

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

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
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 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.
4. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. FRAME MATERIAL: ALUMINUM 6063-T6 AND 6063-T5.
7. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
9. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8".

10. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" ELCO ULTRACON OR 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. 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.
13. ALL FASTENERS TO BE CORROSION RESISTANT.
14. 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:
 - 14.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 14.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 - 14.3. GROUT FILLED MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 14.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM

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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8100 SLIDING GLASS DOOR
5x8 PANEL NON-IMPACT HVHZ
NOTES

DRAWN:
A.R.

DWG NO.
08-03418

REV
C

SCALE NTS

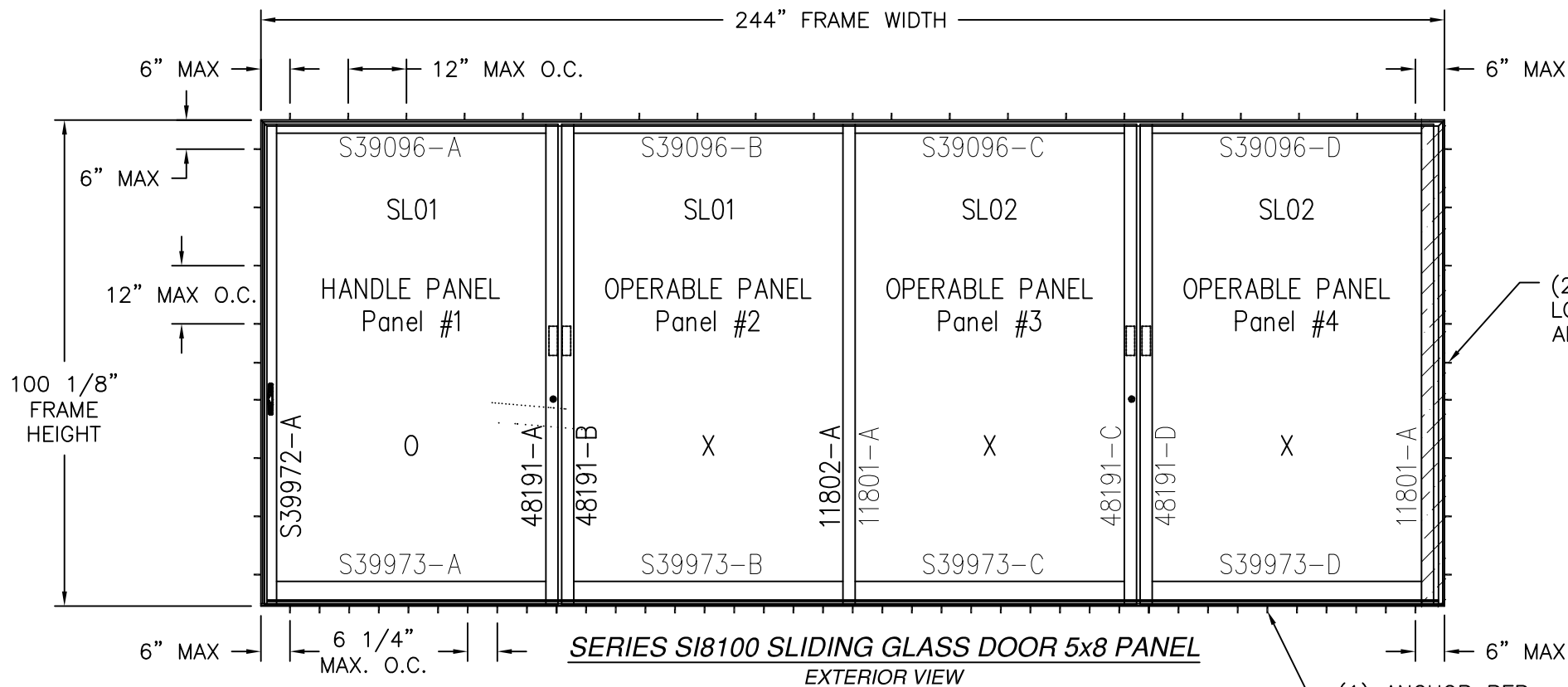
DATE 04/15/19

SHEET 1 OF 8

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SIGNED: 05/06/2026

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



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NOTES:

1. PANEL SIZE: 60 1/2" x 99"

2. D.L.O.: 55 1/2" x 92 5/16"

FOR OTHER PANEL SIZE RATINGS SEE CHART #1 THIS SHEET

DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	NONE

UNITS WITH 4 PANELS MAXIMUM IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 41.59 FT² AND FRAME AREA DOES NOT EXCEED 254.48 FT² AND USES VERTICAL CONDITIONS AS SHOWN.

