



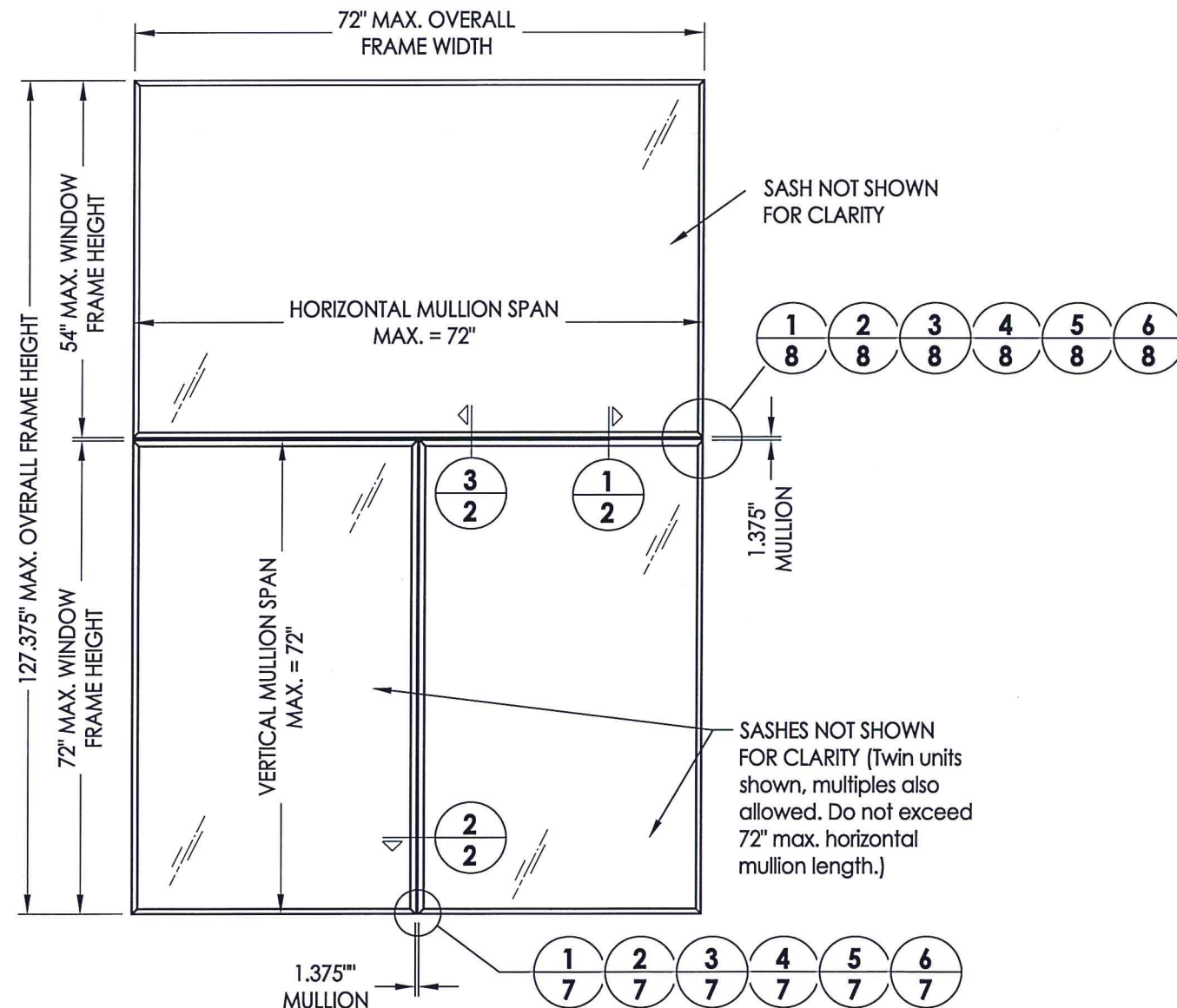
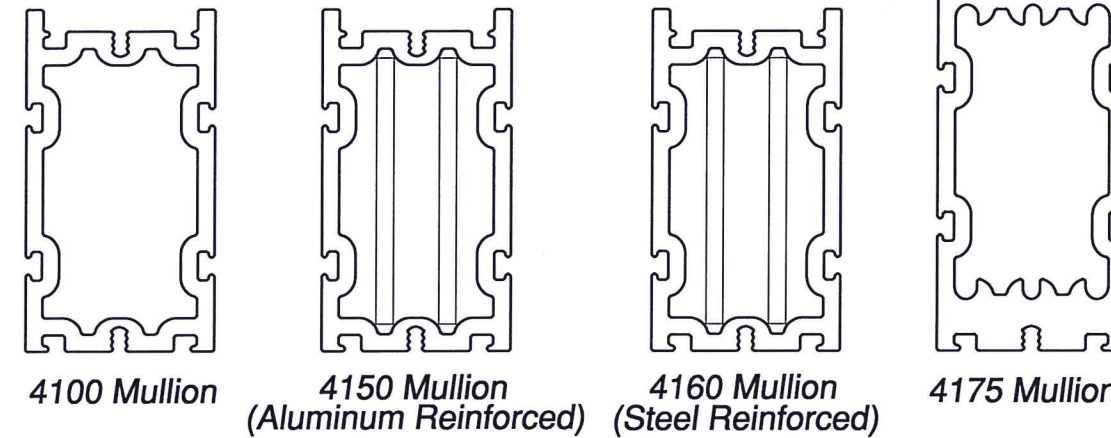
4100 / 4150 / 4160 / 4175 Extruded Aluminum Horizontal & Vertical Clipped Structural Mullions

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.

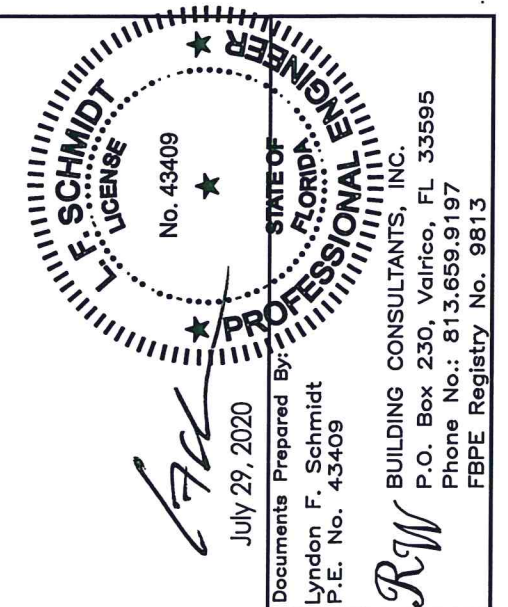
TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevations & general notes
2	Component details & cross sections
3	Design pressure tables (concrete installation)
4	Design pressure tables (concrete installation)
5	Design pressure tables (wood installation)
6	Design pressure tables (wood installation)
7	Anchor bracket details (vertical mullion)
8	Anchor bracket details (horizontal mullion)
9	Buck anchoring



MULLED TRANSOM OVER TWIN WINDOW UNITS

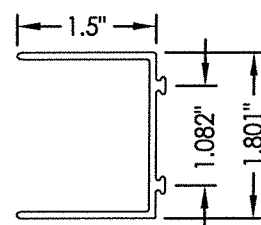
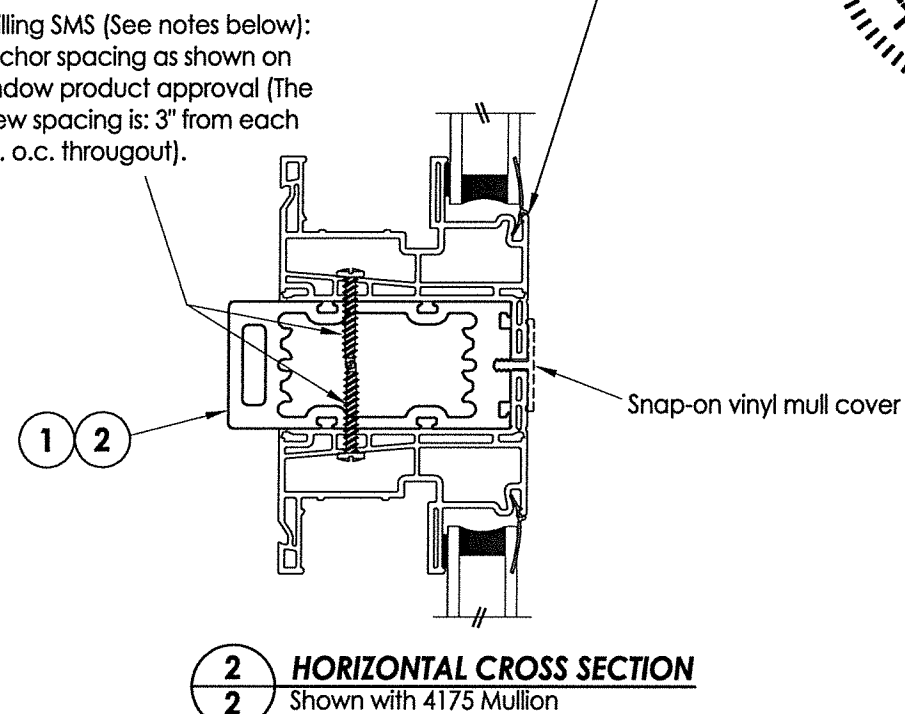
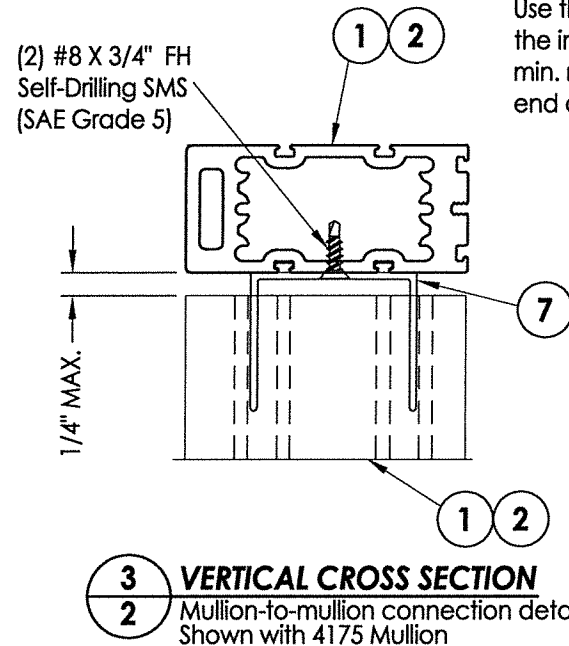
See Sheets 3, 4, 5 & 6 for Design Pressure Ratings



