

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.
- 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

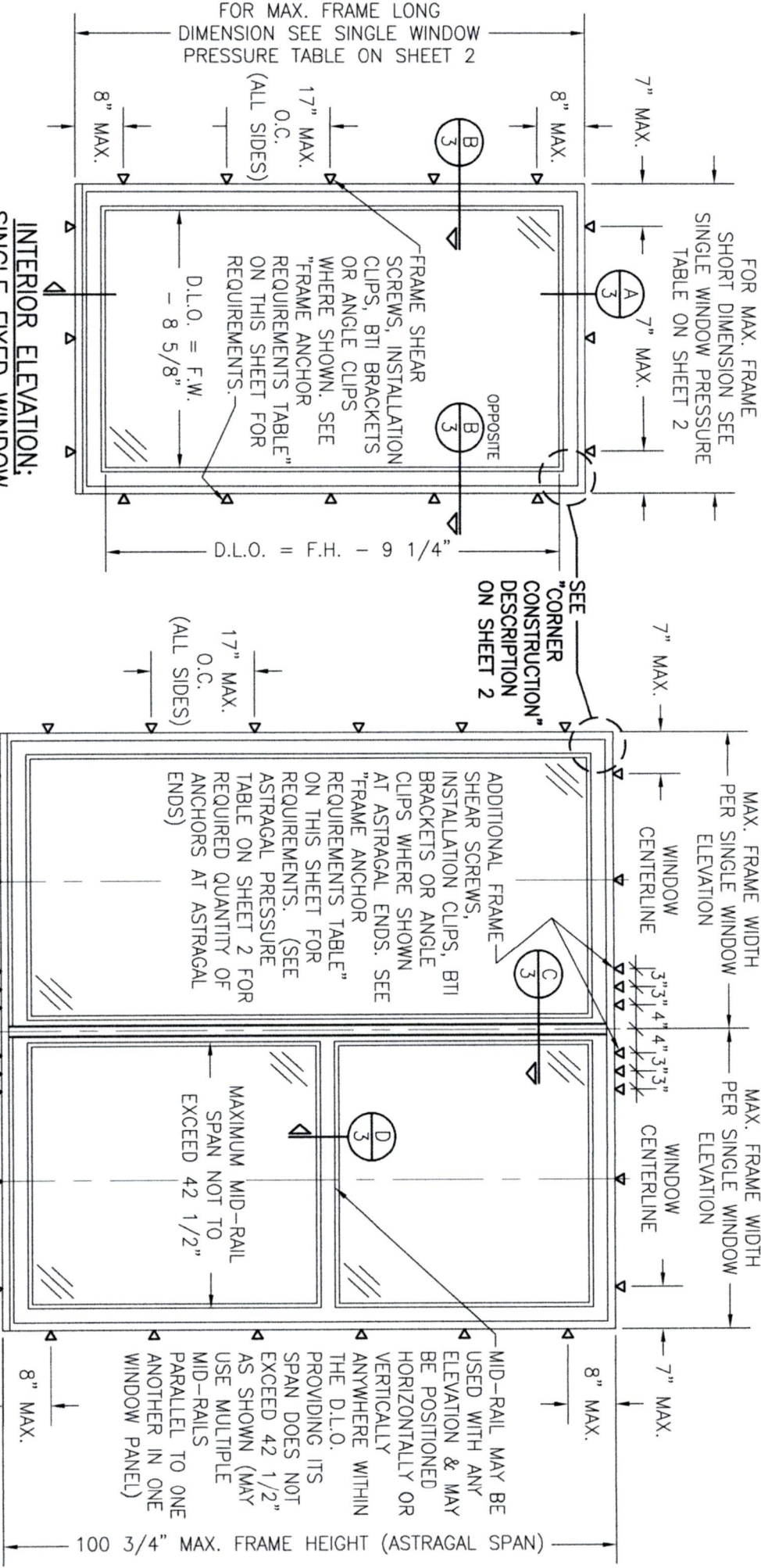
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/BACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" 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"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

INSTALLATION CLIP SCREWS

MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

BTI BRACKET & ANGLE CLIP SCREWS

MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 1/8"	3/4"
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.) OR HILTI KWIK-CON II (C.S. OR S.S.).			



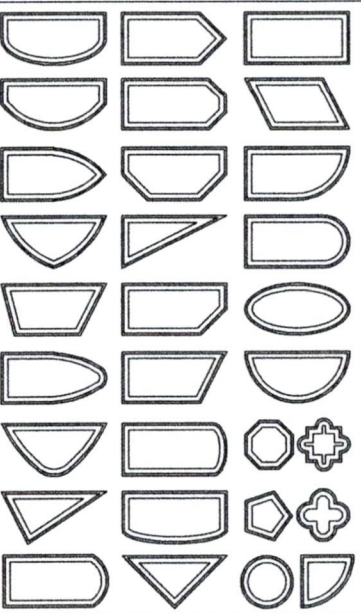
INTERIOR ELEVATION:
SINGLE FIXED WINDOW

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

LONG DIMENSION OF WINDOW MAY BE HORIZONTAL OR VERTICAL (HEIGHT & WIDTH MAY BE INTERCHANGED).

RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.
3. THE SHAPES SHOWN APPLY TO SINGLE WINDOWS AND THE WINDOWS ON EITHER SIDE OF A FIXED ASTRAGAL.

FOR MAX. LOAD WIDTH, SEE ASTRAGAL PRESSURE TABLE ON SHEET 2

INTERIOR ELEVATION:
DOUBLE FIXED WINDOW WITH FIXED ASTRAGAL

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

SEE SINGLE WINDOW ELEVATION FOR WINDOW DETAIL NOT SHOWN

ALLOWABLE DESIGN PRESSURE
(ALL CONDITIONS)

SEE LOAD TABLES ON SHEET 2



Digitally signed
by Warren W
Schaefer
Date:
2023.02.27
16:21:35 -05'00'

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS	W.R.M.	10/25/11
B1	UPDATE GLASS DESCRIPTION	W.R.M.	09/04/13
C1	UPDATE TO CURRENT STANDARDS	W.W.S.	05/15/18
D1	CHANGE TO FLORIDA APPROVAL	W.W.S.	02/27/23

DRAWING TITLE
IN-SWING IMPACT WOOD FIXED CASEMENT WINDOW

CONSULTANTS
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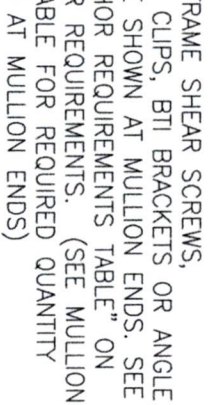
CERTIFICATION

