

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 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. THESE INSTALLATION INSTRUCTIONS ARE FOR THE MUHLER RECESSED TRIM SYSTEM ONLY. FENESTRATION OR OTHER PROTECTIVE SYSTEMS MUST HAVE THEIR OWN SEPARATE APPROVAL.
4. RECESSED TRIM SYSTEM MUST BE INSTALLED AS SHOWN HEREIN AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. SELECTION OF FENESTRATION AND PROTECTIVE SYSTEMS IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. RECESSED TRIM SYSTEM IS IMPACT RATED AND DOES NOT REQUIRE IMPACT PROTECTION IN WIND BORNE DEBRIS REGIONS.
7. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
8. RECESSED TRIM MATERIAL: EXTRUDED RIGID PVC.
9. FOR ANCHORING 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.
10. FOR ANCHORING 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.
11. FOR ANCHORING INTO CONCRETE OR GROUT FILLED BLOCK USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. FOR ANCHORING INTO HOLLOW BLOCK MASONRY USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

13. ALL FASTENERS TO BE CORROSION RESISTANT.
14. 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=2,000 PSI MINIMUM.
 - B. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR
15. WOOD STRUCTURAL PANELS WITH A MINIMUM THICKNESS OF 7/16" AND A SPAN OF NO MORE THAN 8' MAY BE USED WITH THIS SYSTEM FOR BUILDINGS WITH A MEAN ROOF HEIGHT OF 45' OR LESS WHERE THE ULTIMATE WIND SPEED IS 180MPH OR LESS.
16. SELECTION OF IMPACT PROTECTION COVERINGS IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD. IMPACT PROTECTION COVERINGS MUST HAVE THEIR OWN PRODUCT APPROVAL.
17. IMPACT PROTECTION COVERINGS MUST BE ANCHORED TO RECESSED TRIM USING REMFORM SCREW OR 1/4" X 1-1/4" HH SCREW OR #12 X 1-1/2" HH ROOF SCREW OR #10 X 1-1/2" TRUSS HD SCREW AS SHOWN IN INSTALLATION DETAILS. SPACING OF INSTALLATION SCREWS MUST BE IN ACCORDANCE WITH THIS DOCUMENT OR IMPACT PROTECTION SYSTEM PRODUCT APPROVAL.

SIGNED: 09/02/2026

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	ELEVATIONS AND CHARTS
4 – 8	INSTALLATION DETAILS
9	COMPONENTS

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

RECESSED TRIM
LARGE AND SMALL MISSILE IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08-03618

REV
-

SCALE NTS

DATE 09/22/2020

SHEET 1 OF 9

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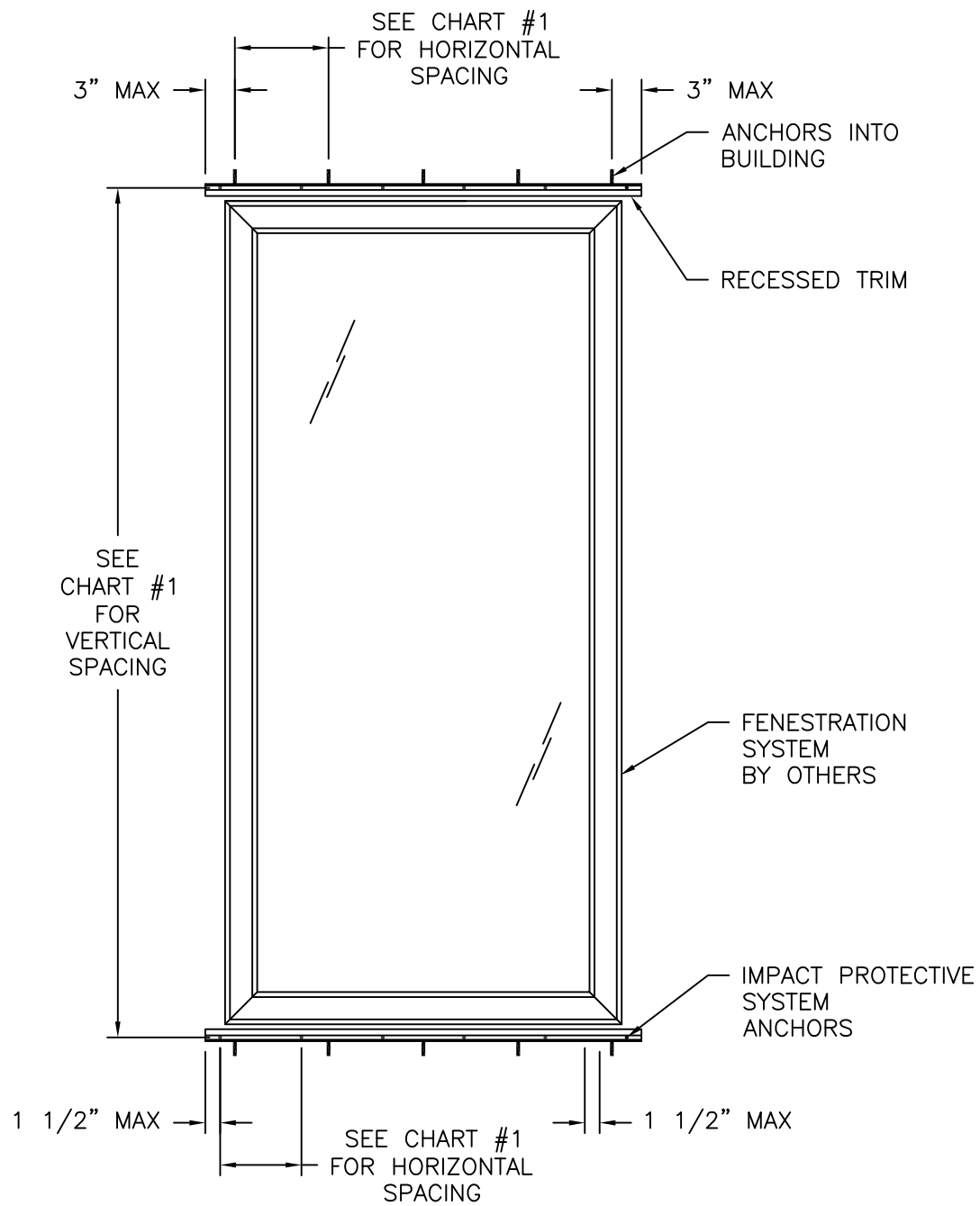
No. 62514

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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

REVISIONS			
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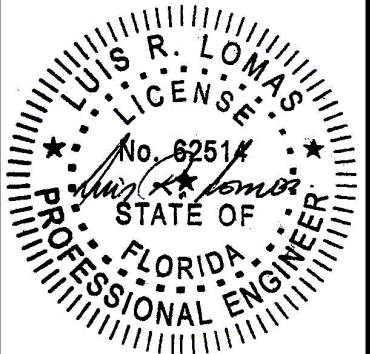


RECESSED TRIM INSTALLATION
EXTERIOR VIEW
PROTECTIVE SYSTEM NOT SHOWN FOR CLARITY
SEE CHART #1 FOR RATINGS AND SPACINGS

Chart #1 Maximum design pressure (psf)									
Vertical spacing (in)	Horizontal spacing (in)								
	4.0	6.0	9.0	9.5	12.0	15.0	18.0	21.0	24.0
21.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
24.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	68.9
30.0	75.0	75.0	75.0	75.0	75.0	75.0	73.4	63.0	55.1
36.0	75.0	75.0	75.0	75.0	75.0	73.4	61.2	52.5	45.9
42.0	75.0	75.0	75.0	75.0	75.0	63.0	52.5	45.0	39.3
48.0	75.0	75.0	75.0	75.0	68.9	55.1	45.9	39.3	34.4
54.0	75.0	75.0	75.0	75.0	61.2	49.0	40.8	35.0	30.6
60.0	75.0	75.0	73.4	69.6	55.1	44.1	36.7	31.5	27.5
66.0	75.0	75.0	66.8	63.3	50.1	40.1	33.4	28.6	25.0
72.0	75.0	75.0	61.2	58.0	45.9	36.7	30.6	26.2	23.0
78.0	75.0	75.0	56.5	53.5	42.4	33.9	28.2	24.2	21.2
84.0	75.0	75.0	52.5	49.7	39.3	31.5	26.2	22.5	19.7
90.0	75.0	73.4	49.0	46.4	36.7	29.4	24.5	21.0	18.4
96.0	75.0	68.9	45.9	43.5	34.4	27.5	23.0	19.7	17.2
102.0	75.0	64.8	43.2	40.9	32.4	25.9	21.6	18.5	16.2
108.0	75.0	61.2	40.8	38.7	30.6	24.5	20.4	17.5	15.3
114.0	75.0	58.0	38.7	36.6	29.0	23.2	19.3	16.6	-
120.0	75.0	55.1	36.7	34.8	27.5	22.0	18.4	15.7	-
126.0	75.0	52.5	35.0	33.1	26.2	21.0	17.5	-	-
132.0	75.0	50.1	33.4	31.6	25.0	20.0	16.7	-	-
138.0	71.9	47.9	31.9	30.3	24.0	19.2	16.0	-	-
144.0	68.9	45.9	30.6	29.0	23.0	18.4	15.3	-	-
150.0	66.1	44.1	29.4	27.8	22.0	17.6	-	-	-

