

1. THIS PRODUCT HAS BEEN TESTED 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 FRAME ANCHORS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN TESTED 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. UNLESS OTHERWISE SPECIFIED HERE-IN, PRODUCT ASSEMBLY AND ALL ASSEMBLY REQUIREMENTS/OPTIONS SHALL BE AS TESTED, ARE THE RESPONSIBILITY OF EACH THE MANUFACTURER AND THEIR APPLICABLE QUALITY ASSURANCE & ARE NOT THE RESPONSIBILITY OF THESE DOCUMENTS NOR THE CERTIFICATION OF THESE DOCUMENTS.
10. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.
11. 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 THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
12. 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.
13. 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.

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 FIN)

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 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. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	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"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	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.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) SCREWS USED WITH THE NAIL FIN MUST BE PAN OR WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.

Diagram illustrating the exterior elevation of a rectangular frame assembly. The overall dimensions and components are as follows:

- Overall Dimensions:**
 - Overall Width: 48 3/16" MAX. FRAME WIDTH
 - Overall Height: 36 3/16" MAX. FRAME HEIGHT
- Internal Spacing:**
 - Horizontal Spacing: 15" MAX. O.C. (On-Center)
 - Vertical Spacing: 29 7/8" MAX. D.L.O. (Distance to Last Offset)
- Internal Dimensions:**
 - Internal Width: 41 7/8" MAX. D.L.O.
- Components and Labels:**
 - SNUBBER:** Located at the top-left corner.
 - HINGE:** Located at the top-right corner.
 - LOCK:** Located at the bottom-left corner.
- Section Markers:**
 - A1/3:** Located at the top center.
 - B1/3:** Located on the left side.
- Other Dimensions:**
 - 6" MAX. (Top and bottom margins)
 - 6" MAX. (Right margin)

+65/-70 PSF

SNUBBERS: ONE (1) EACH SIDE OF WINDOW AT THE HEAD OF THE FRAME, 6 1/2" OFF CORNERS.

LOCKS: ONE (1) LOCK STRIKE EACH SIDE
OF WINDOW AT SIDES.

EXTERIOR ELEVATION:
SINGLE AWNING WINDOW

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

(FRAME SCREW OR CLIP MOUNT CONDITION)

—TYP. FRAME SCREWS OR
INSTALLATION CLIPS WHERE
SHOWN. SEE "FRAME
ANCHOR REQUIREMENTS
TABLE" ON THIS SHEET
FOR REQUIREMENTS.

Technical drawing of a rectangular frame assembly, likely for a table or sheet. The drawing shows a cross-section of the frame with various dimensions and labels.

Dimensions and Labels:

- 48 3/16" MAX. FRAME WIDTH**: Dimension across the top of the frame.
- 36 3/16" MAX. FRAME HEIGHT**: Dimension along the left side of the frame.
- 29 7/8" MAX. D.L.O.**: Dimension from the top edge of the frame to the center of the inner opening.
- 41 7/8" MAX. D.L.O.**: Dimension across the center of the inner opening.
- A2/3**: Label in a circle at the top center of the frame.
- B2/3**: Label in a circle on the left side of the frame.
- NAIL FIN**: Label pointing to the outer edge of the frame.
- FIN AND FRAME A REQUIRE TABLE C SHEET. WITHIN 2 CORNER: MAX. 4" ROOFING**: Text on the right side of the drawing.

FIN ANCHOR PER
FRAME ANCHOR
REQUIREMENTS
TABLE ON THIS
SHEET. POSITION
WITHIN 2" OFF
CORNERS & SPACE
MAX. 4" O.C. WITH
ROOFING NAILS OR
8" O.C. WITH NO.
8 SCREWS

EXTERIOR ELEVATION:
SINGLE AWNING WINDOW

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

(NAIL FIN MOUNT CONDITION)

