

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED NAME	09/19/17	R.L.
B	REVISED PER NEW REQUIREMENTS	11/05/2020	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. 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. 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.
5. FRAME MATERIAL: ALUMINUM 6063-T6
6. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. 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 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE #14 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.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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 12GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM

SIGNED: 11/20/2020

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SHEET NO.	DESCRIPTION
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2	ELEVATIONS, GLAZING DETAILS & DP CHARTS
3 – 4	CROSS SECTIONS
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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI2000 MODULAR MULLED TERRACE DOOR

IMPACT

NOTES

DRAWN:
J.L.

DWG NO.
08-02388

REV
B

SCALE NTS

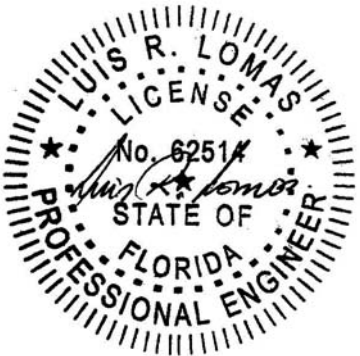
DATE 08/21/14

SHEET 1 OF 8

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

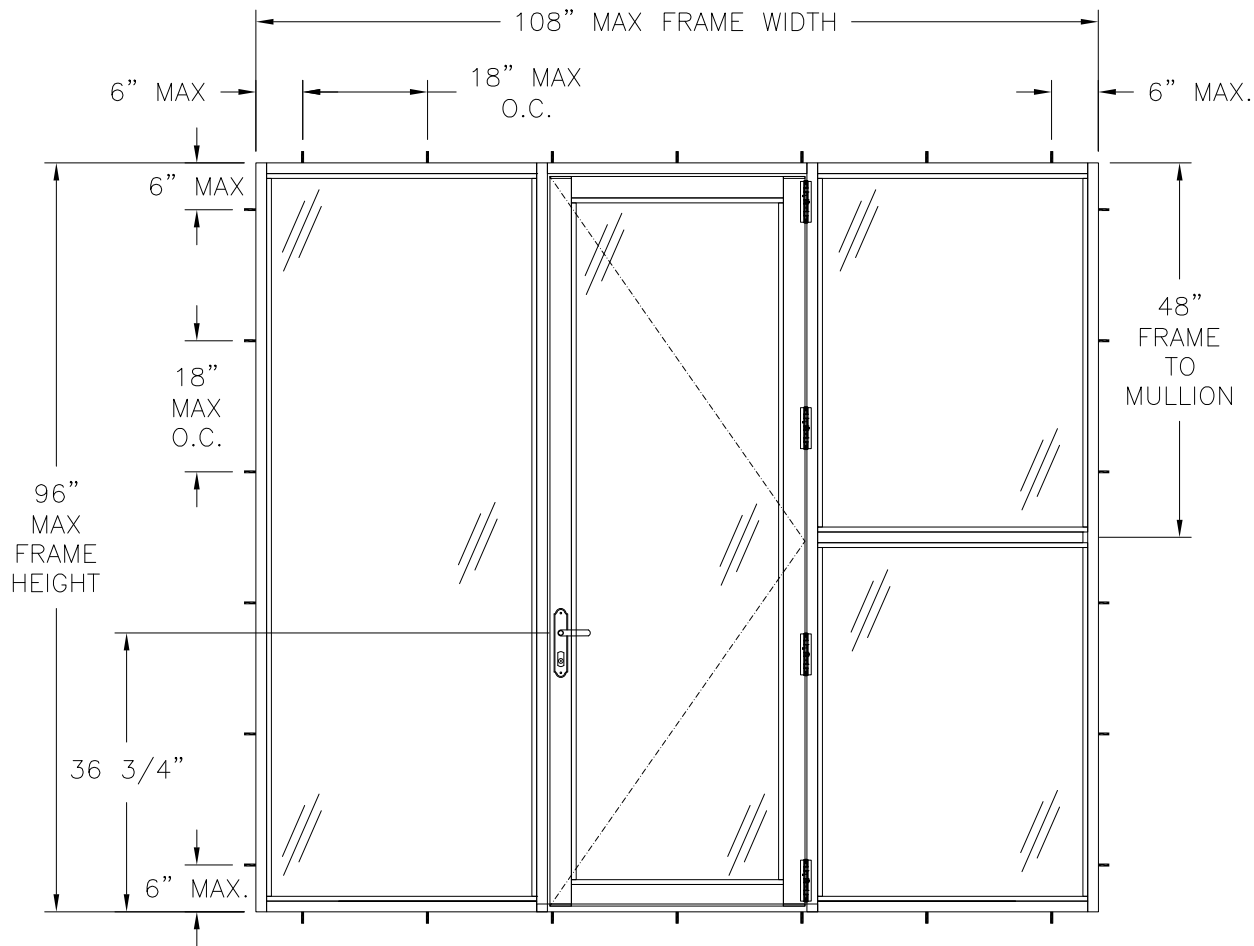
434-688-0609 rllomas@lrlomaspe.com



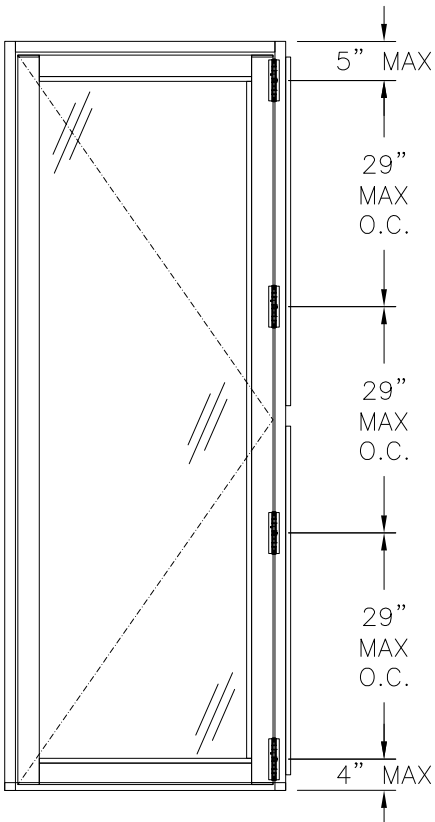
Luis R. Lomas P.E.
FL No.: 62514

INTERIOR

EXTERIOR



SERIES SI2000 MODULAR MULLED TERRACE DOOR
EXTERIOR VIEW



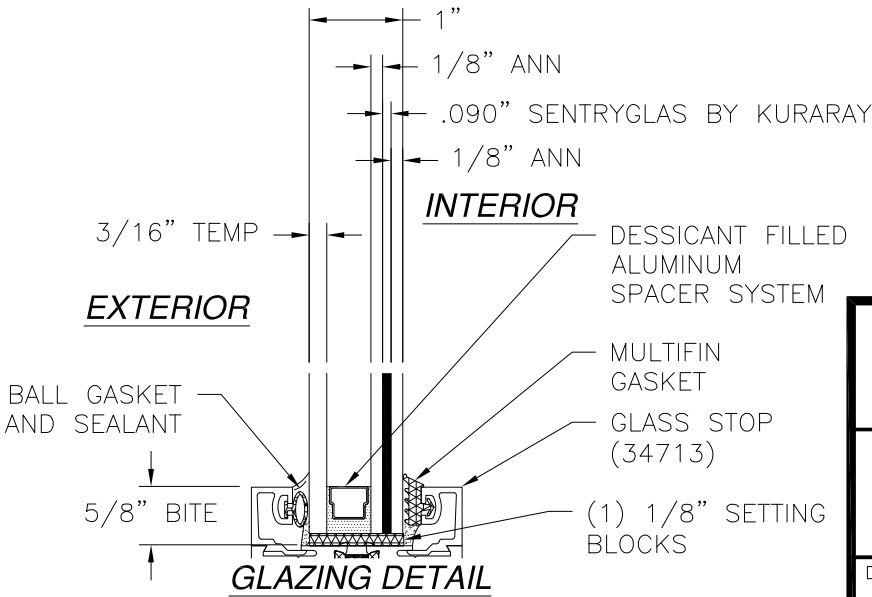
HINGE LOCATION LAYOUT

DESIGN PRESSURE RATING	IMPACT RATING
+40.0/-50.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #1, THIS SHEET

