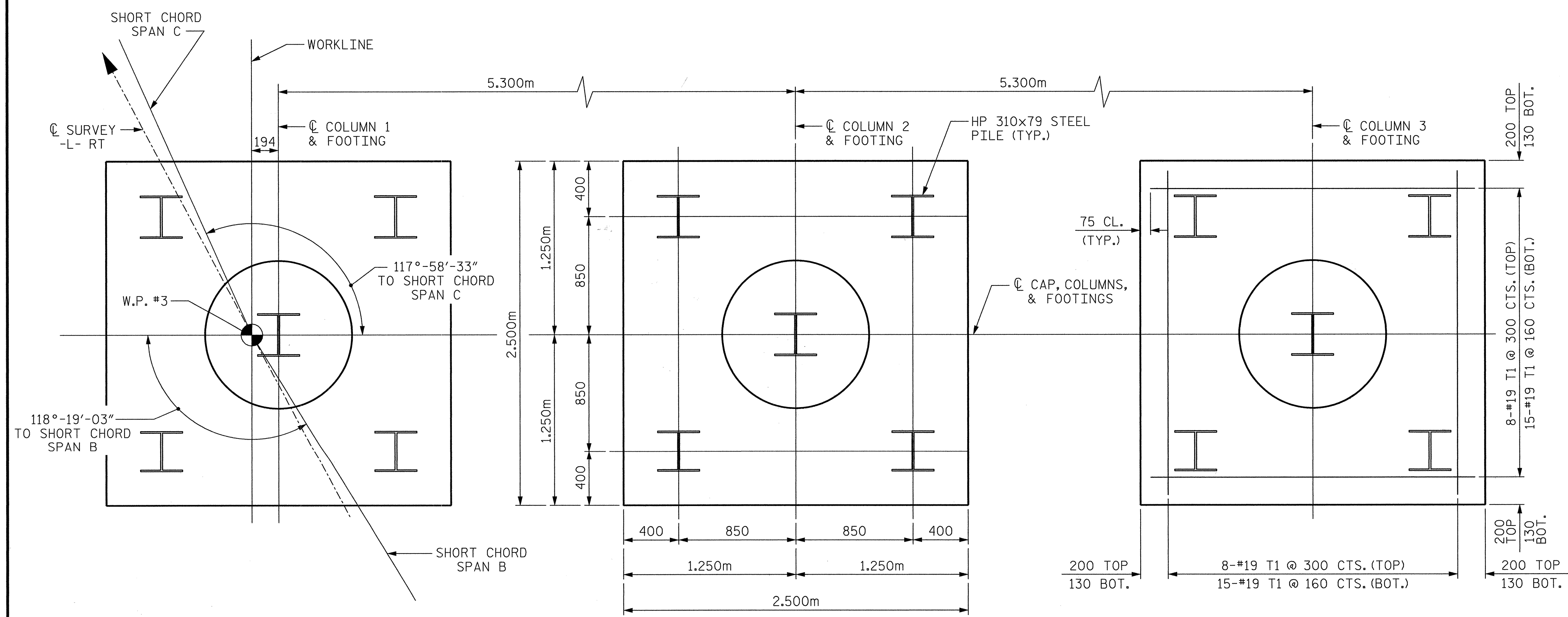


BILL OF MATERIAL					
BENT #2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	29	2	9960	403
B2	8	29	2	7160	290
B3	12	29	STR.	13700	832
B4	2	16	STR.	4860	15
B5	3	13	STR.	1180	4
M1	42	29	2	2380	506
S1	40	16	3	3480	216
S2	40	16	3	3200	199
T1	138	19	1	2740	845
U1	6	13	4	2040	12
U2	3	13	4	1920	6
U3	3	13	4	2140	6
U4	34	13	4	2100	71
V1	42	29	2	6260	1330
SP-1	3	**	5	227,620	679
REINFORCING STEEL					KG. 4735
SPIRAL COLUMN REINFORCING STEEL					KG. 679
CLASS A CONCRETE					CU. METERS
POUR 1 FOOTINGS					16.9
POUR 2 COLUMNS					14.4
POUR 3 CAP					22.2
CLASS A CONCRETE					CU. METERS 53.5
HP310x79 STEEL PILES					
NO. 15					METERS 120

**NOTES**

PILES SHALL BE DRIVEN TO A BEARING CAPACITY OF 530 KN/PILE  
 \*\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.



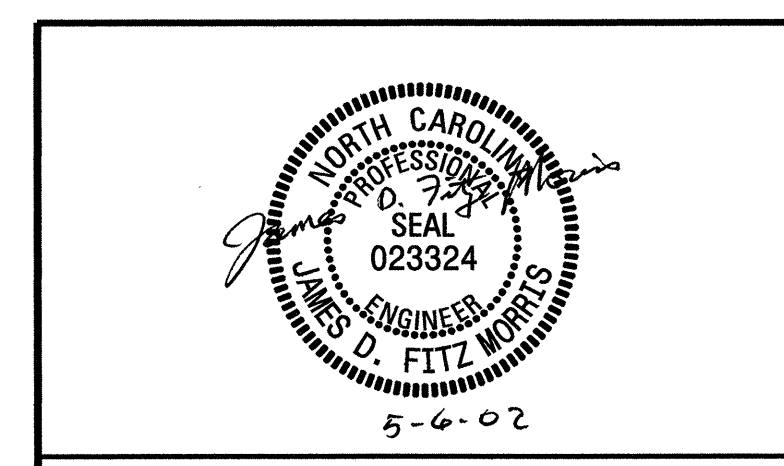
**FOOTING PLAN**

FOOTING DIMENSIONS, REINFORCING STEEL, AND PILE SPACING ARE TYPICAL FOR ALL FOOTINGS

PROJECT NO. **R-2552B**  
**JOHNSTON** COUNTY  
 STATION: **97+46.378-L-RT POC**



SHEET 2 OF 2



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**SUBSTRUCTURE**

**BENT 2**

**CTE ENGINEERS**  
 CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.  
 13325 SOUTH POINT BOULEVARD, SUITE 400  
 CHARLOTTE, NORTH CAROLINA 28213-5820  
 (704) 583-0902

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	DATE:	TOTAL SHEETS
1			3		5-140
2			4		431

DRAWN BY : MHF  
 CHECKED BY : JAW  
 DATE : 05/01/02  
 DATE : 05/01/02