

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, WITH Fm= 2,000 PSI.

D. METAL STRUCTURE: STEEL 12GA (.075”), 33KSI OR ALUMINUM 6063-T5 .125” THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS, GLAZING DETAIL & DP CHART
3 – 4	CROSS SECTIONS
5 – 7	INSTALLATION DETAILS
8	COMPONENTS

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

SERIES SI2000 MODULAR TERRACE DOOR
WITH HP SILL IMPACT
NOTES

DRAWN:
N.G.

DWG NO.
08-02918

REV
B

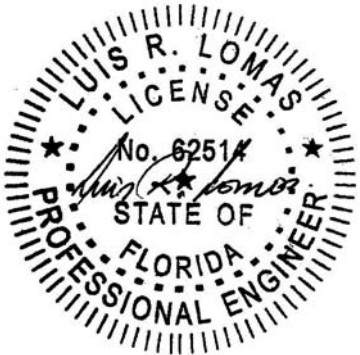
SCALE NTS

DATE 08/21/14

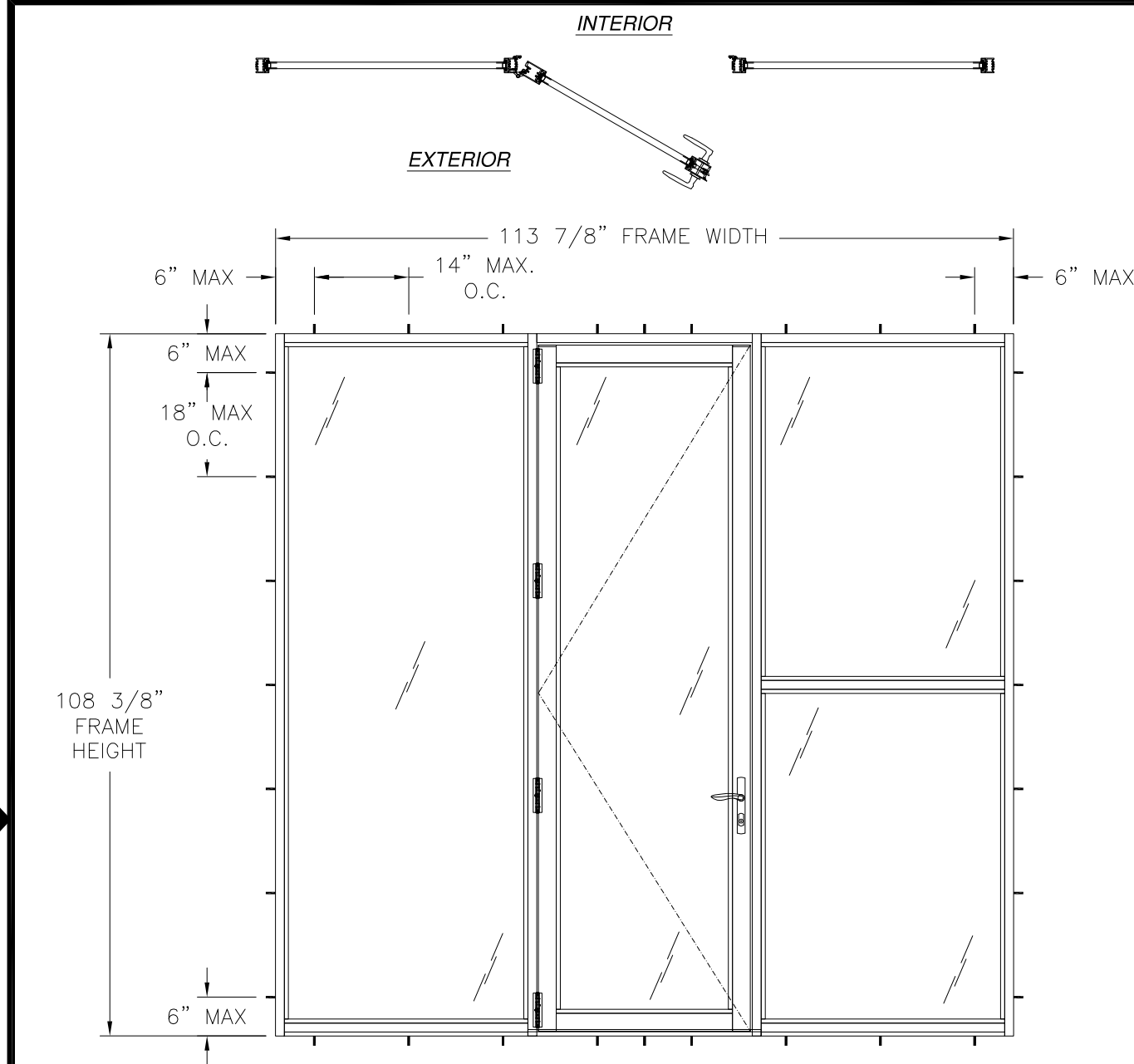
SHEET 1 OF 8

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

SIGNED: 11/19/2020



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



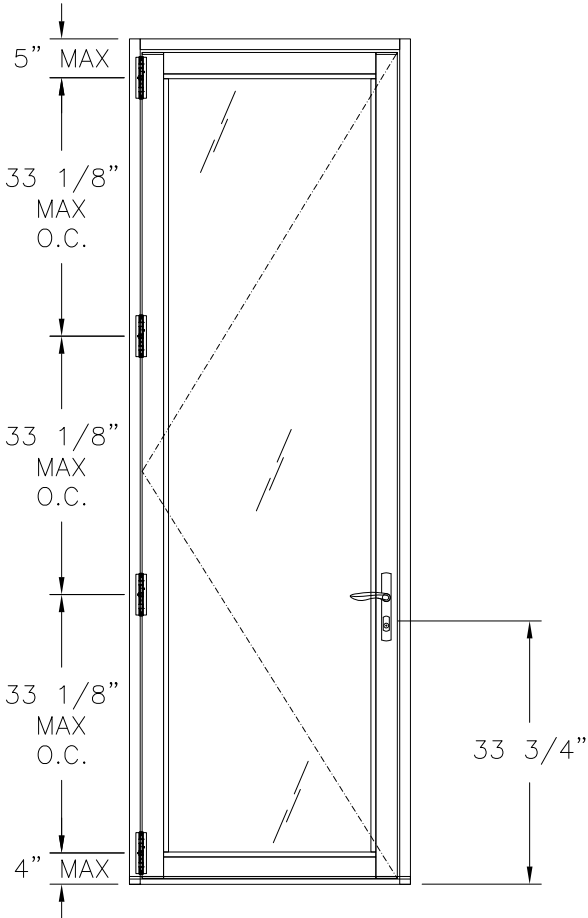
SERIES SI2000 G2 MODULAR TERRACE DOOR WITH HP SILL
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±50PSF	LARGE AND SMALL MISSILE IMPACT

