

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	03/15/2023	R.L.

NOTES:

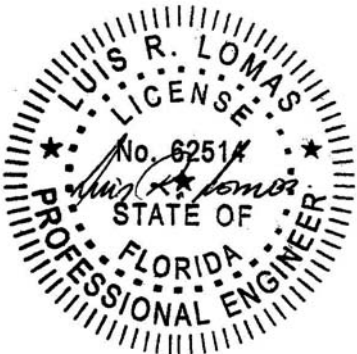
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING METAL STRUCTURE AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT 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: 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 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.
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 #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.
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 .125" THICK MINIMUM

SIGNED: 10/19/2023

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KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
220 VINYL TWIN PICTURE WINDOW W/TRANSOM CHS NON-IMPACT NOTES		
DRAWN: A.R.	DWG NO. 08-03650	REV A
SCALE NTS	DATE 12/07/2020	SHEET 1 OF 7
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

Chart #1
Rating for units with 12 inches transom height (psf)

Window Height (in)	Frame width (in)													
	36.0		48.0		60.0		72.0		80.0		84.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	38.0	38.0
30.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	32.9	32.9
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	29.1	29.1
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	26.1	26.1
48.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	41.1	41.1	23.8	23.8
54.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	37.7	37.7	21.9	21.9
60.0	45.0	45.0	45.0	45.0	45.0	45.0	41.3	41.3	39.0	39.0	34.9	34.9	20.2	20.2
66.0	45.0	45.0	45.0	45.0	40.8	40.8	36.1	36.1	33.9	33.9	32.4	32.4	18.8	18.8
72.0	45.0	45.0	43.3	43.3	36.5	36.5	32.1	32.1	30.0	30.0	28.9	28.9	17.6	17.6
78.0	45.0	45.0	36.0	36.0	29.4	29.4	25.2	25.2	23.1	23.1	22.3	22.3	16.5	16.5
84.0	37.6	37.6	28.6	28.6	23.4	23.4	19.9	19.9	18.2	18.2	17.6	17.6	-	-
90.0	30.5	30.5	23.2	23.2	18.9	18.9	16.0	16.0	-	-	-	-	-	-
96.0	25.1	25.1	19.0	19.0	-	-	-	-	-	-	-	-	-	-
108.0	17.6	17.6	-	-	-	-	-	-	-	-	-	-	-	-

Chart #2
Rating for units with 24 inches transom height (psf)

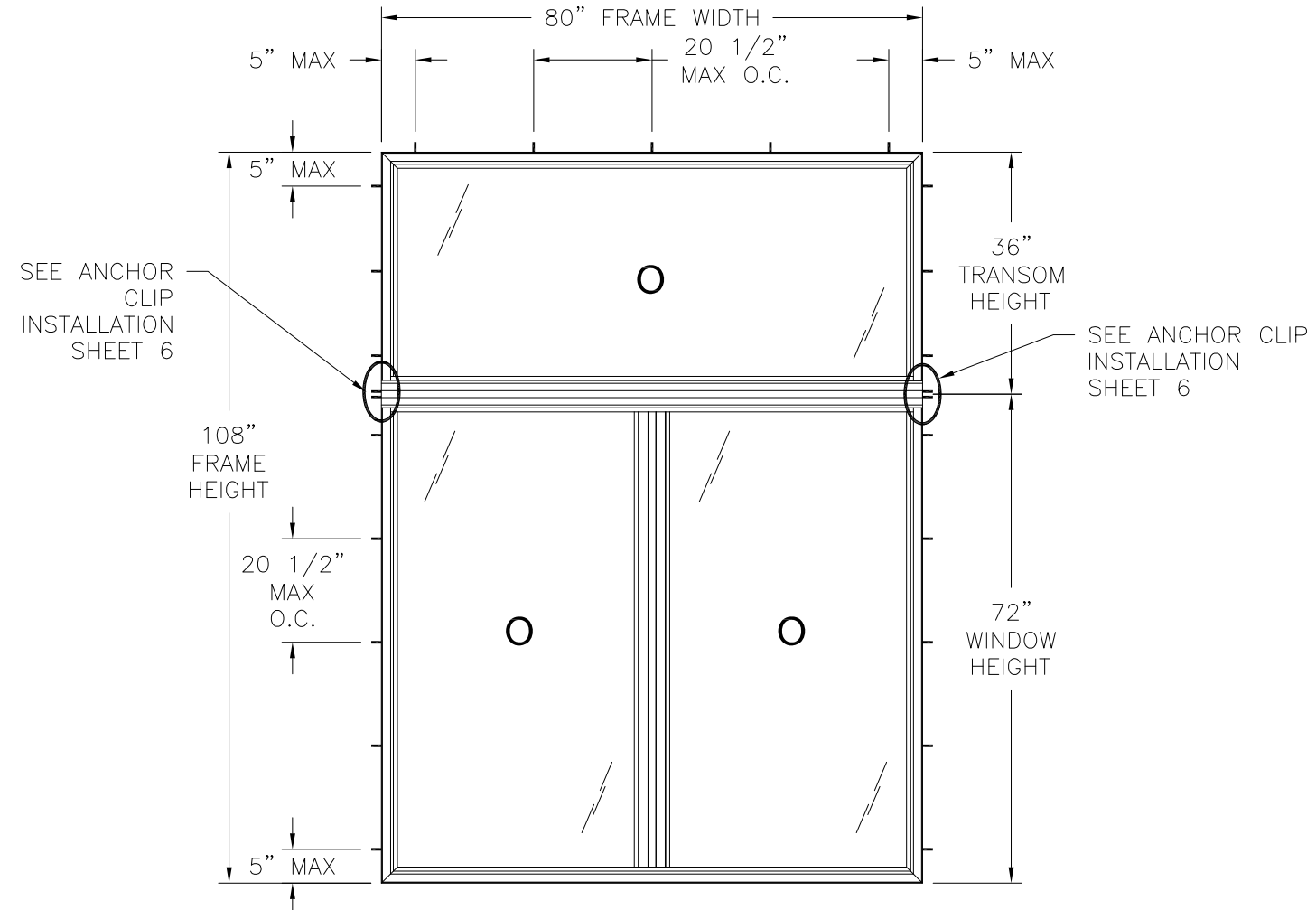
Window Height (in)	Frame width (in)													
	36.0		48.0		60.0		72.0		80.0		84.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	29.6	29.6
30.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	26.4	26.4
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	41.3	41.3	23.8	23.8
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	43.1	43.1	37.8	37.8	21.8	21.8
48.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	40.8	40.8	35.0	35.0	20.2	20.2
54.0	45.0	45.0	45.0	45.0	45.0	45.0	44.0	44.0	38.6	38.6	32.5	32.5	18.8	18.8
60.0	45.0	45.0	45.0	45.0	45.0	45.0	41.3	41.3	36.7	36.7	30.4	30.4	17.5	17.5
66.0	45.0	45.0	45.0	45.0	40.8	40.8	36.1	36.1	33.9	33.9	28.5	28.5	16.5	16.5
72.0	45.0	45.0	43.3	43.3	36.5	36.5	32.1	32.1	30.0	30.0	26.8	26.8	-	-
78.0	45.0	45.0	36.0	36.0	29.4	29.4	25.2	25.2	23.1	23.1	22.3	22.3	-	-
84.0	37.6	37.6	28.6	28.6	23.4	23.4	19.9	19.9	18.2	18.2	17.6	17.6	-	-
90.0	30.5	30.5	23.2	23.2	18.9	18.9	16.0	16.0	-	-	-	-	-	-
96.0	25.1	25.1	19.0	19.0	-	-	-	-	-	-	-	-	-	-
108.0	17.6	17.6	-	-	-	-	-	-	-	-	-	-	-	-

