

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	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 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. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION 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”.
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 RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING FIN INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #8 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 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 #8 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:
 - 18.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 18.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - 18.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 18.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048” THICK MINIMUM

SIGNED: 10/26/2023

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12	COMPONENTS

LAS ENTERPRISES

2413 L & A ROAD

METAIRIE, LA 70001

4500 OUTSWING CASEMENT WEATHERGARD III

VINYL WINDOW 36” X 72” IMPACT HVHZ

NOTES

DRAWN: V.L.

DWG NO. 08-02280

REV B

SCALE NTS

DATE 02/06/14

SHEET 1 OF 12

L. ROBERTO LOMAS P.E.

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LUIS R. LOMAS

LICENS. M. S.

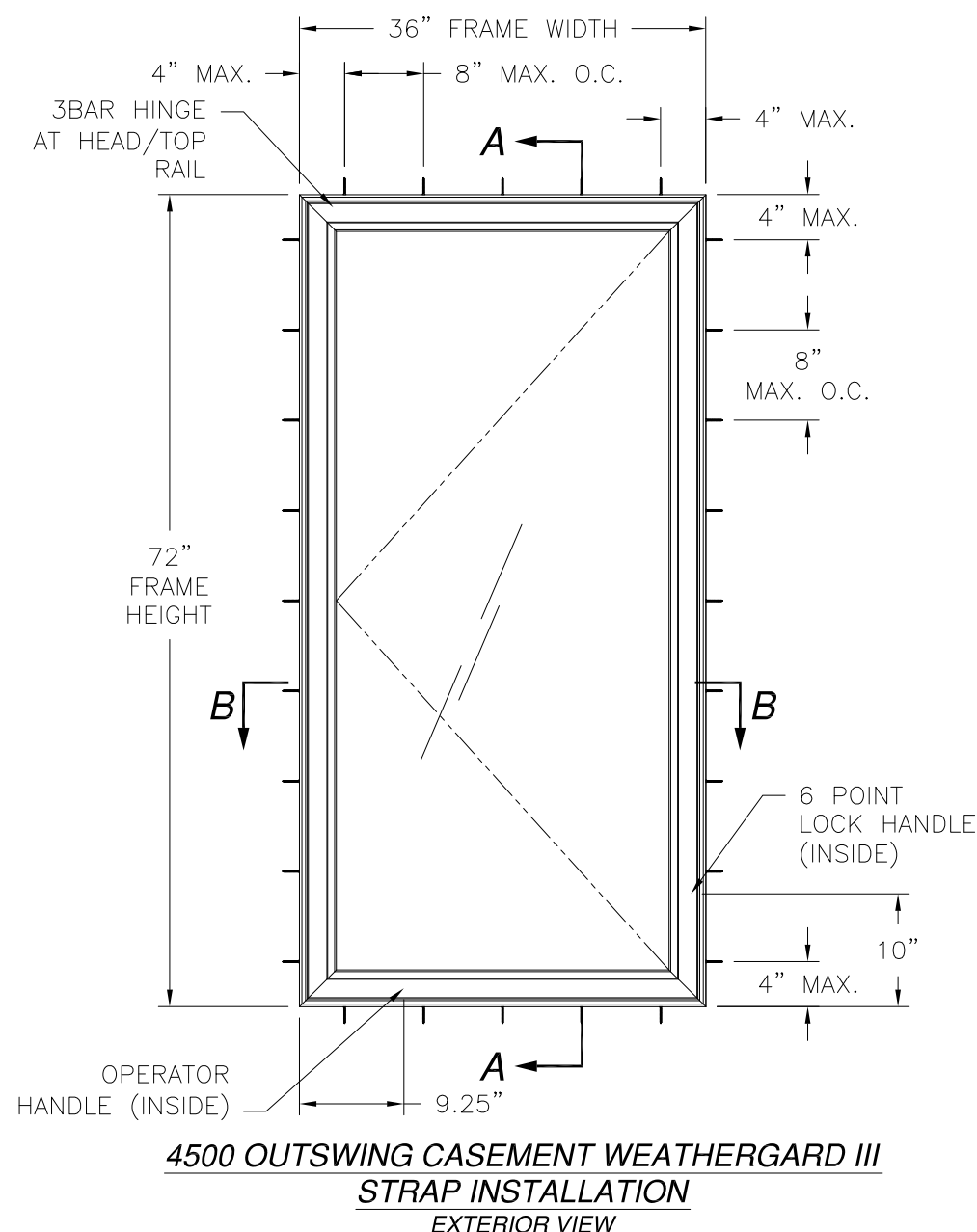
No. 62514

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Luis R. Lomas P.E.

FL No.: 62514



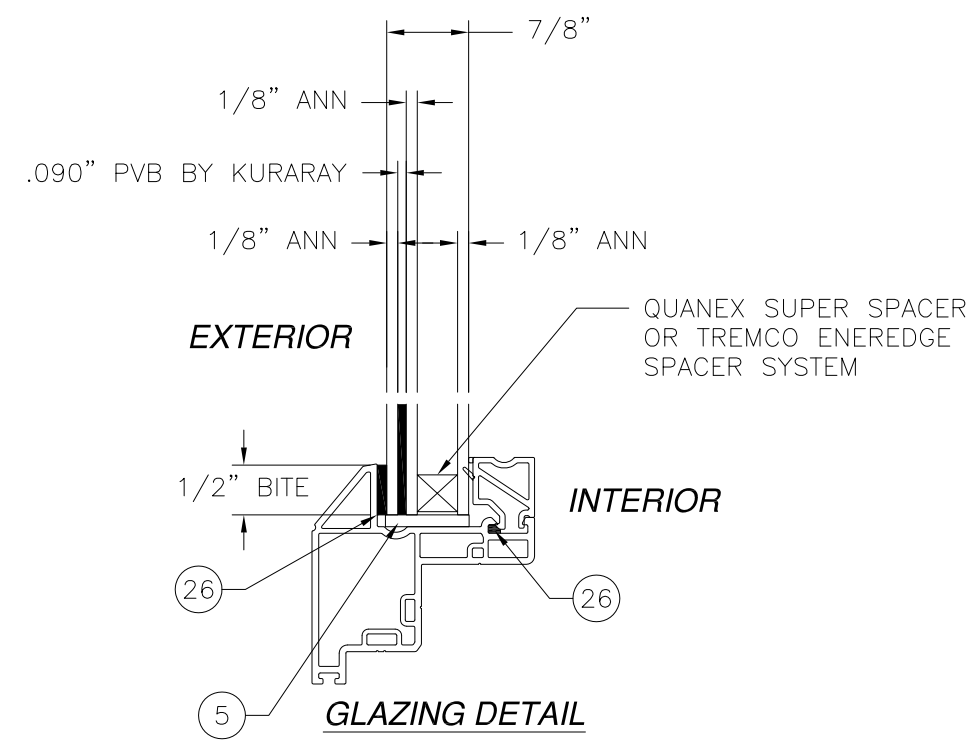
DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	LARGE & SMALL MISSILE IMPACT

LARGE MISSILE, LEVEL D AND HVHZ

- NOTES:
- SASH SIZE: 34 9/16" x 70 1/2"
 - D.L.O.: 29 1/2" x 65 1/2"

HARDWARE SCHEDULE	
A.	(1) SINGLE HANDLE SIX POINT METAL INTEGRATED LOCK SYSTEM, 10" FROM SILL ON LOCK JAMB WITH METAL KEEPERS
B.	(1) ROTO-OPERATOR, 9 1/2" FROM HINGE JAMB
C.	(3) THREE BAR HINGE AT HEAD / TOP RAIL
D.	(1) FULL LENGTH RIGID VINYL SNUBBER AT HINGE JAMB
E.	(9) LOCK BAR GUIDES AT INTEGRATED LOCK

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LAS ENTERPRISES
2413 L & A ROAD
METAIRIE, LA 70001

