

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**SUMMARY OF EARTHWORK**  
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- 12+00.00 TO -L- 42+00.00	1,911	432	26,041	24,130	432
-DET1- 17+40.00 TO -DET1- 20+20.00	51		400	349	
<b>SUBTOTAL</b>	<b>1,962</b>	<b>432</b>	<b>26,441</b>	<b>24,479</b>	<b>432</b>
-L- 42+00.00 TO -L- 72+00.00	7		154,691	154,684	
-Y1- 11+00.00 TO -Y1- 17+25.00	581	121	5,066	4,485	121
-Y1A- 10+39.01 TO -Y1A- 17+35.00	127		2,563	2,436	
-DET2- 10+00.00 TO -DET2- 19+62.48	55		4,990	4,935	
<b>SUBTOTAL</b>	<b>770</b>	<b>121</b>	<b>167,310</b>	<b>166,540</b>	<b>121</b>
-L- 72+00.00 TO -L- 102+00.00	2,850	11,865	100,043	97,193	11,865
<b>SUBTOTAL</b>	<b>2,850</b>	<b>11,865</b>	<b>100,043</b>	<b>97,193</b>	<b>11,865</b>
-L- 102+00.00 TO -L- 132+00.00	118,423	11,755	32,878		97,301
-Y2- 12+00.00 TO -Y2- 21+55.13 (BRIDGE)	302	232	13,245	12,943	232
-Y2- 23+31.63 (BRIDGE) TO -Y2- 32+14.57	49		14,328	14,279	
-Y2A- 10+50.00 TO -Y2A- 43+00.57	4,149	6,559	15,466	11,317	6,559
-Y2B- 10+31.84 TO -Y2B- 12+75.00	10	94	2,419	2,409	94
-Y2C- 10+52.84 TO -Y2C- 13+34.95	156		1,545	1,389	
-Y2D- 10+50.00 TO -Y2D- 15+42.87	1,832	3,558	6,305	4,473	3,558
-Y2E- 10+28.15 TO -Y2E- 14+62.14	835	1,266	2,254	1,419	1,266
<b>SUBTOTAL</b>	<b>125,756</b>	<b>23,464</b>	<b>88,440</b>	<b>48,229</b>	<b>109,010</b>
-L- 132+00.00 TO -L- 147+15.00 (BRIDGE)	12,830	4,552	34,236	21,406	4,552
<b>SUBTOTAL</b>	<b>12,830</b>	<b>4,552</b>	<b>34,236</b>	<b>21,406</b>	<b>4,552</b>
-L- 148+75.00 (BRIDGE) TO -L- 167+74.73 (BRIDGE)	80	769	126,398	126,318	769
<b>SUBTOTAL</b>	<b>80</b>	<b>769</b>	<b>126,398</b>	<b>126,318</b>	<b>769</b>
-L- 179+34.19 (BRIDGE) TO -L- 209+00.00	19	733	86,806	86,787	733
<b>SUBTOTAL</b>	<b>19</b>	<b>733</b>	<b>86,806</b>	<b>86,787</b>	<b>733</b>
-L- 208+00.00 TO -L- 231+42.77	5,565	1,324	61,896	56,786	1,779
-DET2- 18+00.00 TO -DET2- 19+62.48	41				41
-Y3- 10+00.00 TO -Y3- 17+05.53 (BRIDGE)	48	9	18,613	18,565	9
-Y3- 19+32.53 (BRIDGE) TO -Y3- 28+00.00	328	404	23,994	23,666	404
-Y3A- 10+50.00 TO -Y3A- 23+50.00	1,745	4,959	13,860	12,151	4,995
-Y3B- 10+29.08 TO -Y3B- 13+10.00	800	300	1,378	578	300
-Y3C- 15+50.00 TO -Y3C- 18+70.90	1,907	2,114	6,824	4,917	2,114
-Y3D- 10+32.00 TO -Y3D- 24+00.00	333	383	1,825	1,492	383
-Y3E- 10+29.72 TO -Y3E- 13+00.00	591	471	598		471
<b>SUBTOTAL</b>	<b>11,377</b>	<b>9,964</b>	<b>128,988</b>	<b>118,162</b>	<b>10,455</b>

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
<b>TOTAL</b>	<b>155,625</b>	<b>51,900</b>	<b>758,662</b>	<b>689,114</b>	<b>137,978</b>
LOSS DUE TO CLEARING AND GRUBBING	-550			550	
WASTE IN LIEU OF BORROW				-80,338	-80,338
SHOULDER MATERIAL			31,250	31,250	
UNDERCUT CONTINGENCY		8,000	10,000	10,000	8,000
GRADE POINT UNDERCUT		1,700	2,125	2,125	1,700
SELECT GRANULAR MATERIAL USED TO BACFILL UNDERCUT			-77,000	-77,000	
CLASS IV AGGREGATE STABILIZATION IN LIEU OF BORROW			-17,313	-17,313	
<b>PROJECT TOTAL</b>	<b>155,075</b>	<b>61,600</b>	<b>707,725</b>	<b>558,389</b>	<b>67,340</b>
EST. 5% TO REPLACE BORROW PIT				27,919	
<b>GRAND TOTAL</b>	<b>155,075</b>	<b>61,600</b>	<b>707,725</b>	<b>586,308</b>	<b>67,340</b>
SAY	158,750	61,600		593,600	

ESTIMATED DDE 21,555 CY  
 ESTIMATED SELECT GRANULAR MATERIAL 82,250 CY  
 -L- PAVEMENT STRUCTURE VOLUME = 71,890 CY

R-2514C

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
<b>TOTAL</b>	<b>24,916</b>	<b>15,050</b>	<b>1,245,086</b>	<b>1,281,756</b>	<b>15,600</b>
SAY TOTAL	25,500	15,050		1,300,000	

ESTIMATED DDE 23,722 CY  
 ESTIMATED SELECT GRANULAR MATERIAL 45,350 CY  
 -L- PAVEMENT STRUCTURE VOLUME = 89,400 CY

COMBINED R-2514BR2514C

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
R-2514B SAY TOTAL	158,750	61,600		593,600	
R-2514C SAY TOTAL	25,500	15,050		1,300,000	
<b>COMBINED R2514BR2514C SAY TOTAL</b>	<b>184,250</b>	<b>76,650</b>		<b>1,893,600</b>	

ESTIMATED DDE 45,277 CY  
 ESTIMATED SELECT GRANULAR MATERIAL 127,600 CY  
 -L- PAVEMENT STRUCTURE VOLUME = 161,290 CY

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.

Note: "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."