COMPUTED BY: BAS	DATE: 8/1/2022
CHECKED BY: BSL	DATE: 8/2/2022

Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9929
NC COA No. F-0929

PROJECT REFERENCE NO.	SHEET NO.
B-5318	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 10+25.00	-L- 18+73.00	199	25,883	25,684	0
-L- 20+73.00	-L- 29+50.00	4,735	7,405	2,670	0
-Y1- 12+80.00	-Y1- 14+29.72	31	203	172	0
-DRW1- 10+32.54	-DRW1- 12+00.00	5	668	663	0
-DRW2- 10+32.50	-DRW2- 12+00.00	10	2,410	2,400	0
-DET- 11+00.00	-DET- 15+50.00	35	198	163	0
-MUT1- 10+50.00	-MUT1- 11+90.00	647	0	0	647
TOTALS:		5,662	36,767	31,752	647
LOSS DUE TO CLEARING & GRUBBING		-50		50	
SHOULDER MATERIAL FOR CONSTRUCTION			72	72	
WASTE IN LIEU OF BORROW				-647	-647
PROJECT TOTALS		5,612	36,839	31,227	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				1,561	
GRAND TOTALS:		5,612	36,839	32,788	0
SAY:		6,000		33,000	

EST. DDE = 245 CY
UNDERCUT EXCAVATION = 1,500 CY CONTINGENCY
GEOTEXTILE FOR SOIL STABILIZATION = 1,700 SY CONTINGENCY
SHALLOW UNDERCUT = 100 CY CONTINGENCY
SELECT GRANULAR MATERIAL = 1,400 CY CONTINGENCY
CLASS IV SUBGRADE STABILIZATION = 200 TONS CONTINGENCY

Note: Earthwork quantities are calculated by the roadway designer. These earthwork quantities are based in part on subsurface data provided by Schnabel Engineering.

Note: Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing, breaking of existing pavement, and removal of existing pavement will be paid for at the contract lump sum price for grading.

2'-6" CONCRETE CURB & GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH (FEET)
-L-	10+25.00	18+48.00	LT	792
-L-	20+98.00	22+55.81	LT	158
-L-	23+37.07	28+98.74	LT	568
-L-	10+25.00	12+92.73	RT	270
-L-	13+88.55	18+48.00	RT	442
-L-	20+98.00	28+98.73	RT	796
-Y1-	13+95.74	14+32.77	LT	50
-Y1-	13+86.57	14+23.86	RT	56
			TOTAL:	3,178
			SAY:	3,140

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SY
-L-	10+65	12+00	CL	490
-L-	14+54	18+70	RT	652
-L-	20+98	29+50	CL	2,499
-Y1-	12+80	13+25	CL	99
-DET-	11+01	12+02	RT	51
-DET-	13+37	15+37	RT	30
			TOTAL:	3,821
			SAY:	3,830

PAVEMENT BREAKING SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SY
-L-	12+00	18+65	CL	1,447
-L-	18+66	19+38	RT	190
-L-	20+58	20+98	RT	105
-Y1-	13+25	14+30	CL	241
-DET-	12+02	14+62	RT	216
			TOTAL:	2,199
			SAY:	2,200

"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			SINGLE FACED CONCRETE BARRIER	DOUBLE FACED CONC. BARRIER TYPE III	DOUBLE FACED CONC. BARRIER TYPE IV	REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE III	B-77	GREU TL-3	GREU TL-2	CAT-1	AT-1	TYPE III SC	B-77 SC	EA	G	NG					
-L-	12+65.00	15+32.50	LT	267.5				12+90.00	2	BERM	50		1				1		1										
-L-	15+69.00	18+48.00	LT	279				12+90.00	2	BERM					1				1										
-L-	14+03.00	15+14.00	RT	111			14+00.00		2	BERM	50		1				1		1										
-L-	15+45.00	18+48.00	RT	303			14+00.00		2	BERM	50		1		1		1												
-L-	20+98.00	22+57.00	LT	159			22+50.00		2	BERM	50		1		1		1												
-L-	20+98.00	22+75.00	RT	177				22+50.00	2	BERM					1				1										
			TOTAL	1,296.5											4		4		4										
			DEDUCTIONS																										
			CAT-1 (4 @ 6.25 LF PER UNIT)	25																									
			TYPE III (4 @ 18.75 LF PER UNIT)	75																									
			GREU TL-3 (4 @ 50 LF PER UNIT)	200																									
			PROJECT TOTAL	996.5											4		4		4										
			SAY	1,000											4		4		4										
			ADDITIONAL GUARDRAIL POST	5																									

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