

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CORROSION CHART	10/14/26	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: ALUMINUM 6063-T5.
12. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS 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 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/2" 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.
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: GROUT 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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LANAI DOORS
941 NORTH ELM STREET, SUITE C
ORANGE, CA 92867

SERIES E3 HURRICANE OUTSWING
ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ
NOTES

DRAWN:
A.R.

DWG NO.
08-03612

REV
A

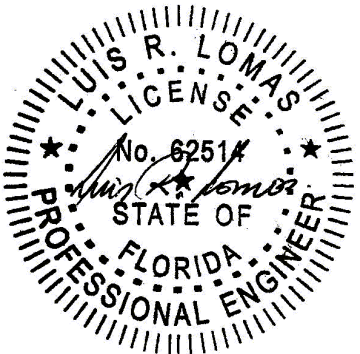
SCALE NTS

DATE 09/18/2020

SHEET 1 OF 11

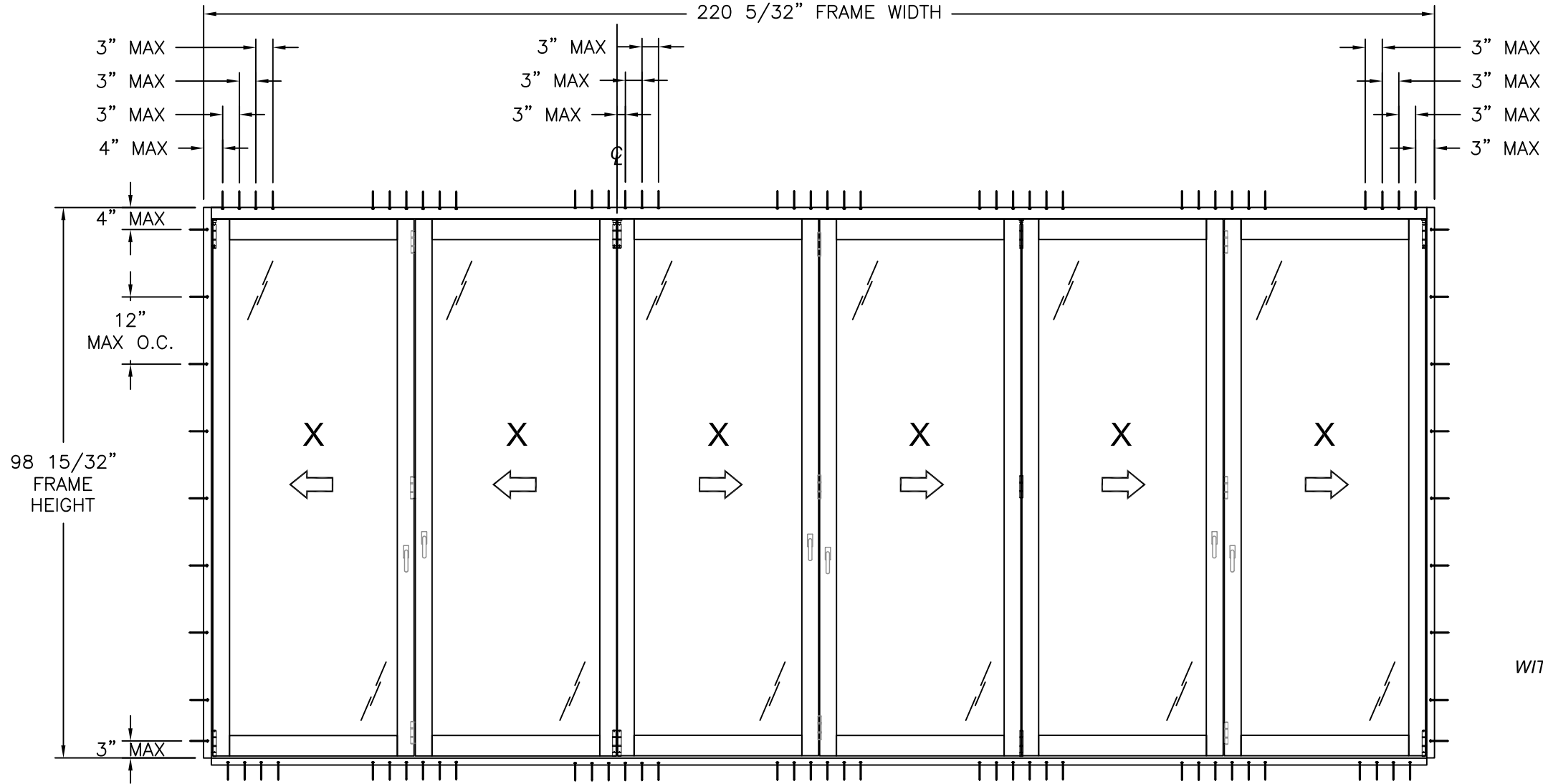
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SIGNED: 10/14/2026



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CORROSION CHART	10/14/26	R.L.



- NOTES:
- PANEL SIZE: 36" X 96"
 - D.L.O. SIZE: 30" X 88 3/4"

WITH STANDARD THRESHOLD

DESIGN PRESSURE RATING	IMPACT RATING
+55.0/-80.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #1 SHEET 3 FOR OTHER SIZES

WITH STANDARD THRESHOLD

DESIGN PRESSURE RATING	IMPACT RATING
+100.0/-80.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #2 SHEET 3 FOR OTHER SIZES

WITH FLUSH GUIDE, COMMERCIAL FLUSH GUIDE AND LOW RISE THRESHOLD

DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #3 SHEET 3 FOR OTHER SIZES

SERIES E3 HURRICANE OUTWARD OPENING BIFOLD DOORS

EXTERIOR VIEW

6 PANEL UNIT (2L4R) SHOWN. UNLIMITED NUMBER OF PANELS ARE APPROVED AS LONG AS
PANEL AREA DOES NOT EXCEED 24 FT² AND TOTAL FRAME AREA DOES NOT EXCEED 225.8 FT²

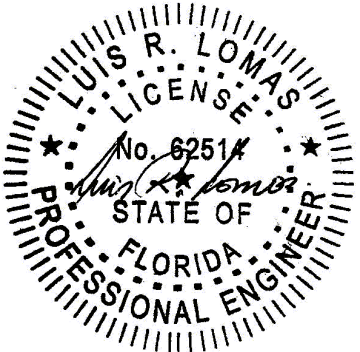
HARDWARE SCHEDULE

A.	(1) INTERLOCK USA 4-POINT DOOR HANDLE ASSEMBLY AT LEFT SWING DOOR
B.	(5) INTERLOCK USA 2-POINT HANDLE AT RIGHT SWING DOOR AND TWO AT EACH LOCKING STILE
C.	(12) SHOOT BOLT GUIDES REINFORCED AT TOP AND BOTTOM PANEL STILES AT EACH LOCKING POINT
D.	(3) DOUBLE SHOOT BOLT CUPS AT SILL AT EACH SHOOT BOLT
E.	(1) STRIKE PLATE AT RIGHT SWING DOOR ADJACENT TO DOOR HANDLE ASSEMBLY
F.	(2) HINGE WITH HANDLE AT CENTER OF EACH SHOOT BOLT FOLDING PANEL JOINT
G.	(4) OFFSET HINGE, 6" FROM TOP AND BOTTOM OF EACH SHOOT BOLT FOLDING PANEL JOINT AND CENTER OF EACH ROLLER FOLDING PANEL JOINT
H.	(2) FLAT HINGE AT CENTER OF EACH ROLLER FOLDING PANEL JOINT
I.	(4) PIVOT HINGE AT TOP AND BOTTOM OF EACH PANEL AT JAMB
J.	(2) INTERMEDIATE CARRIER WITH HINGE AT TOP OF EACH ROLLER PANEL JOINT
K.	(2) CONCEALED INTERMEDIATE GUIDE AT BOTTOM OF EACH ROLLER PANEL JOINT
L.	END CARRIERS ON 2L 4R SYSTEM



LANAI DOORS 941 NORTH ELM STREET, SUITE C ORANGE, CA 92867		
SERIES E3 HURRICANE OUTSWING ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ ELEVATION		
DRAWN: A.R.	DWG NO. 08-03612	REV A
SCALE NTS	DATE 09/18/2020	SHEET 2 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 10/14/2026



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A	ADDED CORROSION CHART	10/14/26	R.L.

Chart #1
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)													
	24.0		27.0		30.0		33.0		36.0		39.0		42.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	55.0	120.0	55.0	120.0	55.0	115.2	55.0	104.7	55.0	96.0	55.0	88.6	55.0	82.3
84.0	55.0	120.0	55.0	118.0	55.0	108.5	55.0	99.7	55.0	91.4	55.0	84.4	-	-
90.0	55.0	120.0	55.0	108.8	55.0	99.8	55.0	92.6	55.0	85.3	-	-	-	-
96.0	55.0	111.4	55.0	100.8	55.0	92.4	55.0	85.6	55.0	80.0	-	-	-	-
102.0	55.0	96.6	55.0	86.4	55.0	78.3	55.0	71.7	-	-	-	-	-	-
108.0	55.0	81.2	55.0	72.6	55.0	65.7	-	-	-	-	-	-	-	-
114.0	55.0	68.9	55.0	61.5	55.0	55.7	-	-	-	-	-	-	-	-
120.0	55.0	59.0	55.0	52.6	-	-	-	-	-	-	-	-	-	-
126.0	55.0	50.9	55.0	45.4	-	-	-	-	-	-	-	-	-	-
132.0	55.0	44.2	-	-	-	-	-	-	-	-	-	-	-	-
138.0	48.3	38.6	-	-	-	-	-	-	-	-	-	-	-	-
144.0	42.4	34.0	-	-	-	-	-	-	-	-	-	-	-	-