Chart #3
Rating for units with 36 inches transom height (psf)

Window Height (in)	Frame width (in)													
	36.0		48.0		60.0		72.0		80.0		84.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	43.2	43.2	24.9	24.9
30.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	42.4	42.4	39.3	39.3	22.6	22.6
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	39.7	39.7	36.1	36.1	20.7	20.7
42.0	45.0	45.0	45.0	45.0	45.0	45.0	43.2	43.2	37.6	37.6	33.4	33.4	19.2	19.2
48.0	45.0	45.0	45.0	45.0	45.0	45.0	41.1	41.1	35.8	35.8	31.2	31.2	17.9	17.9
54.0	45.0	45.0	45.0	45.0	45.0	45.0	39.1	39.1	34.2	34.2	29.2	29.2	16.8	16.8
60.0	45.0	45.0	45.0	45.0	45.0	45.0	37.3	37.3	32.7	32.7	27.4	27.4	-	-
66.0	45.0	45.0	45.0	45.0	40.8	40.8	35.7	35.7	31.3	31.3	25.9	25.9	-	-
72.0	45.0	45.0	43.3	43.3	36.5	36.5	32.1	32.1	30.0	30.0	24.5	24.5	-	-
78.0	45.0	45.0	36.0	36.0	29.4	29.4	25.2	25.2	23.1	23.1	22.3	22.3	-	-
84.0	37.6	37.6	28.6	28.6	23.4	23.4	19.9	19.9	18.2	18.2	17.6	17.6	-	-
90.0	30.5	30.5	23.2	23.2	18.9	18.9	16.0	16.0	-	-	-	-	-	-
96.0	25.1	25.1	19.0	19.0	-	-	-	-	-	-	-	-	-	-
108.0	17.6	17.6	-	-	-	-	-	-	-	-	-	-	-	-

- NOTES:
- TRANSOM D.L.O.: 74 1/4" X 30 3/4"
 - FIXED D.L.O.: 34 3/4" X 66 3/4"

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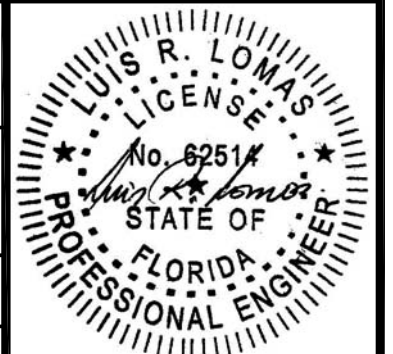
220 VINYL TWIN PICTURE WINDOW W/TRANSOM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±30.0PSF	NONE

FOR ADDITIONAL SIZES SEE CHART #1, #2 & #3 THIS SHEET

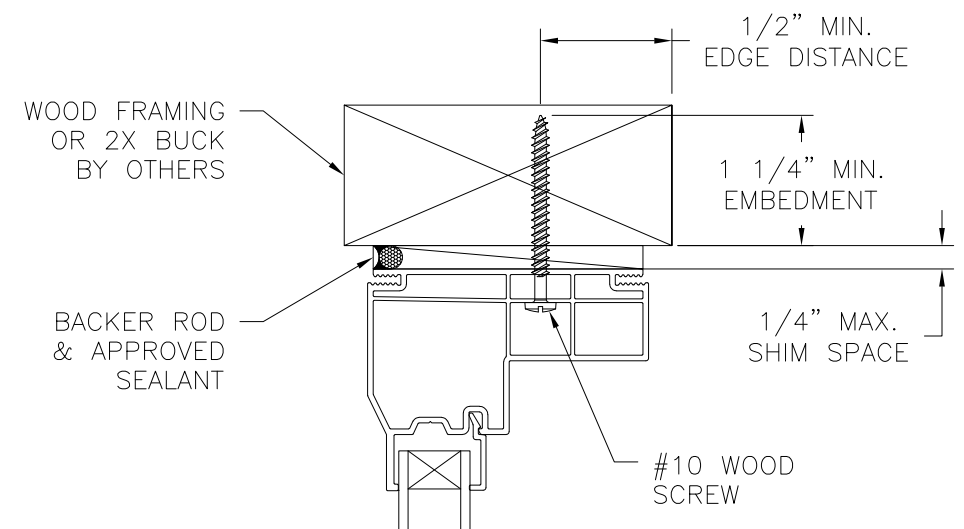
SIGNED: 10/19/2023

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
220 VINYL TWIN PICTURE WINDOW W/TRANSOM CHS NON-IMPACT ELEVATIONS		
DRAWN: A.R.	DWG NO. 08-03650	REV A
SCALE NTS	DATE 12/07/2020	SHEET 2 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



