

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.

CORNER CONSTRUCTION:

FRAME: MITER CUT, BUTTED AND FULLY WELDED

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.

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: SILL 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.

LOCK REQUIREMENTS

CAM LOCKS	
CAM LOCKS MAY BE PLACED AT SILL ONLY (2 REQ'D PER WINDOW PLACED APPROXIMATELY 12 3/4" UP FROM SILL CORNER)	
KNIFE LOCKS	
KNIFE LOCKS MAY BE PLACED AT SILL OR SIDES (2 REQ'D PER WINDOW PLACED APPROXIMATELY 12 3/4" UP FROM SILL CORNER OR 7" IN FROM JAMB CORNER)	

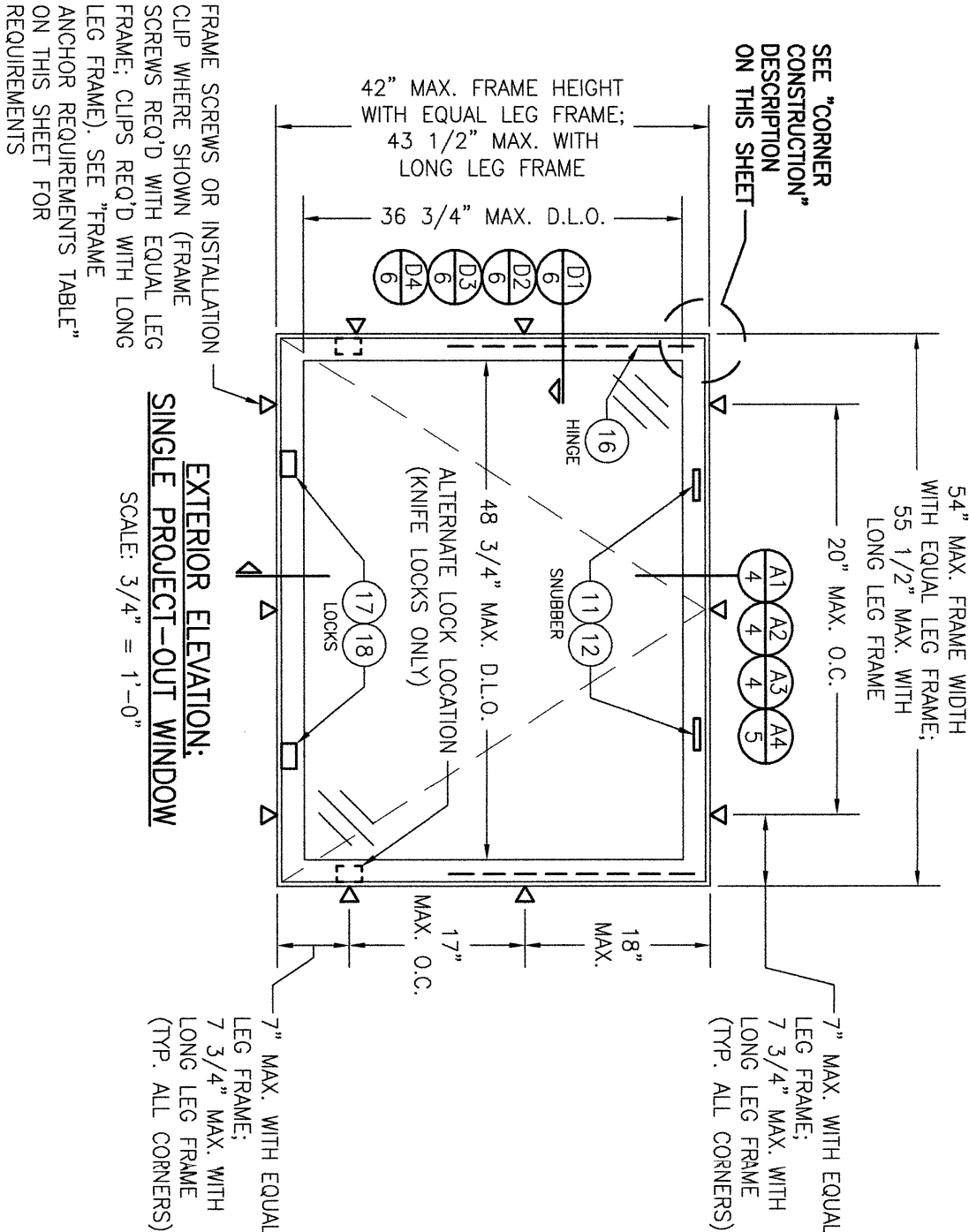
SNUBBER REQUIREMENTS

FRAME WIDTH	QUANTITY PER PANEL
OVER 27"	2
27" OR LESS	1

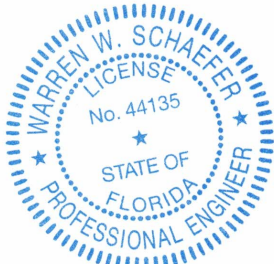
ALLOWABLE DESIGN PRESSURE (ALL WINDOWS)

KNIFE LOCKS AT SIDE JAMBS	KNIFE LOCKS AT SILL	CAM LOCKS AT SILL JAMBS
+/-65 PSF	+/-50 PSF	+/-65 PSF

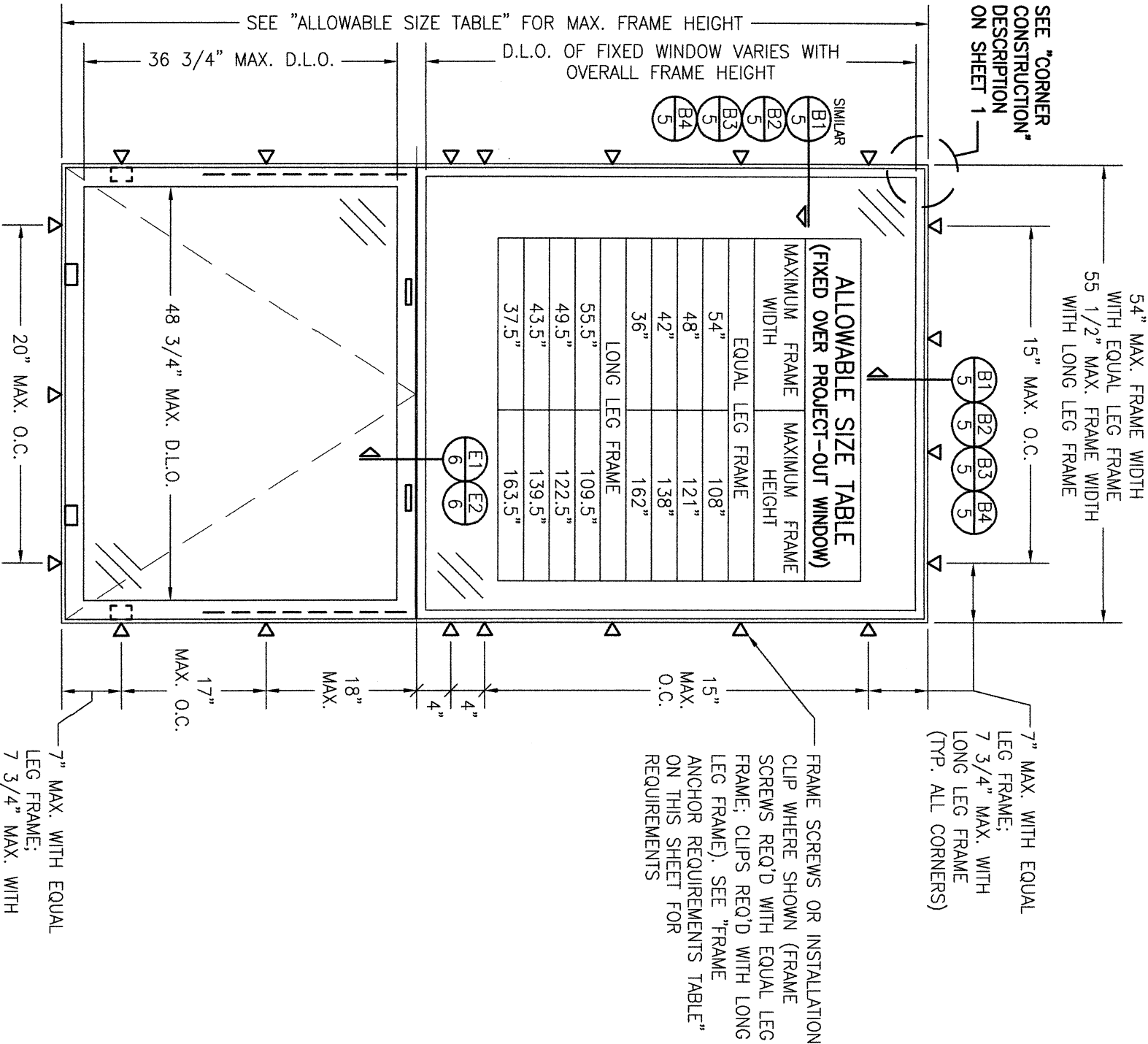
IF PROJECT-OUT WINDOW FRAME WIDTH IS 42" OR LESS OR FRAME HEIGHT IS 32" OR LESS, THE ALLOWABLE PRESSURE ON THE WINDOW, WHEN KNIFE LOCKS ARE USED AT THE SILL, MAY BE INCREASED TO +/-65 PSF (APPLICABLE TO ALL WINDOW ELEVATIONS).