Where water penetration resistance is required

Chart #2
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)													
	24.0		27.0		30.0		33.0		36.0		39.0		42.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	150.0	120.0	150.0	120.0	144.0	115.2	130.9	104.7	120.0	96.0	110.8	88.6	102.9	82.3
84.0	150.0	120.0	147.5	118.0	135.7	108.5	124.7	99.7	114.3	91.4	105.5	84.4	-	-
90.0	150.0	120.0	135.9	108.8	124.8	99.8	115.8	92.6	106.7	85.3	-	-	-	-
96.0	139.3	111.4	126.1	100.8	115.6	92.4	107.0	85.6	100.0	80.0	-	-	-	-
102.0	120.8	96.6	108.0	86.4	97.9	78.3	89.6	71.7	-	-	-	-	-	-
108.0	101.5	81.2	90.7	72.6	82.1	65.7	-	-	-	-	-	-	-	-
114.0	86.1	68.9	76.9	61.5	69.6	55.7	-	-	-	-	-	-	-	-
120.0	73.7	59.0	65.8	52.6	-	-	-	-	-	-	-	-	-	-
126.0	63.6	50.9	56.7	45.4	-	-	-	-	-	-	-	-	-	-
132.0	55.2	44.2	-	-	-	-	-	-	-	-	-	-	-	-
138.0	48.3	38.6	-	-	-	-	-	-	-	-	-	-	-	-
144.0	42.4	34.0	-	-	-	-	-	-	-	-	-	-	-	-

Where water penetration resistance is not required

Chart #3
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)													
	24.0		27.0		30.0		33.0		36.0		39.0		42.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	105.0	105.0	105.0	105.0	100.8	100.8	91.6	91.6	84.0	84.0	77.5	77.5	72.0	72.0
84.0	105.0	105.0	103.3	103.3	95.0	95.0	87.3	87.3	80.0	80.0	73.8	73.8	-	-
90.0	105.0	105.0	95.2	95.2	87.4	87.4	81.0	81.0	74.7	74.7	-	-	-	-
96.0	97.5	97.5	88.2	88.2	80.9	80.9	74.9	74.9	70.0	70.0	-	-	-	-
102.0	84.5	84.5	75.6	75.6	68.5	68.5	62.7	62.7	-	-	-	-	-	-
108.0	71.1	71.1	63.5	63.5	57.5	57.5	-	-	-	-	-	-	-	-
114.0	60.3	60.3	53.8	53.8	48.7	48.7	-	-	-	-	-	-	-	-
120.0	51.6	51.6	46.1	46.1	-	-	-	-	-	-	-	-	-	-
126.0	44.5	44.5	39.7	39.7	-	-	-	-	-	-	-	-	-	-
132.0	38.7	38.7	-	-	-	-	-	-	-	-	-	-	-	-
138.0	33.8	33.8	-	-	-	-	-	-	-	-	-	-	-	-
144.0	29.7	29.7	-	-	-	-	-	-	-	-	-	-	-	-

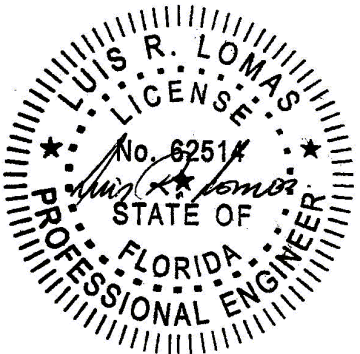
Where water penetration resistance is not required

Anchors and anchor connectors corrosion resistance chart		
Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-vented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-unvented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S



LANAI DOORS 941 NORTH ELM STREET, SUITE C ORANGE, CA 92867		
SERIES E3 HURRICANE OUTSWING ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ DESIGN PRESSURE CHARTS		
DRAWN: A.R.	DWG NO. 08-03612	REV A
SCALE NTS	DATE 09/18/2020	SHEET 3 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

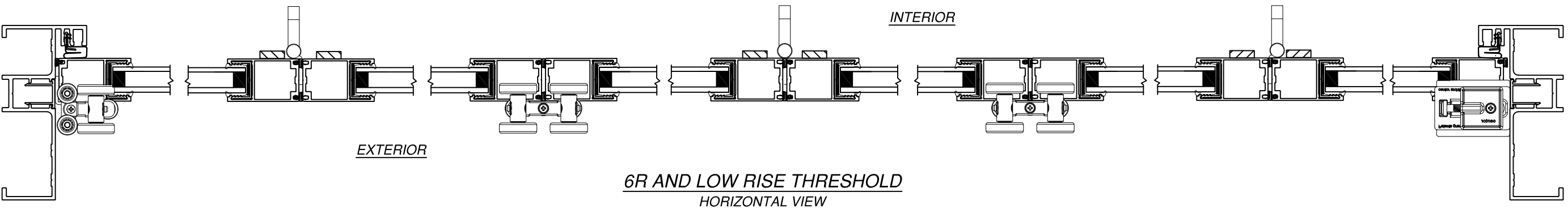
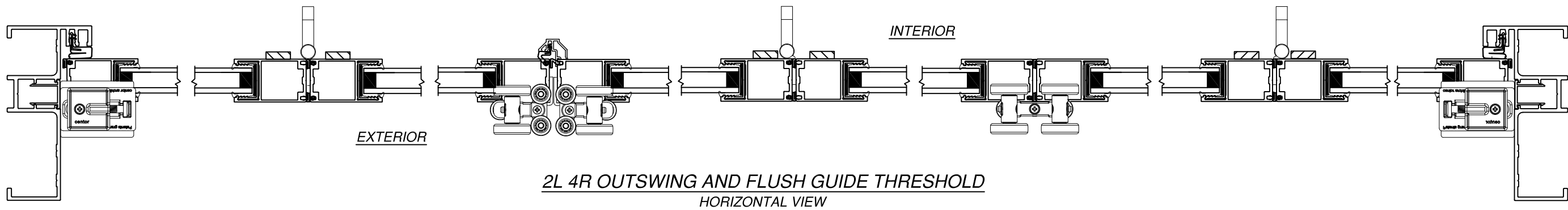
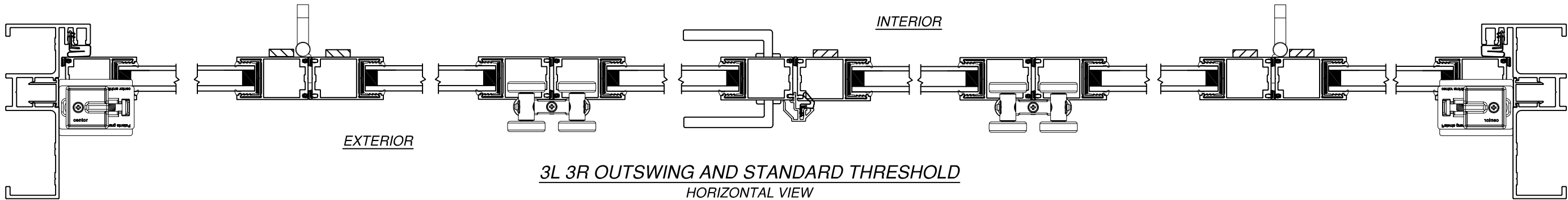
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HORIZONTAL CROSS SECTIONS ARE SHOWN FOR REFERENCE ONLY.
UNLIMITED NUMBER OF PANELS ARE APPROVED, SEE NOTE UNDER
ELEVATION IN SHEET 2.

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941 NORTH ELM STREET, SUITE C
ORANGE, CA 92867

SERIES E3 HURRICANE OUTSWING
ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ
APPROVED CONFIGURATIONS

DRAWN:
A.R.

