COMPUTED BY: MJJ	DATE: 03/12/2014
CHECKED BY: BAK	DATE: 01/07/2015

PROJECT REFERENCE NO.	SHEET NO.
B-4681	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
–L–					
13+00.00 TO 15+83.88 (BEGIN BRIDGE)	165		9		156
16+41.13 (END BRIDGE) TO 18+50.00	144		30		114
SUB–TOTAL	309		39		270
PROJECT TOTAL	309		39		270
GRAND TOTAL	309		39		270
SAY	350				

EST. UNDERCUT EXCAVATION = 1000 CY
EST. SHALLOW UNDERCUT = 500 CY
EST. SELECT GRANULAR MATERIAL = 1000 CY

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.

NOTE: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

"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 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	XI MOD	TYPE III	GRAU 350 TL–3	M–350	XIII	CAT–1	VI MOD	BIC	AT–1	EA	G	NG				
–L–	15+02.63	15+83.88	LT	81.25′			BRIDGE		4.42′	8.00′		62.5′		1.25′		1	1												
–L–	15+02.63	15+83.88	RT	81.25′				BRIDGE	4.42′	8.00′	62.5′		1.25′			1	1												
–L–	16+41.13	17+22.38	LT	81.25′				BRIDGE	4.42′	8.00′	62.5′		1.25′			1	1												
–L–	16+41.13	17+22.38	RT	81.25′			BRIDGE		4.42′	8.00′		62.5′		1.25′		1	1												
TOTAL				325′												4	4												
DEDUCTION FOR ANCHORS				–275′												DEDUCTION FOR ANCHORS:													
PROJECT TOTAL				50′																									(GRAU 350 TL–3) 4 @ 50′ = 200′
SAY				50′																									(TYPE III) 4 @ 18.75′ = 75′
ADDITIONAL GUARDRAIL POST = 5 EACH																													TOTAL DEDUCTIONS = 275′

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	13+00	15+94.21	CL	578
–L–	16+29.24	18+50	CL	438
			TOTAL:	1016
			SAY:	1100

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