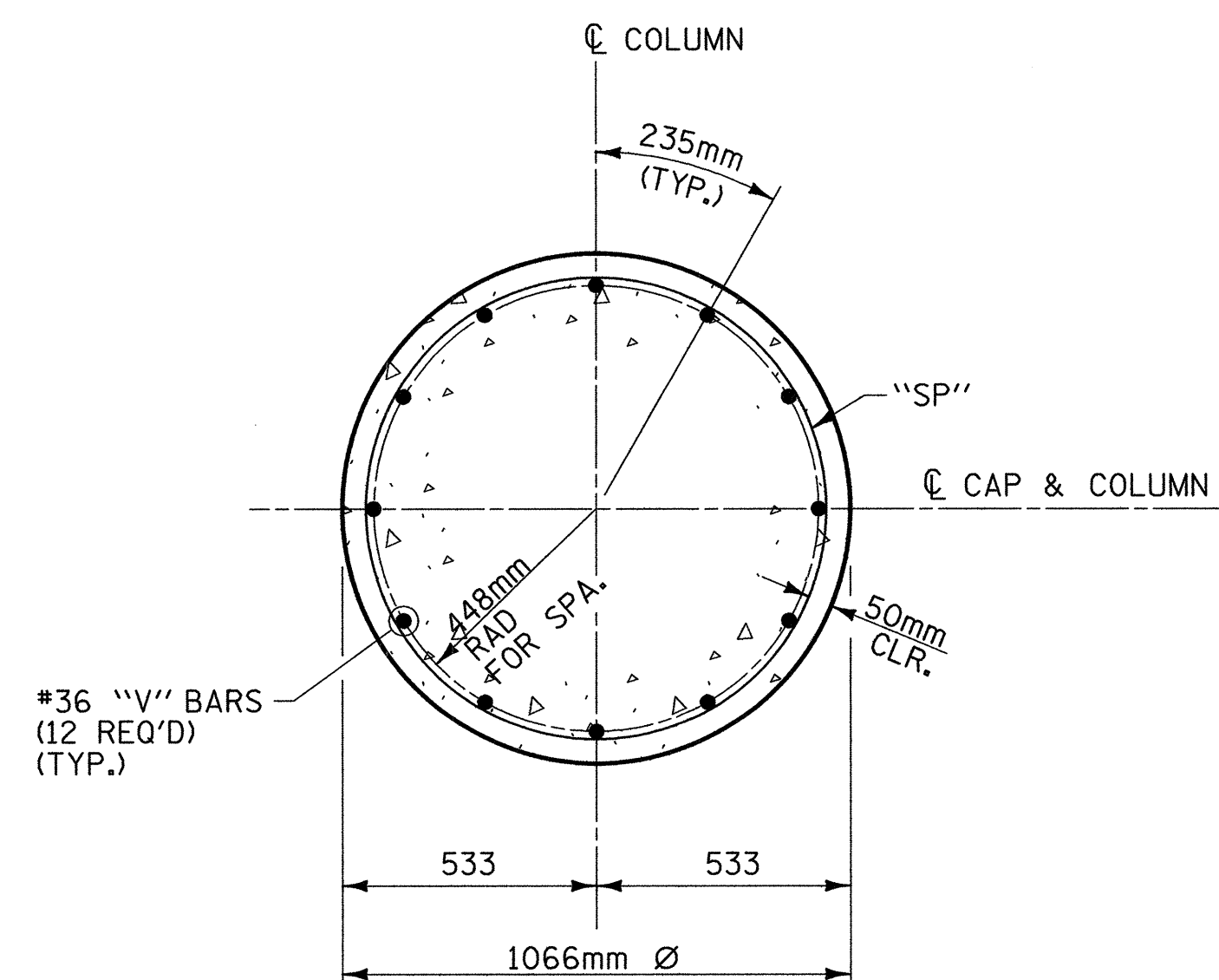


SECTION A-A

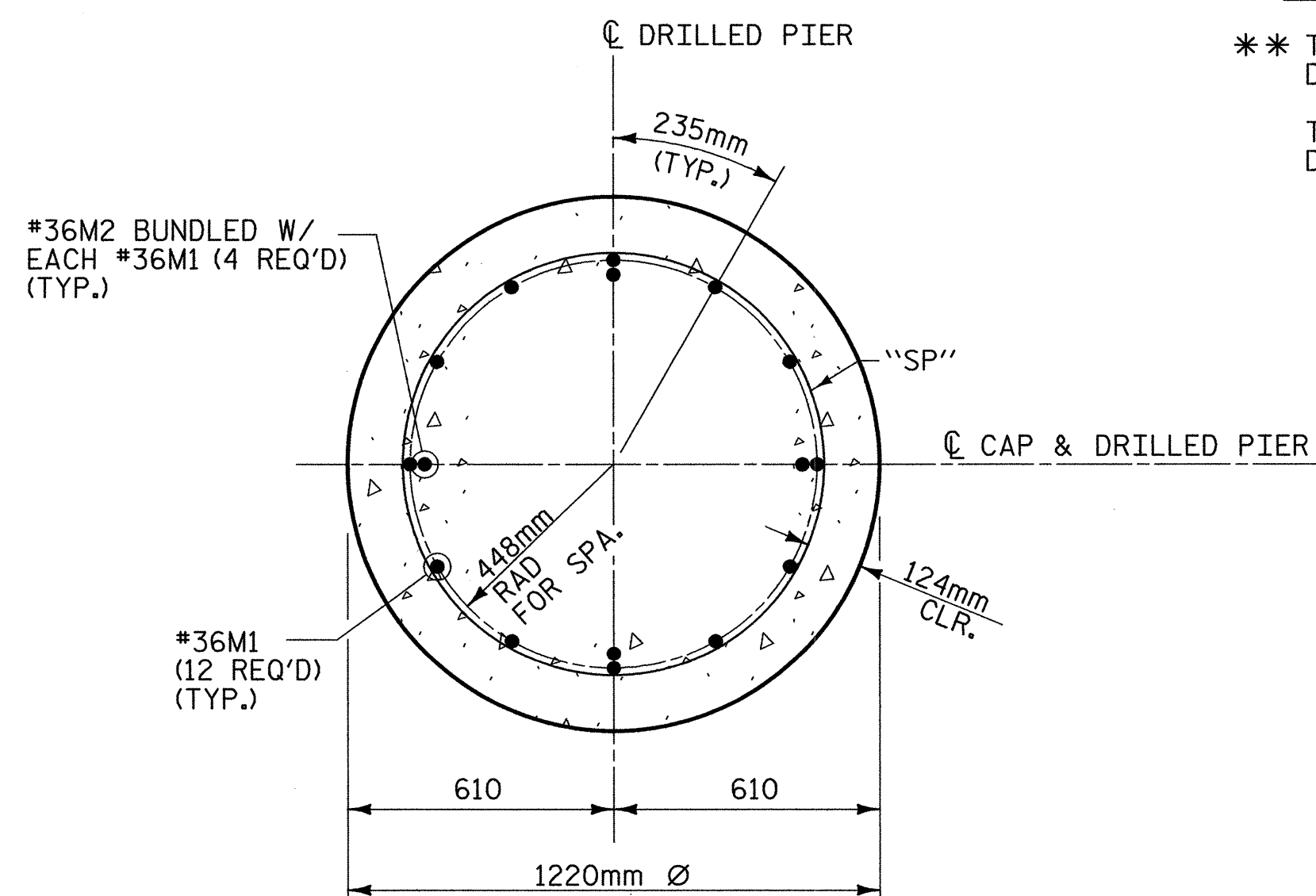
NOTES:

- STIRRUPS IN THE CAP MAY BE SHIFTED AS NECESSARY TO CLEAR ANCHOR BOLTS.
- HOOKS ON "V" BARS MAY BE TURNED AS NECESSARY FOR PLACING REINFORCING STEEL.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE LONGITUDINAL REINFORCEMENT FOR THE DRILLED PIERS IS DETAILED WITH ONE METER OF EXTRA LENGTH.
- ALL STEEL IN THE DRILLED PIERS IS INCLUDED IN THE PAY ITEMS FOR "REINFORCING STEEL" AND "SPIRAL COLUMN REINFORCING STEEL".
- FOR PERMANENT STEEL CASING, SEE SPECIAL PROVISIONS FOR DRILLED PIER.



