

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
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. SHIM AS NEEDED 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.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 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 THROUGH FIN INTO METAL STRUCTURE USE #6 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.
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:

19.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

19.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.

19.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).

19.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 1/8” THICK MINIMUM

SIGNED: 08/04/2026

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	ELEVATIONS
4 – 7	INSTALLATION DETAILS
8	COMPONENTS

MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA 30511

400 VINYL SINGLE HUNG WINDOW
NON-IMPACT 40”X66” AND 48”X84”
NOTES

DRAWN:
N.G.

DWG NO.
08-02685B

REV
B

SCALE NTS

DATE 04/15/15

SHEET 1 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS

LICENSE

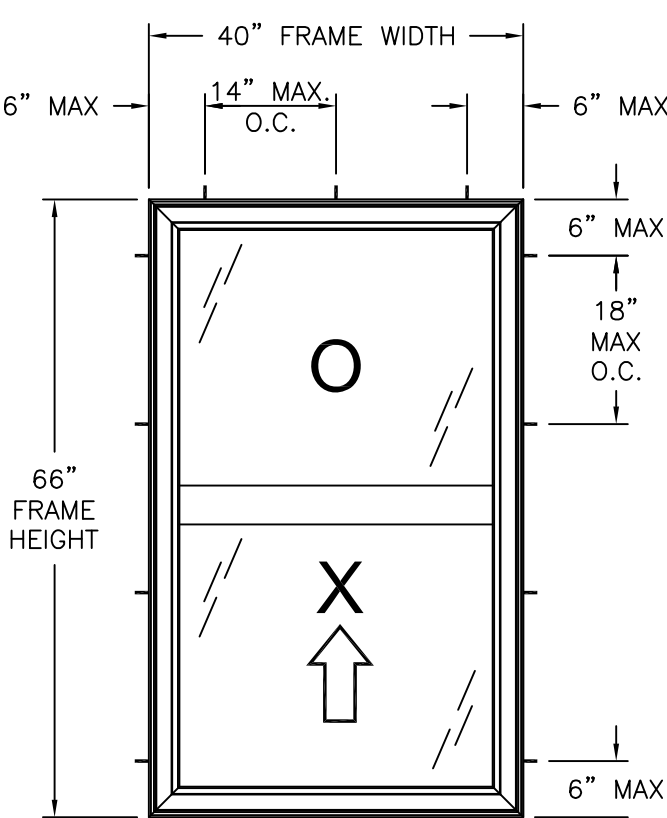
No. 62514

STATE OF FLORIDA

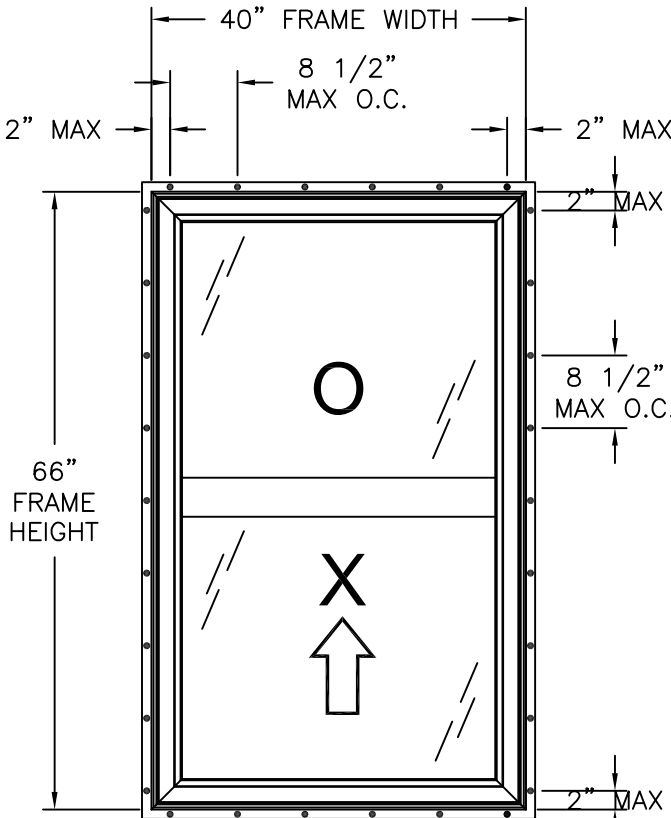
PROFESSIONAL ENGINEER

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.



400 VINYL SINGLE HUNG WINDOW
EXTERIOR VIEW
FRAME INSTALLATION



400 VINYL SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

FOR OTHER SIZES SEE CHART #1, SHEET 2

- NOTES:
- SASH SIZE: 37 1/4" X 31 7/8"
 - D.L.O.: 35 3/8" X 29 3/8"

Chart #1
Rating (psf)

Frame Height (in)	Frame width (in)											
	24.0		30.0		36.0		40.0		42.0		48.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	50.0	75.0	50.0	75.0	50.0	73.2	50.0	70.5	50.0	69.2	50.0	65.1
30.0	50.0	75.0	50.0	74.4	50.0	69.4	50.0	66.1	50.0	64.4	50.0	59.4
36.0	50.0	75.0	50.0	72.2	50.0	66.2	50.0	62.1	50.0	60.1	50.0	54.1
42.0	50.0	75.0	50.0	70.4	50.0	63.4	50.0	58.7	50.0	56.4	49.3	49.3
48.0	50.0	75.0	50.0	69.2	50.0	61.1	50.0	55.8	50.0	53.1	45.1	45.1
54.0	50.0	75.0	50.0	68.4	50.0	59.4	50.0	53.3	50.0	50.3	41.3	41.3
60.0	50.0	75.0	50.0	68.2	50.0	58.1	50.0	51.4	48.1	48.1	38.0	38.0
63.0	50.0	75.0	50.0	68.2	50.0	57.7	50.0	50.6	47.1	47.1	36.6	36.6
66.0	50.0	75.0	50.0	66.7	50.0	55.6	50.0	50.0	46.3	46.3	35.3	35.3
72.0	50.0	75.0	50.0	61.1	50.0	50.9	45.8	45.8	43.7	43.7	33.0	33.0
75.0	50.0	73.3	50.0	58.7	48.9	48.9	44.0	44.0	41.9	41.9	32.1	32.1
78.0	50.0	70.5	50.0	56.4	47.0	47.0	42.3	42.3	40.3	40.3	31.3	31.3
84.0	50.0	65.5	50.0	52.4	43.7	43.7	39.3	39.3	37.4	37.4	30.0	30.0
90.0	50.0	61.1	48.9	48.9	40.7	40.7	36.7	36.7	34.9	34.9	-	-
96.0	50.0	57.3	45.8	45.8	38.2	38.2	34.4	34.4	32.7	32.7	-	-