DWG NO.
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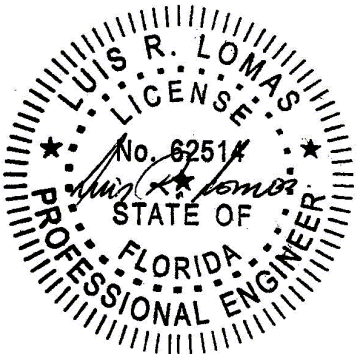
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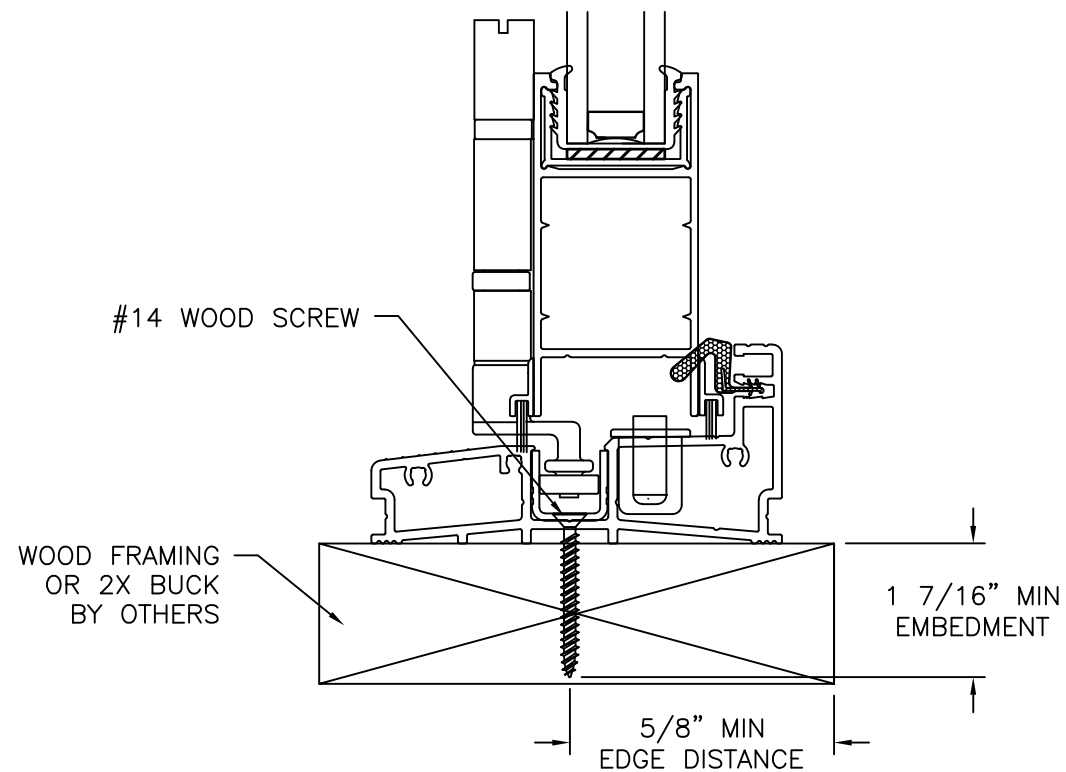
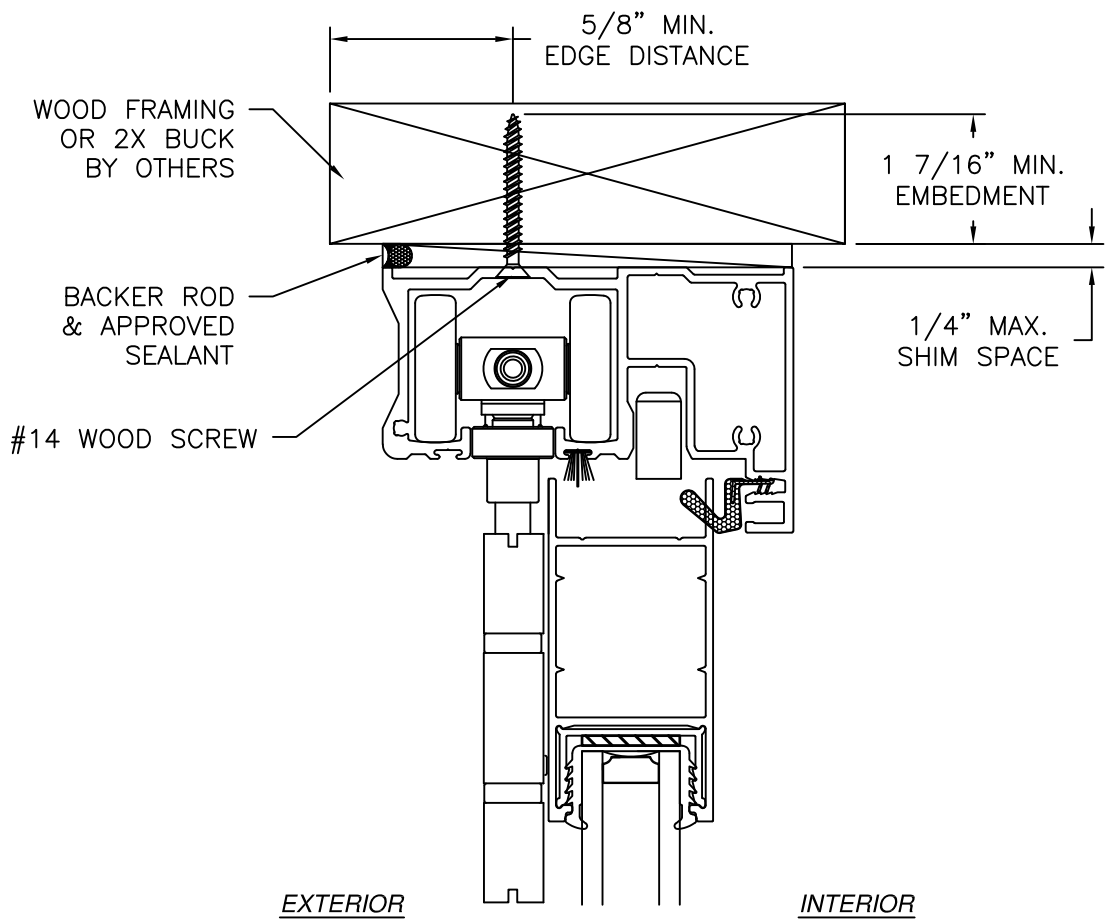
SHEET
4 OF 11

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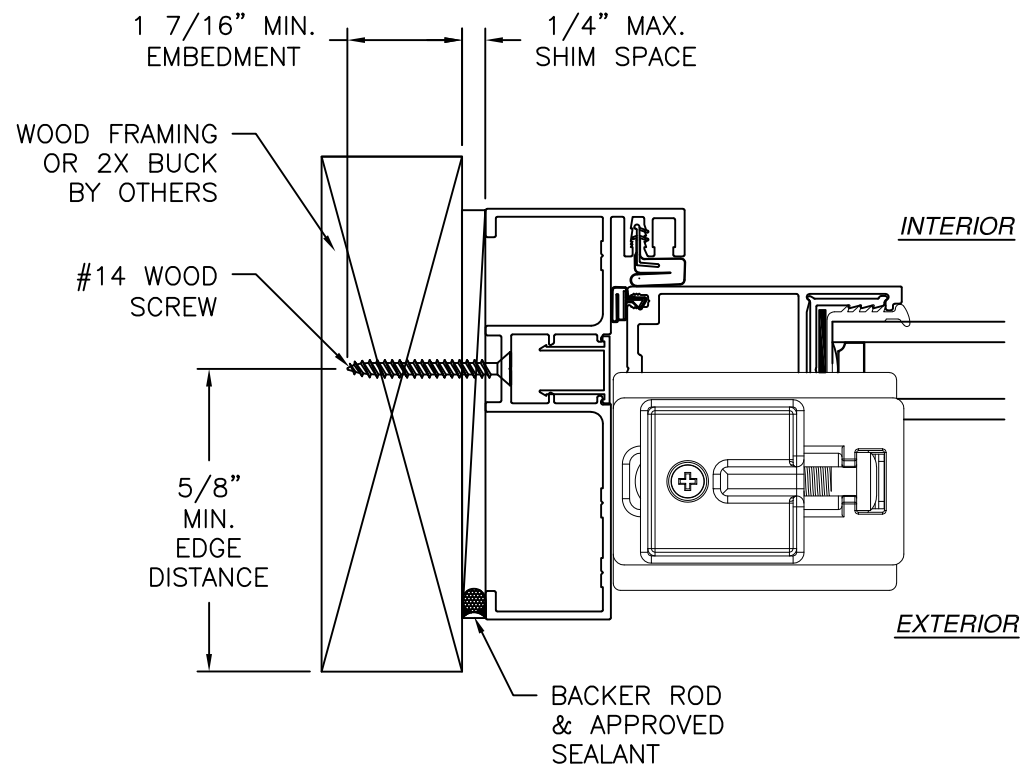


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
STANDARD THRESHOLD SHOWN
SEE SHEETS 8 AND 9 FOR OTHER THRESHOLDS INSTALLATIONS



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



LANAI DOORS

941 NORTH ELM STREET, SUITE C
ORANGE, CA 92867

SERIES E3 HURRICANE OUTSWING
ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ
INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03612

