

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	02/10/2026	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. 2X BUCK OVER MASONRY/CONCRETE TO BE PROPERLY SECURED TO BUILDING STRUCTURE. DESIGN AND ANCHORING OF 2X BUCK IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. JAMB EXTENSION MATERIAL: WOOD SPECIFIC GRAVITY G=0.59 MINIMUM (INCLUDES BUT IS NOT LIMITED TO: LARCH, SIPO, MERANTI, MAHOGANY, WHITE OAK, WALNUT)
6. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
7. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
8. WINDOWS OR DOORS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY BILDAU & BUSSMANN GMBH.
9. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
10. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.

ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH INSTALLATION CLIP USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 2” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
2. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH FRAME USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
3. FOR ATTACHING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE SCREWS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. ALL FASTENERS TO BE CORROSION RESISTANT.
5. 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. METAL STRUCTURE: STEEL 16GA, 33KSI OR ALUMINUM 6063–T5 1/8” THICK MINIMUM

SIGNED: 02/11/2026

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BILDAU & BUSSMANN GMBH

GERICHTSTRASSE 23

DE 13347 BERLIN, GERMANY

DOUBLE TIMBER HORIZONTAL MULLION

IMPACT 120” SPAN

NOTES

DRAWN:
R.L.

DWG NO.
08-01857A

REV
A

SCALE NTS

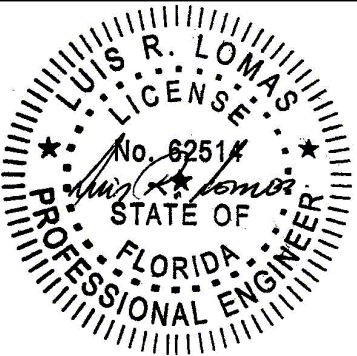
DATE 07/24/12

SHEET 1 OF 6

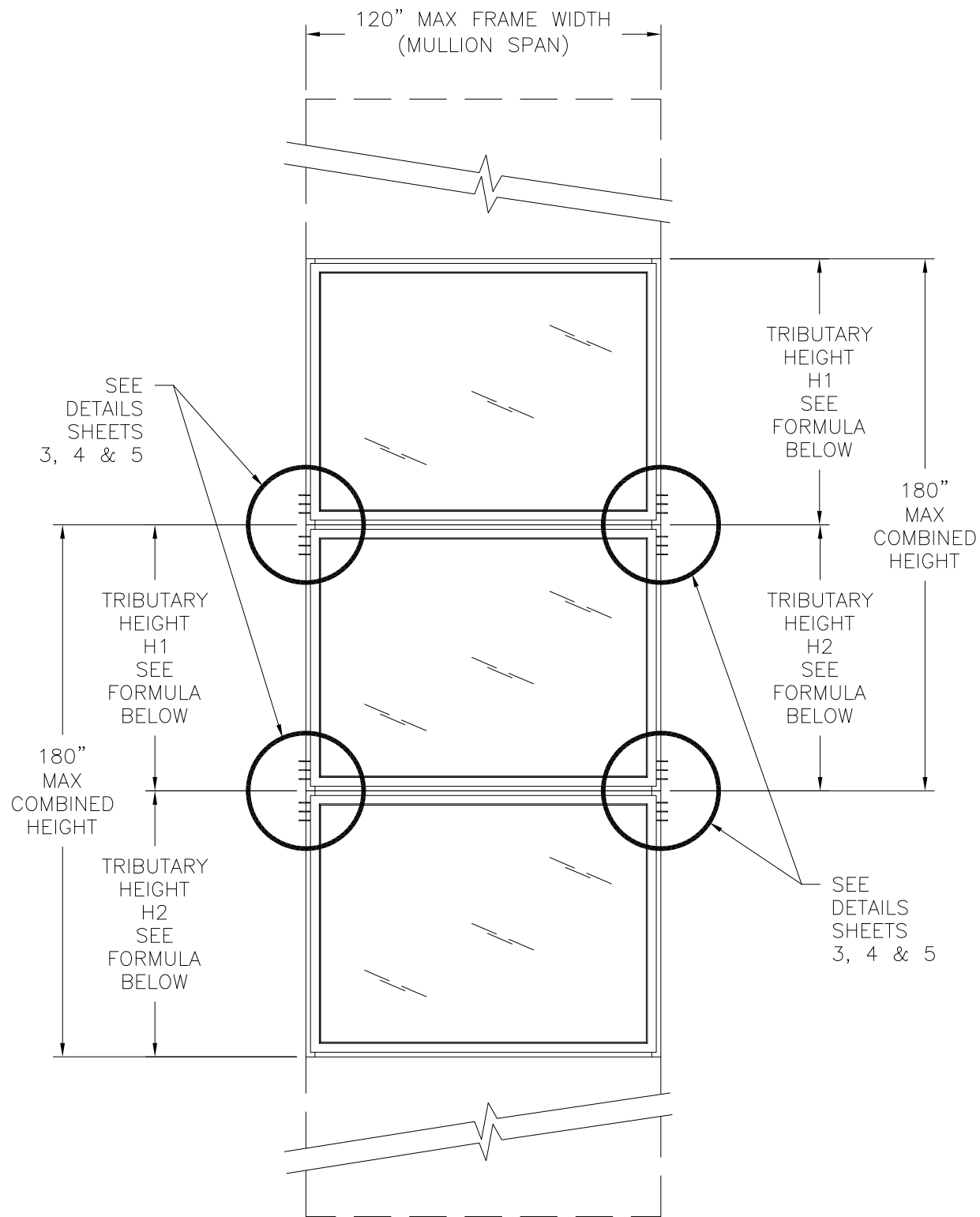
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Luis R. Lomas P.E.
FL No.: 62514



