

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS	05/15/26	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1–1/2” OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS.
5. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8”.
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED 6063–T5 ALUMINUM.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 9 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” ELCO ULTRACON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER’S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

17.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

17.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

17.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).

17.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 .125” THICK MINIMUM

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2	ELEVATIONS
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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT WINDOW IMPACT NOTES

DRAWN:
R.L.

DWG NO.
08–02486

REV
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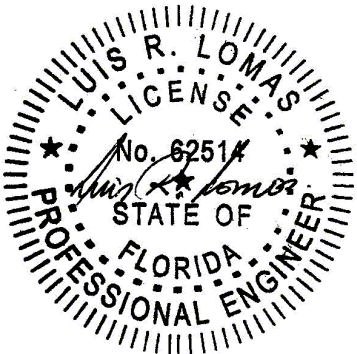
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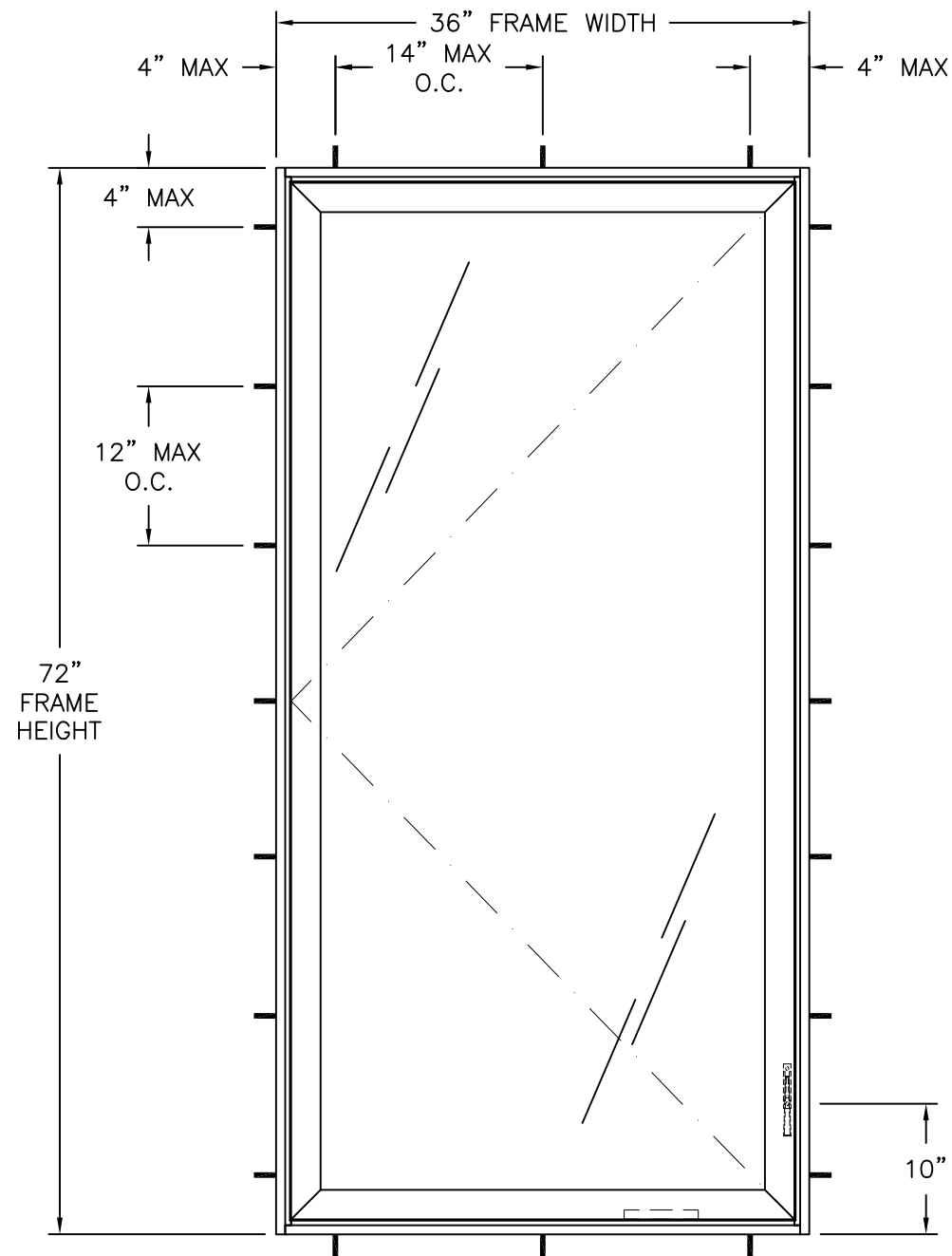
SHEET 1 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 05/15/2026



Luis R. Lomas P.E.
FL No.: 62514



SERIES SI7000 G2 INTERNATIONAL CASEMENT WINDOW
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
SEE CHART #1, THIS SHEET

36" X 72" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 18.0 FT²

NOTES:

- SASH SIZE: 34 1/4" x 70 3/16"
- D.L.O.: 29 3/4" x 66"

HARDWARE SCHEDULE

A.	SINGLE 3-POINT INTEGRATED LOCK, 10" FROM BOTTOM OF LOCK JAMB
B.	METAL KEEPER, 4", 31" AND 53" FROM TOP RAIL ON LOCK STILE
C.	STANDARD ROTO OPERATOR, 8" FROM HINGE JAMB ON SILL
D.	4-BAR HINGE AT HEAD/JAMB CORNERS, SILL/JAMB CORNER

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SOLAR INNOVATIONS, INC.

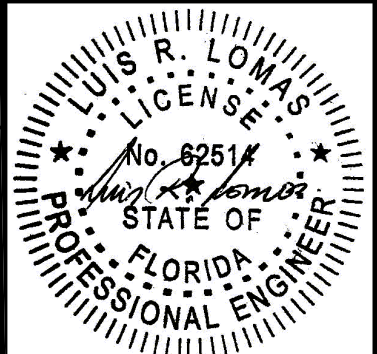
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT
WINDOW IMPACT
ELEVATIONS

DRAWN: R.L.	DWG NO. 08-02486	REV D
SCALE NTS	DATE 09/04/14	SHEET 2 OF 9

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CHART #1

Maximum design pressure capacity chart (psf)																						
Frame Height (in)	Frame width (in)																					
	24.0		30.0		34.0		36.00		42.0		48.0		54.0		60.0		66.0		72.0		78.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
30.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-
42.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	64.3	64.3	-	-	-	-	-
48.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-
54.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-
60.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	64.3	64.3	-	-	-	-	-	-	-	-	-	-	-
66.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70.1	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT
WINDOW IMPACT
DESIGN PRESSURE CHART

DRAWN:
R.L.