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

HARDWARE SCHEDULE	
A.	SINGLE HANDLE LOCK/LOCK HANDLE AT 36 3/4" FROM BOTTOM OF LOCK STILE
B.	TUMBLER DEADBOLT AT 33 3/4" FROM BOTTOM OF LOCK STILE
C.	THROWBOLT AT TOP AND BOTTOM OF LOCK STILE
D.	METAL KEEPER AT LOCK LOCATIONS
E.	BUTT-TYPE HINGE HARDWARE AT 3 1/4" AND 36 1/2" FROM EACH END OF HINGE STILE

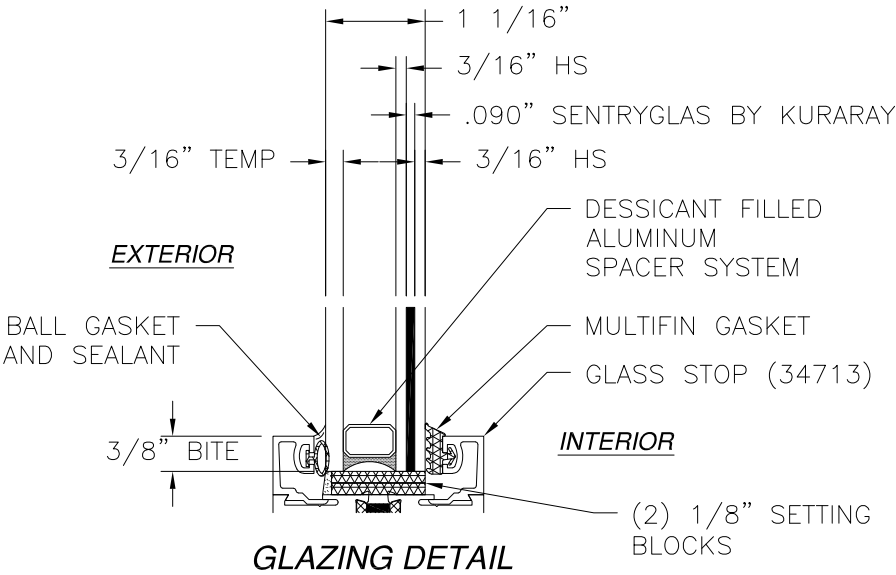
- NOTES:
1. DOOR FRAME SIZE: 36" X 108 3/8"
 2. SIDELITE PANEL SIZE: 39" X 108 3/8"
 3. D.L.O.: 36 5/16" X 103 3/4"
 4. 1/4" DIAMETER WEEPHOLE AT 32 1/2" FROM EACH END OF EXTERIOR SILL FACE.



HINGE LOCATION LAYOUT

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Chart #1 Maximum Design pressure (psf)												
Panel Height (in)	Single Panel Width (in)											
	24.0		30.0		36.0		39.0		42.0		48.0	
	Pos	Neg	Pos	Neg	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	50.0	50.0	50.0	50.0
84.0	50.0	50.0	50.0	50.0	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	50.0	50.0	50.0	50.0	-	-
96.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	-	-	-	-
102.0	50.0	50.0	50.0	50.0	50.0	50.0	-	-	-	-	-	-
108.4	50.0	50.0	50.0	50.0	50.0	50.0	-	-	-	-	-	-
114.0	50.0	50.0	50.0	50.0	-	-	-	-	-	-	-	-
120.0	50.0	50.0	43.3	43.3	-	-	-	-	-	-	-	-
126.0	46.3	46.3	37.4	37.4	-	-	-	-	-	-	-	-
132.0	40.2	40.2	-	-	-	-	-	-	-	-	-	-
138.0	35.2	35.2	-	-	-	-	-	-	-	-	-	-
144.0	30.9	30.9	-	-	-	-	-	-	-	-	-	-
150.0	27.3	27.3	-	-	-	-	-	-	-	-	-	-
156.0	24.3	24.3	-	-	-	-	-	-	-	-	-	-



