

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING 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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. 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.
5. 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.
6. 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.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. 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 1/4".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: EXTRUDED RIGID PVC.
12. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. 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.

15. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" OR 3/16" TAPCONS 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.
16. 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.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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:
 - A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM
19. APPROVED CONFIGURATIONS: OX, OX

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14	COMPONENTS

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

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
95" X 95" NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-03241

REV
A

SCALE NTS

DATE 04/17/18

SHEET 1 OF 14

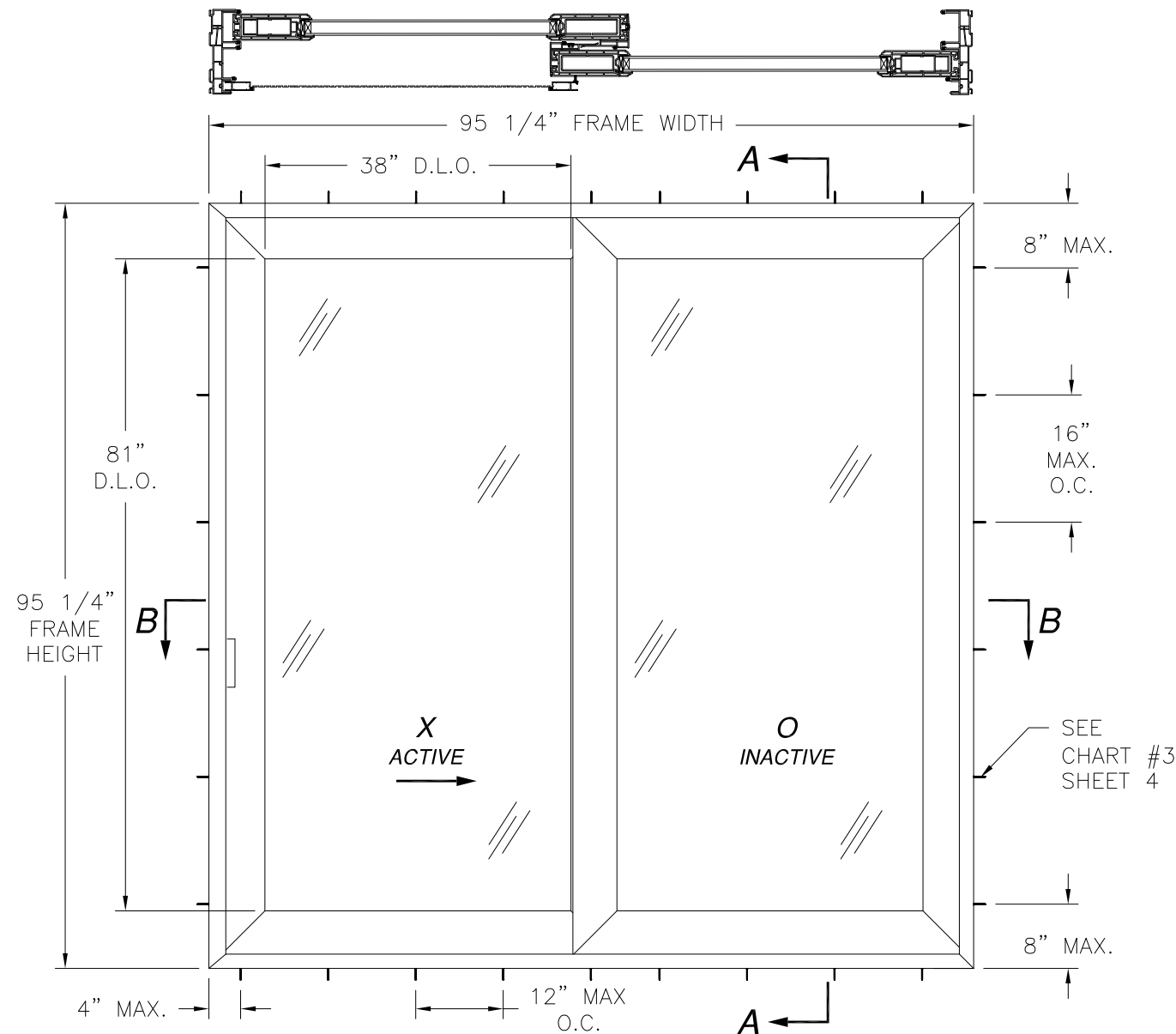
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/12/2020

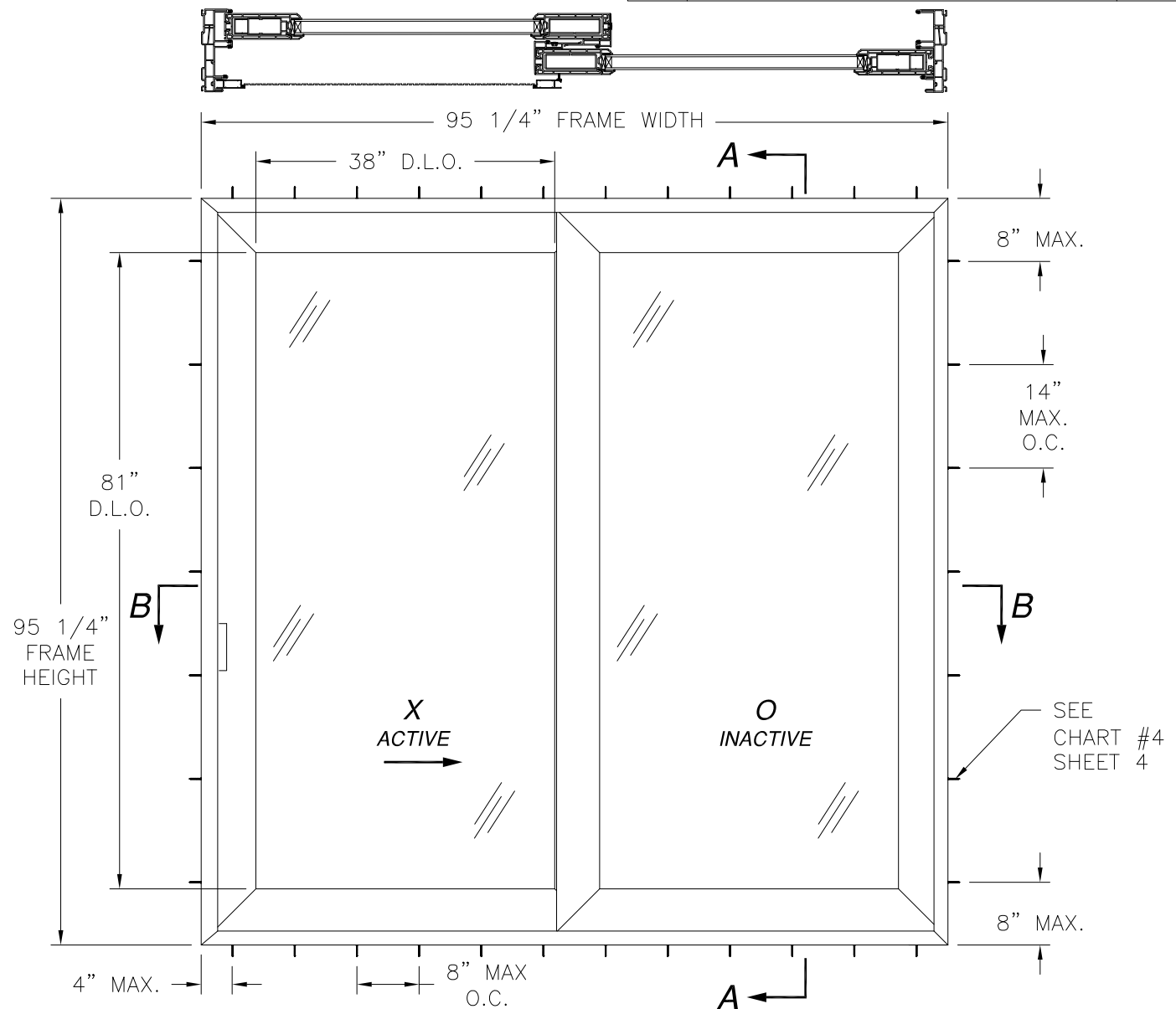


Luis R. Lomas P.E.
FL No.: 62514

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SERIES SI4100V VINYL COMPOSITE SLIDING GLASS DOOR
FRAME AND STRIP INSTALLATION
EXTERIOR VIEW
WITH #10 WOOD SCREWS, #10 SMS OR SELF DRILLING SCREWS AND 1/4" TAPCON



SERIES SI4100V VINYL COMPOSITE SLIDING GLASS DOOR
FRAME AND STRIP INSTALLATION
EXTERIOR VIEW
WHEN INSTALLED INTO MASONRY WITH 3/16" TAPCONS

SIGNED: 11/12/2020

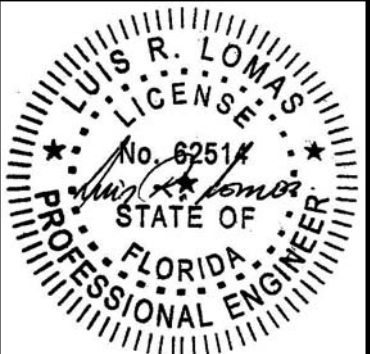
- NOTES:
1. ACTIVE PANEL SIZE: 49" X 92"
 2. INACTIVE PANEL SIZE: 49" X 91 3/4"

HARDWARE SCHEDULE	
A.	(1) TWIN POINT WITH KEEPER AND SHIM, 36" UP FROM BOTTOM OF SILL.
B.	(1) HANDLE - TRUTH, 34" UP FROM BOTTOM OF STILE INTERIOR AND EXTERIOR
C.	(2) TANDEM ROLLER, AT BOTTOM CORNERS OF ACTIVE PANEL.
D.	(1) SCREEN HANDLE AND KEEPER, 37 1/4" UP FROM BOTTOM OF SILL
E.	ALUMINUM REINFORCEMENT, AT PANEL STILES AND RAILS.

