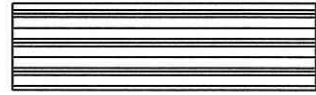




LVL WOOD MULLION



1" x 3.5" LVL WOOD MULLION

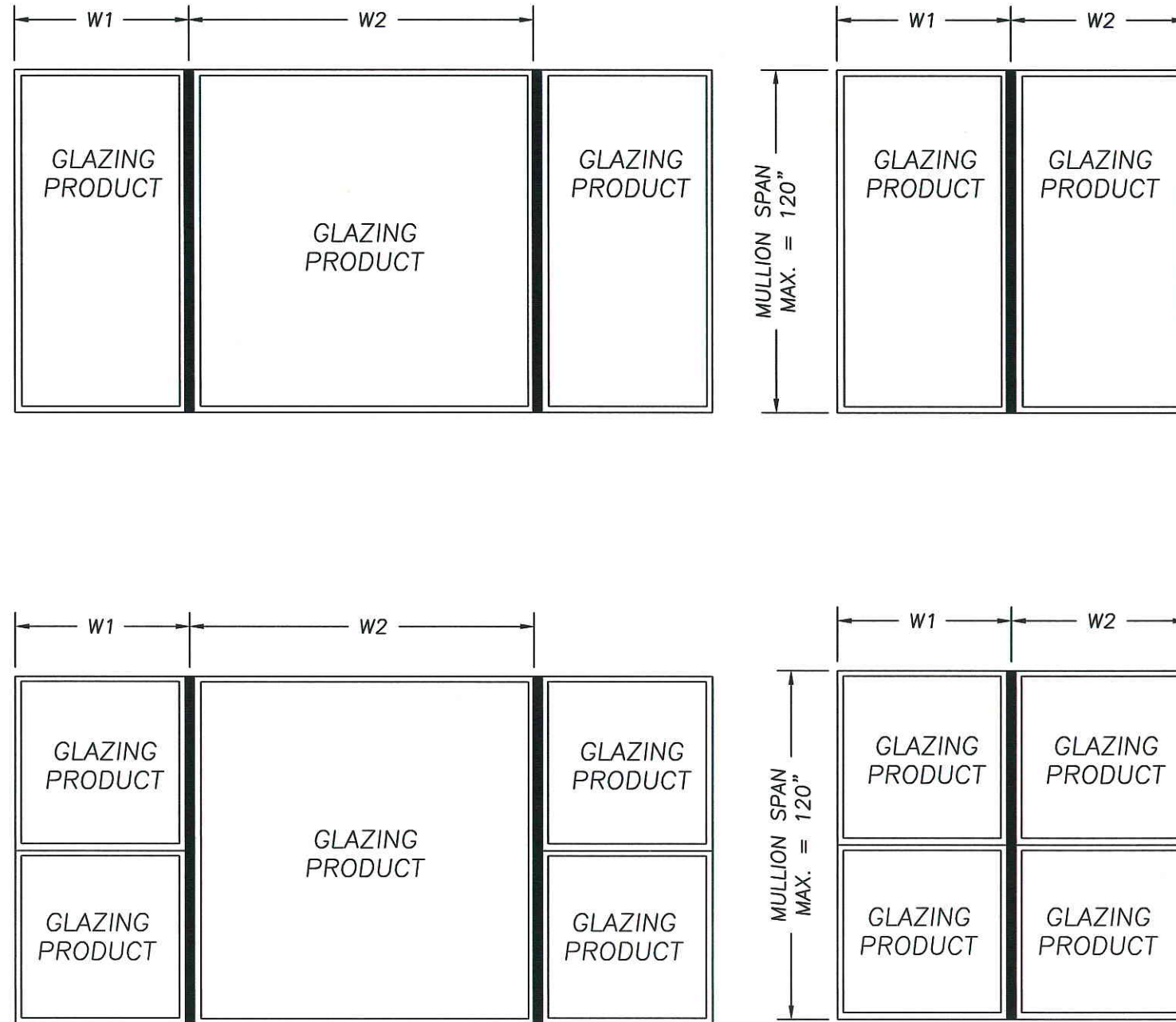
GENERAL NOTES:

- THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE".
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE AND BE REVIEWED BY THE BUILDING OFFICIAL.
- MULLION ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- SEPARATE PRODUCT APPROVALS FOR EACH GLAZING PRODUCT USED WITH THESE MULLIONS MUST BE SUBMITTED ALONG WITH THIS MULLION PRODUCT APPROVAL.
- ANCHORING OF EACH GLAZING PRODUCT TO THE MULLION SHALL BE AS SHOWN IN EACH INDIVIDUAL GLAZING PRODUCT APPROVAL.
- SITE CONDITIONS NOT COVERED IN THIS EVALUATION ARE SUBJECT TO SEPARATE ENGINEERING EVALUATION.
- MULLION DESIGN PRESSURE RATING, SEE LOAD RATING TABLES OF THIS DRAWING.
- 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.
- BOUNDING BOX DIMENSIONS FOR GEOMETRIC SHAPES MUST BE EQUAL TO OR LESS THAN THE RECTANGULAR DIMENSIONS SHOWN HEREIN.
- IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION, WIND ZONE 4 AS DEFINED IN ASTM E1996 IS EXCLUDED UNLESS THE ASSEMBLY IS PROTECTED WITH AN IMPACT RESISTANT COVERING THAT COMPLIES WITH SECITON 1609.1.2 OF THE FBC.