GLAZING DETAIL

SIGNED: 11/19/2020

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

SERIES SI2000 MODULAR TERRACE DOOR
WITH HP SILL IMPACT
ELEVATION, GLAZING DETAIL & DP CHART

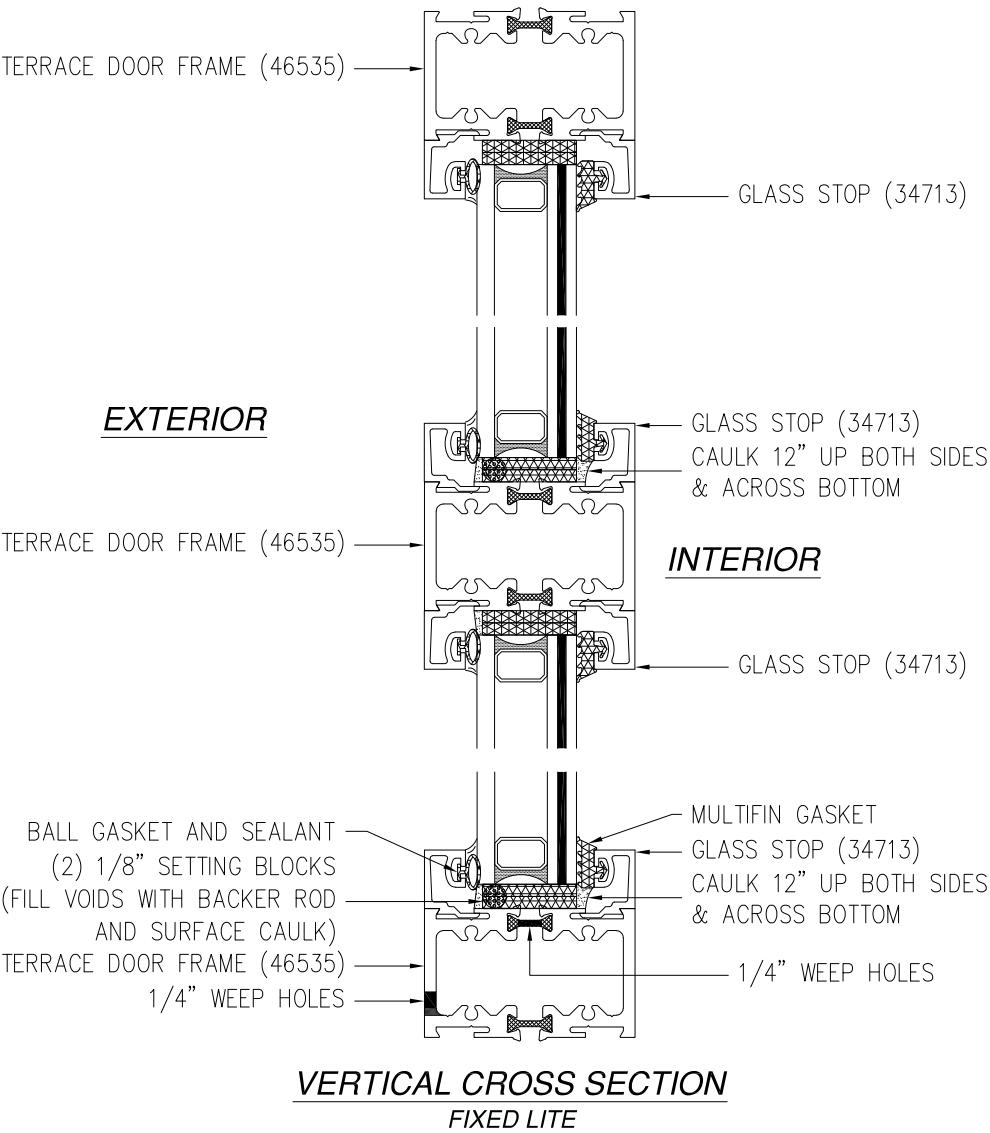
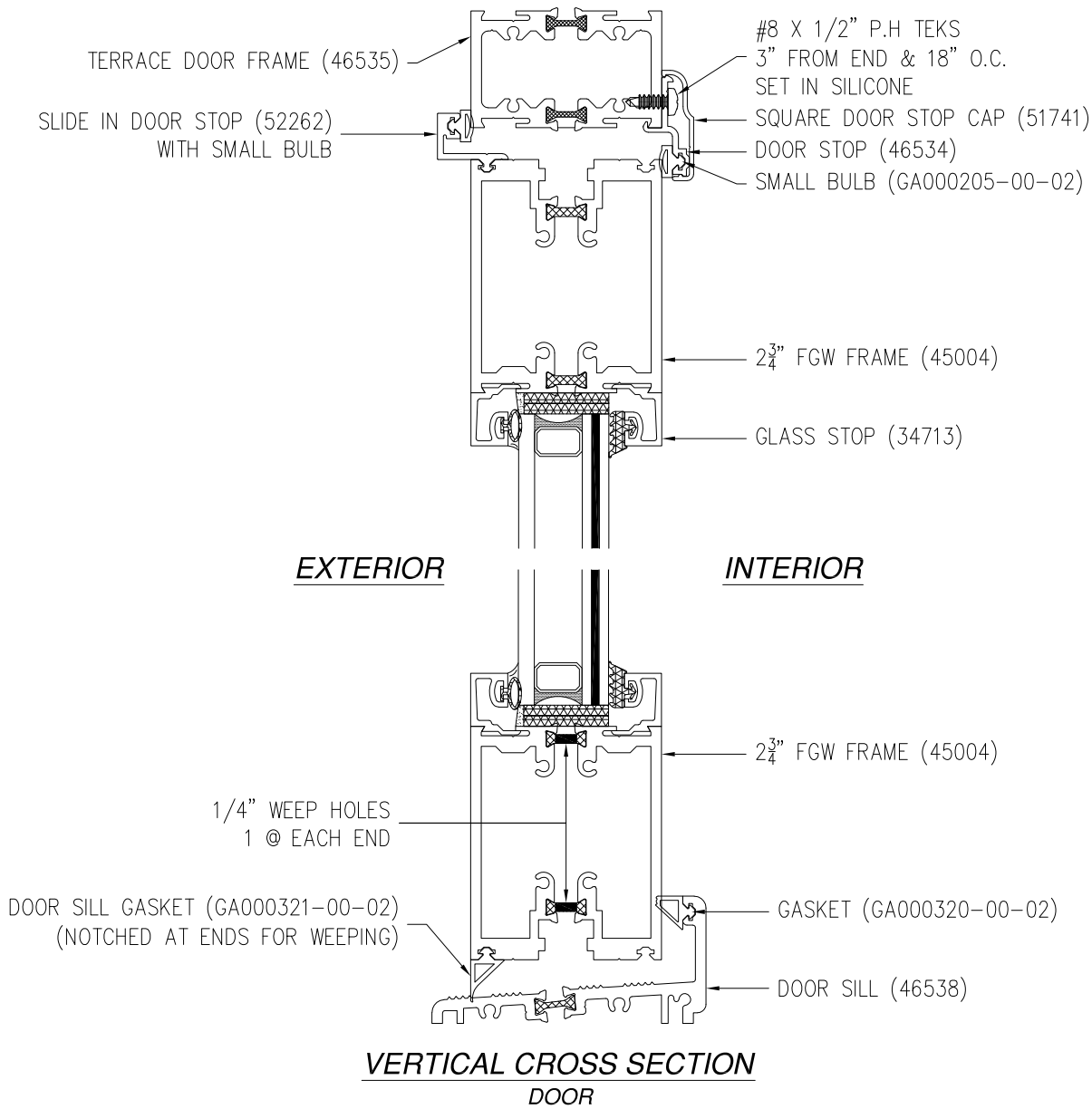
DRAWN: N.G.	DWG NO. 08-02918	REV B
SCALE NTS	DATE 08/21/14	SHEET 2 OF 8

L. ROBERTO LOMAS P.E.
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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI2000 MODULAR TERRACE DOOR
WITH HP SILL IMPACT
VERTICAL CROSS SECTIONS

DRAWN:

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DWG NO.