REV A

SCALE NTS

DATE 09/18/2020

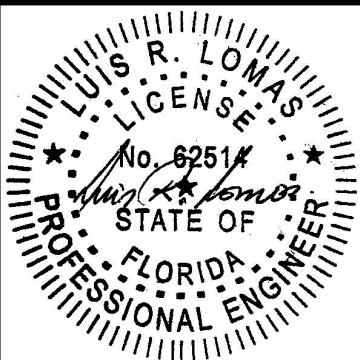
SHEET 5 OF 11

L. ROBERTO LOMAS P.E.

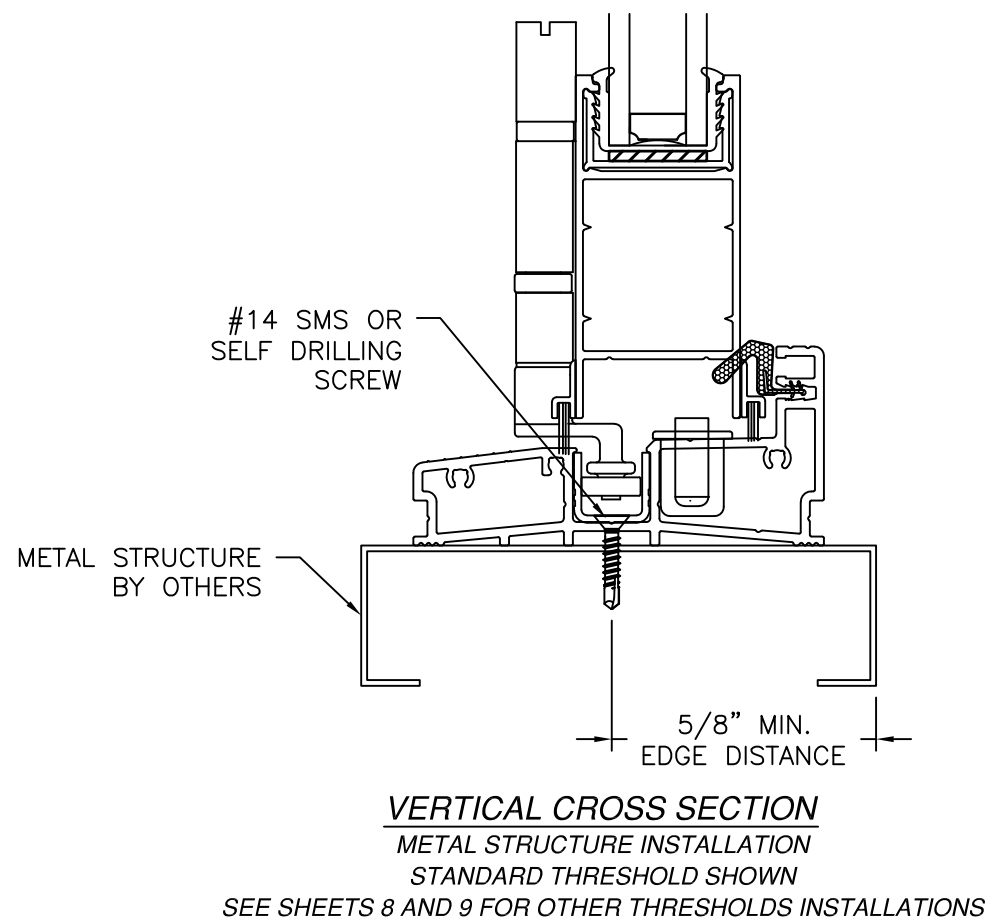
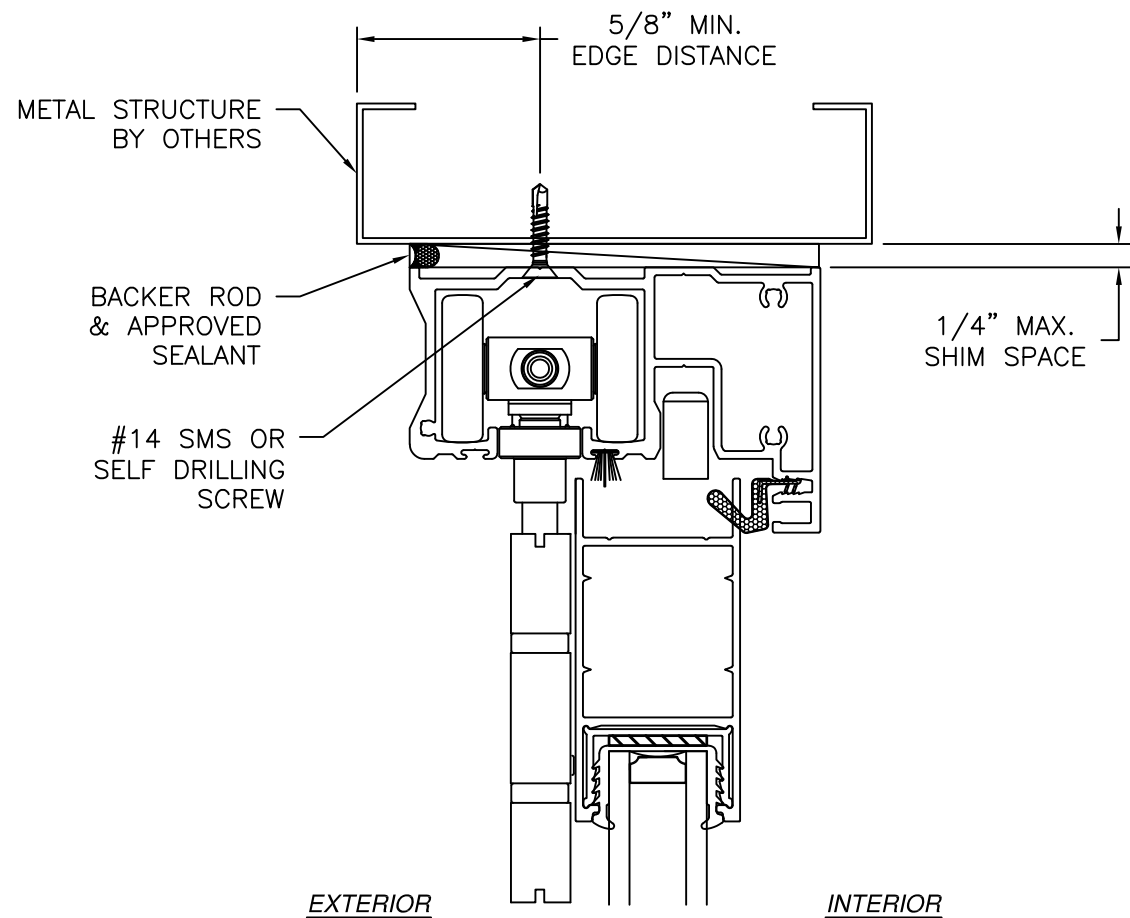
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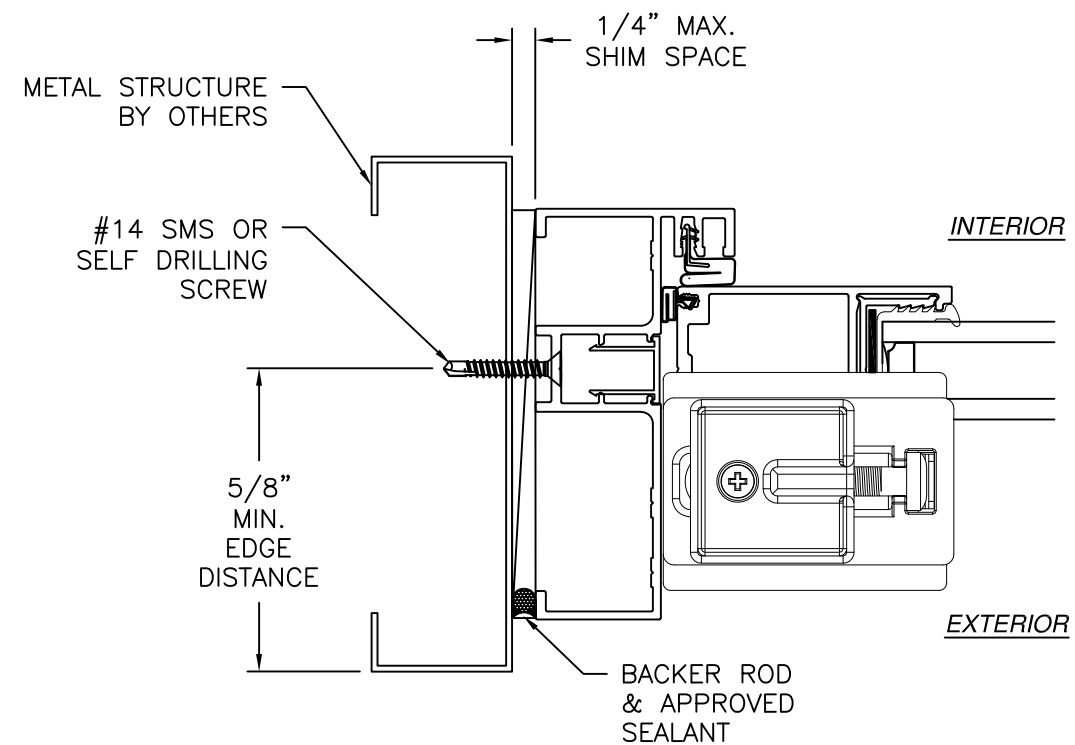
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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

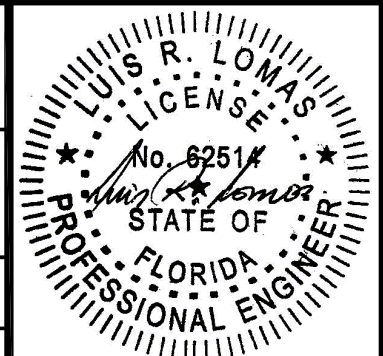
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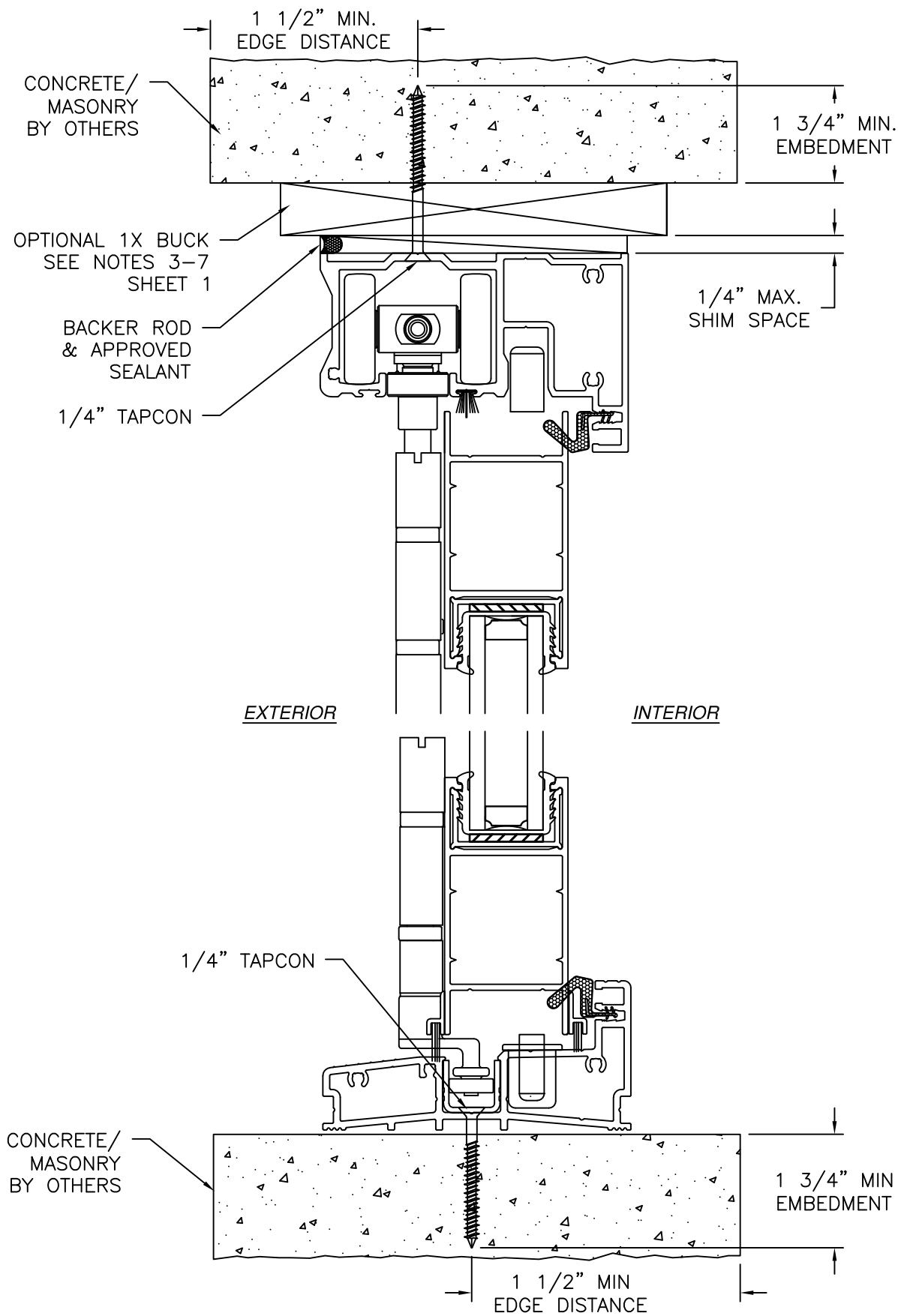
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SERIES E3 HURRICANE OUTSWING ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ INSTALLATION DETAILS		
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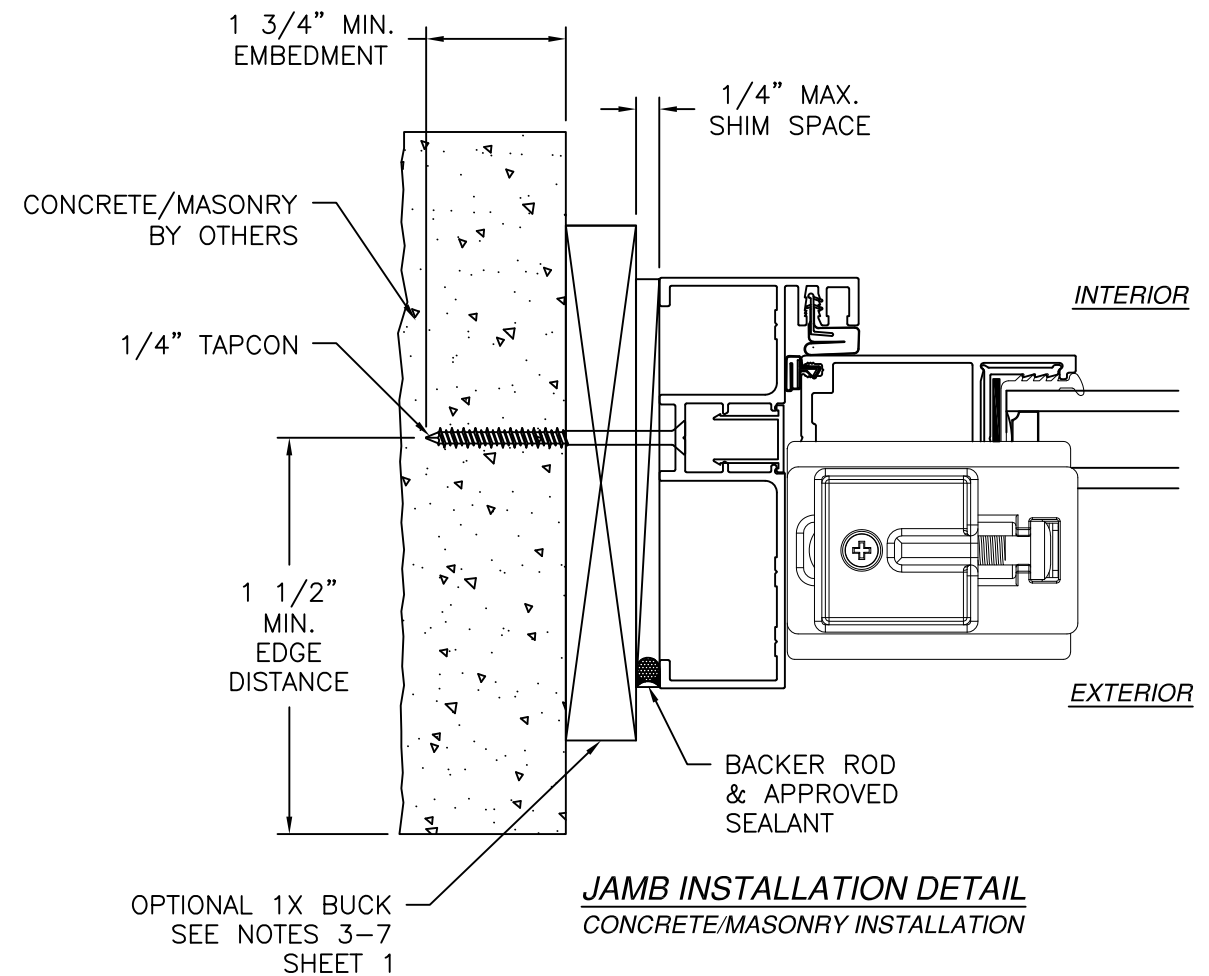
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
 STANDARD THRESHOLD SHOWN

