

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 (VH1Z) & 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 OTHERS DISMISAL 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/OA ENTRY & 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.

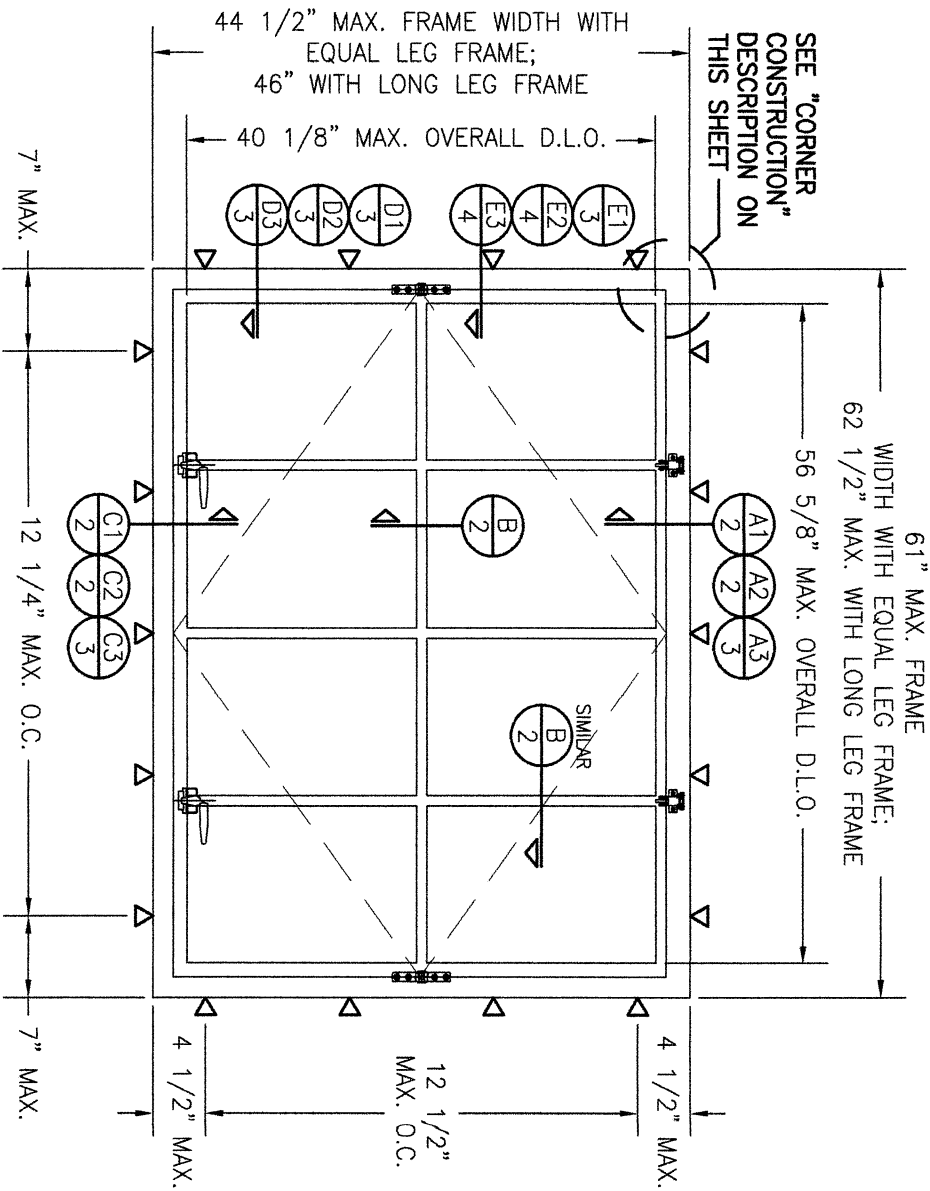
CORNER CONSTRUCTION:

FRAME: MITER CUT, BUTTED AND FULLY WELDED
SASH: MITER CUT, BUTTED AND FULLY WELDED
MUNTIN BAR TO SASH: FACE IS KEVED. BAR IS THEN BUTTED TO THE SASH
AND THE STEM OF THE MUNTIN BAR IS FULLY WELDED TO THE SASH.
MUNTIN BAR INTERSECTIONS: BARS ARE KEVED, INTERLOCKED AND THEN FULLY
WELDED AT THEIR STEMS.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 3/8"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4-20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSEL/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).			



EXTERIOR ELEVATION:

SINGLE PROJECT-OUT WINDOW

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

WINDOW REQUIREMENTS:

1. VERTICAL MUNTINS SHALL HAVE CONTINUOUS STEMS WHILE THE HORIZONTAL MUNTINS SHALL HAVE CONTINUOUS FACES. THE TWO ARE KEYED TOGETHER PER THE CORNER CONSTRUCTION DESCRIPTION ON THIS SHEET.
2. DIVIDED LIGHT LONG DIRECTIONS SHALL BE VERTICAL.
3. INDIVIDUAL DIVIDED LIGHT D.L.O. (DAY LIGHT OPENING) MAY NOT EXCEED 265 SQ. IN. OVERALL AREA NOR 19 5/8" IN HEIGHT.
4. QUANTITY OF DIVIDED LIGHTS IN EITHER THE SHORT OR LONG DIRECTIONS IS UNLIMITED.