4500 OUTSWING CASEMENT WEATHERGARD III
VINYL WINDOW 36" X 72" IMPACT HVHZ
STRAP ELEVATION AND GLAZING DETAIL

DRAWN: V.L.	DWG NO. 08-02280	REV B
SCALE NTS	DATE 02/06/14	SHEET 2 OF 12

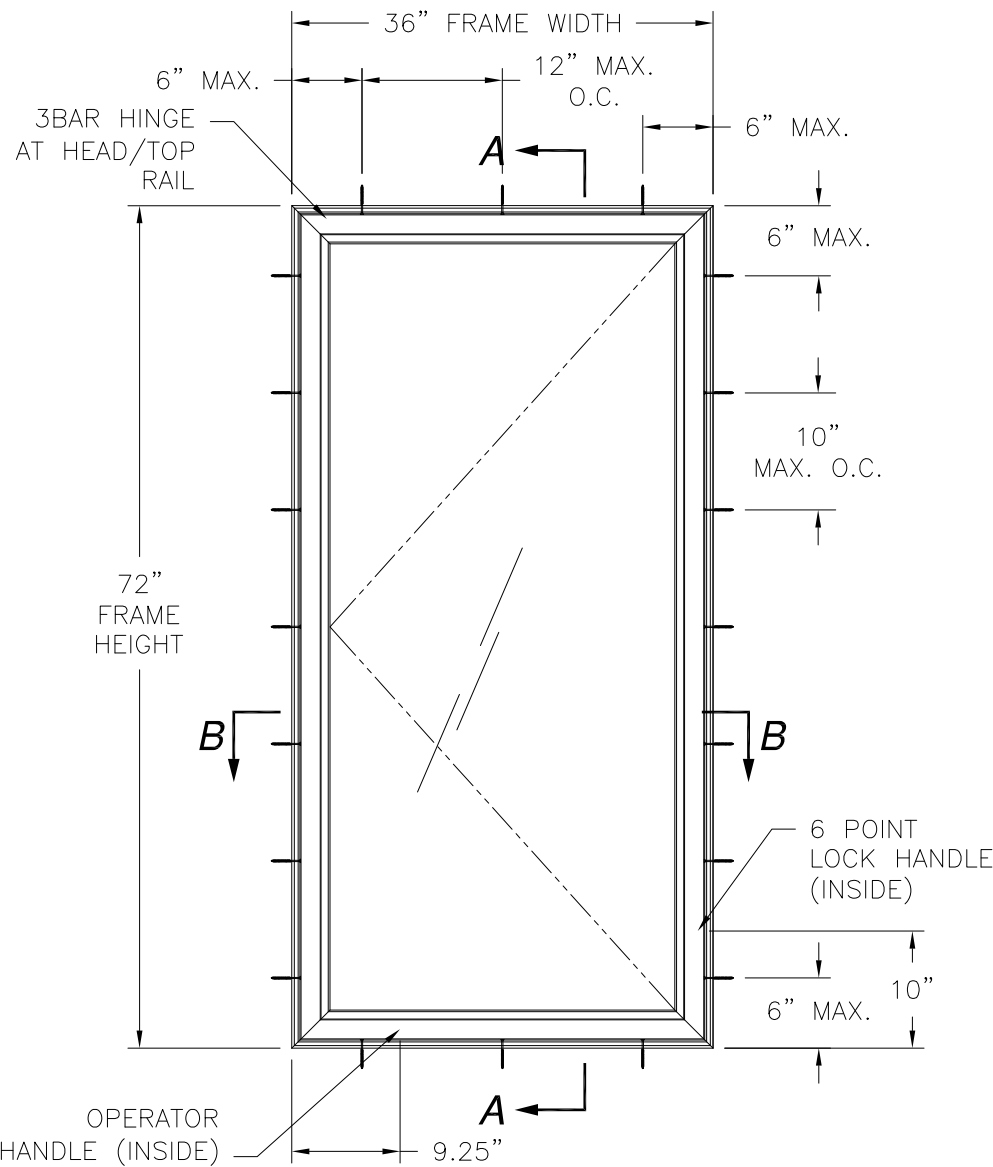
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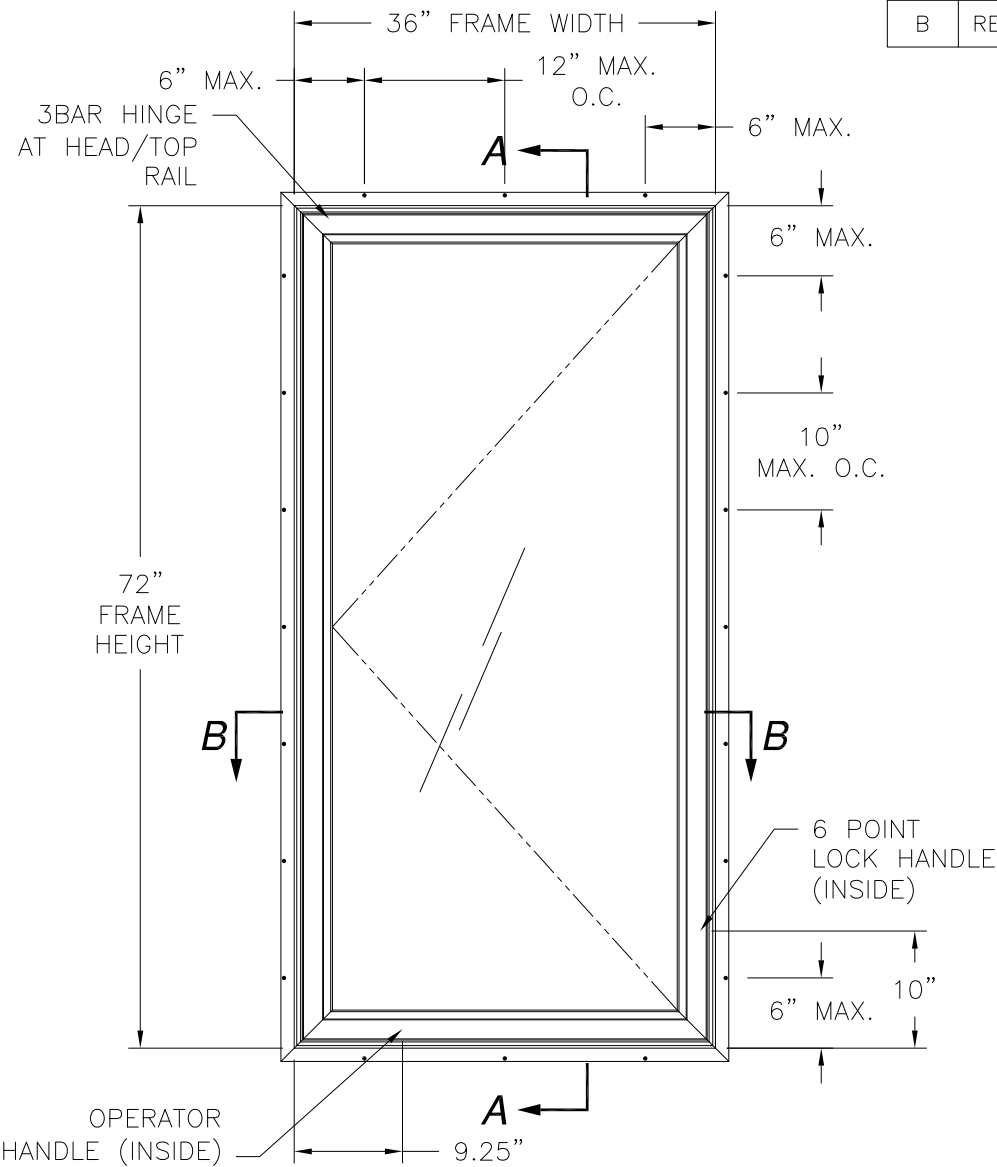
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4500 OUTSWING CASEMENT WEATHERGARD III
FLUSH INSTALLATION
EXTERIOR VIEW



4500 OUTSWING CASEMENT WEATHERGARD III
FIN INSTALLATION
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
$\pm 70.0 \text{ PSF}$	LARGE & SMALL MISSILE IMPACT

LARGE MISSILE, LEVEL D AND HVHZ

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E.	(9) LOCK BAR GUIDES AT INTEGRATED LOCK

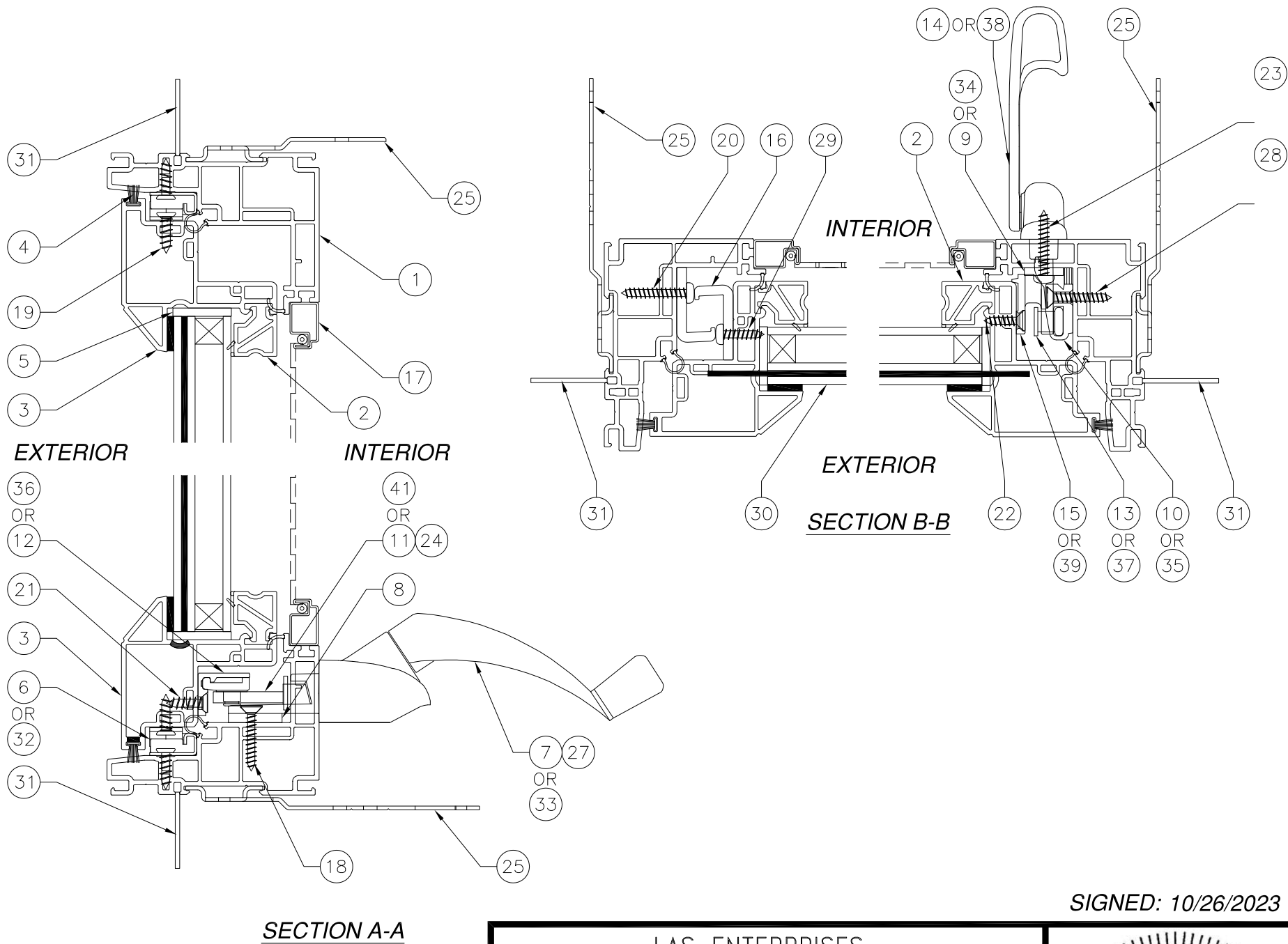
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4500 OUTSWING CASEMENT WEATHERGARD III VINYL WINDOW 36" X 72" IMPACT HVHZ FLUSH AND FIN ELEVATIONS		
DRAWN: V.L.	DWG NO. 08-02280	REV B
SCALE NTS	DATE 02/06/14	SHEET 3 OF 12
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PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	4506	FRAME	ENERGI FEN. SOLN.	WHITE PVC
2	4413	7/8" GLAZING BEAD	ENERGI FEN. SOLN.	WHITE PVC
3	8619	SASH	ENERGI FEN. SOLN.	WHITE PVC
4	PB8830187	WEATHER STRIP	SCHLEGEL	
5		SETTING BLOCK (23X50.8X32mm)		80 DUROMETER
6	HG040703	HINGES	ROTO	
7	OP05-7502	DUAL ARM OPERATOR	ROTO	
8	OP05-1003-51	BOTTOM SPACER 3.2MM	ROTO	
9	G2HNDLPLT-02	FASTENER PLATE	ROTO	
10	LB05-1004-51	TIE BAR GUIDE	ROTO	
11	OP05-8002	STUD BRACKET	ROTO	
12	OP05-8100	OPERATOR TRACK	ROTO	
13	LB06-770	TIE BAR	ROTO	
14	LM08-7520-00	LOCK	ROTO	
15	LB05-1003-51	KEEPER	ROTO	
16	6067	SNUBBER		
17		7/16" SCREN FRAME		
18		OPERATOR SCREWS FH #8 X 1"		
19		HINGE SCREWS FH #7 X 5/8"		
20		SNUBBER SCREWS FH #8 X 1"		
21		OPERATOR SCREWS FH #7 X 5/8"		
22		KEEPER SCREWS FH #8 X 5/8"		
23		LOCK SCREWS PH #8 X 1"		
24		STUD BRACKET SCREWS FH#7X5/8"		
25	4560	INTALLATION STRIP		STEEL G60
26	995	STRUCTURAL SEALANT	DOW CORNING	
27	OP05-7810	HANDLE	ROTO	
28		TIE BAR GUIDE SCREW FH #8 X 1"		
29		SNUBBER SCREWS # 8 X 1"		
30		7/8" IGU 1/8" ANN LAMINATED		
31		FIN	ENERGI FEN. SOLN.	WHITE PVC
32	14.97	HINGES	TRUTH	
33	50.00	DUAL ARM OPERATOR	TRUTH	
34	21600E	FASTENER PLATE	TRUTH	
35	10276	TIE BAR GUIDE	TRUTH	
36	41014	OPERATOR TRACK	TRUTH	
37		TIE BAR	TRUTH	
38	24-33	LOCK	TRUTH	
39	41129	KEEPER	TRUTH	
40	11454	HANDLE	TRUTH	
41	12511	STUD BRACKET	TRUTH	