Digitally signed by Warren W Schaefer
Date: 2024.09.05 08:36:17 -04'00'



DRAWING BY: W.W.S. CHECKED BY: W.W.S.																						
PLOT: 1-16	DATE: 09/16/10																					
<table><tr><th>NO.</th><th>REVISION</th><th>DESCRIPTION</th><th>BY</th><th>DATE</th></tr><tr><td>A1</td><td>UPDATE TO CURRENT STANDARDS</td><td>W.R.M.</td><td>08/17/11</td></tr><tr><td>B1</td><td>ADD INST. CLIP DIMENSIONS</td><td>W.R.M.</td><td>09/25/13</td></tr><tr><td>C1</td><td>UPDATE TO CURRENT STANDARDS</td><td>W.W.S.</td><td>12/10/14</td></tr><tr><td>D1</td><td>INCREASE SHIM SPACE</td><td>W.W.S.</td><td>09/04/24</td></tr></table>		NO.	REVISION	DESCRIPTION	BY	DATE	A1	UPDATE TO CURRENT STANDARDS	W.R.M.	08/17/11	B1	ADD INST. CLIP DIMENSIONS	W.R.M.	09/25/13	C1	UPDATE TO CURRENT STANDARDS	W.W.S.	12/10/14	D1	INCREASE SHIM SPACE	W.W.S.	09/04/24
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DRAWING TITLE EMPIRE BRONZE SERIES IMPACT PROJECT-OUT WINDOW																						
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. 1702 REV. D SHEET NO. 1 OF 8																						



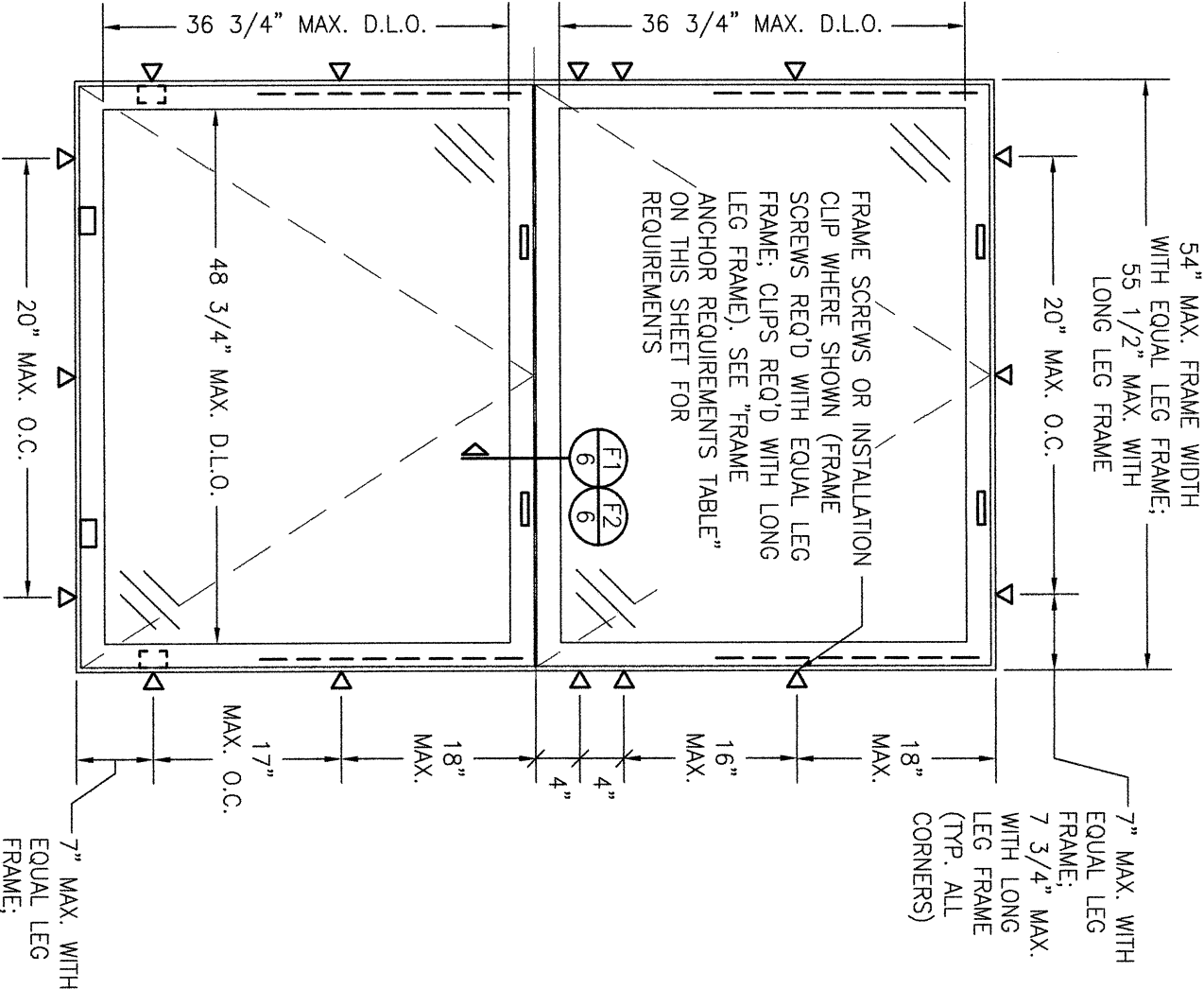
**EXTERIOR ELEVATION:
FIXED OVER PROJECT-OUT IN ONE FRAME**

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

(FOR DETAIL OF BOTTOM PROJECT-OUT WINDOW NOT SHOWN, SEE SINGLE WINDOW ELEVATION.

ELEVATION NOTES:

1. WHILE FIXED OVER PROJECT IS SHOWN, THE PROJECT WINDOW MAY BE EITHER ABOVE OR BELOW THE FIXED.
2. MORE THAN 2 WINDOWS MAY BE STACKED IN ONE FRAME PROVIDING EACH FIXED WINDOW IS SEPERATED BY A PROJECT WINDOW, THE PROJECT WINDOW'S D.L.O. DIMENSIONS DO NOT EXCEED THAT SHOWN, THE UNIT CAN BE SHIPPED & INSTALLED WITHOUT DAMAGE & THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS.



**EXTERIOR ELEVATION:
PROJECT-OUT OVER PROJECT-OUT IN ONE FRAME**

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

(FOR DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.

