

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 & 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/BRACKET 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"

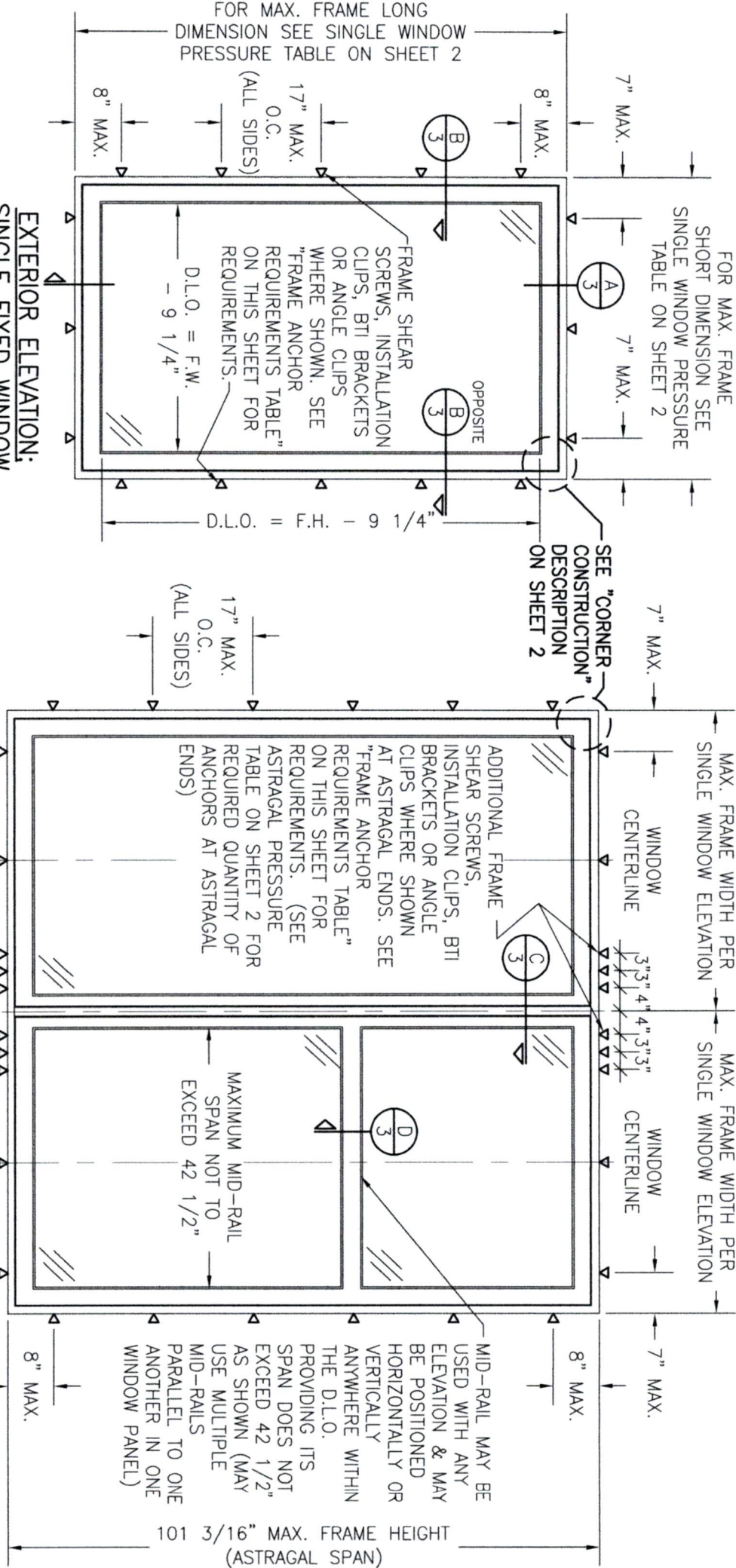
INSTALLATION CLIP SCREWS

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.).



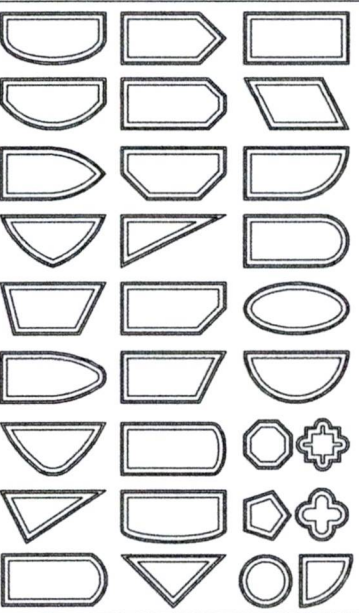
EXTERIOR ELEVATION, SINGLE FIXED WINDOW

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.

EXTERIOR 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
16:20:15 -05'00'

ANCHOR/SUBSTRATE EVALUATION NOTE:

ALL ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE GUIDELINES OF THIS DOCUMENT. ANY SUBSTRATES OR CONDITIONS OUTSIDE OF WHAT IS SHOWN HERE-IN SHALL BE SUBJECT TO JOB SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.

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.

NO.	REVISION DESCRIPTION	BY	DATE	DRAWN BY:	CHECKED BY:
				W.R.M.	W.M.S.
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
OUT-SWING IMPACT WOOD FIXED CASEMENT WINDOW

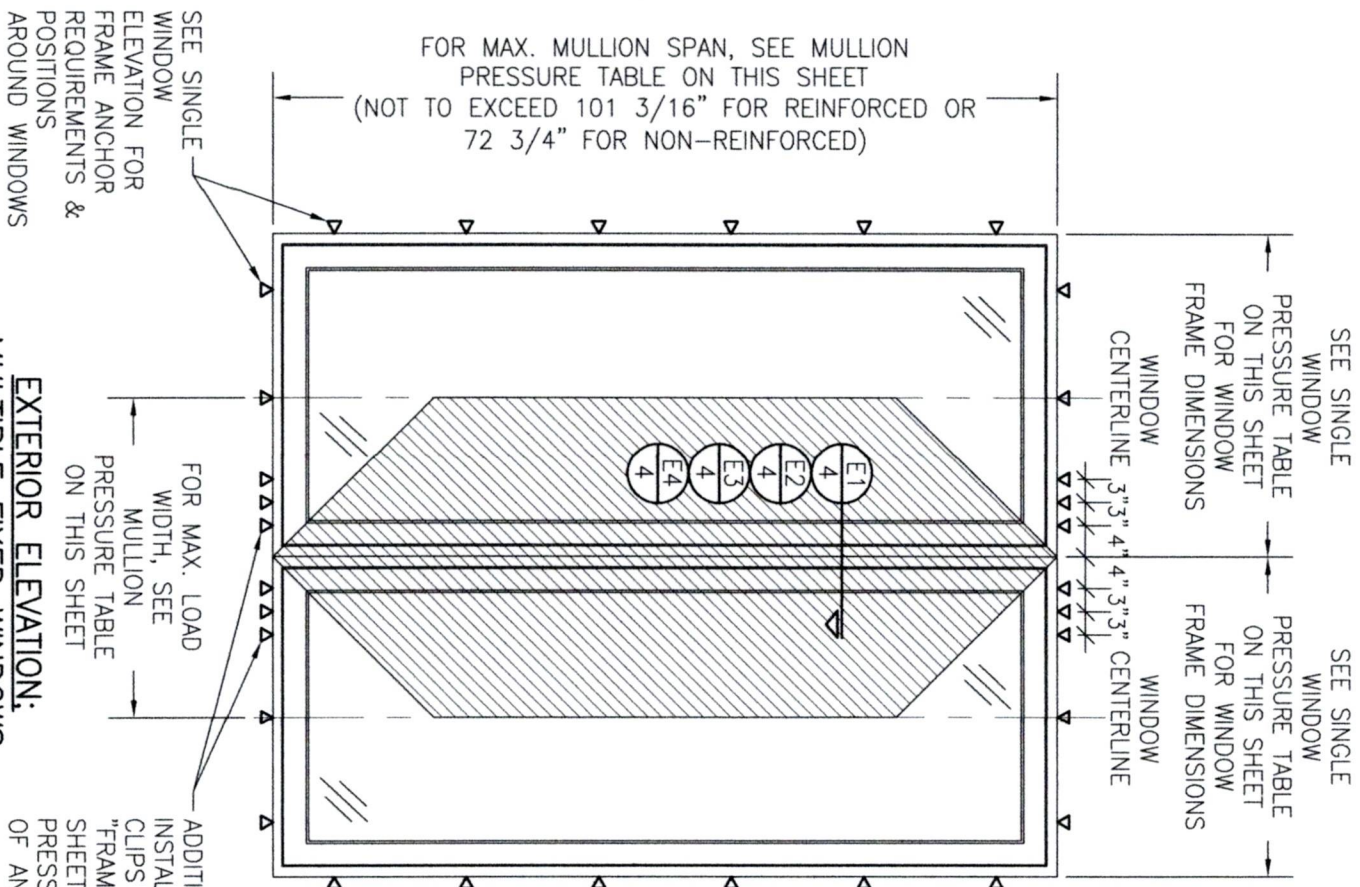
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

