

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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 NEEDED 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 ALUMINUM 6063–T5.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 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 #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:

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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GV FACADES, LLC.
2135 STATE HWY 6 SOUTH
HOUSTON, TX 77077

SERIES XT152 UNITIZED WINDOW WALL
IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–04081

REV
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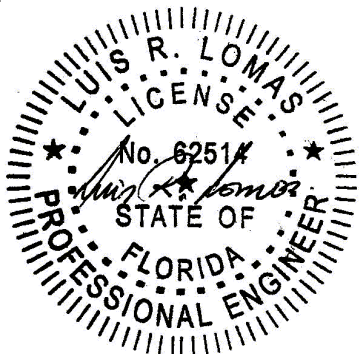
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DATE 01/07/2025

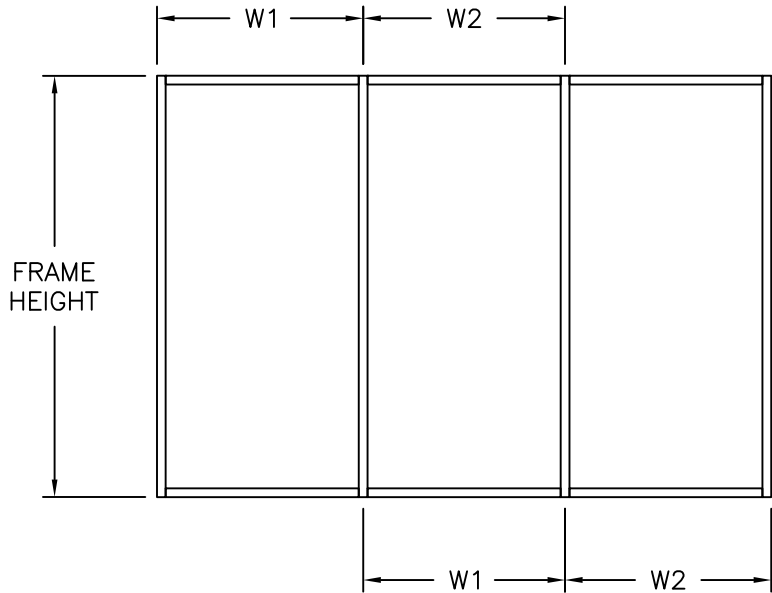
SHEET 1 OF 10

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

SIGNED: 01/23/2025



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



UNLIMITED NUMBER OF PANELS ARE APPROVED AS LONG AS IT USES
VERTICAL CONDITIONS AS SHOWN
REFER TO CHART #1 FOR SIZES AND RATINGS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
 3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

Chart #1
Design pressure rating (psf)

Frame Height (in)	Tributary Width (in)																	
	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00	56.00	58.00	60.00	62.00	63.00	64.00	65.00	66.00
54.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
56.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
58.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
60.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
62.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
64.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
66.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
68.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
70.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
72.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
74.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
76.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
78.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
80.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
82.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
83.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	-
86.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.6	-	-	-
90.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.3	57.7	56.2	54.8	53.6	52.4	-	-	-	-	-
96.00	60.0	60.0	57.7	55.4	53.3	51.4	49.7	48.1	46.7	45.4	44.2	-	-	-	-	-	-	-
102.00	52.4	49.9	47.7	45.8	44.0	42.4	40.9	39.6	38.4	-	-	-	-	-	-	-	-	-
106.00	46.5	44.3	42.3	40.6	39.0	37.5	36.2	35.0	-	-	-	-	-	-	-	-	-	-

DESIGN PRESSURES ARE POSITIVE AND NEGATIVE
MISSILE LEVEL D, WIND ZONE 3

GV FACADES, LLC.
2135 STATE HWY 6 SOUTH
HOUSTON, TX 77077

SERIES XT152 UNITIZED WINDOW WALL
IMPACT
VERTICAL MULLION CONFIGURATION

DRAWN:
A.R.

DWG NO.
08-04081

REV
-

SCALE
NTS

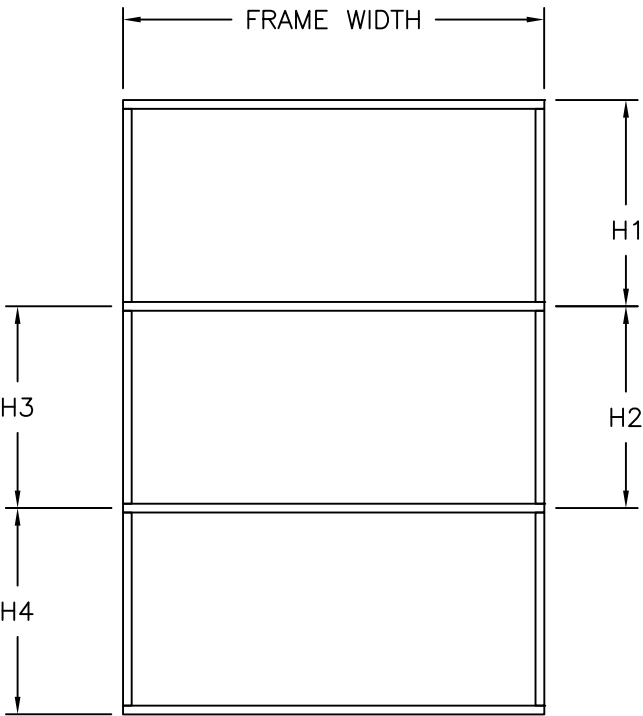
DATE
01/07/2025

SHEET
2 OF 10

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

SIGNED: 01/23/2025

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



UNLIMITED NUMBER OF PANELS ARE APPROVED AS LONG AS IT USES
HORIZONTAL CONDITIONS AS SHOWN
REFER TO CHART #2 FOR SIZES AND RATINGS

Chart #2
Design pressure rating (psf)

Height (in)		Frame width (in)							
Total	Tributary	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0
72.0	36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
78.0	39.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84.0	42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
90.0	45.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96.0	48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
102.0	51.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108.0	54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
114.0	57.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
120.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
126.0	63.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
132.0	66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

DESIGN PRESSURES ARE POSITIVE AND NEGATIVE
IMPACT RATED UP TO WIND ZONE 3

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE TRIBUTARY HEIGHT AND FRAME WIDTH BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY HEIGHT.
 3. LOCATE FRAME WIDTH AND TRIBUTARY HEIGHT. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

TRIBUTARY HEIGHT= $\frac{H1 + H2}{2}$

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REV	DESCRIPTION	DATE	APPROVED

GV FACADES, LLC.
2135 STATE HWY 6 SOUTH
HOUSTON, TX 77077

SERIES XT152 UNITIZED WINDOW WALL
IMPACT
HORIZONTAL MULLION CONFIGURATION

DRAWN:
A.R.