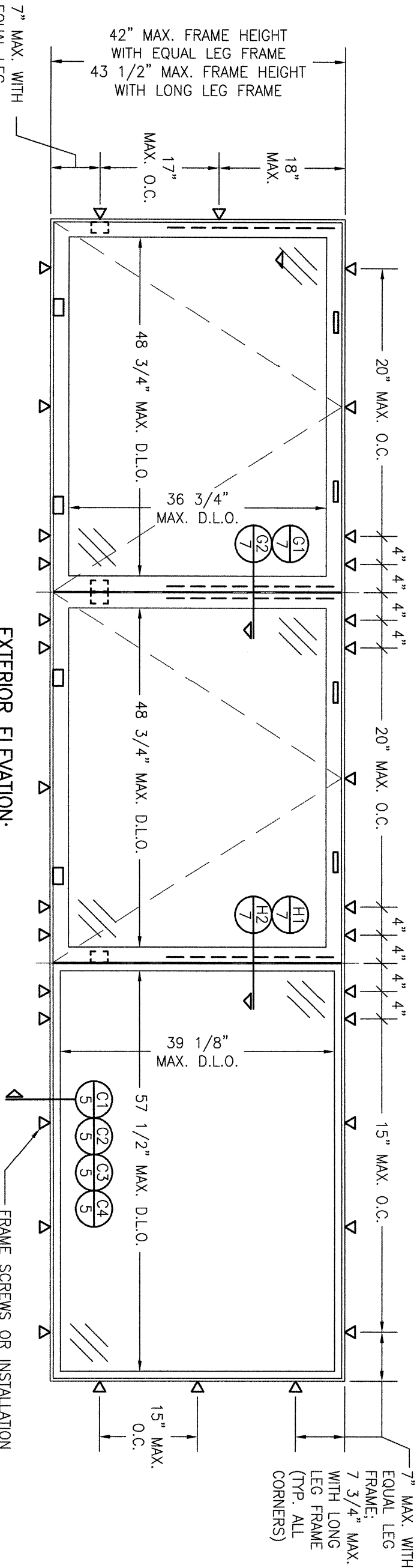
ELEVATION NOTE: MORE THAN 2 PROJECT-OUT WINDOWS MAY BE STACKED IN ONE FRAME PROVIDING EACH INDIVIDUAL WINDOW'S D.L.O. DIMENSIONS DO NOT EXCEED THAT SHOWN, THE UNIT CAN BE SHIPPED & INSTALLED WITHOUT DAMAGE & THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS.

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W.M.S.		W.M.S.		
PLOT:	1-16	DATE:	08/16/10	
NO.	REVISION	DESCRIPTION	BY	DATE

DRAWING TITLE	
EMPIRE BRONZE SERIES IMPACT PROJECT-OUT 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



7" MAX. WITH
EQUAL LEG
FRAME;
7 3/4" MAX.
WITH LONG
LEG FRAME
(TYP. ALL
CORNERS)

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

SIDE-BY-SIDE UNIT NOTES:

1. MORE THAN 2 WINDOWS MAY BE COMBINED HORIZONTALLY IN ONE FRAME PROVIDING EACH FIXED WINDOW IS SEPERATED BY A PROJECT WINDOW, THE D.L.O. DIMENSIONS DO NOT EXCEED THAT SHOWN, THE UNIT CAN BE SHIPPED & INSTALLED WITHOUT DAMAGE & THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE WINDOWS.
2. ANY COMBINATION OF FIXED/OPERABLE WINDOWS IN ONE FRAME SHALL APPLY.
3. FOR DETAIL NOT SHOWN, SEE SINGLE PROJECT-OUT WINDOW AND FIXED OVER PROJECT-OUT WINDOW ELEVATIONS.

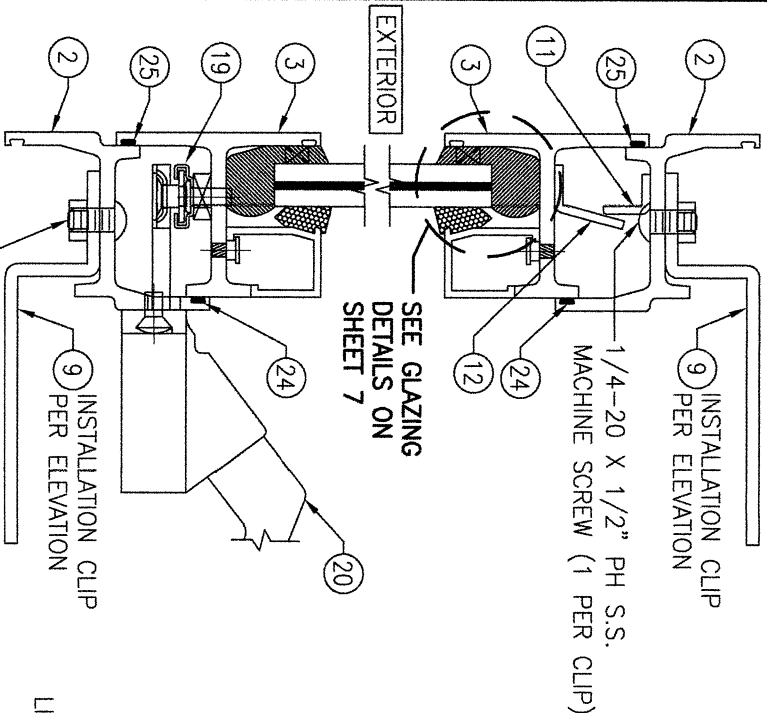
FRAME SCREWS OR INSTALLATION
CLIP WHERE SHOWN (FRAME
SCREWS REQ'D WITH EQUAL LEG
FRAME; CLIPS REQ'D WITH LONG
LEG FRAME). SEE "FRAME
ANCHOR REQUIREMENTS TABLE"
ON THIS SHEET FOR
REQUIREMENTS

7" MAX. WITH
EQUAL LEG
FRAME;
7 3/4" MAX.
WITH LONG
LEG FRAME
(TYP. ALL
CORNERS)

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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.
1702	D
SHEET NO.	OF
3	8



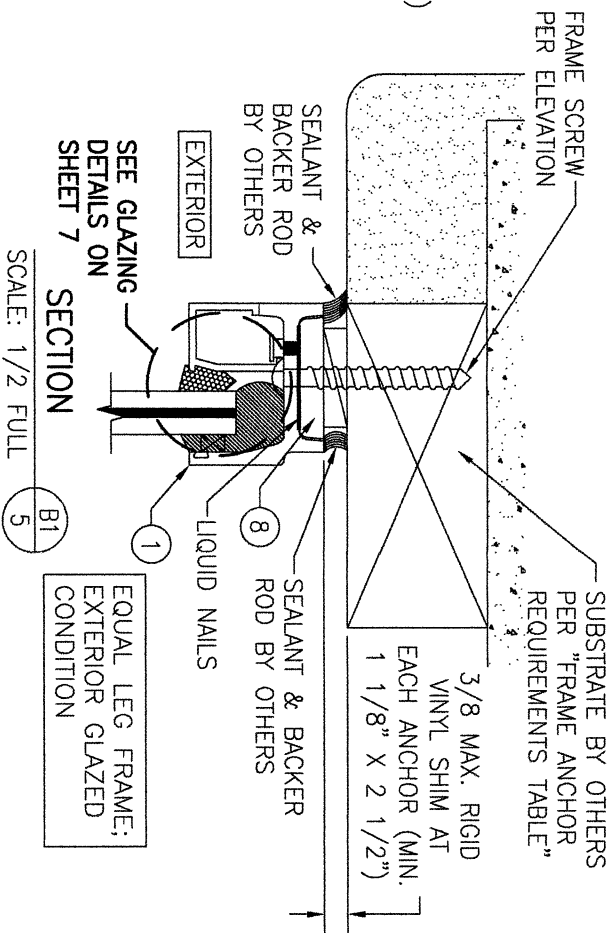
1/4-20 X 1/2" PH S.S. MACHINE SCREW (1 PER CLIP)

SECTION

SCALE: 1/2 FULL (A4/5)

(FOR INSTALLATION, SEE SECTION A2/4)

LONG LEG FRAME; INTERIOR GLAZED CONDITION

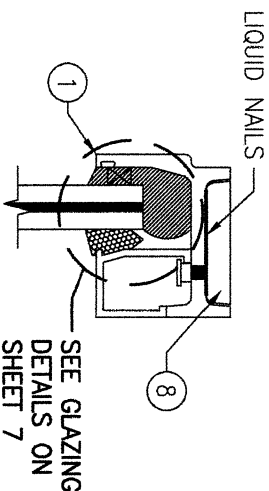


SCALE: 1/2 FULL (B1/5)