Chart #1

Maximum Design pressure (psf)																
Panel Height (in)	Single Panel Width (in)															
	24.0		30.0		36.0		42.0		48.0		54.0		60.5		66.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	80.0	97.5	80.0	97.5	80.0	97.5	80.0	97.5	80.0	97.5	80.0	92.4	80.0	82.5	75.6	75.6
84.0	80.0	97.5	80.0	97.5	80.0	97.5	80.0	97.5	80.0	93.9	80.0	85.8	76.6	76.6	70.2	70.2
90.0	80.0	97.5	80.0	97.5	80.0	97.5	80.0	93.3	80.0	85.3	79.5	79.5	71.5	71.5	65.5	65.5
96.0	80.0	97.5	80.0	97.5	80.0	96.3	80.0	85.8	78.2	78.2	72.6	72.6	67.0	67.0	-	-
99.0	80.0	97.5	80.0	97.5	80.0	92.7	80.0	82.5	75.1	75.1	69.5	69.5	65.0	65.0	-	-
102.0	80.0	97.5	80.0	97.5	80.0	89.4	78.5	78.5	70.2	70.2	64.0	64.0	-	-	-	-
108.0	80.0	97.5	80.0	89.2	75.4	75.4	65.7	65.7	58.6	58.6	53.2	53.2	-	-	-	-
114.0	80.0	93.5	75.6	75.6	63.8	63.8	55.5	55.5	49.4	49.4	-	-	-	-	-	-
120.0	80.0	80.1	64.6	64.6	54.5	54.5	47.3	47.3	42.0	42.0	-	-	-	-	-	-
126.0	69.0	69.0	55.7	55.7	46.9	46.9	40.7	40.7	-	-	-	-	-	-	-	-
132.0	60.0	60.0	48.3	48.3	40.7	40.7	35.2	35.2	-	-	-	-	-	-	-	-
138.0	52.4	52.4	42.2	42.2	35.5	35.5	30.7	30.7	-	-	-	-	-	-	-	-
144.0	46.1	46.1	37.1	37.1	31.2	31.2	-	-	-	-	-	-	-	-	-	-
150.0	40.7	40.7	32.8	32.8	27.5	27.5	-	-	-	-	-	-	-	-	-	-
156.0	36.2	36.2	29.1	29.1	24.4	24.4	-	-	-	-	-	-	-	-	-	-

HARDWARE SCHEDULE

A.	(2) POINT METAL LOCK WITH KEEPERS, 42" FROM BOTTOM OF LOCK STILE
B.	DUAL STAINLESS STEEL ROLLERS AT EACH END OF BOTTOM RAILS
C.	ALUMINUM REINFORCEMENT PANEL ADAPTER AT MEETING STILE IN PANELS 1 & 2

SOLAR INNOVATIONS, INC.

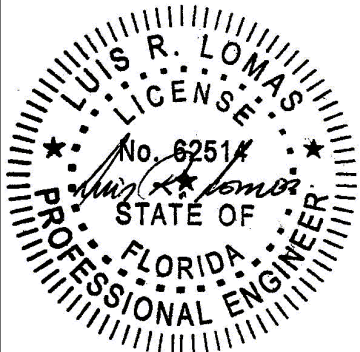
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8100 SLIDING GLASS DOOR
5x8 PANEL NON-IMPACT HVHZ
ELEVATIONS

DRAWN: A.R.	DWG NO. 08-03418	REV C
SCALE NTS	DATE 04/15/19	SHEET 2 OF 8

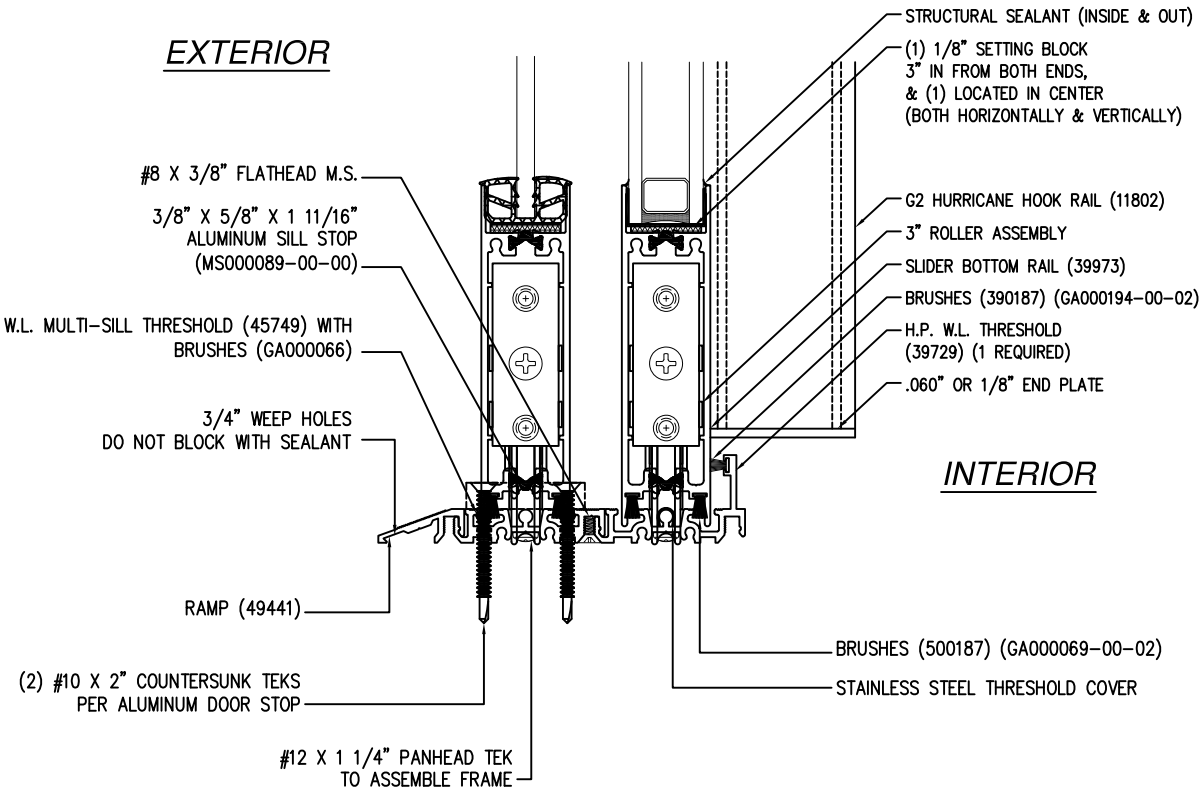
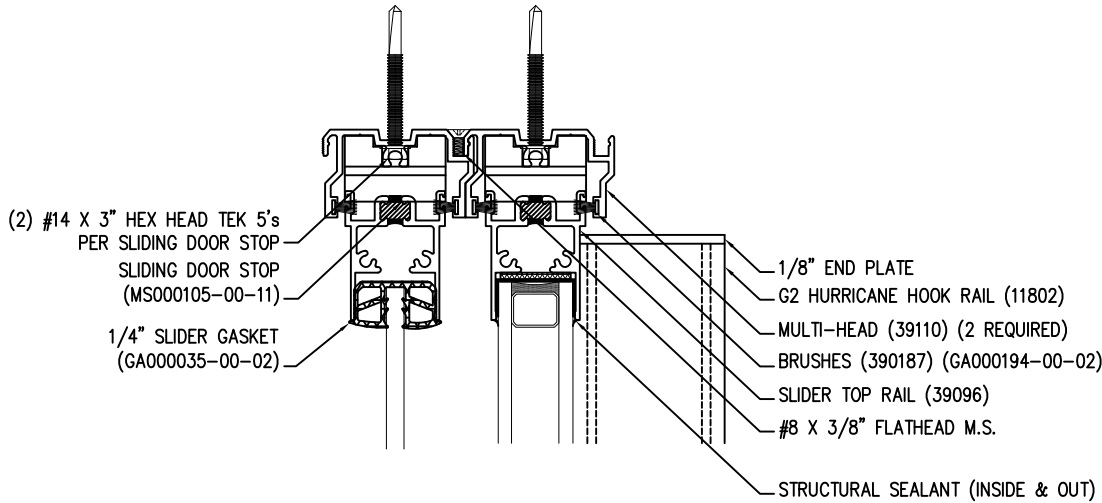
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VERTICAL CROSS SECTION