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

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 OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWING NO.	REV.
1534	D
SHEET NO.	1 OF 7

MULLION ALLOWABLE DESIGN PRESSURE									
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)							
		NON-REINFORCED		REINFORCED					
		4 OR 6 END ANCHORS		4 END ANCHORS		6 END ANCHORS			
		POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.
	72	N/A	N/A	41.8	41.8	44.3	44.3		
	67	N/A	N/A	43.3	43.3	46.3	46.3		
	61	N/A	N/A	45.5	45.5	49.3	49.3		
	55	N/A	N/A	48.4	48.4	53.5	53.5		
	49	N/A	N/A	52.2	52.2	58.9	58.9		
	43	N/A	N/A	57.3	57.3	65.8	65.8		
	37	N/A	N/A	64.2	64.2	70.0	74.3		
101	31	N/A	N/A	70.0	73.9	70.0	85.0		
	25	N/A	N/A	70.0	85.0	70.0	85.0		
	72	N/A	N/A	45.3	45.3	50.1	50.1		
	67	N/A	N/A	46.8	46.8	52.3	52.3		
	61	N/A	N/A	49.0	49.0	55.5	55.5		
	55	N/A	N/A	52.0	52.0	59.9	59.9		
	49	N/A	N/A	55.9	55.9	64.7	64.7		
96	43	N/A	N/A	61.1	61.1	70.0	70.8		
	37	N/A	N/A	68.3	68.3	70.0	79.1		
	31	N/A	N/A	70.0	78.5	70.0	85.0		
	25	N/A	N/A	70.0	85.0	70.0	85.0		
	72	N/A	N/A	56.7	56.7	65.6	65.6		
	67	N/A	N/A	57.9	57.9	67.0	67.0		
	61	N/A	N/A	60.0	60.0	69.5	69.5		
84	55	N/A	N/A	63.0	63.0	73.0	73.0		
	49	N/A	N/A	67.2	67.2	70.0	77.8		
	43	N/A	N/A	70.0	72.9	70.0	84.4		
	37	N/A	N/A	70.0	80.8	70.0	85.0		
	31	N/A	N/A	70.0	85.0	70.0	85.0		
	72	N/A	N/A	66.3	66.3	70.0	76.8		
	67	N/A	N/A	67.2	67.2	70.0	77.8		
77	61	N/A	N/A	69.0	69.0	70.0	80.0		
	55	N/A	N/A	70.0	71.9	70.0	83.3		
	49	N/A	N/A	70.0	78.1	70.0	85.0		
	43	N/A	N/A	70.0	79.1	70.0	85.0		
	42	N/A	N/A	70.0	79.1	70.0	85.0		

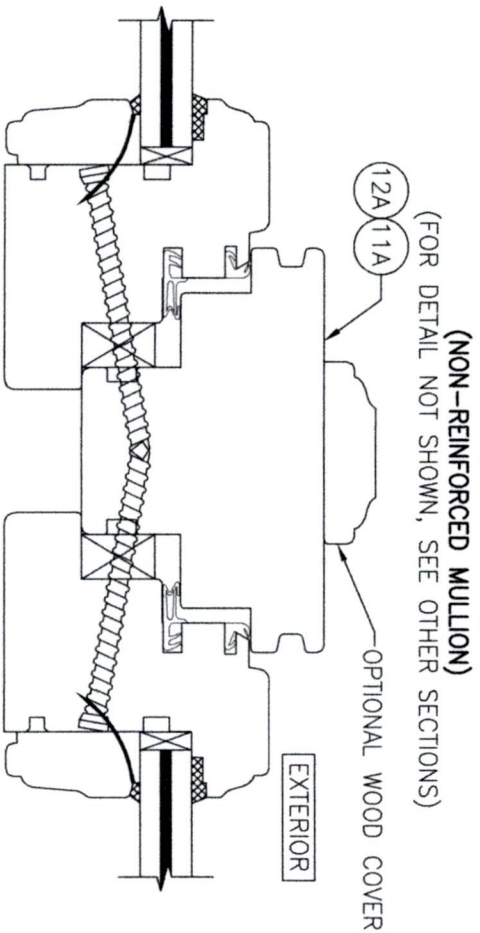
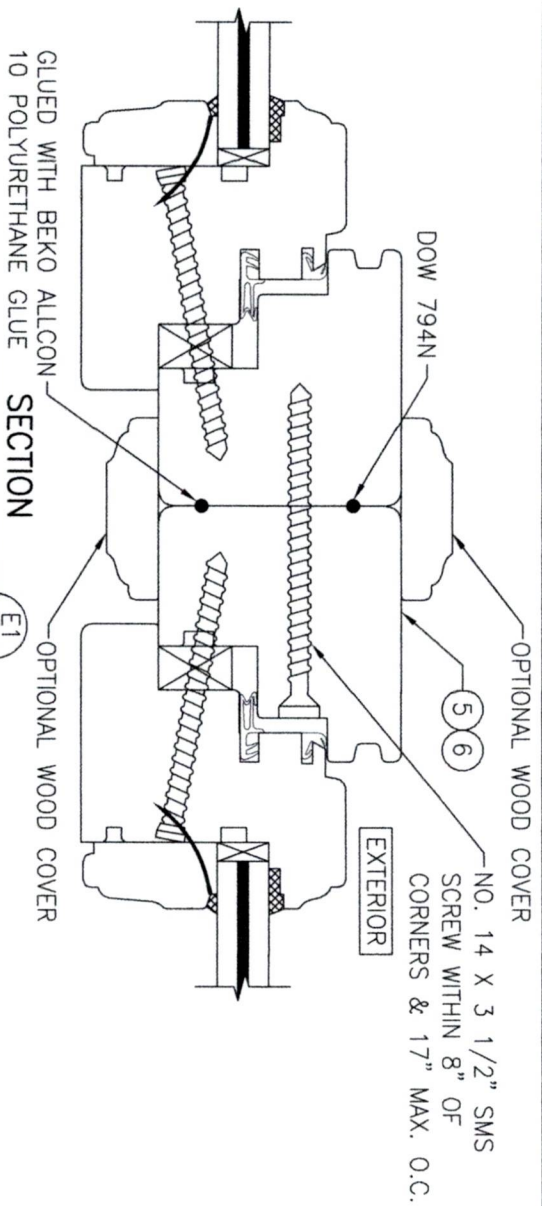


MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.
2. MULLION MAY BE HORIZONTAL OR VERTICAL PROVIDING UNIT SIZES ARE RESTRICTED AS SHOWN IN THIS ELEVATION.
3. IF VERTICALLY STACKED, THE MANUFACTURER SHALL INSURE THAT THE DEAD LOAD WEIGHT OF THE WINDOWS CAN NOT CAUSE UNDO FAILURE.
4. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION 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.