08-02918

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B

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NTS

DATE

08/21/14

SHEET

3

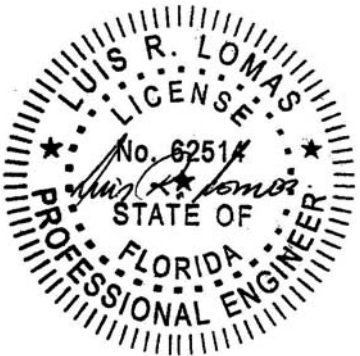
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L. ROBERTO LOMAS P.E.

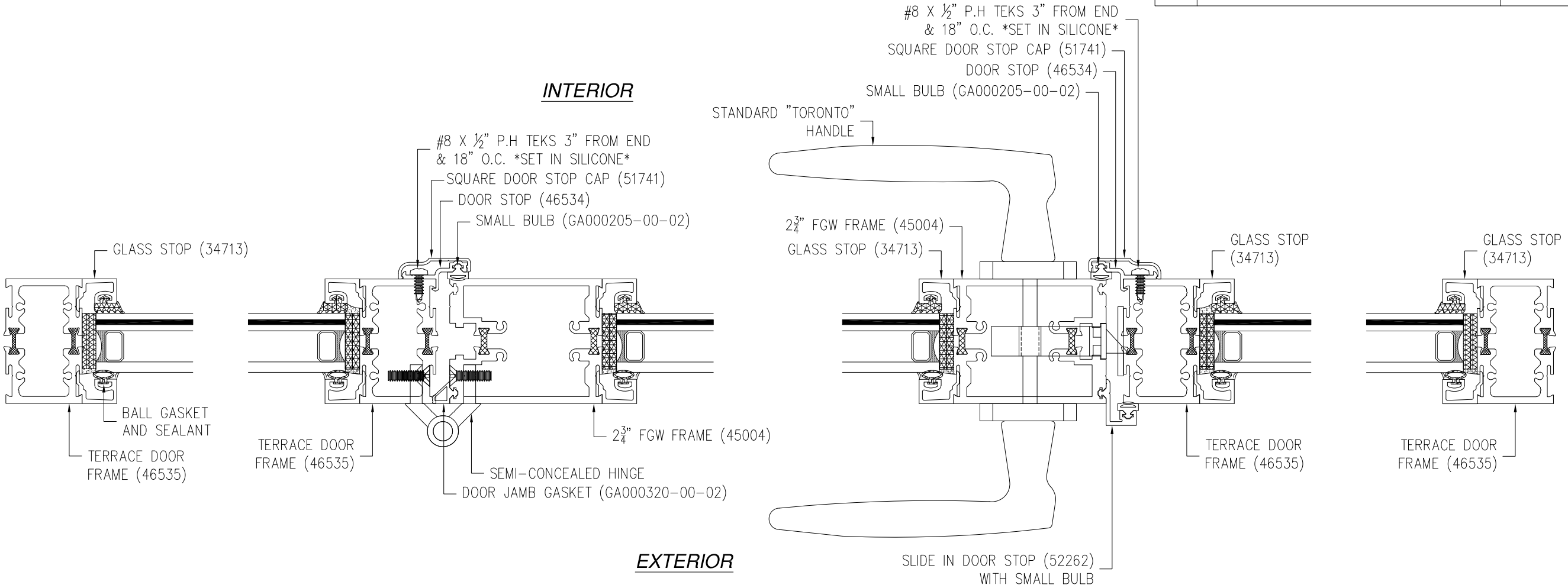
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HORIZONTAL CROSS SECTION

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SERIES SI2000 MODULAR TERRACE DOOR
WITH HP SILL IMPACT
HORIZONTAL CROSS SECTIONS

