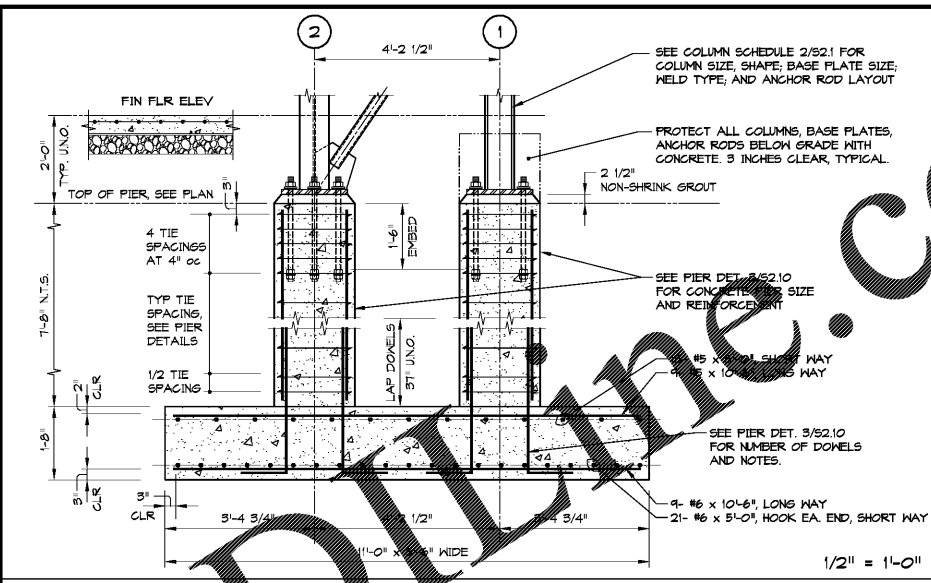
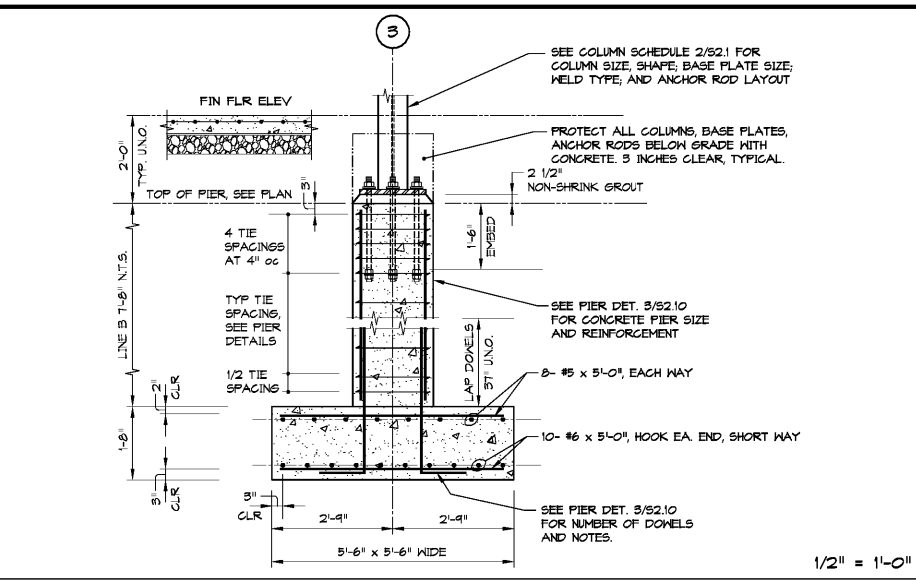


**COLUMN SCHEDULE FOUNDATION SECTION & DETAILS**

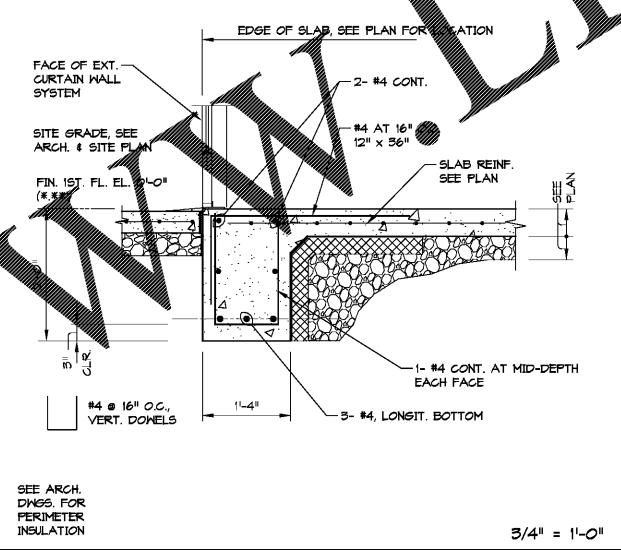
**CLEMMONS FIRST BAPTIST CHURCH NARTHEX ADDITION**



