COMPUTED BY: SKR DATE: 7-1-14
CHECKED BY: BAK DATE: 7-23-14

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
U-3465	3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT EXCAV.	EMBANK. +%	BORROW	WASTE
-L- STA. 21+00.00 (LT.)	-L- STA. 51+00.00 (LT.)	2,079		11,978	9,899	
-YA1- STA. 10+70.00	-YA1- STA. 14+28.06	688		654		34
-YA2- STA. 10+00.00	-YA2- STA. 18+51.46	1,776		876		900
-YC- STA. 10+27.00	-YC- STA. 11+35.00	145		6		139
-DRV2- STA. 14+32.47	-DRV2- STA. 17+16.20	25		1,610	1,585	
-DRV3- STA. 10+60.00	-DRV3- STA. 11+82.00	337		4		333
SUBTOTAL:		5,050		15,128	11,484	1,406
-L- STA. 21+00.00 (RT.)	-L- STA. 51+00.00 (RT.)	899		31,770	30,871	
-Y- STA. 11+00.00	-Y- STA. 19+50.00	2,049		2,279	230	
-YB- STA. 10+24.07	-YB- STA. 13+27.04	216		1,016	800	
SUBTOTAL:		3,164		35,065	31,901	
-L- STA. 51+00.00 (LT.)	-L- STA. 81+00.00 (LT.)	546		8,870	8,324	
-Y2- STA. 12+43.14	-Y2- STA. 13+25.00	140		30		110
SUBTOTAL:		686		8,900	8,324	110
-L- STA. 51+00.00 (RT.)	-L- STA. 81+00.00 (RT.)	3,319		11,216	7,897	
-Y1- STA. 10+49.50	-Y1- STA. 12+25.00	37		1,028	991	
-Y2- STA. 10+80.00	-Y2- STA. 11+44.04	37		20		17
SUBTOTAL:		3,393		12,264	8,888	17
-L- STA. 81+00.00 (LT.)	-L- STA. 111+00.00 (LT.)	2,214		9,988	7,774	
-DRV1- STA. 10+43.45	-DRV1- STA. 19+12.69	2,367		4,496	2,129	
-Y4- STA. 10+20.00	-Y4- STA. 16+88.46	4,563	200	295		4,468
-Y4A- STA. 10+50.00	-Y4A- STA. 11+68.43	12		219	207	
SUBTOTAL:		9,156	200	14,998	10,110	4,468
-L- STA. 81+00.00 (RT.)	-L- STA. 111+00.00 (RT.)	370		4,290	3,920	
-Y3- STA. 10+51.06	-Y3- STA. 12+00.00	9		320	311	
SUBTOTAL:		379		4,610	4,231	
-L- STA. 111+00.00 (LT.)	-L- STA. 141+00.00 (LT.)	2,790	200	16,955	14,165	200
-Y5- STA. 11+50.00	-Y5- STA. 12+66.76	40		50	10	
-Y6- STA. 11+75.00	-Y6- STA. 14+30.57	264		66		198
SUBTOTAL:		3,094	200	17,071	14,175	398
-L- STA. 111+00.00 (RT.)	-L- STA. 141+00.00 (RT.)	5,173	250	24,485	19,412	350
-Y6A- STA. 10+37.50	-Y6A- STA. 13+07.13	14		164	150	
-Y6B- STA. 10+37.64	-Y6B- STA. 11+70.00	22		28	6	
SUBTOTAL:		5,209	250	24,677	19,568	350
-L- STA. 141+00.00 (LT.)	-L- STA. 171+00.00 (LT.)	7,622		13,301	5,679	
SUBTOTAL:		7,622		13,301	5,679	
-L- STA. 141+00.00 (RT.)	-L- STA. 171+00.00 (RT.)	195		7,491	7,296	
SUBTOTAL:		195		7,491	7,296	
-L- STA. 171+00.00 (LT.)	-L- STA. 201+00.00 (LT.)	6,643	2,050	22,800	16,657	2,550
SUBTOTALS:		6,643	2,050	22,800	16,657	2,550
-L- STA. 171+00.00 (RT.)	-L- STA. 201+00.00 (RT.)	1,141		7,460	6,319	
-Y7- STA. 10+49.53	-Y7- STA. 13+00.00	587		310		277
SUBTOTAL:		1,728		7,770	6,319	277
-L- STA. 201+00.00 (LT.)	-L- STA. 221+46.80 (LT.)	804		9,784	8,980	
-Y8- STA. 11+25.00	-Y8- STA. 14+33.65	156		999	843	
SUBTOTAL:		960		10,783	9,823	
-L- STA. 201+00.00 (RT.)	-L- STA. 221+46.80 (RT.)	1,880		2,790	910	
SUBTOTAL:		1,880		2,790	910	
TOTAL:		49,159	2,700	197,648	155,365	9,576
EST. MATERIAL FOR SHOULDER CONSTRUCTION:				2,188	2,188	
LOSS DUE TO CLEARING & GRUBBING:		(-) 2,700			2,700	
ADDITIONAL UNDERCUT EXCAVATION			3,000	3,750	3,750	3,000
GRADE POINT UNDERCUT EXCAVATION			3,520	4,400	4,400	3,520
SELECT GRANULAR MATERIAL IN LIEU OF BORROW				(-) 3,375	(-) 3,375	
WASTE IN LIEU OF BORROW:					(-) 3,226	(-) 3,226
PROJECT TOTALS:		46,459	9,220	204,610	161,801	12,870
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT:					8,090	
GRAND TOTAL:		46,459	9,220	204,610	169,891	12,870
SAY:		47,000	9,220		170,000	