SUPPORTING DOCUMENTS & EVIDENCE

- THIS PRODUCT HAS BEEN ENGINEERED FOLLOWING ACCEPTED ENGINEERING PRACTICE CONFORMING TO THE REQUIREMENTS OF SECTION 1714.5.5 OF THE FLORIDA BUILDING CODE 2007 EDITION.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
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3	MULLION LOAD TABLE: CLIP B4 WOOD SCREW ANCHORS
4	MULLION LOAD TABLE: WOOD OR CONCRETE SCREW ANCHOR PLATE
5	ANCHOR PLATE DETAILS: ANCHOR CLIP B-4
6	ANCHOR PLATE DETAILS: MULLION ANCHORS PLATE



TYPICAL MULLION CONFIGURATIONS

Documents Prepared By:

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairco FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Hapey, P.E. No. 54158

PRODUCT:

STRUCTURAL MULLION

PART OR ASSEMBLY:

TYPICAL ELEVATIONS &
GENERAL NOTES

NO.	DATE	REV.	TO	WH	BY
1	9-9-08	REV. TO	2007 FBC		
REVISIONS					

DATE: 11/20/07

SCALE: NTS

DWG. BY: YV

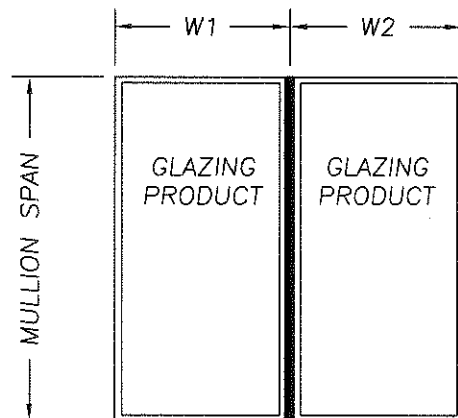
CHK. BY: WWH

DRAWING NO.:

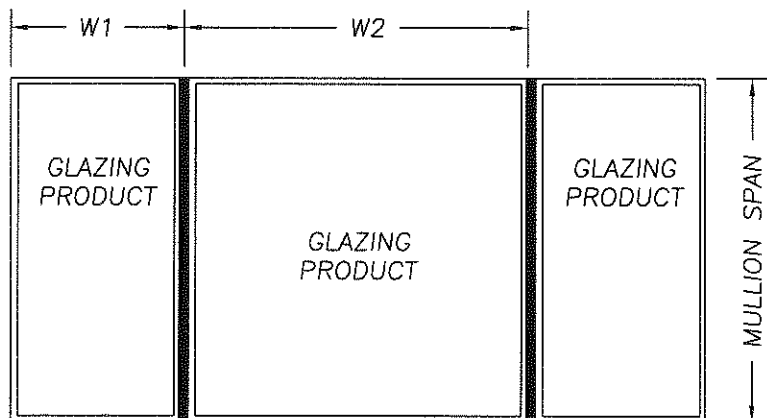
FL-8566.4

SHEET 1 OF 6

K:\A - Projects\Project Folders\Proj 1301-1400\PF 1324\ID. RWBC Drawings\FL-8566 R1\FL-8566.4\FL-8566.4-2.dwg, Model



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



CONCRETE SCREW	1" x 3.5" LVL STRUCTURAL BEAM MULLION LOAD TABLE (PSF) - ANCHOR CLIP B4													
	TRIBUTARY WIDTH													
	24.0"	28.0"	30.0"	32.0"	34.0"	36.0"	38.0"	40.0"	42.0"	44.0"	46.0"	48.0"	50.0"	
120.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
116.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
112.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
108.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
104.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
100.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
96.0"	15.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
92.0"	17.36	15.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
88.0"	19.90	17.29	16.25	15.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	
84.0"	22.97	19.97	18.77	17.73	16.81	15.99	15.26	NA	NA	NA	NA	NA	NA	
80.0"	26.70	23.23	21.85	20.64	19.58	18.63	17.79	17.03	16.35	15.71	15.12	NA	NA	
76.0"	31.29	27.25	25.64	24.23	22.99	21.89	20.91	20.03	19.21	18.46	17.76	17.12	16.52	
72.0"	37.00	32.25	30.36	28.70	27.25	25.96	24.80	23.74	22.77	21.87	21.04	20.27	19.56	
68.0"	44.18	38.55	36.31	34.35	32.63	31.09	29.69	28.41	27.24	26.15	25.16	24.23	23.37	
64.0"	53.34	46.61	43.93	41.59	39.51	37.63	35.92	34.35	32.92	31.61	30.39	29.27	28.22	
60.0"	65.24	57.08	53.84	50.97	48.40	46.08	43.96	42.04	40.27	38.65	37.15	35.77	34.48	
56.0"	80.94	70.95	66.92	63.33	60.10	57.19	54.54	52.13	49.93	47.90	46.03	44.30	42.70	
52.0"	102.14	89.62	84.48	79.90	75.79	72.08	68.72	65.66	62.85	60.28	57.91	55.72	53.69	
48.0"	125.67	113.10	107.71	101.68	95.70	90.38	85.63	81.35	77.47	73.95	70.73	67.79	65.08	
44.0"	141.01	126.55	120.37	114.77	109.67	105.01	100.72	96.77	92.20	88.01	84.18	80.67	77.45	
40.0"	150.00	142.86	135.72	129.26	123.38	118.02	113.10	108.58	104.40	100.53	96.94	93.60	90.48	
36.0"	150.00	150.00	150.00	147.12	140.28	134.04	128.34	123.10	118.27	113.81	109.67	105.82	102.24	
32.0"	150.00	150.00	150.00	150.00	150.00	150.00	147.52	141.38	135.72	130.50	125.67	121.18	117.00	
28.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	146.33	141.01	136.06	
24.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	
20.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	

INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE:

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.

