

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	TOTAL	EMBANKMENT	BORROW	WASTE TOTAL
		UNCL. EXCAV.	+%		
16+15.00 -L- LT	34+50.00	7,428	392		7,036
12+25.00 -Y1-	15+25.00	383	430	47	
34+50.00 -L- LT	49+50.00	511	7,568	7,057	
10+25.00 -Y3-	14+50.00	168	80,805	80,637	
14+50 -Y3-	15+00.00		3,795	3,795	
SUBTOTAL		8,490	92,990	91,536	7,036
16+15.00 -L- MD	34+50.00	1,678	365		1,313
34+50.00 -L- MD	49+50.00	1,826	265		1,562
SUBTOTAL		3,504	629		2,875
16+15.00 -L- RT	34+50.00	1,434	351		1,083
10+75.00 -Y2-	12+25.00	384	9		375
34+50.00 -L- RT	49+50.00	2,322	3,440	1,118	
SUBTOTAL		4,140	3,800	1,118	1,458
TOTAL		16,134	97,419	92,654	11,369
MATERIAL FOR SHOULDER CONSTRUCTION			2,703	2,703	
WASTE IN LIEU OF BORROW				-11,369	-11,369
PROJECT TOTAL		16,134	100,121	83,987	
EST. .5% TO REPLACE TOP SOIL ON BORROW PIT				4,199	
GRAND TOTAL		16,134	100,121	88,186	
SAY		16,200		88,190	

MILLING 1.5"

LINE	STATION	STATION	LOCATION	LENGTH OR AREA	WIDTH	SQUARE YARDS
-Y2-	10+63	13+52	LT/RT	22472		2497.00
TOTAL						2,497.00
SAY						2,500

REMOVAL OF EXISTING ASPHALT PAVEMENT

LINE	STATION	STATION	LOCATION	LENGTH OR AREA	WIDTH	SQUARE YARDS
-L-	16+15.00	29+72.00	LT	1,223		135.89
-L-	16+15.00	31+36.00	MED LT	3,667		407.44
-L-	16+15.00	30+66.00	MED RT	2,977		330.78
-L-	16+15.00	28+21.00	RT	2,456		272.89
-L-	29+72.00	33+98.00	LT	1,470		163.33
-L-	31+36.00	34+26.00	MED LT	958		106.44
-L-	30+25.00	33+83.00	MED RT	3,366		374.00
-L-	28+21.00	33+55.00	RT	1,043		115.89
-L-	35+73.00	47+13.00	LT	2,491		276.78
-L-	35+58.00	40+15.00	MED LT	6,225		691.67
-L-	35+31.00	47+84.00	MED RT	2,585		287.22
-L-	35+45.00	38+30.00	RT	1,436		159.56
-L-	40+15.00	47+63.00	MED LT	1,496		166.22
-L-	38+30.00	43+37.00	RT	901		100.11
-Y1-	12+15.00	13+40.00	LT	324		36.00
-Y1-	12+15.00	14+01.00	RT	726		80.67
-Y2-	11+97.00	12+39.00	LT	124		13.78
-Y2-	11+22.00	11+53.00	RT	91		10.11
TOTAL						3,728.78
SAY						3,730

INCIDENTAL MILLING

LINE	STATION	STATION	LOCATION	LENGTH OR AREA	WIDTH	SQUARE YARDS
-L-	16+15	16+52	LT	750		84.00
-L-	16+15	16+52	RT	750		84.00
-L-	49+12	49+50	LT	1229		137.00
-L-	47+48	47+86	RT	1434		160.00
-Y1-	12+15	12+53	LT	3107		346.00
TOTAL						811.00
SAY						820

WOVEN WIRE FENCE, 47" FABRIC

STATION TO STATION	LT. OR RT.	A FABRIC L.F.	B END BRACE	C CORNER BRACE	D LINE BRACE	E 4" POSTS	F 5" POSTS
-Y1-	LT	114	1		1	6	5
-Y3-	LT	8	1				2
-Y3-	RT	8	1				2
TOTAL		130				6	9
SAY		130				6	9

EST. DDE =80 CY
 EST. SHALLOW UNDERCUT = 200 CY
 PER GEOTECH RECOMMENDATION, ESTIMATED 300 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER
 EST. PAVEMENT STRUCTURE VOL = 8401 CY

NOTE: QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL RE-CROSS SECTION THE WORK ACCURATELY WHEN THE PROJECT IS STAKED OUT. THESE CROSS SECTION NOTES WILL BE USED IN COMPUTING THE FINAL QUANTITIES FOR WHICH THE CONTRACTOR WILL BE PAID.

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS										IMPACT ATTENUATOR TYPE 350		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & RESET EXISTING GUARDRAIL	REMARKS							
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	GREU TL-2	GREU TL-3	M-350	TYPE III	CAT-1	B-77	AT-1	TES	G	NG												
-Y3-/L-	-Y3- 11+04.19	-L- 46+26.18	LT	312.5	112.5		45+00.00	11+00.00	12'	15'	50'		1'															690'			PROTECT SIGNAL MAST ARM						
-L-	28+18.16	31+68.70	MED LT	350.00	12.5		28+85.79	28+85.79	6'		50'	50'	1'																		PROTECT SIGNAL MAST ARM						
-L-	28+04.90	28+91.15	MED RT	93.75			28+85.79	28+85.79	6'		50'		1'																		PROTECT SIGNAL MAST ARM						
-L-	39+16.52	40+10.53	MED LT	93.75			39+22.77	39+22.77	6'		50'		1'																		PROTECT SIGNAL MAST ARM						
-L-	36+35.28	37+87.24	MED RT	350.00	12.5		39+22.77	39+22.77	6'		50'	50'	1'																		PROTECT SIGNAL MAST ARM						
-L-	43+65.51	44+98.80	MED LT	131.25			44+25.00	44+25.00	6'		50'		1'																		PROTECT SIGN SUPPORT						
-L-	43+50.03	44+31.25	MED RT	81.25			44+25.00	44+25.00	6'		50'		1'																		PROTECT SIGN SUPPORT, 3' 1 1/2" POST SPACING						
-L-	28+00.00	29+55.84	RT	156.25					12'	15'																		147'			PROTECT SIGN SUPPORT						
-L-	42+12.52	44+06.25	RT	193.75			44+00.00	44+00.00	12'	15'	50'		1'																								
-L-	16+15.00	28+00.00	RT																												1187.5'						
-Y3-	12+75.00	14+56.25	RT	181.25			13+50	14+50	22.5'	15'	25'		1'																								
SUBTOTAL				1943.75	137.5																																
LESS DEDUCTIONS FOR ANCHORS																																					
PROJECT TOTALS:				1368.75	137.5																																
SAY:				1375.00	150				20																		837	1187.5									
																						= ADDITIONAL POSTS = 10 EA FOR 3' 1 1/2" POST SPACING + 10 EA CONTINGENCY							840	1187.5	20 ADDITIONAL POSTS						

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