HARDWARE SCHEDULE	
A.	(2) CAM LOCK WITH KEEPER 8 1/4" FROM EACH END INTERIOR MEETING RAIL
B.	(2) BLOCK AND TACKLE BALANCE SYSTEM WITH SHOE ONE PER JAMB
C.	(2) TOP MOUNT TILT LATCH AT INTERIOR MEETING RAIL
D.	(2) PIVOT BAR ON EACH SIDE OF MEETING RAIL
E.	EXTRUDED ALUMINUM REINFORCEMENT (T-11820) AT INTERIOR MEETING RAIL
F.	FORMED STEEL REINFORCEMENT (ST1789A) AT SASH STILES
G.	FORMED STEEL REINFORCEMENT (ST1791A) AT EXTERIOR MEETING RAIL
H.	EXTRUDED ALUMINUM REINFORCEMENT (T-11974) AT EXTERIOR MEETING RAIL

MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA 30511

400 VINYL SINGLE HUNG WINDOW
NON-IMPACT 40"X66" AND 48"X84"
ELEVATIONS

DRAWN:
N.G.

DWG NO.
08-02685B

REV
B

SCALE
NTS

DATE
04/15/15

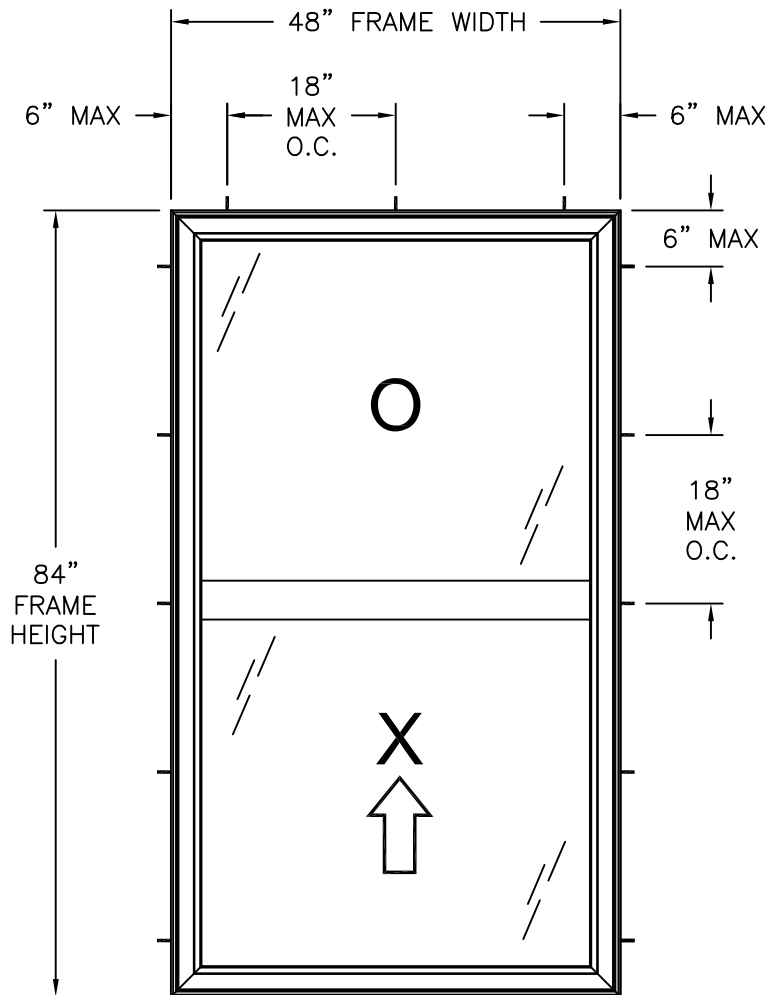
SHEET
2 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