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31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8100 SLIDING GLASS DOOR

5x8 PANEL NON-IMPACT HVHZ

CROSS SECTIONS

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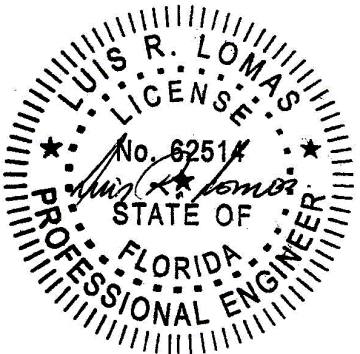
SHEET 3 OF 8

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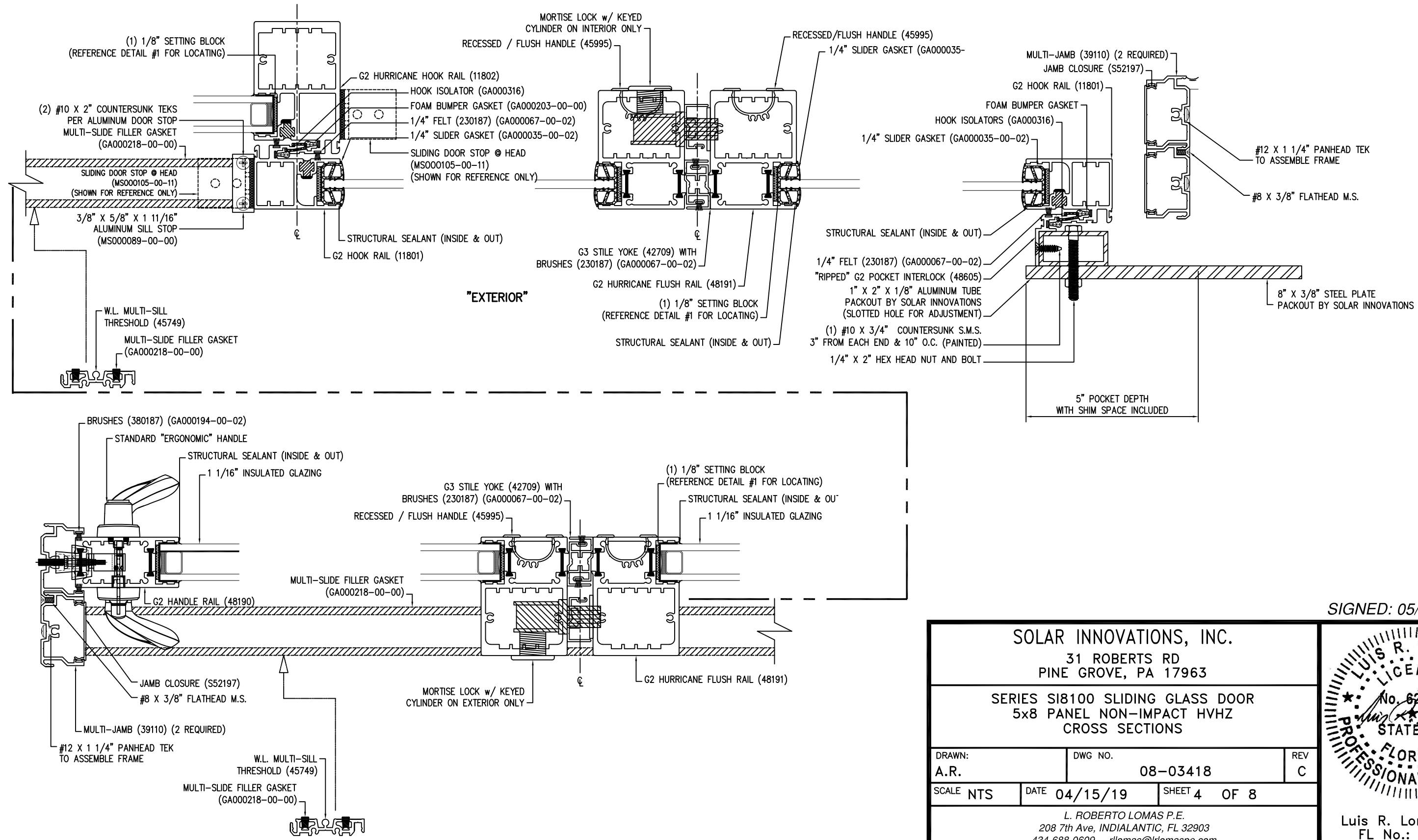
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HORIZONTAL CROSS SECTION