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4 OF 8

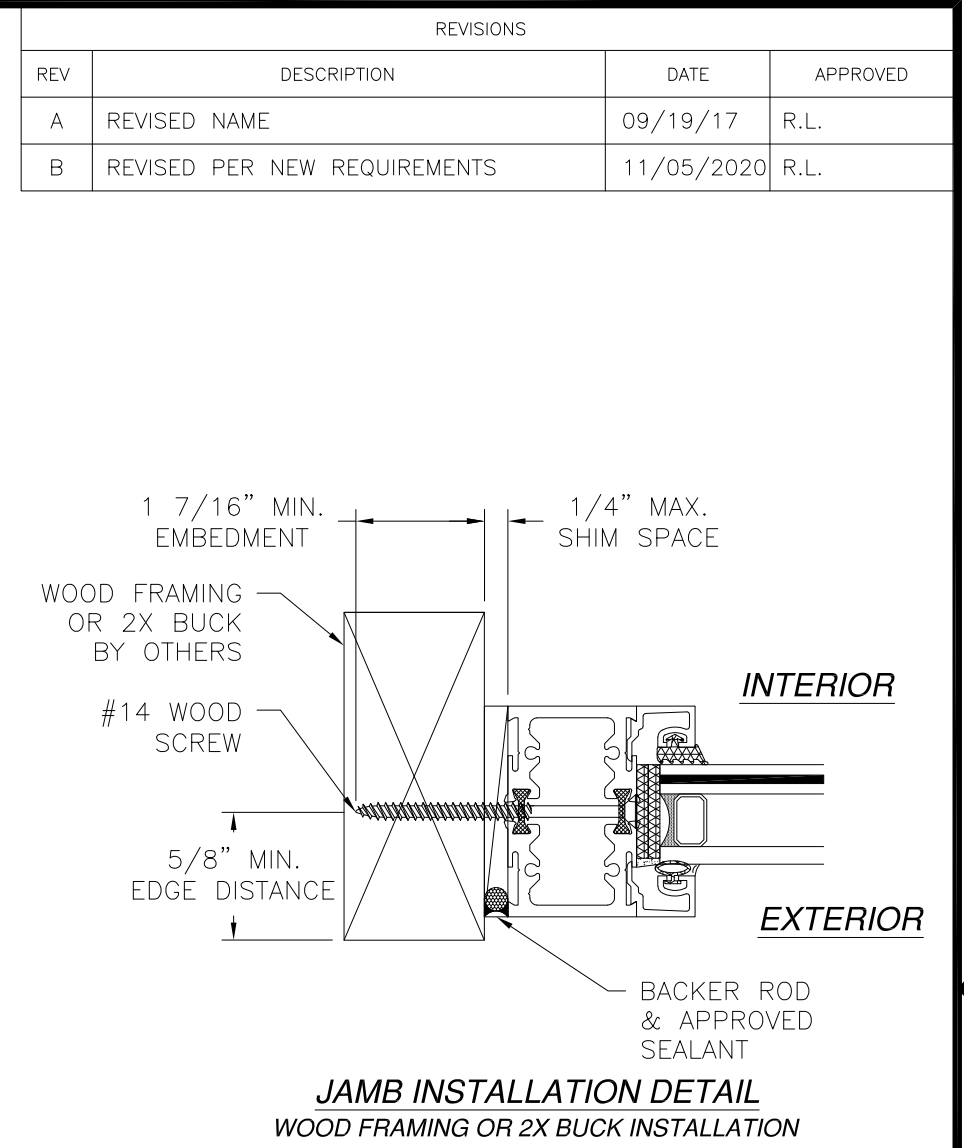
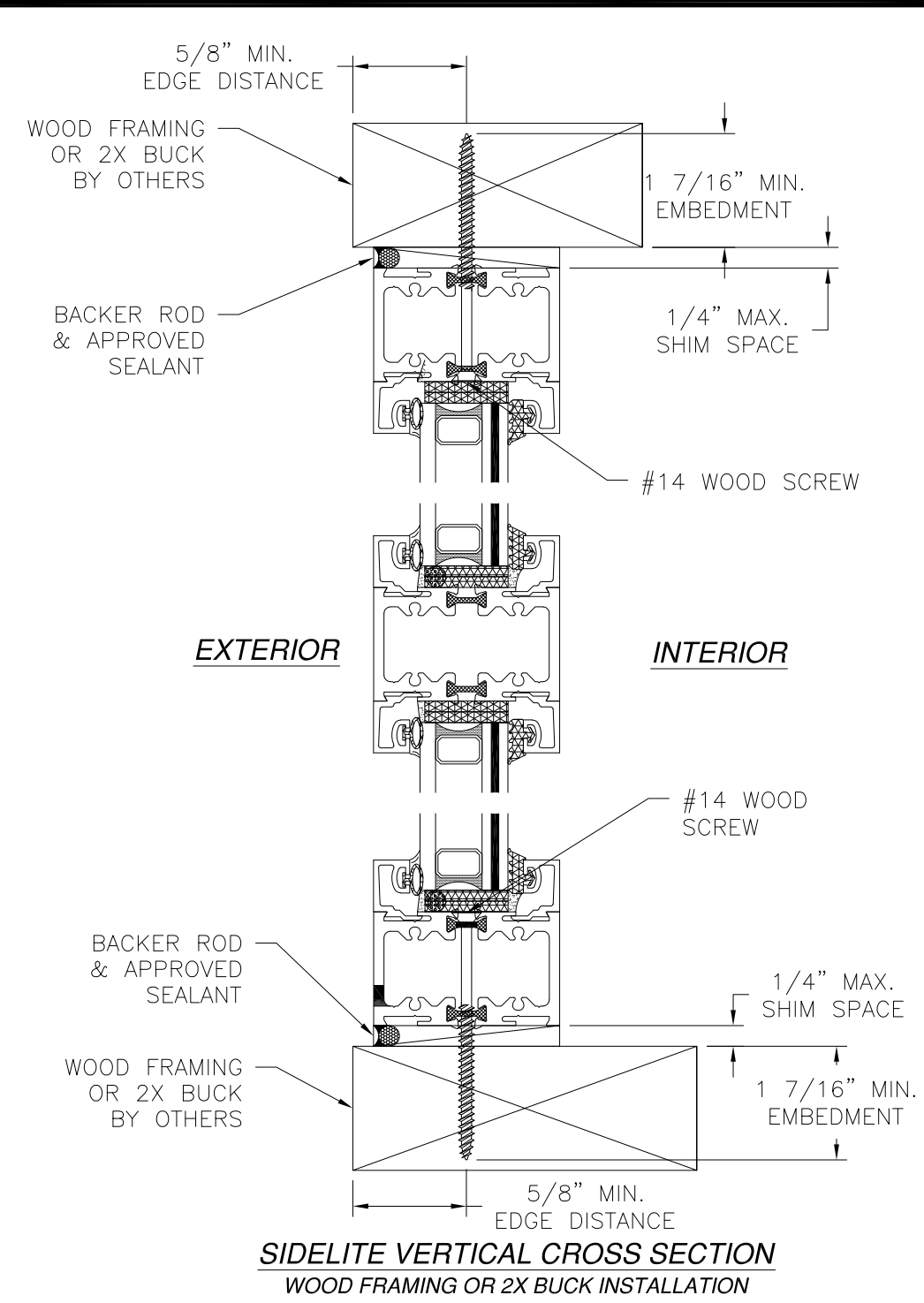
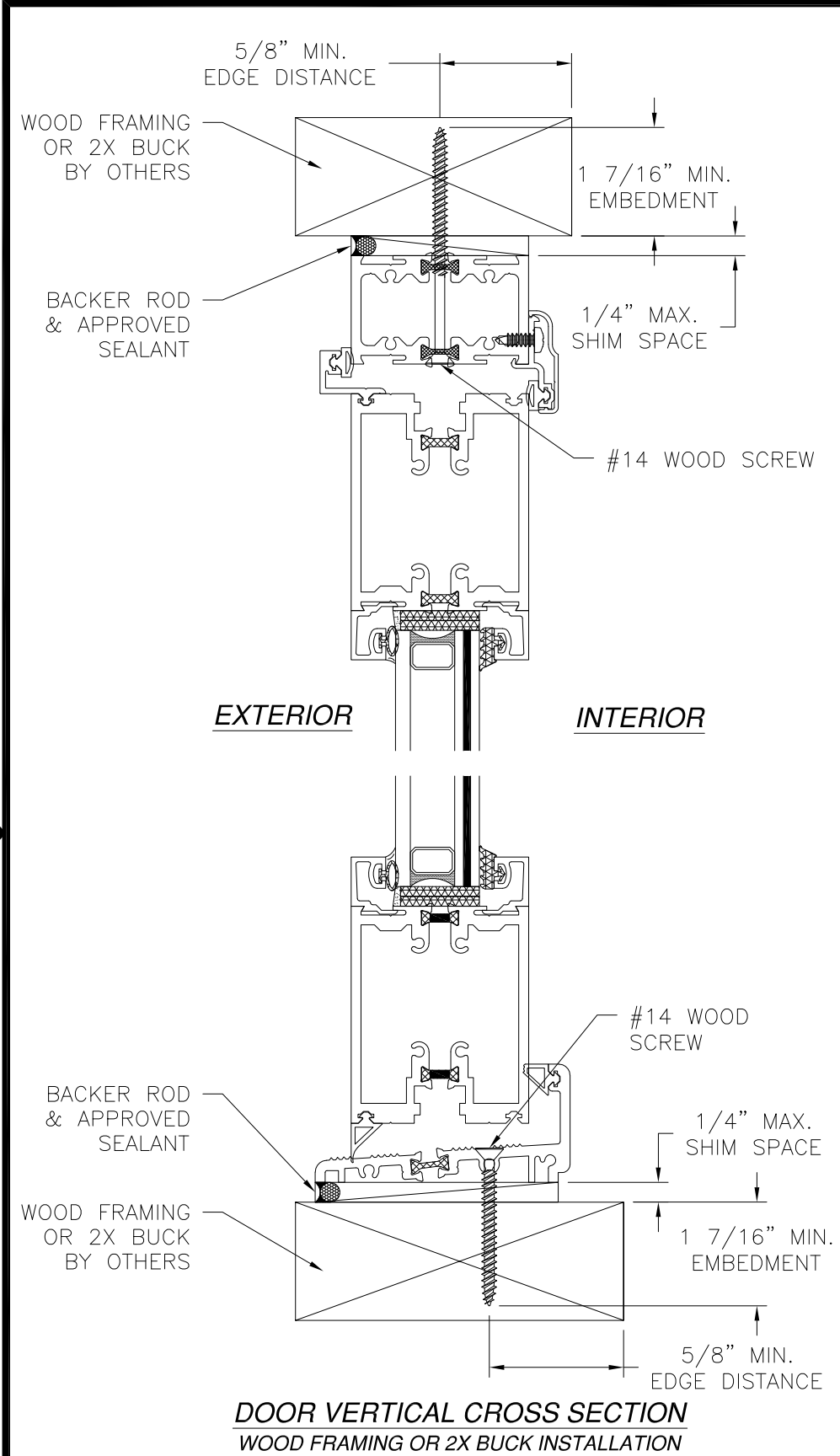
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NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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PINE GROVE, PA 17963