SECTION THRU COLUMN

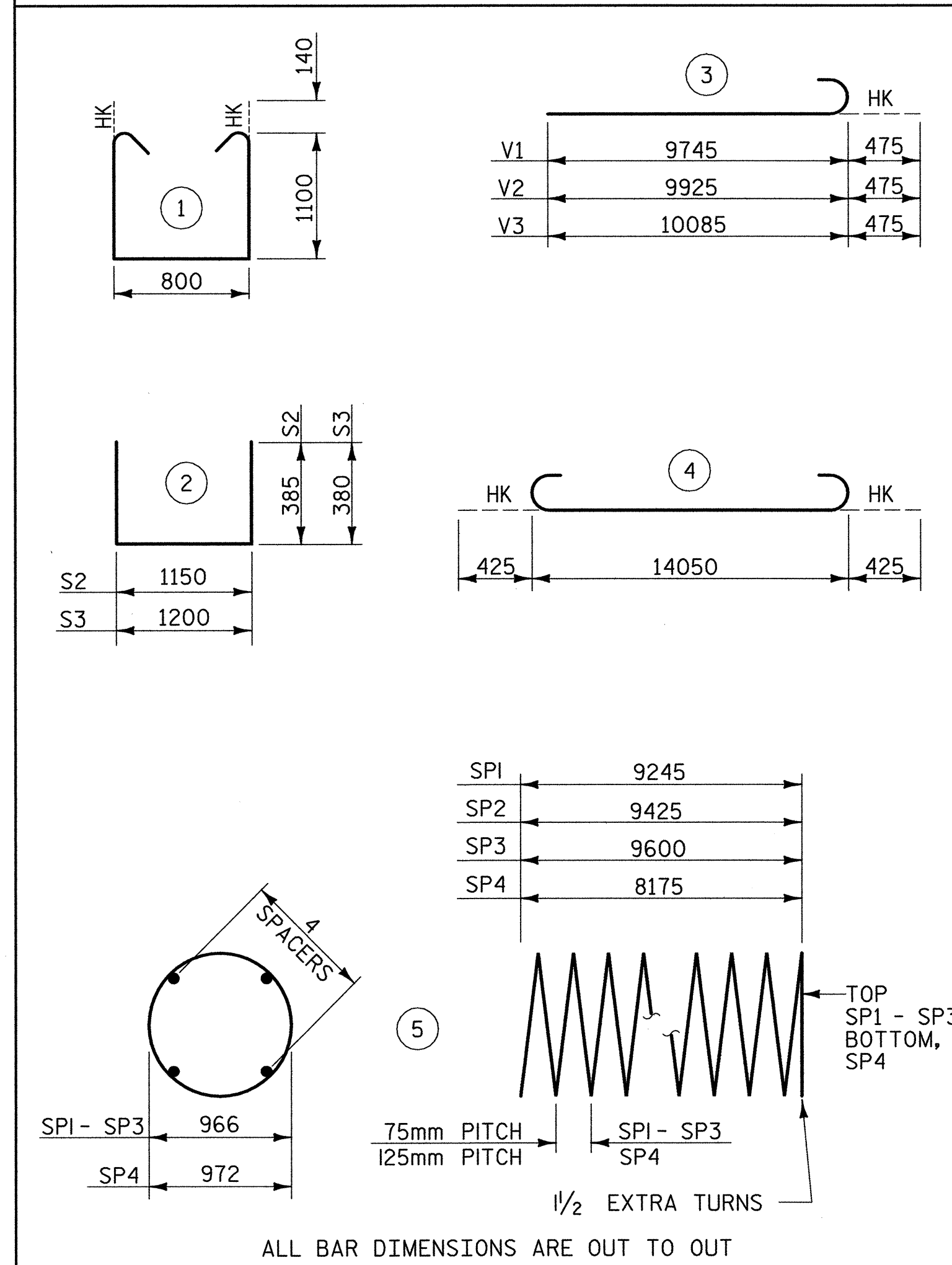
(ALL COLUMNS SIMILAR)
(SEE ELEVATION FOR BAR MARKS)