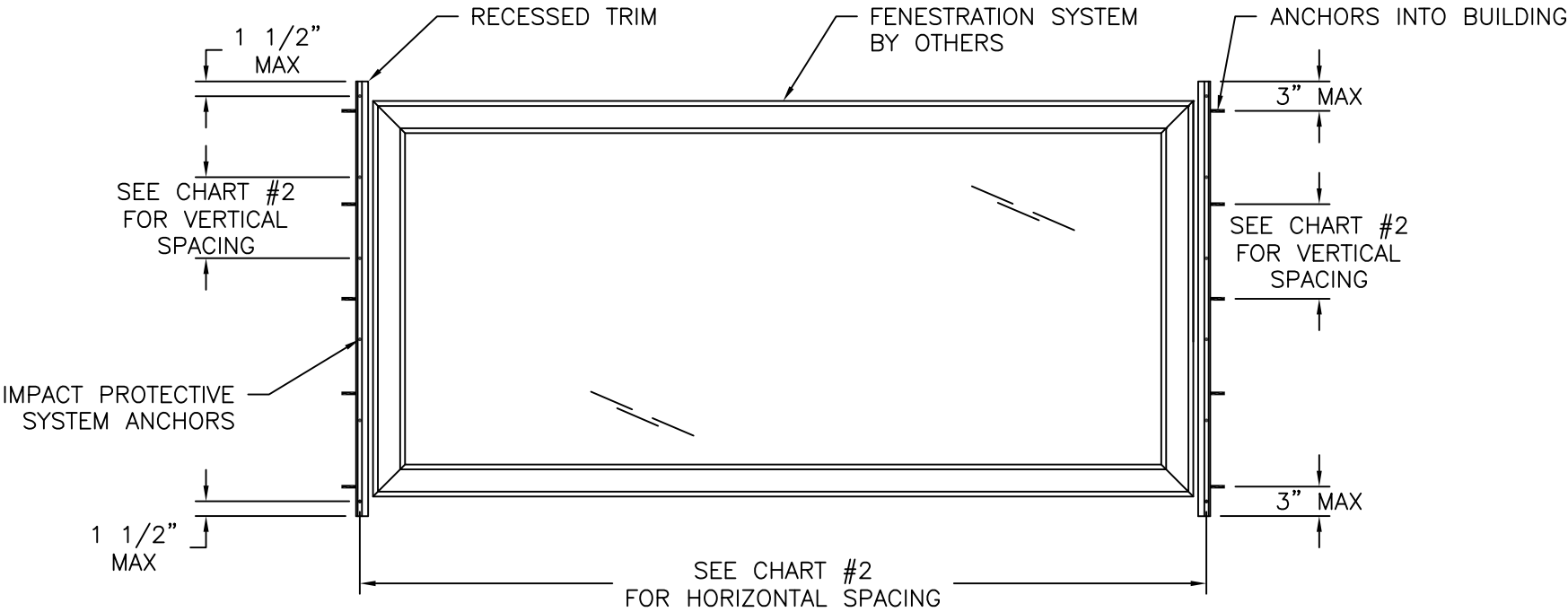
THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
RECESSED TRIM LARGE AND SMALL MISSILE IMPACT VERTICAL ELEVATION		
DRAWN: R.L.	DWG NO. 08-03618	REV -
SCALE NTS	DATE 09/22/2020	SHEET 2 OF 9
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Luis R. Lomas P.E.
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RECESSED TRIM INSTALLATION
 EXTERIOR VIEW
 PROTECTIVE SYSTEM NOT SHOWN FOR CLARITY
 SEE CHART #2 FOR RATINGS AND SPACINGS.

Chart #2

Maximum design pressure (psf)																							
Vertical spacing (in)	Horizontal spacing (in)																						
	21.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0	150.0
4.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	71.9	68.9	66.1
6.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.4	68.9	64.8	61.2	58.0	55.1	52.5	50.1	47.9	45.9	44.1
9.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.4	66.8	61.2	56.5	52.5	49.0	45.9	43.2	40.8	38.7	36.7	35.0	33.4	31.9	30.6	29.4
9.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	69.6	63.3	58.0	53.5	49.7	46.4	43.5	40.9	38.7	36.6	34.8	33.1	31.6	30.3	29.0	27.8
12.0	75.0	75.0	75.0	75.0	75.0	68.9	61.2	55.1	50.1	45.9	42.4	39.3	36.7	34.4	32.4	30.6	29.0	27.5	26.2	25.0	24.0	23.0	22.0
15.0	75.0	75.0	75.0	73.4	63.0	55.1	49.0	44.1	40.1	36.7	33.9	31.5	29.4	27.5	25.9	24.5	23.2	22.0	21.0	20.0	19.2	18.4	17.6
18.0	75.0	75.0	73.4	61.2	52.5	45.9	40.8	36.7	33.4	30.6	28.2	26.2	24.5	23.0	21.6	20.4	19.3	18.4	17.5	16.7	16.0	15.3	-
21.0	75.0	75.0	63.0	52.5	45.0	39.3	35.0	31.5	28.6	26.2	24.2	22.5	21.0	19.7	18.5	17.5	16.6	15.7	-	-	-	-	-
24.0	75.0	68.9	55.1	45.9	39.3	34.4	30.6	27.5	25.0	23.0	21.2	19.7	18.4	17.2	16.2	15.3	-	-	-	-	-	-	-

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THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

RECESSED TRIM
LARGE AND SMALL MISSILE IMPACT
HORIZONTAL ELEVATION

DRAWN: R.L.

DWG NO. 08-03618

REV -

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DATE 09/22/2020

SHEET 3 OF 9

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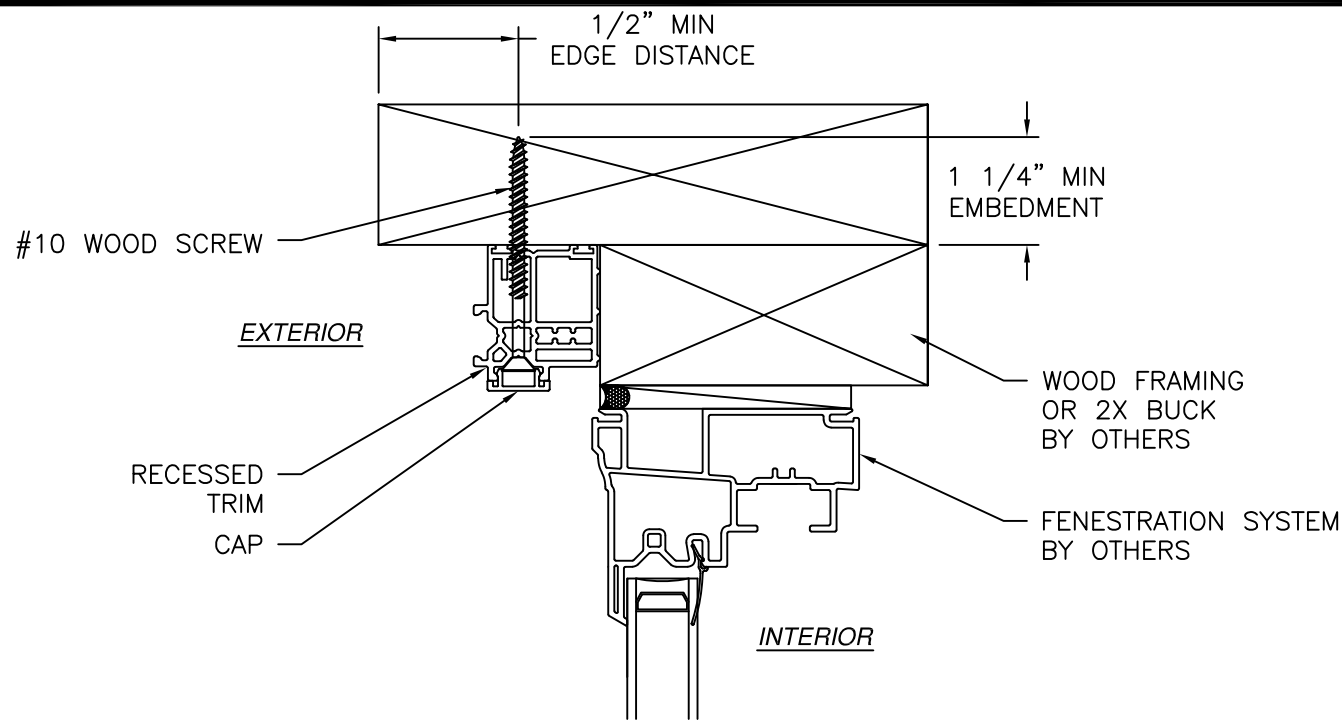
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STATE OF FLORIDA

