Stas	Course	Dist	N	S	E	W	N+	E+ No 1
							00	00
0+00	S 3°23'W	90.5		90.3		5.3	-90.3	-5.3
0+90.5	S 37°07'W	66.0		52.6		39.8	-142.9	-45.1
1+56.5	S 11°32'W	107.0		104.8		21.4	-247.7	-66.5
2+63.5	S 2°26'W	75.1		75.0		3.2	-322.7	-69.7
3+38.6	S 32°53'W	156.5		131.4		85.0	-454.1	-154.7
4+95.1	S 51°28'W	228.6		142.4		178.8	-596.5	-333.5
7+23.7	S 24°17'E	68.1		62.1	28.0		-658.6	-305.5
7+91.8	S 37°31'E	161.9		128.4	98.6		-787.0	-206.9
9+53.7	S 3°06'W	179.7		179.4		9.7	-966.4	-216.6
11+33.4	S 74°03'W	177.3		172.0		43.0	-1138.4	-259.6
13+10.7	S 9°17'E	200.3		197.7	32.3		-1336.1	-227.3
15+11.0	S 19°20'W	271.0		255.7		89.7	-1591.8	-317.0
17+82.0	S 57°55'W	79.9		42.9		67.7	-1634.7	-384.7
18+61.9	S 19°17'W	55.3		52.2		18.3	-1686.9	-403.0
19+17.2	S 22°42'W	147.4		136.0		56.9	-1822.9	-459.9
20+64.6	N 88°40'W	99.9	2.3			99.9	-1820.6	-559.8
21+64.5	S 52°56'W	71.2		42.9		56.8	-1863.5	-616.6
22+35.7	S 49°03'W	129.6		84.9		97.9	-1948.4	-714.5
23+65.3	S 79°38'W	76.4		13.7		75.1	-1962.1	-789.6
24+71.7	N 81°46'W	102.2	14.6			101.1	-1947.5	-890.7
25+43.9	N 52°32'W	146.0	88.8			115.9	-1858.7	-1006.6
26+89.9	N 69°00'W	146.7	52.6			136.9	-1806.1	-1143.5
28+36.6	S 15°42'W	95.0		91.5		25.7	-1897.6	-1169.2
29+31.6	S 29°13'W	108.5		94.7		53.0	-1992.3	-1222.2
30+40.1	S 1°09'W	82.4		82.4		1.7	-2074.7	-1223.9
31+22.5	S 44°56'E	116.6		82.5	82.3		-2157.2	-1141.6
32+39.1	S 23°35'E	65.5		60.0	26.2		-2217.2	-1115.4
33+04.6	S 4°17'W	94.5		94.2		7.1	-2311.4	-1122.5
33+99.1	S 19°46'W	77.7		73.1		26.3	-2384.5	-1148.8
34+76.8	S 37°19'W	76.5		60.8		46.3	-2445.3	-1195.1
35+53.3	S 54°34'W	54.9		31.8		44.7	-2477.1	-1239.8
36+08.2	S 36°05'W	137.1		110.8		80.7	-2587.9	-1320.5
37+45.3	S 5°14'E	156.8		156.1	14.3		-2744.0	-1306.2
39+02.1	S 12°08'W	99.5		97.3		20.9	-2841.8	-1327.1
40+01.6	S 22°42'W	221.7		204.5		85.6	-2945.8	-1412.7
42+23.3	S 38°54'W	88.2		68.6		55.4	-3114.4	-1468.1
43+11.5	S 55°29'W	79.5		45.0		65.5	-3159.4	-1533.6
			1583	3317.7				