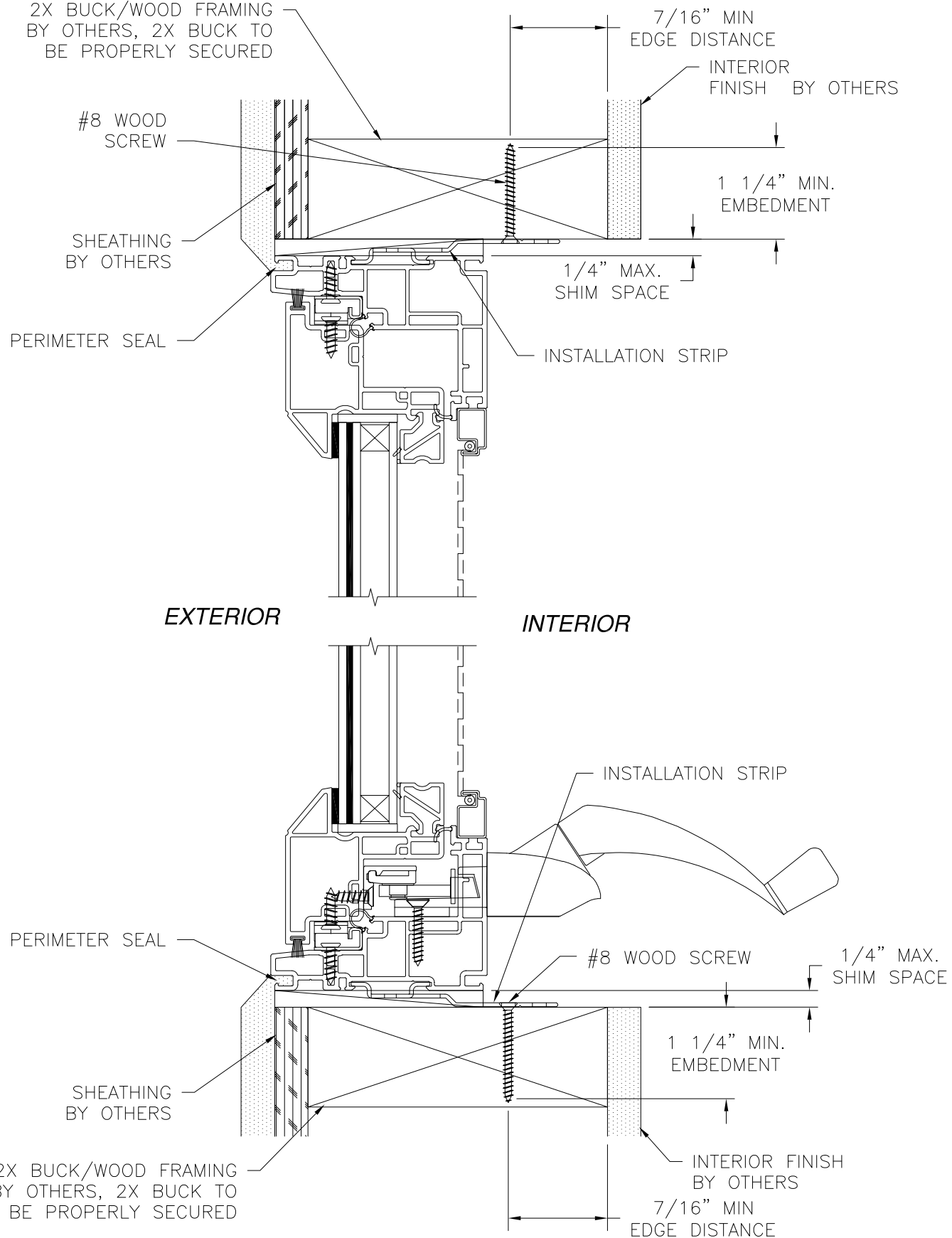
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LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
4500 OUTSWING CASEMENT WEATHERGARD III VINYL WINDOW 36" X 72" IMPACT HVHZ CROSS SECTIONS AND BILL OF MATERIALS		
DRAWN: V.L.	DWG NO. 08-02280	REV B
SCALE NTS	DATE 02/06/14	SHEET 4 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

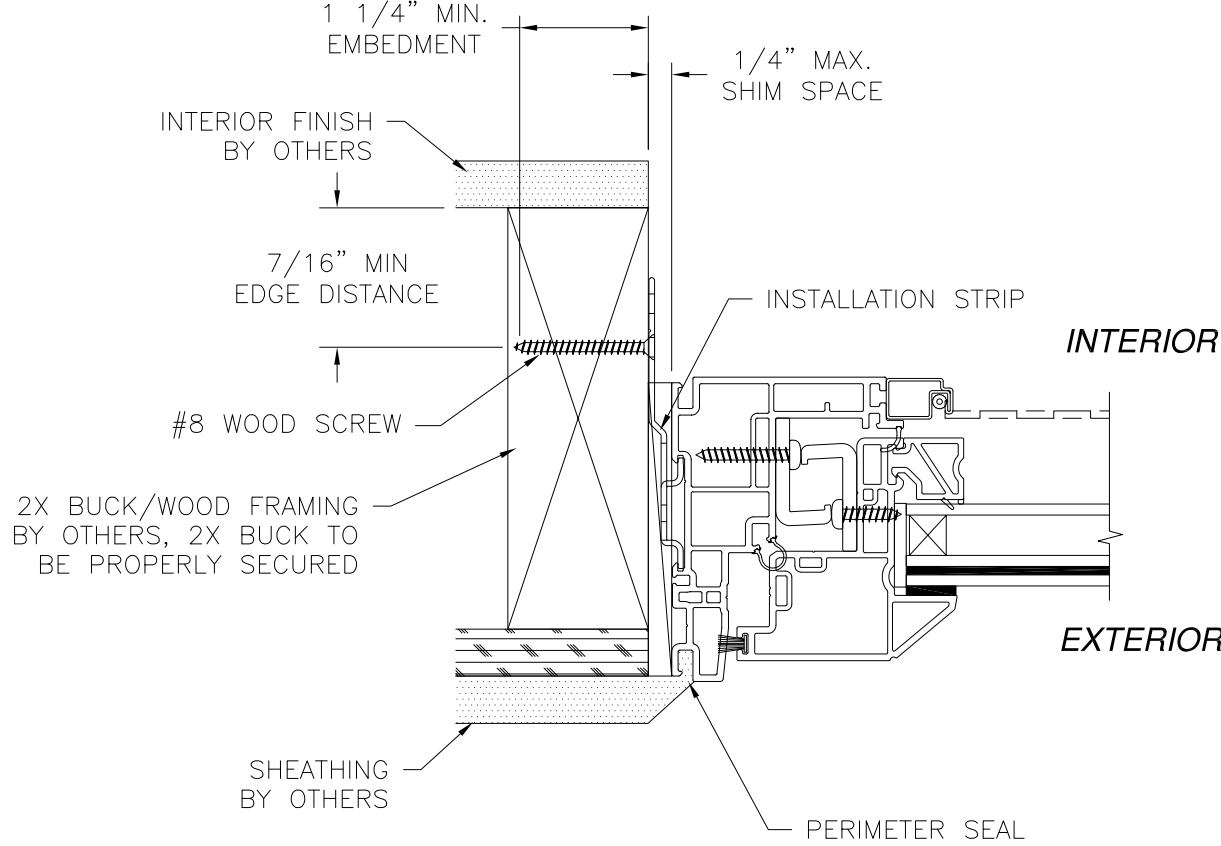
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VERTICAL CROSS SECTION
STRAP INSTALLATION 2X BUCK/WOOD FRAMING



