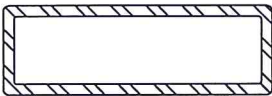


STRUCTURAL STEEL MULLION



1" x 3" x 1/8" STEEL MULLION

GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone".
2. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and excludes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.2 of the FBC.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
4. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
5. Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval.
6. Anchoring of each glazing product to the mullion shall be as shown in each individual glazing product approval.
7. Any conditions not covered in this evaluation are subject to separate Engineering evaluation.
8. Mullion design pressure rating, see load rating table sheets 2 - 5 of this drawing.
9. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as determined using this approval or the design pressure rating of the individual glazing products used.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations & General Notes
2	Mullion Load Table: Anchor Clip F2 (Concrete Screws)
3	Mullion Load Table: Anchor Clip F2 (Wood Screws)
4	Mullion Load Table: Anchor Clip B4 (Concrete Screws)
5	Mullion Load Table: Anchor Clip B4 (Wood Screws)
6	Anchor Clip F2: Anchoring Details
7	Anchor Clip B4: Anchoring Details



TYPICAL MULLION CONFIGURATIONS

7/28/15

FL E. SCHMIDT

FL LICENSE

No. 43409

STATE OF FLORIDA

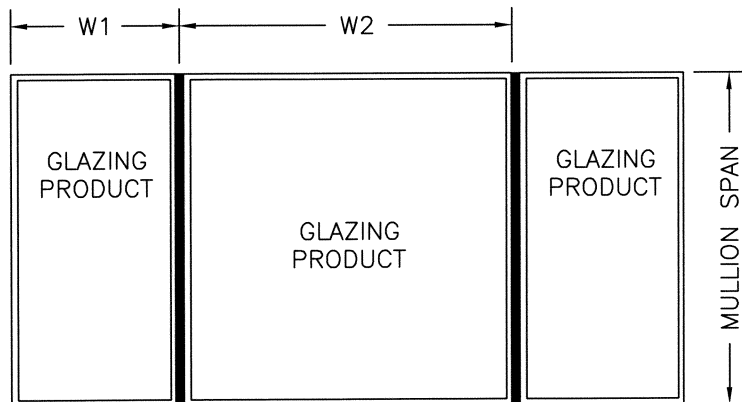
PROFESSIONAL ENGINEER

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		STRUCTURAL MULLION			
PART OR ASSEMBLY:		TYPICAL ELEVATION & GENERAL NOTES			
		LFS	BY		
		UPDATE TO 5TH ED. (2014) FBC			
		NO.	DATE		
		1	4/17/15		
		REVISIONS			
DATE: 02/28/12					
SCALE: NTS					
DWG. BY: EW					
CHK. BY: LFS					
DRAWING NO.: FL-15267.3					
SHEET 1 OF 7					