SEE SHEETS 8 AND 9 FOR OTHER THRESHOLDS INSTALLATIONS

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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

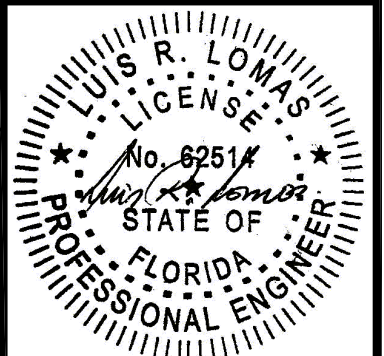
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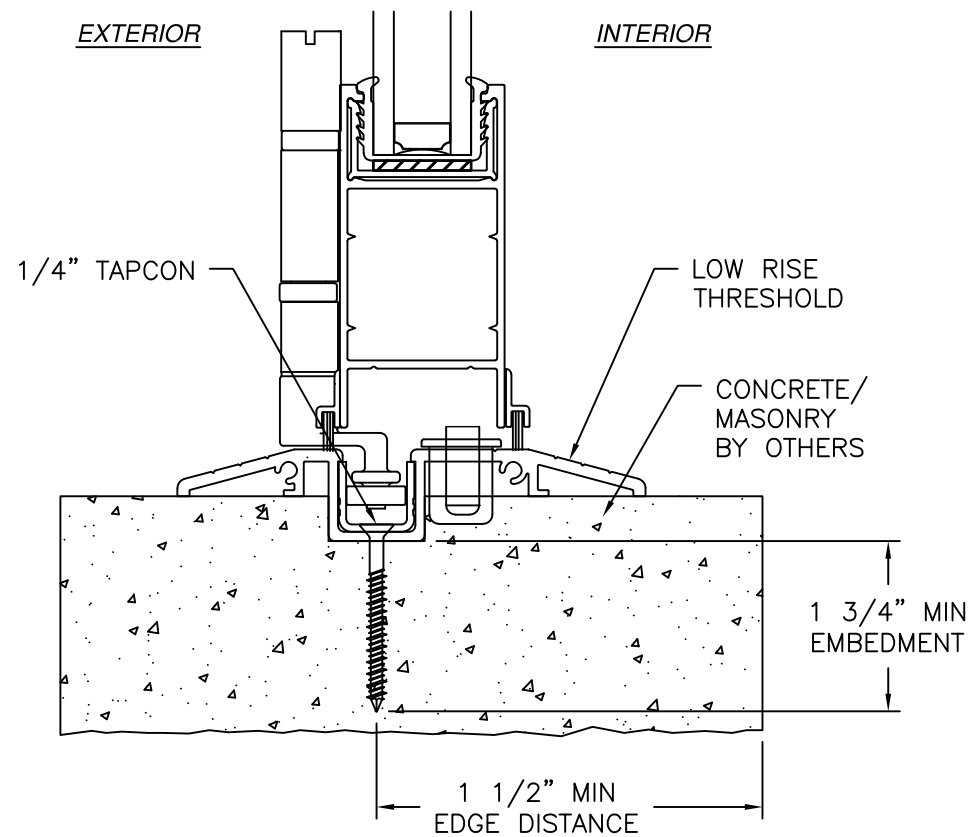
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EXTERIOR

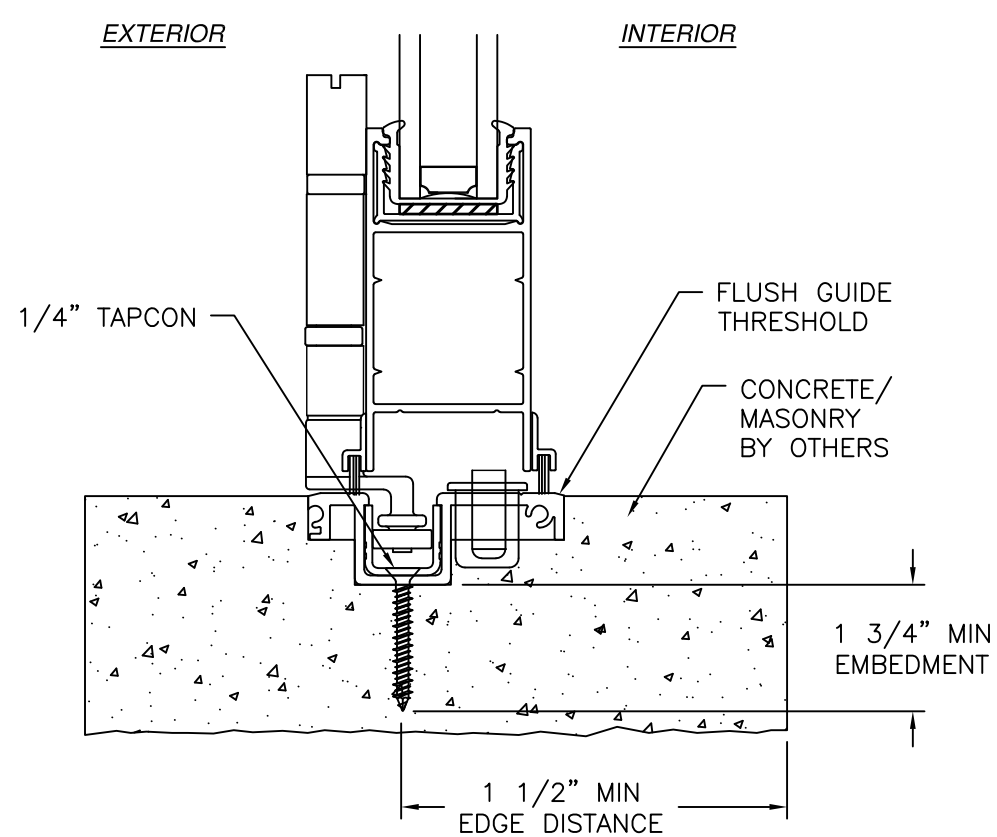
INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
LOW RISE THRESHOLD