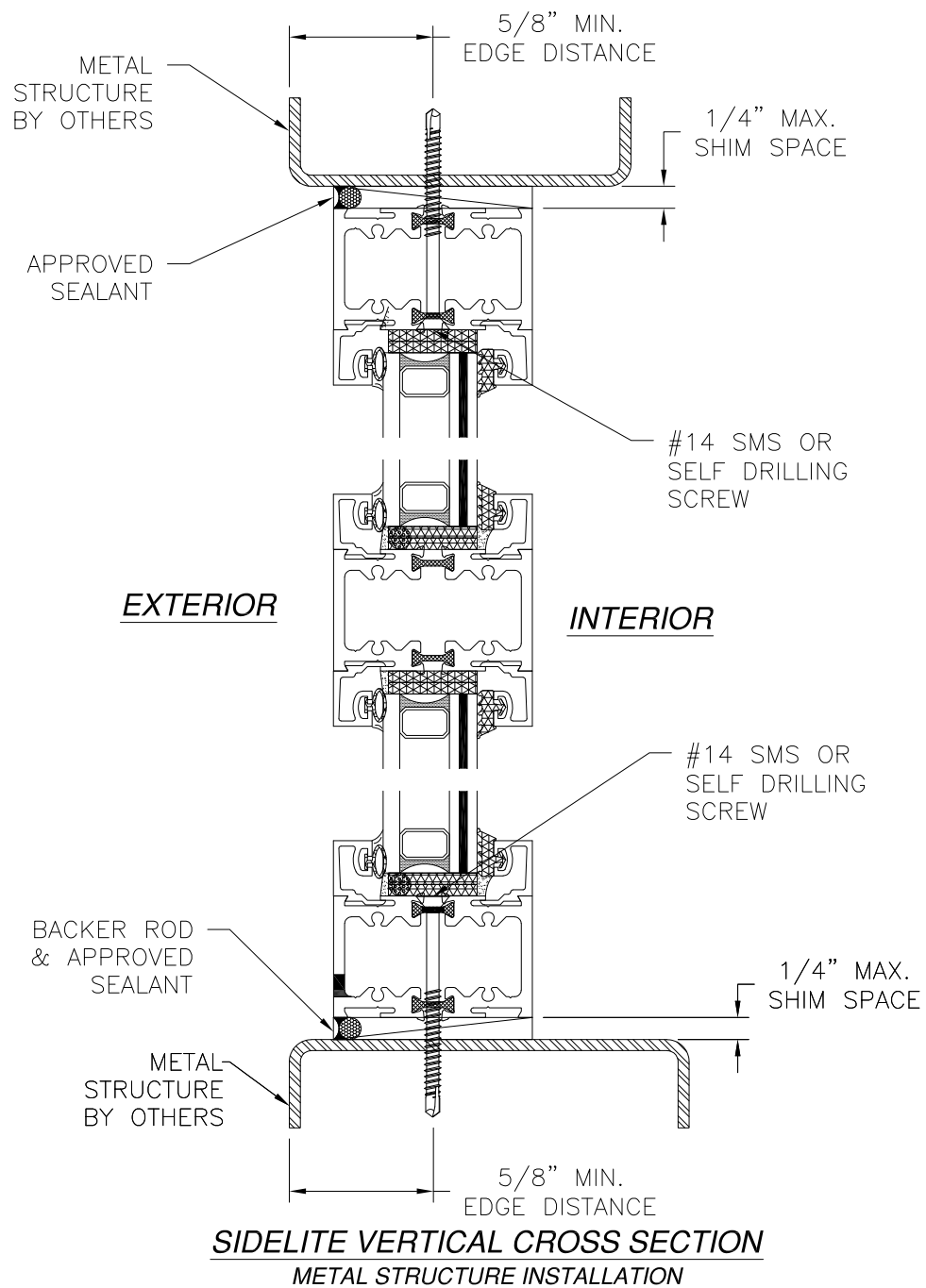
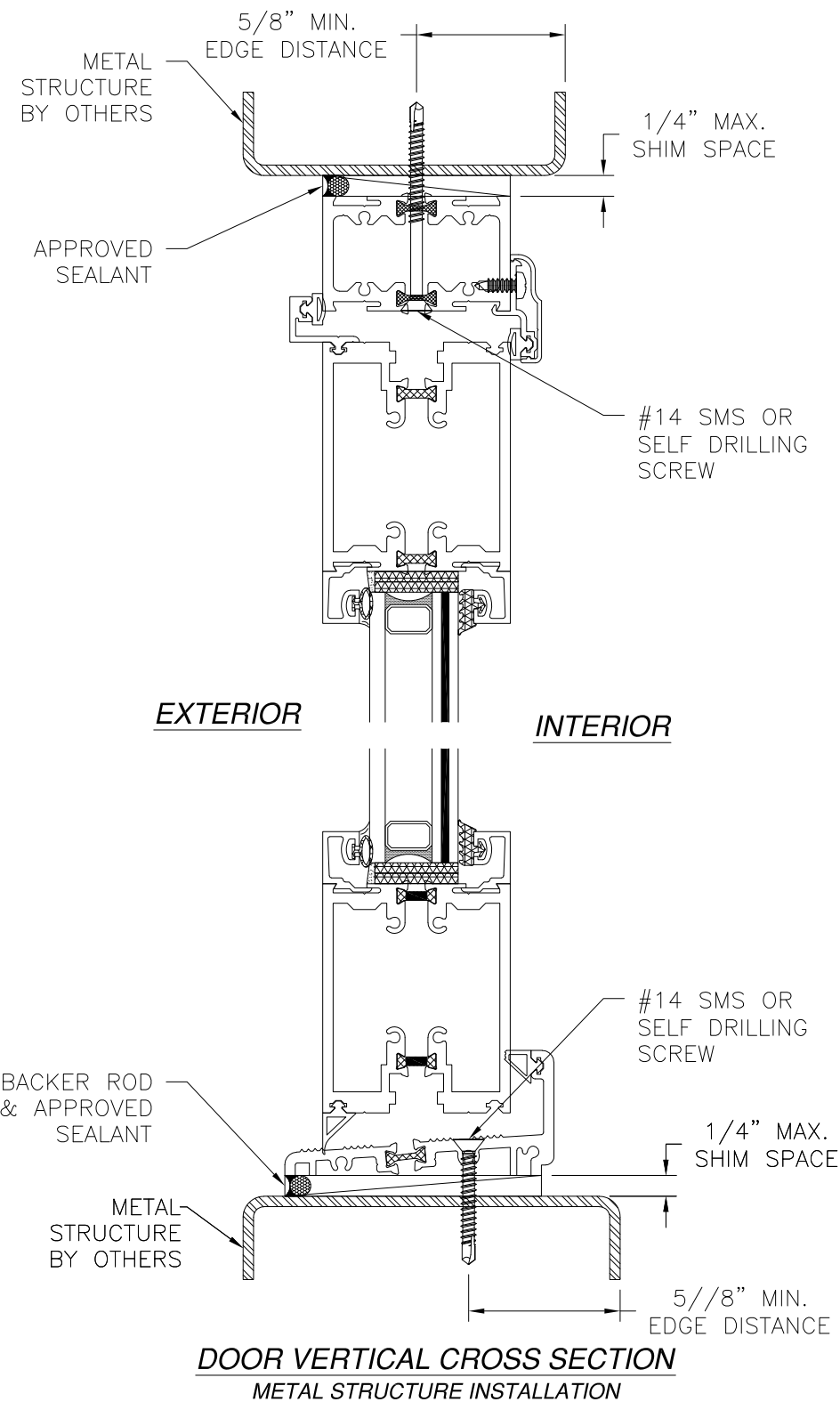
SERIES SI2000 MODULAR TERRACE DOOR
WITH HP SILL IMPACT
INSTALLATION DETAILS

