COMPUTED BY: TTC	DATE: 8/12/2019
CHECKED BY: TLK	DATE: 8/12/2019

PROJECT REFERENCE NO.	SHEET NO.
B-5666	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 10+00.00	16+42.50	226	9,984	9,758	
-L- 18+33.00	25+30.00	240	19,999	19,759	
-L- 21+25.00	23+75.00	175			175
SUBTOTAL:		641	29,982	29,517	175
-DW1- 10+20.00	11+65.39	1	785	784	
SUBTOTAL:		1	785	784	
TOTALS:		642	30,767	30,301	175
LOSS DUE TO CLEARING AND GRUBBING		-50		50	
PROJECT TOTAL:		592	30,767	30,350	175
EST 5% TO REPLACE TOP SOIL ON BORROW PIT				1,518	
GRAND TOTAL:		592	30,767	31,867	175
SAY:		600		32,000	

EST. UNDERCUT EXCAVATION (CONTINGENCY) = 400 CY

EST. DDE = 100 CY
PER GEOTECH RECOMMENDATION: EST. SELECT GRANULAR MATERIAL: 400 CY
PER GEOTECH RECOMMENDATION: EST. GEOTEXTILE FOR SOIL STABILIZATION: 400 SY

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING ASPHALT PAVEMENT AND REMOVAL OF EXISTING ASPHALT PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

SHOULDER BERM GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LF
-L-	16+08.00	16+26.34	LT	18.34
-L-	16+07.00	16+30.07	RT	23.07
-L-	18+45.16	18+64.00	LT	18.84
-L-	18+48.89	18+66.00	RT	17.11
			TOTAL:	77.36
			SAY:	85

REMOVAL OF EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	10+79.00	12+66.59	CL	844.81
-L-	23+83.32	24+49.00	CL	304.68
			TOTAL:	1,149.49
			SAY:	1,150.00

BREAKING OF EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
-L-	12+66.59	16+42.50 (BR.)	CL	1,197.60
-L-	18+33.00 (BR.)	23+83.32	CL	1,848.43
			TOTAL:	3,046.03
			SAY:	3,050.00

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: STRAIGHT	LENGTH: SHOP CURVED	LENGTH: DOUBLE FACED	WARRANT POINT: APPROACH END	WARRANT POINT: TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH: APPROACH END	FLARE LENGTH: TRAILING END	W: APPROACH END	W: TRAILING END	ANCHORS: XI MOD	ANCHORS: B-77	ANCHORS: GREU 350	ANCHORS: M-350	ANCHORS: TEMP. W-BEAM RETROFIT	ANCHORS: TYPE III	ANCHORS: VI MOD	ANCHORS: GREU TL-3	ANCHORS: AT-1	TEMP. CRASH CUSHIONS: EA	TEMP. CRASH CUSHIONS: G	TEMP. CRASH CUSHIONS: NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
-L-	12+17.625	16+40.50 (BR.)	LEFT	422.875'				16+40.50 (BR.)	VARIES 5.00' TO 8.00'	11.00'		150'		3.0'		1						1						418.34'		
-L-	12+34.125	16+44.50 (BR.)	RIGHT	410.375'			16+44.50 (BR.)		8.00'	11.00'	150'		3.0'			1						1						418.17'		
-L-	18+35.00 (BR.)	22+53.75	RIGHT	418.75'				18+35.00 (BR.)	8.00'	11.00'		150'		3.0'		1						1						580.11'		
-L-	18+31.00 (BR.)	24+03.875	LEFT	572.875			18+31.00 (BR.)		8.00'	11.00'	150'		3.0'			1						1						479.95'		
			SUBTOTAL	1824.875'																								1,896.57'		
		LESS ANCHOR DEDUCTIONS:																												
		GREU TL-3	4 @ 50.00' =	-200.00'																										
		B-77	4 @ 22.875' =	-91.50'																										
		ANCHOR DEDUCTION TOTAL:		-291.50'																										
			PROJECT TOTAL	1533.375'												4						4						1,896.57'		
			SAY	1537.50'												4						4						1,897.00'		
		ADDITIONAL GUARDRAIL POST =		5 EA																										

4/04/06
10:FEB 2021 8:07
N:\2015\5015945.22 B-5666\Roadway\Proj\B-5666_Rdy_sum.dgn
USER: SMOYE