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

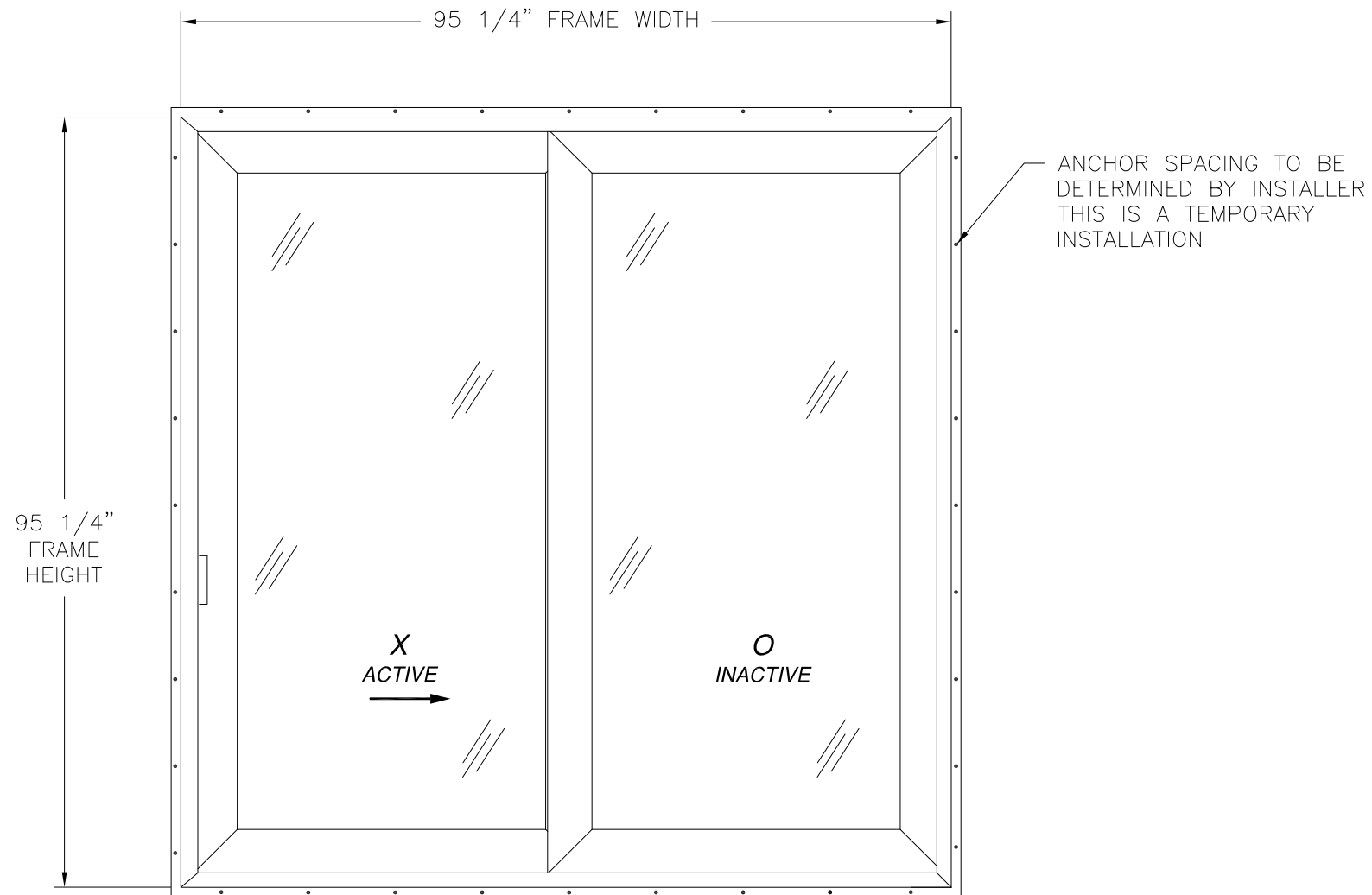
OX AND XO CONFIGURATIONS ARE QUALIFIED.
49" X 92" PANEL SHOWN. OTHER PANEL SIZES ARE QUALIFIED AS
LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 31.30 FT²
SEE CHART #1, #2, #3 AND #4 SHEET 3

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 95" X 95" NON-IMPACT ELEVATION		
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 2 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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SERIES SI4100V VINYL COMPOSITE SLIDING GLASS DOOR
FIN INSTALLATION FOR TEMPORARY PURPOSES ONLY.
ALL STRUCTURAL CONNECTIONS MUST BE INSTALLED AS SHOWN IN SHEET 2
EXTERIOR VIEW

SIGNED: 11/12/2020

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 95" X 95" NON-IMPACT FIN ELEVATION (FOR TEMPORARY PURPOSES ONLY)		
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 3 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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Chart #1

Maximum Design pressure (psf)																		
Panel Height (in)	Single Panel Width (in)																	
	24.00		27.00		30.00		33.00		36.00		39.00		42.00		45.00		49.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	50.0	75.0	50.0	75.0	50.0	75.0	50.0	75.0	50.0	74.1	50.0	70.1	50.0	66.7	50.0	62.6	50.0	57.5
84.00	50.0	75.0	50.0	75.0	50.0	75.0	50.0	74.2	50.0	69.6	50.0	65.7	50.0	62.5	50.0	59.6	50.0	54.8
90.00	50.0	75.0	50.0	75.0	50.0	73.5	50.0	68.2	50.0	63.8	50.0	60.1	50.0	57.1	50.0	54.4	50.0	51.1
92.00	50.0	75.0	50.0	75.0	50.0	71.6	50.0	66.4	50.0	62.1	50.0	58.5	50.0	55.5	50.0	52.9	50.0	50.0
96.00	50.0	75.0	50.0	73.4	50.0	66.5	50.0	61.0	50.0	56.4	50.0	52.6	49.4	49.4	46.6	46.6	-	-
102.00	50.0	68.1	50.0	60.9	50.0	55.2	50.0	50.6	46.7	46.7	43.5	43.5	40.8	40.8	-	-	-	-
108.00	50.0	57.3	50.0	51.2	46.3	46.3	42.4	42.4	39.2	39.2	36.4	36.4	-	-	-	-	-	-
114.00	48.6	48.6	43.4	43.4	39.3	39.3	35.9	35.9	33.1	33.1	30.8	30.8	-	-	-	-	-	-
120.00	41.6	41.6	37.1	37.1	33.6	33.6	30.7	30.7	28.3	28.3	-	-	-	-	-	-	-	-
126.00	35.9	35.9	32.0	32.0	28.9	28.9	26.4	26.4	-	-	-	-	-	-	-	-	-	-
132.00	31.2	31.2	27.8	27.8	25.1	25.1	22.9	22.9	-	-	-	-	-	-	-	-	-	-
138.00	27.2	27.2	24.3	24.3	21.9	21.9	-	-	-	-	-	-	-	-	-	-	-	-
144.00	24.0	24.0	21.4	21.4	19.3	19.3	-	-	-	-	-	-	-	-	-	-	-	-

WHERE WATER PENETRATION IS REQUIRED

Chart #2

Maximum Design pressure (psf)																		
Panel Height (in)	Single Panel Width (in)																	
	24.00		27.00		30.00		33.00		36.00		39.00		42.00		45.00		49.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.1	74.1	70.1	70.1	66.7	66.7	62.6	62.6	57.5	57.5
84.00	75.0	75.0	75.0	75.0	75.0	75.0	74.2	74.2	69.6	69.6	65.7	65.7	62.5	62.5	59.6	59.6	54.8	54.8
90.00	75.0	75.0	75.0	75.0	73.5	73.5	68.2	68.2	63.8	63.8	60.1	60.1	57.1	57.1	54.4	54.4	51.1	51.1
92.00	75.0	75.0	75.0	75.0	71.6	71.6	66.4	66.4	62.1	62.1	58.5	58.5	55.5	55.5	52.9	52.9	50.0	50.0
96.00	75.0	75.0	73.4	73.4	66.5	66.5	61.0	61.0	56.4	56.4	52.6	52.6	49.4	49.4	46.6	46.6	-	-
102.00	68.1	68.1	60.9	60.9	55.2	55.2	50.6	50.6	46.7	46.7	43.5	43.5	40.8	40.8	-	-	-	-
108.00	57.3	57.3	51.2	51.2	46.3	46.3	42.4	42.4	39.2	39.2	36.4	36.4	-	-	-	-	-	-
114.00	48.6	48.6	43.4	43.4	39.3	39.3	35.9	35.9	33.1	33.1	30.8	30.8	-	-	-	-	-	-
120.00	41.6	41.6	37.1	37.1	33.6	33.6	30.7	30.7	28.3	28.3	-	-	-	-	-	-	-	-
126.00	35.9	35.9	32.0	32.0	28.9	28.9	26.4	26.4	-	-	-	-	-	-	-	-	-	-
132.00	31.2	31.2	27.8	27.8	25.1	25.1	22.9	22.9	-	-	-	-	-	-	-	-	-	-
138.00	27.2	27.2	24.3	24.3	21.9	21.9	-	-	-	-	-	-	-	-	-	-	-	-
144.00	24.0	24.0	21.4	21.4	19.3	19.3	-	-	-	-	-	-	-	-	-	-	-	-

WHERE WATER PENETRATION IS NOT REQUIRED

Chart #3

Number of anchor locations required																				
Frame Height (in)	Frame Unit Width (in)																			
	45.25		51.25		57.25		63.25		69.25		75.25		81.25		87.25		95.25			
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
80.0	5	5	6	5	6	5	7	5	8	5	8	5	8	5	8	5	9	5		
84.0	5	6	6	6	7	6	7	6	8	6	8	6	8	6	8	6	9	6		
90.0	5	6	6	6	7	6	7	6	7	6	8	6	8	6	8	6	9	6		
92.0	6	6	6	6	7	6	7	6	7	6	7	6	8	6	8	6	9	6		
96.0	6	6	6	6	7	6	7	6	7	6	7	6	8	6	8	6	-	-		
102.0	6	7	6	7	6	7	6	7	7	7	7	7	8	7	-	-	-	-		
108.0	5	7	5	7	6	7	6	7	7	7	7	7	-	-	-	-	-	-		
114.0	5	8	5	8	6	8	6	8	7	8	7	8	-	-	-	-	-	-		
120.0	5	8	5	8	6	8	6	8	7	8	-	-	-	-	-	-	-	-		
126.0	5	8	5	8	6	8	6	8	-	-	-	-	-	-	-	-	-	-		
132.0	5	9	5	9	6	9	6	9	-	-	-	-	-	-	-	-	-	-		
138.0	5	9	5	9	6	9	-	-	-	-	-	-	-	-	-	-	-	-		
144.0	5	9	5	9	6	9	-	-	-	-	-	-	-	-	-	-	-	-		

Chart #4

Number of anchor locations required, for 3/16" Tapcons only																				
Frame Height (in)	Frame Unit Width (in)																			
	45.25		51.25		57.25		63.25		69.25		75.25		81.25		87.25		95.25			
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
80.0	6	6	7	6	8	6	9	6	10	7	10	7	11	7	11	7	12	6		
84.0	7	6	8	6	8	6	9	7	10	7	10	7	11	7	11	7	12	7		
90.0	7	7	8	7	9	7	9	7	9	7	10	7	11	7	11	7	12	7		
92.0	7	7	8	7	9	7	9	7	9	7	10	7	11	7	11	7	12	7		
96.0	7	7	8	7	8	7	9	7	9	7	10	7	11	7	11	7	-	-		
102.0	7	8	7	8	8	8	8	8	9	8	10	8	11	8	-	-	-	-		
108.0	6	8	7	8	8	8	8	8	9	8	10	8	-	-	-	-	-	-		
114.0	6	8	7	8	8	8	8	8	9	8	10	8	-	-	-	-	-	-		
120.0	6	9	7	9	8	9	8	9	9	9	-	-	-	-	-	-	-	-		
126.0	6	9	7	9	8	9	8	9	-	-	-	-	-	-	-	-	-	-		
132.0	6	10	7	10	8	10	8	10	-	-	-	-	-	-	-	-	-	-		
138.0	6	10	7	10	8	10	-	-	-	-	-	-	-	-	-	-	-	-		
144.0	6	11	7	11	8	11	-	-	-	-	-	-	-	-	-	-	-	-		

SIGNED: 11/12/2020

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
95" X 95" NON-IMPACT
DESIGN PRESSURE CHARTS

