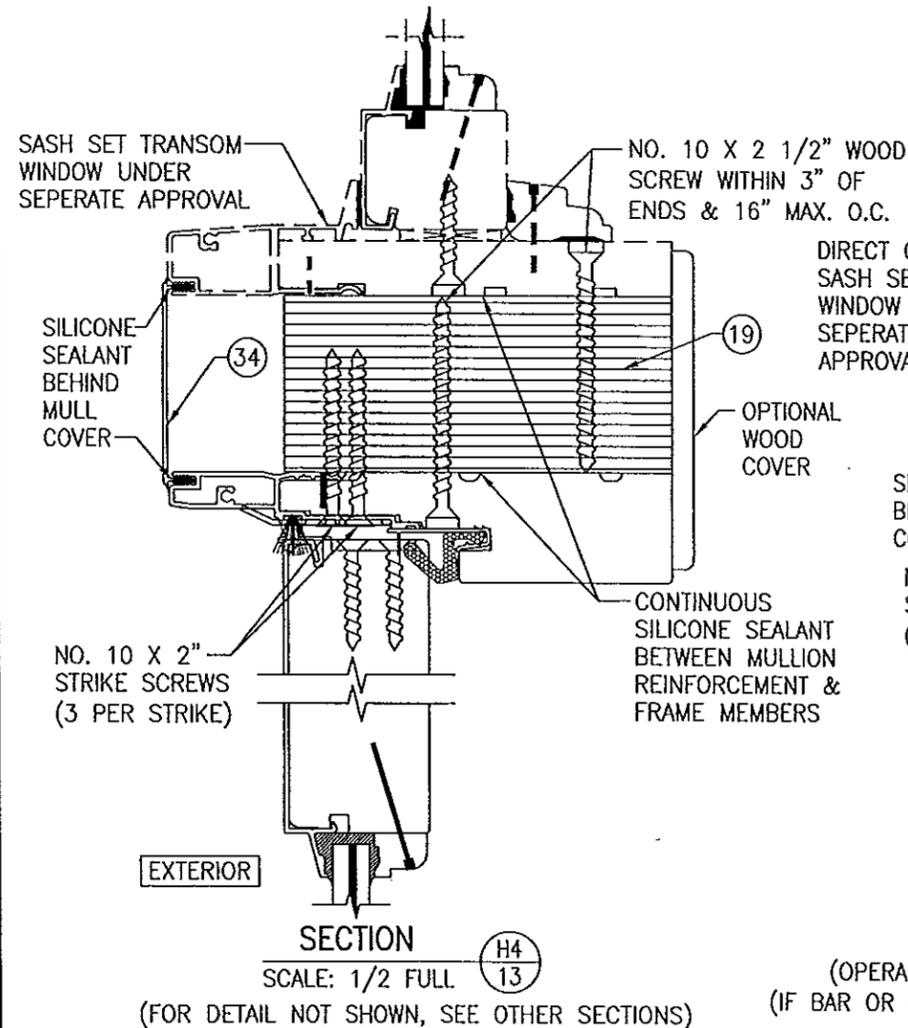
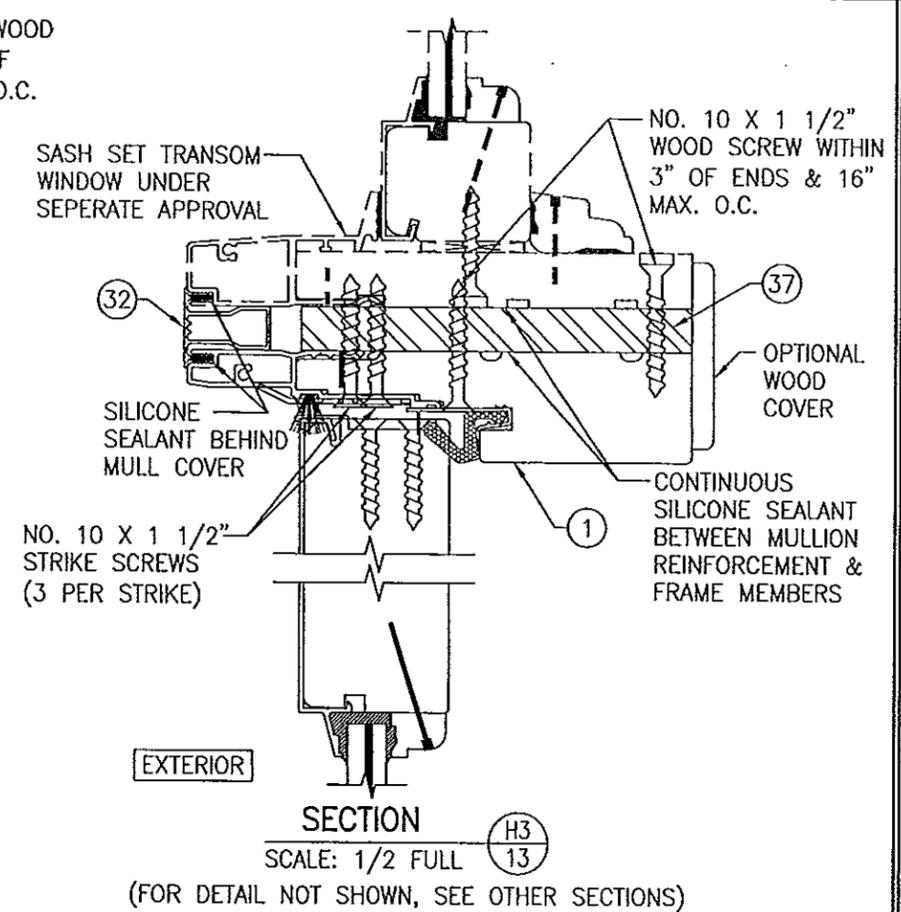
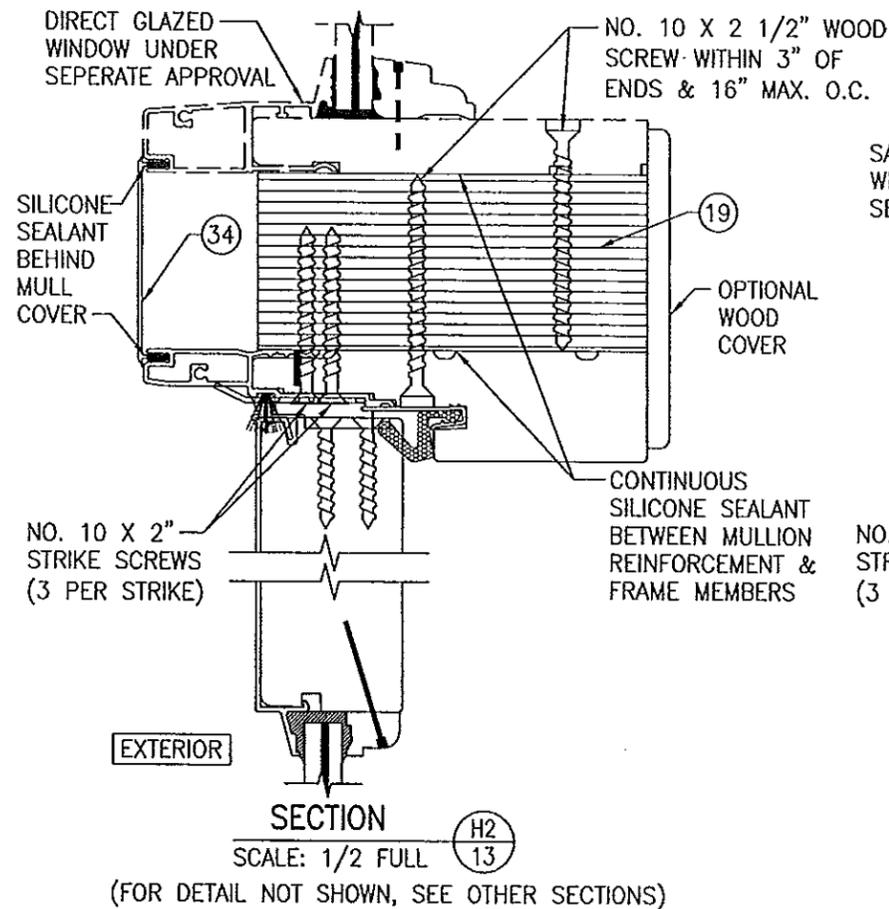
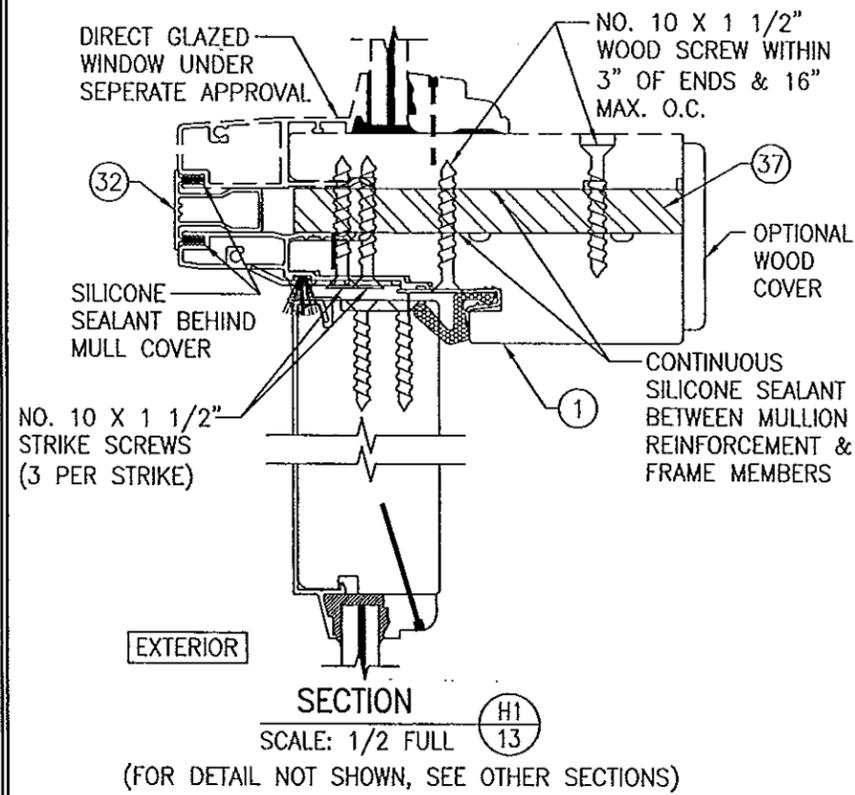


