

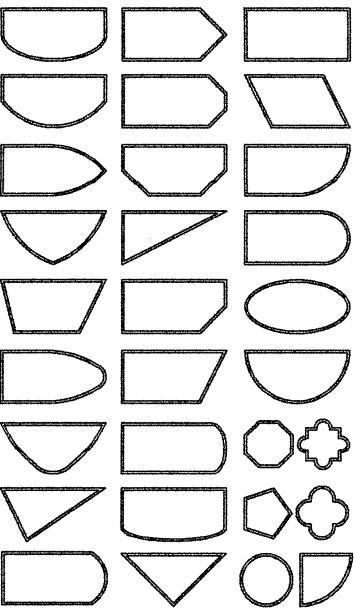
GENERAL NOTES:

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 Kd = 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.

CORNER CONSTRUCTION:

FRAME: MITER CUT, BUTTED AND FULLY WELDED

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.

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.

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"	1"
MIN. 16 GA. 50 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	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

SEE "CORNER
CONSTRUCTION"
DESCRIPTION
ON THIS SHEET

95 1/2" MAX. SHORT FRAME DIMENSION

7" MAX.

7" MAX.

ALLOWABLE DESIGN PRESSURE

+60/-60 PSF

NOTE: THESE WINDOWS ARE THE EXTRA LARGE VERSION OF HOPE'S DIRECT GLAZED WINDOWS. FOR HOPES STANDARD SIZE DIRECT GLAZE WINDOWS AND THEIR REQUIREMENTS, SEE DRAWING NO. 1699 UNDER SEPERATE APPROVAL.

MAX. D.L.O. = FRAME WIDTH - 2 7/8"

147 1/2" MAX. LONG FRAME DIMENSION
(LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL)

MAX. D.L.O. = FRAME HEIGHT - 2 7/8"

MAX. 10" O.C. WHEN INTO CMU; MAX. 12" O.C. WHEN INTO ALL OTHER SUBSTRATES SPECIFIED IN THE ANCHOR REQUIREMENTS TABLE (TYP. ALL SIDES)

FRAME SCREWS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS

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.

EXTERIOR ELEVATION:
SINGLE FIXED WINDOW

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

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.

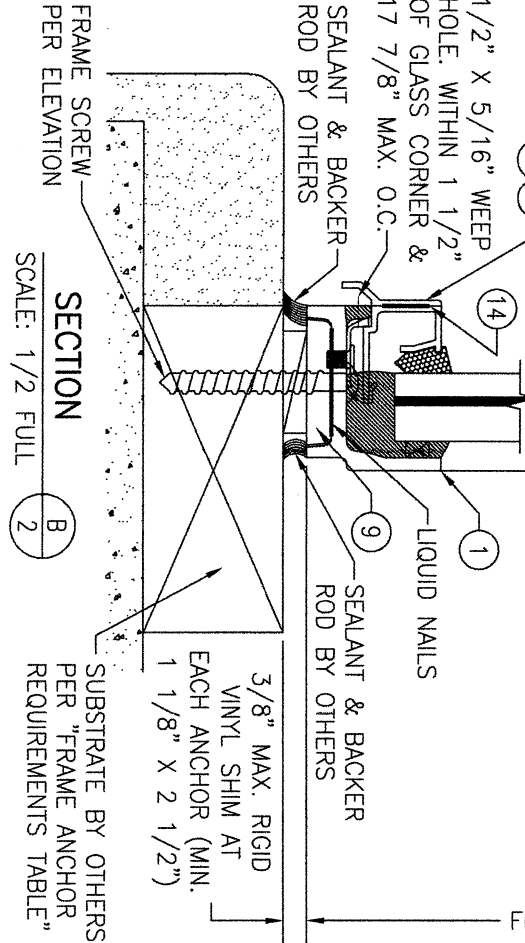
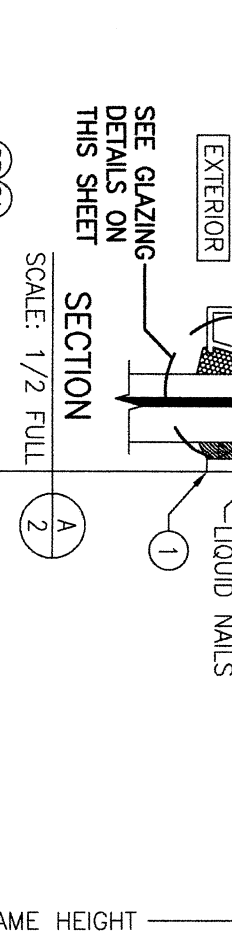
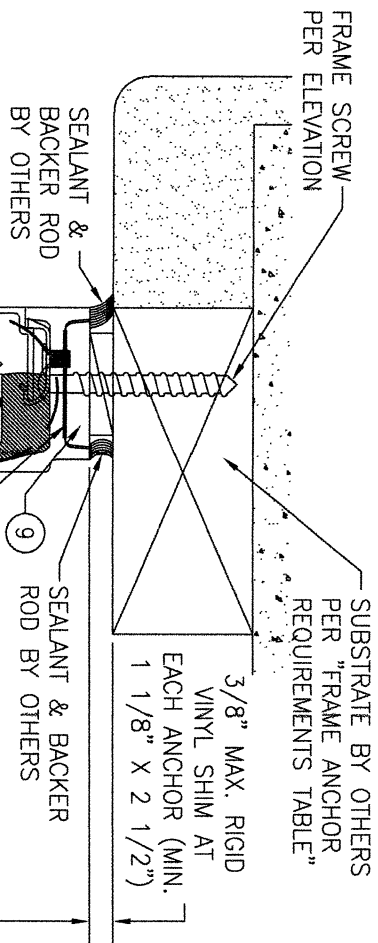