HORIZONTAL MULLION

FIXED WINDOWS SHOWN, UNLIMITED NUMBER OF PANELS IS APPLICABLE AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE AND ARE ANCHORED AS SHOWN.

DESIGN PRESSURE RATING	IMPACT RATING
±70PSF	LARGE AND SMALL MISSILE IMPACT

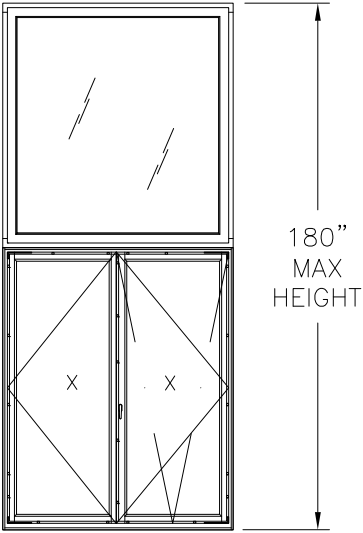
MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

COMBINED HEIGHT OF TWO ADJACENT UNITS SHALL NOT EXCEED 180". SEE FORMULA BELOW.

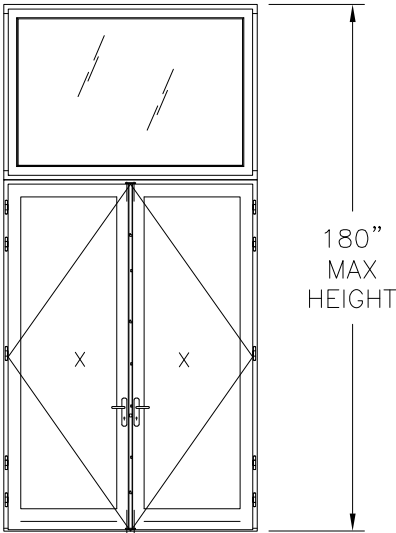
COMBINED HEIGHT = H1 + H2 =< 180

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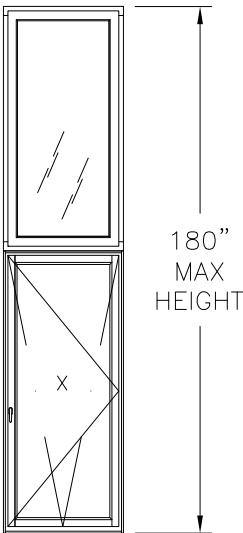
APPROVED CONFIGURATIONS