SECTION **G2**
SCALE: 1/2 FULL **12**
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

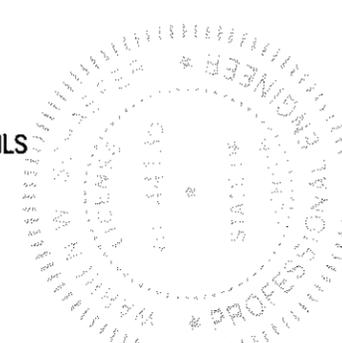
PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-0618.08
Expiration Date 3/10/20
By: [Signature]
Miami Dade Product Council



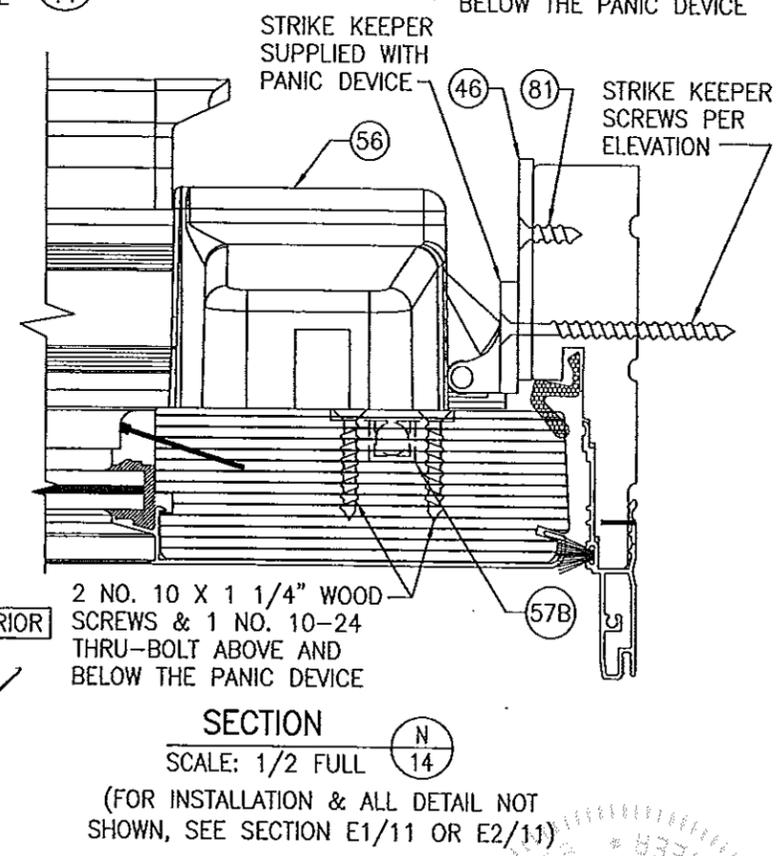