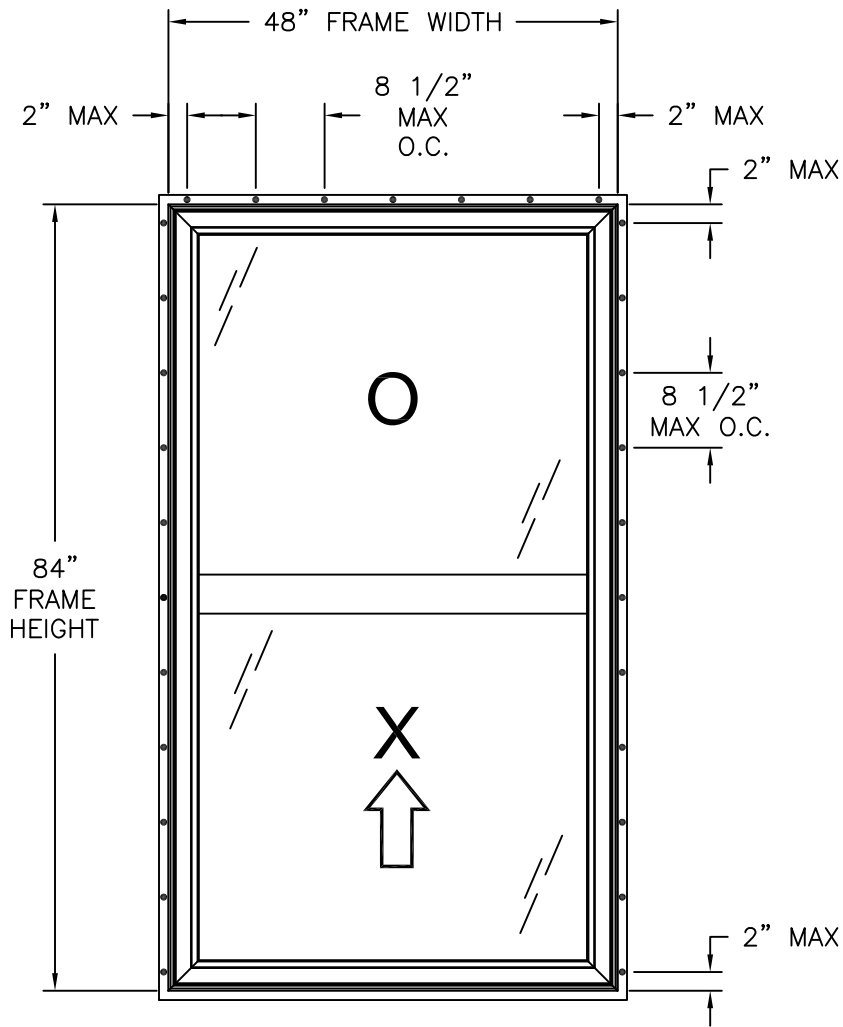
SIGNED: 08/04/2026

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.



400 VINYL SINGLE HUNG WINDOW
EXTERIOR VIEW
FRAME INSTALLATION



400 VINYL SINGLE HUNG WINDOW
EXTERIOR VIEW
FIN INSTALLATION

- NOTES:
- SASH SIZE: 45 3/16" X 35"
 - D.L.O.: 43 3/8" X 38 7/16"

DESIGN PRESSURE RATING	IMPACT RATING
±30.0PSF	NONE

FOR OTHER SIZES SEE CHART #1, SHEET 2

HARDWARE SCHEDULE

A.	(2) CAM LOCK WITH KEEPER 8 1/4" FROM EACH END INTERIOR MEETING RAIL
B.	(2) BLOCK AND TACKLE BALANCE SYSTEM WITH SHOE ONE PER JAMB
C.	(2) TOP MOUNT TILT LATCH AT INTERIOR MEETING RAIL