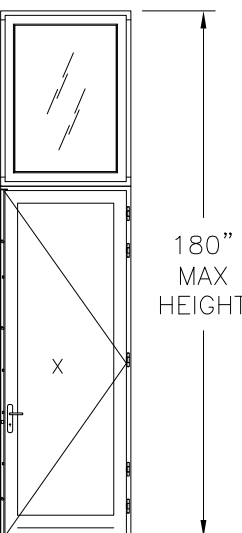
DOUBLE CASEMENT WITH FIXED WINDOW



DOUBLE DOOR WITH FIXED WINDOW



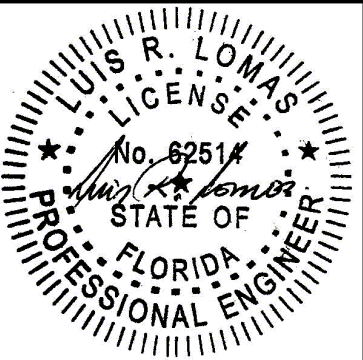
SINGLE CASEMENT WITH FIXED WINDOW



SINGLE DOOR WITH FIXED WINDOW

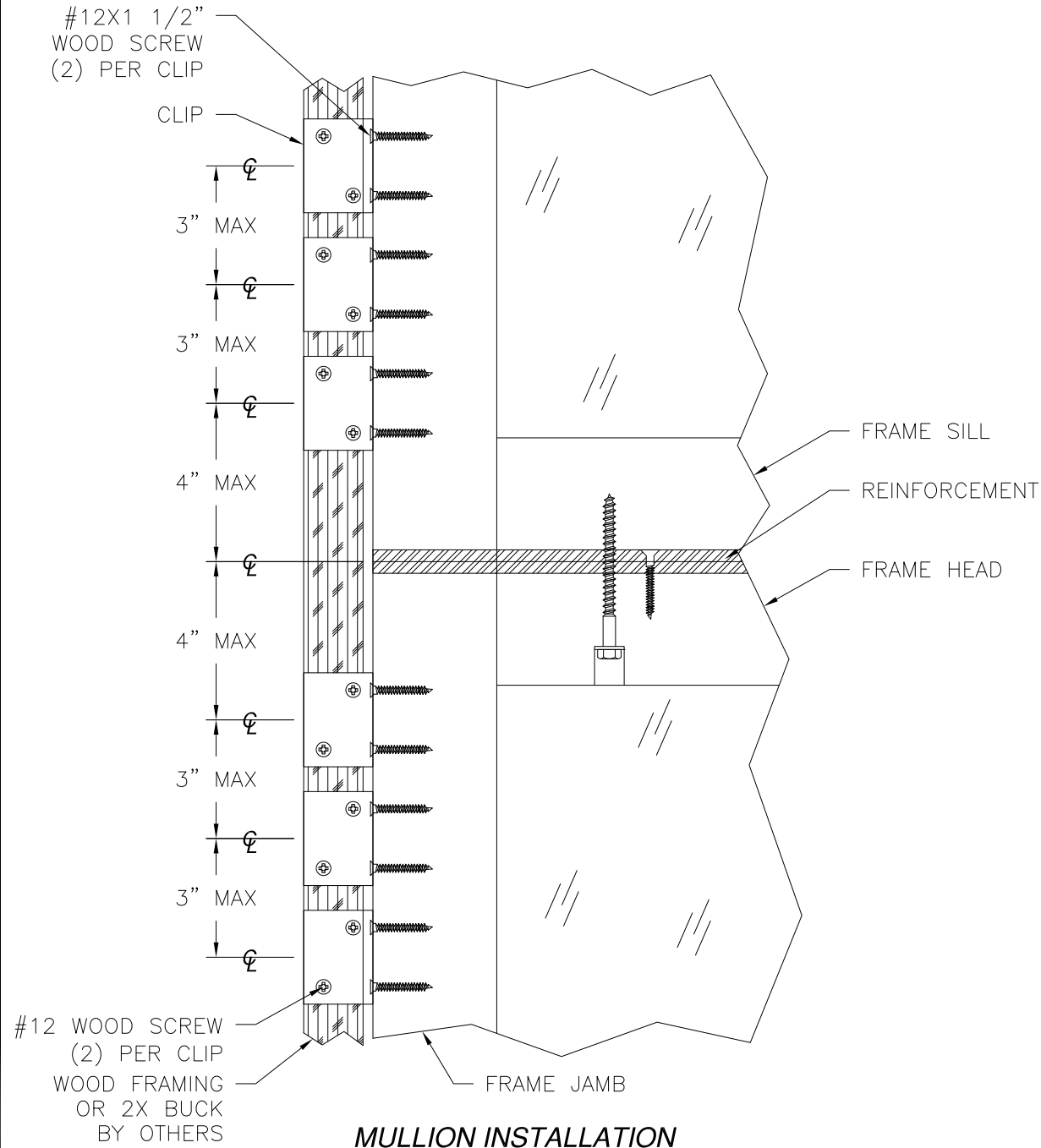
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BILDAU & BUSSMANN GMBH GERICHTSTRASSE 23 DE 13347 BERLIN, GERMANY		
DOUBLE TIMBER HORIZONTAL MULLION IMPACT 120" SPAN ELEVATION AND APPROVED CONFIGURATIONS		
DRAWN: R.L.	DWG NO. 08-01857A	REV A
SCALE NTS	DATE 07/24/12	SHEET 2 OF 6
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

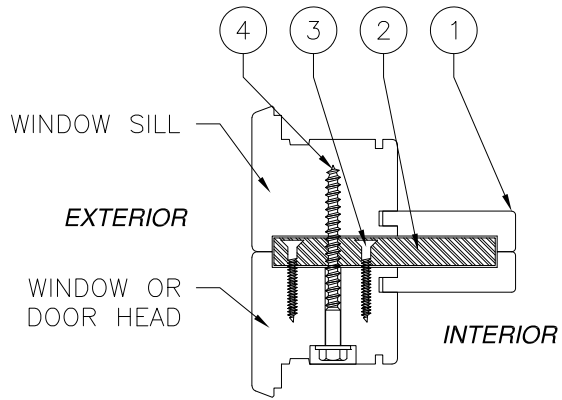


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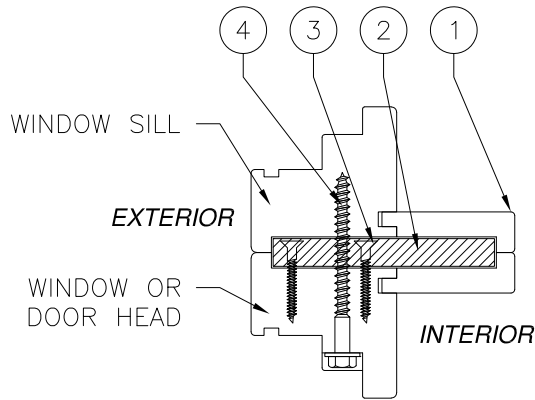
PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1		JAMB EXTENSION	B&B	WOOD SEE NOTE 5
2		REINFORCEMENT	B&B	STEEL A36
3		#12 X 2" FH WOOD SCREW		STEEL
4		5/16" X 4" LAG SCREW		STEEL
5		CLIP		GALVANIZED STEEL
6	A33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL
7	HL33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL
8	M24	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL



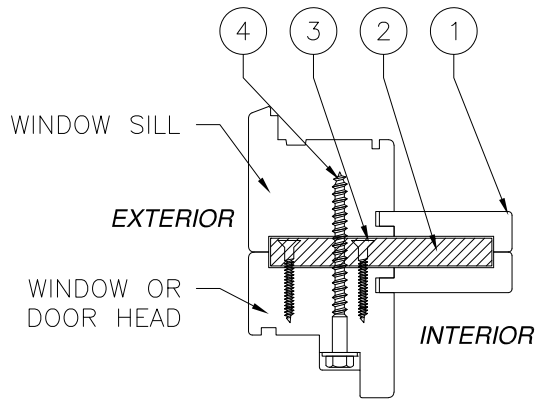
MULLION INSTALLATION
FRONT VIEW
REFER TO SHEETS 4 -5 FOR ADDITIONAL INSTALLATION DETAILS



MULLION CROSS SECTION



MULLION CROSS SECTION



MULLION CROSS SECTION

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- FRAME TO MULLION ANCHORING NOTES:
1. FOR ANCHORING MULLION TO FRAME USE #12X2" WOOD SCREWS, ITEM 3. LOCATE ANCHORS 7" FROM EACH CORNER AND 18" MAX. O.C. THEREAFTER.
 2. FOR ANCHORING FRAME TO FRAME USE 5/16"X4" LAG SCREW, ITEM 4. LOCATE ANCHORS 6" FROM EACH CORNER AND 18" MAX. O.C. THEREAFTER.