HORIZONTAL CROSS SECTION
STRAP INSTALLATION 2X BUCK/WOOD FRAMING

- 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

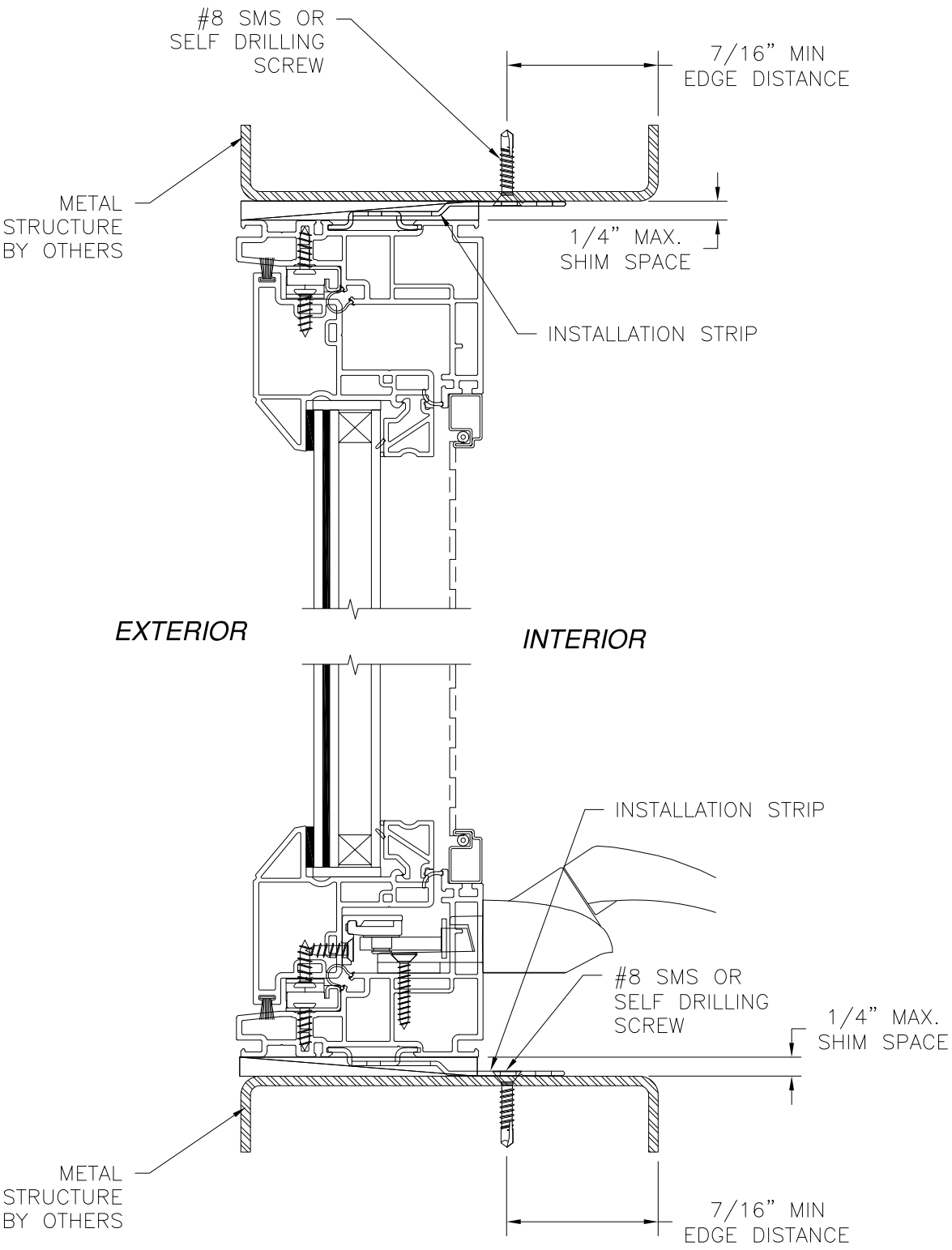
LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
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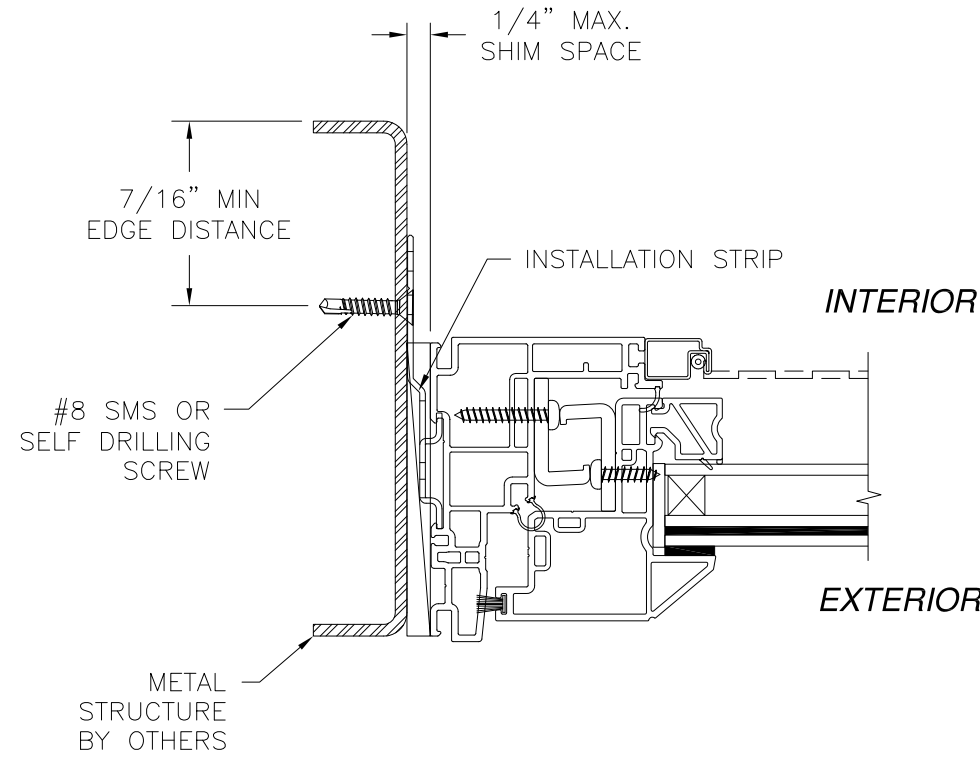


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VERTICAL CROSS SECTION
STRAP INSTALLATION METAL STRUCTURE



HORIZONTAL CROSS SECTION
STRAP INSTALLATION METAL STRUCTURE

- NOTES:
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LAS ENTERPRISES
2413 L & A ROAD
METAIRIE, LA 70001

4500 OUTSWING CASEMENT WEATHERGARD III
VINYL WINDOW 36" X 72" IMPACT HVHZ
STRAP INSTALLATION DETAILS

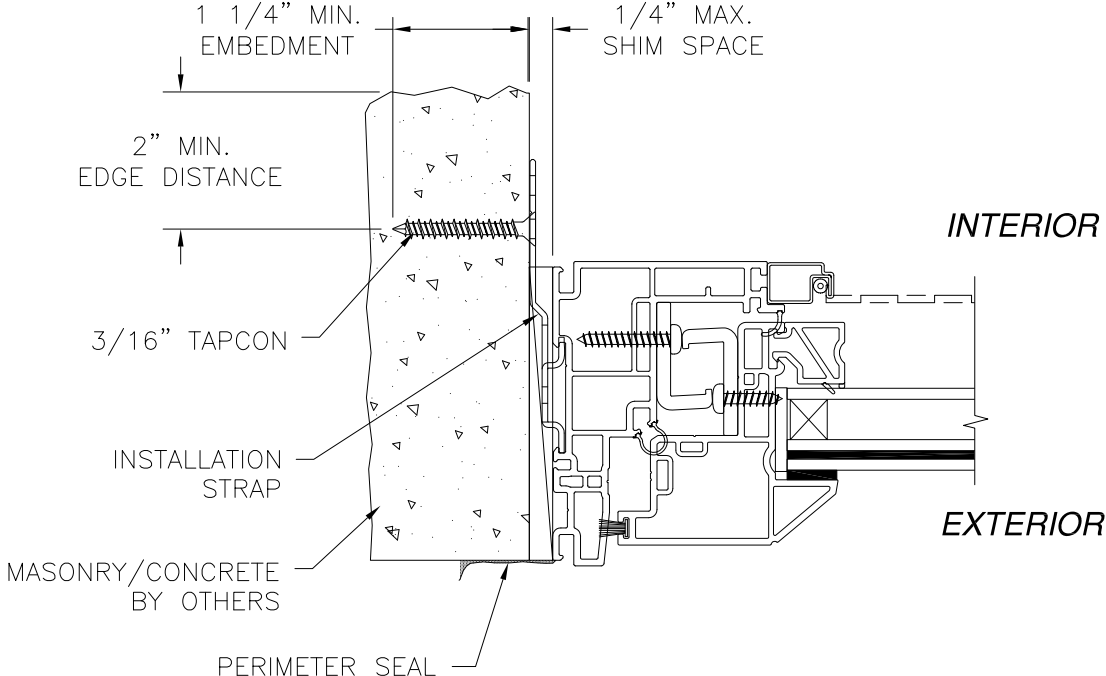
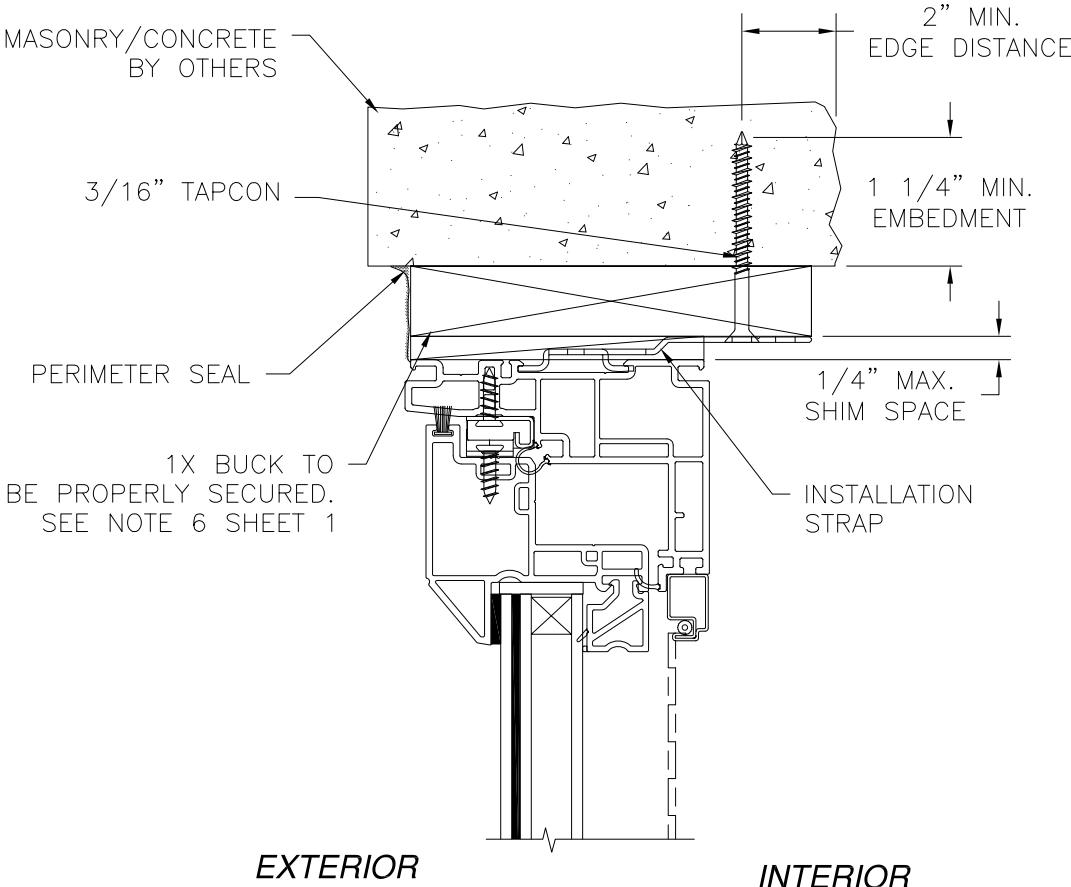
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SCALE NTS	DATE 02/06/14	SHEET 6 OF 12