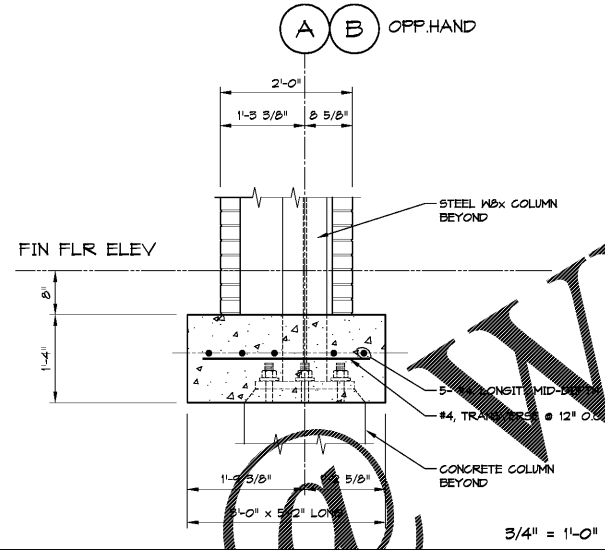
**1 COMBINED FOOTING DETAIL ALONG LINES A, B**



**6 COMBINED FOOTING DETAIL GRID LINES A-3, B-3**

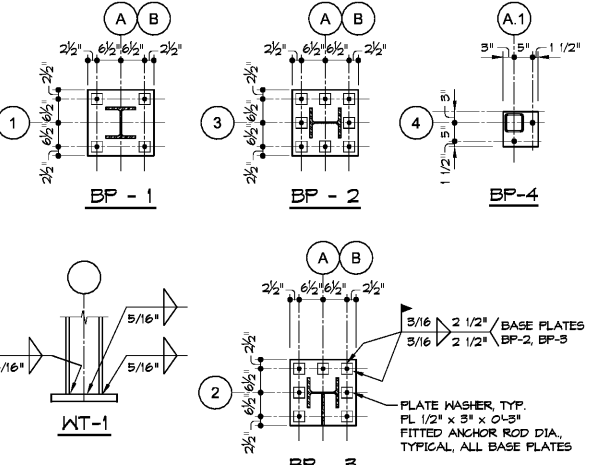


**4 SECTION AT ENTRY, THICKENED FLOOR SLAB**

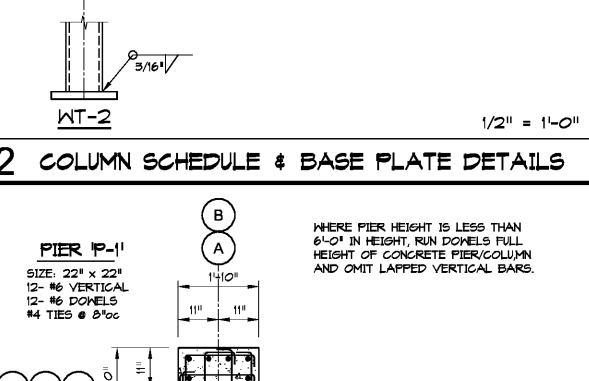


**7 FOOTING AT ENTRY**

MARK	SECTION	BASE PLATE, ASTM A36, GRADE 36 KSI		ANCHOR RODS ASTM F1554 GRADE 36	
		TYPE	WELD		SIZE
C-1	W8 x 55	BP-1	WT-1	FL 1 3/8" x 18" x 1'-6"	4 - 1 1/8"
C-2	W8 x 48	BP-2	WT-1	FL 1 3/8" x 18" x 1'-6"	8 - 1 1/8"
C-3	W8 x 48	BP-3	WT-1	FL 1 3/8" x 18" x 1'-6"	7 - 1 1/8"
C-4	HSS 8 x 5 x 1/4	BP-4	WT-2	FL 1/2" x 9 1/2" x 0'-9 1/2"	2 - 3/4" EB



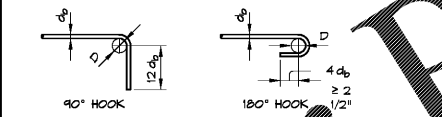
**2 COLUMN SCHEDULE & BASE PLATE DETAILS**



**3 CONCRETE PIER PLAN DETAIL**

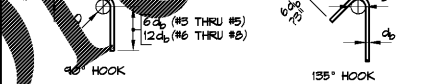
**STANDARD HOOKS, PRIMARY REINFORCEMENT**