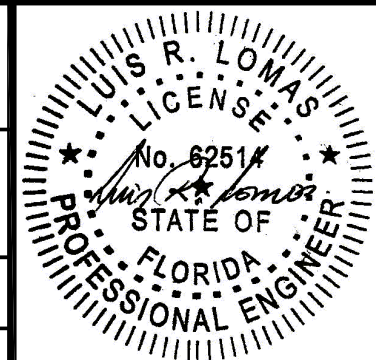
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SERIES SI8100 SLIDING GLASS DOOR
5x8 PANEL NON-IMPACT HVHZ
CROSS SECTIONS

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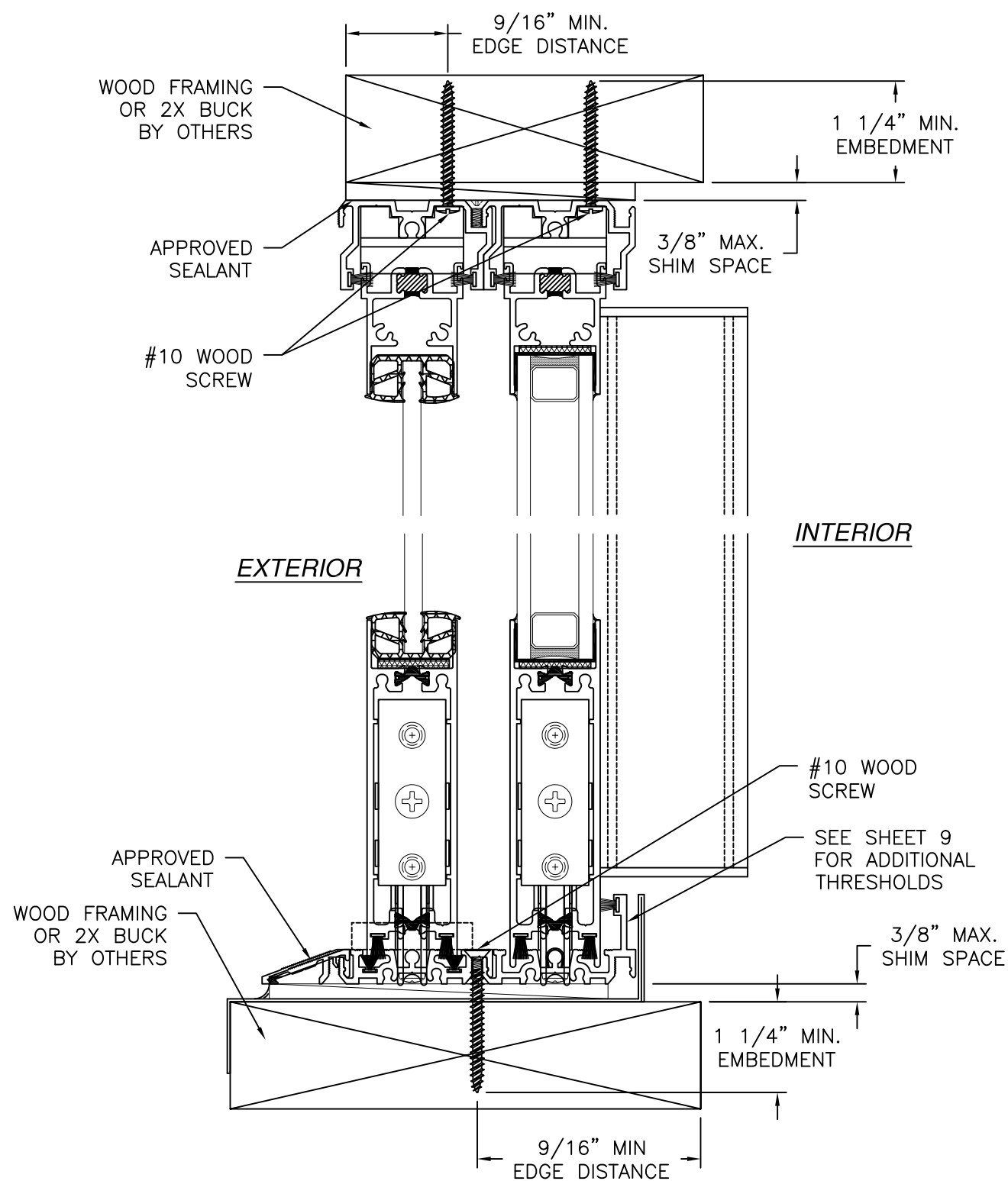
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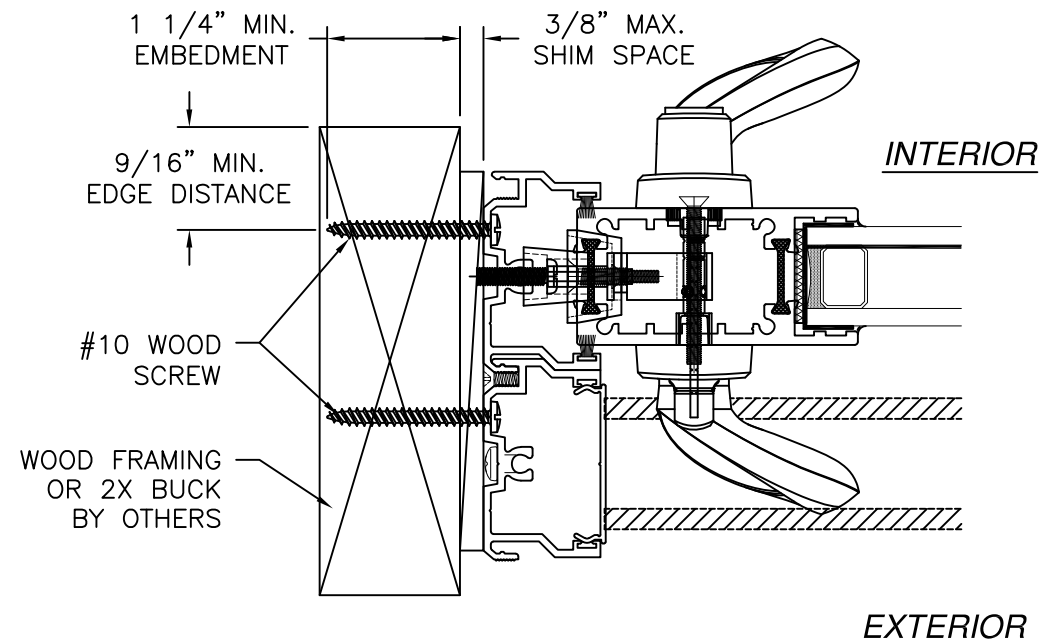
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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.

