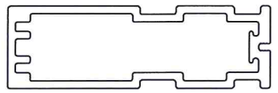
NewSouth WINDOW SOLUTIONS



6580 Mullion

6580
Extruded Aluminum
Horizontal Clipped Structural Mullion

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements, excluding the "High Velocity Hurricane Zone".

2. When used in areas requiring wind borne debris protection, this product (if mulled together with impact rated windows) does not require protection from an impact resistant covering when used in Wind Zones 1, 2 and 3 as defined by ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.

3. In Wind Zone 4 as defined by ASTM E 1996, this product must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.

4. Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as specified using this approval or the design pressure rating of the individual glazing products used.

5. Anchoring of each glazing product to the mullion shall be as shown in this drawing or as shown in each individual glazing product approval, whichever is more stringent.

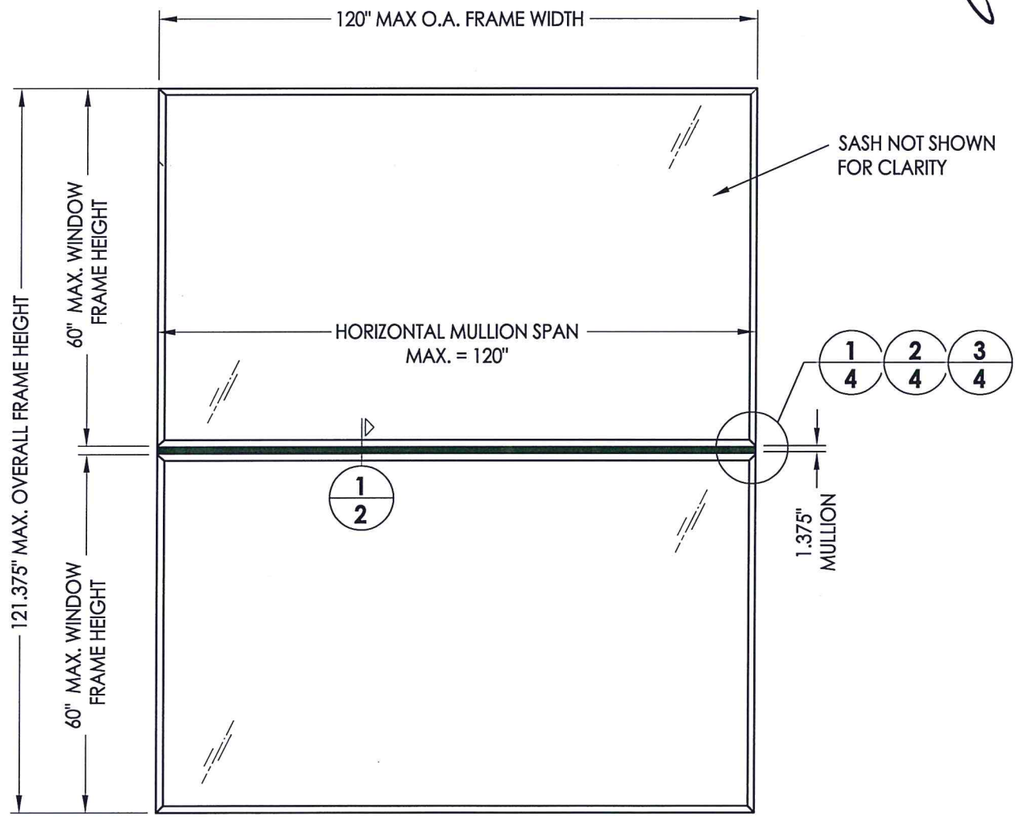
6. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.

7. Any conditions not covered in this evaluation are subject to separate engineering evaluation.

8. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.

TABLE OF CONTENTS

SHEET #	*DESCRIPTION*
1	Typical elevations & general notes
2	Component details & cross sections
3	Design pressure table
4	Anchor bracket details
5	Buck anchoring



MULLED WINDOW UNITS

(Twin unit shown, multiples also allowed)

See Sheet 3 for Design Pressure Ratings

L.F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

July 30, 2020

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R/W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: *CLIPPED MULLION*

