

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
SUMMARY OF EARTHWORK
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY NO. 1					
-Y3- 13+25.00 TO 26+50.00	397		4,801	4,404	
-Y4- 10+10.00 TO 12+42.12	59		326	267	
-L- 373+00.00 TO 403+00.00	2,422		2,050,283	2,047,861	
-L- 403+00.00 TO 410+06.22	137,903		280		137,623
(INCLUDES PORTION OF -Y1RPB-, -Y1RPC-, & -Y1LPB-)					
-Y1RPB- 19+00.00 TO 32+00.00	61,361		117,251	55,890	
-Y1RPC- 18+35.00 TO 31+11.75	5,112		138,502	133,390	
-Y1LPB- 13+50.00 TO 18+00.00	20,095		46		20,049
-Y1- 10+75.00 TO 28+13.39	3,334		12,398	9,064	
-Y1- 30+34.05 TO 48+50.00	26,661		32,983	6,322	
(INCLUDES -Y1DET- REMOVAL)					
-DR2- 10+16.50 TO 12+10.00	25		1,030	1,005	
(INCLUDES -DR3-)					
-Y1DET- 15+93.03 TO 33+46.92	6,019		12,352	6,333	
SUBTOTAL	263,388		2,370,252	2,264,536	157,672
SUMMARY NO. 2					
-L- 410+06.22 TO 440+00.00	290,132		209,861		80,271
(INCLUDES PORTION OF -Y1RPD- & -SRSA-)					
-L- 440+00.00 TO 447+50.00	45,148		42,127		3,021
(INCLUDES PORTION OF -SRSA- & -Y2DET-)					
-Y1RPD- 18+60.00 TO 31+50.00	24,095		136,015	111,920	
-Y2- 10+00.00 TO 20+18.52	2,491		926		1,565
-Y2- 22+40.27 TO 26+50.00	575		1,152	577	
(INCLUDES -Y2DET- REMOVAL)					
-SRSA- 10+00.00 TO 12+00.00	493		13		480
-SRSA- 29+50.00 TO 31+00.00	438		20		418
-Y2DET- 15+00.00 TO 20+00.00	577		883	306	
-Y2DET- 23+00.00 TO 28+03.31	1,104		12		1,092
SUBTOTAL	365,053		391,009	112,803	86,847

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY NO. 3					
-L- 447+50.00 TO 472+42.45	691,856			17,192	674,664
SUBTOTAL	691,856			17,192	674,664
SUMMARY NO. 4					
-L- 474+52.45 TO 478+00.00	159			54,281	54,122
SUBTOTAL	159			54,281	54,122
TOTAL	1,320,456			2,832,734	2,431,461
MATERIAL FOR SHOULDER CONSTRUCTION					
LOSS DUE TO CLEARING & GRUBBING					
	-30,000			30,000	
WASTE IN LIEU OF BORROW					
				-919,183	-919,183
PROJECT TOTAL	1,290,456			2,855,534	1,565,078
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					
GRAND TOTAL	1,290,456			2,855,534	1,643,332
SAY					
	1,350,000			1,700,000	
PAVEMENT STRUCTURE VOLUME					
	47,500				
EARTHWORK TOTALS FOR ALTERNATE PAVEMENT DESIGN					
ADJUSTMENT FOR ALTERNATE PAVEMENT DESIGN					
	-13,000			15,600	28,600
MATERIAL FOR SHOULDER CONSTRUCTION					
				18,000	18,000
LOSS DUE TO CLEARING & GRUBBING					
	-30,000			30,000	
WASTE IN LIEU OF BORROW					
				-919,183	-919,183
PROJECT TOTAL	1,277,456			2,866,334	1,588,878
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					
GRAND TOTAL	1,277,456			2,866,334	1,668,322
SAY					
	1,350,000			1,700,000	
PAVEMENT STRUCTURE VOLUME					
	35,000				

QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL RE-CROSS-SECTION THE WORK ACCURATELY WHEN THE PROJECT IS STAKED OUT. THESE CROSS-SECTION NOTES WILL BE USED IN COMPUTING THE FINAL QUANTITIES FOR WHICH THE CONTRACTOR WILL BE PAID.

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.

EST. UNDERCUT = 10,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015.
 EST. SELECT GRANULAR MATERIAL = 35,900 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015.
 EST. SHALLOW UNDERCUT = 5,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015.
 EST. DDE = 19,500 CY
 EST. PAVEMENT STRUCTURE VOLUME = 47,500 CY
 EST. PAVEMENT STRUCTURE VOLUME FOR ALTERNATIVE PAVEMENT DESIGN = 35,000 CY

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