

COMPUTED BY: AJF DATE: 8/17/2016
 CHECKED BY: KDA DATE: 9/20/2016

PROJECT NO. B-5548 SHEET NO. 3B-1

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

CUBIC YARDS

Station to Station	Uncl. Exc. C.Y.	Embank. +% C.Y.	Borrow C.Y.	Waste C.Y.
-L- 11+00.00 TO 18+64.21 (Begin Bridge)	4,546	31,971	27,425	
Bridge Approach End Bent		298	298	
SUBTOTAL	4,546	32,269	27,723	
-L- 30+45.79 (End Bridge) TO 47+50.00	13,065	14,896	1,831	
Bridge Trailing End Bent		305	301	
-Y1- 10+12.00 TO 12+00.00	102	62		40
SUBTOTAL	13,167	15,263	2,132	40
TOTAL	17,713	47,532	29,855	40
SHOULDER MATERIAL			2,887	
Loss Due To Clearing & Grubbing	-600		600	
Waste In Lieu Of Borrow			-40	-40
PROJECT TOTAL	17,113	47,532	33,302	
Est. 5% To Replace Topsoil at Borrow Pit			1,665	
GRAND TOTAL	17,113		34,967	
SAY	17,450		35,500	

ESTIMATED UNDERCUT = 500 CY
 ESTIMATED SHALLOW UNDERCUT = 500 CY
 ESTIMATED SELECT GRANULAR MATERIAL = 500 CY

SUMMARY OF ASPHALT PAVEMENT
 REMOVAL

Station to Station	LOC LT/RT/CL	Asphalt Removal SQ. YDS.
-L- 12+74.00 TO 29+06.00	LT	3,498
-L- 30+26.00 TO 42+50.00	LT	3,328
-L- 42+92.00 TO 45+84.00	LT	223
-Y1- 10+10.00 TO 10+70.00	RT	259
-Y1- 10+80.00 TO 12+00.00	RT	92
PROJECT TOTAL		7,400
SAY		7,500

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

GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF TRAVEL LANE TO FACE OF GUARDRAIL

TOTAL

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.)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS				IMPACT ATTEN. TYPE 350			REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	WOOD RUB RAIL	APPR. END	TRAIL. END			APPR. END	TRAIL. END	APPR. END	TRAIL. END	GRAU 350 TL-3	TYPE B-77	EA	G	NG				
-L-	25+45.46	28+64.21	RT	318.75'			26+00.00	28+64.21	10'	13'	100'		2'			1	1					560'	BRIDGE WARRANT / FILL WARRANT
-L-	27+20.46	28+64.21	LT	143.75'				28+64.21	10'	13'	75'		1.5'			1	1					560'	BRIDGE WARRANT
-L-	30+45.79	33+89.54	RT	343.75'			30+45.79	33+50.00	10'	13'	100'		2'			1	1					470'	BRIDGE WARRANT / FILL WARRANT
-L-	30+45.79	33+89.54	LT	343.75'			33+50.00	30+45.79	10'	13'	100'		2'			1	1					330'	BRIDGE WARRANT / FILL WARRANT
SUB-TOTALS				1150'												4	4					1920'	
DEDUCTION FOR ANCHOR UNITS																							
				(4 GRAU TL-3 @ 50')																			
				(4 TYPE B-77 @ 18.75')																			
PROJECT TOTAL				875'												4	4						1920'
SAY				950'																			

ADDITIONAL GUARDRAIL POSTS = 10 EA