

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED MONOLITHIC GLASS	01/22/2020	R.L.

NOTES:

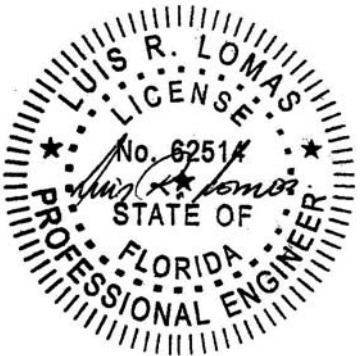
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” 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. 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 UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. 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: MAHOGANY.
12. UNITS MUST BE GLAZED PER ASTM E1300–04/09, SEE SHEET 14 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FRAME 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.

15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 3/4” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME 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.
14. FOR ANCHORING THROUGH HTP37Z STRAP OR ANGLE 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.
15. FOR ANCHORING THROUGH HTP37Z STRAP OR ANGLE INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 3/4” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH HTP37Z STRAP OR ANGLE 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.
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:
 - 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 Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI .125” THICK MINIMUM

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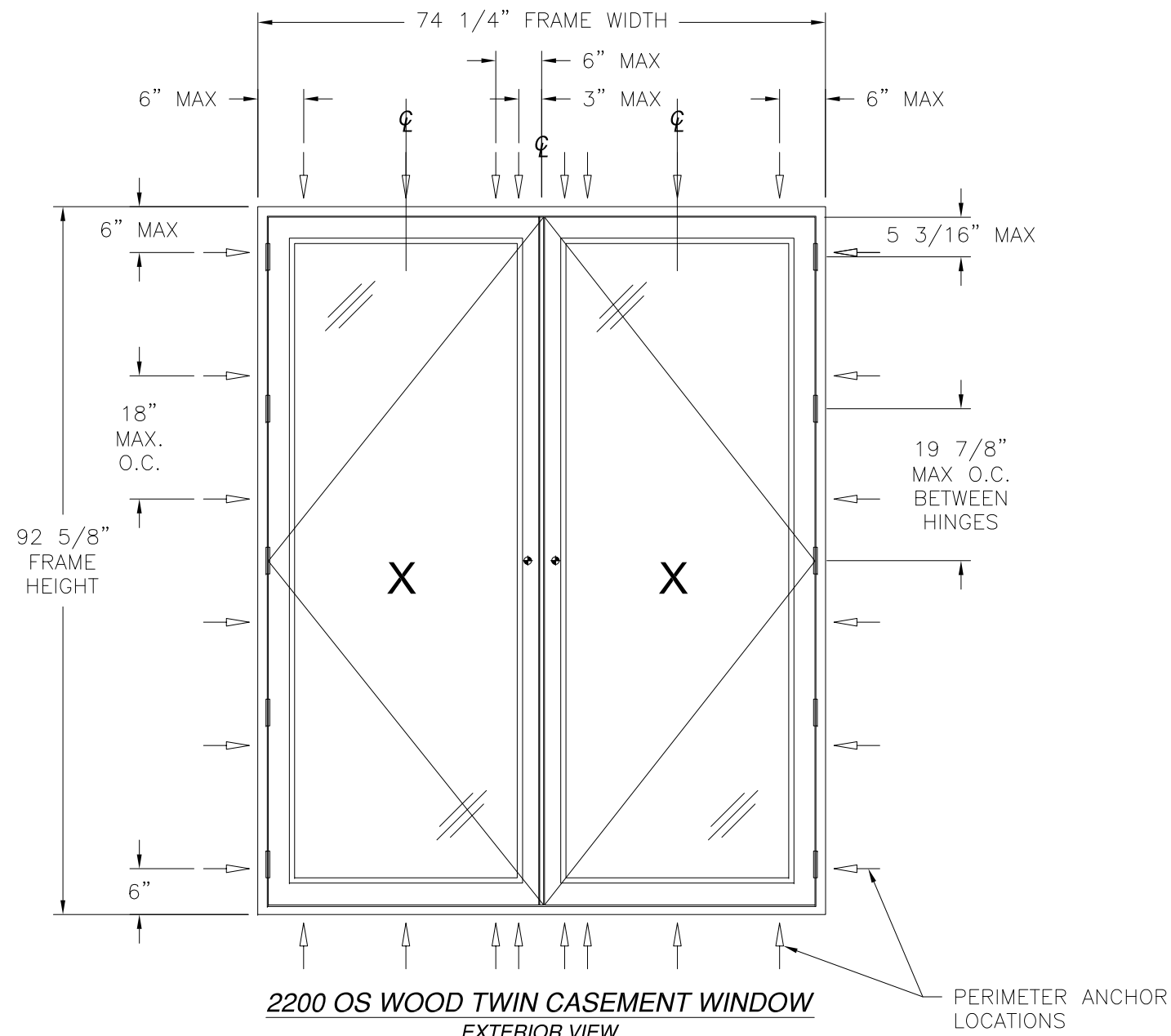
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SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
3 – 13	INSTALLATION DETAILS
14	COMPONENTS AND GLAZING DETAILS

REVIVAL SASH 78 DIAMOND ROAD SPRINGFIELD, NJ 07081		
2200 OUTSWING WOOD TWIN CASEMENT WINDOW IMPACT HVHZ NOTES		
DRAWN: R.L.	DWG NO. 08–03495	REV A
SCALE NTS	DATE 10/03/2019	SHEET 1 OF 14
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

REVISIONS			
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- NOTES:
1. MAXIMUM PANEL SIZE 36" X 90";
 2. MAXIMUM D.L.O.: 30 1/2" X 84 3/8"
 3. HANDLE AT 44" FROM BOTTOM RAIL ON LOCKING STILE WITH 12 LOCK POINTS LOCATED AS FOLLOWS:
 - TOP RAIL: 3" AND 18" FROM LOCK STILE
 - BOTTOM RAIL: 3" AND 18" FROM LOCK STILE
 - LOCK STILE: 3" X 10 1/2", 26 1/4", 34", 56", 64", 80" AND 87" FROM BOTTOM RAIL.
 4. HANDLE AT 44" FROM BOTTOM RAIL ON LOCKING STILE WITH 4 LOCK POINTS LOCATED AS FOLLOWS:
 - TOP RAIL: 3" AND 18" FROM ASTRAGAL.
 - BOTTOM RAIL: 3" AND 18 1/2" FROM ASTRAGAL.
 5. HANDLE MAY BE INSTALLED AT 15" MINIMUM FROM BOTTOM RAIL.

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

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
74 1/4" X 92 5/8" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 22.5 FT²

HARDWARE SCHEDULE

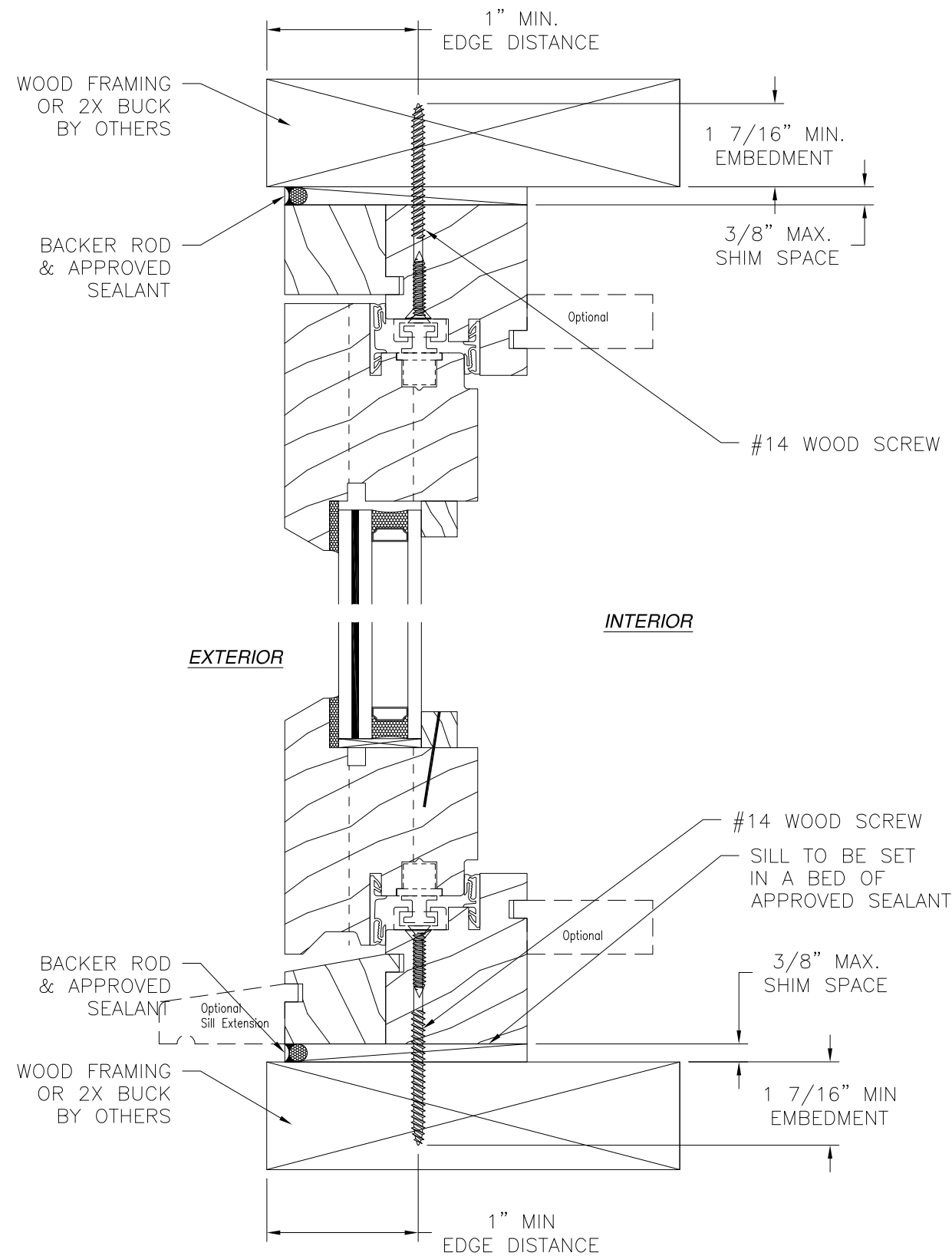
A.	(1) MULTI-POINT LOCK SYSTEM (PRIMARY VENT) SEE NOTE 3 THIS SHEET FOR LOCATION
B.	(1) MULTI-POINT LOCK SYSTEM (SECONDARY VENT) SEE NOTE 4 THIS SHEET FOR LOCATION
C.	(5 PER SASH) BARREL HINGES AT HINGES JAMBS, 5" FROM EACH END AND SPACED 20" ON CENTER.
D.	1/4" X 1 1/4" STEEL PLATE REINFORCEMENT AT PRIMARY AND SECONDARY VENT MEETING STILES

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2200 OUTSWING WOOD TWIN CASEMENT WINDOW IMPACT HVHZ ELEVATION		
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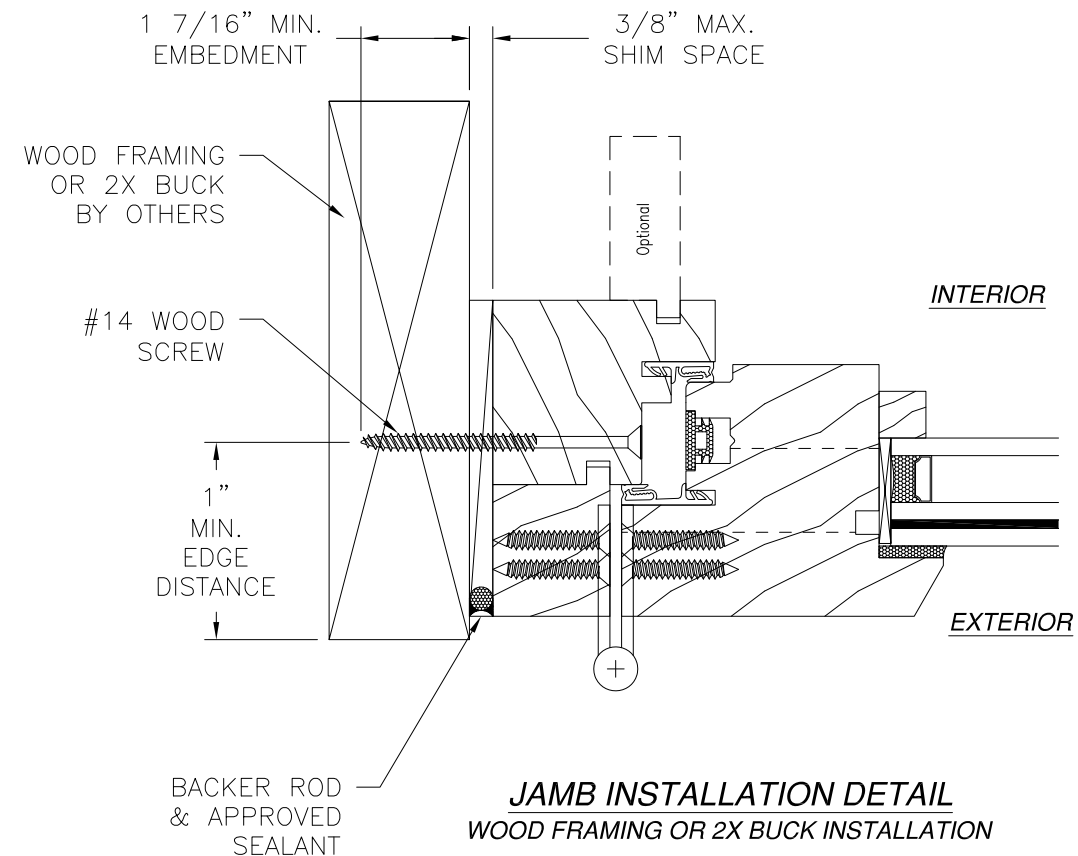
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