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #2, THIS SHEET



GLAZING DETAIL

HARDWARE SCHEDULE

A.	SINGLE HANDLE 3-POINT INTEGRATED LOCK SYSTEM WITH THUMB ACTUATED DEAD-BOLT FROM SILL ON LOCK STILE
B.	METAL KEEPER AT HEAD AND SILL AT SHOOT BOLT LOCATION
C.	BUTT-TYPE HINGE ASSEMBLY AT EACH END OF HINGE STILE

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Chart #1

Maximum Design pressure (psf)								
Panel Height (in)	Single Panel Width (in)							
	24.0		30.0		36.0		42.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	40.0	50.0	40.0	50.0	40.0	50.0	40.0	50.0
84.0	40.0	50.0	40.0	50.0	40.0	50.0	-	-
90.0	40.0	50.0	40.0	50.0	40.0	50.0	-	-
93.50	40.0	50.0	40.0	50.0	40.0	50.0	-	-
96.0	40.0	50.0	40.0	50.0	40.0	50.0	-	-
102.0	40.0	50.0	40.0	48.9	-	-	-	-
108.0	40.0	50.0	40.0	41.1	-	-	-	-
114.0	40.0	43.1	34.8	34.8	-	-	-	-
120.0	36.9	36.9	-	-	-	-	-	-
126.0	31.8	31.8	-	-	-	-	-	-

Chart #2

Maximum Design pressure (psf)								
Panel Height (in)	Single Panel Width (in)							
	24.0		30.0		36.0		42.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
84.0	50.0	50.0	50.0	50.0	50.0	50.0	-	-
90.0	50.0	50.0	50.0	50.0	50.0	50.0	-	-
93.50	50.0	50.0	50.0	50.0	50.0	50.0	-	-
96.0	50.0	50.0	50.0	50.0	50.0	50.0	-	-
102.0	50.0	50.0	48.9	48.9	-	-	-	-
108.0	50.0	50.0	41.1	41.1	-	-	-	-
114.0	43.1	43.1	34.8	34.8	-	-	-	-
120.0	36.9	36.9	-	-	-	-	-	-
126.0	31.8	31.8	-	-	-	-	-	-

NOTES:

1. DOOR FRAME SIZE: 36" X 96"
2. PANEL SIZE: 32 11/16" X 93 1/2"
3. PANEL D.L.O.: 25 15/16" X 86 3/4"
4. FIXED LITE D.L.O.: 32 1/4" X 92"

SIGNED: 11/20/2020

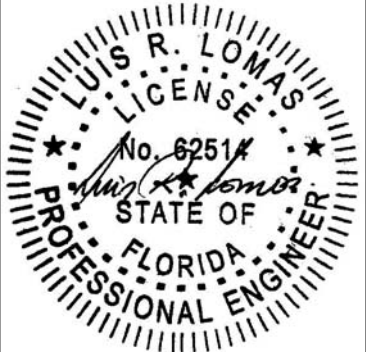
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

