

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	EXCAVATION		EMBT +%	BORROW	TOTAL WASTE
	TOTAL UNCLASSIFIED	UNDERCUT			
SUMMARY 1					
-L- LEFT 254+50.00 TO 284+50.00	132,314	-	65,213	-	67,101
-Y1REV- 12+40.50 TO 12+85.34	58	-	0	-	58
TOTAL SUMMARY # 1	132,372		65,213		67,159
SUMMARY 2					
-L- RIGHT 254+50.00 TO 284+50.00	136,555	-	1,408	-	135,147
-Y1A- 10+50.75 TO 12+50.00	224	-	3,059	2,835	-
-Y2- 10+47.50 TO 14+72.93	23,220	-	708	-	22,512
-Y2A- 10+11.10 TO 10+65.00	106	-	130	24	-
-Y3- 10+47.50 TO 13+45.00	467	-	3,972	3,505	-
-DRW2- 10+39.50 TO 11+50.00	9,958	-	-	-	9,958
-DRW2- 16+50.00 TO 17+55.00	118	-	3	-	115
-DRW3- 10+39.50 TO 12+90.00	1,731	-	52	-	1,679
-DRW3A- 10+05.00 TO 11+15.00	44	-	1,094	1,050	-
-L-DET- RIGHT 10+00.00 TO 24+28.94	3,919	-	37	-	3,882
TOTAL SUMMARY # 2	176,342		10,463	7,414	173,293
SUMMARY 3					
-L- LEFT 284+50.00 TO 314+50.00	2,234	-	69,473	67,239	-
-DRW5- 10+05.00 TO 11+01.58	80	-	899	819	-
-L-DET- LEFT 28+94.21(LT) TO 49+61.54	4,776	-	8,762	3,986	-
TOTAL SUMMARY # 3	7,090		79,134	72,044	
SUMMARY 4					
-L- RIGHT 284+50.00 TO 314+50.00	286,639	-	105,242	-	181,397
-Y4- 10+53.70 TO 19+26.60	20,787	-	15,504	-	5,283
-DRW6REV- 10+35.50 TO 14+86.00	14,757	-	-	-	14,757
-L-DET- RIGHT 24+28.94 TO 49+61.54	297	-	342	45	-
TOTAL SUMMARY # 4	322,480		121,088	45	201,436
SUMMARY 5					
-L- LEFT 314+50.00 TO 344+50.00	2,161	-	59,980	57,819	0
-Y6- 14+00.00 TO 15+50.53	578	-	163	-	415
TOTAL SUMMARY # 5	2,739		60,143	57,819	415
SUMMARY 6					
-L- RIGHT 314+50.00 TO 344+50.00	283,122	-	3,417	-	279,705
-Y5- 10+35.55 TO 13+15.00	790	-	1,126	336	-
TOTAL SUMMARY # 6	283,912		4,543	336	279,705
SUMMARY 7					
-L- LEFT 344+50.00 TO 374+50.00	10,173	-	27,242	17,069	0
-DRW6A- 10+39.50 TO 13+05.00	3,834	-	331	-	3,503
-DRW6B- 10+50.00 TO 11+45.00	893	-	168	-	725
-L-X01- 11+00.00 TO 20+35.00	31,106	-	2,910	-	28,197
TOTAL SUMMARY # 7	46,006		30,651	17,069	32,424
SUMMARY 8					
-L- RIGHT 344+50.00 TO 374+50.00	298,947	-	12,765	-	286,182
-Y7- 10+52.13 TO 13+30.00	23,948	-	4,327	-	19,621
-Y9REV- 10+36.04 TO 15+73.64	80,550	-	590	-	79,960