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BILDAU & BUSSMANN GMBH
GERICHTSTRASSE 23
DE 13347 BERLIN, GERMANY

DOUBLE TIMBER HORIZONTAL MULLION
IMPACT 120" SPAN
CROSS SECTIONS, B.O.M. AND INSTALLATION DETAILS

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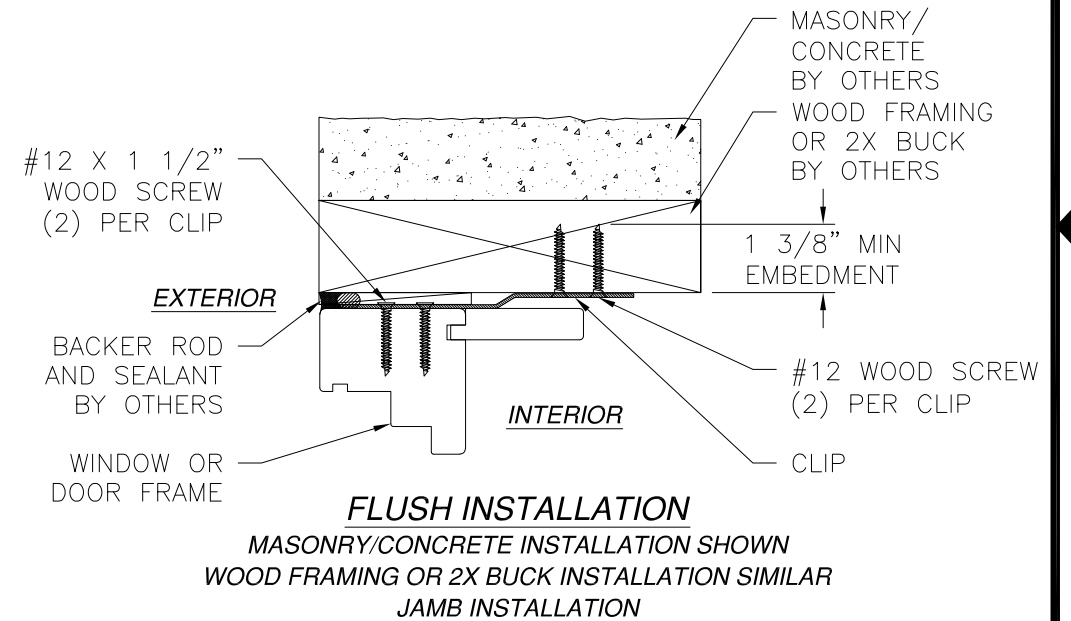
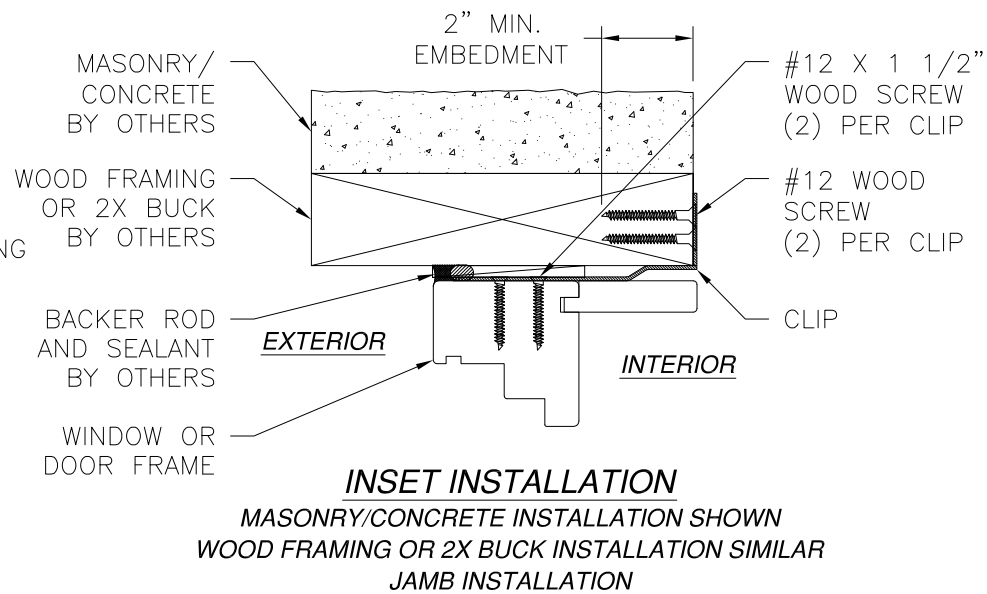
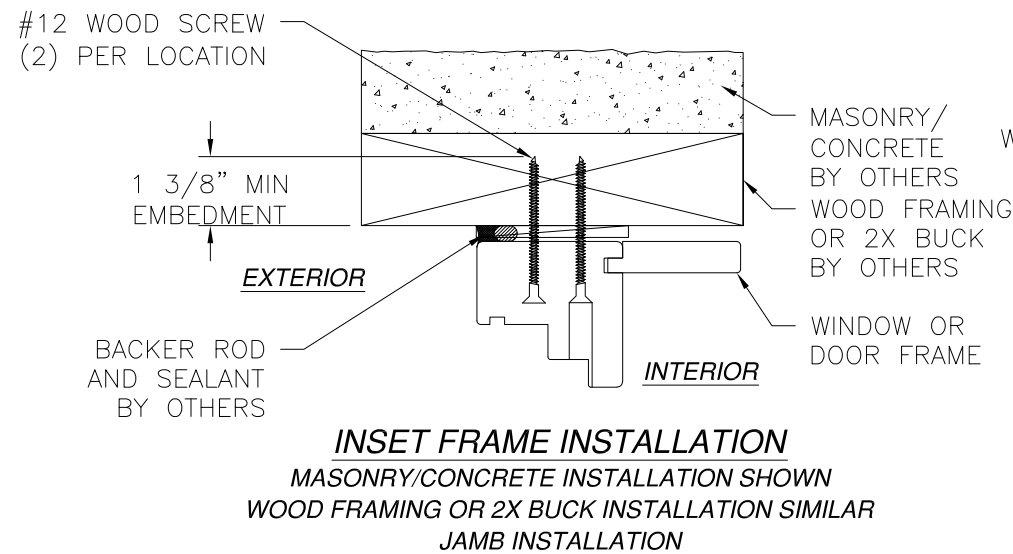
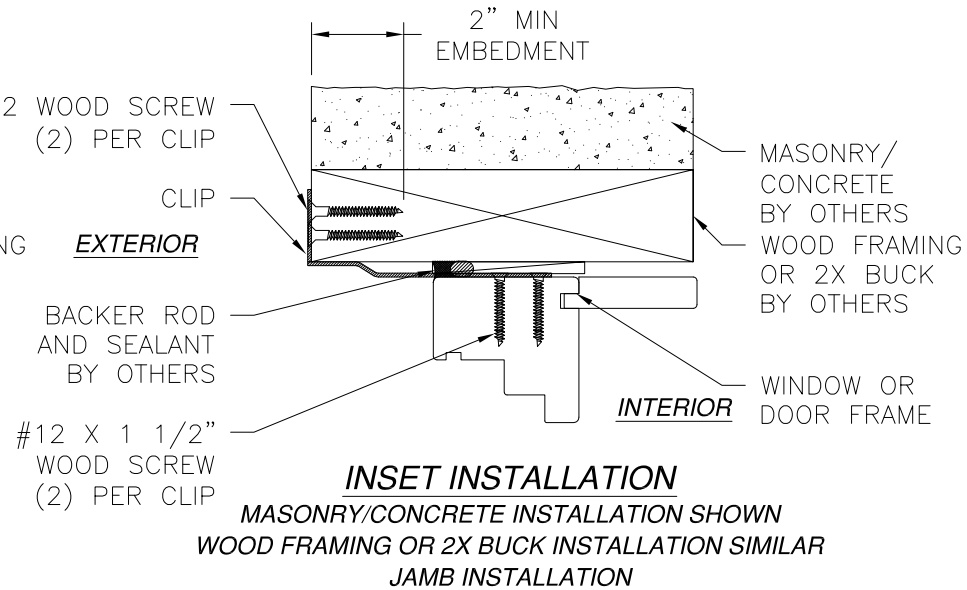
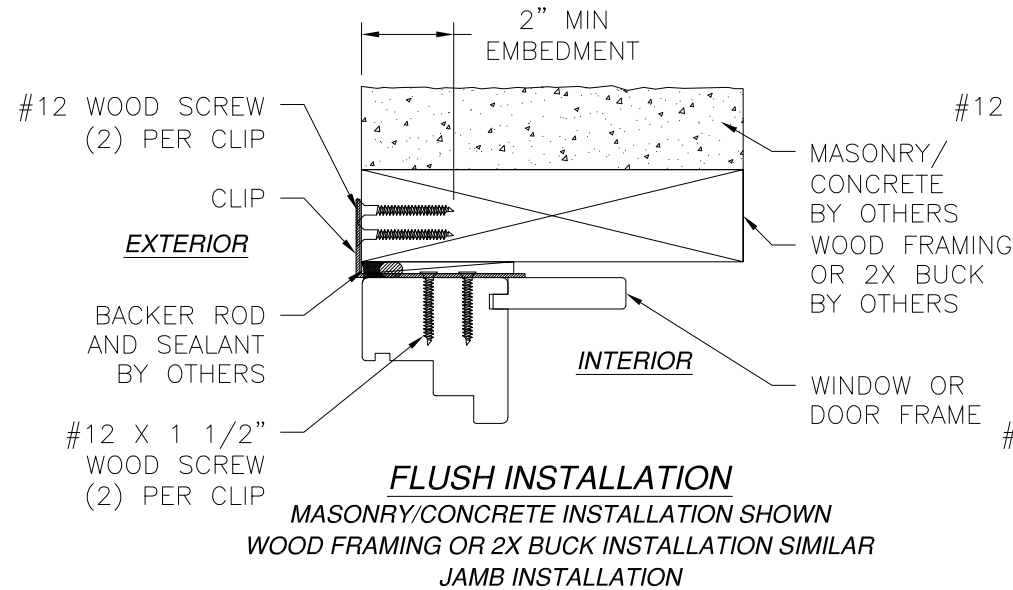
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SHEET
3 OF 6

