

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISE TO ADD ODL KEystone TRIM	08/21/2024	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” 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. 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 UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. 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: PAINTED WOOD PINE.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 20 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.

13. FOR ANCHORING THROUGH FRAME 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 THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME 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.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. 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:
- 17.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
- 17.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- 17.3. MASONRY: GROUT/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
- 17.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI .048” THICK MINIMUM

SIGNED: 08/27/2024

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PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

SIGNET INSWING ENTRY DOOR SYSTEM 8’0”
IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–03625

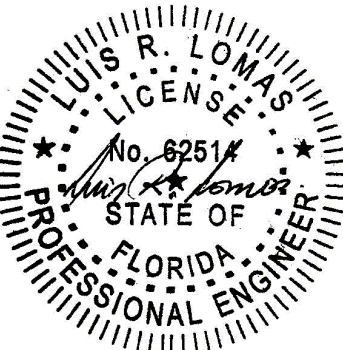
REV
D

SCALE NTS

DATE 10/14/2020

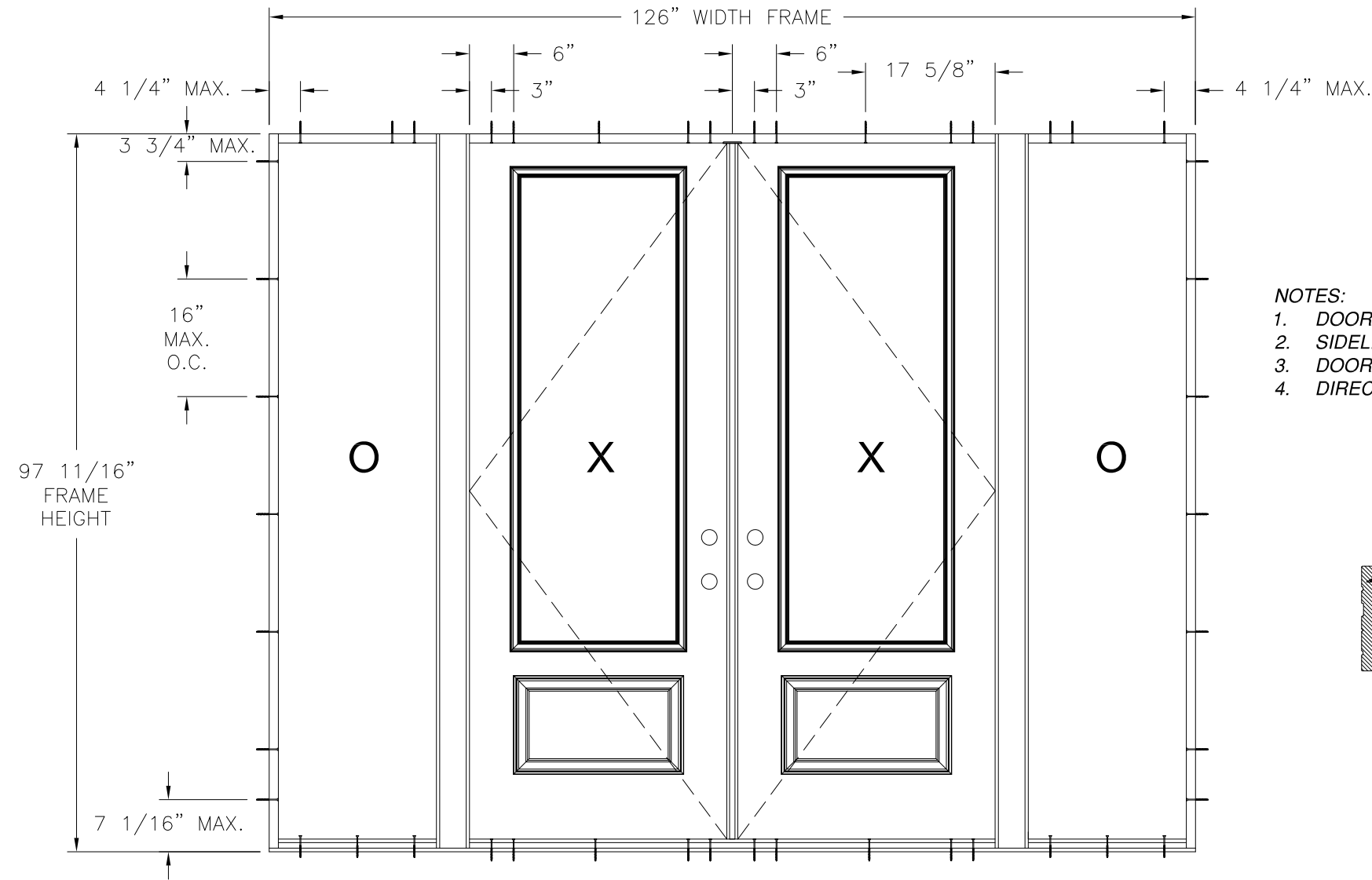
SHEET 1 OF 21

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

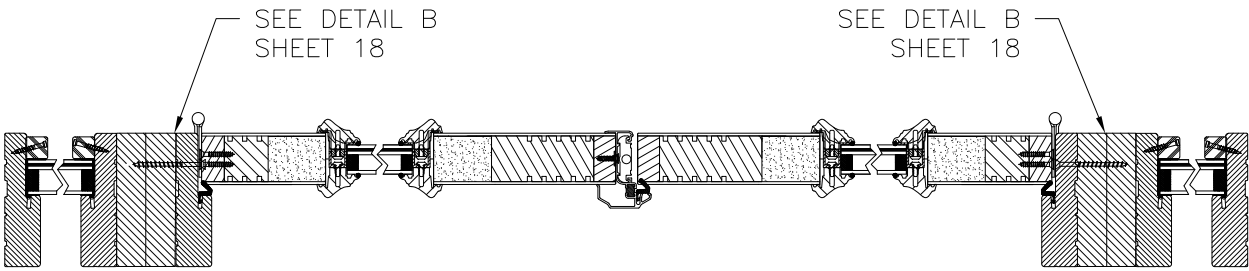


Luis R. Lomas P.E.
FL No.: 62514

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- NOTES:
- DOOR PANEL SIZE: 35 3/4" X 95"
 - SIDELITE PANEL SIZE: 15 7/8" X 95"
 - DOOR PANEL D.L.O.: 21 1/8" X 63 1/16"
 - DIRECT SET SIDELITE D.L.O.: 21 1/8" X 93 1/2"



HORIZONTAL CROSS SECTION

SIGNET IS DOOR WITH DIRECT SET SIDELITES
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
$\pm 50.0 \text{ PSF}$	LARGE AND SMALL MISSILE IMPACT
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE THE WATER REQUIREMENT IS NOT NEEDED	

MISSILE LEVEL D, WIND ZONE 3

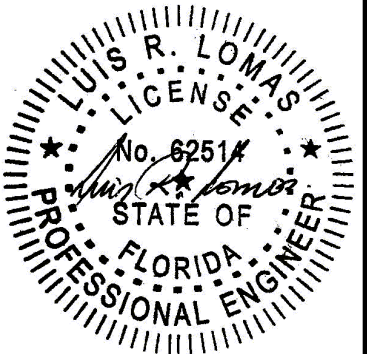
35 3/4" X 95" PANEL SHOWN. OTHER SIZES ARE APPROVED AS LONG AS
INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.58 FT²

HARDWARE SCHEDULE

A.	(1) KEYED DOORKNOB LOCKING ASSEMBLY AT ACTIVE LEAF, STRIKE RAIL 35" (LEVER) AND 41" (KEYED/THUMB TURN) UP FROM BOTTOM
B.	(1) KEYED DEADBOLT W/THUMB-TURN ASSEMBLY AT ACTIVE LEAF, STRIKE RAIL 39" UP FROM BOTTOM
C.	(8) METAL 4" BUTT HINGE AT LEAF(S), 4 PER LEAF/MULLION EVENLY SPACED WITH ONE 7" IN FROM THE TOP AND ONE 6" IN FROM THE BOTTOM OF LEAF
D.	(1) METAL SECURITY PLATE (12") W/METAL STRIKE PLATE AT HEAD, CENTER SPAN (ASTRAGAL THRU-BOLT LOCATION)
E.	F-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE
F.	B-SERIES DEADBOLT ASSEMBLY BY SHLAGE
G.	F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE
H.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE)
I.	MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE)
J.	PANOLOCK MULTI-POINT LOCK ASSEMBLY (ALTERNATE)

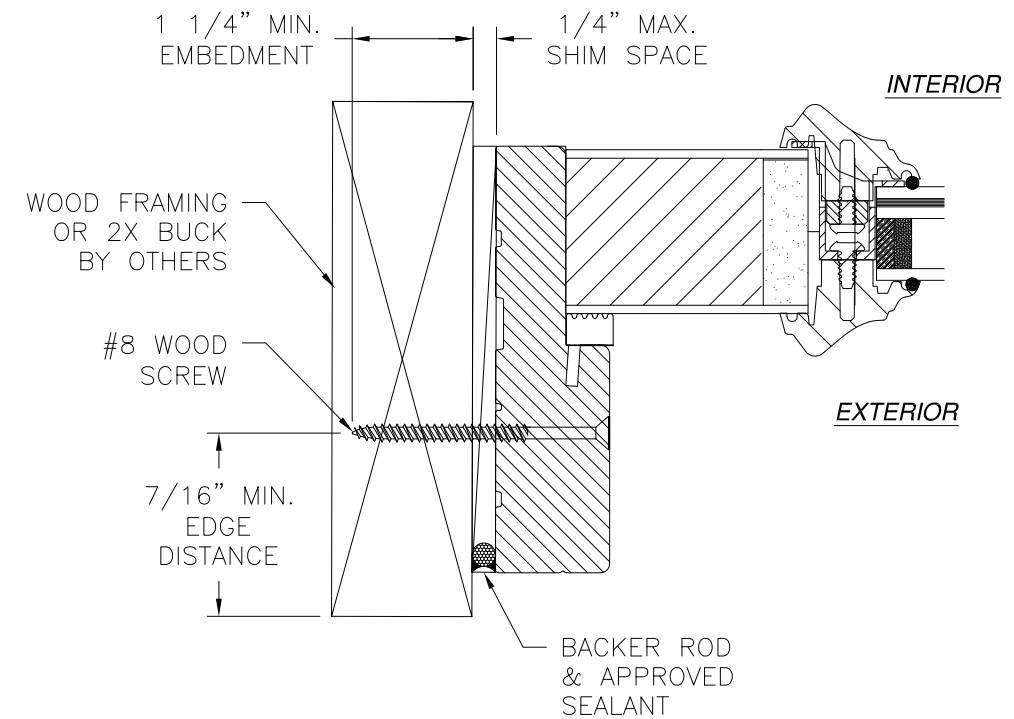
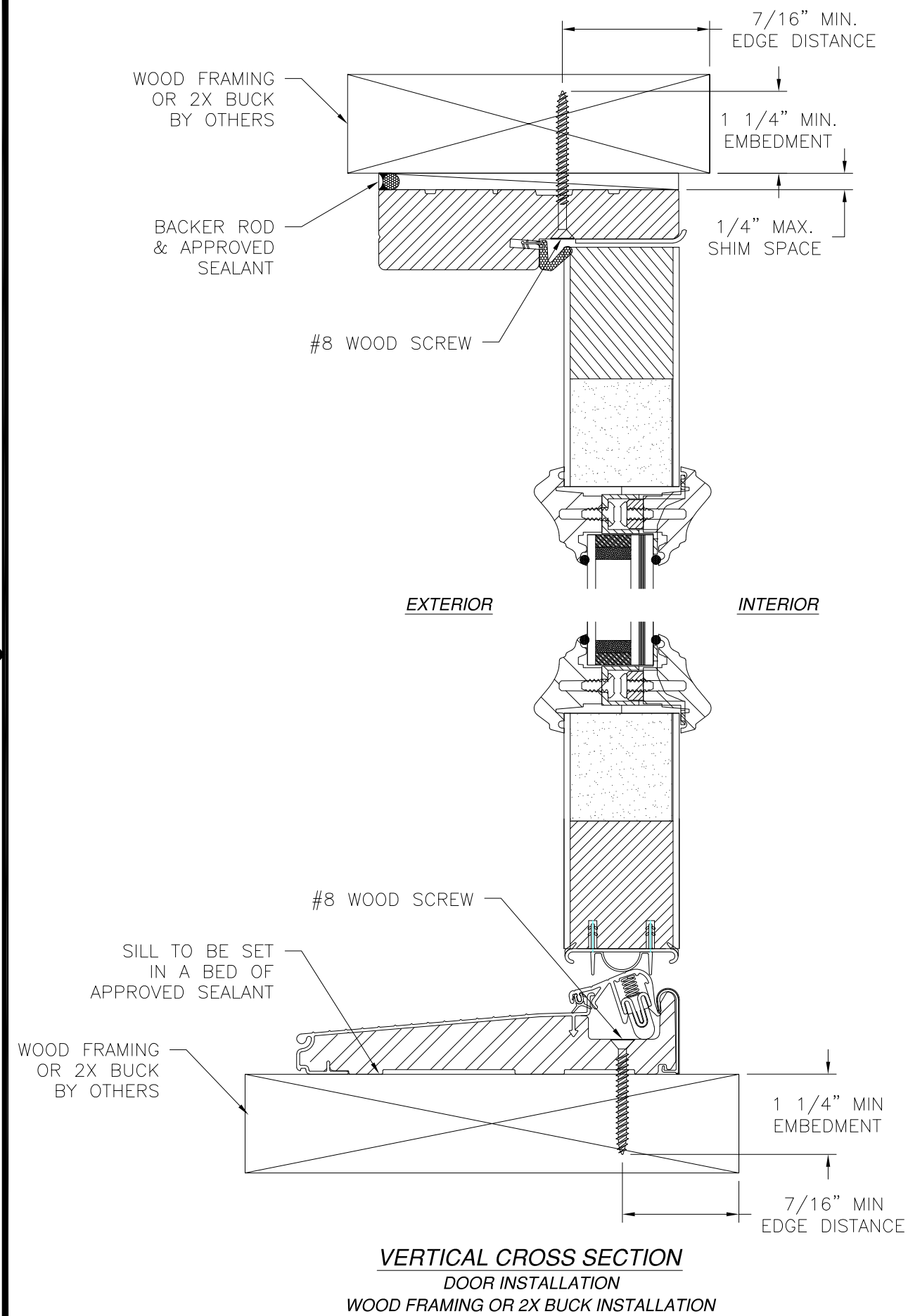
PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
SIGNET INSWING ENTRY DOOR SYSTEM 8'0" IMPACT ELEVATION		
DRAWN: A.R.	DWG NO. 08-03625	REV D
SCALE NTS	DATE 10/14/2020	SHEET 3 OF 21
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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JAMB INSTALLATION DETAIL
DOOR INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION

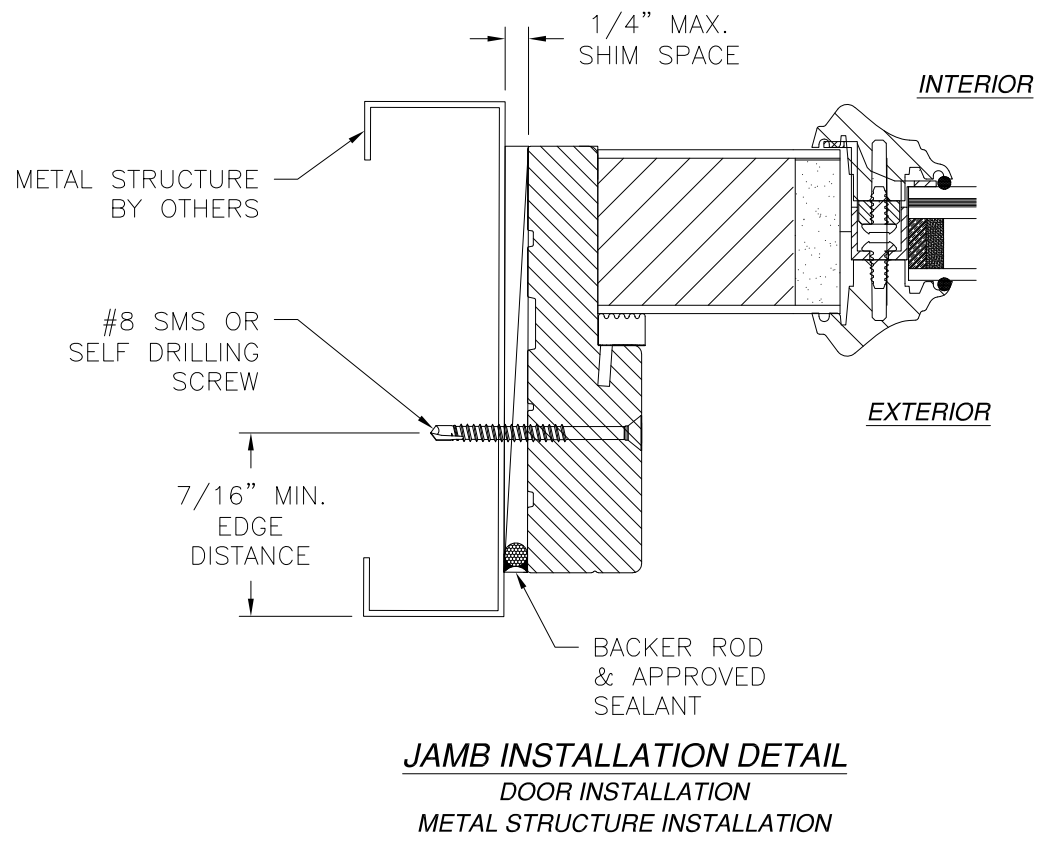
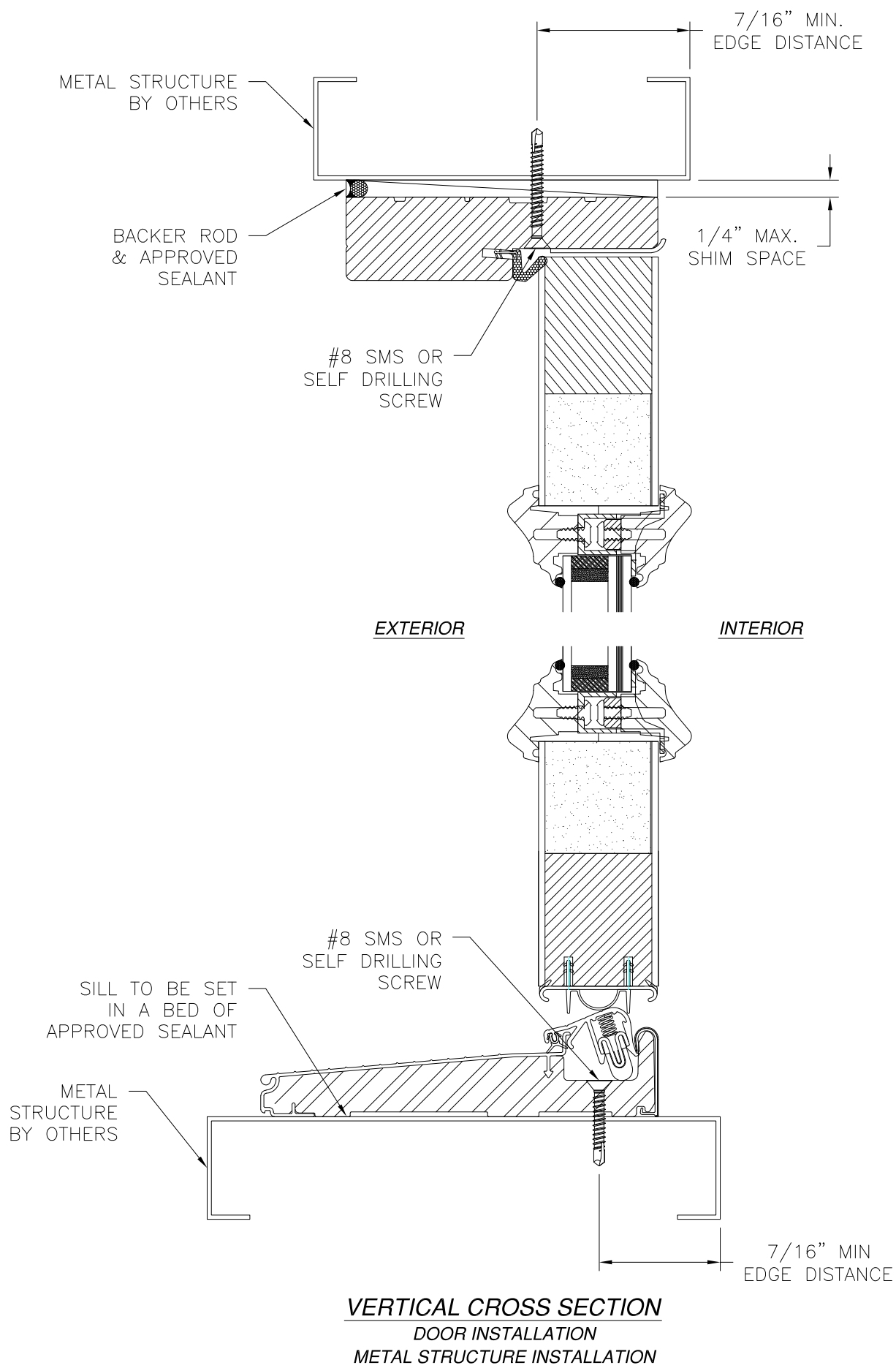
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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SIGNET INSWING ENTRY DOOR SYSTEM 8'0" IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03625	REV D
SCALE NTS	DATE 10/14/2020	SHEET 4 OF 21
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.