Documents Prepared By: **RW** BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

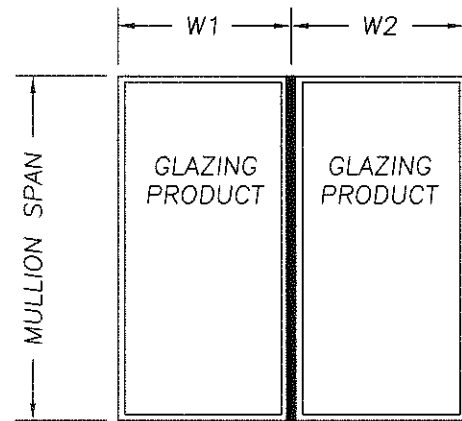
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Haney, P.E. No. 54158

PRODUCT: STRUCTURAL MULLION
PART OR ASSEMBLY: MULL. LOAD TABLE: CLIP B4
CONCRETE SCREW ANCHORS

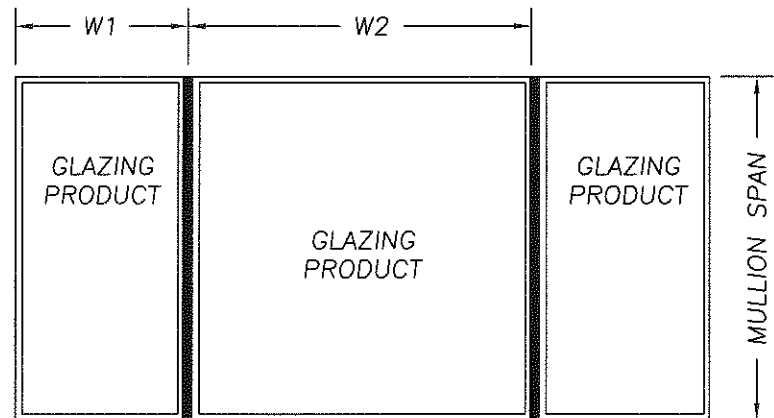
NO.	DATE	REV.	TO	BY
1	9-9-08	REV. TO	2007 FBC	WH
				BY

DATE: 11/20/07
SCALE: NTS
DWG. BY: YV
CHK. BY: WWH
DRAWING NO.: FL-8566.4
SHEET 2 OF 6

K:\A - Projects\Project Folders\PROJ 1301-1400\PT 1324\U. RWBC Drawings\FL-8566 K1\FL-8566.4\F-8566.4-3.dwg, MODEL



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



WOOD SCREW	1" x 3.5" LVL STRUCTURAL BEAM MULLION LOAD TABLE (PSF) - ANCHOR CLIP B4													
	TRIBUTARY WIDTH													
	24.0"	28.0"	30.0"	32.0"	34.0"	36.0"	38.0"	40.0"	42.0"	44.0"	46.0"	48.0"	50.0"	
120.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
116.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
112.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
108.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
104.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
100.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
96.0"	15.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
92.0"	17.36	15.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
88.0"	19.90	17.29	16.25	15.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	
84.0"	22.97	19.97	18.77	17.73	16.81	15.99	15.26	NA	NA	NA	NA	NA	NA	
80.0"	26.70	23.23	21.85	20.64	19.58	18.63	17.79	17.03	16.35	15.71	15.12	NA	NA	
76.0"	31.29	27.25	25.64	24.23	22.99	21.89	20.91	20.03	19.21	18.46	17.76	17.12	16.52	
72.0"	37.00	32.25	30.36	28.70	27.25	25.96	24.80	23.74	22.77	21.87	21.04	20.27	19.56	
68.0"	44.18	38.55	36.31	34.35	32.63	31.09	29.69	28.41	27.24	26.15	25.16	24.23	23.37	
64.0"	53.34	46.61	43.93	41.59	39.51	37.63	35.92	34.35	32.92	31.61	30.39	29.27	28.22	
60.0"	65.24	57.08	53.84	50.97	48.40	46.08	43.96	42.04	40.27	38.65	37.15	35.77	34.48	
56.0"	80.94	70.95	66.92	63.33	60.10	57.19	54.54	52.13	49.93	47.90	46.03	44.30	42.70	
52.0"	102.14	89.62	84.48	79.90	75.79	72.08	68.72	65.66	62.85	60.28	57.91	55.72	53.69	
48.0"	125.67	113.10	107.71	101.68	95.70	90.38	85.63	81.35	77.47	73.95	70.73	67.79	65.08	
44.0"	141.01	126.55	120.37	114.77	109.67	105.01	100.72	96.77	92.20	88.01	84.18	80.67	77.45	
40.0"	150.00	142.86	135.72	129.26	123.38	118.02	113.10	108.58	104.40	100.53	96.94	93.60	90.48	
36.0"	150.00	150.00	150.00	147.12	140.28	134.04	128.34	123.10	118.27	113.81	109.67	105.82	102.24	
32.0"	150.00	150.00	150.00	150.00	150.00	150.00	147.52	141.38	135.72	130.50	125.67	121.18	117.00	
28.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	146.33	141.01	136.06	
24.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	
20.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	

- INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE:**
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.

Documents Prepared By: **RW BUILDING CONSULTANTS, INC.**
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

Florida Board of Professional Engineers
Certificate Of Authorization/No. 9813
Wendell W. Haney P.E. 9-9-08
Wendell W. Haney P.E. /No. 54158

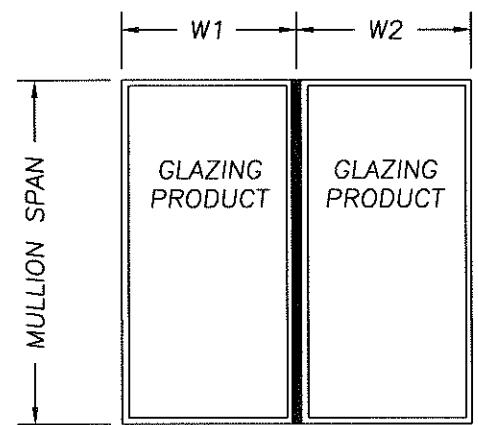
PRODUCT: STRUCTURAL MULLION
PART OR ASSEMBLY: MULL. LOAD TABLE: CLIP B4 WOOD SCREW ANCHORS

