COMPUTED BY: JDG DATE: 4/22/2022
CHECKED BY: MBC DATE: 4/27/2022

PROJECT NO.	SHEET NO.
BR-0046	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
DETOUR					
-DET- 10+00.00	-DET- 17+30.00 (BB)	19	3,731	3,712	
-DET- 19+12.00 (EB)	-DET- 25+39.61	28	5,709	5,681	
MAINLINE					
-L- 20+00.00	-L- 23+50.00 (BB)	382	575	193	
-L- 25+10.00 (EB)	-L- 27+00.00	17	1,070	1,053	
-DR- 10+15.00	-DR- 11+29.75		635	635	
SUBTOTAL:		446	11,720	11,274	
DETOUR REMOVAL					
-L- 16+06.26	-L- 23+41.85 (BB)	3,315			3,315
-L- 25+15.85 (EB)	-L- 31+50.00	4,498			4,498
-DR- 10+50.00	-DR- 11+76.23	127			127
SUBTOTAL:		7,940			7,940
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				564	
PROJECT TOTALS:		8,386	11,720	11,838	7,940
SAY:		9,000		14,000	

EST. DDE = 90 CUBIC YARDS
PER GEOTECH RECOMMENDATION, ESTIMATED 300 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

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.

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	23+00.00	23+71.00	CL	204.06			
-L-	24+93.00	25+60.00	CL	195.31			
-DET-	10+00.74	17+38	CL	1505.38			
-DET-	19+12	25+38.93	CL	1334.39			
		TOTAL:		3239.13			
		SAY:		3402			

SHOULDER BERM GUTTER SUMMARY

IN LINEAR FEET

LINE	Station	Station	LENGTH
-L- LT	22+84.00	23+25.00	41
-L- RT	21+30.00	23+25.00	195
-L- LT	25+35.00	25+81.00	46
-L- RT	25+35.00	25+81.00	46
		TOTAL:	328
		SAY:	328

GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

LINE	BEG. STA.	END STA.	LOC.	LENGTH (FT.) STRAIGHT	LENGTH (FT.) SHOP CURVED	LENGTH (FT.) DOUBLE FACED	WARRANT POINT APPR. END	WARRANT POINT TRAIL. END	"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH APPR. END	FLARE LENGTH TRAIL. END	W APPR. END	W TRAIL. END	ANCHORS GREU TL-3	ANCHORS GREU TL-2	ANCHORS TYPE B-77	ANCHORS TYPE AT-1	ANCHORS TEMP AT-1	ANCHORS TEMP GREU TL-3	ANCHORS TEMP TYPE III	IMP. ATTEN. TYPE 350 EA	IMP. ATTEN. TYPE 350 G	IMP. ATTEN. TYPE 350 NG	REMOVE EXISTING GUARDRAIL	REMARKS
-L-	22+33.13	23+50.00	LT	116.87				23+50.00	8'	11'					1		1									
-L-	25+10.00	26+24.50	LT	105.54	36.2'		25+10.00		8'	11'							1	1								
-L-	20+70.63	23+50.00	RT	279.43			23+50.00		8'	11'					1		1									
-L-	25+10.00	26+30.47	RT	120.50				25+10.00	8'	11'					1		1									
		SUB-TOTALS		622.34	36.2'										3		4	1								
DEDUCTION FOR ANCHOR UNITS																										
		GREU TL-3 @ 50'	3	-150.00																						
		TYPE B-77 @ 22.875'	4	-91.50																						
		AT-1 @ 6.25'	1	-6.25																						
		PROJECT TOTAL		374.59	36.2'										3		4	1								
		SAY		375.00	37.50																					
ADDITIONAL GUARDRAIL POSTS = 5 EA																										
TEMPORARY GUARDRAIL SUMMARY																										
-DET-	16+50.69	17+38.00	LT	87.50					4'	7'										1	1					
-DET-	19+12.00	20+17.43	LT	98.50	43.9'				4'	7'									1		1					
-DET-	15+25.34	17+38.00	RT	211.60					4'	7'										1	1					
-DET-	19+12.00	19+98.05	RT	85.60					4'	7'										1	1					
		SUB-TOTALS		483.20	43.86														1	3	4					
DEDUCTION FOR ANCHOR UNITS																										
		GREU TL-3 @ 50'	3	-150.00																						
		TYPE-III @ 18.75'	4	-75.00																						
		AT-1 @ 6.25'	1	-6.25																						
		PROJECT TOTAL		251.95	43.86														1	3	4					
		SAY		262.50	50.00																					