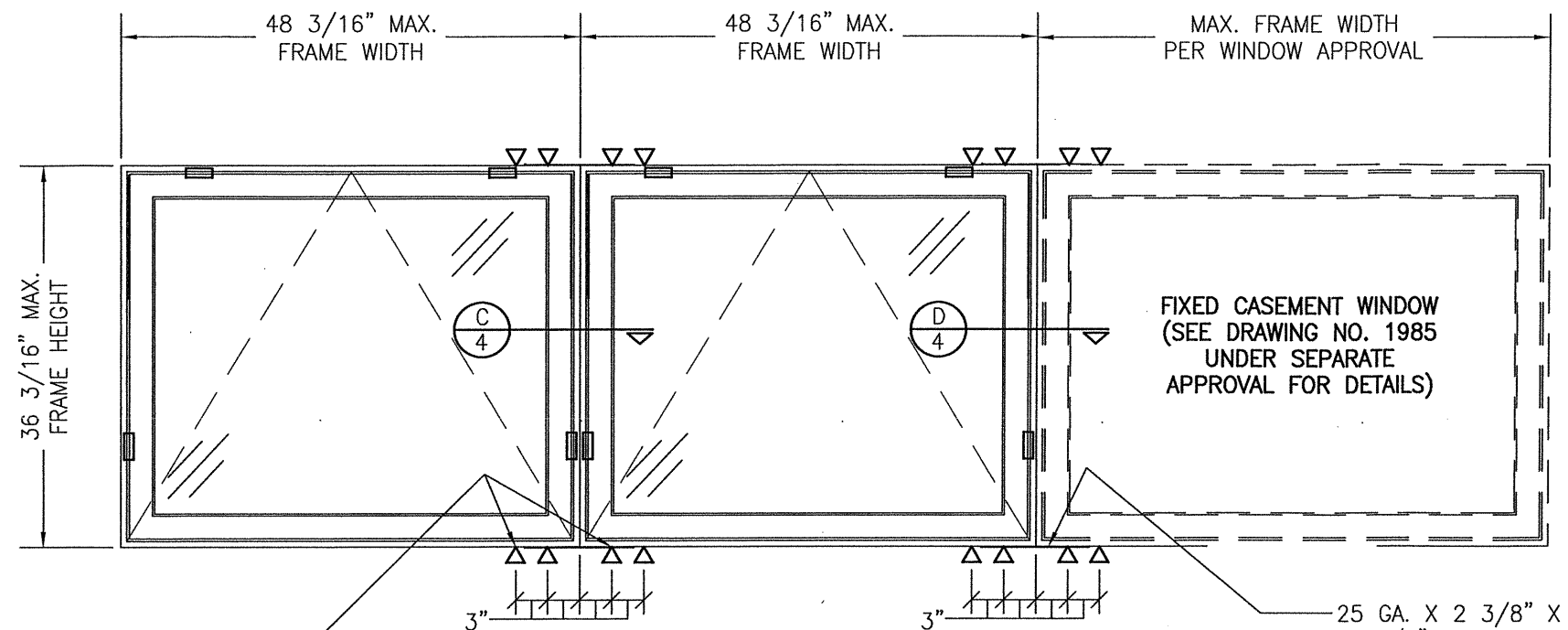
FOR INFORMATION NOT SHOWN, SEE FRAME
SCREW MOUNTED SINGLE WINDOW ELEVATION

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.

[illegible]



FRAME SCREWS OR —
INSTALLATION CLIPS PER
FRAME ANCHOR
REQUIREMENTS TABLE.
FOUR (4) TOTAL PER
MULLION END WHETHER
WINDOW IS SCREW, CLIP
OR FIN MOUNTED.

EXTERIOR ELEVATION;

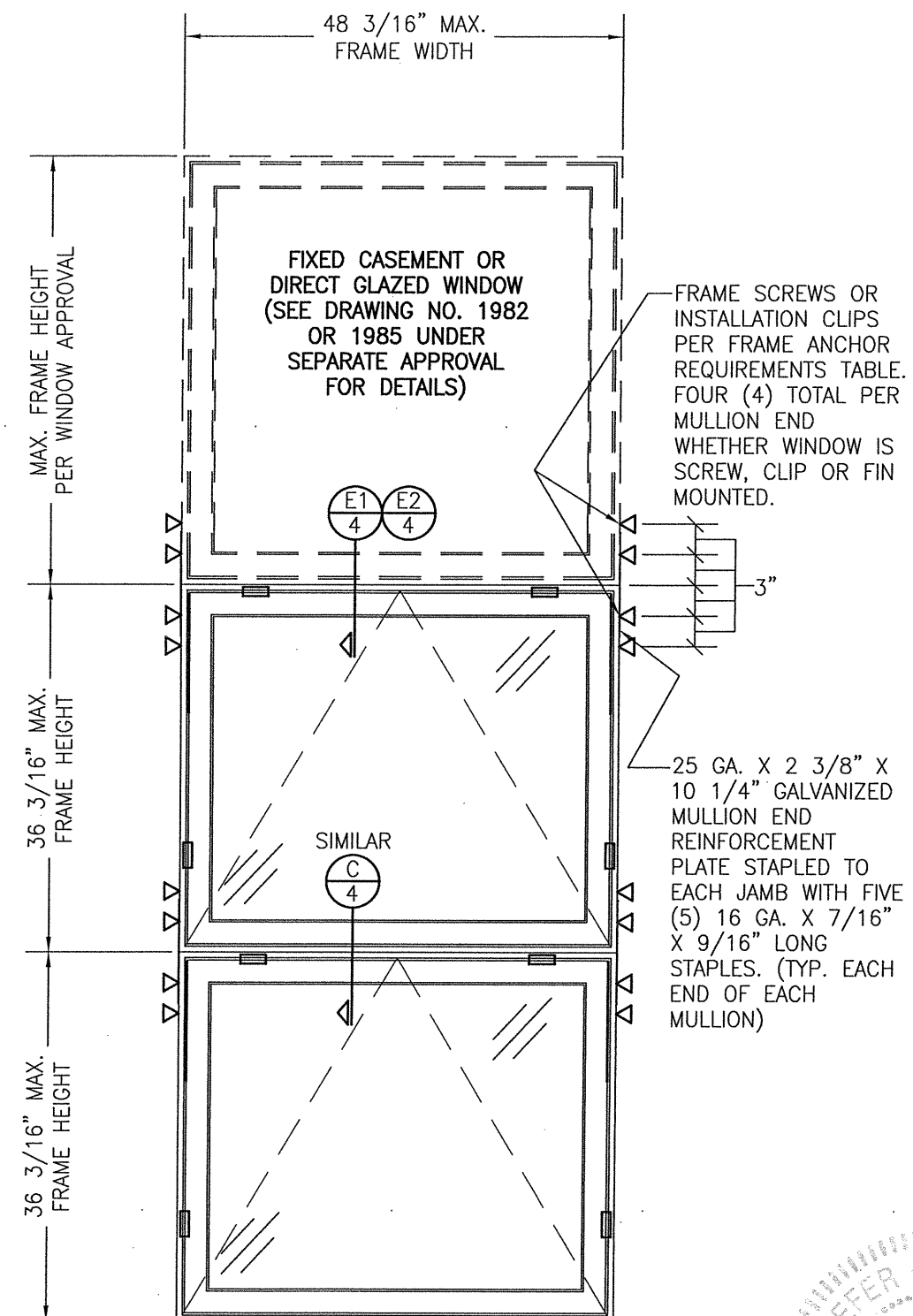
MULTIPLE OPERABLE/FIXED WINDOWS STACKED HORIZONTAL

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

(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)
(TRIPLE WINDOW SHOWN. MORE THAN 3 WINDOWS MAY BE COMBINED
HORIZONTALLY IN ONE OPENING IN ANY COMBINATION OF FIXED & OPERABLE)
NOTE: FOR FIXED TO FIXED, SEE DRAWING 1895 UNDER SEPARATE APPROVAL