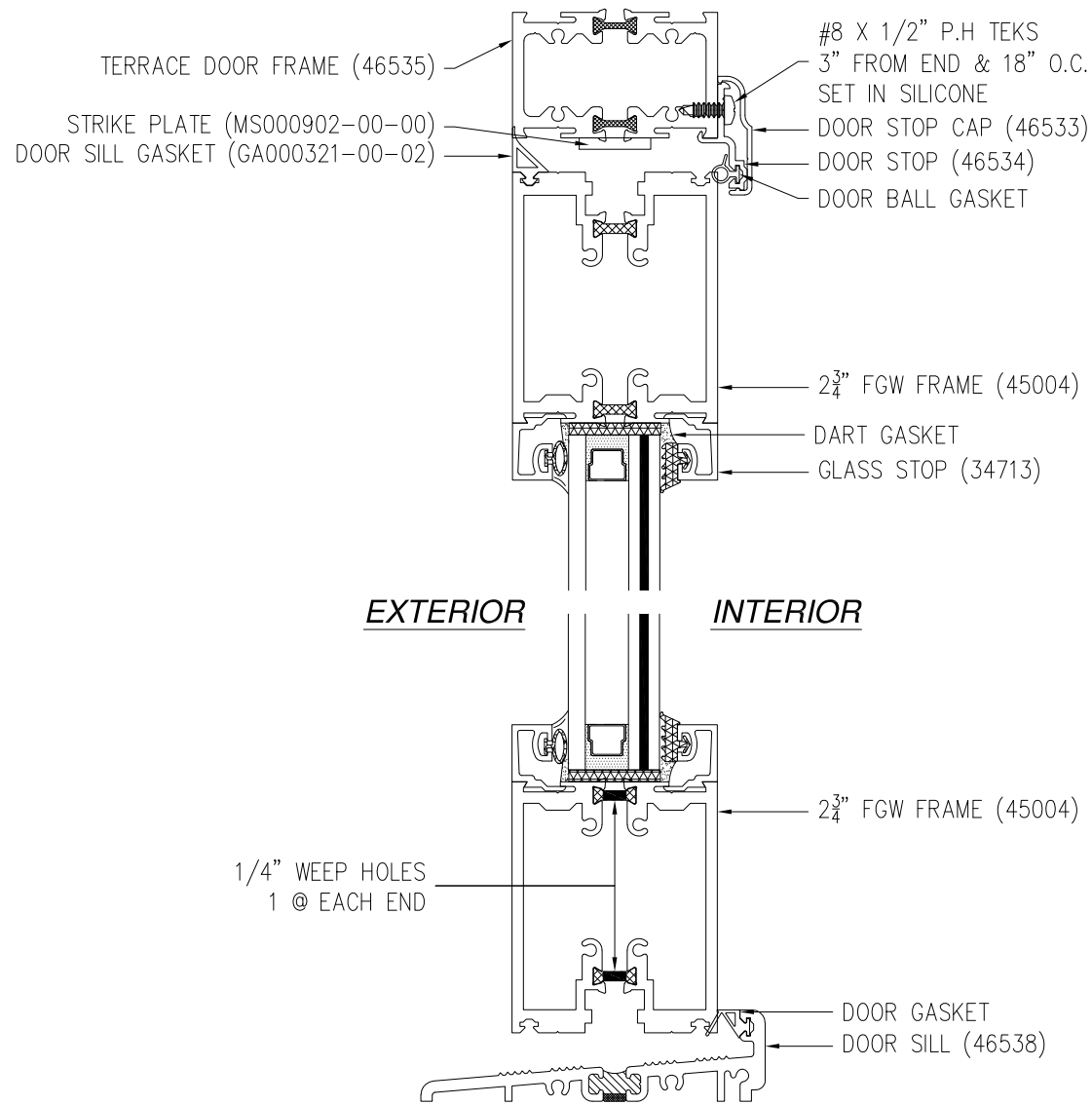
SERIES SI2000 MODULAR MULLED TERRACE DOOR
IMPACT
ELEVATION, GLAZING DETAILS & DP CHARTS

DRAWN: J.L.	DWG NO. 08-02388	REV B
SCALE NTS	DATE 08/21/14	SHEET 2 OF 8

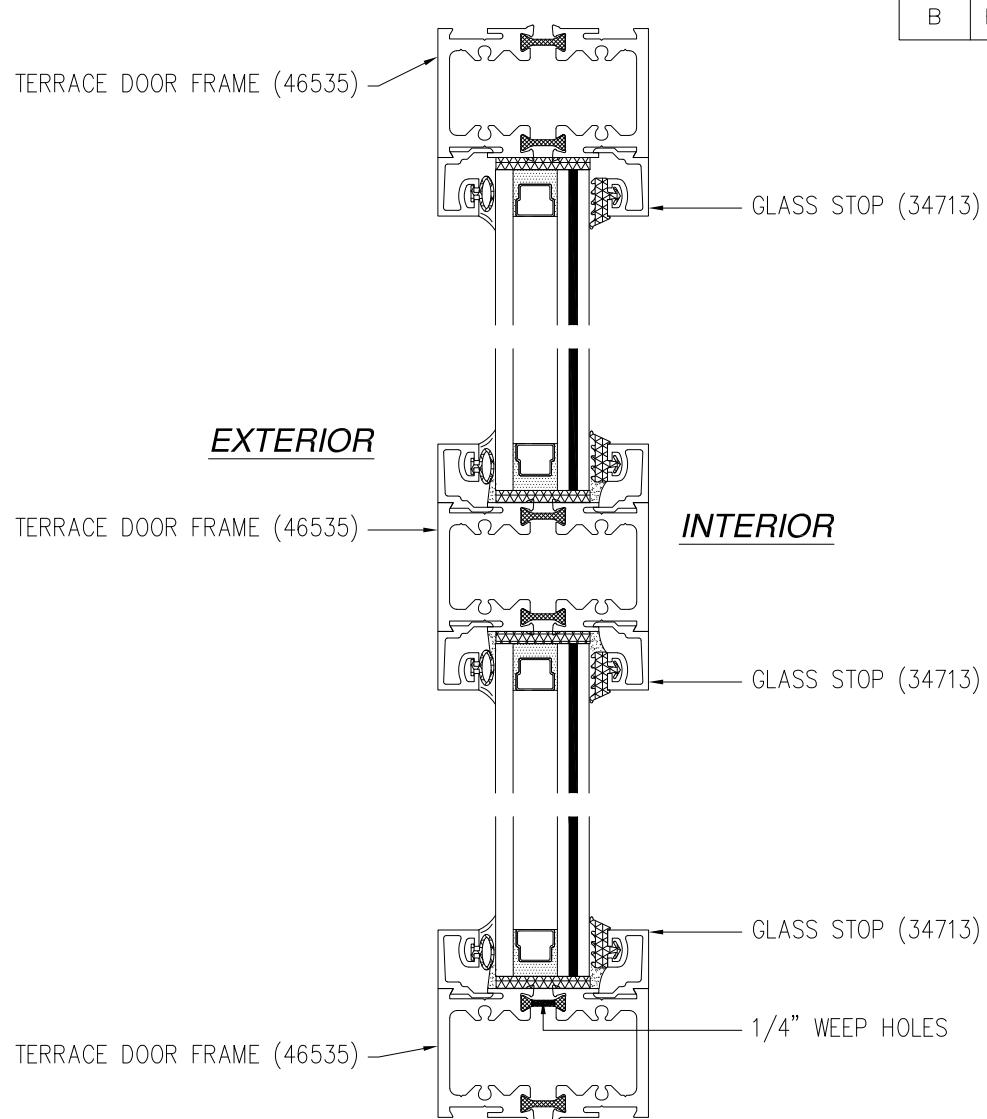
L. ROBERTO LOMAS P.E.
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FL No.: 62514