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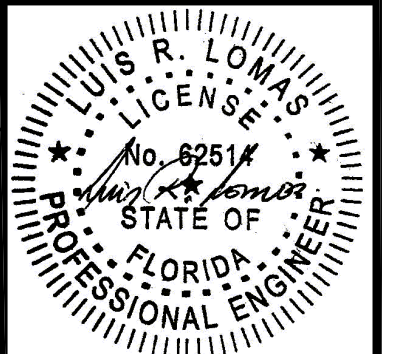


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NOTE:
INTERIOR AND EXTERIOR TRIM, BY OTHERS, NOT SHOWN FOR CLARITY.
WHEN INSTALLING INTO MASONRY OR CONCRETE 2X BUCK TO BE USED. 2X BUCK TO BE PROPERLY SECURED TO STRUCTURE

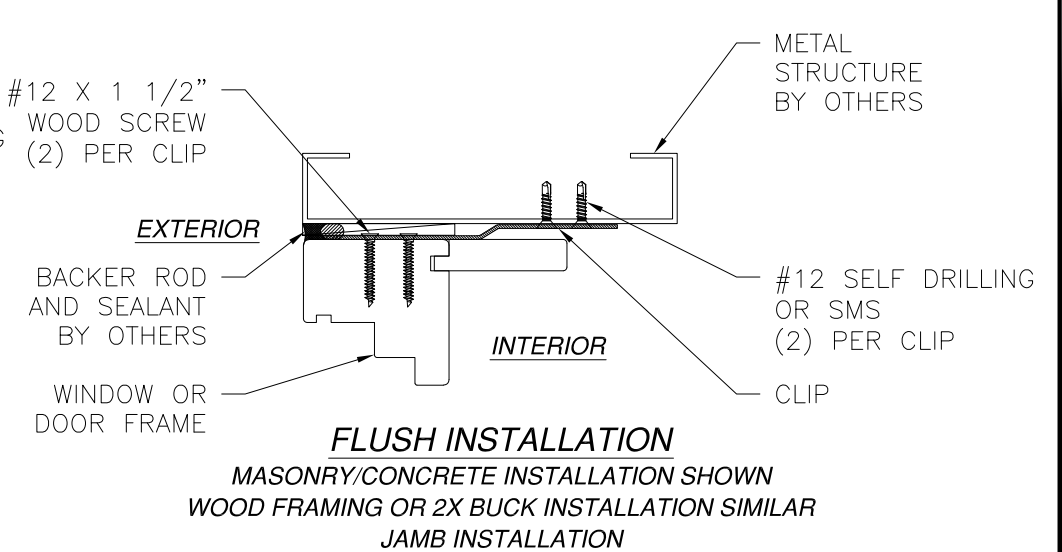
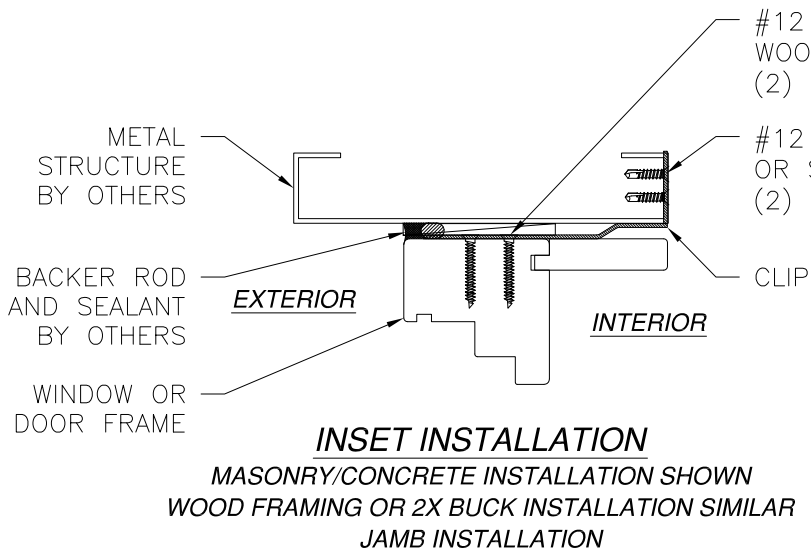
