

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. + %	BORROW	WASTE
SUMMARY NO. 1						
-YDET- STA. 19 + 69.08	-YDET- STA. 33 + 75.76	3,493		1,351		2,142
-YDET- STA. 34 + 95.55	-YDET- STA. 53 + 26.82	1,436	979	8,169	7,183	1,429
TOTAL SUMMARY NO. 1		4,929	979	9,520	7,183	3,571
SUMMARY NO. 2 (LT.)						
-L1- STA. 11 + 00.00	-L1- STA. 28 + 31.59	1,593	832	7,099	5,856	1,182
-Y2- STA. 9 + 50.00	-Y2- STA. 14 + 99.03	658	230	940	382	330
-Y2A- STA. 10 + 08.25	-Y2A- STA. 19 + 25.00	191		2,198	2,007	
TOTAL SUMMARY NO. 2		2,442	1,062	10,237	8,245	1,512
SUMMARY NO. 3 (LT.)						
-L- STA. 28 + 31.59	-L- STA. 59 + 00.00	4,026	4,541	17,943	15,617	6,241
-RPB- STA. 14 + 25.98	-RPB- STA. 25 + 60.41	4,081	1,140	26,938	25,607	3,800
-LPB- STA. 12 + 76.23	-LPB- STA. 16 + 18.61	520		1,381	1,061	200
-Y- STA. 34 + 95.47 (EB)	-Y- STA. 40 + 50.00			67,465	67,465	
-Y- STA. 40 + 50.00	-Y- STA. 49 + 50.00	981		15,691	14,710	
TOTAL SUMMARY NO. 3		9,608	5,681	129,418	124,460	10,331
SUMMARY NO. 4 (LT.)						
-L- STA. 59 + 00.00	-L- STA. 68 + 95.62 (BB)	1,413	737	7,908	6,910	1,152
TOTAL SUMMARY NO. 4		1,413	737	7,908	6,910	1,152
SUMMARY NO. 5 (LT.)						
-L- STA. 71 + 65.62 (EB)	-L- STA. 84 + 16.32	2,762		17,620	14,883	25
-L3- STA. 84 + 16.32	-L3- STA. 100 + 50.07	1,774	550	6,604	5,800	1,520
-Y4- STA. 12 + 75.00	-Y4- STA. 14 + 24.21	184		73		112
-DR1- STA. 10 + 75.00	-DR1- STA. 11 + 73.42	7	107	29	22	107
-DR2- STA. 10 + 75.00	-DR2- STA. 11 + 78.32	7	104	29	22	104
TOTAL SUMMARY NO. 5		4,734	761	24,355	20,727	1,868
SUMMARY NO. 6 (RT.)						
-L1- STA. 11 + 00.00	-L1- STA. 28 + 31.59	2,262		601		1,661
-Y3- STA. 10 + 12.00	-Y3- STA. 14 + 50.00	307	50	1,226	969	100
TOTAL SUMMARY NO. 6		2,569	50	1,827	969	1,761

DDE = 4,335 CY
 SELECT GRANULAR MATERIAL = 12,980 CY
 GEOTEXTILE FOR SOIL STABILIZATION = 23,625 SY
 CLASS IV SUBGRADE STABILIZATION = 4,950 TONS
 CLASS IV AGGREGATE STABILIZATION = 500 TONS
 SHALLOW UNDERCUT = 1,000 CY
 SHALLOW UNDERCUT BY STATIONS = 1,350 CY
 TOTAL SHALLOW UNDERCUT = 2,350 CY
 PAVEMENT STRUCTURE VOLUME (-L1-, -L-, -L3-) = 3,461 CY
 PAVEMENT STRUCTURE VOLUME (-Y-) = 602 CY

Earthwork quantities are calculated by SEPI Engineering. These earthwork quantities are based in part on subsurface data provided by Kleinfelder.

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. + %	BORROW	WASTE
SUMMARY NO. 7 (RT.)						
-L- STA. 28 + 31.59	-L- STA. 59 + 00.00	4,800		11,245	8,345	1,900
-RPD- STA. 14 + 50.00	-RPD- STA. 24 + 74.89	3,804	406	35,533	31,729	406
-LPD- STA. 12 + 27.00	-LPD- STA. 15 + 55.00	728	866	306		1,288
-Y- STA. 11 + 00.00	-Y- STA. 16 + 48.00 (BB)	1,473		503	330	1,300
-Y- STA. 17 + 38.00 (EB)	-Y- STA. 28 + 00.00	2,496		14,210	12,249	535
-Y- STA. 28 + 00.00	-Y- STA. 33 + 07.97 (BB)	346		61,873	61,527	
-DR3- STA. 9 + 53.00	-DR3- STA. 12 + 13.32	113		2,745	2,707	75
-DR4- STA. 10 + 15.82	-DR4- STA. 11 + 95.00	25		461	461	25
-DR5- STA. 10 + 00.00	-DR5- STA. 12 + 32.15	54	51	4,580	4,576	101
TOTAL SUMMARY NO. 7		13,839	1,323	131,456	121,924	5,630
SUMMARY NO. 8 (RT.)						
-L- STA. 59 + 00.00	-L- STA. 70 + 34.38 (BB)	6,118		5,201		917
TOTAL SUMMARY NO. 8		6,118		5,201		917
SUMMARY NO. 9 (RT.)						
-L- STA. 71 + 84.38 (EB)	-L- STA. 84 + 16.32	2,112		6,844	5,132	400
-L3- STA. 84 + 16.32	-L3- STA. 100 + 48.70	2,561		1,356		1,205
TOTAL SUMMARY NO. 9		4,673		8,200	5,132	1,605
SUMMARY NO. 10						
-YDET- STA. 19 + 69.08	-YDET- STA. 33 + 75.76	1,056		4,365		
-YDET- STA. 34 + 95.55	-YDET- STA. 53 + 26.82	6,536		1,571		4,965
TOTAL SUMMARY NO. 10		7,592		5,936		4,965
SUMMARY TOTALS						
		57,917	10,593	334,058	298,859	33,312
WASTE IN LIEU OF BORROW					-4,554	-4,554
LOSS DUE TO CLEARING AND GRUBBING					19,700	
UNDERCUT CONTINGENCY			3,800	4,750	4,750	3,800
SHOULDER MATERIAL				15,625	15,625	
PROJECT TOTALS		38,217	14,393	354,433	334,380	32,558
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					16,719	
GRAND TOTALS		38,217	14,393	354,433	351,099	32,558
SAY		38,500	15,000		351,500	

NOTE: UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL:
 -L- STA. 33 + 75 TO STA. 35 + 75 LT./RT.
 -L- STA. 37 + 75 TO STA. 39 + 75 RT.
 -RPB- STA. 14 + 90 TO STA. 18 + 75 LT./RT.
 -LPD- STA. 12 + 50 TO STA. 13 + 75 LT./RT.
 -RPD- STA. 14 + 90 TO STA. 19 + 75 LT./RT.
 -YDET- STA. 45 + 75 TO STA. 47 + 25 LT./RT.
 TOTAL QUANTITY = 5,025 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."

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 Kleinfelder