REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
А	REVISED PER TDI COMMENTS	07/16/19	R.L.

NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC AND 2006 IRC WITH STATE OF TEXAS MODIFICATIONS, AND WITH THE 2009 IBC, 2009 IRC, 2012 IBC, 2012 IRC, 2015 IBC AND 2015 IRC.
- 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. 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".
- 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 E1300-04/09.
- 13. APPROVED IMPACT PROTECTIVE SYSTEM <u>IS REQUIRED</u> FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 14. FOR ANCHORING THROUGH 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.

SHEET NO.

NOTES

ELEVATIONS

7 - 10 INSTALLATION DETAILS

- 15. FOR ANCHORING THROUGH FRAME 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.
- 16. FOR ANCHORING THROUGH FRAME 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.
- 17. FOR ANCHORING THROUGH FRAME 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.
- 18. ALL FASTENERS TO BE CORROSION RESISTANT.
- 19. 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 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH f'm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048" THICK MINIMUM.

SIGNED: 07/16/2019

VISTAMARK ENTERPRISES, LLC 3637 N HIGHWAY 77, SUITE C WAXAHACHIE, TX 75165 SERIES ENDURA 110 PVC SINGLE HUNG REINFORCED NON-IMPACT NOTES DRAWN: R.L. DWG NO. R.L. DWG NO. REV A SCALE NTS DATE 07/31/15 SHEET 1 OF 10 L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

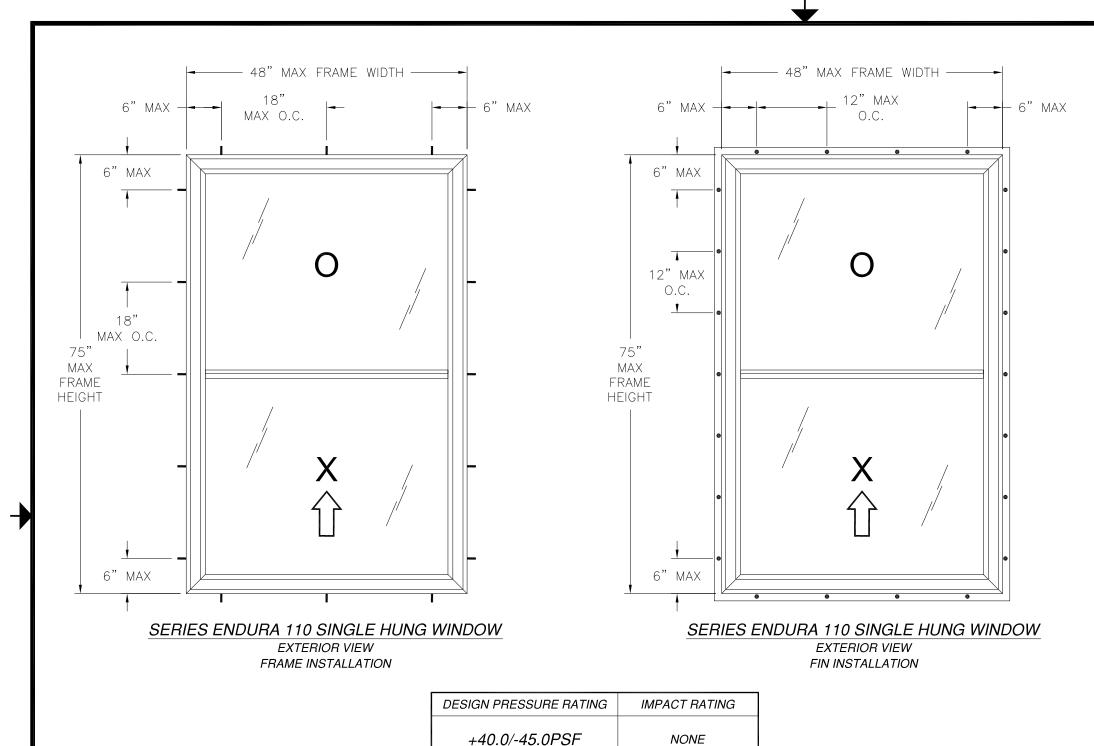


Luis R. Lomas P.E. TX No.: 101889



TABLE OF CONTENTS

DESCRIPTION



REVISIONS

REV DESCRIPTION DATE APPROVED

A REVISED PER TDI COMMENTS 07/16/19 R.L.