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.
1533	D
SHEET NO.	OF
1	6



ALLOWABLE SINGLE WINDOW PRESSURE TABLE						
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (+/- PSF)				
		GLASS OPTIONS 1, 4 & 5	GLASS OPTION 2		GLASS OPTION 3	GLASS OPTION 6
			POS.	NEG.		
144	35	70.0	70.0	70.0	70.0	70.0
	27	70.0	70.0	85.0	70.0	70.0
	39	70.0	70.0	70.0	70.0	70.0
132	29	70.0	70.0	85.0	70.0	70.0
	42	70.0	70.0	70.0	70.0	70.0
	32	70.0	70.0	85.0	70.0	70.0
120	47	70.0	70.0	70.0	69.0	70.0
	43	70.0	70.0	70.0	70.0	70.0
	36	70.0	70.0	85.0	70.0	70.0
108	52	70.0	70.0	70.0	65.9	70.0
	49	70.0	70.0	70.0	68.3	70.0
	43	70.0	70.0	70.0	70.0	70.0
101	38	70.0	70.0	85.0	70.0	70.0
	53	N/A	70.0	70.0	70.0	70.0
	40	70.0	70.0	85.0	70.0	70.0
96	61	N/A	70.0	70.0	70.0	70.0
	46	70.0	70.0	85.0	70.0	70.0
	66	N/A	70.0	70.0	70.0	70.0
77	51	70.0	70.0	85.0	70.0	70.0
	70	N/A	70.0	70.0	70.0	70.0
	53	N/A	70.0	85.0	70.0	70.0
73	72	N/A	70.0	85.0	70.0	70.0
	67	58	N/A	70.0	85.0	70.0
	63	62	N/A	70.0	85.0	70.0

1. SEE GLAZING DETAILS FOR GLASS OPTIONS.

2. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT GLASS OPTION.

3. WINDOW SIZES SHOWN ARE MAXIMUM SIZES. SMALLER SIZES SHALL APPLY TO LOADS EQUAL TO THE NEAREST LARGER SIZE SHOWN IN TABLE.

4. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL

5. DIMENSIONS SHOWN ARE +/-1/2".

ASTRAGAL ALLOWABLE DESIGN PRESSURE							
MAXIMUM ASTRAGAL SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)					
		4 END ANCHORS		6 END ANCHORS			
		POS.	NEG.	POS.	NEG.		
101	72	52.2	52.2	53.6	N/A		
	67	54.0	54.0	56.1	N/A		
	61	56.8	56.8	59.7	N/A		
	55	60.4	60.4	64.8	N/A		
	49	65.1	65.1	70.0	71.0		
	43	70.0	71.4	70.0	77.8		
	37	70.0	80.0	70.0	85.0		
	31	70.0	85.0	70.0	85.0		
	72	56.5	56.5	60.7	60.7		
	67	58.3	58.3	63.3	63.3		
96	61	61.1	61.1	66.6	66.6		
	55	64.8	64.8	70.0	70.6		
	49	69.7	69.7	70.0	75.9		
	43	70.0	76.2	70.0	83.0		
	37	70.0	85.0	70.0	85.0		
	72	70.0	70.6	70.0	77.0		
	67	70.0	74.2	70.0	78.6		
	61	70.0	74.8	70.0	81.5		
	55	70.0	78.6	70.0	85.0		
	49	70.0	83.7	70.0	85.0		
84	43	70.0	85.0	70.0	85.0		
	72	70.0	82.7	70.0	85.0		
	67	70.0	83.8	70.0	85.0		
77	61	70.0	85.0	70.0	85.0		
	72	70.0	85.0	70.0	85.0		
72 3/4	72	70.0	85.0	70.0	85.0		

NOTES:

1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.

2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.

3. DIMENSIONS SHOWN ARE +/-1/2".

MULLION ALLOWABLE DESIGN PRESSURE										
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)								
		NON-REINFORCED		REINFORCED						
		4 OR 6 END ANCHORS	POS.	NEG.	4 END ANCHORS	POS.	NEG.	6 END ANCHORS	POS.	NEG.
	72	N/A	N/A	N/A	4.18	4.18	44.3	44.3	46.3	46.3
	67	N/A	N/A	N/A	43.3	43.3	46.3	46.3	49.3	49.3
	61	N/A	N/A	N/A	45.5	45.5	49.3	49.3	53.5	53.5
	55	N/A	N/A	N/A	48.4	48.4	53.5	53.5	58.9	58.9
	49	N/A	N/A	N/A	52.2	52.2	58.9	58.9	65.8	65.8
101	43	N/A	N/A	N/A	57.3	57.3	65.8	65.8	74.3	74.3
	37	N/A	N/A	N/A	64.2	64.2	70.0	70.0	85.0	85.0
	31	N/A	N/A	N/A	70.0	73.9	70.0	70.0	85.0	85.0
	25	N/A	N/A	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	72	N/A	N/A	N/A	45.3	45.3	50.1	50.1	55.5	55.5
96	67	N/A	N/A	N/A	46.8	46.8	52.3	52.3	59.9	59.9
	61	N/A	N/A	N/A	49.0	49.0	55.5	55.5	64.7	64.7
	55	N/A	N/A	N/A	52.0	52.0	59.9	59.9	70.8	70.8
	49	N/A	N/A	N/A	55.9	55.9	64.7	64.7	79.1	79.1
	43	N/A	N/A	N/A	61.1	61.1	70.0	70.0	84.4	84.4
	37	N/A	N/A	N/A	68.3	68.3	70.0	70.0	85.0	85.0
	31	N/A	N/A	N/A	70.0	78.5	70.0	70.0	85.0	85.0
	25	N/A	N/A	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	72	N/A	N/A	N/A	56.7	56.7	65.6	65.6	76.8	76.8
	67	N/A	N/A	N/A	57.9	57.9	67.0	67.0	77.8	77.8
84	61	N/A	N/A	N/A	60.0	60.0	69.5	69.5	80.0	80.0
	55	N/A	N/A	N/A	63.0	63.0	73.0	73.0	83.3	83.3
	49	N/A	N/A	N/A	67.2	67.2	70.0	70.0	85.0	85.0
	43	N/A	N/A	N/A	70.0	72.9	70.0	70.0	85.0	85.0
	37	N/A	N/A	N/A	70.0	80.8	70.0	70.0	85.0	85.0
77	31	N/A	N/A	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	72	N/A	N/A	N/A	66.3	66.3	70.0	70.0	85.0	85.0
	67	N/A	N/A	N/A	67.2	67.2	70.0	70.0	85.0	85.0
	61	N/A	N/A	N/A	69.0	69.0	70.0	70.0	85.0	85.0
	55	N/A	N/A	N/A	70.0	71.9	70.0	70.0	85.0	85.0
72 3/4	49	N/A	N/A	N/A	70.0	76.1	70.0	70.0	85.0	85.0
	43	N/A	N/A	N/A	70.0	82.1	70.0	70.0	85.0	85.0
	37	N/A	N/A	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	72	48.6	48.6	N/A	70.0	74.0	70.0	70.0	85.0	85.0
	67	49.1	49.1	N/A	70.0	74.5	70.0	70.0	85.0	85.0
	61	50.5	50.5	N/A	70.0	76.0	70.0	70.0	85.0	85.0
	55	52.9	52.9	N/A	70.0	78.7	70.0	70.0	85.0	85.0
	49	54.7	54.7	N/A	70.0	82.8	70.0	70.0	85.0	85.0
	43	62.0	62.0	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	37	70.0	70.0	N/A	70.0	85.0	70.0	70.0	85.0	85.0
67	31	70.0	80.7	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	25	70.0	85.0	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	67 OR GREATER	62.1	62.1	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	61	63.1	63.1	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	55	65.1	65.1	N/A	70.0	85.0	70.0	70.0	85.0	85.0
61	52	66.9	66.9	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	49	69.0	69.0	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	43	70.0	74.9	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	37	70.0	83.7	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	31	70.0	85.0	N/A	70.0	85.0	70.0	70.0	85.0	85.0
55	61 OR GREATER	70.0	82.3	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	55	70.0	83.8	N/A	70.0	85.0	70.0	70.0	85.0	85.0
	52	70.0	85.0	N/A	70.0	85.0	70.0	70.0	85.0	85.0
NOTES:										
1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.										
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.										
3. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT REINFORCEMENT CONDITION.										
4. SIZE VALUES IN TABLE ARE +/-1/2"										

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.