VERTICAL CROSS SECTION
DOOR

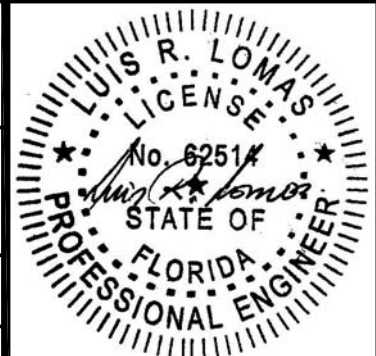


VERTICAL CROSS SECTION
FIXED LITE

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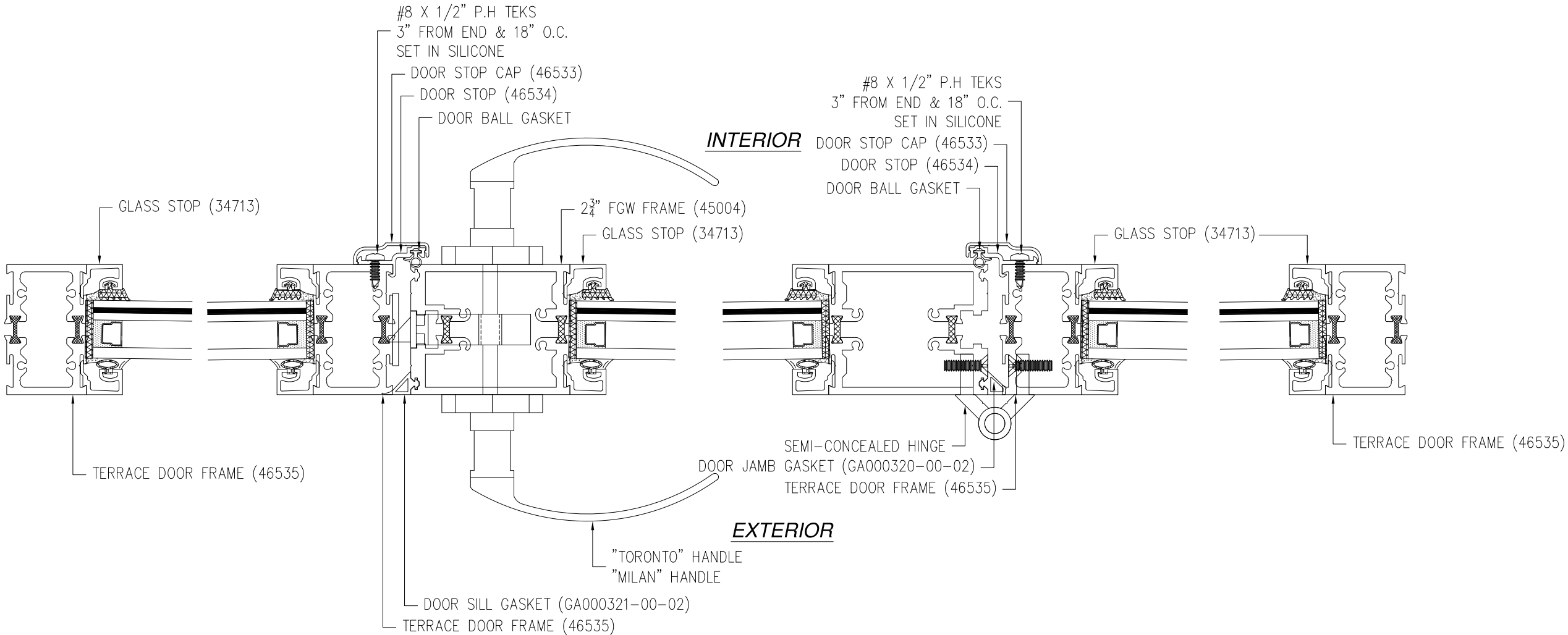
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SERIES SI2000 MODULAR MULLED TERRACE DOOR IMPACT VERTICAL CROSS SECTIONS		
DRAWN: J.L.	DWG NO. 08-02388	REV B
SCALE NTS	DATE 08/21/14	SHEET 3 OF 8
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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HORIZONTAL CROSS SECTION

SIGNED: 11/20/2020

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31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI2000 MODULAR MULLED TERRACE DOOR
IMPACT

HORIZONTAL CROSS SECTIONS

DRAWN:
J.L.