SIGNED: 07/16/2019

NOTES:

- 1. MAXIMUM SASH SIZE: 45 3/8" X 36 1/2"
- 2. MAXIMUM D.L.O.: 43 1/8" X 33 3/8"

HARDWARE SCHEDU	ILE

- A. (2) COMPOSITE LOCK AT 8 1/2" FROM EACH END OF LOCK RAIL
- B. (2) CONSTANT FORCE BALANCE SYSTEM WITH LOCKING TILT SHOE ONE PER JAMB
- C. (2) MOLDED TILT LATCH AT EACH END OF LOCK RAIL
- D. (2) METAL PIVOT BAR AT EACH END OF BOTTOM RAIL
- E. EXTRUDED ALUMINUM REINFORCEMENT (10300278) AT FIXED MEETING RAIL
- F. EXTRUDED ALUMINUM REINFORCEMENT (10300277) AT LOCK RAIL
- G. EXTRUDED ALUMINUM REINFORCEMENT (10300276) AT STILES

VISTAMARK ENTERPRISES, LLC 3637 n highway 77, suite c waxahachie, tx 75165

SERIES ENDURA 110 PVC SINGLE HUNG REINFORCED NON-IMPACT 48" X 75" EQUAL LEG ELEVATION

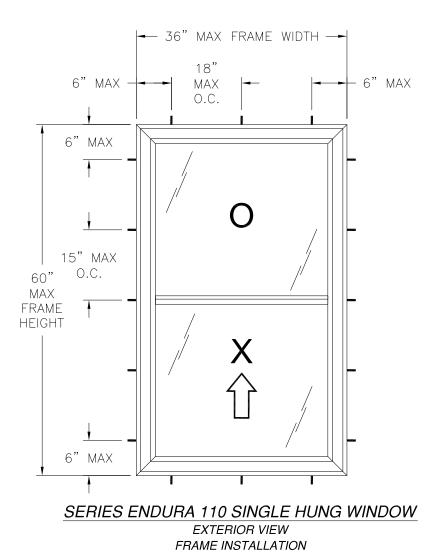
DRAWN: DWG NO. REV R.L. 08-02763 A SCALE NTS DATE 07/31/15 SHEET 2 OF 10

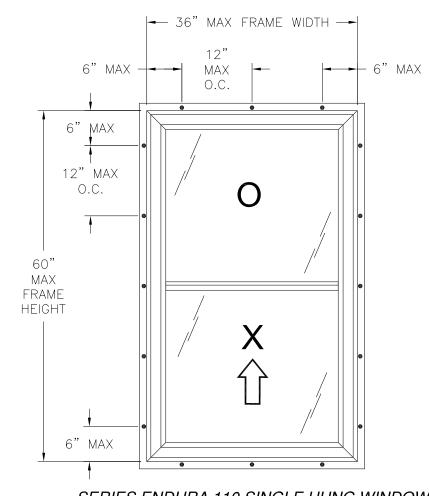
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E. TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
Α	REVISED PER TDI COMMENTS	07/16/19	R.L.





SERIES ENDURA 110 SINGLE HUNG WINDOW

EXTERIOR VIEW

FIN INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING	
+50.0/-75.0PSF	NONE	

NOTES:

- 1. MAXIMUM SASH SIZE: 33 1/4" X 29 3/8"
- 2. MAXIMUM D.L.O.: 30 1/2" X 26"

HARDWARE SCHEDULE
(2) COMPOSITE LOCK AT 8 1/2" FROM EACH END OF LOCK RAIL

- B. (2) CONSTANT FORCE BALANCE SYSTEM WITH LOCKING TILT SHOE ONE PER JAMB
- C. (2) MOLDED TILT LATCH AT EACH END OF LOCK RAIL
- D. (2) METAL PIVOT BAR AT EACH END OF BOTTOM RAIL
- E. EXTRUDED ALUMINUM REINFORCEMENT (10300278) AT FIXED MEETING RAIL
- F. EXTRUDED ALUMINUM REINFORCEMENT (10300277) AT LOCK RAIL
- G. EXTRUDED ALUMINUM REINFORCEMENT (10300276) AT STILES