NO.	DATE	WH	BY
1	9-9-08	REV. TO 2007 FBC	

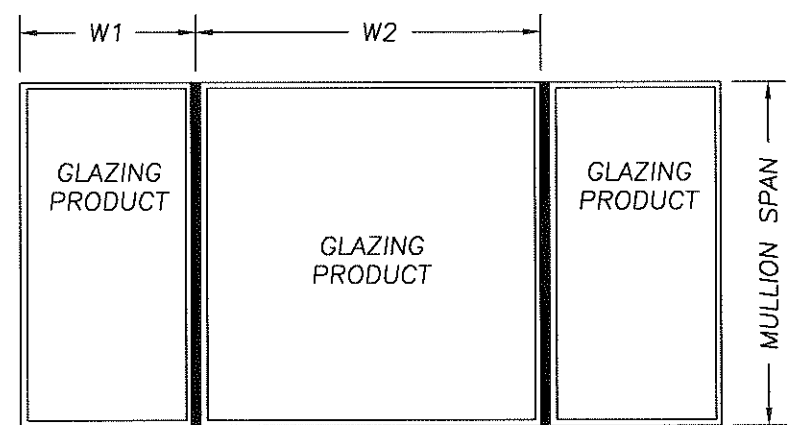
REVISIONS

DATE: 11/20/07
SCALE: NTS
DWG. BY: YV
CHK. BY: WWH
DRAWING NO.: FL-8566.4
SHEET 3 OF 6

R:\A - Projects\Project Folders\Proj 1301-1400\PF 1324\D. RWBC Drawings\FL-8566 R1\FL-8566.4\FL-8566.4-4.dwg, Model



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



WOOD OR CONCRETE SCREW	1" x 3.5" LVL STRUCTURAL BEAM MULLION LOAD TABLE (PSF) - ANCHOR PLATE													
	TRIBUTARY WIDTH													
	24.0"	28.0"	30.0"	32.0"	34.0"	36.0"	38.0"	40.0"	42.0"	44.0"	46.0"	48.0"	50.0"	
MULLION SPAN	120.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
116.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
112.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
108.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
104.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
100.0"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
96.0"	15.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
92.0"	17.36	15.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
88.0"	19.90	17.29	16.25	15.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
84.0"	22.97	19.97	18.77	17.73	16.81	15.99	15.26	NA	NA	NA	NA	NA	NA	NA
80.0"	26.70	23.23	21.85	20.64	19.58	18.63	17.79	17.03	16.35	15.71	15.12	NA	NA	NA
76.0"	31.29	27.25	25.64	24.23	22.99	21.89	20.91	20.03	19.21	18.46	17.76	17.12	16.52	NA
72.0"	37.00	32.25	30.36	28.70	27.25	25.96	24.80	23.74	22.77	21.87	21.04	20.27	19.56	NA
68.0"	44.18	38.55	36.31	34.35	32.63	31.09	29.69	28.41	27.24	26.15	25.16	24.23	23.37	NA
64.0"	52.62	46.61	43.93	41.59	39.51	37.63	35.92	34.35	32.92	31.61	30.39	29.27	28.22	NA
60.0"	57.00	50.98	48.64	46.57	44.67	42.92	41.30	39.80	38.40	37.10	35.88	34.74	33.67	NA
56.0"	62.18	55.84	53.30	50.98	48.86	46.90	45.10	43.43	41.88	40.43	39.09	37.82	36.64	NA
52.0"	68.40	61.60	58.73	56.12	53.73	51.54	49.52	47.65	45.92	44.31	42.81	41.40	40.09	NA
48.0"	76.00	68.40	65.14	62.18	59.48	57.00	54.72	52.62	50.67	48.86	47.17	45.60	44.13	NA
44.0"	85.28	76.53	72.80	69.41	66.33	63.50	60.91	58.52	56.32	54.27	52.36	50.59	48.93	NA
40.0"	96.56	86.40	82.08	78.17	74.62	71.37	68.40	65.66	63.14	60.80	58.63	56.61	54.72	NA
36.0"	110.55	98.59	93.54	88.98	84.84	81.07	77.62	74.45	71.53	68.83	66.33	64.00	61.83	NA
32.0"	128.25	114.00	108.00	102.60	97.71	93.27	89.22	85.50	82.08	78.92	76.00	73.29	70.76	NA
28.0"	150.00	134.01	126.76	120.26	114.40	109.08	104.23	99.79	95.72	91.97	88.50	85.28	82.29	NA
24.0"	150.00	150.00	150.00	144.00	136.80	130.29	124.36	118.96	114.00	109.44	105.23	101.33	97.71	NA
20.0"	150.00	150.00	150.00	150.00	150.00	150.00	150.00	145.92	139.71	134.01	128.75	123.89	119.39	NA

INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE:

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.

Documents Prepared By: **RW** BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Haney 9-9-08
Wendell W. Haney, P.E. No. 54158