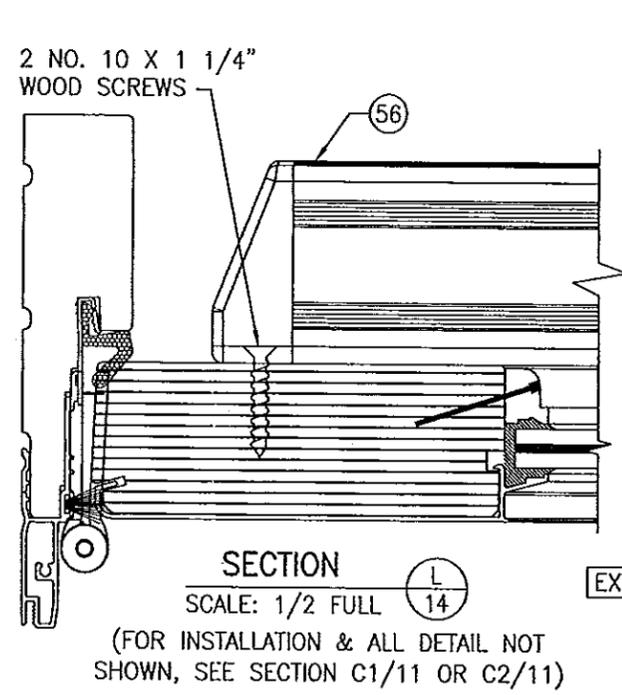
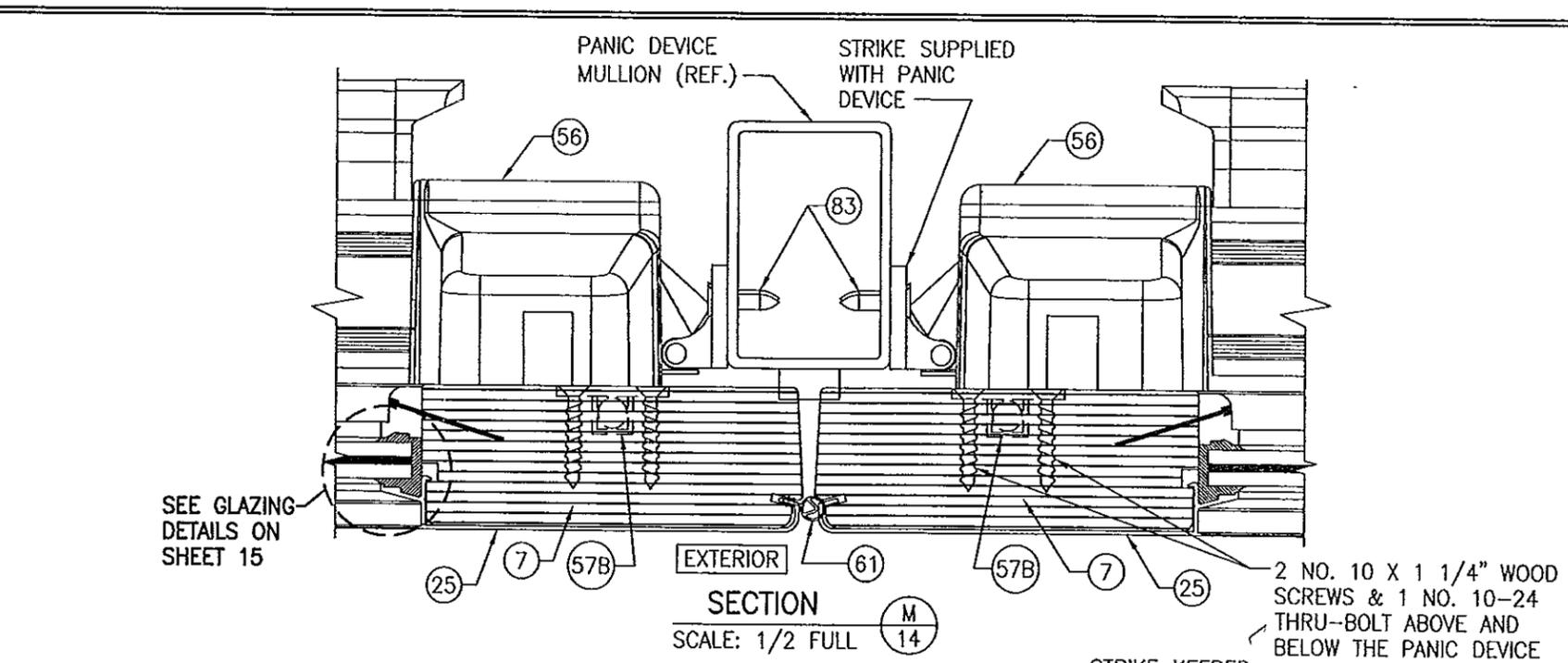
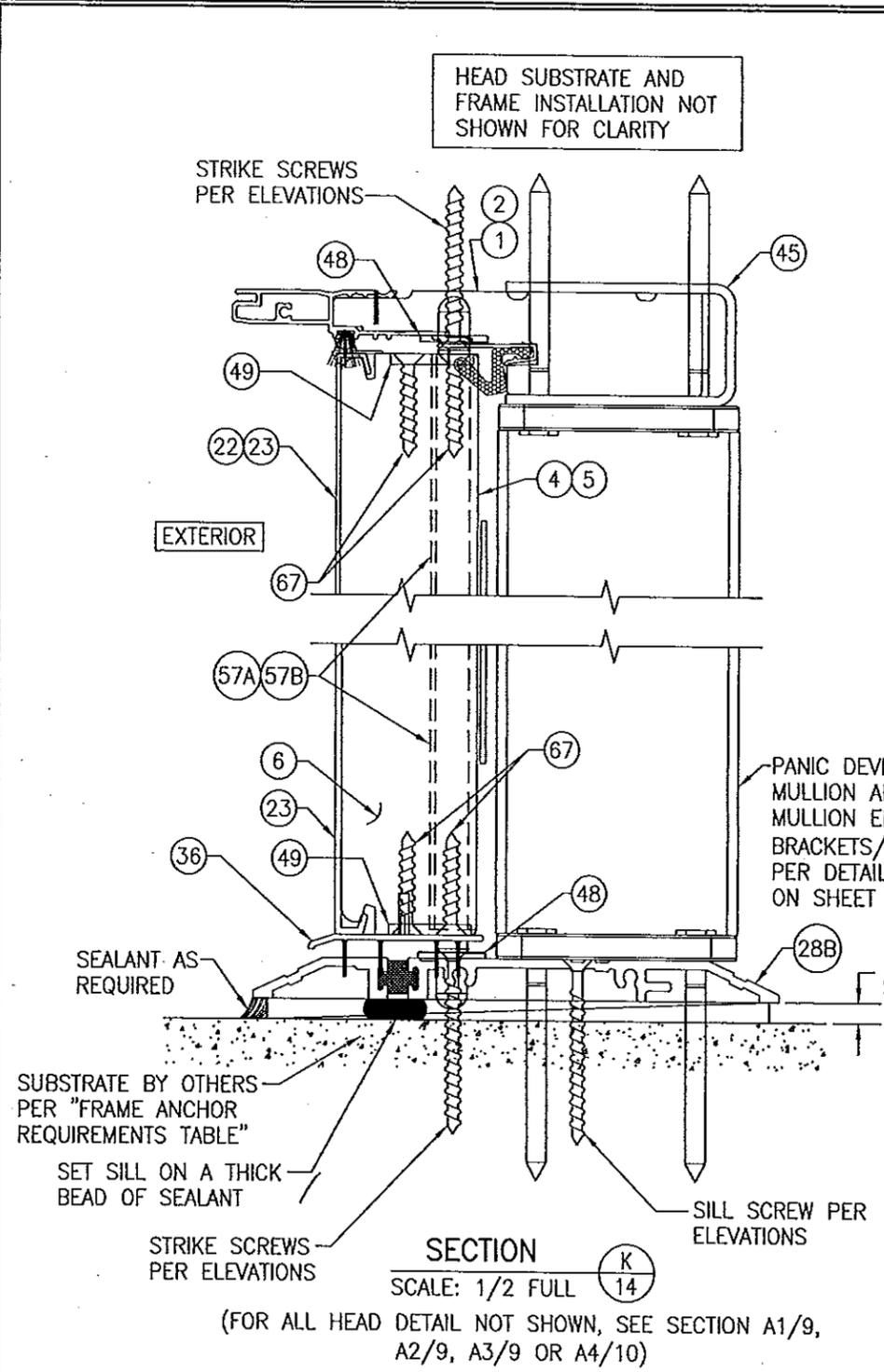
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/30/09
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555
CERTIFICATION DEC 11 2014	REV. C
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	SHEET NO. 12 OF 18