SECTION

SEE GLAZING DETAILS ON SHEET 7

EQUAL LEG FRAME; EXTERIOR GLAZED CONDITION

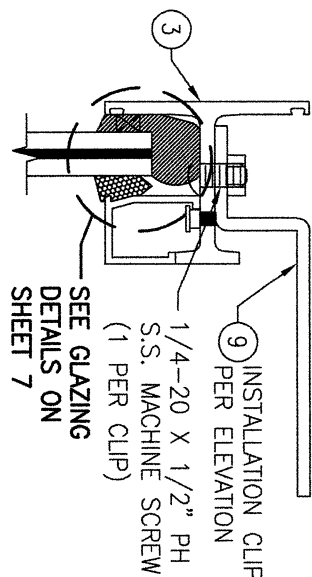


SECTION

SCALE: 1/2 FULL (B3/5)

(FOR INSTALLATION, SEE SECTION B1/5)

EQUAL LEG FRAME; INTERIOR GLAZED CONDITION

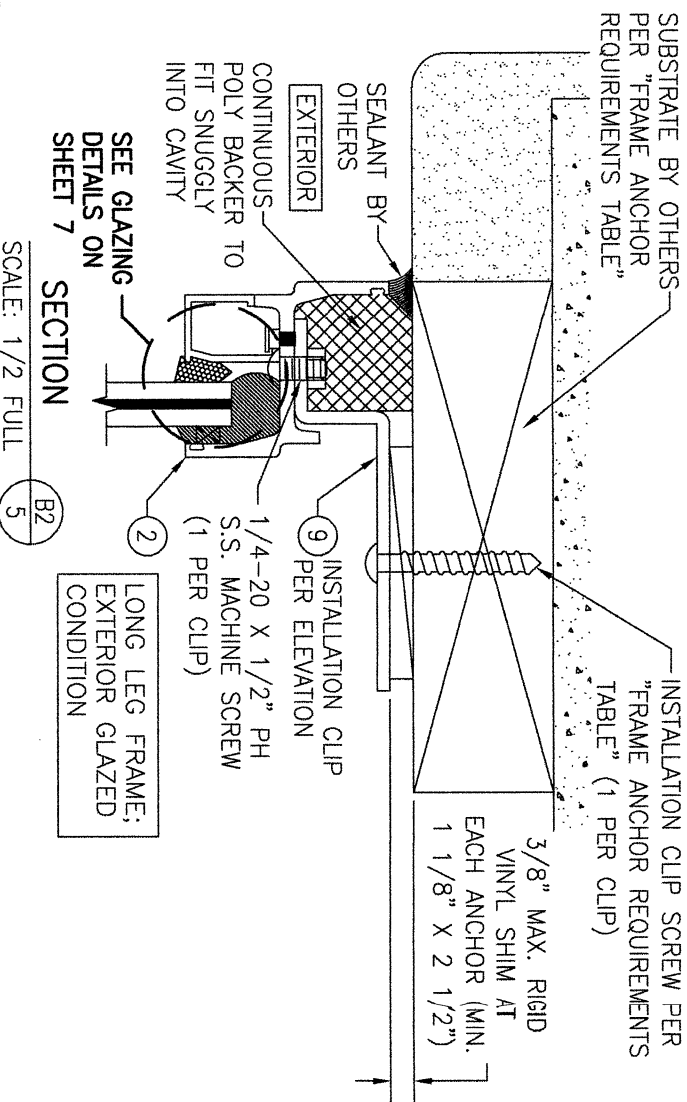


SECTION

SCALE: 1/2 FULL (B4/5)

(FOR INSTALLATION, SEE SECTION B2/5)

LONG LEG FRAME; INTERIOR GLAZED CONDITION

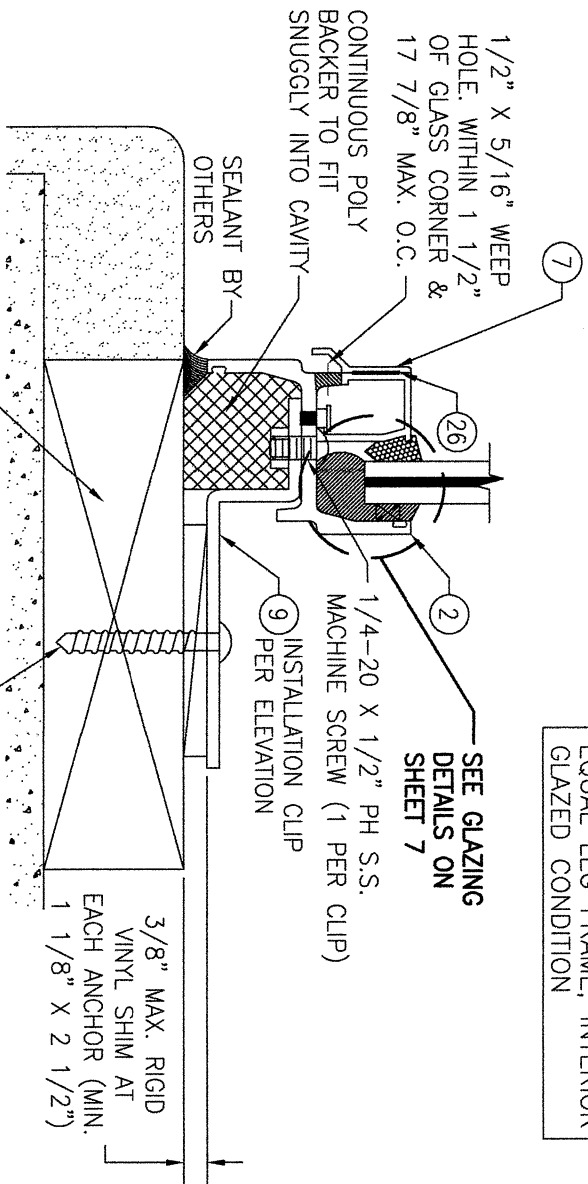


SCALE: 1/2 FULL (B2/5)

SECTION

SEE GLAZING DETAILS ON SHEET 7

LONG LEG FRAME; EXTERIOR GLAZED CONDITION

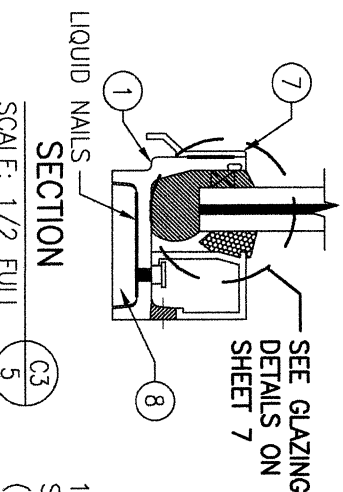


SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (1 PER CLIP)

SECTION

SCALE: 1/2 FULL (C2/5)

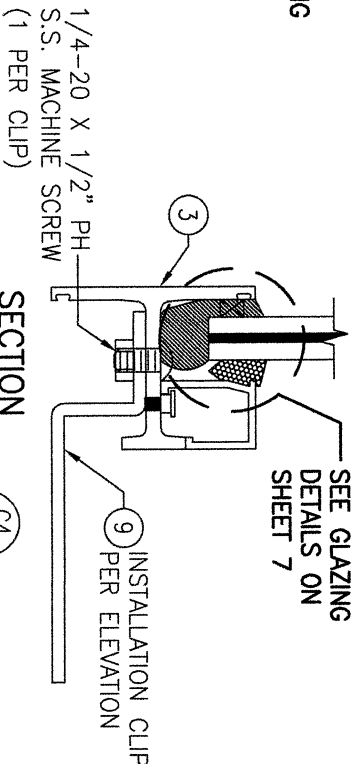
LONG LEG FRAME; EXTERIOR GLAZED CONDITION



SCALE: 1/2 FULL (C3/5)

(FOR INSTALLATION, SEE SECTION C1/5)