ALLOWABLE DESIGN PRESSURE

+/-55.0 PSF

INSTALLATION NOTE:

WHEN NECESSARY, INSTALLATION METHODS MAY BE MIXED WITH ANY ONE WINDOW SUCH THAT INDIVIDUAL SIDES OF THE WINDOW MAY USE ONE OR THE OTHER ANCHOR METHOD (EXAMPLE: SILLS MAY USE FRAME SCREWS METHOD WHILE OTHER SIDES USE CLIP)

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.



Digitally signed
by Warren W
Schaefer

Date:

2024.09.05

08:15:27 -04'00'

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.

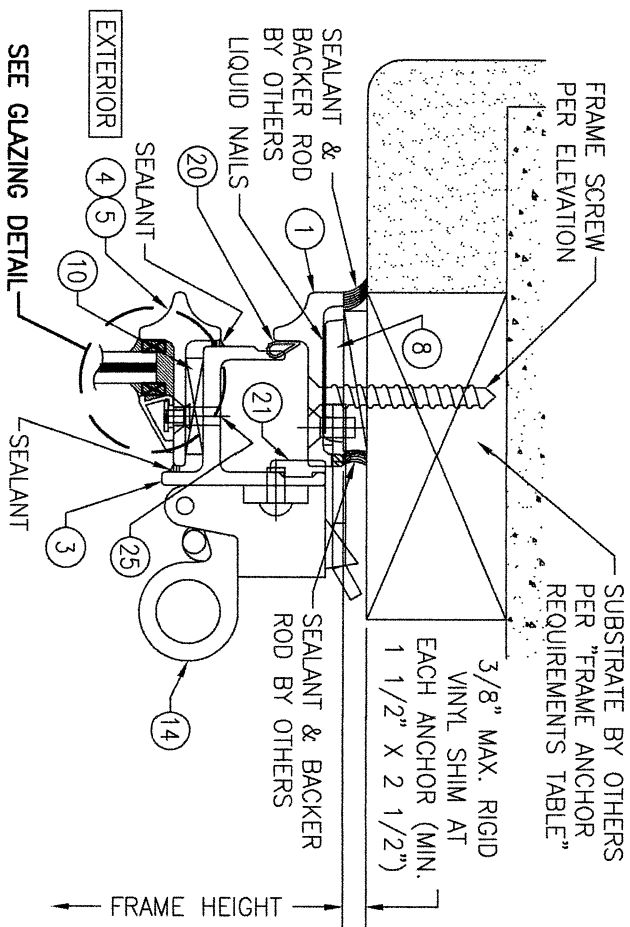
NO.	REVISION DESCRIPTION	BY	DATE
A1	INCREASE SHIM SPACE	W.W.S.	09/04/24

PLOT: 1=16
 DATE: 12/11/19

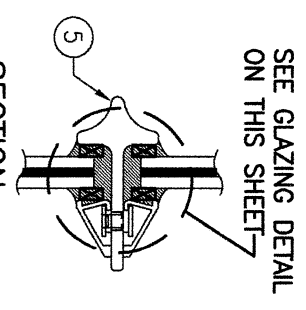
DRAWN BY: W.W.S.
 CHECKED BY: W.W.S.

DRAWING TITLE	
ONE55 HORIZONTALLY PIVOTED IMPACT WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124

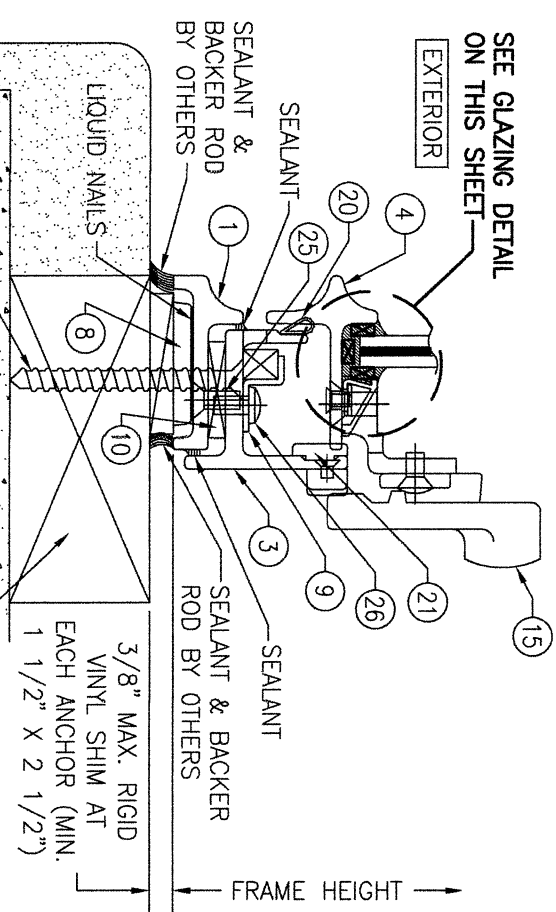
DRAWING NO.		REV.	<u>CERTIFICATION</u> _____ WARREN W. SCHAEFER, P.E. P.E. NO. 44135
1967			
SHEET NO.	A		
1 OF 4			