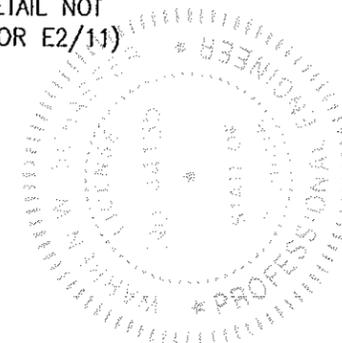
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0618-08
Expiration Date 3/1/12
By [Signature]
Product Control



DRAWING TITLE	DRAWN BY:	CHECKED BY:
	W.R.M.	W.S.
CONSULTANTS	PLOT:	DATE:
	1-2	04/30/09
DRAWING NO.	DATE	
REVISION DESCRIPTION	BY	
NO.	NO.	
1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555		
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		
CERTIFICATION	DEC 11 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.	
1568	C	
SHEET NO.		
13	OF 18	

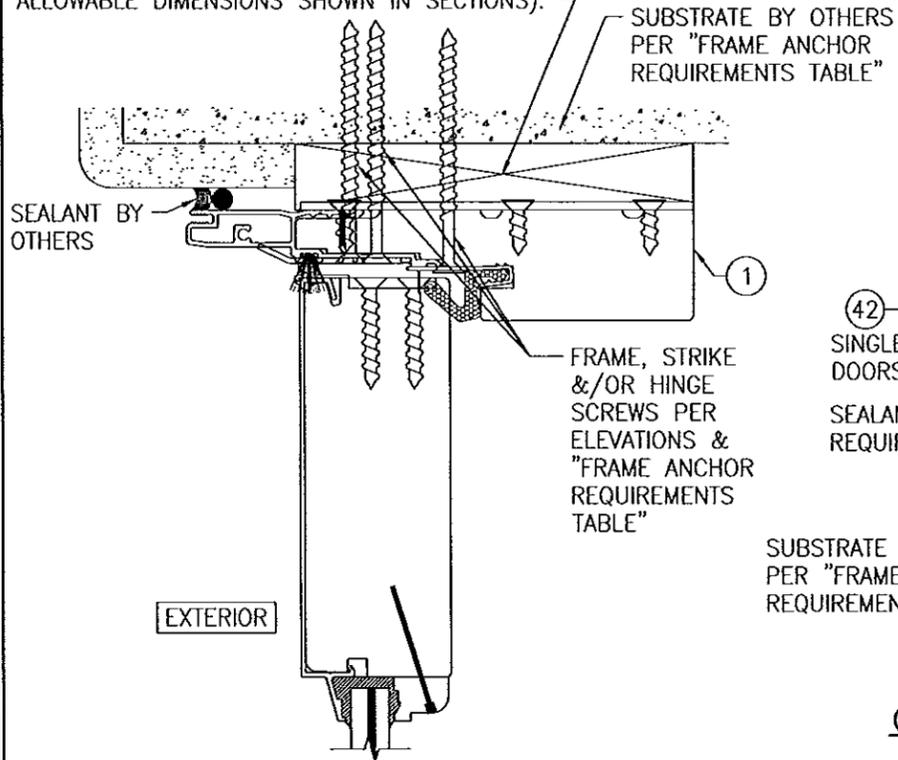


PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0618.05
 Expiration Date 3/10/20



DRAWN BY: W.R.M.	CHECKED BY: W.N.S.
PLOT: 1-2	DATE: 04/30/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424	
CERTIFICATION	DEC 11 2014
DRAWING NO. 1568	REV. C
SHEET NO. 14 OF 18	