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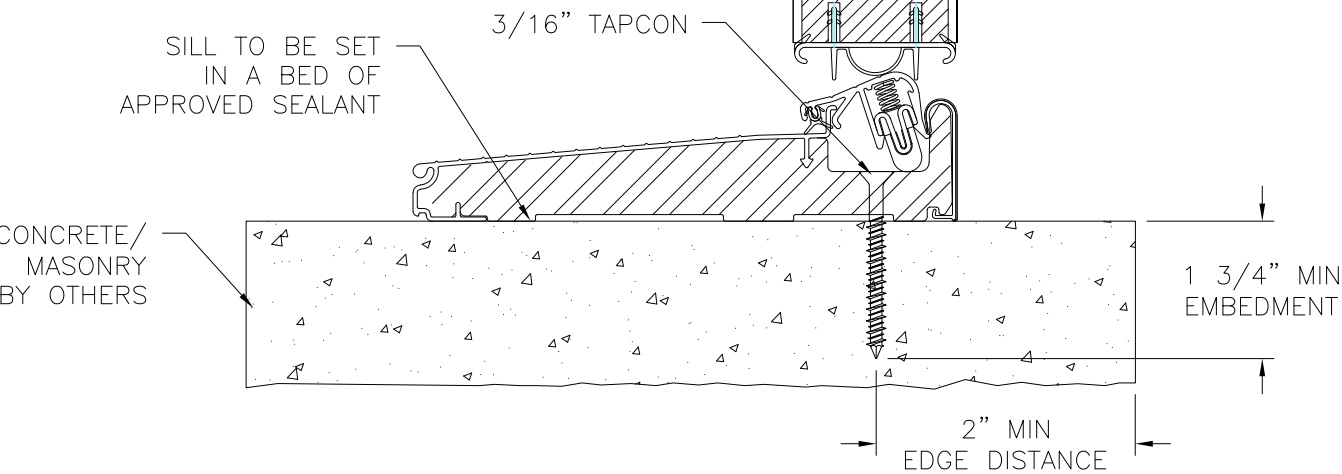
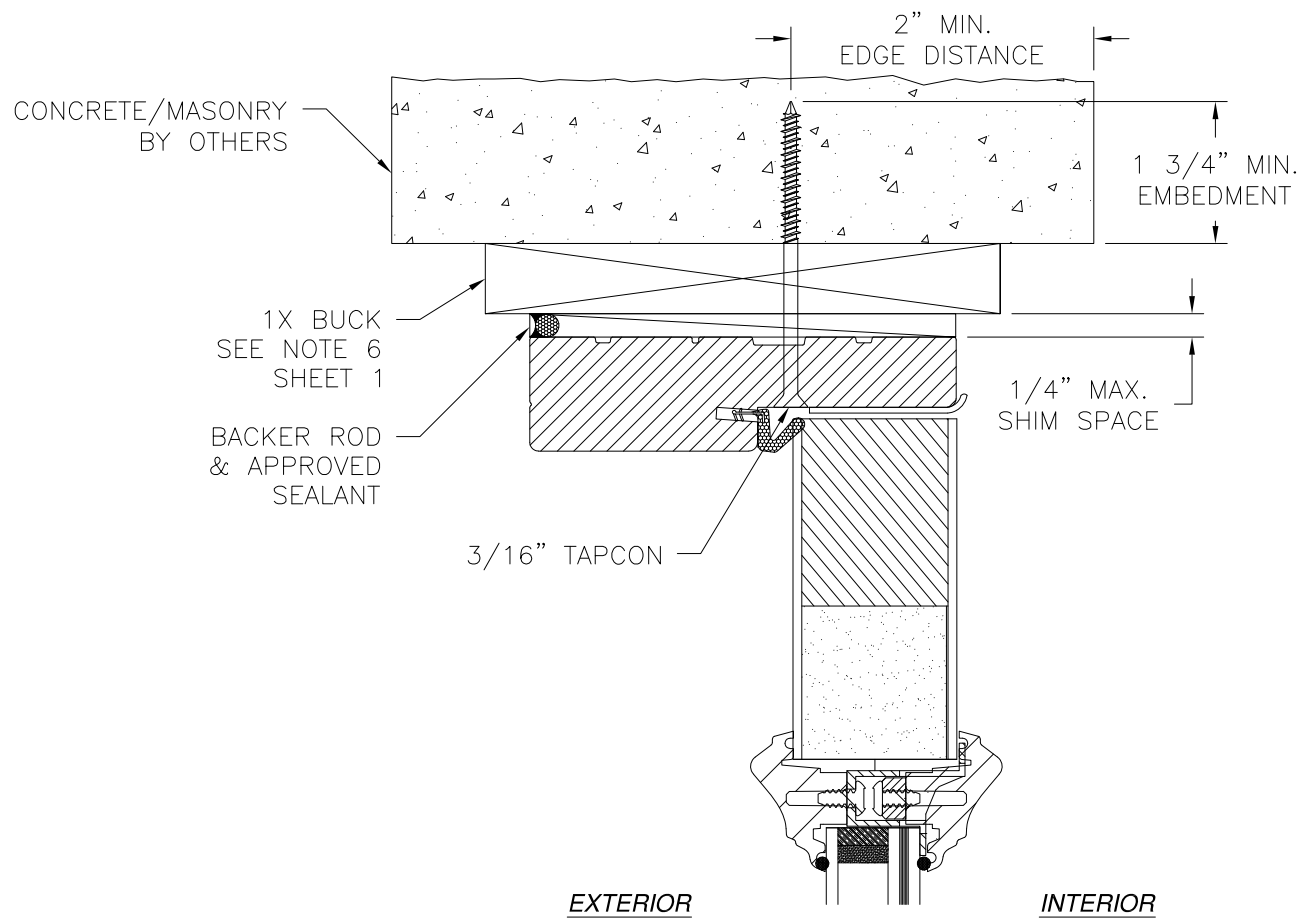
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INSTALLATION DETAILS

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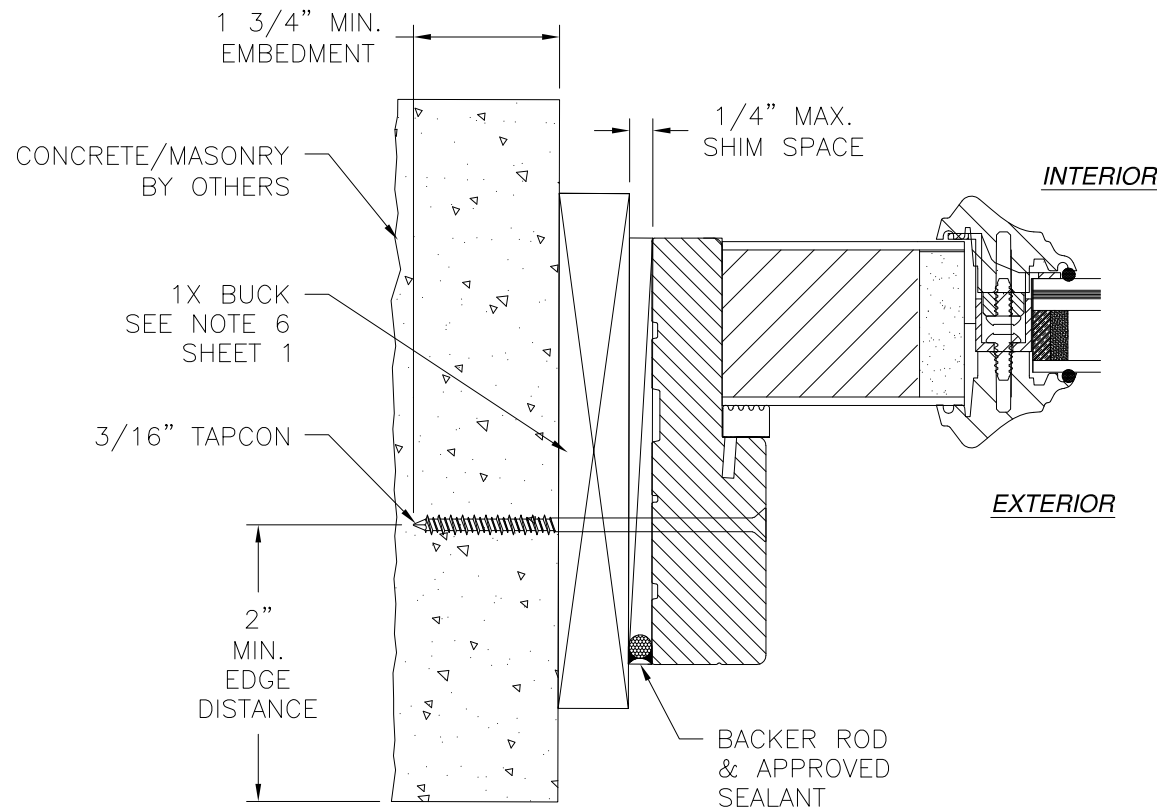
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VERTICAL CROSS SECTION
DOOR INSTALLATION
CONCRETE/MASONRY INSTALLATION