LOCATION	EXCAVATION		EMBT +%	BORROW	TOTAL WASTE
	UNCLASSIFIED EXCAVATION	UNDERCUT			
-DRW7- 10+39.50 TO 12+15.00	1,156	-	1,053	-	103
TOTAL SUMMARY # 8	404,601		18,736		385,865
SUMMARY 9					
-L- LEFT 374+50.00 TO 404+50.00	927,333	-	3,243	-	924,090
-Y8REV- 10+00.00 TO 12+84.70	1,907	-	266	-	1,641
-Y8AREV- 10+00.00 TO 11+50.00	-	-	2,486	2,486	-
-DRW9- 10+39.50 TO 13+00.00	2,623	-	26	-	2,597
-Y11- 10+95.00 TO 17+28.33	97,541	-	64	-	97,477
-DRW11- 10+08.40 TO 13+00.00	2,128	-	60	-	2,068
-L-DET- RIGHT 11+01.67 TO 16+96.83	191	-	823	632	-
TOTAL SUMMARY # 9	1,031,723		6,969	3,118	1,027,872
SUMMARY 10					
-L- RIGHT 374+50.00 TO 404+50.00	1,120	-	11,222	10,102	-
-Y10- 10+35.62 TO 11+05.00	68	-	265	197	-
TOTAL SUMMARY # 10	1,188		11,487	10,299	
SUMMARY 11					
-L- LEFT 404+50.00 TO 434+50.00	920,471	-	3,397	-	917,074
TOTAL SUMMARY # 11	920,471		3,397		917,074
SUMMARY 12					
-L- RIGHT 404+50.00 TO 434+50.00	2,593	-	2,142	-	451
-Y12- 10+39.22 TO 11+35.00	6	-	228	222	-
-DRW13- 10+39.50 TO 12+00.00	2	-	596	594	-
TOTAL SUMMARY # 12	2,601		2,966	816	451
SUMMARY 13					
-L- LEFT 434+50.00 TO 464+50.00	67,805	-	12,222	-	55,583
-Y13- 10+50.00 TO 13+19.15	5,586	-	500	-	5,086
-Y15- 12+00.00 TO 14+99.45	493	-	1,349	856	-
-DRW12- 10+39.50 TO 12+80.00	2,321	-	-	-	2,321
-L-X03- 10+00.00 TO 16+45.77	682	-	25	-	657
TOTAL SUMMARY # 13	76,887		14,097	856	63,646
SUMMARY 14					
-L- RIGHT 434+50.00 TO 464+50.00	1,623	-	4,231	2,608	-
-Y14- 10+35.64 TO 11+95.00	67	-	335	268	-
TOTAL SUMMARY # 14	1,690		4,566	2,876	
TOTAL SUMMARIES 1-14	3,410,102		433,451	172,691	3,149,342

LOCATION	EXCAVATION		EMBT +%	BORROW	TOTAL WASTE
	TOTAL UNCLASSIFIED	UNDERCUT			
TOTAL SUMMARIES 1-14	3,410,102		433,451	172,691	3,149,342
LOSS DUE TO CLEARING & GRUBBING	-20,000	-	-	-	-20,000
CLVII SELECT MATERIAL TO REPLACE BORROW AT 1.5:1 SLOPES		-	-23,000	-23,000	-
HARD ROCK WASTE TO REPLACE BORROW		-	-	-108,471	-108,471
ADJUST FOR ROCK SWELL		-	-21,694	-21,694	-
ELIMINATE EARTH SHRINKAGE FACTOR SINCE NOW ROCK		-	-19,525	-19,525	-
HARD ROCK WASTE TO REPLACE EMBANKMENT		-	-	-	-
ADJUST FOR ROCK SWELL		-	-35,771	-	35,771
ELIMINATE EARTH SHRINKAGE FACTOR SINCE NOW ROCK		-	-32,194	-	32,194
APPLY ROCK WASTE FACTOR TO PERM.WASTED HARD ROCK		-	-	-	42,880
APPLY EARTH SHRINKAGE FACTOR PERM.WASTED HARD ROCK		-	-	-	38,592
PROJECT TOTAL	3,390,102		301,267		3,170,307
SAY	3,391,000	-	-	-	-
SHOULDER BORROW = 16,820 CY					
TOE BENCHING EXCAVATION = 3,900 CY					
UNDERCUT EXCAVATION = 1,000 CY (CONTINGENCY)					
SHALLOW UNDERCUT = 500 CY (CONTINGENCY)					
DDE = 1,080 CY					
-L,-L-DET,-L-DET2,-Y2,-Y4,-Y7,-Y8REV,-Y9REV,-Y11,-&Y13- PAVEMENT STRUCTURE VOLUME= 87,600 CY					

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