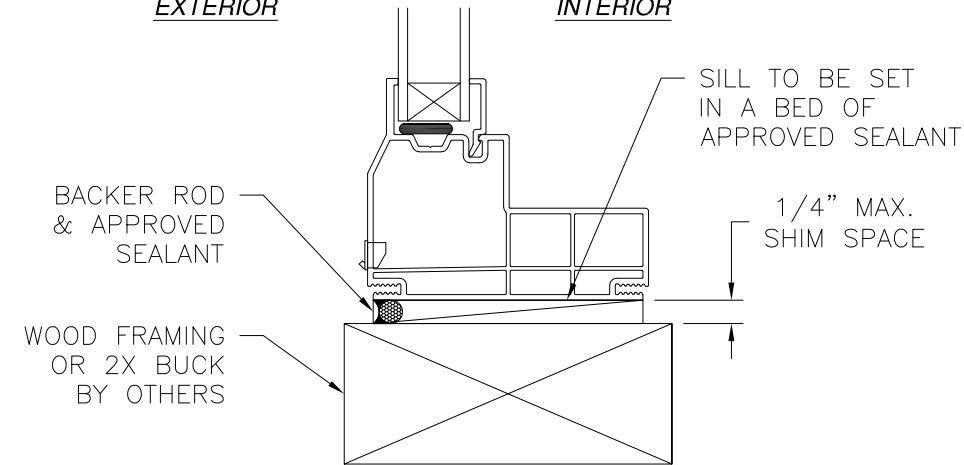
Luis R. Lomas P.E.
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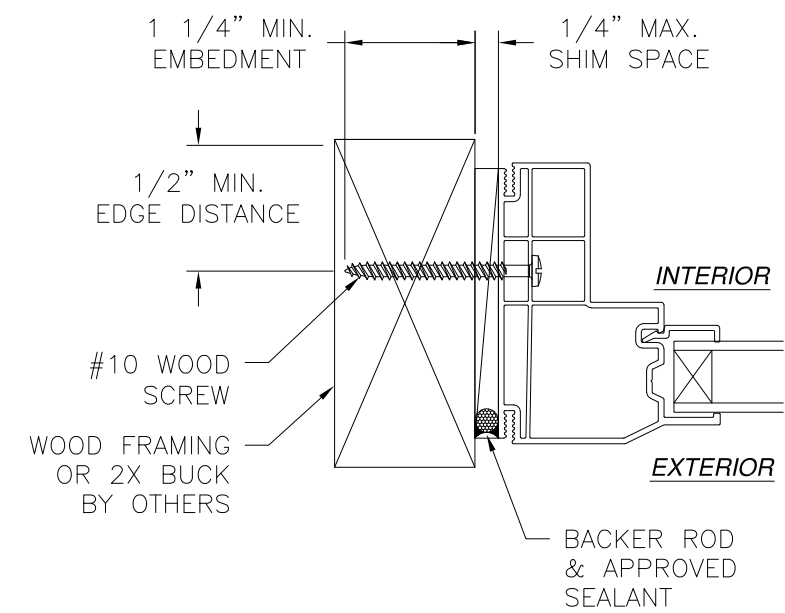


