EARTHWORK

LOCATION		EARTH EXCAVATION	EMBANKMENT	EARTH EXCAVATION ADJ. FOR SHRINKAGE	CHANNEL EXCAVATION	CHANNEL EXCAVATION ADJ. FOR SHRINKAGE	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL WASTE (+)	FURNISHED EXCAVATION SHORTAGE (-)
STATION TO STATION		CU. YD.						
PRE-STAGE (DETOUR)								
109+07.55	109+67.55	84	389	71	142	121		-197
111+80.00	114+60.00	829	28	705			+677	
STAGE 1								
103+95.00	109+07.55	1,330	242	1131			+889	
109+67.55	111+80.00	553	443	471			+28	
	TOTAL	2,796	1,102	2,378	142	121	+1,594	-197

NOTE:
SHRINKAGE FACTOR = 15% FOR EARTH AND CHANNEL EXCAVATION.
CHANNEL EXCAVATION ASSUMED TO BE SUITABLE MATERIAL, AND IS INCLUDED IN EARTHWORK BALANCE.
EARTH EXCAVATION AND FURNISHED EXCAVATION TOTALS ARE ROUNDED TO THE NEAREST 5 CU. YDS.
CHANNEL EXCAVATION TOTAL IS ROUNDED TO THE NEAREST 1 CU. YD.
ADDITIONAL ESTIMATED QUANTITIES OF 2240 CU. YD. IS PROVIDED FOR FURNISHED EXCAVATION, EARTH EXCAVATION, AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, TO BE USED ONLY IF APPROVED BY THE ENGINEER.

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION		QUANTITY
STA.	OFFSET	(UNIT)
109+60.25	22.6' LT	8
109+62.64	30.0' RT	9
109+65.63	30.0' RT	9
109+69.54	23.9' LT	8
109+69.54	24.0' LT	8
109+77.24	26.6' RT	12
110+00.15	24.4' LT	8
110+01.59	24.7' LT	6
110+04.03	26.1' LT	6
110+12.85	25.8' LT	8
111+49.87	26.5' LT	9
111+71.03	42.6' LT	14
112+65.47	31.2' LT	14
112+71.32	30.5' LT	14
112+82.25	32.2' LT	13
113+27.11	32.3' LT	12
113+39.95	30.9' LT	10
113+40.12	33.1' LT	10
113+45.68	27.1' LT	14
113+49.32	30.9' LT	10
113+55.79	34.0' LT	9
113+58.81	31.6' LT	9
113+66.59	32.7' LT	9
113+68.59	33.9' LT	8
113+69.80	34.3' LT	12
114+48.83	35.8' LT	12
114+60.86	30.5' LT	12
	TOTAL	273

TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION		QUANTITY
STA.	OFFSET	(UNIT)
109+26.56	29.0' RT	20
109+48.49	23.2' RT	20
109+50.85	23.5' RT	28
109+56.24	29.2' LT	30
111+84.68	28.5' LT	16
112+34.46	31.7' LT	24
112+59.29	33.7' LT	17
112+76.89	30.6' LT	16
112+84.75	29.1' LT	16
113+14.14	32.4' LT	17
113+30.23	32.3' LT	16
113+35.64	21.7' LT	20
113+81.79	29.4' LT	24
114+58.68	30.7' LT	26
	TOTAL	290

AGGREGATE SHOULDERS, TYPE B 8"

