

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

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

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Undercut	Embank. +%	Borrow	Waste
-L- 208+00.00	-L- 238+00.00	2,816		4,605	1,789	
SUBTOTAL 1		2,816		4,605	1,789	
-L- 238+00.00	-L- 268+00.00	77,236		1,713		75,523
SUBTOTAL 2		77,236		1,713		75,523
-L-268+00.00	-L- 298+00.00	43,233		13,070		30,163
-L- 277+75.00	-L- 278+75.00		280			280
-L- 279+75.00	-L- 282+75.00		820			820
-Y4- 11+21.11	-Y4- 12+72.04	9		317	308	
SUBTOTAL 3		43,242	1,100	13,387	308	31,263
-L- 298+00.00	-L- 328+00.00	33,088		16,128		16,960
SUBTOTAL 4		33,088		16,128		16,960
-L- 328+00.00	-L- 358+00.00	26,101		3,725		22,376
-L- 344+50.00	-L- 344+95.00		160			160
SUBTOTAL 5		26,101	160	3,725		22,536
-L- 358+00.00	-L- 380+50.00	32,214		5,949		26,265
Retaining Wall # 16			4,550			4,550
-L- 374+75.00	-L- 375+25.00		150			150
Retaining Wall # 18			10,200			10,200
SUBTOTAL 6		32,214	14,900	5,949		41,165
LAND BRIDGE						
-L- 382+30.00	-L- 414+50.00	45,057		2,843		42,214
Retaining Wall # 28			6,900			6,900
Retaining Wall # 29			3,400			3,400
Retaining Wall # 29A			3,850			3,850
SUBTOTAL 7		45,057	14,150	2,843		56,364
TOTALS:						
		259,754	30,310	48,350	2,097	243,811
LOSS DUE TO CLEARING & GRUBBING		-8,000				-8,000
ADDITIONAL UNDERCUT (EMBANKMENT & SUBGRADE STABILITY)			3,750			3,750
HARD ROCK TO REPLACE BORROW				-1,459		-1,459
ADJUST FOR ROCK SWELL				-365	-365	
ELIMINATE EARTH SHRINKAGE FACTOR SINCE NOW ROCK				-273	-273	
HARD ROCK TO REPLACE EMBANKMENT						
ADJUST FOR ROCK SWELL				-5,559		5,559
ELIMINATE EARTH SHRINKAGE FACTOR SINCE NOW ROCK				-4,169		4,169
APPLY ROCK SWELL FACTOR TO PERM. WASTED HARD ROCK						3,264
APPLY EARTH SHRINKAGE FACTOR TO PERM. WASTED HARD ROCK						2,448
GRAND TOTALS:		251,754	34,060	37,984	0	253,542
SAY		255,000	34,060			

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.

EST. DDE = 640 CUBIC YARDS
 SELECT GRANULAR MATERIAL, CLASS III = 34,960 CY
 EST. SHALLOW UNDERCUT = 1,500 CY

PER GEOTECH RECOMMENDATION, ESTIMATED 4,400 CUBIC YARDS OF UNDERCUT FOR TOE SHEAR KEY.

PAVEMENT STRUCTURE VOLUME = 9,880 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.

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	214+87	224+77	RT	331.33			
-L-	229+64	235+02	RT	135.01			
-L-	249+90	271+51	LT	934.64			
-L-	273+94	276+24	LT	218.62			
-L-	274+97	277+98	RT	139.88			
-L-	278+23	289+88	RT	1,493.34			
-L-	278+80	283+59	LT	213.61			
-L-	292+47	307+61	RT	839.54			
-L-	302+89	306+44	LT	92.07			
-L-	309+85	328+62	LT	1,027.53			
-L-	310+84	313+07	RT	113.74			
-L-	318+05	323+17	RT	424.63			
-L-	332+72	373+53	RT	3,597.90			
-L-	364+10	370+58	LT	186.03			
-L-	373+21	397+44	RT	2,292.05			
-L-	377+91	379+76	RT	53.06			
-L-	385+03	414+50	RT	2,449.40			
Remove Temporary Pavement							
-L-	248+59	251+78	LT	161.41			
-L-	248+94	251+00	RT	18.66			
-L-	314+85	317+74	LT	38.32			
TOTAL:				14,760.78			
SAY:				14,770			