COMPUTED BY: D. PETRY DATE: 2-4-04
CHECKED BY: M. YOUNG DATE: 2-11-04

6/21/00

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-3906	3-A

ASPHALT PAVEMENT REMOVAL SUMMARY

STATION TO STATION	SQUARE YARDS
-L- STA. 17+71 TO -L- STA. 21+90	977.67 SY.
-L- STA. 22+40 TO -L- STA. 28+30	1,376.67 SY.
-L- STA. 28+80 TO -L- STA. 33+01.86	984.34 SY.
PROJECT TOTAL	3,338.68 SY.
SAY	3,340 SY.

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."

SUMMARY OF EARTHWORK

STATION TO STATION	UNCLASIFIED EXCAVATION (cu. yds)	UNDERCUT (cu. yds.)	ROADWAY EMBANKMENT +% (cu. yds)	BORROW (cu. yds)	TOTAL WASTE (cu. yds)
SUMMARY #1					
-L- STA. 17+71.00 -L- STA. 21+70.00 (BEGIN BRIDGE)	137		476	339	
SUMMARY #2					
-L- STA. 22+60.00 (END BRIDGE) -L- STA. 28+00.00 (BEGIN BRIDGE)	285		367	82	
SUMMARY #3					
-L- STA. 29+05.00 (END BRIDGE) -L- STA. 33+01.86	91		337	246	
SUBTOTAL (SUMMARIES 1-3)	513		1,180	667	
EST. 5% FOR REPLACING TOPSOIL ON BORROW PITS				33	
GRAND TOTAL	513		1,180	700	
SAY	520			700	

ESTIMATED UNDERCUT = 200 CY.

"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.

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	XIII	CAT-A	VI MOD	BIC	TYPE III				
-L-	18+58.00	21+58.00	RT.	300.00'				21+58.00	3'	11'		50.00'		1.00'			1						1				
-L-	20+20.50	21+58.00	LT.	137.50'			21+58.00		3'	11'	50.00'		1.00'				1						1				
-L-	22+72.00 (BB)	27+88.00 (EB)	RT.	525.00'			22+72.00	27+88.00	3'	11'													2				
-L-	22+72.00 (BB)	27+88.00 (EB)	LT.	525.00'			27+88.00	22+72.00	3'	11'													2				
-L-	29+17.00	30+54.50	RT.	137.50'			29+17.00		3'	11'		50.00'		1.00'			1						1				
-L-	29+17.00	32+17.00	LT.	300.00'				29+17.00	3'	11'	50.00'		1.00'				1						1				
																	4						8				
							DEDUCTION FOR ANCHOR UNITS:																				
SUBTOTAL				1925.00'			4 GRAU-350 @ 50.00' = 200.00'						... 5 ADDITIONAL GUARDRAIL POSTS														
DEDUCTIONS FOR ANCHOR UNITS:				-350.00'			8 TYPE III @ 18.75' = 150.00'																				
								350.00'																			
TOTAL				1575.00'																							
			SAY	1575'																							

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

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHRWISE) 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (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	MODIFIED CONCRETE FLUME (SEE DETAIL 2-I)	CORR. STEEL ELBOWS NO. & SIZE (BITUMINOUS COATED)	PIPE REMOVAL (LF)	REMARKS
SIZE / THICKNESS OR GAUGE																																									
23+04	RT.	1																															1								
27+56	LT.	2																															1								
27+56	RT.	3																															1								
TOTAL																																	3								

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I. (N.S.)	MEDIAN 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 JUCTION BOX

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