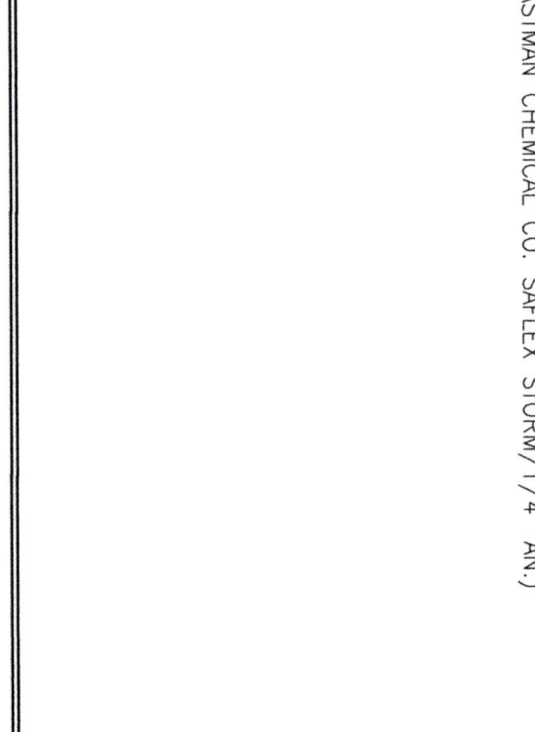
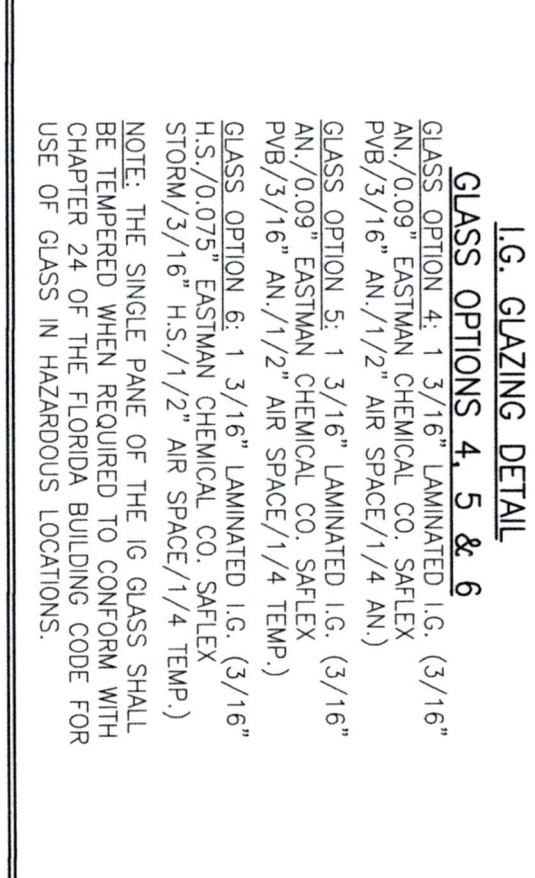
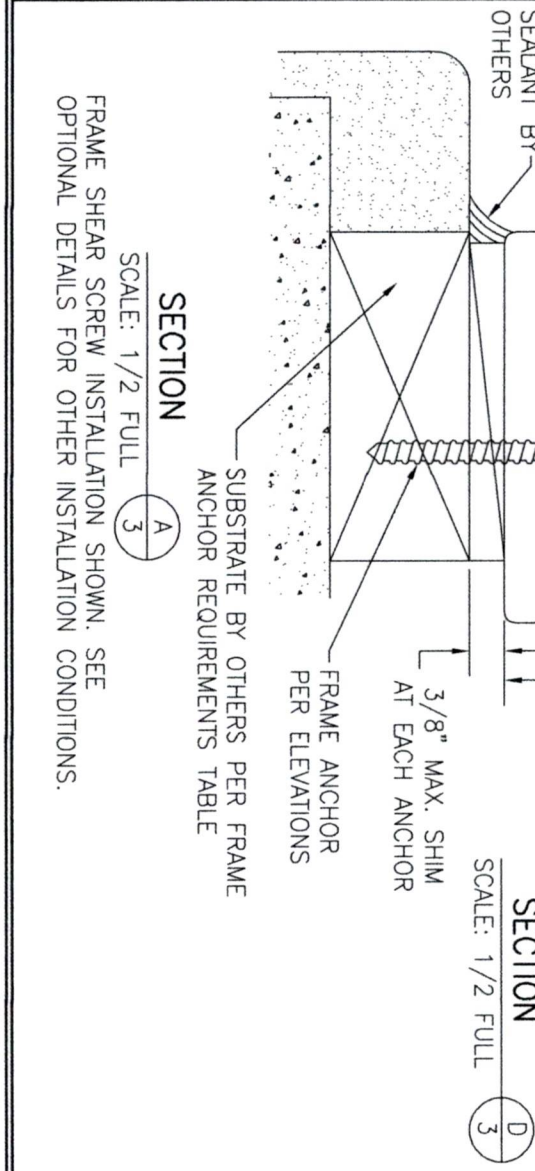
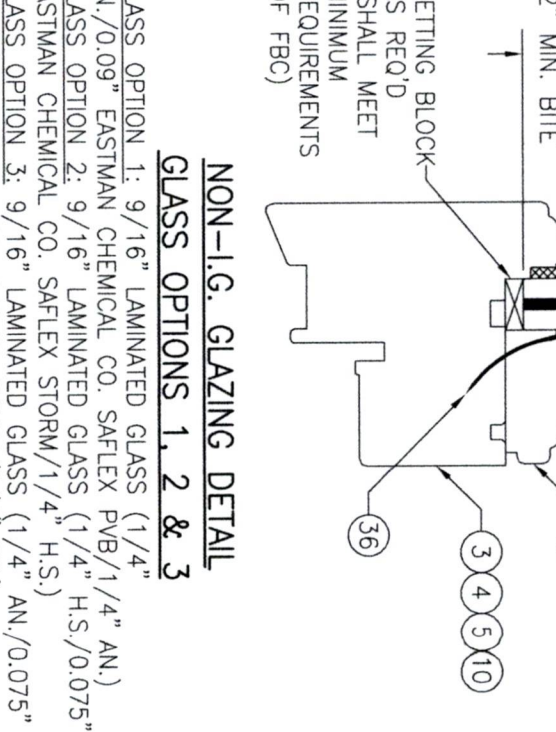
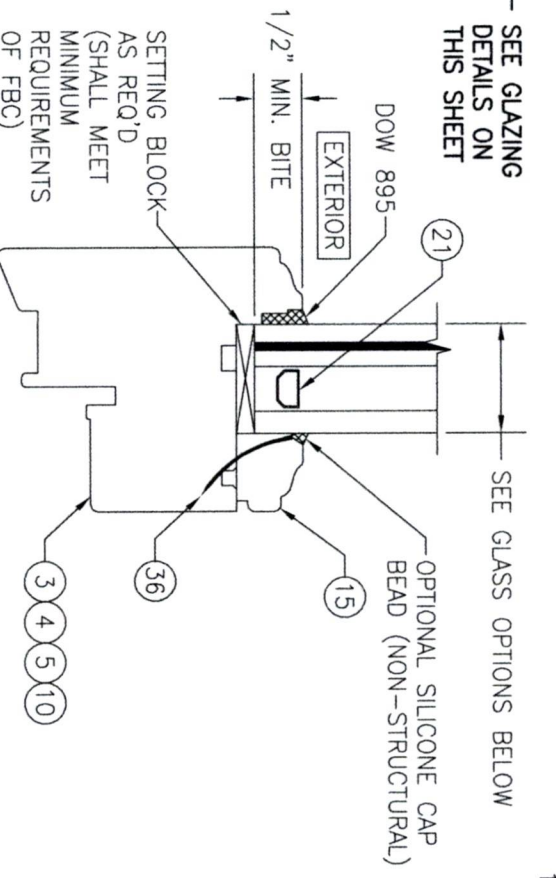