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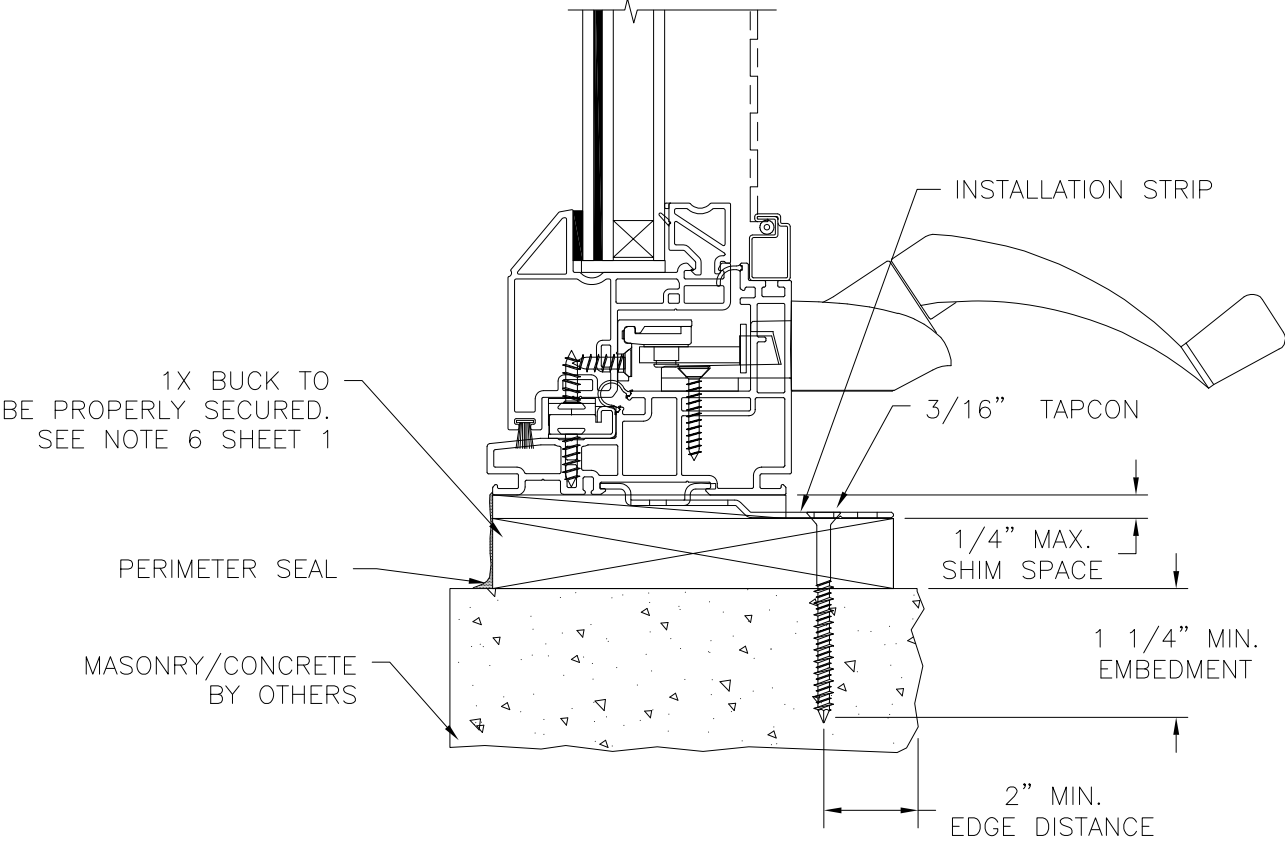
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JAMB INSTALLATION DETAIL
STRAP CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

- 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



VERTICAL CROSS SECTION
STRAP CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL

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LAS ENTERPRISES

2413 L & A ROAD
METAIRIE, LA 70001

4500 OUTSWING CASEMENT WEATHERGARD III
VINYL WINDOW 36" X 72" IMPACT HVHZ
STRAP INSTALLATION DETAILS

DRAWN:
V.L.

DWG NO.
08-02280

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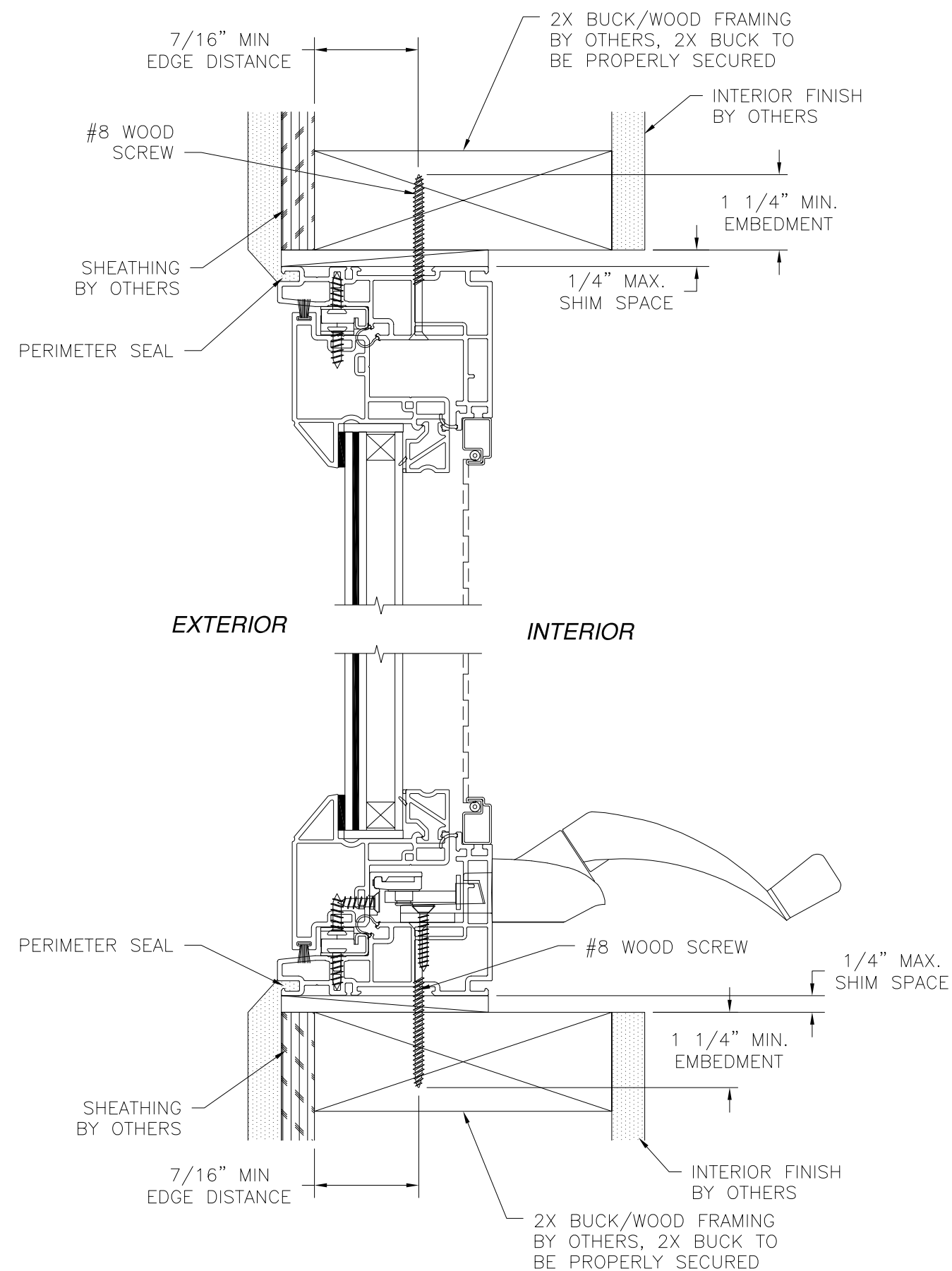
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SHEET
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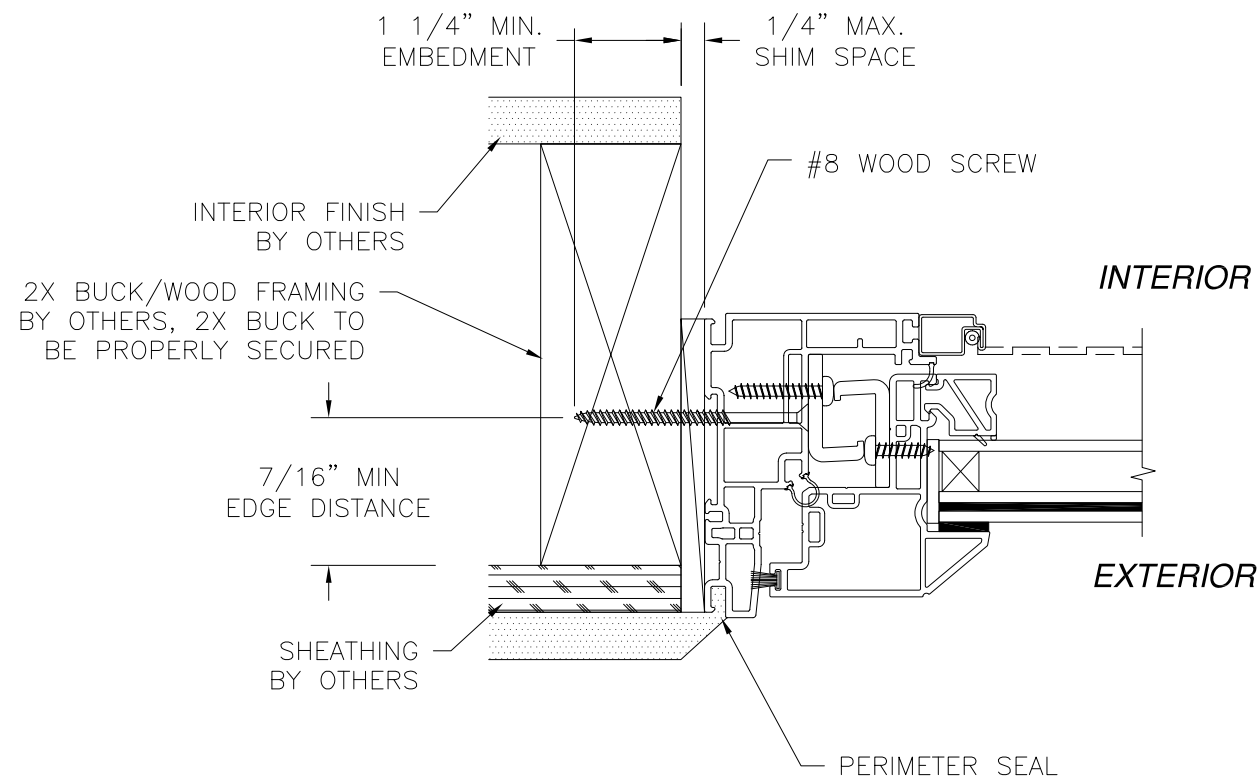
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VERTICAL CROSS SECTION
FLUSH INSTALLATION 2X BUCK/WOOD FRAMING