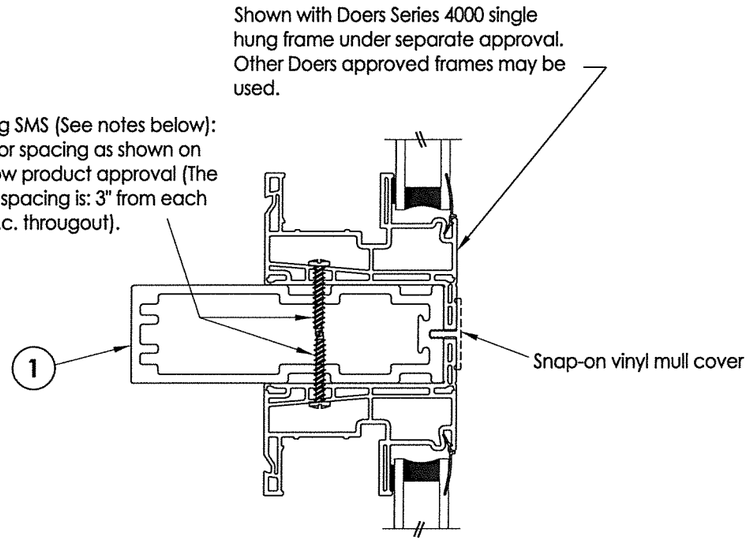
PART OR ASSEMBLY: *TYPICAL ELEVATIONS & GENERAL NOTES*

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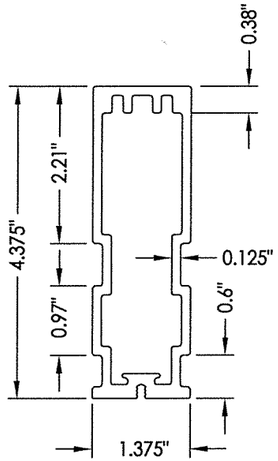
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SHEET 1 OF 5

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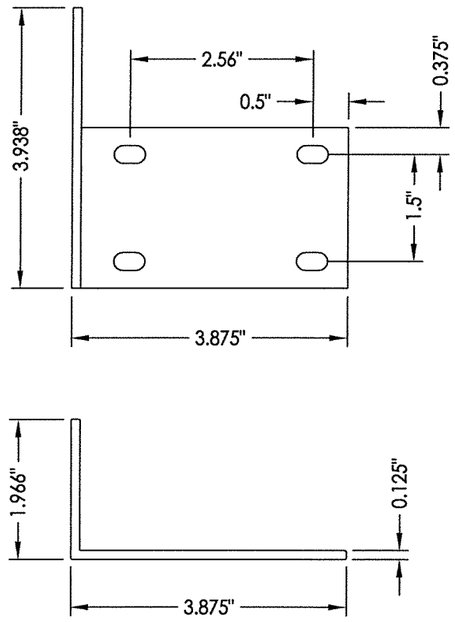
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1/2 HORIZONTAL CROSS SECTION
6580 Mullion to Window Connection



1 MULLION (6580)
6063-T6 ALUM



2 MULLION ANCHOR BRACKET (F-6150)
6063-T6 ALUM

Notes:
1. Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchoring specifications.
2. Sheet metal screws (self-drilling) shall have a minimum of 3 threads protrude completely through the mullion frame. Maintain a min. 1/2" edge distance.

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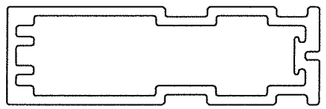
PART OR ASSEMBLY: COMPONENT DETAILS & CROSS SECTIONS