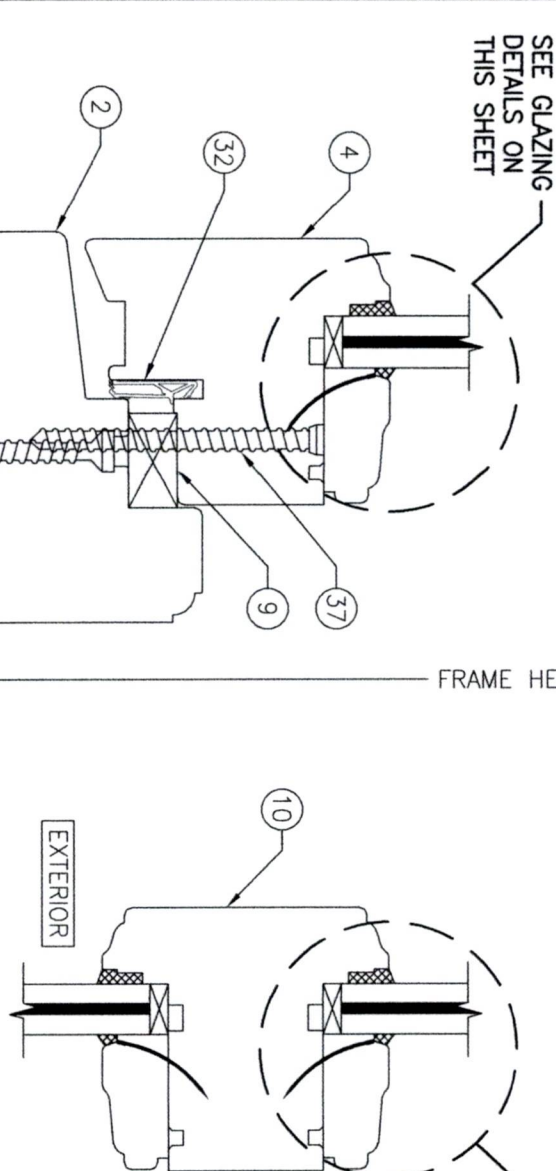
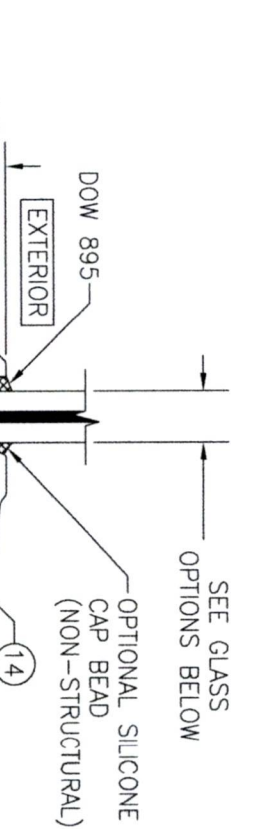
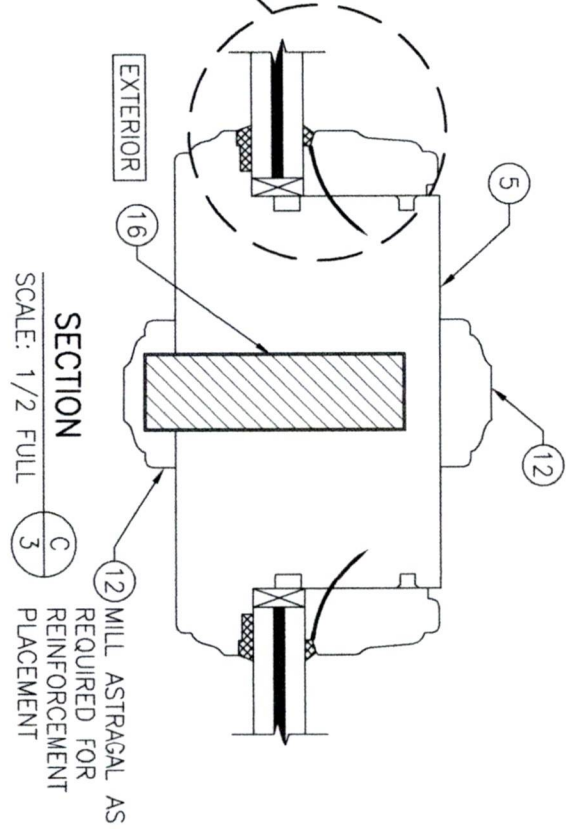
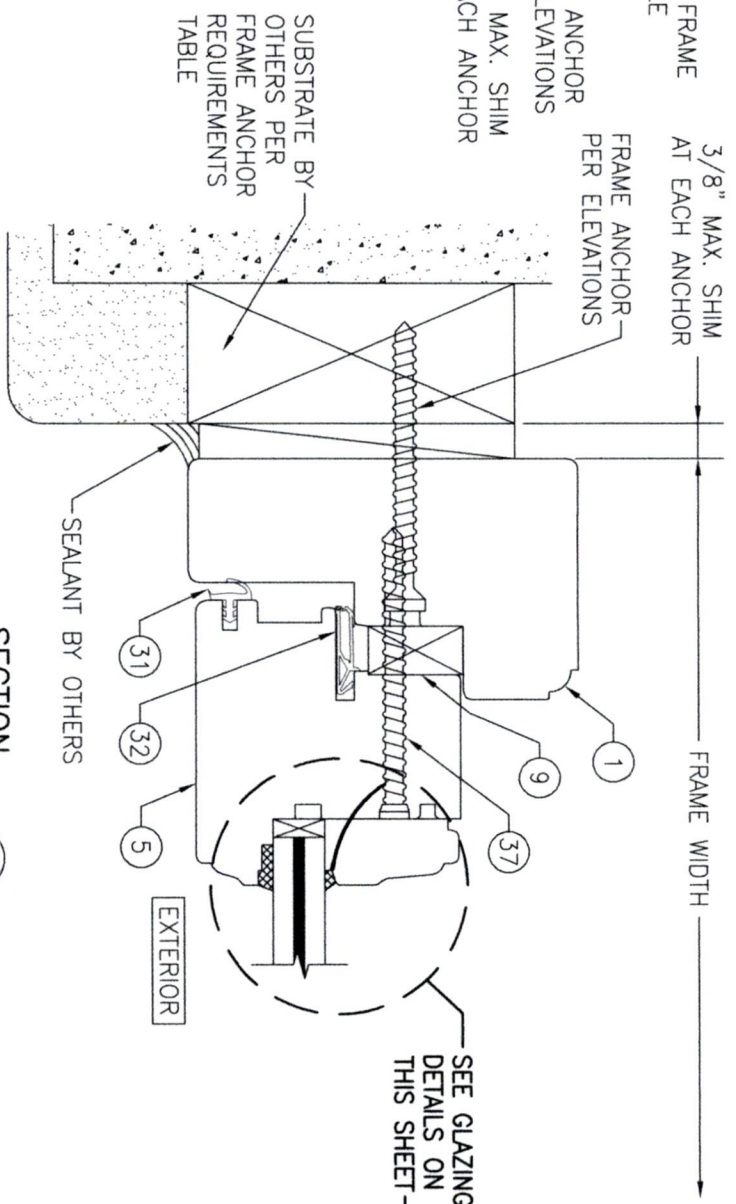
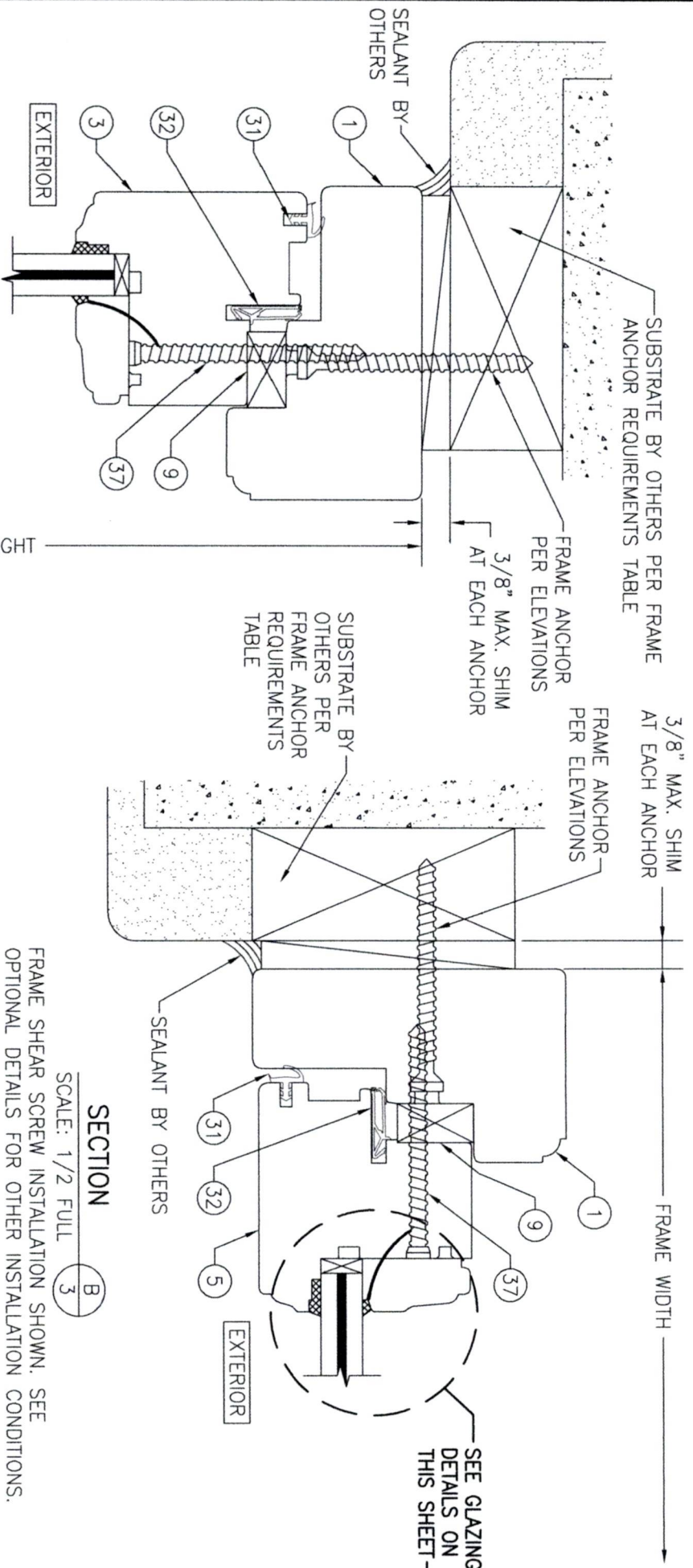
EXTERIOR ELEVATION:

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

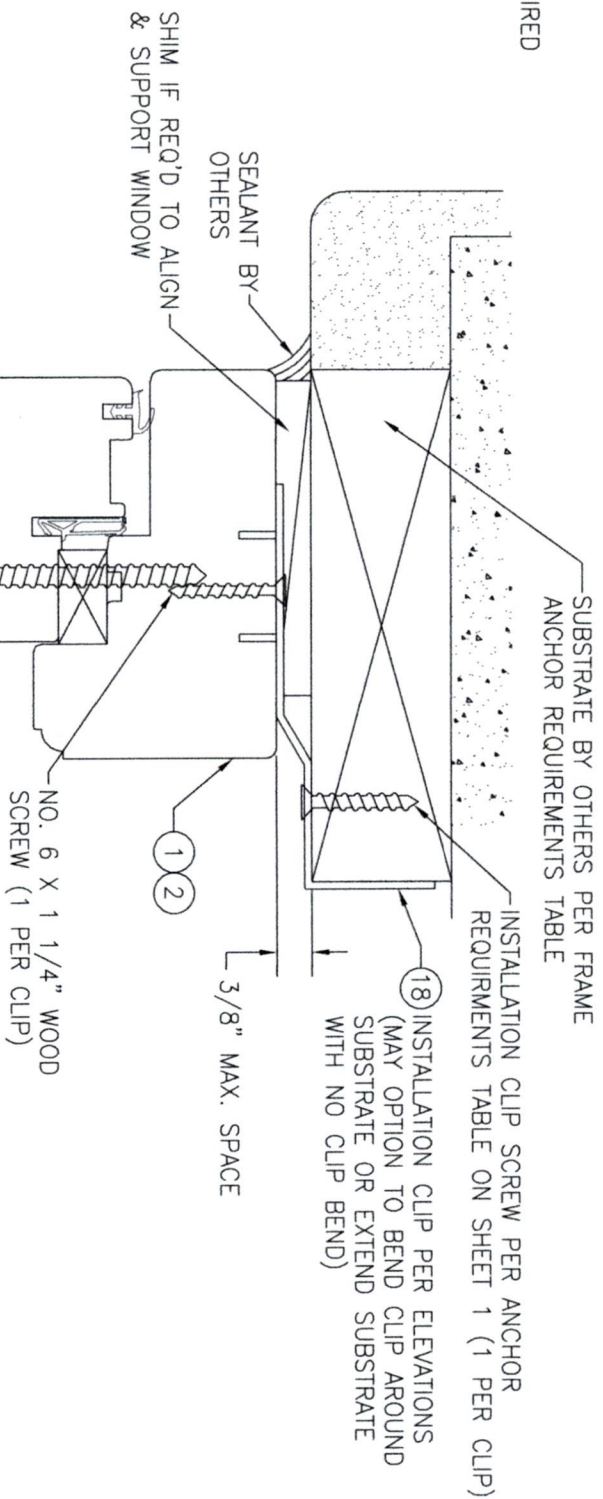
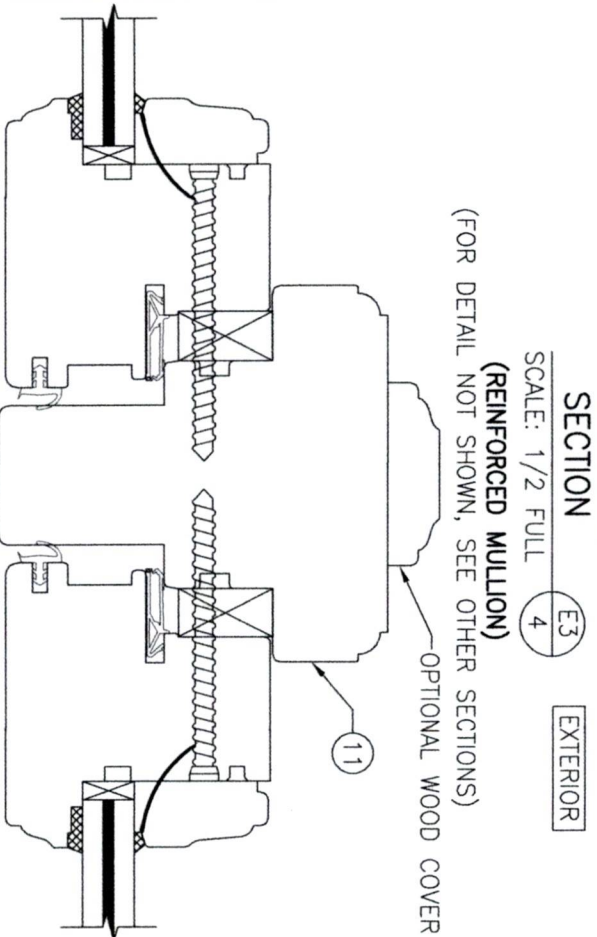
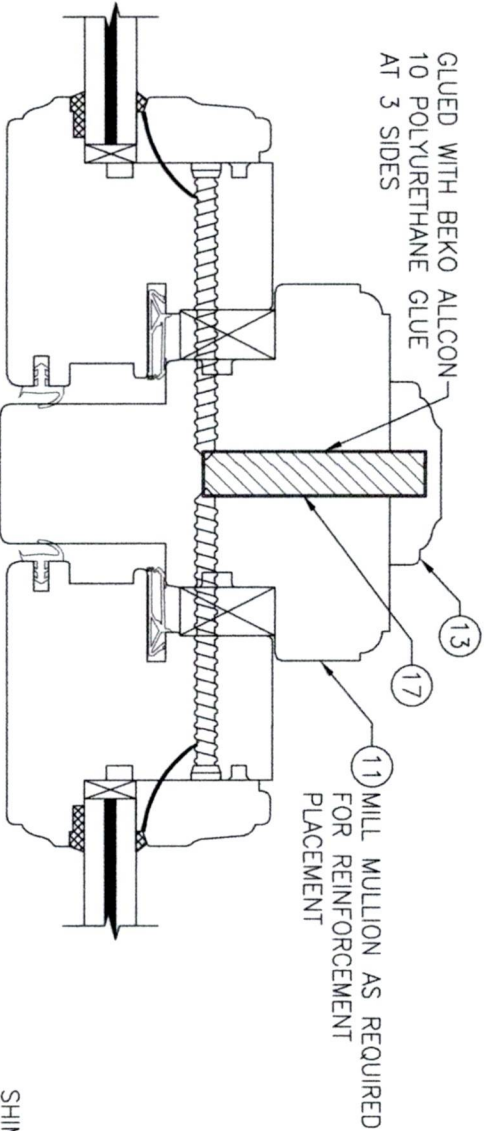
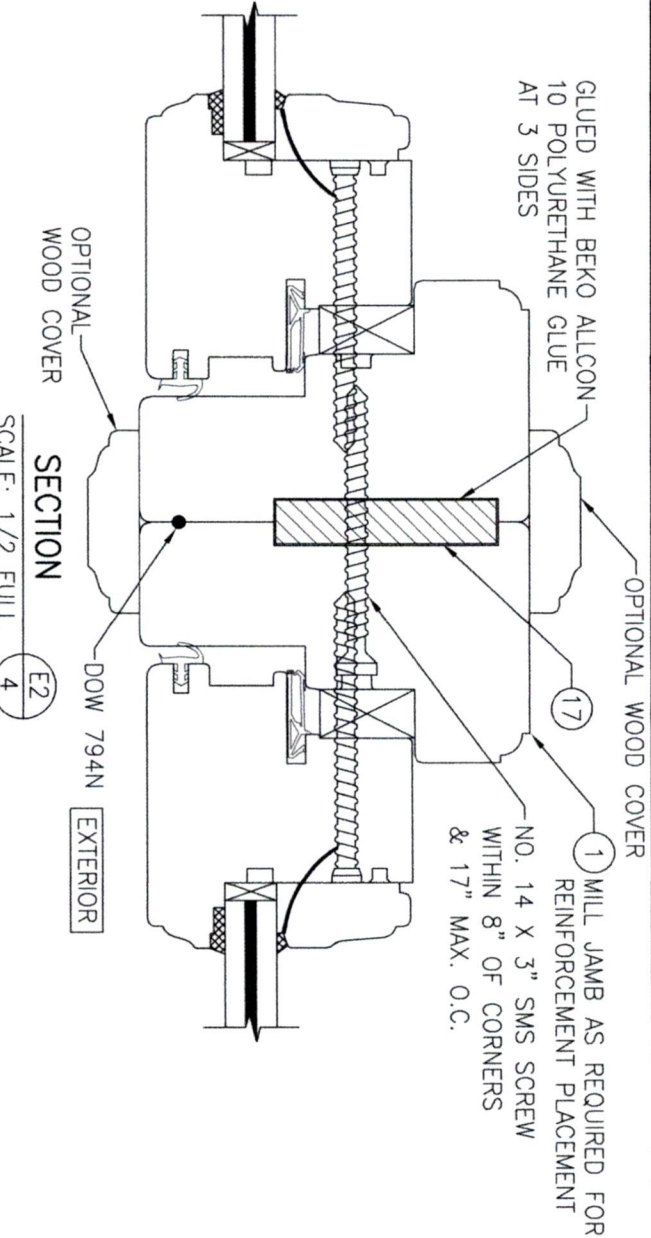
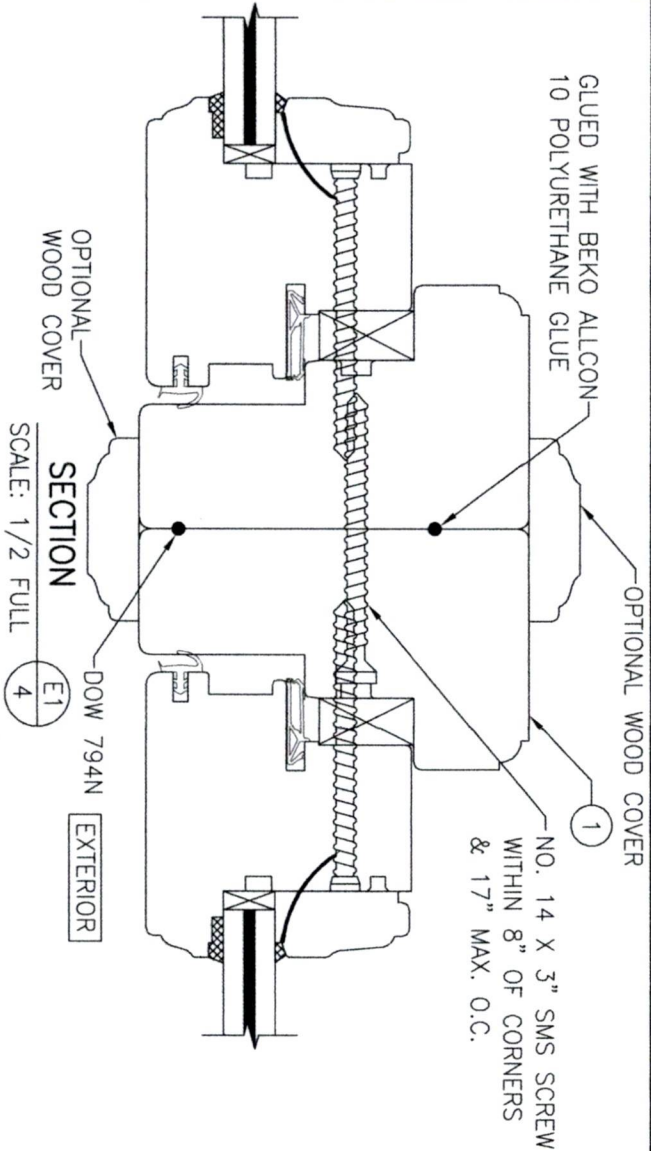
(RECTANGULAR WINDOWS SHOWN, SHAPED WINDOWS ALSO APPLY)