DWG NO.
08-04081

REV
-

SCALE
NTS

DATE
01/07/2025

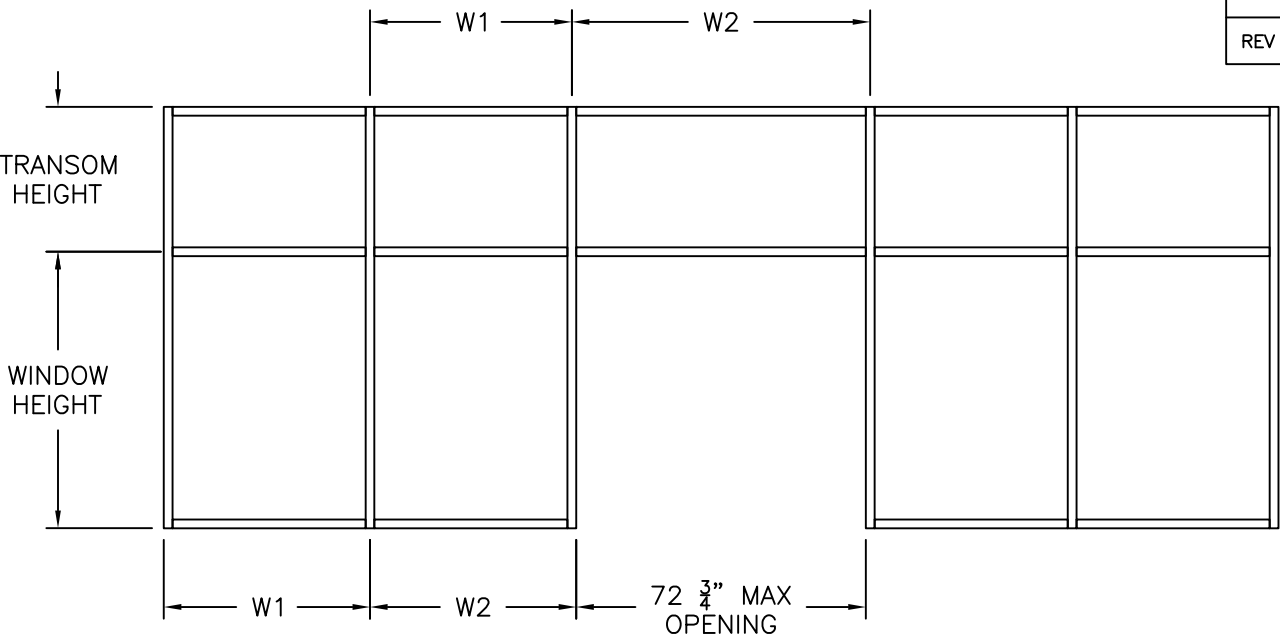
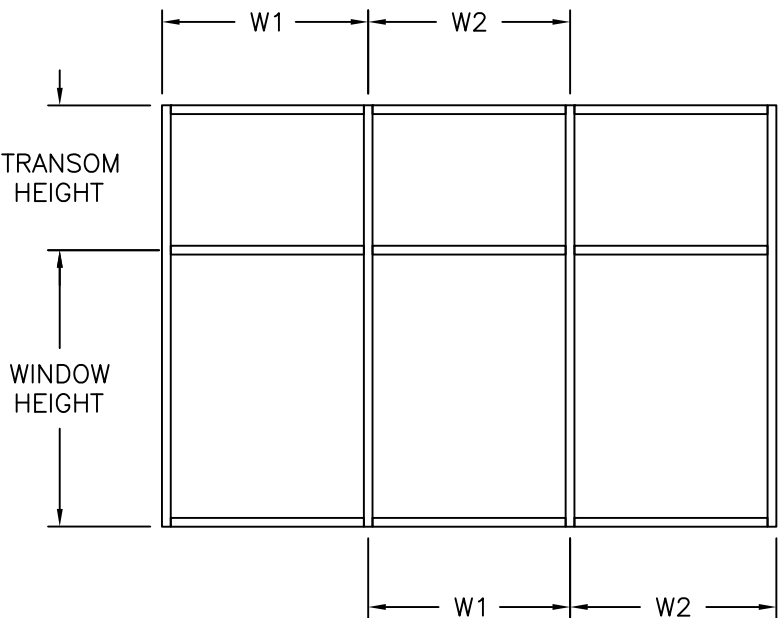
SHEET
3 OF 10

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

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

SIGNED: 01/23/2025

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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

UNLIMITED NUMBER OF PANELS ARE APPROVED AS LONG AS IT USES
VERTICAL AND HORIZONTAL CONDITIONS AS SHOWN
REFER TO CHART #3 FOR SIZES AND RATINGS

Chart #3
Design pressure rating (psf)
Units with transom up to 36"

Height (in)		Tributary width (in)						
Window	Transom	36.00	42.00	48.00	54.00	60.00	64.00	66.00
76.00	36.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0
80.00	36.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84.00	36.00	60.0	60.0	60.0	60.0	60.0	60.0	-
85.00	36.00	60.0	60.0	60.0	60.0	60.0	59.0	-
92.00	36.00	60.0	60.0	57.0	52.2	-	-	-
96.00	36.00	60.0	55.4	49.7	45.4	-	-	-
100.00	36.00	55.7	48.7	43.6	39.8	-	-	-
104.00	36.00	49.4	43.1	38.5	-	-	-	-
105.00	36.00	47.9	41.8	37.3	-	-	-	-

DESIGN PRESSURES ARE POSITIVE AND NEGATIVE
IMPACT RATED UP TO WIND ZONE 3

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

SIGNED: 01/23/2025

GV FACADES, LLC.
2135 STATE HWY 6 SOUTH
HOUSTON, TX 77077

SERIES XT152 UNITIZED WINDOW WALL
IMPACT
VERTICAL WITH TRANSOM CONFIGURATION

DRAWN:
A.R.