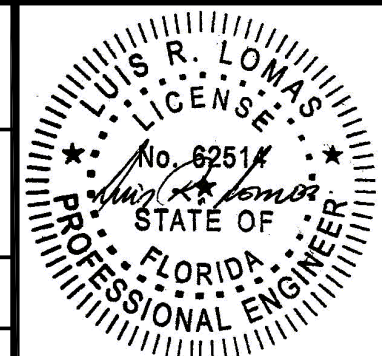
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DOOR INSTALLATION
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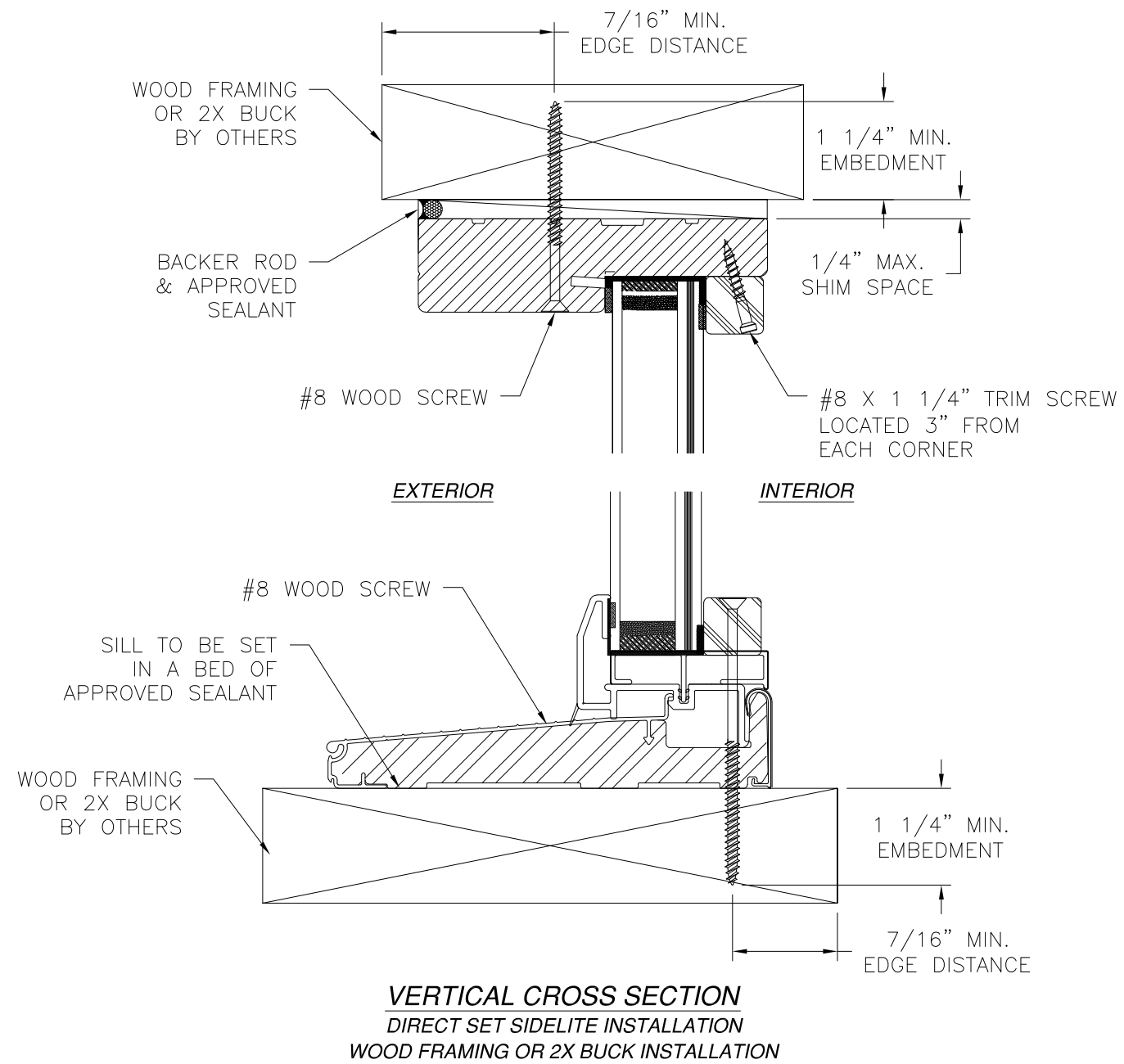
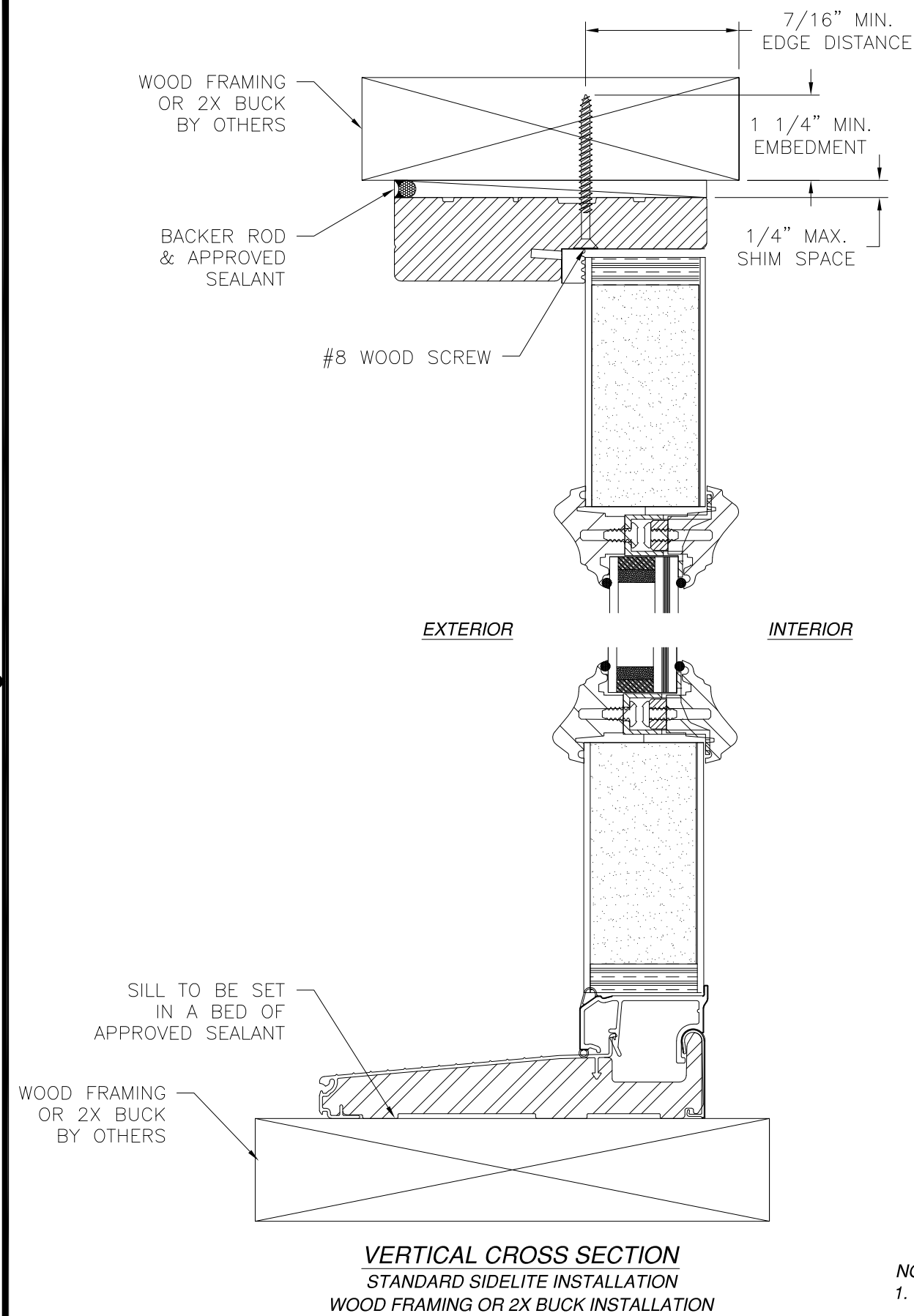
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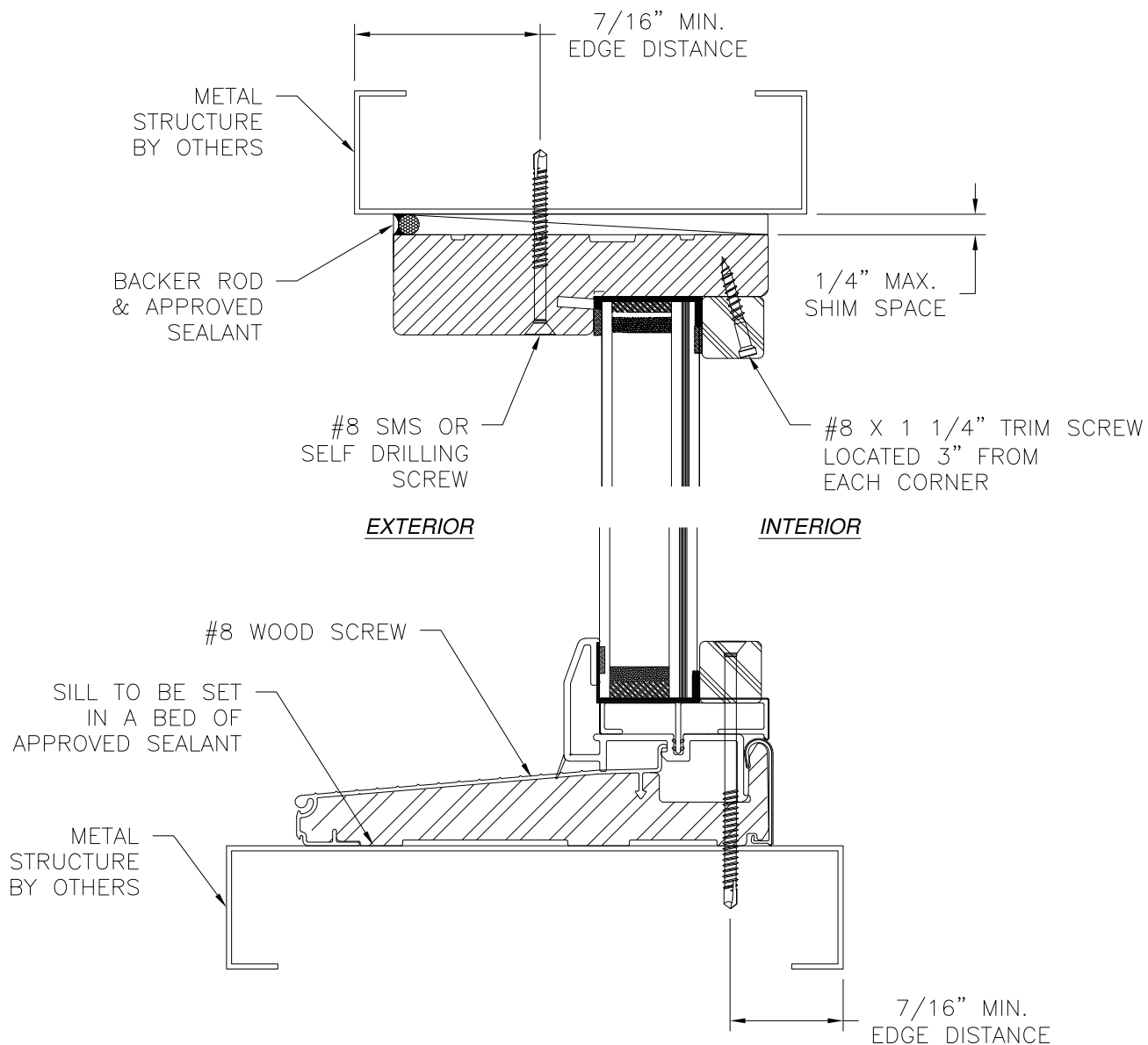
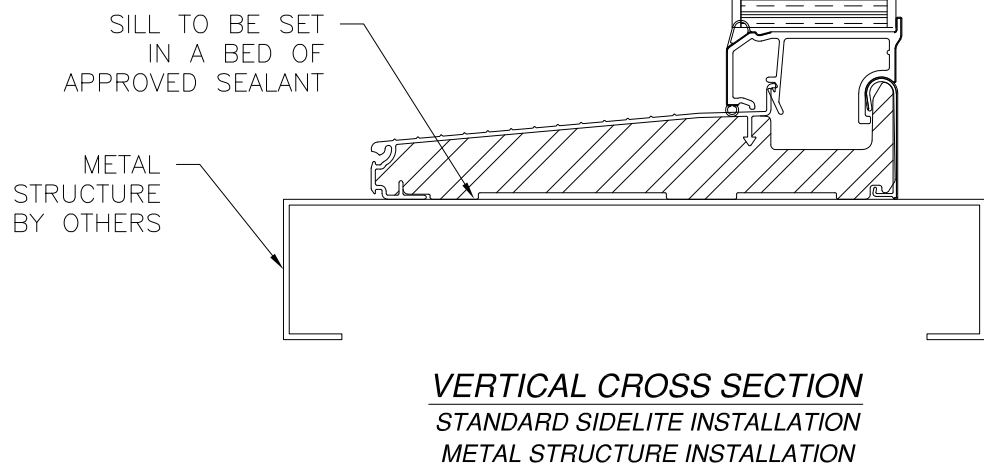
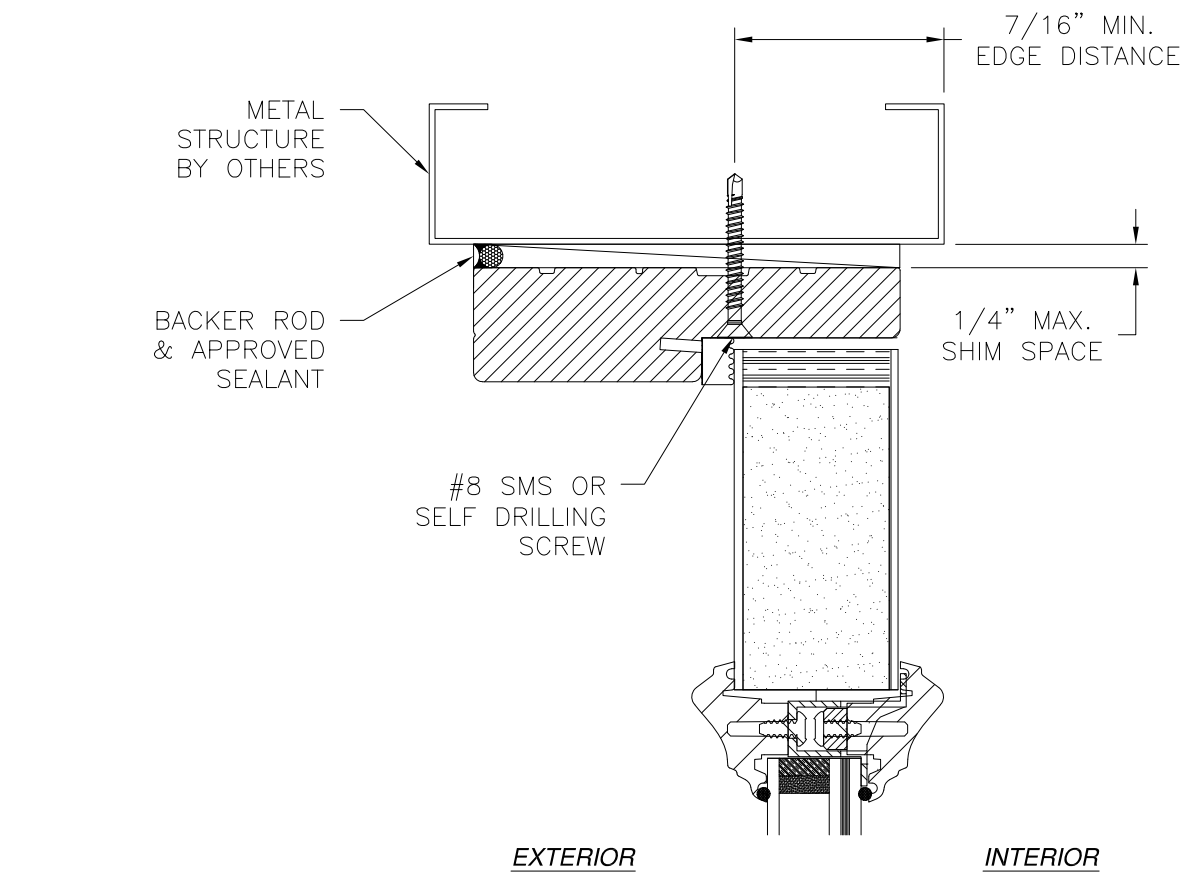
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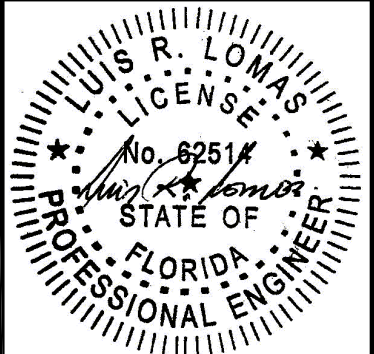
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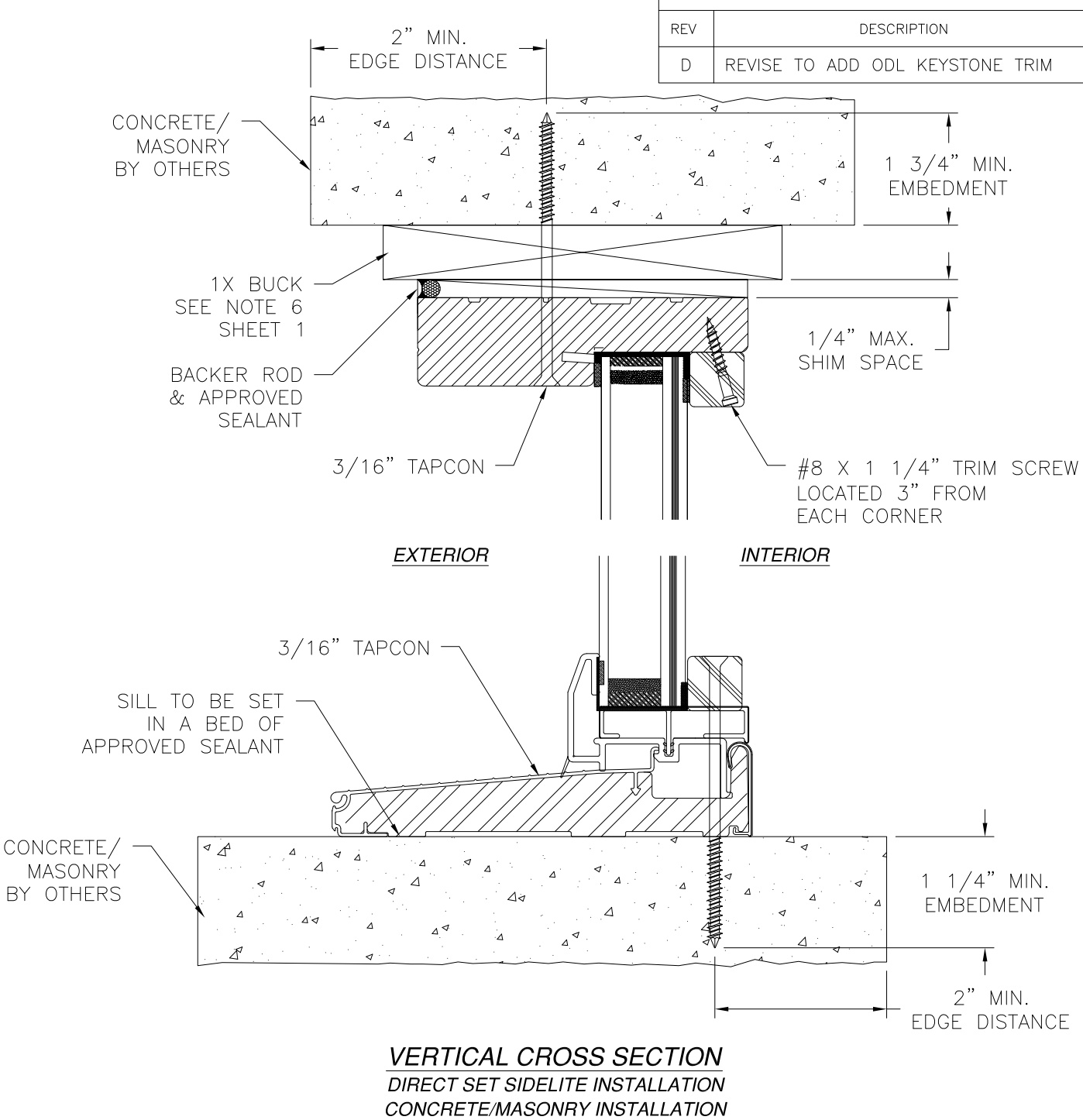
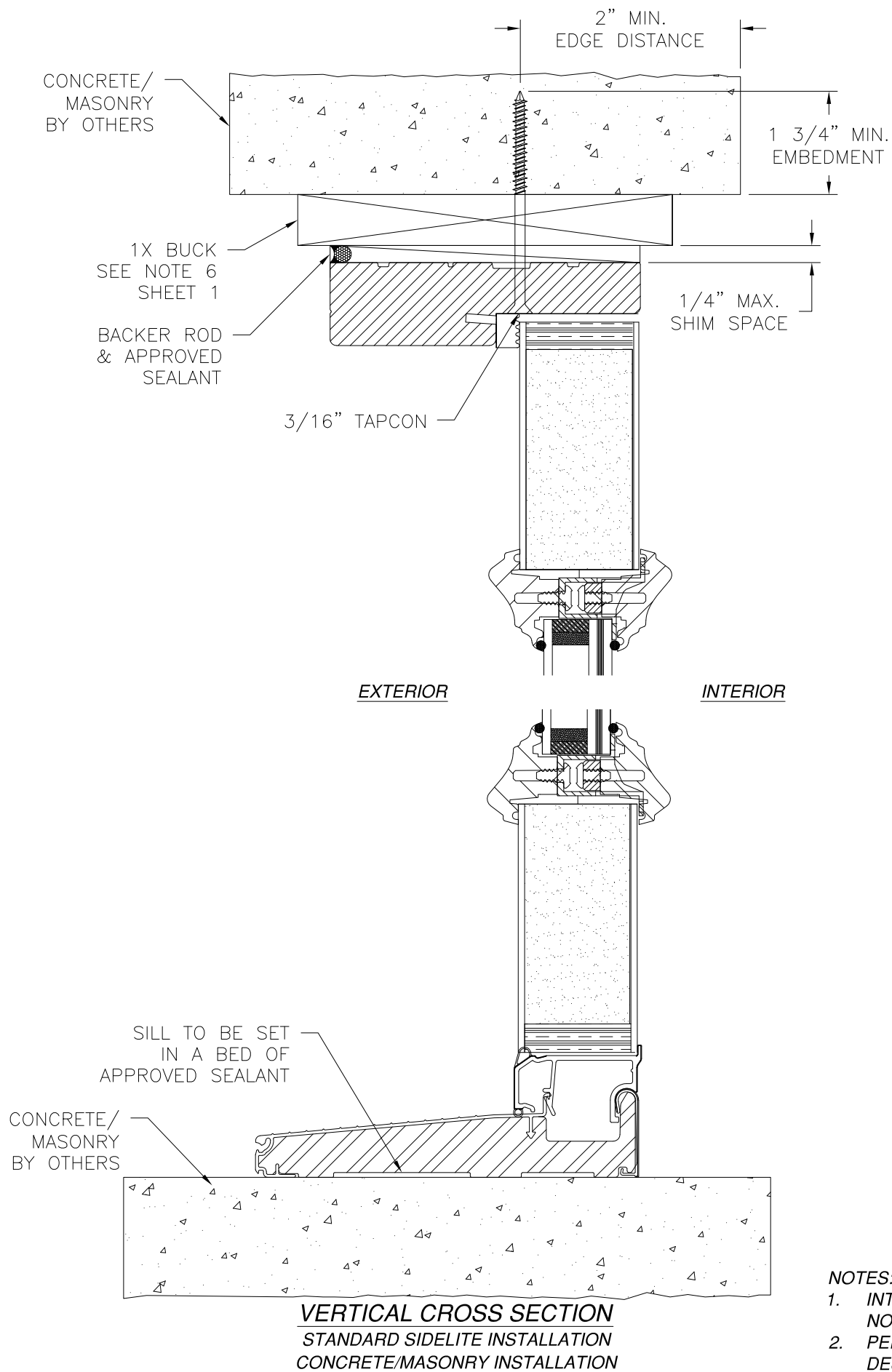
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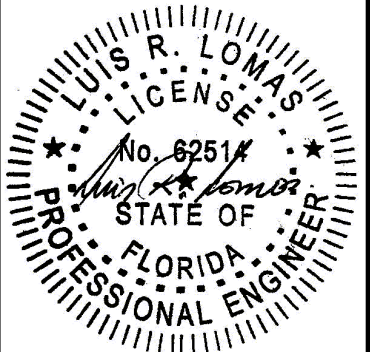
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SUGARCREEK, OH 44681