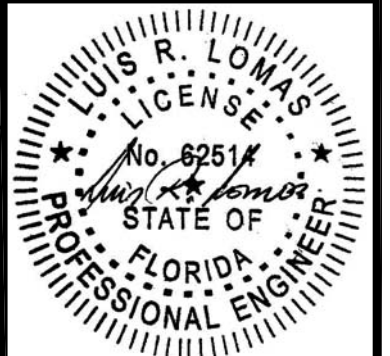
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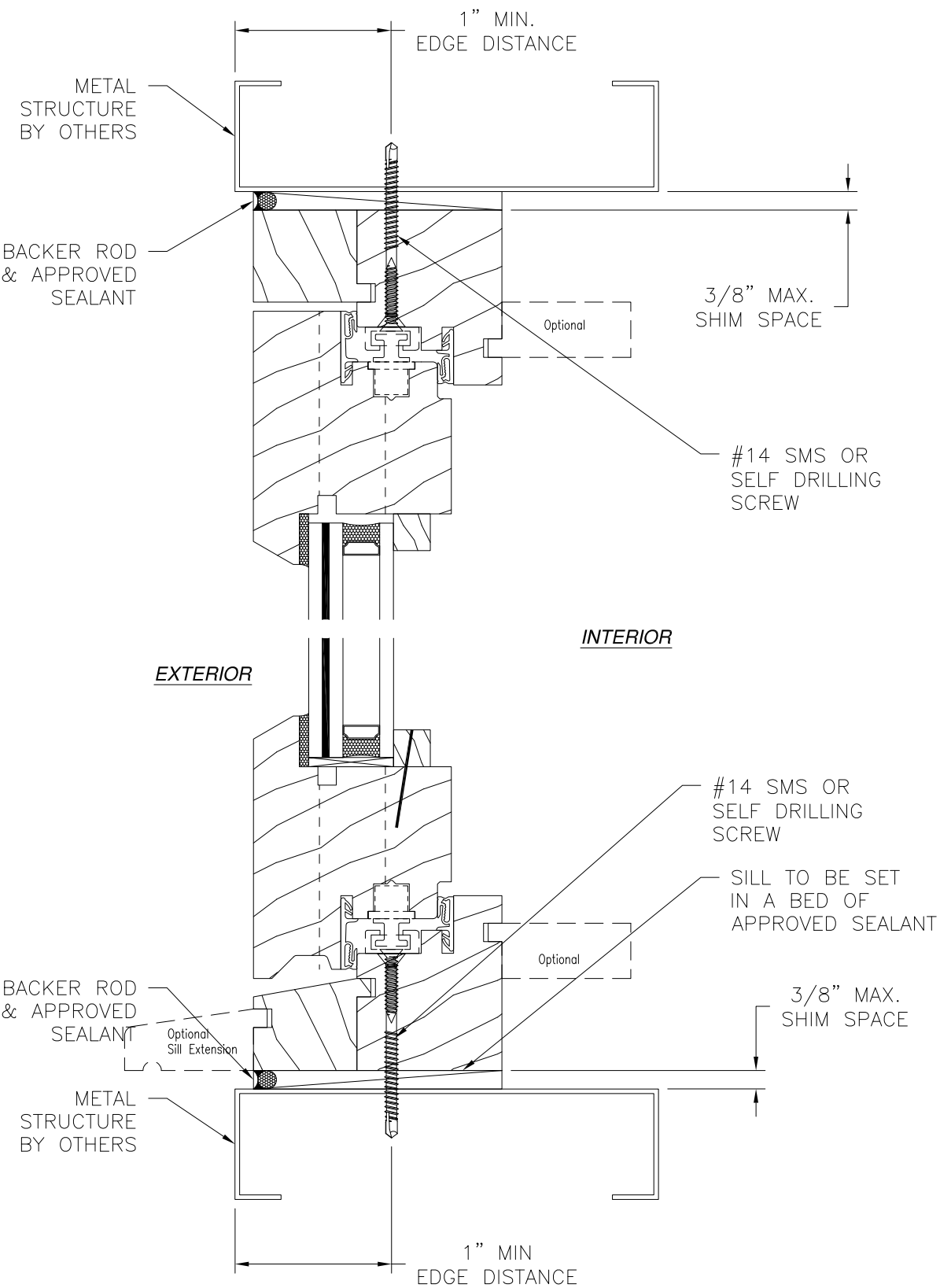
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

REVIVAL SASH 78 DIAMOND ROAD SPRINGFIELD, NJ 07081		
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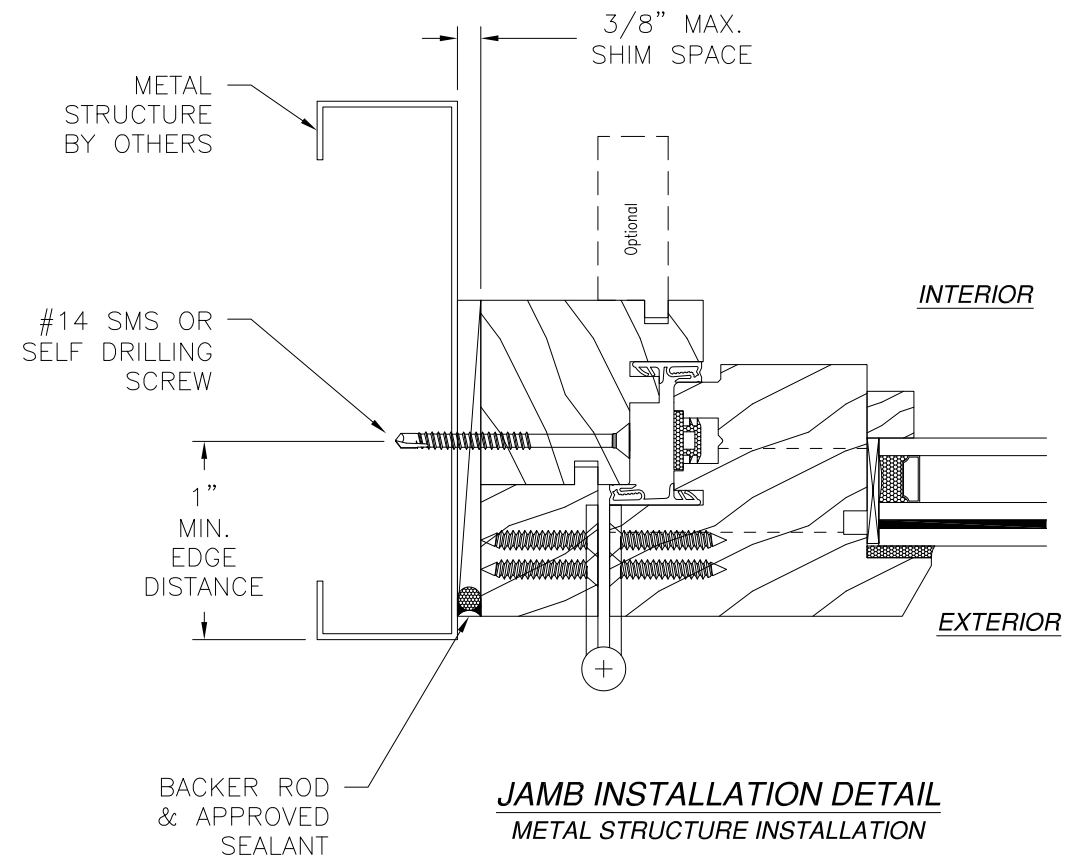
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

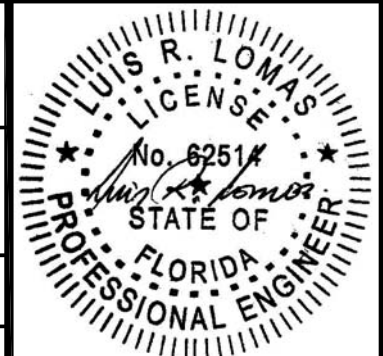
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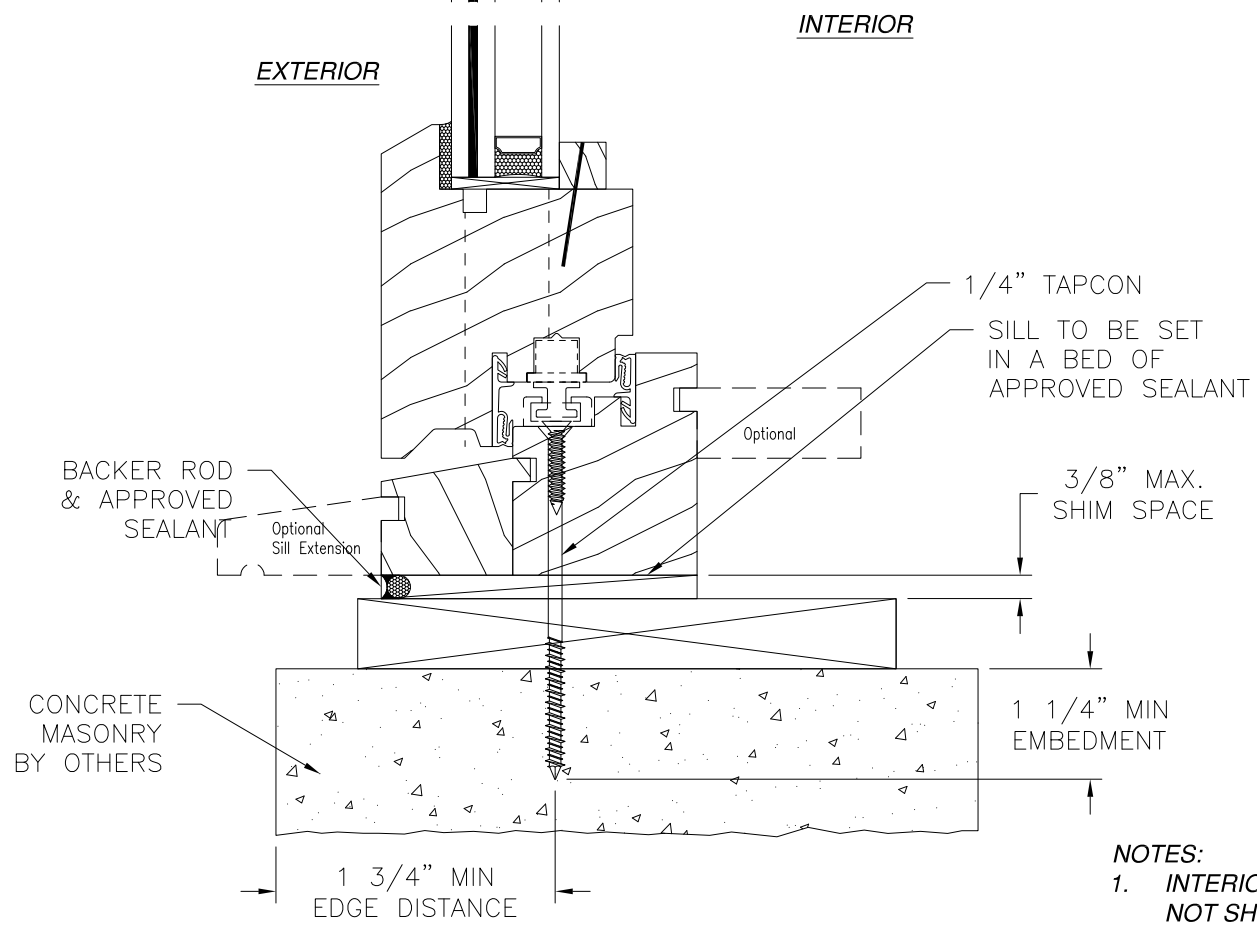
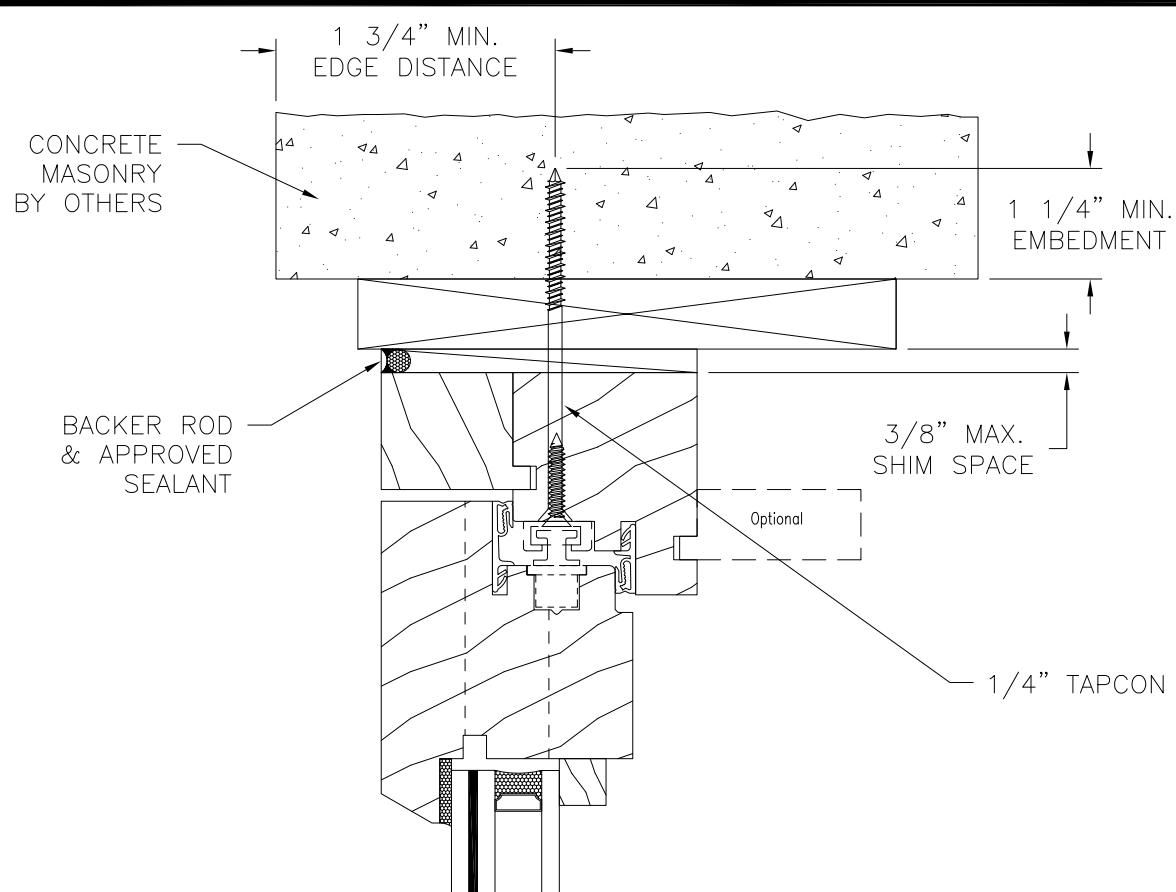


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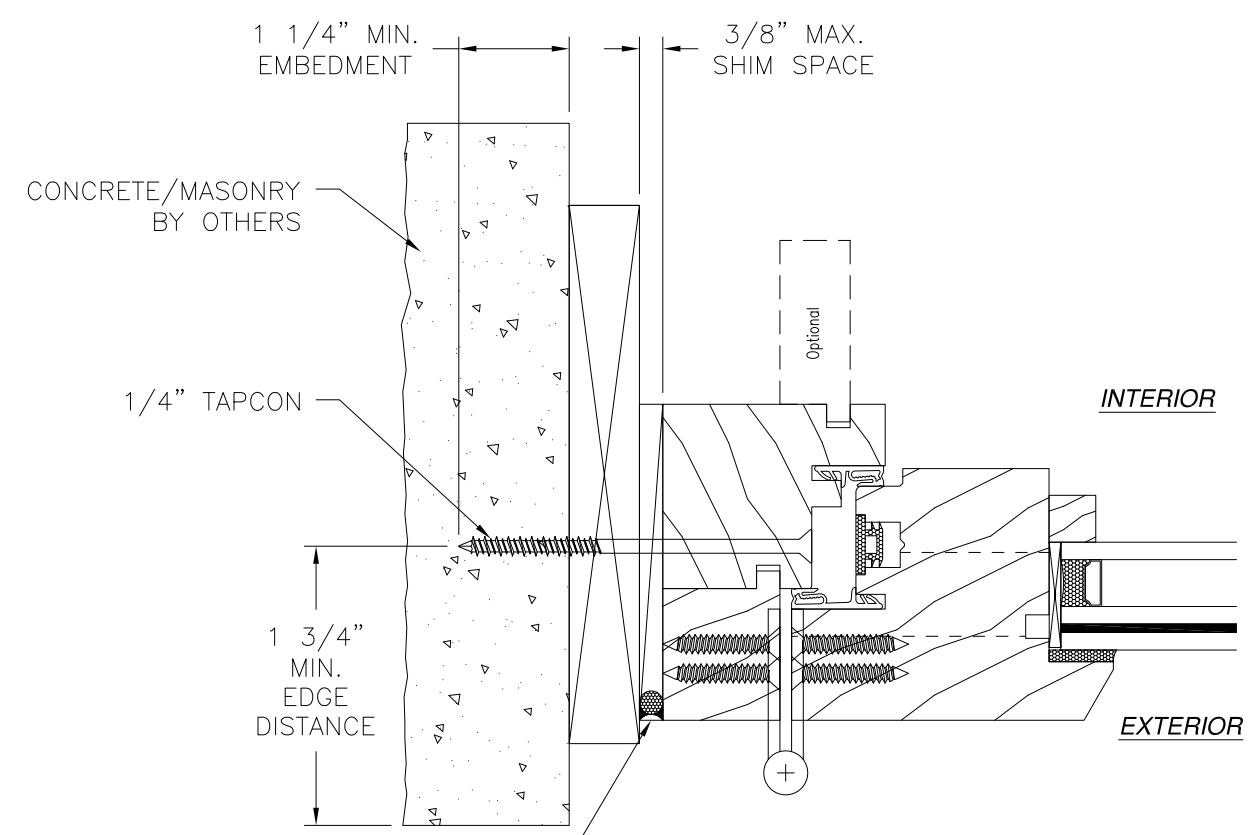
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