PRODUCT: STRUCTURAL MULLION

PART OR ASSEMBLY: MULLION LOAD TABLE: WOOD OR CONCRETE SCREW ANCHOR PLATE

NO.	DATE	REV.	BY
1	9-9-08	REV. TO 2007 FBC	WH

REVISIONS

DATE: 11/20/07

SCALE: NTS

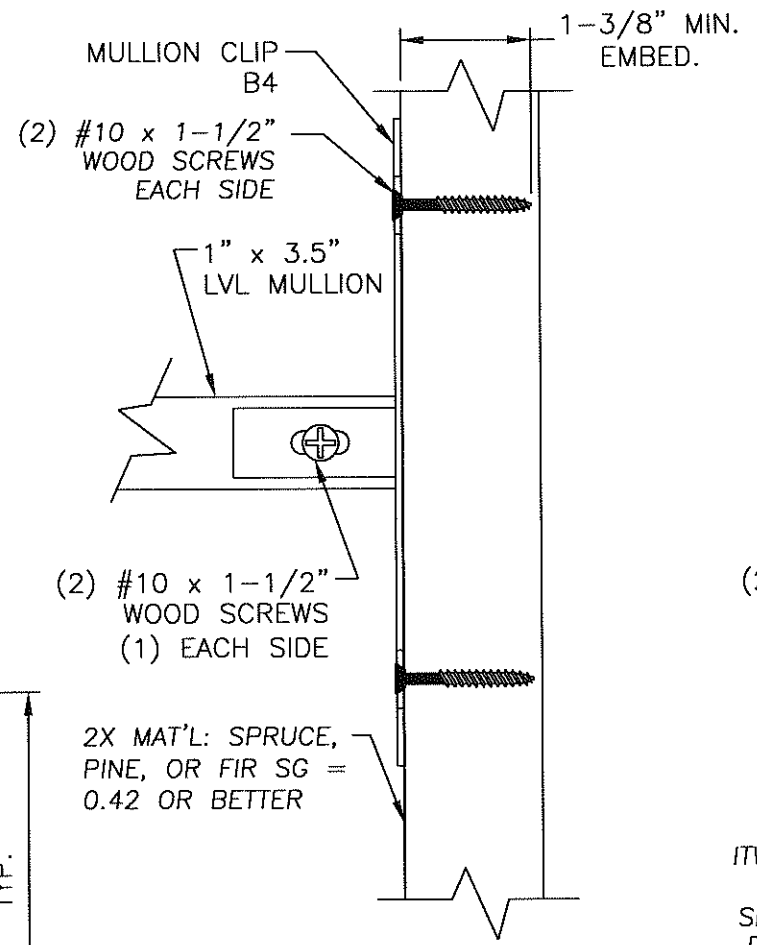
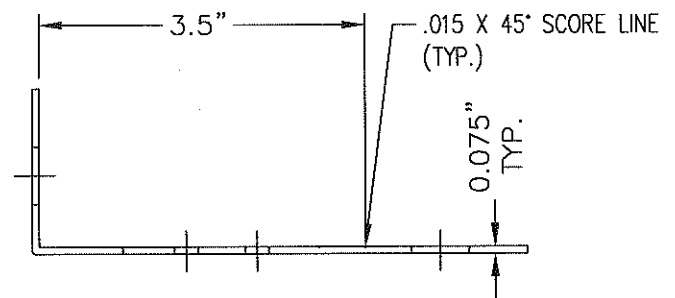
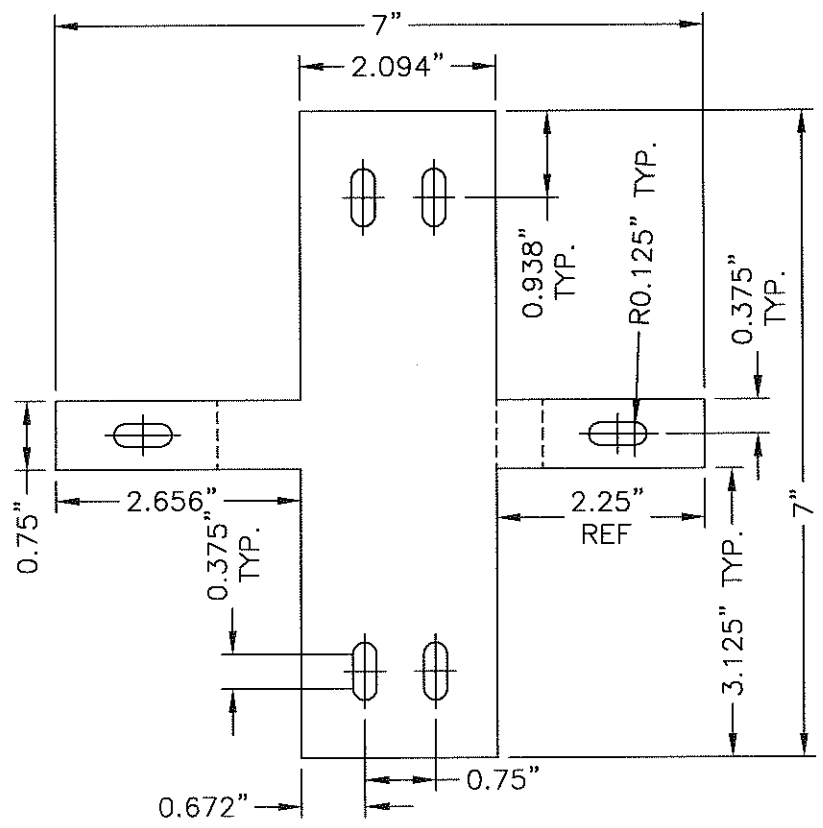
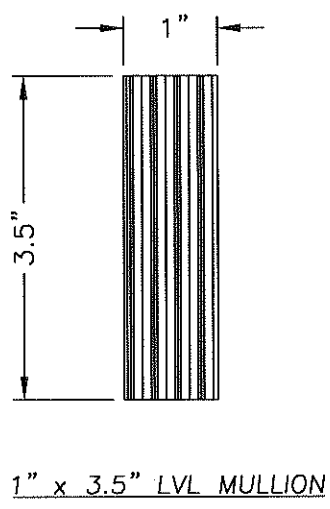
DWG. BY: YV