EXTERIOR

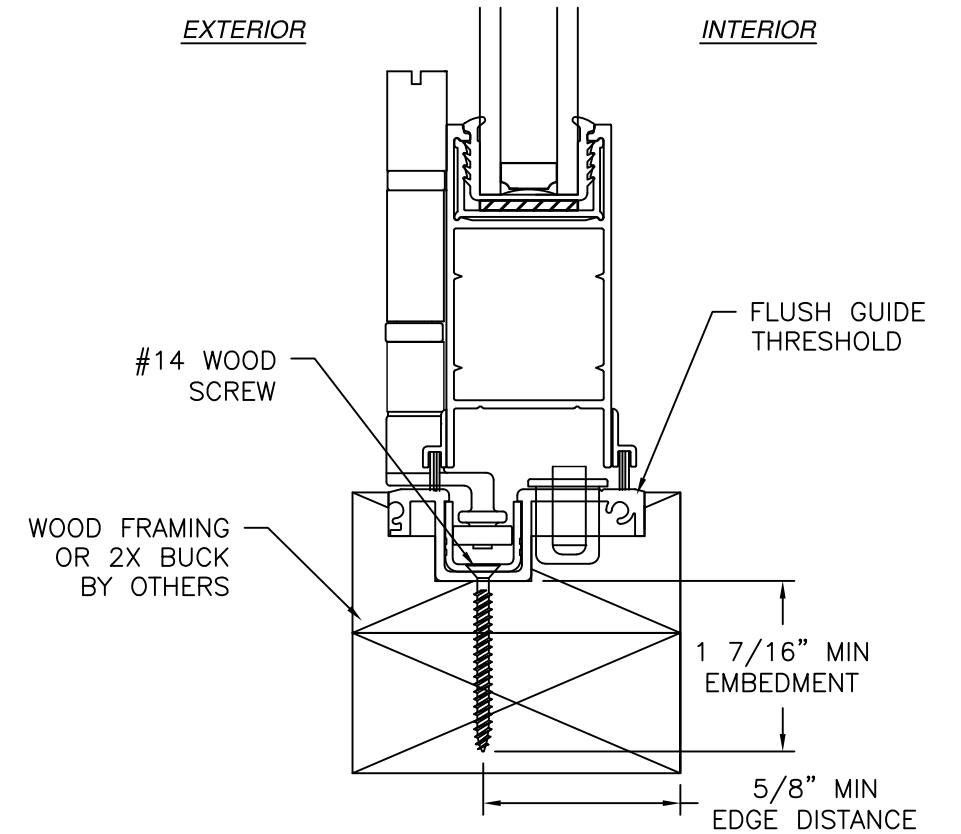
INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
FLUSH GUIDE THRESHOLD

EXTERIOR

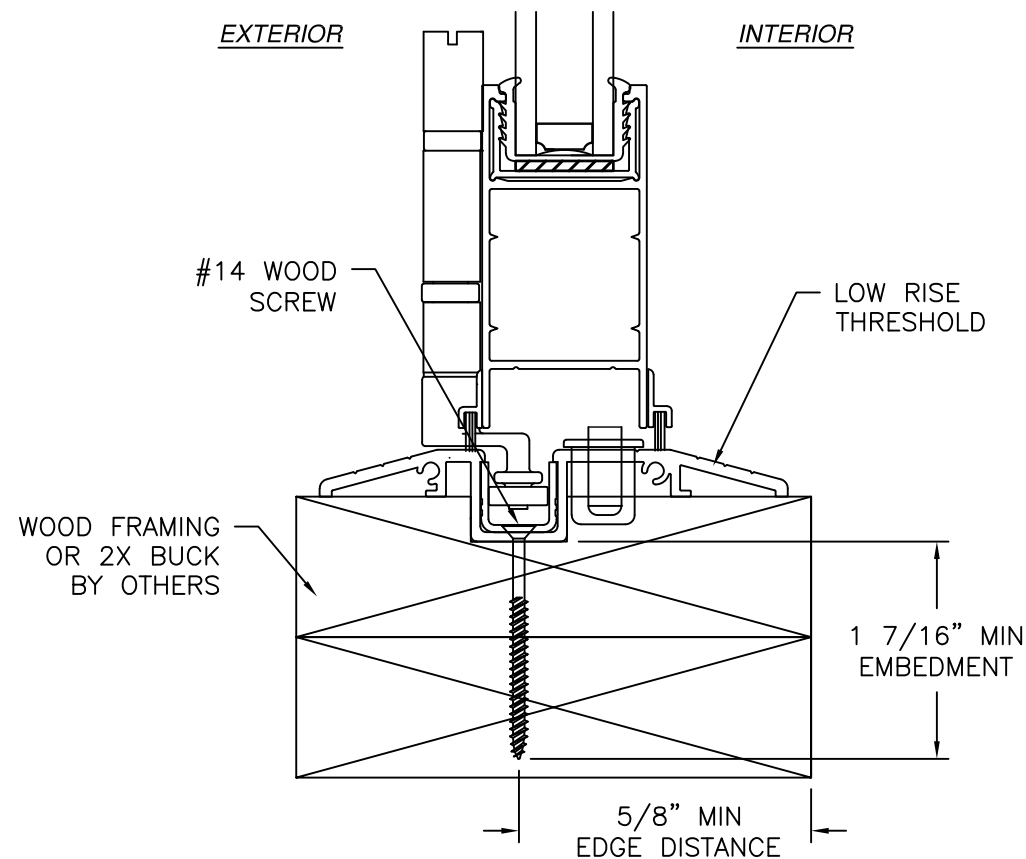
INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
FLUSH GUIDE THRESHOLD

EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING INSTALLATION
LOW RISE THRESHOLD

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



LANAI DOORS

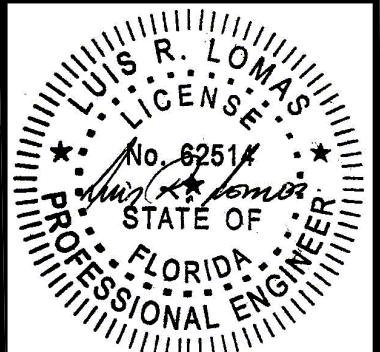
941 NORTH ELM STREET, SUITE C
ORANGE, CA 92867

SERIES E3 HURRICANE OUTSWING
ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ
INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03612	REV A
SCALE NTS	DATE 09/18/2020	SHEET 8 OF 11

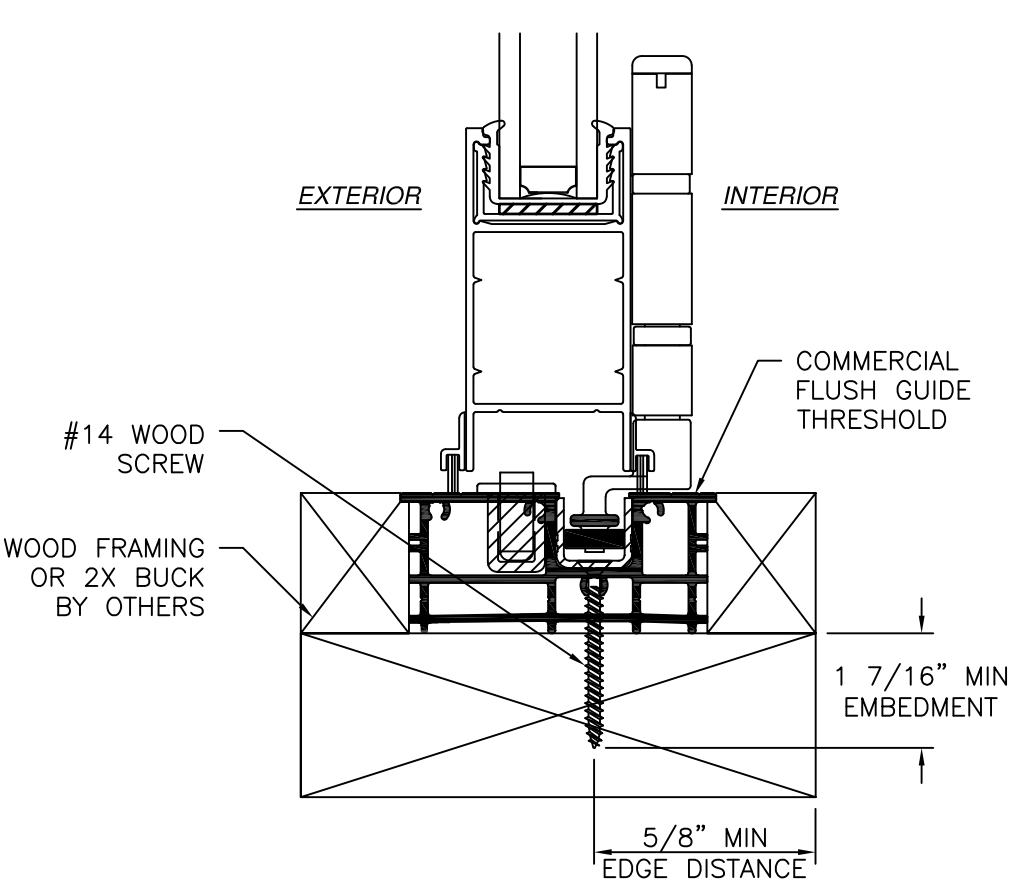
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/14/2026