RECTANGULAR FRAME CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAŁ SUPER 3 WOOD GLUE OR EQUIVALENT.
 ARCHED FRAME CORNERS: ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAŁ SUPER 3 WOOD GLUE OR EQUIVALENT.
 HALF ROUND FRAME CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAŁ SUPER 3 WOOD GLUE OR EQUIVALENT.
 RECTANGULAR SASH CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAŁ SUPER 3 WOOD GLUE OR EQUIVALENT.
 ARCHED SASH CORNERS: ARCHED SASH BUTTED TO STRAIGHT SASH, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAŁ SUPER 3 WOOD GLUE OR EQUIVALENT.
 HALF ROUND SASH CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAŁ SUPER 3 WOOD GLUE OR EQUIVALENT.

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)					
		NON-REINFORCED		REINFORCED			
		4 OR 6 END ANCHORS	4 END ANCHORS	6 END ANCHORS	6 END ANCHORS	6 END ANCHORS	6 END ANCHORS
101	72	N/A	N/A	41.8	41.8	44.3	44.3
	67	N/A	N/A	43.3	43.3	46.3	46.3
	61	N/A	N/A	45.5	45.5	49.3	49.3
	55	N/A	N/A	48.4	48.4	53.5	53.5
	49	N/A	N/A	52.2	52.2	58.9	58.9
96	43	N/A	N/A	57.3	57.3	65.8	65.8
	37	N/A	N/A	64.2	64.2	70.0	74.3
	31	N/A	N/A	70.0	73.9	70.0	85.0
	25	N/A	N/A	70.0	85.0	70.0	85.0
	72	N/A	N/A	56.7	56.7	65.6	65.6
84	67	N/A	N/A	57.9	57.9	67.0	67.0
	61	N/A	N/A	60.0	60.0	69.5	69.5
	55	N/A	N/A	63.0	63.0	73.0	73.0
	49	N/A	N/A	67.2	67.2	70.0	77.8
	43	N/A	N/A	70.0	72.9	70.0	84.4
77	37	N/A	N/A	70.0	80.8	70.0	85.0
	31	N/A	N/A	70.0	85.0	70.0	85.0
	72	N/A	N/A	66.3	66.3	70.0	76.8
	67	N/A	N/A	67.2	67.2	70.0	77.8
	61	N/A	N/A	69.0	69.0	70.0	80.0
72 3/4	55	N/A	N/A	70.0	71.9	70.0	83.3
	49	N/A	N/A	70.0	76.1	70.0	85.0
	43	N/A	N/A	70.0	82.1	70.0	85.0
	37	N/A	N/A	70.0	85.0	70.0	85.0
	72	N/A	N/A	70.0	74.0	70.0	85.0
67	67	49.1	49.1	70.0	74.5	70.0	85.0
	61	50.5	50.5	70.0	76.0	70.0	85.0
	55	52.9	52.9	70.0	78.7	70.0	85.0
	49	54.7	54.7	70.0	82.8	70.0	85.0
	43	56.7	56.7	70.0	85.0	70.0	85.0
61	37	62.0	62.0	70.0	85.0	70.0	85.0
	31	70.0	70.0	70.0	85.0	70.0	85.0
	25	70.0	80.7	70.0	85.0	70.0	85.0
	67 OR GREATER	62.1	62.1	70.0	85.0	70.0	85.0
	61	63.1	63.1	70.0	85.0	70.0	85.0
55	55	65.1	65.1	70.0	85.0	70.0	85.0
	52	66.9	66.9	70.0	85.0	70.0	85.0
	49	69.0	69.0	70.0	85.0	70.0	85.0
	43	70.0	74.9	70.0	85.0	70.0	85.0
	37	70.0	83.7	70.0	85.0	70.0	85.0
55 OR GREATER	31	70.0	85.0	70.0	85.0	70.0	85.0
	61 OR GREATER	70.0	82.3	70.0	85.0	70.0	85.0
55	55	70.0	83.8	70.0	85.0	70.0	85.0
	52	70.0	85.0	70.0	85.0	70.0	85.0

