

12/06/07

COMPUTED BY: EWB DATE: 11/23/22
 CHECKED BY: DDM DATE: 11/23/22

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. BR-0160
 SHEET NO. 3B-1

**SUMMARY OF EARTHWORK
 IN CUBIC YARDS**

STATION	STATION	UNCL. EXCAV.	UNSUIT. UNCLASS.	EMBANK. +%	BORROW	WASTE
-L- 13+00.00	-L- 18+88.31 (BR)	720		2,721	2,001	
-L- 24+66.69 (BR)	-L- 29+50.00	1,152		909		243
SUBTOTALS:		1,872		3,630	2,001	243
CAUSEWAY REMOVAL						
-L- 21+50.00	-L- 24+65.00	4,790	150			4,790
SUBTOTALS:		4,790	150			4,790
TOTALS:		6,662	150	3,630	2,001	5,033
EARTH WASTE TO REPLACE BORROW					-2,001	-2,001
PROJECT TOTALS:		6,662	150	3,630		3,032
GRAND TOTALS:		6,662	150	3,630	0	3,032
SAY:		6,700				

EST. SHOULDER BORROW = 160 CY
 EST. UNDERCUT EXCAVATION = 300 CY

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

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

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-L-	13+00.00	18+99.24	CL	1,864.30
-L-	21+80.17	29+50.00	CL	2,395.03
TOTAL:				4,259.33
SAY:				4,260

SHOULDER BERM GUTTER SUMMARY

SURVEY LINE	STATION	STATION	LENGTH
-L- (RT.)	16+69.56	18+64.31	194.8'
-L- (RT.)	24+90.69	25+10.44	19.8'
TOTAL:			214.5'
SAY:			215'

"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 TL-3			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	GREU TL-3	TYPE III	EA	G	NG								
-L-	16+19.56	18+88.31	RT	268.75			BRIDGE		3'-3"	6'-3"	50.00		1.00			1	1										
-L-	24+66.69	25+60.44	RT	93.75				BRIDGE	14'-3"	17'-3"		50.00				1	1										
-L-	24+66.69	26+60.44	LT	193.75			BRIDGE		3'-3"	6'-3"	50.00					1	1										
-L-	17+90.00		LT																								
-L-	25+40.56		LT																								
SUBTOTALS				556.25																							
ANCHOR DEDUCTION				206.25																							
TOTAL				350.00												3	3										
SAY				375.00											3	3											

ANCHOR DEDUCTION
 GREU TL-3: 3 @ 50' = 150'
 TYPE III: 3 @ 18.75' = 56.25'
 GRAND TOTAL = 206.50'
 ADDITIONAL GUARDRAIL POSTS = 5

ATTENUATOR LOCATED AT BARRIER WALL TERMINUS.
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