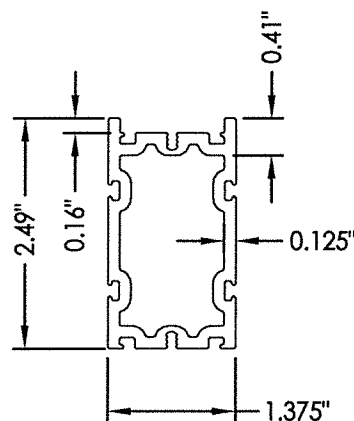
PRODUCT:		CLIPPED MULLION	
PART OR ASSEMBLY:		TYPICAL ELEVATIONS & GENERAL NOTES	
REVISIONS			
NO.	DATE	BY	
4	7/29/20	LFS	UPDATE TO 7TH ED (2020) FBC
3	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC
2	12/07/15	LFS	REVISED 4175 MULLION
1	04/22/15	JK	UPDATE TO 5TH ED. (2014) FBC
DATE:		1/7/13	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-15417.5	
SHEET		1 OF 9	

R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-15417 Windows - Mullions\C - Drawings\FL 15417 (2020) R7\FL-15417.4-6.dwg, 2-5

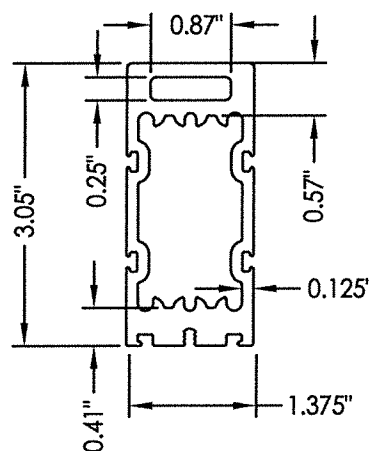
Shown with Doers Series 4000 single hung frame under separate approval. Other Doers approved frames may be used.



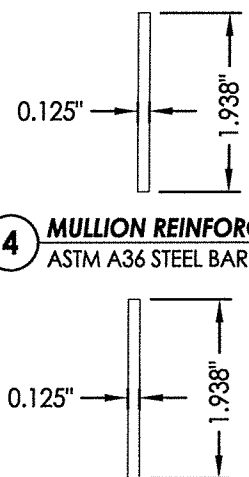
7 **MULLION-TO-MULLION CLIP (3314)**
6063-T6 ALUM (1.105" wide)



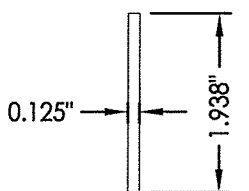
1 **MULLION (4100/4150)**
6063-T6 ALUM



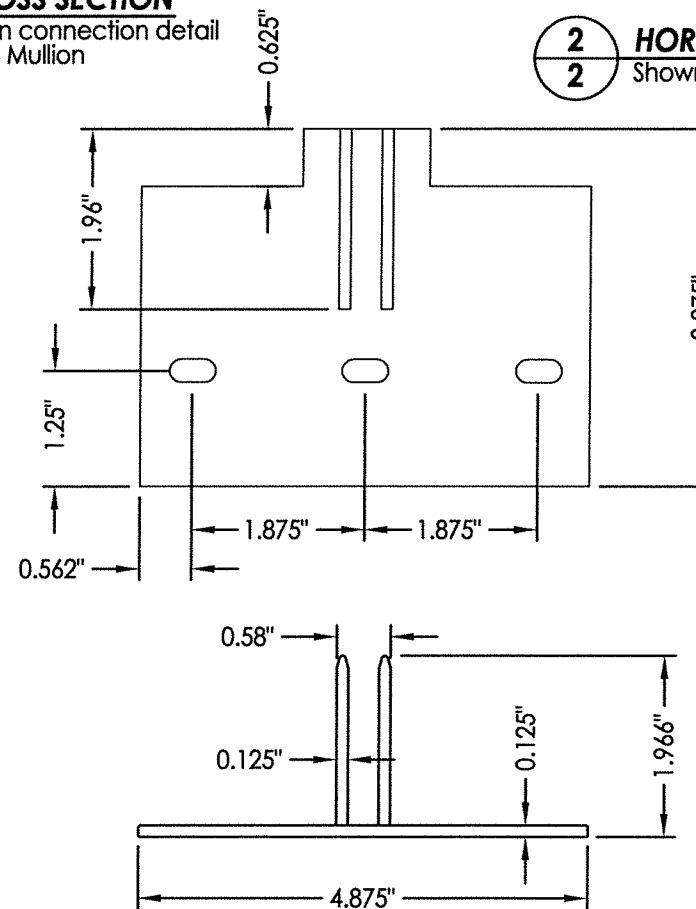
2 **MULLION (4175)**
6063-T6 ALUM



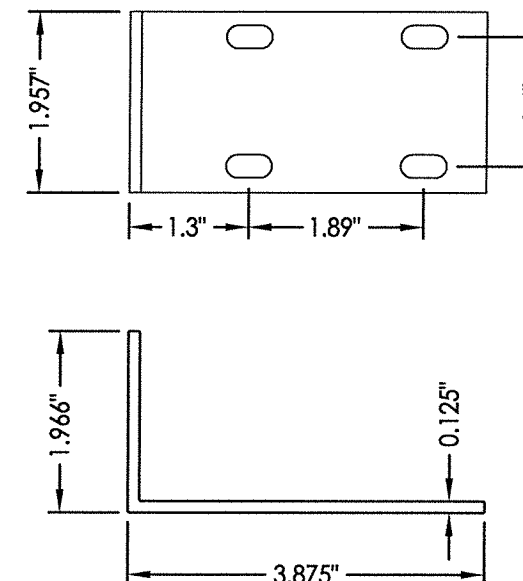
4 MULLION REINFORCEMENT
ASTM A36 STEEL BAR



3 MULLION REINFORCEMENT
6063-T6 ALUM BAR

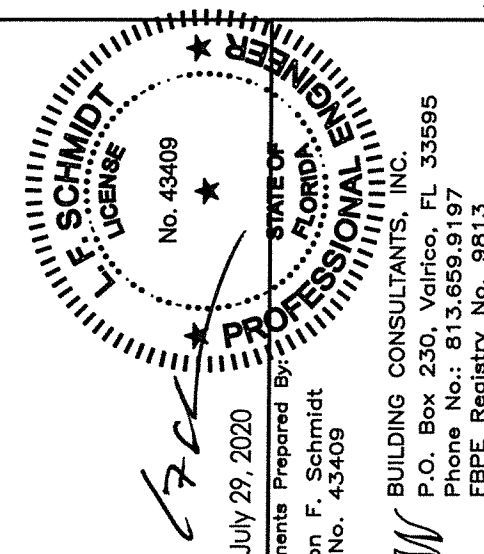


5 **MULLION ANCHOR BRACKET (3419)**
6063-T6 ALUM



6 MULLION ANCHOR BRACKET (3418)
6063-T6 ALUM

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.



July 29, 2020

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

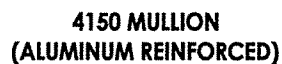
RAI BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 1/7/13		PRODUCT:		CLIPPED MULLION	PART OR ASSEMBLY:	COMPONENT DETAILS & CROSS SECTIONS
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-15417.5						
SHEET 2 OF 9		NO. DATE		REVISIONS		
		4	7/29/20	UPDATE TO 7TH ED. (2020) FBC	LFS	
		3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK	
		2	12/07/15	REVISED 4175 MULLION	LFS	
		1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK	
					BY	



4100 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	53	41	34	29	26	23	21	20
	69"	55	43	36	31	27	24	22	21
	66"	58	45	37	32	28	25	23	22
	63"	61	47	39	34	30	26	24	23
	60"	64	49	41	35	31	28	25	24
	54"	71	55	46	39	34	31	28	26
	48"	80	62	52	44	39	34	31	30



4150 MULLION (ALUMINUM REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	53	41	34	29	26	23	21	20
	69"	55	43	36	31	27	24	22	21
	66"	58	45	37	32	28	25	23	22
	63"	61	47	39	34	30	26	24	23
	60"	64	49	41	35	31	28	25	24
	54"	71	55	46	39	34	31	28	26
	48"	80	62	52	44	39	34	31	30



4175 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	53	41	34	29	26	23	21	20
	69"	55	43	36	31	27	24	22	21
	66"	58	45	37	32	28	25	23	22
	63"	61	47	39	34	30	26	24	23
	60"	64	49	41	35	31	28	25	24
	54"	71	55	46	39	34	31	28	26
	48"	80	62	52	44	39	34	31	30



4160 MILLION (STEEL REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375
MAX. HORIZONTAL MILLION SPAN	72"	53	41	34	29	26	23	21	20
	69"	55	43	36	31	27	24	22	21
	66"	58	45	37	32	28	25	23	22
	63"	61	47	39	34	30	26	24	23
	60"	64	49	41	35	31	28	25	24
	54"	71	55	46	39	34	31	28	26
	48"	80	62	52	44	39	34	31	30



(3) Concrete Anchors required

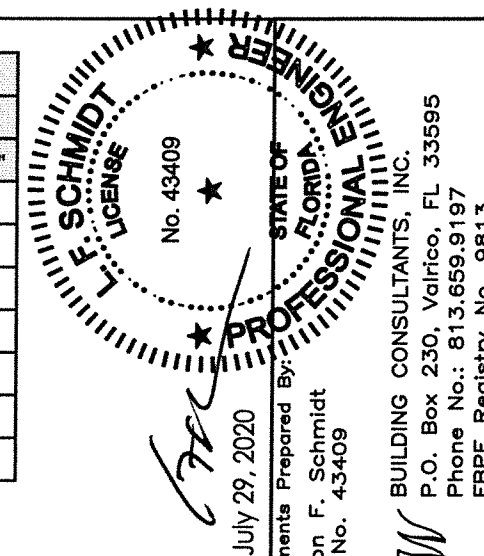


(3) Concrete Anchors required

BRACKET (3419) TO MULLION DETAILS Concrete Anchor Installation

Notes:

1. Design pressure tables are applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheets 7 & 8 for cross section details.



July 29, 2020

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 Registry No. 9813

PRODUCT:

CLIPPED MULLION

PART OR ASSEMBLY:

DESIGN PRESSURE TABLES
(CONCRETE INSTALLATION)[illegible]

DATE: 1/7/13

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-15417.5

SHEET 3 OF 9

© 2013 R.W. BUILDING CONSULTANTS INC.



