

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV. (CY)	UNDERCUT (CY)	EMBANK. +% (CY)	BORROW (CY)	WASTE (CY)
-TIE- 12+00.00	17+50.00	394		14,274	13,880	
SUBTOTALS:		394		14,274	13,880	
-L- 174+50.00	180+00.00	249		2,762	2,513	
-Y17- 11+85.00	13+64.13	26		190	164	
-Y17- 14+39.13	15+50.00	22		256	234	
SUBTOTALS:		297		3,208	2,911	
-L- 180+00.00	204+00.00	2,484		1,981	87	590
-Y18- 11+40.00	13+12.53	102		20		82
-Y19- 10+37.50	12+15.00	69		119	50	
-Y21- 11+85.00	13+40.18	152				152
-Y21- 14+15.22	14+80.00	18		33	15	
-Y22- 11+80.00	13+12.62	57		51		6
-Y22- 13+87.64	14+30.00	10		23	13	
-Y23- 10+37.52	11+65.00	25		18		8
-Y24- 11+15.00	13+62.69	251		5		246
-Y24- 14+37.73	16+85.00	109		33		76
SUBTOTALS:		3,277		2,283	165	1,160
-L- 204+00.00	234+00.00	3,290		5,121	2,380	549
-Y25- 11+10.00	12+68.38	69		49		20
-Y25- 13+43.66	14+05.00	12		14	2	
-Y26- 11+30.00	12+70.86	80		8		72
-Y28- 15+86.48	20+68.00	461		200		261
SUBTOTALS:		3,912		5,392	2,382	902
-L- 234+00.00	263+99.70	2,273		10,072	7,799	
-Y29- 10+09.71	11+52.52	81		93	12	
-Y29- 12+28.66	12+95.00	23		16		6
-Y30- 11+20.00	12+53.00	52		44		8
-Y30- 13+28.32	14+85.00	107		58		50
-Y31- 12+25.00	17+35.10	461		1,067	606	
-Y31A- 10+22.53	11+30.00	3		259	256	
-Y32- 10+37.50	11+22.00	98		102	4	
SUBTOTALS:		3,098		11,711	8,677	64
-L- 265+49.70	271+79.70	493		121		372
-ROUND1- 10+00.00	13+58.14	221		2,404	2,183	
-ROUND2- 10+00.00	13+58.14	3		2,978	2,975	
-RPA- 13+47.27	19+91.33	1,020		1,773	753	
-RPB- 11+30.00	13+82.18	575		188		386
-RPC- 15+00.00	23+29.58	306		1,214	908	
-RPD- 12+20.00	14+80.17	179		85		94
SUBTOTALS:		2,797		8,763	6,819	852
-L- 273+29.70	289+75.00	2,758		2,460	1,353	1,651
SUBTOTALS:		2,758		2,460	1,353	1,651
TOTALS:		16,533		48,091	36,187	4,629
MATERIAL FOR SHOULDER CONSTRUCTION:				1,250	1,250	
WASTE IN LIEU OF BORROW:					-1,839	-1,839
PROJECT TOTALS:		16,533		49,341	35,598	2,790
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					1,780	
GRAND TOTALS:		16,533		49,341	37,378	2,790
SAY:		16,600			37,400	

EST. UNDERCUT EXCAVATION (CONTINGENCY) = 1,400 CY TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER (PER GEOTECH RECS LETTER - FEBRUARY 14, 2018)
 EST. SHALLOW UNDERCUT BY STATIONS = 6,500 CY (PER GEOTECH RECS LETTER - FEBR. 14, 2018: -L- STA. 182+90 TO 227+25 LT RT = 6380 CY; -RPB- STA. 11+30 TO 13+75 LT & RT = 120 CY)
 EST. SELECT GRANULAR MATERIAL (CONTINGENCY) = 400 CY (PER GEOTECH RECS LETTER - FEBRUARY 14, 2018)
 EST. DDE = 1,780 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.