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

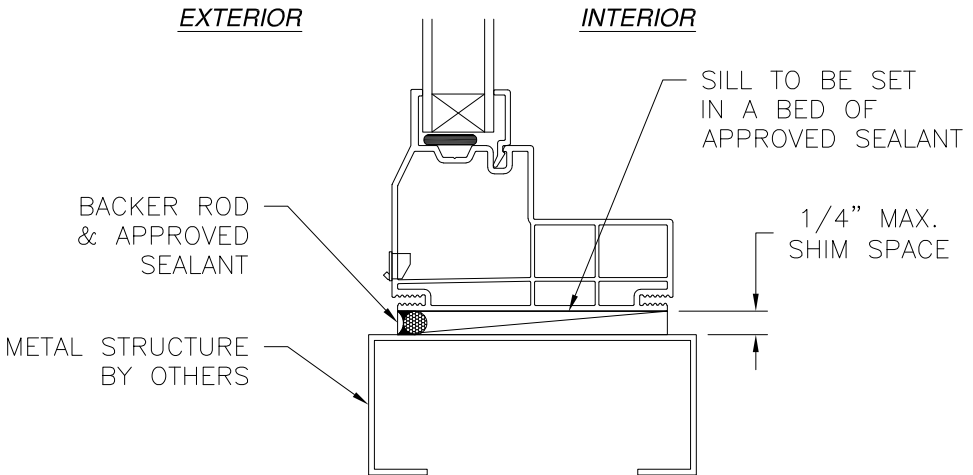
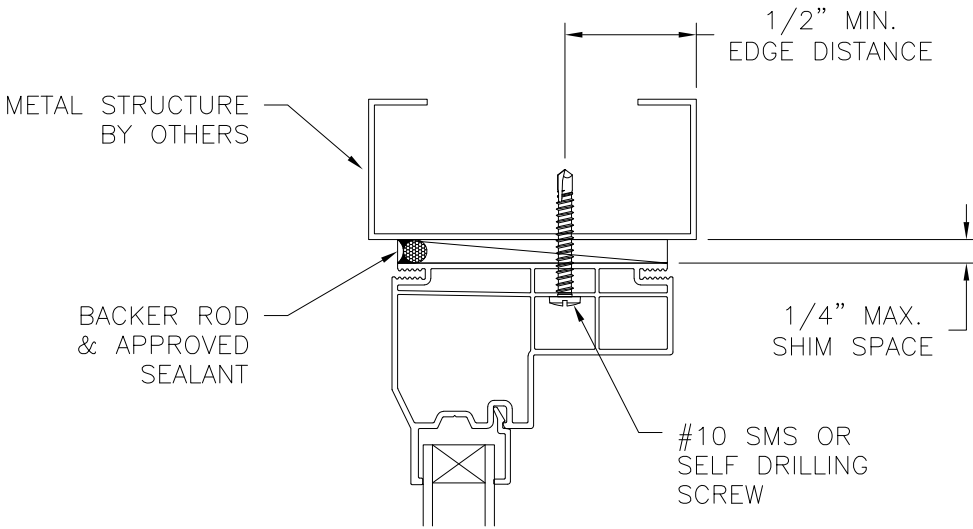
- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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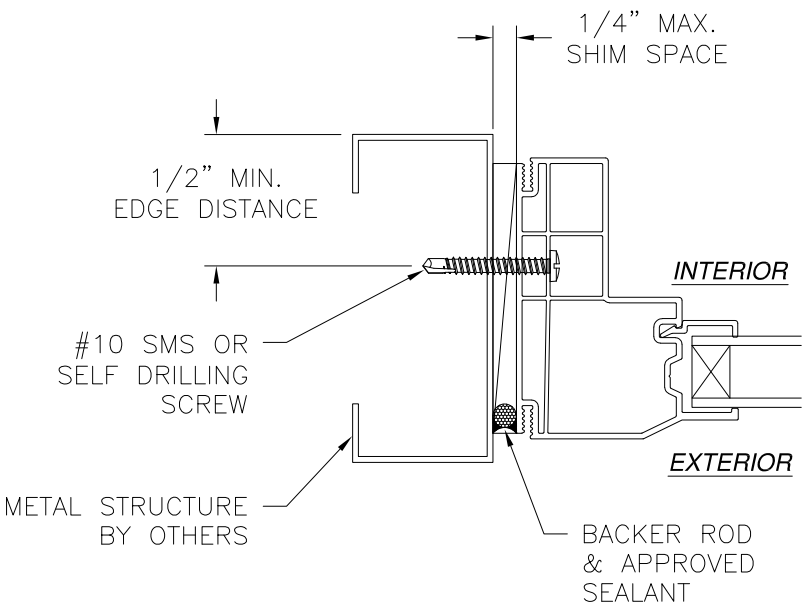
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220 VINYL TWIN PICTURE WINDOW W/TRANSOM CHS NON-IMPACT INSTALLATION DETAILS		
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SCALE NTS	DATE 12/07/2020	SHEET 3 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

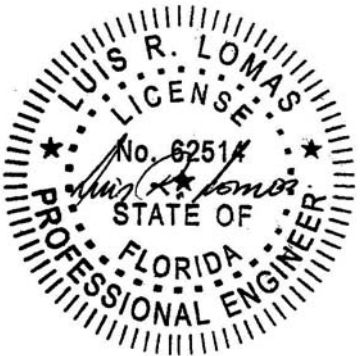


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

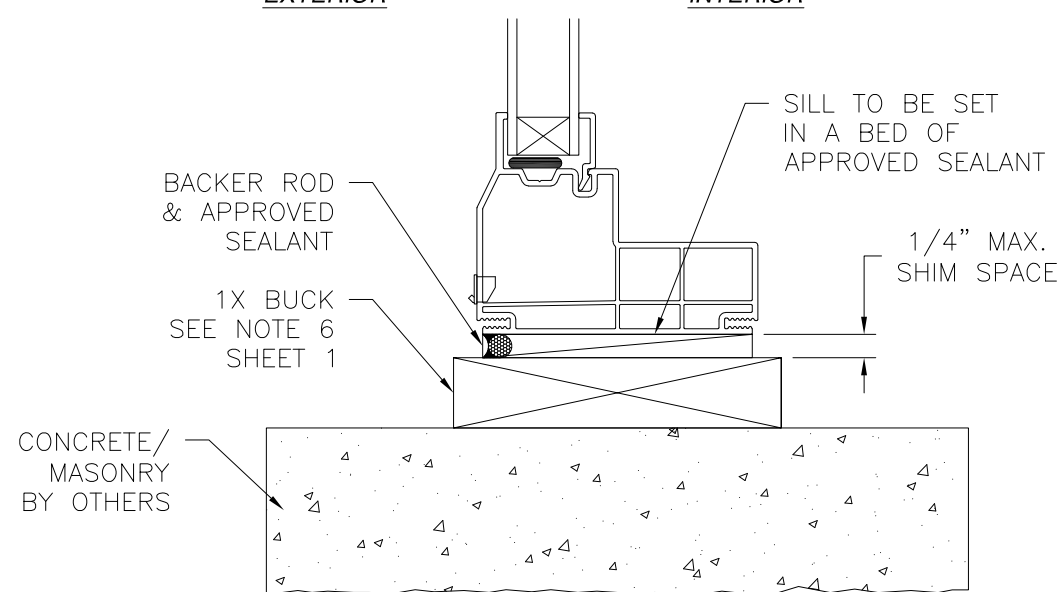
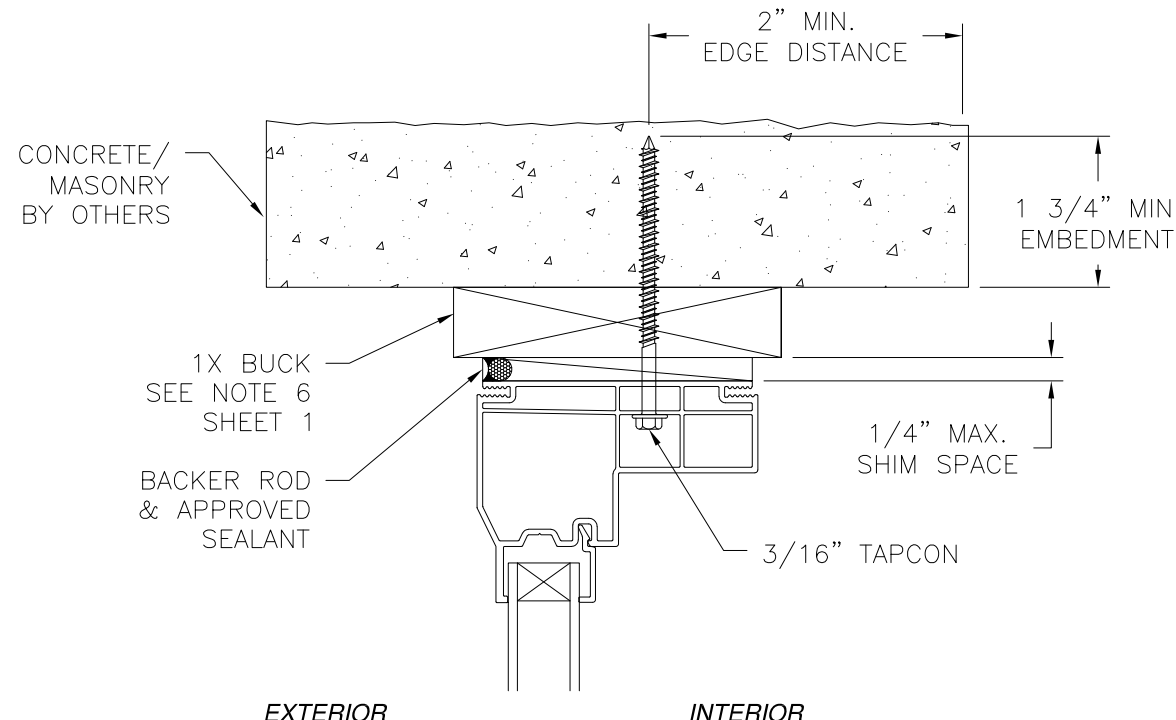
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 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 10/19/2023