4100 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	59	45	38	33	29	25	23	22
	69"	67	51	43	37	32	29	26	25
	66"	76	59	49	42	37	33	30	28
	63"	80	68	57	49	43	38	34	33
	60"	80	78	66	56	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



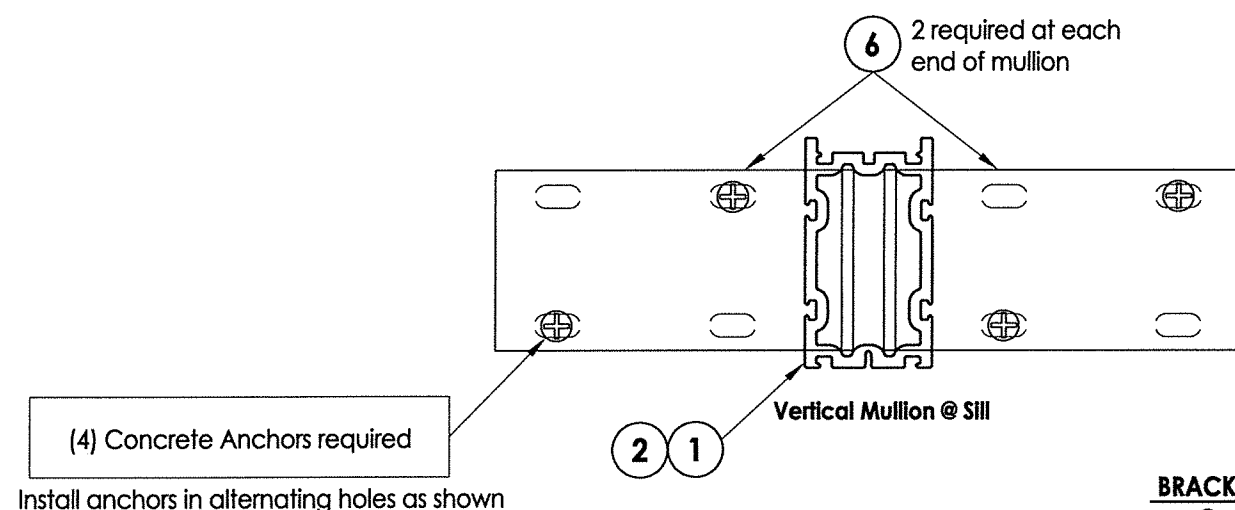
4150 MULLION (ALUMINUM REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	70	54	45	39	34	30	27	26
	69"	80	62	52	44	39	35	31	30
	66"	80	71	59	51	45	40	36	34
	63"	80	75	63	54	47	42	38	36
	60"	80	79	66	57	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



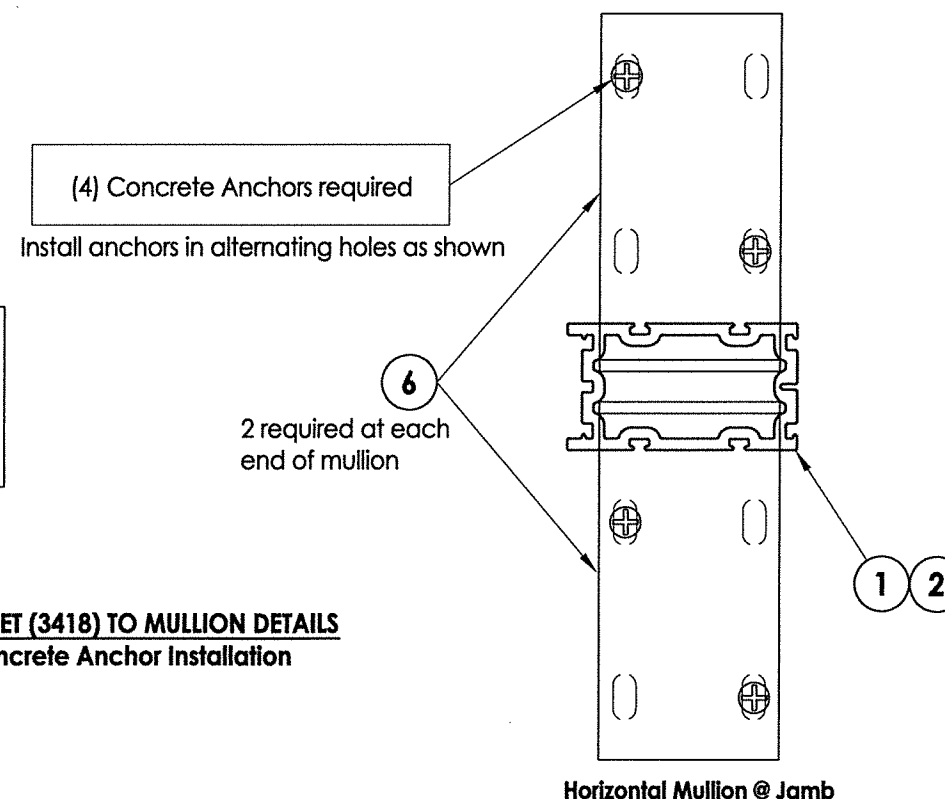
4175 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	80	66	55	47	41	37	33	32
	69"	80	69	57	49	43	39	35	33
	66"	80	72	60	52	45	40	36	35
	63"	80	75	63	54	47	42	38	36
	60"	80	79	66	57	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



4160 MULLION (STEEL REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	80	66	55	47	41	37	33	32
	69"	80	69	57	49	43	39	35	33
	66"	80	72	60	52	45	40	36	35
	63"	80	75	63	54	47	42	38	36
	60"	80	79	66	57	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



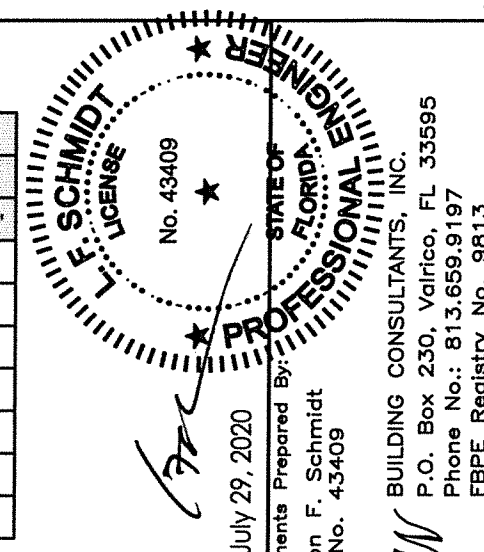
BRACKET (3418) TO MULLION DETAILS Concrete Anchor Installation



Horizontal Mullion @ Jamb

Notes:

1. Design pressure tables are applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheets 7 & 8 for cross section details.



July 29, 2020

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

RAI BUILDING CONSULTANTS, INC.



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

PRODUCT: CLIPPED MULLION

OR ASSEMBLY:
DESIGN PRESSURE TABLES
(CONCRETE INSTALLATION)

[illegible]

DATE: 1/7/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

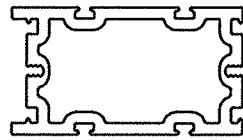
DRAWING NO.:

FL-15417.5

SHEET 4 OF 9

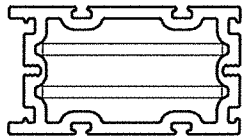
© 2013 R.W. BUILDING CONSULTANTS INC.

R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-15417 Windows - Mullions\C - Drawings\FL 15417 (2020) RA\FL-15417.4-6.dwg, 5-5



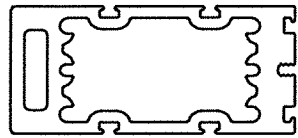
4100 MULLION

4100 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	59	45	38	33	29	25	23	22
	69"	67	51	43	37	32	29	26	25
	66"	76	59	49	42	37	33	30	28
	63"	80	68	57	49	43	38	34	33
	60"	80	78	66	56	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



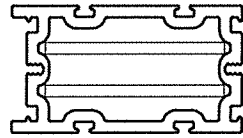
4150 MULLION
(ALUMINUM REINFORCED)

4150 MULLION (ALUMINUM REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	70	54	45	39	34	30	27	26
	69"	80	62	52	44	39	35	31	30
	66"	80	71	59	51	45	40	36	34
	63"	80	75	63	54	47	42	38	36
	60"	80	79	66	57	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



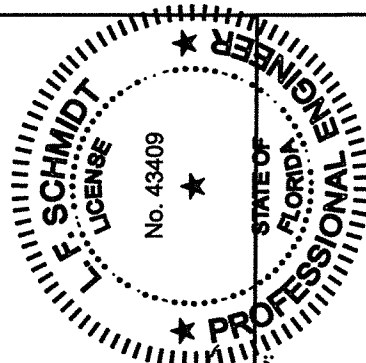
4175 MULLION

4175 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	80	66	55	47	41	37	33	32
	69"	80	69	57	49	43	39	35	33
	66"	80	72	60	52	45	40	36	35
	63"	80	75	63	54	47	42	38	36
	60"	80	79	66	57	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



4160 MULLION
(STEEL REINFORCED)

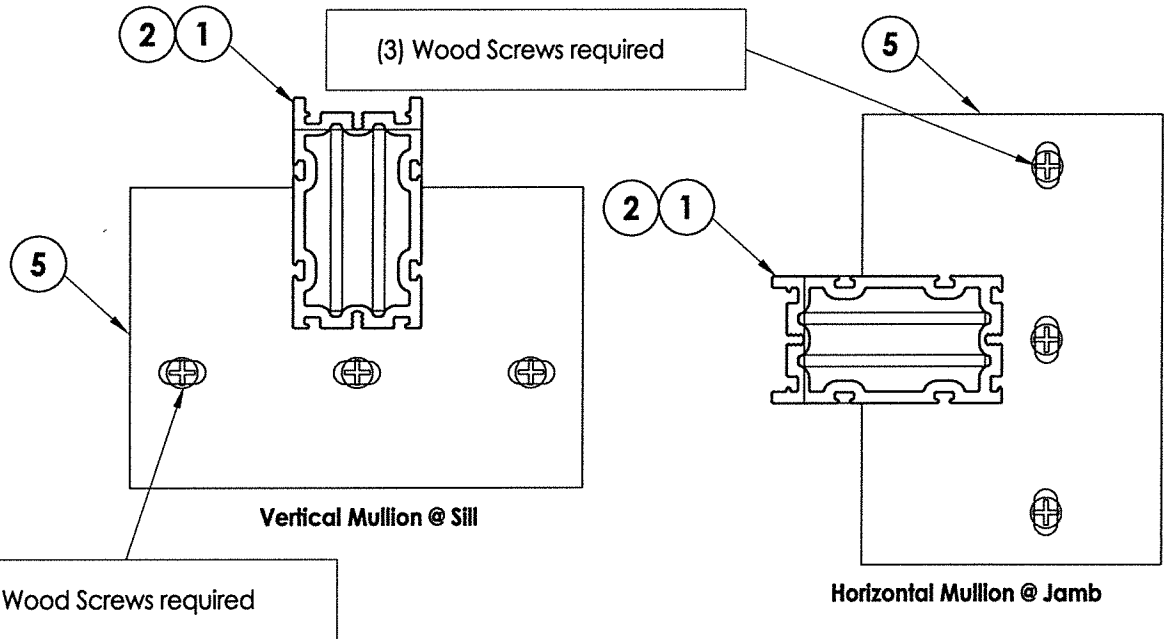
4160 MULLION (STEEL REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	80	66	55	47	41	37	33	32
	69"	80	69	57	49	43	39	35	33
	66"	80	72	60	52	45	40	36	35
	63"	80	75	63	54	47	42	38	36
	60"	80	79	66	57	50	44	40	38
	54"	80	80	73	63	55	49	44	42
	48"	80	80	80	71	62	55	50	48