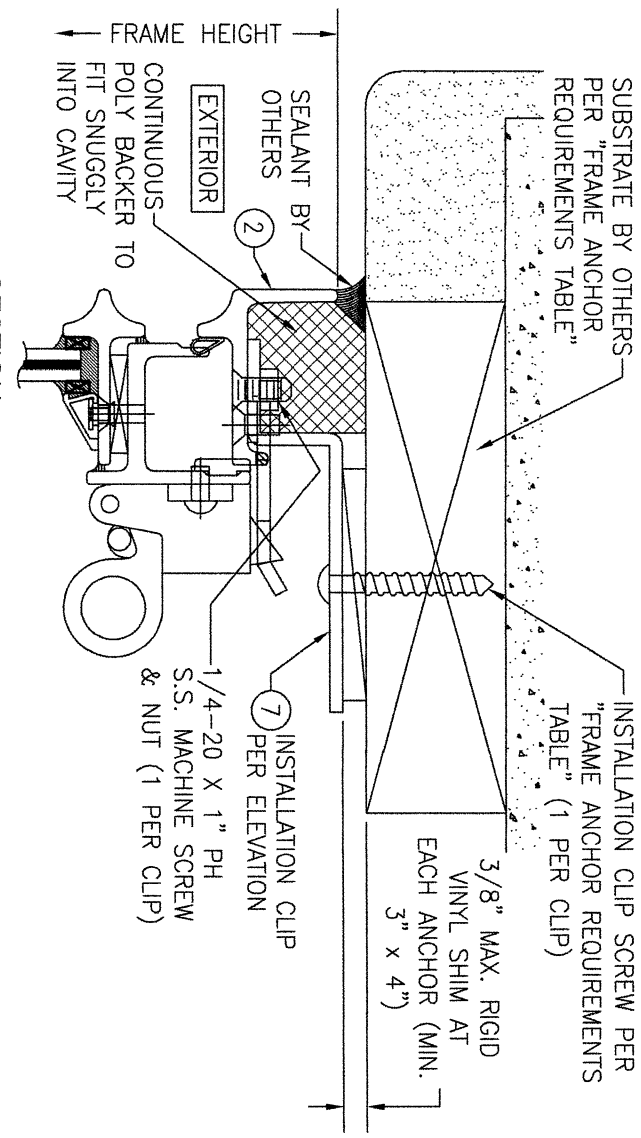
SECTION A1
SCALE: 1/2 FULL
(EQUAL LEG FRAME SCREW MOUNTED)



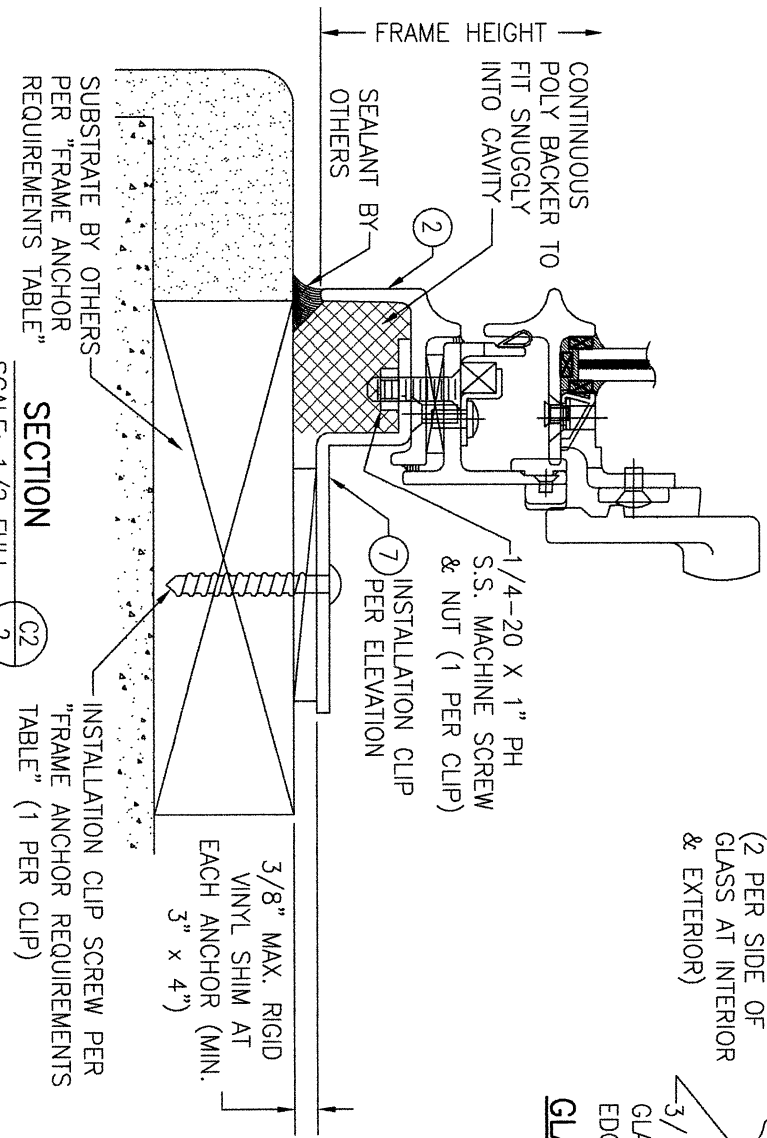
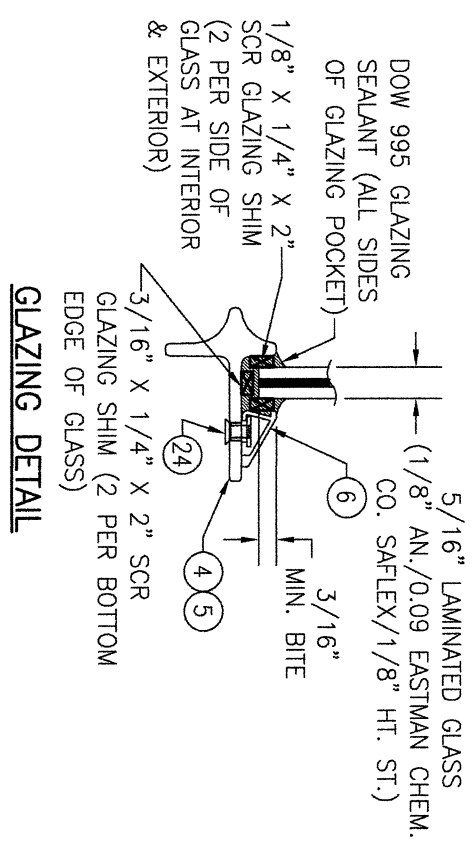
SECTION B
SCALE: 1/2 FULL