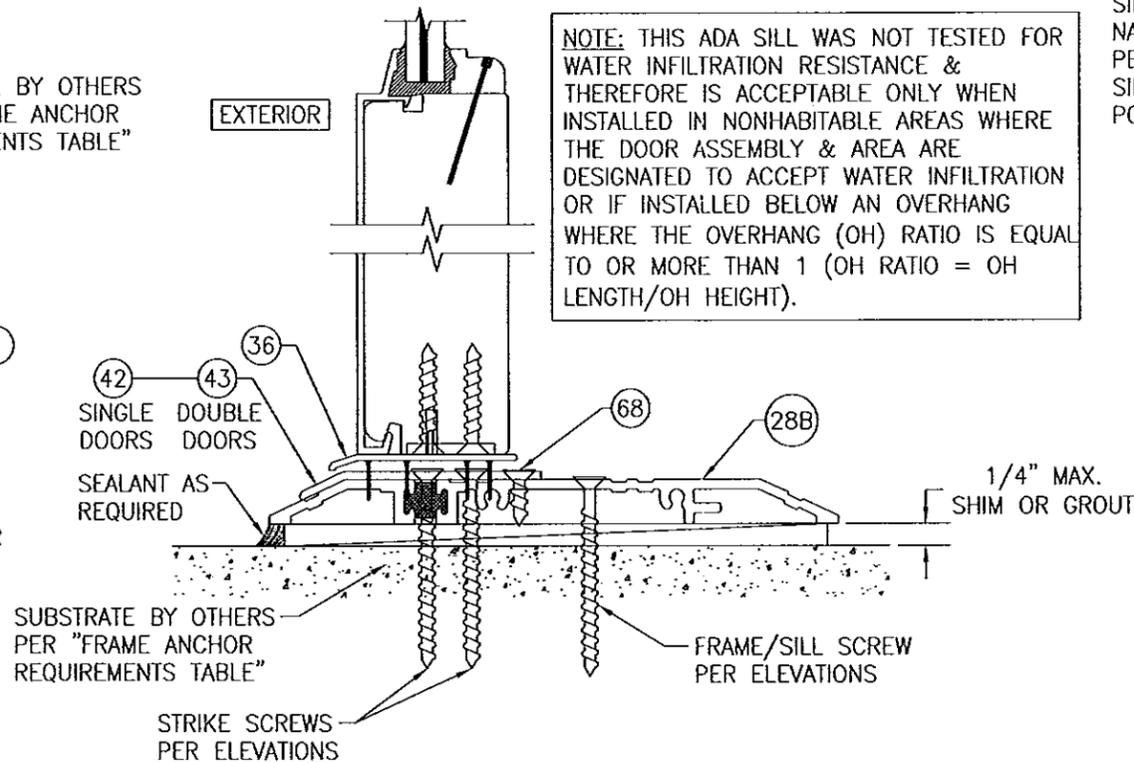
CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 4 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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

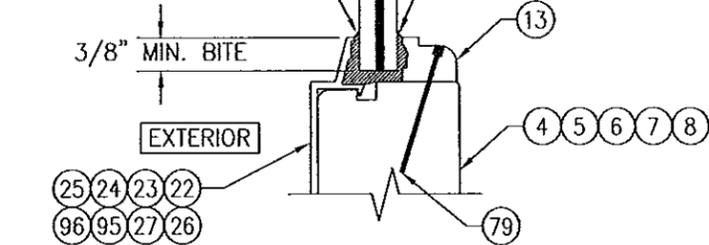
NOTE: THIS ADA SILL WAS NOT TESTED FOR WATER INFILTRATION RESISTANCE & THEREFORE IS ACCEPTABLE ONLY WHEN INSTALLED IN NONHABITABLE AREAS WHERE THE DOOR ASSEMBLY & AREA ARE DESIGNATED TO ACCEPT WATER INFILTRATION OR IF INSTALLED BELOW AN OVERHANG WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 (OH RATIO = OH LENGTH/OH HEIGHT).



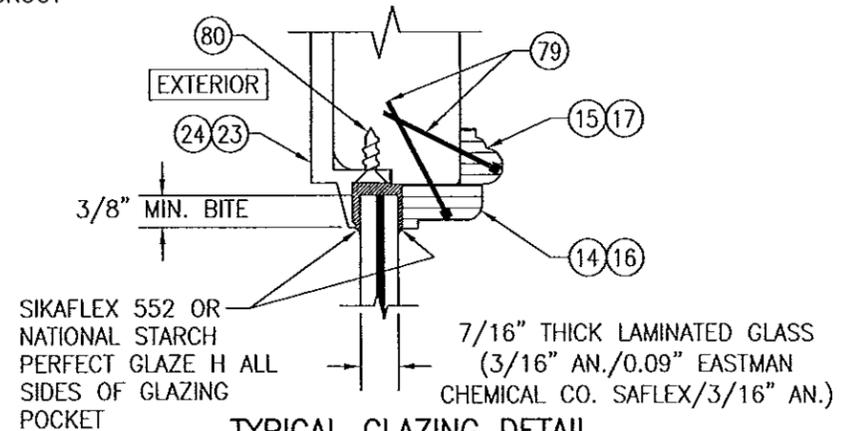
OPTIONAL ADA SILL DETAIL AT OPERABLE DOORS

(APPLICABLE WITH ALL DOOR CONDITIONS)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

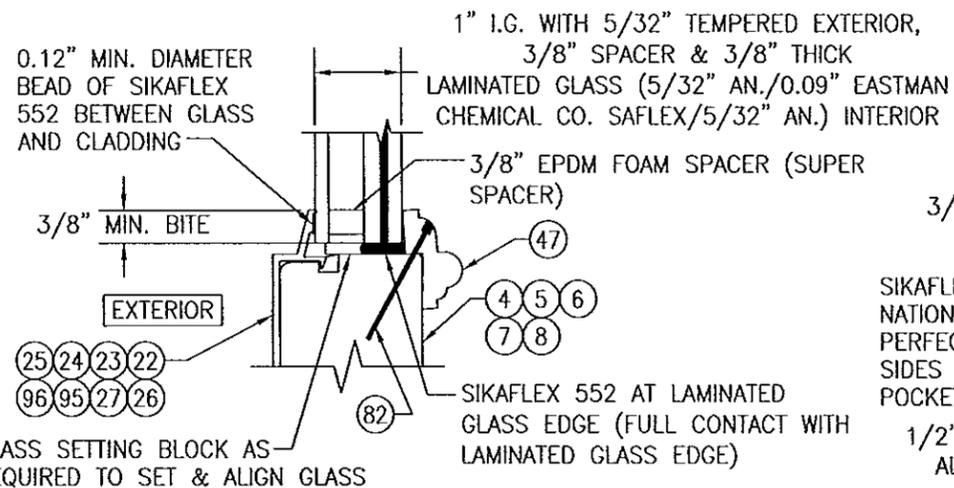
SIKAFLEX 552 OR NATIONAL STARCH PERFECT GLAZE H ALL SIDES OF GLAZING POCKET



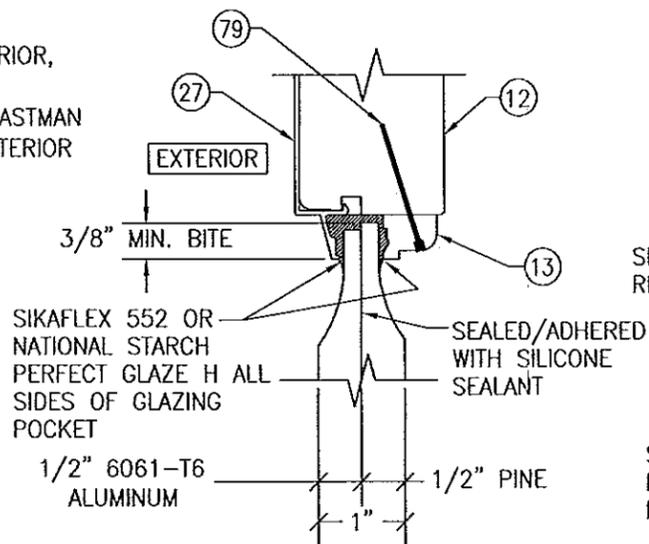
TYPICAL GLAZING DETAIL (RECTANGULAR & EYBROW CONDITIONS)