CHK. BY: WWH

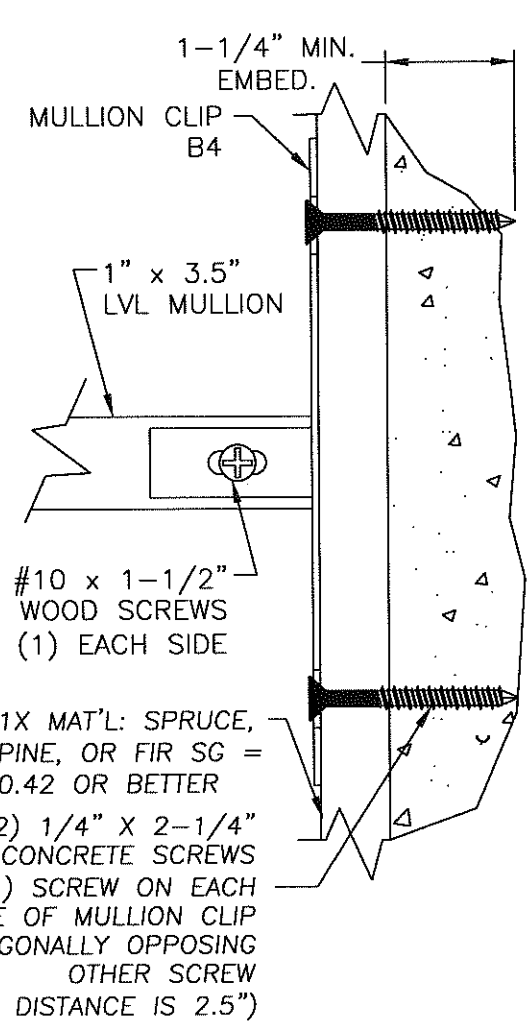
DRAWING NO.: FL-8566.4

SHEET 4 OF 6

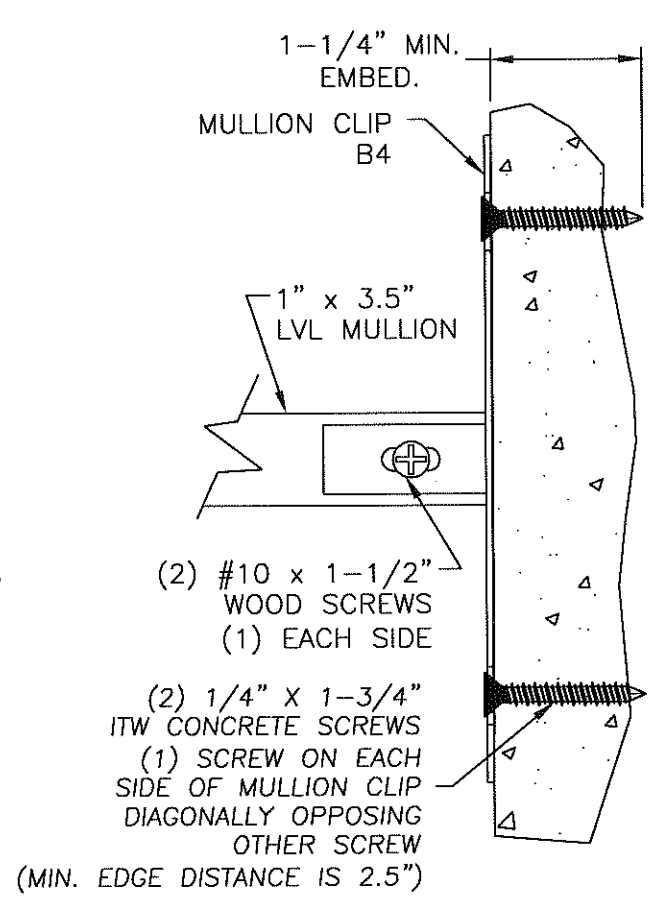
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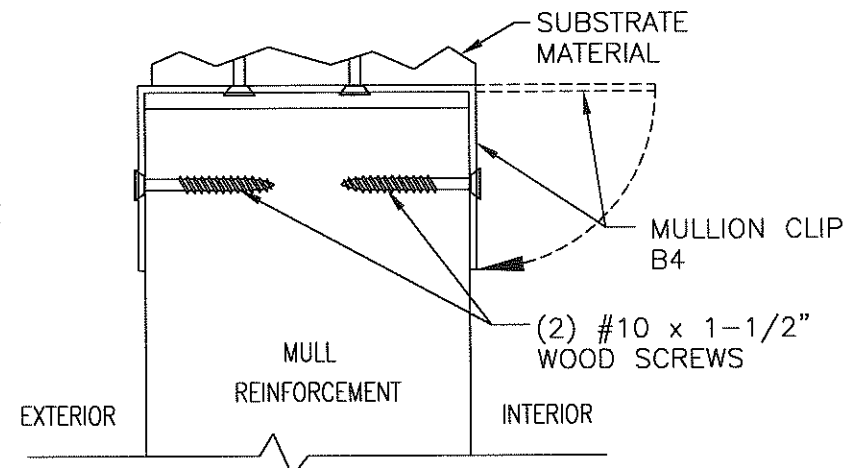
ANCHOR TO 2X