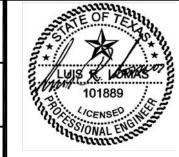
VISTAMARK ENTERPRISES, LLC 3637 n highway 77, suite c waxahachie, tx 75165

SERIES ENDURA 110 PVC SINGLE HUNG REINFORCED NON-IMPACT 36" X 60" EQUAL LEG ELEVATION

DRAWN: DWG NO. REV
R.L. 08-02763 A

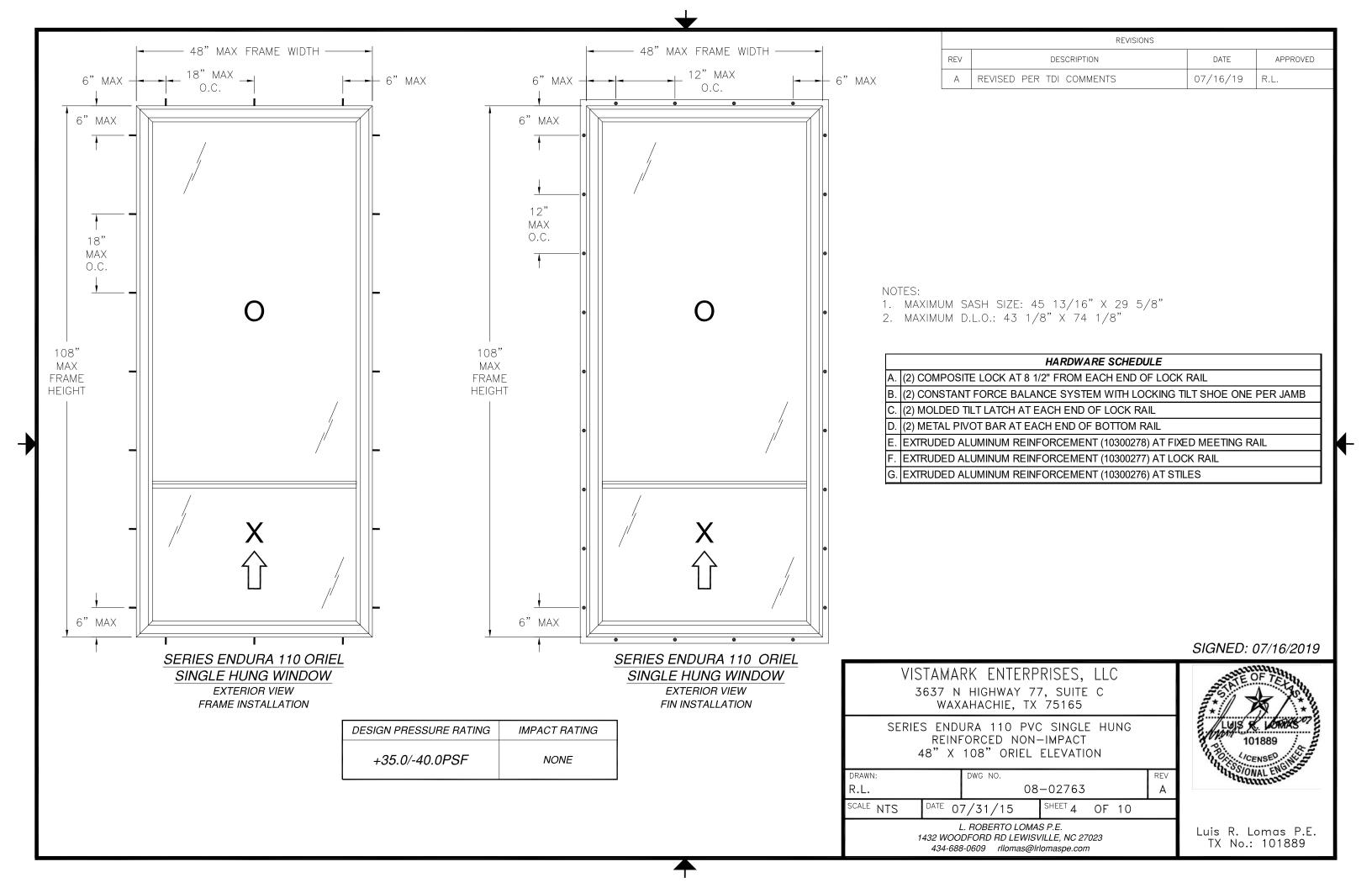
SCALE NTS DATE 07/31/15 SHEET 3 OF 10

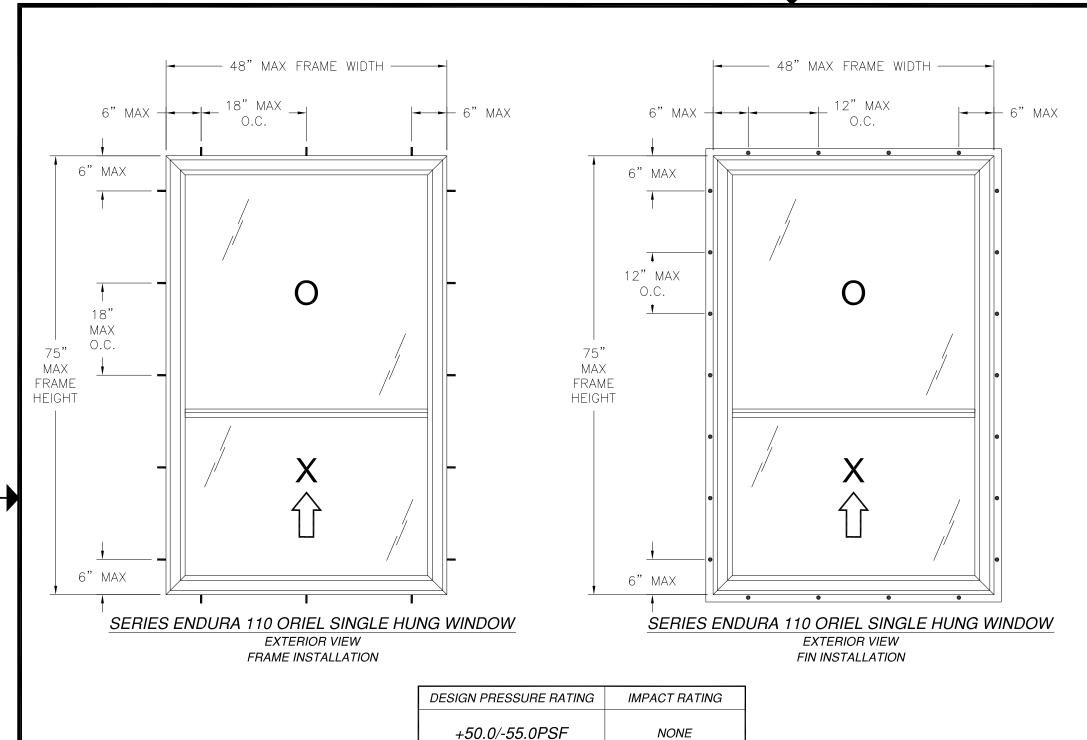
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com



SIGNED: 07/16/2019

Luis R. Lomas P.E. TX No.: 101889





REVISIONS

REV DESCRIPTION DATE APPROVED

A REVISED PER TDI COMMENTS 07/16/19 R.L.

SIGNED: 07/16/2019

NOTES:

1. MAXIMUM SASH SIZE: 45 3/4" X 29 3/4"

EXTRUDED ALUMINUM REINFORCEMENT (10300276) AT STILES

2. MAXIMUM D.L.O.: 43" X 41 1/4"

	HARDWARE SCHEDULE			
Α.	(2) COMPOSITE LOCK AT 8 1/2" FROM EACH END OF LOCK RAIL			
В.	(2) CONSTANT FORCE BALANCE SYSTEM WITH LOCKING TILT SHOE ONE PER JAMB			
Ċ.	(2) MOLDED TILT LATCH AT EACH END OF LOCK RAIL			
D.	(2) METAL PIVOT BAR AT EACH END OF BOTTOM RAIL			
E.	EXTRUDED ALUMINUM REINFORCEMENT (10300278) AT FIXED MEETING RAIL			
F.	EXTRUDED ALUMINUM REINFORCEMENT (10300277) AT LOCK RAIL			