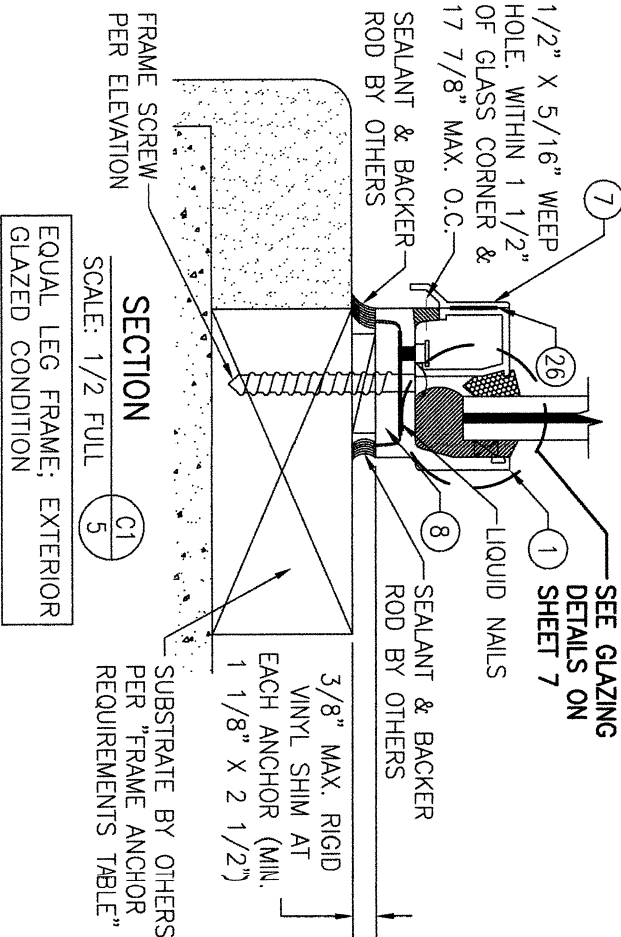
EQUAL LEG FRAME; INTERIOR GLAZED CONDITION



SCALE: 1/2 FULL (C4/5)

(FOR INSTALLATION, SEE SECTION C2/5)

LONG LEG FRAME; INTERIOR GLAZED CONDITION



SCALE: 1/2 FULL (C1/5)

SECTION

SEE GLAZING DETAILS ON SHEET 7

EQUAL LEG FRAME; EXTERIOR GLAZED CONDITION

CERTIFICATION

DRAWING TITLE
EMPIRE BRONZE SERIES IMPACT PROJECT-OUT WINDOWS

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

MANUFACTURER

HOPE'S WINDOWS, INC.
84 HOPKINS AVENUE
JAMESTOWN, NY 14702
(716) 665-5124

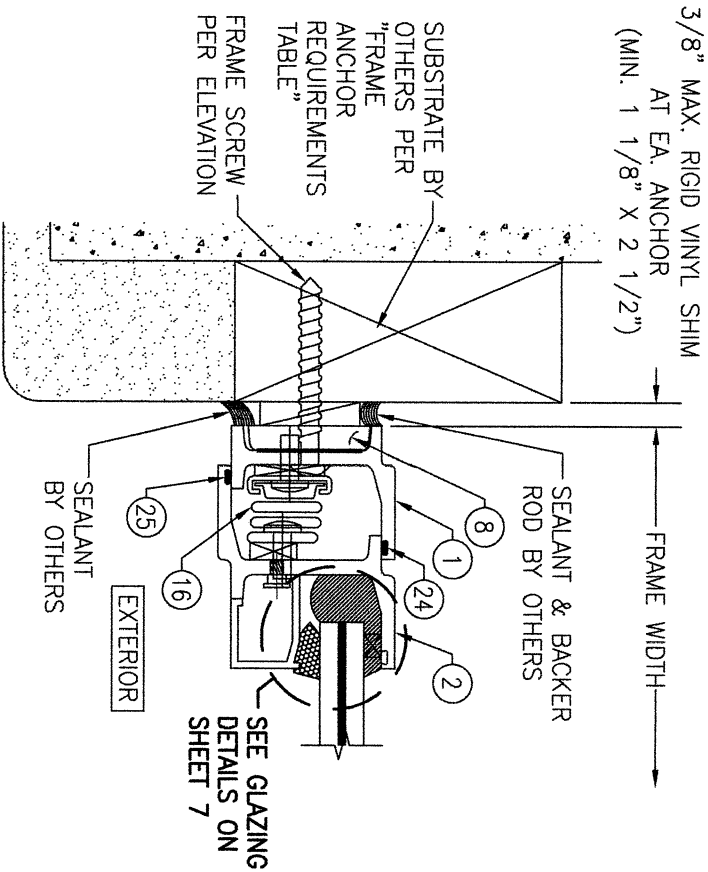
25601 AYSEN DRIVE
PUNTA GORDA, FL 33983
PHONE: 561-744-3424

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

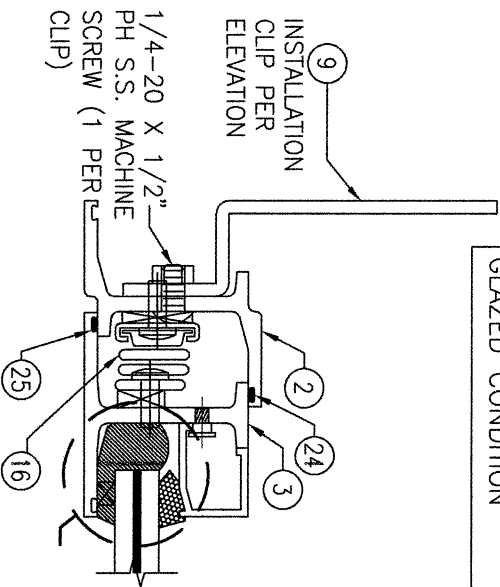
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DATE: 08/16/10

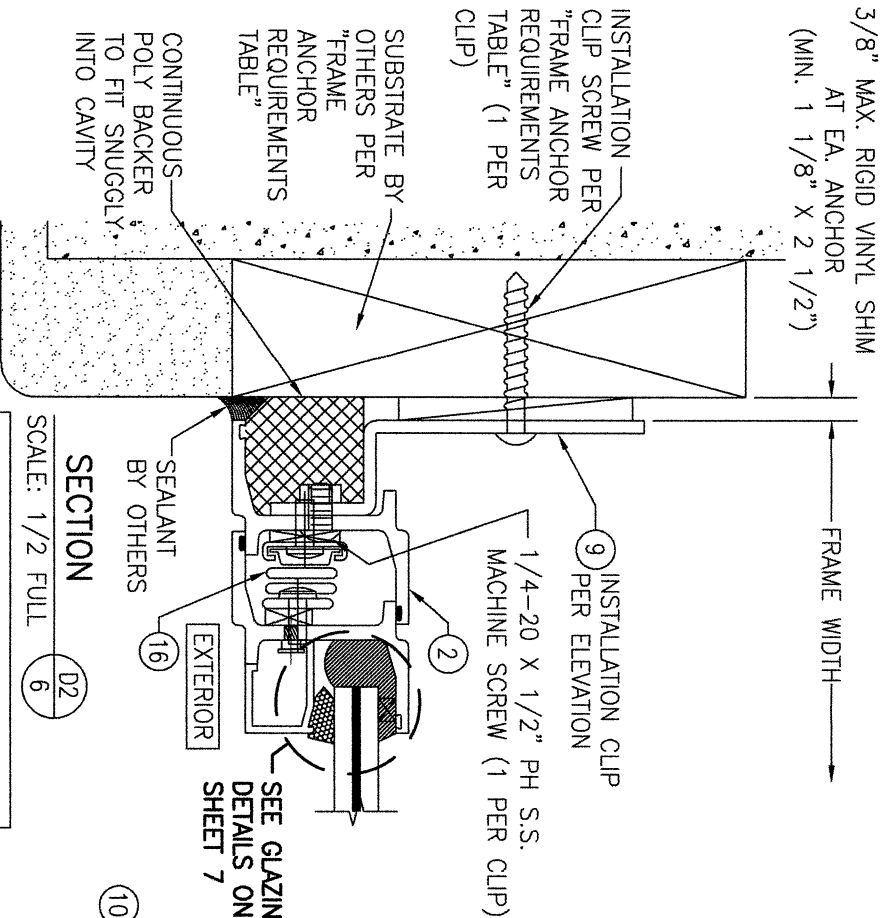
DRAWING NO. 1702
REV. D
SHEET NO. 5 OF 8



