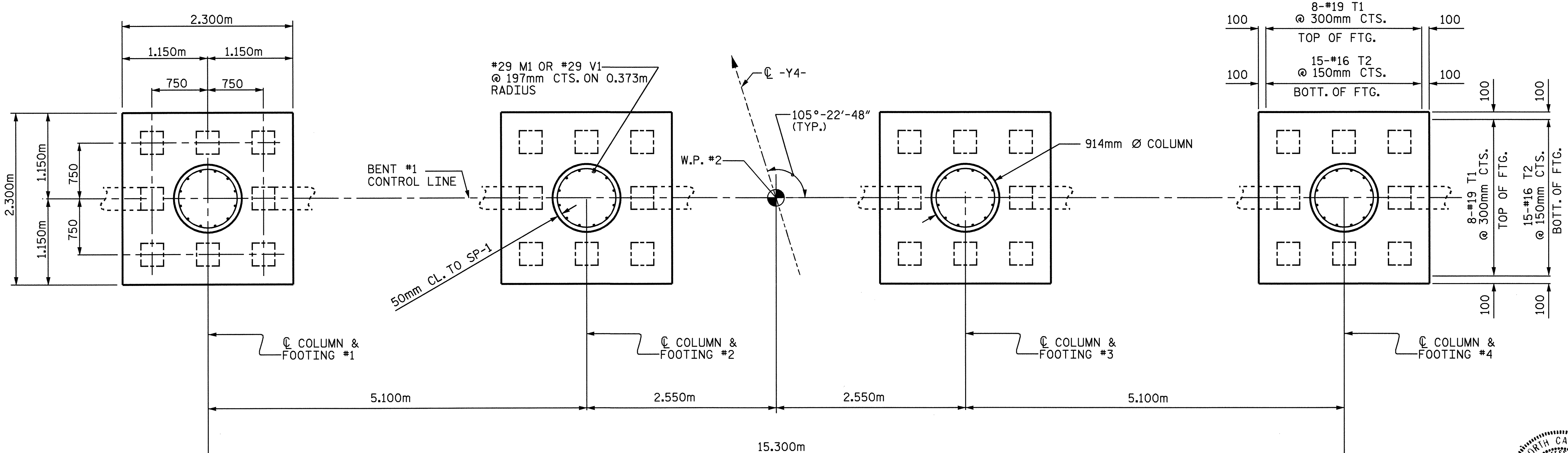


BAR TYPES		BILL OF MATERIAL				
BENT 1						
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT		
B1	14	32	1	11300	1013	
B2	14	32	STR	10420	934	
B3	12	16	STR	9660	180	
B4	7	13	STR	4100	29	
M1	48	29	1	2560	622	
S1	7	16	2	3420	37	
S2	132	16	2	3160	647	
T1	64	19	STR	2140	306	
T2	120	16	STR	2140	399	
U1	36	13	3	1880	67	
U2	8	13	3	1820	14	
U3	8	13	3	1860	15	
V1	48	29	1	6280	1525	
TOTAL REINFORCING STEEL				(kg)	5788	
SPIRAL REINFORCING STEEL				(kg)		
SP-1	4	**	4	184620	734	
TOTAL SPIRAL REINFORCING STEEL				(kg)	734	
CLASS A CONCRETE BREAKDOWN (m <sup>3</sup> )						
POUR #1 (FOOTINGS)					19.5	
POUR #2 (COLUMNS)					13.6	
POUR #3 (BENT CAP)					23.5	
TOTAL					56.6	
305mm SQUARE CONCRETE PILES						
NO.	32	METERS			448	

NOTE: CONCRETE DISPLACED BY CONCRETE PILES HAS BEEN DEDUCTED FROM THE TOTAL CONCRETE QUANTITY.

\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.

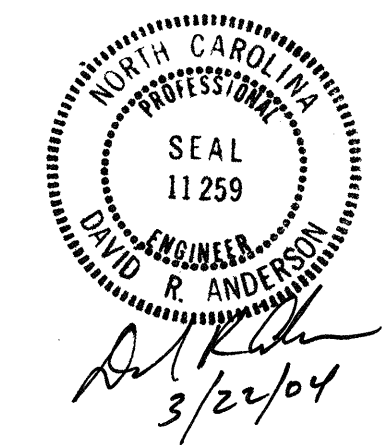
ALL BAR DIMENSIONS ARE OUT TO OUT.



**PLAN OF FOOTINGS**

INFORMATION IS TYPICAL IN COLUMNS, FOOTINGS

DRAWN BY : S. M. RASHIDI DATE : 5/03/04  
CHECKED BY : N. TRAN DATE : 5/03/04



PROJECT NO. R-513C  
ROBESON COUNTY  
STATION: 318+10.648 -L-  
SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE					
BENT #1					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					312