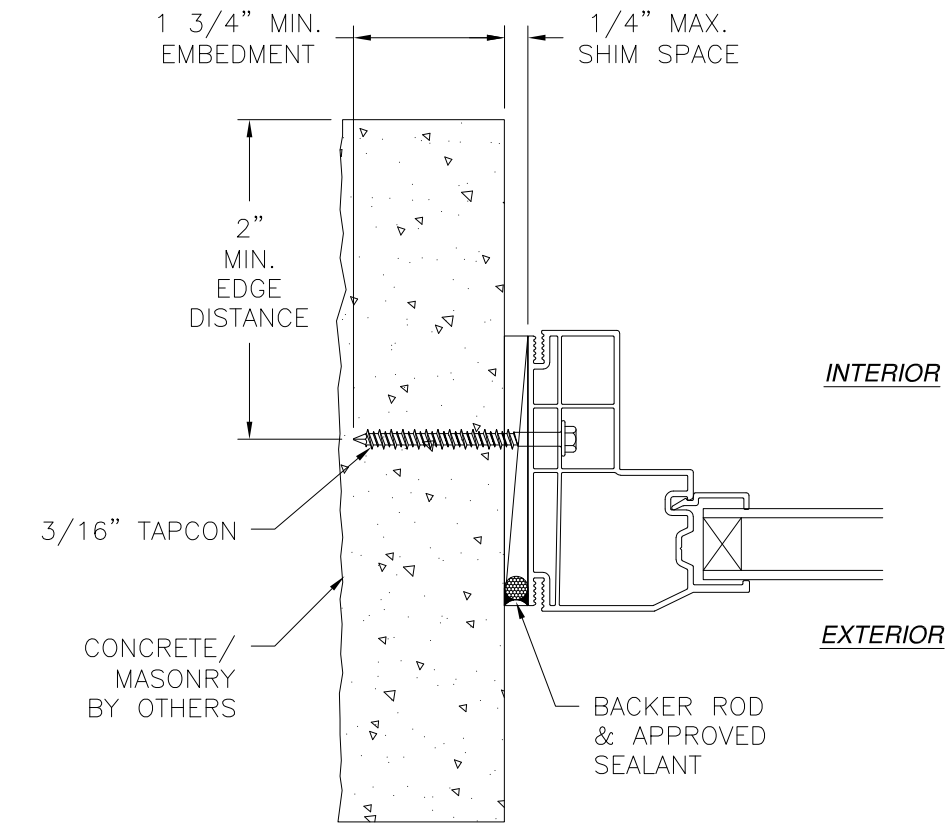
KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
220 VINYL TWIN PICTURE WINDOW W/TRANSOM CHS NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03650	REV A
SCALE NTS	DATE 12/07/2020	SHEET 4 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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