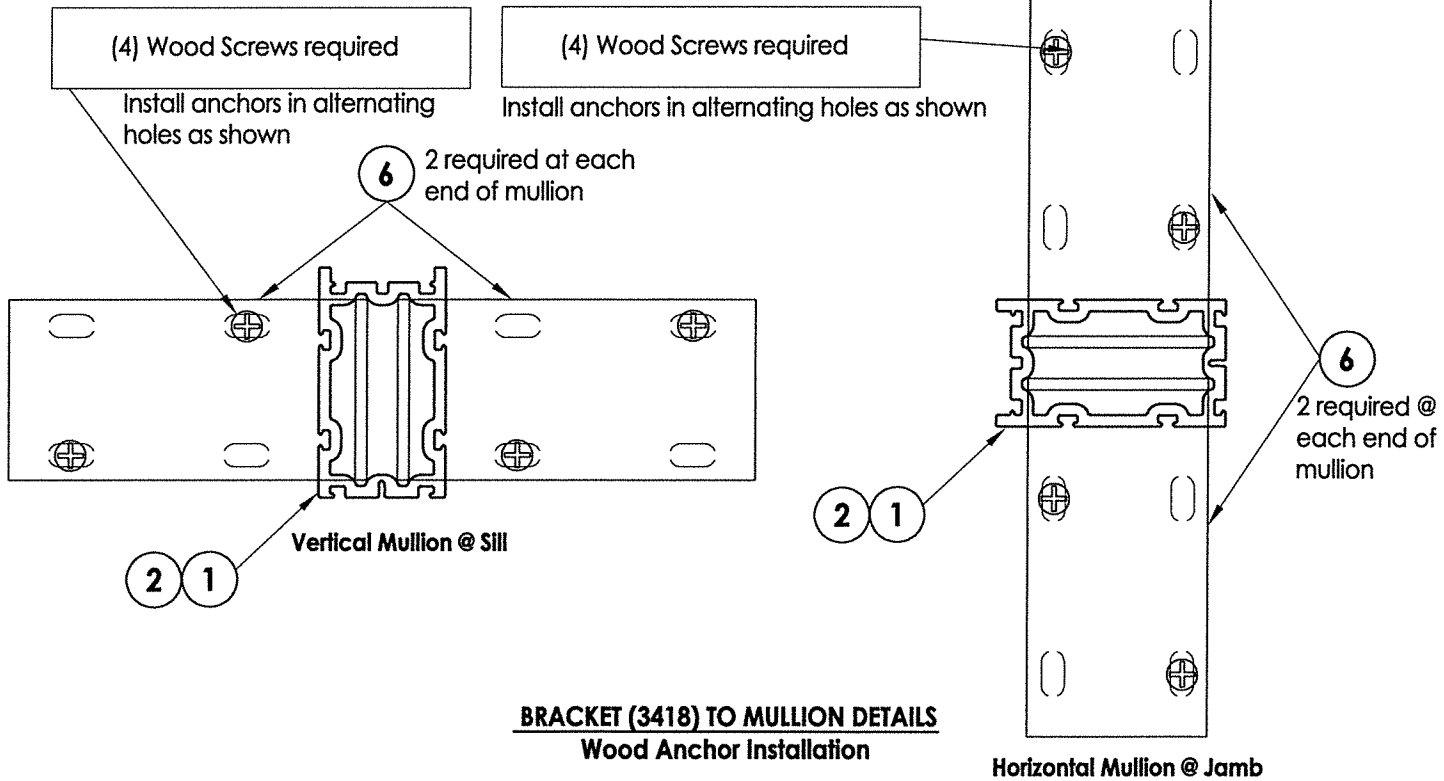
July 29, 2020

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairco, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



BRACKET (3419) TO MULLION DETAILS
Wood Anchor Installation



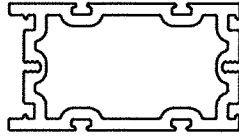
BRACKET (3418) TO MULLION DETAILS
Wood Anchor Installation

Notes:

1. Design pressure tables are applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheets 7 & 8 for cross section details.

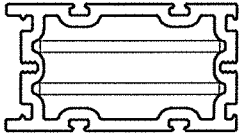
PRODUCT:		CLIPPED MULLION	
PART OR ASSEMBLY:		DESIGN PRESSURE TABLES (WOOD INSTALLATION)	
		LFS	JK
4	7/29/20	UPDATE TO 7TH ED. (2020) FBC	
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	
2	12/07/15	REVISED 4175 MULLION	
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	
NO.	DATE	REVISIONS	
DATE: 1/7/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15417.5			
SHEET 5 OF 9			

R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-15417 Windows - Mullions\C - Drawings\FL 15417 (2020) R\FL-15417.4-6.dwg, 6-5



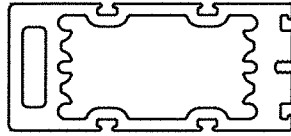
4100 MULLION

4100 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	59	45	38	33	29	25	23	22
	69"	67	51	43	37	32	29	26	25
	66"	76	59	49	42	37	33	30	28
	63"	80	68	57	49	43	38	34	33
	60"	80	78	66	56	50	44	40	38
	54"	80	80	80	78	68	61	55	52
	48"	80	80	80	80	80	80	78	74
	48"	80	80	80	80	80	80	78	74



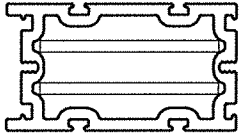
4150 MULLION
(ALUMINUM REINFORCED)

4150 MULLION (ALUMINUM REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	70	54	46	39	34	30	27	26
	69"	80	62	52	44	39	35	31	30
	66"	80	71	59	51	45	40	36	34
	63"	80	80	68	59	51	46	41	39
	60"	80	80	79	68	60	53	48	45
	54"	80	80	80	80	80	73	66	62
	48"	80	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80	80



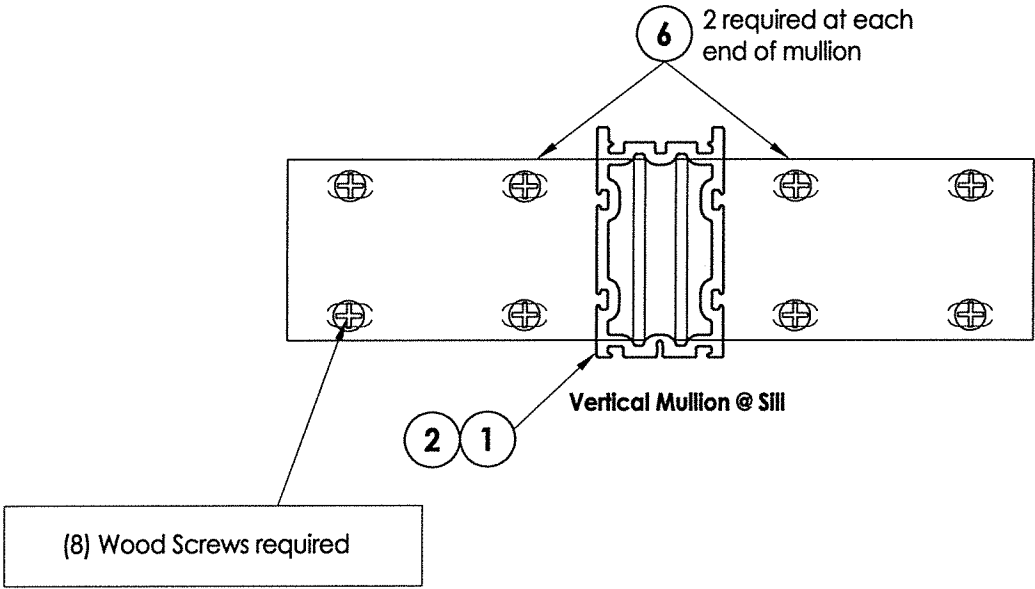
4175 MULLION

4175 MULLION		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	80	80	80	78	69	61	55	53
	69"	80	80	80	80	78	70	63	60
	66"	80	80	80	80	80	80	72	68
	63"	80	80	80	80	80	80	80	79
	60"	80	80	80	80	80	80	80	80
	54"	80	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80	80

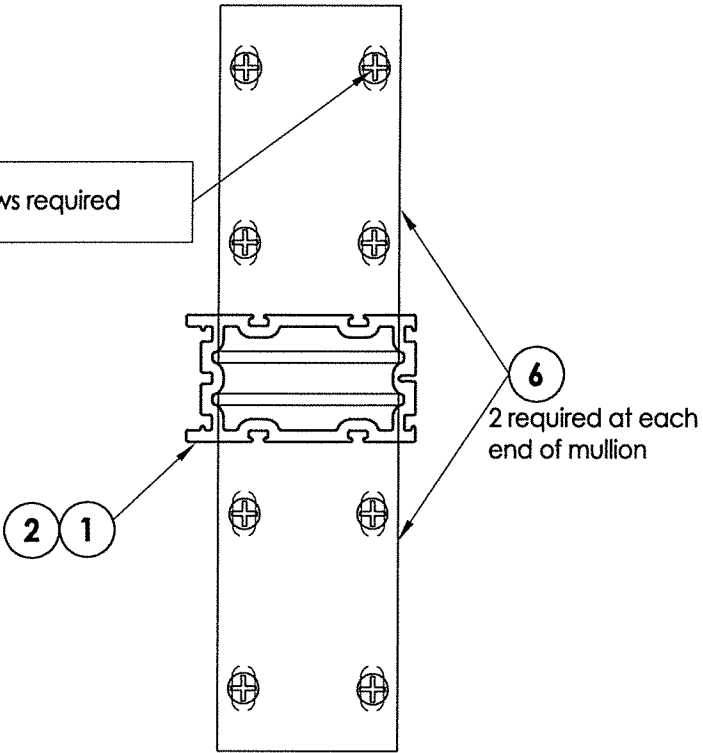


4160 MULLION
(STEEL REINFORCED)

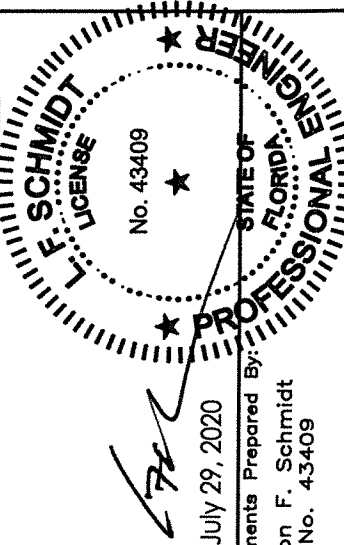
4160 MULLION (STEEL REINFORCED)		DESIGN PRESSURE (PSF)							
		MAX. OVERALL FRAME HEIGHT							
		48"	62"	74"	86"	98"	110"	122"	127.375"
MAX. HORIZONTAL MULLION SPAN	72"	80	73	61	52	46	41	37	35
	69"	80	80	69	59	52	46	42	40
	66"	80	80	79	68	60	53	48	46
	63"	80	80	80	78	68	61	55	52
	60"	80	80	80	80	79	71	64	61
	54"	80	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80	80