VISTAMARK ENTERPRISES, LLC 3637 n highway 77, suite c waxahachie, tx 75165

SERIES ENDURA 110 PVC SINGLE HUNG REINFORCED NON-IMPACT 48" X 75" ORIEL ELEVATION

DRAWN: DWG NO. REV
R.L. 08-02763 A

SCALE NTS DATE 07/31/15 SHEET 5 OF 10

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

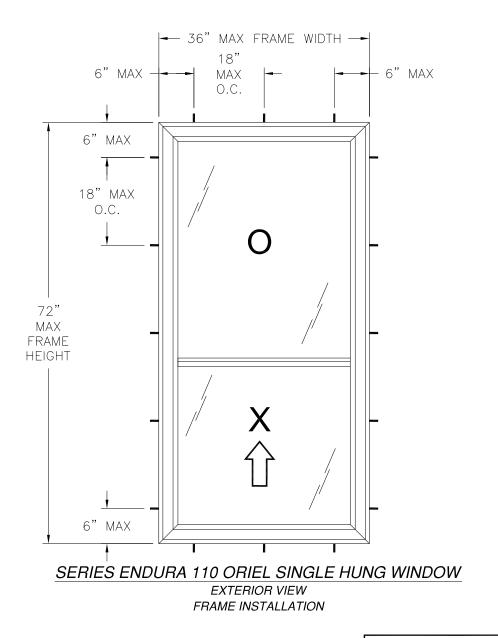


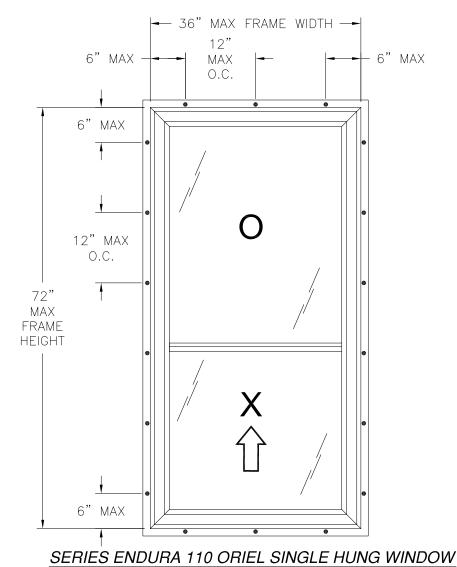
Luis R. Lomas P.E. TX No.: 101889

REVISIONS

REV DESCRIPTION DATE APPROVED

A REVISED PER TDI COMMENTS 07/16/19 R.L.





EXTERIOR VIEW FIN INSTALLATION

+50.0/-65.0PSF NONE

NOTES:

- 1. MAXIMUM SASH SIZE: 33 3/4" X 29 5/8"
- 2. MAXIMUM D.L.O.: 30 1/2" X 26 3/8"

	HARDWARE SCHEDULE			
A.	(2) COMPOSITE LOCK AT 8 1/2" FROM EACH END OF LOCK RAIL			
В.	(2) CONSTANT FORCE BALANCE SYSTEM WITH LOCKING TILT SHOE ONE PER JAMB			
C.	(2) MOLDED TILT LATCH AT EACH END OF LOCK RAIL			
D.	(2) METAL PIVOT BAR AT EACH END OF BOTTOM RAIL			
E.	EXTRUDED ALUMINUM REINFORCEMENT (10300278) AT FIXED MEETING RAIL			
F.	EXTRUDED ALUMINUM REINFORCEMENT (10300277) AT LOCK RAIL			
G.	EXTRUDED ALUMINUM REINFORCEMENT (10300276) AT STILES			

VISTAMARK ENTERPRISES, LLC 3637 N HIGHWAY 77, SUITE C WAXAHACHIE, TX 75165

SERIES ENDURA 110 PVC SINGLE HUNG REINFORCED NON-IMPACT 36" X 72" ORIEL ELEVATION

DRAWN: DWG NO. REV
R.L. 08-02763 A

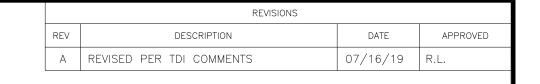
SCALE NTS DATE 07/31/15 SHEET 6 OF 10

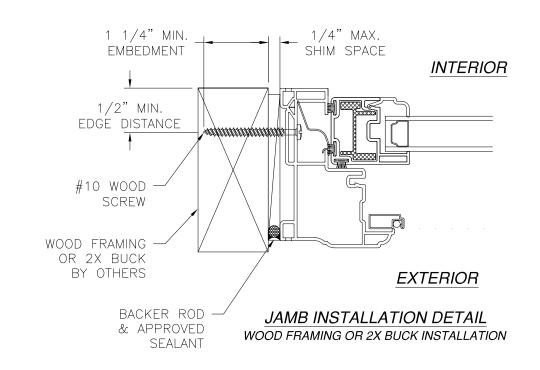
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com



