5/28/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

PROJECT REFERENCE NO.	SHEET NO.
R-5817	3B-1

Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE No: P-0339
504 Meadowlands Drive
Hillsborough, NC 27278
(919) 732-3883 - (919) 732-6676 (FAX)

NOTE: INVERT ELEVATIONS INDICATED ARE FOR BID PURPOSES ONLY AND SHALL NOT BE USED FOR PROJECT CONSTRUCTION STAKEOUT. SEE "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, SECTION 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
-L- 18+25	CL	0401	0402		195.7	195.3									
-L- 23+00	RT	0403	0404		200.0	199.8			40						
-L- 23+00	RT														
TOTALS									40						

STATION	C.S. PIPE (UNLESS NOTED OTHRWISE) 12" .064	15" .064	18" .064	24" .064	24"	30" .079	30"	36" .079	36"	42" .109	42"	48" .109	48"	CLASS IV R.C. PIPE (UNLESS OTHERWISE NOTED) 12"	15"	18"	24"	30"	36"	42"	48"
-L- 18+25																	72				
-L- 23+00																					
-L- 23+00																					
TOTALS																	72				

STATION	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	
-L- 18+25													
-L- 23+00													
-L- 23+00													
TOTALS													

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	G.D.I STD. 840.35 AND 340.20	G.D.I. FRAME (N.S. FLAT) W/2 STD. 840.29	T.B.D.I STD. 840.35	T.B.D.I WITH FRAME & GRATE STD. 840.35				CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
-L- 18+25																						
-L- 23+00																						
-L- 23+00																					28	
TOTALS																					28	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+25%	BORROW	WASTE
-L- STA. 10+25.00 TO 25+00.00	415		1805	1390	
-Y1- STA. 12+25.00 TO 13+85.30	8		398	390	
TOTAL	423		2203	1780	
ESTIMATED SHOULDER CONSTRUCTION			75	75	
LOSS DUE TO CLEARING & GRUBBING					
PROJECT TOTALS	423		2278	1855	
5% TO REPLACE TOP SOIL				93	
GRAND TOTALS	423		2278	1948	
SAY	425			1950	

PARCEL INDEX

PARCEL NO.	OWNER	TYPE	AREA (SF)	AREA (AC)
1	KEITH WILLIAMS, ET AL DB 1233 PG 127	ROW	940.08	0.0212
1	KEITH WILLIAMS, ET AL DB 1233 PG 127	TCE	6820.82	0.156
2	ORIS E. MATTHEWS DB 841 PG 375	PUE	695.05	0.016
3	JOHNSTON COUNTY BOARD OF EDUCATION DB 2267 PG 643 PB 60 PG 292	ROW	5932.16	0.136
3	JOHNSTON COUNTY BOARD OF EDUCATION DB 2267 PG 643 PB 60 PG 292	PUE	7696.58	0.177
4	JOYCE COLLINS PUTNAM, ET AL DB 683 PG 40 PB 60 PG 292	ROW	3198.97	0.073
4	JOYCE COLLINS PUTNAM, ET AL DB 683 PG 40 PB 60 PG 292	PUE	13.48	0.001

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