Digitally signed
by Warren W
Schaefer

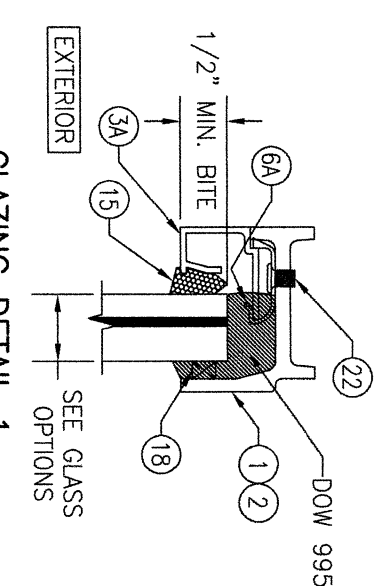
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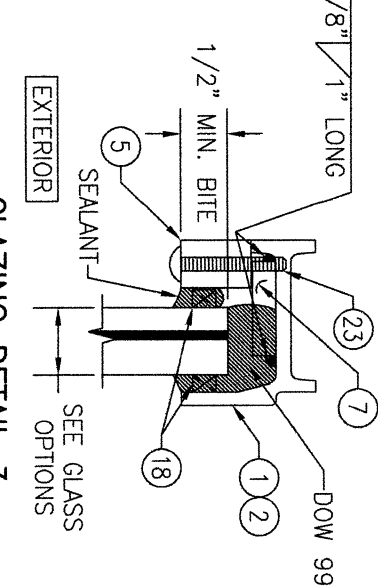
DRAWING NO. 1904 REV. A	SHEET NO. 1 OF 3	CERTIFICATION <
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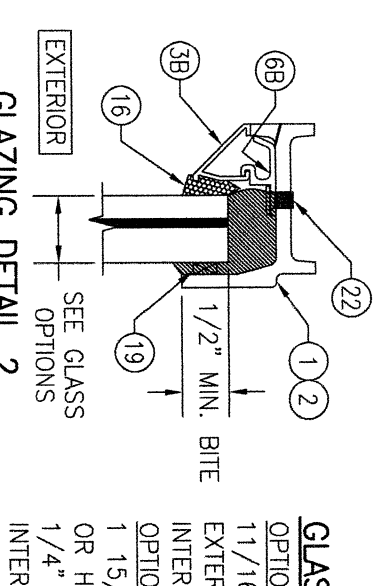
INSTALLATION SEALANT NOTE
FRAME TO OPENING SEALANTS ARE NOT PART OF THIS CERTIFICATION & ARE THE RESPONSIBILITY OF THE WINDOW INSTALLER.



