COMPUTED BY:	DBE	DATE:_	7 /12 /16
CHECKED BY:	ARM	DATE:_	7 /12 /16

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-4771	3 <i>B-</i> /

#### SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- 14+25.00 TO 15+93.25 (BEGIN BRIDGE)	64		9		55
-L- 17+70.25 (END BRIDGE) TO 19+25.00	22		86	64	
SUBTOTAL	86		95	64	55
WASTE TO REPLACE BORROW				-55	-55
PROJECT TOTAL	86		95	9	0
GRAND TOTAL	86			9	
SAY	90			10	

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

NOTE: 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.

ESTIMATED UNDERCUT = 200 CY (CONTINGENCY, AS DIRECTED BY THE ENGINEER)

SELECT GRANULAR MATERIAL = 200 CY

#### PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SY					
-L-	14 + 25	16+01.59 (EX. BRIDGE)	CL	477					
-L-	17 + 63.22 (EX. BRIDGE)	18 + 75	CL	299					
	776								
	SAY:								

### SUMMARY OF SHOULDER BERM GUTTER

IN LINEAR FEET

STATION TO STATION	LOCATION	LF
–L– STA. 15+65.00 to 15+81.25	LT	16.25
-L- STA. 15+65.00 to 15+81.25	RT	16.25
-L- STA. 17 + 82.25 to 17 + 99.00	LT	16.75
-L- STA. 17 + 82.25 to 17 + 99.00	RT	16.75
	TOTAL	66
	SAY	70

## "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

TEARL LEITOII	T BIOTALLEE THE	-	T PARALLEL GUARDRA		OO/ ((D)O (IE.				_		_								 - 11011		CI ATTENDATOR TIPE 330
SURVEY PEG STA	LOCATION		LENGTH		WARRA	NT POINT	"N" DIST.	TOTAL	FLARE	LENGTH	w		,	anchors	A	IMPACT TTENUATOR TYPE 350		REMOVE EXISTING			
LINE	BEG. STA.	END STA.	LOCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	SHOUL. WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE III	GRAU 350 (TL-3)		TYPE 350 A G NG		GUARDRAIL (LF)	REMARKS
-L-	15+12.00	15 + 93.25	LT	81.25′				15 + 93.25	VAR.	VAR.		50′		1′	1	1					
-L-	15+12.00	15 + 93.25	RT	81.25′			15 + 93.25		VAR.	VAR.	50′		1′		1	1					
-L-	15 + 52.00	16+02.00	RT																	50	
-L-	17 + 70.25	18 + 51.50	LT	81.25′			17 + 70.25		VAR.	VAR.	50′		1′		1	1					
-L-	17 + 70.25	18 + 51.50	RT	81.25′				17 + 70.25	VAR.	VAR.		50′		1′	1	1					
			SUBTOTAL (LF)	325′									TOTAL ANCH	HORS (EA)	4	4					
			LESS ANCHORS (LF)	275′									ANCHOR UNIT	LENGTH (LF)	18.75′	50′					
			TOTAL (LF)	50′				ADDITIONAL	CITADEDDAIL BOX	TC CAV E EA			DEDUCTION P	ER TYPE (LF)	75′	200′				50	
			SAY (LF)	50′				ADDITIONAL G	JUAKUKAIL PUS	515: 5AY 5 EA			TOTAL DEDUC	CTION (LF)		275′				50	