DRAWN:
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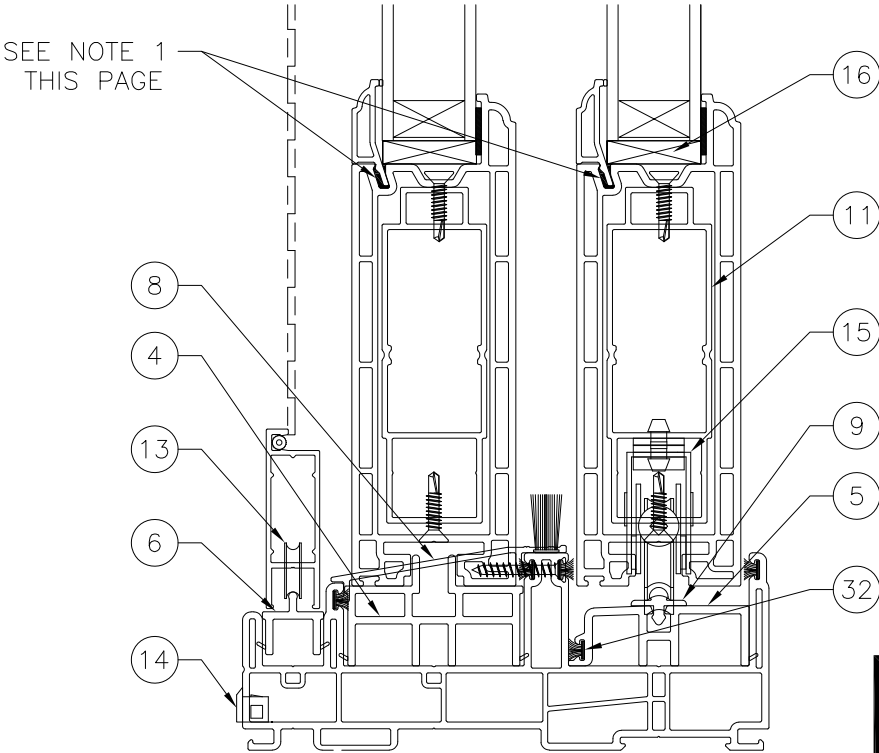
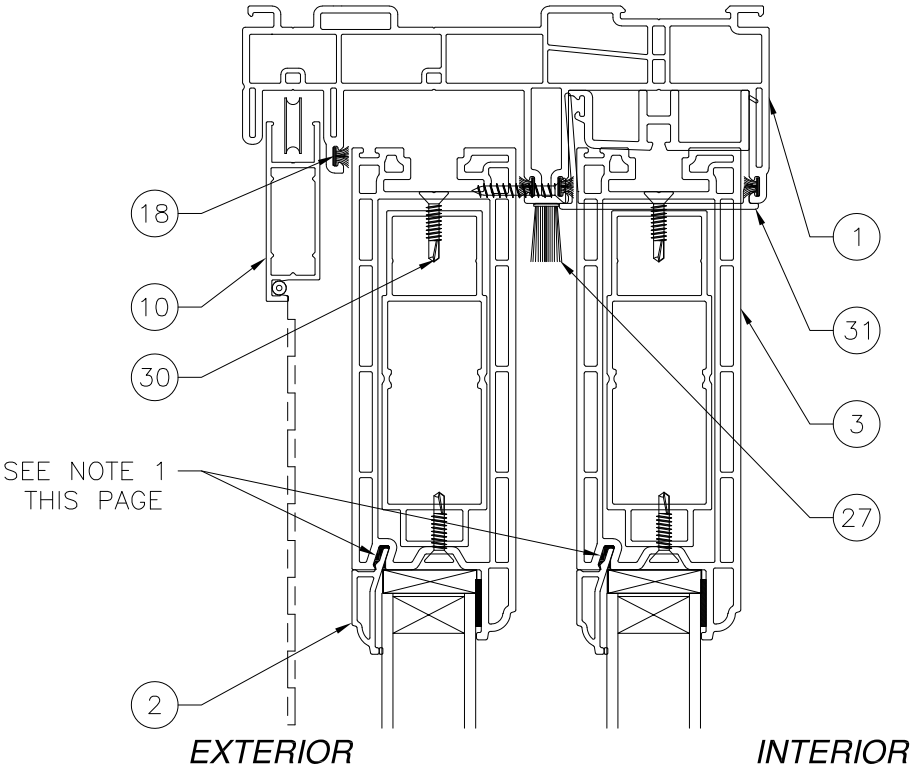
SHEET 4 OF 14

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PARTS LIST		
NO.	PART NUMBER	DESCRIPTION
1	S003	FRAME, PVC
2	S021	1" GLAZING BEAD, PVC
3	S017	SASH, PVC
4	S008	SUPPORT BLOCK, PVC
5	S018	SILL ADAPTER, PVC
6	7059	SCREEN ADAPTER
7	S084	SNAP-ON MEETING RAIL, PVC
8		SILL (ALUMINUM 6063-T5)
9		SASH RAIL (ALUMINUM 6063-T5)
10		SCREEN
11		ROLLER SUPPORT (ALUMINUM 6063-T5)
12		SASH REINFORCEMENT (ALUMINUM 6063-T5)
13		SCREEN ROLLER
14	110-2550-10	WEEP COVER (RO-MAI)
15		TANDEM ROLLER
16		SETTING BLOCK (1"X.25"x2" 80 DUROMETER)
17		SEALANT DOW 995 (DOW CORNING)
18	HF-7320-187	WEATHER STRIP (SCLEGEL)
19	SS-6945	WEATHERSTRIP (SCLEGEL)
20		SCREEN HANDLE INTERIOR AND EXTERIOR
21		SCREEN KEEPER
22		SASH KEEPER
23		SASH HANDLE INTERIOR AND EXTERIOR
24		SCREEN KEEPER SCREWS FH # 6 X 1/2"
25		SASH KEEPER SCREWS FH #8 X 5/8"
26		FIXED SASH SCREWS FH #6 X 1"
27	T5927AMW	6" WEATHERSTRIP (ULTRAFAB)
28	EAQ705	SCREW PLUG
29	S030	LOCK SIDE MOLDING
30		REINFORCEMENT SCREWS SMS #8 X 3/4"
31	S029	SASH TOP
32	PB-8322-187	WEATHERSTRIP (SCHLEGEL)
33		MEETING RAIL REINFORCEMENT (STEEL)
34		MEETING RAIL SCREWS FH #6 X 3/4"
35		INSTALLATION STRIP



SECTION A-A

REVISIONS			
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FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO
SHEETS 5 - 10

NOTES:
1. INSTALL SILICONE 4" @ CORNERS BEFORE
INSERTING GLAZING BEAD

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31 ROBERTS ROAD
PINE GROVE, PA 17963

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95" X 95" NON-IMPACT
B.O.M. AND CROSS SECTIONS

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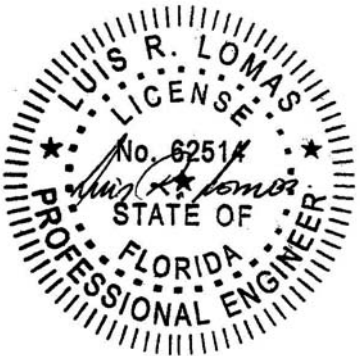
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5 OF 14