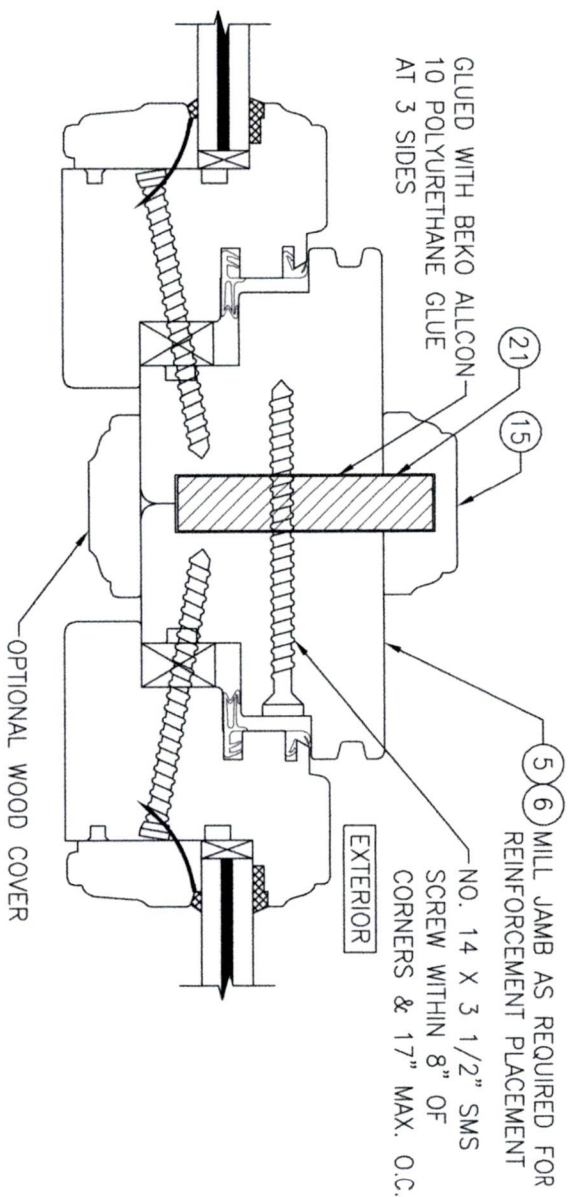
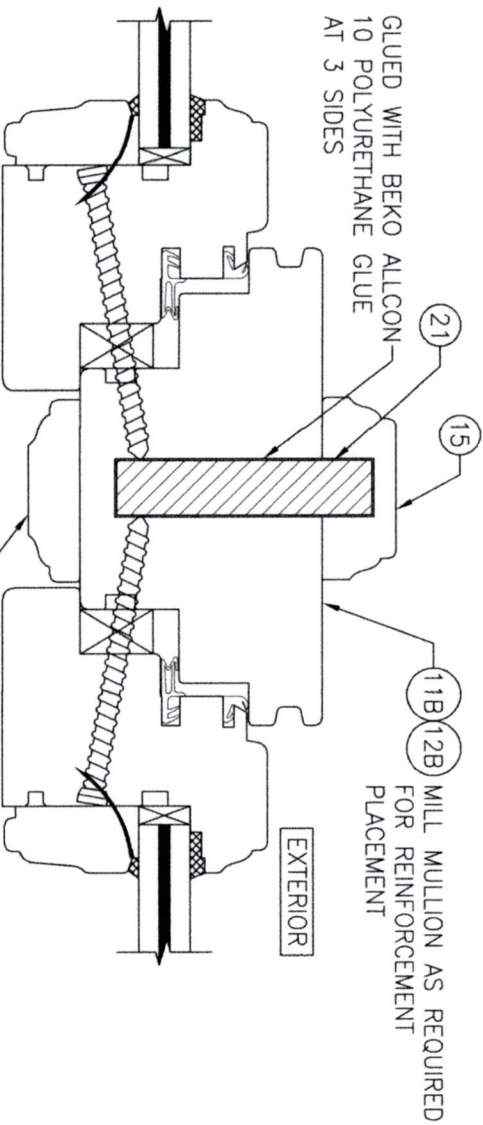


SECTION E3

SCALE: 1/2 FULL

(NON-REINFORCED MULLION)

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

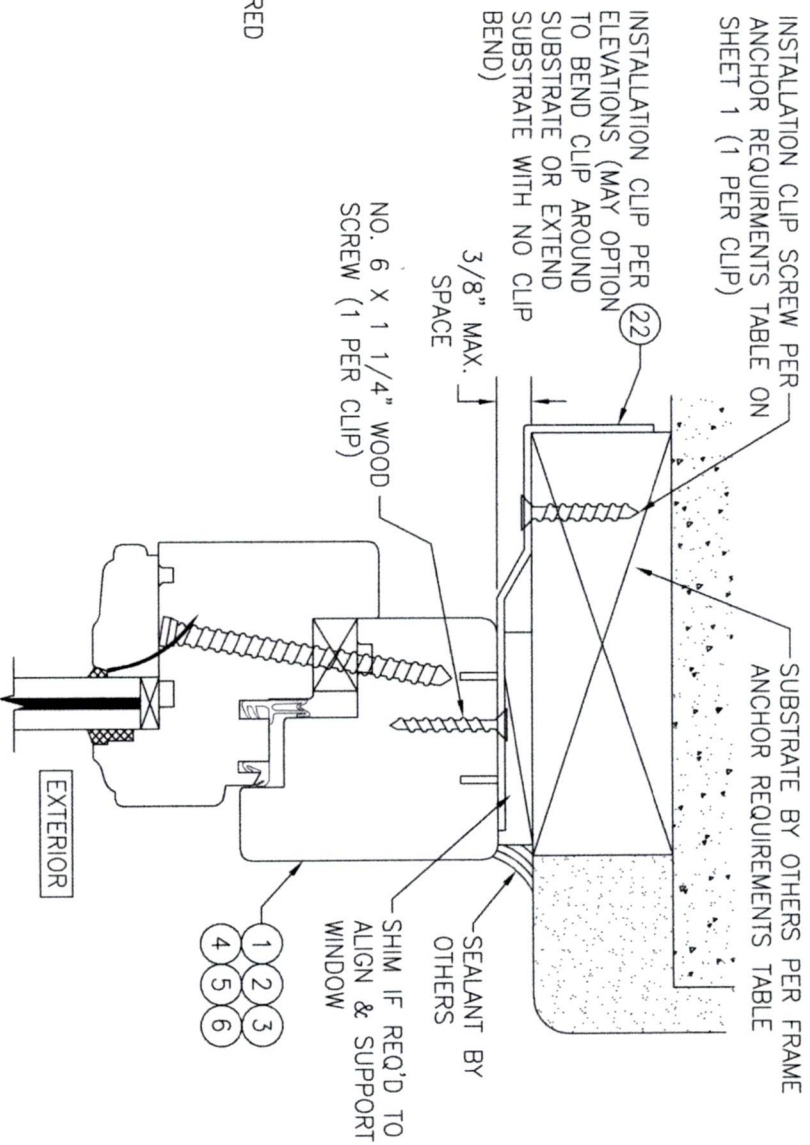


SECTION E6

SCALE: 1/2 FULL

(REINFORCED MULLION)