D.	(2) PIVOT BAR ON EACH SIDE OF MEETING RAIL
E.	EXTRUDED ALUMINUM REINFORCEMENT (T-11820) AT INTERIOR MEETING RAIL
F.	FORMED STEEL REINFORCEMENT (ST1789A) AT SASH STILES
G.	FORMED STEEL REINFORCEMENT (ST1791A) AT EXTERIOR MEETING RAIL
H.	EXTRUDED ALUMINUM REINFORCEMENT (T-11974) AT EXTERIOR MEETING RAIL

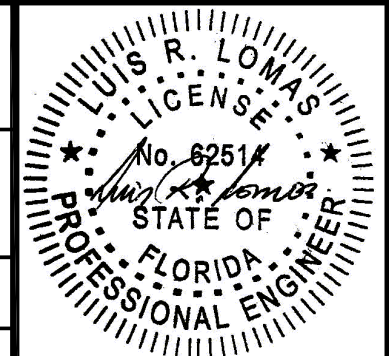
MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA 30511

400 VINYL SINGLE HUNG WINDOW
NON-IMPACT 40"X66" AND 48"X84"
ELEVATIONS

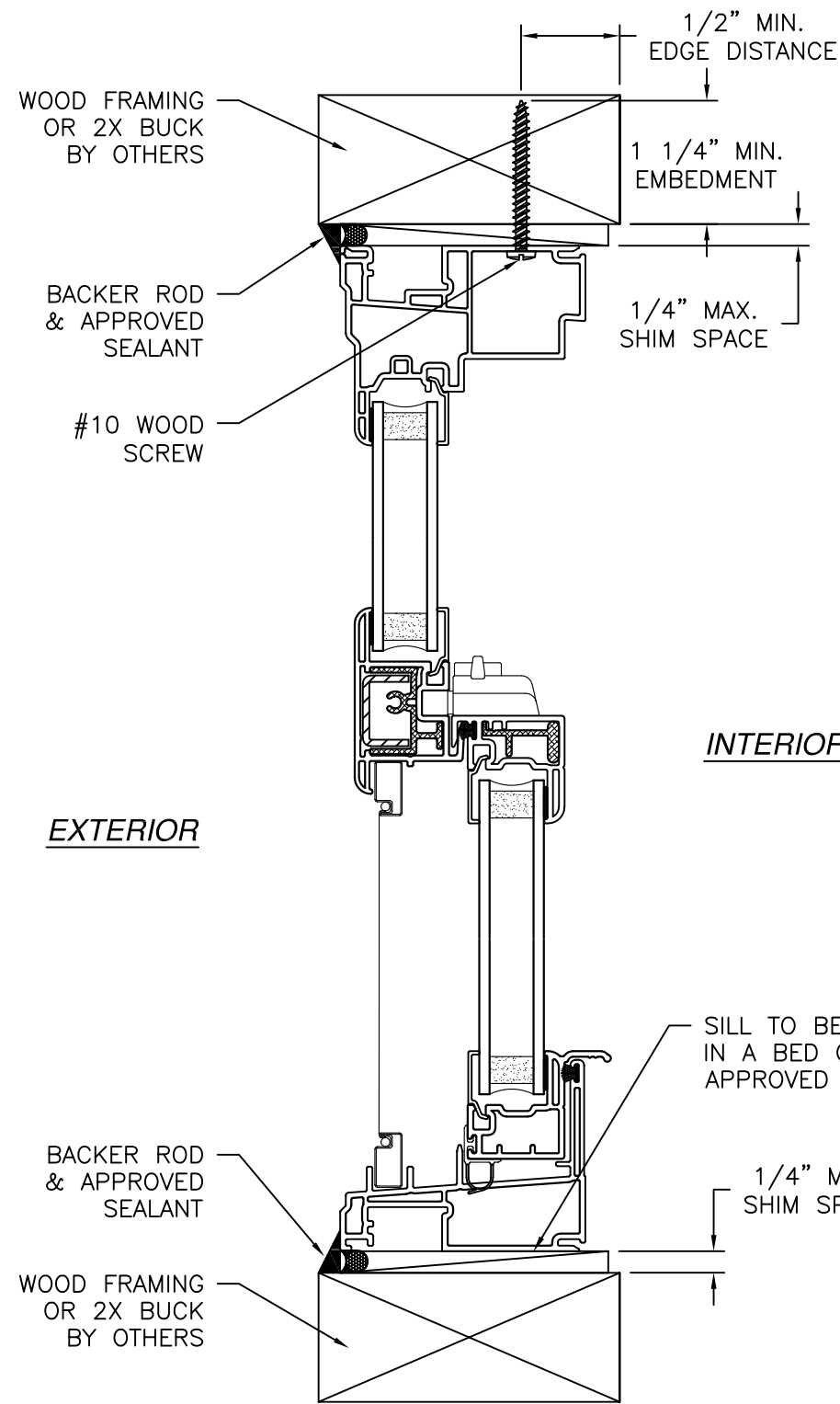
DRAWN: N.G.	DWG NO. 08-02685B	REV B
SCALE NTS	DATE 04/15/15	SHEET 3 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