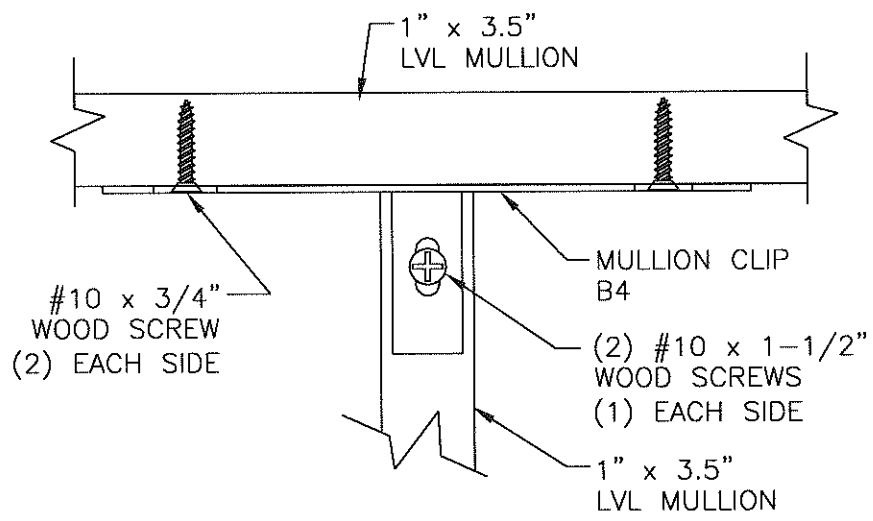
ANCHOR THROUGH 1X BUCK
USING 1/4" X 2-1/4" ITW CONCRETE SCREWS



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



INSTALLATION PROCEDURE
SEE 2X, 1X TO MASONRY & MASONRY ANCHORING ABOVE

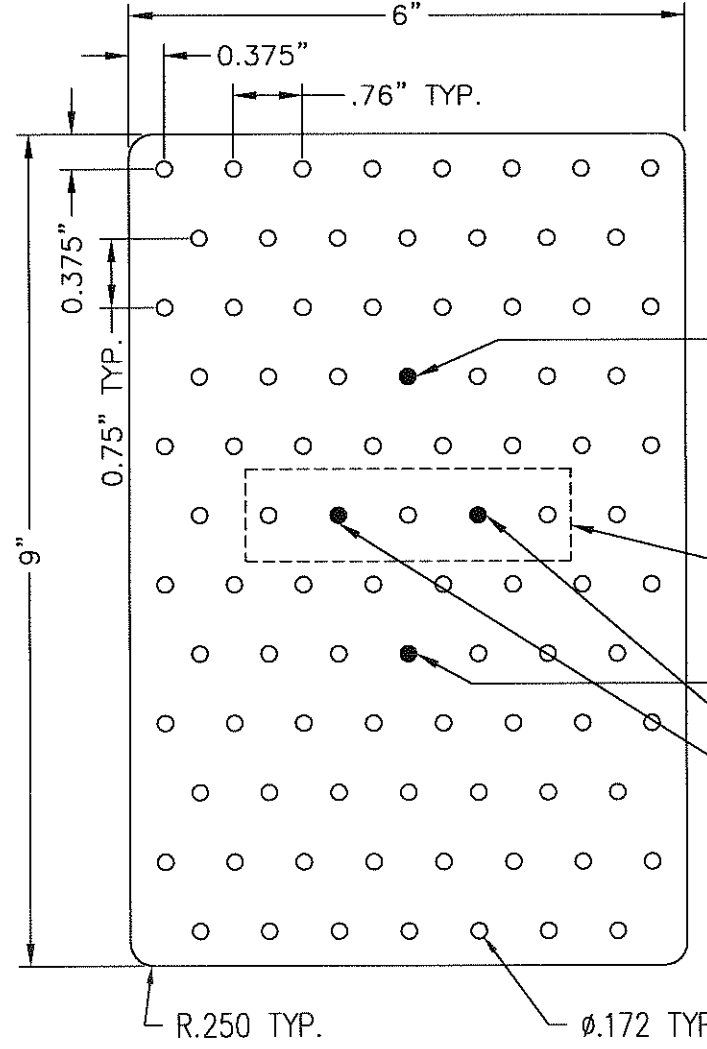
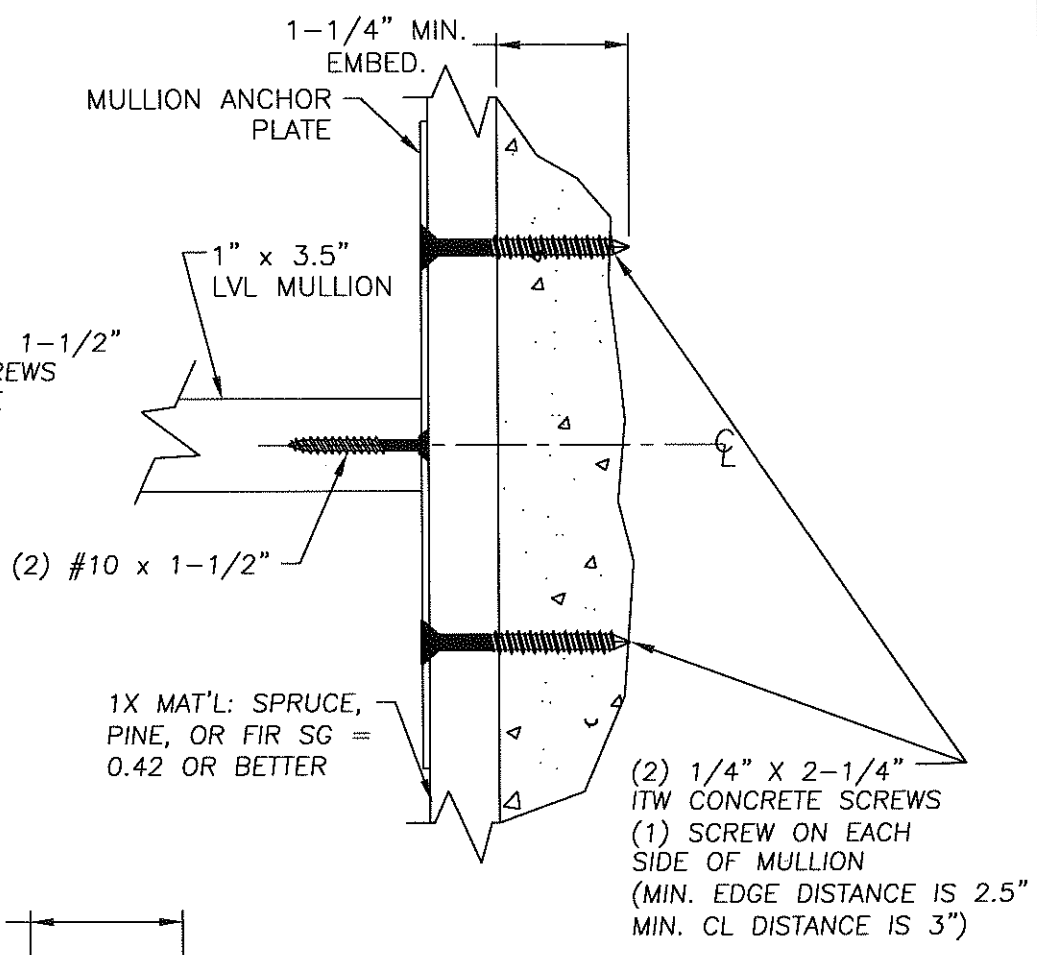
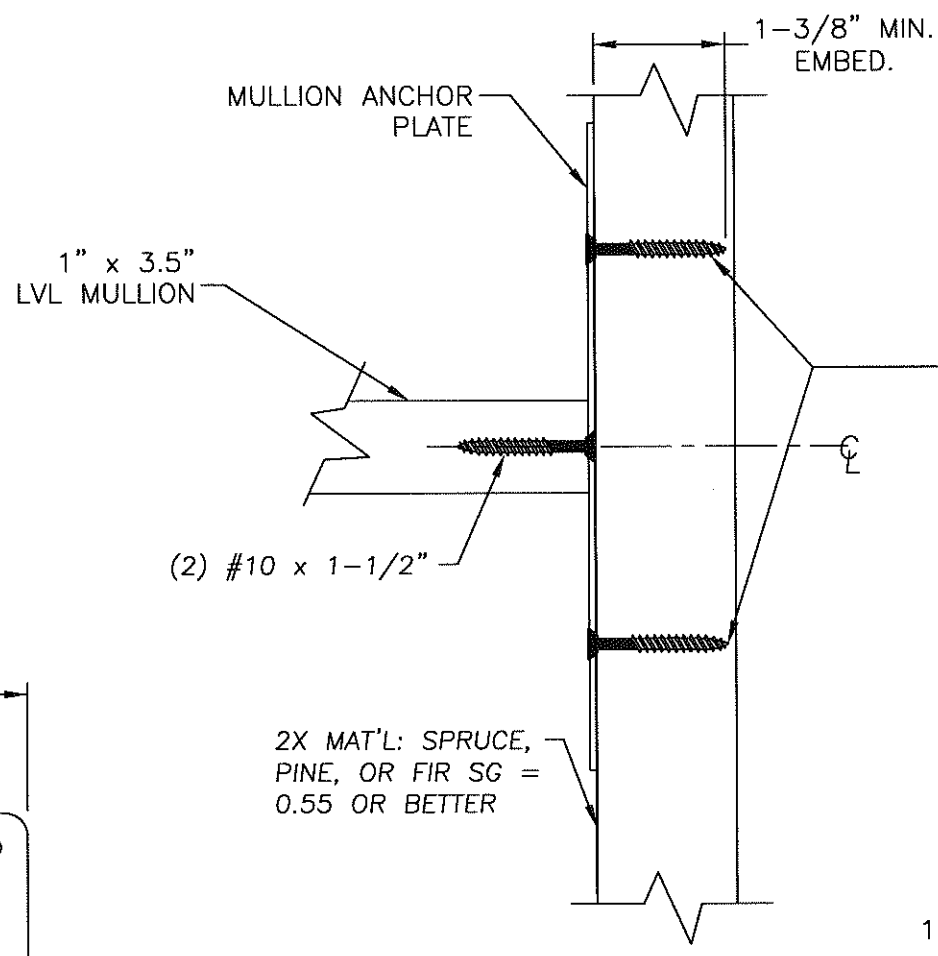
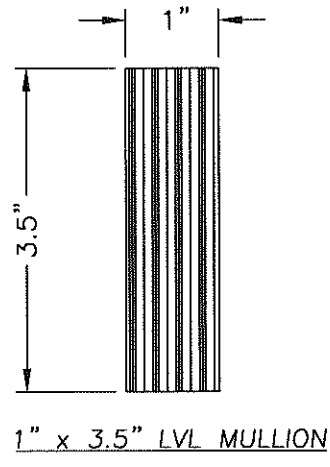