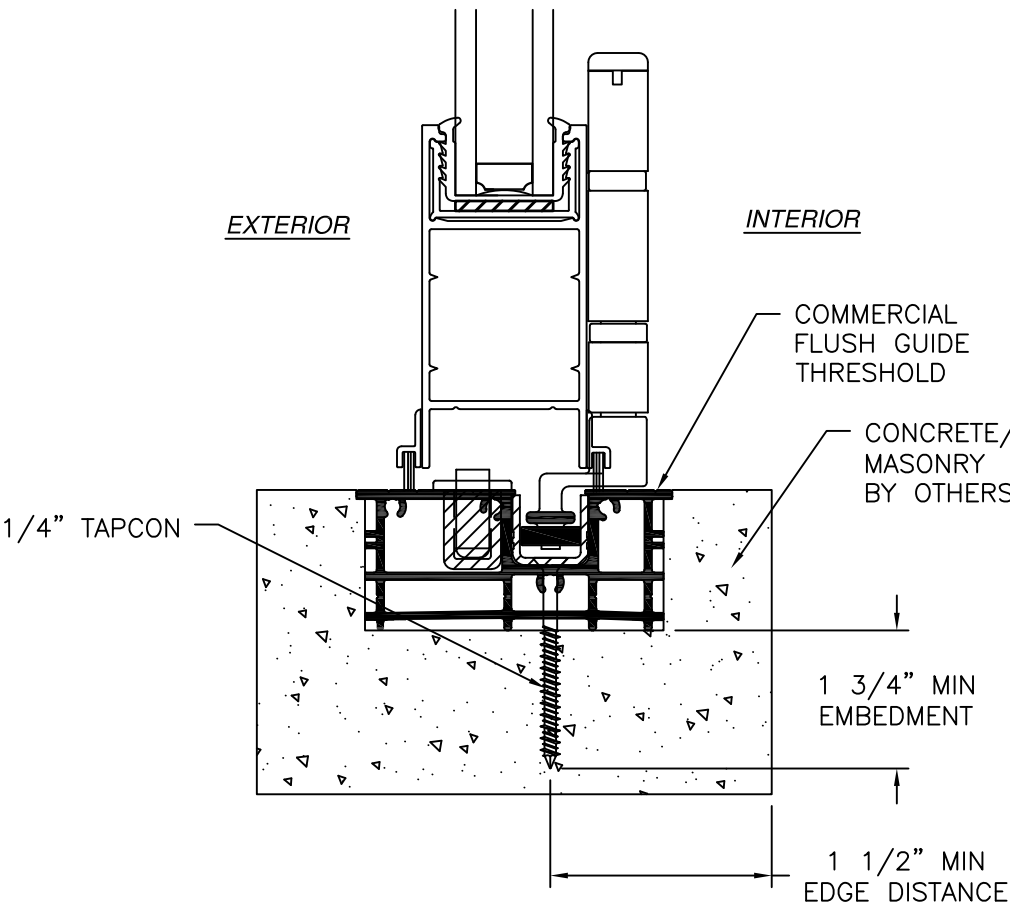


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CORROSION CHART	10/14/26	R.L.



VERTICAL CROSS SECTION
WOOD FRAMING INSTALLATION
COMMERCIAL FLUSH GUIDE THRESHOLD



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
COMMERCIAL FLUSH GUIDE THRESHOLD

- NOTES:
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 10/14/2026



LANAI DOORS

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SCALE NTS

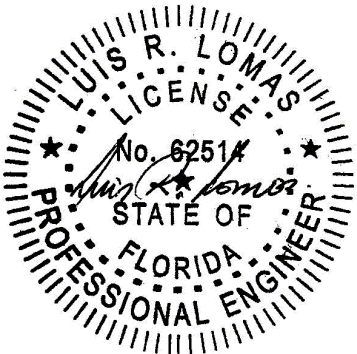
DATE 09/18/2020

SHEET 9 OF 11

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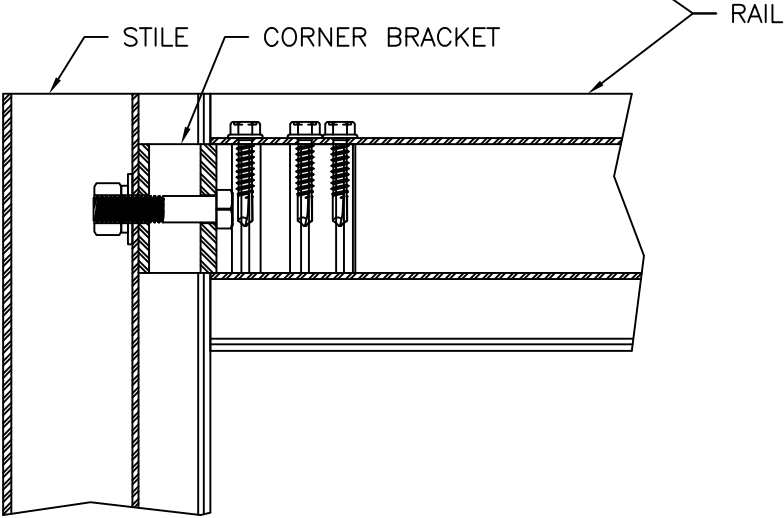
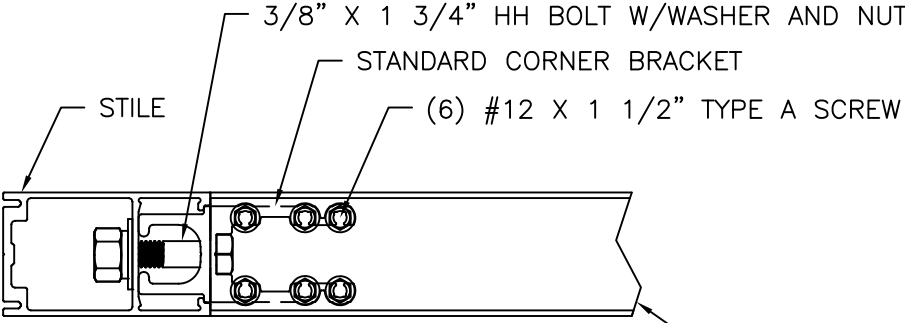
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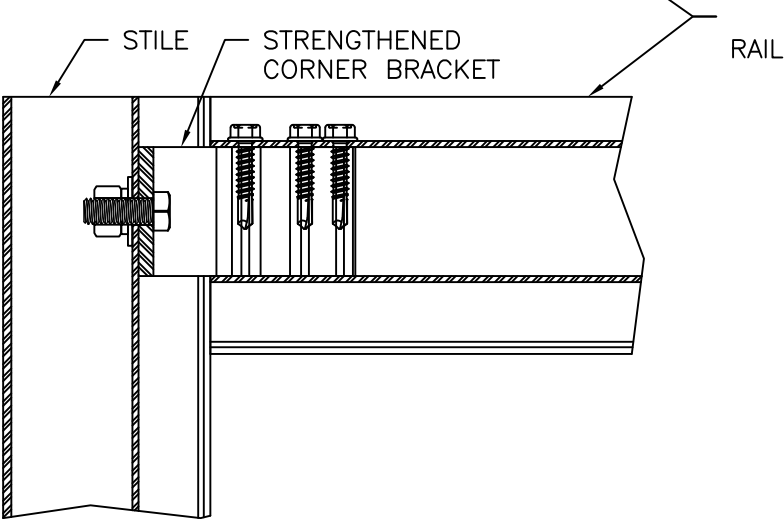
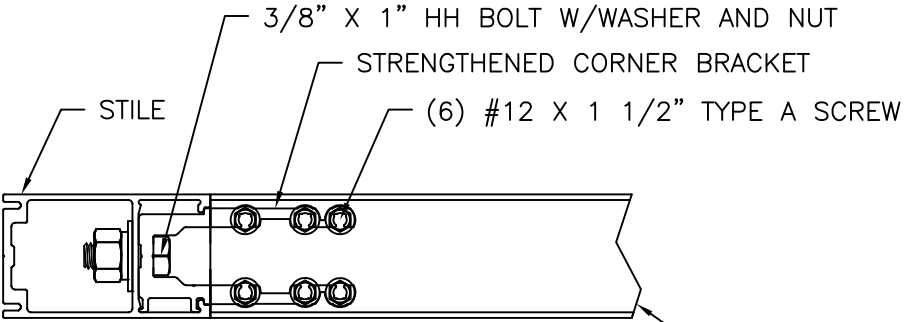


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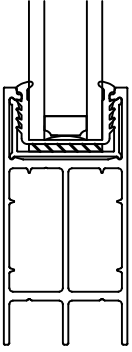
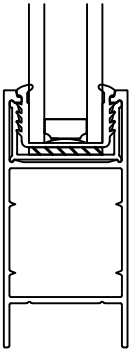
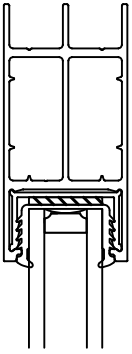
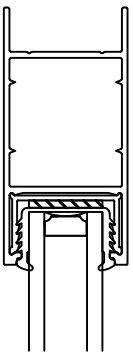


CORNER CONNECTION
W/ STANDARD CORNER BRACKET



CORNER CONNECTION
W/ STRENGTHENED CORNER BRACKET

APPROVED PANELS



STANDARD RAIL

STRENGTHENED RAIL



LANAI DOORS

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SERIES E3 HURRICANE OUTSWING
ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ
INSTALLATION DETAILS AND GLAZING DETAILS

DRAWN: A.R.