SECTION THRU DRILLED PIER

(ALL DRILLED PIERS SIMILAR)
(SEE ELEVATION FOR BAR MARKS)

BAR TYPES



** THE SP1 - SP3 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.
THE SP4 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #16 PLAIN OR DEFORMED BAR.

BILL OF MATERIAL

FOR BENT 3					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	6	#36	STR	14100	669
B2	7	#32	4	14900	668
B3	6	#19	STR	14100	189
B4	2	#32	STR	14100	181
M1	36	#36	STR	11500	3273
M2	12	#36	STR	9040	858
S1	104	#16	1	3280	529
S2	18	#13	2	1920	34
S3	45	#13	2	1960	88
V1	12	#36	3	10220	970
V2	12	#36	3	10400	987
V3	12	#36	3	10560	1002
TOTAL REINFORCING STEEL =					9448 kg
SPIRAL COLUMN REINFORCING STEEL =					2036 kg
CLASS "A" CONCRETE - CU. METERS					
POUR 2 (COLUMNS)					25.0 C.M.
POUR 3 (CAP)					23.1 C.M.
TOTAL					48.1 C.M.
DRILLED PIER @ BENT 3					
1220mm DIA. DRILLED PIERS IN SOIL =					14.7 LIN M.
1220mm DIA. DRILLED PIERS NOT IN SOIL =					9.9 LIN M.
PERMANENT STEEL CASING FOR 1220mm DIA. DRILLED PIER =					8.4 LIN M.
SID INSPECTION =					1 EA.
CSL TUBES =					108.6 LIN M.
DRILLED PIER CONC. (FOR INFORMATION ONLY) =					28.8 C.M.

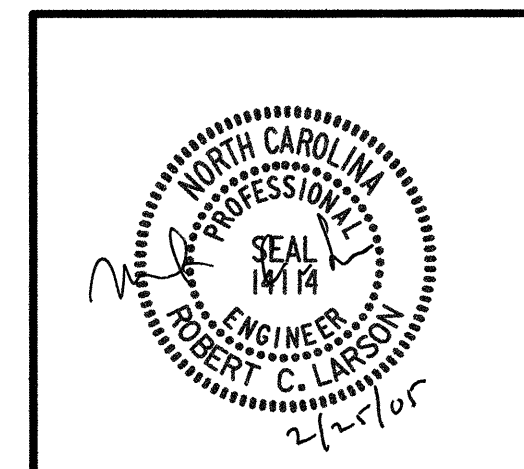


PROJECT NO. R-2552C
JOHNSTON COUNTY
 STATION: 110+37.000 -L2RT- POC

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUBSTRUCTURE
 BENT 3
 (RIGHT LANE)**



PLANS PREPARED BY:
MULKEY
 ENGINEERS & CONSULTANTS
 40 BOX 32127
 RALEIGH, N.C. 27634
 (919) 881-1912
 (919) 881-1918 (FAX)
 WWW.MULKEYINC.COM

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			5-256
2			4			431

REFERENCE NO. BR-31

02/21/2005 08:24:40 AM G:\proj\01\2004\215\01R-2552\Structure\Site\Right Lane\2552C_SD_B3_02.dgn

DRAWN BY : J. P. SHERMAN DATE : 10/04
 CHECKED BY : R. C. LARSON DATE : 1/05