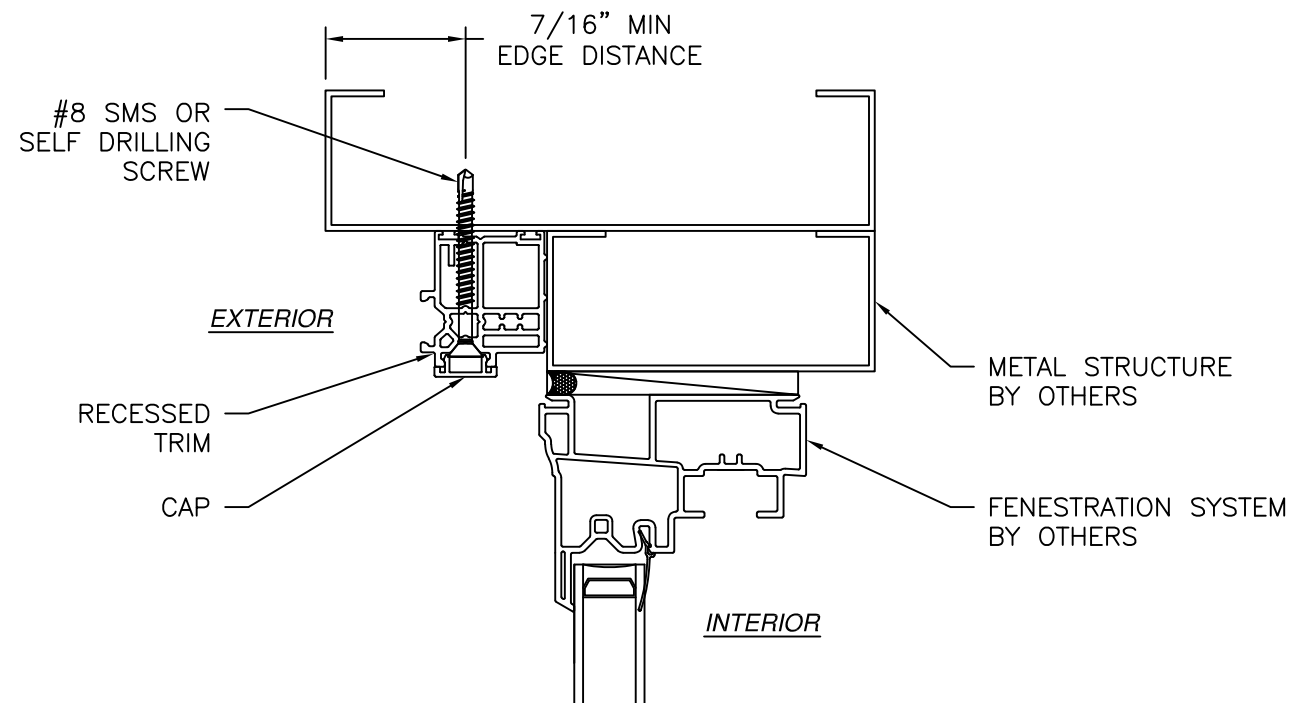
PROFESSIONAL ENGINEER

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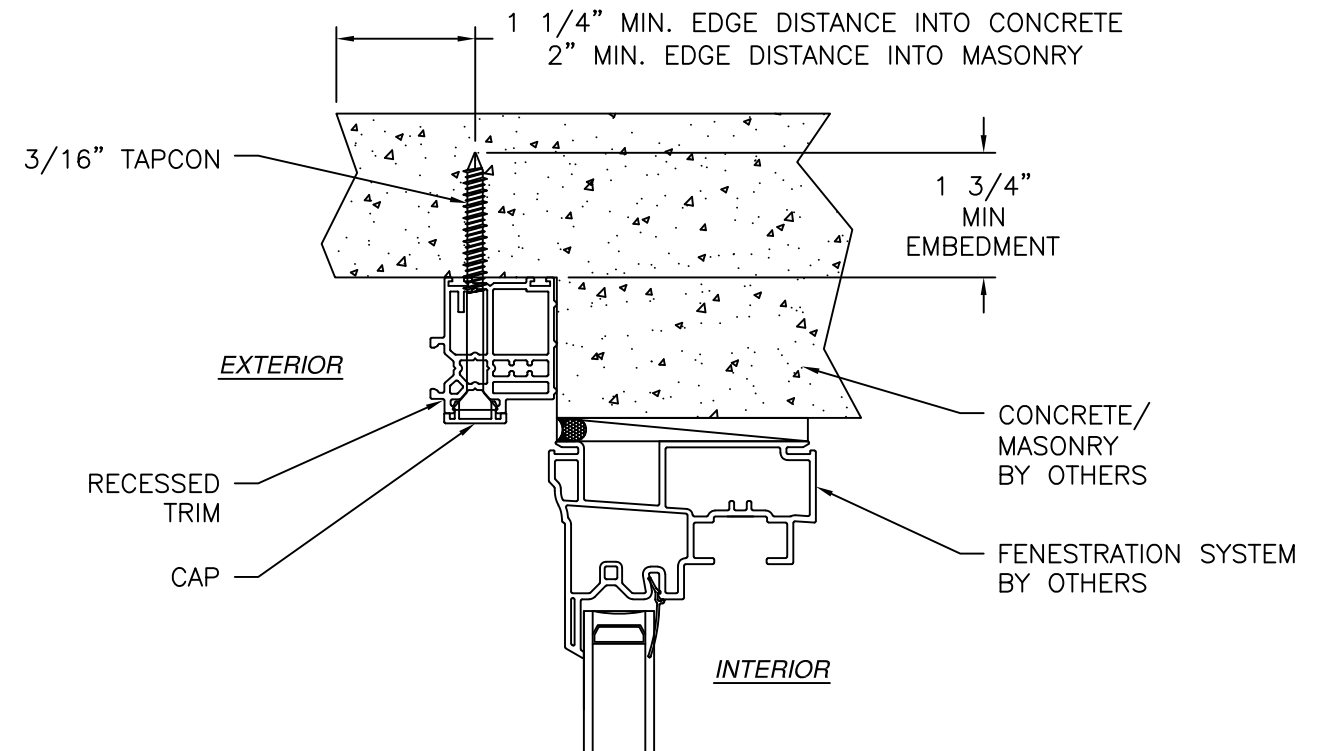
FL No.: 62514