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



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

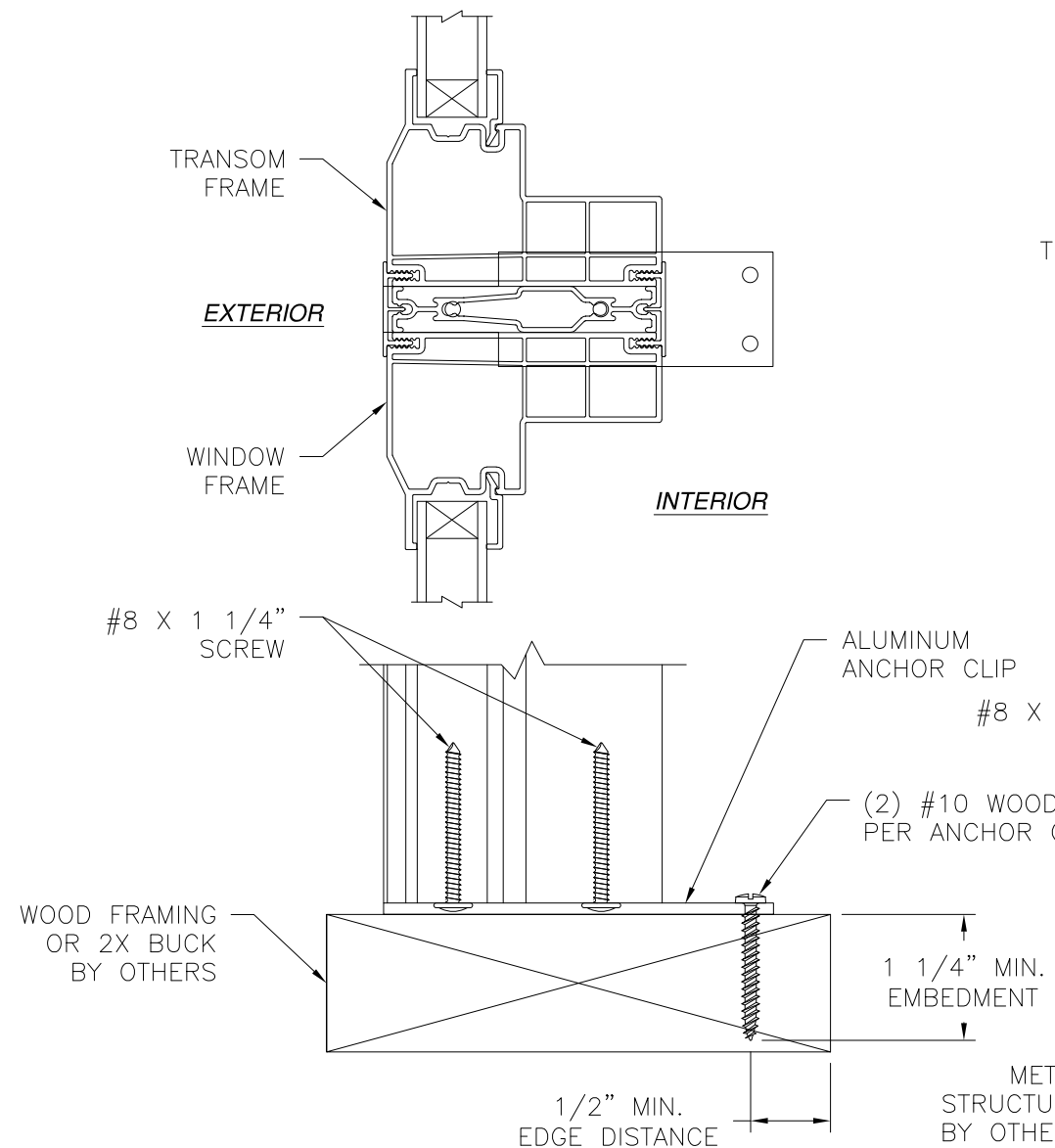
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KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
220 VINYL TWIN PICTURE WINDOW W/TRANSOM CHS NON-IMPACT INSTALLATION DETAILS		
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SCALE NTS	DATE 12/07/2020	SHEET 5 OF 7
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