SIGNED: 07/16/2019

Luis R. Lomas P.E. TX No.: 101889



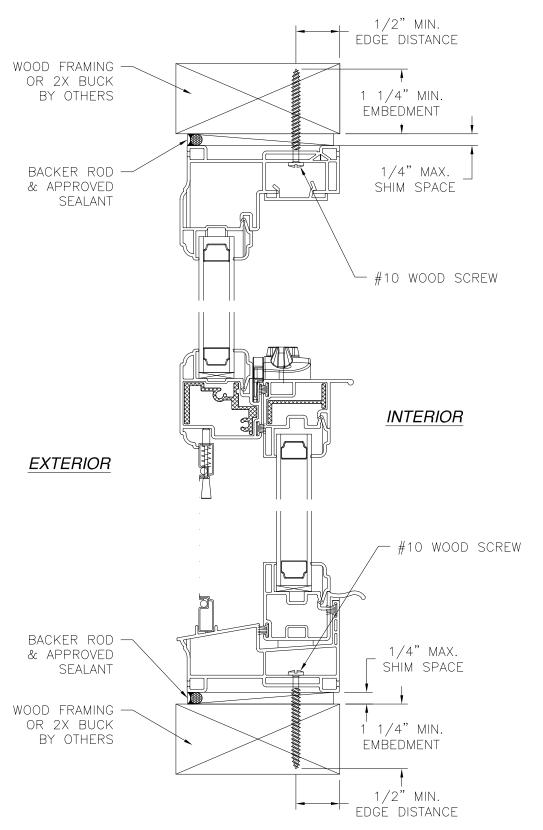


NOTES:

- 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

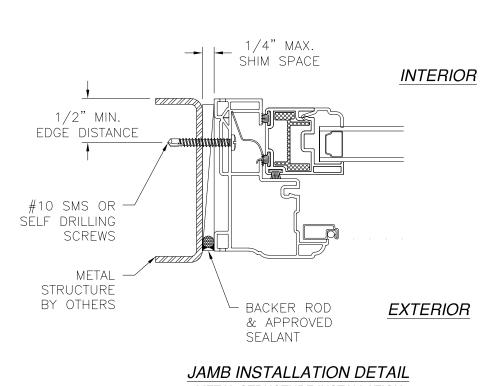
SIGNED: 07/16/2019

			010112B: 07/10/2015	
3637 N	VISTAMARK ENTERPRISES, LLC 3637 n highway 77, suite c waxahachie, tx 75165			
SERIES END REIN INS	101889 101889			
DRAWN:	DWG NO.	REV	TINONAL ENCO	
R.L.	08-02763	А	· · · · · · · · · · · · · · · · · · ·	
SCALE NTS DATE 0	7/31/15 SHEET 7 (OF 10]	
1432 WOC 434-68	Luis R. Lomas P.E. TX No.: 101889			