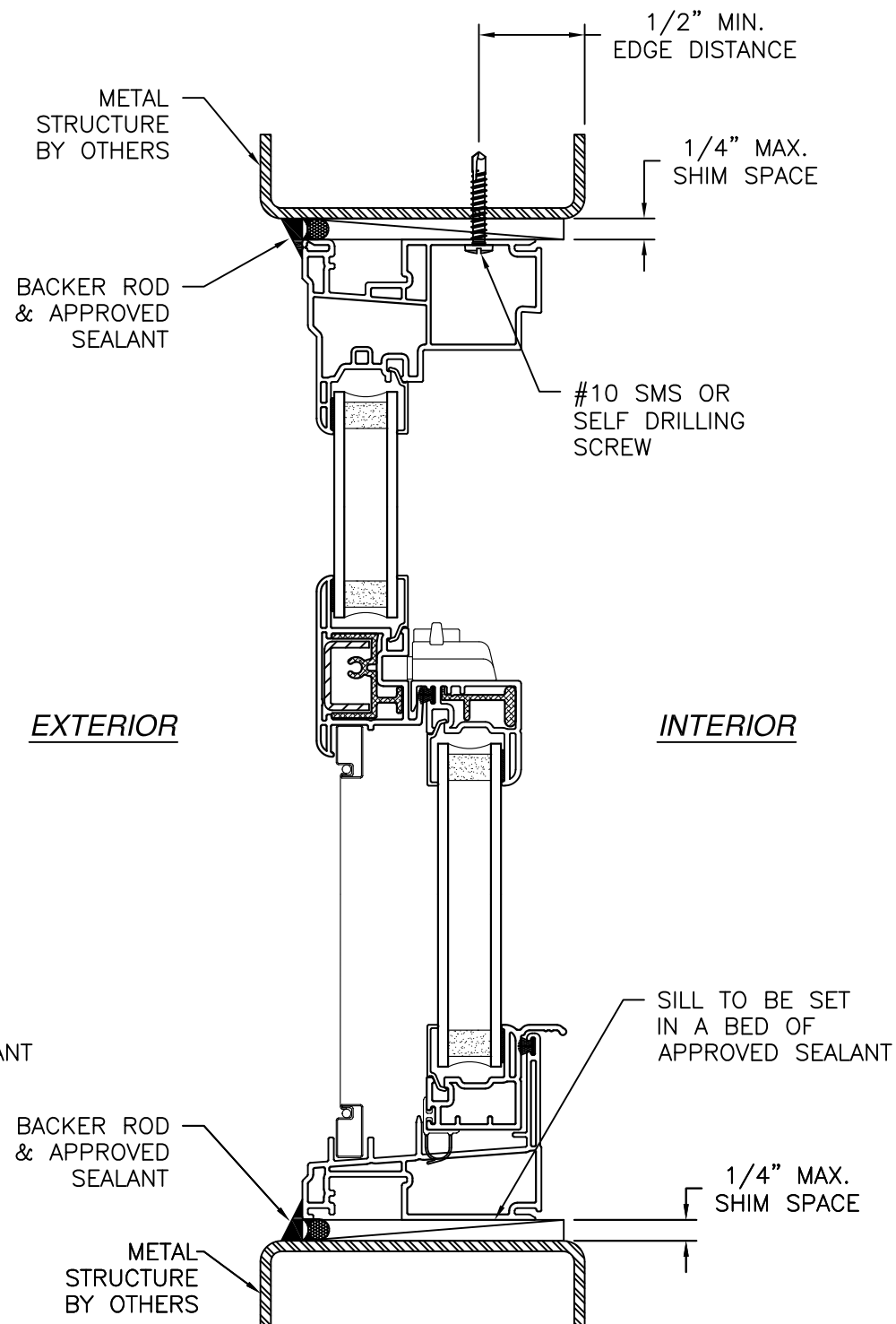
SIGNED: 08/04/2026



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

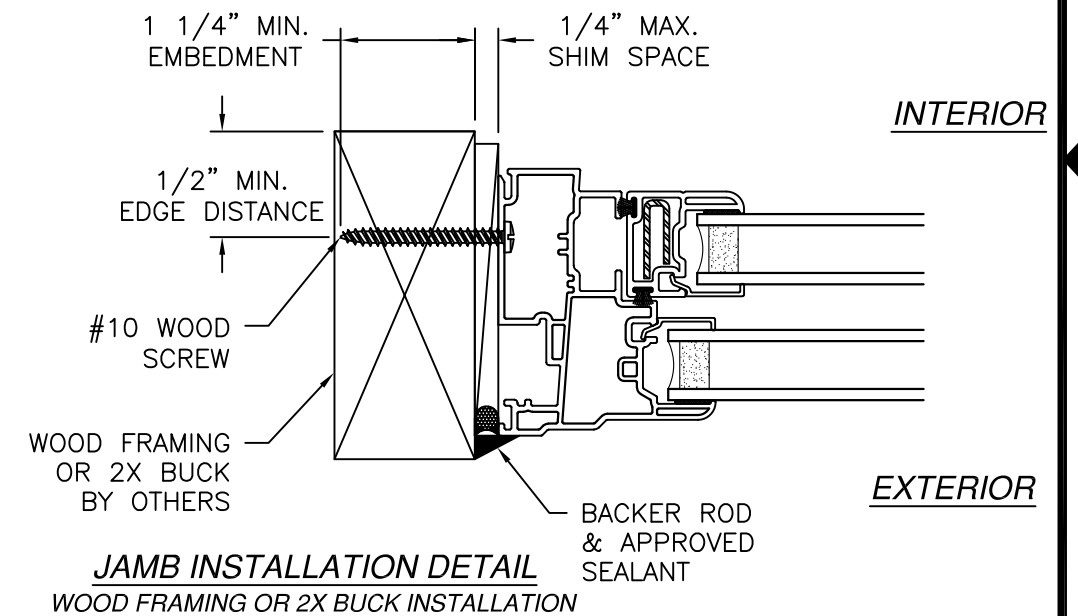
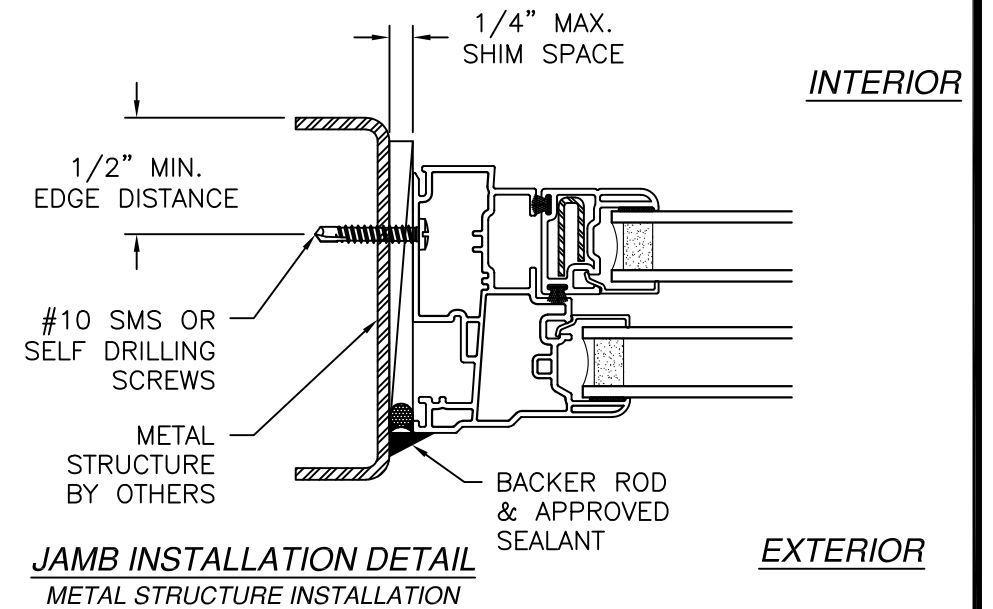


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.



SIGNED: 08/04/2026

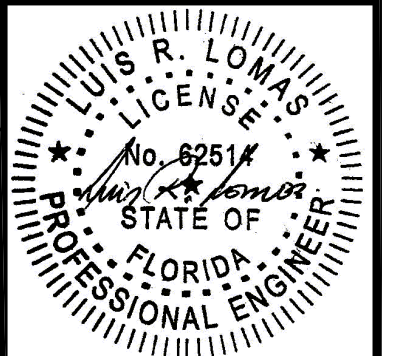
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112
 3. SILL ANCHORS MUST BE COMPLETELY SEALED WITH APPROVED SEALANT TO PREVENT WATER INTAKE.

MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA 30511

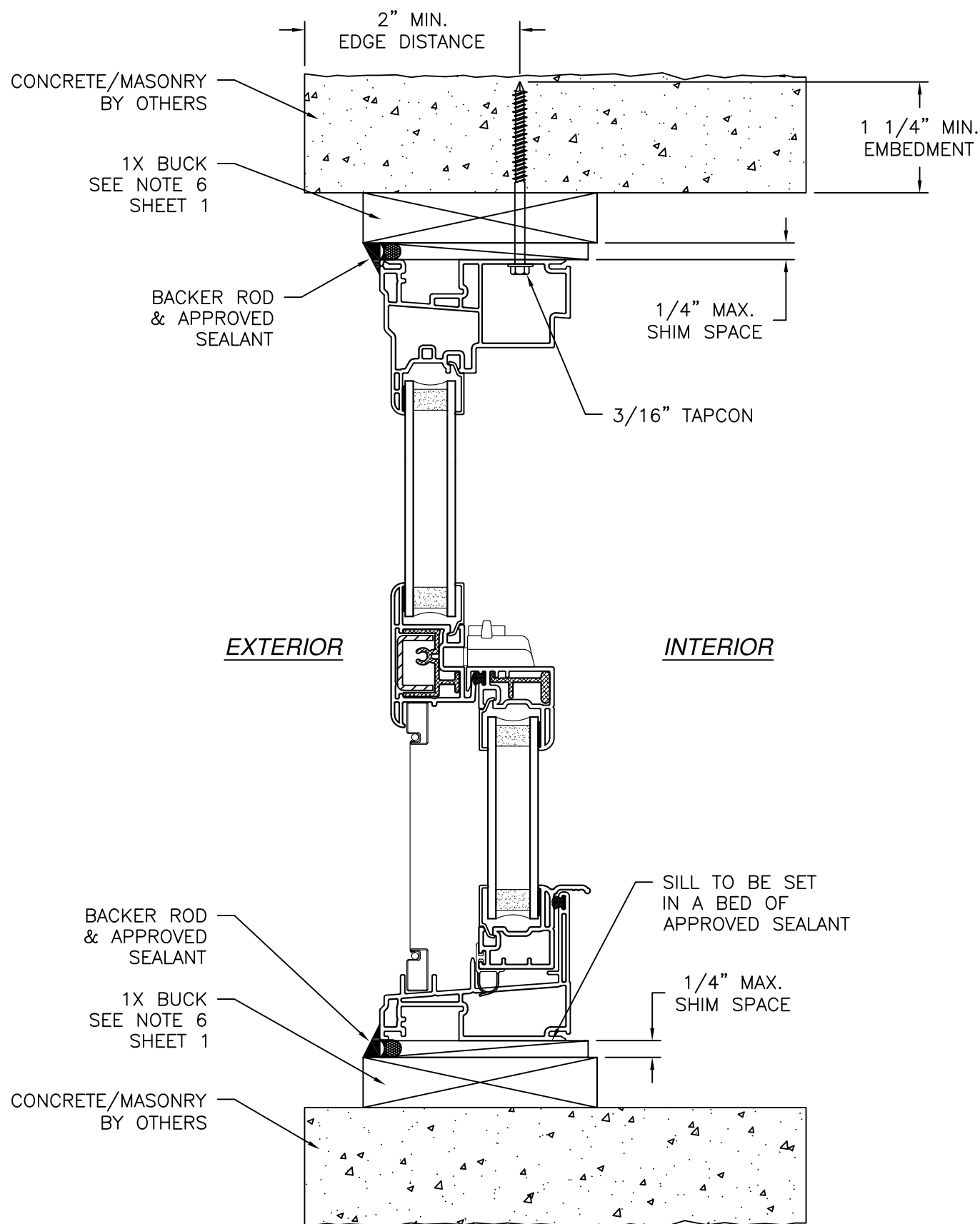
400 VINYL SINGLE HUNG WINDOW
NON-IMPACT 40"X66" AND 48"X84"
INSTALLATION DETAILS

DRAWN: N.G.	DWG NO. 08-02685B	REV B
SCALE NTS	DATE 04/15/15	SHEET 4 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

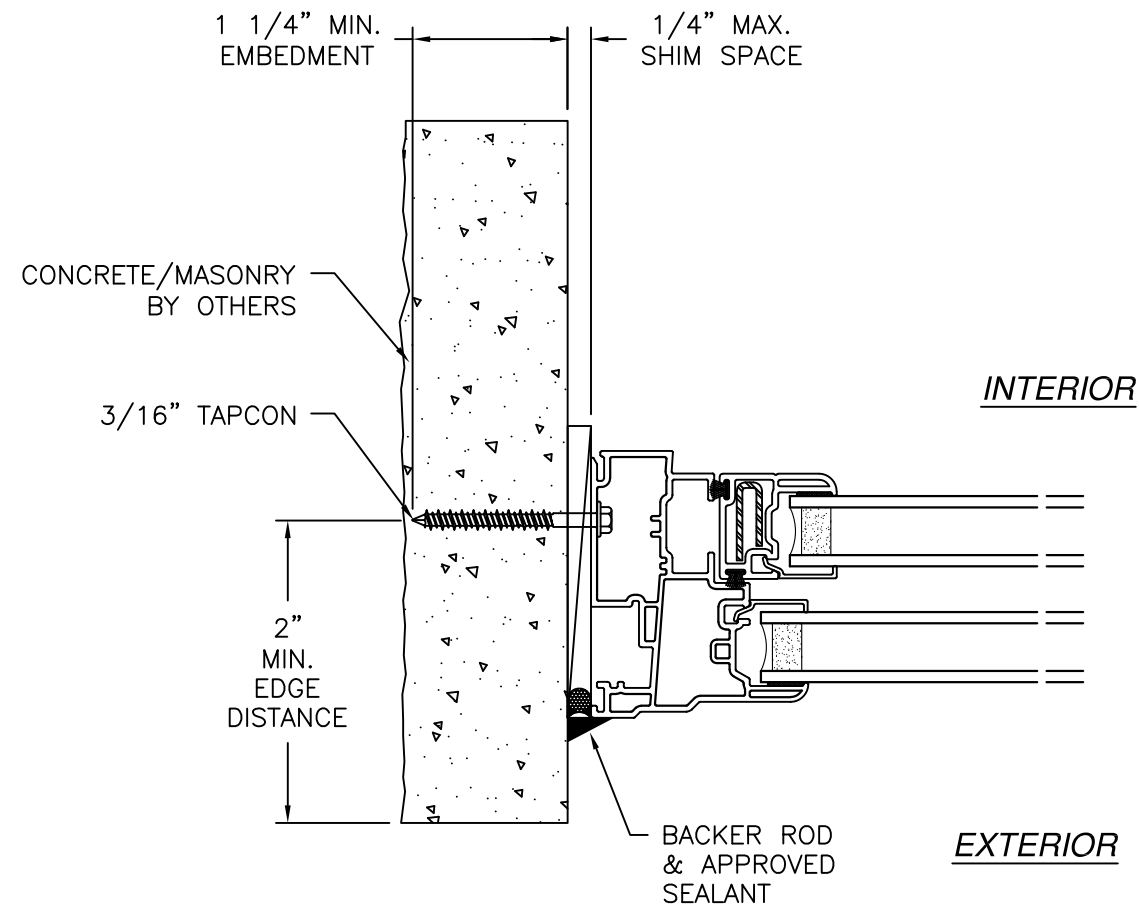


Luis R. Lomas P.E.
FL No.: 62514



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.



JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY 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.
 3. SILL ANCHORS MUST BE COMPLETELY SEALED WITH APPROVED SEALANT TO PREVENT WATER INTAKE.