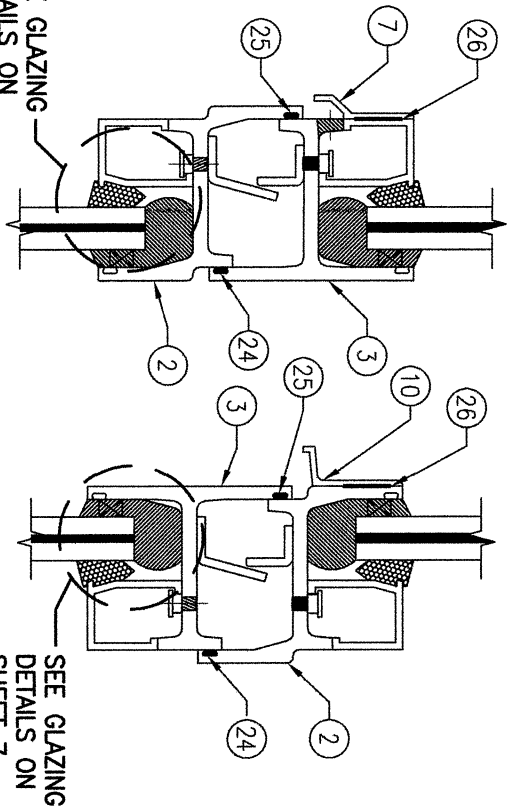
SECTION
SCALE: 1/2 FULL
D1
6
EQUAL LEG FRAME; EXTERIOR
GLAZED CONDITION



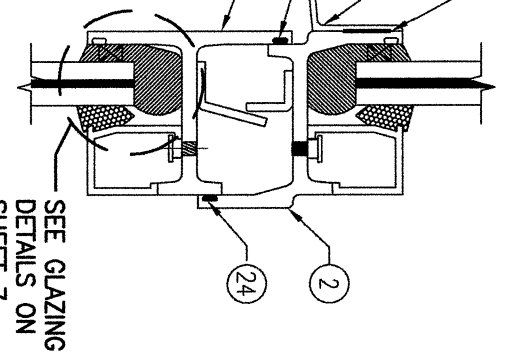
SECTION
SCALE: 1/2 FULL
D4
6
LONG LEG FRAME; INTERIOR
GLAZED CONDITION
(FOR INSTALLATION, SEE SECTION D2/6)



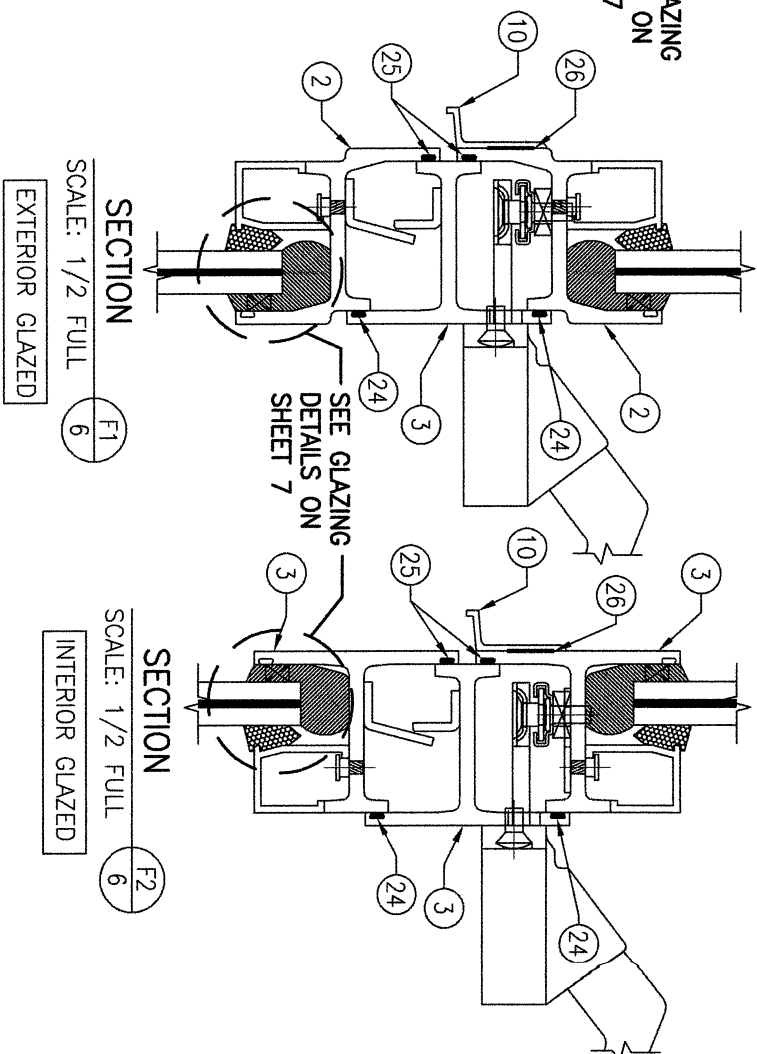
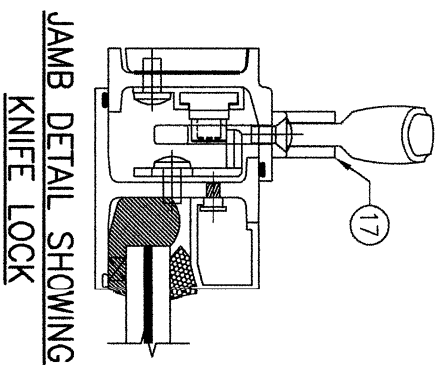
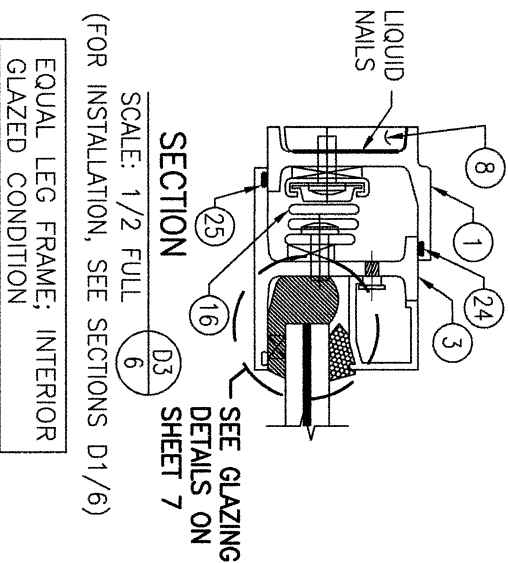
SECTION
SCALE: 1/2 FULL
D2
6
LONG LEG FRAME; EXTERIOR
GLAZED CONDITION



SECTION
SCALE: 1/2 FULL
E1
6



SECTION
SCALE: 1/2 FULL
E2
6



SECTION
SCALE: 1/2 FULL
F1
6

SECTION
SCALE: 1/2 FULL
F2
6

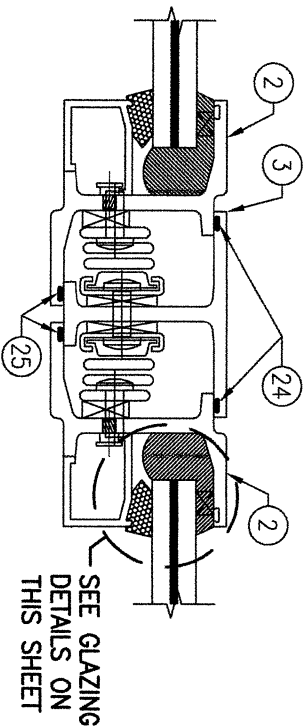
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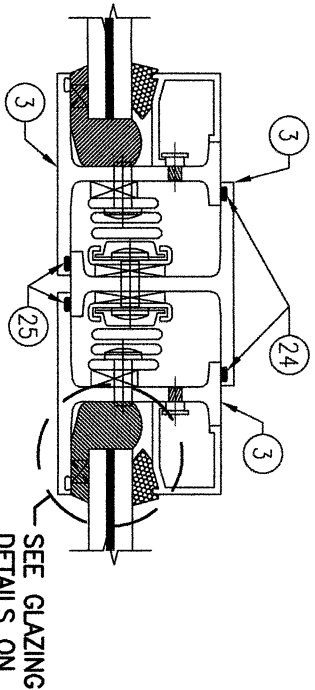
DRAWING TITLE EMPIRE BRONZE SERIES IMPACT PROJECT-OUT WINDOWS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 PHONE: 561-744-3424	MANUFACTURER HOPE'S WINDOWS, INC. 84 HOPKINS AVENUE JAMESTOWN, NY 14702 (716) 665-5124

