

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 SUMMARY OF EARTHWORK**

ALTERNATIVE 1 - ABC

ALTERNATIVE 2 - B25.0B

STATION	STATION	EXCAVATION TOTAL UNCLASS.	EMBANK. +%	BORROW TOTAL	WASTE TOTAL
-L- LT 17+50	-L- LT 39+00	1,073	5,219	4,146	
-Y3- 10+50	-Y3- 11+50	79	30		49
SUMMARY POINT #1	SUBTOTAL	1,152	5,249	4,146	49
-L- LT 39+00	-L- LT 67+60 (BEGIN BRIDGE)	12,163	8,424		3,739
-Y4- 11+00	-Y4- 12+50	140	347	207	
-Y5- 11+00	-Y5- 12+00	59	38		21
SUMMARY POINT #2	SUBTOTAL	12,362	8,809	207	3,760
-L- LT 68+90 (END BRIDGE)	-L- LT 97+50	3,481	28,448	24,967	
SUMMARY POINT #3	SUBTOTAL	3,481	28,448	24,967	
-L- LT 97+50	-L- LT 127+00	2,132	12,419	10,287	
-Y9- 11+50	-Y9- 12+50	34	198	164	
-Y10- 11+50	-Y10- 15+50	1,114	245		869
-Y13- 11+00	-Y13- 13+00	8	1,893	1,885	
-RABT- LT	-RABT- LT	359	4,093	3,734	
-Y14- 10+50	-Y14- 12+50	147	110		37
-Y16- 11+50	-Y16- 12+00	58	21		37
SUMMARY POINT #4	SUBTOTAL	3,852	18,978	16,069	943
-L- LT 127+00	-L- LT 149+81	2,991	8,856	5,865	
-Y17- 10+50	-Y17- 11+50	46			46
-Y18- 11+10	-Y18- 12+00	142	29		113
-Y22- 10+00	-Y22- 13+00	251			251
-DR2- 11+60	-DR2- 11+90	106	2		104
SUMMARY POINT #5	SUBTOTAL	3,536	8,887	5,865	514
-L- RT 17+50	-L- RT 39+00	17,846	3,148		14,698
-Y2- 10+40.75	-Y2- 11+50	50			50
SUMMARY POINT #6	SUBTOTAL	17,896	3,148		14,748
-L- RT 39+00	-L- RT 67+60 (BEGIN BRIDGE)	2,374	25,515	23,141	
-Y6- 10+50	-Y6- 11+50	230			230
SUMMARY POINT #7	SUBTOTAL	2,604	25,515	23,141	230
-L- RT 68+90 (END BRIDGE)	-L- RT 97+50	14,015	18,268	4,253	
-Y7- 11+00	-Y7- 13+00	291	304	13	
-Y8- 10+50	-Y8- 15+00	5,356	9		5,347
-Y8A- 10+00	-Y8A- 12+00	1,657	15		1,642
SUMMARY POINT #8	SUBTOTAL	21,319	18,596	4,265	6,989
-L- RT 97+50	-L- RT 127+00	35,153	28,318		6,835
-Y11- 11+50	-Y11- 15+00	4,081	2		4,079
-Y12- 12+00	-Y12- 13+00	73			73
-Y20- 10+00	-Y20- 12+00	1,915	1		1,914
-RABT- RT	-RABT- RT	304	5,121	4,817	
-Y15- 11+00	-Y15- 13+50	12	2,292	2,280	
SUMMARY POINT #9	SUBTOTAL	41,538	35,734	7,097	12,901
-L- RT 127+00	-L- RT 149+81	18,098	1,576		16,523
-Y19- 11+00	-Y19- 11+50	23	7		16
-Y21- 10+00	-Y21- 14+50	768	86		682
-Y22- 14+00	-Y22- 18+50	287	63		224
SUMMARY POINT #10	SUBTOTAL	19,176	1,732		17,444
SUMMARY POINT #1-10	TOTAL	126,916	155,095	85,757	57,579
MATERIAL FOR SHOULDER CONSTRUCTION			5,650	5,650	
LOSS DUE TO CLEARING & GRUBBING		-3,100		3,100	
WASTE IN LIEU OF BORROW				-22,911	-22,911
PROJECT TOTAL		123,816	160,745	71,596	34,668
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				3,580	
GRAND TOTAL		123,816	160,745	75,176	34,668
SAY		124,000		76,000	

EST. DDE = 3,680 CUBIC YARDS
 EST. SHALLOW UNDERCUT = 4,000 CUBIC YARDS (PER GEOTECH RECOMMENDATIONS - JULY 29, 2014)
 CLASS IV SUBGRADE STABILIZATION = 8,000 TONS (PER GEOTECH RECOMMENDATIONS - JULY 29, 2014)
 EST. UNDERCUT = 2,500 CUBIC YARDS TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER (PER GEOTECH RECOMMENDATIONS JULY 29, 2014)
 -L- PAVEMENT STRUCTURE VOLUME = 13,319 CUBIC YARDS