Stas	Course	Dist	N	S	E	W	X	No 2
							-3154.9	-1533.6
43+91.0	S 46°06'W	115.0		79.7		82.9	-3234.6	-1616.5
45+06.0	S 68°38'W	72.8		26.5		67.8	-3261.1	-1684.3
45+78.8	N 70°37'W	91.1	30.2			85.9	-3230.9	-1770.2
46+69.9	N 51°13'W	53.0	33.2			41.3	-3197.7	-1811.5
47+22.9	S 46°35'W	3309.7		2274.8		2404.1	-5472.5	-4215.6
80+32.6	S 25°30'W	61.6		55.6		26.5	-5528.1	-4242.1
80+94.2	S 1°49'W	68.0		68.0		2.2	-5596.1	-4244.3
81+62.2	S 8°29'W	66.6		65.8		9.8	-5661.9	-4254.1
82+28.8	S 5°28'E	75.3		75.0	7.2		-5736.9	-4246.9
83+04.1	S 4°30'W	106.3		106.0		8.3	-5842.9	-4255.2
84+10.4	S 44°47'W	99.0		70.3		69.7	-5913.2	-4324.9
85+09.4	S 14°35'E	150.1		145.3	37.8		-6058.5	-4287.1
86+59.5	S 6°55'E	122.1		121.2	14.7		-6179.7	-4272.4
87+81.6	S 2°38'W	125.8		125.7		5.8	-6305.4	-4278.2
89+07.4	S 20°17'W	94.3		88.4		32.7	-6393.8	-4310.9
90+01.7	S 12°38'E	98.1		95.7	21.4		-6489.5	-4289.5
90+99.8	East	84.3			84.3		-6489.5	-4205.2
91+84.1	S 74°10'E	40.4		11.0	38.9		-6500.5	-4166.3
92+24.5	S 56°45'E	46.7		25.6	39.1		-6526.1	-4127.2
92+71.2	S 5°25'W	75.6		75.3		7.1	-6601.4	-4134.3
93+46.8	S 28°43'E	99.7		87.4	47.9		-6688.8	-4086.4
94+46.5	S 35°07'W	45.9		37.5		26.4	-6726.3	-4112.8
94+92.4	S 73°31'W	65.6		18.6		62.9	-6744.9	-4175.7
95+58.0	S 47°45'W	123.1		82.8		91.1	-6827.7	-4266.8
96+81.1	S 32°24'W	76.4		64.5		40.9	-6892.2	-4307.7
97+57.5	S 24°09'W	84.1		76.7		34.4	-6968.9	-4342.1
98+41.6	S 11°09'E	63.4		62.2	12.3		-7031.1	-4329.8
99+05.0								
			63.4	3939.6	303.6	3099.8		
				106.2		150.7		
				3833.4		2949.1		
				63.4		305.9		
				3770.0		2643.2		
				3770.0		2647.6		
						4.4		

Total 4.5'

			N	S	E	W	add 45°	No 3
							-32611	-16843
95+78	S 28°01'W	1331.1		1175.1		v 625.3		
							-44362	-23096
59+09	S 3°41'W	37.8		37.7		v 2.4		
							-44739	-23120
59+47	S 41°08'E	66.3		49.9	43.6 v			
							-45238	-22684
60+14	S 29°26'E	71.8		62.5	35.3 v			
							-45863	-22331
60+85	S 55°17'E	116.3		66.2	95.6 v			
							-46525	-21375
62+02	S 37°37'E	112.0		88.7	68.4 v			
							-47412	-20691
63+14	S 13°48'E	138.7		134.7	33.1 v			
							-48759	-20360
64+52	N 87°29'W	126.3	5.5			v 126.2		
							-48704	-21622
65+79	S 86°19'W	120.2		7.7		v 119.9		
							-48781	-22821
66+99	S 67°32'W	59.8		22.9		v 55.3		
							-49010	-23374
67+59	S 35°25'W	58.8		47.9		v 34.1		
							-49489	-23715
68+17	S 55°58'W	97.7		54.7		v 80.9		
							-50036	-24524
69+15	N 70°21'W	95.6	32.1			v 90.0		
							-49715	-25424
70+11	N 83°59'W	115.7	12.1			v 115.1		
							-49594	-26575
71+26	S 78°12'W	94.4		19.3		v 92.4		
							-49787	-27499
72+21	S 66°03'W	61.8		25.1		v 56.5		
							-50038	-28064
72+83	S 84°15'W	64.7		6.5		v 64.4		
							-50103	-28708
73+47	S 78°10'W	64.8		13.3		v 63.4		
							-50236	-29342
74+12	S 88°30'W	47.8		1.2		v 47.8		
							-50248	-29820
74+60	S 76°09'W	67.9		16.3		v 65.9		
							-50411	-30479
75+28	S 80°33'W	96.5		15.8		v 95.2		
							-50569	-31431
76+24	S 9°32'E	52.5		51.8	8.7 v			
							-51087	-31344
76+77	S 20°13'E	144.3		135.4	49.9 v			
							-52471	-30845
78+21	S 17°28'E	131.1		125.1	39.3 v			
							-53692	-30452
79+52	S 12°24'E	110.7		108.1	23.8 v			
							-54773	-30214
80+63	S 26°33'W	45.8		41.0		v 20.5		
							-55183	-30419
81+09	S 53°47'W	92.3		54.5		v 74.5		
							-55728	-31164
82+01	S 49°45'W	126.5		81.7		v 96.5		
							-56545	-32129
83+28	S 40°09'W	91.7		70.1		v 59.1		
							-57246	-32720
84+19	S 61°11'W	109.9		53.0		v 96.3		
							-57776	-33683
85+29	S 37°20'W	84.8		67.4		v 51.4		
							-58450	-34197
86+14	S 6°23'E	114.8		114.1	12.8 v			
							-59591	-34069
87+29	S 9°29'E	86.7		85.5	14.3 v			
							-60446	-33926
88+N	S 7°35'W	188.5		186.9		v 24.9		
							-62315	-34175
90+04	S 9°47'E	102.6		101.1	17.4 v			
							-63326	-34001
91+07	S 37°57'E	109.3		86.2	67.2 v			
							-64188	-33329
			49.7	32074	509.4	21580		