DWG NO.
08-04081

REV
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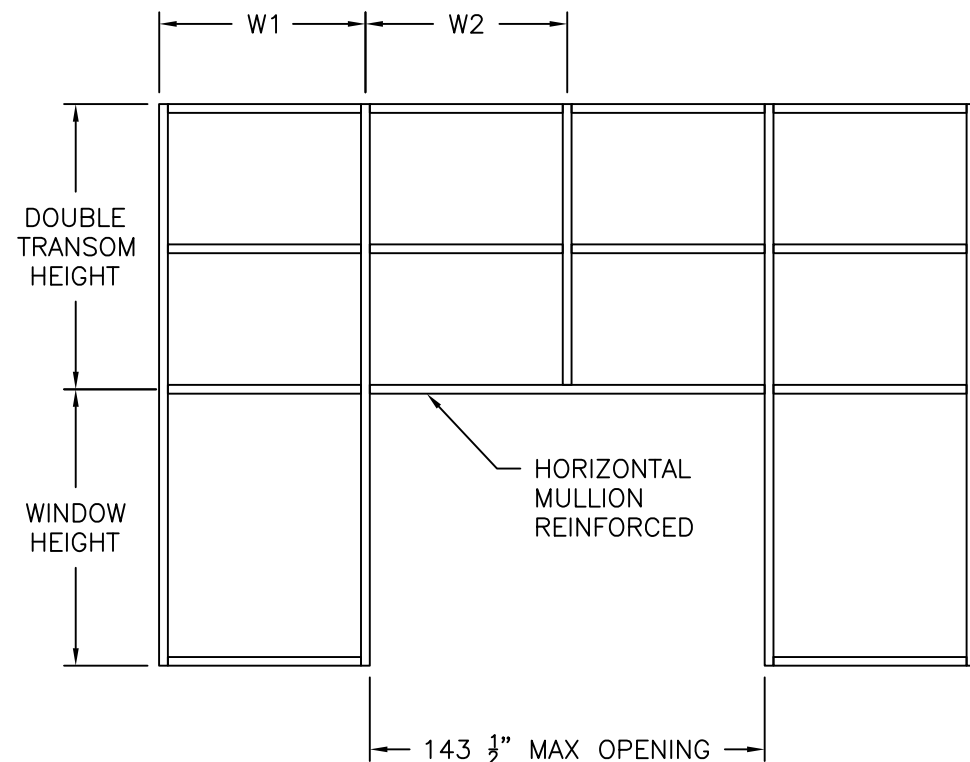
SCALE
NTS

DATE
01/07/2025

SHEET
4 OF 10

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



UNLIMITED NUMBER OF PANELS ARE APPROVED AS LONG AS IT USES VERTICAL AND HORIZONTAL CONDITIONS AS SHOWN REFER TO CHART #4 FOR SIZES AND RATINGS

Chart #4
Design pressure rating (psf)
Units with double transom up to 72"

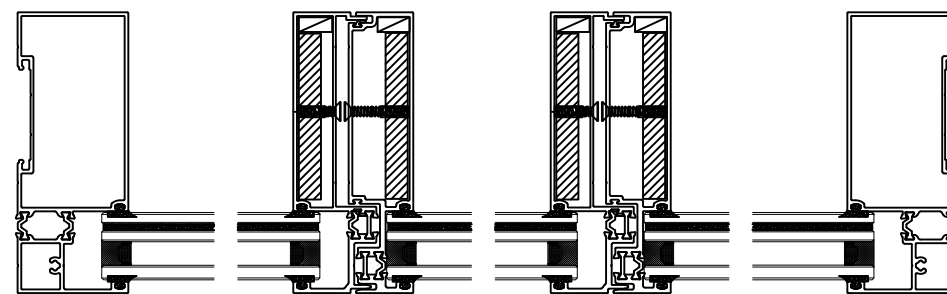
Height (in)		Tributary width (in)						
Window	Transom	36.00	42.00	48.00	54.00	60.00	64.00	66.00
76.00	72.00	60.0	56.8	50.4	45.5	41.6	39.4	38.4
80.00	72.00	60.0	53.6	47.6	43.0	39.3	37.2	36.2
84.00	72.00	58.4	50.8	45.0	40.6	37.1	35.1	34.2
85.00	72.00	57.6	50.1	44.4	40.1	36.6	34.6	33.8
92.00	72.00	52.5	45.6	40.4	36.4	33.3	31.5	30.7
96.00	72.00	49.8	43.3	38.4	34.6	31.5	29.8	29.1
100.00	72.00	47.4	41.1	36.5	32.8	30.0	28.3	27.6
104.00	72.00	45.1	39.1	34.7	31.2	28.5	26.9	26.2
105.00	72.00	44.5	38.7	34.3	30.8	28.1	26.6	25.9

DESIGN PRESSURES ARE POSITIVE AND NEGATIVE
IMPACT RATED UP TO WIND ZONE 3

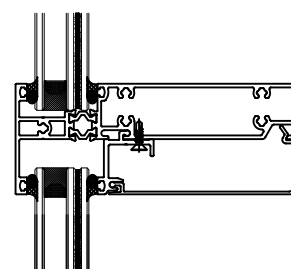
DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

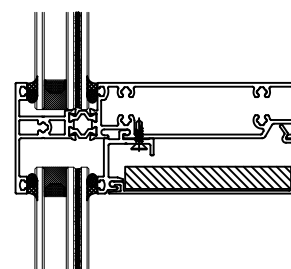
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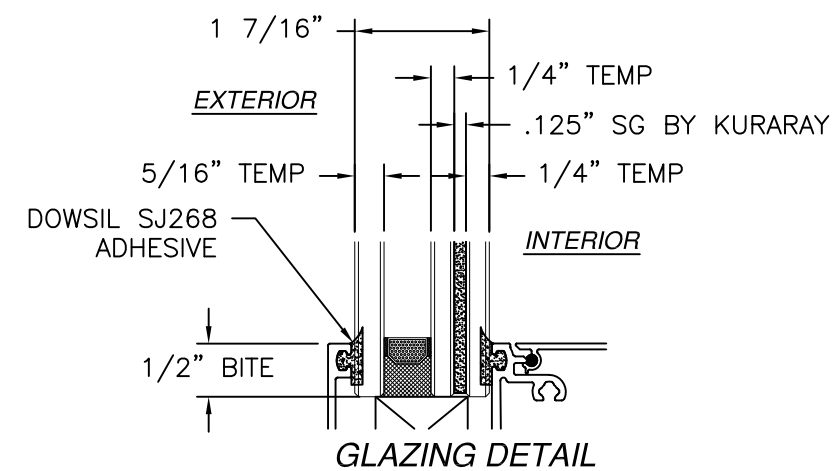
HORIZONTAL CROSS SECTION



NON-REINFORCED HORIZONTAL MULLION



REINFORCED HORIZONTAL MULLION



GLAZING DETAIL

GV FACADES, LLC.

2135 STATE HWY 6 SOUTH
HOUSTON, TX 77077

SERIES XT152 UNITIZED WINDOW WALL
IMPACT
VERTICAL W/DOUBLE TRANSOM CONFIGURATION

DRAWN:
A.R.

DWG NO.