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

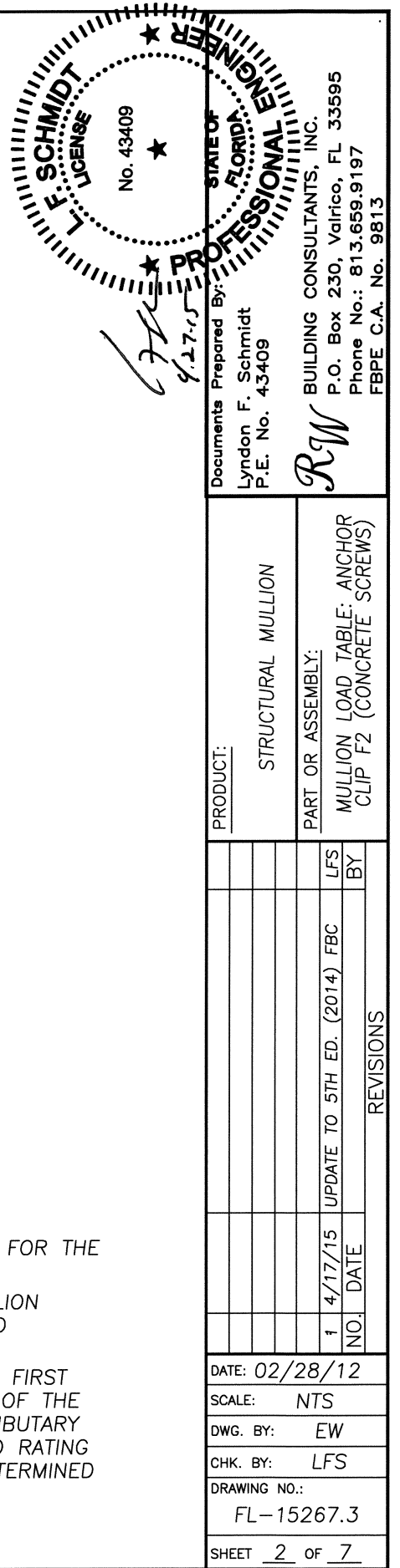


CONCRETE SCREW

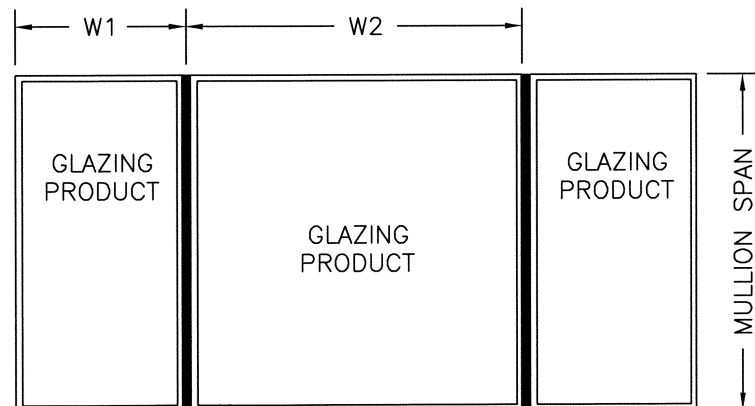
TRIBUTARY WIDTH

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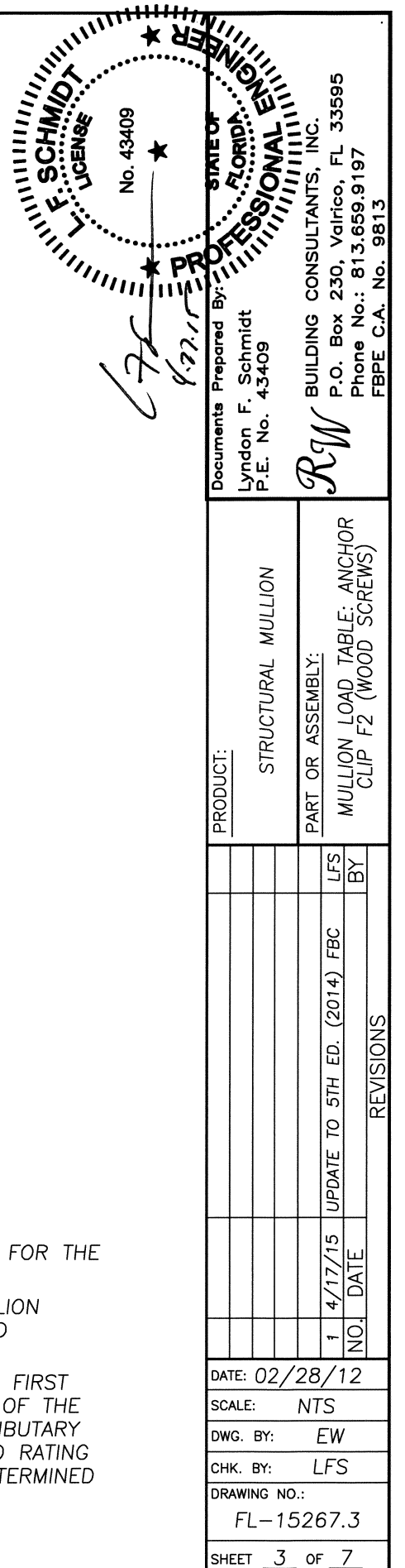
1. DETERMINE THE DESIGN LOAD REQUIREMENT PER CHAPTER 16 OF THE FBC FOR THE PARTICULAR OPENING.
2. FOR THE PARTICULAR OPENING, DETERMINE THE TRIBUTARY WIDTH AND MULLION SPAN. REFERENCE THE SKETCHES ON THIS SHEET FOR MULLION SPAN AND TRIBUTARY WIDTH DETERMINATION.
3. IN THE FIRST COLUMN OF THE TABLE, LOCATE THE MULLION SPAN. IN THE FIRST ROW OF THE TABLE, LOCATE THE TRIBUTARY WIDTH. AT THE INTERSECTION OF THE ROW CONTAINING THE MULLION SPAN AND THE COLUMN CONTAINING THE TRIBUTARY WIDTH, READ THE MULLION LOAD RATING GIVEN IN PSF. THE MULLION LOAD RATING MUST BE EQUAL TO OR GREATER THAN THE DESIGN LOAD REQUIREMENT DETERMINED IN STEP 1 ABOVE.