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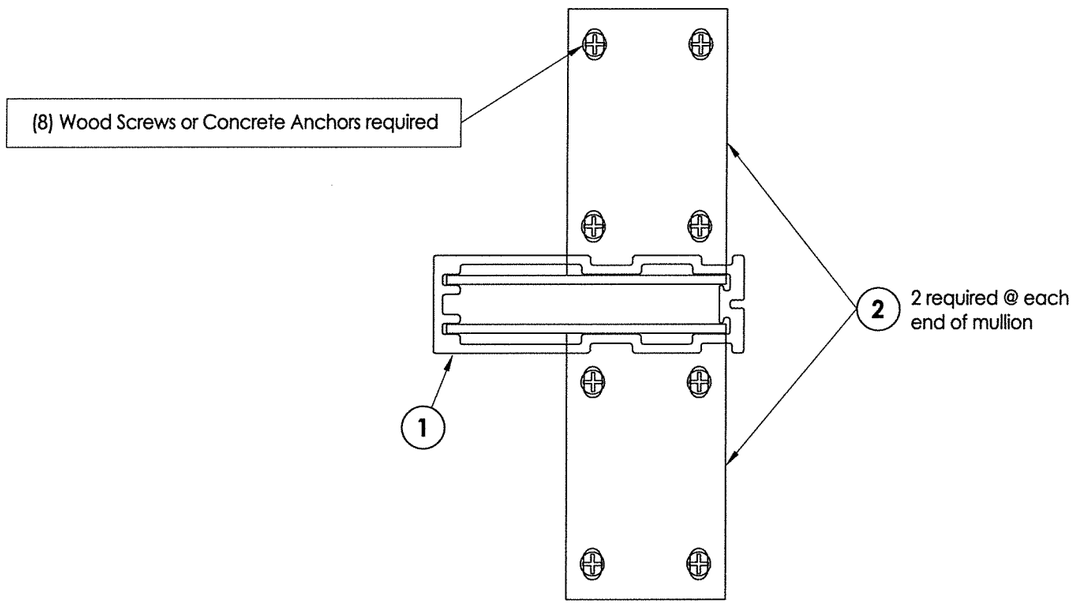
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6580 MULLION

6580 MULLION		DESIGN PRESSURE (PSF)									
		MAX. OVERALL FRAME HEIGHT									
		48"	56"	64"	72"	80"	88"	96"	104"	112"	121.375"
MAX. MULLION SPAN	120"	60	52	46	41	37	34	32	29	28	26
	112"	74	64	57	51	46	42	39	37	35	33
	104"	80	80	71	64	58	54	50	47	44	42
	96"	80	80	80	80	75	69	64	61	57	55
	90"	80	80	80	80	80	80	79	75	71	68
	84"	80	80	80	80	80	80	80	80	80	78
	80"	80	80	80	80	80	80	80	80	80	80



BRACKET (F-6150) TO MULLION DETAILS

Notes:

1. Design pressure table is applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheet 7 for cross section details.

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July 30, 2020

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PRODUCT: CLIPPED MULLION

PART OR ASSEMBLY: DESIGN PRESSURE TABLE

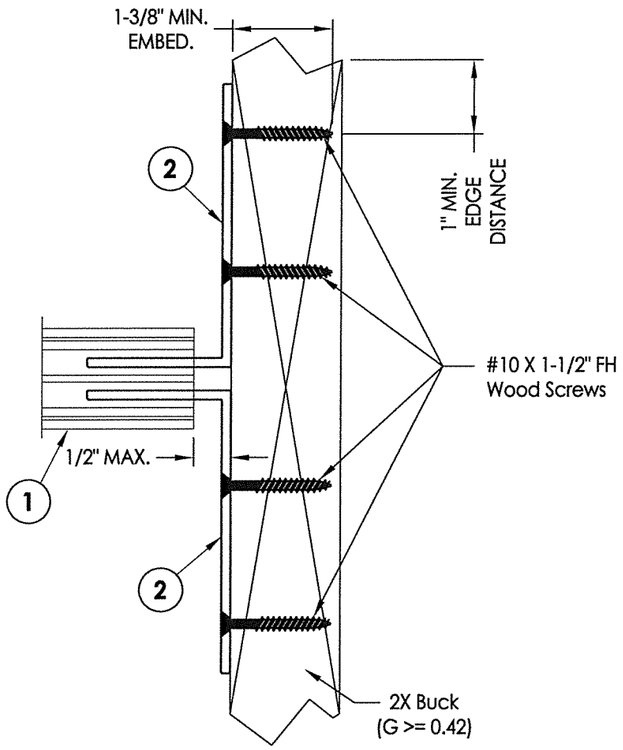
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SHEET 3 OF 5