MULLION TO MULLION ANCHORING

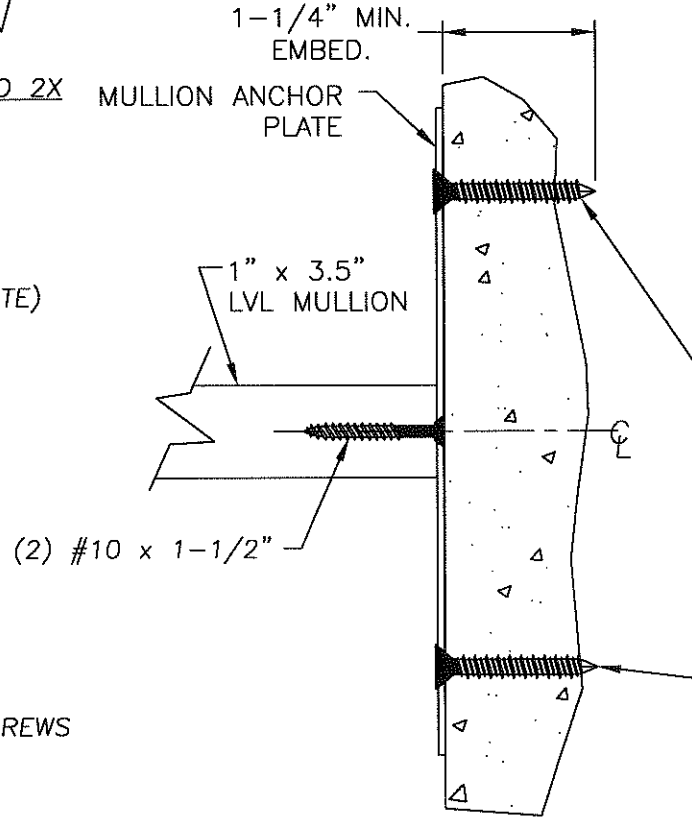
Documents Prepared By: **RW** BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Wendell W. Honeys 9-9-08
Wendell W. Honeys P.E. #54158

PRODUCT:	STRUCTURAL MULLION						
PART OR ASSEMBLY:	ANCHOR PLATE DETAILS: ANCHOR CLIP B4						
NO.	DATE	REV.	TO THE	2007	FBC	WH	BY
1	9-9-08						
REVISIONS							
DATE: 11/20/07							
SCALE: NTS							
DWG. BY: YV							
CHG. BY: WWH							
DRAWING NO.: FL-8566.4							
SHEET 5 OF 6							

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MULLION ANCHOR PLATE
STAINLESS STEEL



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

(2) 1/4" X 2-1/4" ITW CONCRETE SCREWS (1) SCREW ON EACH SIDE OF MULLION (MIN. EDGE DISTANCE IS 2.5", MIN. CL DISTANCE IS 3")

Documents Prepared By:		RW BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197	
PRODUCT:		STRUCTURAL MULLION	
PART OR ASSEMBLY:		ANCHOR PLATE DETAILS: MULLION ANCHORS PLATE	
NO.	DATE	WH	BY
1	9-9-08	REV. TO THE 2007 FBC	
REVISIONS			
DATE: 11/20/07			
SCALE: NTS			
DWG. BY: YV			
CHG. BY: WWH			
DRAWING NO.: FL-8566.4			
SHEET 6 OF 6			

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