CORNER CONSTRUCTION:

RECTANGULAR FRAME CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL 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 PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
 HALF ROUND FRAME CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
 RECTANGULAR SASH CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL 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 PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
 HALF ROUND SASH CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.



DRAWING NO. 1533		REV. D	SHEET NO. 3 OF 6				
CERTIFICATION							
WARREN W. SCHAEFER, P.E. P.E. NO. 44135							
DRAWING TITLE							
OUT-SWING IMPACT WOOD FIXED CASEMENT WINDOW							
CONSULTANTS		MANUFACTURER					
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					
NO.	REVISION	DESCRIPTION	BY	DATE	PLOT: 1=2	DRAWN BY: W.R.M.	CHECKED BY: W.M.S.



OPTIONAL INSTALLATION CLIP DETAIL

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION	DESCRIPTION	BY	DATE

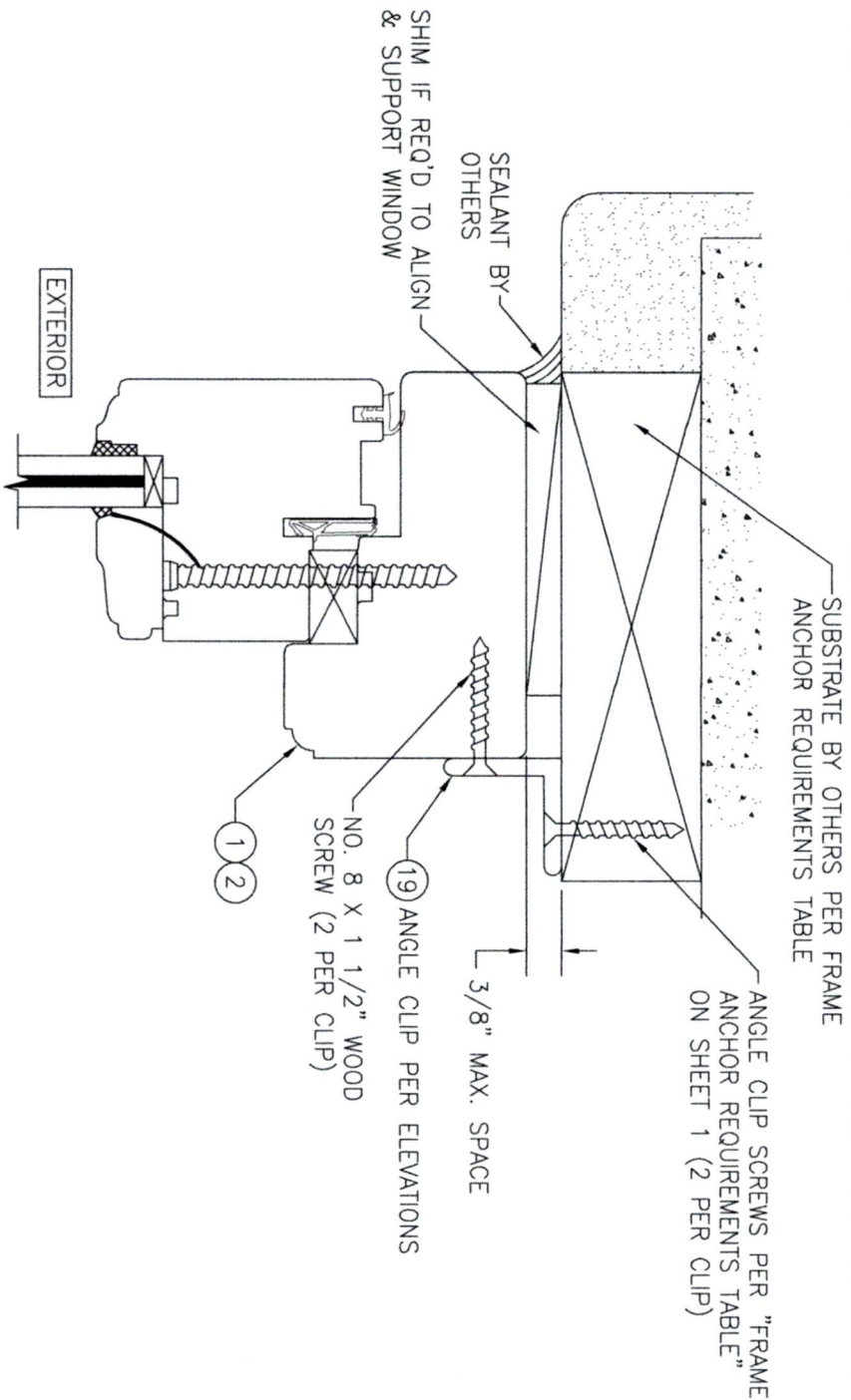
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
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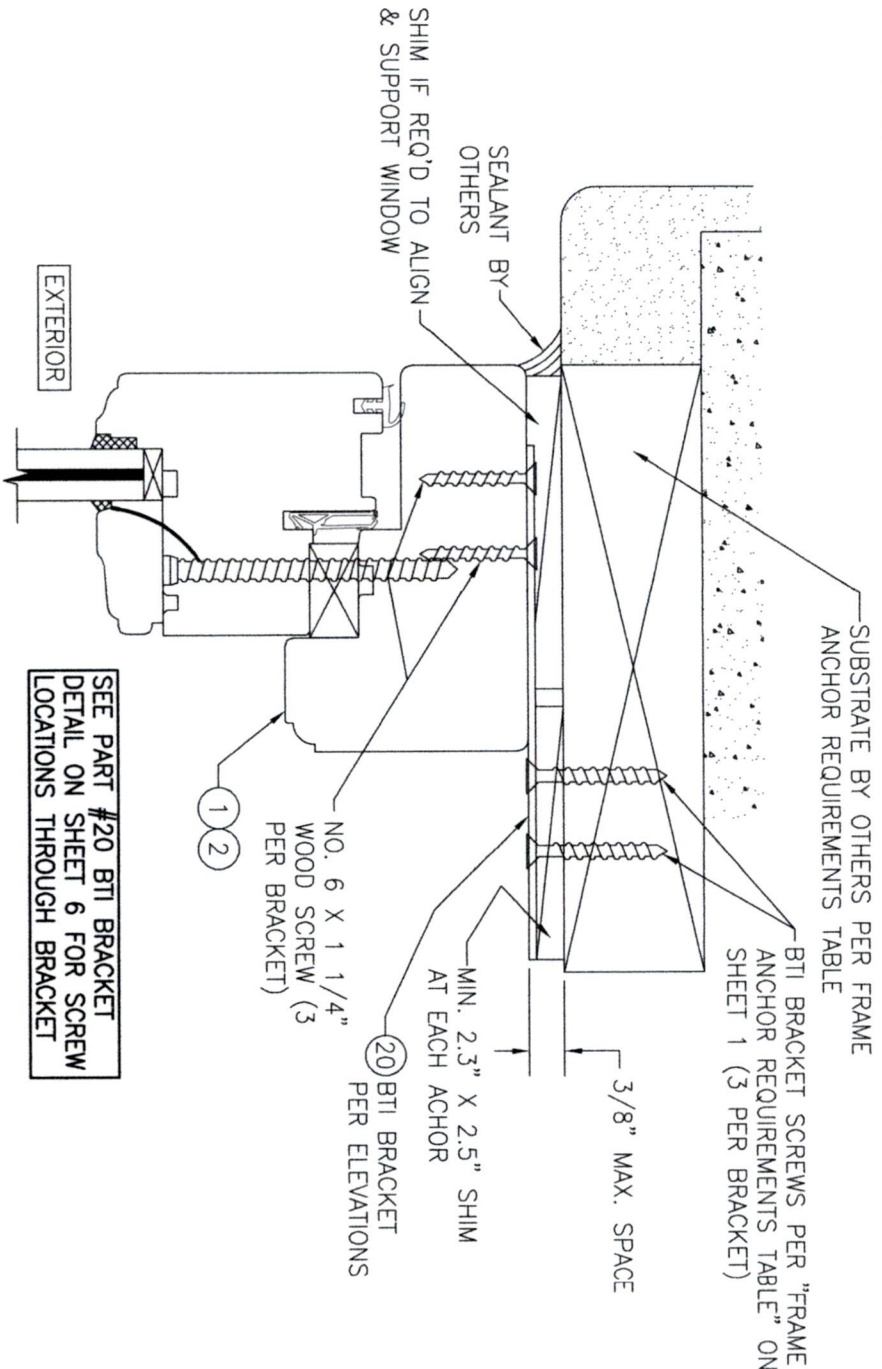
CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

OUT-SWING IMPACT WOOD FIXED CASEMENT WINDOW

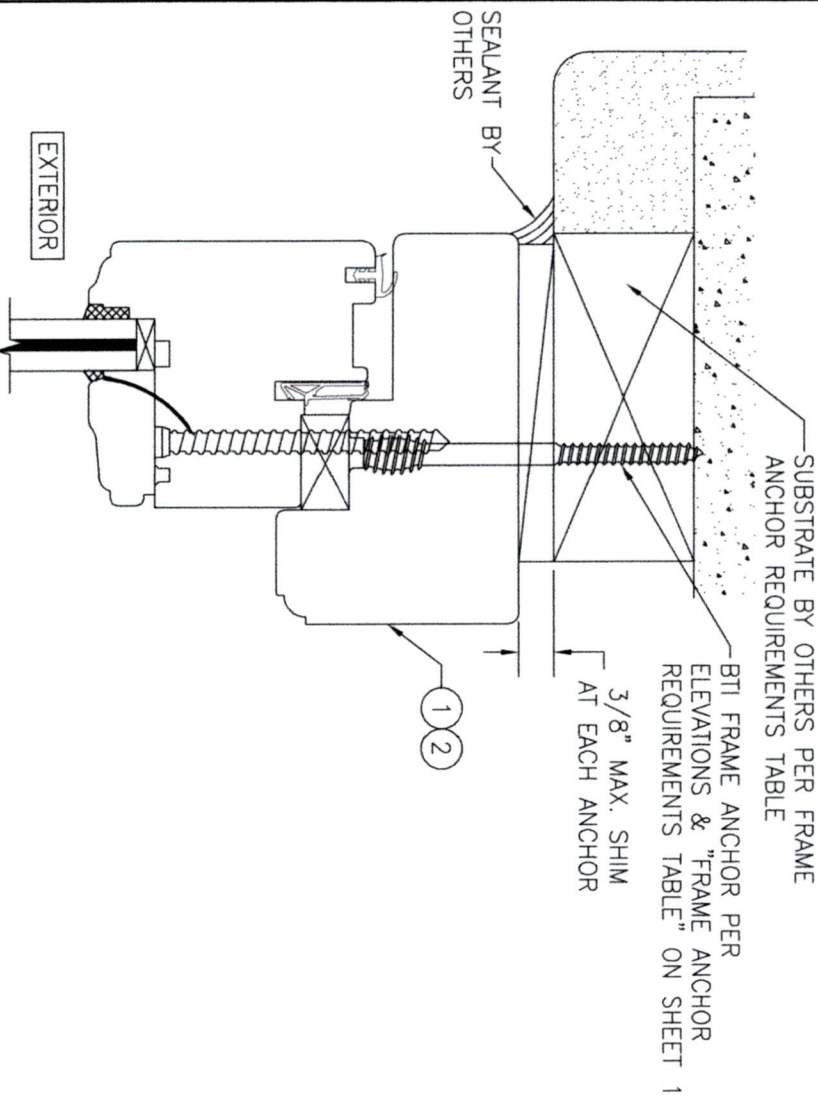
DRAWING NO. 1533
REV. D
SHEET NO. 4 OF 6



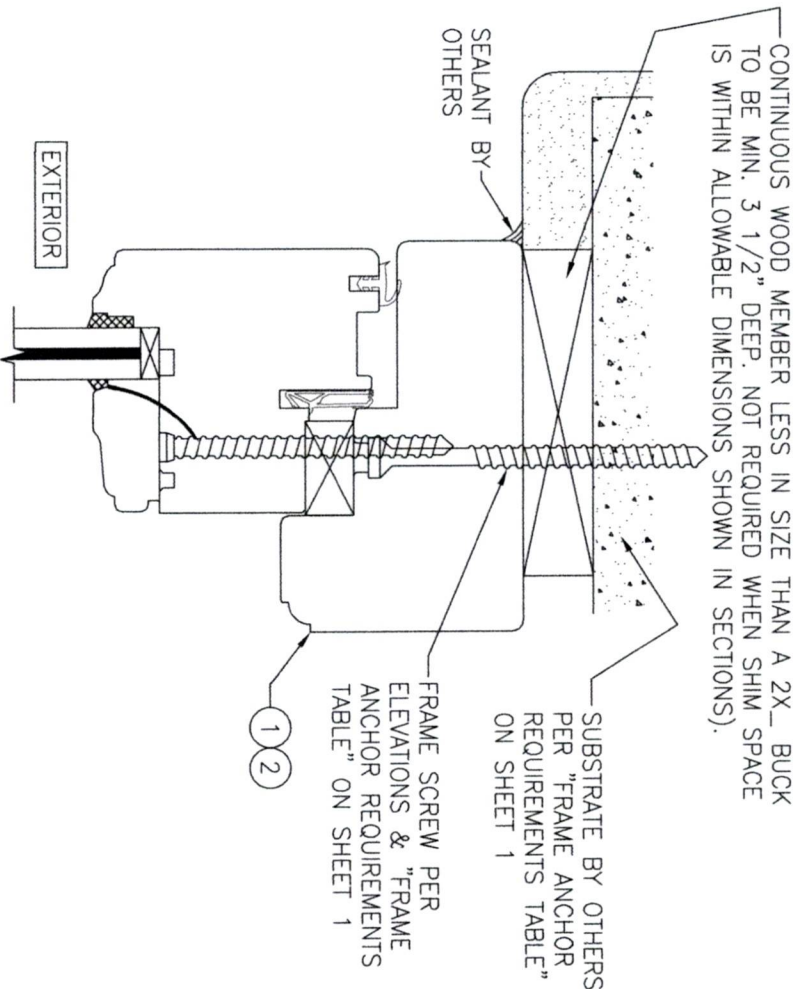
OPTIONAL INSTALLATION ANGLE CLIP DETAIL
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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



