PROJECT REFERENCE NO.	SHEET NO.
R-2566BA	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
(IN CUBIC YARDS)

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
–L– LT. 151+99.34	–L– LT. 162+74.00	72,363	343	0	72,020
–L– LT. 162+74.00	–L– LT. 163+32.97	6	3	0	3
–Y5– 19+00.00	–Y5REV– 21+95.89	453	321	0	132
–L– LT. 165+89.00	–L– LT. 174+64.36	1,009	153	0	856
SUBTOTALS:		73,831	820	0	73,011
–L– RT. 151+99.39	–L– LT. 162+62.38	540	296	0	244
–L– RT. 165+44.72	–L– RT. 166+40.00	2,624	35	0	2,589
–Y4– 10+00.00	–Y4– 12+82.76	24,495	0	0	24,495
–L– RT. 166+40.00	–L– RT. 174+64.36	47,145	634	0	46,511
SUBTOTALS:		74,804	965	0	73,839
TOTALS:		148,635	1,785	0	146,850
LOSS DUE TO CLEARING AND GRUBBING		–70	0	0	–70
PROJECT TOTALS:		148,565	1,785	0	146,780
GRAND TOTALS:		148,565	1,785	0	146,780
SAY:		156,000			

DDE = 196 CY
SHALLOW UNDERCUT = 100 CY
CONTINGENCY UNDERCUT = 450 CY
PAVEMENT STRUCTURE VOL. = 5,459
SHOULDER BORROW = 550 CY

TEMPORARY SHORING SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	AVERAGE HEIGHT	MAXIMUM HEIGHT	SF
–L–	162+59 9.5' RT.	163+55 5.4' RT.	CL	9.9 FT.	14.0 FT.	950.40
–L–	165+33 5.5; RT.	165+91 5.5' RT.	CL	7.1 FT.	12.2 FT.	411.80
–L–	162+57 11.5' RT.	162+87 11.5' RT.	RT	7.0 FT.	11.9 FT.	210.00
–L–	165+60 11.5' RT.	165+92 11.5' RT.	CL	6.9 FT.	12.2 FT.	220.80
			TOTAL:			1,793.00
			SAY:			1,800.00

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	152+00	152+92	LT	13.35
–L–	153+68	156+97	CL	108.44
–L–	152+00	160+25	RT	887.99
–L–	160+87	162+10	CL	89.93
–L–	163+00	165+83	CL	212.89
–L–	165+81	166+05	CL	37.66
–L–	165+16	174+63	LT	1074.86
–L–	174+20	174+63	RT	5.31
–Y5–	18+35	18+50	RT	1.67
–Y5–	20+36	21+30	RT	10.44
			TOTAL:	2,320.75
			SAY:	2,400.00

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
–L– RT	159+46.92	162+37.00	290.08
–L– RT	165+70.00	165+95.00	25.00
		TOTAL:	315.08
		SAY:	330.00

1'–6" CURB & GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
–L– MED. LT.	153+69	154+46	77
–L– MED. LT.	153+69	162+11	842
		TOTAL:	919
		SAY:	920

2'–9" CURB & GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
–L– MED. RT.	154+46	154+71	25
–L– MED. LT./RT.	154+71	162+05	734
–L– MED. RT.	162+05	162+09	4
		TOTAL:	763
		SAY:	770

Note: "Quantities are approximate only. The Resident Engineer will re–cross–section the work accurately when the project is staked out. These cross–section notes will be used in computing the final quantities for which the contractor will be paid."

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.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON–GATING IMPACT ATTENUATOR TYPE 350

TEMPORARY GUARDRAIL SUMMARY

SEE SHEET 2C–4 FOR TEMPORARY ANCHOR UNIT, TYPE W–BEAM
SEE SHEET 2C–5 FOR TEMPORARY GUARDRAIL ANCHOR UNIT, TYPE B–77
SEE SHEET 2C–6 FOR TEMPORAY ANCHOR UNIT, TYPE III MODIFIED FOR POST AND BEAM RAIL

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	APPROACH END	TRAILING END	TEMP. TYPE III MOD.	TEMP. AT–1	TEMP. TL–2	TEMP. TYPE B–77	TEMP TYPE W–BEAM	CAT–1	VI MOD	BIC	AT–1	EA	G	NG				
–L–	165+75.86	166+26.01	LT.	31.44'	32.48'										1	1														SEE TMP. PHASE I, STEP 3 FOR LOCATION
–L–	166+48.13	166+67.19	LT.		31.41'											1														SEE TMP. PHASE I, STEP 3 FOR LOCATION REMOVE TEMP. GR AS NEEDED, (APPROX. 82.17'), AND REPLACE WITH SHOP CURVED GR
–Y4– /–L–	10+18.42	166+67.19	LT./RT.	117.82'													1	1												SEE TMP. PHASE 1, STEP 2 FOR LOCATION.
–L–	163+23.18		RT.																1											SEE TMP. PHASE 1, STEP 2 FOR LOCATION.
TOTAL:				149.26'	63.89'										1	2	1	1	1											
		1 TEMP. TYPE III & 18.75'		–18.75'																										
		2 TEMP. AT–1 & 6.25'			–12.50'																									
		1 TEMP. TL–2 & 25.00'		–25.00'																										
		1 TEMP. TYPE B–77 & 22.875'		–22.875'																										
GRAND TOTAL:				82.635'	51.39'										1	2	1	1	1											
SAY:				87.50'	56.25'										1	2	1	1	1											