			N	S	E	W		No 4
							-64188	-33329
92+16	S 24°34'E	77.4		70.4	32.2 v			
							-63484	-33007
							64892	
92+93	S 5°08'W	91.3		90.9		v 8.2		
							-62575	-33089
							65801	
93+85	S 3°10'W	83.8		83.7		v 4.6		
							-61738	-33135
							66638	
94+68	S 17°57'E	58.4		55.6	18.0 v			
							-61182	-32955
							67194	
95+27	S 85°17'E	81.6		66.6	47.1 v			
							-60516	-32484
							67866	
96+08	S 6°22'E	86.0		85.5	9.5 v			
							-59661	-32389
							68715	
96+94	S 7°15'W	161.1		159.8		v 20.2		
							-58063	-32591
							70313	
98+55	S 35°16'W	185.1		151.1		v 106.9		
							-56562	-33660
							71824	
100+41	S 12°52'W	105.7		103.0		v 23.5		
							-55522	-33795
							72854	
101+46	S 70°58'W	109.0		35.5		v 103.0		
							-55167	-34925
							73209	
102+55	N 83°22'W	55.6	6.4			v 55.2		
							-55231	-35477
							73145	
103+11	S 82°36'W	72.7		9.4		v 72.1		
							-55137	-36198
							73239	
103+84	N 52°06'W	47.6	29.2			v 37.6		
							-55429	-36574
							72947	
104+31	N 81°43'W	95.9	13.8			v 94.9		
							-55567	-37523
							72809	
105+27	N 57°08'W	48.5	26.3			v 40.7		
							-55830	-37930
							72546	
105+76	N 31°25'W	86.3	73.6			v 45.0		
							-56556	-38380
							71810	
106+62	S 68°55'W	100.7		36.2		v 94.0		
							-56204	-39320
							72172	
107+63	N 79°30'W	59.6	10.9			v 58.6		
							-56313	-39906
							72063	
108+22	N 62°14'W	95.6	44.5			v 84.6		
							-56758	-40752
							71618	
109+18	N 32°49'W	36.8	30.9			v 19.9		
							-57067	-40951
							71309	
109+55	N 86°14'W	84.9	5.6			v 84.7		
							-57123	-41798
							71253	
110+39	N 64°02'W	122.8	53.6			v 110.4		
							-57669	-42902
							70717	
111+62	N 45°43'W	58.2	40.6			v 41.7		
							-58065	-43319
							70311	
112+20	= 99+05 = 91+90							
			335.4	9477	1068	11058		
			49.7	32074	509.4	21580		
			385.1	41551	6162	32638		
				3851		6162		
				37700		26476		

Add 45'