STATION	STATION	EXCAVATION TOTAL UNCLASS.	EMBANK. +%	BORROW TOTAL	WASTE TOTAL
-L- LT 17+50	-L- LT 39+00	441	5,268	4,827	
-Y3- 10+50	-Y3- 11+50	79	30		49
SUMMARY POINT #1	SUBTOTAL	520	5,298	4,827	49
-L- LT 39+00	-L- LT 67+60 (BEGIN BRIDGE)	10,963	8,991		1,972
-Y4- 11+00	-Y4- 12+50	140	347	207	
-Y5- 11+00	-Y5- 12+00	59	38		21
SUMMARY POINT #2	SUBTOTAL	11,162	9,376	207	1,993
-L- LT 68+90 (END BRIDGE)	-L- LT 97+50	2,310	28,096	25,786	
SUMMARY POINT #3	SUBTOTAL	2,310	28,096	25,786	
-L- LT 97+50	-L- LT 127+00	1,176	13,607	12,431	
-Y9- 11+50	-Y9- 12+50	34	198	164	
-Y10- 11+50	-Y10- 15+50	1,114	245		869
-Y13- 11+00	-Y13- 13+00	8	1,893	1,885	
-RABT- LT	-RABT- LT	319	4,229	3,910	
-Y14- 10+50	-Y14- 12+50	147	110		37
-Y16- 11+50	-Y16- 12+00	58	21		37
SUMMARY POINT #4	SUBTOTAL	2,856	20,302	18,389	943
-L- LT 127+00	-L- LT 149+81	2,037	9,298	7,261	
-Y17- 10+50	-Y17- 11+50	46			46
-Y18- 11+10	-Y18- 12+00	142	29		113
-Y22- 10+00	-Y22- 13+00	251			251
-DR2- 11+60	-DR2- 11+90	106	2		104
SUMMARY POINT #5	SUBTOTAL	2,582	9,329	7,261	514
-L- RT 17+50	-L- RT 39+00	16,418	3,663		12,755
-Y2- 10+40.75	-Y2- 11+50	50			50
SUMMARY POINT #6	SUBTOTAL	16,468	3,663		12,805
-L- RT 39+00	-L- RT 67+60 (BEGIN BRIDGE)	1,585	25,819	24,234	
-Y6- 10+50	-Y6- 11+50	230			230
SUMMARY POINT #7	SUBTOTAL	1,815	25,819	24,234	230
-L- RT 68+90 (END BRIDGE)	-L- RT 97+50	12,451	18,246	5,795	
-Y7- 11+00	-Y7- 13+00	291	304	13	
-Y8- 10+50	-Y8- 15+00	5,356	9		5,347
-Y8A- 10+00	-Y8A- 12+00	1,657	15		1,642
SUMMARY POINT #8	SUBTOTAL	19,755	18,574	5,808	6,989
-L- RT 97+50	-L- RT 127+00	33,669	28,856		4,813
-Y11- 11+50	-Y11- 15+00	4,081	2		4,079
-Y12- 12+00	-Y12- 13+00	73			73
-Y20- 10+00	-Y20- 12+00	1,915	1		1,914
-RABT- RT	-RABT- RT	271	5,231	4,960	
-Y15- 11+00	-Y15- 13+50	12	2,292	2,280	
SUMMARY POINT #9	SUBTOTAL	40,021	36,383	7,240	10,879
-L- RT 127+00	-L- RT 149+81	16,730	1,846		14,884
-Y19- 11+00	-Y19- 11+50	23	7		16
-Y21- 10+00	-Y21- 14+50	768	86		682
-Y22- 14+00	-Y22- 18+50	287	63		224
SUMMARY POINT #10	SUBTOTAL	17,808	2,002		15,806
SUMMARY POINT #1-10	TOTAL	115,297	158,840	93,751	50,208
MATERIAL FOR SHOULDER CONSTRUCTION			5,650	5,650	
LOSS DUE TO CLEARING & GRUBBING		-3,100		3,100	
WASTE IN LIEU OF BORROW				-26,916	-26,916
PROJECT TOTAL		112,197	164,490	75,585	23,292
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				3,779	
GRAND TOTAL		112,197	164,490	79,365	23,292
SAY		113,000		80,000	

EST. DDE = 3,680 CUBIC YARDS
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 -L- PAVEMENT STRUCTURE VOLUME = 7,109 CUBIC YARDS

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.