FOR INFORMATION NOT SHOWN, SEE SINGLE
WINDOW ELEVATIONS ON SHEET 1

- 25 GA. X 2 3/8" X
10 1/4" GALVANIZED
MULLION END
REINFORCEMENT
PLATE STAPLED TO
EACH JAMB WITH
FIVE (5) 16 GA. X
7/16" X 9/16"
LONG STAPLES. (TYP.
EACH END OF EACH
MULLION)



— FRAME SCREWS OR
INSTALLATION CLIPS
PER FRAME ANCHOR
REQUIREMENTS TABLE.
FOUR (4) TOTAL PER
MULLION END
WHETHER WINDOW IS
SCREW, CLIP OR FIN
MOUNTED.

—25 GA. X 2 3/8" X
10 1/4" GALVANIZED
MULLION END
REINFORCEMENT
PLATE STAPLED TO
EACH JAMB WITH FIVE
(5) 16 GA. X 7/16"
X 9/16" LONG
STAPLES. (TYP. EACH
END OF EACH
MULLION)

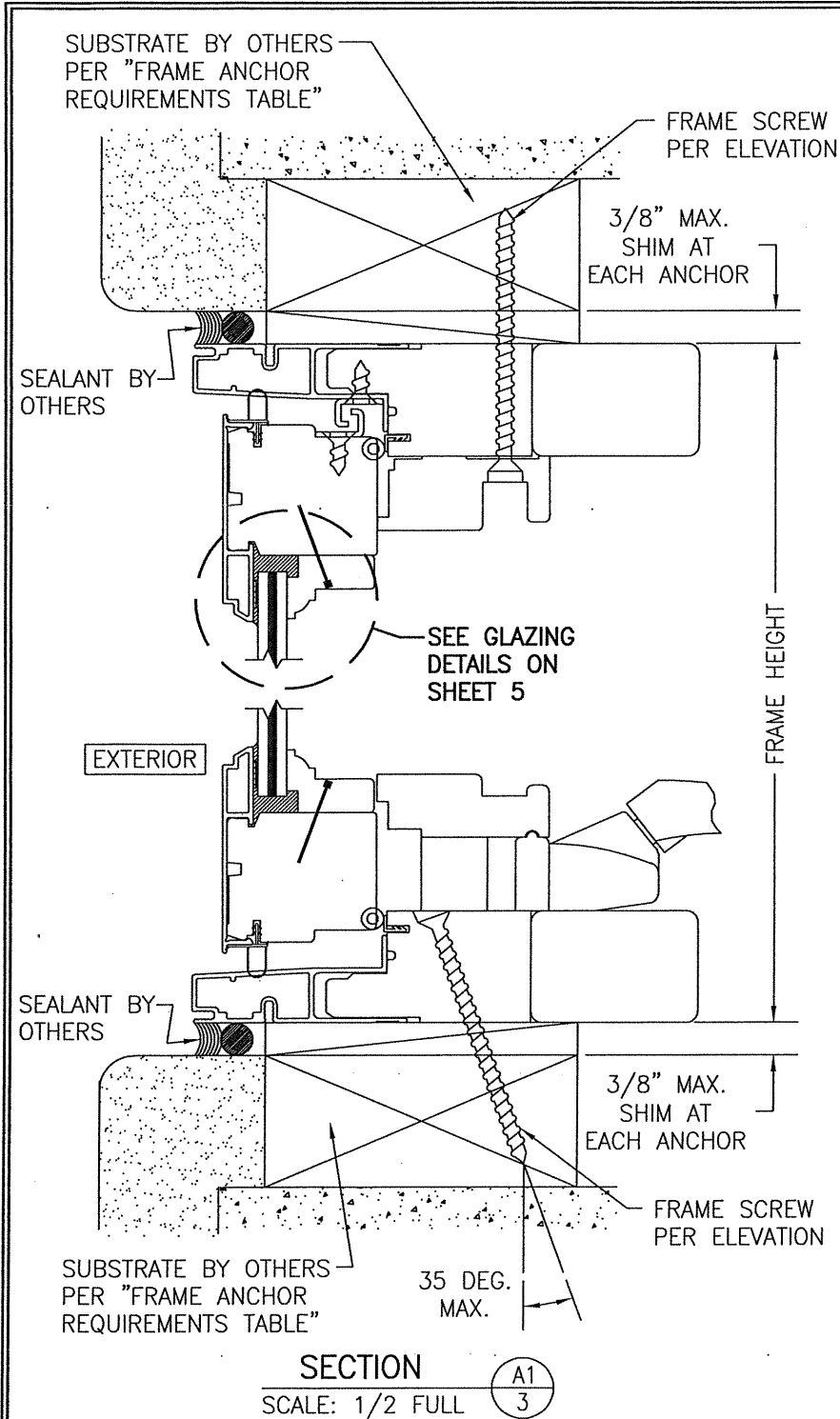
EXTERIOR ELEVATION:
MULTIPLE OPERABLE/FIXED WINDOWS
STACKED VERTICAL

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

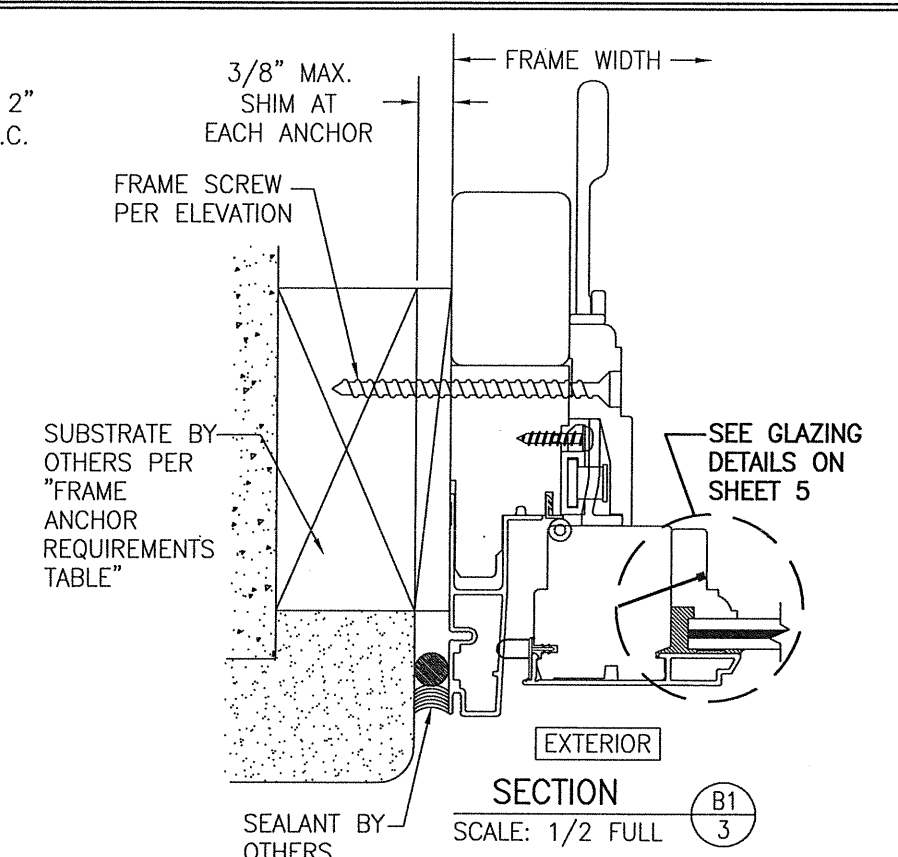
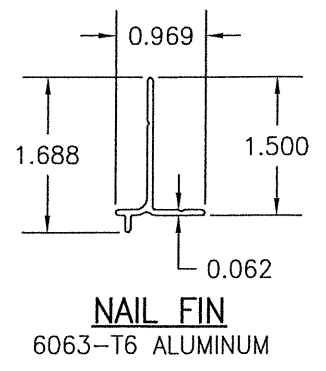
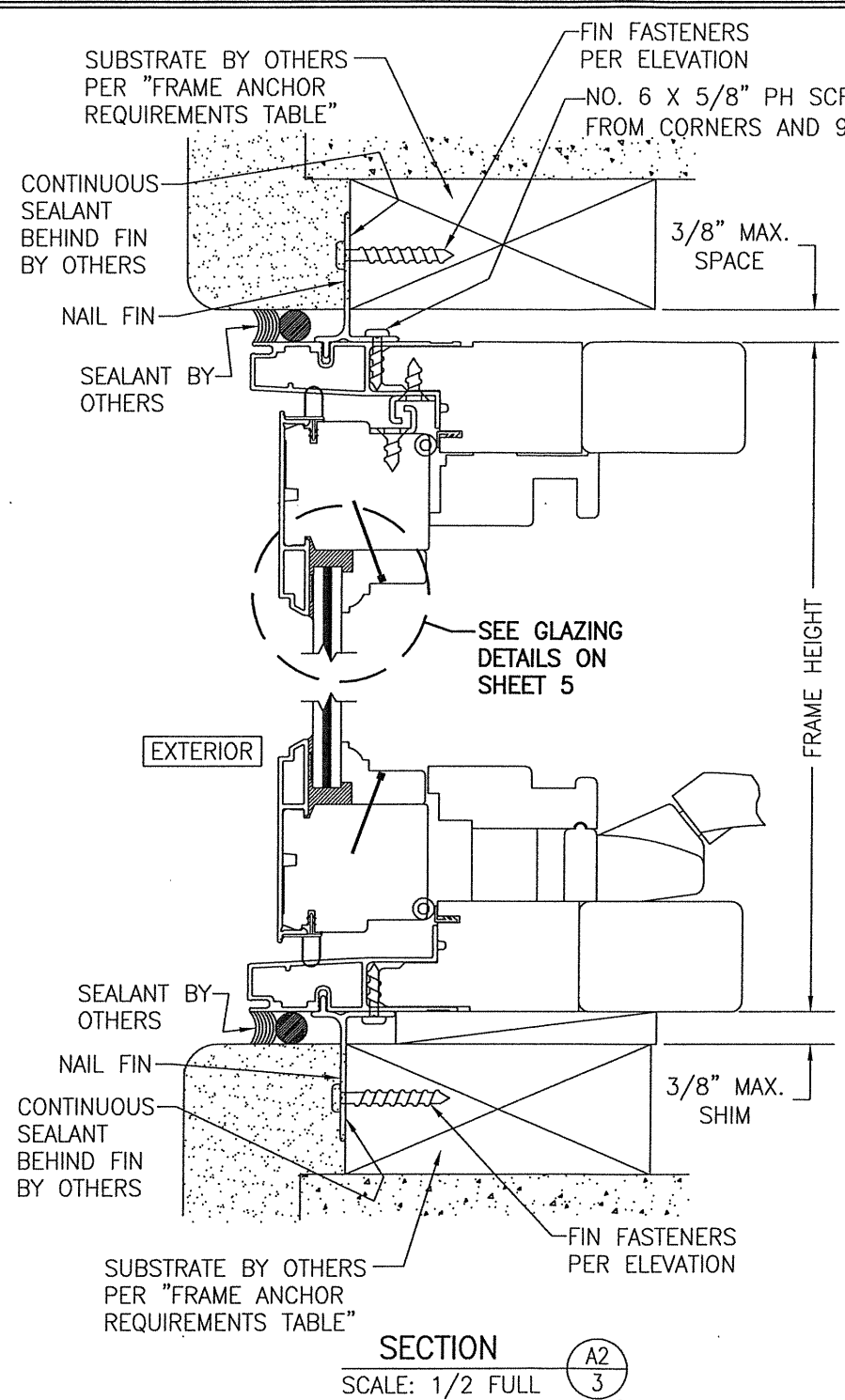
(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)
(TRIPLE WINDOW SHOWN. MORE THAN 3 WINDOWS MAY BE COMBINED
VERTICALLY IN ONE OPENING IN ANY COMBINATION OF FIXED & OPERABLE)