DWG NO.
08-02486

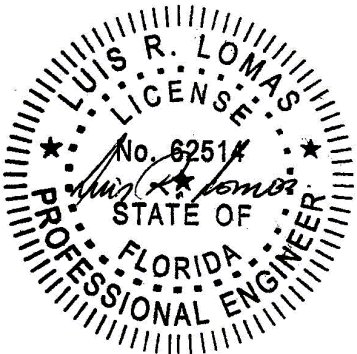
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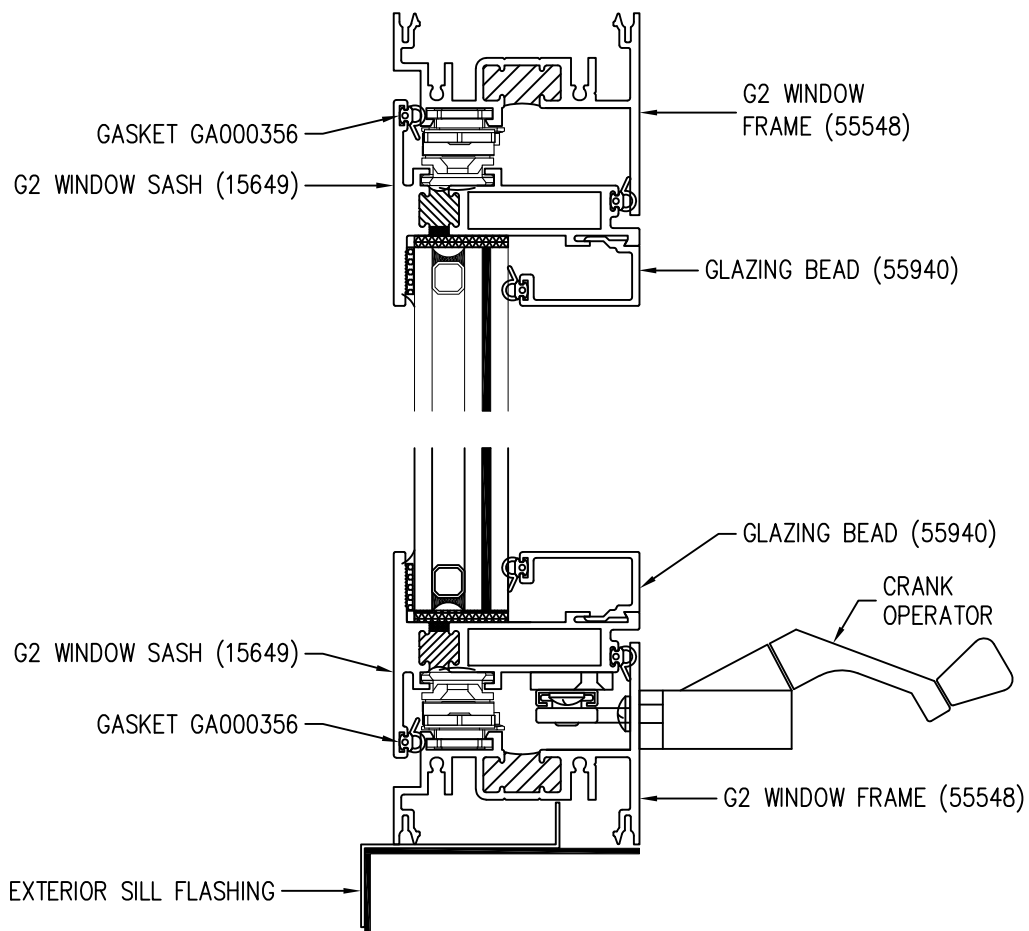
SHEET 3 OF 9

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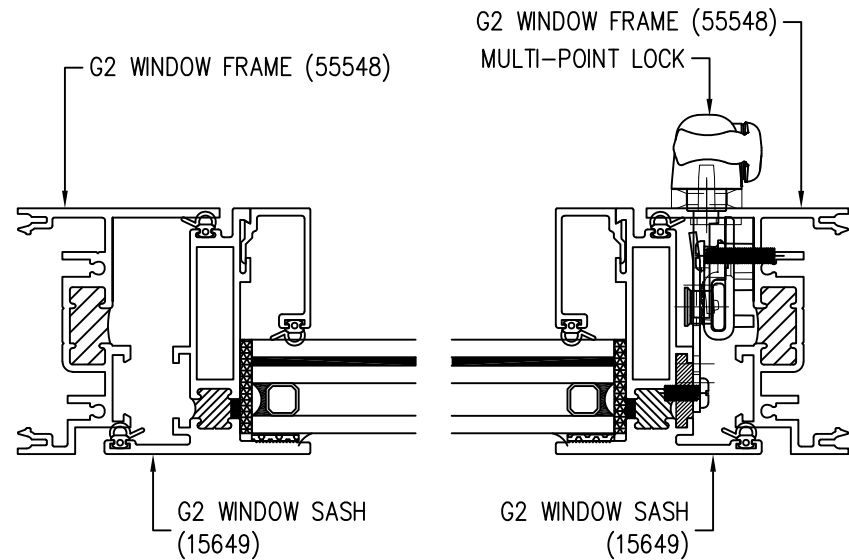