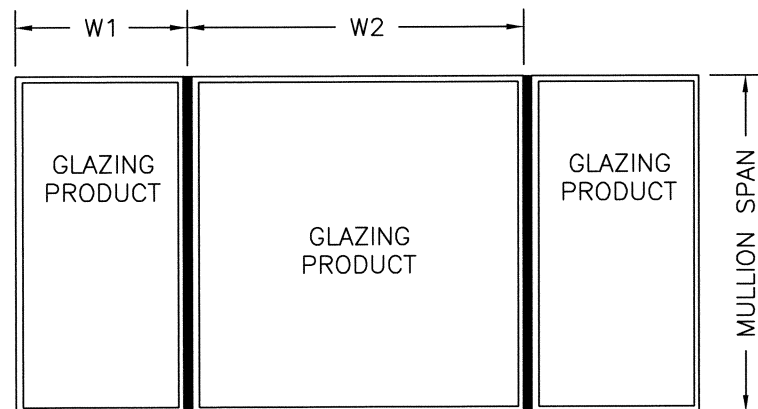
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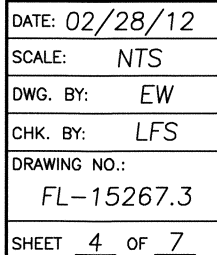
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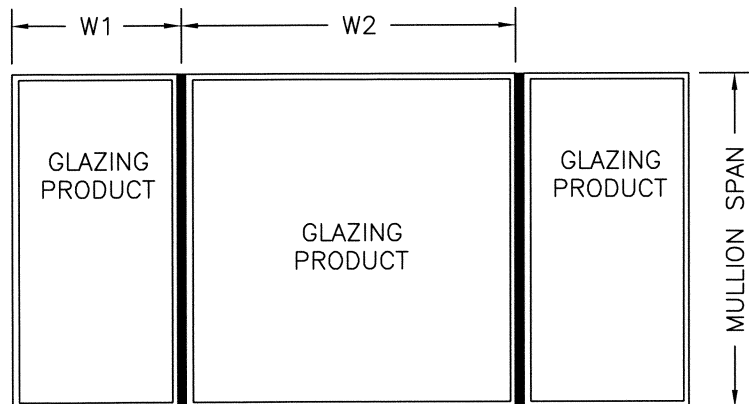
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