FOR INFORMATION NOT SHOWN, SEE SINGLE
WINDOW ELEVATIONS ON SHEET 1

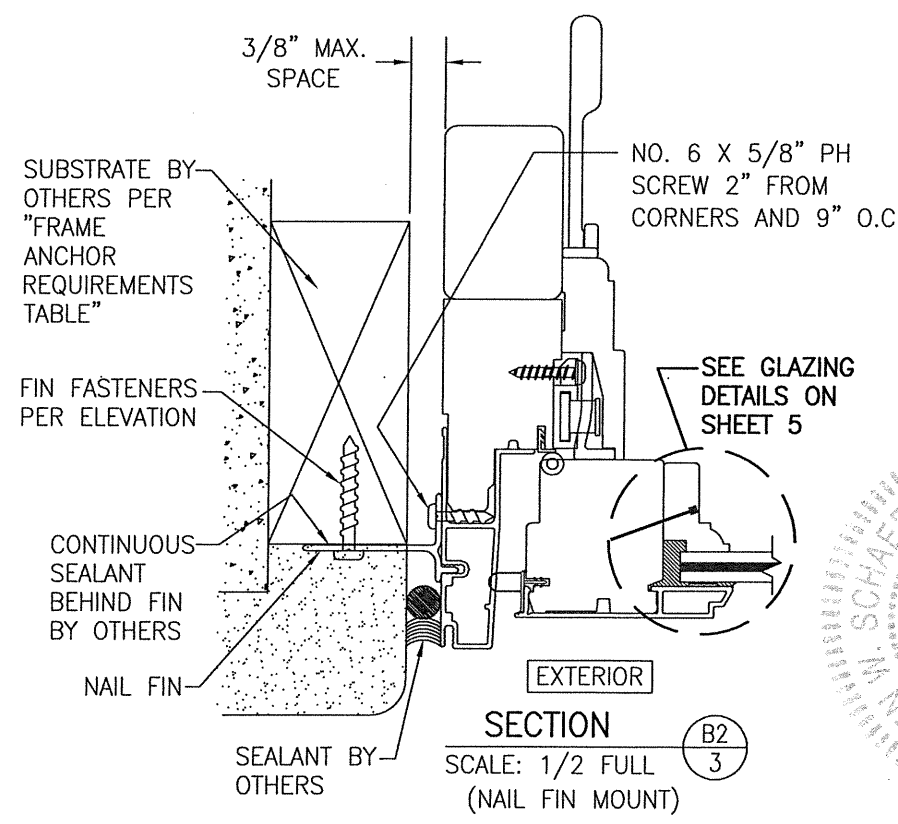
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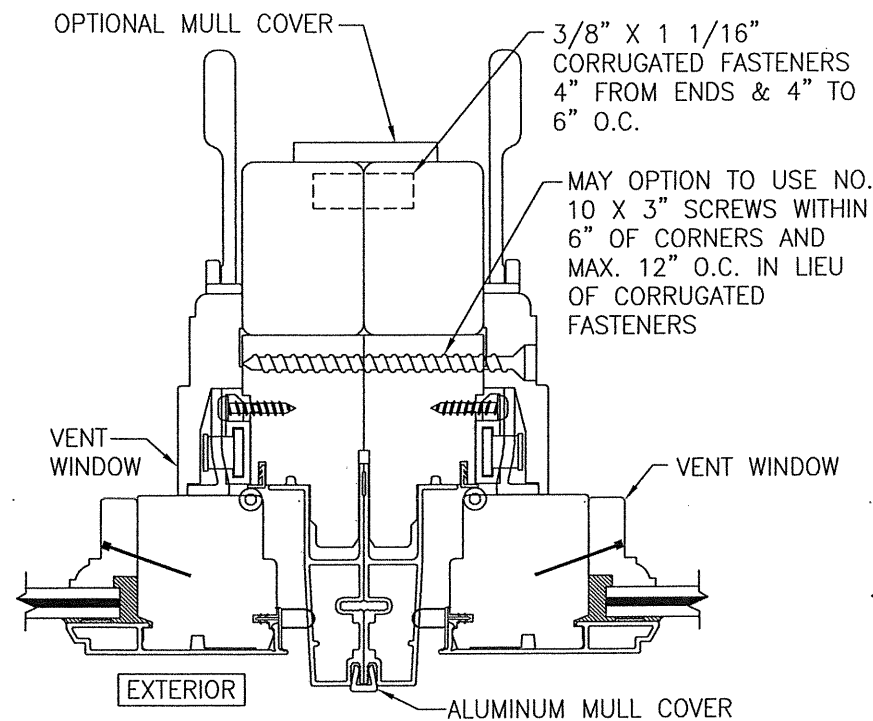
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 4 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