DRAWN: N.G.	DWG NO. 08-02918	REV B
SCALE NTS	DATE 08/21/14	SHEET 5 OF 8

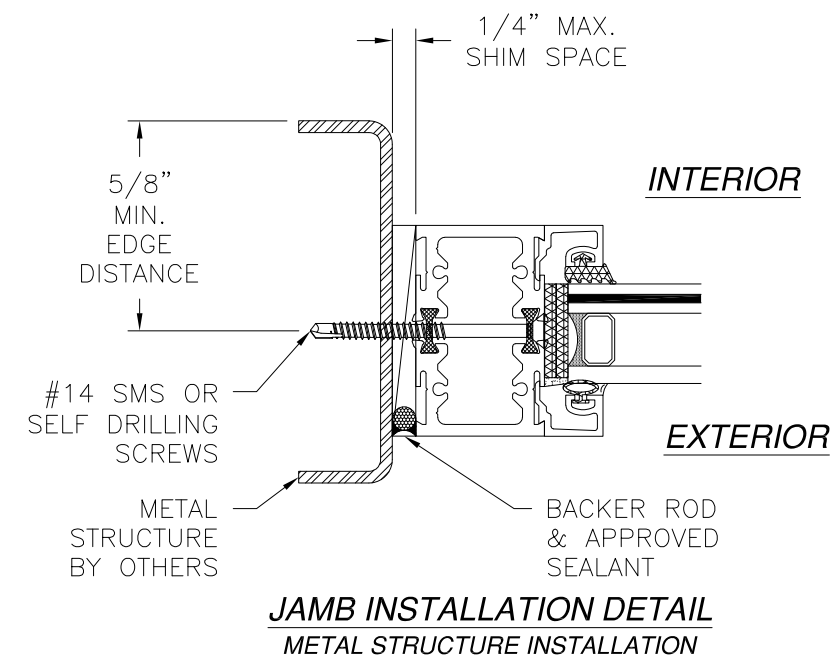
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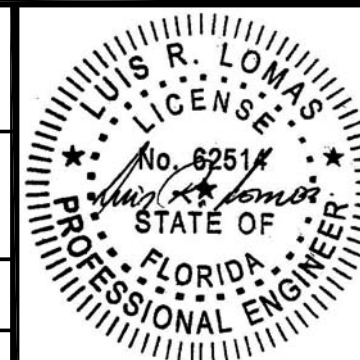


NOTES:

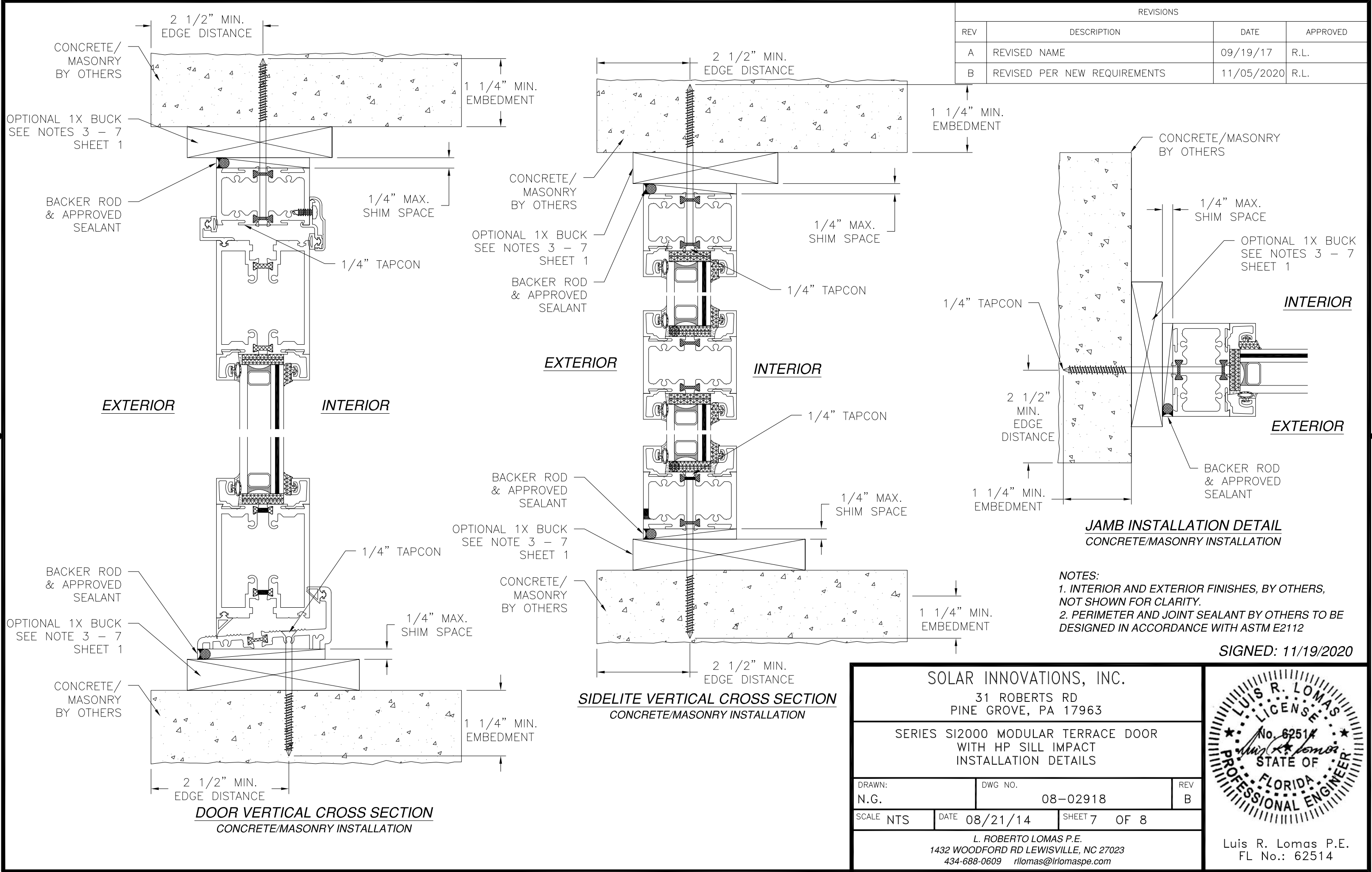
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SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI2000 MODULAR TERRACE DOOR WITH HP SILL IMPACT INSTALLATION DETAILS		
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L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

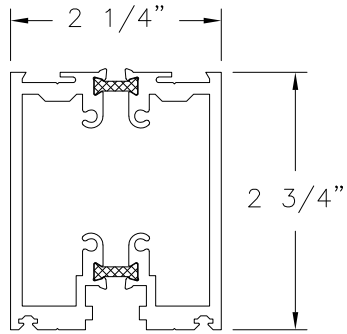
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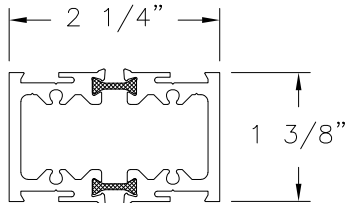
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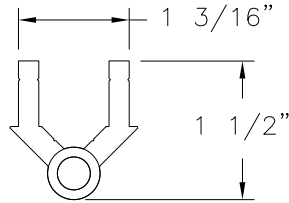
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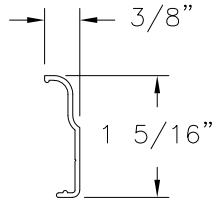
FRAME S45004
ALUMINUM 6063-T6 .125" THICK



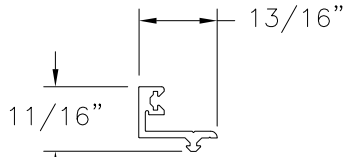
TERRACE FRAME S46535
ALUMINUM 6063-T6 .125" THICK



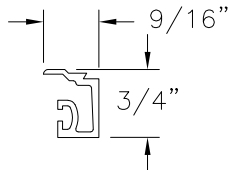
SEMI-CONCEALED HINGE



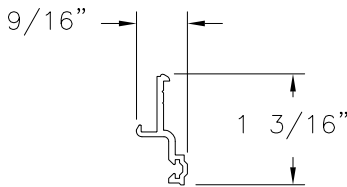
CAP S51741
ALUMINUM 6063-T6 .050" THICK



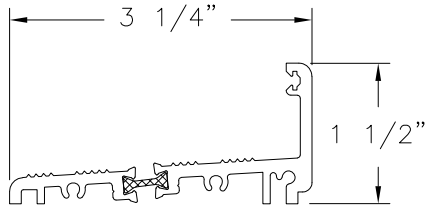
SLIDE IN DOOR STOP S52262
ALUMINUM 6063-T5 .070" THICK



GLASS STOP S34713
ALUMINUM 6063-T6 .060" THICK



DOOR STOP S46534
ALUMINUM 6063-T6 .070" THICK



SILL S56829 & 56828
ALUMINUM 6063-T6 .125" THICK

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SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI2000 MODULAR TERRACE DOOR WITH HP SILL IMPACT COMPONENTS		
DRAWN: N.G.	DWG NO. 08-02918	REV B
SCALE NTS	DATE 08/21/14	SHEET 8 OF 8
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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