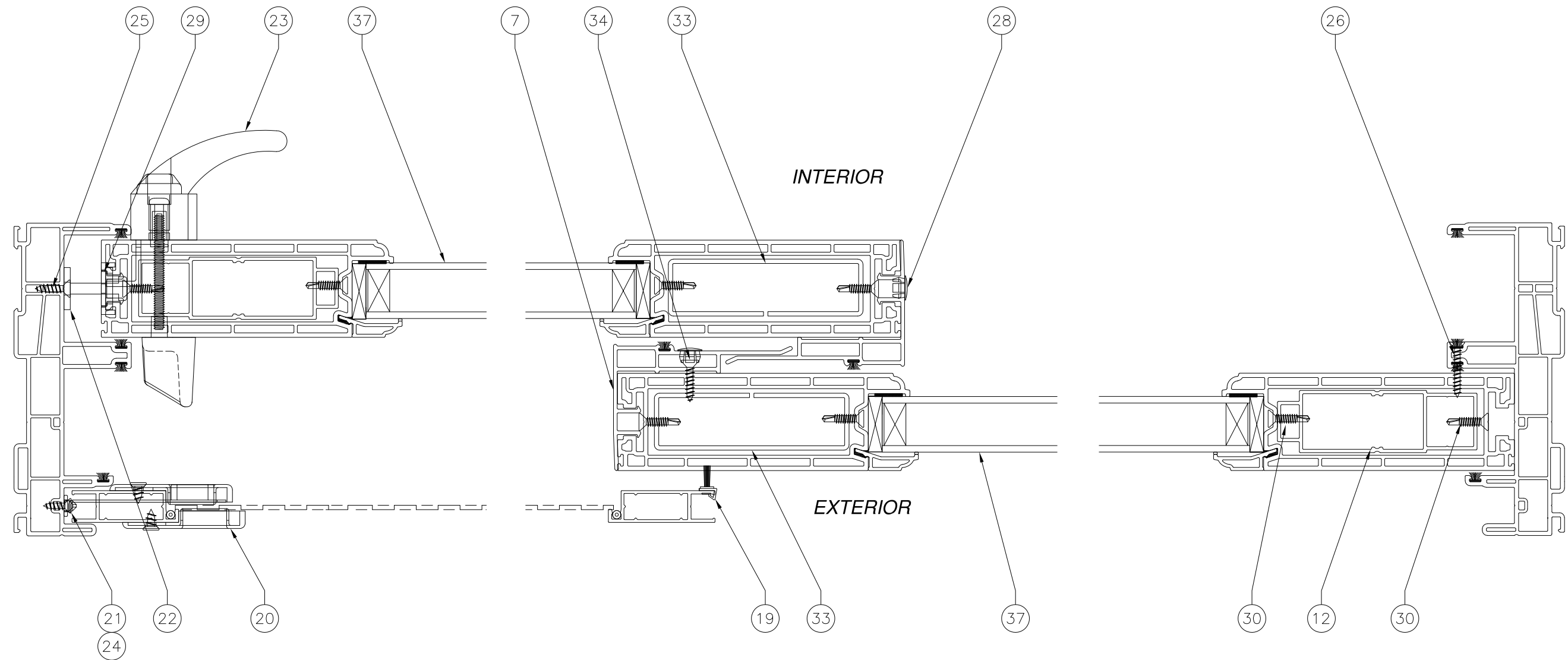
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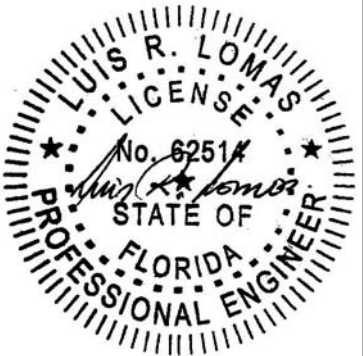
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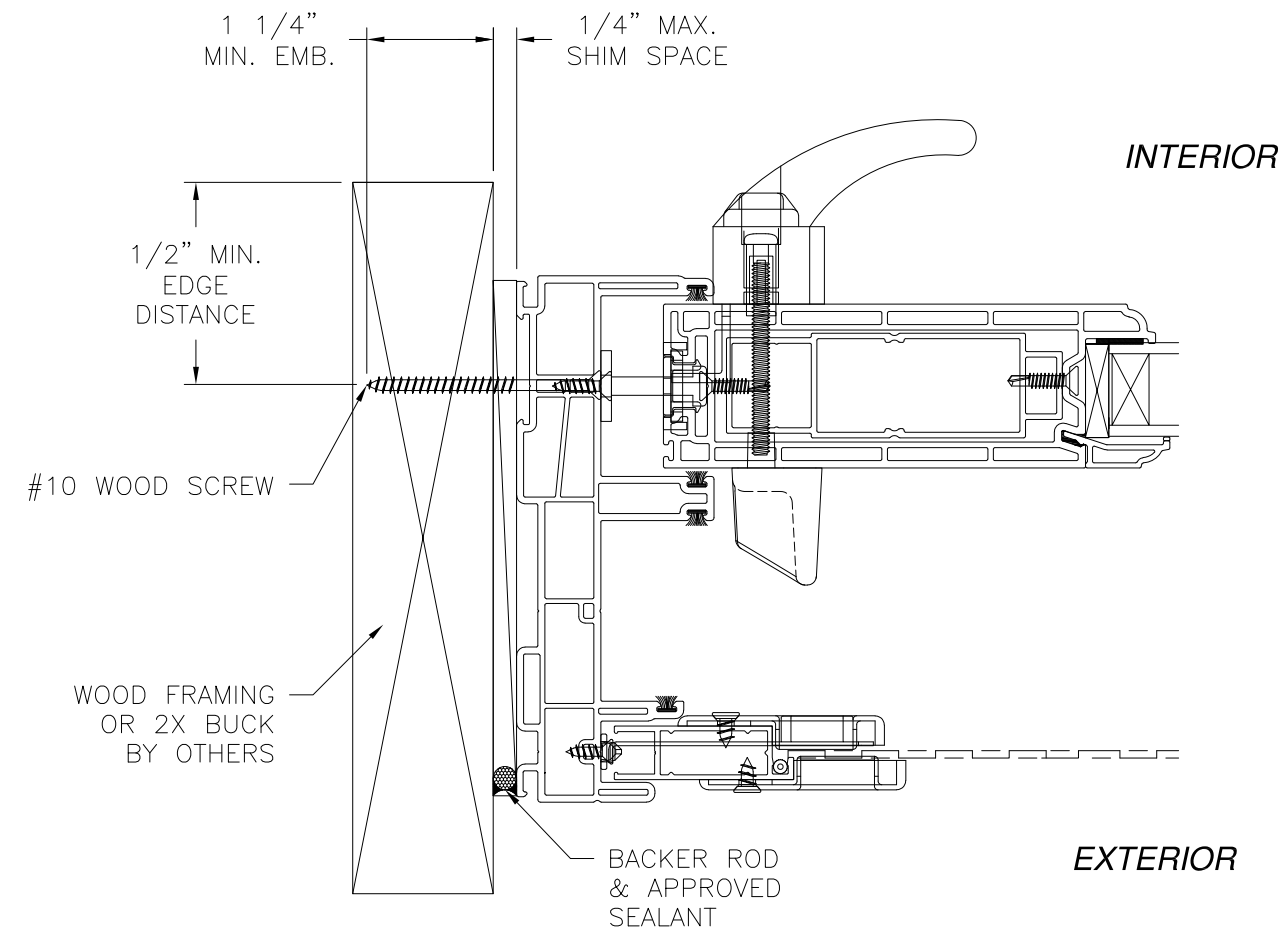
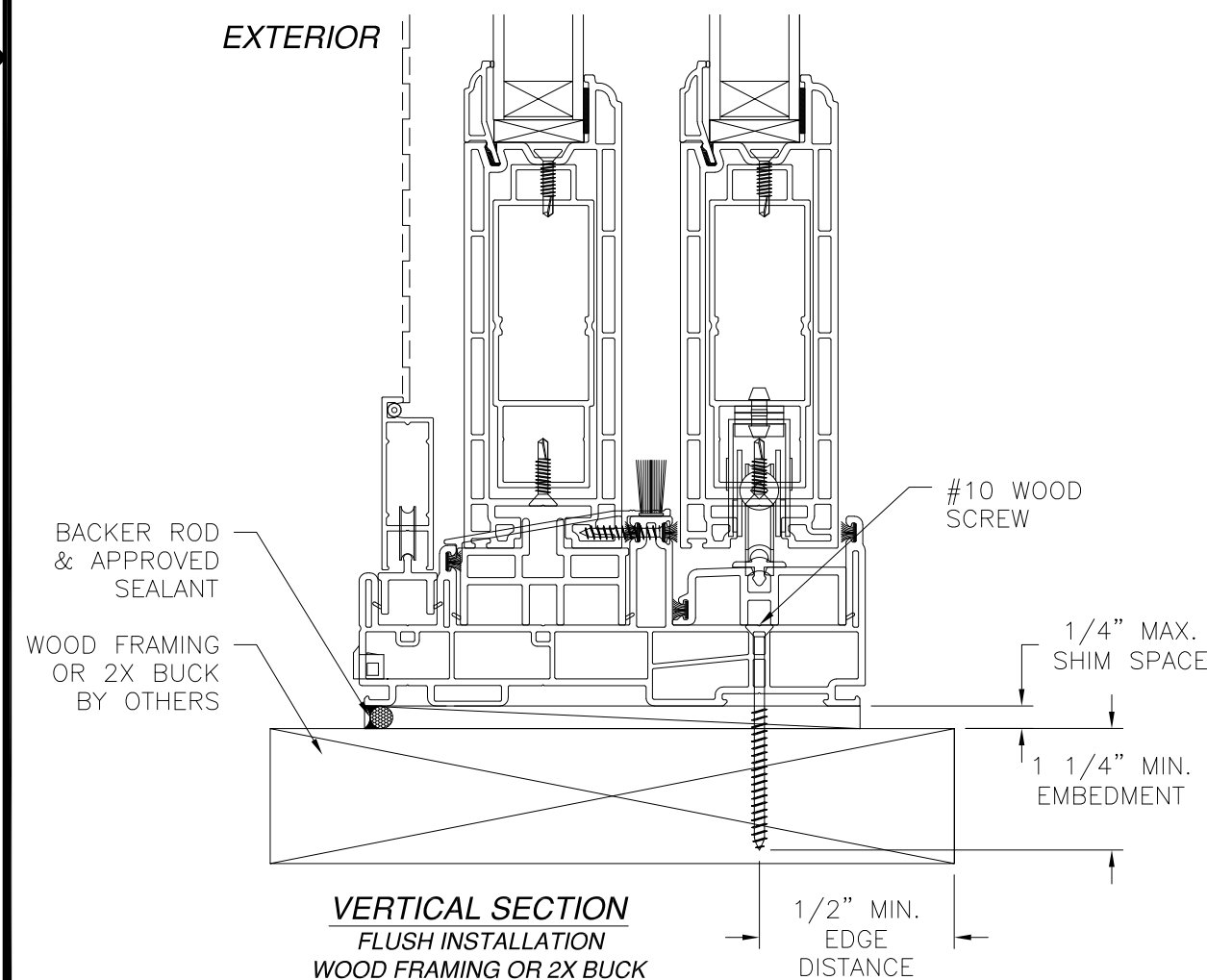
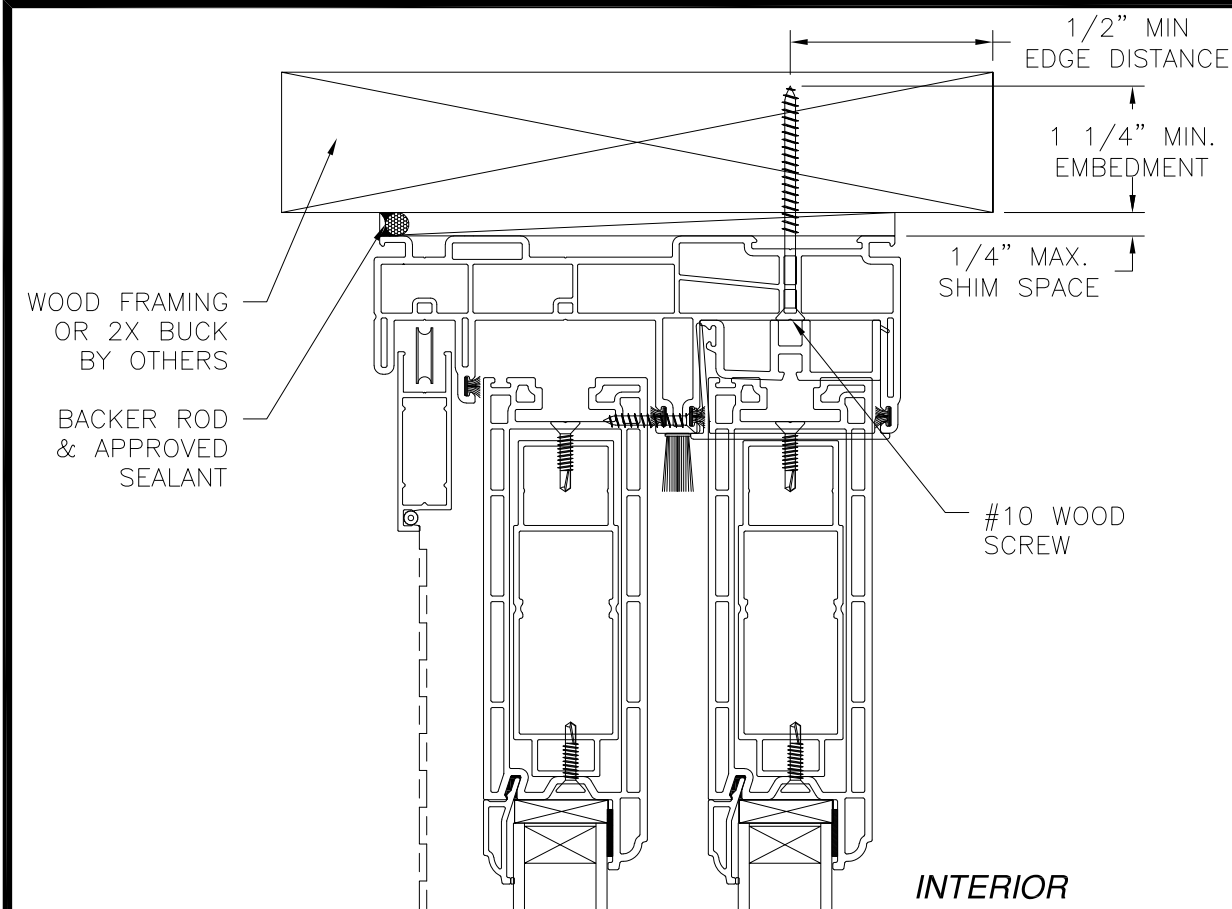
SECTION B-B

SIGNED: 11/12/2020

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 95" X 95" NON-IMPACT CROSS SECTIONS		
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 6 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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



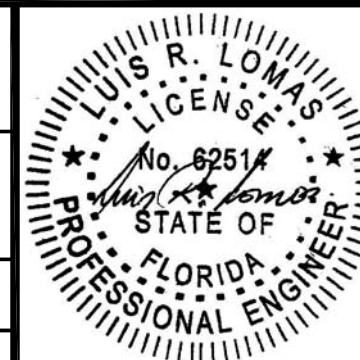
HORIZONTAL SECTION
FLUSH INSTALLATION
WOOD FRAMING OR 2X BUCK

- 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

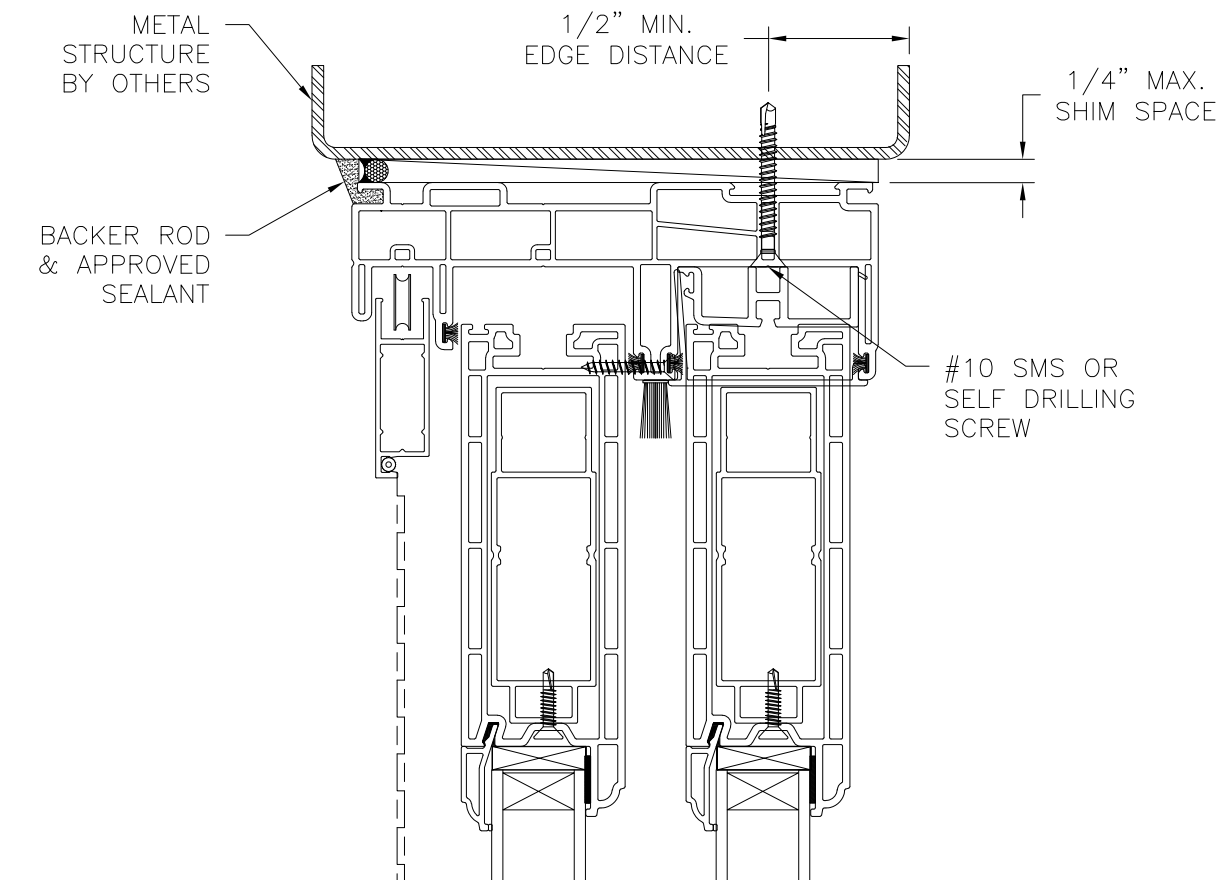
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 95" X 95" NON-IMPACT FRAME INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 7 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/12/2020