REVIVAL SASH
78 DIAMOND ROAD
SPRINGFIELD, NJ 07081

2200 OUTSWING WOOD TWIN CASEMENT WINDOW
IMPACT HVHZ
INSTALLATION DETAILS THROUGH FRAME

DRAWN:
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08-03495

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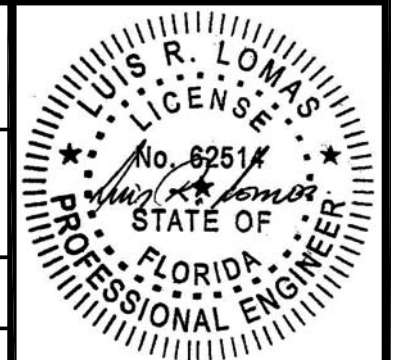
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SHEET
5 OF 14

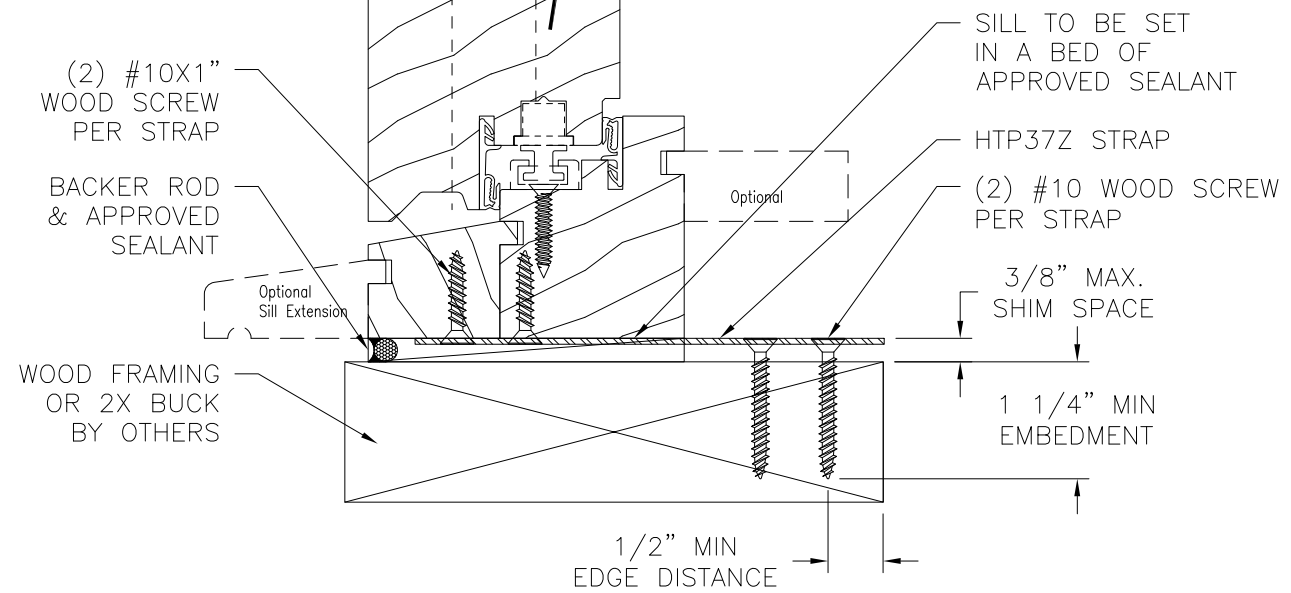
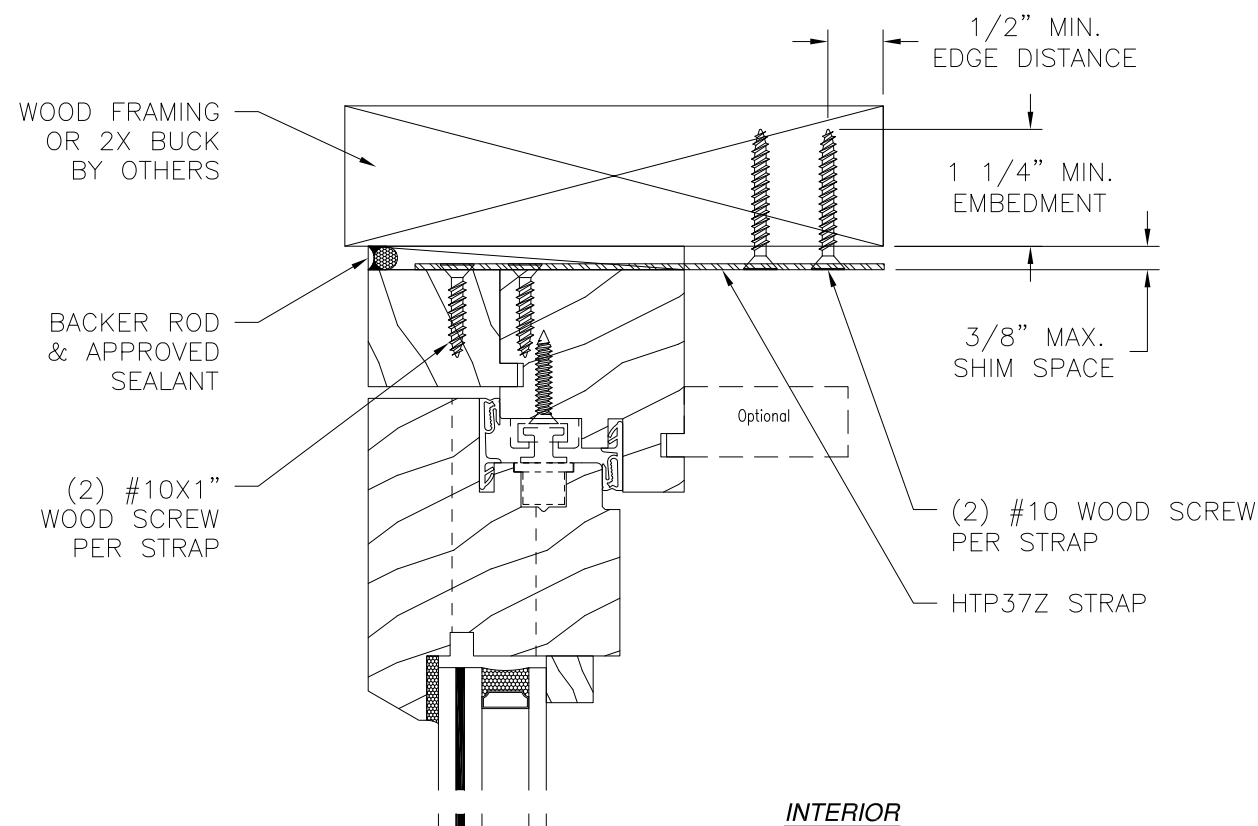
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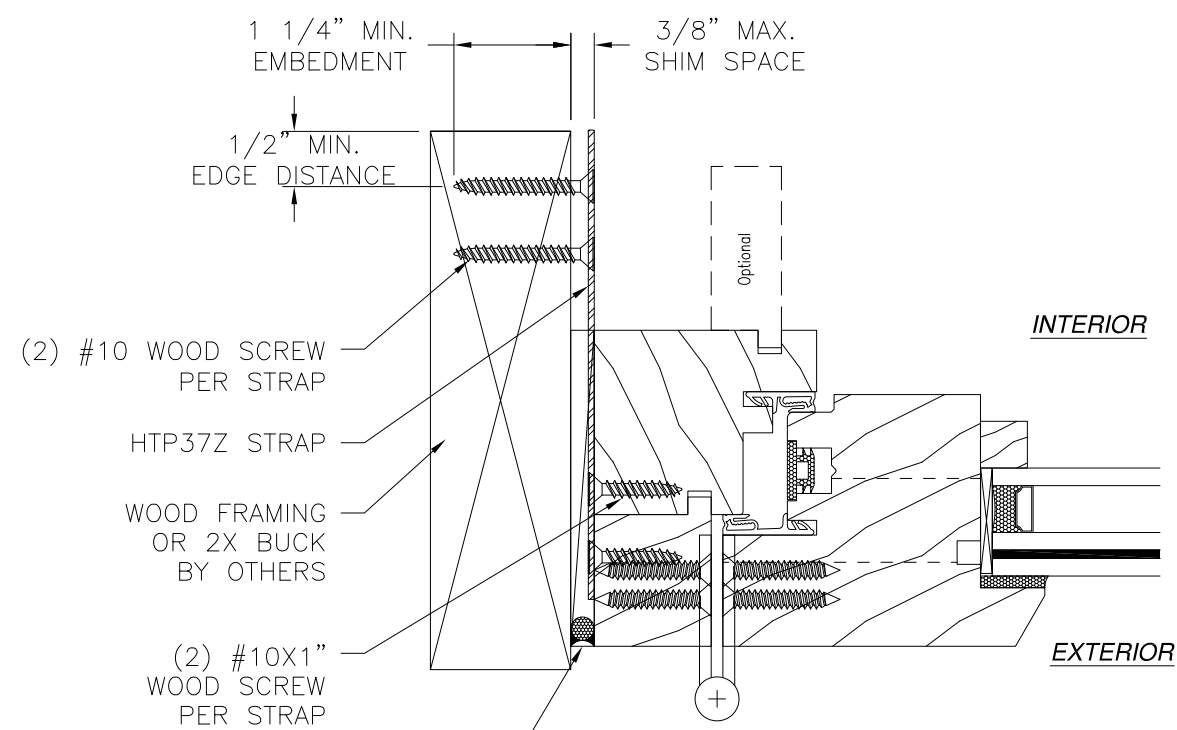
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

REVIVAL SASH

78 DIAMOND ROAD
SPRINGFIELD, NJ 07081

2200 OUTSWING WOOD TWIN CASEMENT WINDOW

IMPACT HVHZ

INSTALLATION DETAILS WITH HTP37Z STRAP

DRAWN: R.L.

DWG NO. 08-03495

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SCALE NTS

DATE 10/03/2019

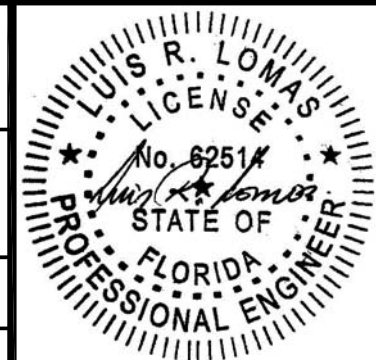
SHEET 6 OF 14

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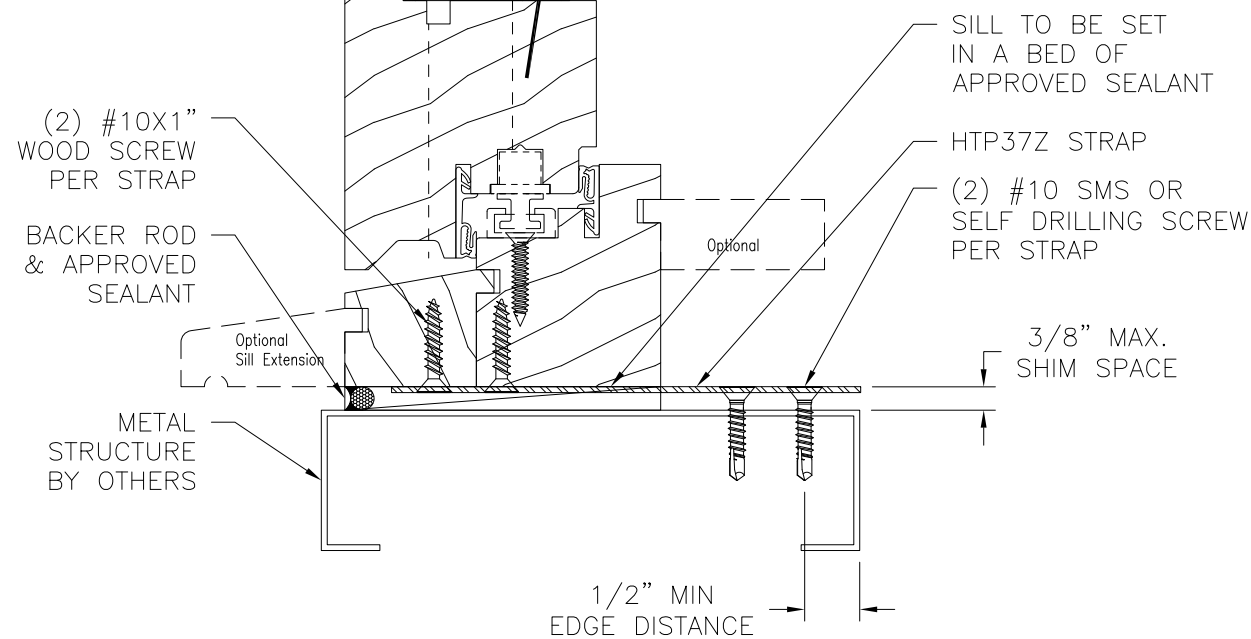
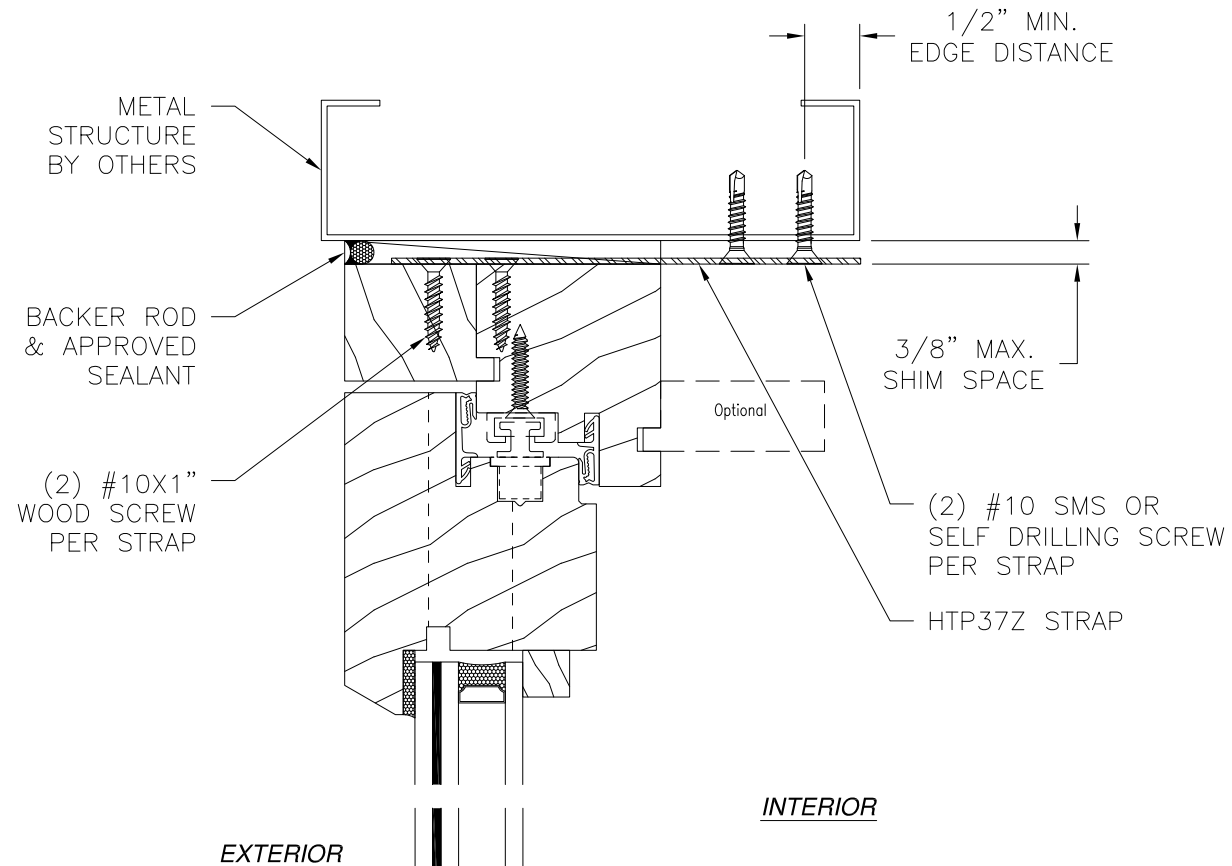
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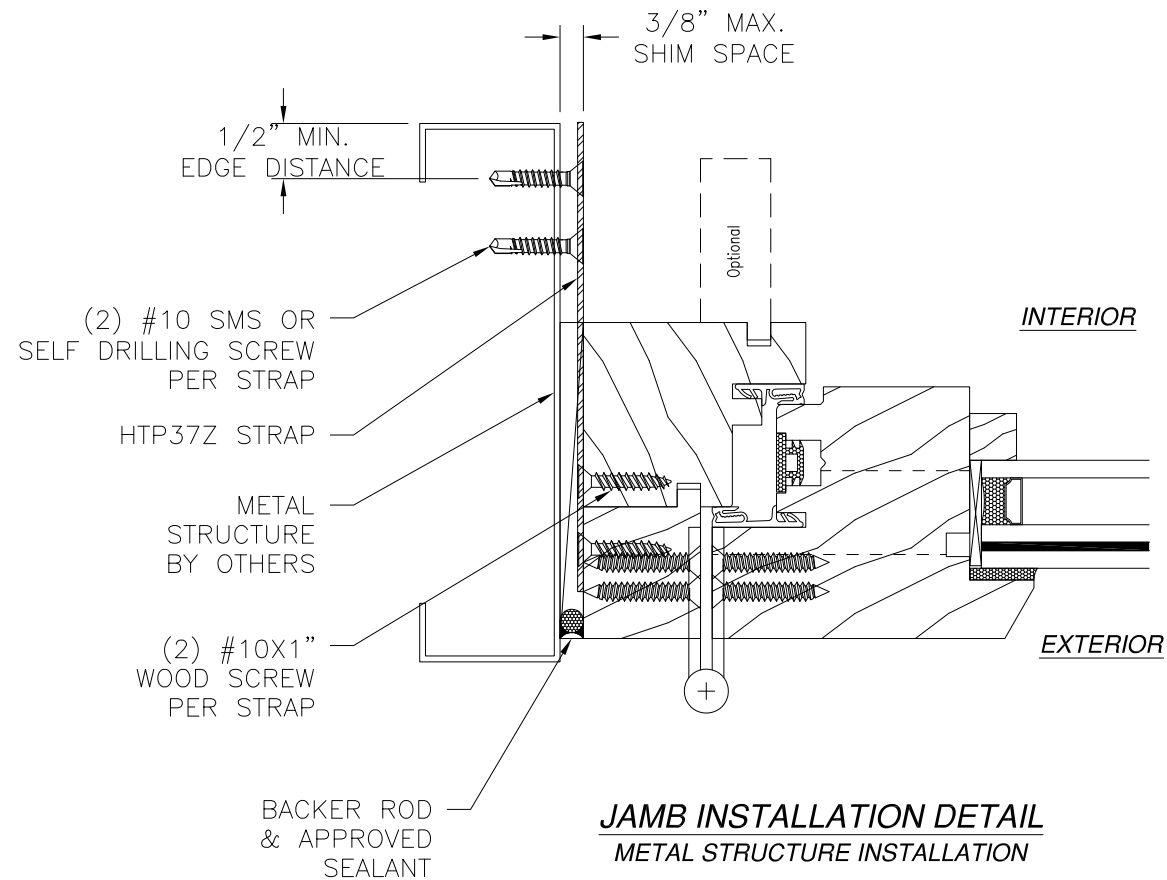
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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METAL STRUCTURE INSTALLATION