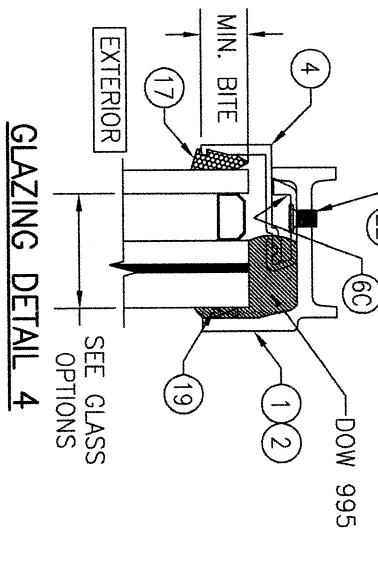
GLAZING DETAIL 1
(RECTANGULAR WINDOW, EXTERIOR GLAZED WITH NON-I.G. GLASS & STANDARD GLAZING BEAD)



GLAZING DETAIL 3
(RADIUS WINDOW EXTERIOR GLAZED WITH NON-I.G. GLASS)



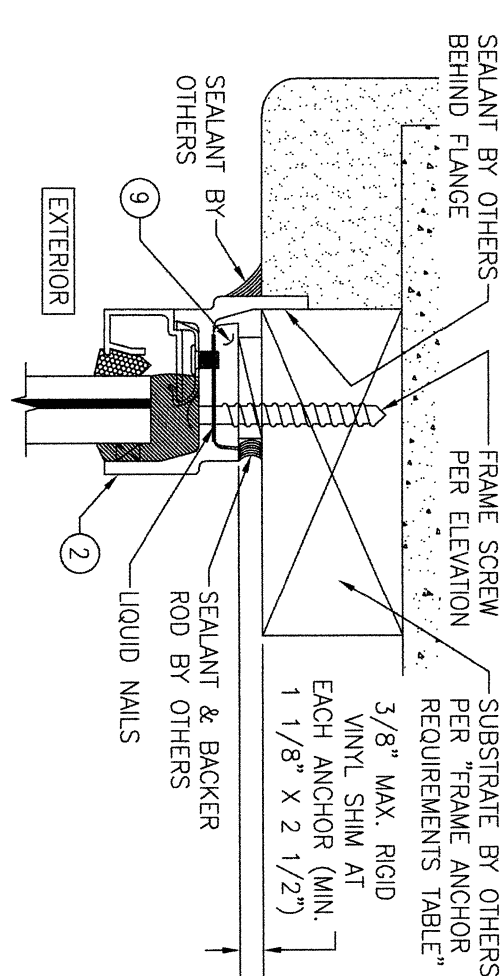
GLAZING DETAIL 2
(RECTANGULAR WINDOW, EXTERIOR GLAZED WITH NON-I.G. GLASS & SLOPED GLAZING BEAD)



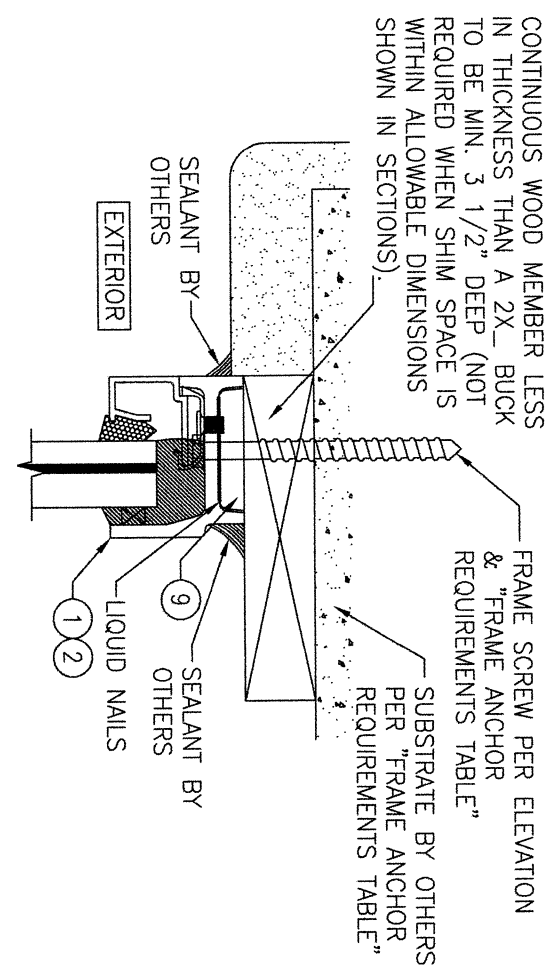
GLAZING DETAIL 4
(RECTANGULAR & RADIUS WINDOW, EXTERIOR GLAZED I.G. GLASS)