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08-02388

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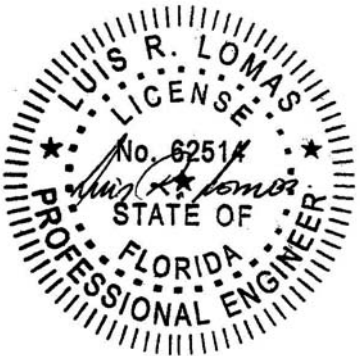
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SHEET 4 OF 8

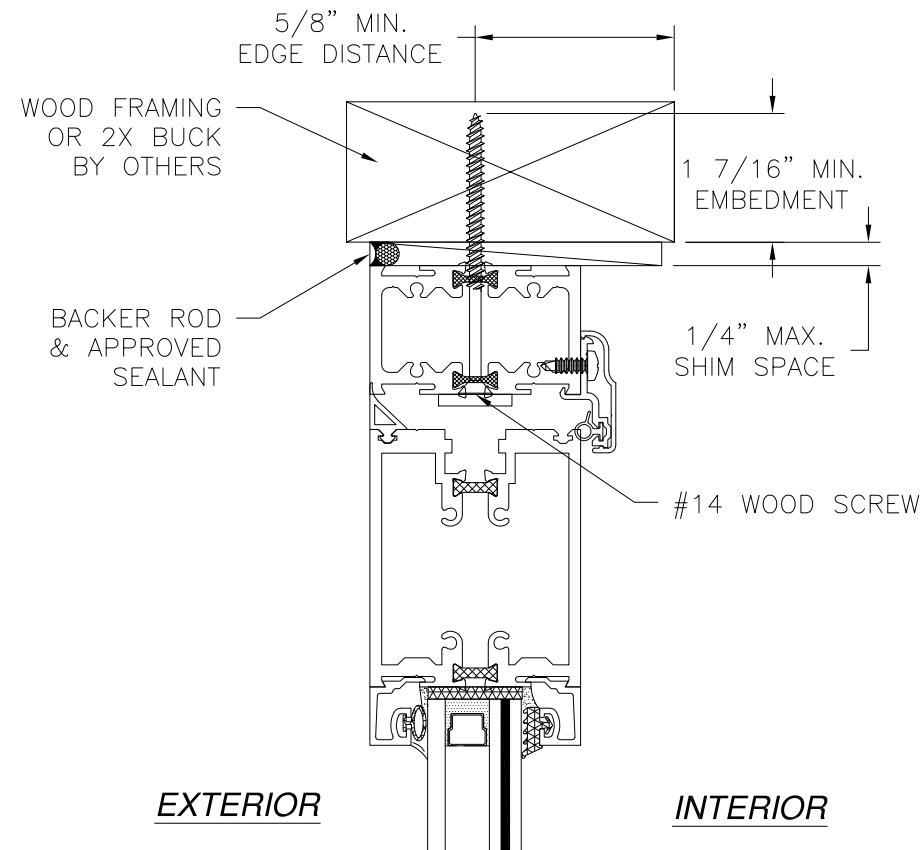
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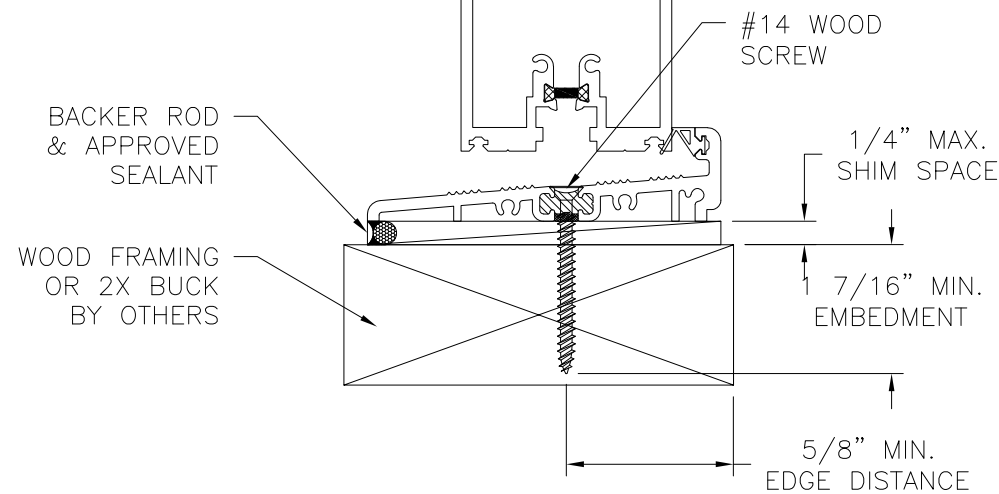


