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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ICA Engineering
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

PROJECT REFERENCE NO.	SHEET NO.
W-5516	3B-1

Earthwork quantities are calculated by ICA Engineering.
These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
SUMMARY NO. 1					
-L- 15+50.00 TO -L- 42+00.00	14,252		56,532	42,280	
-Y1- 11+40.00 TO -Y1- 14+44.45	108		73		35
-Y1- 14+67.40 TO -Y1- 17+15.00	28		38	10	
-Y2- 12+90.00 TO -Y2- 15+74.88	2,019		0		2,019
-Y2- 15+96.96 TO -Y2- 18+10.00	102		30		72
TOTAL SUMMARY NO. 1	16,509		56,673	42,290	2,126
SUMMARY NO. 2					
-L- 42+00.00 TO -L- 57+45.40	3,089		37,344	34,255	
TOTAL SUMMARY NO. 2	3,089		37,344	34,255	
SUB-TOTAL SUMMARIES NOS. 1 thru 2	19,598		94,017	76,545	2,126
(WEST OF I-85)					
WASTE IN LIEU OF BORROW				-2,126	-2,126
TOTAL SUMMARIES NOS. 1 thru 2	19,598		94,017	74,419	
(WEST OF I-85)					
SUMMARY NO. 3					
-L- 62+75.40 TO -L- 90+00.00	147,412	50	15,110		132,352
TOTAL SUMMARY NO. 3	147,412	50	15,110		132,352
SUMMARY NO. 4					
-L- 90+00.00 TO -L- 120+00.00	116,550		9.339		107,211
TOTAL SUMMARY NO. 4	116,550		9,339		107,211
SUMMARY NO. 5					
-L- 120+00.00 TO -L- 141+70.00	11,111	1,550	4,120		8,541
-Y3- 11+15.00 TO -Y3- 20+19.04	3,312		306		3,006
-Y3A- 10+25.00 TO -Y3A- 11+44.95	44		29		15
TOTAL SUMMARY NO. 5	14,467	1,550	4,455		11,562
SUMMARY NO. 6					
-SAC_ALN- 14+15.00 TO -SAC_ALN- 14+35.00	50				50
-SAC_ALN- 27+29.00 TO -SAC_ALN- 28+23.80	49		408	359	
TOTAL SUMMARY NO. 6	99		408	359	50

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
SUB-TOTAL SUMMARY NOS. 3 thru 6	278,528	1,600	29,312	359	251,175
(EAST OF I-85)					
WASTE IN LIEU OF BORROW				-359	-359
TOTAL SUMMARIES NOS. 3 thru 6	278,528	1,600	29,312		250,816
(EAST OF I-85)					
PROJECT SUB-TOTALS	298,126	1,600	123,329	74,419	250,816
MATERIAL FOR SHOULDER CONSTRUCTION			7,536	7,536	
LOSS DUE TO CLEARING AND GRUBBING	-12,140				-12,140
ADDITIONAL UNDERCUT		350	420	420	350
ROCK WASTE TO REPLACE BORROW					
ADJUST FOR ROCK WASTE					
PROJECT TOTALS	285,986	1,950	131,285	82,375	239,026
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				4,119	
GRAND TOTALS	285,986	1,950	131,285	86,494	239,026
SAY	286,000			86,500	

-L-, -Y2-, & -Y3- PAVEMENT STRUCTURE VOLUME	10,850 CY
ESTIMATED DDE	5,140 CY
SHALLOW UNDERCUT (PER GEOTECH)	150 CY
CLASS IV SUBGRADE STABILIZATION (PER GEOTECH)	300 TONS
SELECT GRANULAR MATERIAL (PER GEOTECH)	300 CY

12/06/07
7/20/2015
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ICA ENGINEERING INC