RECESSED TRIM INSTALLATION
WOOD FRAMING OR 2X BUCK
IMPACT PROTECTION NOT SHOWN FOR CLARITY



RECESSED TRIM INSTALLATION
METAL STRUCTURE
IMPACT PROTECTION NOT SHOWN FOR CLARITY

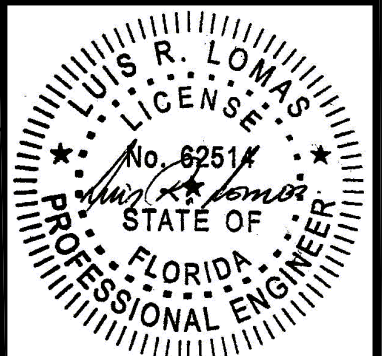


RECESSED TRIM INSTALLATION
MASONRY/CONCRETE

- NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

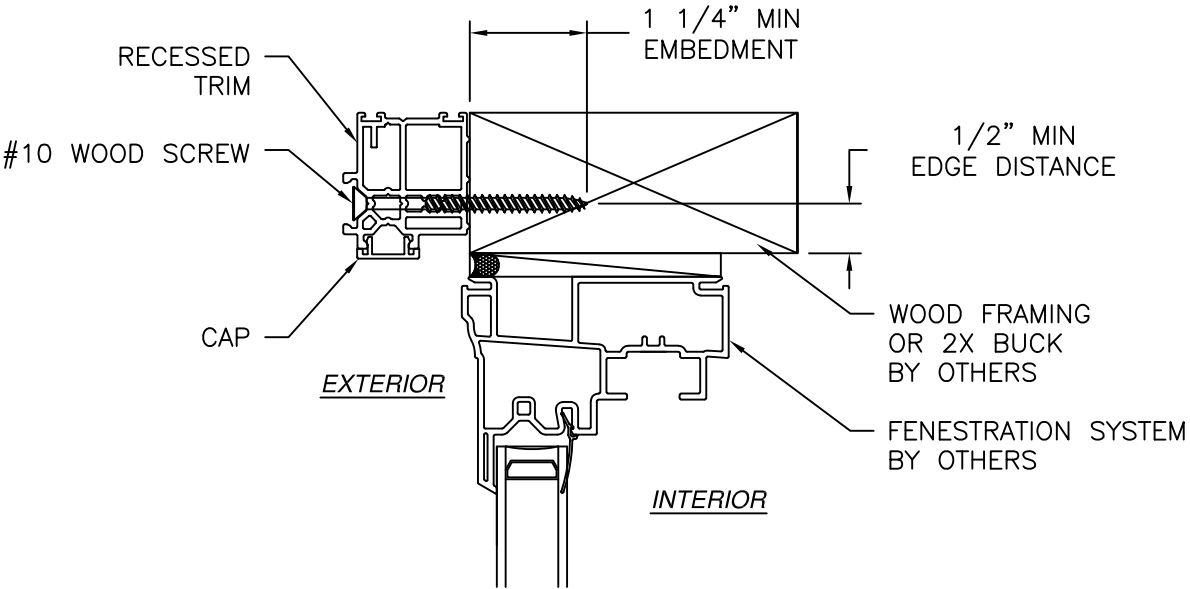
THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
RECESSED TRIM LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-03618	REV -
SCALE NTS	DATE 09/22/2020	SHEET 4 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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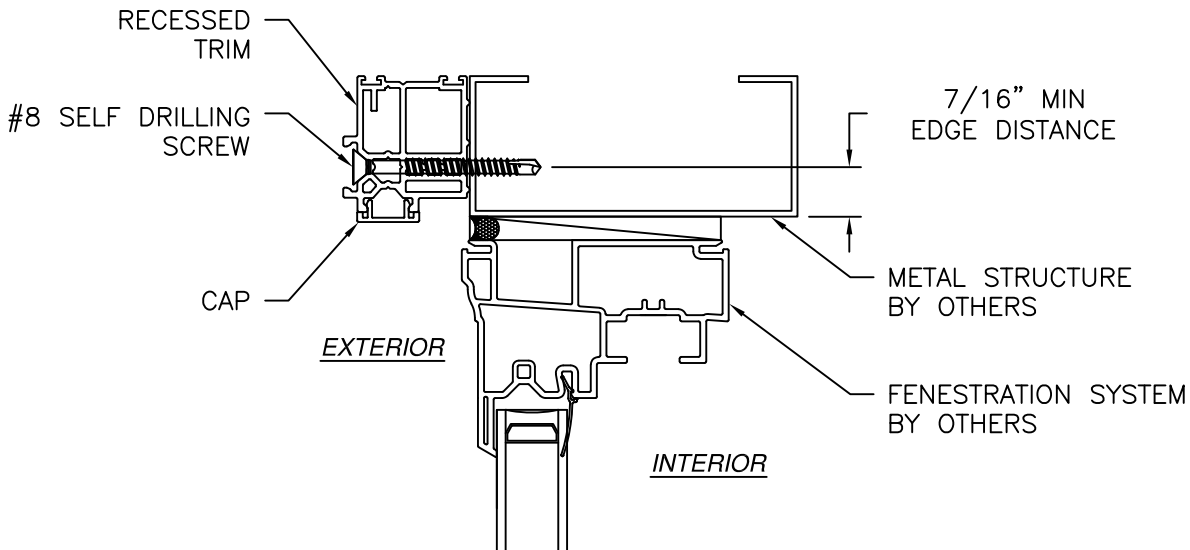


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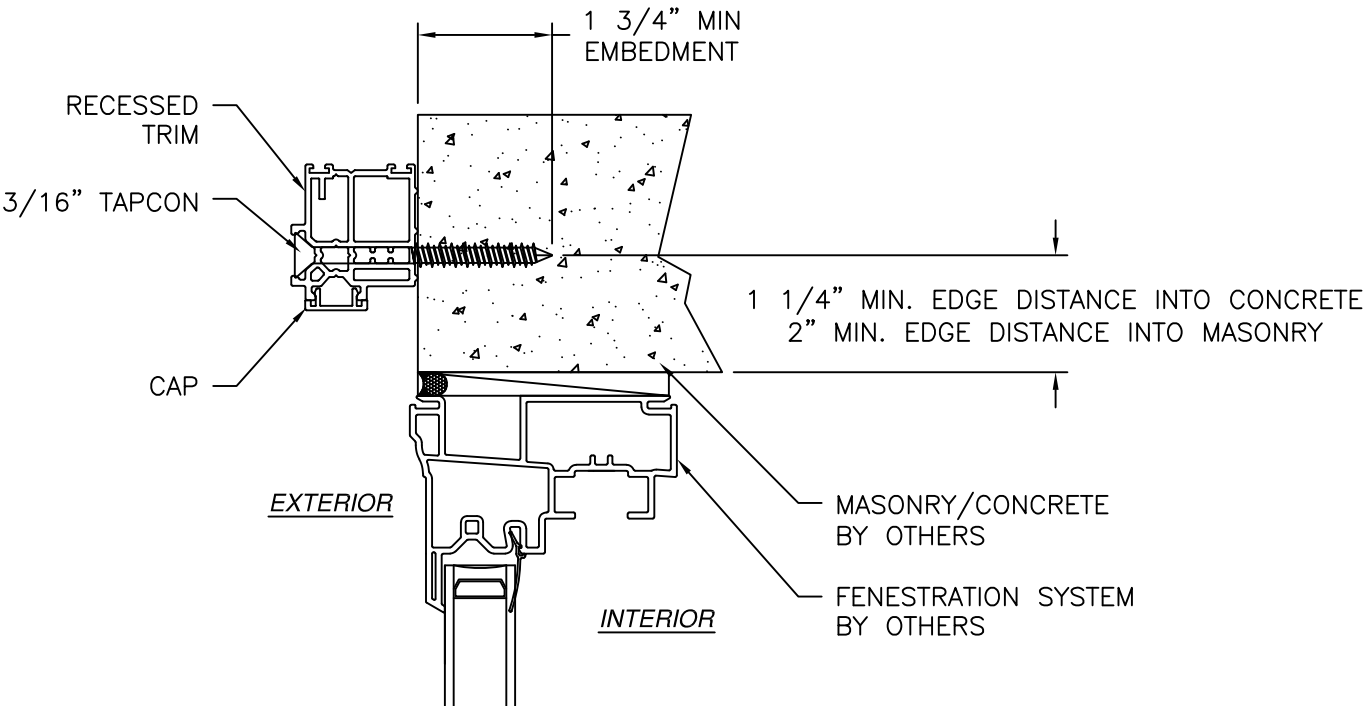
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



