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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.169	3B-1

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV. CY	EMBANK. +% CY	BORROW CY	WASTE CY
10+50.00 -L-	12+81.71 -L-	20	969	949	
13+39.47 -L-	15+50.00 -L-	181	17		164
SUBTOTALS:		201	986	949	-164
EARTH TO REPLACE BORROW				-164	-164
PROJECT TOTALS:		201	986	785	0
EST. 5% TO REPLACE TOP SOIL BORROW				39	
GRAND TOTALS:		201	986	825	0
SAY:		210		830	

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.

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
L	13+62.00	14+03.00	39.0
TOTAL:			39
SAY:			40

CONTINGENCY ITEMS

ITEM	QUANTITY	UNIT
INCIDENTAL STONE BASE	50	TONS

PAVEMENT REMOVAL SUMMARY

LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
-L-	11+50.00	12+00.00	CL	98.46
-L-	12+64.01	12+96.11	LT	48.84
-L-	12+99.81	14+52.01	LT	217.15
			TOTAL:	364.45 SY
			SAY:	370

PAVEMENT BREAKING SUMMARY

LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
-L-	12+00.00	12+64.01	LT	127.59
TOTAL:				127.59 SY
SAY:				130

"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	GREU TL-2	M-350	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG				
L	12+27.57	12+77.82	LT	25.00	25.00			BRIDGE				25'-0"		0'-6"		1	1													TEST LEVEL 2 (TL-2) GUARDRAIL ANCHOR UNIT TYPE 350
L	11+52.00	12+92.28	RT	131.25			12+25.00 FILL		4'-0"	7'-0"	25'-0"		0'-6"			1	1													TEST LEVEL 2 (TL-2) GUARDRAIL ANCHOR UNIT TYPE 350
L	13+28.00	13+78.69	LT	50.00			BRIDGE				25'-0"		0'-6"			1	1													TEST LEVEL 2 (TL-2) GUARDRAIL ANCHOR UNIT TYPE 350
L	13+49.48	14+27.97	RT	56.25	18.75			BRIDGE				25'-0"		0'-6"		1	1													TEST LEVEL 2 (TL-2) GUARDRAIL ANCHOR UNIT TYPE 350
			SUBTOTAL	262.5	43.75																								
			LESS DEDUCTIONS																										
			GREU TL-2 (4 x 25)=	100																									
			TYPE III (4 x 18.75)=	37.5	37.5																								
			SUBTOTAL	137.5	37.5																								
			TOTALS	125'	6.25'																								
			SAY	125'	12.5'		ADDITIONAL GUARDRAIL POSTS = 5									4	4												

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5/27/2021