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EXTERIOR

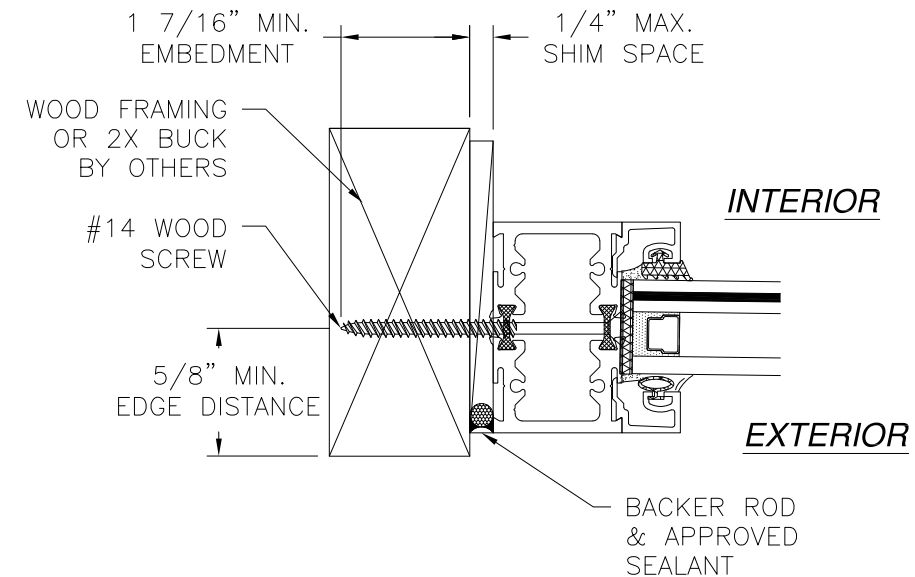
INTERIOR



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

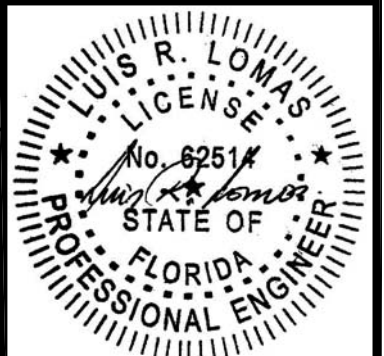
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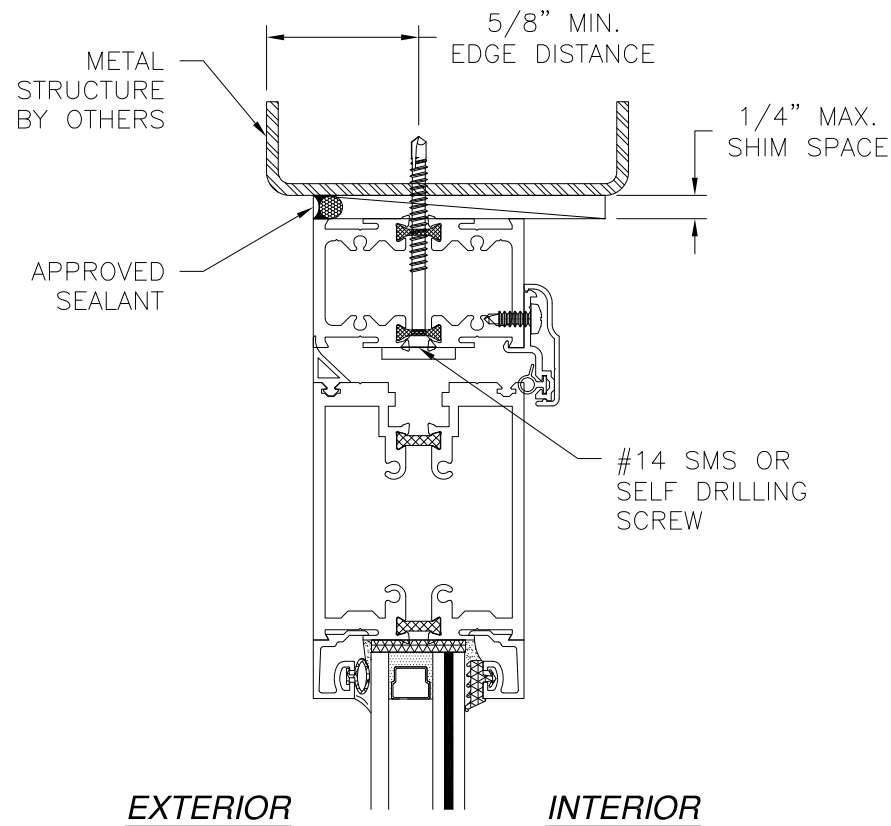
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI2000 MODULAR MULLED TERRACE DOOR IMPACT INSTALLATION DETAILS		
DRAWN: J.L.	DWG NO. 08-02388	REV B
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L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

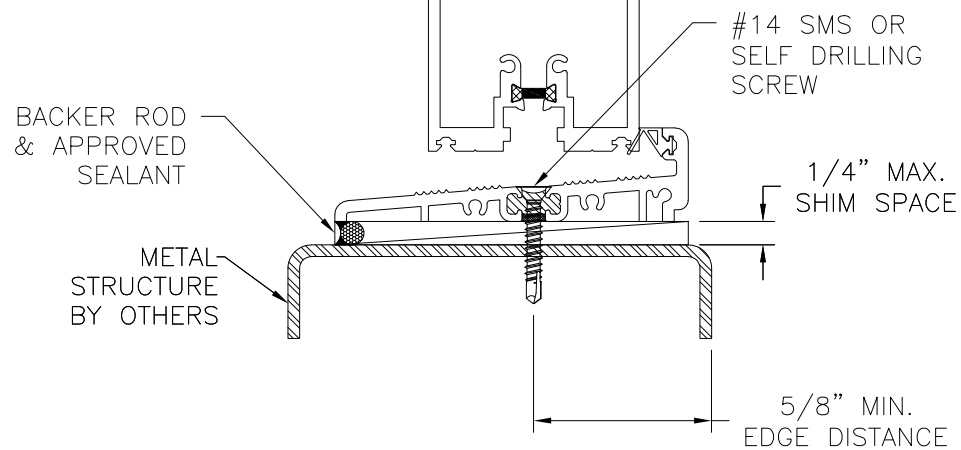
SIGNED: 11/20/2020



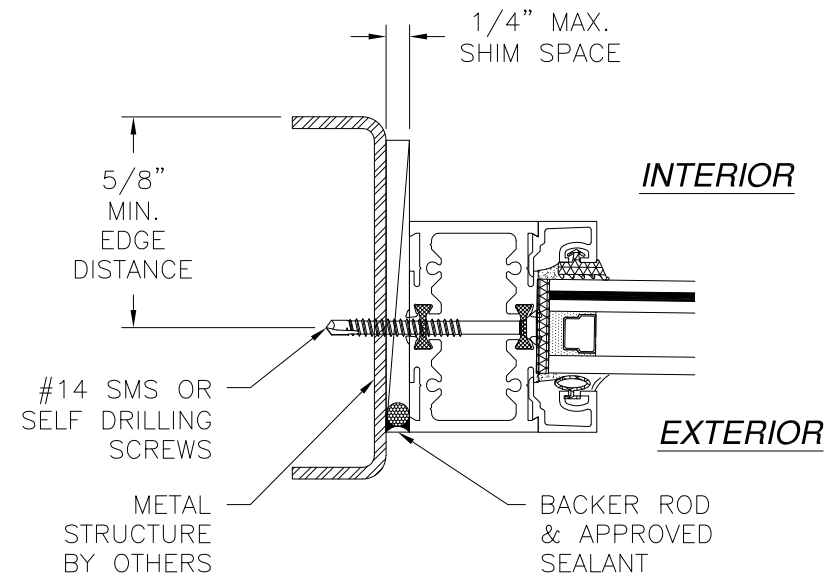
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EXTERIOR **INTERIOR**