RECESSED TRIM INSTALLATION
WOOD FRAMING OR 2X BUCK
IMPACT PROTECTION NOT SHOWN FOR CLARITY



RECESSED TRIM INSTALLATION
METAL STRUCTURE
IMPACT PROTECTION NOT SHOWN FOR CLARITY

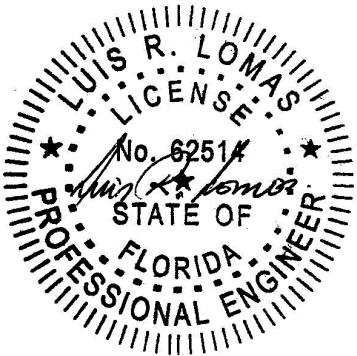


RECESSED TRIM INSTALLATION
MASONRY/CONCRETE
IMPACT PROTECTION NOT SHOWN FOR CLARITY

- NOTES:
- SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

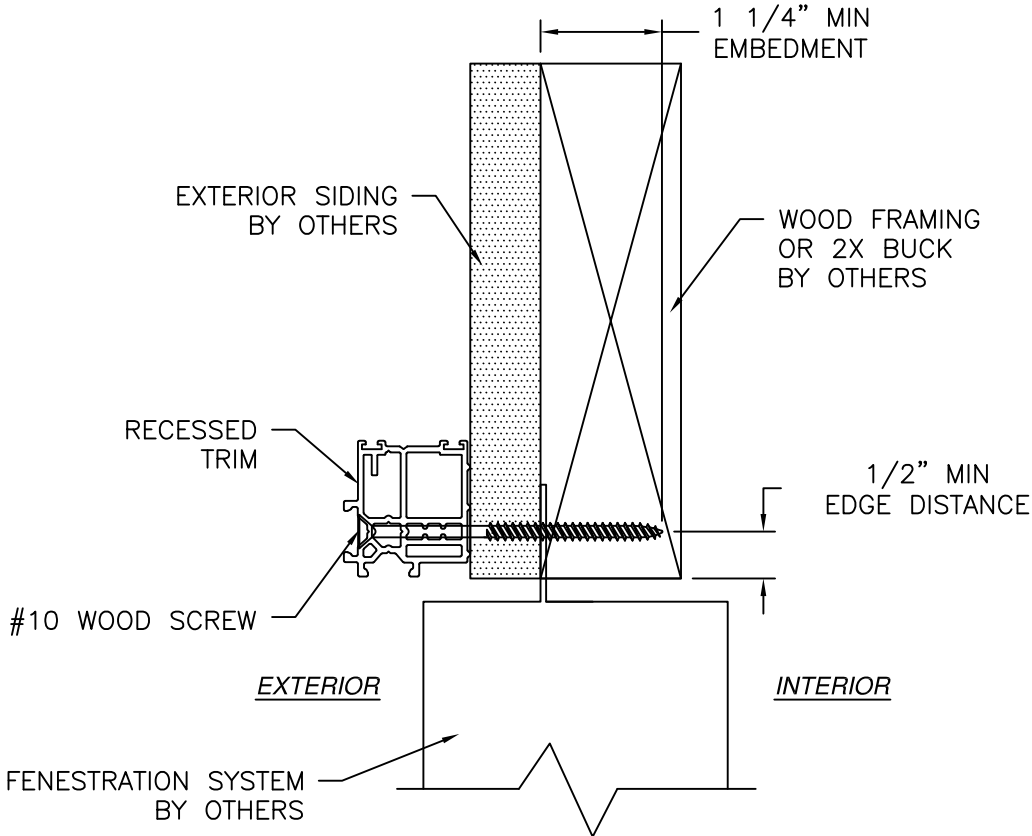
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THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
RECESSED TRIM LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-03618	REV -
SCALE NTS	DATE 09/22/2020	SHEET 5 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

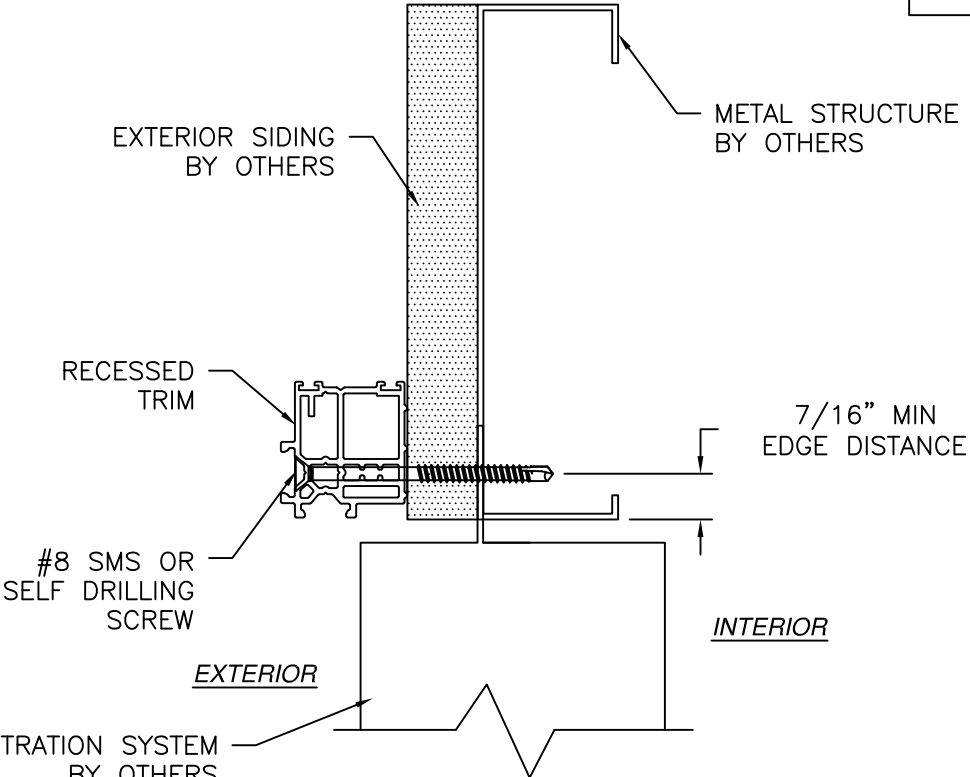


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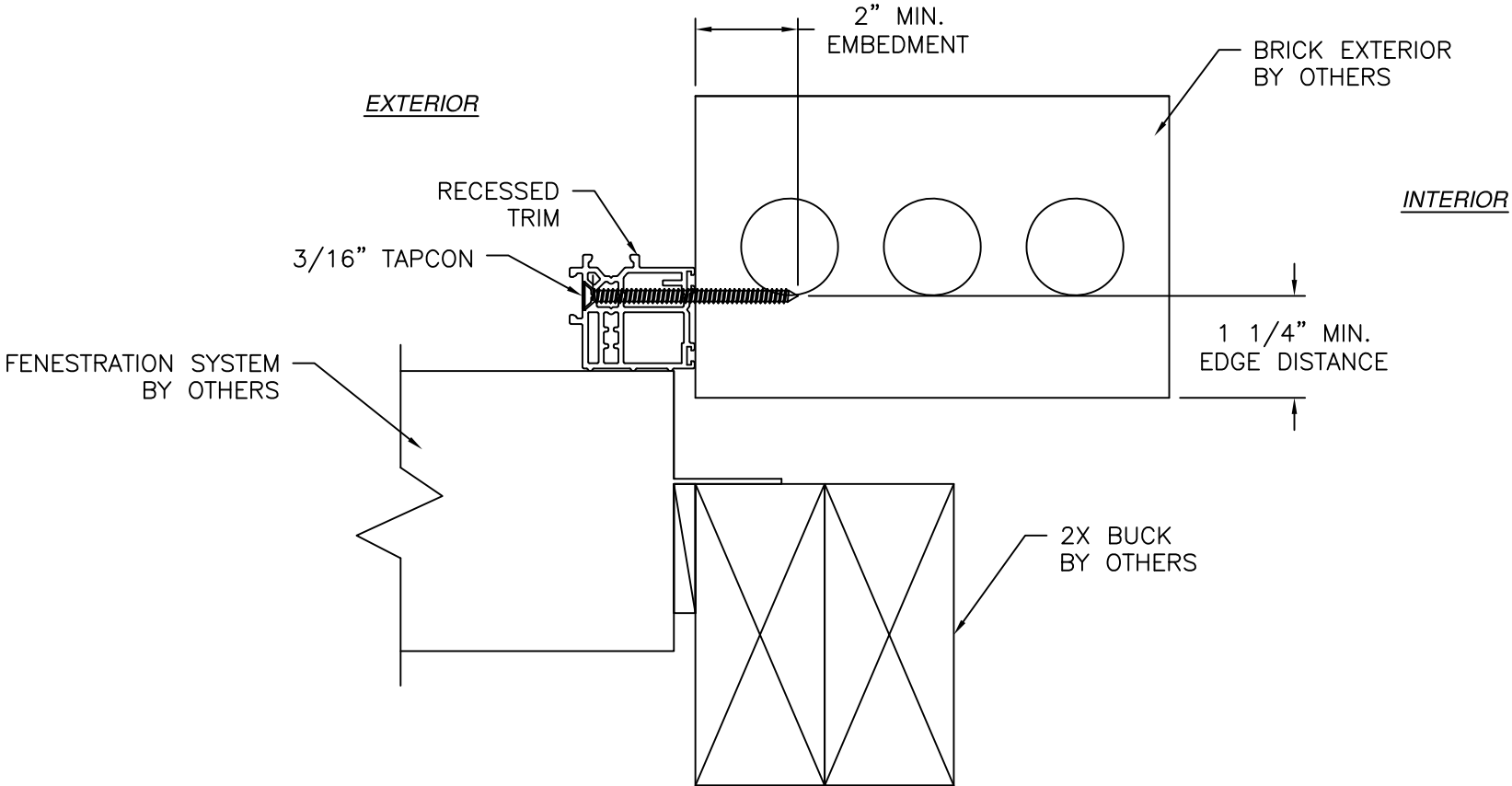


RECESSED TRIM INSTALLATION
WOOD FRAMING OR 2X BUCK
RETRO OR NEW CONSTRUCTION ON SIDING
(W/FACINGS) SURFACE MOUNTED



RECESSED TRIM INSTALLATION
METAL STRUCTURE
RETRO OR NEW CONSTRUCTION ON SIDING
(W/FACINGS) SURFACE MOUNTED

NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS
AND IMPACT PROTECTIVE SYSTEM TO BE IN
ACCORDANCE WITH PROTECTIVE SYSTEM
APPROVAL AND LIMITATIONS.