SIGNET INSWING ENTRY DOOR SYSTEM 8'0"
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INSTALLATION DETAILS

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SCALE NTS	DATE 10/14/2020	SHEET 9 OF 21

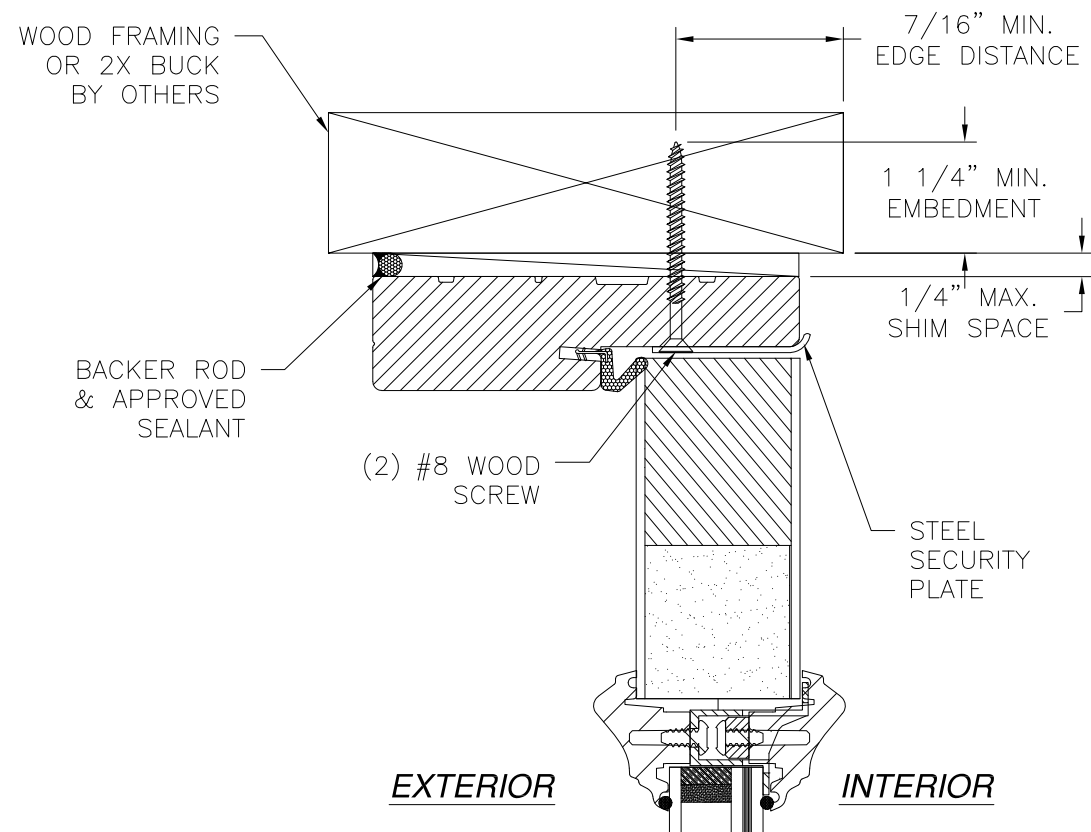
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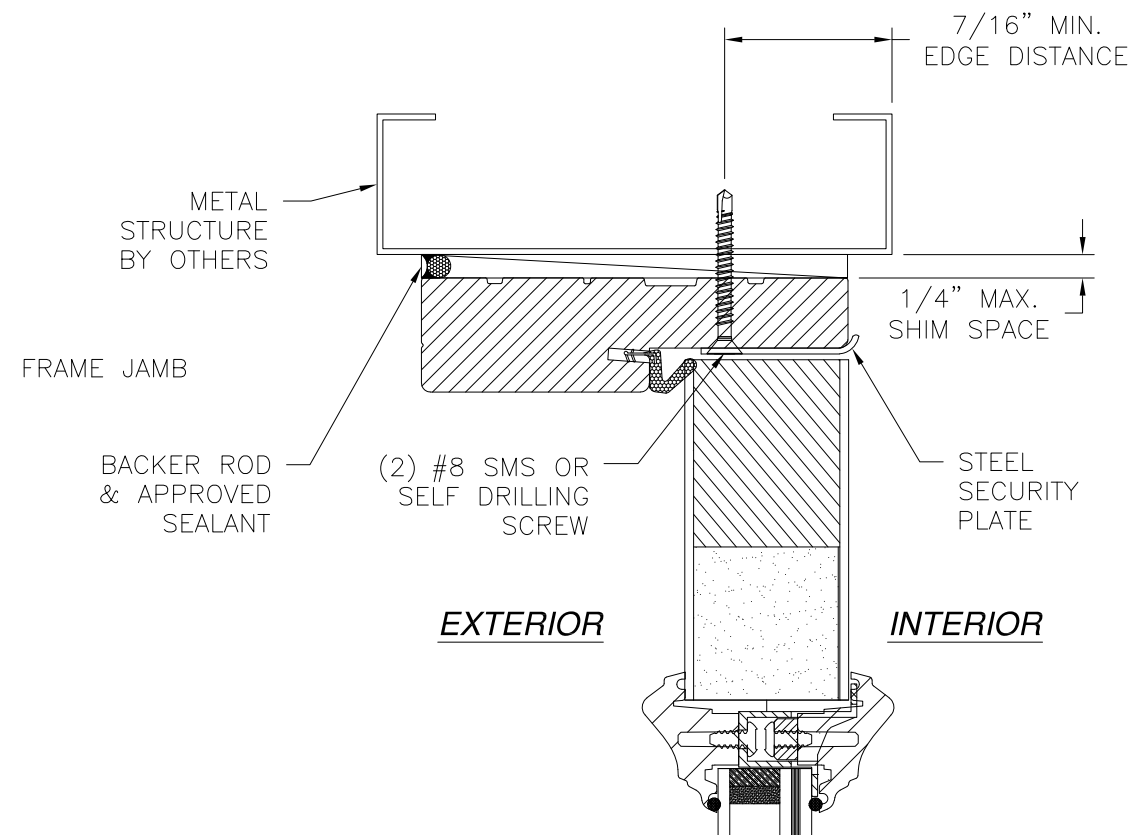


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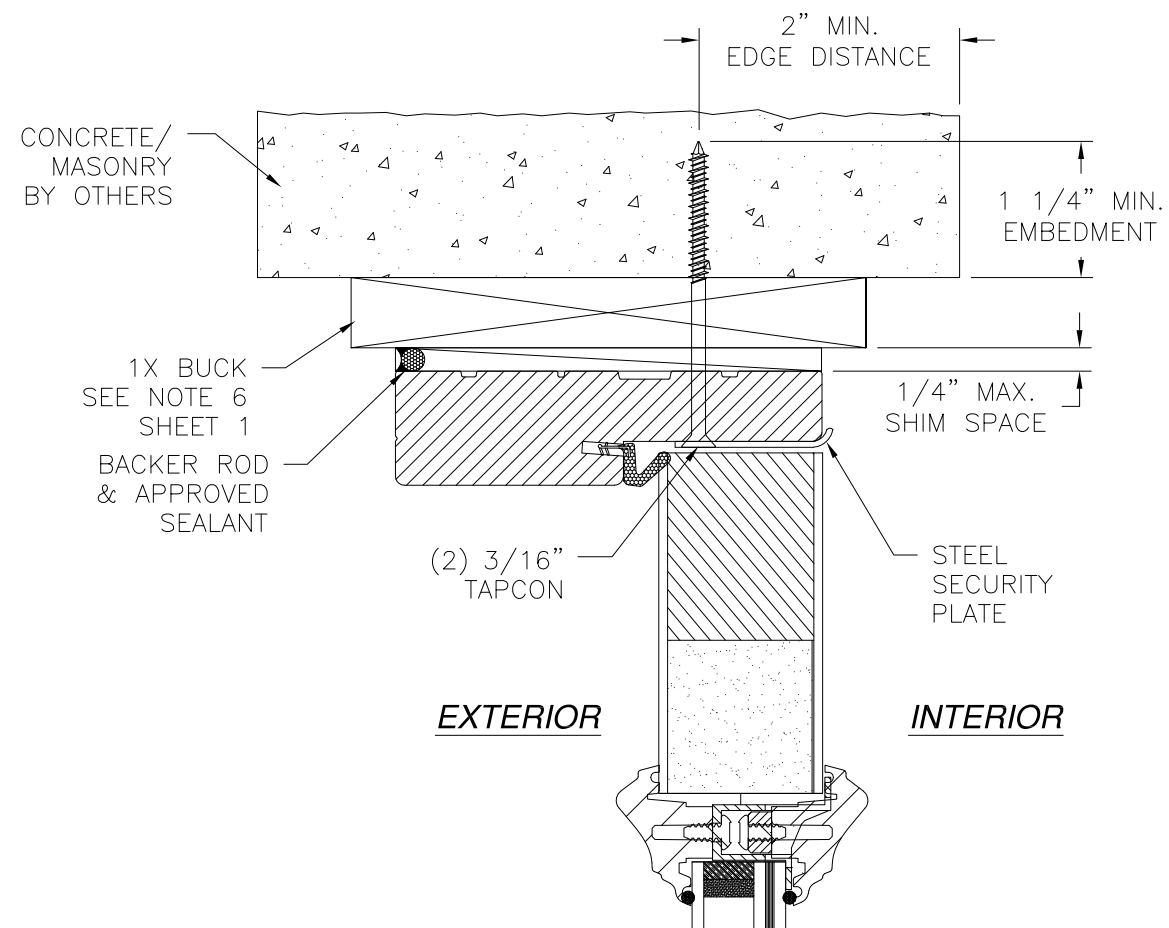
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KEEPER INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



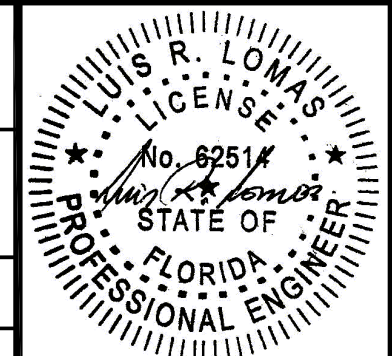
KEEPER INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



