

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LINE	STATION	STATION	EXCAVATION		EMBANKMENT +%	BORROW	WASTE TOTAL
			TOTAL UNCLASS.	UNDERCUT			
PHASE I							
-L-	14+30.00	22+00.00	208		350	142	
-L-	23+50.00	25+28.45 (Beg. Bridge)			4,566	4,566	
-L-	27+48.45 (End Bridge)	30+00.00	12		4,900	4,888	
-L-	30+50.00	59+00.00	9,773	4,387	41,884	38,644	10,920
-L-	59+00.00	89+00.00	18,260	9,106	95,173	80,552	12,745
-L-	89+00.00	119+00.00	107,416	13,720	48,286		72,850
-L-	119+00.00	142+41.16 (Beg. Bridge)	90,104		169,266	83,182	4,020
-L-	147+35.37 (End Bridge)	193+50.00	71,770	11,558	387,616	335,241	30,953
-L-	194+00.00	196+00.00			2,414	2,414	
		SUBTOTAL (PHASE I)	297,543	38,771	754,454	549,629	131,488
PHASE I							
-RPB-	10+50.00	20+90.00	1,004		2,070	1,205	139
-RPB SPUR-	10+58.00	12+12.00	8		1,290	1,282	
-RPC-	12+00.00	18+08.00	1,091		766		325
-RPC SPUR-	17+11.00	18+00.00	39		398	359	
-RPD-	11+00.00	19+21.00	2,104		583		1,521
-RPD SPUR-	18+00.00	18+50.00	122		283	161	
		SUBTOTAL (PHASE I)	4,368		5,390	3,008	1,985
PHASE I							
-Y5A-	11+50.00	15+00.00	603	811	1,278	675	811
-Y5C-	10+50.00	11+50.00	151		62		89
-Y6-	11+00.00	28+25.00	5,703	4,569	30,665	27,127	6,734
-Y6A-	11+00.00	11+50.00			612	612	
-Y6A-	18+00.00	23+00.00	1,520	1,348	1,674	598	1,792
-Y7-	14+00.00	21+00.00	456		188	140	408
-Y7-	22+50.00	30+50.00	5,709	5,018	6,127	5,737	10,337
-Y7A-	11+00.00	21+50.00	4,589	10,147	34,020	33,954	14,670
-Y7A-	22+50.00	32+50.00	3,573		6,973	3,400	
-Y7B-	16+00.00	16+80.00	137		157	20	
-Y8-	13+97.97	17+50.00	165		976	811	
-Y10-	15+00.00	36+00.00	9,541	900	12,682	3,402	1,161
-Y11-	10+50.00	18+50.00	950	241	2,906	1,956	241
-Y13-	10+60.00	18+50.00	1,803	253	3,553	1,750	253
-Y16-	12+21.00	45+50.00	2,715		3,430	715	
-Y16 RPA-	10+70.00	27+80.00	29,608	3,744	19,181	7,004	21,175
-Y20-	12+50.00	22+50.00	2,354		1,802	153	705
-Y26REV-	11+50.00	16+50.00	1,341		83		1,258
		SUBTOTAL (PHASE I)	70,918	27,031	126,370	88,055	59,634
PHASE I							
-DWY2-	10+25.00	11+50.00	342	468	612	270	468
-DWY3-	11+00.00	12+60.82	42		478	436	
-DWY4-	10+50.00	11+39.98	148		54		94
		SUBTOTAL (PHASE I)	532	468	1,144	706	562
		TOTAL (PHASE I)	373,361	66,270	887,359	641,397	193,669

LINE	STATION	STATION	EXCAVATION		EMBANKMENT +%	BORROW	WASTE TOTAL
			TOTAL UNCLASS.	UNDERCUT			
PHASE II							
-L-	14+00.00	25+00.00	683		1,308	625	
-L-	28+00.00	30+00.00	32		3,746	3,714	
-L-	30+50.00	47+50.00	1,599	29	3,438	2,906	1,096
-L-	187+50.00	188+00.00	190	422	544	354	422
-L-	193+50.00	194+50.00	586	777	1,020	904	1,247
		SUBTOTAL (PHASE II)	3,090	1,228	10,056	8,503	2,765
PHASE II							
-RPA-	10+83.00	13+98.55	315		768	453	
-RPA SPUR-	13+26.00	14+25.00	5		1,219	1,214	
		SUBTOTAL (PHASE II)	320		1,987	1,667	
PHASE II							
-Y5B-	11+57.00	13+50.00	31		82	51	
-Y6A-	11+50.00	13+50.00	459		1,543	1,084	
-Y7-	14+00.00	22+50	834		527	454	761
-Y7A-	21+50.00	22+50.00	306		102		204
-Y7A-	28+50.00	34+00.00	1,225		1,230	5	
-Y7B-	14+00.00	16+00.00	266		215		51
-Y9-	10+50.00	12+50.00	478		262		216
-Y10-	14+60.00	17+00.00	130		60		70
-Y10-	34+00.00	36+50.00	339		84		255
-Y11-	17+50.00	18+85.00	113		83		30
-Y16-	12+21.00	45+35.47	3,651		4,459	808	
-Y19-	10+80.00	12+60.00	218		127		91
-Y20-	10+00.00	22+50.00	5,341		362		4,979
-Y20-	25+00.00	33+20.00	3,500		734		2,766
-Y26REV-	10+65.00	11+50.00	65		7		58
-Y26REV-	16+50.00	17+04.37	70				70
-DWY1-	10+12.00	11+50.00	10		1,306	1,296	
		SUBTOTAL (PHASE II)	17,036		11,183	3,697	9,551
		TOTAL (PHASE II)	20,446	1,228	23,226	13,868	12,316
PHASE III							
-L-	22+20.00	23+40.00	19		288	269	
-L-	29+90.00	30+27.00	18		19	1	
-L-	56+00.00	60+00.00	39		4,487	4,448	
		SUBTOTAL (PHASE III)	76		4,794	4,718	
PHASE III							
-Y6A-	13+50.00	18+00.00	1,450		551		899
-Y20-	25+00.00	33+20.00	3,329		731		2,598
		SUBTOTAL (PHASE III)	4,779		1,282		3,497
		TOTAL (PHASE III)	4,855		6,076	4,718	3,497
		PROJECT SUBTOTAL	398,662	67,498	916,660	659,983	209,482
		LOSS DUE TO CLEARING & GRUBBING	-25,700			25,700	
		UNDERCUT EXCAVATION CONTINGENCY		3,500	4,200	4,200	3,500
		GRADE POINT UNDERCUT		1,350	1,620	1,620	1,350
		SELECT MATERIAL IN LIEU OF BORROW			-7,300	-7,300	
		SELECT MATERIAL CONTINGENCY			-1,500	-1,500	
		SHOULDER MATERIAL			19,404	19,404	
		WASTE IN LIEU OF BORROW				-53,971	-53,971
		HAZARDOUS SPILL BASIN EARTHEN DAM			384	384	
		PROJECT TOTAL	372,962	72,348	933,469	648,520	160,361
		EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				32,426	
		GRAND TOTAL	372,962	72,348	933,469	680,946	160,361
		SAY	377,000	72,440		688,000	
		EST. DDE = 41,800 CUBIC YARDS					
		PAVEMENT STRUCTURE VOLUME = 204,900 CY					

NOTE: 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.

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