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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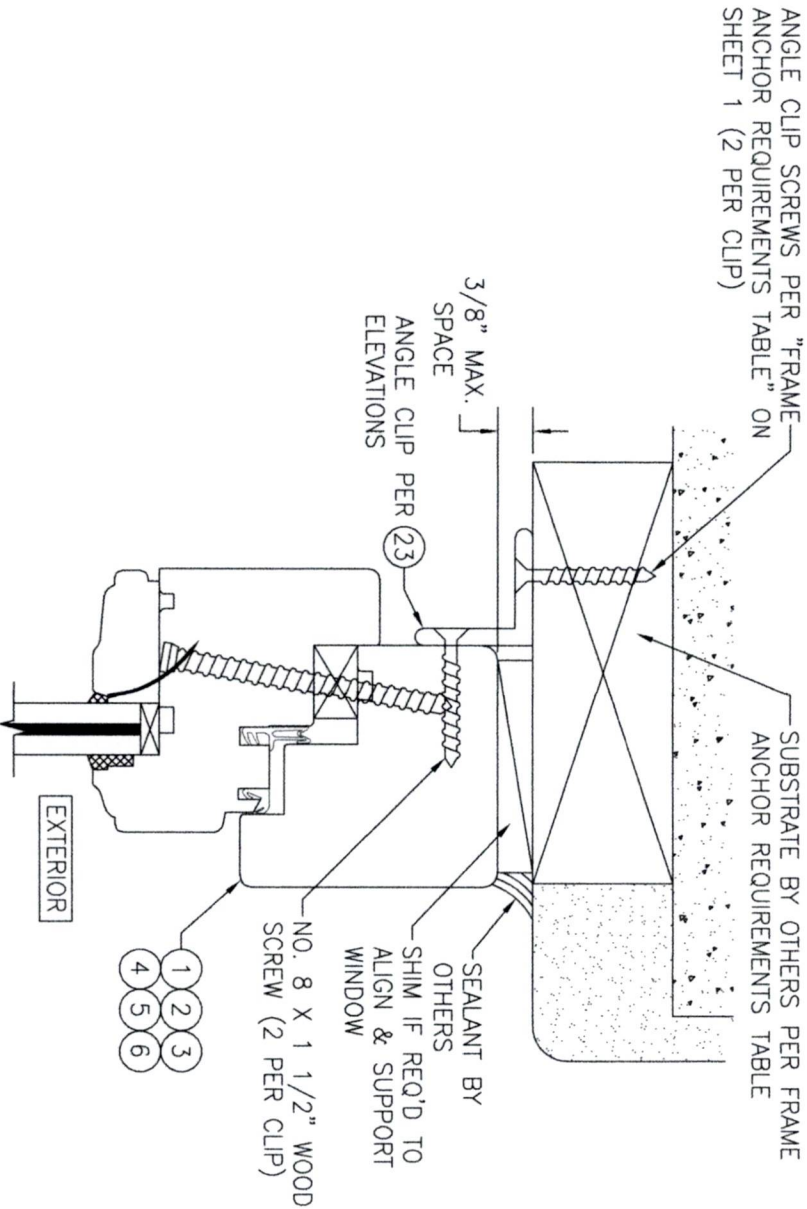
IN-SWING IMPACT WOOD FIXED CASEMENT WINDOW

CONSULTANTS
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 PHONE: 561-744-3424

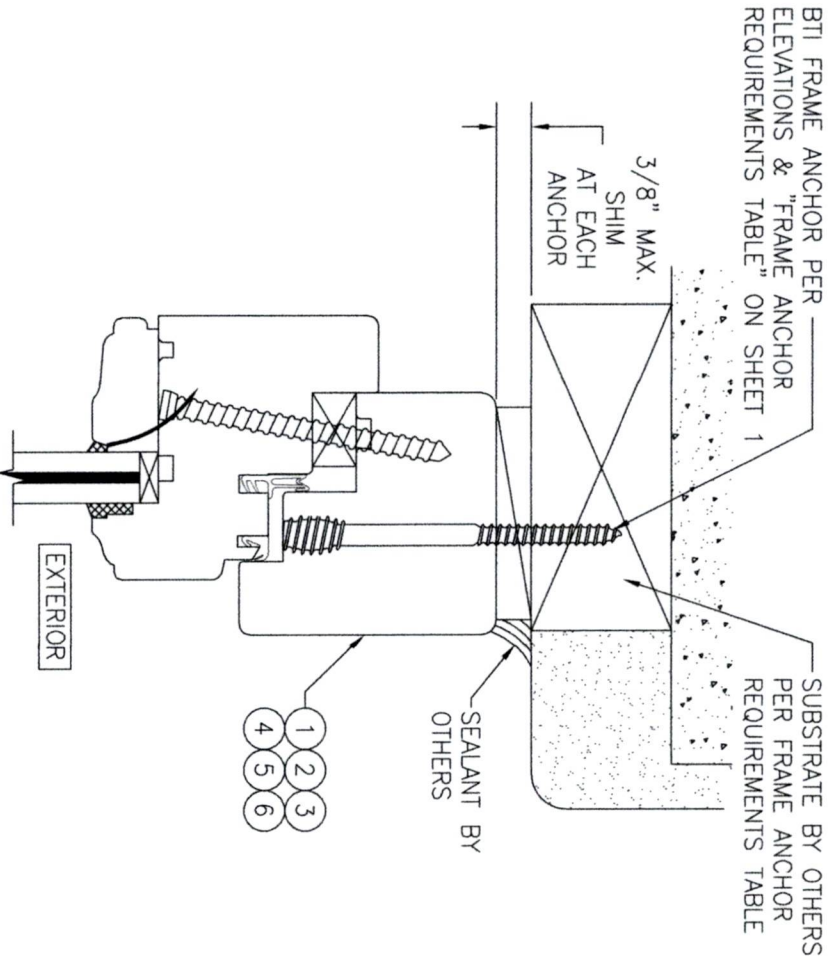
MANUFACTURER
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 SIX SUBURBAN AVENUE
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 203-674-0600