KEEPER INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

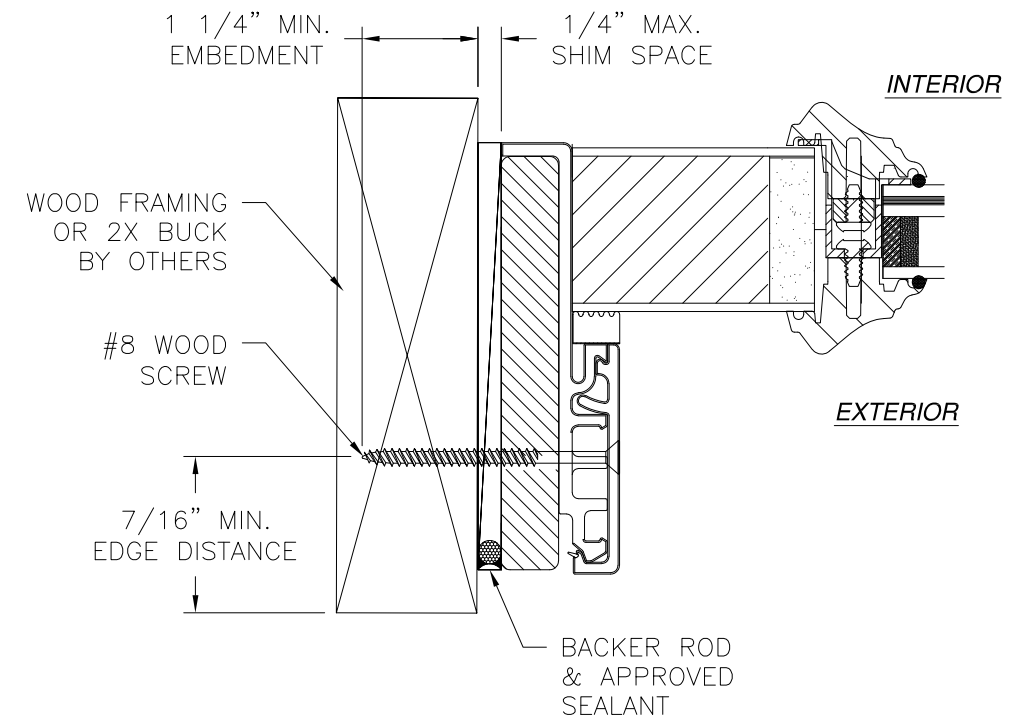
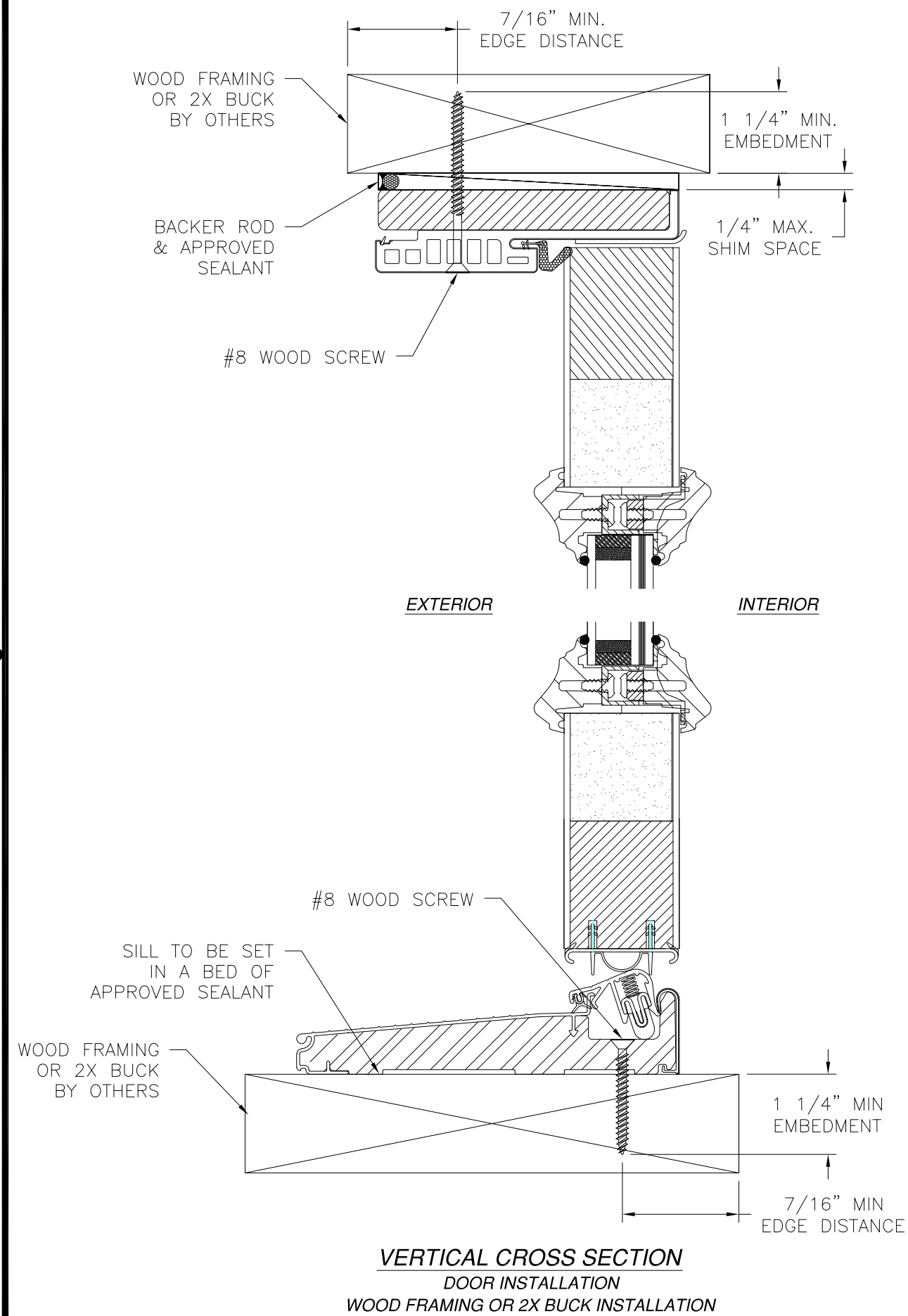
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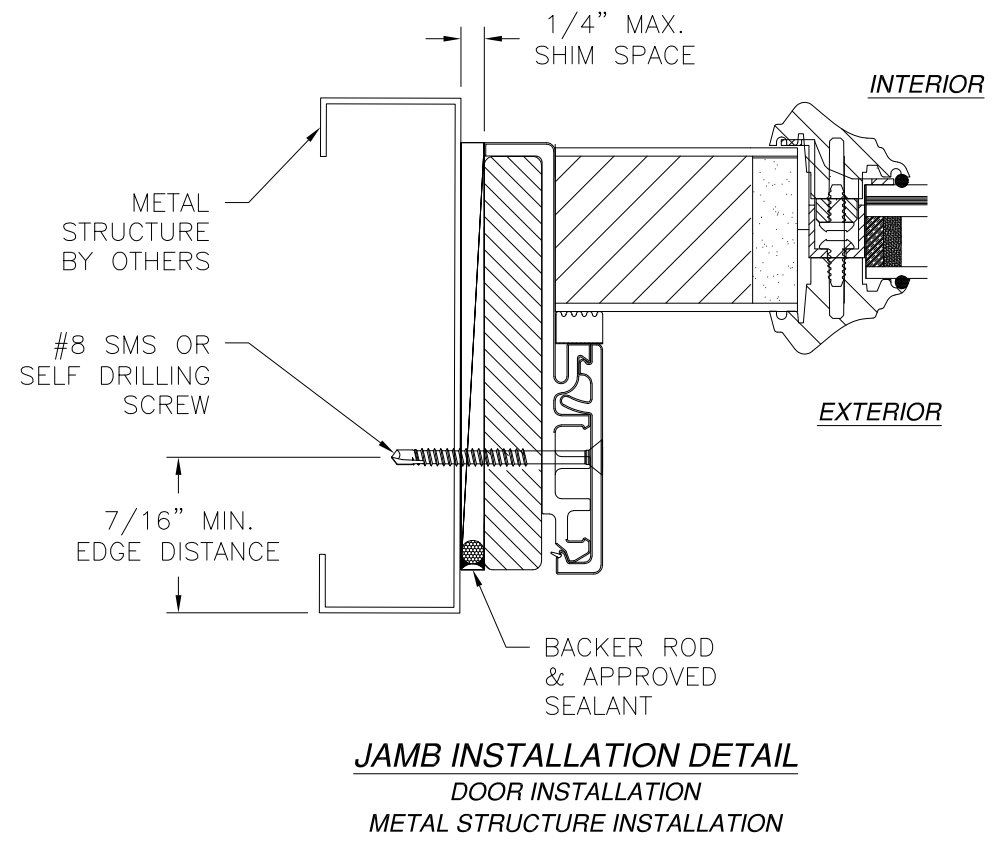
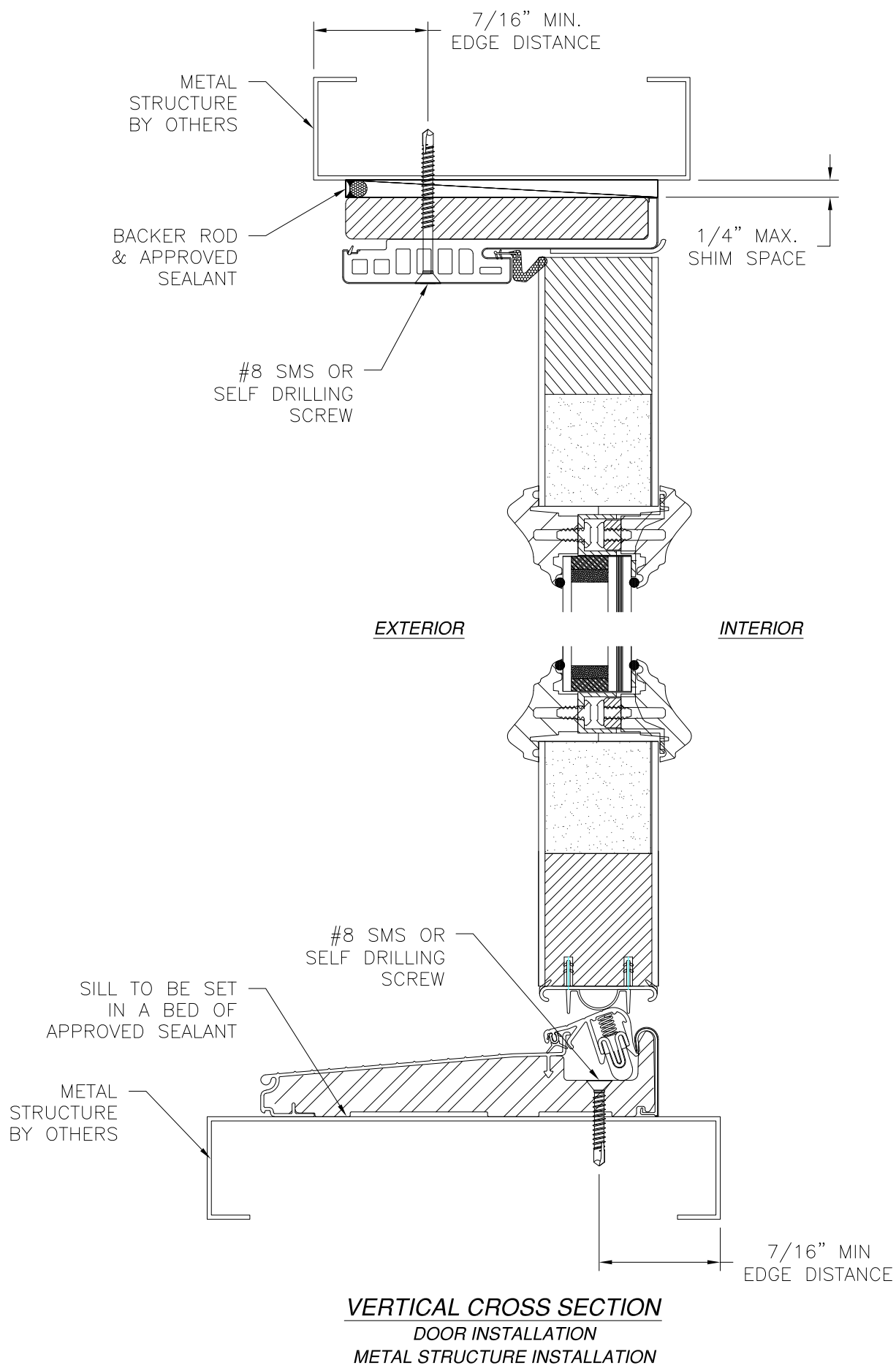
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SIGNET INSWING ENTRY DOOR SYSTEM 8'0" IMPACT INSTALLATION DETAILS W/FUSION FRAME		
DRAWN: A.R.	DWG NO. 08-03625	REV D
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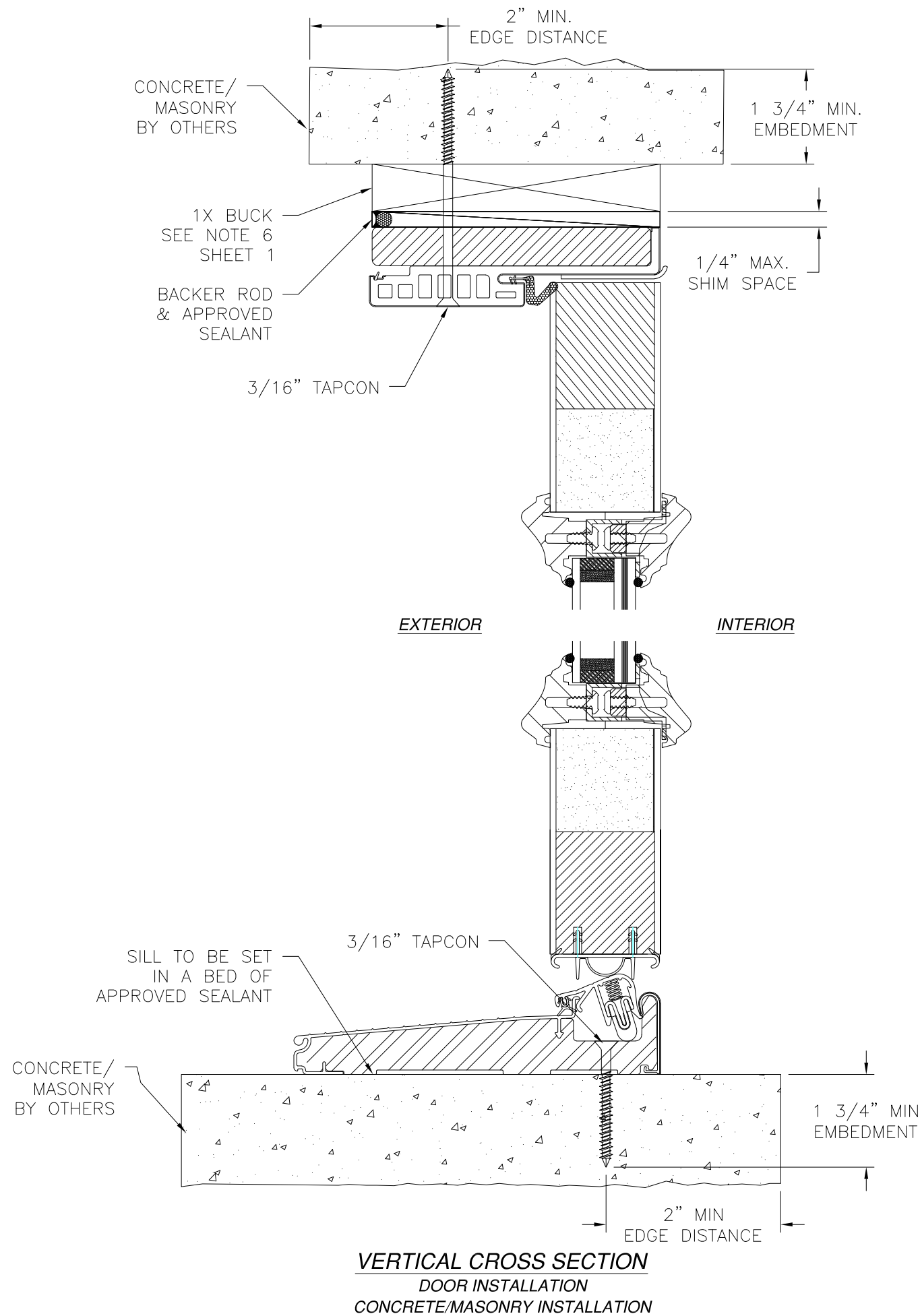
SIGNET INSWING ENTRY DOOR SYSTEM 8'0"
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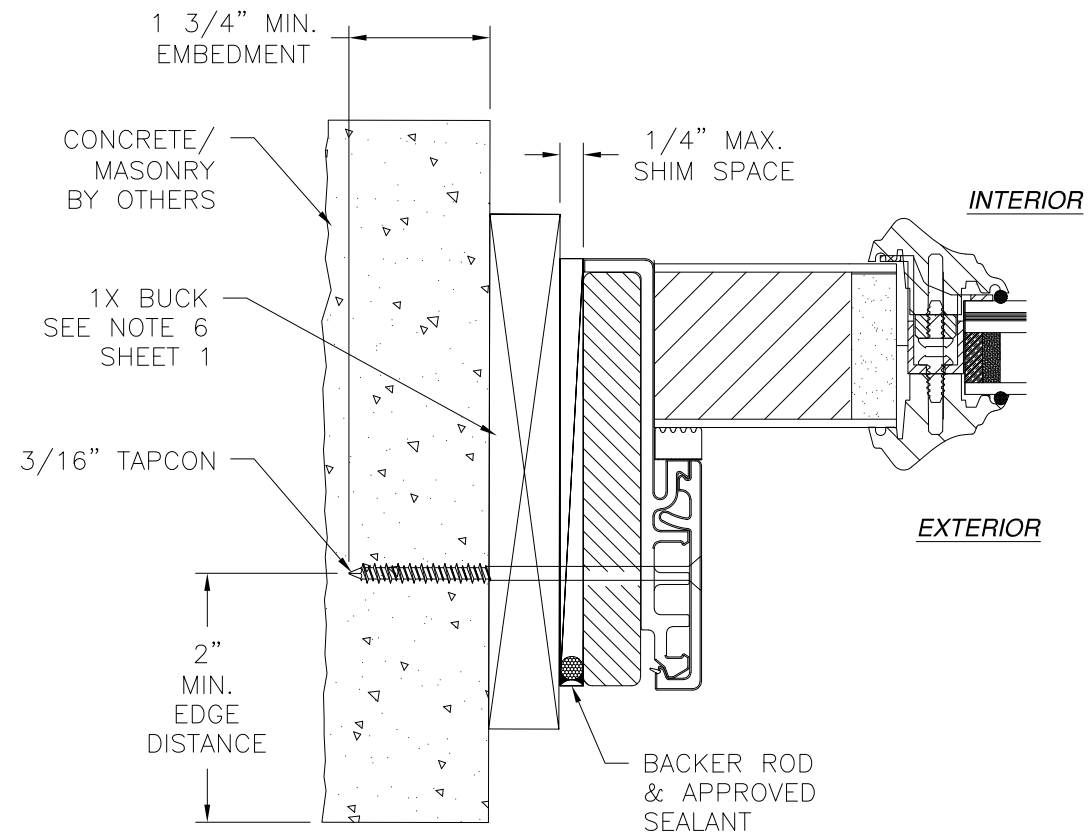
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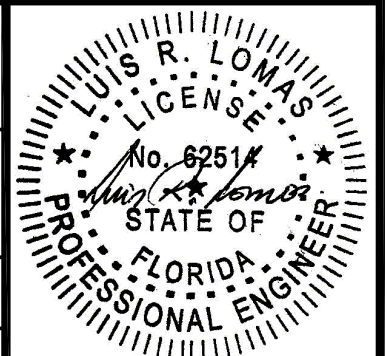
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DOOR INSTALLATION
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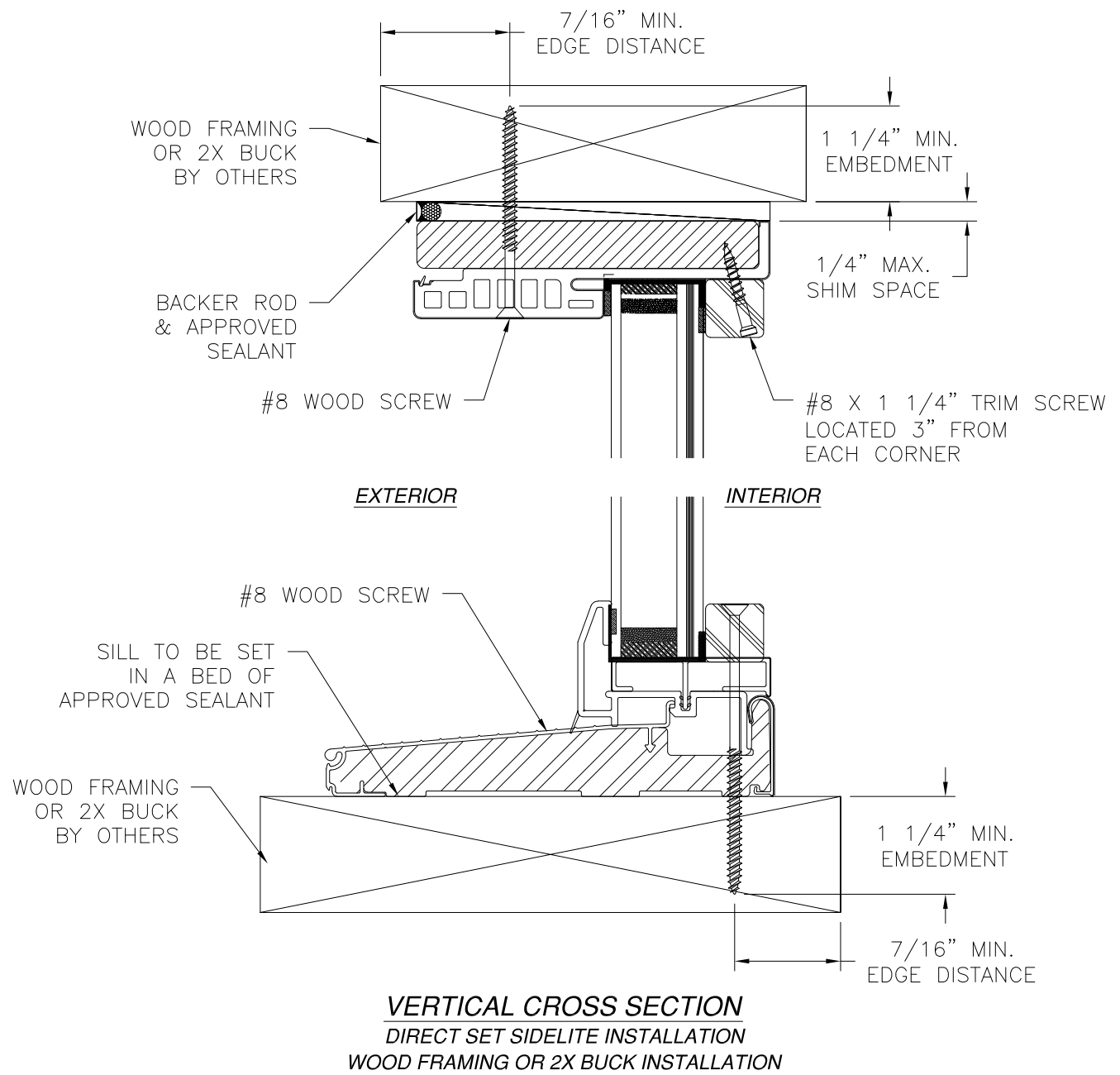
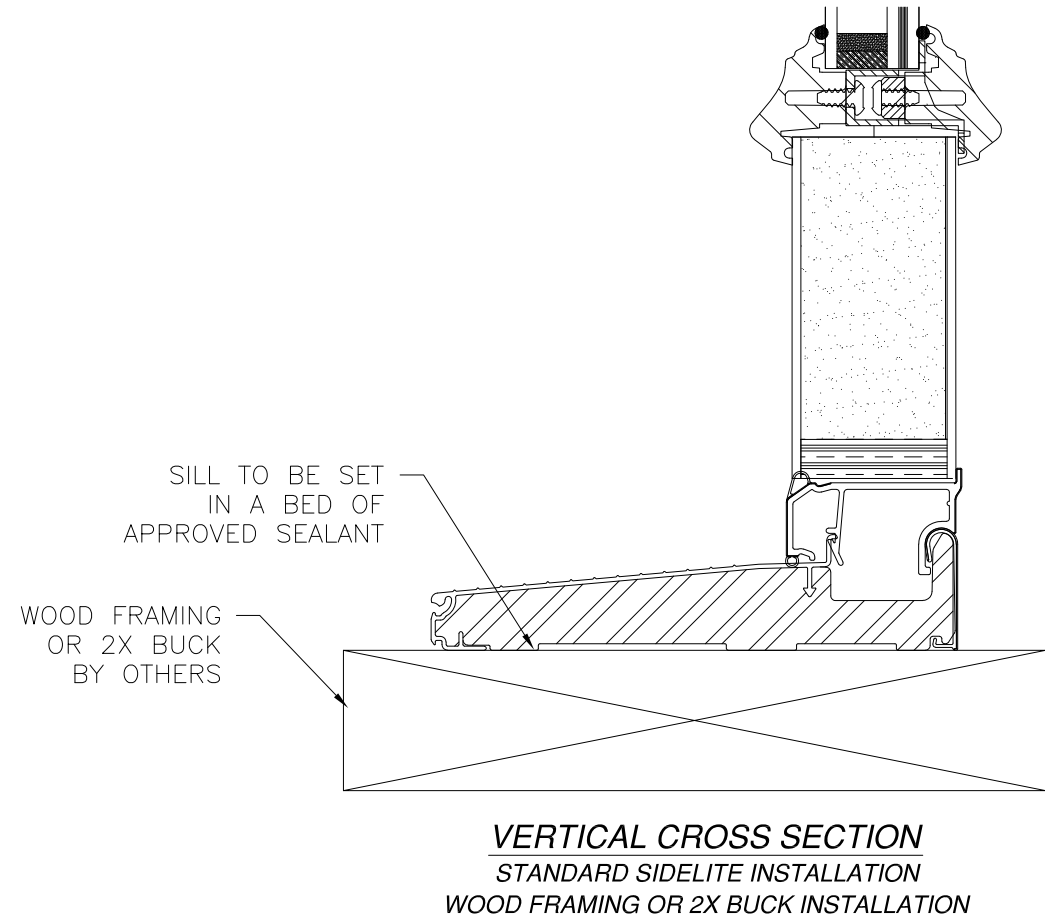
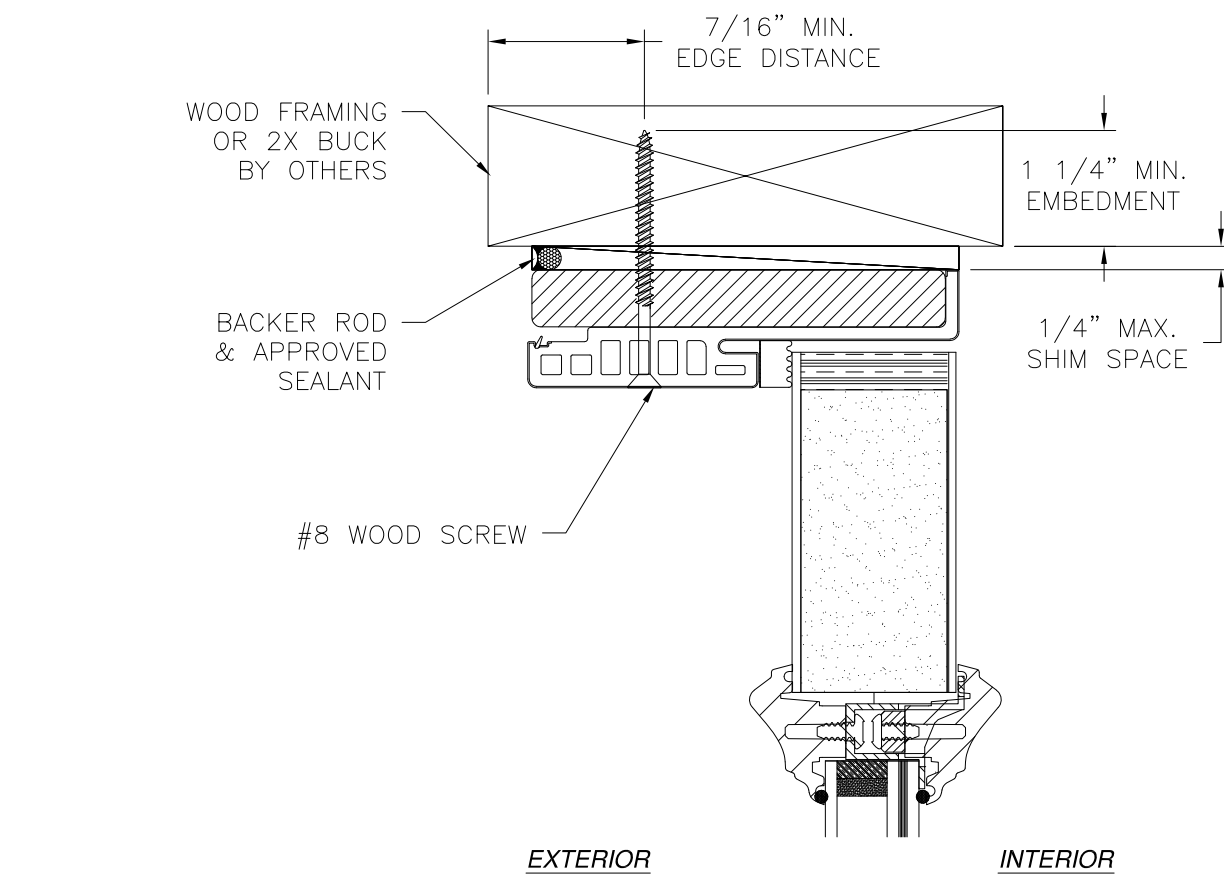
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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
SIGNET INSWING ENTRY DOOR SYSTEM 8'0" IMPACT INSTALLATION DETAILS W/FUSION FRAME		
DRAWN: A.R.	DWG NO. 08-03625	REV D
SCALE NTS	DATE 10/14/2020	SHEET 13 OF 21
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISE TO ADD ODL KEYSTONE TRIM	08/21/2024	R.L.