REVIVAL SASH

78 DIAMOND ROAD
SPRINGFIELD, NJ 07081

2200 OUTSWING WOOD TWIN CASEMENT WINDOW
IMPACT HVHZ
INSTALLATION DETAILS WITH HTP37Z STRAP

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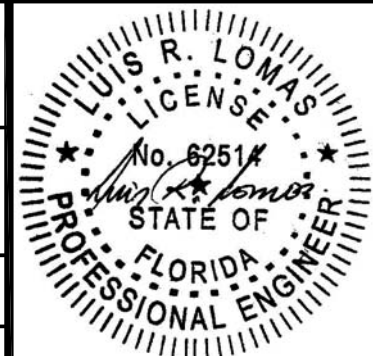
SHEET 7 OF 14

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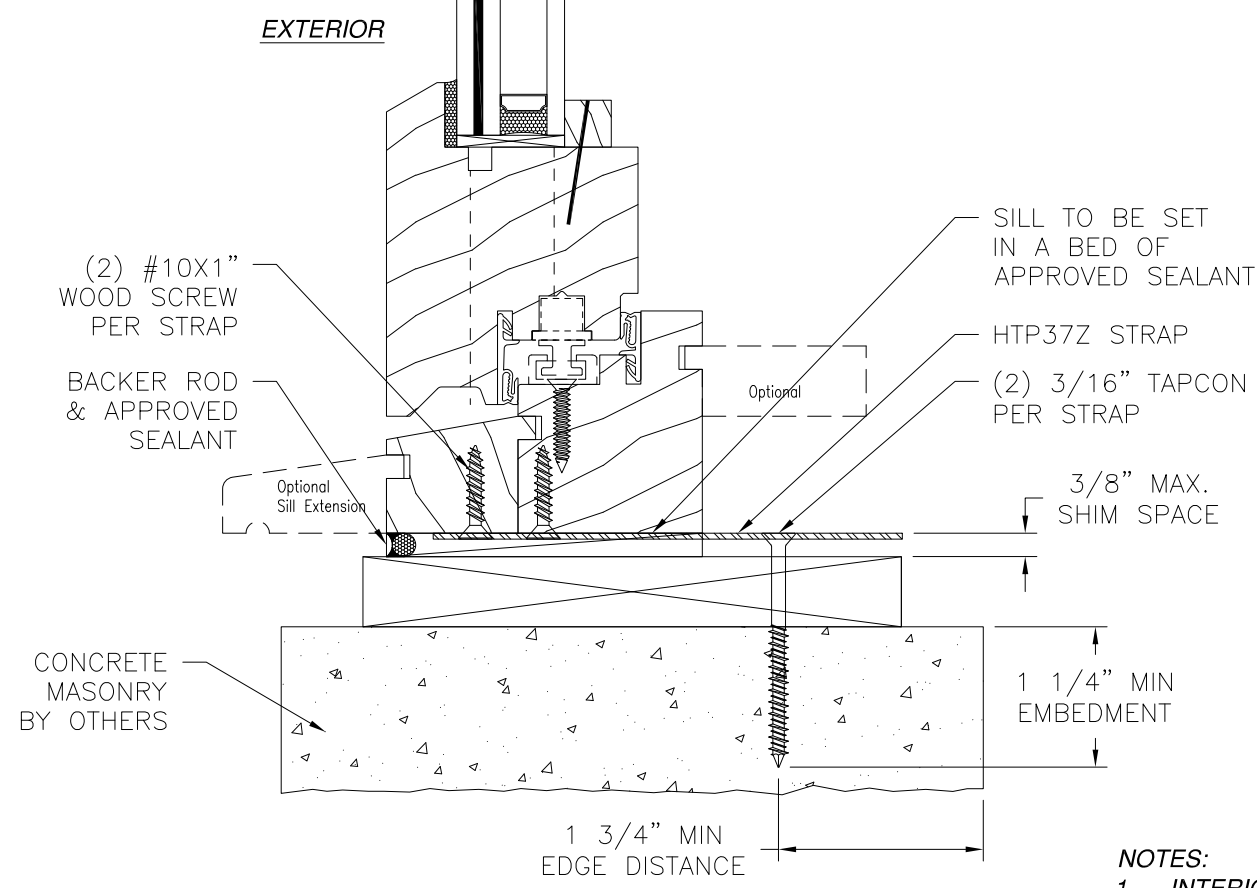
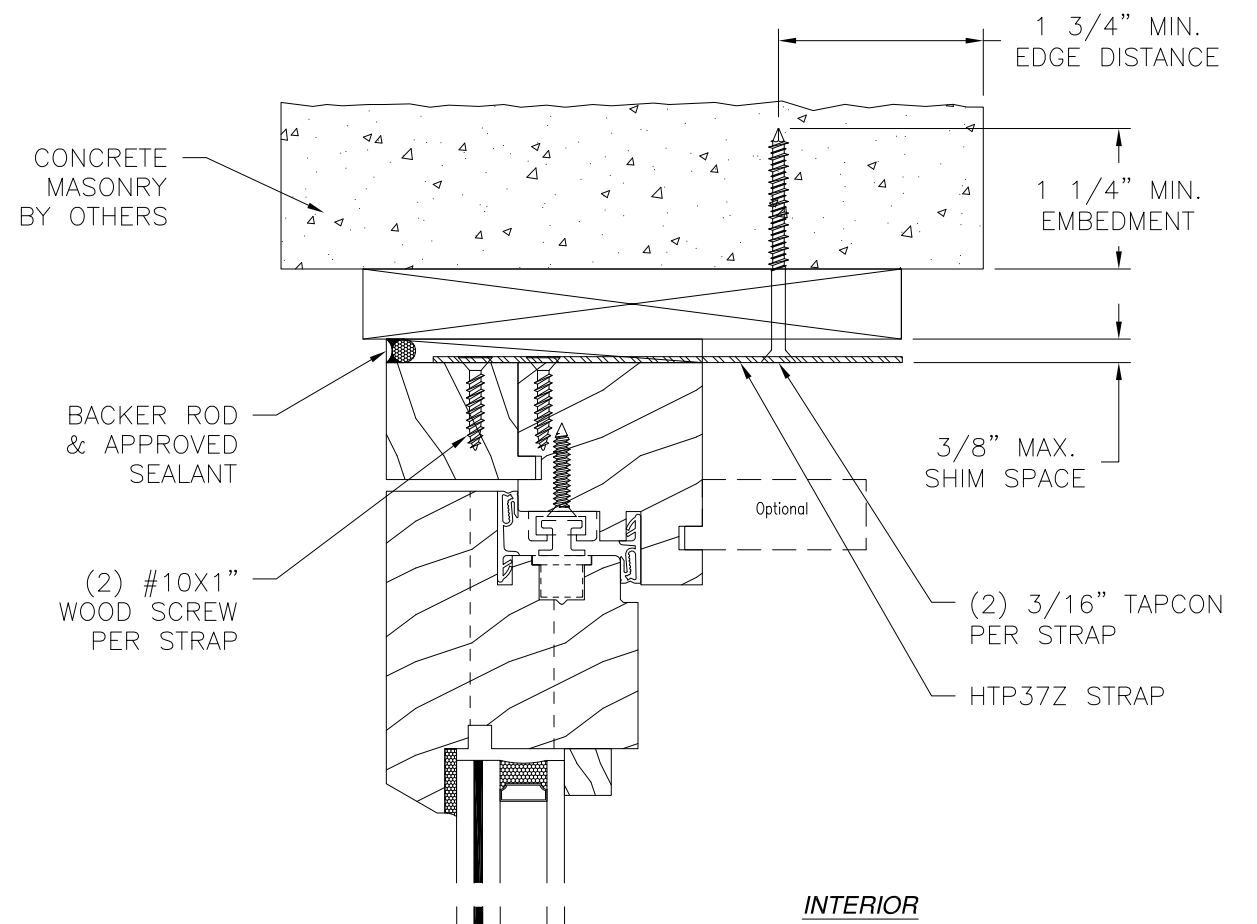
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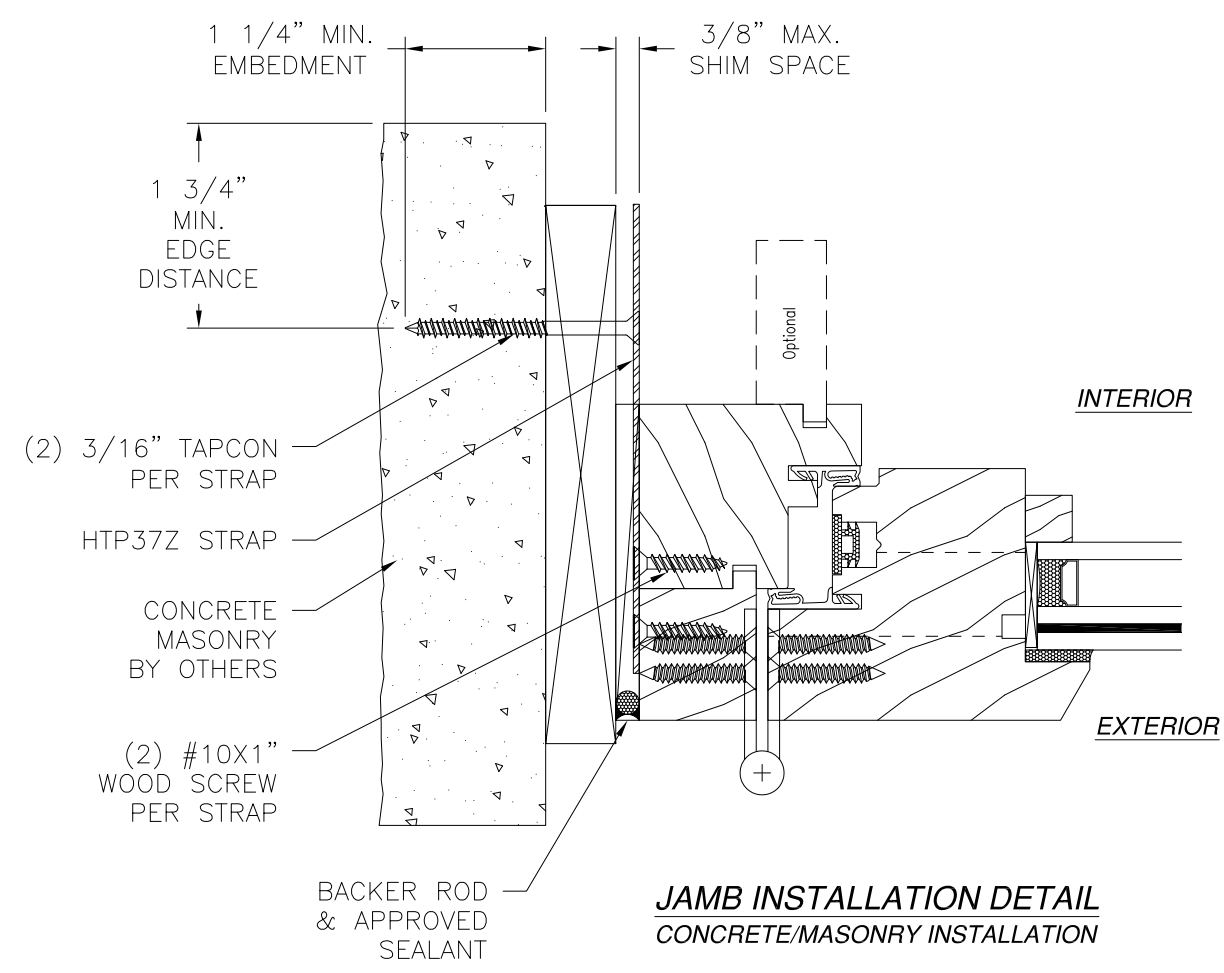
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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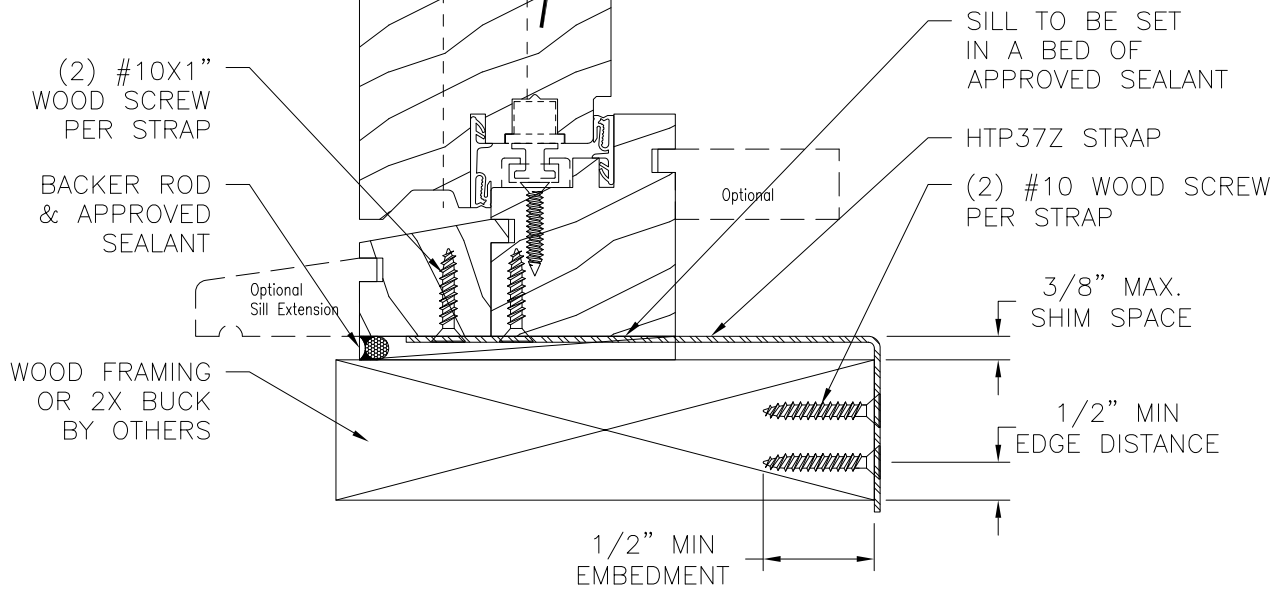
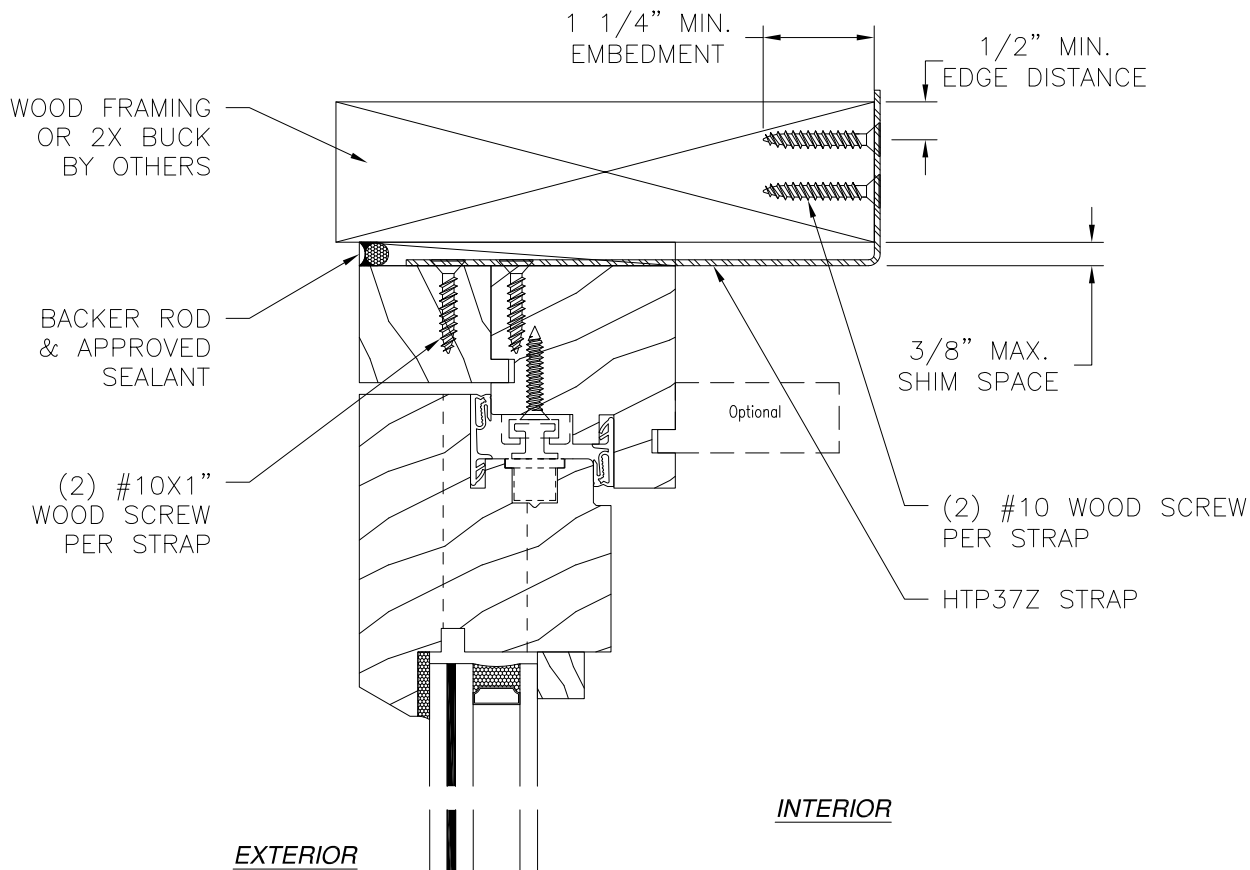
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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2200 OUTSWING WOOD TWIN CASEMENT WINDOW IMPACT HVHZ INSTALLATION DETAILS WITH HTP37Z STRAP		
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SCALE NTS	DATE 10/03/2019	SHEET 8 OF 14
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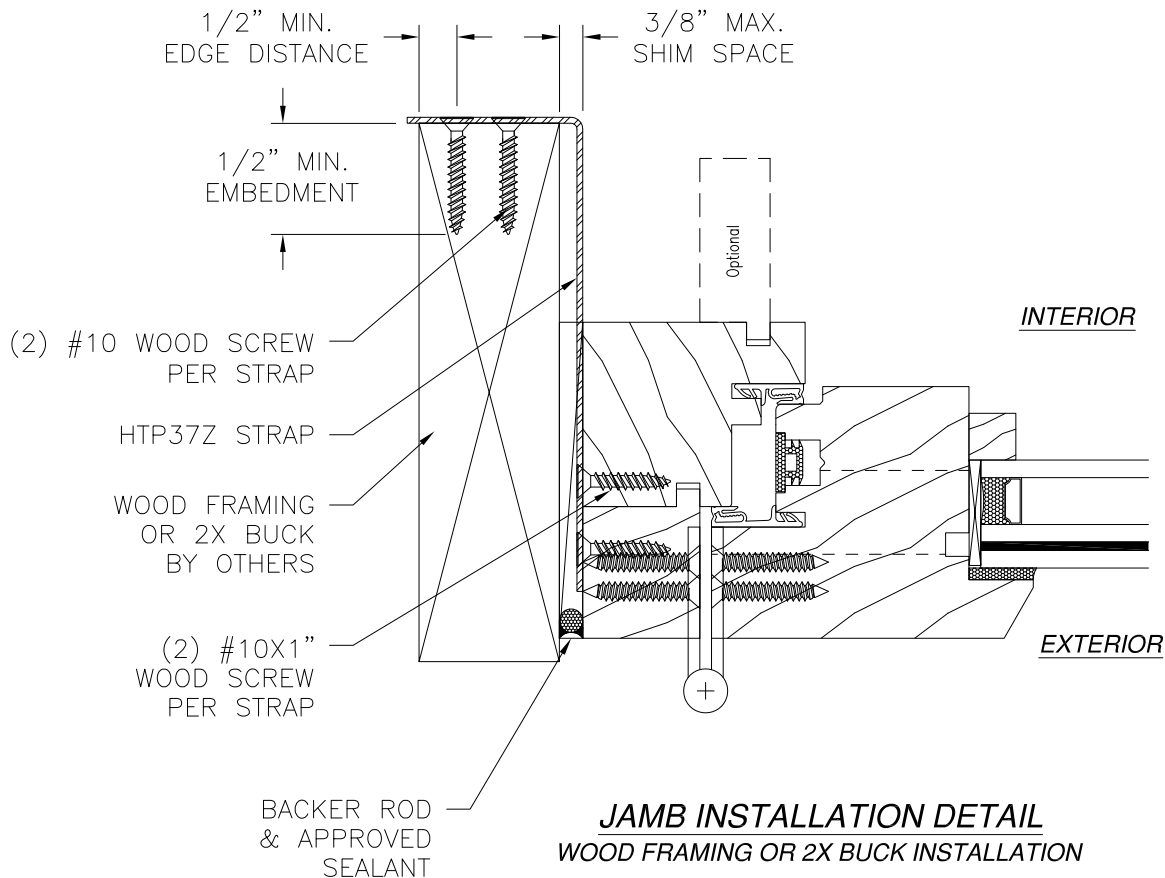
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