CERTIFICATION
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

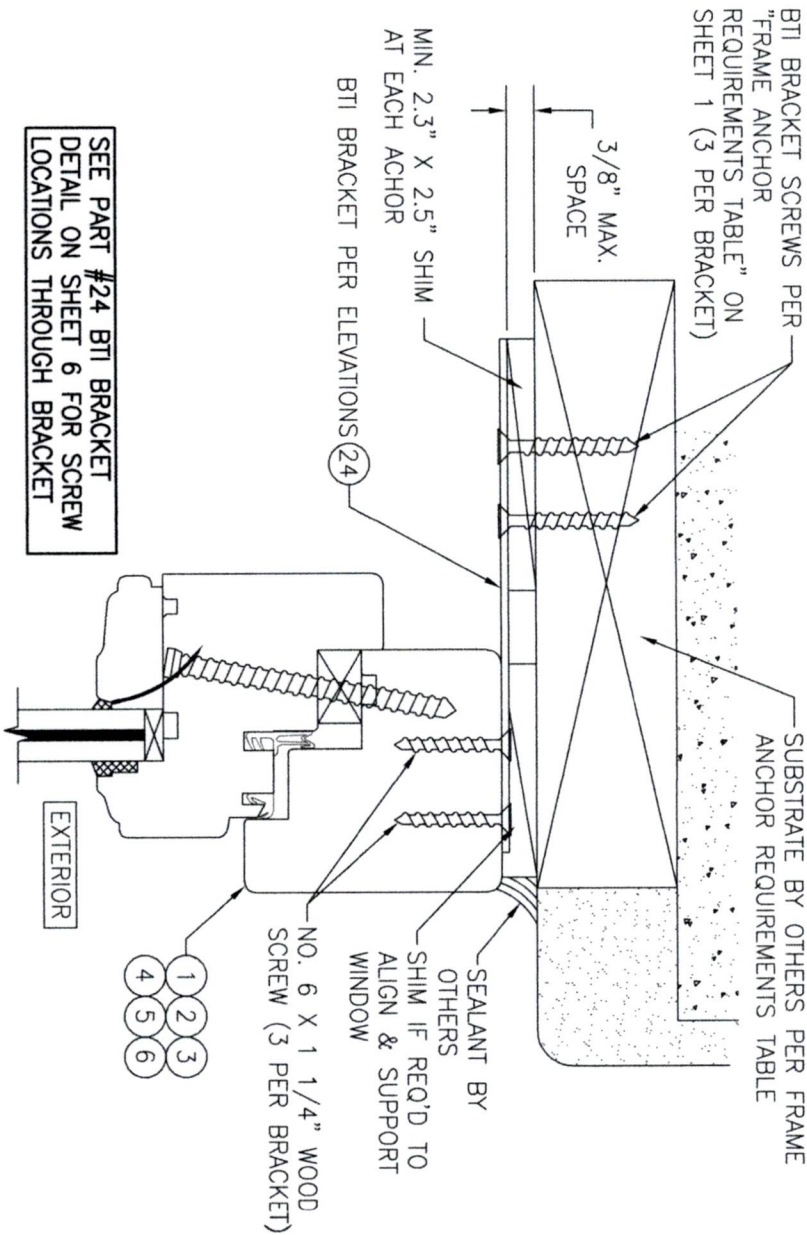
DRAWING NO. 1534
 REV. D
 SHEET NO. 4 OF 7



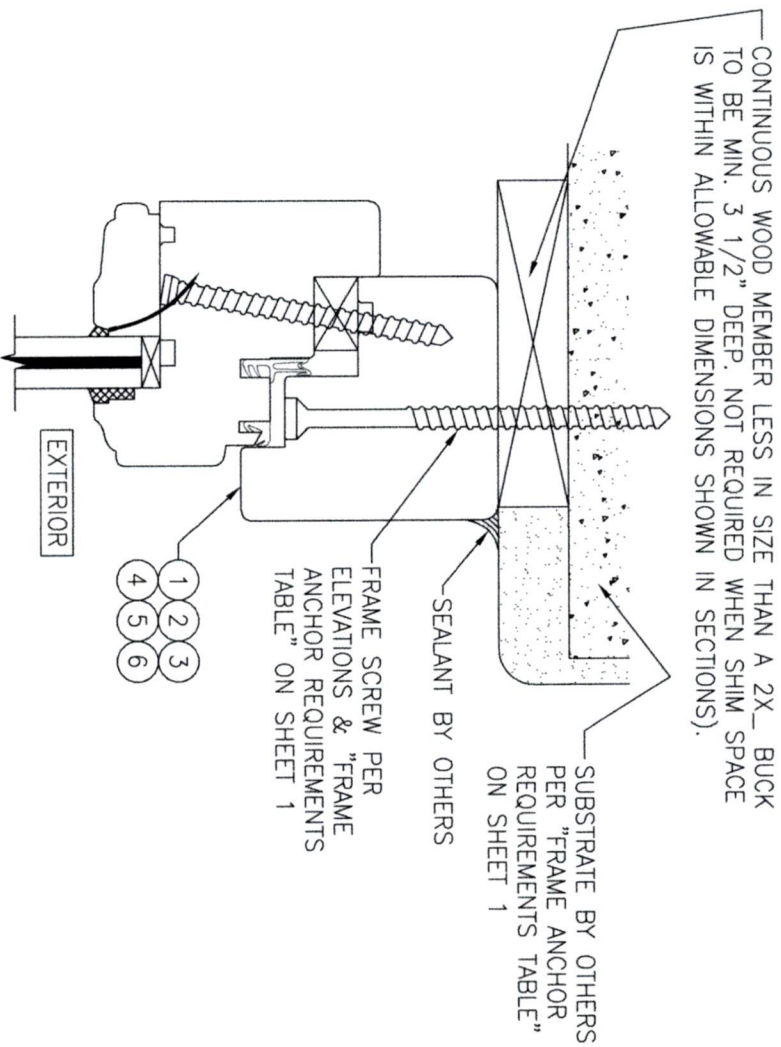
OPTIONAL INSTALLATION ANGLE CLIP DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL BTI FRAME ANCHOR DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION BTI BRACKET DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER 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)

NO.	REVISION	DESCRIPTION	BY	DATE

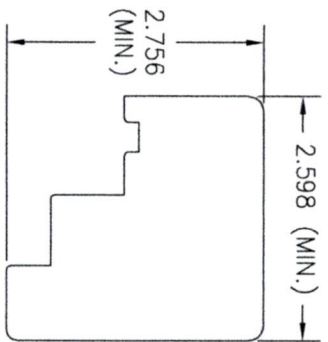
MANUFACTURER
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203-674-0600

DRAWING TITLE
IN-SWING IMPACT WOOD FIXED CASEMENT WINDOW

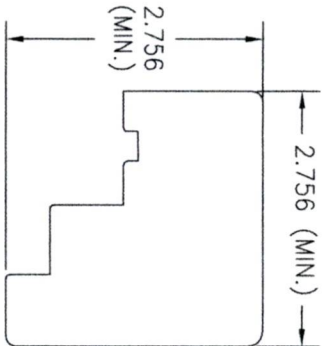
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PUNTA GORDA, FL 33983
PHONE: 561-744-3424

CERTIFICATION
WARREN W. SCHAEFER, P.E.
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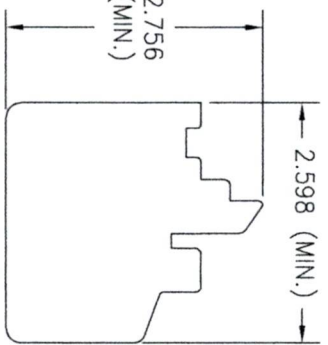
DRAWING NO. **1534** REV. **D**
SHEET NO. **5** OF **7**



