

6/21/00

COMPUTED BY: F.A. Tuck DATE: 4/21/05
 CHECKED BY: C. Powell DATE: 4/21/05

PROJECT REFERENCE NO. B-4266
 SHEET NO. 3-A

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

STATION	LOCATION (L/RT, OR CL)	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)								BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)								ENDWALLS	QUANTITIES FOR DRAINAGE STRUCTURES	FRAME, GRATES AND HOOD STANDARD 840.03	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						
						12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"									R.C.P.	C.S.P.	PER EACH (0' THRU 5.0')	5.0' THRU 10.0'	10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02
B-4266																																			
-L- 12+03	LT	1	Out	758.1	757.8	16																													
-L- 12+03	LT	1		762.4																															
-L- 12+03	RT	1	2	758.1	758.2	32																													
-L- 12+03	RT	2		762.4																															
-L- 12+03	RT	2	3	758.2	758.4	96																													
-L- 11+10	RT	3		761.6																															
-DR- 10+46	CL	4					24																												
-DR- 12+87	CL	5															60																		
TOTAL							144	24									60								3								3		

EARTHWORK SUMMARY
 IN CUBIC YARDS

LOCATION	EXCAVATION	EMBANKMENT + %	BORROW	WASTE
SUMMARY NO. 1	TOTAL UNCLASS.			
-L- 11+00 TO 12+79	38	164	126	
-L- BRIDGE STATION 12+79 TO 13+79				
-L- 13+79 TO 16+00	25	148	123	
-DRIVE- 10+00 TO 12+50	436	4		432
PROJECT TOTALS	499	316	249	432
Loss due to clearing and grubbing	-10			-10
Waste to Replace Borrow			-249	-249
GRAND TOTALS	489	316	0	173
SAY	550			
ADDITIONAL UNDERCUT	100			

SUMMARY OF ASPHALT PAVEMENT REMOVAL

STATION TO STATION	LOCATION	SQ. YDS.
-L- STA. 12+50.62 TO STA. 13+05.32	LT/RT.	109.40
-L- STA. 13+44.63 TO STA.14+08.15	LT/RT.	127.04
PROJECT TOTAL		236.44
SAY		250.00

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS						IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	M-350	III	CAT-1	VI MOD	BIC	AT-1				
-L-	9+75.74	12+63.24	RT	287.5			12+75.24		6	9																	
-L-	11+45.74	12+71.24	LT	125				12+83.24	6	9																	
-L-	13+87.24	10+55.65 (Y)	RT	50	62.5			13+75.24	6	9																	
-L-	13+95.24	16+47.24	LT	250.00			13+83.24		6	9																	
			SUB-TOTAL	712.5	62.5																						
			LESS DEDUCTION FOR ANCHORS																								
			GRAU-350 3 @ 50'	150.00'																							
			AT-1 1 @ 6.25'	6.25'																							
			TYPE 111 4 @ 18.75'	75.00'																							
			PROJECT TOTAL	481.25	62.5																						
			SAY	487.5	62.5																						
			ADDITIONAL GUARDRAIL POST				5 EACH																				

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