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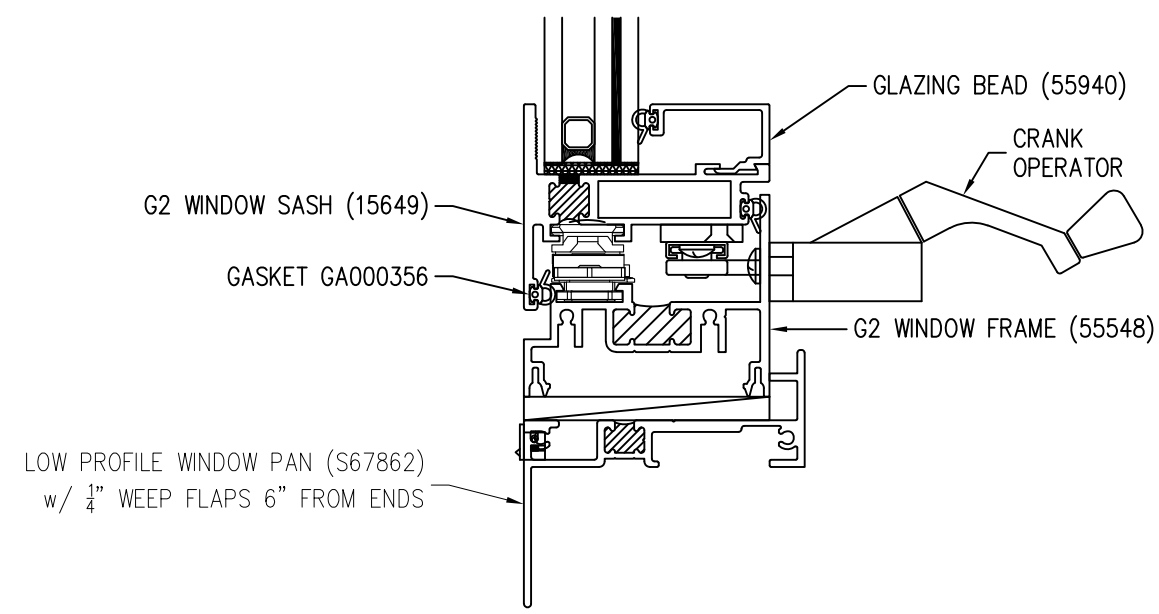
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VERTICAL CROSS SECTION



HORIZONTAL CROSS SECTION



ADDITIONAL SILL DETAIL

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT WINDOW IMPACT

CROSS SECTIONS, GLAZING DETAIL & COMPONENTS

DRAWN: R.L.	DWG NO. 08-02486	REV D
SCALE NTS	DATE 09/04/14	SHEET 4 OF 9

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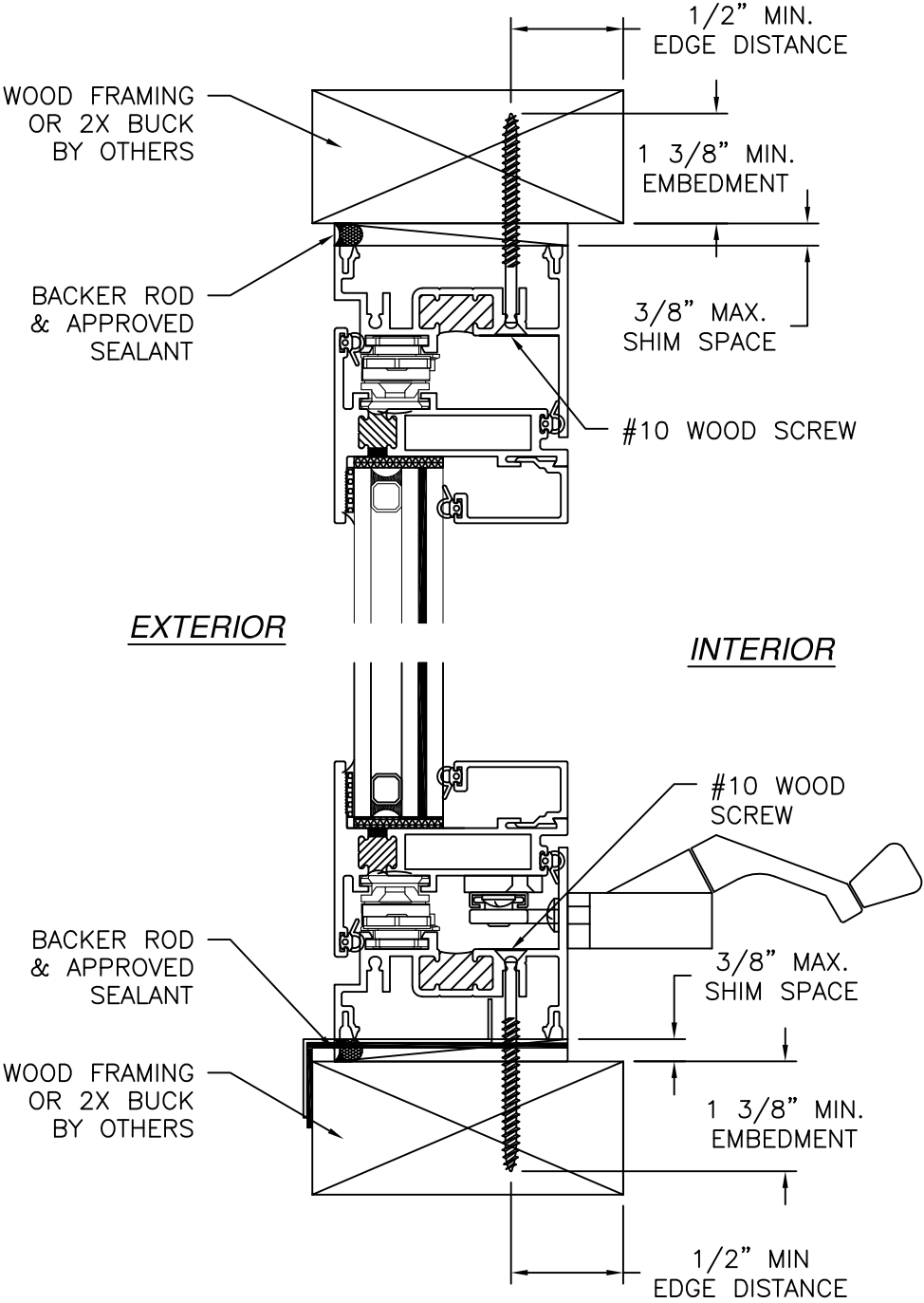
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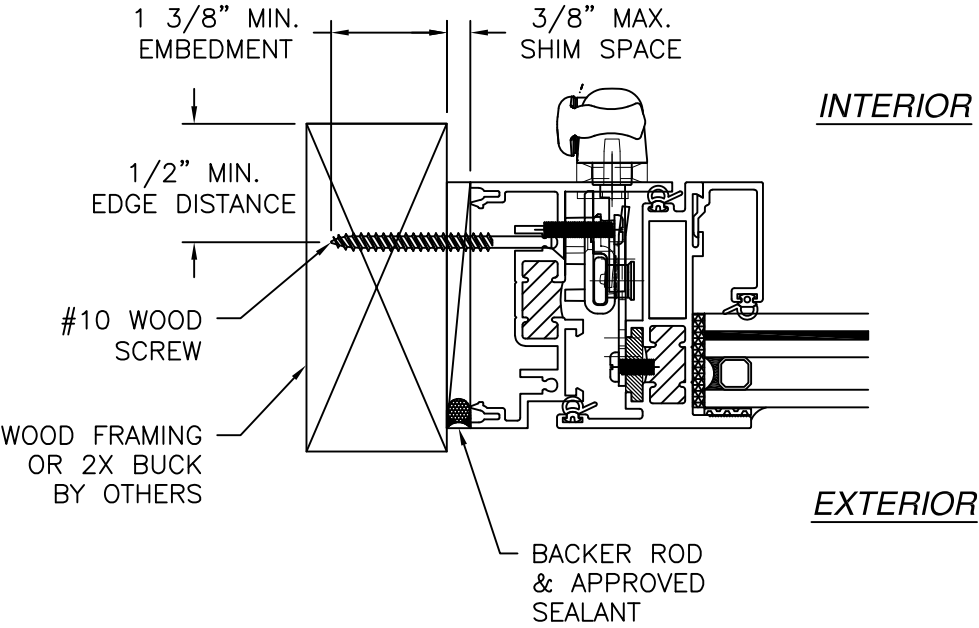
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
FOR ADDITIONAL SILL DETAIL, SEE SHEET 8

NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS,
NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE
DESIGNED IN ACCORDANCE WITH ASTM E2112



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT
WINDOW IMPACT
INSTALLATION DETAILS

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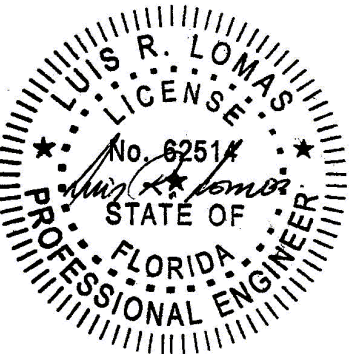
SHEET 5 OF 9

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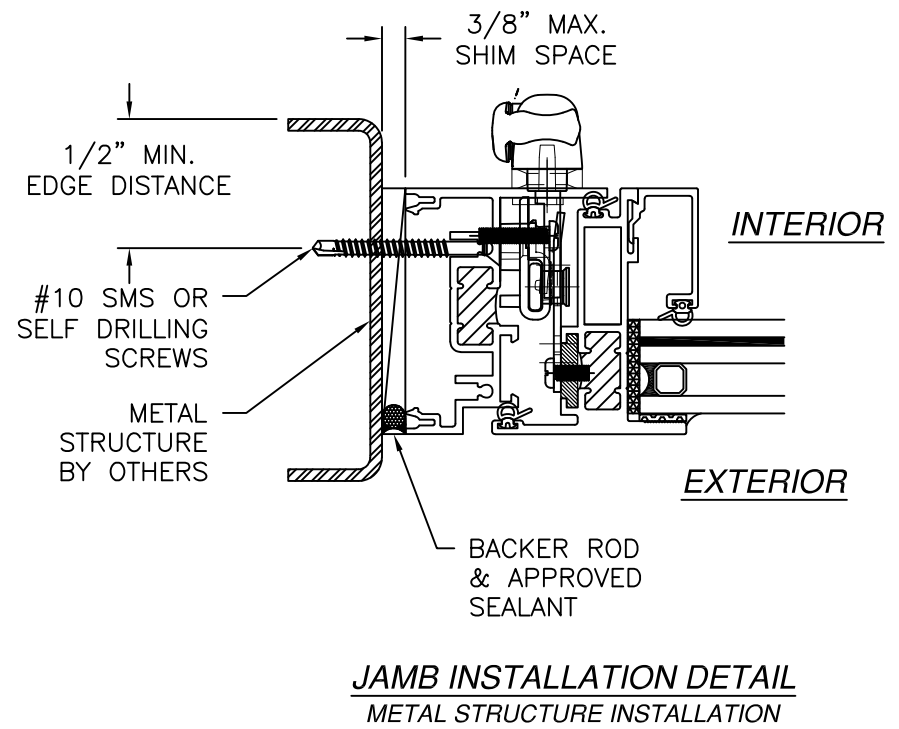
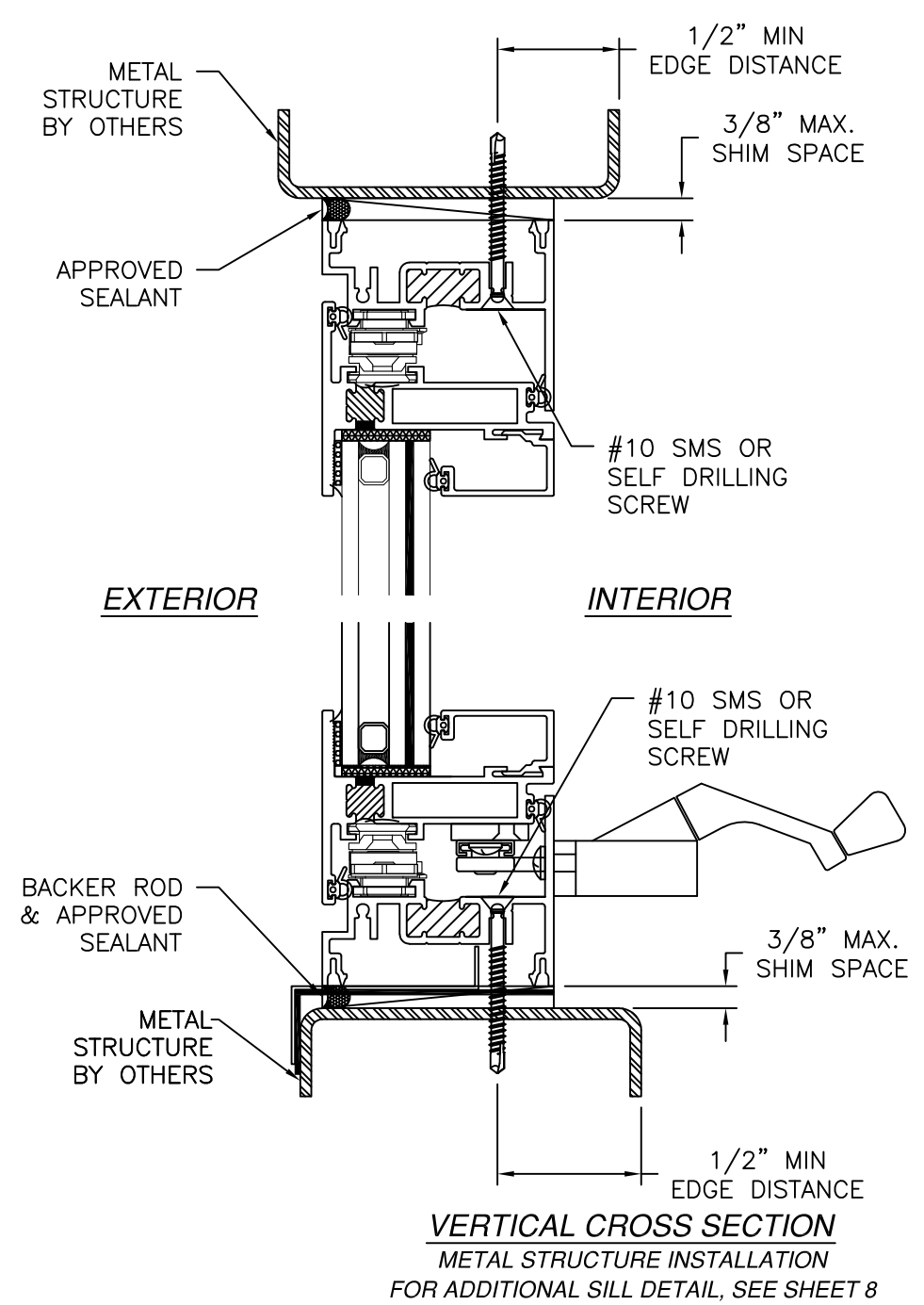
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31 ROBERTS RD
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SERIES SI7000 G2 INTERNATIONAL CASEMENT
WINDOW IMPACT
INSTALLATION DETAILS

