

**SUMMARY OF EARTHWORK**

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. +%	BORROW	WASTE	
						SUITABLE	UNSUITABLE
-YRPA- 11+50.00	25+00.00	5,262	4,585	18,291	13,029		4,585
-YRPB- 9+50.00	20+00.00	2,321		3,738	1,417		
-YRPC- 10+00.00	27+00.00	7,523	3,150	8,444	921		3,150
-YRPD- 9+50.00	20+50.00	1,856		16,626	14,770		
SUBTOTALS:		16,962	7,735	47,098	30,136		7,735
-L-LT 129+14.00	148+24.00	756		976	220		
-L-RT 129+14.00	148+24.00	1,062		801		261	
-YI- 16+70.00	17+63.20	5		33	28		
-YI- 18+82.17	20+00.00	18		13		5	
SUBTOTALS:		1,841		1,822	247		266
-Y- 19+35.00	29+46.23	438		40,011	39,573		
-Y- 31+32.23	41+76.00	260		40,129	39,869		
-L-LT 26+65.00	56+50.00	2,104		2,038		66	
-L-LT 56+50.00	74+50.00	666		2,450	1,784		
-L-RT 33+50.00	56+50.00	2,014		2,035	21		
-L-RT 56+50.00	84+19.00	1,177		5,459	4,282		
SUBTOTALS:		6,659		92,122	85,529		66
TOTALS:		25,462	7,735	141,041	115,911	332	7,735
MATERIAL FOR SHOULDER CONSTRUCTION				10,738	10,738		
LOSS DUE TO CLEARING AND GRUBBING		-1,500			1,500		
WASTE IN LIEU OF BORROW					-332	-332	
SELECT GRANULAR MATERIAL IN LIEU OF BORROW				-4,625	-4,625		
ADDITIONAL UNDERCUT (CONTINGENCY)			2,500	3,125	3,125		2,500
PROJECT TOTALS:		23,962	10,235	150,227	126,316		10,235
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					6,316		
GRAND TOTALS:		23,962	10,235	150,227	132,631		10,235
SAY:		24,000	10,300		132,700		
UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE IN THE TOP 3' OF EMBANKMENT OR BACKFILL							
-YRPC- 14+25 TO 25+75 (1,750 CY) PER GEOTECH							
EST. DDE = 7,860 CY							
TOTAL SHALLOW UNDERCUT = 400 CY							
TOTAL CLASS IV SUBGRADE STABILIZATION = 800 TON							
TOTAL SELECT GRANULAR MATERIAL CLASS III = 4,700 CY							

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

**SUMMARY OF SHOULDER BERM GUTTER**

SURVEY LINE	STATION	STATION	LENGTH
-Y- RT	27+82.00	29+26.86	144.86
-Y- LT	29+16.00	29+38.36	22.36
-Y- RT	31+40.10	31+62.00	21.90
-Y- LT	31+51.60	32+93.00	141.40
TOTAL:			330.52
SAY:			350

**SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT**

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD <sup>2</sup>
-Y-	21+00.00	29+46.23	CL	2114.70
-Y-	31+32.23	39+50.00	CL	2180.06
TOTAL:				4294.76
SAY:				4300.00

**SUMMARY OF PAVEMENT REMOVAL**

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD <sup>2</sup>
-L-	47+08.26	54+68.78	CL	564.61
-L-	55+44.43	63+54.75	CL	701.62
-L-	47+92.15	53+87.39	RT	89.74
-L-	57+89.89	62+00.00	LT	111.61
TOTAL:				1467.57
SAY:				1470

**SUMMARY OF CABLE GUIDERAIL**

SURVEY LINE	STATION	STATION	LENGTH	END ANCHOR UNIT	EXISTING GUIDERAIL REMOVAL	COMMENTS
-L-	45+95.50	54+02.76	808	2		
-L-	56+10.43	64+55.50	845	2		
-L-	129+14.00		25	1		
-L-	148+24.00		25	1		
-L-	129+14.00	132+52.67			339	
-L-	144+57.85	148+24.00			366	
SUBTOTAL:			1,703	6	705	
LESS TERMINAL ANCHOR UNITS: 6 @ 25 =			150			
GRAND TOTALS:			1553	6	705	
SAY:			1575	6	725	
ADDITIONAL GUIDERAIL POSTS			6			

**SUMMARY OF WOVEN WIRE FENCE**

STATION TO STATION	SIDE	A FABRIC L.F.	B END BRACE	C CORNER BRACE	D LINE BRACE	E 4" POSTS	F 5" POSTS
-L- STA 28+92.73 TO STA 38+89.02	LT	996.29	1		4	64	14
-YRPA- STA 5+00.00 TO STA 19+66.51	LT	1,466.51		1	5	95	18
-Y- STA 19+35.00 TO STA 23+55.00	RT	450.00	1		2	28	8
-L- STA 33+50.00 TO STA 35+43.85	RT	193.85	1		1	11	5
-YRPC- STA 5+00.00 TO STA 26+93.08	RT	2,193.08		2	7	142	27
-Y- STA 37+51.30 TO STA 41+52.30	RT	401.00	1		2	24	8
-Y- STA 19+35.00 TO STA 23+58.70	LT	423.70	1		2	26	8
-YRPA- STA 5+00.00 TO STA 24+52.02	RT	1,952.02		2	7	125	27
-L- STA 72+00.69 TO STA 74+50.00	LT	249.31	1		1	15	5
-Y- STA 37+47.96 TO STA 41+50.37	LT	402.41	1	1	2	23	11
-YRPD- STA 5+00.00 TO STA 19+94.75	LT	1,494.75		1	5	97	18
-L- STA 71+94.73 TO STA 84.19.00	RT	1,224.27	1		4	80	14
GRAND TOTALS:		11,447.19				729	163
SAY:		11,450				730	165
ADDITIONAL BARBED WIRE (CONTINGENCY)		500					