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

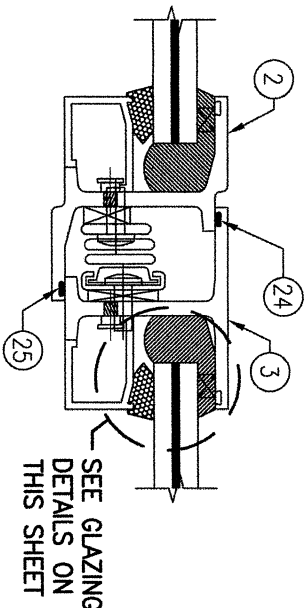
DRAWING NO. 1702	REV. D
SHEET NO. 6 OF 8	



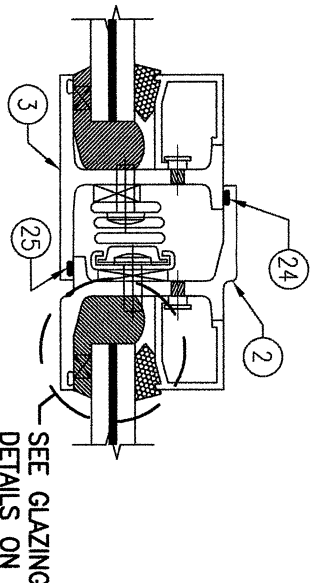
SECTION
SCALE: 1/2 FULL
G1
EXTERIOR GLAZED



SECTION
SCALE: 1/2 FULL
G2
INTERIOR GLAZED

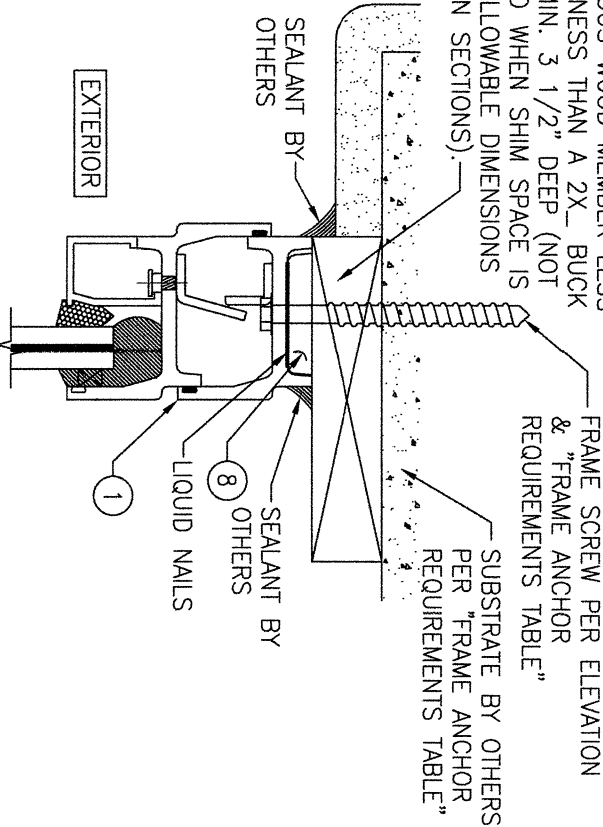


SECTION
SCALE: 1/2 FULL
H1
EXTERIOR GLAZED



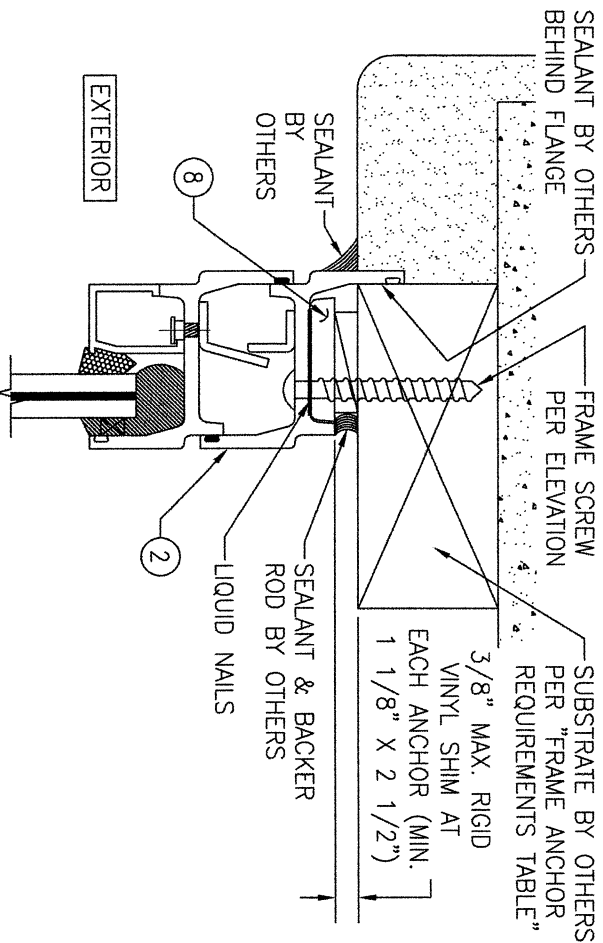
SECTION
SCALE: 1/2 FULL
H2
INTERIOR GLAZED

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).



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(PROJECT-OUT HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME. FIXED WINDOW ALSO INSTALLED THE SAME)
(EXTERIOR GLAZED CONDITION SHOWN. INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



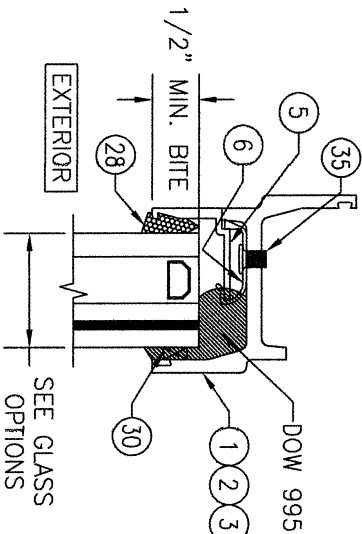
OPTIONAL FLANGE MOUNT DETAIL

(PROJECT-OUT HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME. FIXED WINDOW ALSO INSTALLED THE SAME)
(EXTERIOR GLAZED CONDITION SHOWN. INTERIOR GLAZED CONDITION ALSO APPLIES.)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

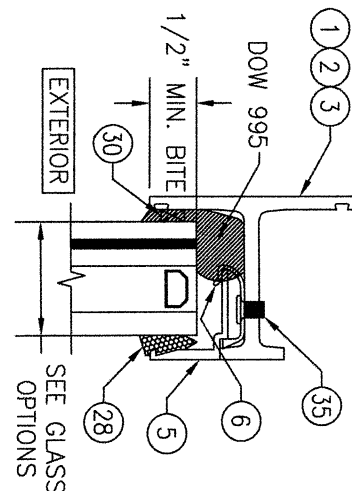
GLASS OPTIONS

- OPTION 1 (NON-I.G. GLASS INTERIOR OR EXTERIOR GLAZED):
7/16" LAMINATED GLASS (3/16" H.S./0.09" KURARAY SG/3/16" H.S.)
OPTION 2 (I.G. GLASS EXTERIOR GLAZED):
1 1/4" I.G. LAMINATED GLASS (1/4" TEMP. EXTERIOR, 1/2" ALUMINUM SPACER & 3/16" H.S./0.09" KURARAY SG/3/16" H.S. INTERIOR)
OPTION 3 (I.G. GLASS INTERIOR GLAZED):
1 1/4" I.G. LAMINATED GLASS (3/16" H.S./0.09" KURARAY SG/3/16" H.S. EXTERIOR, 1/2" ALUMINUM SPACER & 1/4" TEMP. INTERIOR)

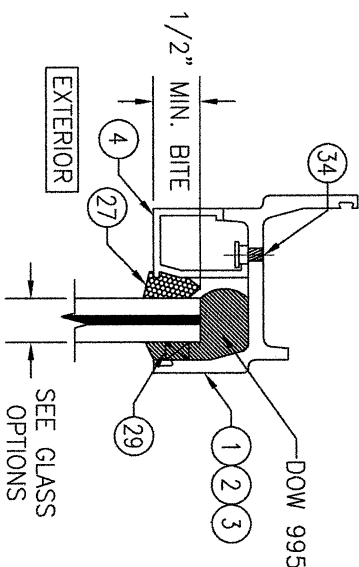
GLAZING NOTE: AT BASE OF GLASS, 4" LONG SILICONE SETTING BLOCKS SHALL BE PLACED AT MAX. 24" O.C. (QTY. OF 2 MIN.). WIDTH & THICKNESS OF BLOCKS SHALL BE AS REQUIRED TO MATCH THE GLASS SECTION THICKNESS AND DEPTH OF SPACE AT GLASS EDGE.