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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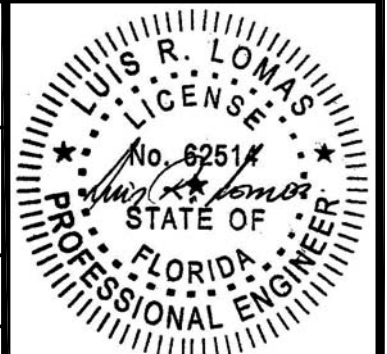
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI2000 MODULAR MULLED TERRACE DOOR
IMPACT
INSTALLATION DETAILS

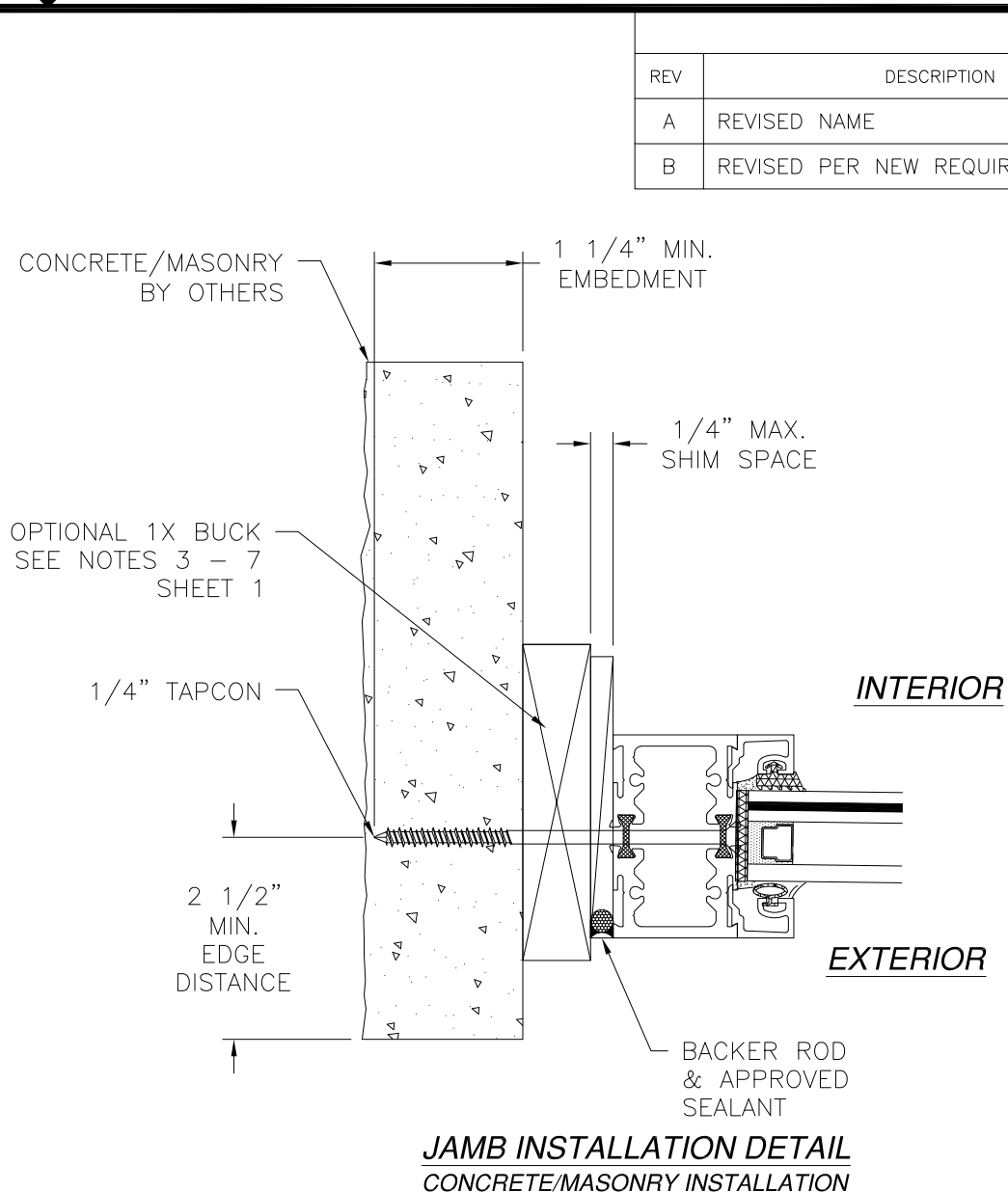
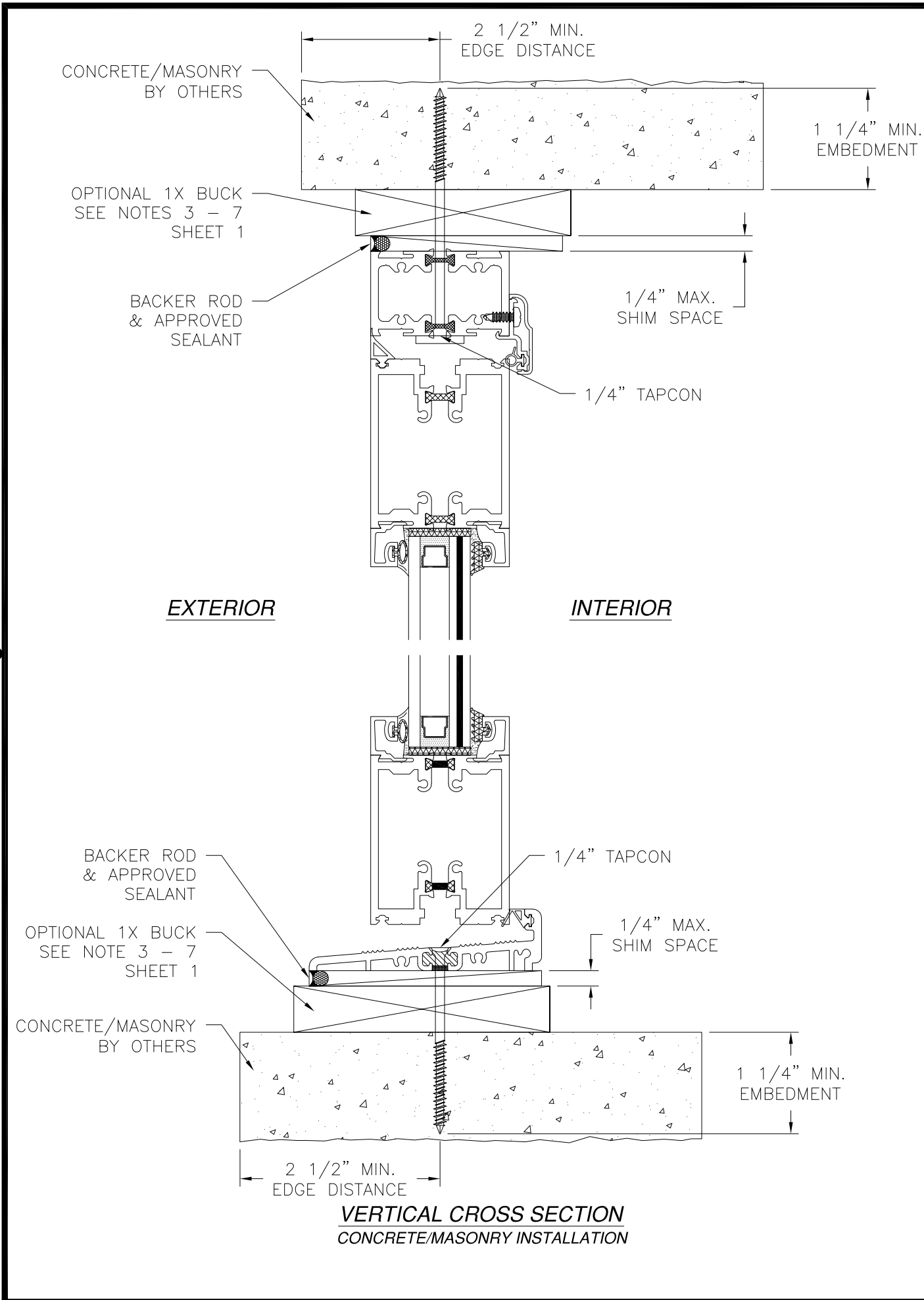
DRAWN: J.L.
SCALE NTS
DATE 08/21/14
DWG NO. 08-02388
SHEET 6 OF 8
REV B