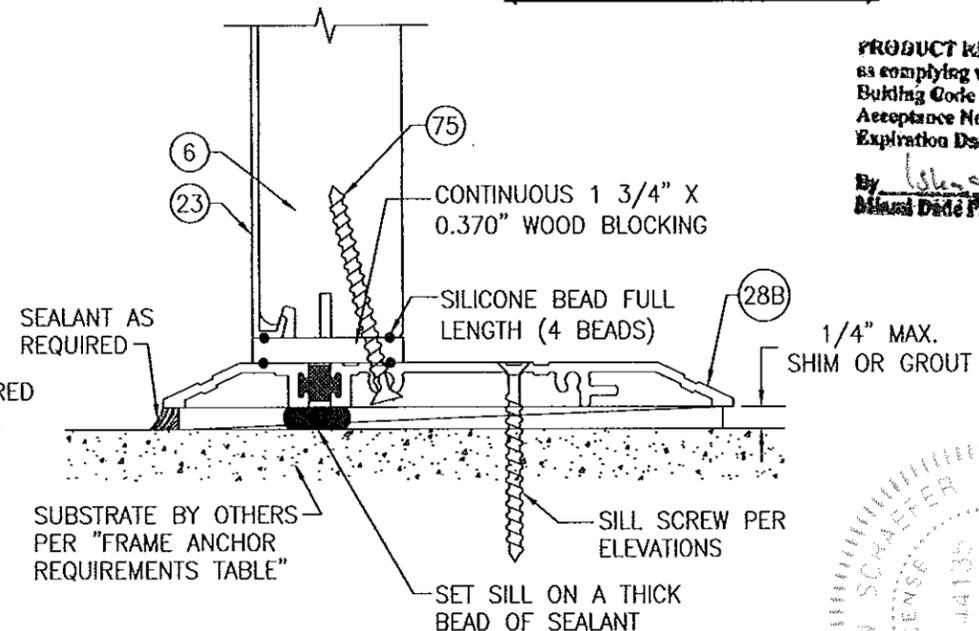
TYPICAL GLAZING DETAIL (ROUND TOP CONDITION)



TYPICAL I.G. GLAZING DETAIL (RECTANGULAR AND RADIUS SHAPES)