- GLASS OPTIONS**
- OPTION 1 (NON-I.G. GLASS EXTERIOR GLAZED):
1 1/16" LAMINATED GLASS (1/4" H.S.
EXTERIOR/0.09" KURARAY SG/3/8" H.S.
INTERIOR)
OPTION 2 (I.G. GLASS EXTERIOR GLAZED):
1 15/32" I.G. LAMINATED GLASS (1/4" TEMP.
OR H.S. EXTERIOR, 1/2" ALUMINUM SPACER &
1/4" H.S./0.09" KURARAY SG/3/8" H.S.
INTERIOR)

GLAZING NOTE: 1/2" X 3/4"
SILICONE SETTING BLOCKS ARE USED
AT BASE OF GLASS (2 PER WINDOW)



OPTIONAL FLANGE MOUNT DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(EXTERIOR GLAZED CONDITION SHOWN, INTERIOR GLAZED
CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



**OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER**
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(EXTERIOR GLAZED CONDITION SHOWN, INTERIOR
GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY:		CHECKED BY:		
W.M.S.		W.M.S.		
PLOT:	DATE:			
1=2	08/05/15			
NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE
EXTRA LARGE JAMESTOWN 175 STEEL SERIES DIRECT GLAZED IMPACT WINDOWS

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

CERTIFICATION

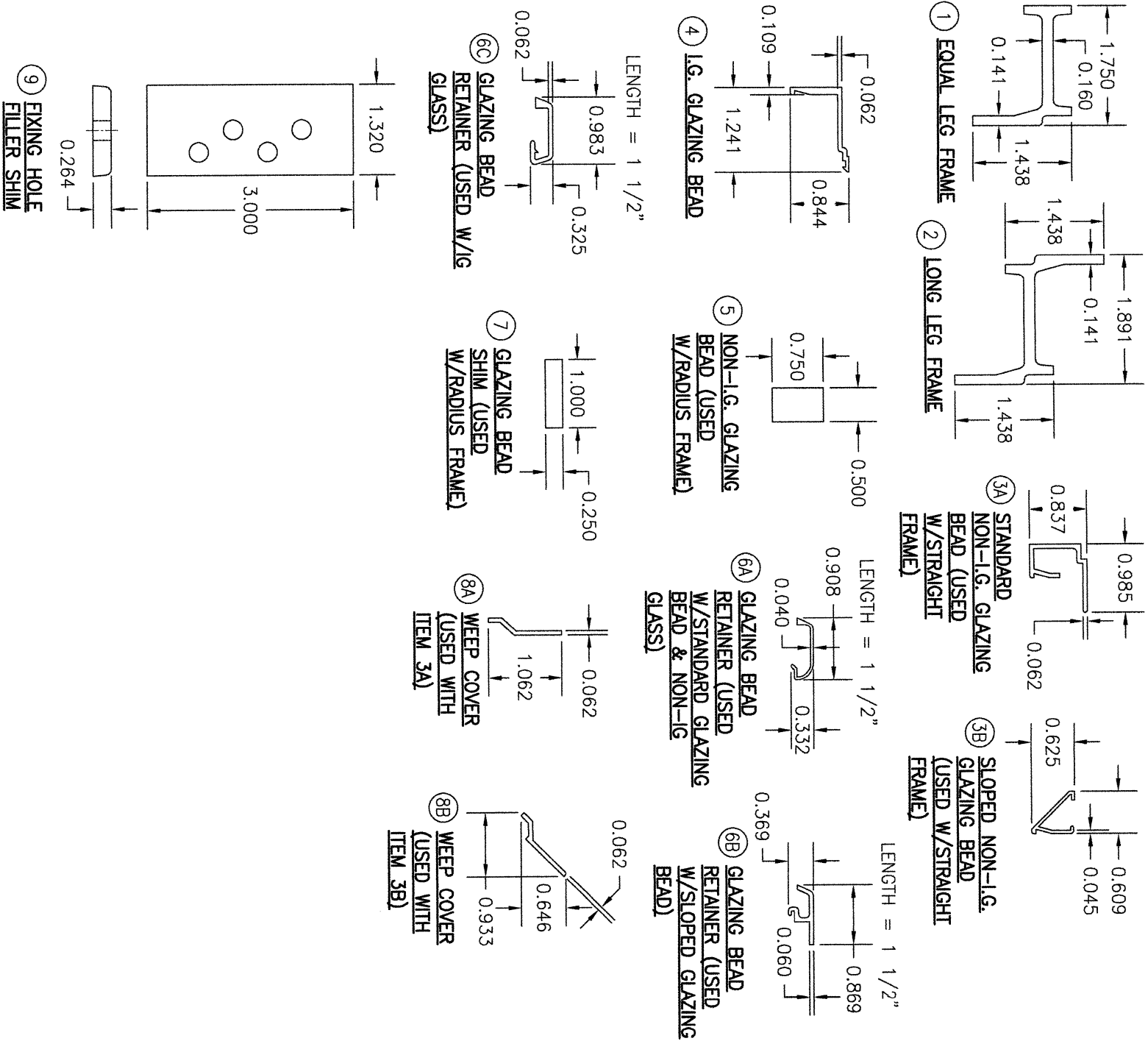
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.
1904