RECESSED TRIM INSTALLATION
RETRO ON BRICK INSTALLATION

THE MUHLER COMPANY

630 SKYLARK DRIVE SUITE U

CHARLESTON , SC 29407

RECESSED TRIM

LARGE AND SMALL MISSILE IMPACT

INSTALLATION DETAILS

DRAWN: R.L.

DWG NO. 08-03618

REV -

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DATE 09/22/2020

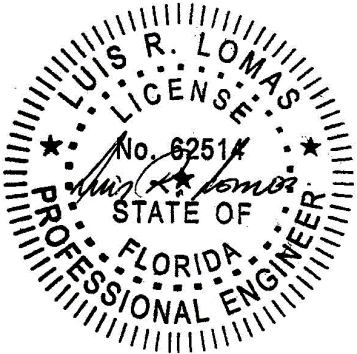
SHEET 6 OF 9

L. ROBERTO LOMAS P.E.

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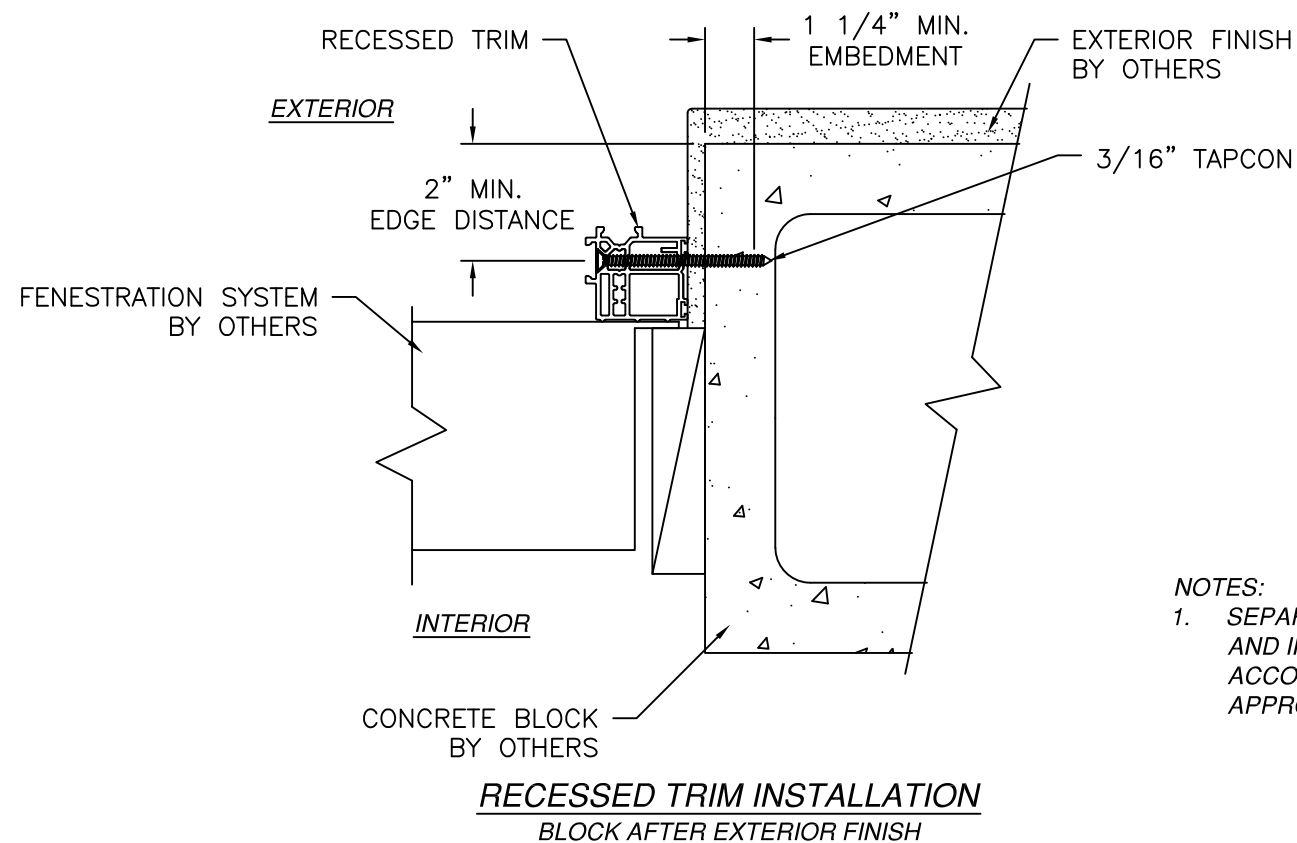
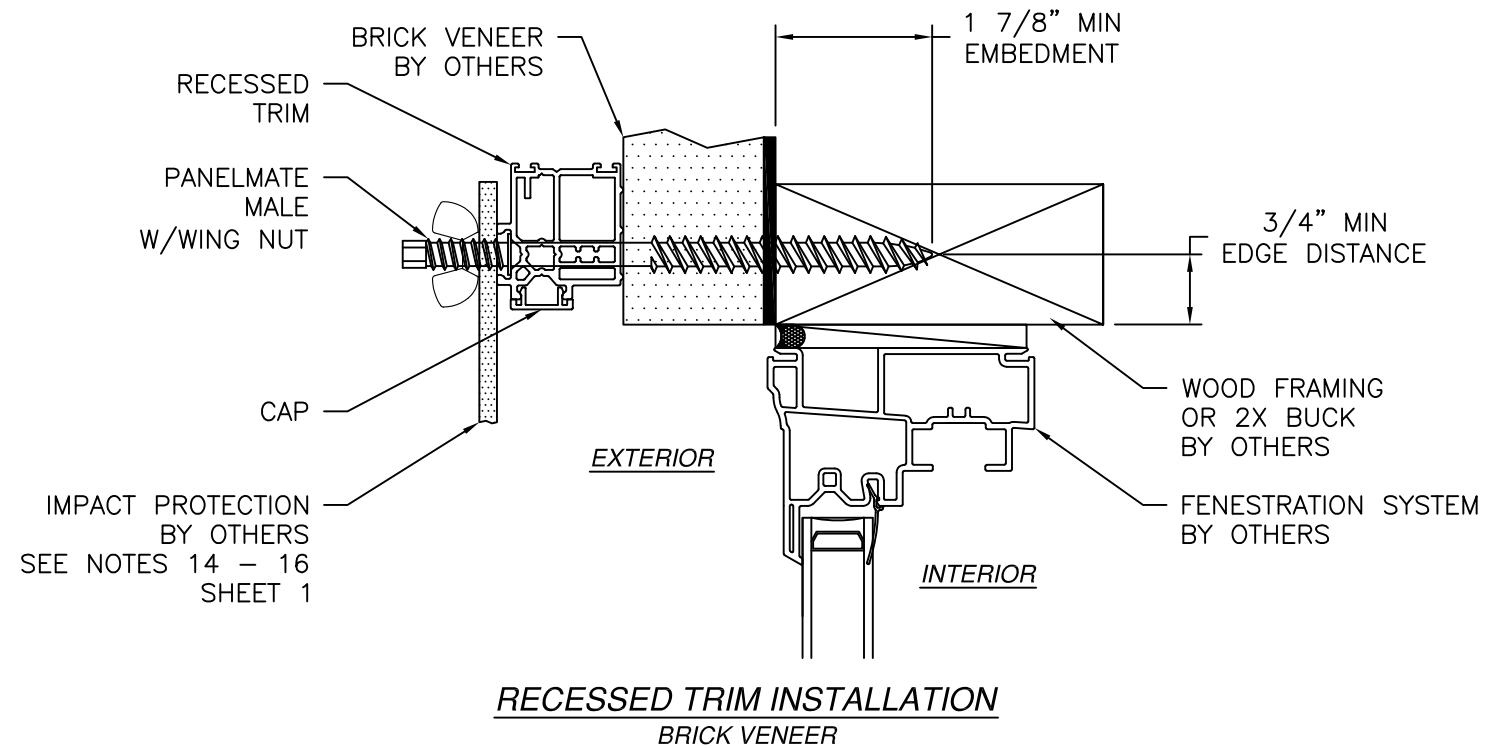
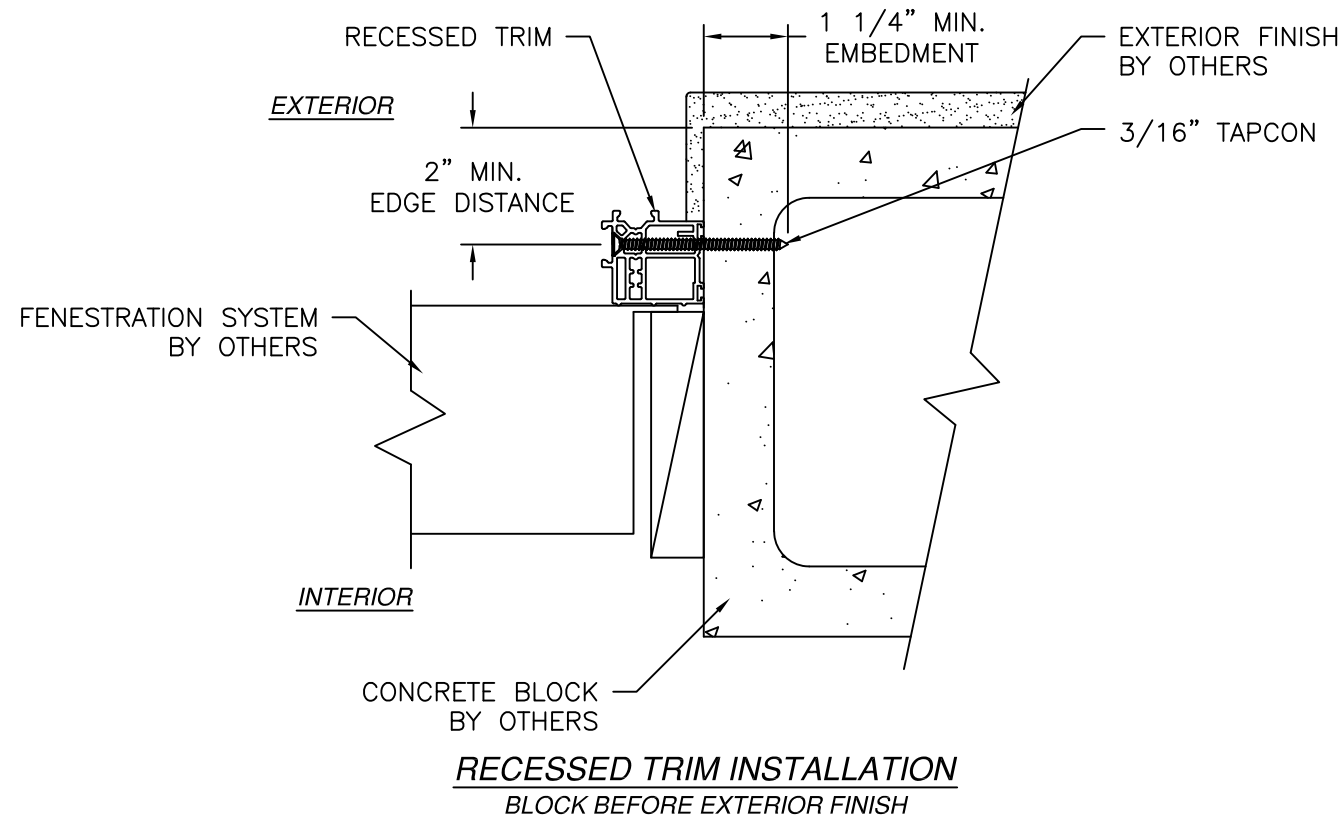
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- NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