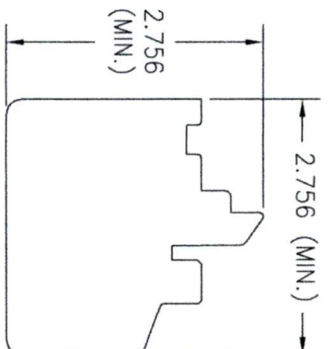
1 HEAD



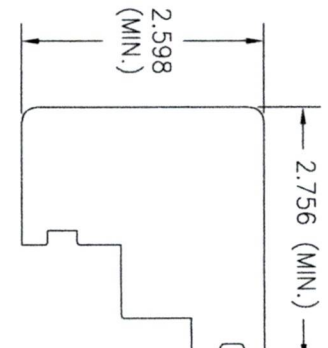
2 HEAD



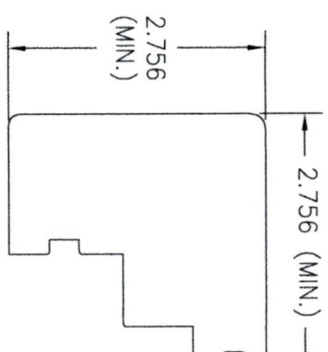
3 SILL



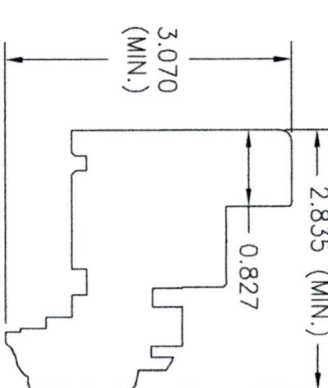
4 SILL



5 JAMB



6 JAMB

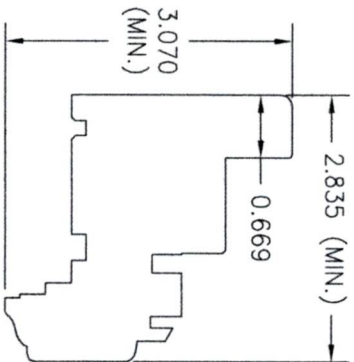


7 SASH

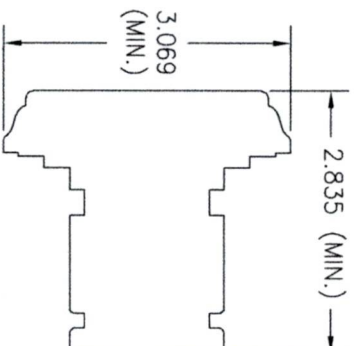
(USED WHEN FIXED WINDOW IS COMBINED WITH CONCEALED HINGE CASEMENT WINDOW)

(USED WHEN FIXED WINDOW IS COMBINED WITH CONCEALED HINGE CASEMENT WINDOW)

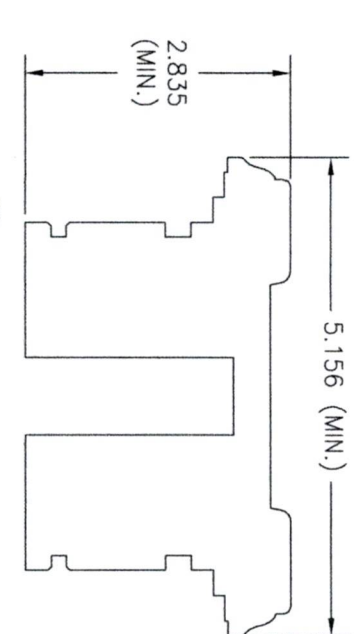
(USED WHEN FIXED WINDOW IS COMBINED WITH CONCEALED HINGE CASEMENT WINDOW)



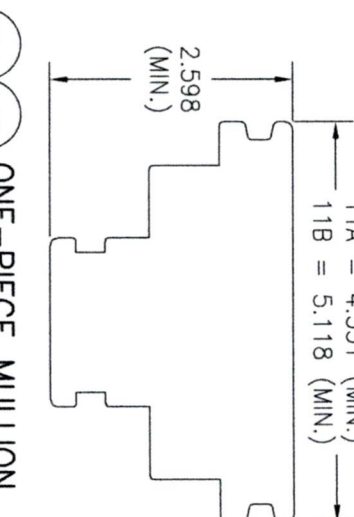
8 SASH



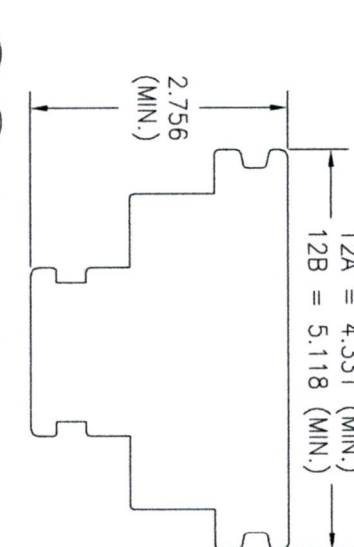
9 MID-RAIL



10 1 PIECE ASTRAGAL STILE



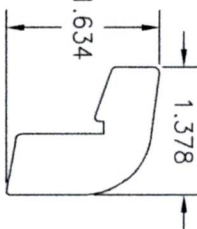
11A 11B ONE-PIECE MULLION



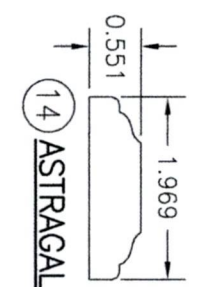
12A 12B ONE-PIECE MULLION

(USED WHEN FIXED WINDOW IS COMBINED WITH CONCEALED HINGE CASEMENT WINDOW)

(USED WHEN FIXED WINDOW IS COMBINED WITH CONCEALED HINGE CASEMENT WINDOW)