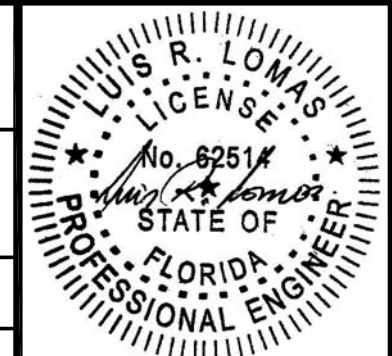
HORIZONTAL CROSS SECTION
FLUSH INSTALLATION 2X BUCK/WOOD FRAMING

NOTES:

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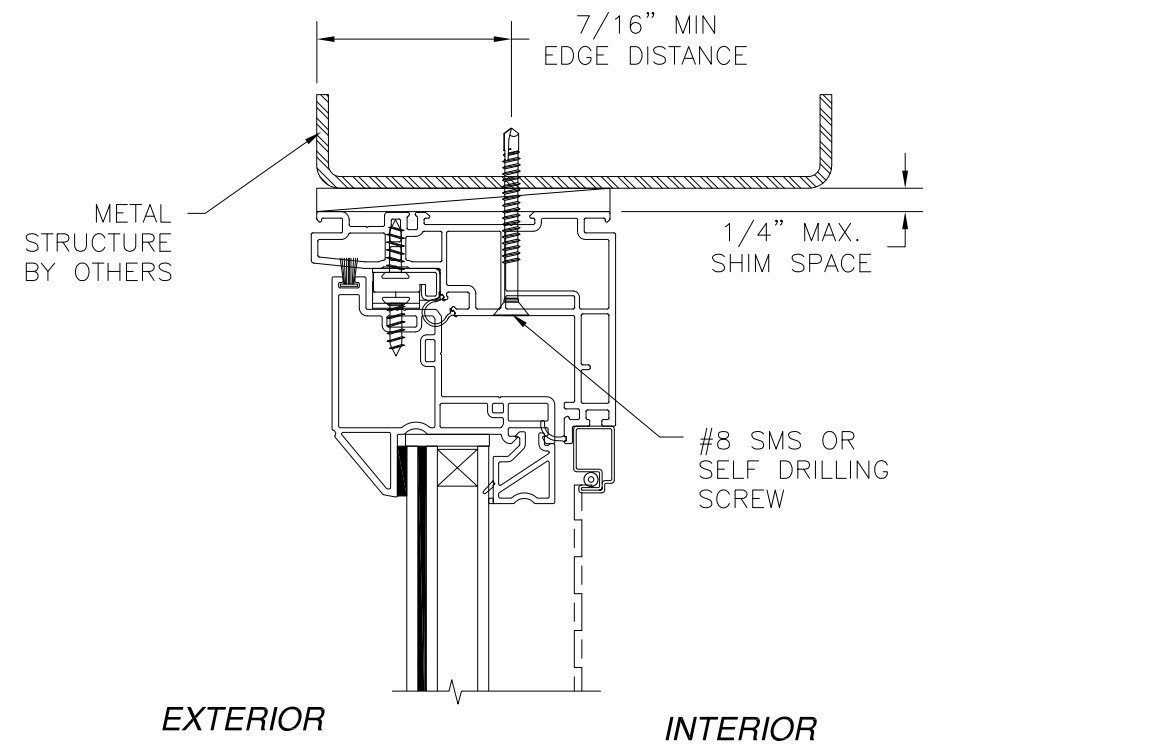
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LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
4500 OUTSWING CASEMENT WEATHERGARD III VINYL WINDOW 36" X 72" IMPACT HVHZ FLUSH INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02280	REV B
SCALE NTS	DATE 02/06/14	SHEET 8 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