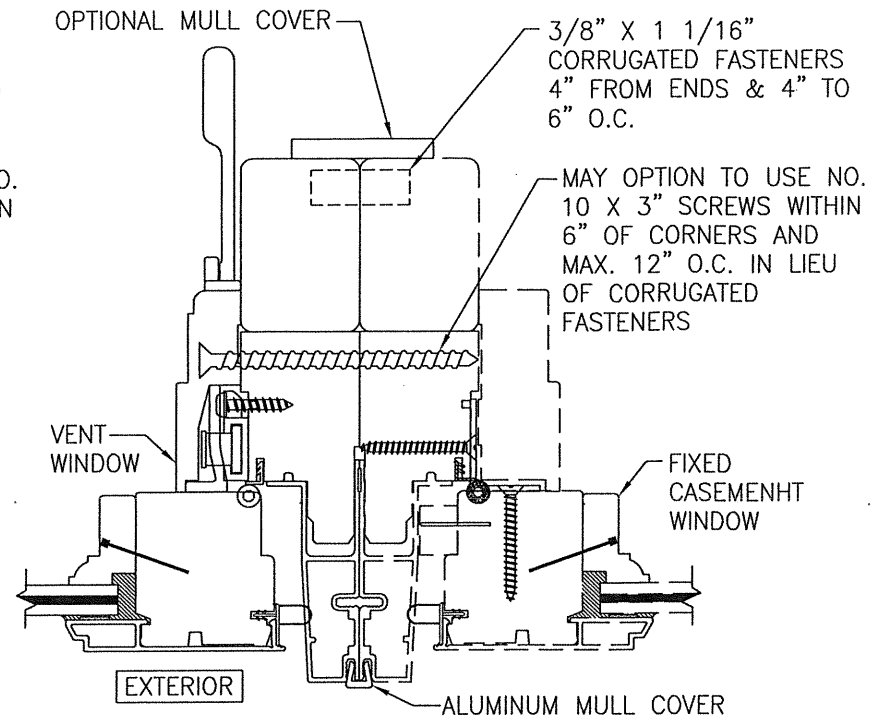
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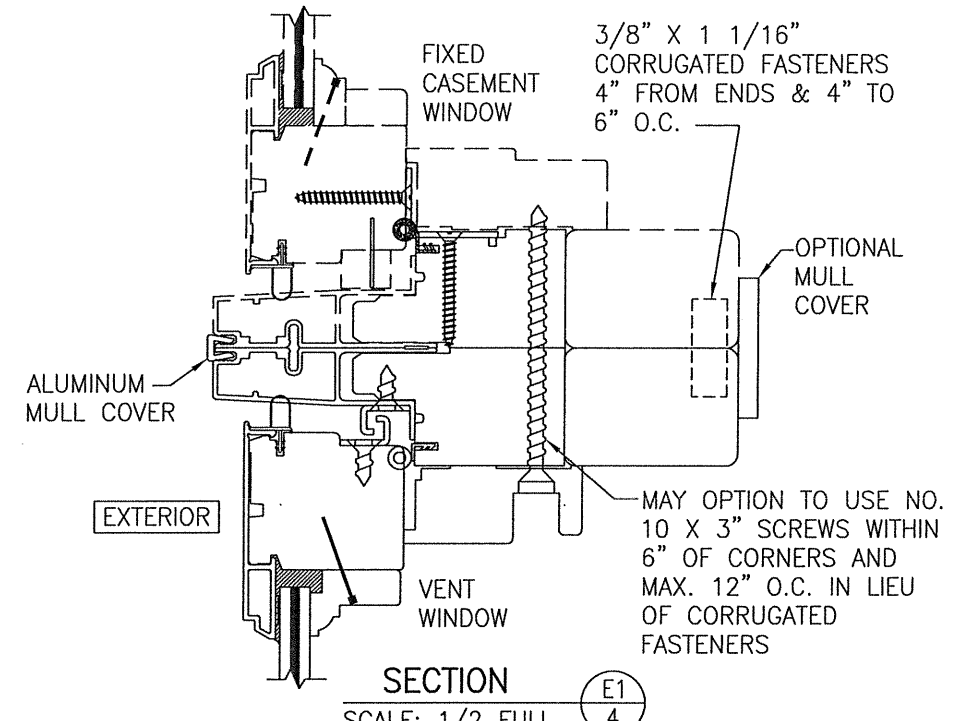
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/27/20	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT AWNING WINDOW			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER SIERRA PACIFIC WINDOWS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CERTIFICATION NOV 03 2020 WARREN W. SCHAEFER P.E. NO. 44135		DRAWING NO. 1983	
		REV. 	
		SHEET NO. 3 OF 5	