			N	S	E	W	odd 45'	N=S
0+00	N 24° 15' E	61.6	56.2		25.3		14516.5	
0+61.6	N 38° 39' W	116.9	91.3			73.0	-13291.9	-6997.0
1+78.5	N 32° 31' E	111.6	94.1		60.0		14460.3	
2+90.1	N 11° 39' E	243.8	238.8		49.2		-132359	-6971.7
5+33.9	N 12° 58' E	243.7	237.5		54.7		14369.0	
7+77.6	N 71° 12' W	130.9	42.2			123.9	-13144.4	-7044.7
9+08.5	N 46° 18' W	151.5	104.7			109.5	14274.9	
10+60.9	N 55° 19' W	136.6	77.7			112.3	-13050.3	-6984.7
11+96.9	N 68° 51' W	208.9	75.4			194.8	14036.1	
14+05.5	N 47° 50' E	90.1	60.5		66.8		-12811.5	-6935.5
14+95.9	N 42° 40' E	165.5	121.7		112.2		13798.6	
16+61.1	N 79° 52' E	155.6	27.4		153.2		-12574.0	-6880.8
18+16.2	N 75° 0.0' E	228.5	59.1		220.7		13756.4	
20+45.3	N 54° 52' E	78.1	44.9		63.9		-12531.8	-7004.7
21+23.3	N 39° 24' E	130.4	100.8		82.8		13651.7	
22+53.7	N 6° 47' W	86.8	86.2			10.2	-12427.1	-7114.2
23+42.5	N 16° 41' W	91.4	87.5			26.2	13574.0	
24+31.9	N 35° 32' E	77.2	62.8		44.9		-12320.3	-7226.5
25+09.1	N 53° 19' E	93.7	56.0		75.2		13498.6	
26+02.8	N 0° 04' E	73.5	73.5				-12274.0	-7421.3
26+76.3	N 73° 05' W	139.5	40.6			133.5	13438.1	
28+15.8	N 47° 44' W	80.9	54.5			59.9	-12213.5	-7354.5
28+96.1	N 35° 22' E	105.5	86.0		61.1		13391.64	
30+02.2	N 12° 33' E	104.7	102.2		22.7		-12091.8	-7242.3
31+06.1	N 26° 06' W	98.3	88.3			43.2	13289.0	
32+05.2	N 24° 49' E	162.7	147.7		68.3		-12064.4	-7089.1
33+67.9	N 29° 40' E	121.0	105.1		59.9		13229.9	
34+88.1	N 2° 39' W	67.8	67.4			3.1	-12005.3	-6868.4
35+56.4	N 25° 49' E	1443.6	1299.5		628.7		13185.0	
50+00	N 58° 40' E	585.0	304.2		499.7		-11960.4	-6804.5
55+85.3	N 16° 45' E	245.0	234.6		70.6		13085.42	
58+20.2	N 13° 28' E	553.0	537.8		128.8		-11859.6	-6721.7
63+82.2	N 17° 40' E	528.0	503.1		160.2		12998.0	
69+10.2	N 19° 19' E	902.0	851.2		298.4		-11773.4	-6731.9
76+12.2	N 23° 24' E	1378.3	1264.9		547.4		12910.5	
91+90.3	= 99+05.5 = 112+20.2				3554.7	889.6	-11685.9	-6758.1
							12847.7	
							-11623.1	-6713.2
							12791.7	
							-11567.1	-6638.0
							12718.2	
							-11493.6	-6638.0
							12676.76	
							-11453.0	-6771.5
							12623.1	
							-11396.5	-6831.4
							12537.1	
							-11312.5	-6770.3
							12434.9	
							-11210.3	-6747.6
							12346.6	
							-11122.0	-6790.8
							12198.9	
							-10974.3	-6722.5
							12093.8	
							-10869.2	-6662.6
							12026.4	
							-10801.8	-6665.7
							10726.9	
							-9602.3	-6037.0
							10422.7	
							-9198.1	-5537.3
							10188.1	
							-8963.5	-5466.7
							9650.3	
							-8425.7	-5337.9
							9147.2	
							-7922.6	-5177.7
							8296.0	
							-7071.4	-4879.3
							7031.1	
							-5806.5	-4331.9

Add 12.5 to all these

OK

Traverse notes on El Monte to Lankershim Tunnels. — Cuyamaca Water Co. Flume Line.

