

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
PHASE I					
-L- 13+30.00 LT	21+83.80 LT (BRIDGE)	100	2,546	2,446	0
-L- 23+66.80 LT (BRIDGE)	27+08.00 LT	0	7,545	7,545	0
-Y1- 25+90.00 LT	26+95.00 LT	243	66	0	177
-Y1- 26+40.60 RT	27+85.00 RT	204	0	0	204
-Y1- 26+40.60 MED	27+36.00 MED	165	47	0	118
-Y2- 11+45.00	12+79.34	0	155	155	0
	SUBTOTAL	712	10,359	10,146	499
	PHASE I - TOTAL	712	10,359	9,647	0
PHASE II					
-Y1- 22+04.05 LT	25+90.00 LT	527	220	0	307
-LPB- 12+50.00	14+00.00	1,942	29	0	1,913
-RPB- 10+30.00	15+05.43	1,966	73	0	1,893
-RPC- 11+60.00	14+04.96	5	274	269	0
-Y3- 10+50.74	11+50.00	93	9	0	84
	SUBTOTAL	4,533	605	269	4,197
	PHASE II - TOTAL	4,533	605	0	3,928
PHASE III					
-L- 14+10.00 RT	21+83.80 (BRIDGE) RT	433	1,160	727	0
-L- 23+66.80 (BRIDGE) RT	27+08.00 RT	56	2,242	2,185	0
-L- 27+08.00	35+17.00	359	561	202	0
-Y1- 26+95.00 LT	31+00.00 LT	1,256	60	0	1,196
-Y1- 27+36.00 MED	27+95.85 MED	17	23	6	0
-Y1- 27+85.00 RT	28+58.31 RT	16	5	0	11
-RPD- 11+20.00	13+15.96	439	10	0	430
-DW1- 10+20.04	10+95.04	10	33	23	0
-DW2- 10+11.75	11+75.28	64	56	0	7
-DW3- 10+20	11+05.00	140	0	0	140
	SUBTOTAL	2,790	4,150	3,143	1,784
	PHASE III - TOTAL	2,791	4,150	1,359	0
PROJECT TOTALS:		8,035	15,112	11,006	3,928
WASTE IN LIEU OF BORROW					
MATERIAL FOR SHOULDER CONSTRUCTION			972	972	
PROJECT TOTALS:		8,035	16,084	11,977	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				599	
GRAND TOTALS:		8,035	16,084	12,576	
SAY:		8,100		12,600	

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	15+19	16+63	LT	39.31			
-L-	16+49	16+68	RT	6.38			
-L-	17+01	17+02	RT	0.21			
-L-	17+34	17+35	RT	0.59			
-L-	17+43	17+81	RT	8.58			
-L-	17+82	17+84	RT	2.00			
-L-	18+20	21+29	CL	1843.33			
-L-	23+42	28+82	RT	1819.18			
-L-	28+42	30+59	LT	130.18			
-L-	31+89	32+26	LT	5.66			
-L-	33+82	33+84	RT	0.68			
-L-	34+14	34+17	RT	1.68			
-L-	33+92	35+07	LT	20.55			
-L-	34+58	35+12	RT	68.50			
-Y2-	11+58	12+00	RT	19.44			
-Y2-	11+90	12+00	LT	1.80			
-Y2-	12+21	12+74	RT	24.98			
-Y2-	12+16	12+44	LT	7.43			
-Y3-	10+43	11+08	LT	177.72			
-Y3-	11+20	11+36	LT	20.25			
-LPB-	10+00	12+25	CL	322.84			
-RPB-	10+30	15+23	CL	2255.13			
-RPC-	12+60	13+99	LT	240.15			
-RPD-	11+20	14+23	CL	517.25			
-DW1-	10+89	10+95	RT	0.90			
-DW2-	10+19	10+45	RT	3.29			
		TOTAL:		7,538.01			
		SAY:		7,540			

CONTINGENCY ITEMS PER NCDOT GEOTECHNICAL REPORT - DESIGN AND CONSTRUCTION RECOMMENDATIONS, DATED NOVEMBER 19, 2018:
ESTIMATED UNDERCUT = 400 CY
ESTIMATED SELECT GRANULAR MATERIAL = 400 CY
ESTIMATED GEOTEXTILE FOR SOIL STABILIZATION = 200 SY

Note: These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

SUMMARY OF GUARDRAIL

"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.
NG = NON-GATING IMPACT ATTENUATOR TYPE 350
G = GATING IMPACT ATTENUATOR TYPE 350

LINE	BEG. STA.	END STA.	LOC.	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS					IMP. ATTN. TL-3			REMOVE EXISTING GUARDRAIL	SINGLE FACE CONCRETE BARRIER	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS		
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPR. END	TRAIL. END	APPR. END	TRAIL. END	III	B-77	GREU TL-2	M-350	AT-1	CAT-1	YES	EA					G	NG
-L-	20+40.94	21+65.75	RT	125.00				21+65.75	7.5																			
-L-	23+84.85	25+34.37	LT	150.00				23+84.85	7.5		104.2																	
-Y1-	26+38.35	26+87.48	RT	50.00				26+87.48	12		26.3		1.75															
-Y1-	26+38.35	26+87.48	LT	50.00				26+87.48	12			26.3		1.75												70		
-Y1-	27+52.98	28+02.10	RT	50.00				27+52.98	12			26.3		1.75												70		
-Y1-	27+52.98	28+02.10	LT	50.00				27+52.98	12		26.3		1.75															
-Y1-	27+24.31	28+14.45	RT																								90.0	
-Y1-	26+30.00	29+64.35	LT																								350.0	
-Y3-	10+48.41	10+48.41	CL			25.00																						
		SUBTOTAL		475.00	25.00																						580.00	
	ANCHOR UNIT DEDUCTIONS																											
		GREU TL-2 @ 25.00' EACH																										
		TYPE III @ 18.75' EACH																										
		CAT-1 @ 6.25' EACH																										
		Type B-77 @ 22.875'																										
		TOTAL		296.00	25.00																						580.0	
		SAY:		300.0	25.0																						580.0	