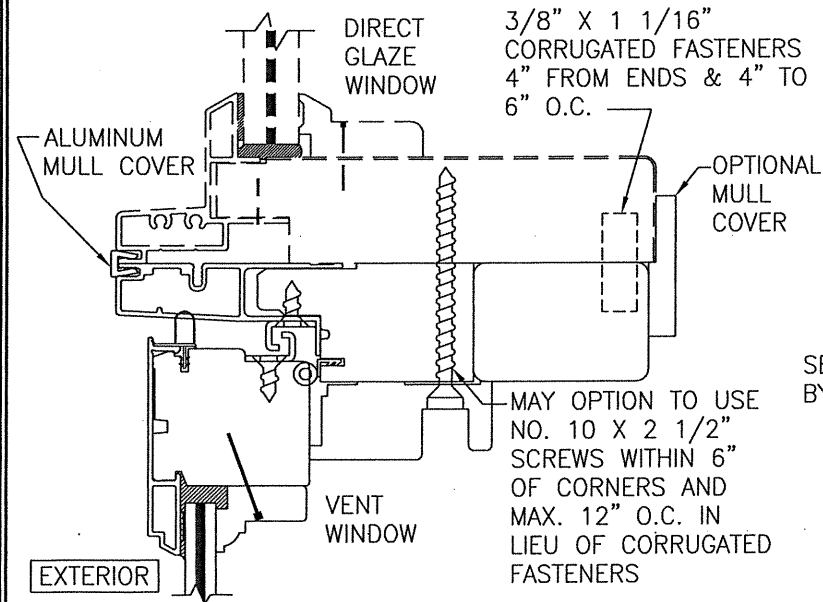
SECTION C
SCALE: 1/2 FULL
(VENT TO VENT)



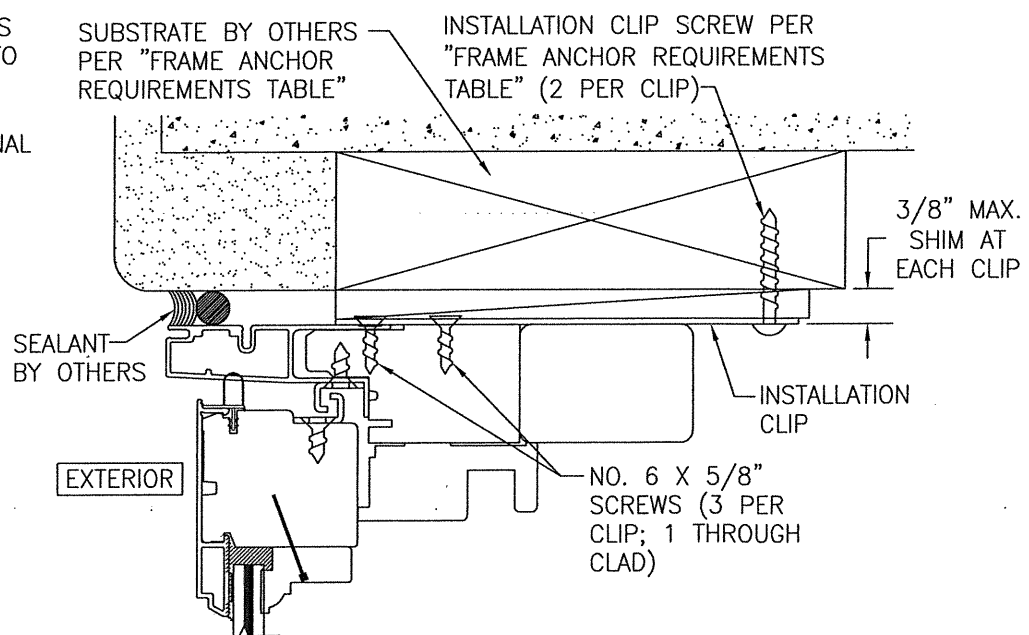
SECTION D
SCALE: 1/2 FULL
(VENT TO FIXED)



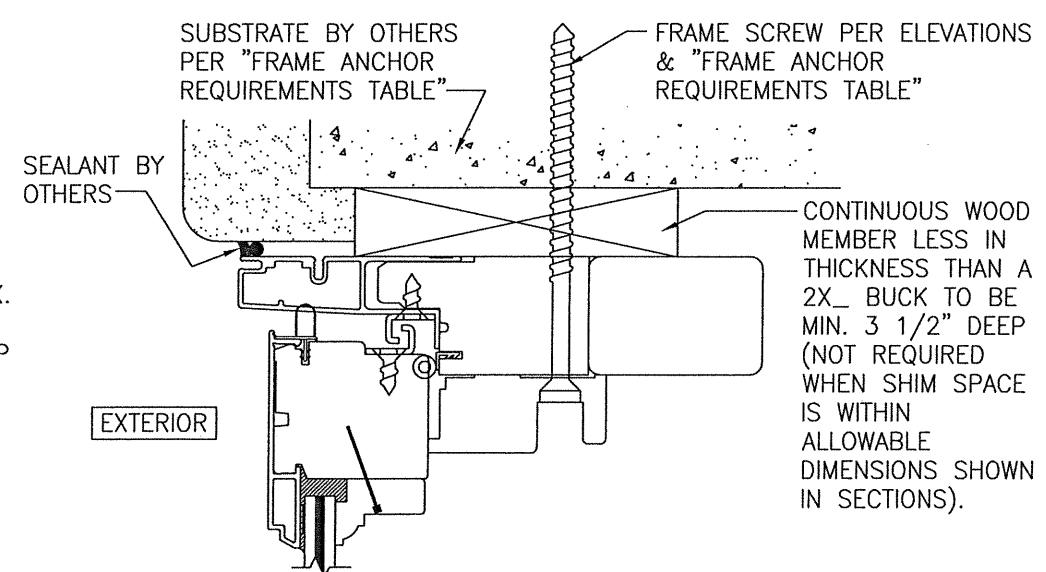
SECTION E1
SCALE: 1/2 FULL
(FIXED CASEMENT TRANSOM)



