COMPUTED BY: BENJAMIN WHITE, PE DATE:
CHECKED BY: JASON GADDY, PE DATE:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.87	3B-1

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV. (CY)	EMBANK. +% (CY)	BORROW (CY)	WASTE (CY)
-L- 11+00.00	-L- 13+92.94	109	728	619	
BRIDGE					
-L- 14+95.26	-L- 17+25.00	38	437	399	
SUBTOTAL 1:		147	1165	1018	
-Y- 10+11.23	-Y- 11+90.00	378	201		177
SUBTOTAL 2:		378	201		177
SUBTOTAL SUMMARIES 1-2		525	1366	1018	177
EARTH TO REPLACE BORROW:				-177	-177
PROJECT TOTALS		525	1366	841	0
EST 5% TOPSOIL FOR BORROW PITS				42	
GRAND TOTALS:		525	1366	883	0
SAY:		530		890	

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

SHOULDER BERM GUTTER SUMMARY

LINE	STATION	STATION	LENGTH
-L-	13+65.00 (LT)	13+83.13 (LT)	18.13 LF
-L-	13+55.64 (RT)	13+81.00 (RT)	25.36 LF
		TOTAL:	43.49 LF
		SAY:	44.00 LF

PAVEMENT REMOVAL SUMMARY

LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	12+00.00	13+98.94	CL	438.54
-L-	14+89.56	16+73.49	CL	317.08
-Y-	10+16.78	11+90.00	CL	352.28
			TOTAL:	1107.90 SY
			SAY:	1110 SY

CONTINGENCY ITEMS

ITEM	QUANTITY	UNIT
INCIDENTAL STONE BASE	50	TONS
FOUNDATION CONDITIONING MATERIAL	20	TONS
FOUNDATION CONDITIONING GEOTEXTILE	40	SY
UNDERCUT EXCAVATION	50	CY

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" | 24" | 30" | 36" | 36" | 42" | 48" | C.S. PIPE (UNLESS NOTED OTHRWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | CLASS IV R.C. PIPE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 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') LIN. *FT. PER EACH (0' THRU 5.0') | 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 | 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. 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 | T.B.D.I. STD. 840.35 | G.D.I. FRAME WITH TWO GRATES STD. 840.29 | 15" C.S. ELBOW | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
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