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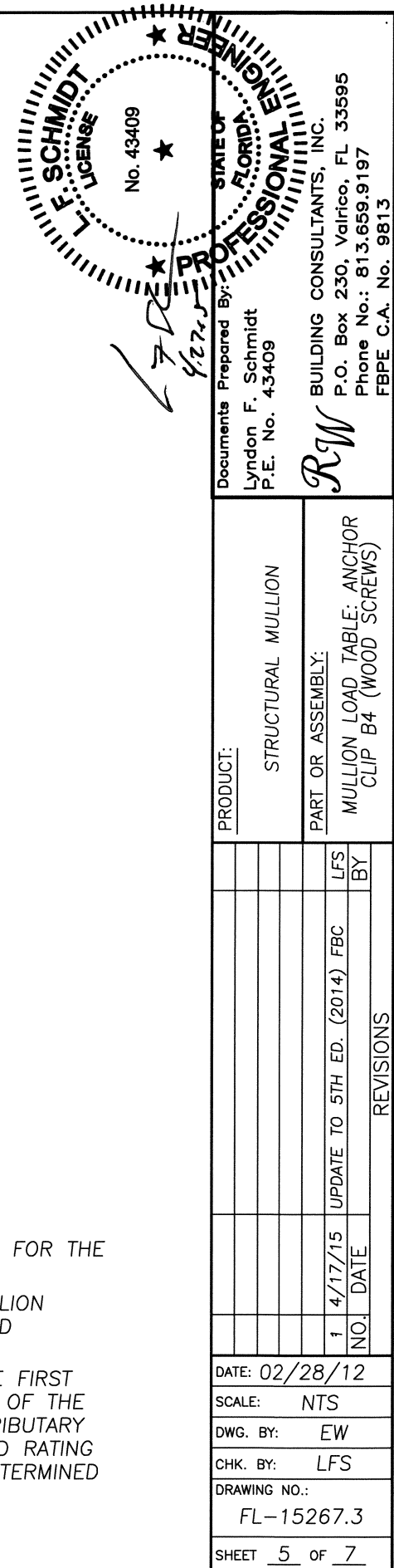
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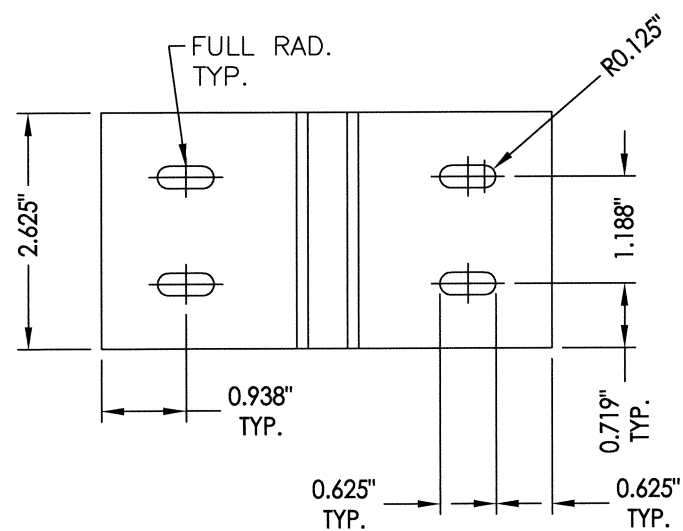
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

[illegible]

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Technical drawing of a cross-section of a structural member. The member has a total width of 5 inches and a total height of 2.375 inches. The top flange has a thickness of 0.125 inches typical. The web has a thickness of 0.437 inches. The distance from the left edge of the top flange to the centerline of the web is 2.157 inches.



1-3/8" MIN. EMBED.

(2) #10 x 1-1/2" WOOD SCREWS EACH SIDE

MULLION CLIP F2

1/4" MAX.