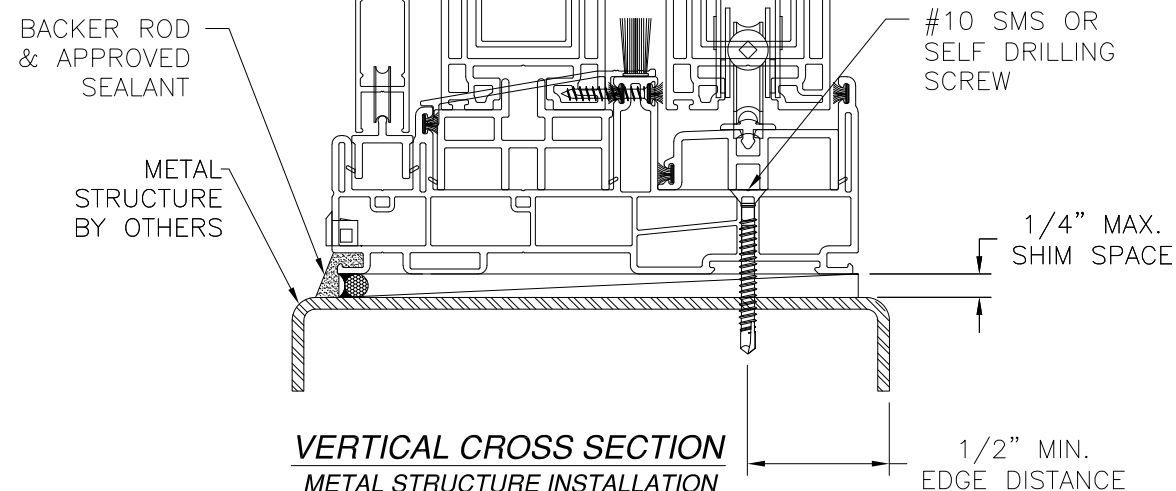


Luis R. Lomas P.E.
FL No.: 62514

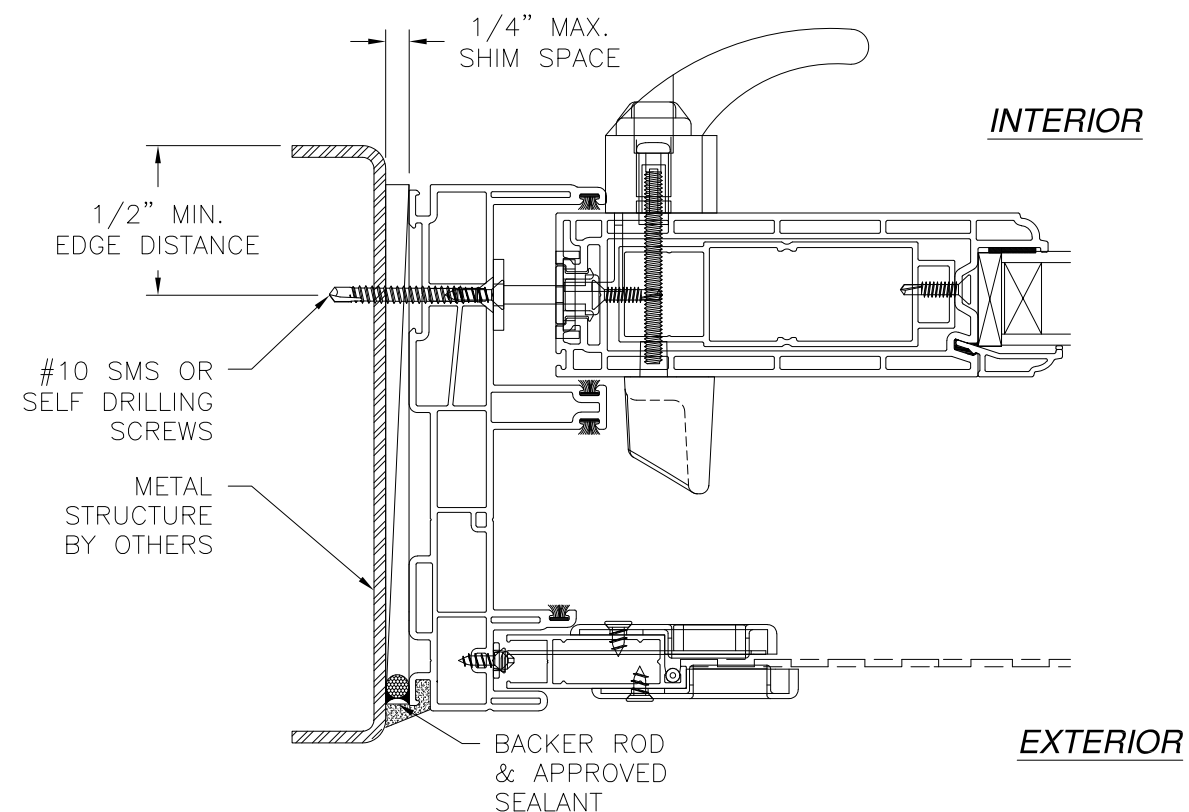


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



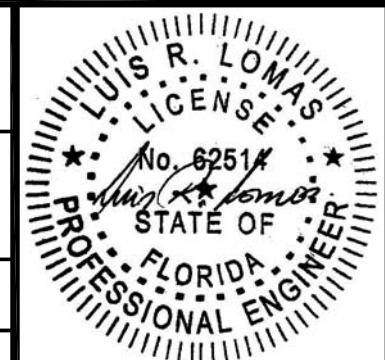
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

- 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

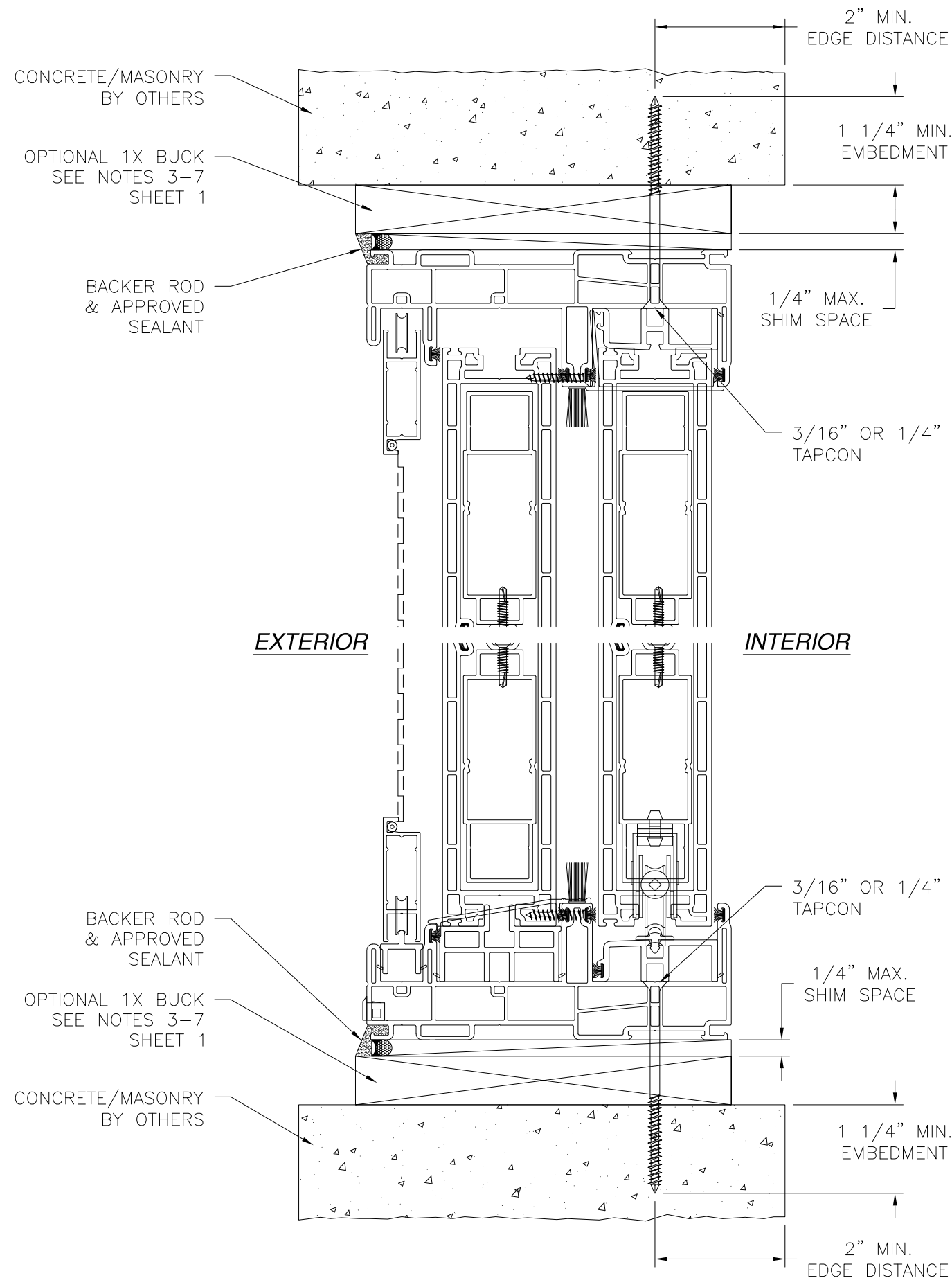
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 95" X 95" NON-IMPACT FRAME INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 8 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/12/2020

