

RD266404

COMPUTED BY: CS 8/8/2019
CHECKED BY: IY 3/19/2020

PROJECT NO. B-5301
SHEET NO. 3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

CUBIC YARDS

Station to Station	Uncl. Exc. C.Y.	Embank. +% C.Y.	Borrow C.Y.	Waste C.Y.
SUMMARY NO. 1				
PHASE 1				
-L- 10+50.00 TO 24+50.00 LT	511	74,225	73,714	
-L- 27+50.00 TO 42+00.00 LT	564	58,021	57,457	
-DR2- 10+25.95 TO 11+50.00	58	9		49
-DR2- (-L-17+00.00 TO 14+00.00)	193	28		165
SUMMARY NO. 1 TOTALS	1,326	132,283	131,171	215
SUMMARY NO. 2				
PHASE 2				
-L- 11+00.00 TO 24+50.00 RT	16,939	138		16,801
-L- 26+00.00 TO 42+00.00 RT	8,491	711		7,780
-DR1- 10+50.00 TO 11+10.00	26	15		11
-Y1- 10+50.00 TO 11+60.00	126	166	40	
SUMMARY NO. 2 TOTALS	25,582	1,030	40	24,592
PROJECT SUB TOTAL	26,908	133,313	131,212	24,807
WASTE IN LIEU OF BORROW			-215	-215
PROJECT TOTAL	26,908	133,313	130,997	24,592
Est 5% To Replace Topsoil at Borrow Pit			6,550	
GRAND TOTALS	26,908	133,313	137,547	24,592
SAY	27,000		138,000	

EST. DDE = 3849 CU. YDS.
SELECT GRANULAR MATERIAL = 5,400 CU. YDS.
EST. UNDERCUT 1400 CU. YDS.

Approximate quantities only. Unclassified excavation, fine grading, clearing and grubbing and removal of existing pavement will be paid for at the lump sum price for "Grading".

Note: Earthwork quantities are calculated by the SEPI Engineering Company
These earthwork quantities are based in part on subsurface data
Provided by the Geotechnical Engineering Unit.

SUMMARY OF ASPHALT PAVEMENT REMOVAL

LINE	Station to Station	LOC LT/RT/CL	Asphalt Removal SQ. YDS.
-L-	13+55.52 TO 24+24.97	RT	2,582.85
-L-	26+01.45 TO 35+91.39	RT	2,370.94
PROJECT TOTAL			4,953.79
SAY			4,960.00

SUMMARY OF SHOULDER BERM GUTTER

LINE	Station to Station	LOC LT/RT/CL	LENGTH FT
-L-	16+95 TO 24+45	LT	750.00
-L-	27+84 TO 34+55	LT	671.00
-L-	17+95 TO 23+98	RT	603.00
-L-	27+27 TO 34+50	RT	723.00
PROJECT TOTAL			2747.00
SAY			2750.00

SUMMARY OF CONCRETE PAVEMENT REMOVAL

LINE	Station to Station	LOC LT/RT/CL	Concrete Removal SQ. YDS.
-L-	36+36.86 TO 36+80.61	RT	55.67
PROJECT TOTAL			55.67
SAY			60.00

GUARDRAIL SUMMARY

"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

LINE	BEG. STA.	END STA.	LOC.	LENGTH (FT.)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS				IMP. ATTEN. TYPE 350			REMOVE EXISTING GUARDRAIL	REMARKS		
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPR. END	TRAIL. END	APPR. END	TRAIL. END	GREU TL-3	TYPE III	AT-1	EA	G	NG					
-L-	16+43.82	24+68.82	LT	825.00			17+75.00	24+68.82	8'	11'	50'	200'	1'	4'	1	1							951'	SEE SHEET 2C-1 FOR TYPE III SPECIAL DETAIL	
-L-	16+59.23	24+21.73	RT	762.50			18+00.00	24+42.09	8'	11'	50'	200'	1'	4'	1	1							887'	SEE SHEET 2C-1 FOR TYPE III SPECIAL DETAIL	
-L-	27+60.67	35+48.17	LT	787.50'			34+25.00	27+60.67	8'	11'	200'	50'	4'	1'	1	1							765'	SEE SHEET 2C-1 FOR TYPE III SPECIAL DETAIL	
-L-	27+04.10	35+04.10	RT	800.00'			27+04.10	33+00.00	8'	11'	200'	50'	4'	1'	1	1							828'	SEE SHEET 2C-1 FOR TYPE III SPECIAL DETAIL	
TOTAL				3175.00'												4	4						3431'	TOTAL	
DEDUCTION FOR ANCHOR UNITS"																									
GREU TYPE TL-3 (4 AT 50')				-200.0'																					
GREU TYPE III (4 AT 18.75')				-75.0'																					
PROJECT TOTAL				2900.00'												4	4							3431'	PROJECT TOTAL

ADDITIONAL GUARDRAIL POST = 10 EA