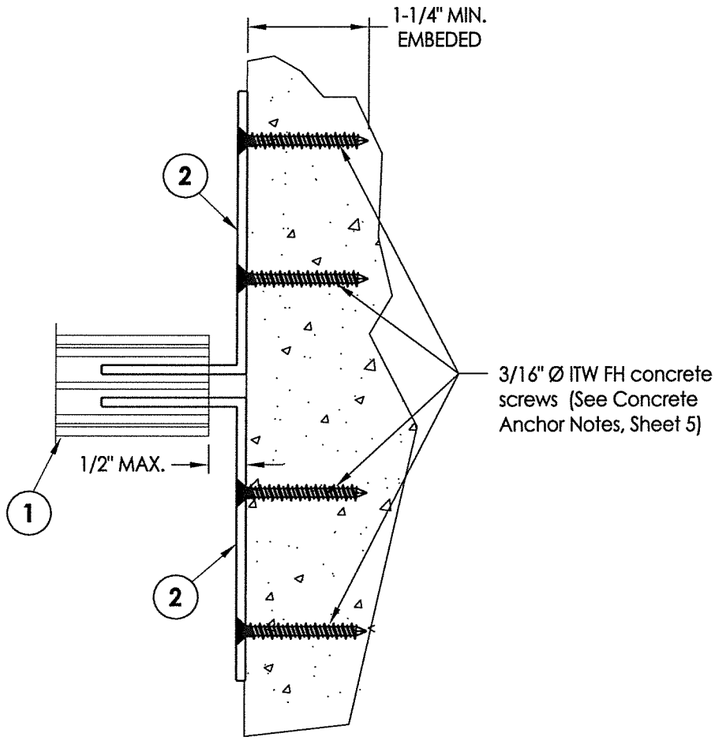
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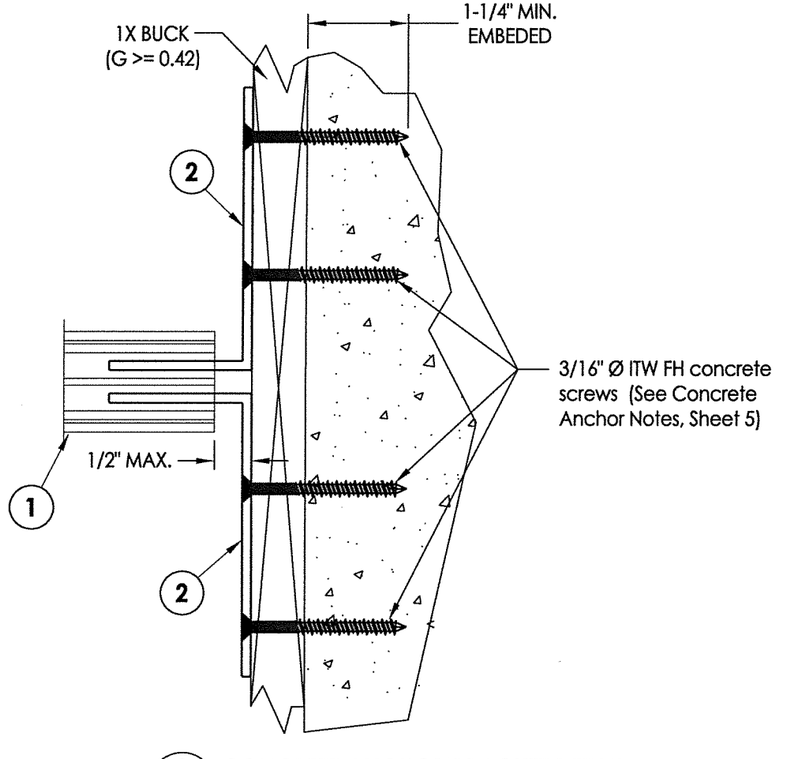
Note:
1. Window units not shown for clarity (TYP.)



1/4 WOOD ANCHOR BRACKET DETAIL
Anchor to 2x Buck



2/4 CONCRETE ANCHOR BRACKET DETAIL
Anchor Direct to Masonry



3/4 CONCRETE ANCHOR BRACKET DETAIL
Anchor to 2x Buck

L. F. SCHMIDT LICENSEE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER
July 30, 2020
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FBPE Registry No. 9813