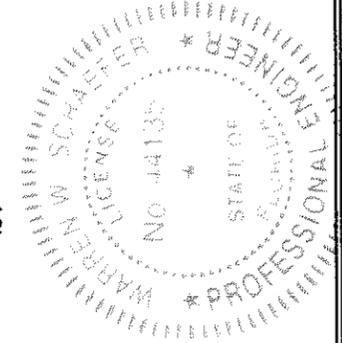


TYPICAL RAISED PANEL GLAZING DETAIL

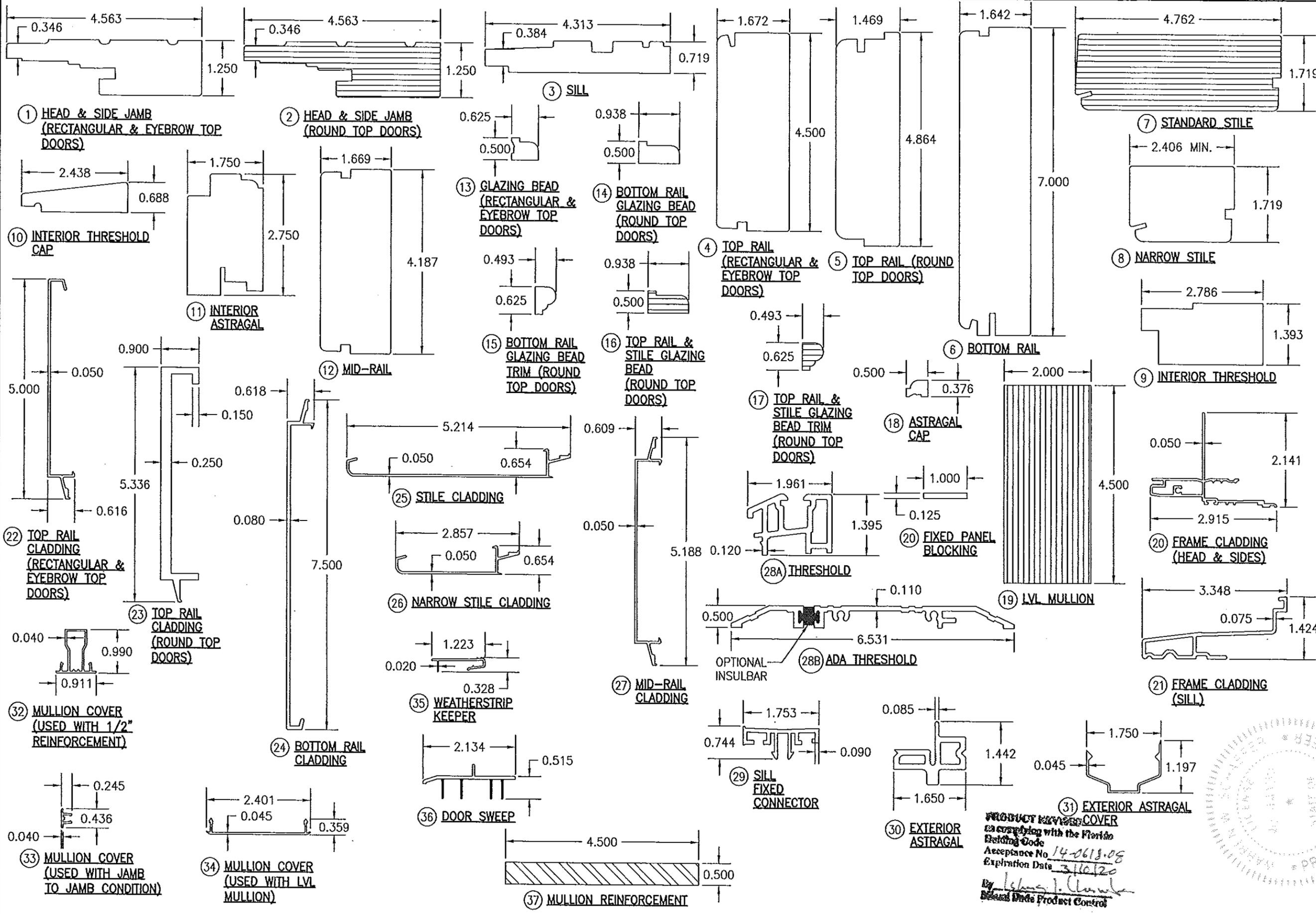


OPTIONAL ADA SILL DETAIL AT FIXED PANEL DOORS

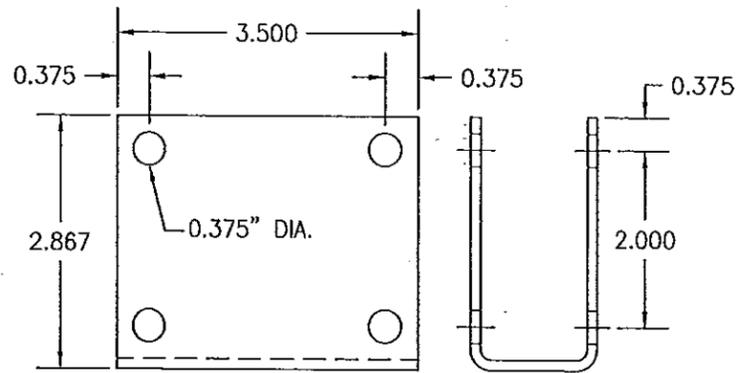
PRODUCT REVISION as complying with the Florida Building Code Acceptance No. 14-0612-08 Expiration Date 3/16/20 By [Signature] Manual Date Product Control



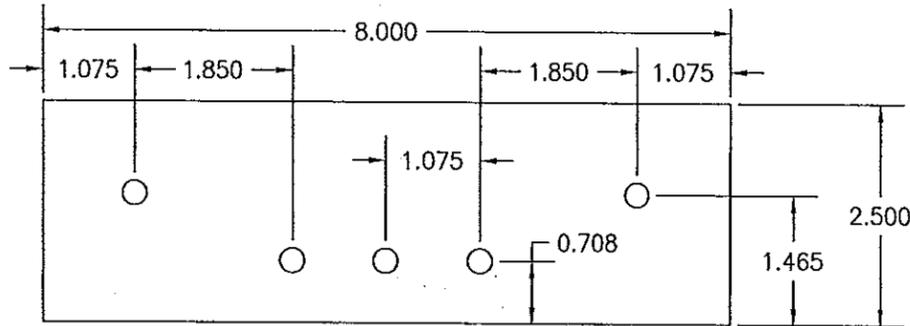
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 04/30/09
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-5424	
CERTIFICATION DEC 11 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1568	REV. C
SHEET NO. 15 OF 18	



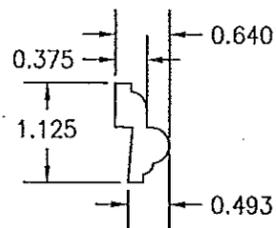
DRAWN BY: W.R.M. CHECKED BY: W.W.S. DATE: 04/30/09
PLOT: 1-2 REVISION NO. DATE DESCRIPTION
DRAWING TITLE: 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR
MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION: DEC 11 2014 PRODUCT REVIEW COVER in compliance with the Florida Building Code Acceptance No. 14-0618-08 Expiration Date 3/16/20 By: [Signature] Based Under Product Control
DRAWING NO. 1568 SHEET NO. 16 OF 18 REV. C



45 MULLION TOP BRACKET



46 STRIKE REINFORCEMENT PLATE



47 I.G. GLAZING BEAD

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD & SIDE JAMB (RECTANGULAR & EYEBROW TOP DOORS)	WOOD (FINGER JOINTED)
2	HEAD & SIDE JAM (ROUND TOP DOORS)	MICROLLAM LVL BY BOISE CASCADE WOOD PRODUCTS, LLC (E MIN.=1,900,000 PSI; Fb MIN.=2,600 PSI)
3	SILL	WOOD (FINGER JOINTED)
4	TOP RAIL RECTANGULAR & EYEBROW TOP DOORS	WOOD
5	TOP RAIL (ROUND TOP DOORS)	WOOD
6	BOTTOM RAIL	WOOD
7	STANDARD STILE	MICROLLAM LVL BY BOISE CASCADE WOOD PRODUCTS, LLC (E MIN.=1,900,000 PSI; Fb MIN.=2,600 PSI)
8	NARROW STILE	WOOD
9	INTERIOR THRESHOLD	WOOD
10	INTERIOR THRESHOLD CAP	WOOD
11	INTERIOR ASTRAGAL	WOOD
12	MID-RAIL	WOOD
13	GLAZING BEAD (RECTANGULAR & EYEBROW TOP DOORS)	WOOD
14	BOTTOM RAIL GLAZING BEAD (ROUND TOP DOORS)	WOOD
15	BOTTOM RAIL GLAZING BEAD TRIM (ROUND TOP DOORS)	WOOD
16	TOP RAIL & STILE GLAZING BEAD (ROUND TOP DOORS)	MICROLLAM LVL BY BOISE CASCADE WOOD PRODUCTS, LLC (E MIN.=1,900,000 PSI; Fb MIN.=2,600 PSI)
17	TOP RAIL & STILE GLAZING BEAD TRIM (ROUND TOP DOORS)	MICROLLAM LVL BY BOISE CASCADE WOOD PRODUCTS, LLC (E MIN.=1,900,000 PSI; Fb MIN.=2,600 PSI)
18	ASTRAGAL CAP	WOOD
19	LVL MULLION	MICROLLAM LVL BY BOISE CASCADE WOOD PRODUCTS, LLC (E MIN.=1,900,000 PSI; Fb MIN.=2,600 PSI)
20	FRAME CLADDING (HEAD & SIDES)	6063-T5 ALUMINUM
21	FRAME CLADDING (SILL)	6063-T5 ALUMINUM
22	TOP RAIL CLADDING (RECTANGULAR & EYEBROW TOP DOORS)	6063-T5 ALUMINUM
23	TOP RAIL CLADDING (ROUND TOP DOORS)	6063-T5 ALUMINUM
24	BOTTOM RAIL CLADDING	6063-T5 ALUMINUM
25	STILE CLADDING	6063-T5 ALUMINUM
26	NARROW STILE CLADDING	6063-T5 ALUMINUM
27	MID-RAIL CLADDING	6063-T5 ALUMINUM
28A	THRESHOLD	6063-T5 ALUMINUM
28B	ADA THRESHOLD	6063-T5 ALUMINUM
29	SILL FIXED CONNECTOR	VINYL
30	EXTERIOR ASTRAGAL	6063-T5 ALUMINUM
31	EXTERIOR ASTRAGAL COVER	6063-T5 ALUMINUM
32	MULLION COVER (USED WITH 1/2" REINFORCEMENT)	6063-T5 ALUMINUM
33	MULLION COVER (USED WITH JAMB TO JAMB CONDITION)	6063-T5 ALUMINUM
34	MULLION COVER (USED WITH LVL MULLION)	6063-T5 ALUMINUM
35	WEATHERSTRIP KEEPER	VINYL
36	DOOR SWEEP	VINYL
37	MULLION REINFORCEMENT	6061-T6 ALUMINUM