SIGNED: 08/04/2026

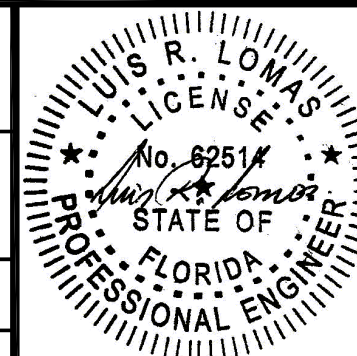
MAGNOLIA WINDOW & DOOR

1000 PYRATICH DR.
 BALDWIN, GA 30511

400 VINYL SINGLE HUNG WINDOW
 NON-IMPACT 40"X66" AND 48"X84"
 INSTALLATION DETAILS

DRAWN: N.G.	DWG NO. 08-02685B	REV B
SCALE NTS	DATE 04/15/15	SHEET 5 OF 8

L. ROBERTO LOMAS P.E.
 208 7th Ave, INDIALANTIC, FL 32903
 434-688-0609 rllomas@lrlomaspe.com



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

APPROVED SEALANT BEHIND FIN

#6 WOOD SCREW

3/8" MIN EDGE DISTANCE

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

1/4" MAX. SHIM SPACE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.

EXTERIOR

INTERIOR

WOOD FRAMING BY OTHERS

#6 WOOD SCREW

1 1/4" MIN. EMBEDMENT

APPROVED SEALANT BEHIND FIN

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

INTERIOR

EXTERIOR

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 E211.
 3. SILL ANCHORS MUST BE COMPLETELY SEALED WITH APPROVED SEALANT TO PREVENT WATER INTAKE.

SIGNED: 08/04/2026

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

#6 WOOD SCREW

APPROVED SEALANT BEHIND FIN

1 1/4" MIN. EMBEDMENT

WOOD FRAMING BY OTHERS

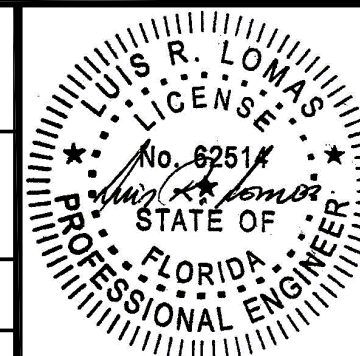
VERTICAL CROSS SECTION WOOD FRAMING OR 2X BUCK INSTALLATION

MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA 30511

400 VINYL SINGLE HUNG WINDOW
NON-IMPACT 40"X66" AND 48"X84"
INSTALLATION DETAILS

DRAWN: N.G.	DWG NO. 08-02685B	REV B
SCALE NTS	DATE 04/15/15	SHEET 6 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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

APPROVED SEALANT BEHIND FIN

#6 SMS OR SELF DRILLING SCREW

3/8" MIN EDGE DISTANCE

METAL STRUCTURE BY OTHERS

1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

METAL STRUCTURE BY OTHERS

1/4" MAX SHIM SPACE

INTERIOR

#6 SMS OR SELF DRILLING SCREW

APPROVED SEALANT BEHIND FIN

3/8" MIN EDGE DISTANCE

EXTERIOR

JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

3/8" MIN EDGE DISTANCE

1/4" MAX SHIM SPACE

#6 SMS OR SELF DRILLING SCREW

APPROVED SEALANT BEHIND FIN

METAL STRUCTURE BY OTHERS

VERTICAL CROSS SECTION
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

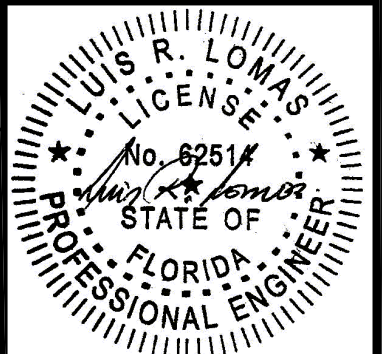
SIGNED: 08/04/2026

MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA 30511

400 VINYL SINGLE HUNG WINDOW
NON-IMPACT 40"X66" AND 48"X84"
INSTALLATION DETAILS

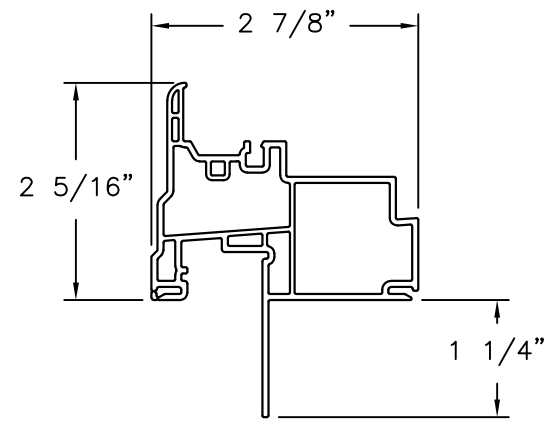
DRAWN: N.G.	DWG NO. 08-02685B	REV B
SCALE NTS	DATE 04/15/15	SHEET 7 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

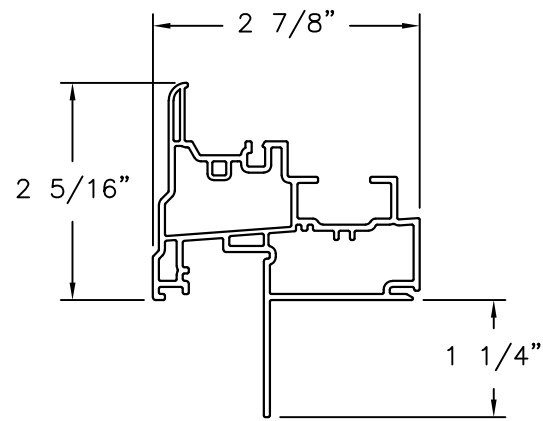


Luis R. Lomas P.E.
FL No.: 62514

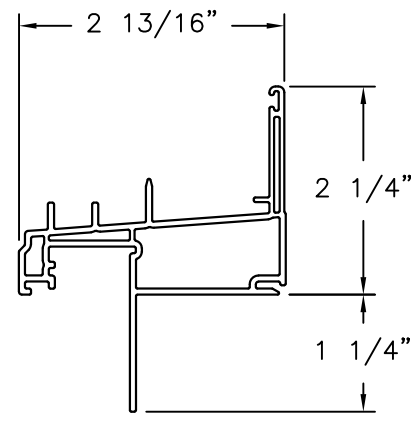
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.