REVIVAL SASH

78 DIAMOND ROAD
SPRINGFIELD, NJ 07081

2200 OUTSWING WOOD TWIN CASEMENT WINDOW

IMPACT HVHZ

INSTALLATION DETAILS WITH CLIP

DRAWN:

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DWG NO.

08-03495

REV

A

SCALE

NTS

DATE

10/03/2019

SHEET

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OF

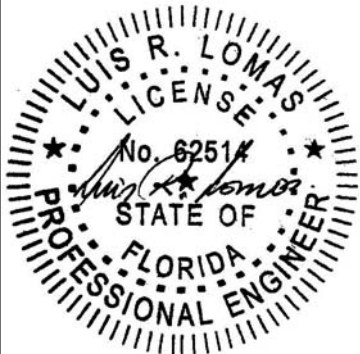
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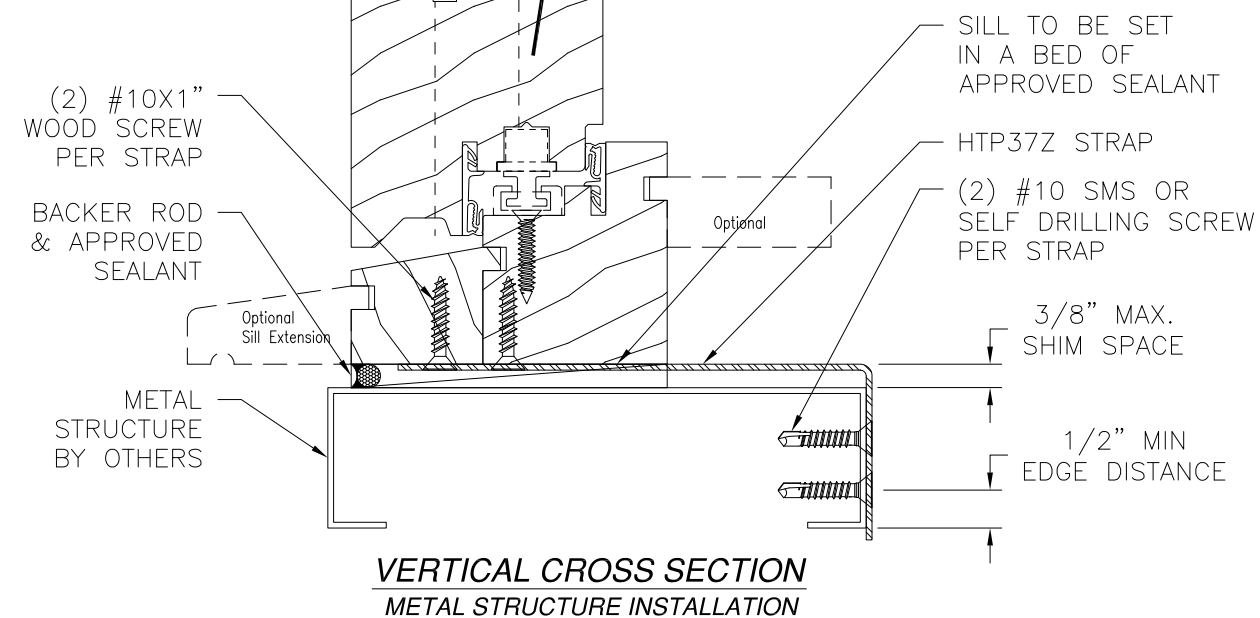
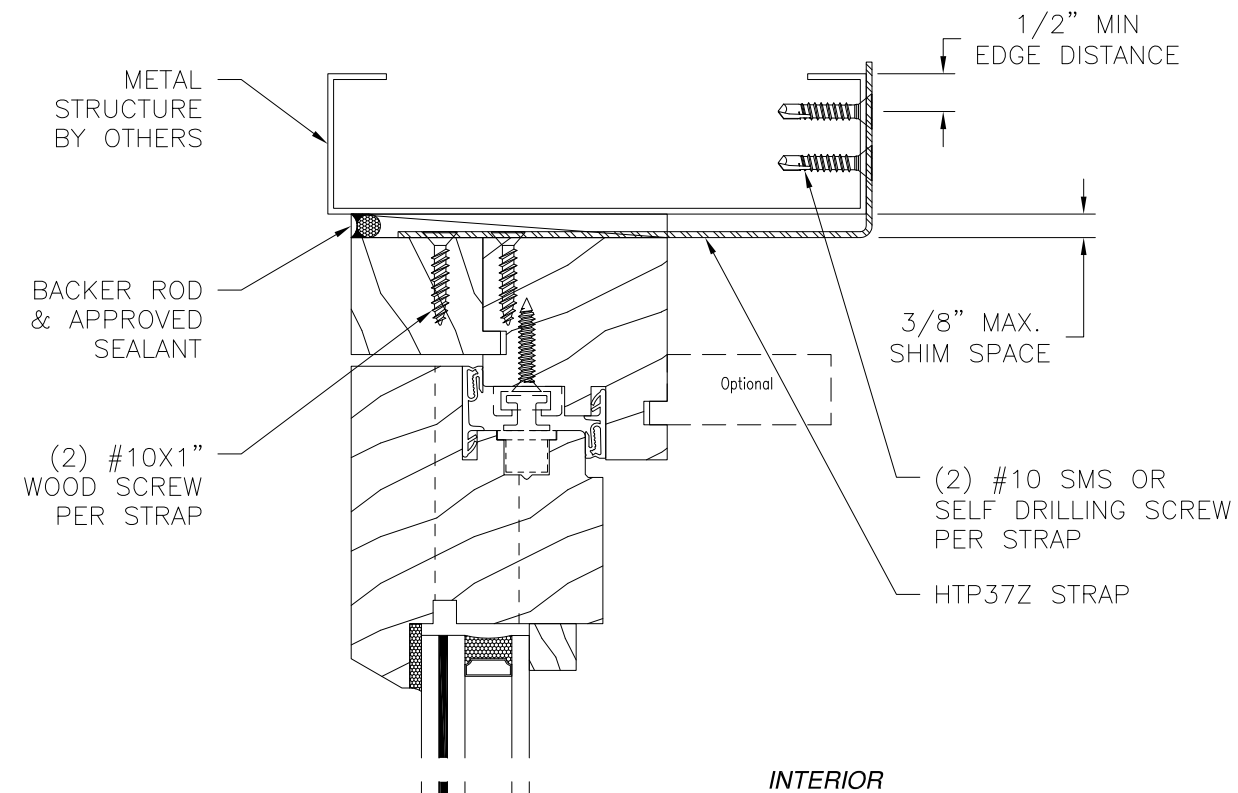
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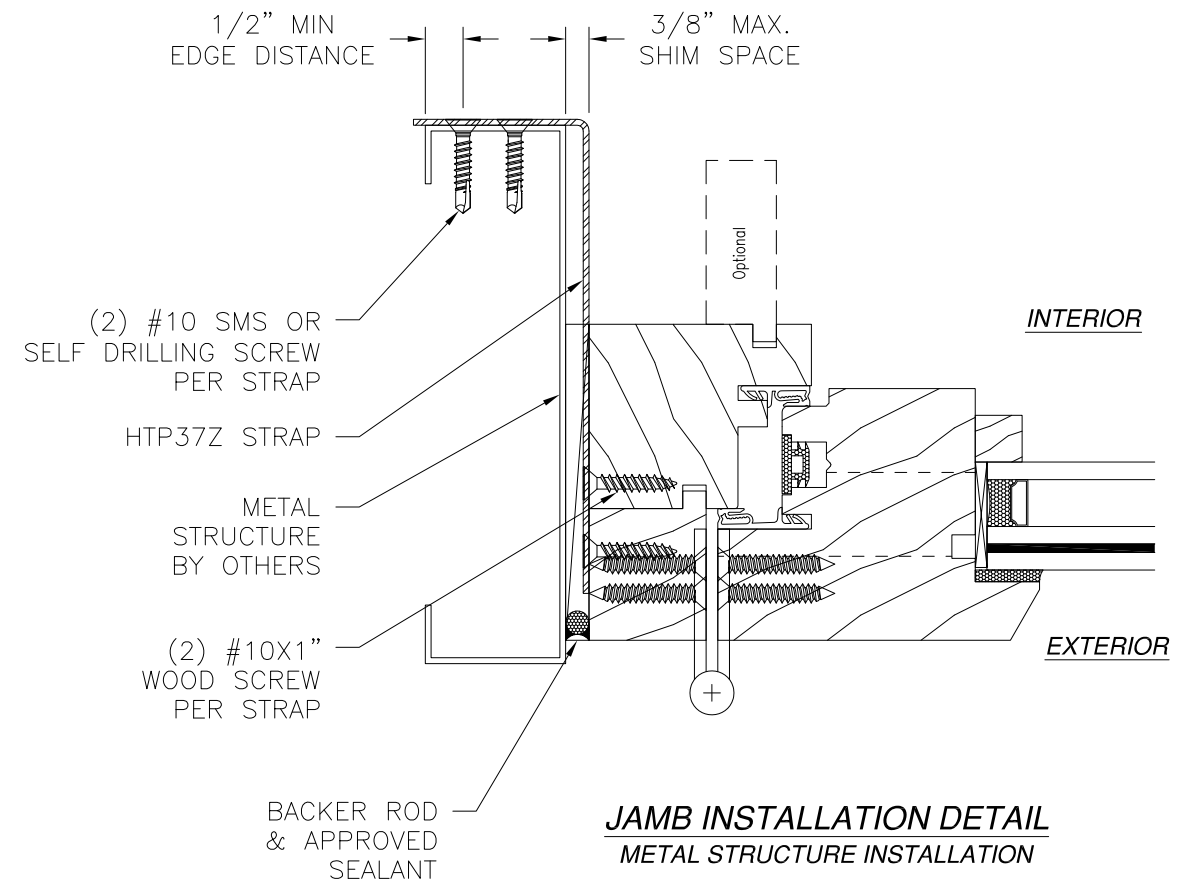
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