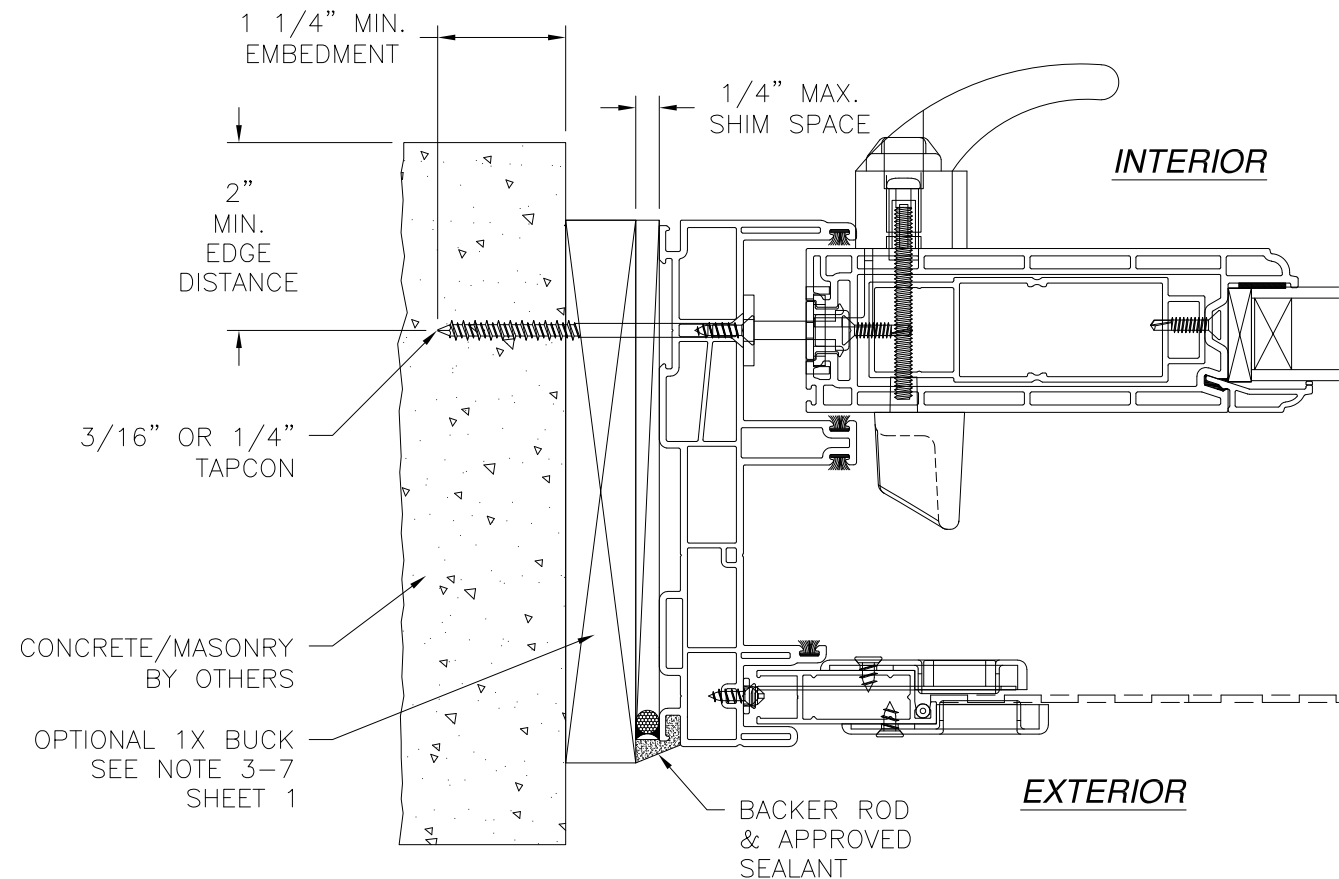


Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY FLUSH INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.

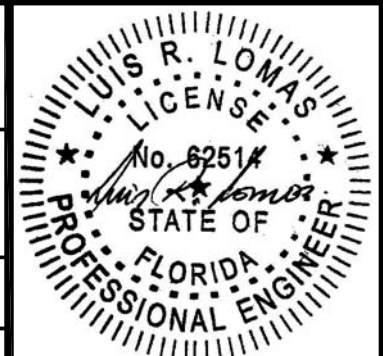


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY FLUSH INSTALLATION

- 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

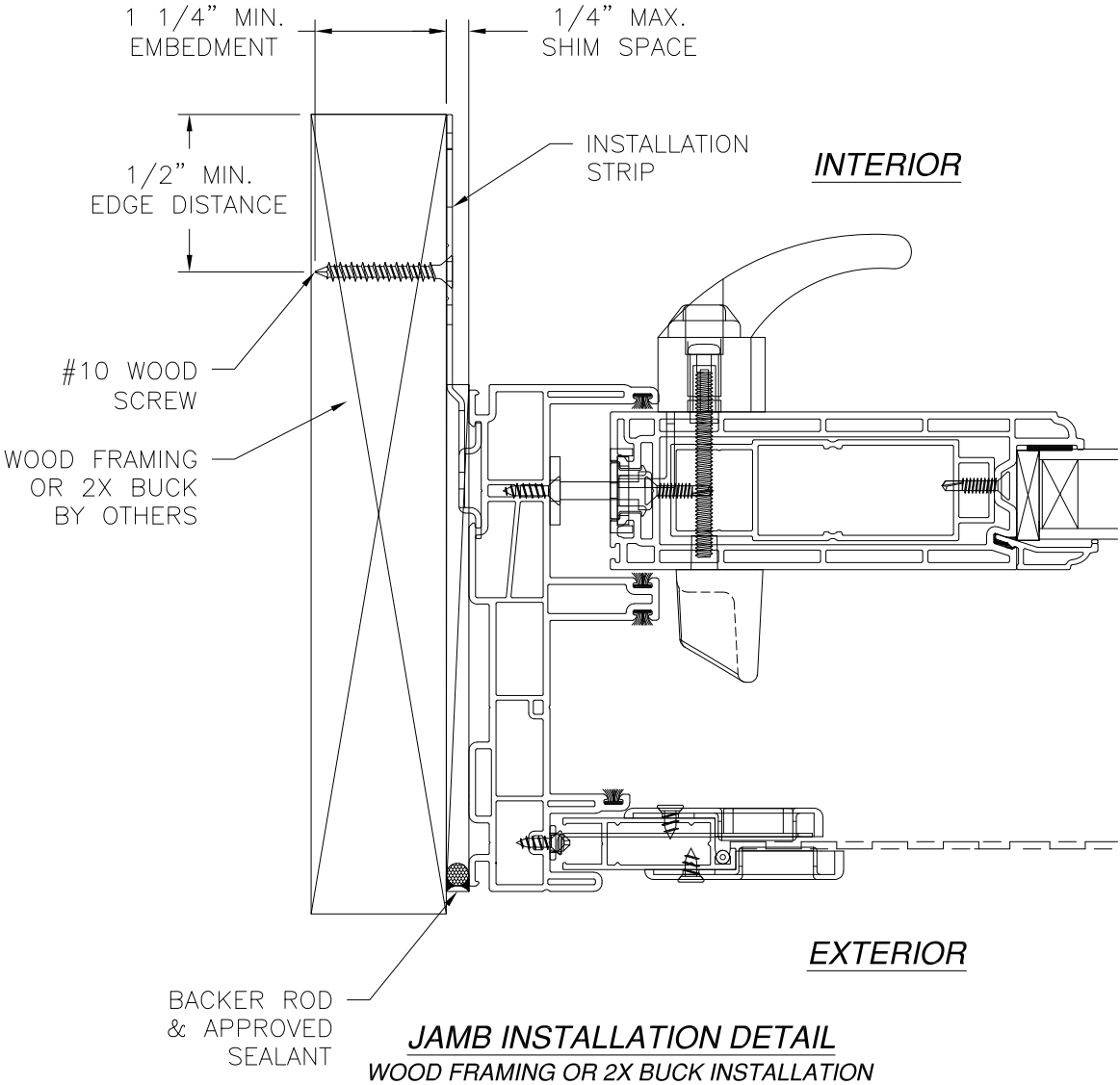
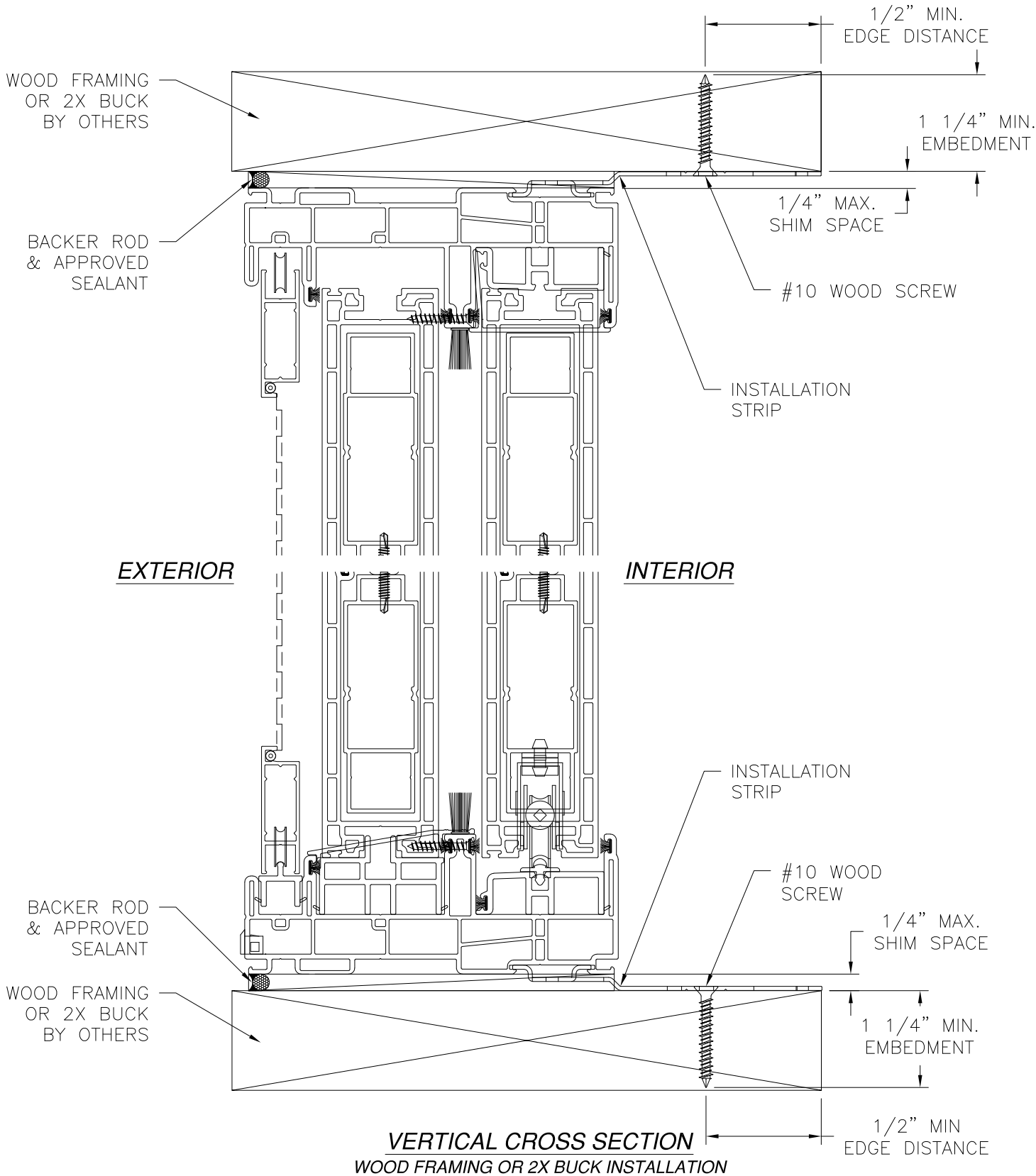
SIGNED: 11/12/2020

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 95" X 95" NON-IMPACT FRAME INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 9 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.