SECTION C1
SCALE: 1/2 FULL
(EQUAL LEG FRAME SCREW MOUNTED)



SECTION A2
SCALE: 1/2 FULL
(LONG LEG FRAME CLIP MOUNTED)
(FOR DETAIL NOT SHOWN, SEE SECTION A1/2)

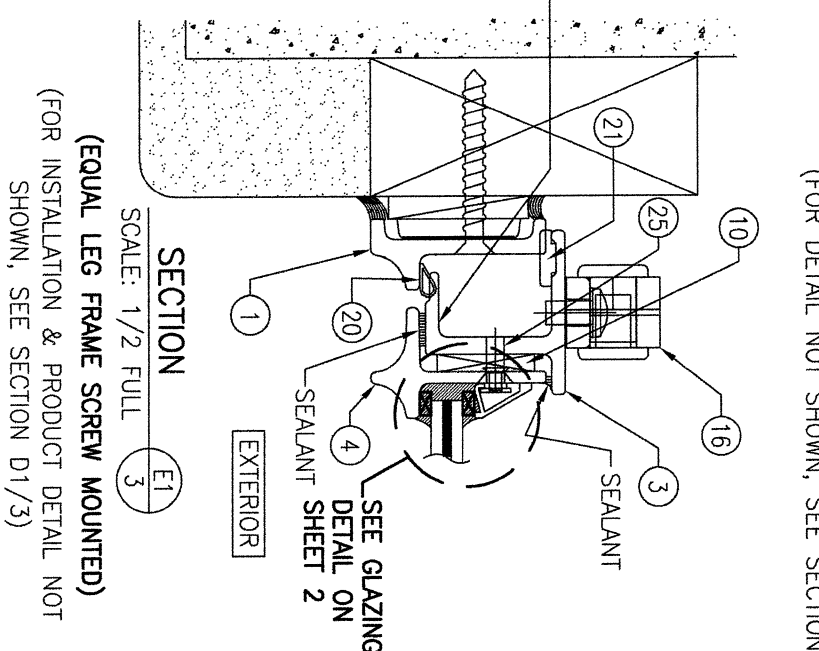
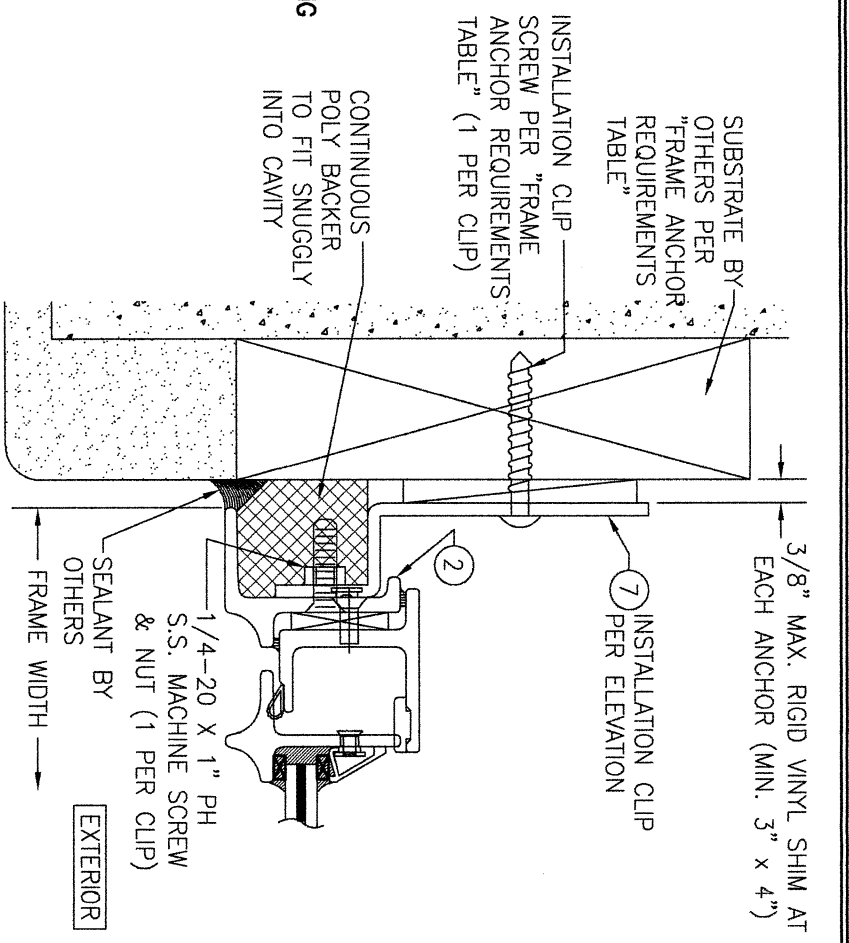
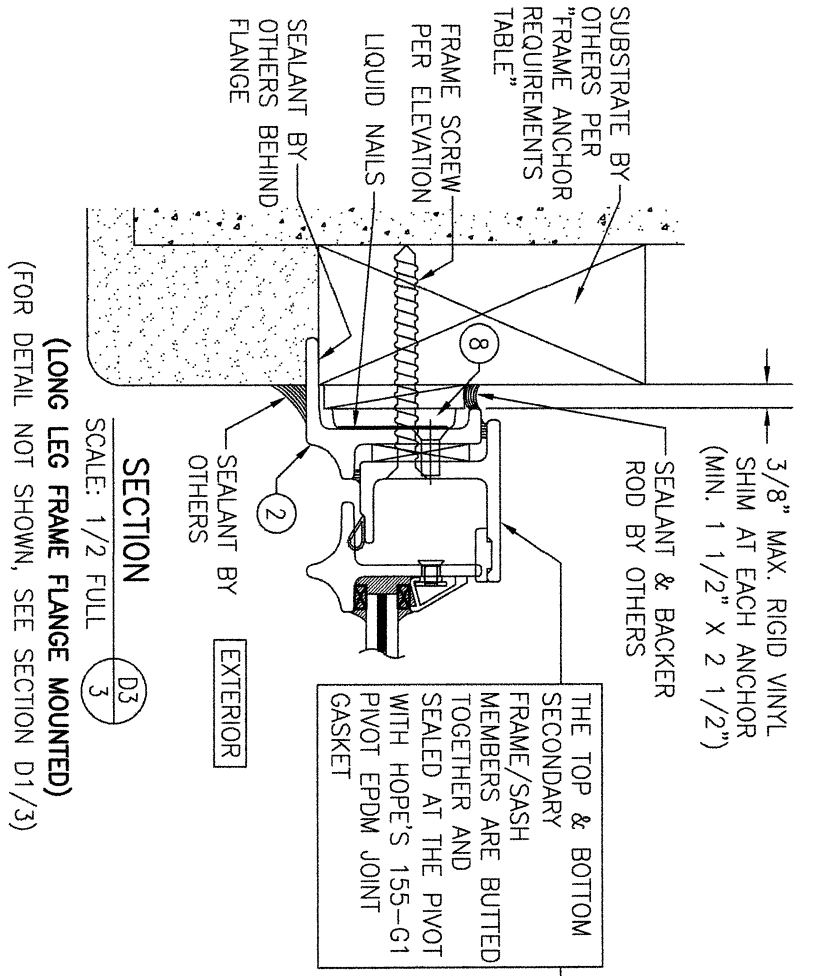