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PINE GROVE, PA 17963

SERIES SI8100 SLIDING GLASS DOOR
5x8 PANEL NON-IMPACT HVHZ
INSTALLATION DETAILS

DRAWN: A.R.

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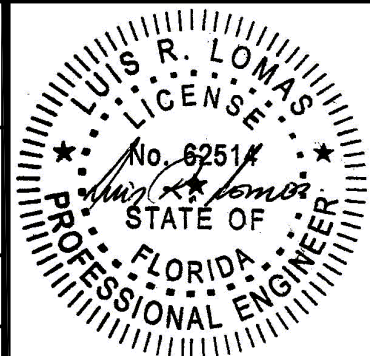
SHEET 5 OF 8

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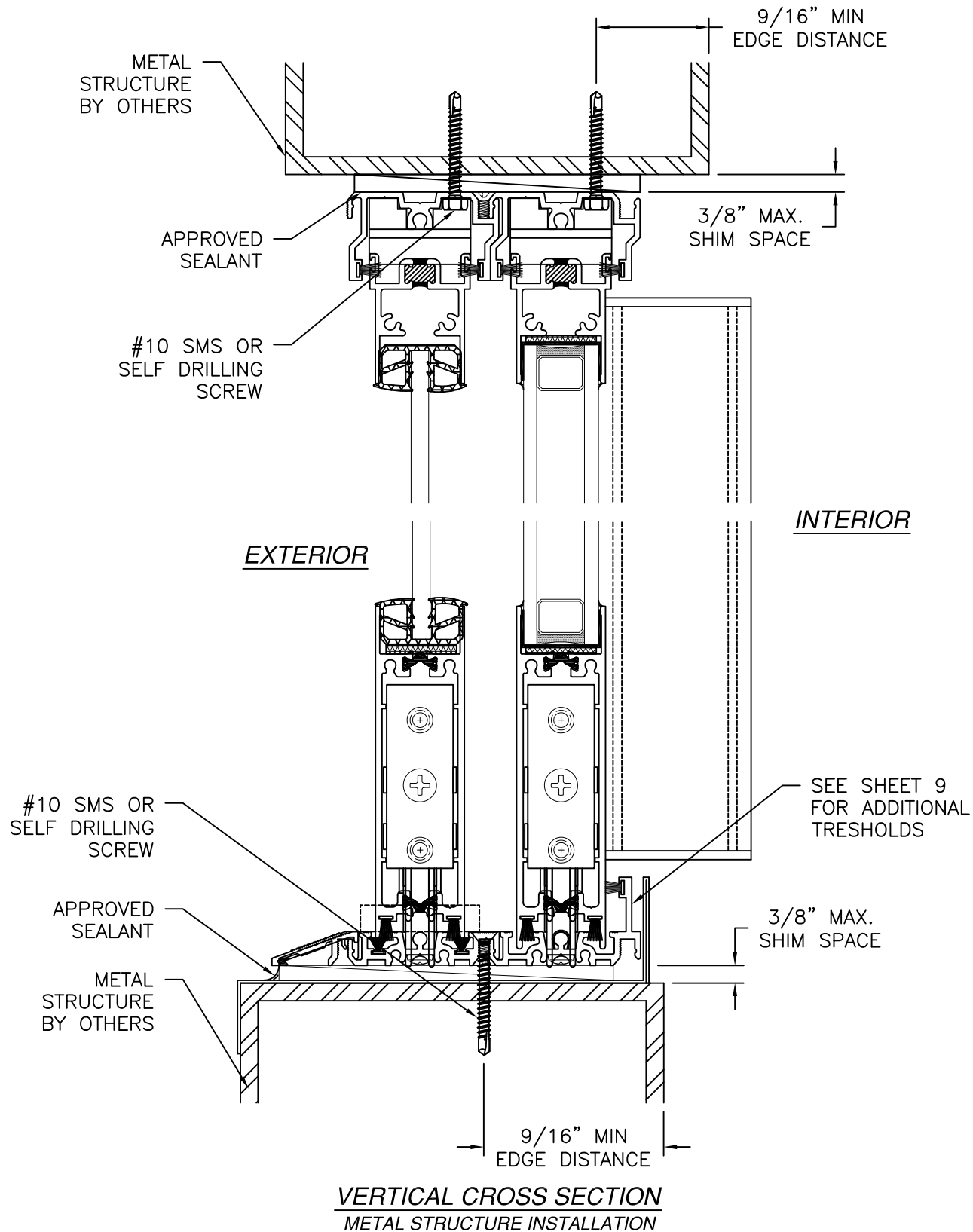
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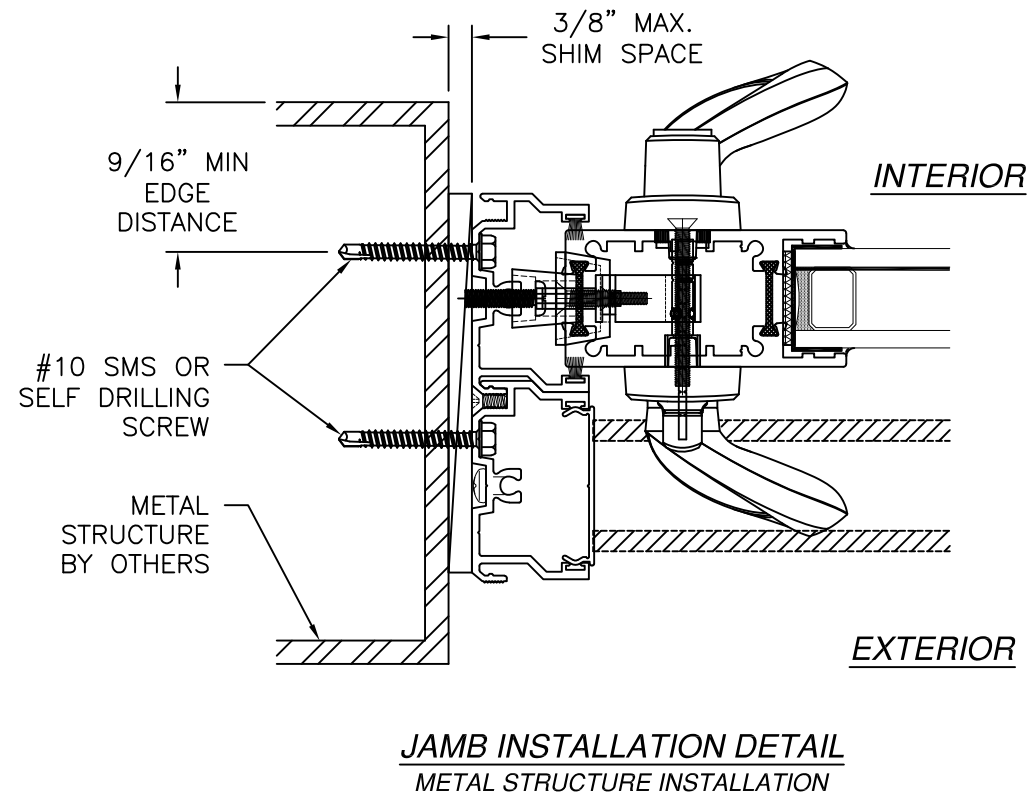


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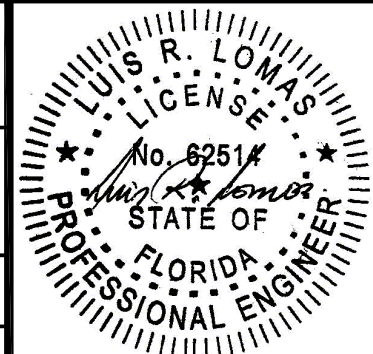