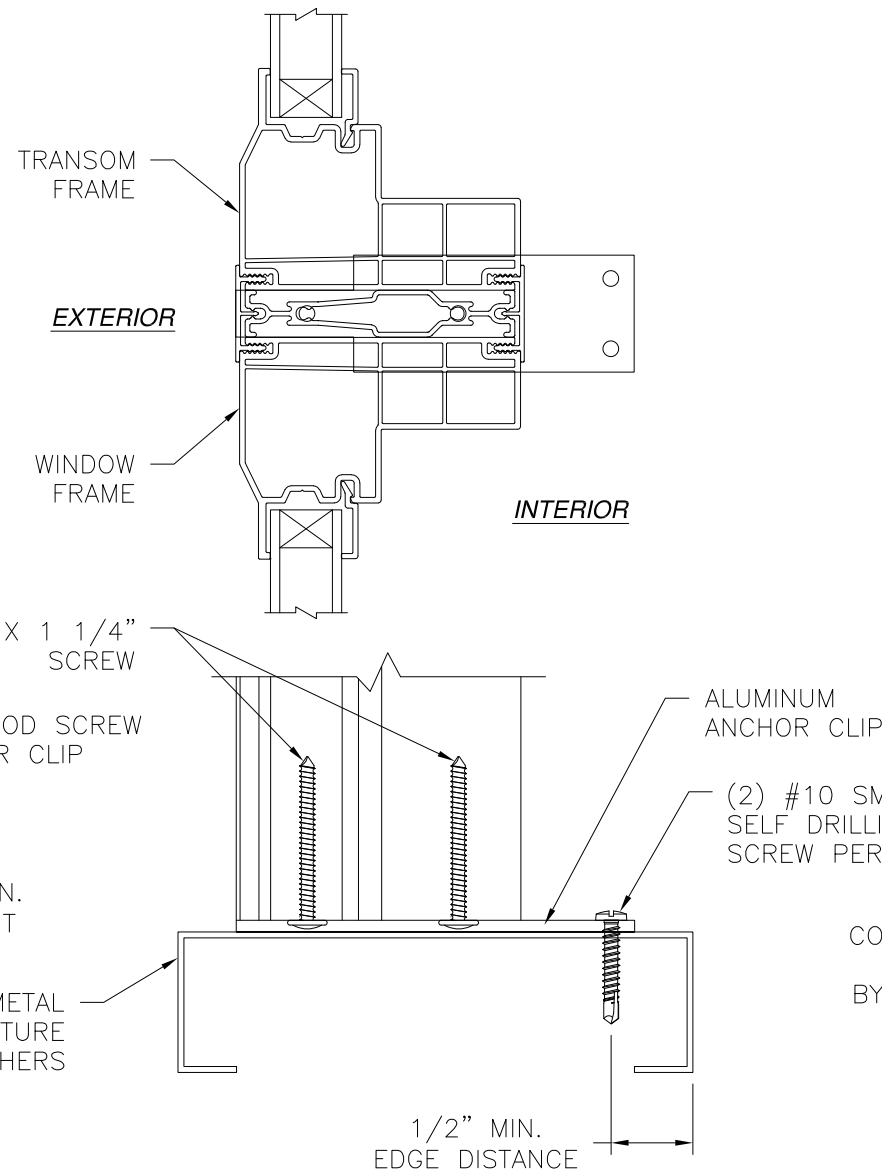
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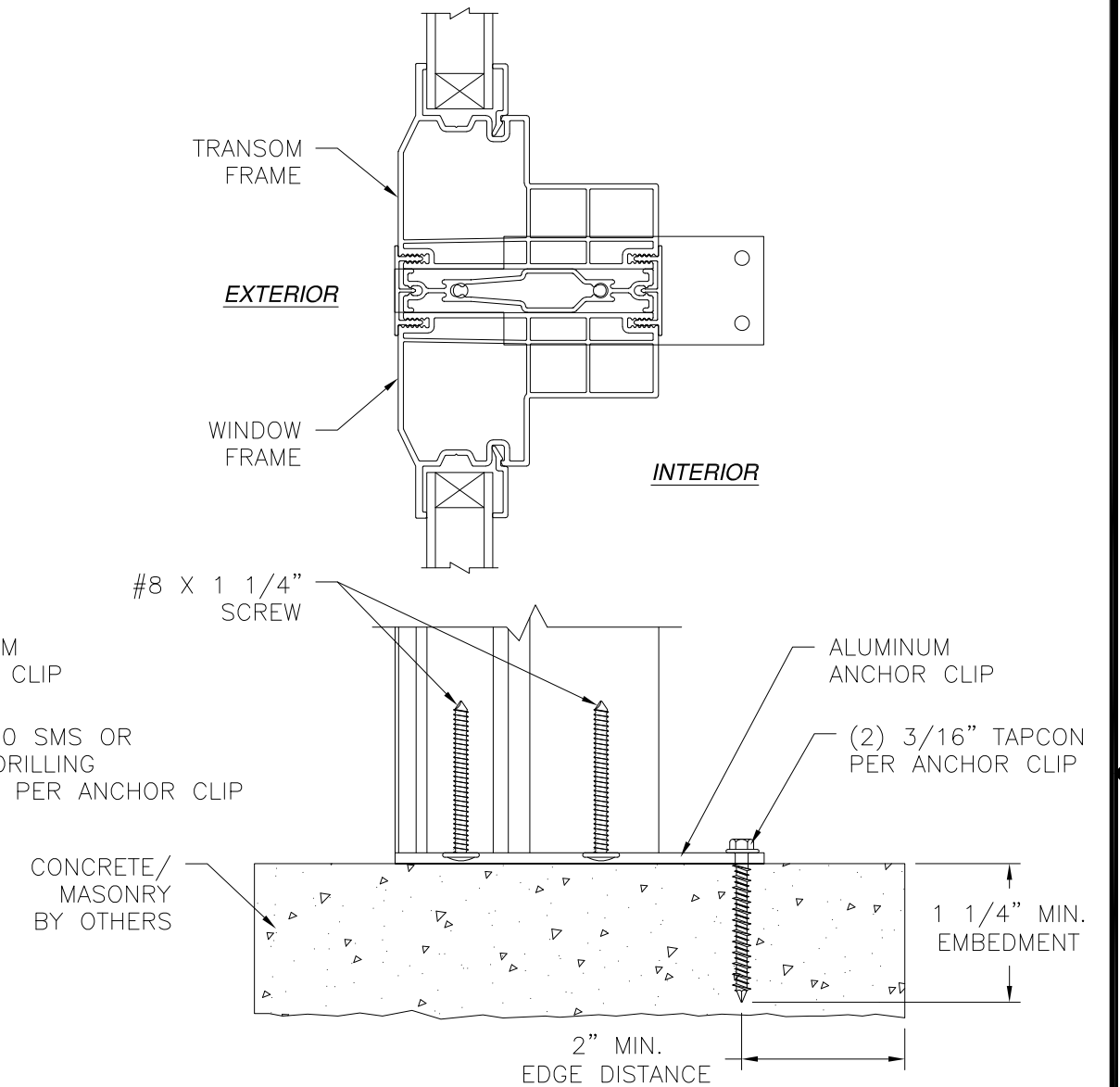
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HORIZONTAL MULLION ANCHOR CLIP DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



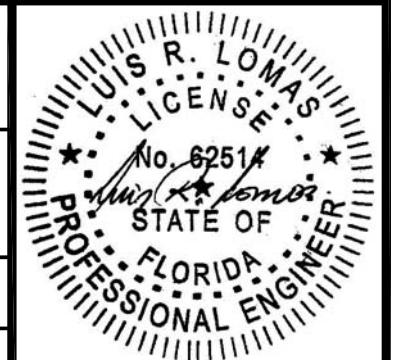
HORIZONTAL MULLION ANCHOR CLIP DETAIL
METAL STRUCTURE INSTALLATION



HORIZONTAL MULLION ANCHOR CLIP DETAIL
CONCRETE/MASONRY INSTALLATION

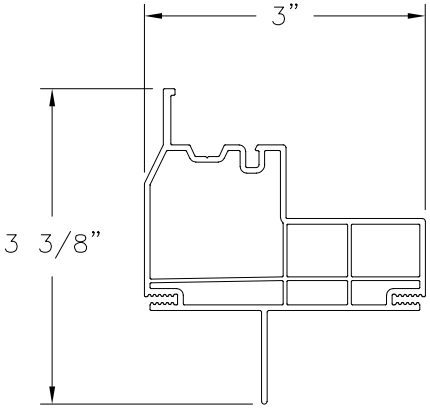
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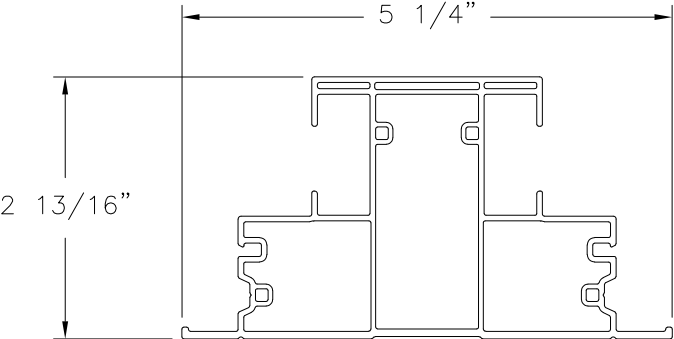