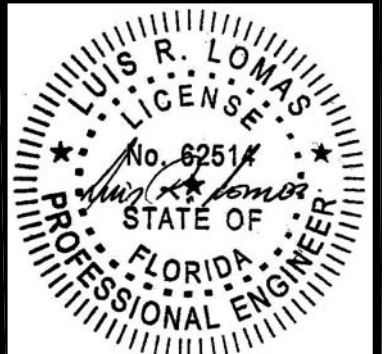
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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

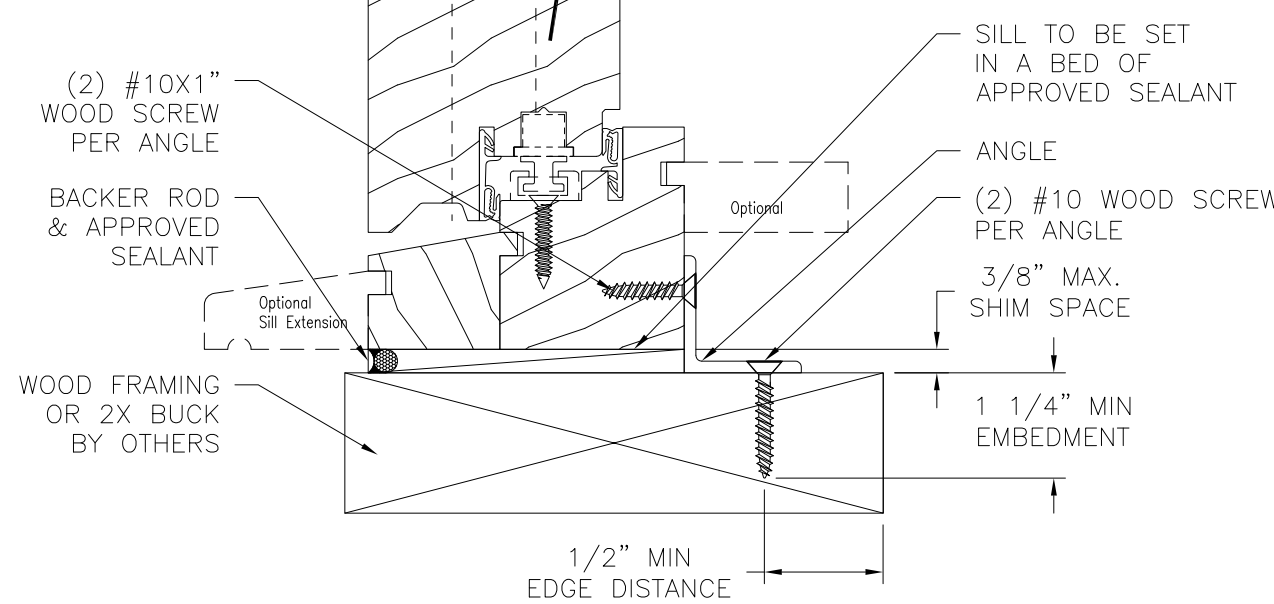
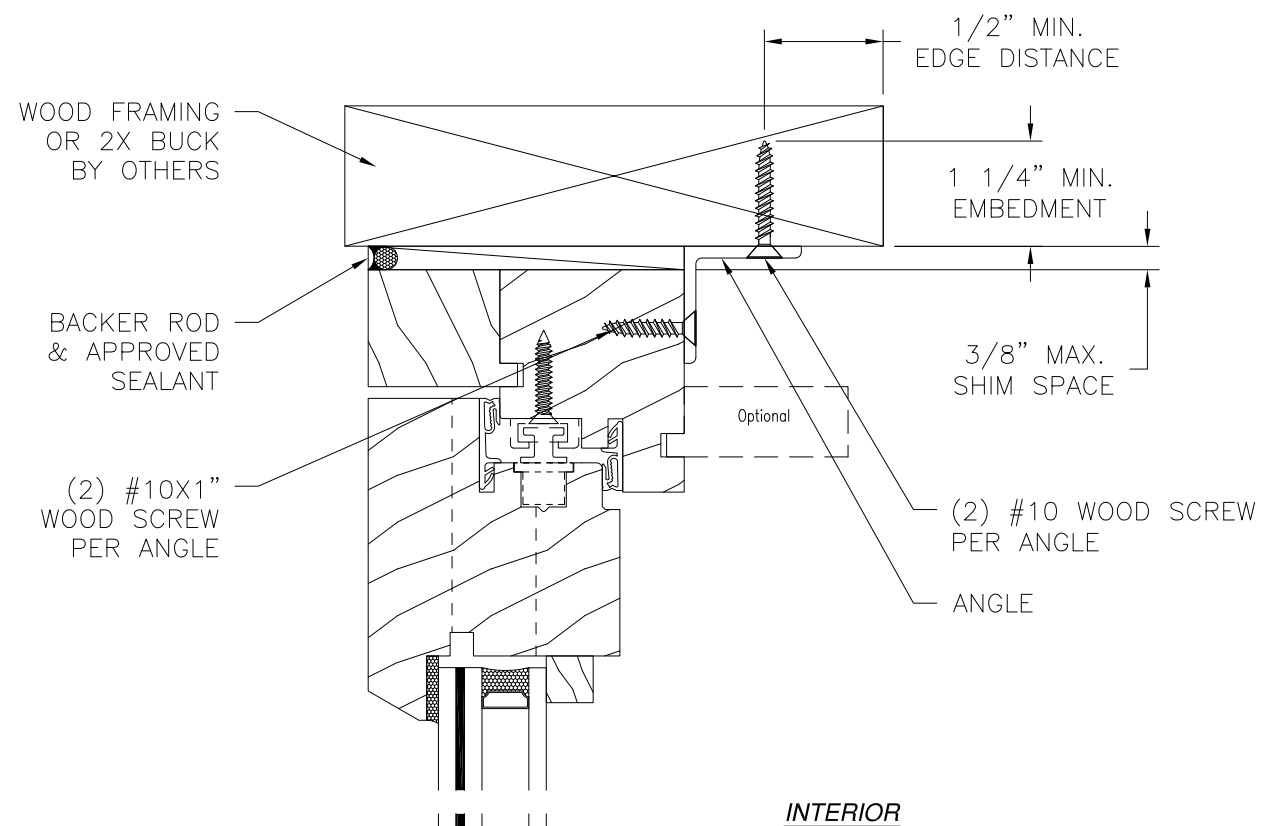
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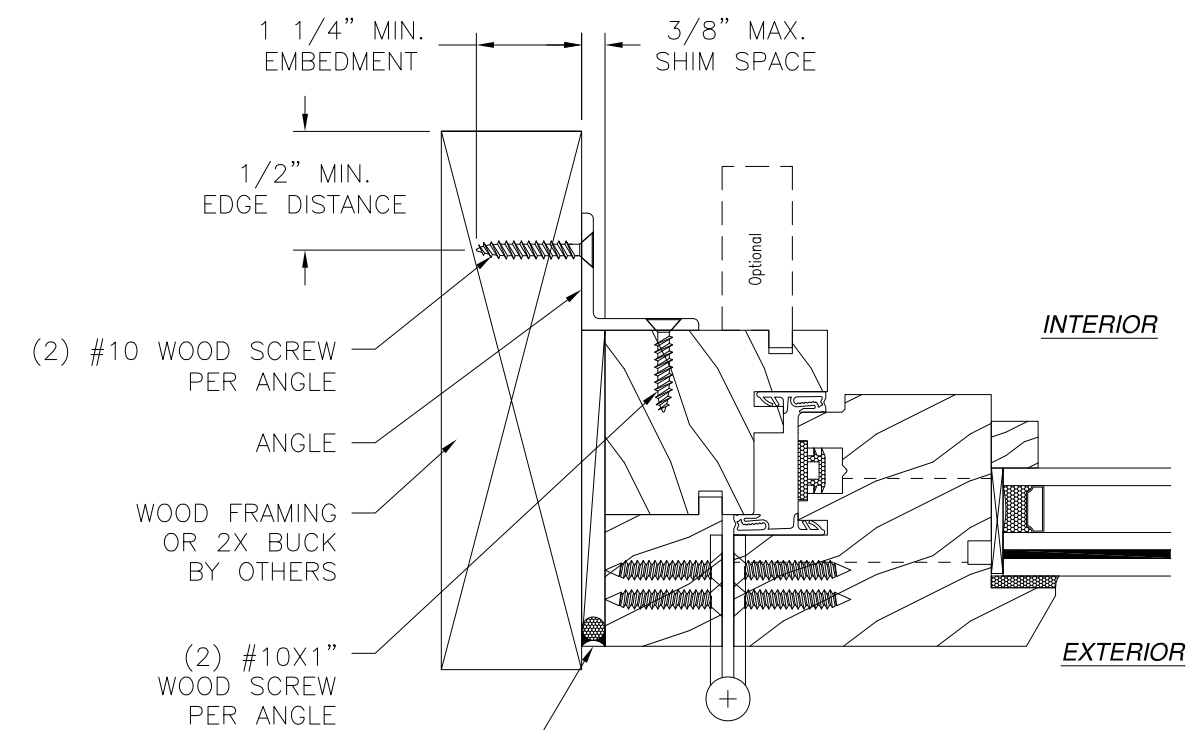
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

REVIVAL SASH

78 DIAMOND ROAD
SPRINGFIELD, NJ 07081

2200 OUTSWING WOOD TWIN CASEMENT WINDOW

IMPACT HVHZ

INSTALLATION DETAILS WITH ANGLE

DRAWN: R.L.

DWG NO. 08-03495

REV A

SCALE NTS

DATE 10/03/2019

SHEET 11 OF 14

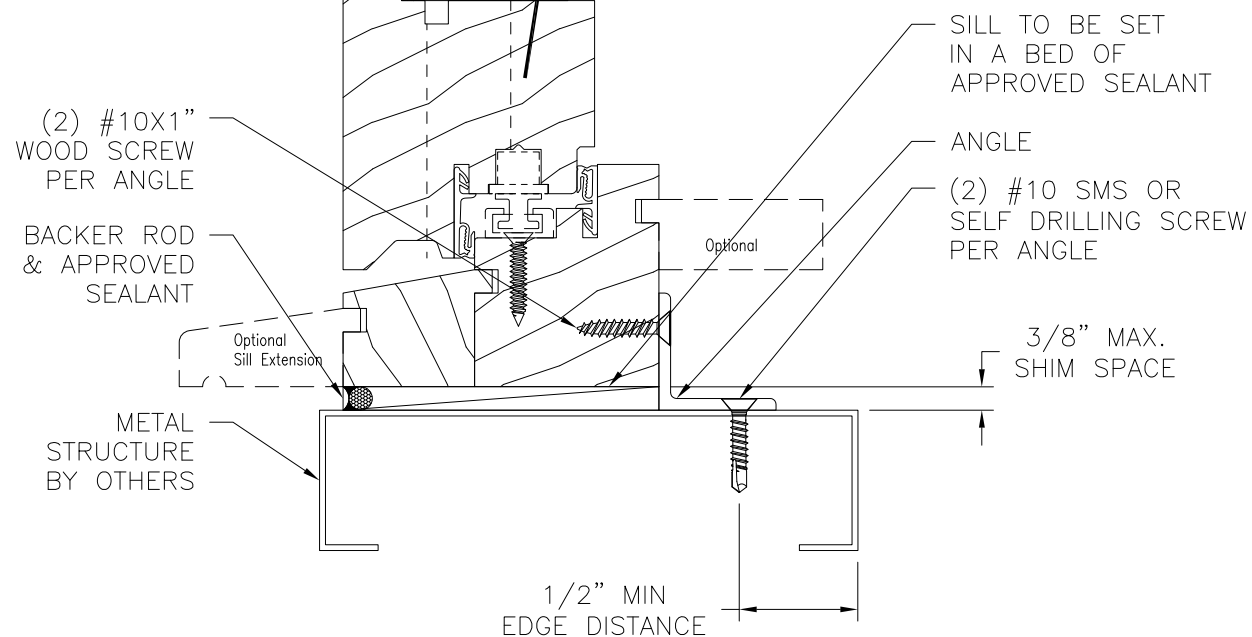
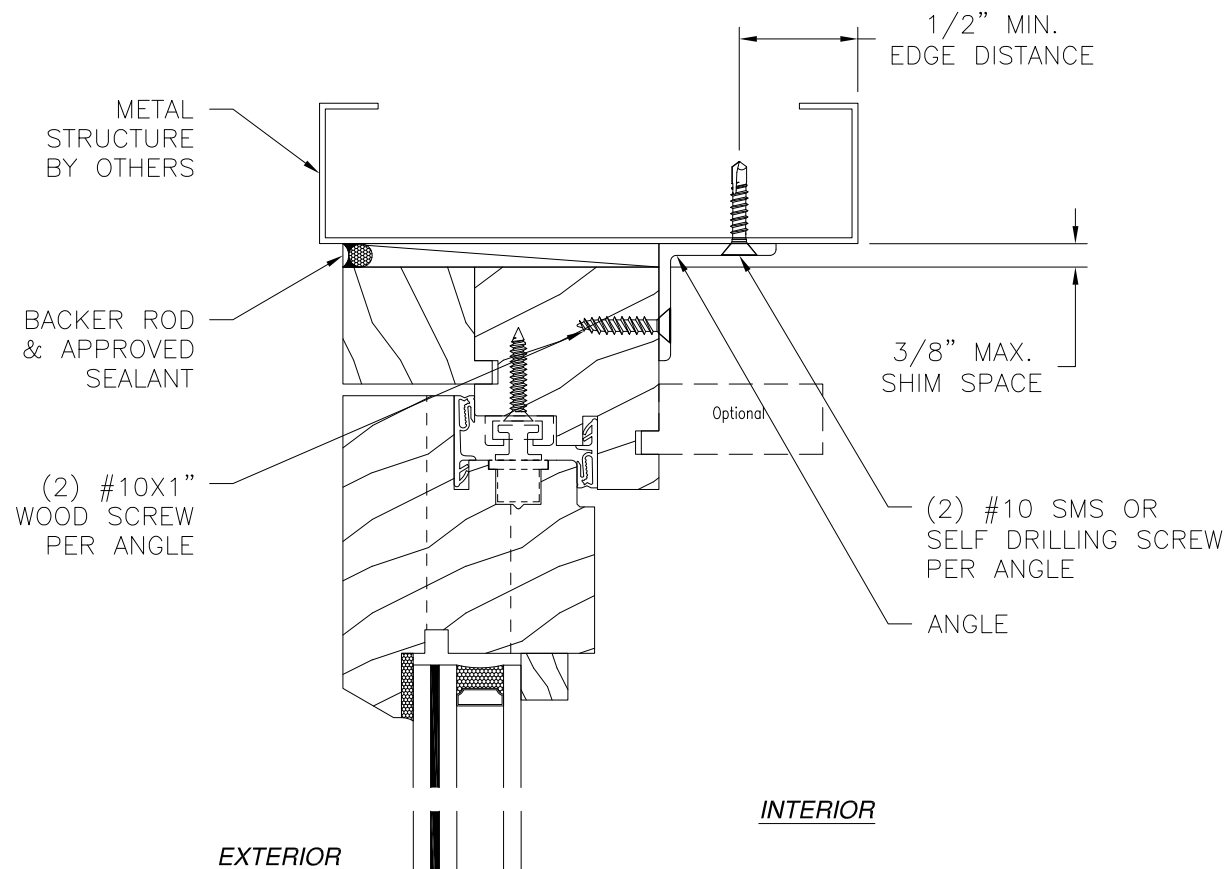
L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 02/05/2020

