

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**EARTHWORK SUMMARY**  
 IN CUBIC YARDS

LOCATION	UNCL. EXCAV	EMBT + %	BORROW	WASTE
-L- 11+00 TO 13+50	210	324	172	0
-DRV- 10+25 TO 10+81.35	2	2	0	0
-Y- 19+00 TO 22+00	1230	0	0	1230
SUMMARIES SUBTOTAL	1442	326	172	1230
SHOULDER BORROW			10	
LOSS DUE TO CLR & GRUB	-150		150	
ADJUST FOR ROCK WASTE				308
PROJECT TOTAL	1292	326	332	1538
5% FOR TOPSOIL ON PIT			17	
GRAND TOTAL	1292		349	1538
SAY	1300		350	1550
CONTINGENCY UNDERCUT	200			

**PAVEMENT REMOVAL SUMMARY**  
 IN SQUARE YARDS

STA TO STA	LOCATION	AREA
-Y- 17+98 TO 18+52	RT	50
-L- 10+61 TO 11+29	RT	140
	TOTAL	190
	SAY	200

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

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

STATION	STA	THICKNESS OR GAUGE	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	D.I. FRAME WITH 2 GRATES STD. 840.29	T.B.D.I. STD. 840.35	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	PERFORMED SCOUR HOLE, EACH	PIPE REMOVAL LIN.FT.	REMARKS			
				FROM	TO					12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"											STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)	CU. YDS.	R.C.P.
-L- 10+23.02	LT	1	1	2706.60																																		
-L- 10+23.02	LT	1	2	2703.85	2696.00																																	
-L- 11+35.30	LT	3	4	2711.85																																		
-L- 11+35.30	LT	3	4	2709.10	2707.00																																	
-L- 11+36.83	RT	5		2712.30	2704.40																																	
TOTAL																																						

"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 SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS			IMPACT ATTENUATOR TYPE 350			REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350	III	GRAU (SPECIAL)	PERMITTED NO.	G	NG		
-Y-	-Y- STA 17+66	-L- STA 10+21.51	RT	88.26	18.75		-L- STA 10+21.51		5	7												
-L-	10+29.28	-Y- STA 19+69.48	RT	56.05	18.75			-L- STA 10+29.28	4	7		56.05										38.77
-L-	10+98.52	11+54.27	RT	55.75				-L- STA 10+98.52	2	7												122.45
-L-	11+06.29	12+28.29	LT	122			-L- STA 11+06.29		5	7	50		1									86.75
				SUBTOTAL	322.06	37.5																
				DEDUCTION FOR ANCHORS	-150																	
				TOTAL	172.06	37.5																
				SAY	175	50																247.97
																						250

ADDITIONAL POSTS = 5 EA

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