LOCATION	QUANTITY
STATION	(SQ YD)
MAINLINE	
105+75.66 TO 114+60.00 RT	235.9
107+03.03 TO 113+97.02 LT	185.2
TOTAL	421.1

NITROGEN FERTILIZER NUTRIENT

LOCATION		QUANTITY	QUANTITY
STATION	OFFSET	(ACRE)	(POUNDS)
103+95.00 TO 109+24.06	RT	0.20	17.55
103+95.00 TO 105+80.41	LT	0.06	4.95
106+21.79 TO 108+56.08	LT	0.13	11.70
108+72.49 TO 109+24.04	LT	0.03	2.97
109+51.02 TO 114+60.00	RT	0.09	7.74
109+51.10 TO 110+79.56	LT	0.07	6.48
111+00.54 TO 111+24.62	LT	0.02	1.53
111+42.74 TO 111+96.38	LT	0.03	2.61
112+10.43 TO 112+41.62	LT	0.01	1.26
112+57.67 TO 114+08.11	LT	0.07	6.57
114+29.38 TO 114+60.00	LT	0.02	1.35
		TOTAL	75

POTASSIUM FERTILIZER NUTRIENT

LOCATION		QUANTITY	QUANTITY
STATION	OFFSET	(ACRE)	(POUNDS)
103+95.00 TO 109+24.06	RT	0.20	17.55
103+95.00 TO 105+80.41	LT	0.06	4.95
106+21.79 TO 108+56.08	LT	0.13	11.70
108+72.49 TO 109+24.04	LT	0.03	2.97
109+51.02 TO 114+60.00	RT	0.09	7.74
109+51.10 TO 110+79.56	LT	0.07	6.48
111+00.54 TO 111+24.62	LT	0.02	1.53
111+42.74 TO 111+96.38	LT	0.03	2.61
112+10.43 TO 112+41.62	LT	0.01	1.26
112+57.67 TO 114+08.11	LT	0.07	6.57
114+29.38 TO 114+60.00	LT	0.02	1.35
		TOTAL	75

PHOSPHOROUS FERTILIZER NUTRIENT

LOCATION		QUANTITY	QUANTITY
STATION	OFFSET	(ACRE)	(POUNDS)
103+95.00 TO 109+24.06	RT	0.20	17.55
103+95.00 TO 105+80.41	LT	0.06	4.95
106+21.79 TO 108+56.08	LT	0.13	11.70
108+72.49 TO 109+24.04	LT	0.03	2.97
109+51.02 TO 114+60.00	RT	0.09	7.74
109+51.10 TO 110+79.56	LT	0.07	6.48
111+00.54 TO 111+24.62	LT	0.02	1.53
111+42.74 TO 111+96.38	LT	0.03	2.61
112+10.43 TO 112+41.62	LT	0.01	1.26
112+57.67 TO 114+08.11	LT	0.07	6.57
114+29.38 TO 114+60.00	LT	0.02	1.35
		TOTAL	75

POROUS GRANULAR EMBANKMENT

LOCATION		QUANTITY
STATION TO STATION	OFFSET	(CU YD)
110+50.00 TO 111+14.10	LT	9.7
111+14.10 TO 111+51.60	LT	5.4
111+87.20 TO 112+24.40	LT	5.2
112+24.40 TO 112+65.30	LT	6.0
113+89.80 TO 114+50.00	LT	9.2
108+39.60 TO 109+10.30	LT	10.9
	TOTAL	46.4

POROUS GRANULAR EMBANKMENT, SUBGRADE

LOCATION		QUANTITY
STATION	OFFSET	(CU YD)
106+00 TO 109+00	LT (WIDENING AREAS)	244.4
110+00 TO 112+49	LT (WIDENING AREAS)	101.4
108+80 TO 109+19	LT (DITCH LINE)	21.7
109+70 TO 110+50	LT (DITCH LINE)	59.3
105+77 TO 108+56	LT (SIDEWALK)	32.3
	TOTAL	459.1

TRENCH BACKFILL

LOCATION		QUANTITY
STATION	OFFSET	(CU YD)
108+50.48 TO 108+74.83	LT	41.7
110+57.46 TO 111+03.11	LT	54.6
111+22.35 TO 111+43.47	LT	26.1
111+95.15 TO 112+11.44	LT	20.2
112+39.24 TO 112+58.81	LT	33.4
114+02.21 TO 114+37.72	LT	80.2
	TOTAL	256.2