- 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

PROVIA, LLC.
2150 STATE ROUTE 39 WEST
SUGARCREEK, OH 44681

SIGNET INSWING ENTRY DOOR SYSTEM 8'0"
IMPACT
INSTALLATION DETAILS W/FUSION FRAME

DRAWN: A.R.	DWG NO. 08-03625	REV D
SCALE NTS	DATE 10/14/2020	SHEET 14 OF 21

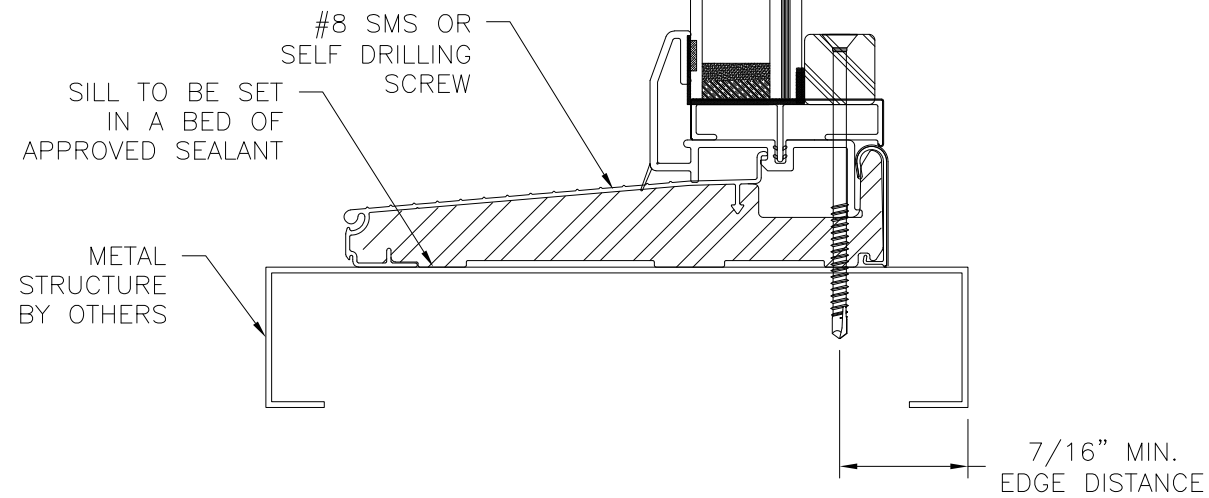
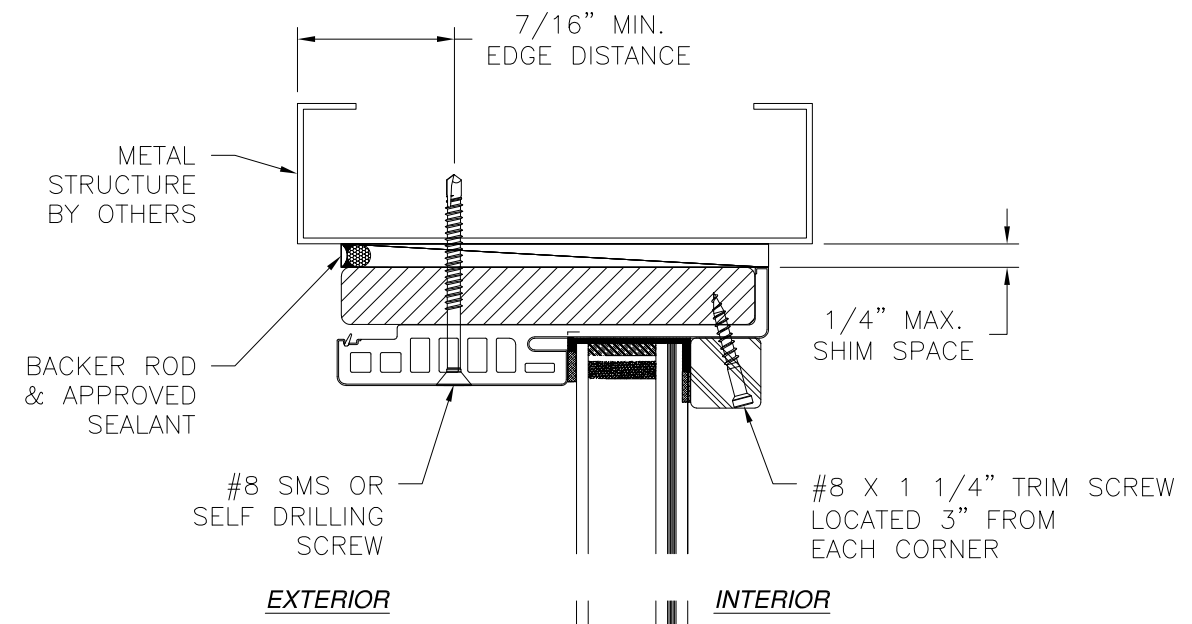
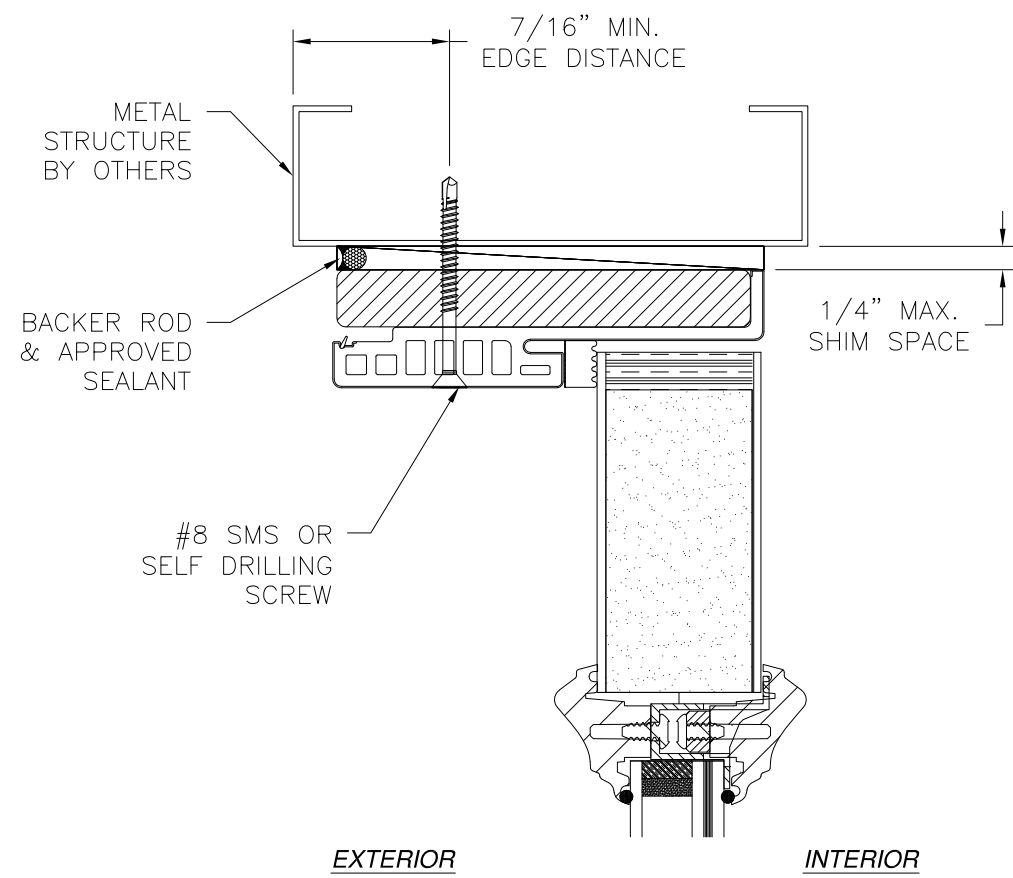
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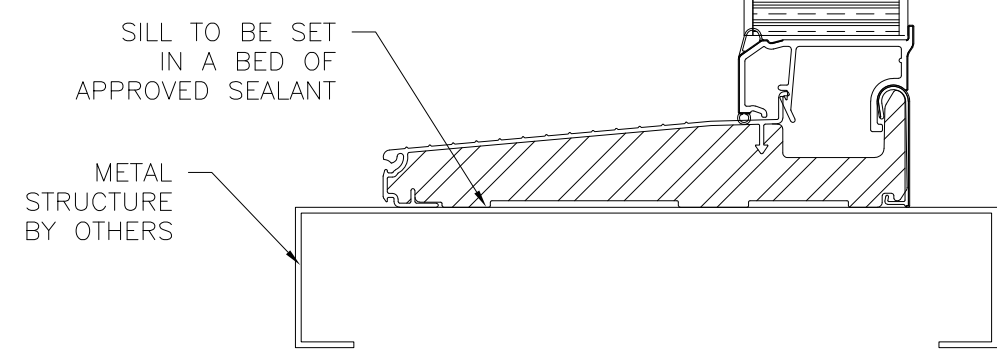
LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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REVISIONS			
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VERTICAL CROSS SECTION
DIRECT SET SIDELITE INSTALLATION
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
STANDARD SIDELITE INSTALLATION
METAL STRUCTURE INSTALLATION

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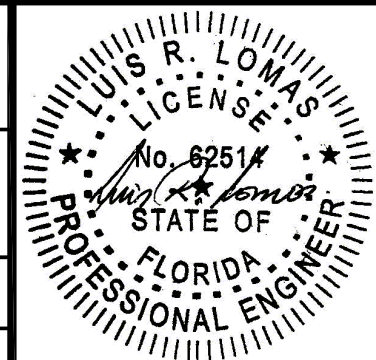
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SIGNET INSWING ENTRY DOOR SYSTEM 8'0"
IMPACT
INSTALLATION DETAILS W/FUSION FRAME

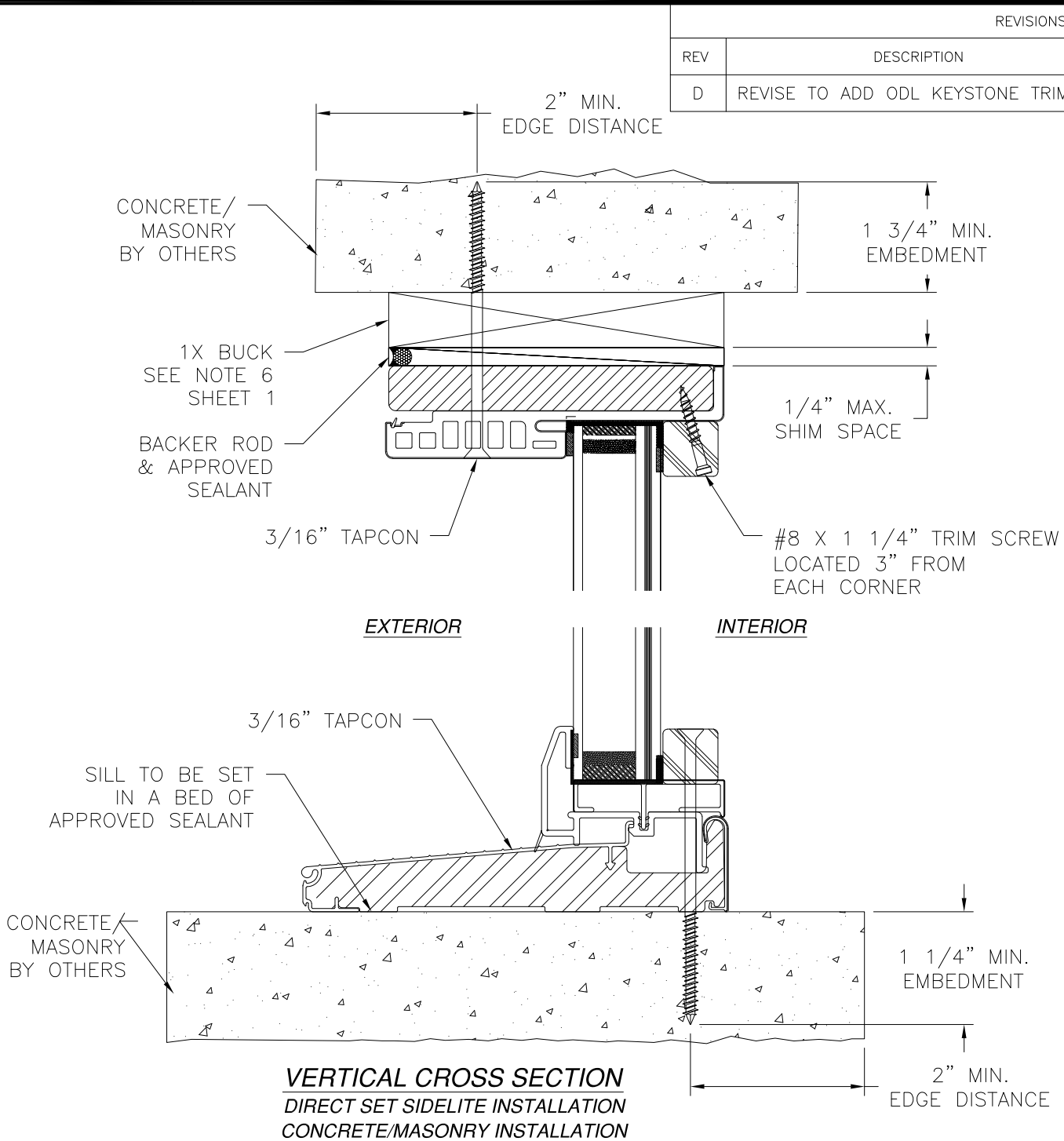
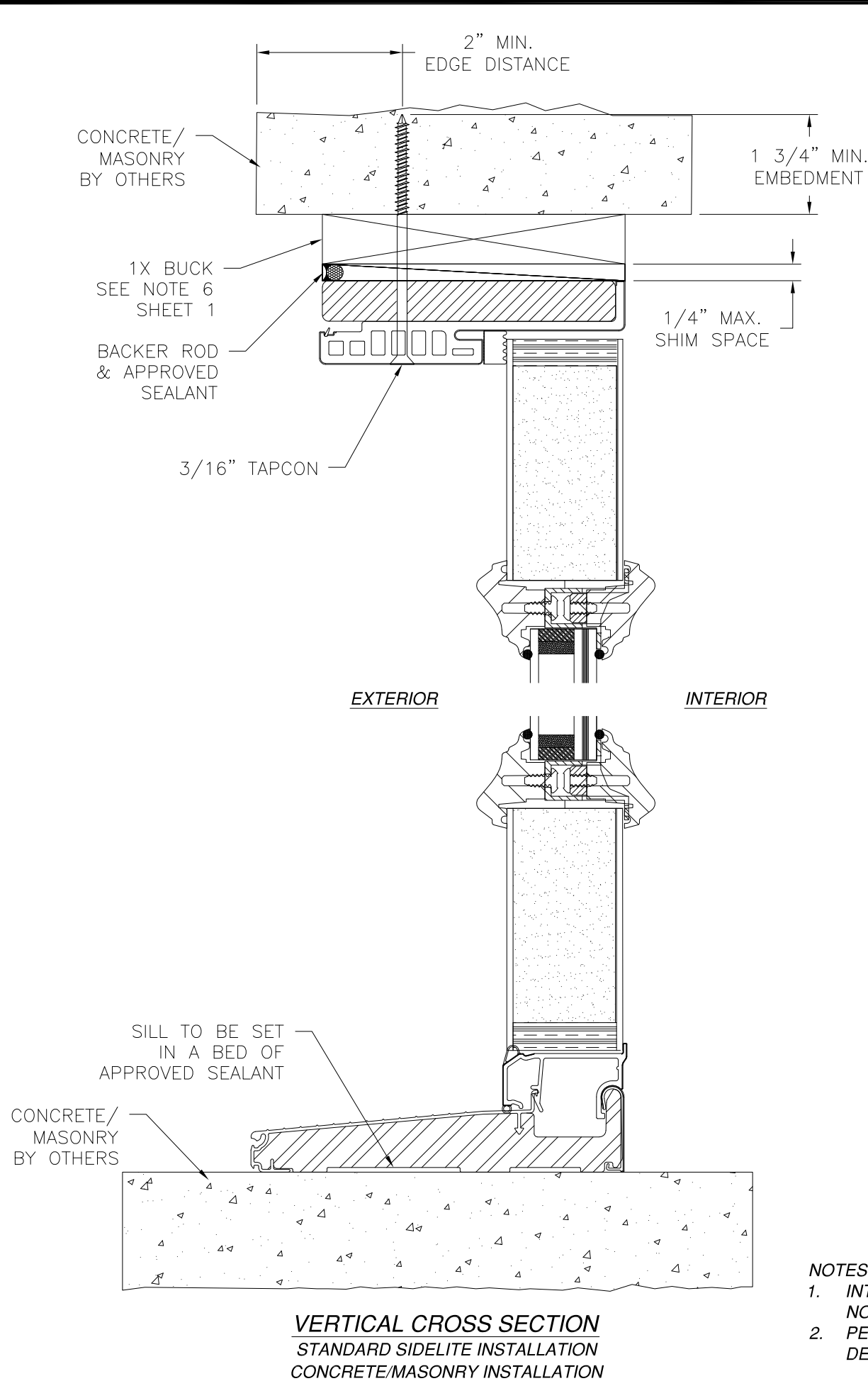
DRAWN: A.R.	DWG NO. 08-03625	REV D
SCALE NTS	DATE 10/14/2020	SHEET 15 OF 21

