

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
Stage 1					
-L- 15+00.00	-L- 22+40.00	280	5851	5571	
-L- 25+20.00	-L- 32+25.00	1100	949		151
-Y1- 10+12.01	-Y1- 11+85.00	36	209	173	
-Y- 11+70.00	-Y- 15+58.54	42795	3		42793
-DR1- 10+00.00	-DR1- 11+84.75	1066	18		1048
Stage 2					
-L- 15+25.00	-L- 22+40.00	22288	258		22031
-L- 25+20.00	-L- 32+25.00	135	131		4
SUBTOTALS:		67700	7419	5744	66025
SUBTOTALS:					
PROJECT TOTALS:		67700	7419	5744	66025
HARD ROCK WASTE TO REPLACE BORROW				-4163	-4163
ADJUST FOR ROCK SWELL			-833	-833	
ELIMINATE EARTH SHRINKAGE FACTOR			-749	-749	
HARD ROCK WASTE TO REPLACE EARTH EMBANKMENT					
ADJUST FOR ROCK SWELL			-205		205
ELIMINATE EARTH SHRINKAGE FACTOR SINCE THIS MATERIAL IS NOW ROCK			-184		184
APPLY ROCK SWELL FACTOR TO PERMANENTLY WASTED HARD ROCK					2932
APPLY EARTH SHRINKAGE TO PERMANENTLY WASTED HARD ROCK BECAUSE IT IS UNCOMPACTED					2638
PROJECT TOTALS:					
GRAND TOTALS:		67700	5448		67822
SAY:		67800			

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

Note: 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.

UNDERCUT CONTINGENCY = 450 CY
 SALLOW UNDERCUT CONTINGENCY = 100 CY
 CLASS IV SUBGRADE STABILIZATION CONTINGENCY = 200 CY
 SELECT GRANULAR MATERIAL CONTINGENCY = 400 CY

DDE = 330 CY
 PAVEMENT STRUCTURE VOLUME = 400 CY