Shuts # 1 + 2 runs from El Monte Tunnel south to Lake View Syphon Sta. 99+05.5 of shut # 2

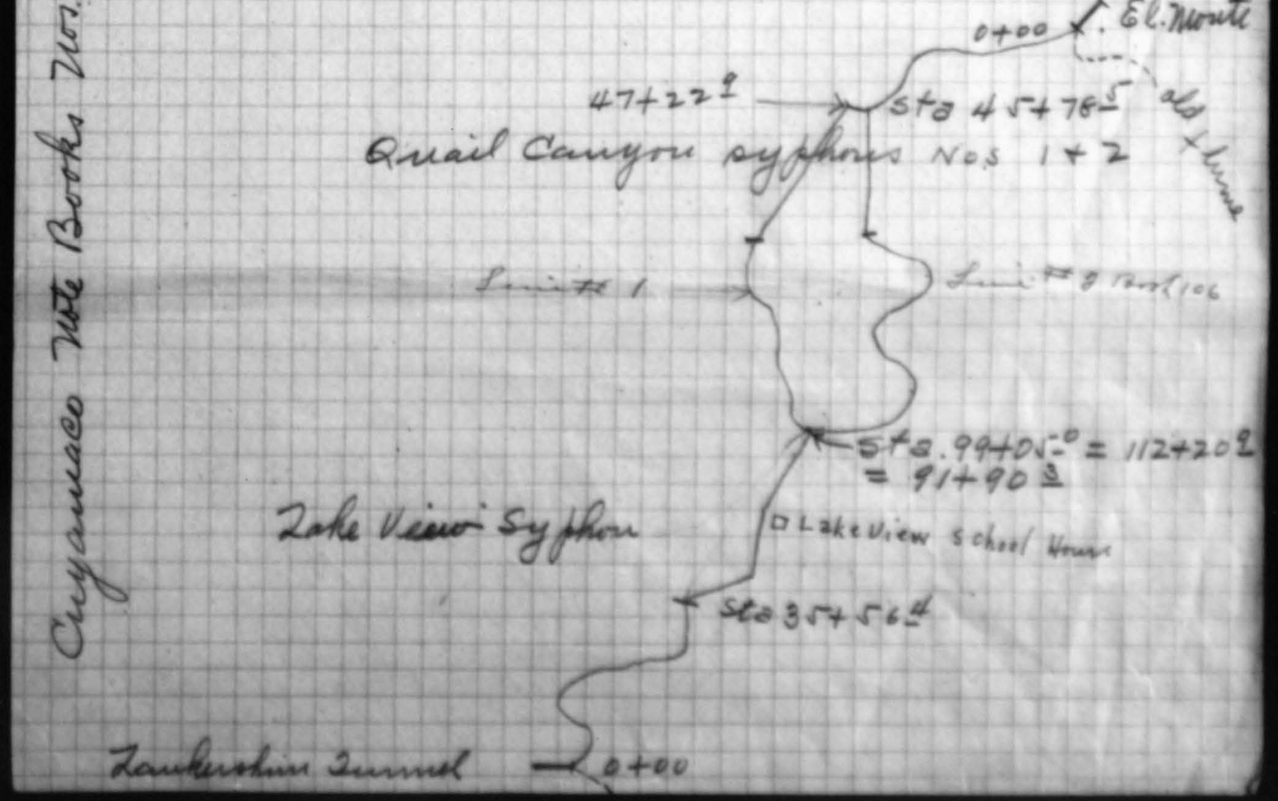
Shuts # 3 + 4 runs south from Sta. 45+78.5 of shut # 2 to Sta 112+20.2 = Sta 99+05.5 of shut # 2 (This line is noted as Quail Canyon Line # 2 Book 106

Shut # 5 runs north from Lankershim Tunnel to Sta 91+90.3 = 99+05.5 = 112+20.2 = shuts 3 + 4.

Traverse on shut # 5 is figured from north to south so that in platting the courses will have to be changed to read in the diagonally opposite quadrants.

Use line from Sta 45+78.5 shuts # 3+4 for platting line to Lankershim tunnel.

Cuyamaca Note Books 2105, 105 & 106



C. W. Co.

Transverse Notch in Proposed Change

of Flume

Bet. El Monte & Lauderdale Funds

Platted

McFadden.
Jan-1915

Cross Section Notes.