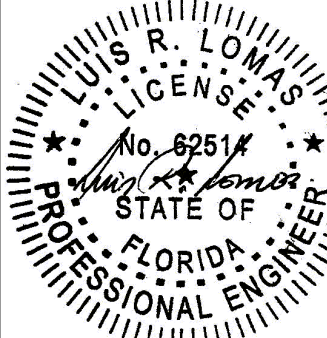
THE MUHLER COMPANY
630 SKYLARK DRIVE SUITE U
CHARLESTON , SC 29407

**RECESSED TRIM
LARGE AND SMALL MISSILE IMPACT
INSTALLATION DETAILS**

DRAWN: R.L.	DWG NO. 08-03618	REV -
SCALE NTS	DATE 09/22/2020	SHEET 7 OF 9

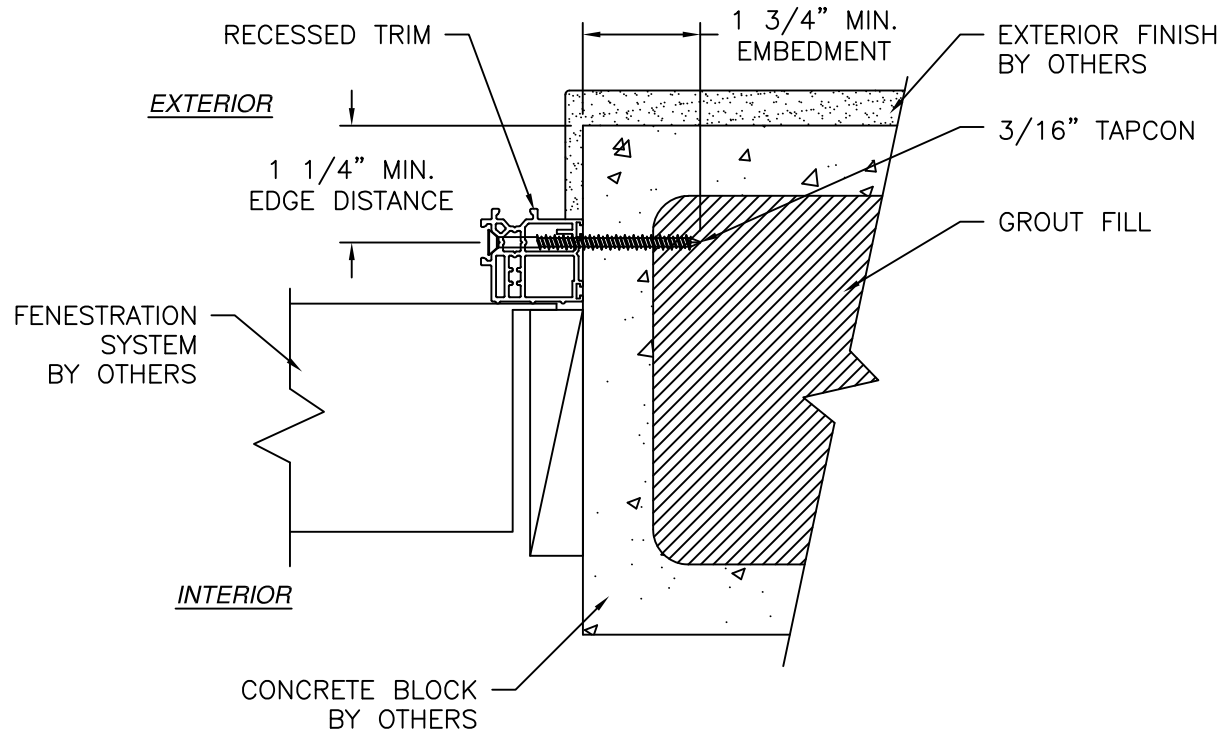
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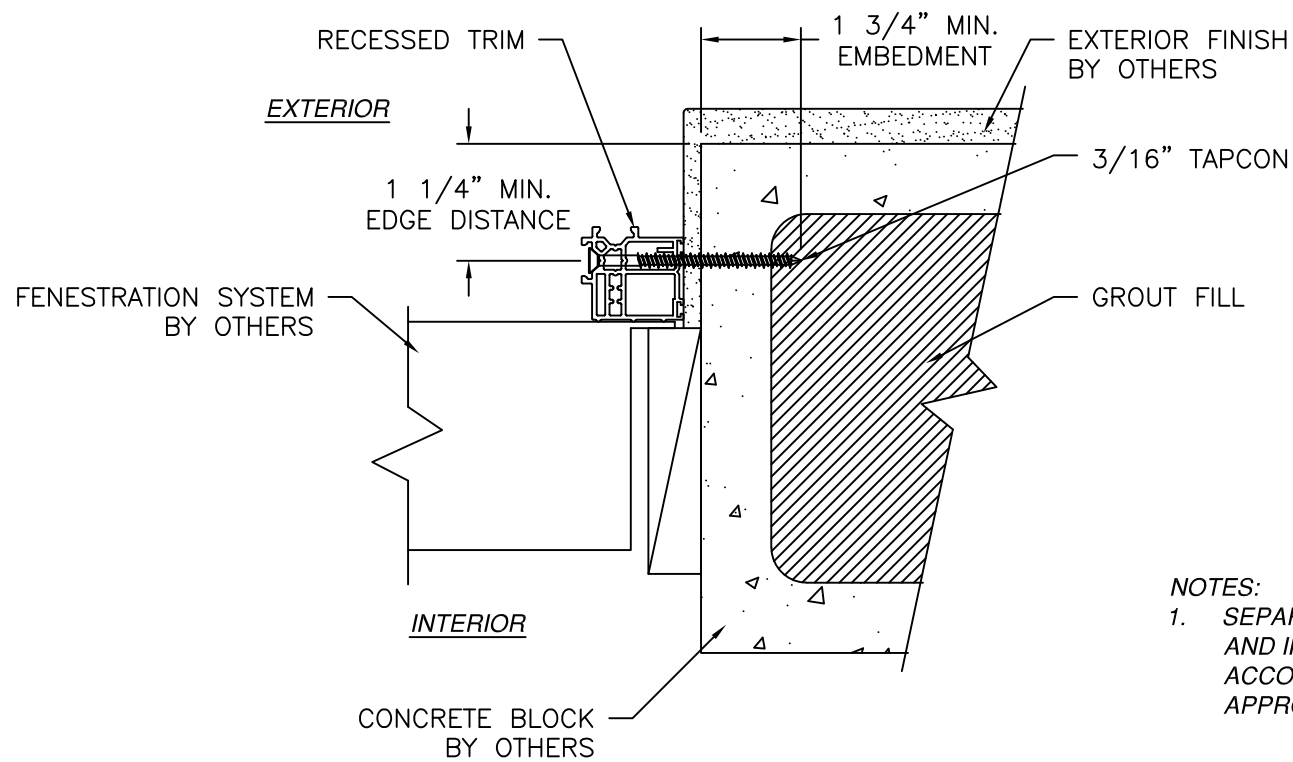