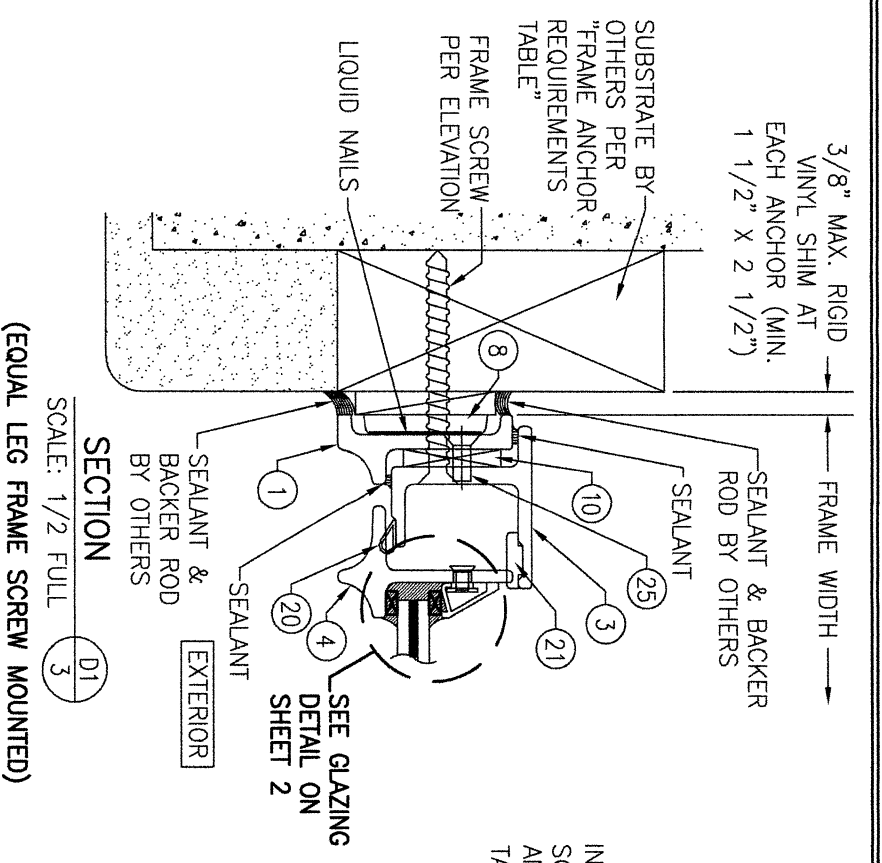
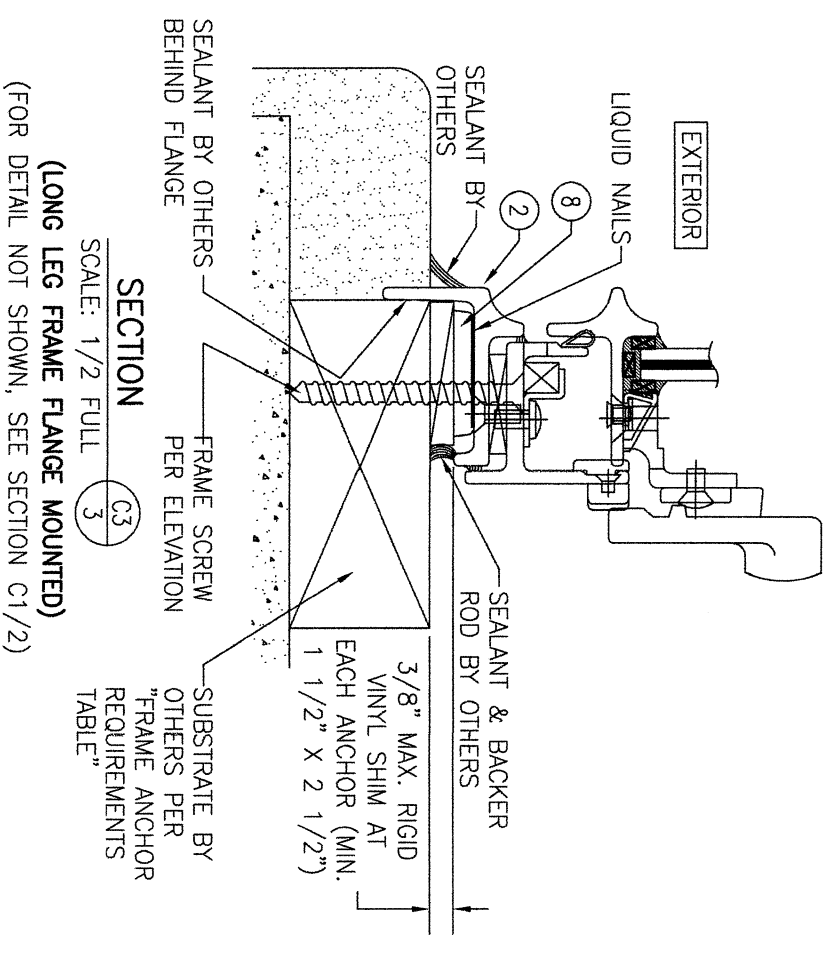
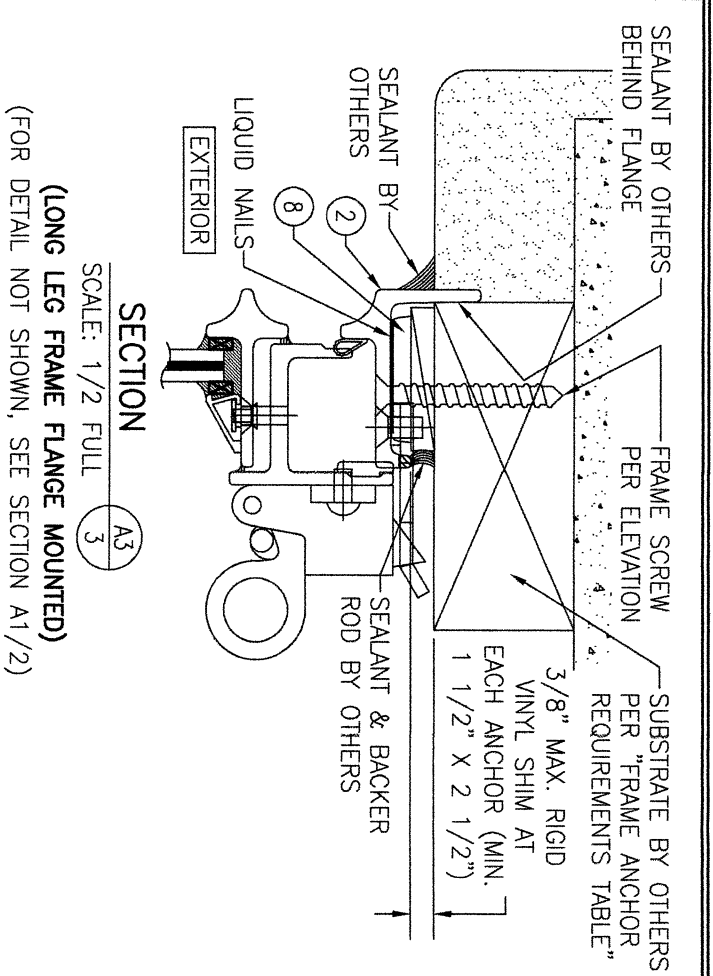