REV.
A

SHEET NO.
2 OF **3**

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	EQUAL LEG FRAME	A36 STEEL
2	LONG LEG FRAME	A36 STEEL
3A	STANDARD NON-I.G. GLAZING BEAD (STRAIGHT FRAME)	6063-T5 ALUMINUM
3B	SLOPED NON-I.G. GLAZING BEAD (STRAIGHT FRAME)	6063-T5 ALUMINUM
4	I.G. GLAZING BEAD	6063-T5 ALUMINUM
5	NON-I.G. GLAZING BEAD (RADIUS FRAME)	6063-T5 ALUMINUM
6A	GLAZING BEAD RETAINER	6063-T5 ALUMINUM
6B	GLAZING BEAD RETAINER	POSITIONED WITHIN 2 1/2" FROM D.L.O.
6C	GLAZING BEAD RETAINER	EDGE AND MAX. 16" O.C.
7	GLAZING BEAD SHIM (RADIUS FRAME)	A36 STEEL
8A	WEEP COVER (USED WITH ITEM 3A)	6063-T5 ALUMINUM
8B	WEEP COVER (USED WITH ITEM 3B)	6063-T5 ALUMINUM
9	FIXING HOLE FILLER SHIM	RIGID VINYL
SEALS & SEALANTS		
14	DOUBLE SIDED TAPE	3M VBH 4941 FOAM/ACRYLIC
15	GLAZING WEDGE (USED WITH NON-I.G. & STANDARD GLAZING BEAD)	TREMCO TR496E EPDM
16	GLAZING WEDGE (USED WITH SLOPED GLAZING BEAD)	TREMCO PS1125E EPDM
17	GLAZING WEDGE (USED WITH I.G. CONDITIONS)	TREMCO PS1125E EPDM
18	NON-I.G. GLAZING SHIM	TREMCO TR2178W EPDM
19	I.G. GLAZING SHIM	TREMCO TR1488W EPDM
FASTENERS		
22	10-24 X 1 1/4" S.S. SELF SEALING MACHINE SCREW	ONE PER GLAZING BEAD RETAINER
23	10-24 X 1 1/8" S.S. MACHINE SCREW	2 1/2" FROM D.L.O. EDGE & 16" MAX. O.C.



NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE	EXTRA LARGE JAMESTOWN 175 STEEL SERIES DIRECT GLAZED IMPACT WINDOWS
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

CERTIFICATION	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	1904
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OF	3