

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY #1					
-L- Sta. 10+00.00 TO 14+11.00 (Beg. Bridge)	31		272	241	
-L- Sta. 15+09.00 (End Bridge) TO 18+80.00	25		276	251	
SUMMARY SUBTOTAL	56		548	492	
PROJECT SUBTOTAL	56			492	
Est. 5% For Replacing Topsoil On Borrow Pit				25	
PROJECT GRAND TOTAL	56			517	
SAY	60			520	

Est. Undercut = 200 CY

PAVEMENT REMOVAL IN SQUARE YARDS

LINE	LT/RT	STATION TO STATION	SQ.YD.
-L-	LT/RT	13+75.00 TO 14+22.00	104
-L-	LT/RT	15+01.00 TO 15+45.00	98
PROJECT TOTAL			202
SAY			210

SUMMARY OF SHOULDER BERM GUTTER

LINE	LT/RT	STATION TO STATION	FT.
-L-	LT	15+23.00 TO 15+61.00	38
PROJECT TOTAL			38
SAY			38

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

STATION	SIZE	THICKNESS OR GAUGE	LOCATION (L/R, OR CU)	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 STRUCTURES	TYPE OF GRATE	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.	ABBREVIATIONS				
								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')												
-L- 15+57	10"		LT	10	819.0																																	
-L- 15+57	10"		LT	10	OUT	816.3	814.5																1															
GRAND TOTAL:								44															1															

GUARDRAIL SUMMARY

"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

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	III MOD	III	GRAU 350	B-77	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG							
-L-	11+92.25	14+11.00	RT.						8	11							1	1													
-L-	12+54.75	14+11.00	LT.						8	11	105			2.1			1	1													
-L-	15+09.00	16+52.75	RT.						8	11		87.5		1.75			1	1													
-L-	15+09.00	18+15.25	LT.						8	11	105			2.1			1	1													
				SUB-TOTALS:	812.50													4	4												
LESS ANCHOR DEDUCTIONS:				GRAU 350 4 @ 50		200.00																									
				TYPE III 4 @ 18.75		75.00																									
				ANCHOR TOTAL DEDUCTION:		275.00																									
				GRAND TOTALS:		537.50																									
				SAY:		550.00		ADDITIONAL GUARDRAIL POSTS 5 EA.									4	4													