08-04081

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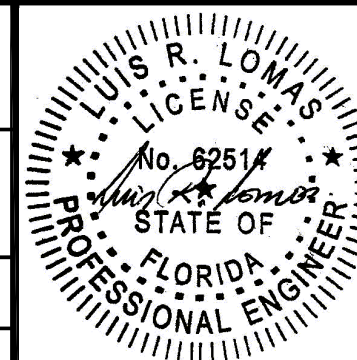
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01/07/2025

SHEET 5 OF 10

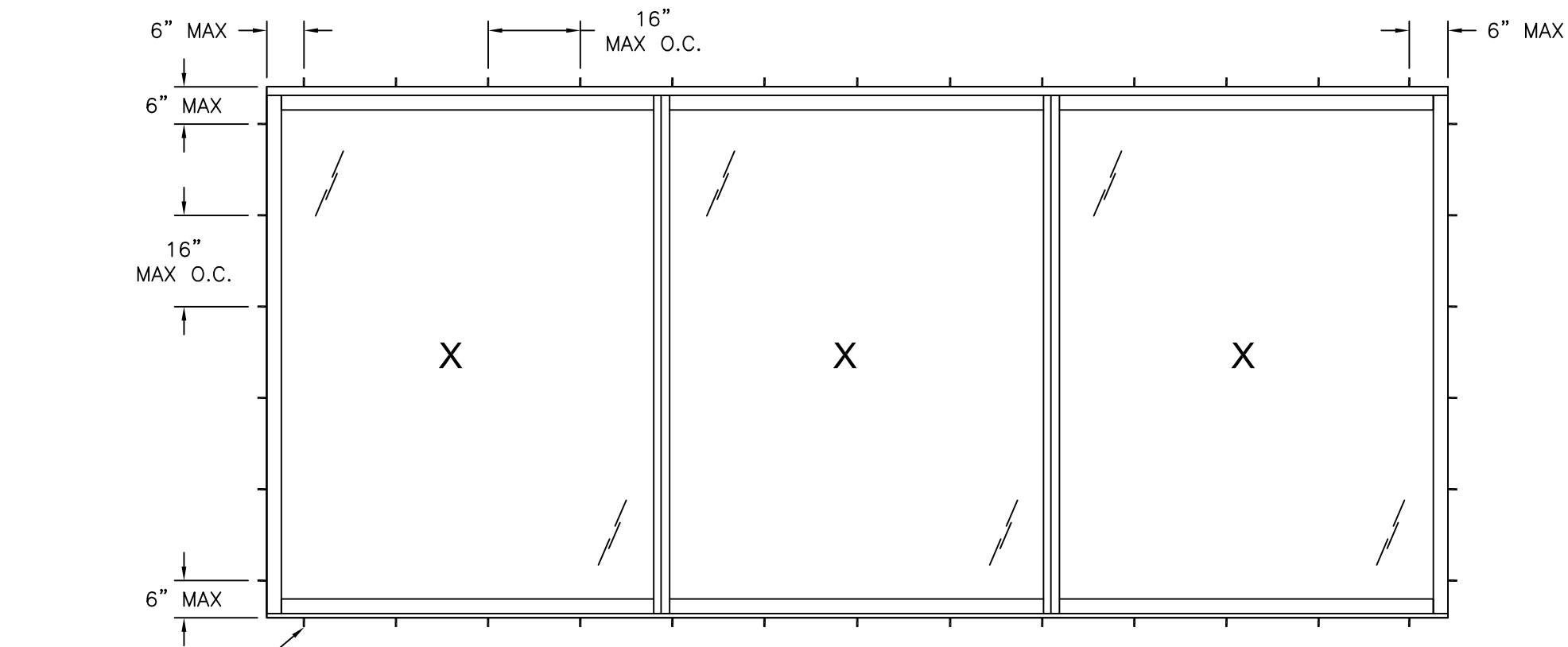
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 01/23/2025



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

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(2) ANCHORS PER
LOCATION AT HEAD
AND SILL