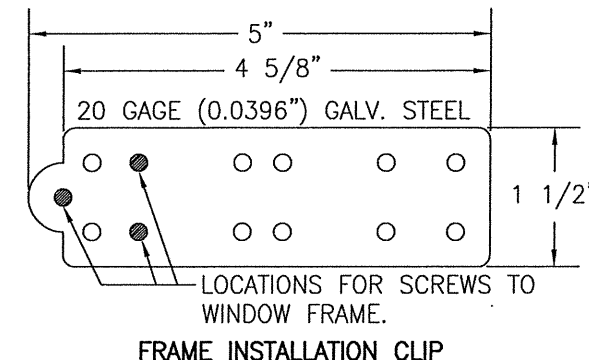
SECTION E2
SCALE: 1/2 FULL
(DIRECT GLAZE TRANSOM)



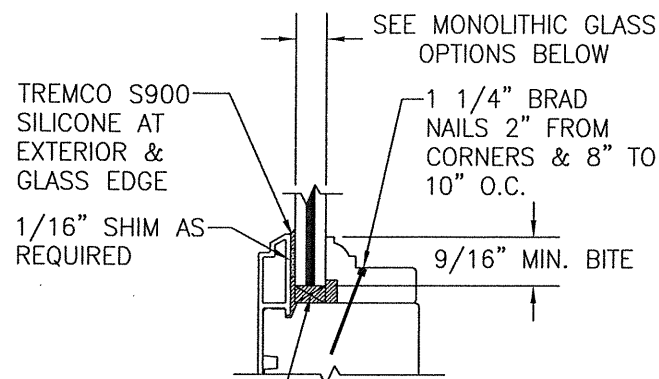
STANDARD INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/27/20
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT AWNING WINDOW	
MANUFACTURER: SIERRA PACIFIC WINDOWS 575 S. HELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: NOV 03 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1983	REV.
SHEET NO. 4	OF 5

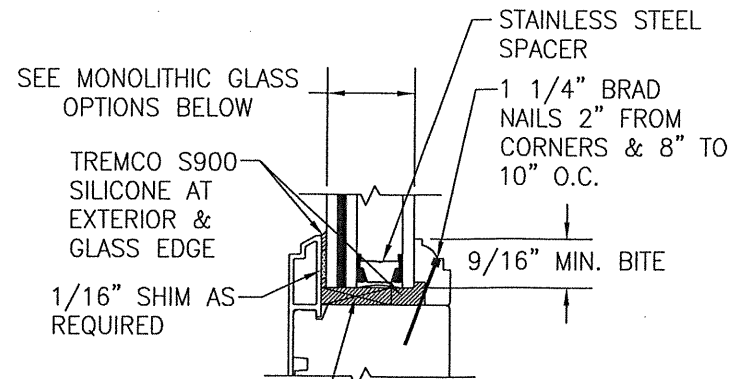


NEOPRENE SETTING BLOCKS
AT 1/4 POINTS ALL SIDES

MONOLITHIC GLAZING DETAIL WITH

MONOLITHIC GLASS OPTIONS:

- OPTION 1A: 5/32" THICK LAMINATED GLASS (1/8" AN/0.09 EASTMAN CHEM. CO. SAFLEX/1/8 AN)
OPTION 1B: 13/32" THICK LAMINATED GLASS (5/32" AN/0.09 EASTMAN CHEM. CO. SAFLEX/5/32" AN)
OPTION 1C: 7/16" THICK LAMINATED GLASS (3/16" H.S./0.09 KURARAY SG/3/16" H.S.)
OPTION 1D: 13/32" THICK LAMINATED GLASS (5/32" AN/0.09 KURARAY SG/5/32" AN)



NEOPRENE SETTING BLOCKS
AT 1/4 POINTS ALL SIDES

TYPICAL I.G. GLAZING DETAIL

I.G. GLASS OPTION: 7/8" LAMINATED I.G. (1/8" AN./0.09" EASTMAN CHEM. CO. SAFLEX/1/8" AN. EXTERIOR; 7/16" SPACER; 1/8" TEMP. INTERIOR)

I.G. GLASS OPTIONS:

- OPTION 2A: 29/32" THICK I.G. GLASS (1/8" AN/0.09 EASTMAN CHEM. CO. SAFLEX/1/8" AN EXTERIOR; 7/16" SPACER; 1/8" TEMP. INTERIOR)
OPTION 2B: 1" THICK I.G. GLASS (5/32" AN/0.09 EASTMAN CHEM. CO. SAFLEX/5/32" AN EXTERIOR; 7/16" SPACER; 5/32" TEMP. INTERIOR)
OPTION 2C: 1 1/32" THICK I.G. GLASS (3/16" H.S./0.09 KURARAY SG/3/16" H.S. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
OPTION 2D: 1" THICK I.G. GLASS (5/32" AN/0.09 KURARAY SG/5/32" AN EXTERIOR; 7/16" SPACER; 5/32" TEMP. INTERIOR)
OPTION 2E: 1 1/32" THICK I.G. GLASS (1/8" AN/0.09 KURARAY SG/1/8" AN EXTERIOR; 7/16" SPACER; 1/4" TEMP. INTERIOR)

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/27/20	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT AWNING WINDOW		MANUFACTURER SIERRA PACIFIC WINDOWS 575 S. WHELEN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		P.E. W. W. SCHAEFER, P.E. NO. 44135	
DRAWING NO. 1983		REV.	
SHEET NO. 5 OF 5			