

COMPUTED BY: KDA    DATE: 9/30/22 CHECKED BY: SEC    DATE: 10/10/22	PROJECT NO. BR-0094	SHEET NO. 3B-1
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## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### SUMMARY OF EARTHWORK

Station to Station	Uncl. Exc. C.Y.	Embank. +% C.Y.	Borrow C.Y.	Waste C.Y.
SUMMARY NO. 1				
-L- STA. 15+50 TO 19+26.70 (BB)	137	1,759	1,622	
-L- STA. 21+48.70 (EB) TO 26+00	17	2,285	2,268	
SUMMARY NO. 1 TOTAL	154	4,044	3,890	
SUMMARY NO. 2				
-RPA- STA. 15+25.00 TO 16+17.59	8	31	23	
-RPB- STA. 10+13.77 TO 11+25.00	185	58		127
-RPC- STA. 10+14.14 TO 12+00.00	9	232	223	
-RPD- STA. 12+00.00 TO 13+94.40	18	334	316	
SUMMARY NO. 2 TOTAL	220	655	562	127
TOTAL	374	4,699	4,452	127
Shoulder Borrow		168	168	
Loss due to Clearing & Grubbing	-100		100	
Waste in Lieu Of Borrow			-127	-127
PROJECT TOTAL	274	4,867	4,593	
Est 5% To Replace Topsoil on Borrow Pit			230	
GRAND TOTAL	274	4,867	4,823	
SAY	300	4,900	4,900	

EST DDE = 2 CY  
 TOTAL SHALLOW UNDERCUT = 200 CUBIC YARDS  
 EST. CLASS IV SUBGRADE STABILIZATION = 400 TONS  
 PER GEOTECH RECOMMENDATION, ESTIMATED 300 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.

### SUMMARY OF ASPHALT PAVEMENT REMOVAL

Station to Station	LOC LT/RT/CL	Asphalt Removal SQ. YDS.
-L- STA. 18+65.48 TO STA. 19+15.28	CL	136.68
-L- STA. 21+56.36 TO STA. 22+06.36	CL	140.14
PROJECT TOTAL		276.82
	SAY	290

### SUMMARY OF WOVEN WIRE FENCE

LINE	STATION TO STATION	SIDE	FABRIC (FT.)	4" POST (EA)	5" POST (EA)
-RPC-	11+08.85 TO 14+19.03	LT	310.26	20	4
-RPD-	10+61.05 TO 13+83.65	LT	372.60	24	4
PROJECT TOTAL			682.86	44	8
	SAY		690	45	8

### SUMMARY OF ASPHALT PAVEMENT BREAKING

Station to Station	LOC LT/RT/CL	Asphalt Breaking SQ. YDS.
-L- STA. 17+50.00 TO STA. 18+65.48	CL	307.46
-L- STA. 22+06.36 TO STA. 23+25.00	CL	316.37
PROJECT TOTAL		623.83
	SAY	640

### SUMMARY OF SHOULDER BERM GUTTER

Station to Station	LOC LT/RT/CL	Linear Feet
-L- STA. 21+33.29 TO STA. 21+70.00	LT	36.71
-L- STA. 21+64.11 TO STA. 22+00.00	RT	35.89
PROJECT TOTAL		72.60
	SAY	73

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.

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, REMOVAL OF EXISTING PAVEMENT AND BREAKING OF EXISTING PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

## GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL  
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER 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	BEGIN STA.	END STA.	LOC.	LENGTH (FT.)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS			TEMPORARY ANCHORS			IMP. ATTEN. TYPE 350			REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPR. END	TRAIL. END	APPR. END	TRAIL. END	GREU TL-3	TYPE B-77	CAT-1	GREU TL-3	CAT-1	EA	G	NG			
-L-	17+50.00	19+11.21	LT	161.21'				18+50.00	8.0'	11.0'		50.00'		1.00'	1	1								79'	FILL WARRANT
-L-	21+33.29	23+15.62	LT	159.68'	76.57'		21+34.60		8.0'	11.0'						1	1							104'	BRIDGE WARRANT
-L-	17+72.81	19+42.19	RT	136.50'	94.26'		19+43.27		8.0'	11.0'							1	1						104'	BRIDGE WARRANT
-L-	21+64.11	23+25.00	RT	159.57'			22+50.00		8.0'	11.0'		50.00'		1.00'	1	1								80'	FILL WARRANT
-Y-	14+01.00	16+76.00	LT	275.00'														1	1					275'	EXIST. GUARDRAIL TO BE REMOVED ALONG US 220 MEDIAN
-Y-	13+24.00	15+98.00	RT	275.00'														1	1					275'	EXIST. GUARDRAIL TO BE REMOVED ALONG US 220 MEDIAN
-Y-			LT																					142'	EXISTING GUARDRAIL TO BE REMOVED ALONG US 220
-Y-			RT																					143'	EXISTING GUARDRAIL TO BE REMOVED ALONG US 220
SUB-TOTAL				1166.96'	170.82'										2	4	2		2	2				1202'	SUB-TOTAL
DEDUCTION FOR ANCHOR UNITS																									
				GREU TL-3 @ 50'	2	-100.00'																			
				B-77 @ 22.875'	4	-91.50'																			
				CAT-1 @ 6.25'	2	-12.50'																			
PROJECT TOTAL				962.96'	170.82'										2	4	2		2	2				1202'	PROJECT TOTAL
SAY				975.00'	171.00'																				

ADDITIONAL GUARDRAIL POSTS = 5 EA