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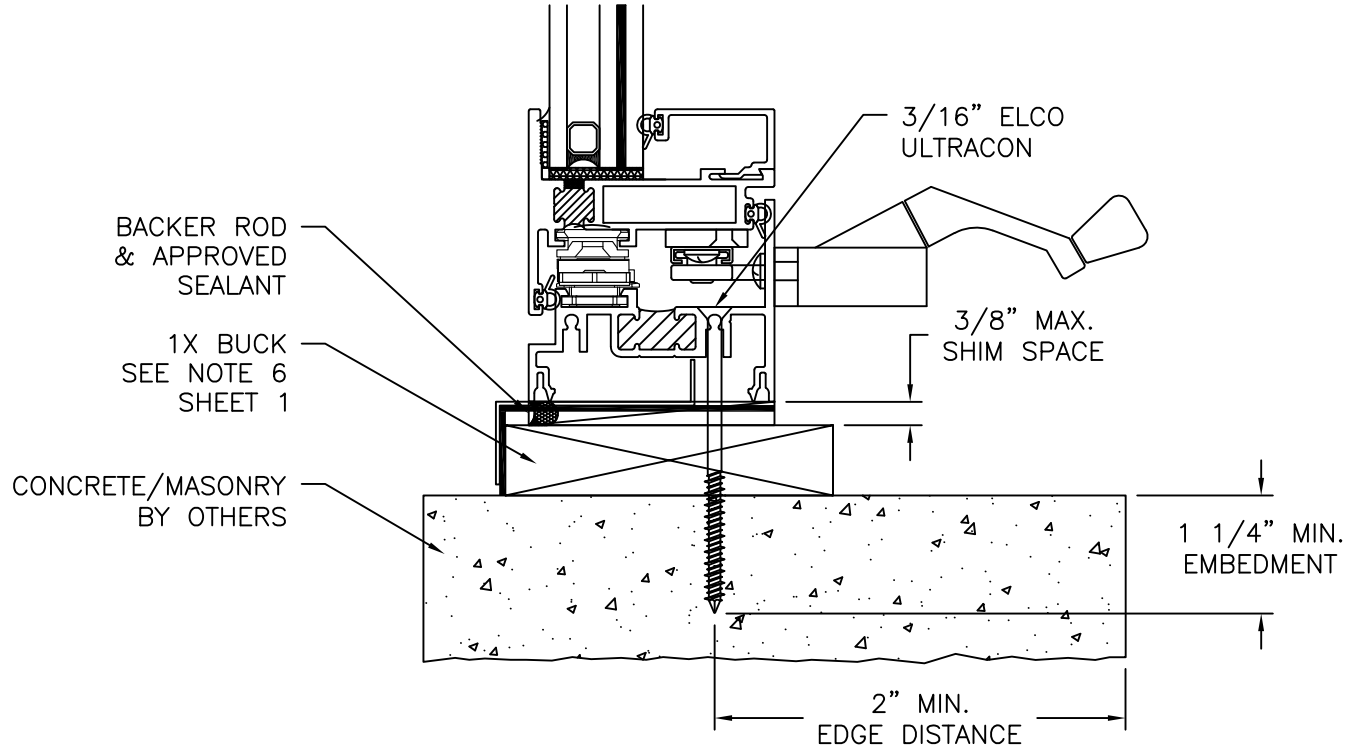
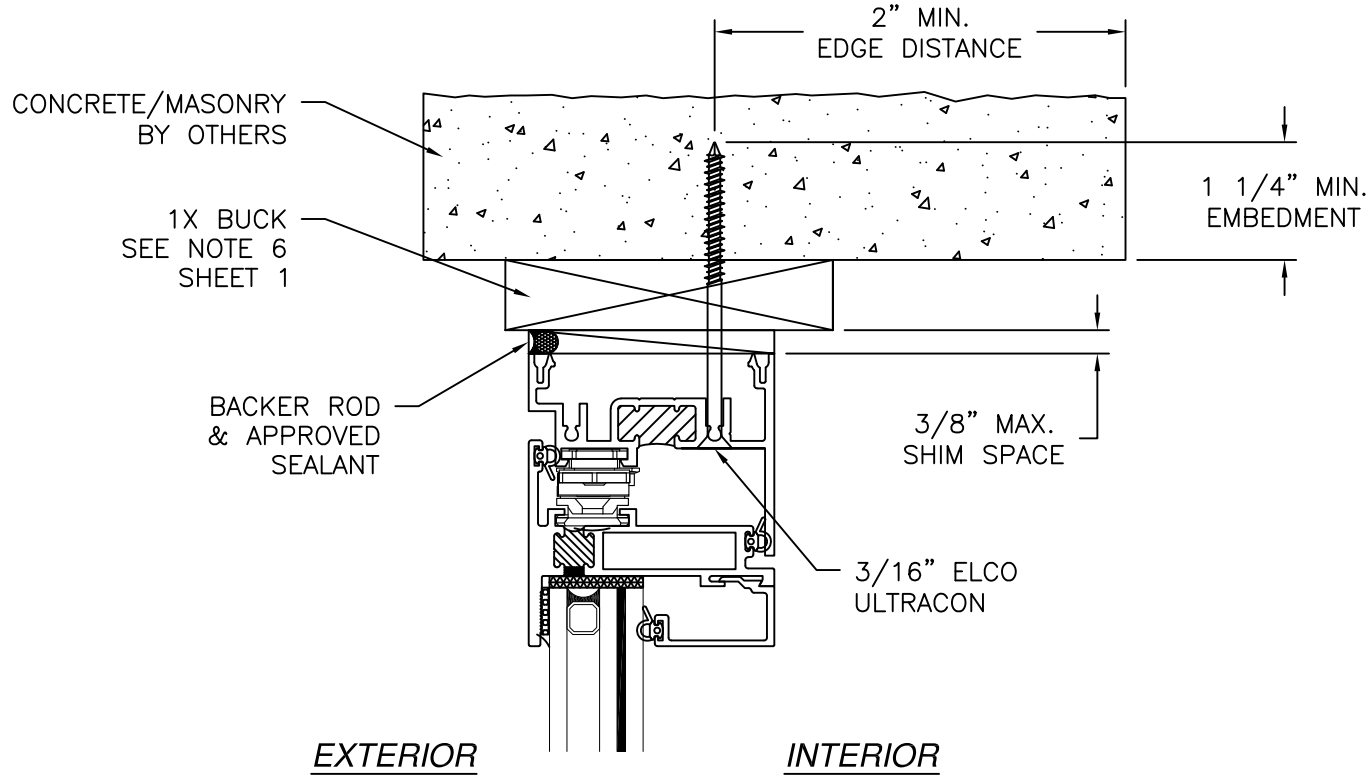
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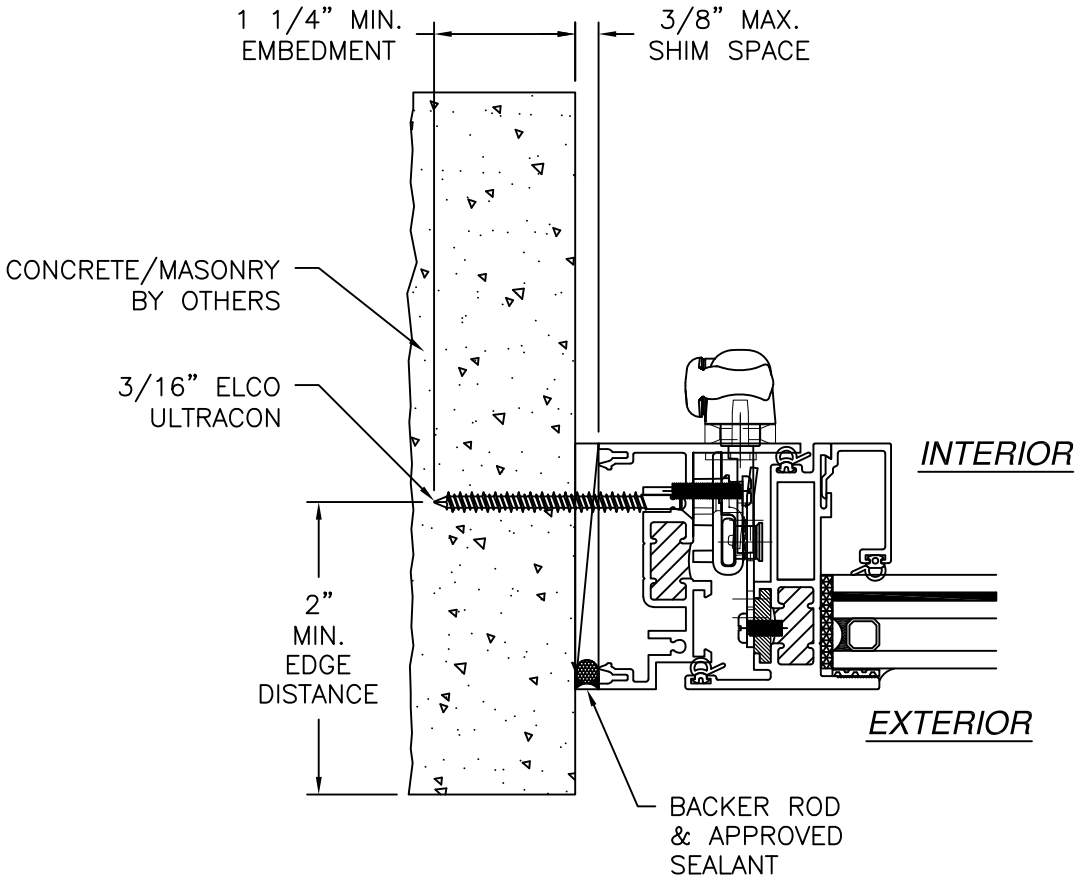
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VERTICAL CROSS SECTION
 CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
 JAMB INSTALLATION DETAIL
 FOR ADDITIONAL SILL DETAIL, SEE SHEET 8



JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

NOTES:
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31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT
WINDOW IMPACT
INSTALLATION DETAILS

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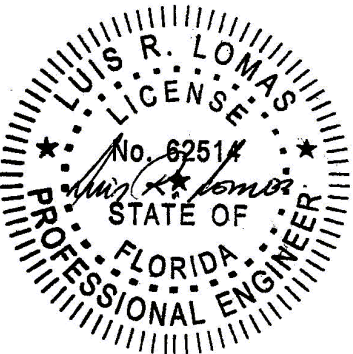
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SHEET
7 OF 9

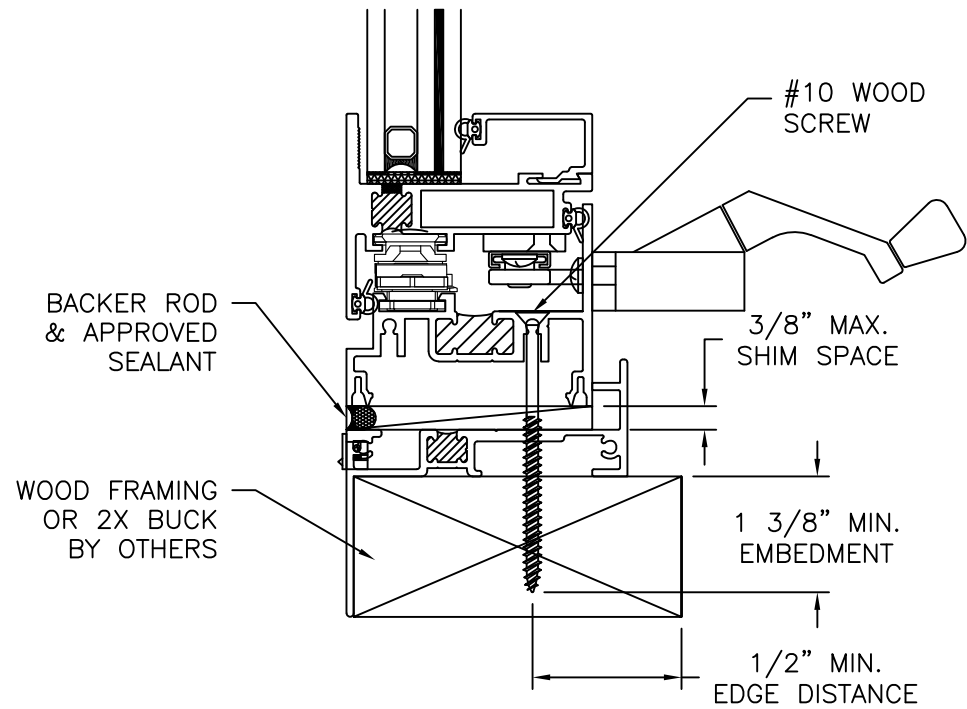
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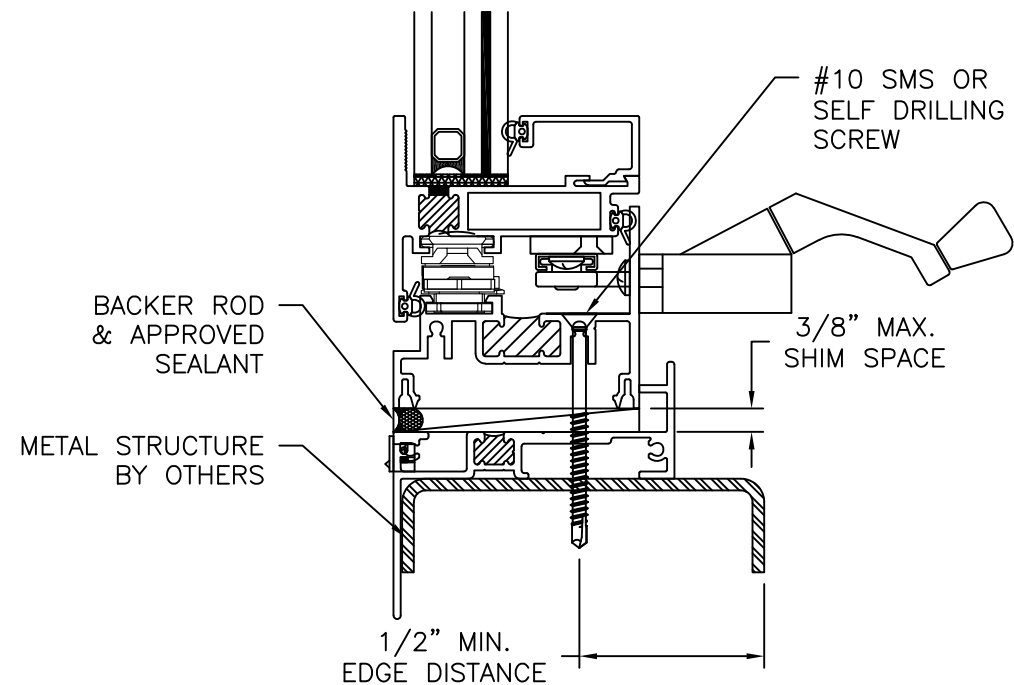


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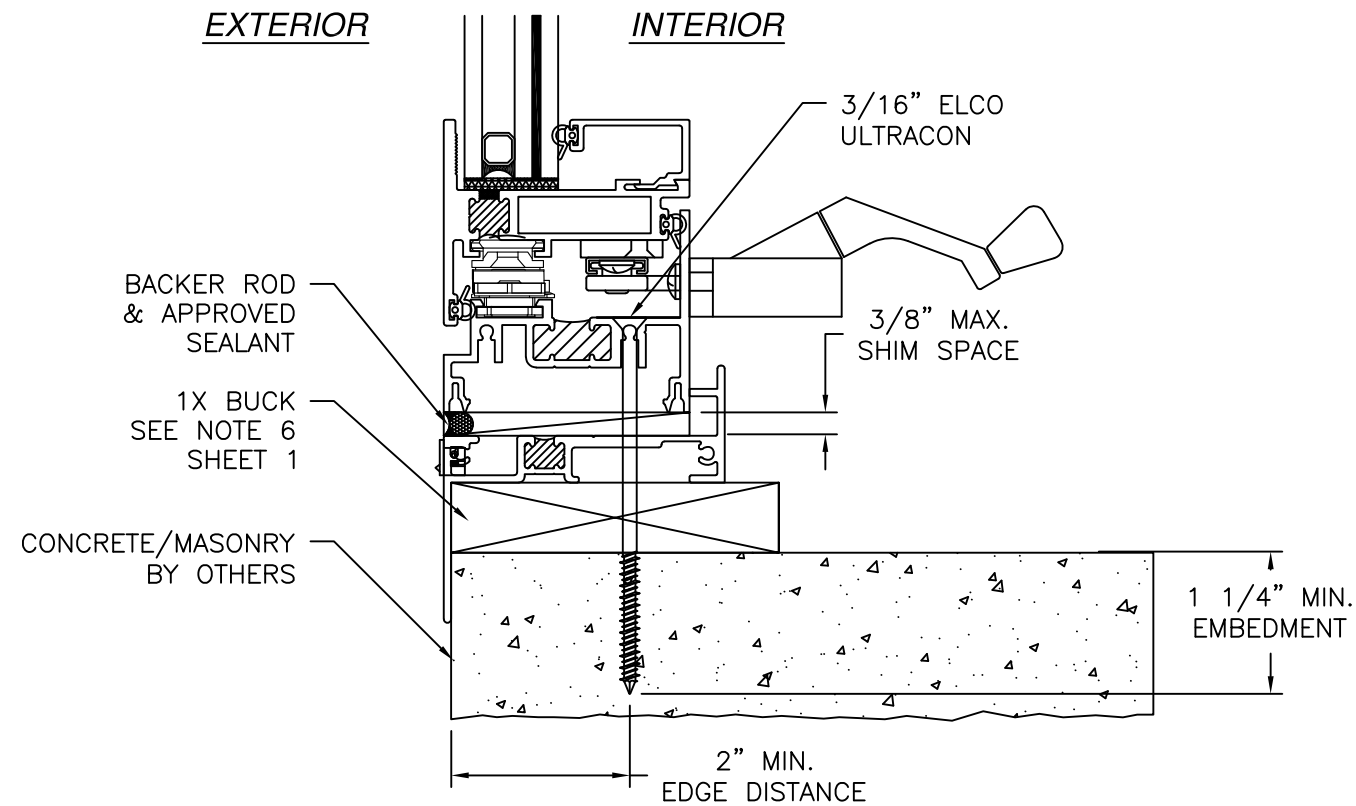


