

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

GUARDRAIL SUMMARY (LF)

"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 SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS						IMPACT ATTENUATOR TYPE 350			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	GREU TL-3	III	B-77	TEMP GREU TL-3	TEMP B-77											EA	G	NG	
-L-	15+58.88	17+03.50	LT	150.00'				17+03.50	8'	11'			1.00																76'		
-L-	17+88.50	22+00.00	LT	412.50'				17+88.50	8'	11'	50.00'		1.00																77'		
-L-	13+96.38	17+03.50	RT	312.50'				17+03.50	8'	11'	50.00'		1.00																78'		
-L-	17+88.50	19+33.12	RT	150.00'				17+88.50	8'	11'			1.00																75'		
			SUBTOTALS	1,025.00'																											
			TYPE B-77, 4@22.875'	-91.50'																											
			GREU TL-3, 4@50.00'	-200.00'																											
			PROJECT TOTALS	733.50'																										306'	
			SAY	737.50'																										306'	
			ADDITIONAL GUARDRAIL POSTS = 5 EA																												
TEMPORARY GUARDRAIL																															
-LDET-	15+85.61	16+70.50	LT	87.50'				16+70.50	3.5'	5.5'			1.00																		
-LDET-	17+45.50	19+35.60	LT	200.00'				17+45.50	3.5'	5.5'	50.00'		1.00																		
-LDET-	13+00.00	16+70.50	RT	375.00'				16+70.50	6'	8'	50.00'		1.00																		
-LDET-	17+45.50	23+50.00	RT	612.50'				17+45.50	6'	8'			1.00																		
			SUBTOTALS	1,275.00'																											
			TYPE B-77, 4@22.875'	-91.50'																											
			GREU TL-3, 4@50.00'	-200.00'																											
			PROJECT TOTALS	983.50'																											
			SAY	987.50'																											
			ADDITIONAL GUARDRAIL POSTS = 5 EA																												

SUMMARY OF EARTHWORK (CY)

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-LDET- 10+51.36 to 16+70.50	22		3,334	3,311	
-LDET- 17+45.50 to 23+59.32	19		3,444	3,426	
SUBTOTAL	41		6,778	6,737	
-L 12+00.00 to 17+03.50	49		2,832	2,783	
-L 17+88.50 to 23+50.00	127		1,919	1,792	
SUBTOTAL	176		4,751	4,575	
DETOUR REMOVAL					
-L 12+00.00 to 17+03.50	1,747				1,747
-L 17+88.50 to 23+50.00	2,121				2,121
SUBTOTAL	3,868				3,868
TOTAL	4,085		11,529	11,312	3,868
ESTIMATED SHOULDER MATERIAL			262	262	
PROJECT TOTAL	4,085		11,791	11,574	3,868
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				578	
GRAND TOTAL	4,085		11,791	12,152	3,868
SAY	4,100			12,200	

EST. DDE = 1,445 CY
 UNDERCUT (CONTINGENCY) = 300 CY
 SELECT GRANULAR MATERIAL (CONTINGENCY) = 600 CY

NOTE: Earthwork quantities are calculated by the Engineer. 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, Removal of Existing Asphalt Pavement, and Breaking of Existing Asphalt Pavement will be paid for at the contract lump sum price for "Grading."

REMOVAL OF EXISTING ASPHALT PAVEMENT SUMMARY (SY)

LINE	STATION - STATION	LOCATION	REMOVAL (SY)
-L-	14+23.00 to 14+43.49	CL	58.53
-L-	20+42.09 to 21+04.35	CL	181.93
-LDET-	10+51.41 to 17+08.50	CL	1,435.38
-LDET-	17+88.50 to 23+59.00	CL	1,425.07
GRAND TOTAL			3,100.91
SAY			3,110

BREAKING OF EXISTING ASPHALT PAVEMENT SUMMARY (SY)

LINE	STATION - STATION	LOCATION	BREAKING (SY)
-L-	14+43.49 to 17+03.50	CL	733.02
-L-	17+88.50 to 20+42.09	CL	721.07
GRAND TOTAL			1,454.08
SAY			1,460

SUMMARY OF SHOULDER BERM GUTTER (LF)

LINE	STATION	STATION	LENGTH (LF)
-L- LT	16+73.00	16+89.33	17
-L- RT	16+73.00	16+89.33	17
-L- LT	18+02.67	18+20.00	18
-L- RT	18+02.67	18+20.00	18
-LDET- LT	16+41.00	16+70.50	30
-LDET- RT	16+41.00	16+70.50	30
		GRAND TOTAL	130
		SAY	130