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



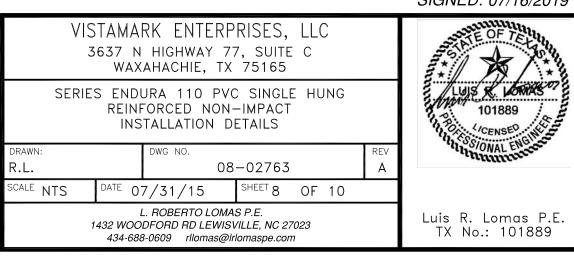


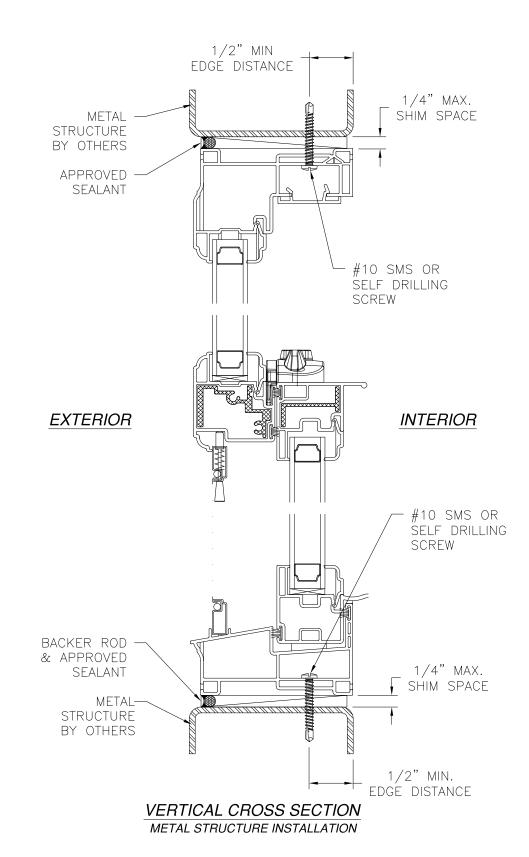
METAL STRUCTURE INSTALLATION

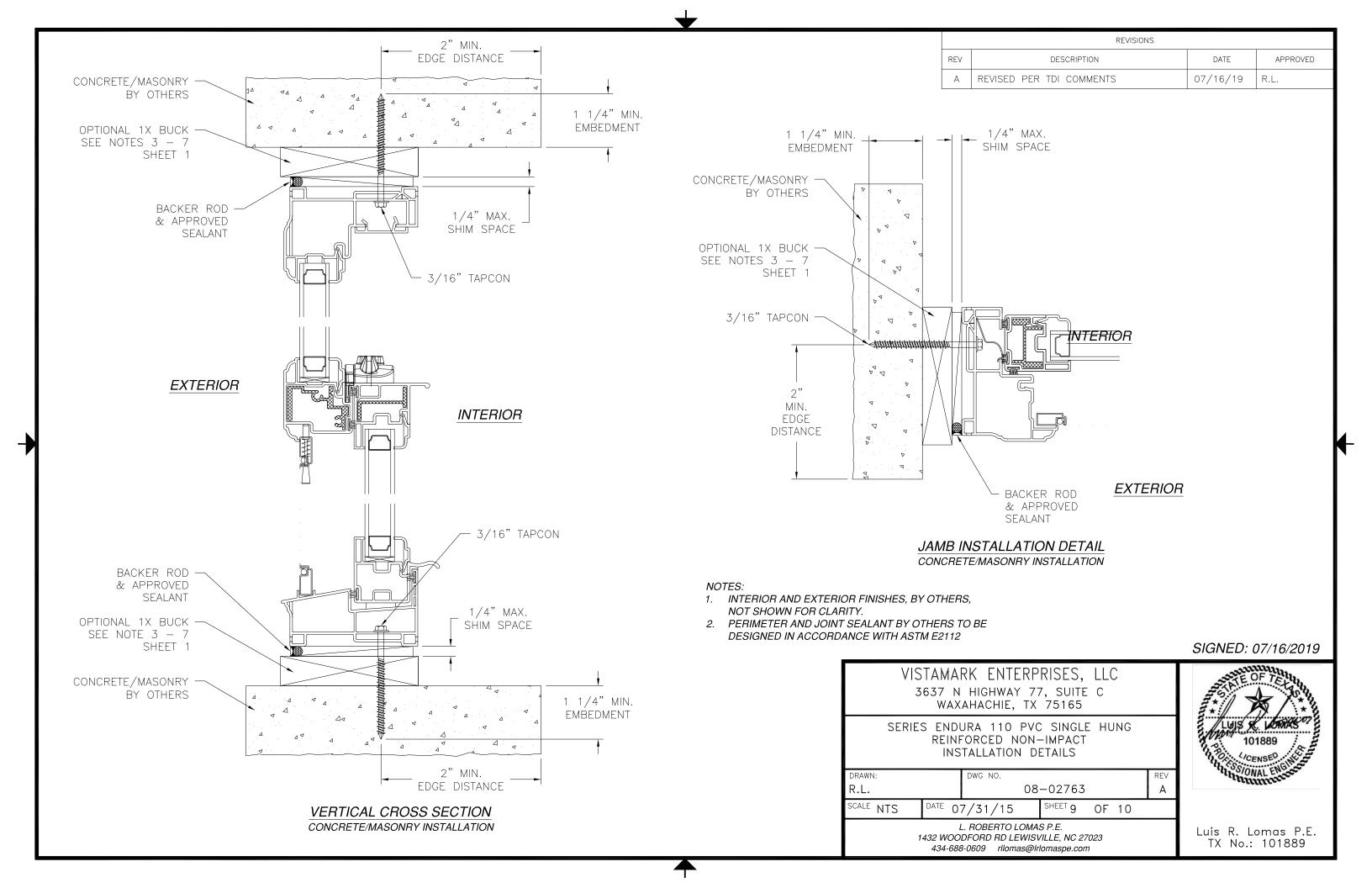
NOTES:

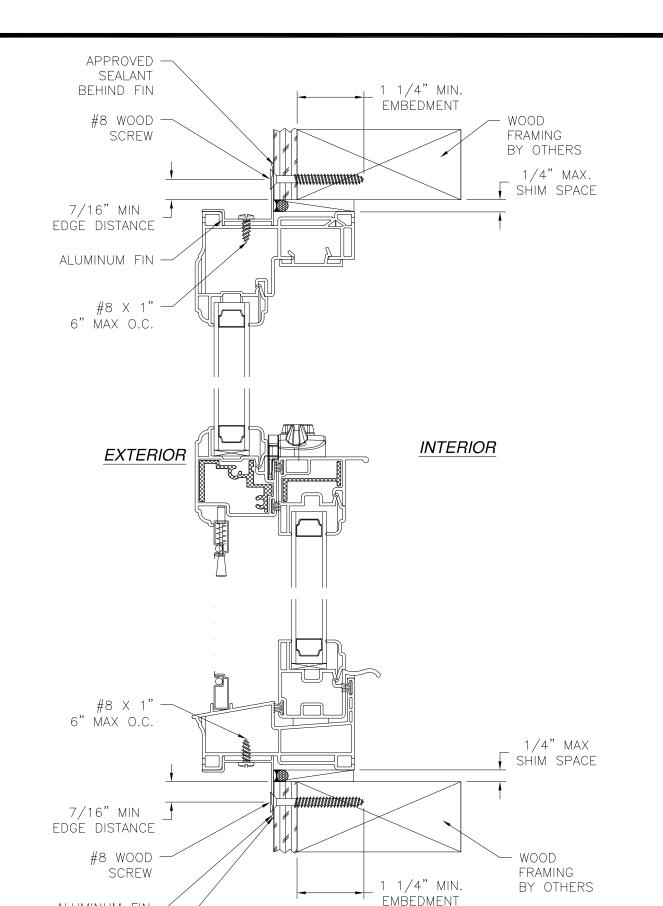
- 1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
- 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 07/16/2019









VERTICAL CROSS SECTION

WOOD FRAMING OR 2X BUCK INSTALLATION

ALUMINUM FIN -

APPROVED

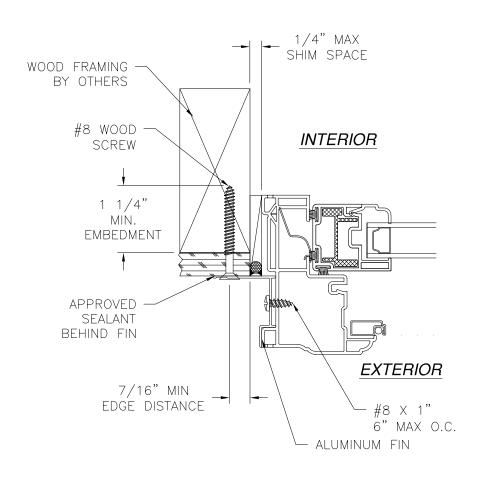
BEHIND FIN

SEALANT

REVISIONS

REV DESCRIPTION DATE APPROVED

A REVISED PER TDI COMMENTS 07/16/19 R.L.



JAMB INSTALLATION DETAIL 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

SIGNED: 07/16/2019