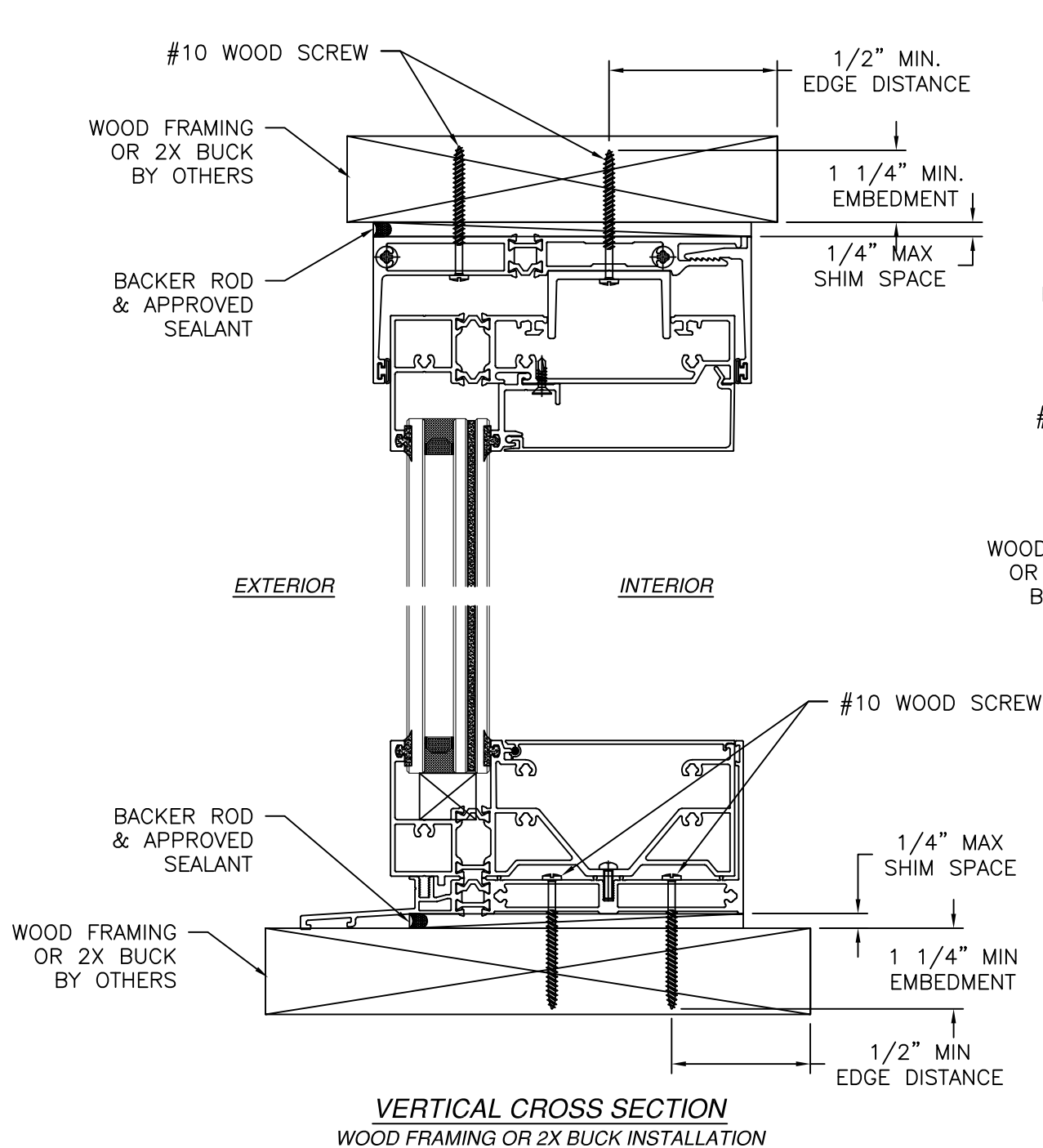
SERIES XT152 ANCHORING LAYOUT
3 PANEL UNIT SHOWN OTHER SIZES SIMILAR

SIGNED: 01/23/2025

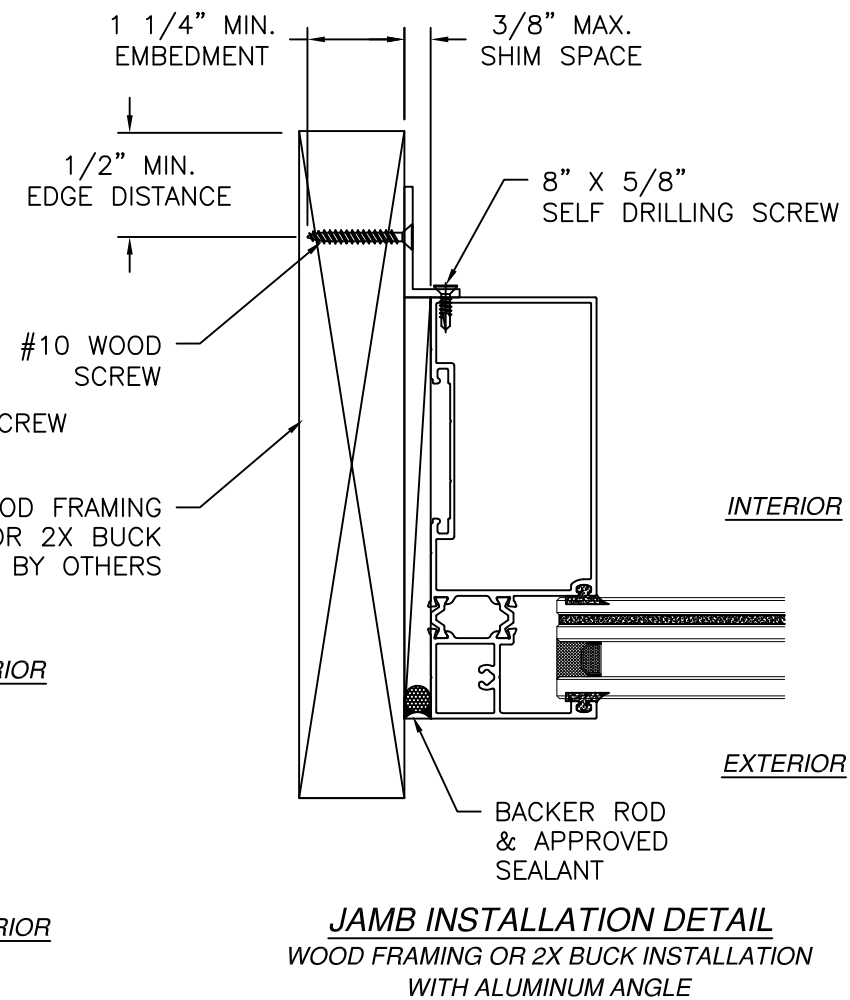
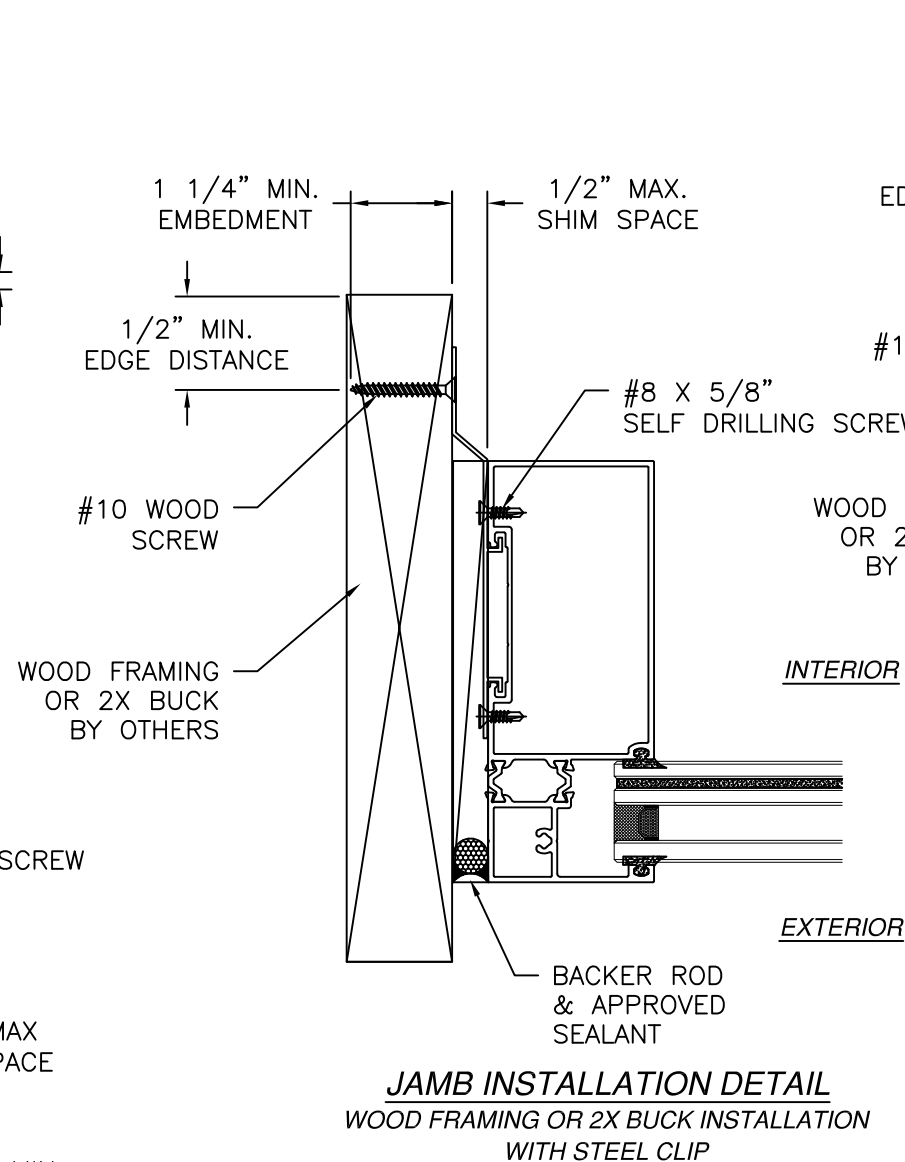
GV FACADES, LLC. 2135 STATE HWY 6 SOUTH HOUSTON, TX 77077		
SERIES XT152 UNITIZED WINDOW WALL IMPACT ANCHORING LAYOUT		
DRAWN: A.R.	DWG NO. 08-04081	REV -
SCALE NTS	DATE 01/07/2025	SHEET 6 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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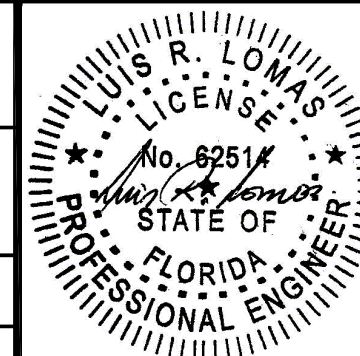


- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



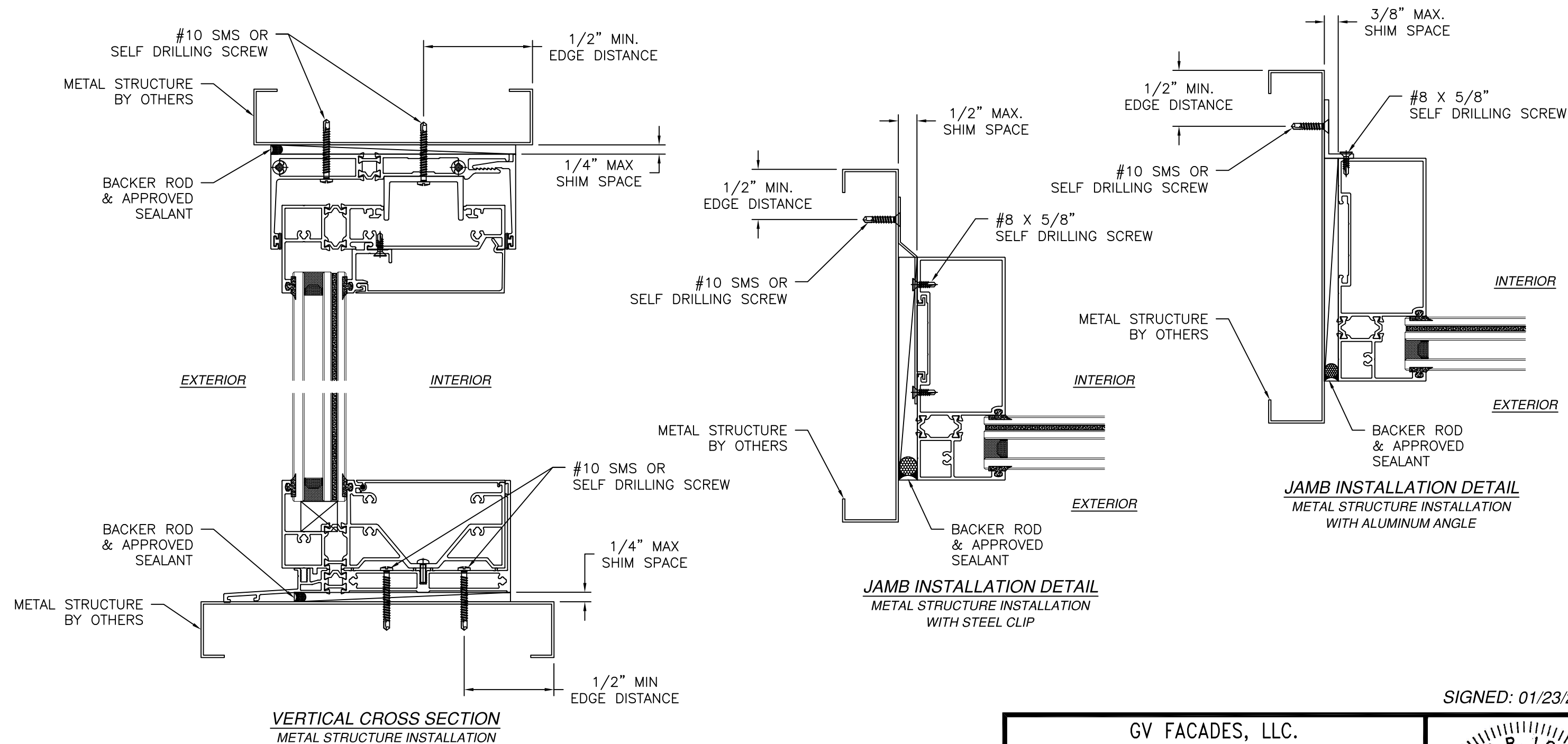
SIGNED: 01/23/2025

GV FACADES, LLC. 2135 STATE HWY 6 SOUTH HOUSTON, TX 77077		
SERIES XT152 UNITIZED WINDOW WALL IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04081	REV -
SCALE NTS	DATE 01/07/2025	SHEET 7 OF 10
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



- NOTES:
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HOUSTON, TX 77077

SERIES XT152 UNITIZED WINDOW WALL
IMPACT
INSTALLATION DETAILS

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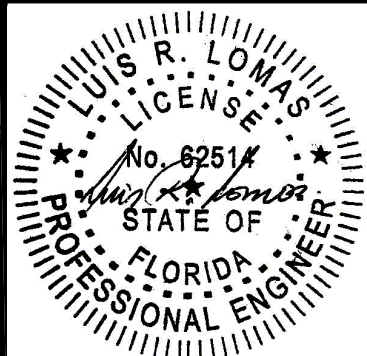
SCALE
NTS