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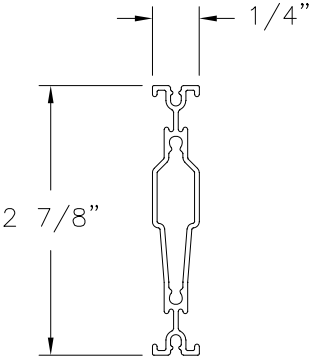
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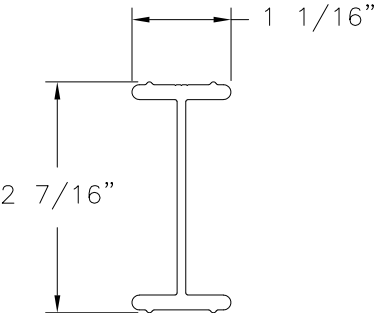
MAIN FRAME (CH9201A)
FIN INSTALLATION
EXTRUDED RIGID PVC



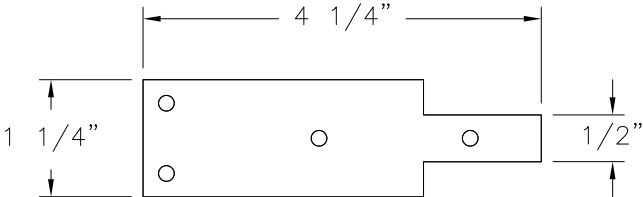
COMMON JAMB (CH9286)
EXTRUDED RIGID PVC



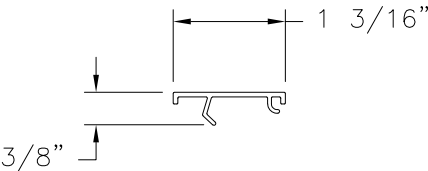
**TRANSOM/MULLION
REINFORCEMENT (206)**
ALUMINUM 6063-T5



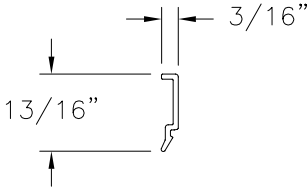
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REINFORCEMENT (M-14868)**
ALUMINUM 6063-T5



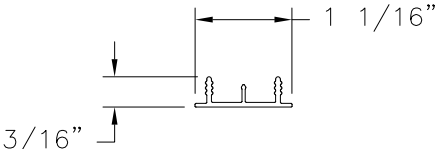
ANCHOR CLIP
ALUMINUM 6061-T6



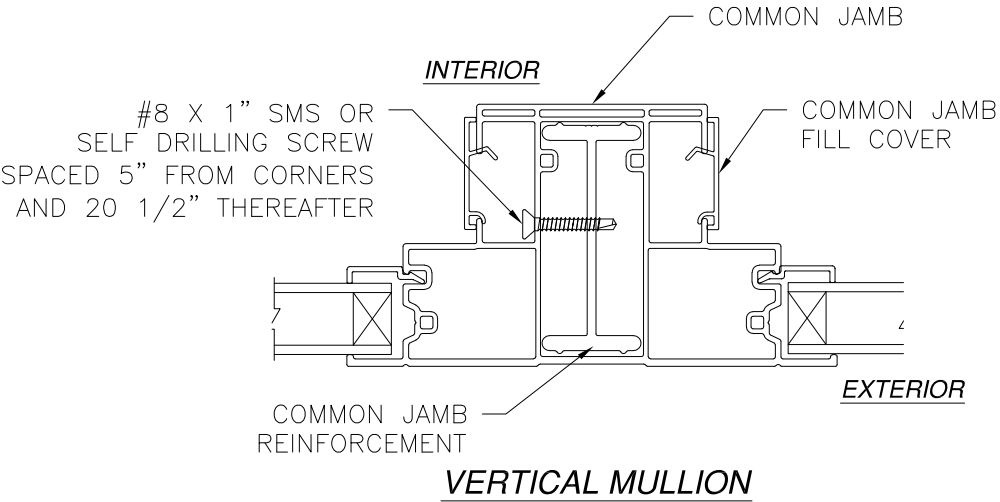
**COMMON JAMB (037-R)
FILL COVER**
EXTRUDED RIGID PVC



GLAZING BEAD (1703-R)
EXTRUDED RIGID PVC



TRANSOM/MULLION COVER
EXTRUDED RIGID PVC



KRESTMARK INDUSTRIES, L.P.

3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

220 VINYL TWIN PICTURE WINDOW W/TRANSOM

CHS NON-IMPACT COMPONENTS

DRAWN: A.R.

DWG NO. 08-03650

REV A

SCALE NTS

DATE 12/07/2020

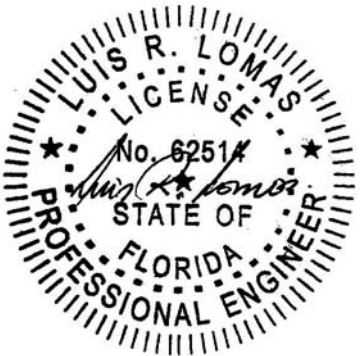
SHEET 7 OF 7

L. ROBERTO LOMAS P.E.

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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/19/2023



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