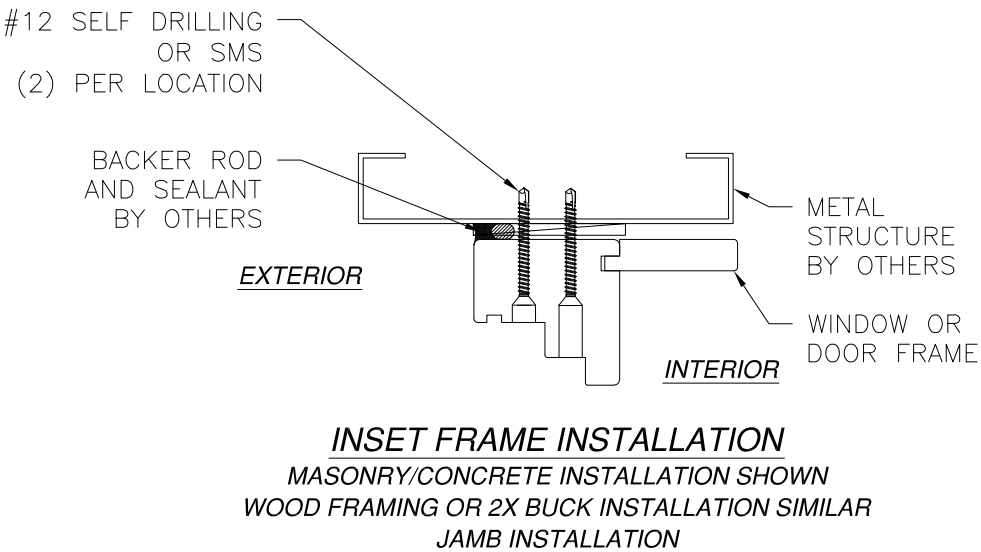
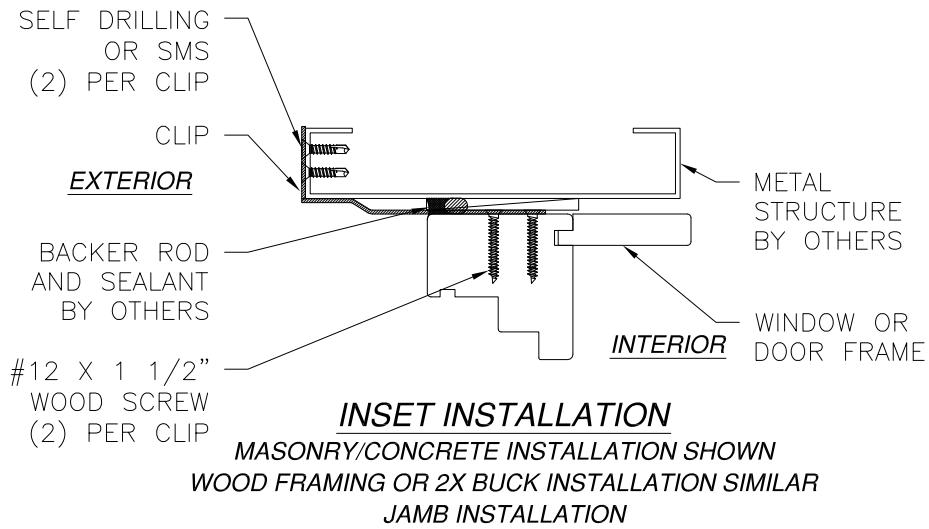
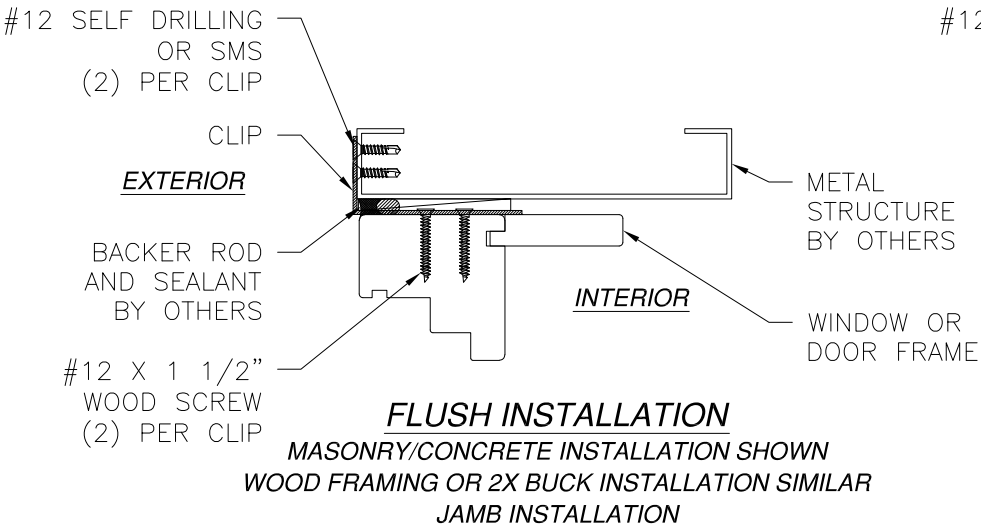
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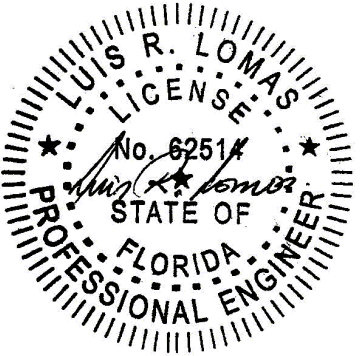
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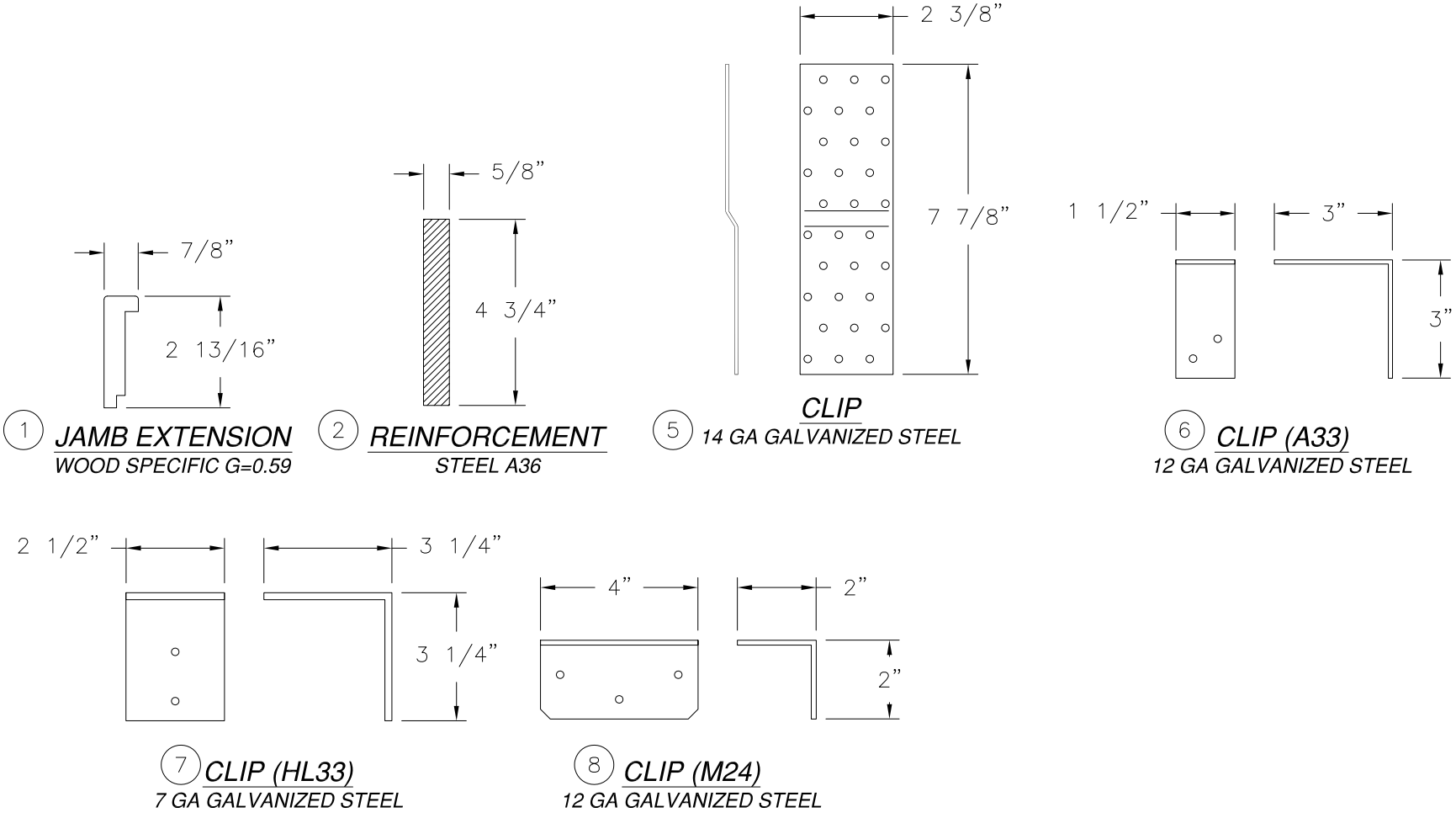
SHEET
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