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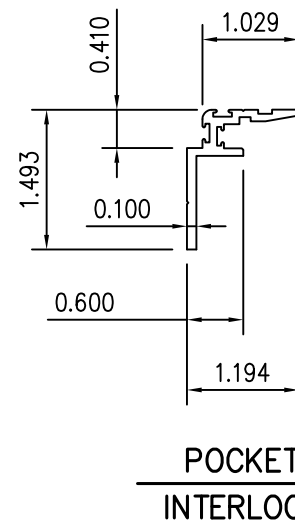
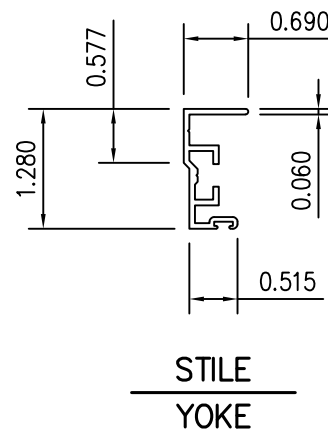
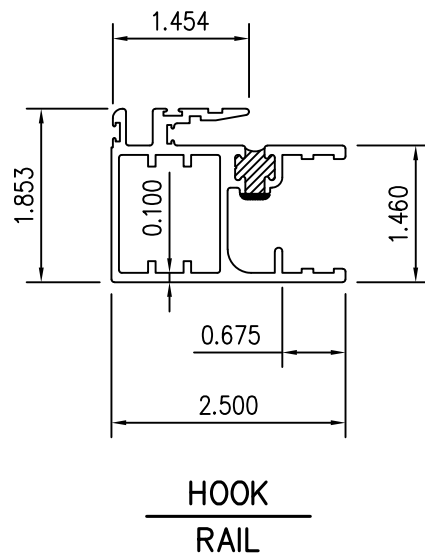
