COMPUTED BY: AMP DATE:08.23.04/12.23.04
CHECKED BY: MTM DATE:08.23.04/12.23.04

PROJECT REFERENCE NO.	SHEET NO.
B-4007	3-A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
SUMMARY #1					
–L– Sta. 13+00.00 (Beg. Const.) TO 16+21.00 (Beg. Bridge)	8		388	380	0
–L– Sta. 17+86.00 (End Bridge) TO 21+75.00 (End Const.)	3,677		735	0	2,942
SUMMARY #1 SUBTOTAL	3,685		1,123	380	2,942
SUMMARY #2					
–DET– Sta. 10+70.00 (Beg. Const.) TO 12+88.00 (Beg. Bridge)	6		4,438	4,432	0
–DET– Sta. 14+11.00 (End Bridge) TO 19+87.57 (End Const.)	779		5,177	4,398	0
SUMMARY #2 SUBTOTAL	785		9,615	8,830	0
PROJECT SUBTOTAL	4,470		10,738	9,210	2,942
DETOUR REMOVAL	9,615				9,615
EST. LOSS DUE TO CLEARING & GRUBBING	–10			10	
WASTE TO REPLACE BORROW				–2,942	–2,942
PROJECT SUBTOTAL	14,075		10,738	6,278	9,615
EST. 5% FOR REPLACING TOPSOIL ON BORROW PIT				314	
PROJECT GRAND TOTAL	14,075			6,592	9,615
SAY	14,400			6,750	

GRADE POINTS UNDERCUT = 100 CY (CONTINGENCY)
SELECT MATERIAL CLASS II OR III= 500 CY CONTINGENCY.
CLASS IV SUBGRADE STABILIZATION MATERIAL= 500 TONS CONTINGENCY.

APPROXIMATE QUANTITIES ONLY. BORROW EXCAVATION, FINE GRADING CLEARING AND GRUBBING, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

PAVEMENT REMOVAL SUMMARY

LINE	BEGIN STATION	END STATION	CUBIC YARDS
DET	10+70	12+88	434.3
DET	14+11	21+30	1446.8
–L–	16+09	16+37	72.4
–L–	17+72	17+98	67.4
		SUBTOTAL=	2,020.90
		SAY=	2,070.00

"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.

GUARDRAIL SUMMARY

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: STRAIGHT	LENGTH: SHOP CURVED	LENGTH: DOUBLE FACED	WARRANT POINT: APPROACH END	WARRANT POINT: TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH: APPROACH END	FLARE LENGTH: TRAILING END	W: APPROACH END	W: TRAILING END	ANCHORS: III MOD	III	GRAU 350	B-77	XIII	CAT-1	VI MOD	BIC	AT-1	IMPACT ATTENUATOR TYPE 350: EA	G	NG	SINGLE FACED CONC. BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
–L–	13+50.00	16+13.62	LT.																					1		1	270	75		IMPACT ATTENUATOR
–L–	14+44.75	16+01.00	RT.	156.25			16+01.00		3–4.75	6–7.75	87.5		1.75			1	1											200		BRIDGE WARRANT
–L–	18+05.50	18+99.25	LT.	93.75				18+05.50								1	1											50		BRIDGE WARRANT, TYPE III ANCHOR UNIT
–L–	17+88.25	18+32.00	RT.	37.50	25.00		17+88.25		3–3.5	6–6.5		25.0		0.5		1							1					40		BRIDGE WARRANT, TYPE III ANCHOR UNIT
–L–	10+70.00	13+70.00	RT.	300.00					3	6							1											300		TIE TO EXIST GR @ –L– STA 10+69.80
			SUB-TOTALS:	587.50	25.00											3	3						1	1		1	270	665		
LESS ANCHOR DEDUCTIONS:			GRAU 350 3 @ 50	150.00																										
			TYPE III 3 @ 18.75	56.25																										
			AT-1 1 @ 6.25	6.25																										
			ANCHOR TOTAL DEDUCTION:	212.50																										
			GRAND TOTALS:	375.00																										
			SAY:	400.00	37.5	ADDITIONAL GUARDRAIL POSTS: 5																	1			270	665		
TEMPORARY GUARDRAIL																														
–DET–	10+70.00	12+76.25	RT.	206.25			12+76.25		3–6.75	6–9.75	187.5		3.75			1														BRIDGE WARRANT
–DET–	12+31.00	12+99.75	LT.	68.75				12+99.75	3	6						1	1													BRIDGE WARRANT
–DET–	13+96.75	15+80.00	RT.	183.25			13+91.75		3	6						1		1												BRIDGE WARRANT
–DET–	14+21.75	17+70.00	LT.	348.25				14+24.25	3	6						1		1												BRIDGE WARRANT
			SUB-TOTALS:	806.50												4	1	2												
LESS TEMPORARY ANCHOR DEDUCTIONS:			GRAU 350 1 @ 50	50.00																										
			TYPE III 4 @ 18.75	75.00																										
			B-77 2 @ 27	54.00																										
			ANCHOR TOTAL DEDUCTION:	179.00																										
			GRAND TOTALS:	627.50																										
			SAY:	675.00																										

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