OPTIONAL BTI SCREW 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)

DRAWN BY:		CHECKED BY:		
W.R.M.		W.M.S.		
PLOT: 1=2		DATE: 04/03/08		
NO.	REVISION	DESCRIPTION	BY	DATE

OUT-SWING IMPACT WOOD FIXED CASEMENT WINDOW

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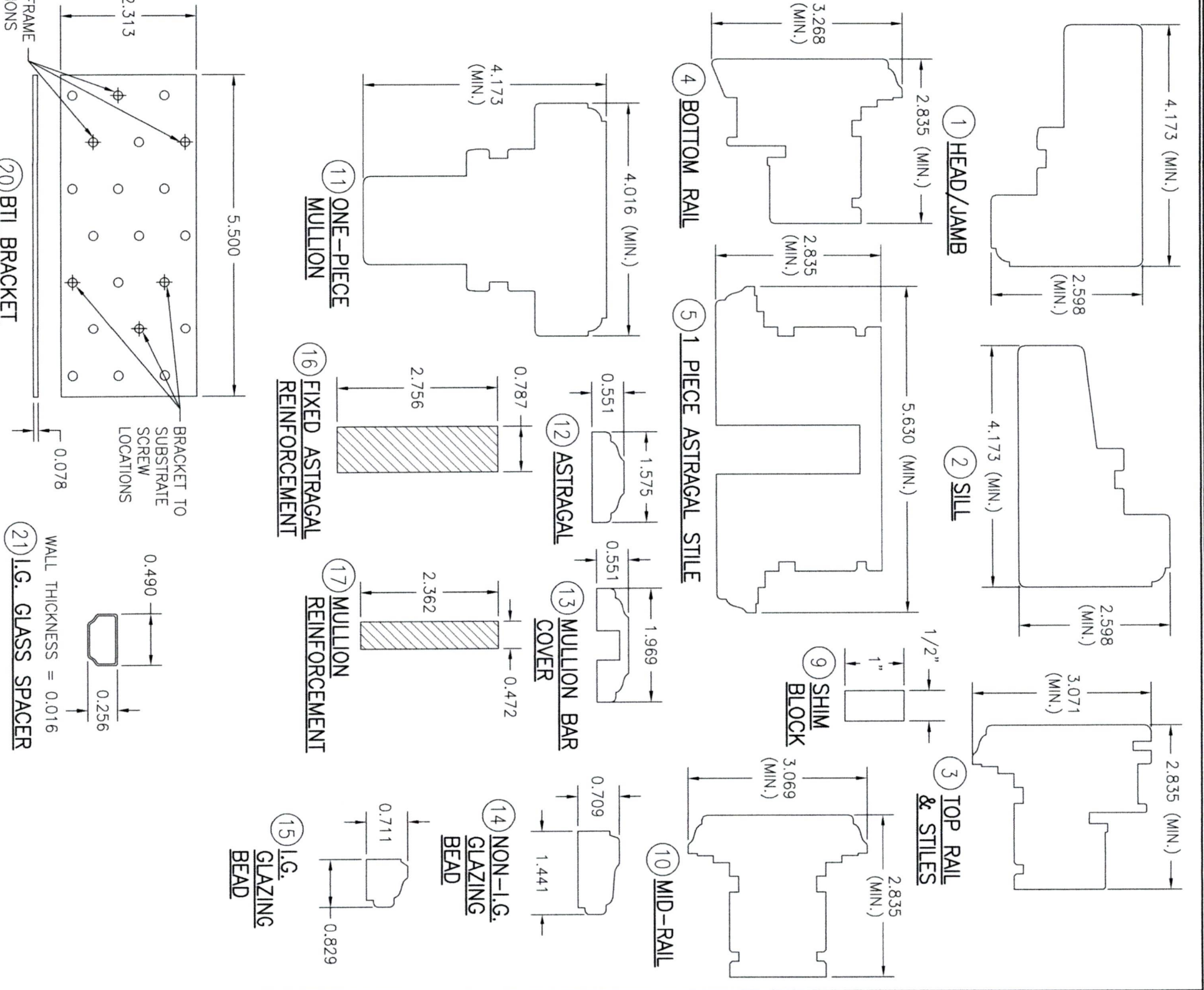
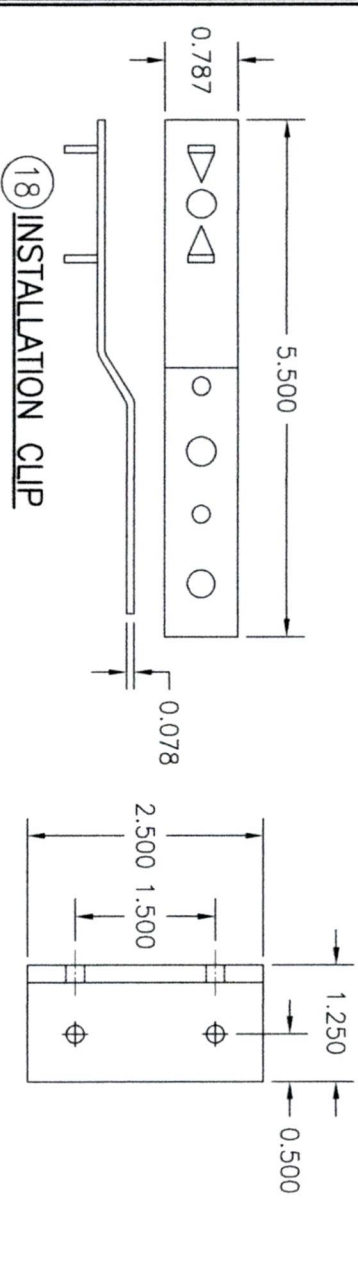
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT
203-674-0600

CERTIFICATION
WARREN W. SCHAEFER, P.E.
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DRAWING NO. 1533
REV. D
SHEET NO. 5 OF 6

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD/JAMB	MAHOGANY
2	SILL	MAHOGANY
3	TOP RAIL & STILES	MAHOGANY
4	BOTTOM RAIL	MAHOGANY
5	1 PIECE ASTRAGAL STILE	MAHOGANY
9	SHIM BLOCK	MAHOGANY
10	MID-RAIL	MAHOGANY
11	ONE-PIECE MULLION	MAHOGANY
12	ASTRAGAL	MAHOGANY
13	MULLION BAR COVER	MAHOGANY
14	NON-I.G. GLAZING BEAD	MAHOGANY
15	I.G. GLAZING BEAD	MAHOGANY
16	FIXED ASTRAGAL REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
17	MULLION REINFORCEMENT	32.6 KSI STAINLESS STEEL OR A36 STEEL
18	INSTALLATION CLIP	GALVANIZED 40.6 KSI STEEL
19	ANGLE CLIP	6061-T6 ALUMINUM
20	BTT BRACKET	GALVANIZED 42.6 KSI STEEL
21	I.G. SPACER	ALUMINUM
SEALS & SEALANTS		
31	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
32	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
33	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
FASTENERS		
36	OPTIONAL 18 GA. X 1 1/2" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.
37	NO. 14 X 3 1/8" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 17" MAX. O.C.

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.63 AND A MODULUS OF ELASTICITY OF E = 1,560,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.63 AND MODULUS OF ELASTICITY OF 1,560,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.



DRAWN BY:	CHECKED BY:			
W.R.M.	W.M.S.			
PLT: 1=2	DATE: 04/03/08			
NO.	REVISION	DESCRIPTION	BY	DATE

OUT-SWING IMPACT WOOD FIXED CASEMENT WINDOW

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MANUFACTURER
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DRAWING NO. 1533
SHEET NO. 6 OF 6