

COMPUTED BY: SGM DATE: 7/8/2022
 CHECKED BY: JLT DATE: 7/8/2022

PROJECT NO.	SHEET NO.
A-0009CC	3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK IN CUBIC YARDS

Station	Station	Uncl. Excav.	Undercut	Embank. +%	Borrow	Waste
-L- 414+50.00	-L- 444+50.00	22,650		1,105		21,545
Retaining Wall # 27			560			560
-DR3- 10+20.00	-DR3- 11+72.03	4,055				4,055
SUBTOTAL 1		26,705	560	1,105		26,160
-L- 444+50.00	-L- 474+19.52	13,476		2,208		11,268
SUBTOTAL 2		13,476		2,208		11,268
-Y2-12+60.00	-Y2- 40+00.00	90,331		23,786		66,545
Retaining Wall # 30			2,850			2,850
SUBTOTAL 3		90,331	2,850	23,786		69,395
-Y2- 40+00.00	-Y2- 70+00.00	24,372		62,375	38,003	
Retaining Wall # 32			8,150			8,150
-DR4- 10+12.13	DR4- 11+10.00	57		3,950	3,893	
SUBTOTAL 4		24,429	8,150	66,325	41,896	8,150
-Y2- 70+00.00	-Y2- 90+00.00	11,189		5,920		5,269
SUBTOTAL 5		11,189		5,920		5,269
TOTAL		166,130	11,560	99,344	41,896	120,242
UNSUITABLE WASTE (PER GEOTECH)		0				0
LOSS DUE TO CLEARING & GRUBBING		-7,000				-7,000
ADDITIONAL UNDERCUT (PER GEOTECH)			2,300			2,300
ADDITIONAL UNDERCUT (PER CFI)			3,150			3,150
HARD ROCK WASTE TO REPLACE BORROW					-3,290	-3,290
ADJUST ROCK SWELL				-823	-823	
ELIMINATE EARTH SHRINKAGE FACTOR				-5,465	-5,465	
EARTH WASTE TO REPLACE BORROW					-32,318	-32,318
GRAND TOTALS:		159,130	17,010	93,056	0	83,084
SAY		161,000	17,010			

PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	414+50	455+73	RT	3,717.65			
-L-	456+92	464+09	LT	666.76			
-L-	466+27	471+30	RT	565.69			
-L-	471+91	474+10	LT	315.82			
-L-	472+90	474+17	RT	102.54			
-Y2-	13+98	19+12	RT	136.85			
-Y2-	23+94	27+40	RT	252.12			
-Y2-	29+10	47+10	LT	3,419.84			
-Y2-	49+45	57+75	RT	805.97			
-Y2-	58+22	65+11	RT	649.30			
-Y2-	66+31	66+98	LT	46.76			
-Y2-	67+52	72+85	LT	501.34			
-Y2-	75+08	84+60	RT	980.65			
-Y2-	86+67	88+55	LT	39.59			
TOTAL:				12,200.88			
SAY:				12,210			

Note: Earthwork quantities are calculated by TGS Engineers. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

EST. DDE = 1,870 CUBIC YARDS
 SELECT GRANULAR MATERIAL, CLASS III = 6,670 CY
 EST. SHALLOW UNDERCUT = 1,200 CY

PER GEOTECH RECOMMENDATION, ESTIMATED 22,600 CUBIC YARDS OF UNDERCUT FOR TOE SHEAR KEY.

PAVEMENT STRUCTURE VOLUME = 4,150 CY

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.