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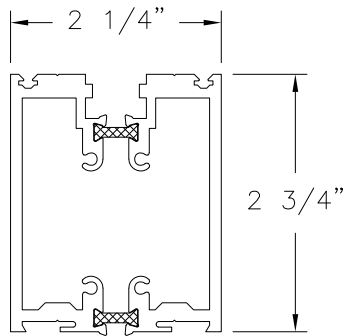
DRAWN: J.L.	DWG NO. 08-02388	REV B
SCALE NTS	DATE 08/21/14	SHEET 7 OF 8

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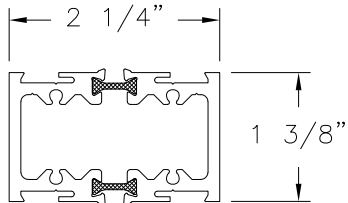
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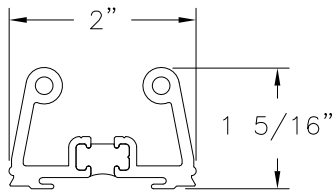
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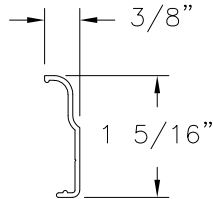
FRAME S45004
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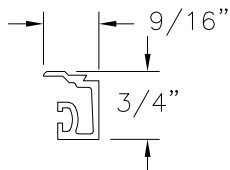
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ALUMINUM 6063-T6 .125" THICK



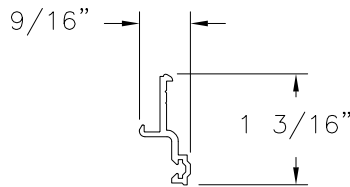
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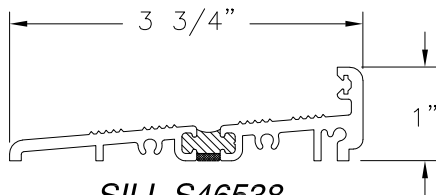
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ALUMINUM 6063-T6 .050" THICK



GLASS STOP S34713
ALUMINUM 6063-T6 .060" THICK



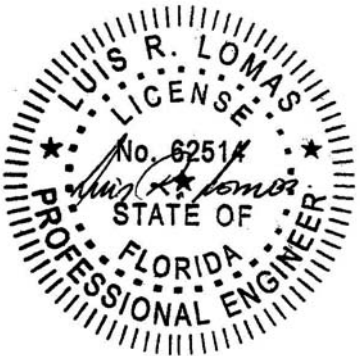
CHASE S46534
ALUMINUM 6063-T6 .070" THICK



SILL S46538
ALUMINUM 6063-T6 .125" THICK

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