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IMPACT
INSTALLATION DETAILS W/FUSION FRAME

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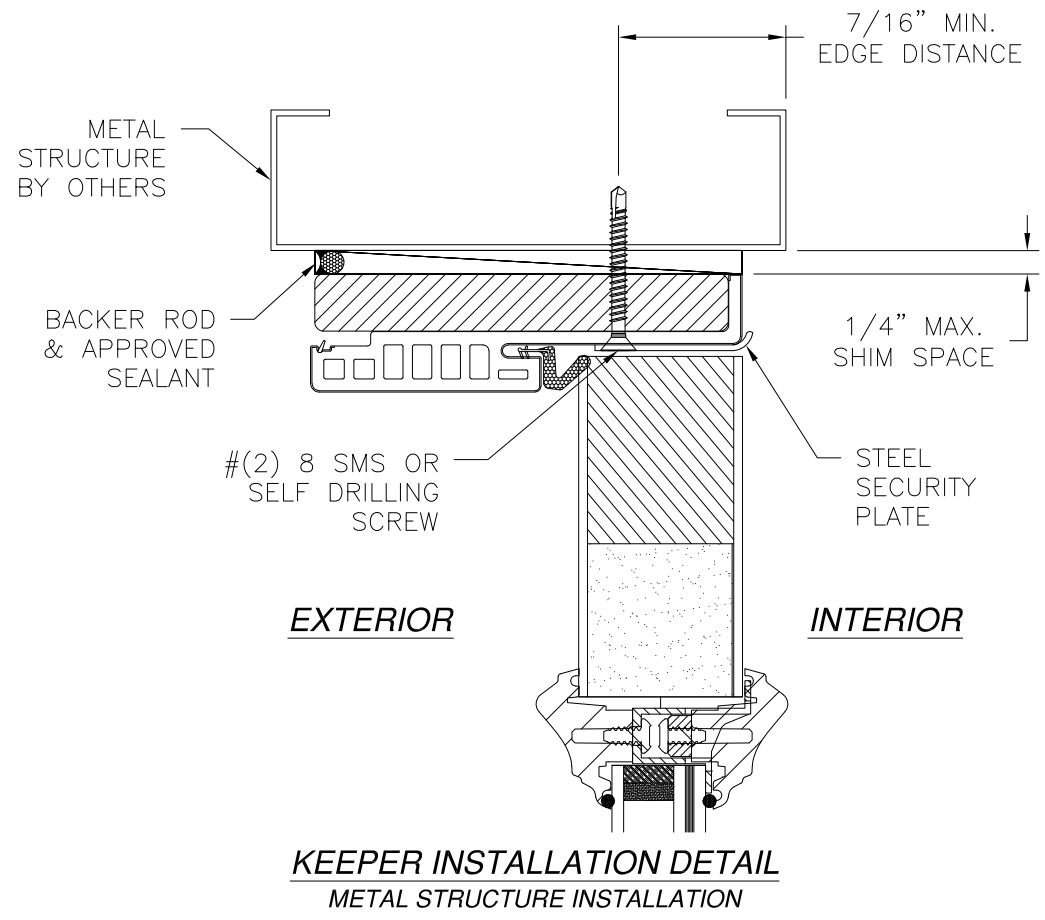
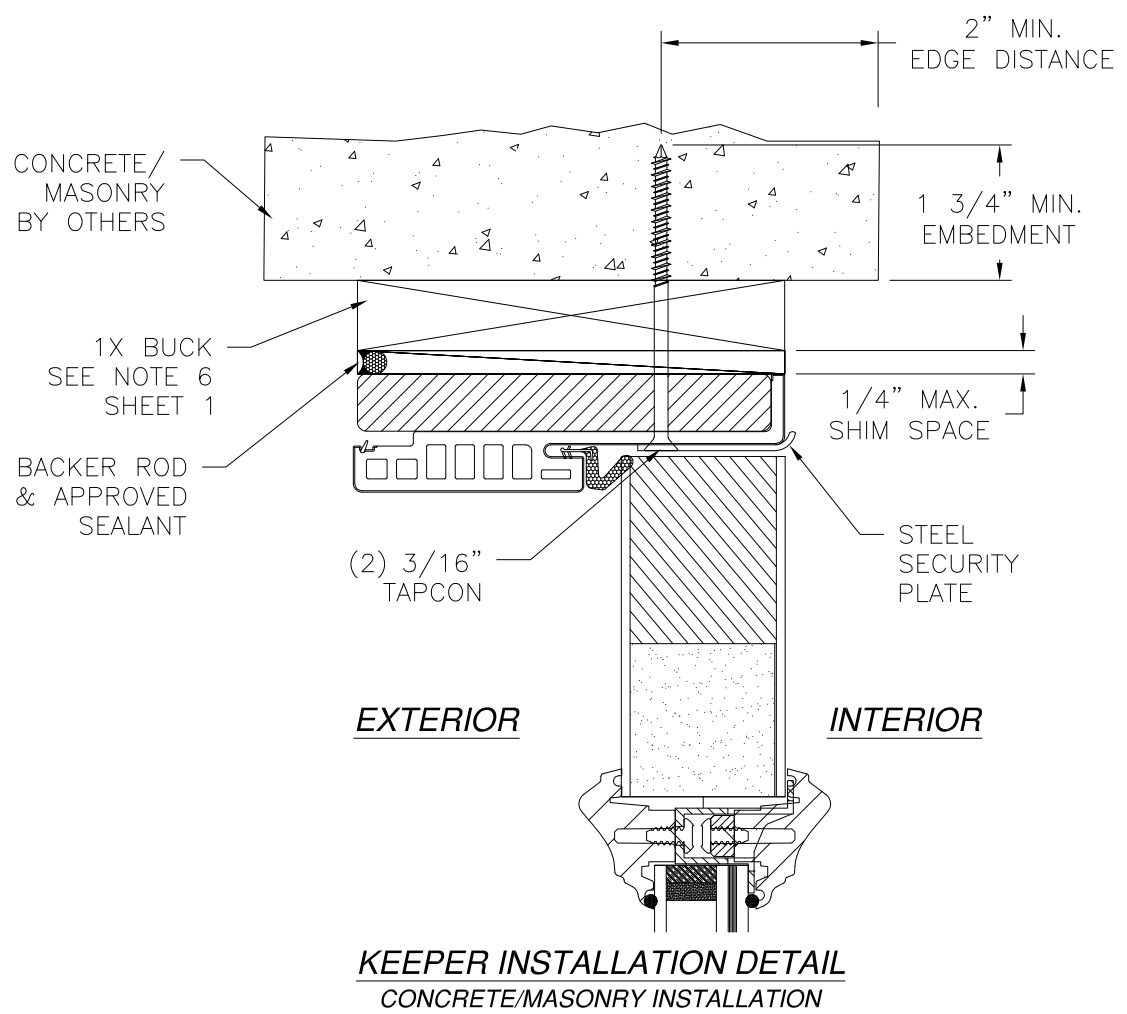
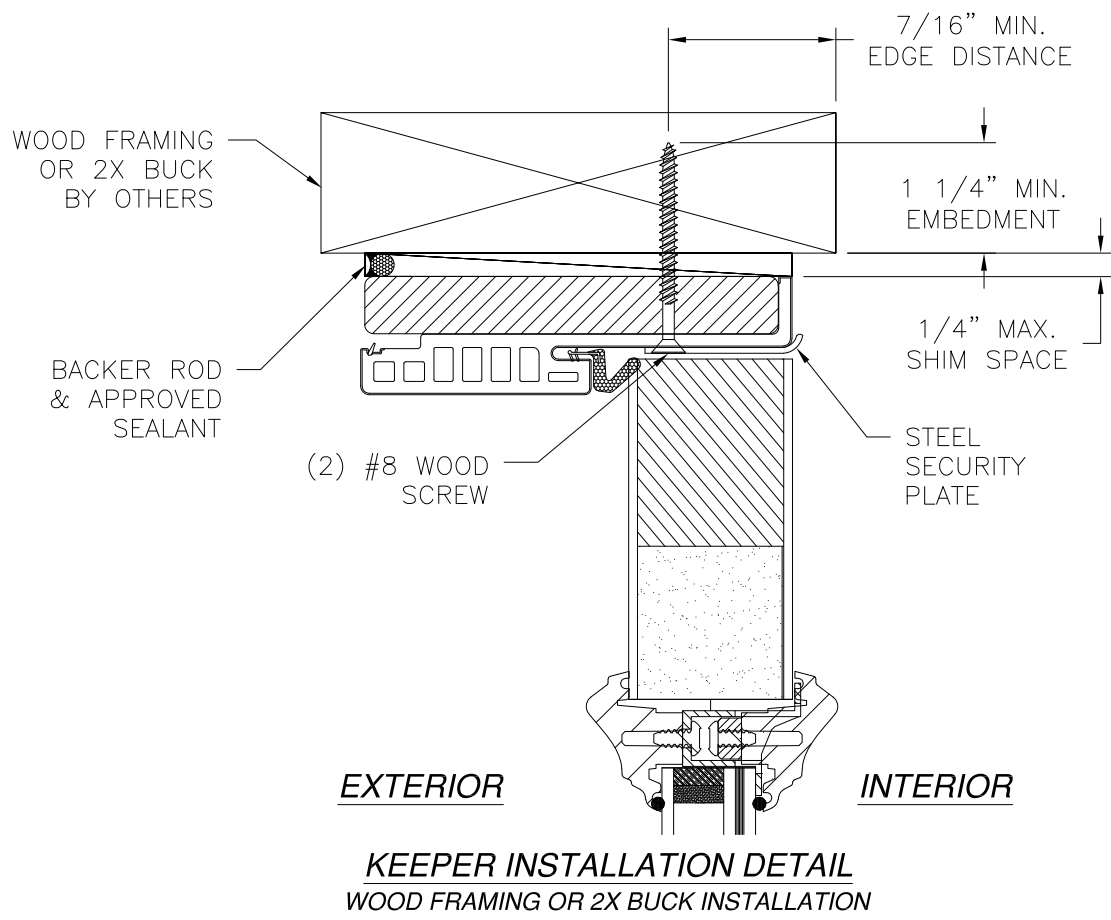
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2150 STATE ROUTE 39 WEST
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SIGNET INSWING ENTRY DOOR SYSTEM 8'0" IMPACT

INSTALLATION DETAILS W/FUSION FRAME

DRAWN: A.R.

DWG NO. 08-03625

REV D

SCALE NTS

DATE 10/14/2020

SHEET 17 OF 21

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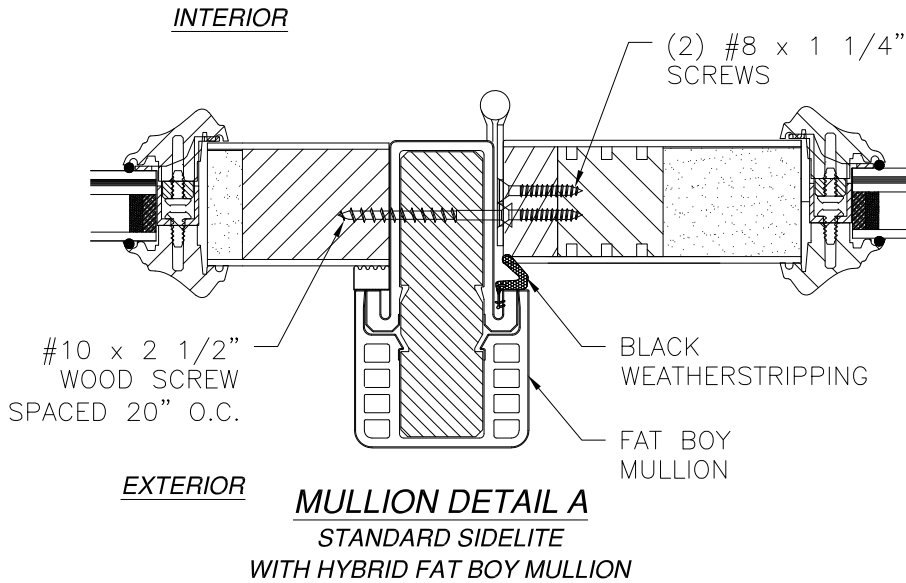
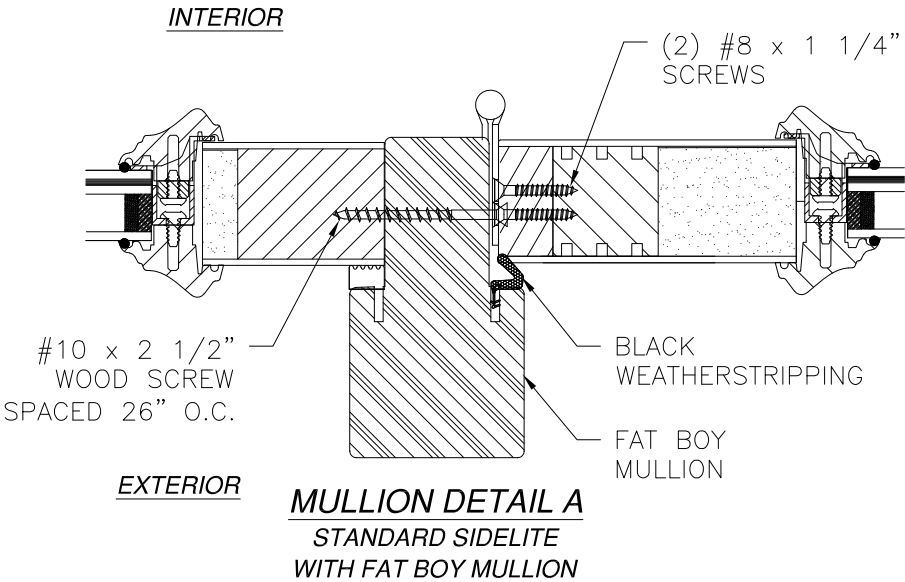
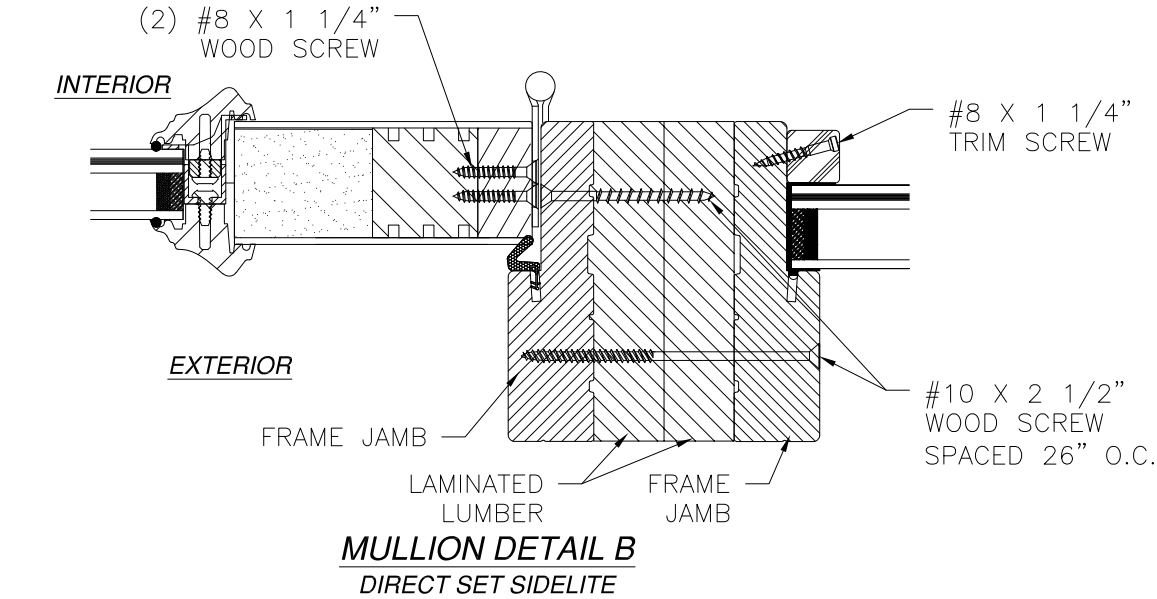
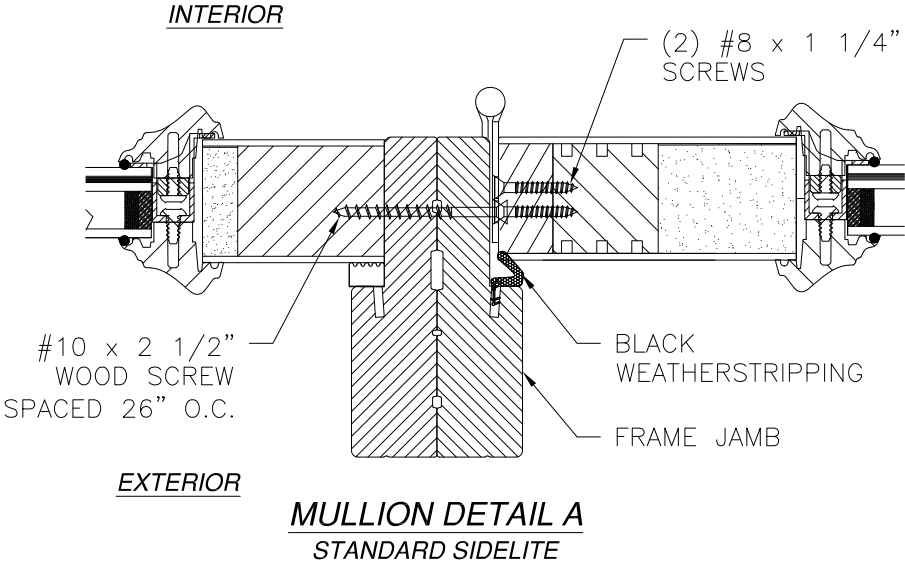
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PROVIA, LLC.