DWG NO. 08-03612

REV A

SCALE NTS

DATE 09/18/2020

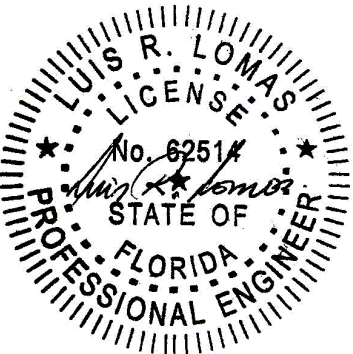
SHEET 10 OF 11

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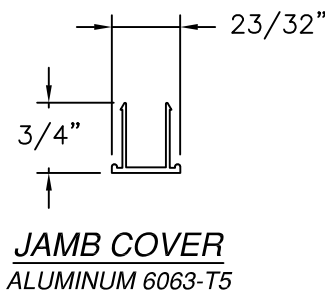
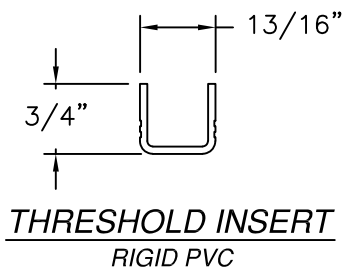
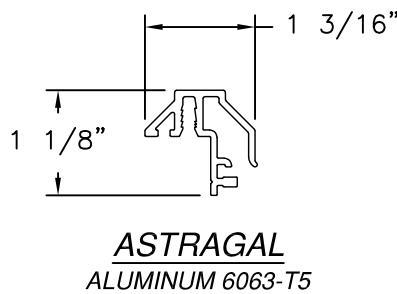
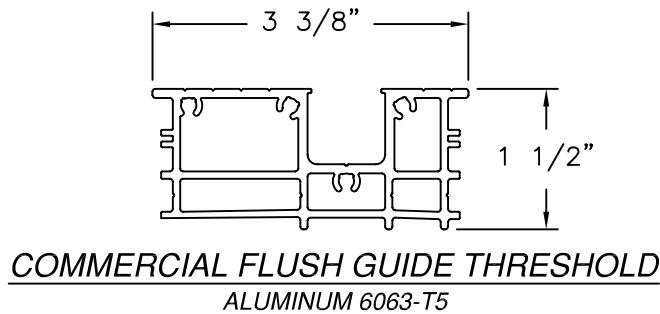
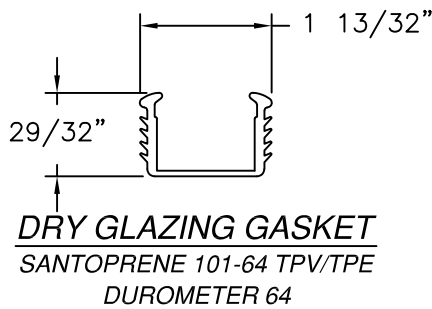
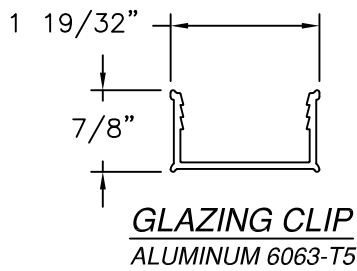
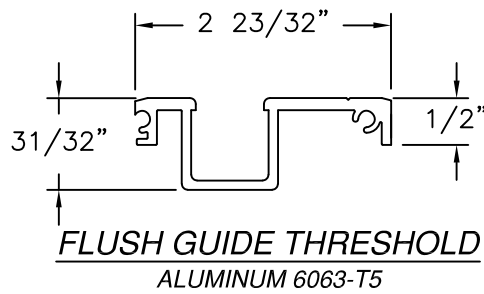
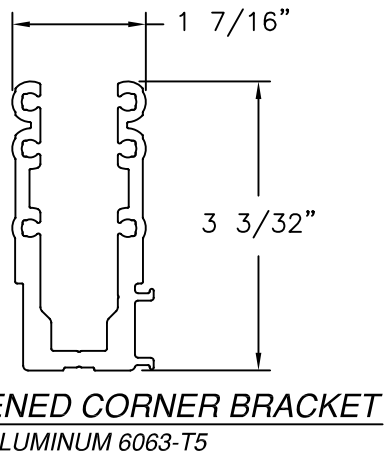
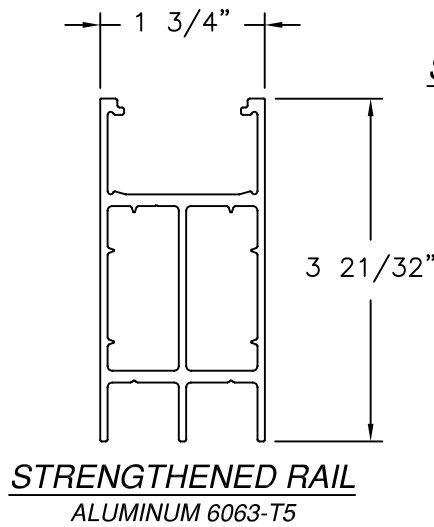
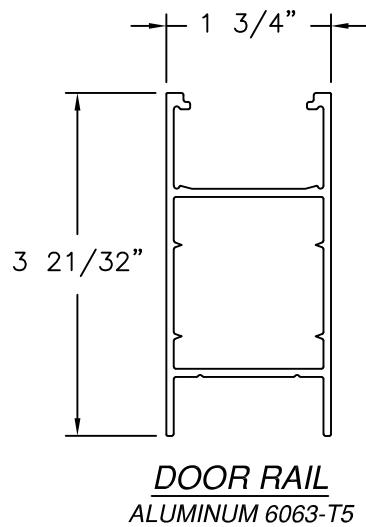
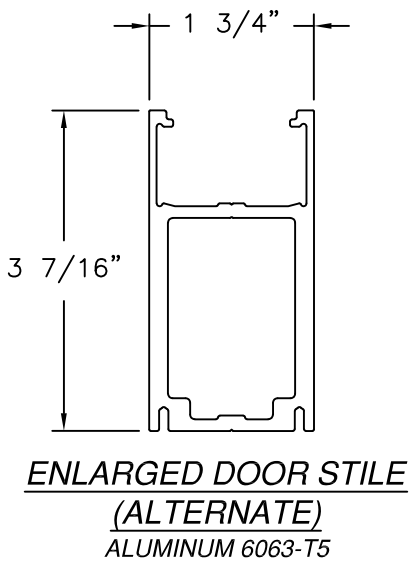
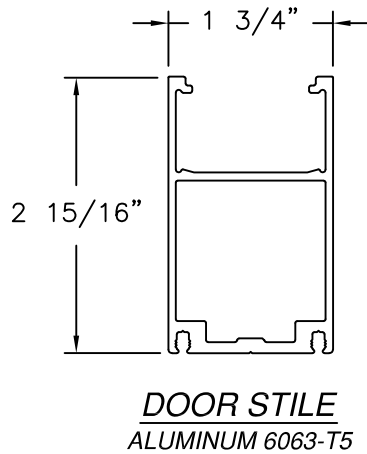
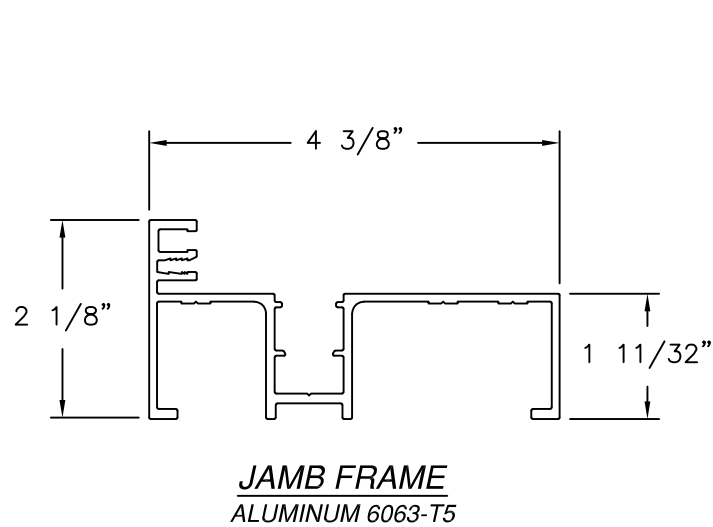
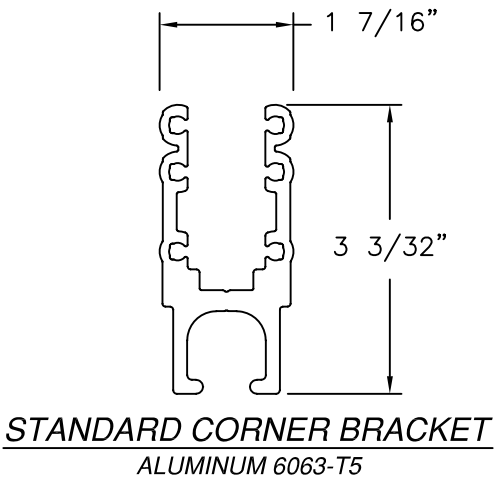
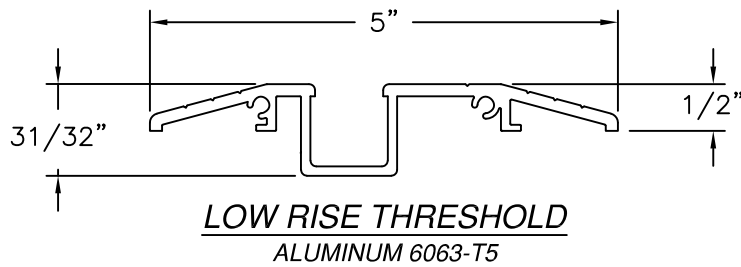
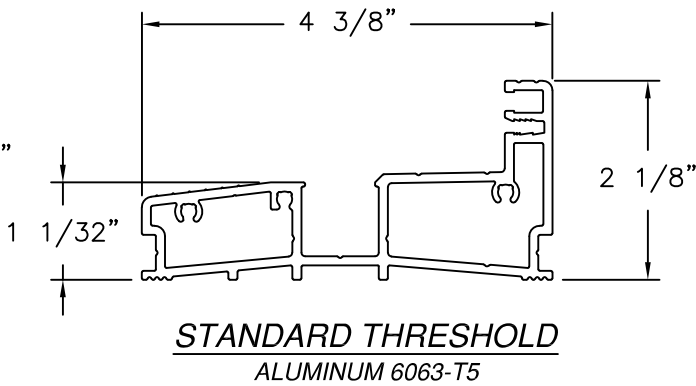
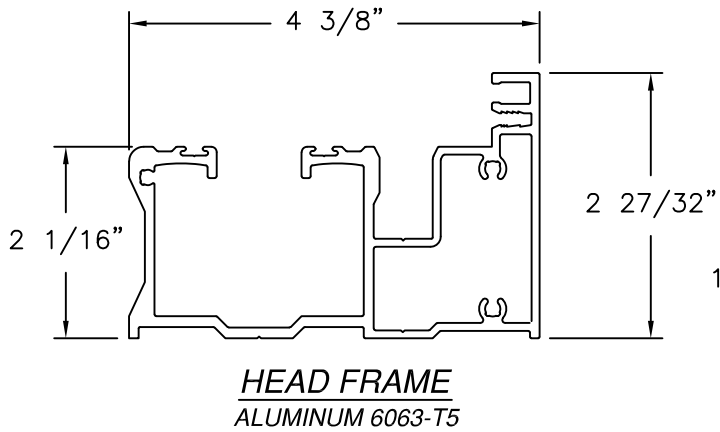
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ALUMINUM BI-FOLD DOOR, NON-IMPACT HVHZ
COMPONENTS

DRAWN:
A.R.

DWG NO.
08-03612

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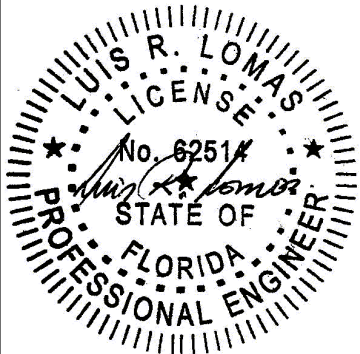
SCALE
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DATE
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SHEET
11 OF 11

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