(8) Wood Screws required



Horizontal Mullion @ Jamb



July 29, 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

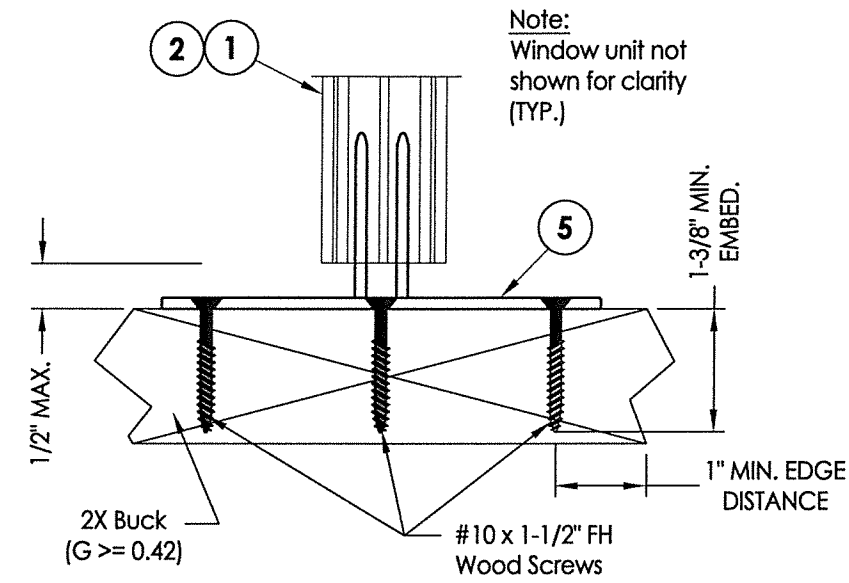
PRODUCT:		CLIPPED MULLION	
PART OR ASSEMBLY:		DESIGN PRESSURE TABLES (WOOD INSTALLATION)	
NO.	DATE	REVISIONS	BY
4	7/29/20	UPDATE TO 7TH ED. (2020) FBC	LFS
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
2	12/07/15	REVISED 4175 MULLION	LFS
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK
NO.	DATE	REVISIONS	BY
DATE: 1/7/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15417.5			
SHEET 6 OF 9			

Notes:

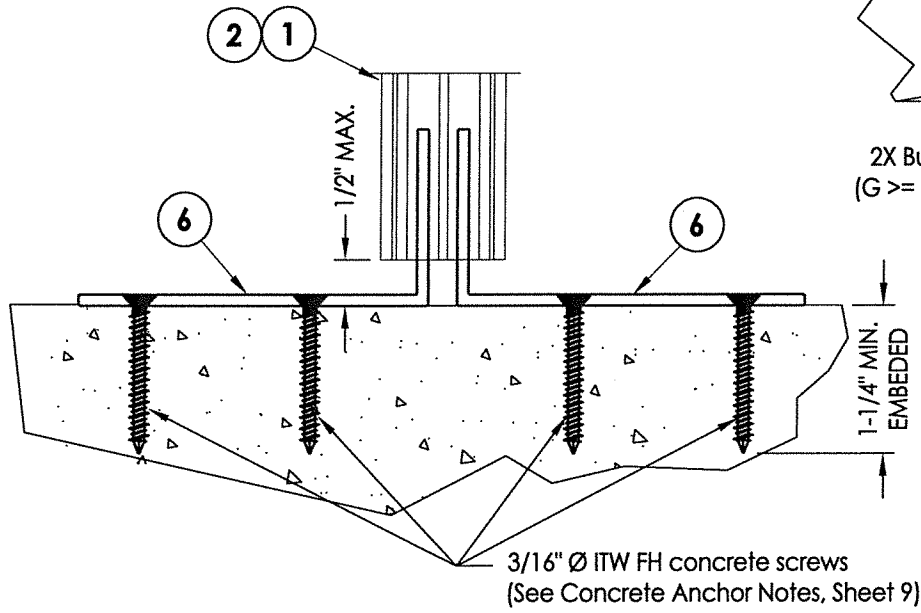
- Design pressure tables are applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheets 7 & 8 for cross section details.

BRACKET (3418) TO MULLION DETAILS
Wood Anchor Installation

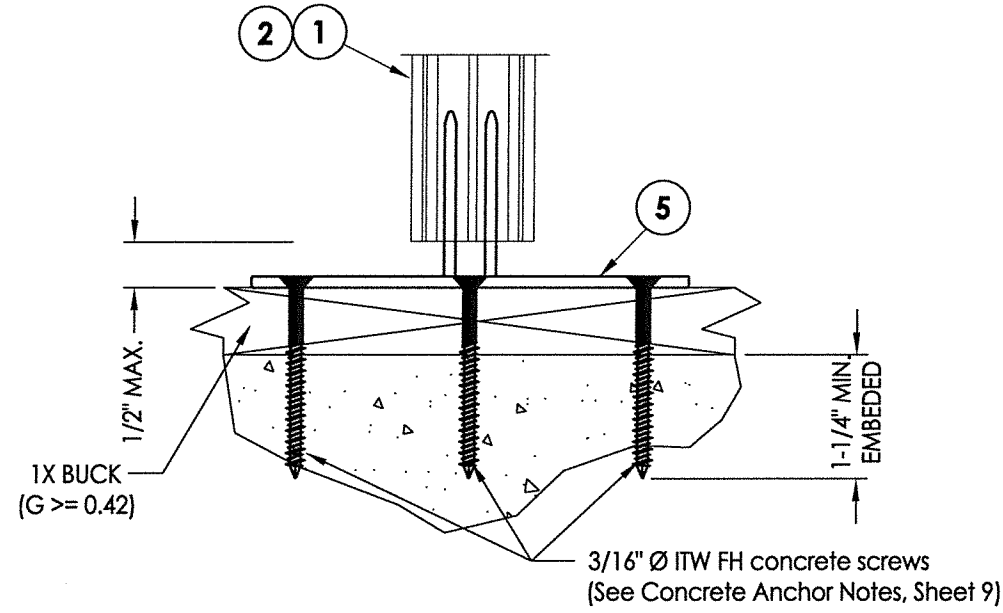
R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-15417 Windows - Mullions\C - Drawings\FL 15417 (2020) R7\FL-15417.4-6.dwg, 7-5



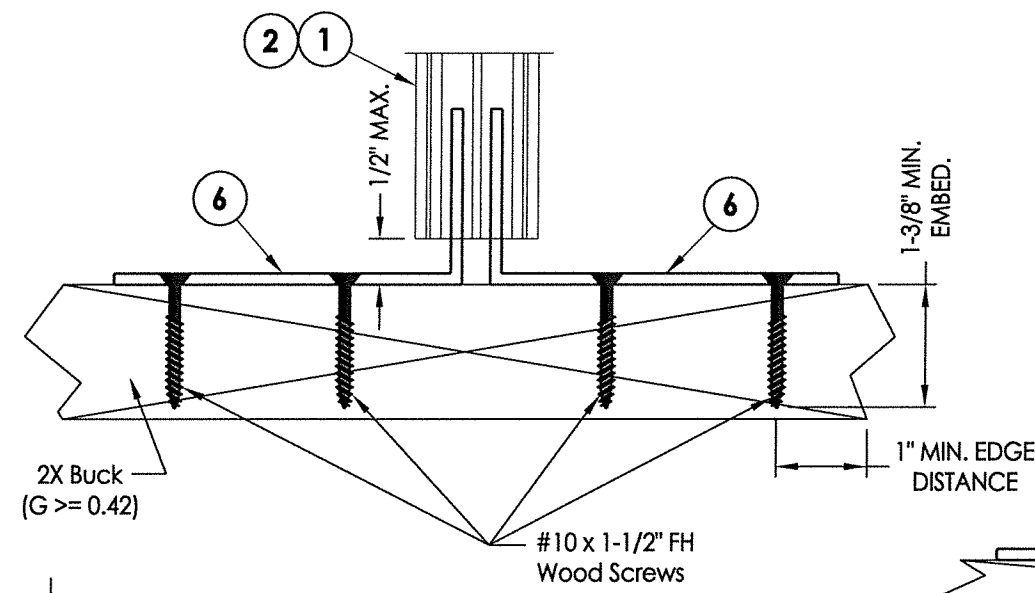
1 WOOD ANCHOR BRACKET DETAIL
7 Anchor to 2x Buck



