PROJECT REFERENCE NO.	SHEET NO.
B-3868	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

EXPRESSWAY GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH FT
-Y1-	10+50.00	20+25.00	LT	948
			TOTAL	948
			SAY	950

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH FT
-L-	16+62.50	16+66.83	LT	4.33
-L-	15+44.90	16+66.83	RT	121.93
-L-	20+00.17	20+02.50	LT	2.33
-L-	20+00.17	20+08.00	RT	7.83
			TOTAL	136.42
			SAY	137

REMOVAL OF EXISTING ASPHALT PAVEMENT SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SQUARE YARD
-L-	11+50.00	16+81.00	CL	1,602.77
-Y1-	10+50.00	18+25.00	CL	2,465.23
-Y1- TEMP PAVT	10+00.00	14+50.00	CL	450.00
-Y1- TEMP PAVT	18+00.00	20+00.00	CL	88.89
			TOTAL	4,606.89
			SAY	4,700

SUMMARY OF EARTHWORK

SURVEY LINE	STATION	STATION	UNCL. EXCAV.	EMBANK. +15%	BORROW	WASTE
-L-	10+50.00	17+00.00	0	8,670	8,670	
-Y-	11+00.00	13+00.00	2	370	368	
		SUBTOTAL NO. 1	2	9,040	9,038	
-L-	19+50.00	22+00.00	0	6,341	6,341	
-Y1- PHASE I	10+00.00	21+50.00	14,734	138		14,596
-DRW1-	10+00.00	12+00.00	59	501	442	
		SUBTOTAL NO. 2	14,793	6,980	6,783	14,596
-DRW2-	10+00.00	12+00.00	1,240	76		1,164
-Y1- PHASE II	10+00.00	21+50.00	2,185	585		1,600
-DRW2- on -Y1-	20+00.00		273			273
		SUBTOTAL NO. 3	3,698	661		3,037
-Y1- TEMP.	10+00.00	14+50.00	72	1,249	1,177	
-Y1- TEMP.	18+00.00	20+00.00	33	28		5
		SUBTOTAL NO. 4	105	1,277	1,177	5
		PROJECT SUBTOTALS	18,598	17,958	16,998	17,638
LOSS DUE TO CLEARING & GRUBBING			-100		100	
WASTE IN LIEU OF BORROW					-7,983	-7,983
ADJUST FOR ROCK WASTE SWELL						1,931
ADJUST FOR UNCOMPACTED ROCK WASTE						1,738
		PROJECT TOTALS	18,498	17,958	9,115	13,324
REPLACE TOPSOIL IN BORROW PIT					456	
		GRAND TOTALS	18,498	17,958	9,571	13,324
		SAY	18,500		9,600	

DRAINAGE DITCH EXCAVATION = 300 CU YD
UNDERCUT EXCAVATION = 200 CU YD
SHALLOW UNDERCUT EXCAVATION = 100 CU YD
CLASS IV SUBGRADE STABILATION = 160 TONS
SELECT GRANULAR MATERIAL = 200 CU YD

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 & Grubbing, Removal of Existing Pavement will be paid for at the lump sum price for "Grading".

GUARDRAIL SUMMARY

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
"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.

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	TEMPORARY GUARDRAIL	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TEMP. GRAU 350	TEMP. CAT-1	M-350	AT-1	CAT-1	GRAU 350	TL-2	TYPE III	B-77	EA	G	NG				
-L-	14+77.18	16+81.00	RT	190.51			16+81.00		4'	9'	50'									1		1								
-L- /-DRW1-	19+86.00	10+51.80	RT	133.32	35.9				4'	9'								1				1								
-Y- /-L-	12+65.21	16+81.00	LT	183.47	35.3				4'	9'								1				1					406.94			
-L-	19+86.00	21+48.56	LT	158.77			16+81.05		4'	9'	50'									1		1					226.08			
-Y1-	10+42.64	14+12.95	RT	373.82																2										
-Y1- TEMP PAVT	10+00.00	14+50.00	RT			450.00									2															
															2			2		4		4					633.02			
			PROJECT SUBTOTALS	1,039.89	71.2	TEMPORARY GUARDRAIL SUBTOTALS:		450.00										GUARDRAIL ANCHOR DEDUCTIONS												
		DEDUCTIONS FOR	GUARDRAIL ANCHORS	-287.50		DEDUCTIONS FOR TEMPORARY ANCHORS:		-100.00									GRAU 350	4	EA @	50.00	FT =	200.00								
																	AT-1	2	EA @	6.25	FT =	12.50								
			PROJECT TOTALS	752.39	71.2		PROJECT TOTALS	350.00									TYPE III	4	EA @	18.75	FT =	75.00								
			SAY	762.50	75.00		SAY	350.00								TEMP.	GRAU 350	2	EA @	50.00	FT =	100.00								
		ADDITIONAL	GUARDRAIL POSTS =	5													DEDUCTIONS FOR GUARDRAIL ANCHORS = 287.50													
																	DEDUCTIONS FOR TEMPORARY ANCHORS = 100.00													