

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK  
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +/-	BORROW	WASTE
-DET- 11+18.79	-DET- 15+20 +/-	17	3,793	3,776	
-DET- 16+10 +/-	-DET- 19+34.87	41	2,085	2,044	
PHASE 1 (DET) SUBTOTAL:		58	5,878	5,820	
-L- 10+00.00	-L- 15+06 +/-	27	3,735	3,708	
-L- 16+16 +/-	-L- 20+40.14	4	1,621	1,617	
PHASE 2 (L) SUBTOTAL:		31	5,356	5,325	
-L- 12+00.00	-L- 15+06.00	1,632			1,632
-L- 16+16.00	-L- 18+50.00	1,246			1,246
PHASE 3 (DET REMOVAL) SUBTOTAL:		2,878			2,878
TOTALS:					
PROJECT TOTAL:		2,967	11,234	11,145	2,878
EST 5% TO REPLACE TOP SOIL ON BORROW PIT				557	
GRAND TOTAL:		2,967	11,234	11,702	2,878
SAY:		3,000		11,800	

SHOULDER BERM GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LF
-L-	16+30.16	16+52.00	LT	22
-DET-	16+10.37	16+40.11	LT	30
TOTAL:				52
SAY:				57

REMOVAL OF EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD <sup>2</sup>
-L-	12+48.00	15+29.78	CL	93.55
-L-	15+98.14	17+85.00	CL	60.94
-DET-	11+18.79	15+20 +/-	CL	626.16
-DET-	16+10 +/-	19+44.91	CL	509.03
TOTAL:				1,289.68
SAY:				1,350

PER GEOTECH RECOMMENDATION: EST. SELECT GRANULAR MATERIAL: 300 CY  
 PER GEOTECH RECOMMENDATION: EST. UNDERCUT EXCAVATION: 300 CY

NOTE:  
 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".

THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

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

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH		WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH				ANCHORS								TEMP. CRASH CUSHIONS			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS										
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END			TRAILING END	APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	B-77	GREU 350	M-350	TEMP. W-BEAM RETROFIT	TYPE III	VI MOD	GREU TL-3	AT-1	EA					G	NG								
-L-	13+56.41	15+06 +/- (BR.)	LEFT	147.875'			15+06 +/- (BR.)	4.00'	7.00'		100'		2.0'																									
-L-	11+96.39	15+06 +/- (BR.)	RIGHT	310.375'			15+06 +/- (BR.)	4.00'	7.00'	150'		3.0'																										
-L-	16+16 +/- (BR.)	17+62.71	RIGHT	147.875'			16+16 +/- (BR.)	4.00'	7.00'		100'		2.0'																									
-L-	16+16 +/- (BR.)	19+30.01	LEFT	310.375'			16+16 +/- (BR.)	4.00'	7.00'	150'		3.0'																										
SUBTOTAL				916.50'																																		
LESS ANCHOR DEDUCTIONS:																																						
GREU TL-3				4 @ 50.00' =																																		
B-77				4 @ 22.875' =																																		
ANCHOR DEDUCTION TOTAL:																																						
PROJECT TOTAL																																						
SAY																																						
TEMPORARY GUARDRAIL																																						
-DET-	14+39.13	15+20 +/- (BR.)	LT (SEE DET PLANS)	81.25'			15+20 +/- (BR.)	VARIES 4.00'-5.50'	6.00'-7.50'		100'		1.0'																									
-DET-	14+01.63	15+20 +/- (BR.)	RT (SEE DET PLANS)	118.75'			15+20 +/- (BR.)	VARIES 4.00'-5.75'	6.00'-7.75'		100'		1.0'																									
-DET-	16+10 +/- (BR.)	18+04.19	LT (SEE DET PLANS)	193.75'			16+10 +/- (BR.)	VARIES 4.00'-7.00'	6.00'-9.00'		100'		1.0'																									
-DET-	16+10 +/- (BR.)	16+91.62	RT (SEE DET PLANS)	81.25'			16+10 +/- (BR.)	VARIES 4.00'-5.25'	6.00'-7.25'		100'		1.0'																									
SUBTOTAL				475.00'																																		
LESS ANCHOR DEDUCTIONS:																																						
TEMP GREU TL-3				4 @ 50.00' =																																		
TEMP TYPE III				4 @ 18.75' =																																		
ANCHOR DEDUCTION TOTAL:																																						
PROJECT TOTAL																																						
SAY																																						
ADDITIONAL GUARDRAIL POST TOTAL =																																						

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