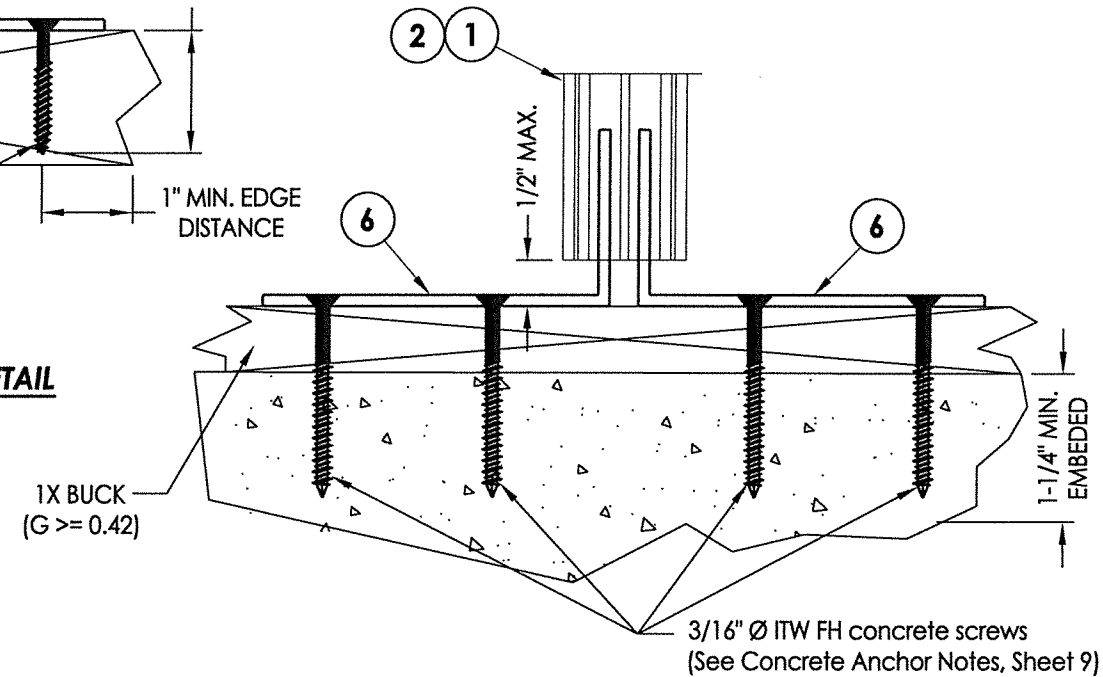
4 CONCRETE ANCHOR BRACKET DETAIL
7 Anchor Direct to Masonry



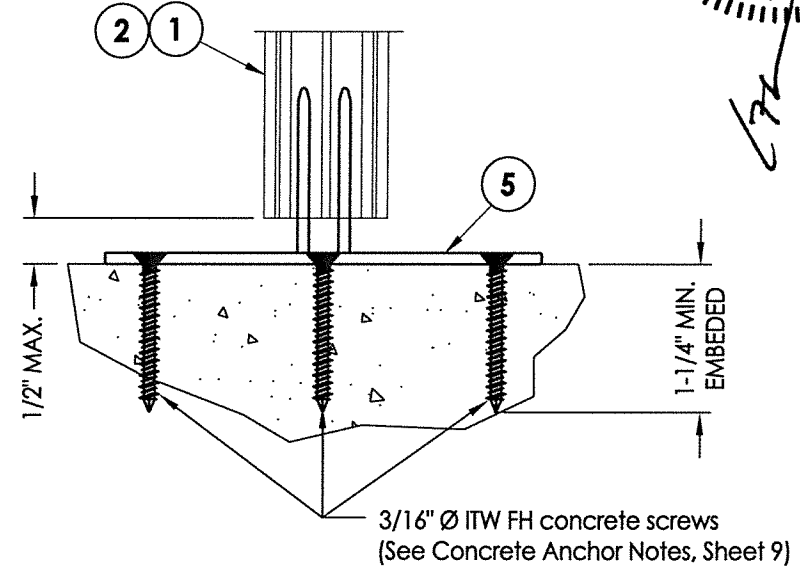
2 CONCRETE ANCHOR BRACKET DETAIL
7 Anchor to Masonry thru 1x Buck



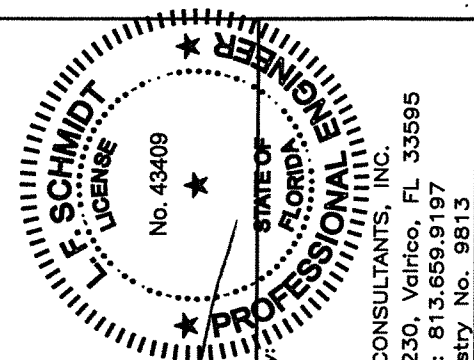
5 WOOD ANCHOR BRACKET DETAIL
7 Anchor to 2x Buck



6 CONCRETE ANCHOR BRACKET DETAIL
7 Anchor to Masonry thru 1x Buck



3 CONCRETE ANCHOR BRACKET DETAIL
7 Anchor Direct to Masonry



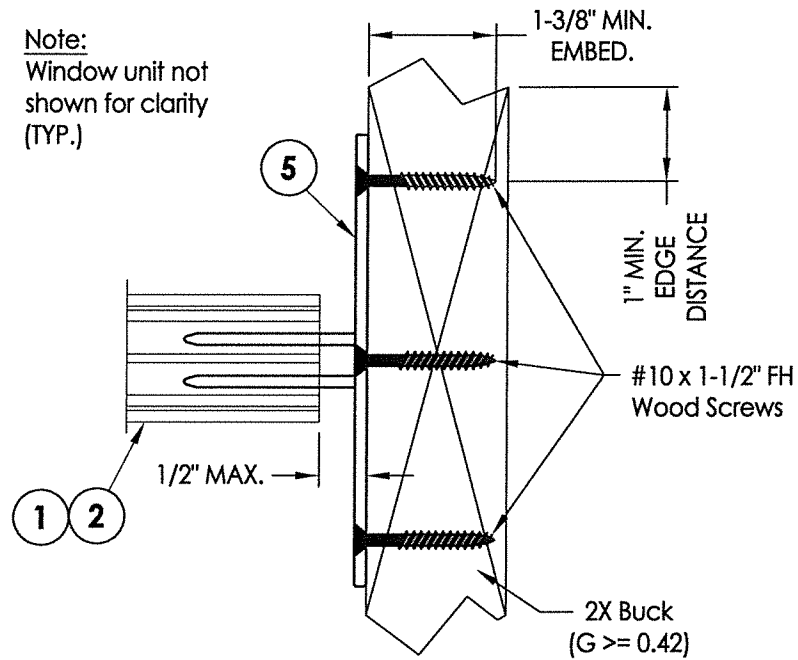
July 29, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		CLIPPED MULLION		PART OR ASSEMBLY:		ANCHOR BRACKET DETAILS (VERTICAL MULLION)	
NO.	DATE	REVISIONS	BY	DATE	BY	DATE	BY
4	7/29/20	UPDATE TO 7TH ED. (2020) FBC	LFS				
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK				
2	12/07/15	REVISED 4175 MULLION	LFS				
1	10/4/22/15	UPDATE TO 5TH ED. (2014) FBC	JK				

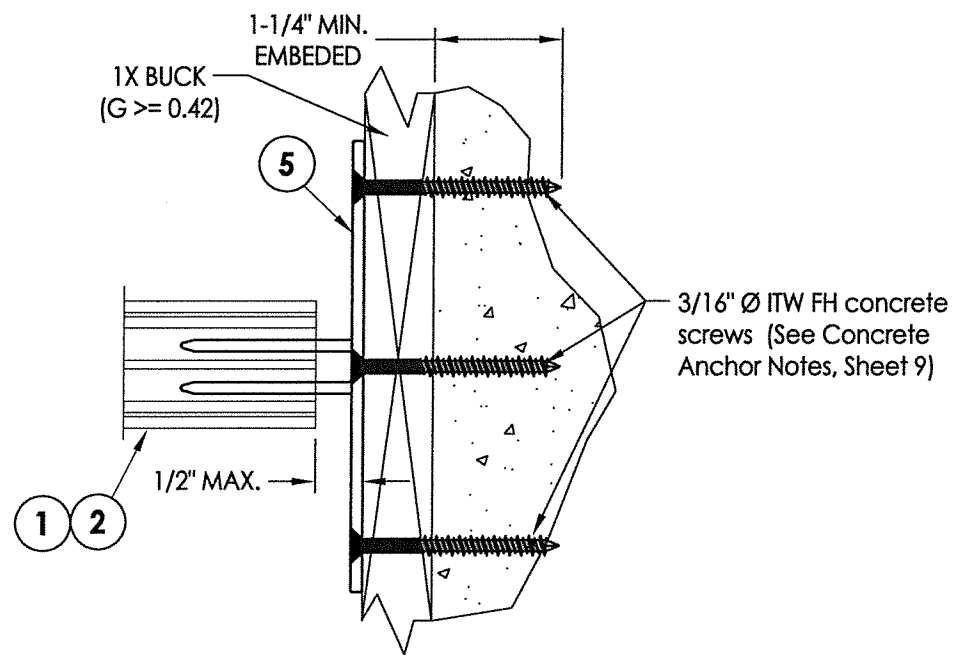
DATE: 1/7/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15417.5
SHEET 7 OF 9

R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-15417 Windows - Mullions\C - Drawings\FL 15417 (2020) R\FL-15417 4-6.dwg, 8-5

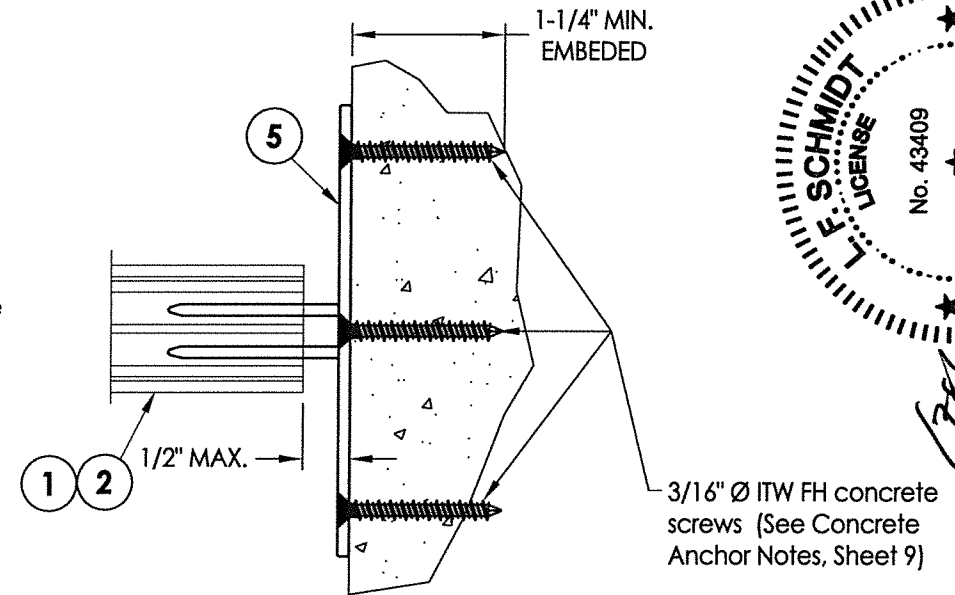
Note:
Window unit not
shown for clarity
(TYP.)