SECTION C2
SCALE: 1/2 FULL
(LONG LEG FRAME CLIP MOUNTED)
(FOR DETAIL NOT SHOWN, SEE SECTION C1/2)

DRAWN BY:		CHECKED BY:		
W.M.S.		W.M.S.		
PLOT:		DATE:		
1=2		12/11/19		
NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE	MANUFACTURER
ONE55 HORIZONTALLY PIVOTED IMPACT WINDOW	HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124
CONSULTANTS	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	

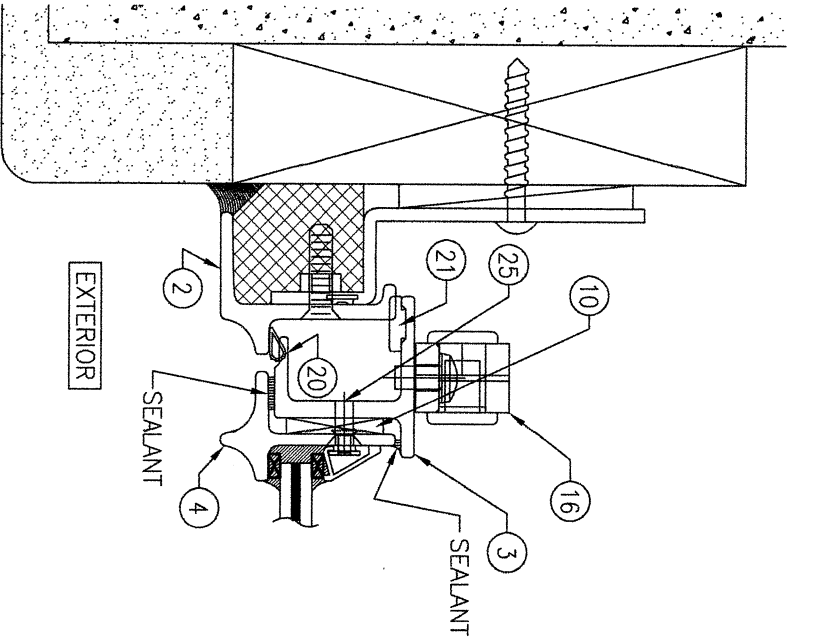
CERTIFICATION	DRAWING NO.	REV.
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	1967	A
	SHEET NO.	2 OF 4



NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE ONE55 HORIZONTALLY PIVOTED IMPACT WINDOW		DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424		MANUFACTURER HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124		PLOT: 1=2 DATE: 12/11/19	

CERTIFICATION WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1967		REV. A	
SHEET NO. 3		OF 4			

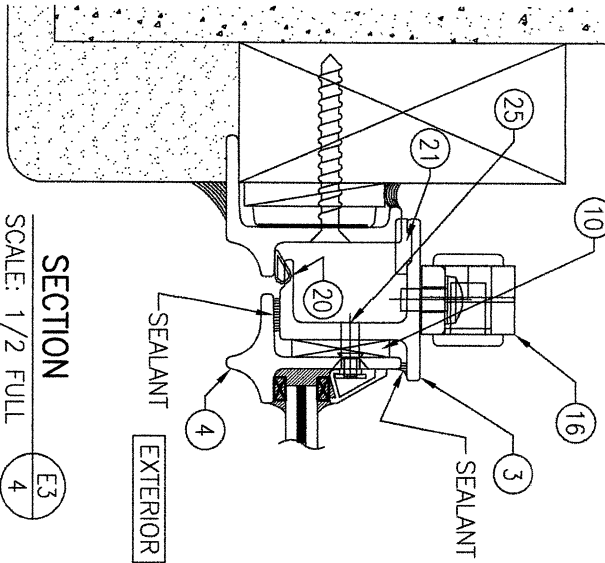


SECTION

SCALE: 1/2 FULL

(LONG LEG FRAME CLIP MOUNTED)

(FOR INSTALLATION & PRODUCT DETAIL NOT SHOWN, SEE SECTIONS D1/3 & D2/3)



SECTION

SCALE: 1/2 FULL

(LONG LEG FRAME FLANGE MOUNTED)

(FOR INSTALLATION & PRODUCT DETAIL NOT SHOWN, SEE SECTIONS D1/3 & D3/3)

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	EQUAL LEG FRAME	A36 STEEL
2	LONG LEG FRAME	A36 STEEL
3	SECONDARY FRAME/SASH	A36 STEEL
4	SASH	A36 STEEL
5	SASH & MUNTIN BAR	A36 STEEL
6	GLAZING BEAD	6063-T5 ALUMINUM
7	INSTALLATION CLIP	GALV. A36 STEEL
8	FIXING HOLE FILLER SHIM	RIGID VINYL
9	WEEP HOLE BAFFLE RETAINER	ALUMINUM (2 PER WINDOW)
10	1" X 1" X 3/16" VINYL SHIM	2 5/8" FROM D.L.O. CORNERS & MAX. 14" O.C.
HARDWARE		
14	SPRING CATCH	NO. 456
15	CAM FASTENER WITH WEDGE	NO. 60-2
16	PIVOT	NO. 155-P1
SEALS & SEALANTS		
20	EXTERIOR SELF ADHESIVE WEATHERSTRIP	HOPES H-638-D SILICONE
21	INTERIOR SELF ADHESIVE WEATHERSTRIP	HOPES 155-WSI EPDM SPONGE
FASTENERS		
24	2-PIECE GLAZING STUD WITH 6/32" X 1/4" MACHINE SCREW	2 1/2" FROM ENDS AND MAX. 14" O.C.
25	10-24 X 1/2" PFH SS MACHINE SCREW	WITHIN 2 5/8" OF D.L.O. CORNERS & MAX. 20" O.C.
26	10-24 X 3/8" PBH SS MACHINE SCREW	2 PER WEEP HOLE RETAINER

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).