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By: [Signature]
[Stamp]

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PLOT: 1=2	DATE: 04/30/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 1604 ALUMINUM CLAD OUT-SWING IMPACT DOOR	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION DEC 11 2014 WARREN W. SCHAEFER P.E. P.E. NO. 44135	
DRAWING NO. 1568	REV. C
SHEET NO. 17 OF 18	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS (CONT'D)		
38	PANEL CORNER REINFORCEMENT BAR (10.112" X 1.000" X .120")	304 S.S. (1 PER PANEL CORNER WITH MULTI-POINT LOCK USE)
39	HEAD JAMB BACKER PLATE (10.125" X 4.50" X .080")	304 S.S. (USED WITH MULTI-POINT HARDWARE)
40	HEAD STRIKE PLATE (SINGLE DOORS) (2.500" X 1.747" X .090")	304 S.S. (USED WITH MULTI-POINT HARDWARE)
41	HEAD STRIKE PLATE (DOUBLE DOORS) (5.634" X 1.762" X .060")	304 S.S. (USED WITH MULTI-POINT HARDWARE)
42	SILL STRIKE PLATE (SINGLE DOORS) (2.812" X .800" X .120")	304 S.S. (USED WITH MULTI-POINT HARDWARE)
43	SILL STRIKE PLATE (DOUBLE DOORS) (4.000" X 2.817" X .090")	304 S.S. (USED WITH MULTI-POINT HARDWARE)
44	JAMB STRIKE PLATE (SINGLE DOORS) (9.331" X 1.692" X .090")	304 S.S. (USED WITH MULTI-POINT HARDWARE)
45	PANIC DEVICE MULLION TOP BRACKET	304 S.S. OR 6063-T5 ALUMINUM
46	PANIC DEVICE SIDE STRIKE REINFORCEMENT	304 S.S.
47	I.G. GLAZING BEAD	WOOD (LVL WHEN WITH RADIUS)
48	FLUSH BOLT HEAD/SILL STRIKE PLATE	304 S.S. (0.82" X 2.395" X 0.076" THK.)
49	PANEL CORNER REINFORCEMENT BAR (10.112" X 1.000" X .120")	304 S.S. (1 PER CORNER WITH FLUSH BOLT USE)
HARDWARE		
50	4" X 4" ADJUSTABLE HINGE (STEEL OR S.S.)	SIMONSWERKS; 3D MILLENNIUM
51	4" X 4" BUTT HINGE (STEEL OR S.S.)	HAGER 1191
52	3-POINT MULTI-POINT LOCK (ACTIVE PANEL)	ASHLAND; #XP45
53	2-POINT MULTI-POINT LOCK (INACTIVE PANEL)	ASHLAND; #XP45
54	HANDLE (WITH MULTI-POINT LOCK)	AS REQ'D TO OPERATE LOCK
55	PANIC DOOR PULL HANDLE	AS REQUIRED
56	RIM EXIT/PANIC DEVICE	VON DUPRIN 99/98 SERIES
57A	24" TOP FLUSH BOLT	BY WEATHER SHIELD
57B	8" TOP FLUSH BOLT	BY WEATHER SHIELD
SEALS & SEALANTS		
58	BULB WEATHERSTIP	WEATHER SHIELD; VINYL
59	PILE WEATHERSTRIP	ULTRAFAB
60	KERF WEATHERSTRIP	SCHLEGAL QED650
61	BULB WEATHERSTIP	WEATHER SHIELD; VINYL
FASTENERS		
65	18 GA. X 1/2" X 1/2" STAPLE	WITHIN 2" FROM ENDS & 7-9" O.C.
66	NO. 8 X 5/8" SMS OR WOOD SCREW	9 PER HEAD JAMB BACKER PLATE
67	NO. 8 X 1 1/4" WOOD SCREW	4 PER CORNER REINFORCEMENT PLATE
68	NO. 8 X 5/8" SMS OR WOOD SCREW	2 PER STRIKE
69	18 GA. X 1/2" X 1" STAPLE (2 ROWS)	WITHIN 1" FROM ENDS & 2" O.C.
70	NO. 8 X 1 3/4" WOOD SCREW	WITHIN 6" FROM ENDS & 8" O.C.
71	NO. 8 X 1 1/4" WOOD SCREW	4 PER ADJUSTABLE HINGE INTO STILE
72	NO. 8 X 5/8" SMS OR WOOD SCREW	2 PER ADJUSTABLE HINGE INTO JAMB
73	NO. 14 X 1 1/4" WOOD SCREW	4 PER BUTT HINGE INTO STILE
74	NO. 14 X 1 1/4" WOOD SCREW CUT DOWN TO 3/4" LONG AFTER INSTALL	2 PER BUTT HINGE INTO JAMB
75	NO. 8 X 2 1/2" WOOD SCREW	WITHIN 6" FROM ENDS & 10" O.C.
77	NO. 8 X 1 3/4" P.H. WOOD SCREW	WITHIN 4" FROM ENDS & 8" O.C.
78	NO. 8 X 3" WOOD SCREW	WITHIN 2" FROM ENDS & 6" O.C.
79	F16 X 1 1/2" BRAD NAIL	WITHIN 2" FROM CORNERS & 8"-10" O.C.
80	NO. 8 X 5/8" SMS OR WOOD SCREW	WITHIN 2" FROM ENDS & 4-8" O.C.
81	NO. 10 X 3/4" SMS SCREW	2 PER REINFORCEMENT PLATE
82	18 GA. X 1 1/2" T-NAIL	WITHIN 2" OF CORNERS AND 8"-10" O.C.

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
FASTENERS (CONT'D)		
83	NO. 10-20 X 3/4" FH SCREWS	3 PER KEEPER

LOCK TYPE	POSITION	MIN. ENGAGEMENT
3-POINT LOCK	TOP	0.90"
	BOTTOM	0.67"
	DEAD BOLT	0.86"
2-POINT LOCK	TOP	0.90"
	BOTTOM	0.67"
SHOOT BOLTS	TOP	0.57"
	BOTTOM	0.69"
PANIC DEVICE	SIDE	0.60"

NOTE: WOOD USED IN TESTING WAS PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY WEATHER SHIELD TO SELECT.

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 14-0618-08
 Expiration Date 2/28/20, 2020
 By: *Shane L. Chappell*
 Manual Date Product Control

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PLOT: 1-2	DATE: 04/30/09
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CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION DEC 11 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1568	REV. C
SHEET NO. 18 OF 18	