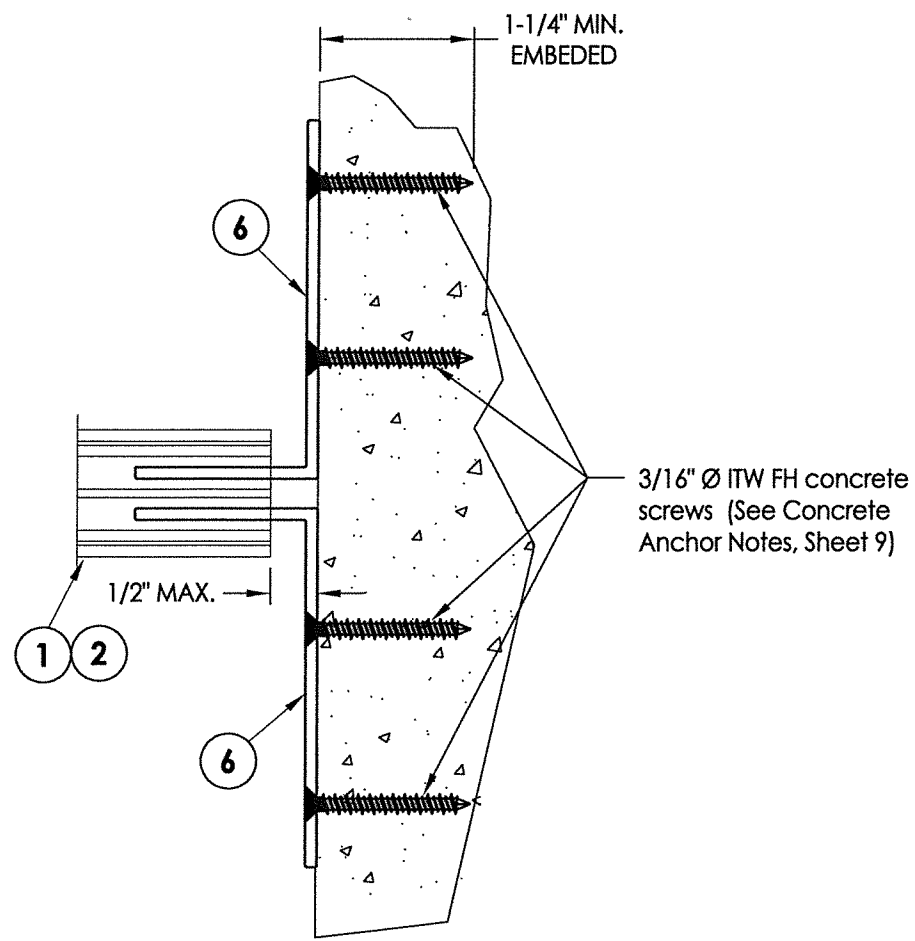
1
8 **WOOD ANCHOR BRACKET DETAIL**
Anchor to 2x Buck



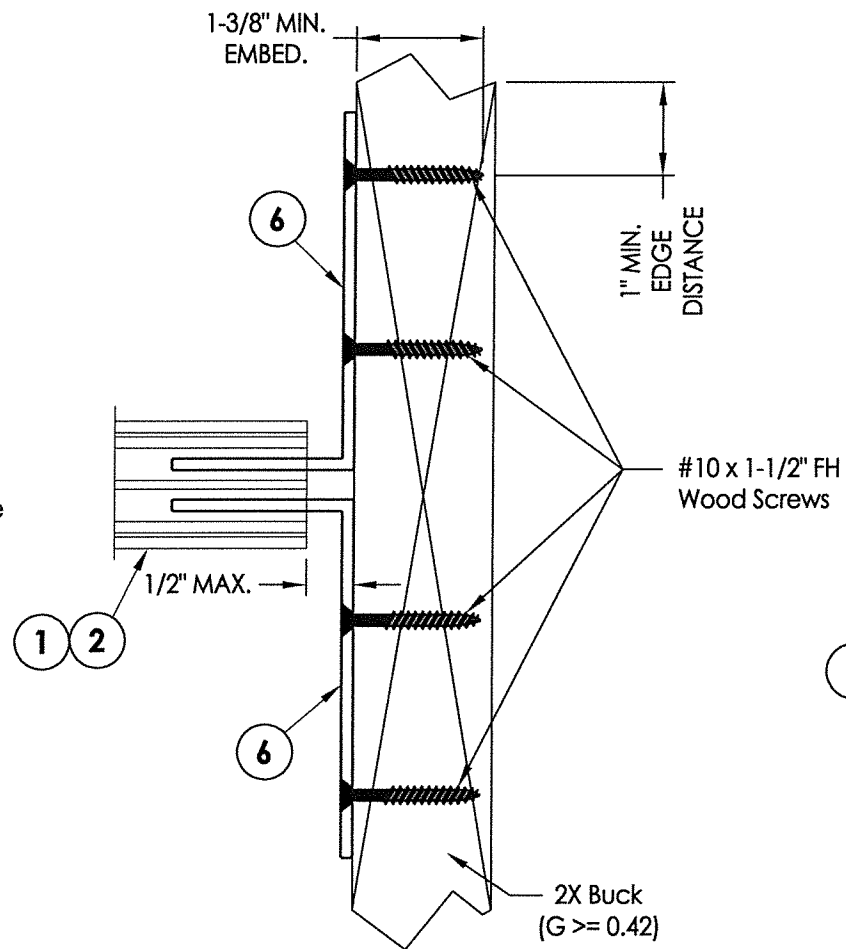
2
8 **CONCRETE ANCHOR BRACKET DETAIL**
Anchor to Masonry thru 1x Buck



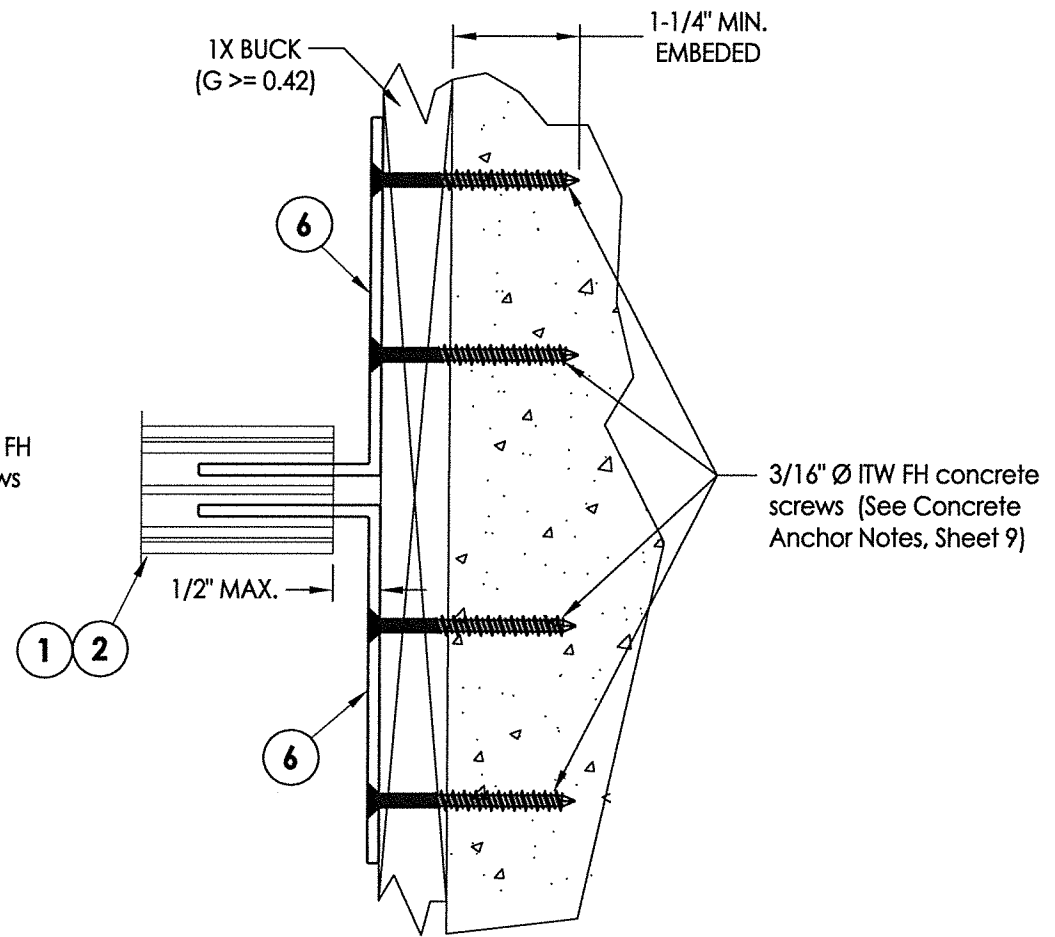
3
8 **CONCRETE ANCHOR BRACKET DETAIL**
Anchor Direct to Masonry



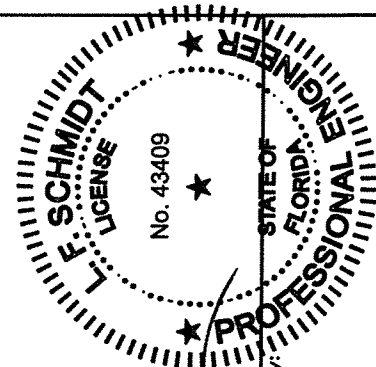
4
8 **CONCRETE ANCHOR BRACKET DETAIL**
Anchor Direct to Masonry



5
8 **WOOD ANCHOR BRACKET DETAIL**
Anchor to 2x Buck



6
8 **CONCRETE ANCHOR BRACKET DETAIL**
Anchor to 2x Buck



July 29, 2020

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 Registry No. 9813

PRODUCT:		CLIPPED MULLION		PART OR ASSEMBLY:		ANCHOR BRACKET DETAILS (HORIZONTAL MULLION)	
NO.	DATE	REVISIONS	BY	DATE	BY	DATE	BY
4	7/29/20	UPDATE TO 7TH ED (2020) FBC	LFS	JK	JK		
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	LFS	JK	JK		
2	12/07/15	REVISED 4175 MULLION	LFS	JK	JK		
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	LFS	JK	JK		

DATE: 1/7/13

SCALE: N.T.S.

