

### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

#### SUMMARY OF EARTHWORK IN CUBIC YARDS

\*\*EARTHWORK QUANTITIES INCLUDE SPECIAL GRADING AS PROVIDED BY HYDRAULICS UNIT

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
<b>SUMMARY NO. 1**</b>					
-L- 12+00.00	-L- 16+68.50 (BB)	1457	734		723
<b>TOTAL SUMMARY NO. 1</b>		1457	734		723
<b>SUMMARY NO. 2</b>					
-L- 17+73.50 (EB)	-L- 20+25.00	258	185		73
<b>TOTAL SUMMARY NO. 2</b>		258	185		73
<b>SUMMARY TOTALS</b>					
		1715	919		796
LOSS DUE TO CLEARING & GRUBBING		-100			-100
<b>PROJECT TOTALS</b>					
		1615	919		696
<b>PROJECT GRAND TOTALS</b>					
<b>SAY</b>		1615	919		696
EST. DDE = 295 CY					
EST. GRADE POINT UNDERCUT = 100 CY					
EST. UNDERCUT CONTINGENCY = 300 CY					
SELECT GRANULAR MATERIAL = 200 CY					
GEOTEXTILE FOR SOIL STABILIZATION = 300 CY					

Note: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, Removal of Asphalt 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.

"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

### GUARDRAIL SUMMARY

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	G	NG												
-L-	15+85.13	16+72.63	LT	87.5				16+72.63	5.417	9	68.75	68.75																		
-L-	15+76.87	16+64.37	RT	87.5				16+64.37	5.417	9	68.75		1.375	1.375																
-L-	17+77.63	18+52.63	LT	75				17+77.63	5.417	9	56.25		1.125	1.125																
-L-	17+69.37	18+44.37	RT	75				17+69.37	5.417	9		56.25		1.125	1.125															
TOTALS				325																										
LESS DEDUCTION FOR ANCHORS																														
GRAU-350 4 @ 50' =				-200																										
TYPE-III 4 @ 18.75' =				-75																										
PROJECT TOTAL				50																										
ADDITIONAL GUARDRAIL POST = 5 EA.																														
SAY				75																										

#### PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	12+75.00	17+06.58	LT	753.24			
-L-	17+76.31	20+25.00	LT	272.66			
TOTAL:				1025.90			
SAY:				1030			

#### SHOULDER BERM GUTTER SUMMARY

LINE	Station	Station	LENGTH
-L- LT	16+35	16+61.05	26.1
-L- RT	16+35	16+54.03	19
TOTAL:			45.1
SAY:			50