

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**SUMMARY OF EARTHWORK  
 IN CUBIC YARDS**

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. +%	BORROW	WASTE
PHASE I (DETOUR)						
-L- 10+04.15	-L- 15+02.47 (BEGIN BRIDGE)	1818		854	0	964
-L- 17+66.99 (END BRIDGE)	-L- 18+90.38 (BEGIN BRIDGE)	3	950	4948	4945	950
-L- 19+76.60 (END BRIDGE)	-L- 24+80.07	267	225	355	88	225
-Y1DET- 11+20.00	-Y1DET- 12+68.06	128		14		114
-Y2DET- 10+11.25	-Y2DET- 10+88.00	43		4		39
-TEMP DRV- 9+76.32	-TEMP DRV- 10+80.65	338		26		312
-TEMP DRV- 20+40.65	-TEMP DRV- 21+00	408				408
PHASE I TOTALS:		3005	1175	6201	5033	3012
PHASE II (-L-)						
-L- 10+50.00	-L- 14+92.00 (BEGIN BRIDGE)	605		1777	1172	0
-L- 17+77.00 (END BRIDGE)	-L- 18+68.38 (BEGIN BRIDGE)			700	700	0
-L- 19+41.00 (END BRIDGE)	-L- 23+00.00	614		496	0	118
-Y1- 10+85.00	-Y1- 12+22.00	90		54	0	36
-Y2- 10+12.27	-Y2- 11+00.00	20				20
-Y3- 10+15.00	-Y3- 10+85.22	4		488	484	0
PHASE II TOTALS:		1333		3515	2356	174
PHASE III (DETOUR REMOVAL)						
-L- 10+04.15	-L- 15+01.98 (BEGIN BRIDGE)	1003		1164	161	0
-L- 17+66.99 (END BRIDGE)	-L- 18+90.86 (BEGIN BRIDGE)	2714		6	0	2708
-L- 19+76.60 (END BRIDGE)	-L- 24+80.07	161		232	71	0
-TEMP DRV- 20+40.65	-TEMP DRV- 21+00.00	55		10	0	45
PHASE III TOTALS:		3933		1412	232	2753
SUB-TOTALS		8271		11,128	7621	5939
LOSS DUE TO CLEARING & GRUBBING		-300			300	
EARTH WASTE TO REPLACE BORROW					-2243	-2243
ADDITIONAL UNDERCUT			650	780	780	650
ESTIMATE FOR SHOULDER MATERIAL				924	924	
PROJECT TOTALS:		7971	1825	12,832	7382	4346
EST. 5% TO REPLACE BORROW PIT					369	
GRAND TOTALS:		7971	1825	12,832	7751	4346
SAY:		8000			7900	
EST. DDE = 120 CY						
EST. SELECT GRANULAR MATERIAL = 675 CY						
EST. GEOTEXTILE FOR SOIL STABILIZATION = 1150 SY						
EST. SHALLOW UNDERCUT = 100 CY						
EST. CLASS IV SUBGRADE STABILIZATION = 100 TONS						
ACCEPTABLE UNCLASSIFIED EXCAVATION = 350 CY						

NOTE: The acceptable unclassified excavation material may be used in embankment construction, but not in the top 3 feet at the discretion of the Engineer.  
 -DRV- Sta. 10+35 To Sta. 11+30 (10 ft. Lt. to 30 ft. Rt.)

Earthwork quantities are calculated by the Roadway Design Unit.  
 These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the lump sum price for "Grading."