1" ST

x 3" x 1/8" STEEL MULLION

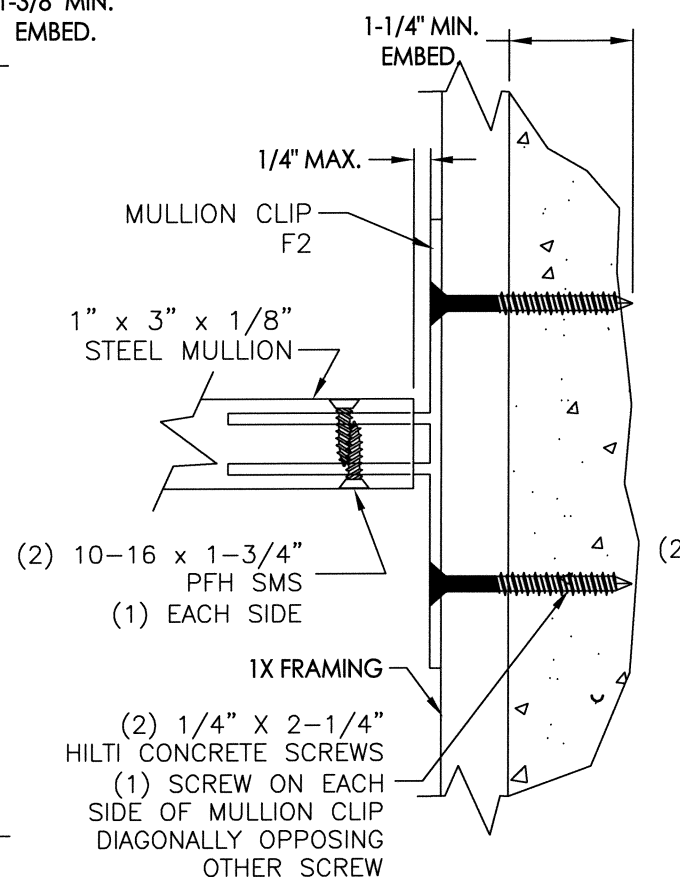
(2) 10-16 x 1-3/4" PFH SMS

(1) EACH SIDE

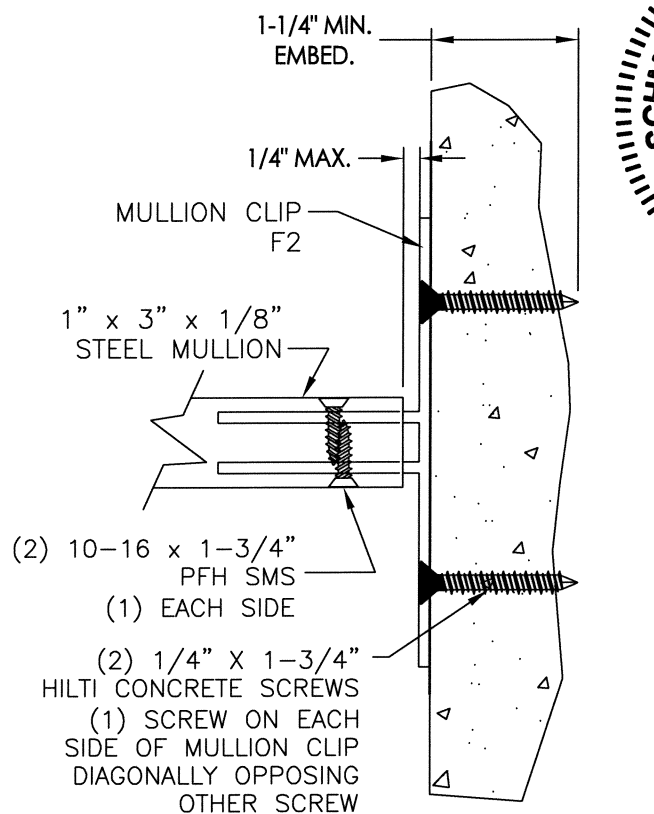
2X FRAMING

ANCHOR TO 2X

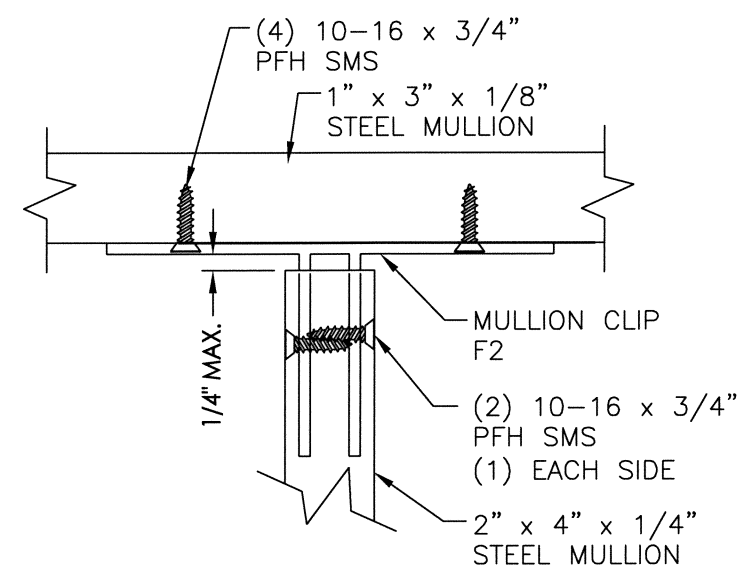
ANCHOR TO 2X



ANCHOR THROUGH 1X BUCK
USING 1/4" X 2-1/4"
HILTI CONCRETE SCREWS



ANCHOR TO MASONRY
USING 1/4" X 1-3/4"
HILTI CONCRETE SCREWS

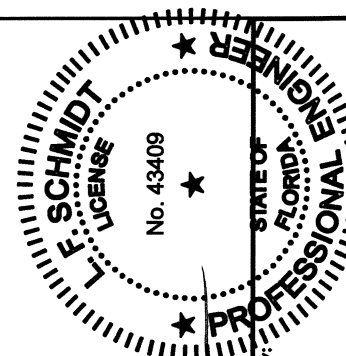


MULLION TO MULLION ANCHORING

MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW 	WOOD	1-3/8"	1"	1"
SELF-DRILLING SHEET METAL SCREW 	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	1"	1-1/8"
1/4" Ø PFH HILTI KWIK-CON II+ 	HOLLOW BLOCK	1-1/4"	2-1/2"	3"
	CONCRETE	1-1/4"	2-1/2"	3"

WOOD FRAMING (S.G. ≥ 0.42)
SHEET METAL SCREWS (SAE GRADE 5 MIN.): HILTI KWIK-FLEX or ELCO DRIL-FLEX
CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90