FRAME SCREW PER ELEVATION & "FRAME ANCHOR REQUIREMENTS TABLE"

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE"

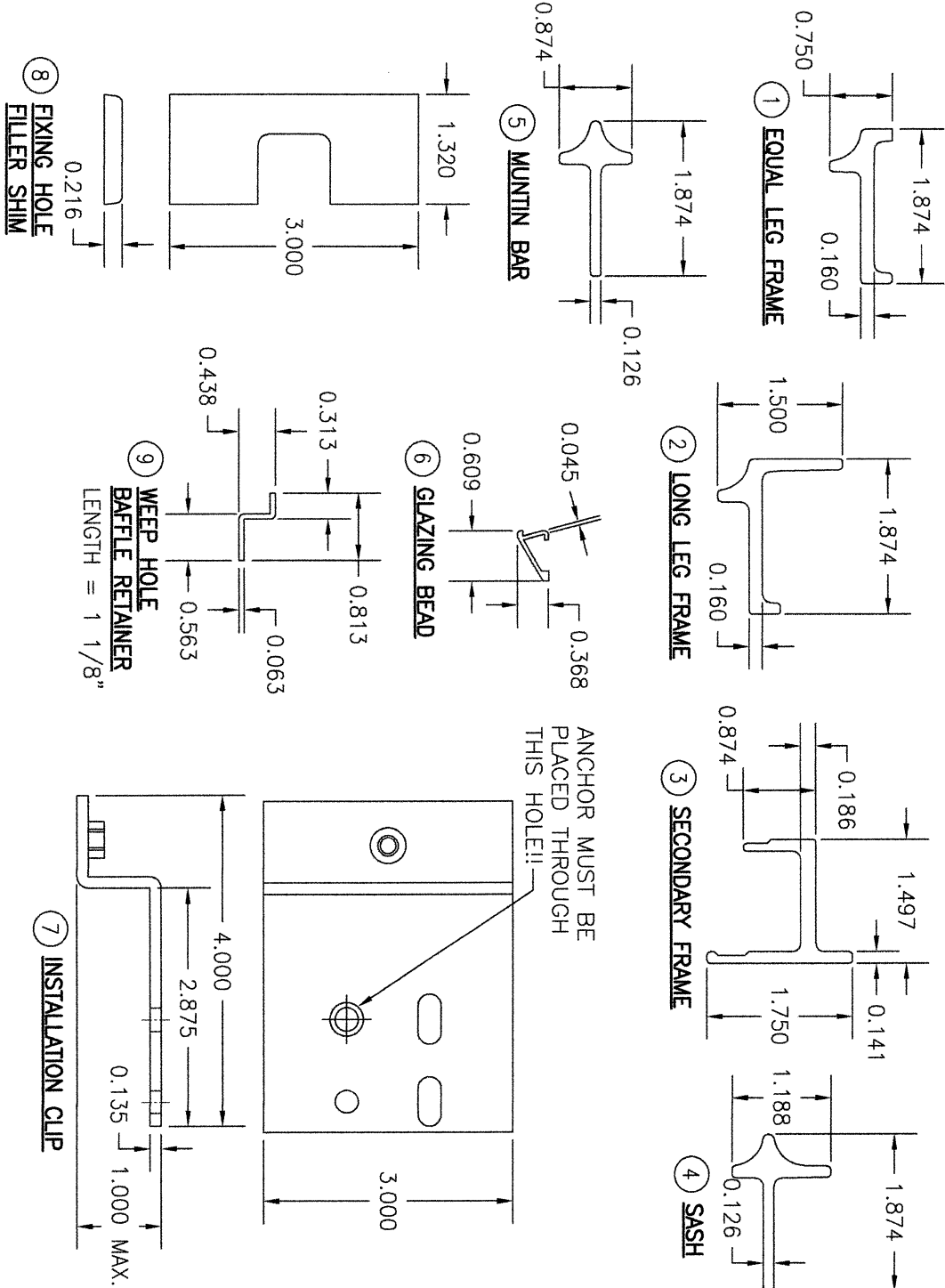
SHAVE OUT SECTION OF WOOD SPACER AS REQUIRED TO AVOID HARDWARE INTERFERENCE.

NOTE: FLANGE FRAME MOUNT CONDITION ALSO MAY APPLY TO THIS DIRECT MOUNT CONDITION.

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	PLOT: I=2	DRAWN BY: W.M.S.	CHECKED BY: W.M.S.
						DATE: 12/11/19	

DRAWING TITLE	
ONE55 HORIZONTALLY PIVOTED IMPACT WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124

CERTIFICATION	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1967	A
SHEET NO.	OF
4	4