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

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)

95" X 95" NON-IMPACT
STRIP INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03241

REV A

SCALE NTS

DATE 04/17/18

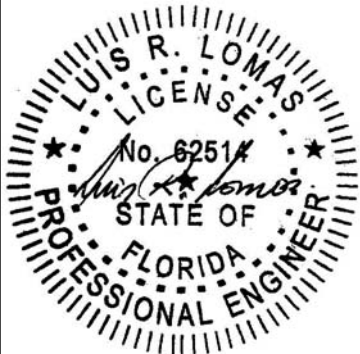
SHEET 10 OF 14

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

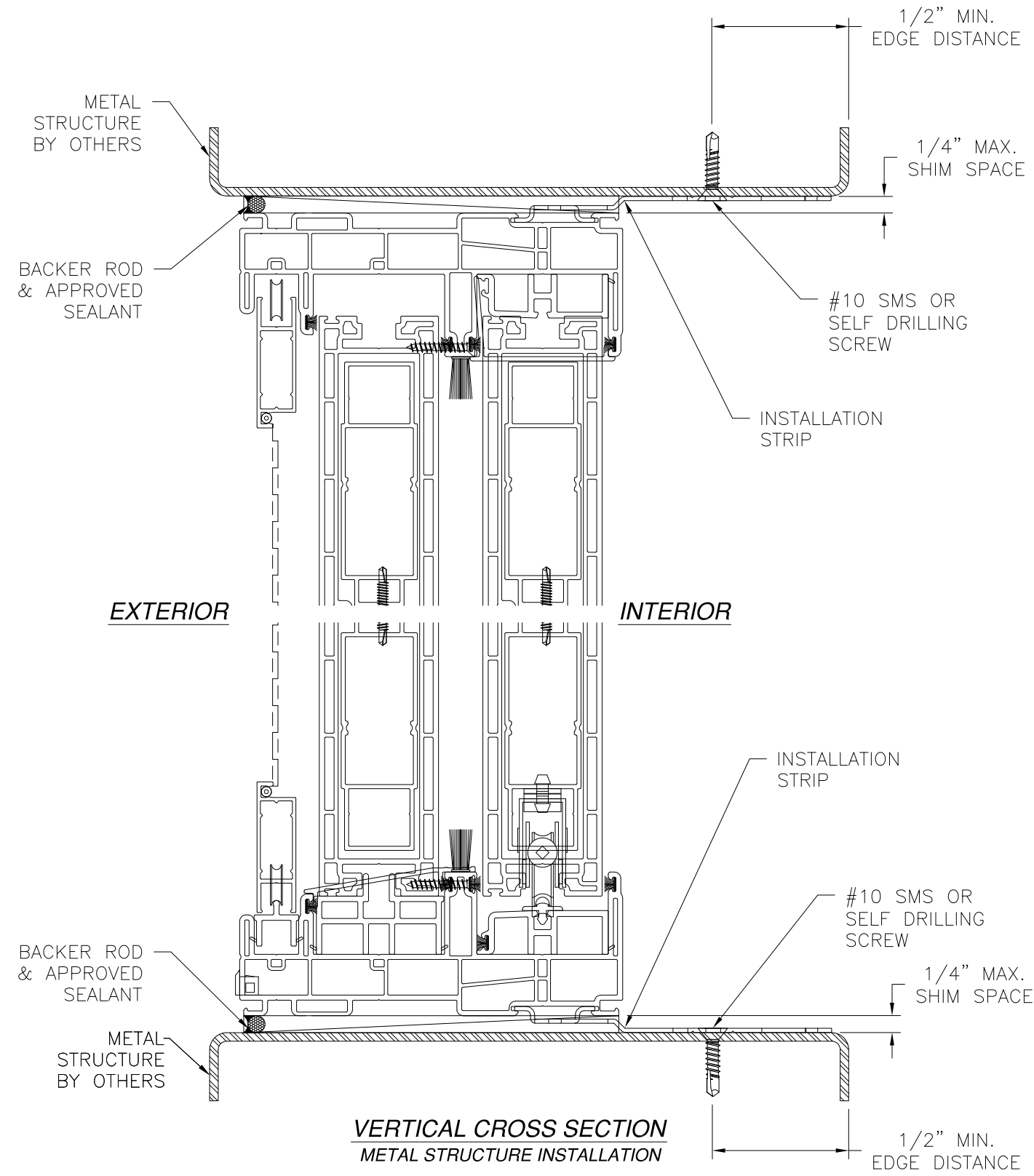
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/12/2020

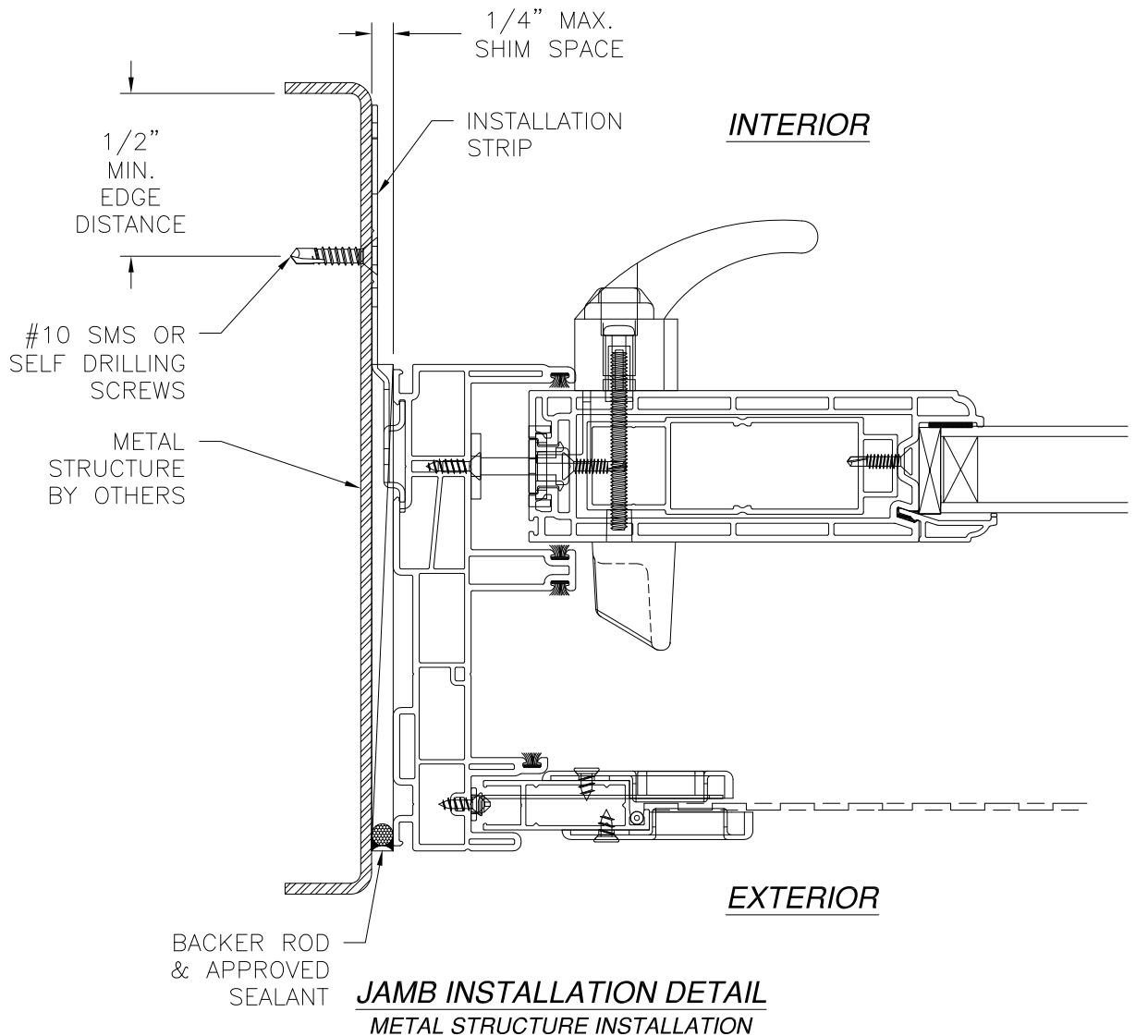


Luis R. Lomas P.E.
 FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.



NOTES:
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



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

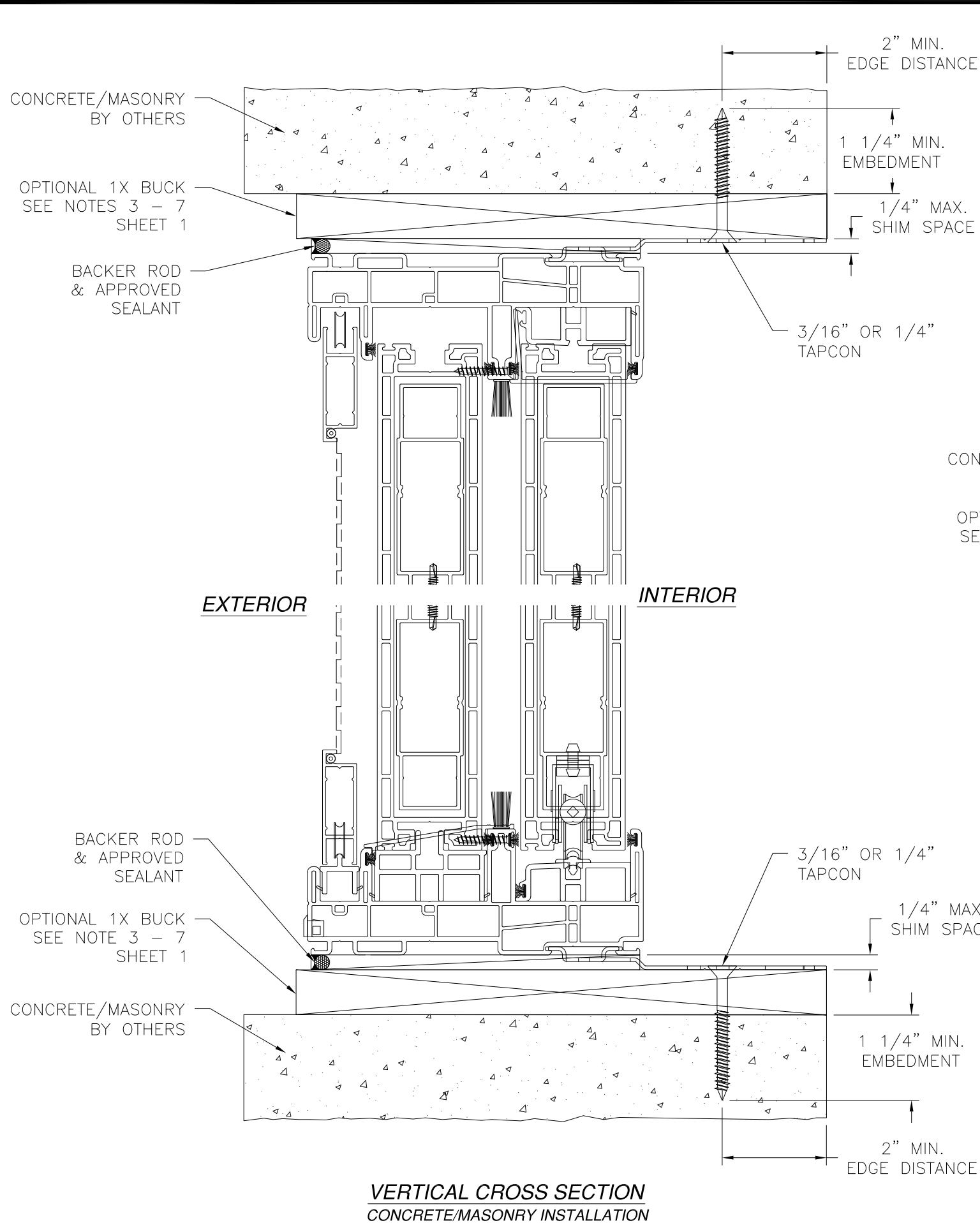
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
95" X 95" NON-IMPACT
STRIP INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 11 OF 14

