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PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.167	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- PHASE 1					
10+05.00	13+10.00	214	437	223	
SUBTOTALS:		214	437	223	
-L- PHASE 2					
11+15.00	12+25.00	30	202	172	
DETOUR REMOVAL					
11+15.00	12+30.00	96	0		96
SUBTOTALS:		126	202	172	96
PROJECT TOTALS:		340	639	395	96
WASTE IN LIEU OF BORROW				-96	-96
EST. 5% TOP SOIL ON BORROW PIT				15	
GRAND TOTALS:		340	639	314	0
SAY:		350		320	

Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing, will be paid for at the lump sum price for "Grading".

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

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	XI	GREU TL-2	M-350	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
PHASE 1	-L- 11+10.00 +/-	-L- 12+15.00 +/-	LT.	143.75'	31.25'				0'	EXISTING	25.00'		0.5'				1						1							
PHASE 2	-L- 11+10.00 +/-	-L- 13+00.00 +/-	LT.	87.50'	131.25'				0'	4'	25.00'		0.5'				1						1					175.00'		REMOVE TEMPORARY GUARDRAIL
PHASE 2	-L- 10+79.00 +/-	-L- 13+00.00 +/-	RT.	125.00'	106.25'				0'	4'	25.00'	25.00'	0.5'	0.5'			2													
PHASE 2	GUARDRAIL REMOVAL																											450.00'		REMOVE TEMPORARY GUARDRAIL
			SUBTOTAL	356.25'	268.75'												4						2					625.00'		
			LESS DEDUCTIONS																											
			GREU TL-2 (4 x 25') =	-100.00'																										
			AT-1 (2 x 6.25') =	-12.50'																										
			TOTAL	243.75'	268.75'		ADDITIONAL GUARDRAIL POSTS = 5										4						2					625.00'		
			SAY	250.00'	275.00'												4						2					625.00'		

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7/13/2021