

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 SUMMARY OF EARTHWORK
 IN CUBIC YARDS**

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
SUMMARY NO. I					
-L- STA. 14+50.00	-L- STA. 16+55.88 (BB)	283	337	54	
SUMMARY NO. I TOTALS		283	337	54	
SUMMARY NO. II					
-L- STA. 17+58.13 (EB)	-L- STA. 19+00.00	22	236	214	
-Y- STA. 10+11.00	-Y- STA. 11+66.46	15	498	483	
SUMMARY NO. II TOTALS		37	734	697	
SUMMARY TOTALS					
LOSS DUE TO CLEARING & GRUBBING		-40		40	
PROJECT TOTALS:		280	1071	791	
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT				40	
GRAND TOTALS:					
SAY:		300	1071	831	
EST. UNDERCUT CONTINGENCY = 450 CY					
SELECT GRANULAR MATERIAL = 200 CY					
GEOTEXTILE FOR SOIL STABILIZATION = 300 SY					

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.

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".

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

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS					IMPACT ATTENUATOR TYPE 350		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS					
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GRAU 350	TYPE III	AT-1	G	NG											
-L-	STA. 15+80.88	STA. 16+55.88	LT.	75				STA. 16+55.88	4.25	9		56.25																		
-L-	STA. 15+80.88	STA. 16+55.88	RT.	75			STA. 15+80.88		4.25	9	56.25		1.25																	
-L-	STA. 17+58.13	STA. 18+33.13	LT.	75			STA. 18+33.13		4.25	9	56.25																			
-L-	STA. 17+58.13	STA. 18+08.13	RT.	43.75	31.25			STA. 17+58.13	4.25	9																				
SUB-TOTAL				268.75	31.25																									
LESS DEDUCTIONS FOR ANCHORS																														
GRAU-350 3@50 =				-150																										
AT-1 1@6.25 =				-75	-6.25																									
TYPE III 4@18.75 =																														
PROJECT TOTAL				43.75	25.00																									
SAY				75	37.5																									
ADDITIONAL GUARDRAIL POSTS = 5 EA.																														

**PAVEMENT REMOVAL SUMMARY
 IN SQUARE YARDS**

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	14+50.00	16+76.00	CL	537.34			
-L-	17+42.81	19+00.00	CL	357.53			
-Y-	10+10.56	10+70.46	RT	115.10			
TOTAL:				1009.97			
SAY:				1050			

SHOULDER BERM GUTTER/CURB SUMMARY

LINE	Station	Station	LENGTH
-L- LT	17+69.13	17+84.00	14.87
-L- RT	17+69.13	17+84.00	14.87
TOTAL:			29.74
SAY:			30