ESTIMATED DRAINAGE DITCH EXCAVATION = 1,505 CY
-L-, -Y-, -Y4-, -DRV1- PAVEMENT STRUCTURE VOLUME = 14,000 CY

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.

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	25+50	30+75	CL	1,497.43
-L-	32+00	39+75	CL	2,479.71
-YA1-	13+67.2	14+28.06	CL	685.48
-YA2-	16+00	19+47.8	RT	3,307.24
-Y-	10+11.9	13+32.9	LT	1,575.30
-Y-	14+14	17+82.7	LT	1,243.65
-L-	47+00	52+66.4	LT	699.55
-Y1-	10+00	11+50	LT	428.25
-Y1-	10+00	11+50	RT	425.96
-L-	55+50	60+00	LT	1,206.34
-L-	60+00	60+92.2	LT	80.06
-Y2-	11+71.5	12+75	CL	390.10
-L-	72+58.7	79+14.2	LT	599.89
-L-	79+85	80+90.8	LT	576.79
-L-	81+99.6	88+54.6	CL	749.47
-L-	93+90.5	98+55.9	RT	367.33
-Y4-	11+50	17+21.3	LT	1,336.16
-Y3-	10+42.2	11+00	CL	247.54
-L-	105+10.2	118+11.9	CL	1,922.99
-Y4A-	11+25	12+04	CL	216.80
-L-	118+83.1	124+23	LT	499.34
-L-	124+52.5	125+00.9	RT	137.48
-Y6-	14+28.8	14+80.6	CL	170.94
-L-	126+76.2	131+00	CL	890.64
-Y6B-	10+06.4	10+38	CL	120.91
-L-	131+59.7	136+08.2	LT	533.17
-L-	135+92.3	143+00	CL	1,933.94
-Y7-	10+39.6	11+25	CL	496.44
-L-	191+97.6	202+00.4	CL	634.96
-Y8-	13+00	14+70.7	CL	773.75
-L-	204+78.2	210+50	CL	937.11
-L-	210+50	217+00	CL	2,990.92
-L-	217+00	220+14.2	LT	370.58
-YC-	10+48.5	11+18	CL	154.34
-L-	TEMP. PAVEMENT PER TMP PLANS TO BE REMOVED			3344.44
-L-	TEMP. PAVEMENT PER TMP PLANS TO BE REMOVED			5111.11
			TOTAL:	39,136.13
			SAY:	39,500

SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	30+75	32+00	CL	356.48
-L-	39+75	47+00	CL	3,083.25
			TOTAL:	3,439.73
			SAY:	3,500

12/06/07

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