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01/07/2025

SHEET
8 OF 10

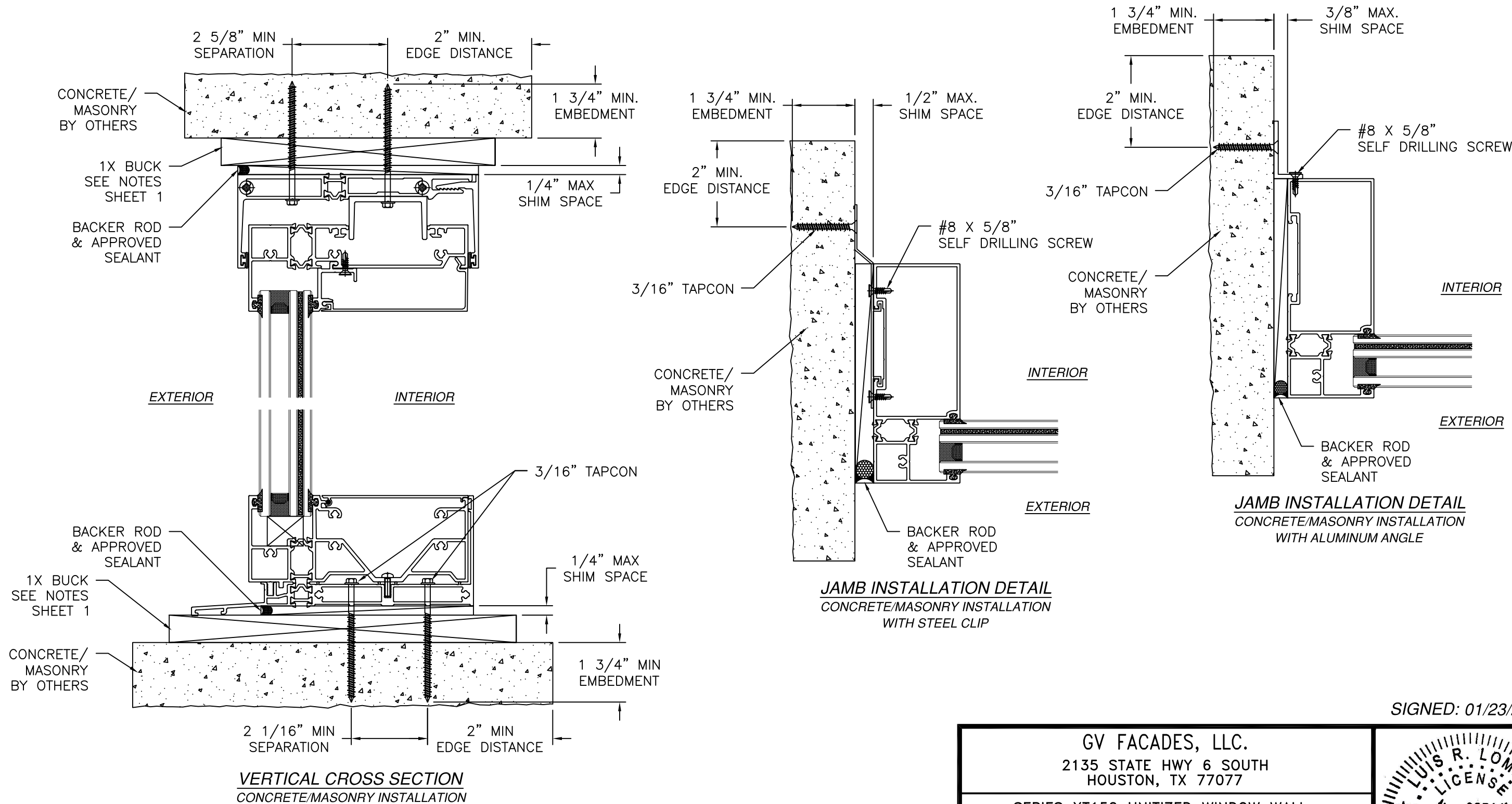
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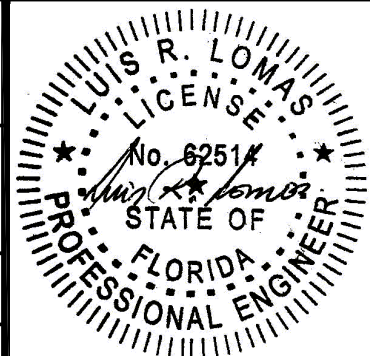
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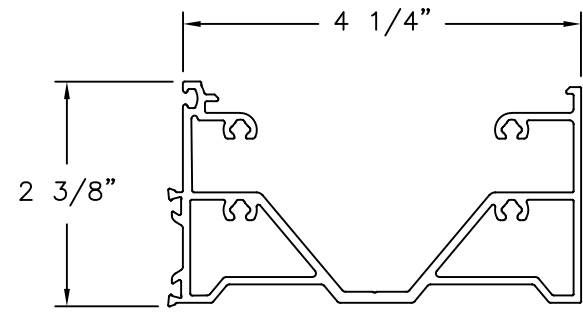
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9 OF 10

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208 7th Ave, INDIALANTIC, FL 32903
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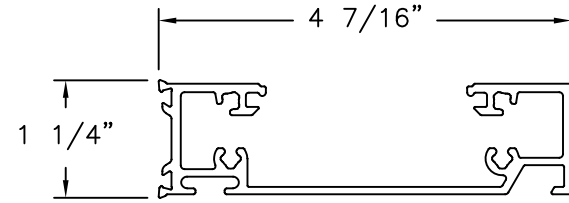
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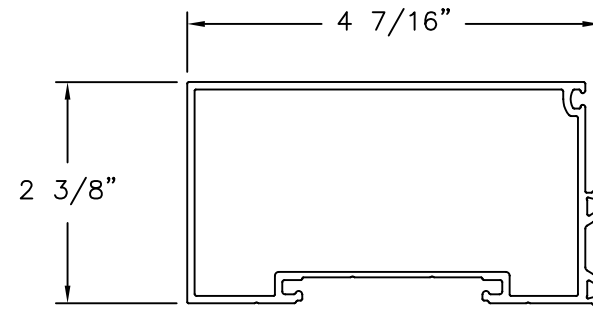
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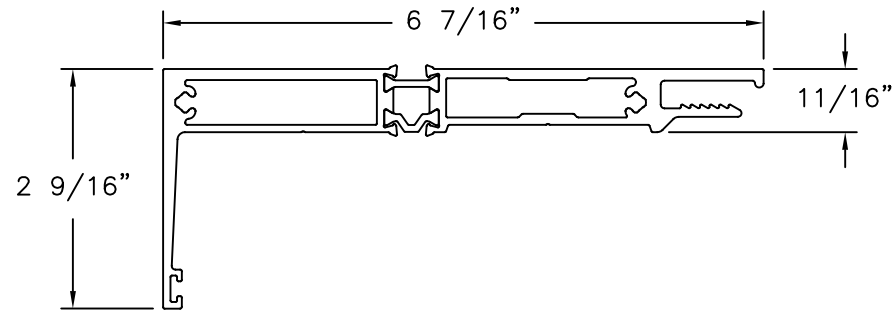
SILL (JDS15211-12)
ALUMINUM 6063-T5