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RECESSED TRIM INSTALLATION
GROUT FILLED BLOCK BEFORE EXTERIOR FINISH



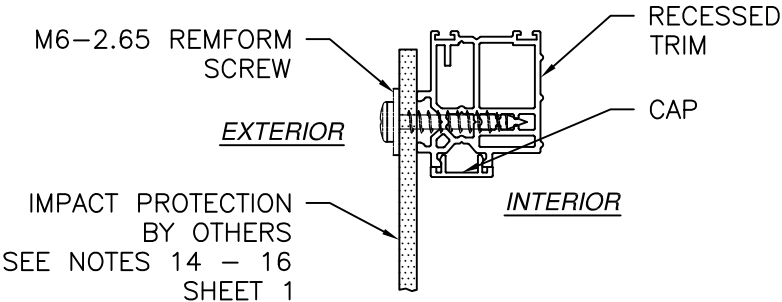
RECESSED TRIM INSTALLATION
GROUT FILLED BLOCK AFTER EXTERIOR FINISH

- NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS AND IMPACT PROTECTIVE SYSTEM TO BE IN ACCORDANCE WITH PROTECTIVE SYSTEM APPROVAL AND LIMITATIONS.

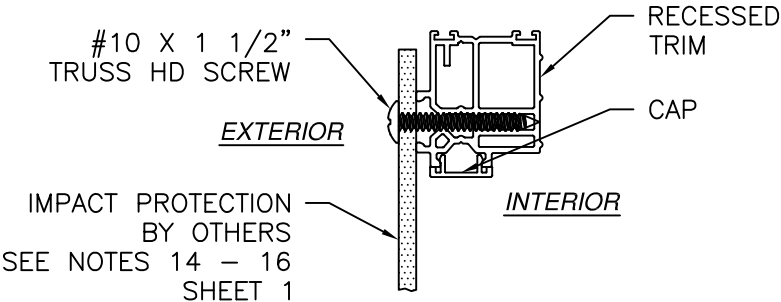
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THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407			
RECESSED TRIM LARGE AND SMALL MISSILE IMPACT INSTALLATION DETAILS			
DRAWN: R.L.	DWG NO. 08-03618	REV -	
SCALE NTS	DATE 09/22/2020	SHEET 8 OF 9	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			Luis R. Lomas P.E. FL No.: 62514

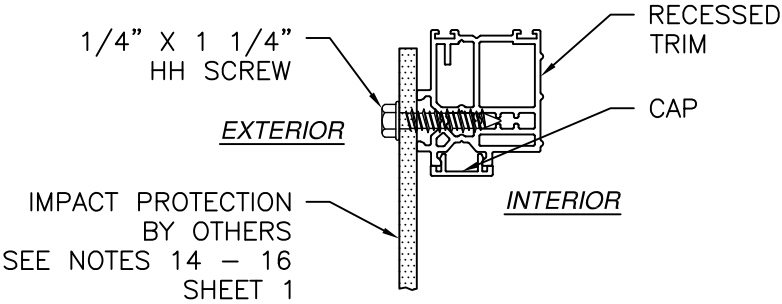
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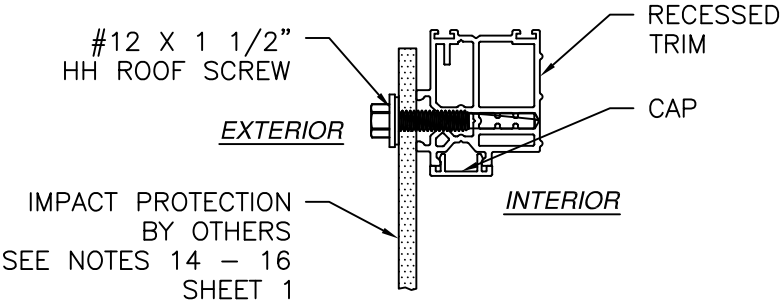
PROTECTIVE SYSTEM
INSTALLATION



PROTECTIVE SYSTEM
INSTALLATION

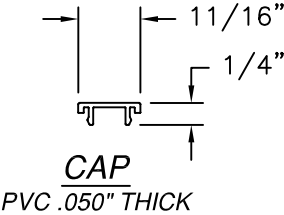
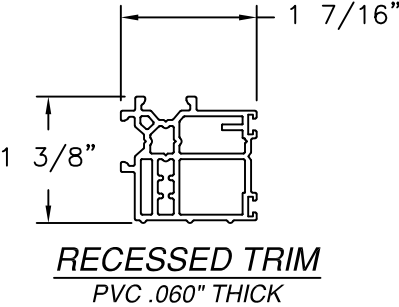


PROTECTIVE SYSTEM
INSTALLATION



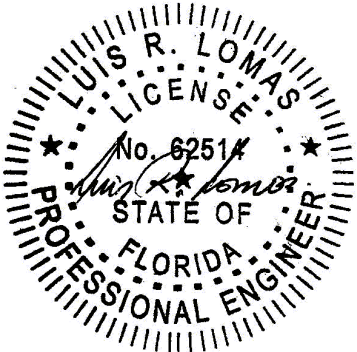
PROTECTIVE SYSTEM
INSTALLATION

NOTES:
1. SEPARATION BETWEEN FENESTRATION GLASS
AND IMPACT PROTECTIVE SYSTEM TO BE IN
ACCORDANCE WITH PROTECTIVE SYSTEM
APPROVAL AND LIMITATIONS.



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THE MUHLER COMPANY 630 SKYLARK DRIVE SUITE U CHARLESTON , SC 29407		
RECESSED TRIM LARGE AND SMALL MISSILE IMPACT COMPONENTS		
DRAWN: R.L.	DWG NO. 08-03618	REV -
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