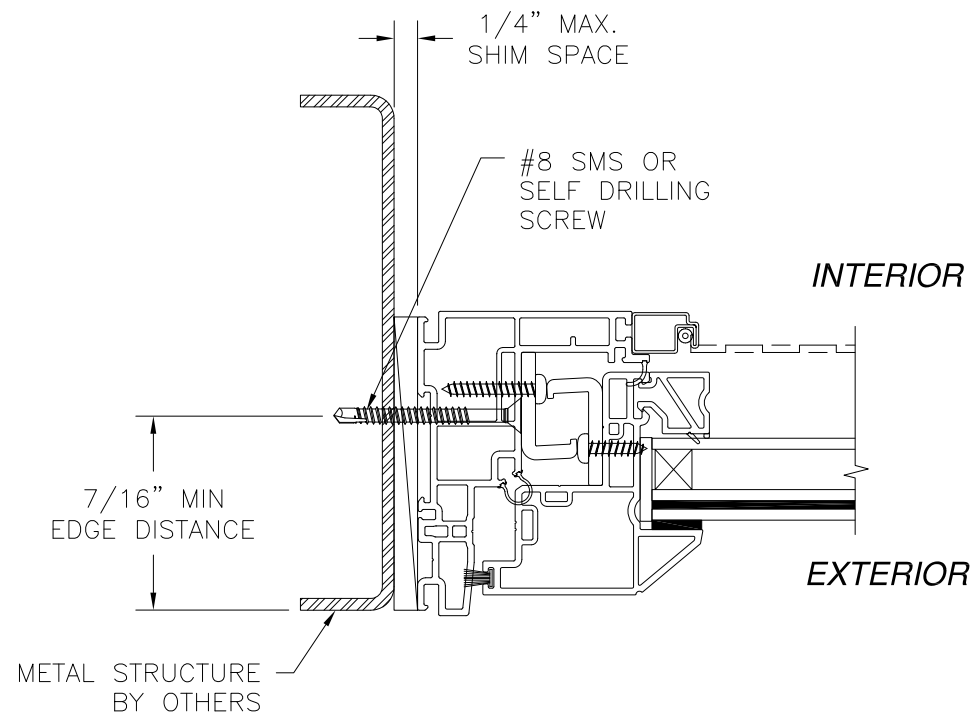


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VERTICAL CROSS SECTION
FLUSH INSTALLATION METAL STRUCTURE



HORIZONTAL CROSS SECTION
FLUSH INSTALLATION METAL STRUCTURE

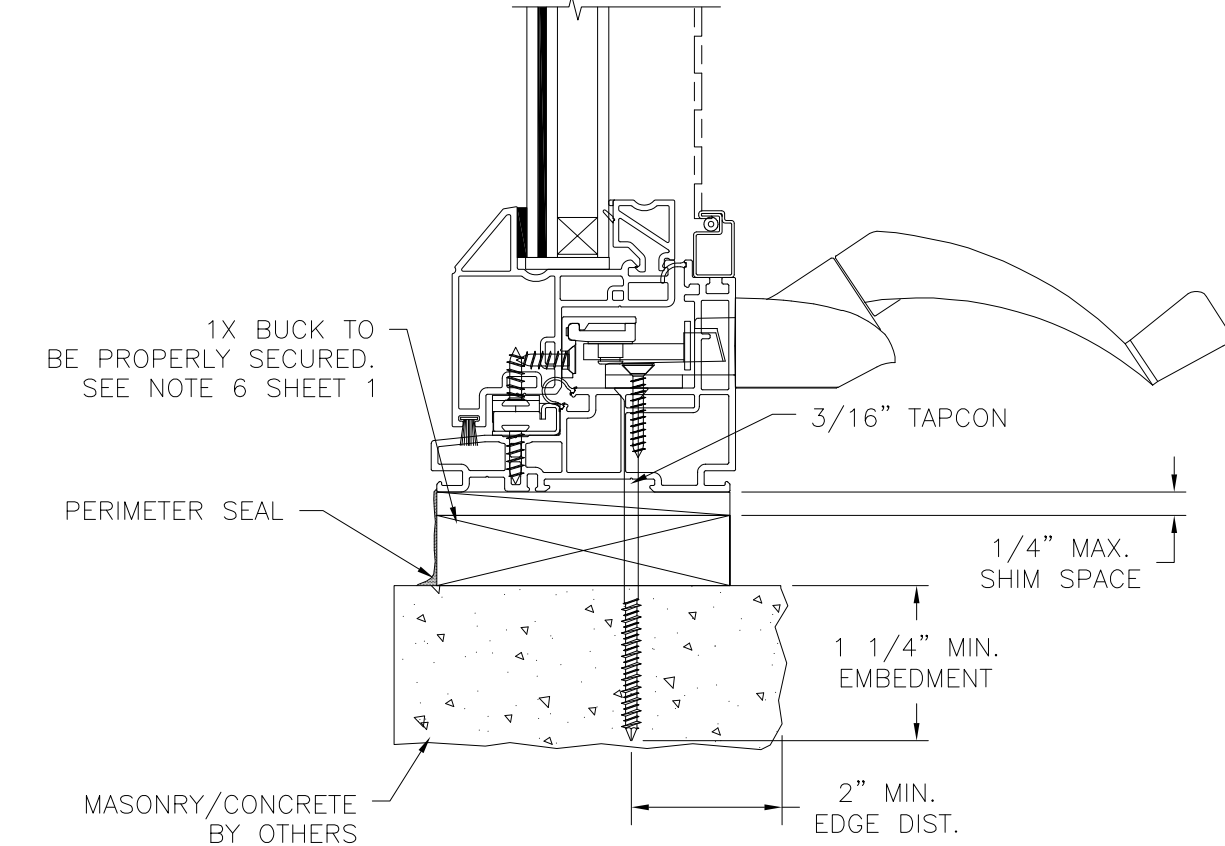
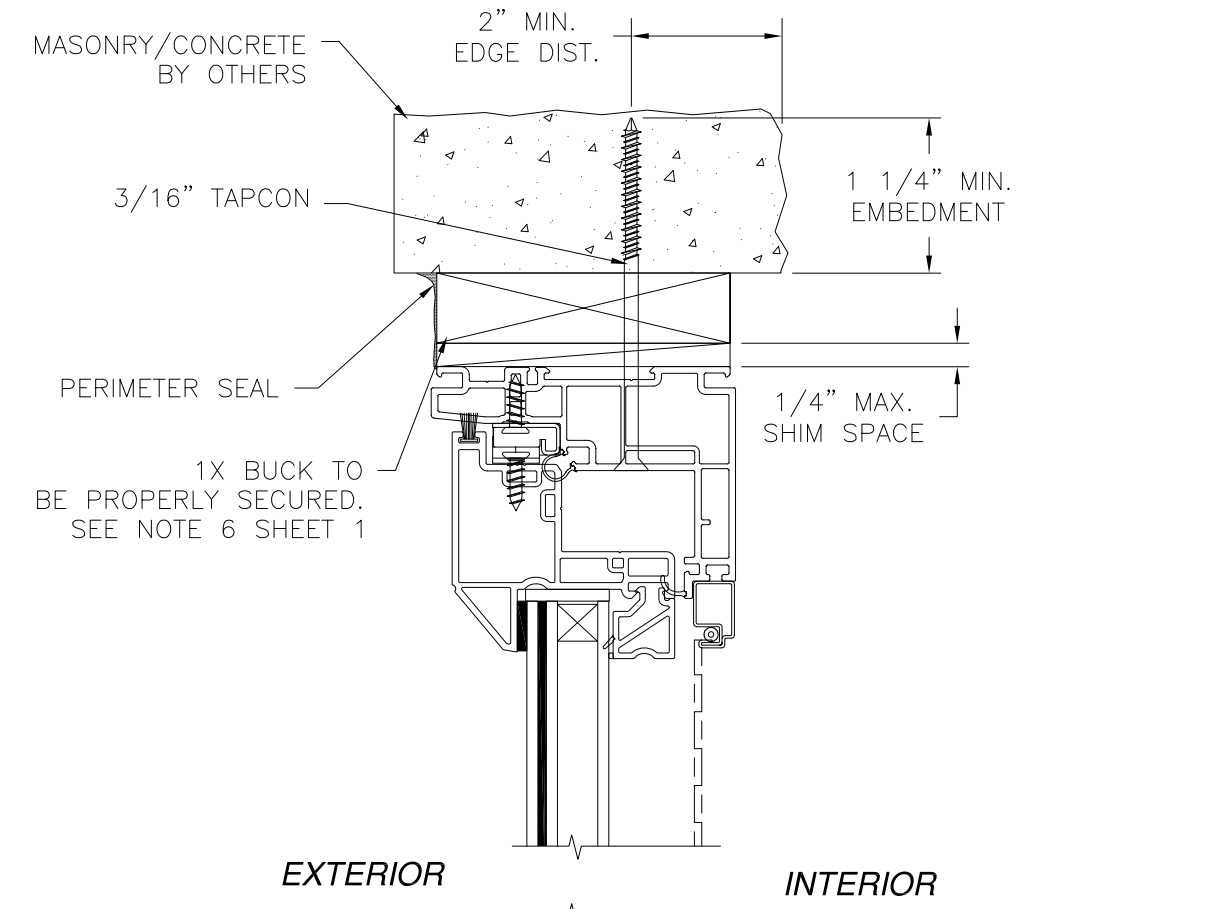
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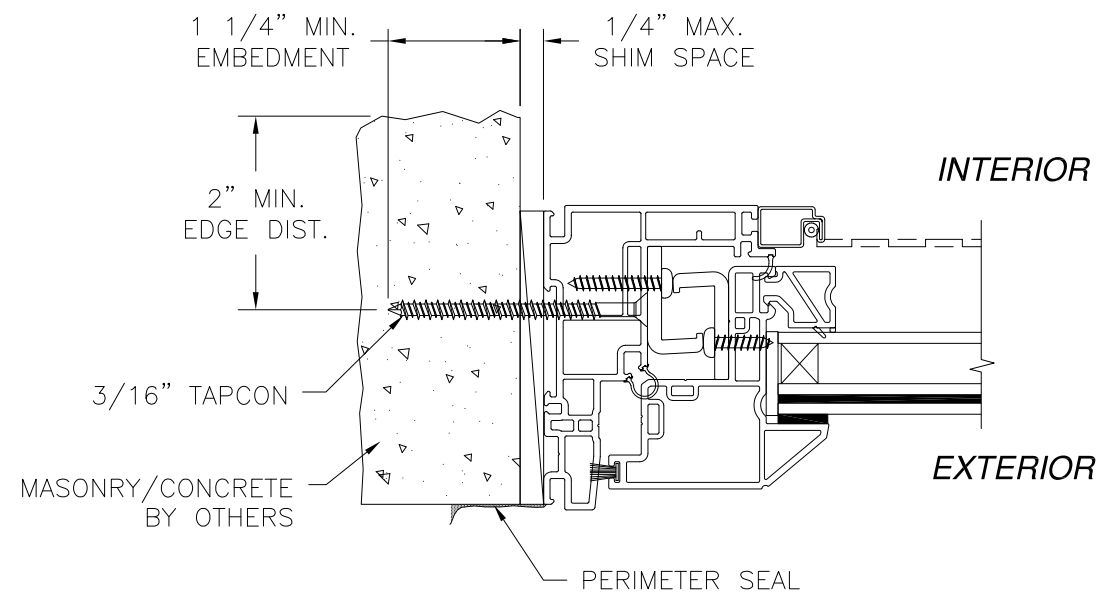
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VERTICAL CROSS SECTION
FLUSH CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL

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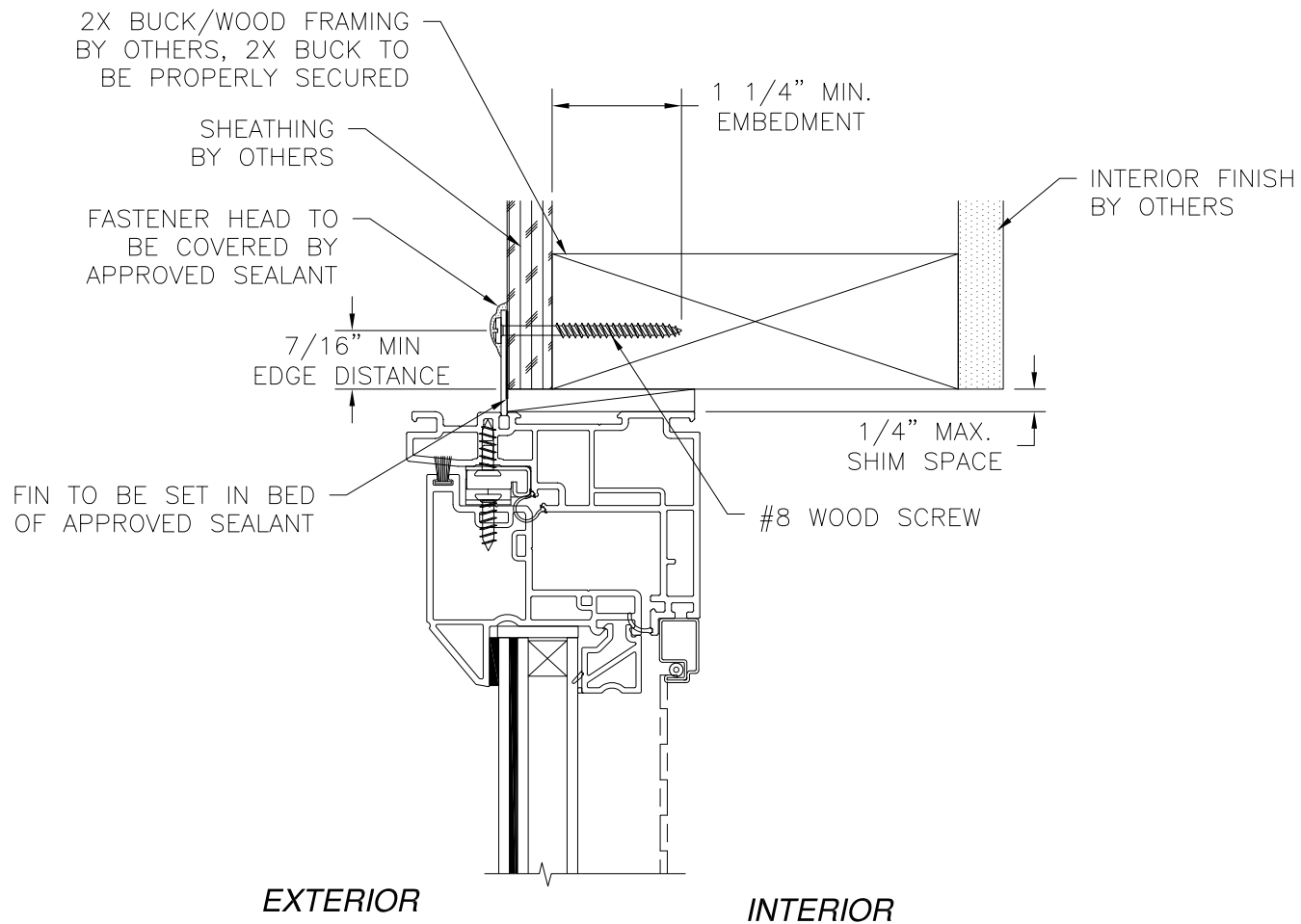
JAMB INSTALLATION DETAIL
FLUSH CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