PRODUCT: *CLIPPED MULLION*
PART OR ASSEMBLY: *ANCHOR BRACKET DETAILS*

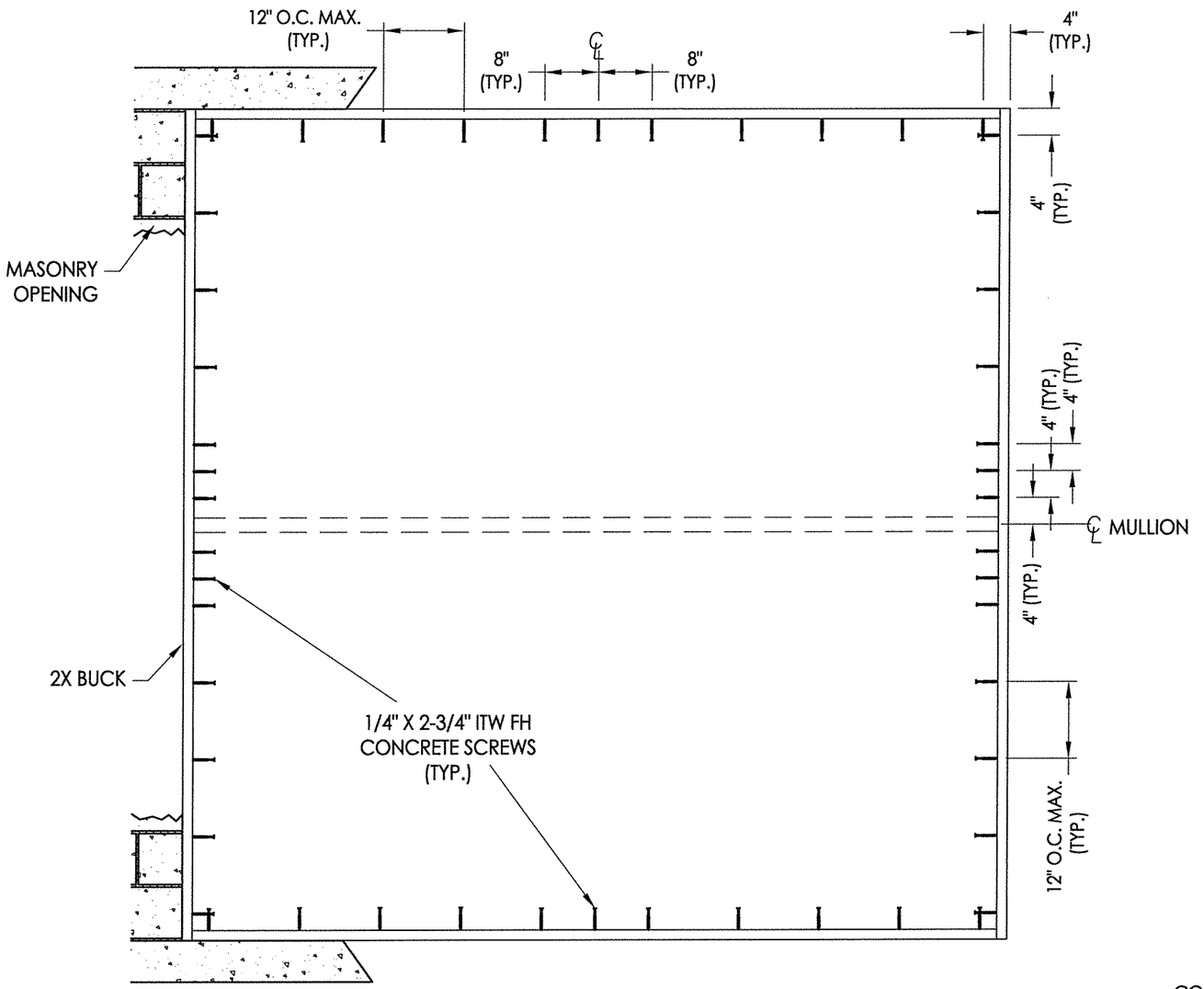
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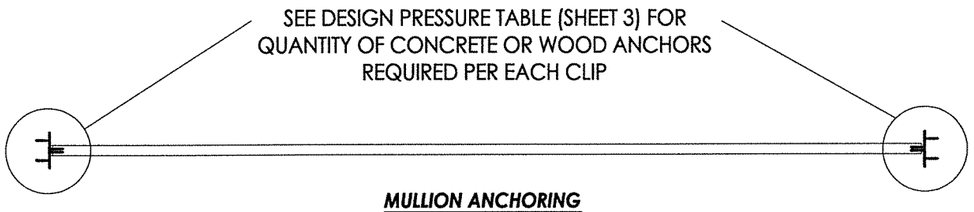
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2X BUCK ANCHORING



MULLION ANCHORING

CONCRETE ANCHOR NOTES:

1. *Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.*
2. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimensions are not exceeded.*
3. *Concrete anchor table:*

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	3/16"	1-1/4"	2"	1-1/2"
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"

4. Concrete shall be 3,000 PSI conforming to ACI 301 or hollow block conforming to ASTM C90.

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PRODUCT: *CLIPPED MULLION*

PART OR ASSEMBLY: *BUCK ANCHORING*

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