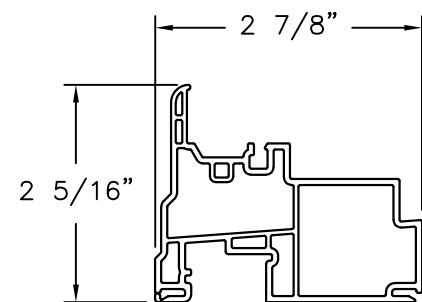
FIXED FRAME
PVC .065" THICK



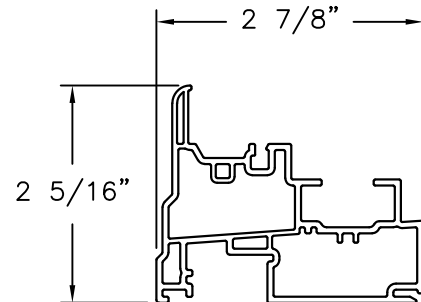
JAMB FRAME
PVC .065" THICK



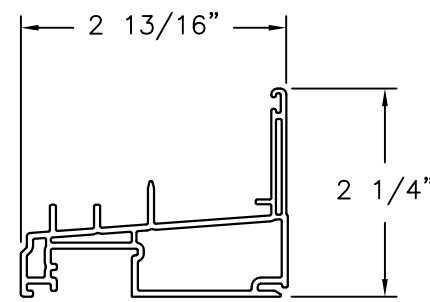
SILL FRAME
PVC .065" THICK



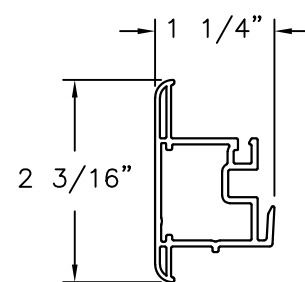
FIXED FRAME
PVC .065" THICK



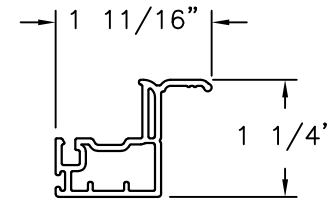
JAMB FRAME
PVC .065" THICK



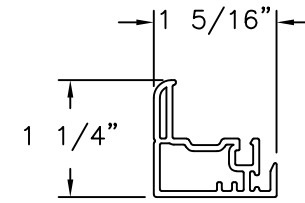
SILL FRAME
PVC .065" THICK



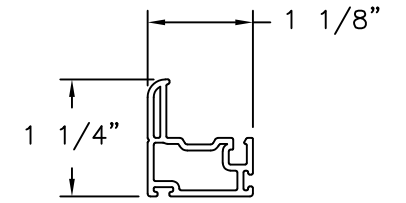
OX BAR
PVC .065" THICK



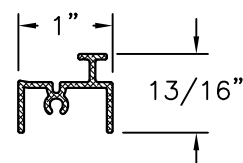
OX BAR
PVC .065" THICK



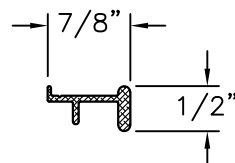
INTERIOR SASH
PVC .065" THICK



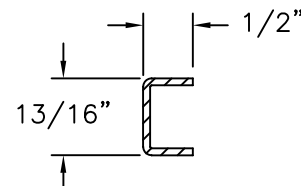
MAIN SASH
PVC .065" THICK



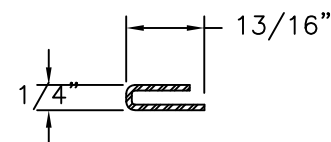
REINFORCEMENT T-11974
ALUMINUM 6063-T5 .060" THICK



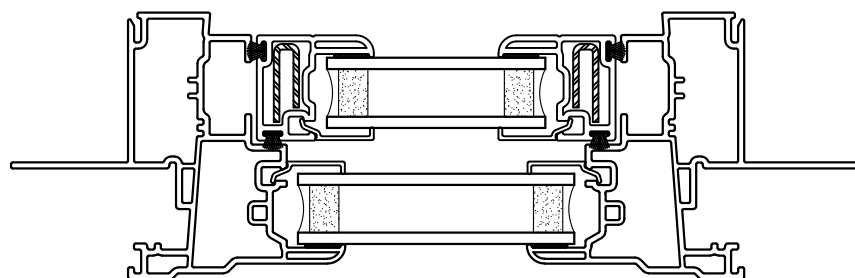
REINFORCEMENT T-11820
ALUMINUM 6063-T5 .060" THICK



REINFORCEMENT ST-1791A
GALVANIZED STEEL .075" THICK



REINFORCEMENT ST-1789A
GALVANIZED STEEL .060" THICK



HORIZONTAL CROSS SECTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED PER NEW TESTING	09/05/2025	R.L.

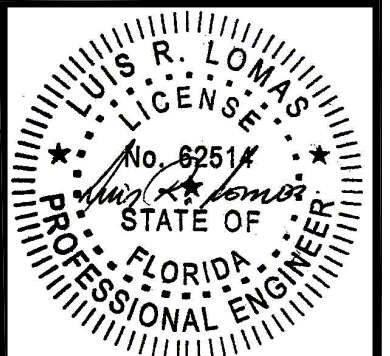
SIGNED: 08/04/2026

MAGNOLIA WINDOW & DOOR
1000 PYRATICH DR.
BALDWIN, GA 30511

400 VINYL SINGLE HUNG WINDOW
NON-IMPACT 40"X66" AND 48"X84"
COMPONENTS

DRAWN: N.G.	DWG NO. 08-02685B	REV B
SCALE NTS	DATE 04/15/15	SHEET 8 OF 8

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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