12/06/07

COMPUTED BY:	DATE:
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
B-5746	3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
–L– 11+00	14+99.88	922	8		914
	SUBTOTAL	922	8		914
–L– 15+57.13	16+95	140	19		121
	SUBTOTAL	140	19		121
	SUBTOTAL	1,062	28		1,034
TOTAL		1,062	28		1,034
MATERIAL FOR SHOULDER CONSTRUCTION			248	248	
LOSS DUE TO CLEARING & GRUBBING					
WASTE IN LIEU OF BORROW				–248	–248
PROJECT TOTAL		1,062	276		786
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					
GRAND TOTALS:		1,062			
SAY:		1,100			

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.

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
L	11+00	15+05	CL	900
L	15+52	16+95	CL	318
			TOTAL:	1,218
			SAY:	1,220

"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

GUARDRAIL SUMMARY

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 CONCRETE BARRIER	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	XI MOD	XI	GRAU 350	M-350	TYPE III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
L	14+69.75	15+51.00	LT	81.25				15+51				50		1			1		1										
L	14+57.25	15+51.00	RT	93.75			15+51				50		1				1		1										
L	15+56.00	16+49.75	LT	93.75			15+56				50		1				1		1										
L	15+56.00	16+49.75	RT	93.75				15+56				50		1			1		1										
		SUBTOTAL		362.50													4		4										
		LESS ANCHOR DEDUCTIONS																											
		GRAU-350 4 @ 50'		–200.00																									
		TYPE III 4 @ 18.75'		–75.00																									
		TOTAL		87.5													4		4										
		SAY		87.5			5 ADDITIONAL GUARDRAIL POSTS										4		4										

12/9/2016
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