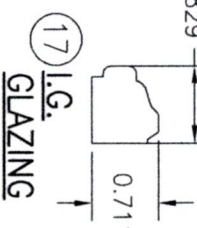
13 BOTTOM RAIL DRIP EDGE



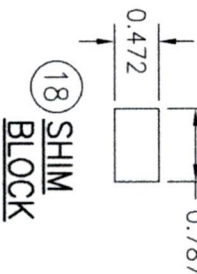
14 ASTRAGAL



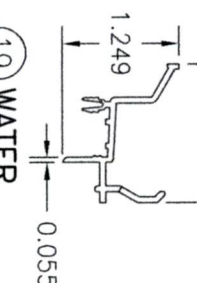
16 NON-I.G. GLAZING BEAD



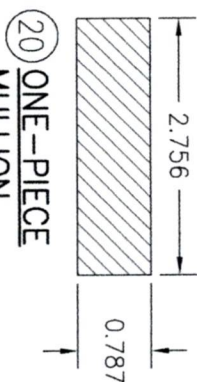
17 I.G. GLAZING BEAD



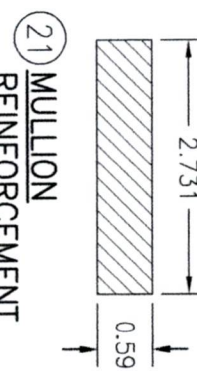
18 SHIM BLOCK



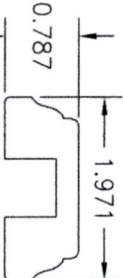
19 WATER DEFLECTOR



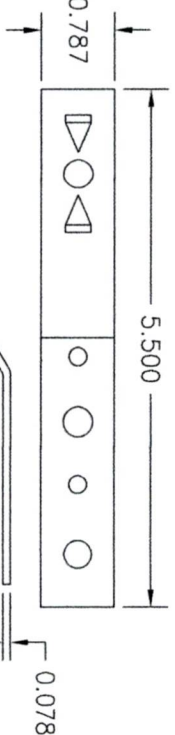
20 ONE-PIECE MULLION REINFORCEMENT



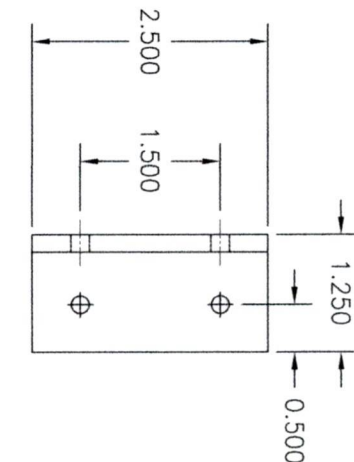
21 MULLION REINFORCEMENT



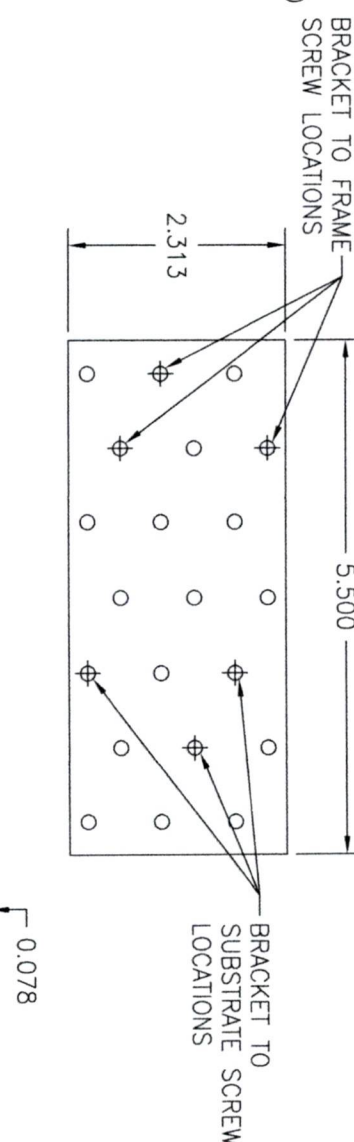
15 MULLION BAR COVER



22 INSTALLATION CLIP



23 ANGLE CLIP



24 BTI BRACKET

NO.	REVISION	DESCRIPTION	BY	DATE
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
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19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24

DRAWING TITLE	CONSULTANTS	MANUFACTURER
IN-SWING IMPACT WOOD FIXED CASEMENT WINDOW	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 26376 NADIR ROAD; UNIT 309 PUNTA GORDA, FL 33983 PHONE: 561-744-3424	TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

CERTIFICATION	DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1534	D
6 OF 7		

ITEM #		ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	HEAD (STANDARD)	MAHOGANY	
2	HEAD (OPTIONAL)	MAHOGANY	
3	SILL (STANDARD)	MAHOGANY	
4	SILL (CONCEALED HINGE WINDOW)	MAHOGANY	
5	JAMB (STANDARD)	MAHOGANY	
6	JAMB (CONCEALED HINGE WINDOW)	MAHOGANY	
7	SASH (STANDARD)	MAHOGANY	
8	SASH (OPTIONAL)	MAHOGANY	
9	MID-RAIL	MAHOGANY	
10	1 PIECE ASTRAGAL STILE	MAHOGANY	
11A	ONE-PIECE NON-REINFORCED MULLION (STANDARD)	MAHOGANY	
11B	ONE-PIECE REINFORCED MULLION (STANDARD)	MAHOGANY	
12A	ONE-PIECE NON-REINFORCED MULLION (OPTIONAL)	MAHOGANY	
12B	ONE-PIECE REINFORCED MULLION (OPTIONAL)	MAHOGANY	
13	BOTTOM RAIL DRIP EDGE	MAHOGANY	
14	ASTRAGAL	MAHOGANY	
15	MULLION BAR COVER	MAHOGANY	
16	NON-I.G. GLAZING BEAD	MAHOGANY	
17	I.G. GLAZING BEAD	MAHOGANY	
18	SHIM BLOCK	MAHOGANY	
19	WATER DEFLECTOR	6061-T6 ALUMINUM	
20	ONE-PIECE MULLION REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL	
21	TRANSOM/VERTICAL MULLION REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL	
22	INSTALLATION CLIP	GALVANIZED 40.6 KSI STEEL	
23	ANGLE CLIP	6061-T6 ALUMINUM	
24	BTI BRACKET	GALVANIZED 42.6 KSI STEEL	
25	I.G. SPACER	ALUMINUM	
SEALS & SEALANTS			
29	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER	
30	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER	
FASTENERS			
33	OPTIONAL 18 GA. X 1 1/2" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.	
34	NO. 14 X 3 1/8" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 17" MAX. O.C.	
35	NO. 6 X 5/8" WOOD SCREW	2" FROM CORNERS & 4 3/4" MAX. O.C.	

0.490

0.256

WALL THICKNESS = 0.016

25 I.G. GLASS SPACER

IN-SWING IMPACT WOOD FIXED CASEMENT WINDOW

CONSULTANTS

W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.

26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

MANUFACTURER

TISCHLER UND SOHN (USA) LTD.

SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT
203-674-0600

CERTIFICATION

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. REV.

1534 D

SHEET NO.

7 OF 7

DRAWN BY: W.R.M.

CHECKED BY: W.M.S.

DATE: 04/03/08

NO.

REVISION

DESCRIPTION

BY

DATE