COMPUTED BY: JAW DATE: MARCH 7, 2016
CHECKED BY: PJJ DATE: SEPTEMBER 22, 2016

PROJECT REFERENCE NO.	SHEET NO.
R-3100A	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN 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.

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
PHASE 1					
-L- RT 12+00.00 TO 42+00.00	19,876		17,431		2,445
-Y17- 10+35.69 TO 12+00.00	139		75		64
SUBTOTAL	20,015		17,506		2,509
-L- RT 42+00.00 TO 72+00.00	7,444		22,581	15,137	
-Y18- 10+35.51 TO 11+50.00	80		146	66	
SUBTOTAL	7,524		22,727	15,203	
-L- RT 72+00.00 TO 101+38.91	6,588		17,699	11,111	
-L- LT 94+70.00 TO 101+38.91	305		1,348	1,043	
-Y19- 13+15.00 TO 19+96.58	2,289		438		1,851
-Y19- 20+67.72 TO 27+00.00	1,437		626		811
SUBTOTAL	10,619		20,111	12,154	2,662
-L- RT 101+38.91 TO 127+00.00	23,870		14,253		9,617
-L- LT 101+38.91 TO 108+05.00	1,876		606		1,270
SUBTOTAL	25,746		14,859		10,887
-L- LT 127+00.00 TO 157+00.00	7,719		18,261	10,542	
-L- RT 127+00.00 TO 139+00.00	736		7,398	6,662	
-L- RT 139+00.00 TO 142+00.00	96		176	80	
-Y31- 11+40.00 TO 12+59.50	41		62	21	
-L- RT 150+00.00 TO 152+50.00	10		335	325	
-Y20- 11+50.00 TO 13+09.03	270		278	8	
SUBTOTAL	8,872		26,510	17,638	
-L- LT 157+00.00 TO 187+00.00	33,508		16,202		17,306
-CBT_DR- 10+35.50 TO 12+28.12	40		1304	1,264	
-DR1- 10+35.50 TO 12+67.20	61		33		28
SUBTOTAL	33,609		17,539	1,264	17,334
-L- LT 187+00.00 TO 217+00.00	26,749		7,875		18,874
-DET- 10+00.00 TO 12+80.62	860		0		860
-Y22- 12+10.00 TO 13+64.23	1,267		110		1,157
-DET- REMOVAL 10+00.00 TO 12+80.62	201		239	38	
-L- RT 201+00.00 TO 203+50.00	186		347	161	
SUBTOTAL	29,263		8,571	199	20,891
-L- LT 217+00.00 TO 233+00.00	0		38,793	38,792	
-L- LT 233+00.00 TO 248+23.86	12,582		6,117		6,465
SUBTOTAL	12,582		44,910	38,792	6,465
-L- LT 248+23.86 TO 253+80.00	1,838		753		1,085
-L1- 15+53.53 TO 20+62.23	76		293	217	
SUBTOTAL	1,914		1,046	217	1,085
PHASE 1 SUBTOTAL	150,144		173,779	85,468	61,833
WASTE TO REPLACE BORROW				-61,833	-61,833
PHASE 1 TOTAL	150,144		173,779	23,635	0

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
PHASE 2					
-L- LT 12+00.00 TO 42+00.00	5,196		3,160		2,036
-Y16- 11+75.00 TO 13+39.49	130		141	11	
SUBTOTAL	5,326		3,301	11	2,036
-L- LT 42+00.00 TO 72+00.00	6,409		4,441		1,968
SUBTOTAL	6,409		4,441		1,968
-L- LT 72+00.00 TO 94+70.00	3,780		2,246		1,534
SUBTOTAL	3,780		2,246		1,534
-L- LT 108+05.00 TO 127+00.00	8,546		3,892		4,654
SUBTOTAL	8,546		3,892		4,654
-L- RT 142+00.00 TO 150+00.00	106		749	643	
-L- RT 152+50.00 TO 157+00.00	146		674	528	
SUBTOTAL	252		1,423	1,171	
-L- RT 157+00.00 TO 187+00.00	2,903		3,792	889	
SUBTOTAL	2,903		3,792	889	
-L- RT 187+00.00 TO 201+00.00	1,048		2,854	1,806	
-L- RT 203+50.00 TO 217+00.00	2,547		1,582		965
-Y21- 10+36.48 TO 12+15.00	38		634	596	
SUBTOTAL	3,633		5,070	2,402	965
-L- RT 217+00.00 TO 240+00.00	8,686		5,403		3,283
SUBTOTAL	8,686		5,403		3,283
PHASE 2 SUBTOTAL	39,535		29,568	4,473	14,440
WASTE TO REPLACE BORROW				-4,473	-4,473
PHASE 2 TOTAL	39,535		29,568	0	9,967
PHASE 3					
-L- RT 240+00.00 TO 253+80.00	985		1,036	51	
-L- CL 127+00.00 TO 135+00.00	27		116	89	
-L- CL 248+50.00 TO 253+80.00	8		584	576	
SUBTOTAL	1,020		1,736	716	
PHASE 3 SUBTOTAL	1,020		1,736	716	
WASTE TO REPLACE BORROW					
PHASE 3 TOTAL	1,020		1,736	716	0

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