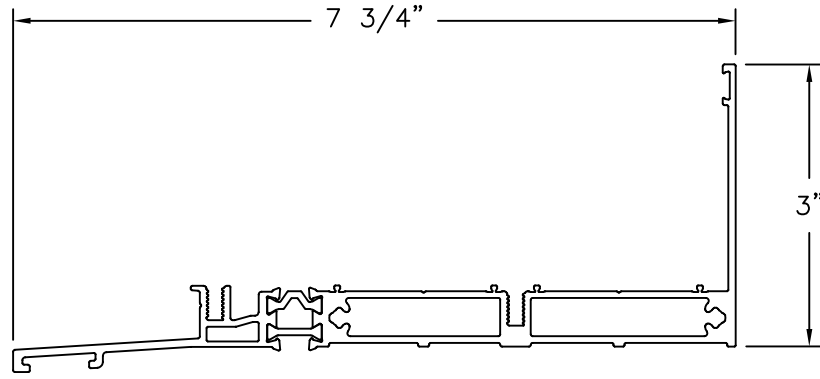
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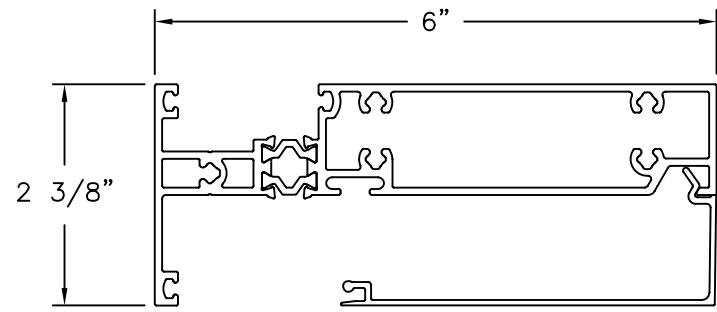
JAMB
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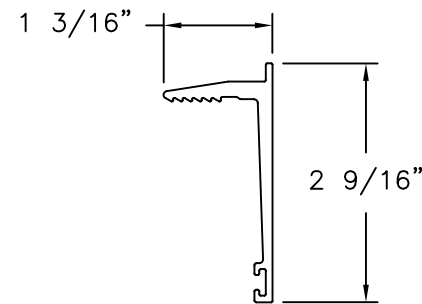
SUB HEAD (JDS15201-02)
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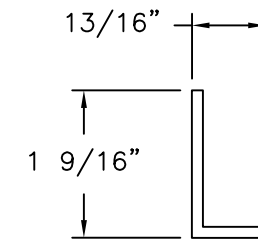
SUB SILL (JDS15214-15)
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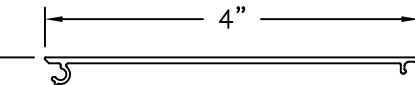
HORIZONTAL MULLION ASSEMBLY
ALUMINUM 6063-T5



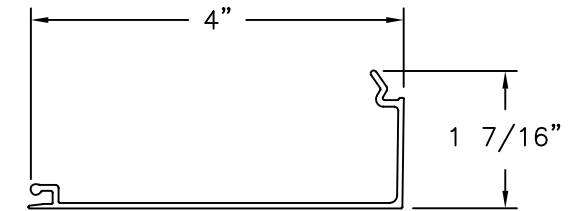
SUB HEAD COVER (JDS15208)
ALUMINUM 6063-T5



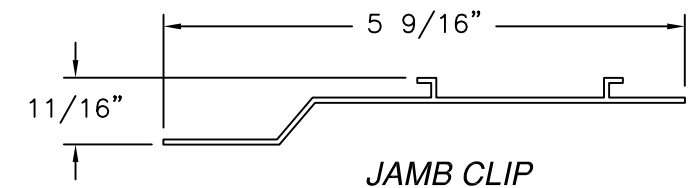
JAMB ANGLE
ALUMINUM



SILL COVER (JDS15213)
ALUMINUM 6063-T5

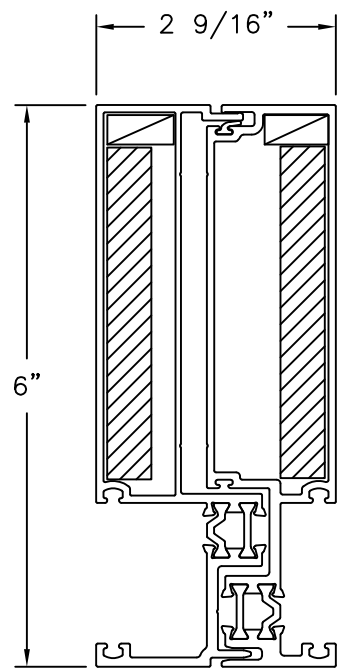


HEAD COVER (JDS15206)
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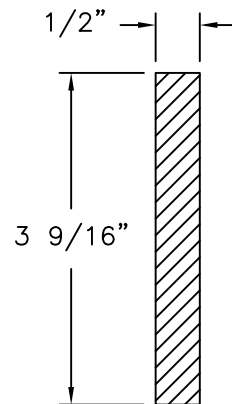


JAMB CLIP
STEEL

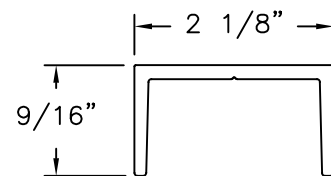
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VERTICAL MULLION ASSEMBLY
ALUMINUM 6063-T5

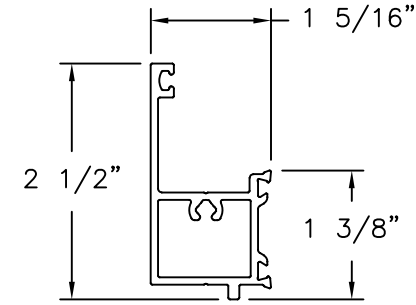


MULLION REINFORCEMENT
STEEL

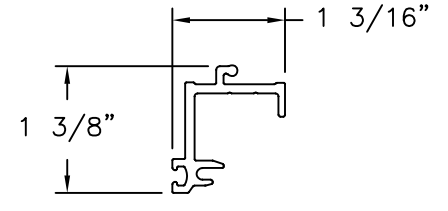


ANCHOR HEAD COVER (JDS15205)
ALUMINUM 6063-T5

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



GLAZING BEAD (JDS15204-18)
ALUMINUM 6063-T5



HEAD CONNECTOR (JDS15207)
ALUMINUM 6063-T5

GV FACADES, LLC.
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HOUSTON, TX 77077

SERIES XT152 UNITIZED WINDOW WALL
IMPACT
COMPONENTS

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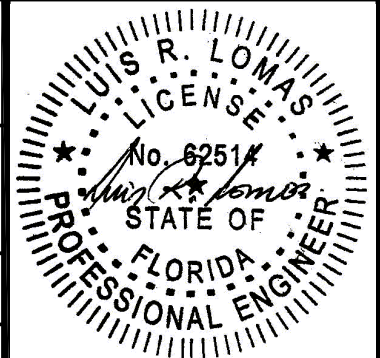
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10 OF 10

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