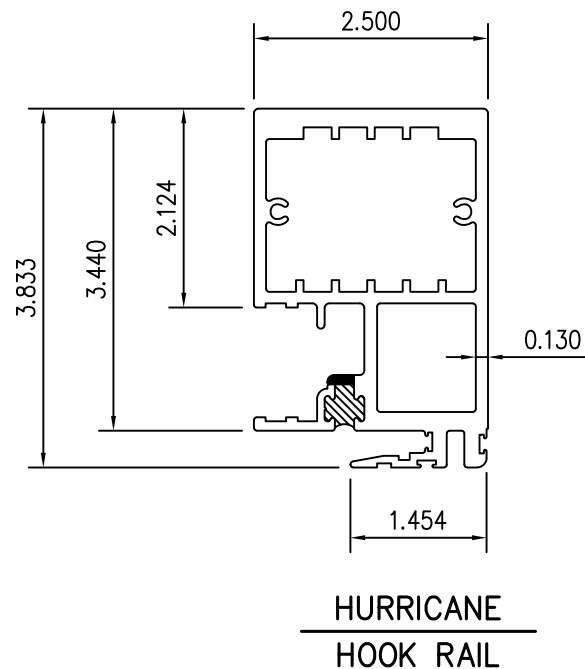
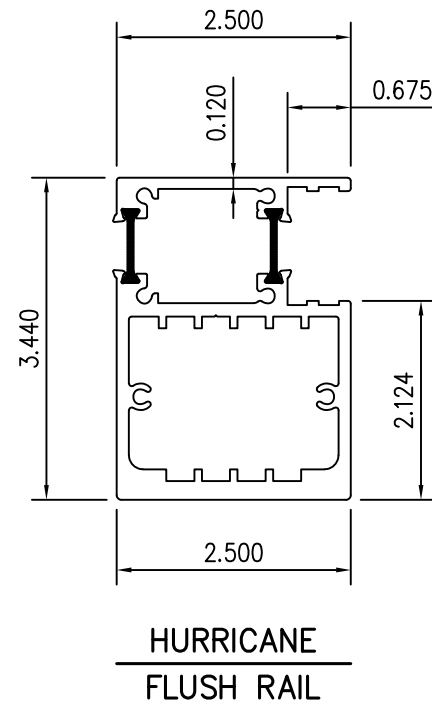
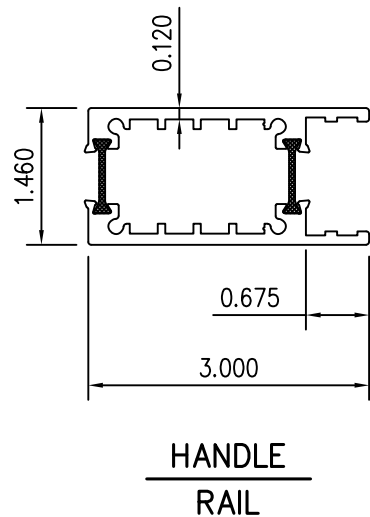
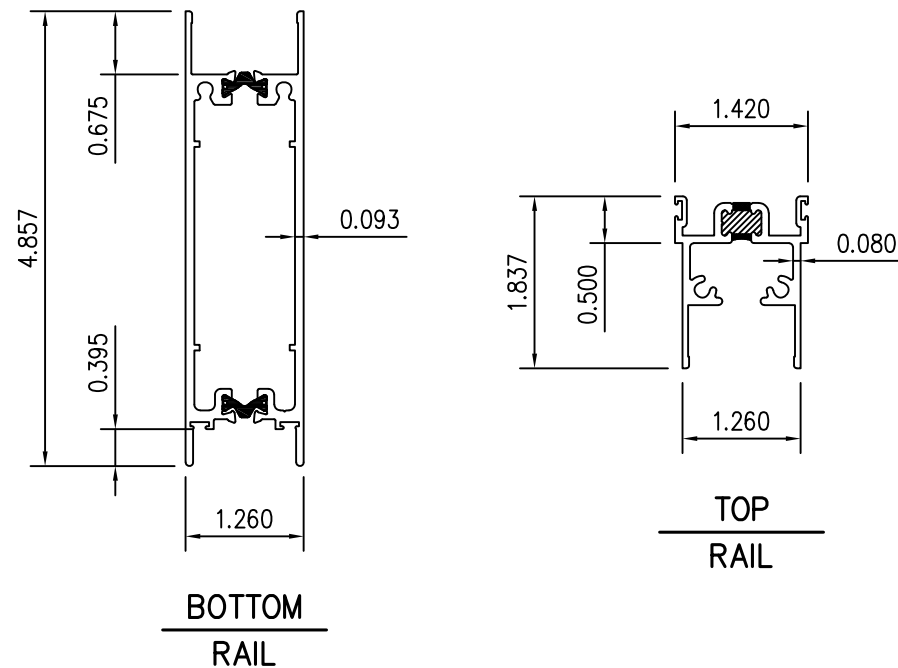
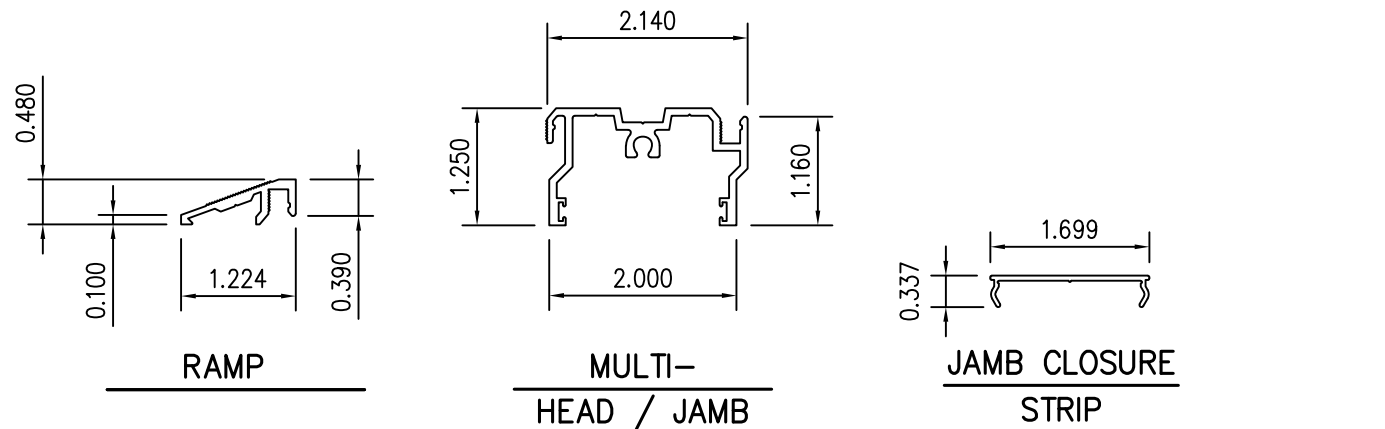


SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8100 SLIDING GLASS DOOR 5x8 PANEL NON-IMPACT HVHZ INSTALLATION DETAILS		
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SCALE NTS	DATE 04/15/19	SHEET 6 OF 8
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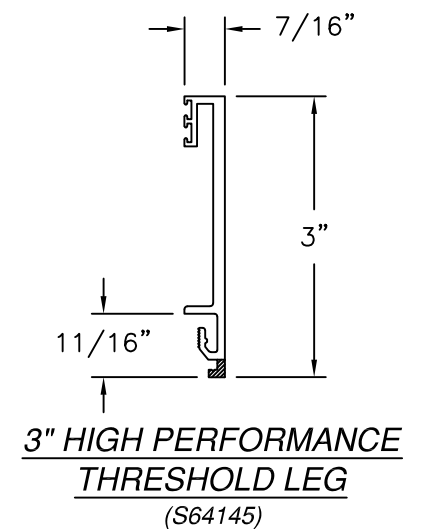
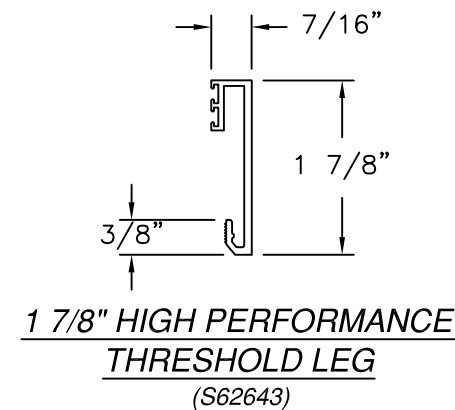
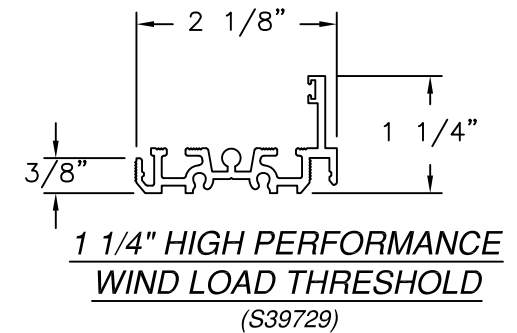
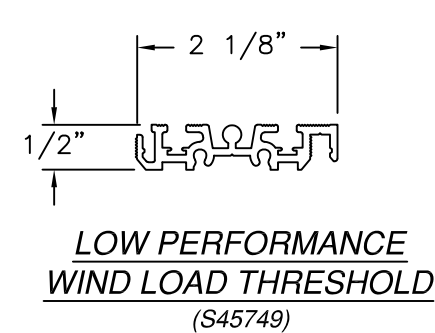
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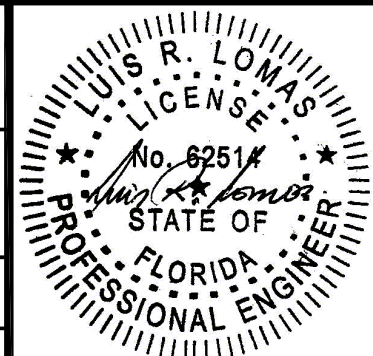
SOLAR INNOVATIONS, INC.
 31 ROBERTS RD
 PINE GROVE, PA 17963

SERIES SI8100 SLIDING GLASS DOOR
 5x8 PANEL NON-IMPACT HVHZ COMPONENTS

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