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
WITH LOW PROFILE WINDOW PAN S67862



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION
WITH LOW PROFILE WINDOW PAN S67862

NOTES:
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
WITH LOW PROFILE WINDOW PAN S67862

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT
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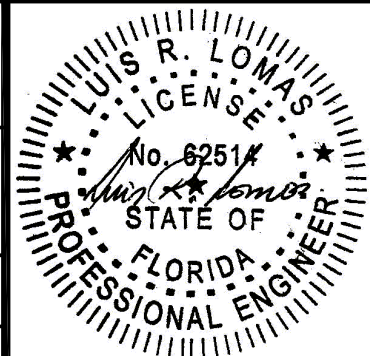
SHEET
8 OF 9

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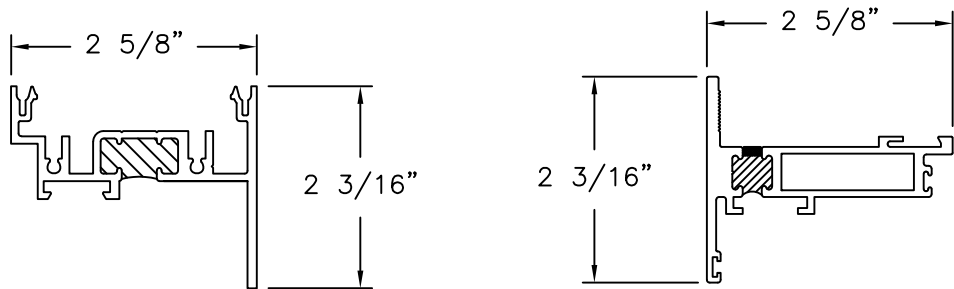
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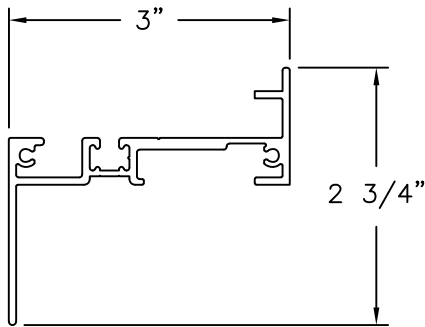
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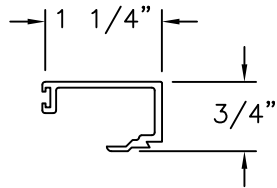


FRAME
ALUMINUM 6063-T5
.100" THICK

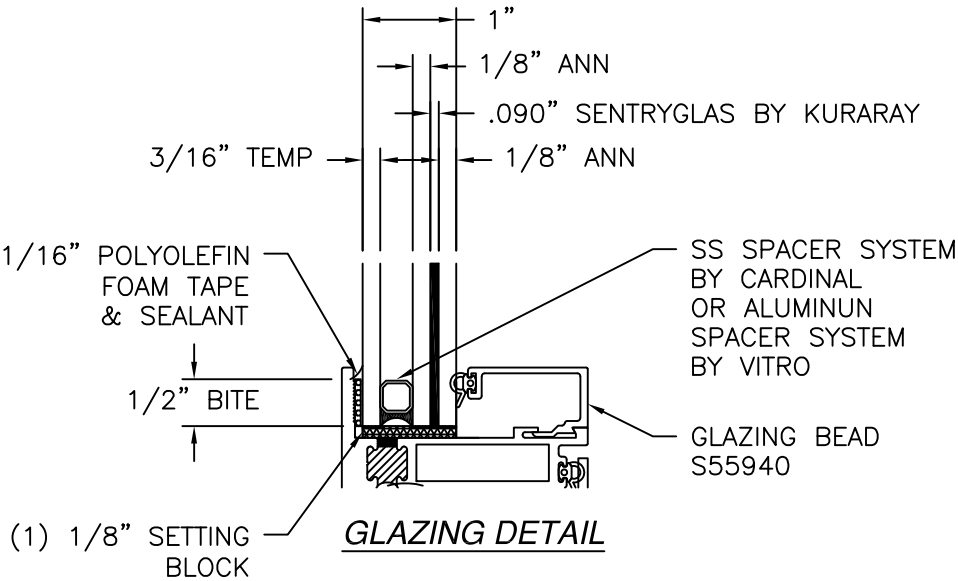
SASH
ALUMINUM 6063-T5
.100" THICK



LOW PROFILE WINDOW PAN
ALUMINUM 6063-T5
.100" THICK



GLASS STOP
ALUMINUM 6063-T5
.062" THICK



GLAZING DETAIL

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL CASEMENT
WINDOW IMPACT
COMPONENTS AND GLAZGIN DETAILS

DRAWN:
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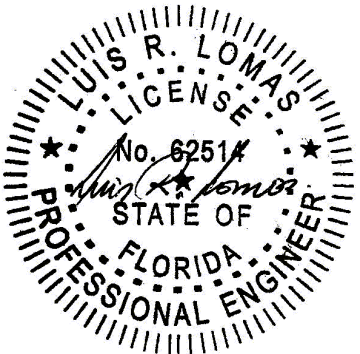
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