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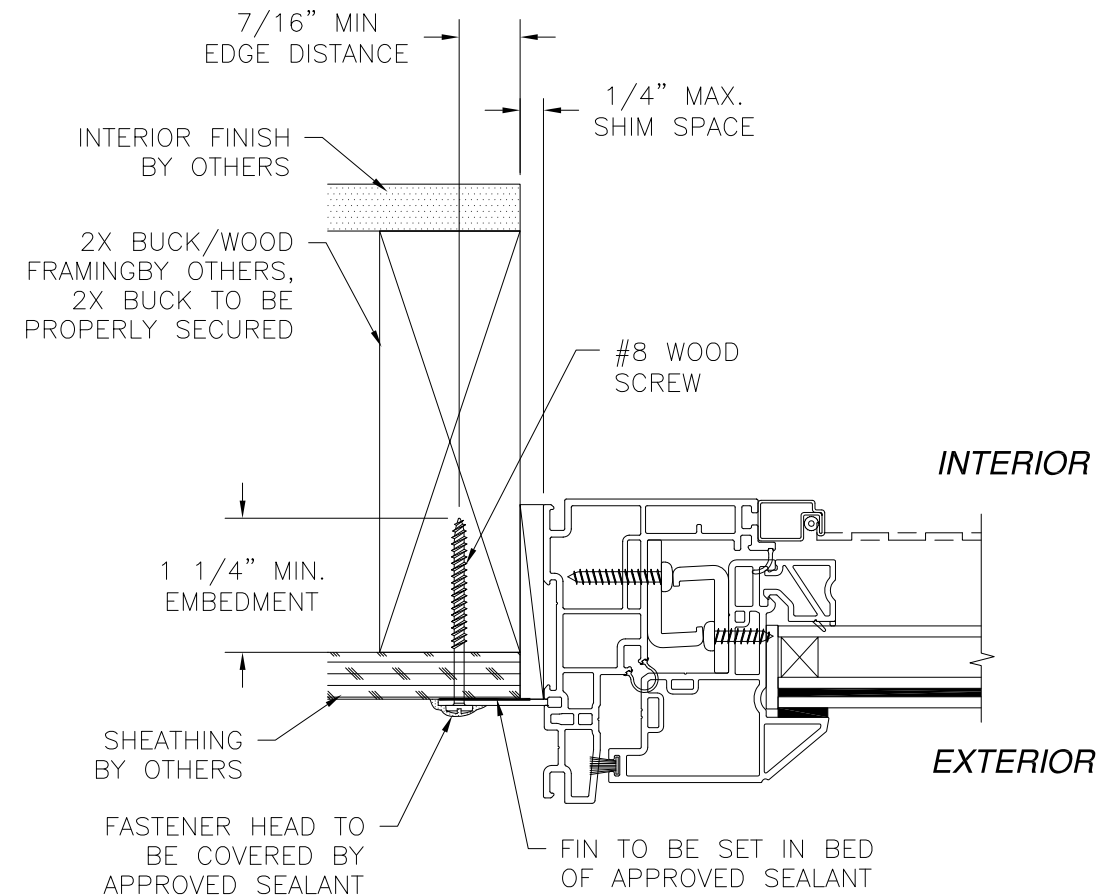
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LAS ENTERPRISES 2413 L & A ROAD METAIRIE, LA 70001		
4500 OUTSWING CASEMENT WEATHERGARD III VINYL WINDOW 36" X 72" IMPACT HVHZ FLUSH INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02280	REV B
SCALE NTS	DATE 02/06/14	SHEET 10 OF 12
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Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.



VERTICAL CROSS SECTION
FIN INSTALLATION 2X BUCK/WOOD FRAMING



HORIZONTAL CROSS SECTION
FIN INSTALLATION 2X BUCK/WOOD FRAMING

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 E212

LAS ENTERPRISES

2413 L & A ROAD
METAIRIE, LA 70001

4500 OUTSWING CASEMENT WEATHERGARD III
VINYL WINDOW 36" X 72" IMPACT HVHZ
FIN INSTALLATION DETAILS

DRAWN:
V.L.

DWG NO.

08-02280

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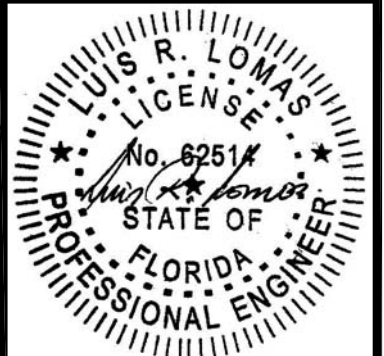
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SHEET 11 OF 12

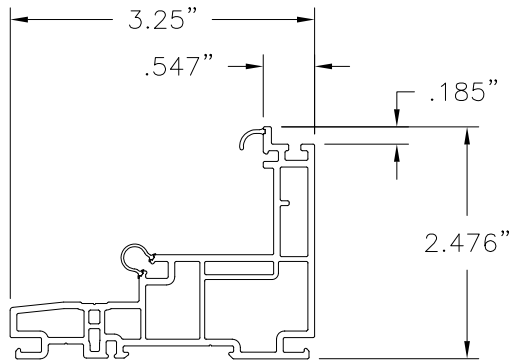
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434-688-0609 rllomas@rlomaspe.com

SIGNED: 10/26/2023

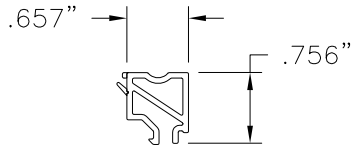


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FL No.: 62514

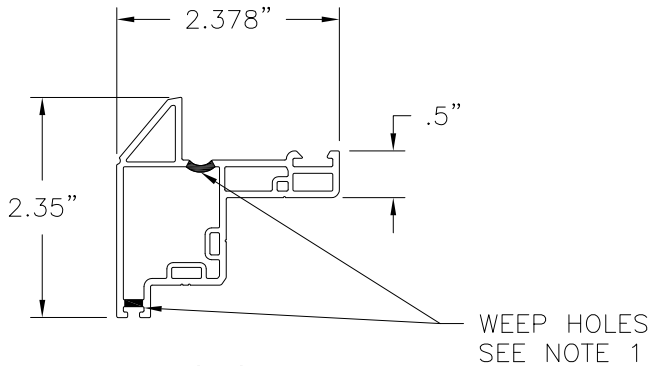
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW CODE	08/16/2023	R.L.



1 **FRAME**
VINYL PVC .071 THICK

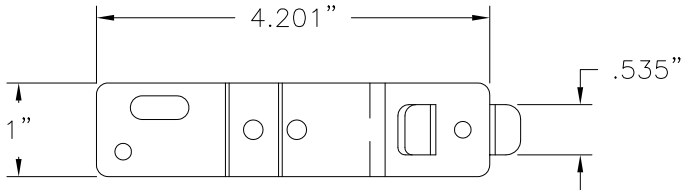


2 **GLAZING BEAD**
VINYL PVC .059 THICK

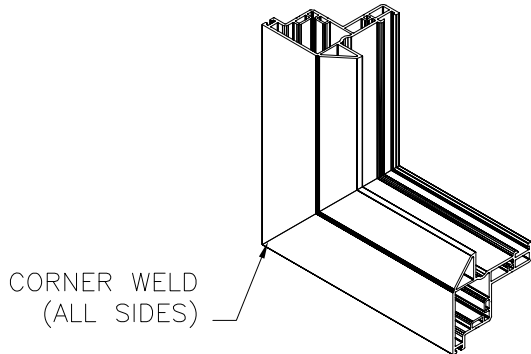
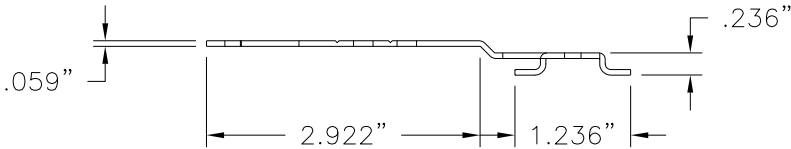


3 **SASH**
VINYL PVC .071 THICK

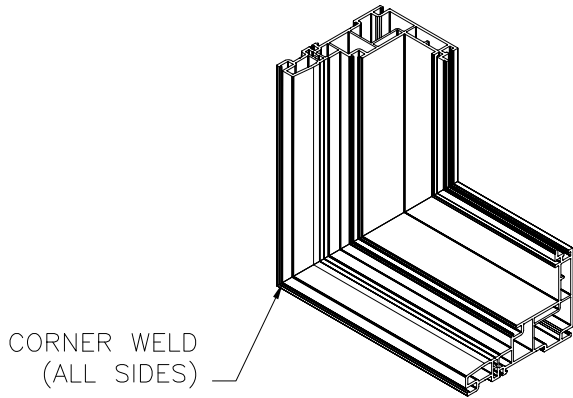
NOTE:
1.- 5/32" DIAMETER WEEP HOLE LOCATED 1 3/4" FROM EACH END OF SASH BOTTOM RAIL.



25 **INSTALLATION STRIP**
GALVANIZED STEEL G60



SASH CORNER CONSTRUCTION



FRAME CORNER CONSTRUCTION

SIGNED: 10/26/2023

LAS ENTERPRISES

2413 L & A ROAD
METAIRIE, LA 70001

4500 OUTSWING CASEMENT WEATHERGARD III
VINYL WINDOW 36" X 72" IMPACT HVHZ
COMPONENTS

DRAWN:
V.L.

DWG NO.
08-02280

REV
B

SCALE NTS

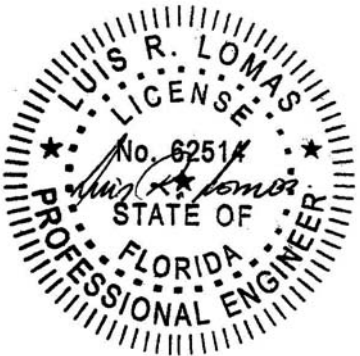
DATE 02/06/14

SHEET 12 OF 12

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

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