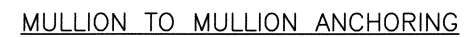
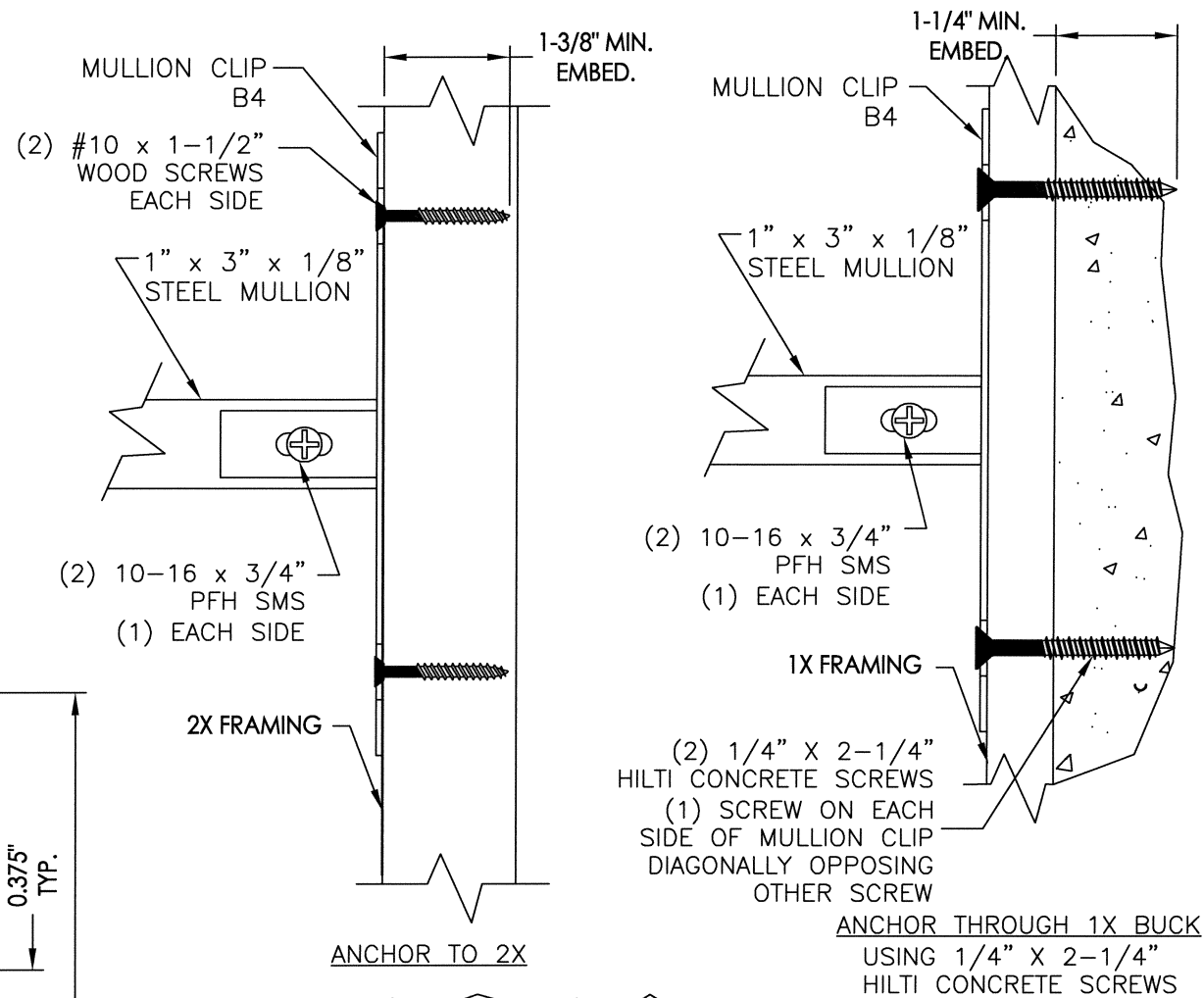
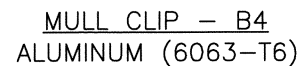
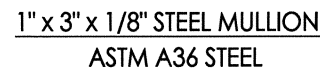
DISSIMILAR METALS THAT COME IN
CONTACT MUST BE PAINTED TO
AVOID CORROSION.



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

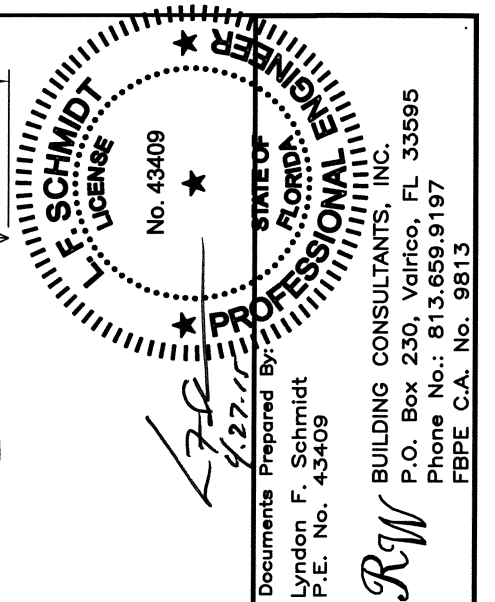
 BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		STRUCTURAL MULLION		PART OR ASSEMBLY:		ANCHOR CLIP F2: ANCHORING DETAILS	
						LFS	
						BY	
						REVISIONS	
						UPDATE TO 5TH ED. (2014)	FBC
						4/17/15	DATE
						NO.	
DATE: 02/28/12							
SCALE: NTS							
DWG. BY: EW							
CHK. BY: LFS							
DRAWING NO.: FL-15267.3							
SHEET 6 OF 7							



MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
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[illegible]