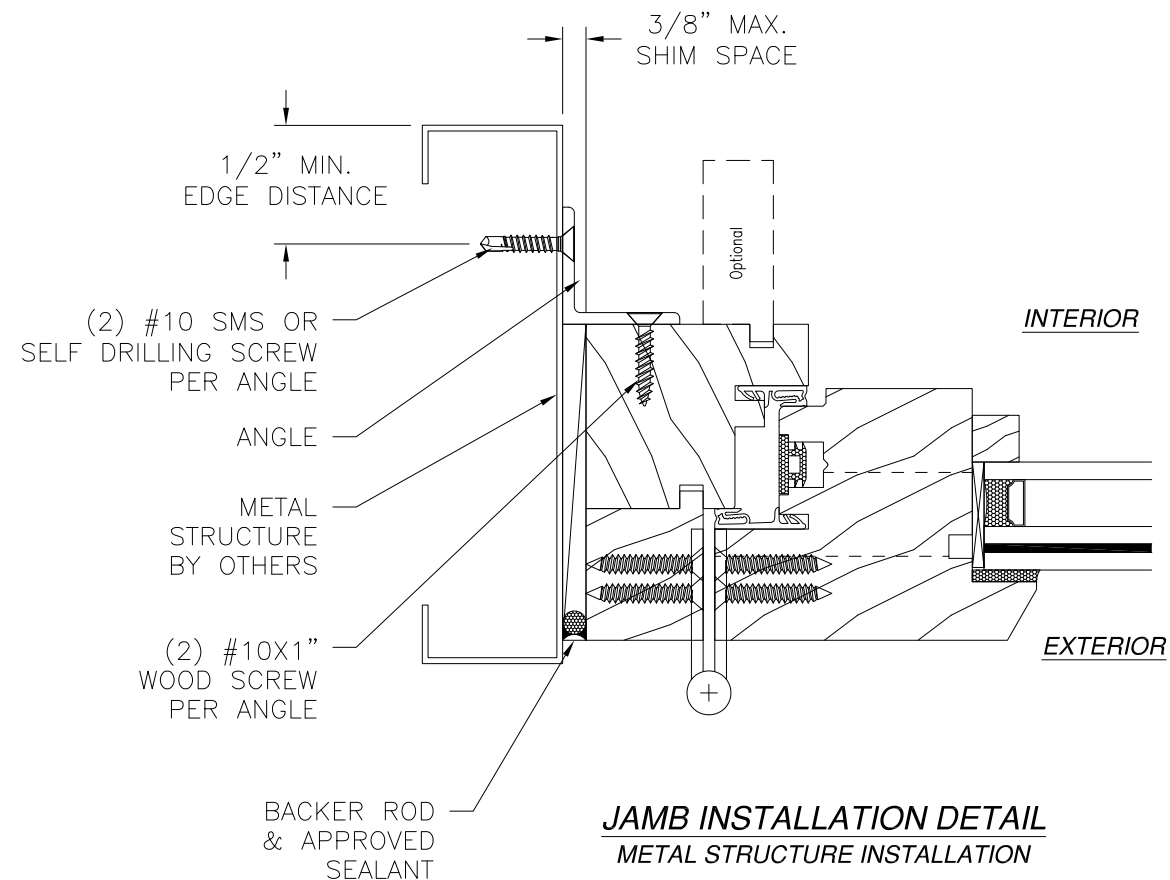
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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

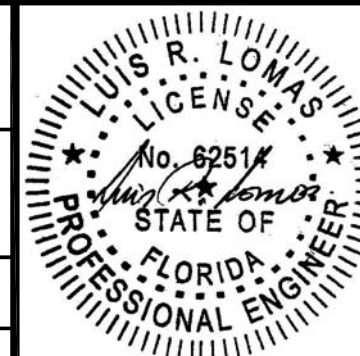
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED MONOLITHIC GLASS	01/22/2020	R.L.



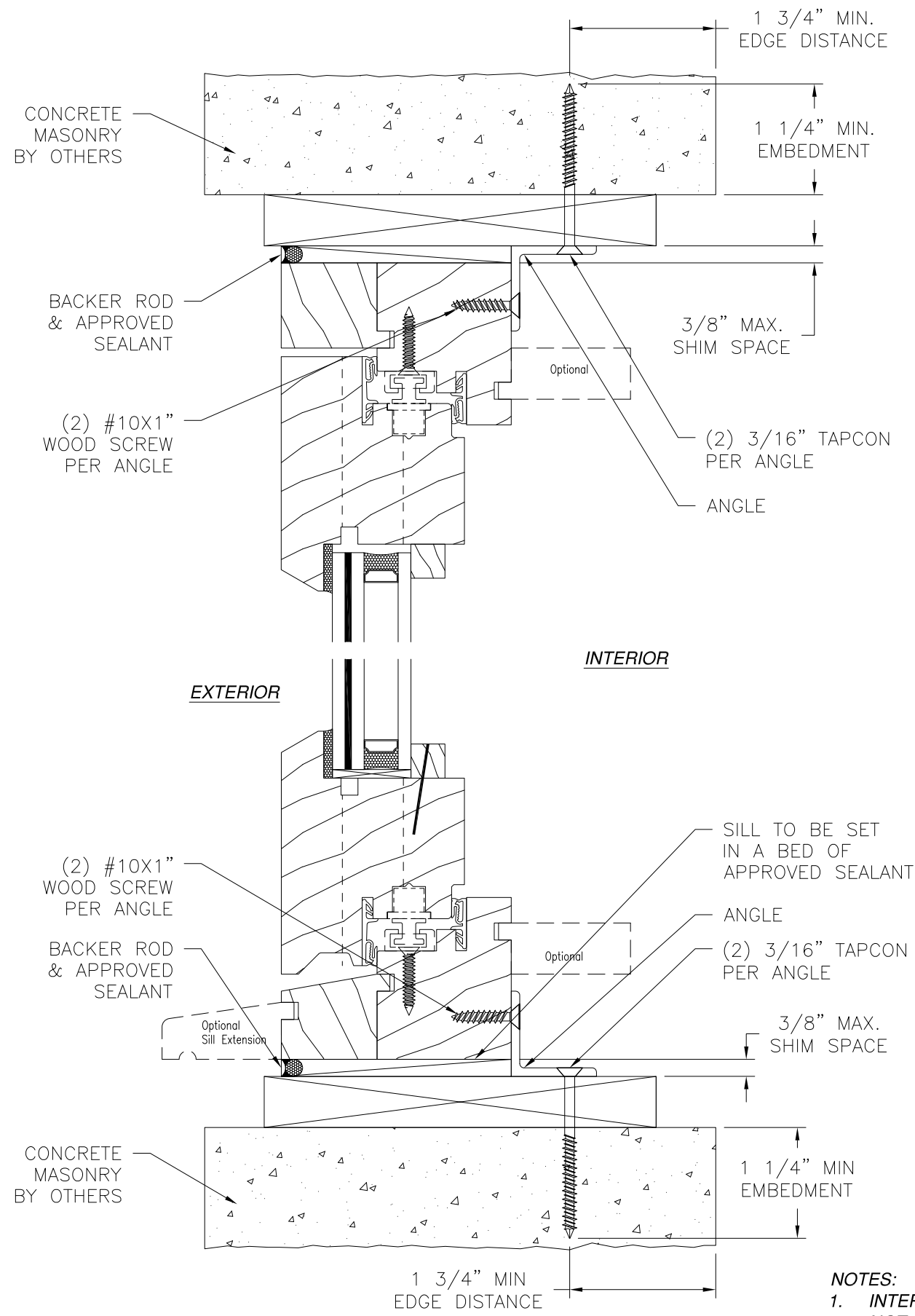
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SIGNED: 02/05/2020

REVIVAL SASH 78 DIAMOND ROAD SPRINGFIELD, NJ 07081		
2200 OUTSWING WOOD TWIN CASEMENT WINDOW IMPACT HVHZ INSTALLATION DETAILS WITH ANGLE		
DRAWN: R.L.	DWG NO. 08-03495	REV A
SCALE NTS	DATE 10/03/2019	SHEET 12 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



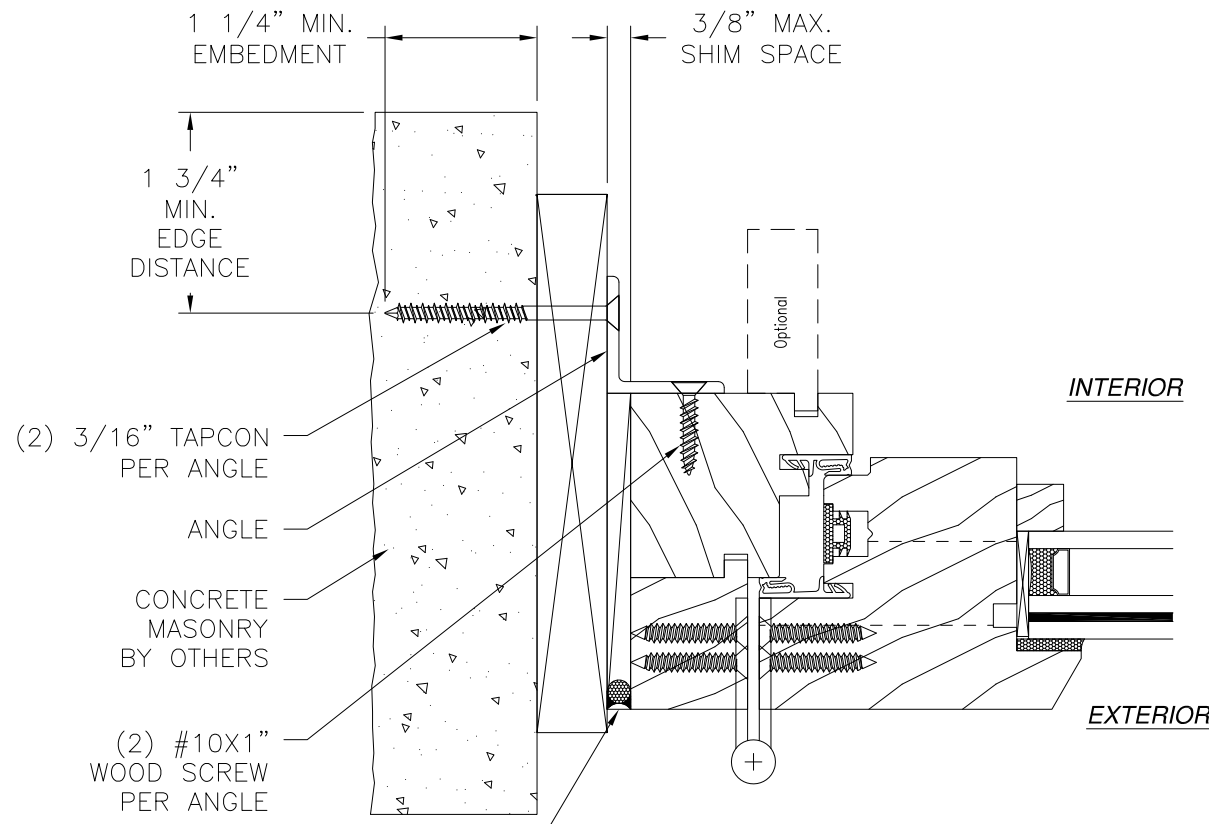
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY 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

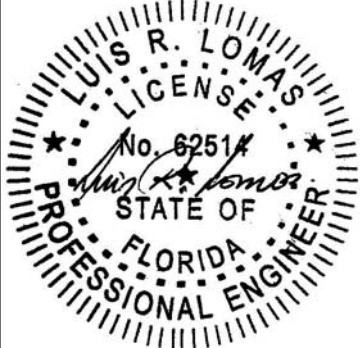
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED MONOLITHIC GLASS	01/22/2020	R.L.