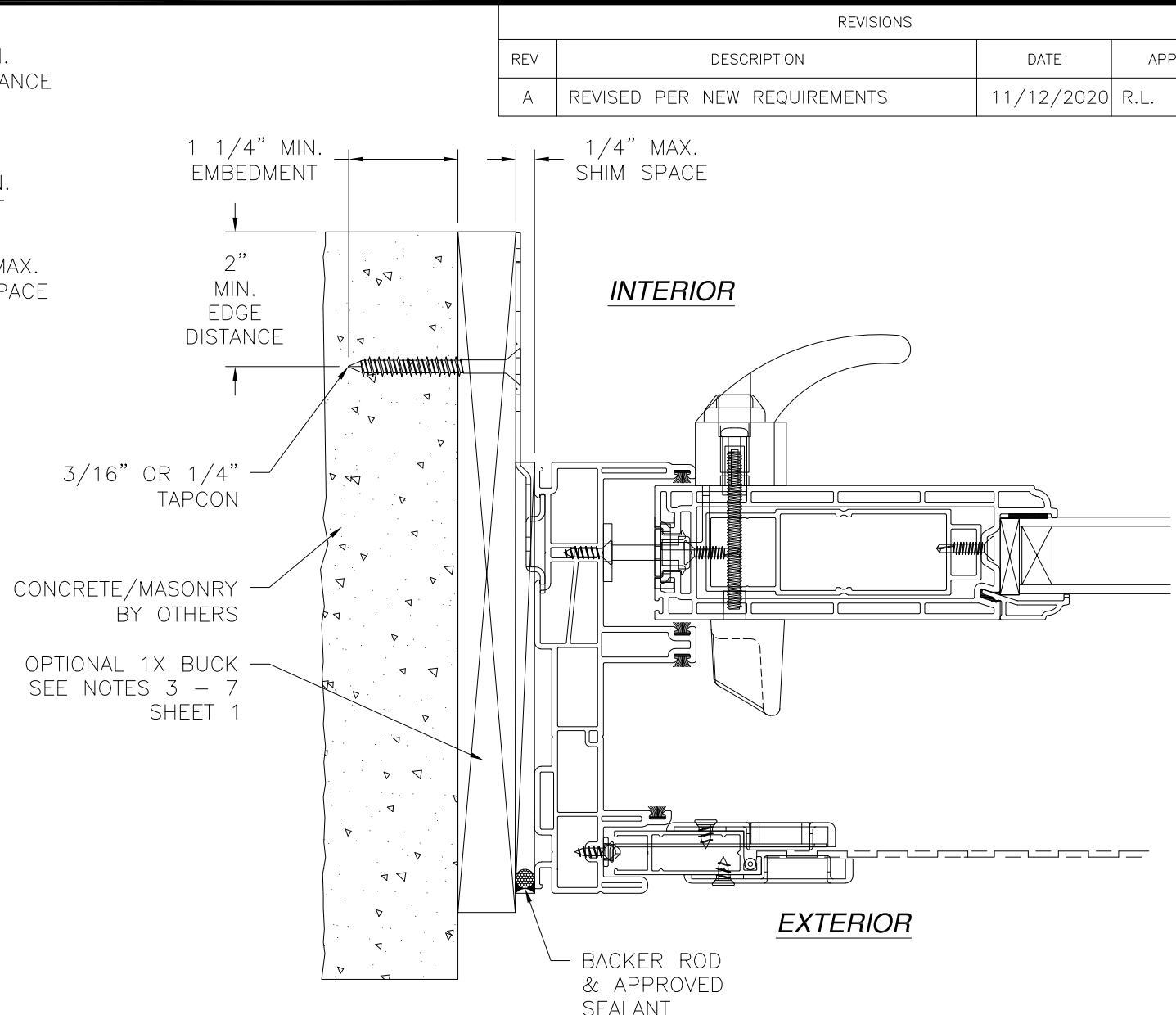
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/12/2020

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



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

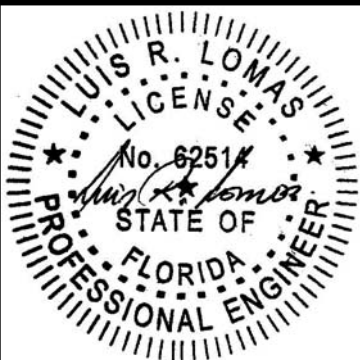


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

- 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

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 95" X 95" NON-IMPACT STRIP INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 12 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/12/2020



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

#10 WOOD SCREW
APPROVED SEALANT BEHIND FIN
1/2" MIN. EDGE DISTANCE
1 1/2" MIN. EMBEDMENT
WOOD FRAMING BY OTHERS
1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

1/2" MIN. EDGE DISTANCE
APPROVED SEALANT BEHIND FIN
#10 WOOD SCREW
1 1/2" MIN. EMBEDMENT
WOOD FRAMING BY OTHERS
1/4" MAX. SHIM SPACE

VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.

WOOD FRAMING BY OTHERS
1/4" MAX. SHIM SPACE
1 1/2" MIN. EMBEDMENT
APPROVED SEALANT BEHIND FIN
#10 WOOD SCREW
1/2" MIN. EDGE DISTANCE
INTERIOR
EXTERIOR

JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SOLAR INNOVATIONS, INC.

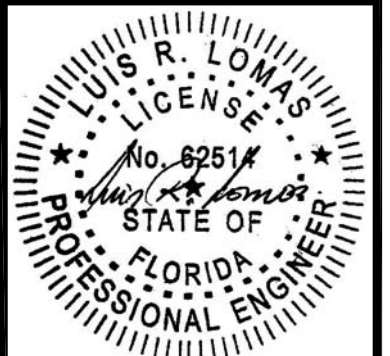
31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
95" X 95" NON-IMPACT
STRIP INSTALLATION DETAILS

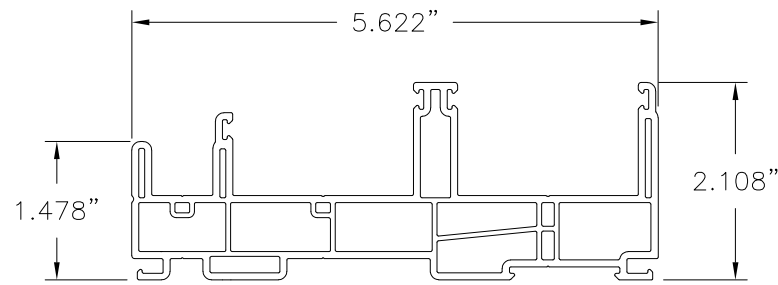
DRAWN: A.R.	DWG NO. 08-03241	REV A
SCALE NTS	DATE 04/17/18	SHEET 13 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

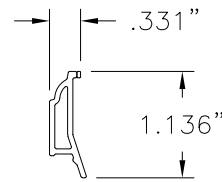
SIGNED: 11/12/2020



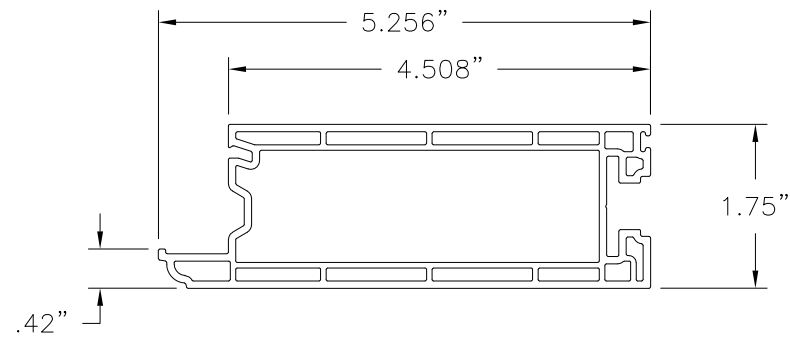
Luis R. Lomas P.E.
FL No.: 62514



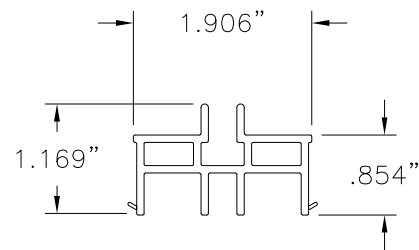
① **FRAME**
VINYL PVC .075 THICK



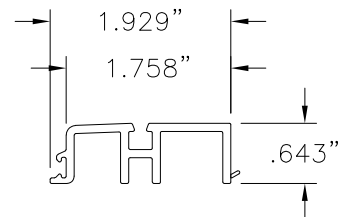
② **GLAZING BEAD**
VINYL PVC .055 THICK



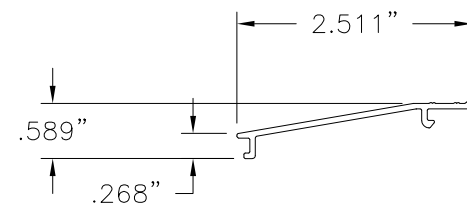
③ **SASH**
VINYL PVC .079 THICK



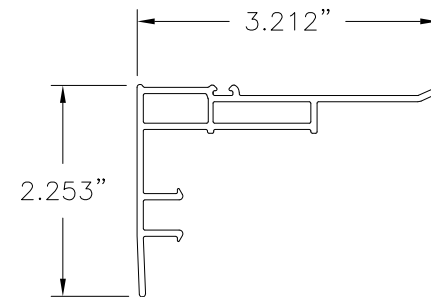
④ **SUPPORT BLOCK**
VINYL PVC .079 THICK



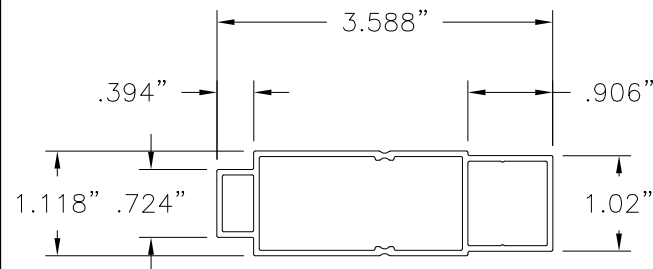
⑤ **SILL ADAPTER**
VINYL PVC .087 THICK



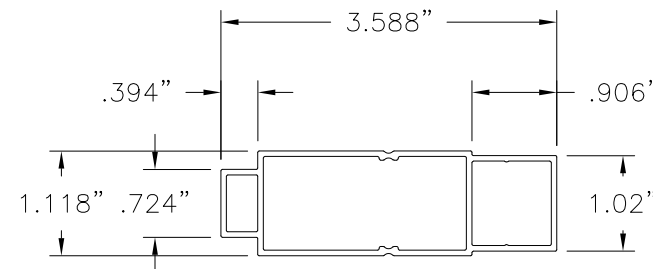
⑧ **SILL**
AL 6063-T5 .063 THICK



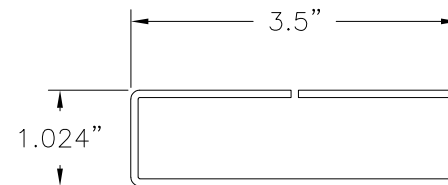
⑦ **SNAP-ON MEETING RAIL**
VINYL PVC .067 THICK



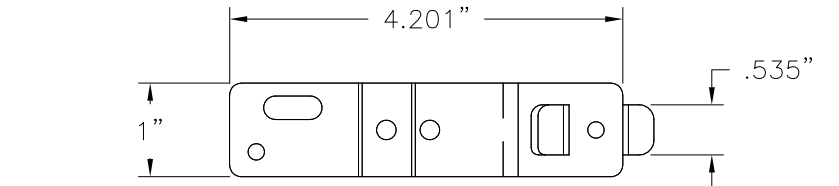
⑪ **ROLLER SUPORT**
AL 6063-T5 .059 THICK



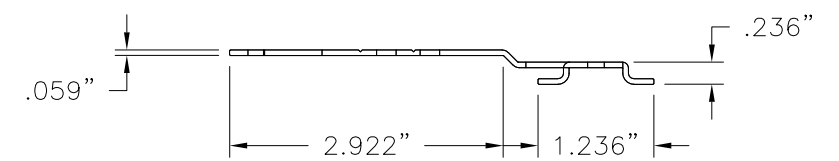
⑫ **SASH REINFORCEMENT**
AL 6063-T5 .059 THICK



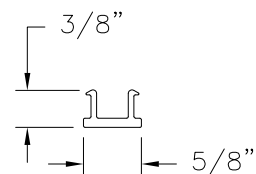
③③ **RAIL REINFORCEMENT**
STEEL .079 THICK



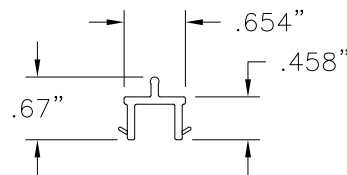
③⑤ **INSTALLATION STRIP**
GALVANIZED STEEL G60



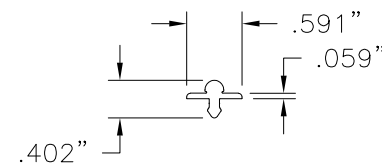
① **FIN FRAME**
VINYL PVC .075 THICK (S003-2)



②⑨ **LOCK SIDE MOLDING**
RIGID PVC (RS-S030)



⑥ **SCREEN ADAPTER**
VINYL PVC .079 THICK



⑨ **SASH RAIL**
AL 6063-T5 .059 THICK

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/12/2020	R.L.

SIGNED: 11/12/2020

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

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
95" X 95" NON-IMPACT
COMPONENTS

DRAWN:
A.R.

DWG NO.
08-03241

REV
A

SCALE
NTS

DATE
04/17/18

SHEET
14 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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