BAR	Min. Finished D
#3 thru #8	6 d <sub>b</sub>
#9, #10, #11	8 d <sub>b</sub>
#14, #18	10 d <sub>b</sub>



**STANDARD HOOKS, STIRRUPS, REINFORCEMENT**

BAR	Finished D
#3 thru #5	6 d <sub>b</sub>
#6 thru #8	6 d <sub>b</sub>



**l<sub>dh</sub> Tension Development Length (embedment)**  
 For Standard End Hooks (Grade 60 Bars - Normal Height Concrete - General Use)

BAR SIZE	f <sub>c</sub> = (Normal Height Concrete), psi			
	3,000	4,000	5,000	6,000
#3	7.1	6.4	6.0	
#4	9.5	8.5	7.7	
#5	11.9	10.6	9.7	
#6	14.2	12.7	11.6	
#7	16.6	14.8	13.6	
#8	19.0	17.0	15.5	
#9	21.4	19.1	17.5	
#10	24.1	21.6	19.7	
#11	26.8	23.9	21.8	

**l<sub>d</sub> Tension Development Length (embedment)**  
 For Beam, Slab and Wall Reinforcing (Grade 60 Bars - Normal Height Concrete - General Use)

BAR SIZE	f <sub>c</sub> = (Normal Height Concrete), psi					
	3,000		4,000		5,000	
	TOP	BOTT	TOP	BOTT	TOP	BOTT
#3	21.4	16.4	18.5	14.2	16.5	12.7
#4	28.5	21.9	24.7	19.0	22.1	17.0
#5	35.6	27.4	30.8	23.7	27.6	21.2
#6	42.7	32.9	37.0	28.5	33.1	25.5
#7	62.3	47.9	54.0	41.5	48.3	37.1
#8	71.2	54.8	61.7	47.4	55.2	42.4
#9	80.3	61.8	69.6	53.3	62.2	47.9
#10	90.4	69.6	78.3	60.2	70.0	53.9
#11	100.4	77.2	86.9	66.9	77.8	59.8

**1.3 l<sub>d</sub> TENSION LAP SPLICES**  
 Class 'B' Splice For Top And Bottom Bars (Grade 60 Bars - Normal Height Concrete - General Use)

BAR SIZE	f <sub>c</sub> = (Normal Height Concrete), psi					
	3,000		4,000		5,000	
	TOP	BOTT	TOP	BOTT	TOP	BOTT
#3	27.8	21.4	24.0	18.5	21.5	16.5
#4	37.0	28.5	32.1	24.7	28.7	22.1
#5	46.3	35.6	40.1	30.8	35.9	27.6
#6	55.5	42.7	48.1	37.0	43.0	33.1
#7	81.0	62.3	70.1	54.0	62.7	48.3
#8	92.6	71.2	80.2	61.7	71.7	55.2
#9	104.4	80.3	90.4	69.6	80.9	62.2
#10	117.6	90.4	101.8	78.3	91.1	70.0
#11	130.5	100.4	113.0	86.9	101.1	77.8

**l<sub>c</sub> COMPRES. DEVELOP. LENGTH**  
 (Grade 60 Bars - Normal Height Concrete - General Use)

BAR SIZE	f <sub>c</sub> = (Normal Height Concrete), psi		
	3,000	4,000	5,000
	#3	8.2	8.0
#4	11.0	9.5	9.0
#5	13.7	11.9	11.3
#6	16.4	14.2	13.5
#7	19.2	16.6	15.8
#8	21.9	19.0	18.0
#9	24.7	21.4	20.3
#10	27.8	24.1	22.9
#11	30.9	26.8	25.4
#14	37.1	32.1	30.5
#18	44.4	42.8	40.6

- CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2x(BAR DIA.) AND CLEAR COVER NOT LESS THAN THE BAR DIAMETER.
- TOP BARS ARE HORIZONTAL REBARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BARS AT THE DEVELOPMENT LENGTH.
- FOR LIGHT-WEIGHT CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

FOR CLASS 'A' SPLICE (PERMITTED ONLY WHEN NOT MORE THAN HALF THE BARS SPLICED AND SPLICES STAGGERED BY THE DISTANCE OF SPLICE LENGTH), USE SAME AS 'l<sub>d</sub>' = TENSION DEVELOPMENT LENGTH TABLE.

(\*) WHEN EITHER SIDE OR END COVER IS SMALLER THAN THE MINIMUM NUMBERS, MULTIPLY l<sub>dh</sub> BY 1.4.

**15 DETAILS OF REINFORCEMENT**