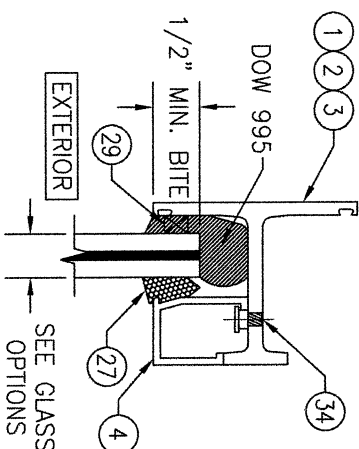
GLAZING DETAIL 3
(EXTERIOR GLAZED I.G. GLASS)



GLAZING DETAIL 4
(INTERIOR GLAZED I.G. GLASS)



GLAZING DETAIL 1
(EXTERIOR GLAZED WITH NON-I.G. GLASS)



GLAZING DETAIL 2
(INTERIOR GLAZED WITH NON-I.G. GLASS)

NO.	REVISION	DESCRIPTION	BY	DATE

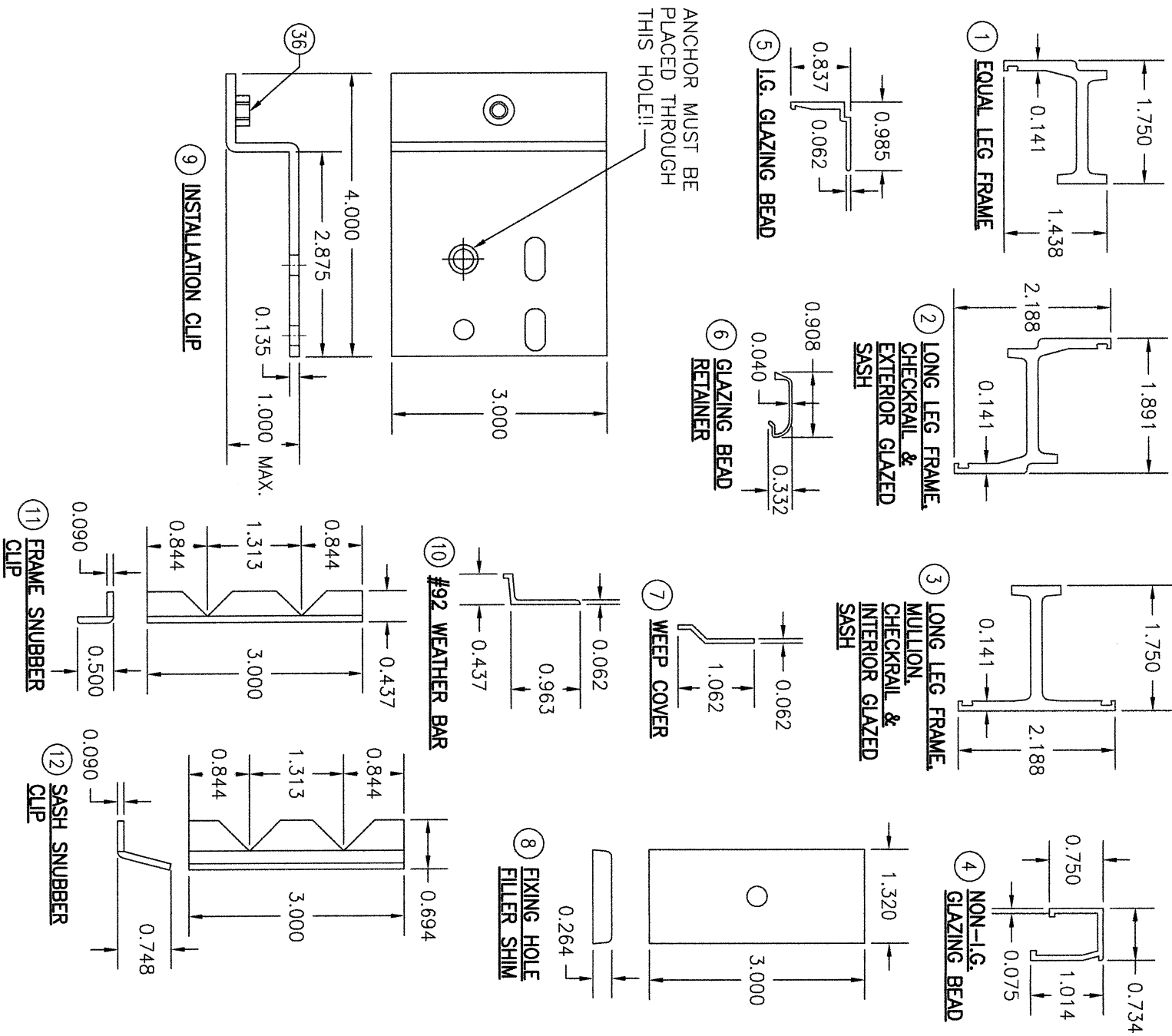
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W.M.S.	W.M.S.
DATE:	DATE:
08/16/10	

DRAWING TITLE	EMPIRE BRONZE SERIES IMPACT PROJECT-OUT WINDOWS
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
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.	1702
REV.	D
SHEET NO.	7 OF 8

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	EQUAL LEG FRAME	385 BRONZE
2	LONG LEG FRAME & EXTERIOR GLAZED SASH	385 BRONZE
3	MULLION & INTERIOR GLAZED SASH	385 BRONZE
4	NON-I.G. GLAZING BEAD	385 BRONZE
5	I.G. GLAZING BEAD	304 S.S., 6063-T5 ALUM OR 385 BRONZE
6	GLAZING BEAD RETAINER	304 S.S., 6063-T5 ALUM OR 280 BRONZE
7	WEEP COVER	6063-T5 ALUMINUM OR 280 BRONZE
8	FIXING HOLE FILLER SHIM	RIGID VINYL
9	INSTALLATION CLIP	10 GA. GALVANIZED STEEL
10	#92 WEATHER BAR	6063-T5 ALUMINUM OR 280 BRONZE
11	FRAME SNUBBER CLIP	BRONZE (HOPES PART #CTC-2)
12	SASH SNUBBER CLIP	BRONZE (HOPES PART #CTC-2)
HARDWARE		
16	4-BAR HINGE	HOPE'S PART NO. 328SG-4
17	SINGLE POINT KNIFE LOCK	HIOPE'S PART NO. 101A
18	SINGLE POINT CAM LOCK WITH KEEPERS	HOPE'S PART NO. 162 & 208-43
19	DUAL ARM ROTO OPERATOR	HOPE'S PART NO. 142
20	OPERATOR HANDLE	AS REQUIRED TO OPERATE WINDOW
SEALS & SEALANTS		
24	EPDM SPONGE WEATHERSTRIP	TREMCO TR11688E EPDM
25	VINYL LEAF BULB WEATHERSTRIP	HOPE'S PART NO. 797B
26	DOUBLE SIDED TAPE	3M VBH 4941 FOAM/ACRYLIC
27	GLAZING WEDGE (USED WITH NON-I.G. GLAZING)	TREMCO 496E EPDM
28	GLAZING WEDGE (USED WITH I.G. GLAZING)	TREMCO PS1125E EPDM
29	NON-I.G. GLAZING SHIM	TREMCO TR2178W EPDM
30	I.G. GLAZING SHIM	TREMCO TR1488W EPDM
FASTENERS		
34	6-32 X 1/4" S.S. HIGH COLLAR CAP SCREW	2 1/2" FROM D.L.O. EDGE & 12" MAX. O.C.
35	10-24 X 1/4" S.S. SELF SEALING MACHINE SCREW	2 1/2" FROM D.L.O. EDGE & 12" MAX. O.C.
36	1/4-20 SELF CLINCHING NUT INSERT	1 PER CLIP



DRAWING TITLE EMPIRE BRONZE SERIES IMPACT PROJECT-OUT 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

NO.	REVISION	DESCRIPTION	BY	DATE

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

DRAWING NO. 1702	REV. D
SHEET NO. 8 OF 8	