2150 STATE ROUTE 39 WEST
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SIGNET INSWING ENTRY DOOR SYSTEM 8'0"

IMPACT

MULLION DETAILS

DRAWN: A.R.

DWG NO. 08-03625

REV D

SCALE NTS

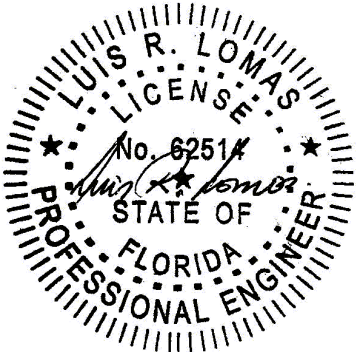
DATE 10/14/2020

SHEET 18 OF 21

L. ROBERTO LOMAS P.E.

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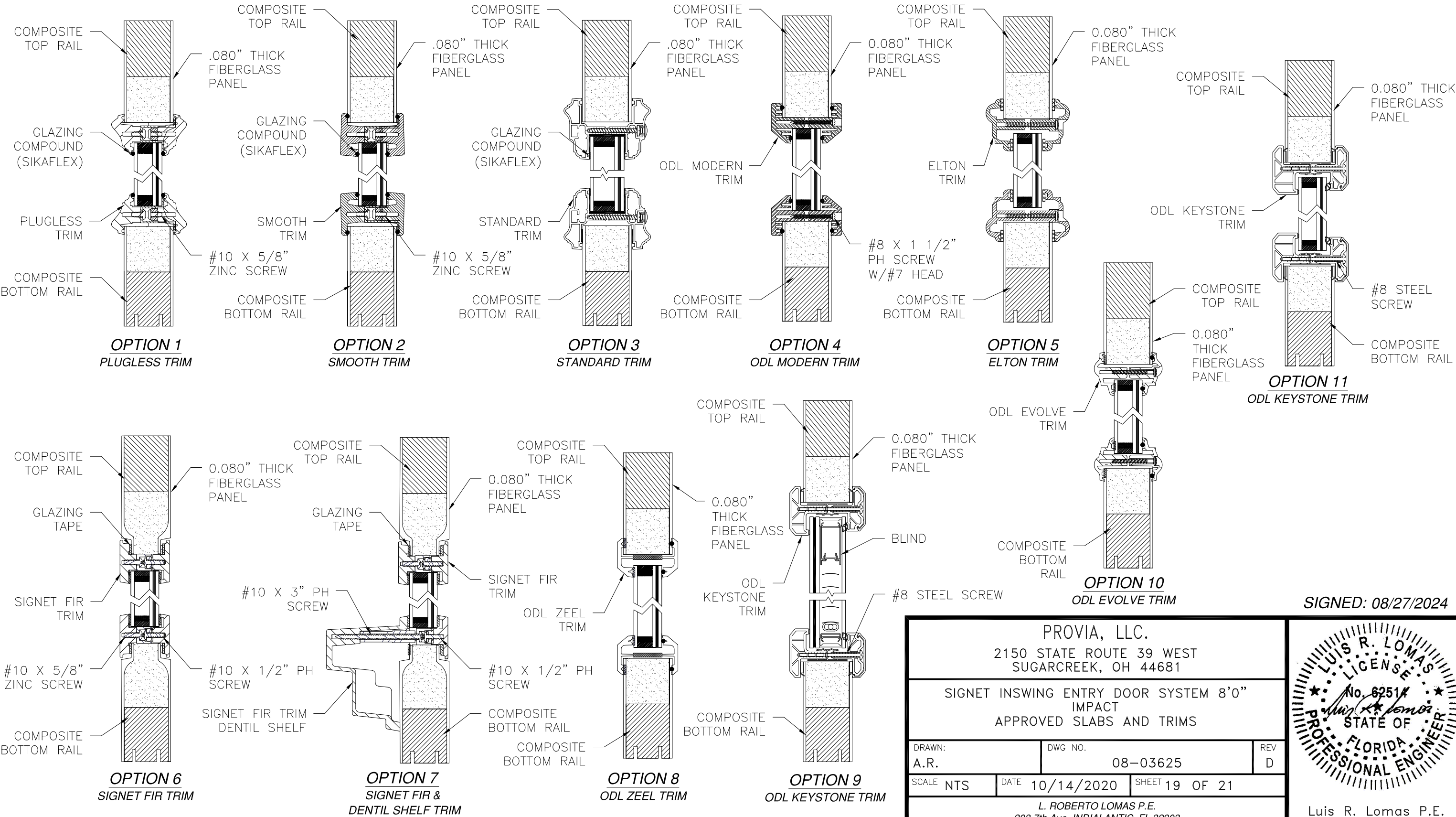
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APPROVED SLABS AND TRIMS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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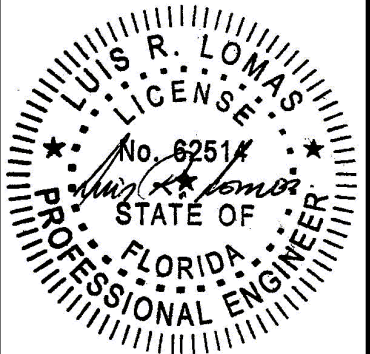
PROVIA, LLC.
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SIGNET INSWING ENTRY DOOR SYSTEM 8'0"
IMPACT
APPROVED SLABS AND TRIMS

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SCALE NTS	DATE 10/14/2020	SHEET 19 OF 21

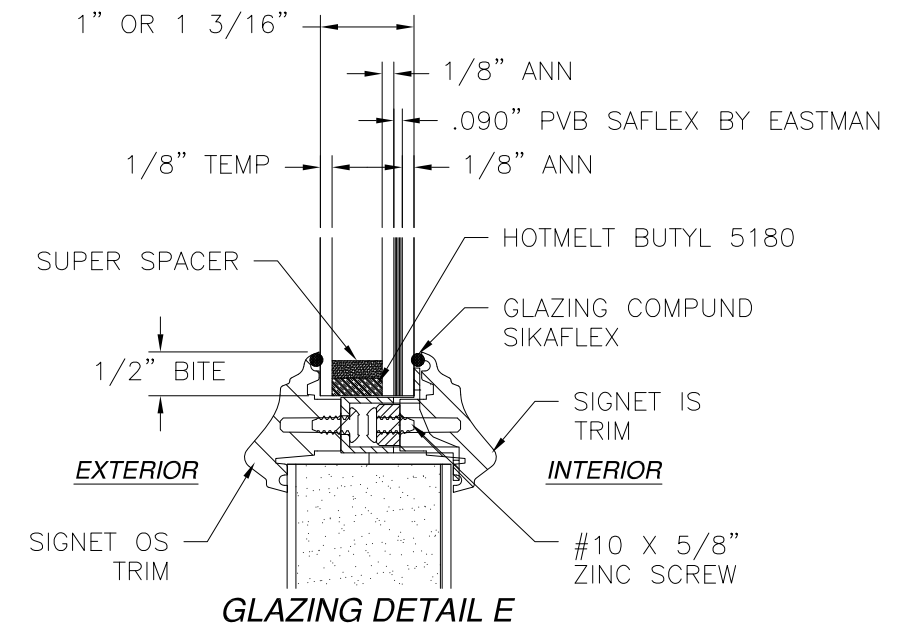
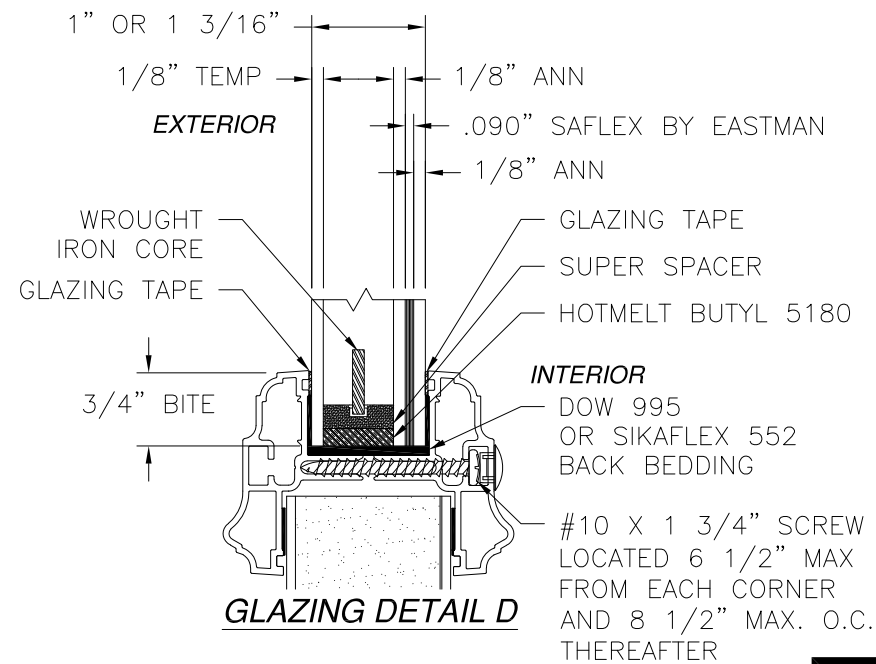
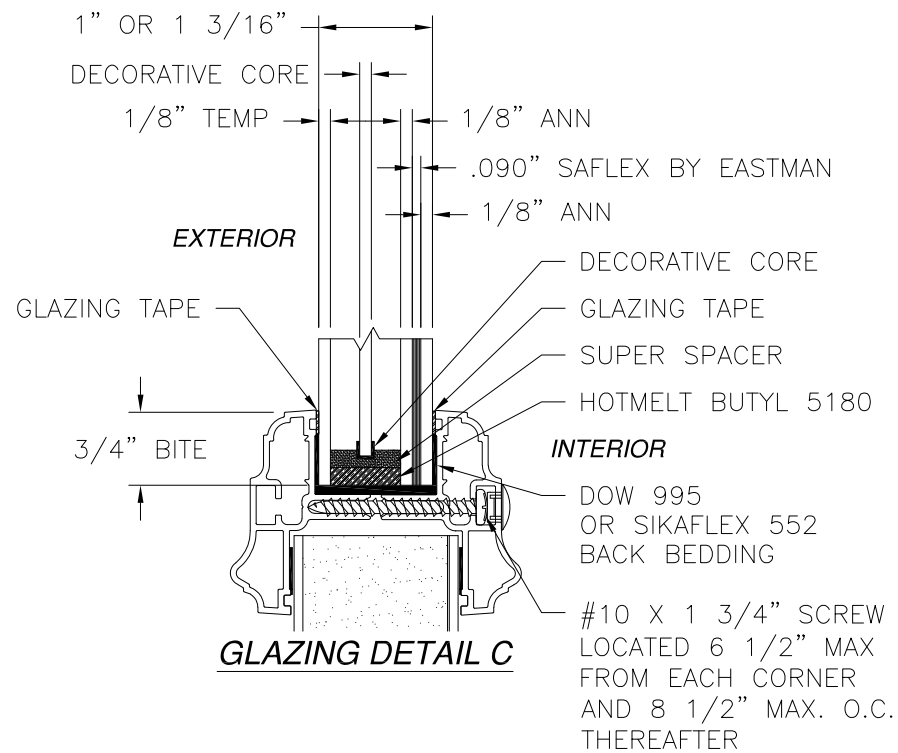
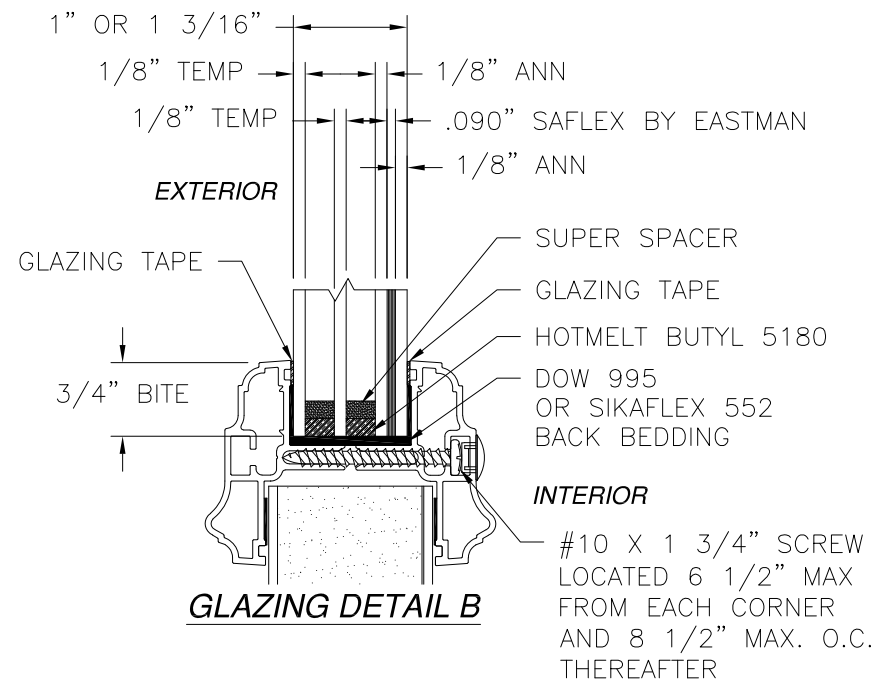
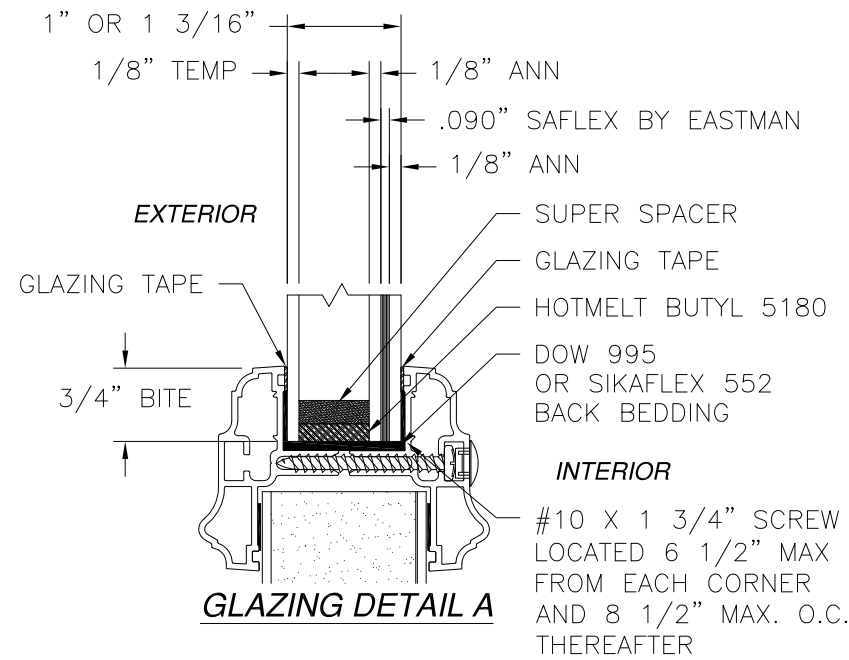
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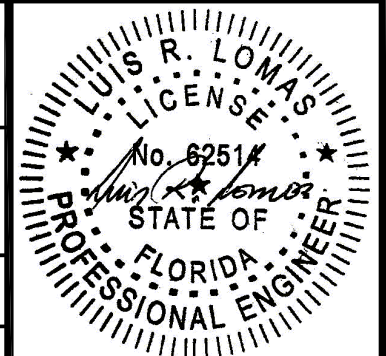
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SIGNET INSWING ENTRY DOOR SYSTEM 8'0" IMPACT GLAZING DETAILS		
DRAWN: A.R.	DWG NO. 08-03625	REV D
SCALE NTS	DATE 10/14/2020	SHEET 20 OF 21
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Luis R. Lomas P.E.
FL No.: 62514

FRAMESAVER
COMPOSITE

WOOD FRAME PROFILE

COMPOSITE FRAME PROFILE

HYBRID HEAD
WOOD/COMPOSITE

HYBRID JAMB
WOOD/COMPOSITE

SAHARA INSWING THRESHOLD

INSWING SILL ZAIL4565

INSWING SILL ZAI4565F

INSWING SILL ZAILH4565

FAT BOY MULLION
COMPOSITE

HYBRID FAT BOY MULLION
COMPOSITE

INSWING SILL ZACL4565

INSWING SILL ZAC4565F

INSWING SILL ZACLH4565

ASTRAGAL WITH
THERMAL BREAK ASSEMBLY

INSWING SILL
DOOR

INSWING SILL
STANDARD SIDELITE

INSWING SILL
DIRECT SET SIDELITE

REVISIONS			
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SIGNET INSWING ENTRY DOOR SYSTEM 8'0"
IMPACT
COMPONENTS

DRAWN:
A.R.

DWG NO.
08-03625

REV
D

SCALE
NTS

DATE
10/14/2020

SHEET
21 OF 21

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