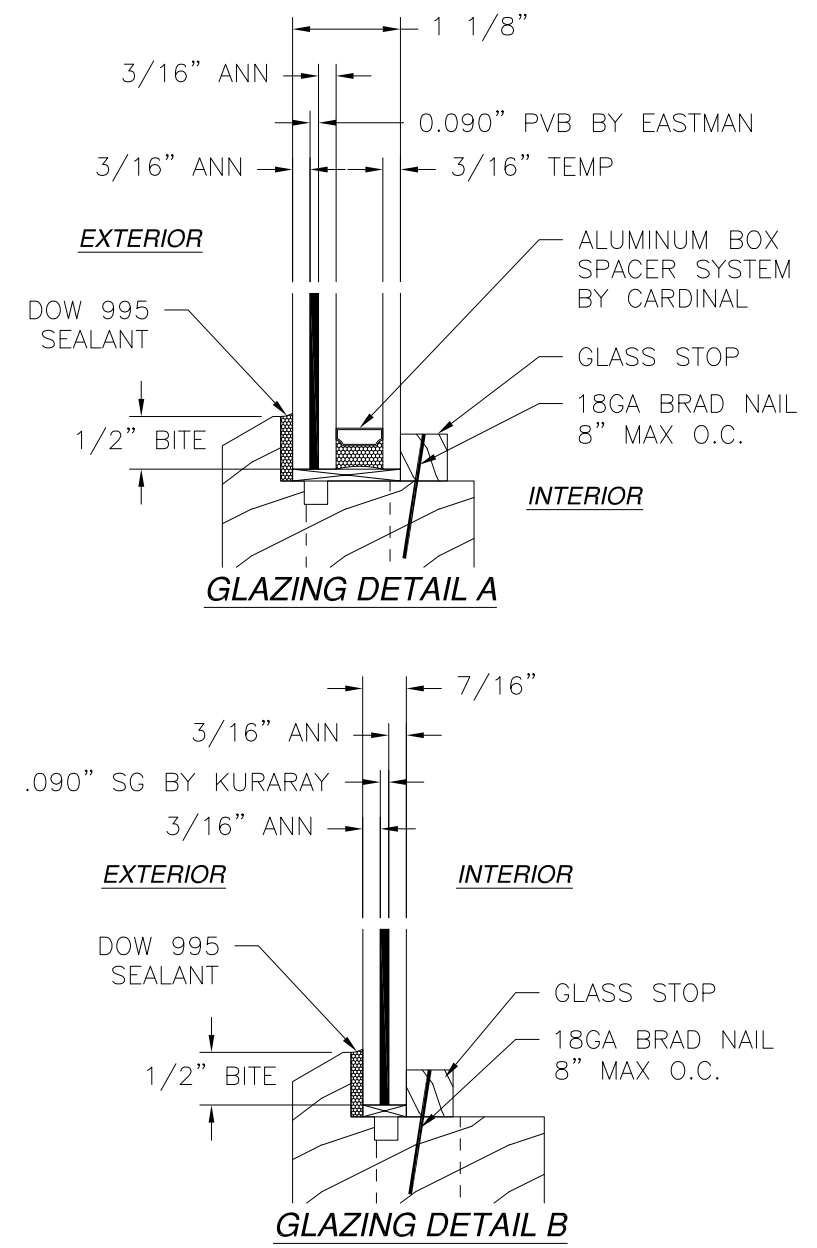
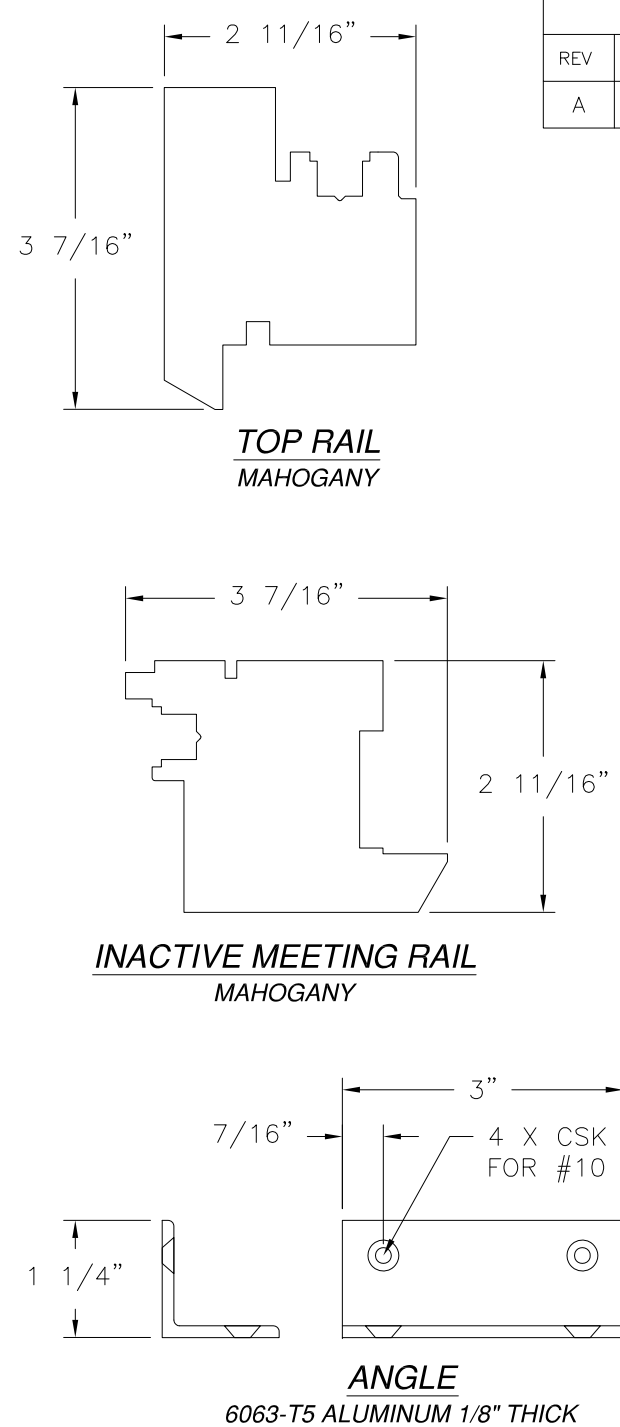
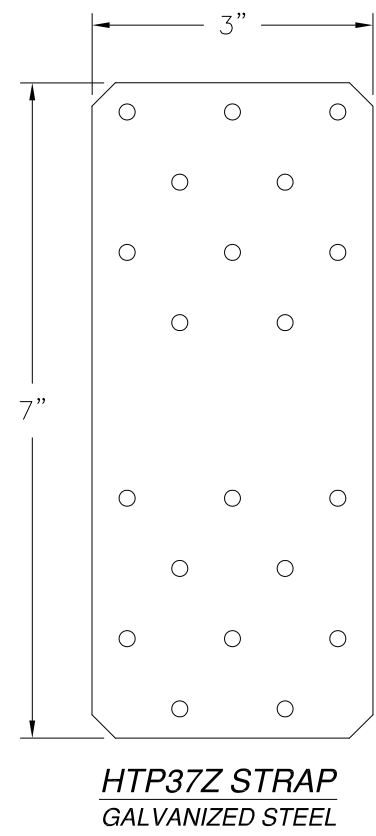
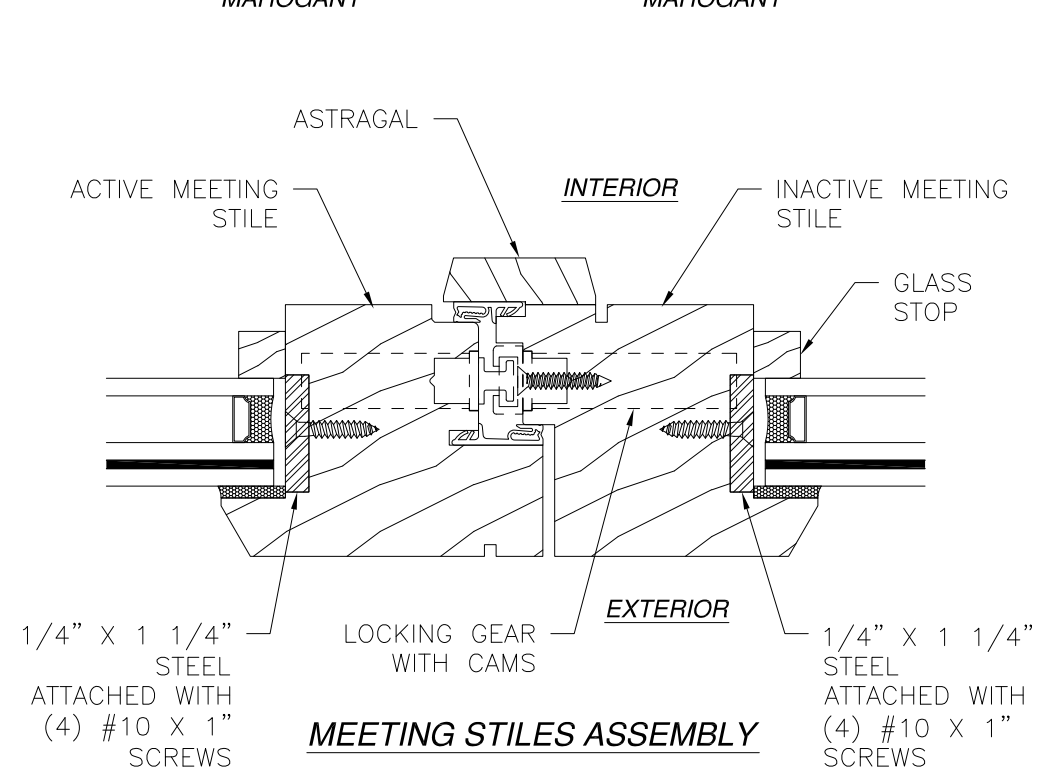
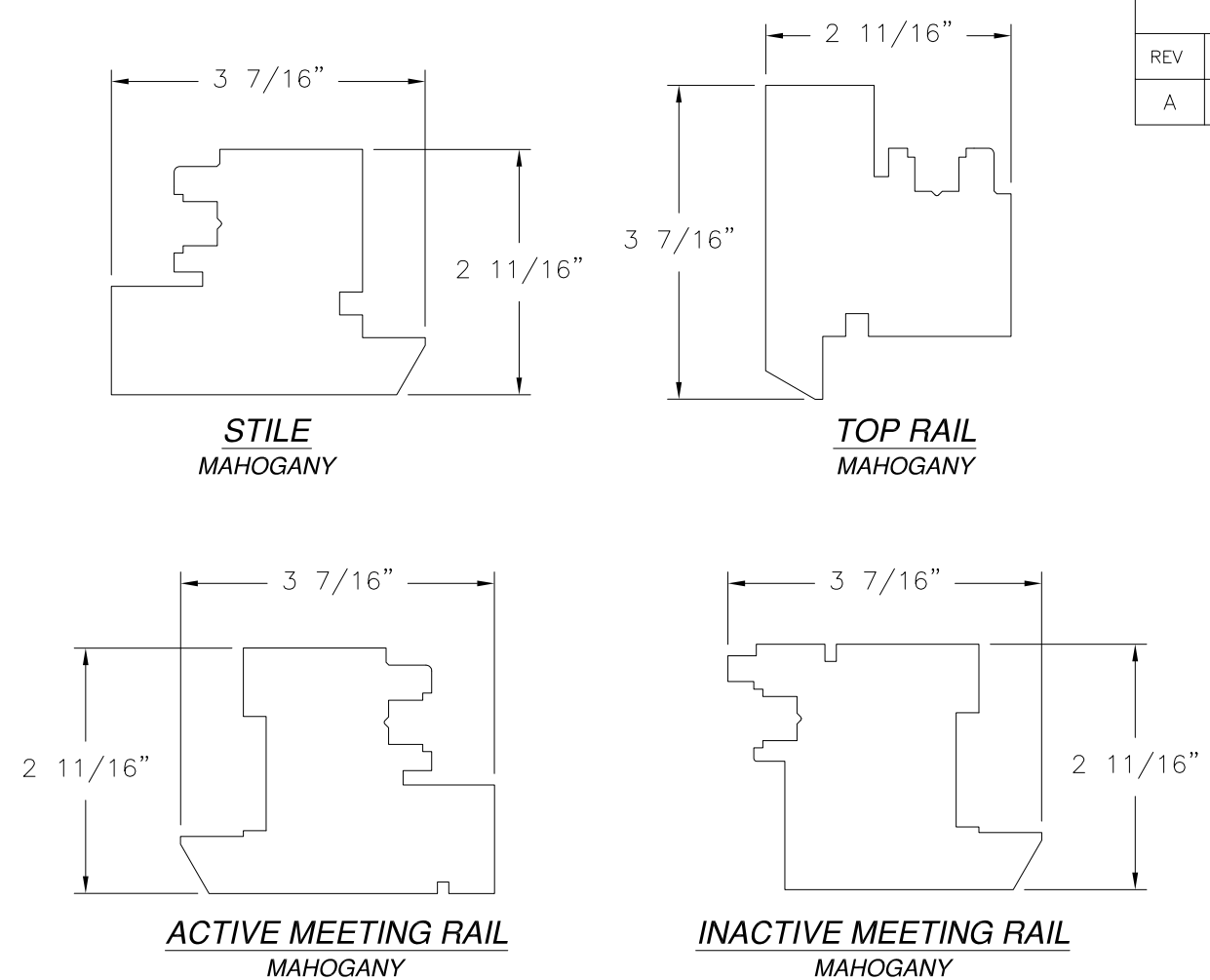
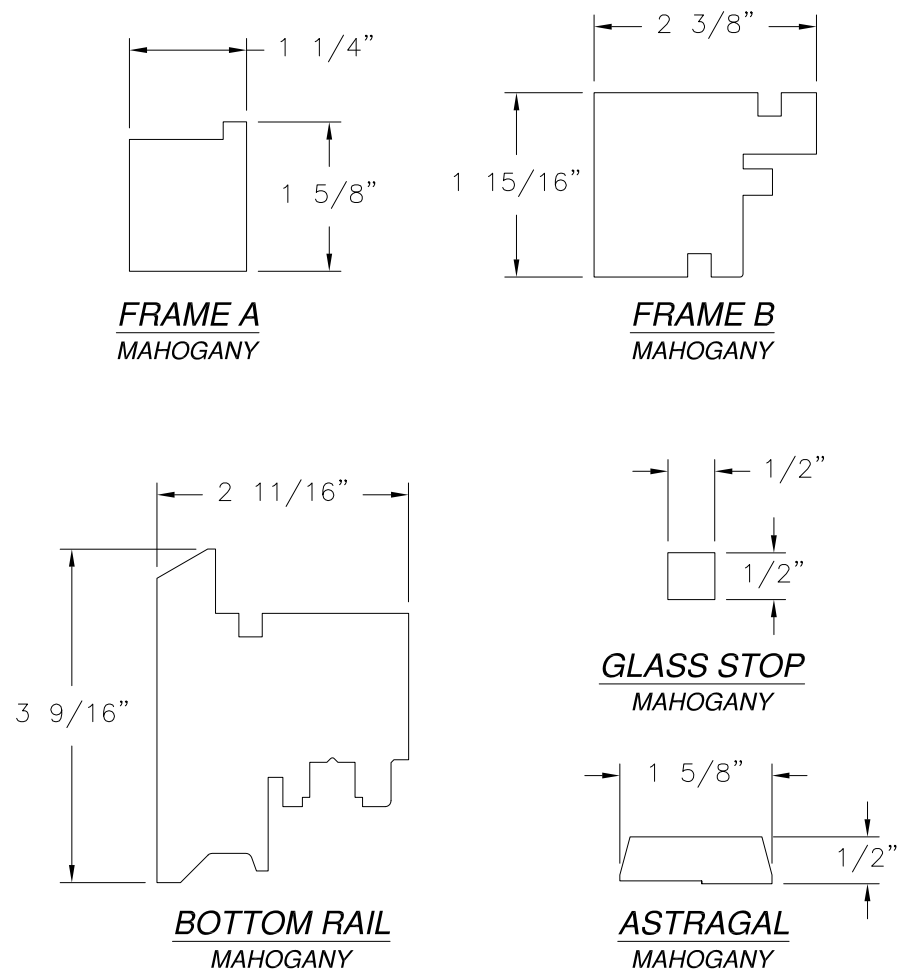
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

REVIVAL SASH 78 DIAMOND ROAD SPRINGFIELD, NJ 07081		
2200 OUTSWING WOOD TWIN CASEMENT WINDOW IMPACT HVHZ INSTALLATION DETAILS WITH ANGLE		
DRAWN: R.L.	DWG NO. 08-03495	REV A
SCALE NTS	DATE 10/03/2019	SHEET 13 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 02/05/2020



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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED MONOLITHIC GLASS	01/22/2020	R.L.

REVIVAL SASH
78 DIAMOND ROAD
SPRINGFIELD, NJ 07081

2200 OUTSWING WOOD TWIN CASEMENT WINDOW
IMPACT HVHZ
COMPONENTS AND GLAZING DETAILS

DRAWN: R.L.	DWG NO. 08-03495	REV A
SCALE NTS	DATE 10/03/2019	SHEET 14 OF 14

L. ROBERTO LOMAS P.E.
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SIGNED: 02/05/2020

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