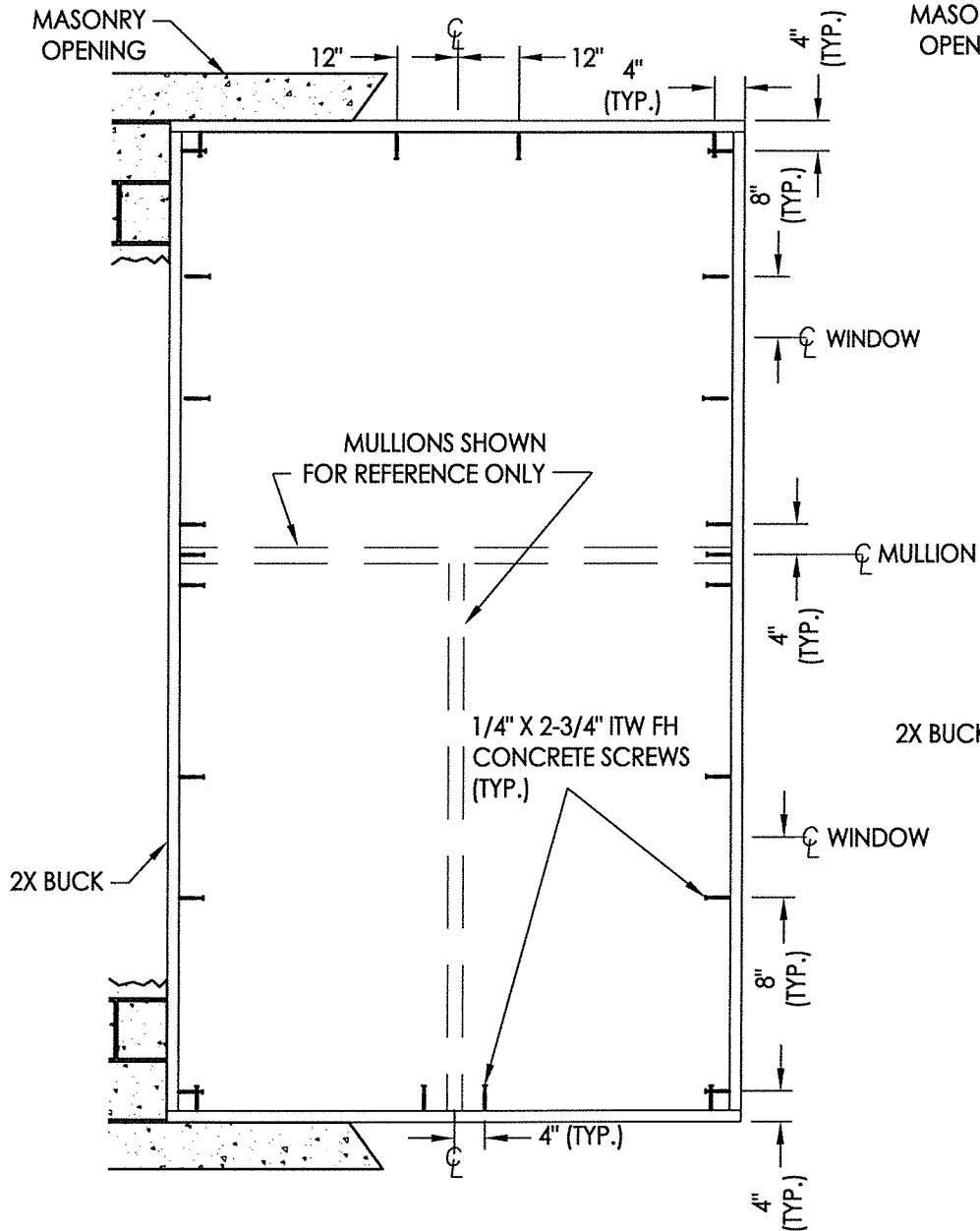
DWG. BY: JK

CHK. BY: LFS

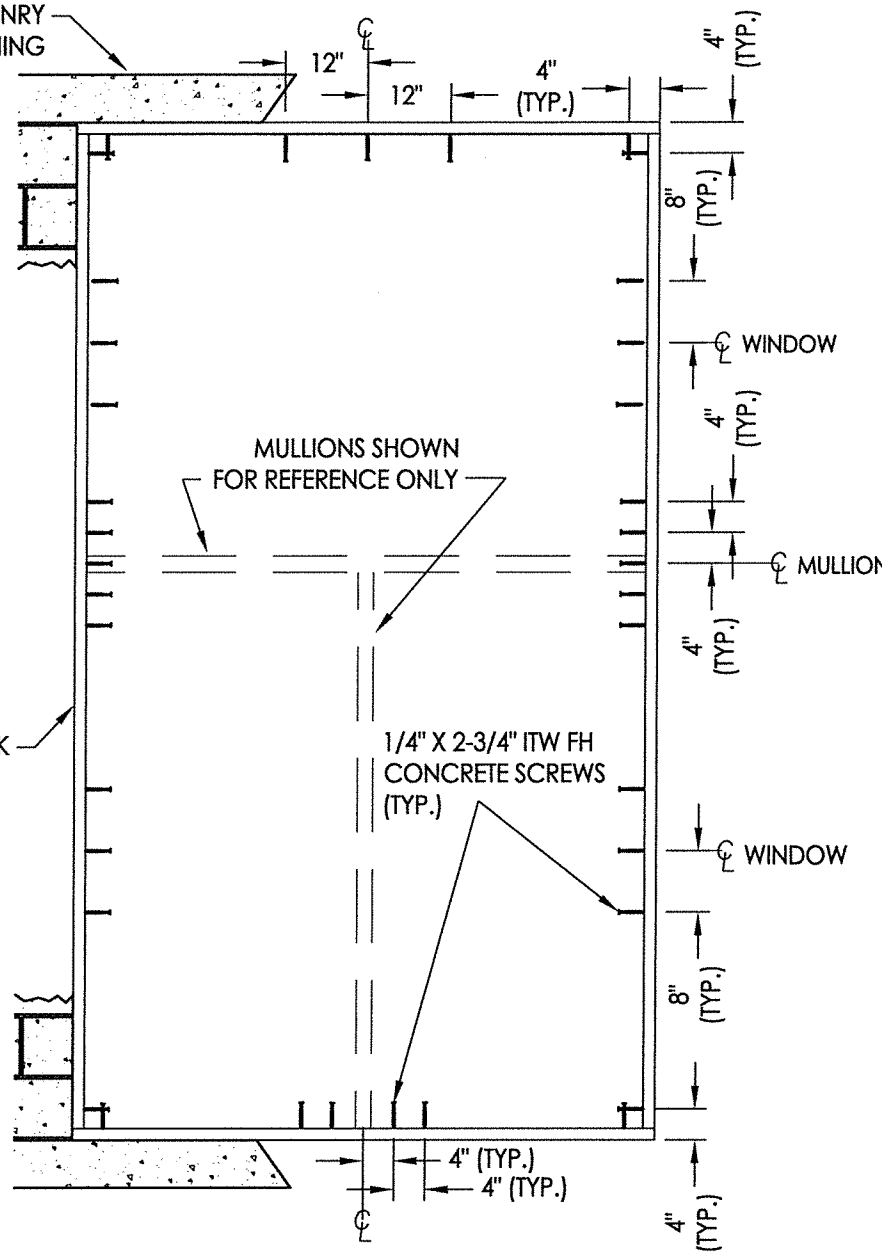
DRAWING NO.: FL-15417.5

SHEET 8 OF 9

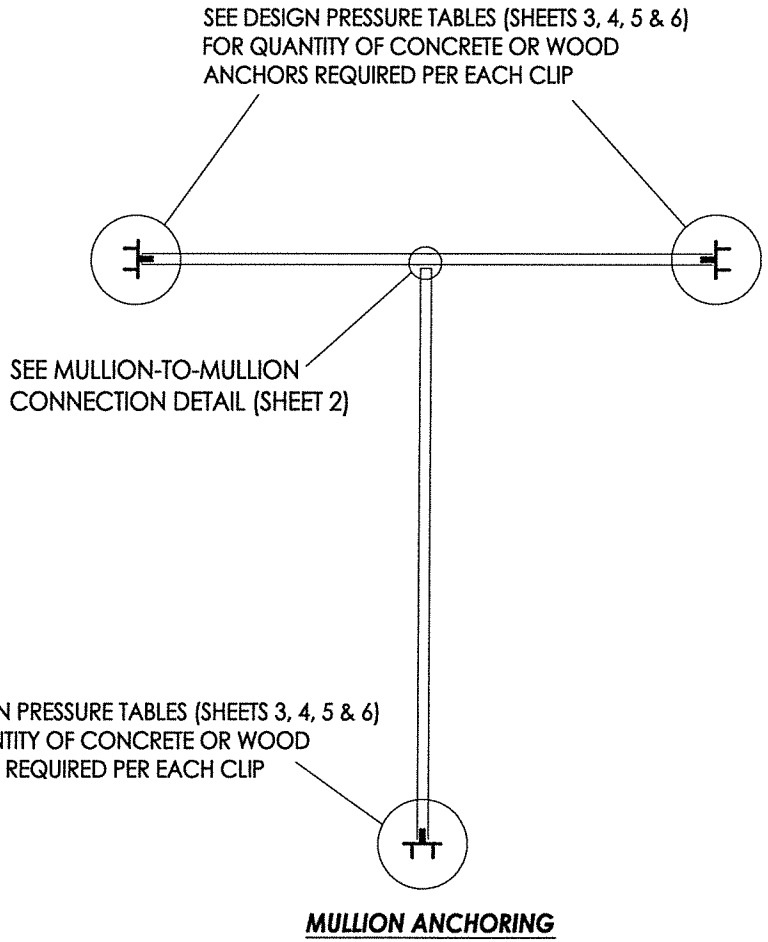
R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-15417 Windows - Mullions\A - Drawings\FL-15417 (2020) R\FL-15417 4-6.dwg, 9-5



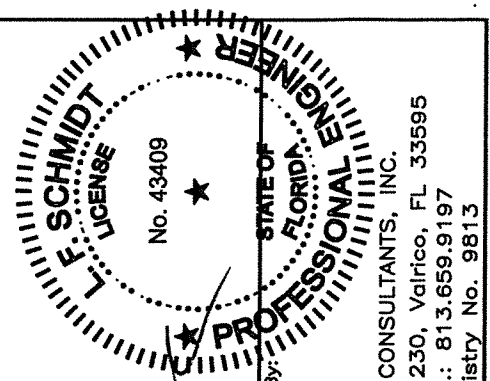
2X BUCK ANCHORING
45 PSF D.P. MAX.



2X BUCK ANCHORING
80 PSF D.P. MAX.



- CONCRETE ANCHOR NOTES:**
- Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
 - 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.
 - 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" | 1-7/8" |
| ITW TAPCON® | 1/4" | 1-1/4" | 2-1/2" | 3" |
- Concrete shall be 3,000 PSI conforming to ACI 301 or hollow block conforming to ASTM C90.



July 29, 2020
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 Registry No. 9813

PRODUCT:		CLIPPED MULLION	
		PART OR ASSEMBLY:	
		BUCK ANCHORING	
		REVISIONS	
NO.	DATE	DESCRIPTION	BY
4	7/29/20	UPDATE TO 7TH ED (2020) FBC	LFS
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
2	12/07/15	REVISED 4175 MULLION	LFS
1	04/22/15	UPDATE TO 5TH ED. (2014) FBC	JK
DATE:		1/7/13	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-15417.5	
SHEET		9 OF 9	