Excavation of

Cuyamaca Flume.

CUYAMACA FLUME. Excavation. Sheet H°1

Sta	CUYAMACA Area	FLUME Ydge	Excavation d.g.	S.R.	C.G.	Rip Rap	Dry Wall
0+00							
	Tr. Beyond	30.	30.				
1+00							
	1200	44.5	44.5				
2+00							
	2900	109.4	109.4				
3+00	6900	255.6	255.6				
4+00	3250	120.4	120.4				
4+50							
	1750	64.8	64.8				
5+00							
	3450	127.8	127.8				
5+50	Waste gates	30.0	30.0				5.6
	5700	211	211.0				
6+00							
	13500	500	365.0	10.0	125.0		
7+00							
	10750	398.1	199		199.1		
8+00							
	5000	185.2	166.7	18.5			
9+00							
	4440	1645	164.5				
9+80							
	6000	222.2	177.8	44.4			
11+00							
	2600	96.3	24.1	72.2			
11+65							
	4292.5	159.0	79.5	79.5			
12+50							
	2000	74.2	37.1	37.1			
13+00							
	5250	194.8	116.9	77.9			
14+00							
	14200	526.0	315.6	210.4			
16+00							
16+20							
	7600	281.5	112.6	168.9			5
17+00							
	7000	259.5	64.9	194.6			
18+00							
	5500	203.9	51.0	152.9			
19+00							
	4950	183.3	73.3	110.0			
20+00							
	4550	168.5	168.5				
21+00							
	3850	142.7	121.3		21.4		
22+00							
	4550	168.5			168.5		
23+00							
	5200	192.6	96.3		96.3		
24+00							
	4500	166.7	166.7		610.3		
25+00							
	10200	377.8	377.8				
27+00							
	10200	377.8	370.2	7.6			
29+00							
	9100	337.0	337.0				
31+00							
	8300	307.4	307.4				
33+00							
	4800	177.8	177.8				
35+00							
	4200	155.5	155.5				
37+00							
	7350	272.2	272.2				
40+00					Earth.		
	5850	216.7			216.7		
42+00							
	1875	69.4			69.4		
43+00							
		20	20.0				
44+00							
	875	32.4	32.4				
44+25							
	875	32.4	32.4				
44+50							
Total		7635.4	5575.0	1184.0	286.1	5.	15.6

SHEET H°2.

Sta	Ydge	Earth	d.g.	S.R.
44+90				
	25.0		25.0	
45+50				
	111.1		111.1	
46+50				
	130		130	
46+70				
48+00				
	27.8		27.8	
48+50				
	69.5		17.4	52.1
49+00				
	93.5		46.8	46.7
49+50				
	75.9		75.9	
50+00				
	9.6		9.6	
50+20				
50+90				
	38.9		38.9	
51+50				
	194.5		194.5	
53+00				
	129.6		129.6	
54+00				
	16.2		16.2	
54+25				
55+50				
	48.2		48.2	
56+50				
	66.2		66.2	
57+00				
	60.2		60.2	
57+50				
	84.3		84.3	
58+50				
	61.1		61.1	
59+50				
	127.7	127.7		
62+00				
	150.0	150.0		
64+00				
	75.0		75.0	
65+00				
	3.6		3.6	
65+10				
	T.E. 30.0	30.0		
67+50				
	59.3		59.3	
68+00				
	91.7		91.7	
68+50				
	252.8		252.8	
70+00				
	440.8		440.8	
72+00				
	153.7		153.7	
73+00				
	101.9		101.9	
74+00				
	431.5		431.5	
75+00				
	1327.0		1061.6	265.0
76+00				
	817.2		653.8	163.4
76+50				
	327.1		320.2	16.9
77+00				
	T.E. 30.0		30.0	
79+00				
	41.7		41.7	
80+00				
	47.6		47.6	
81+00				
	182.8		182.8	
81+75				
Total	5811.0	307.7	4963.8	542.5

Sheet No 3.

Sta	Ydge	Earth	d granite	Solid R.
81+75				
82+50	152.5		152.8	
83+25	68.1		68.1	
84+00	58.3	58.3		
85+00	35.2	35.2		
86+50	87.5	87.5		
87+50	60.2	60.2		
88+00	17.0	17.0		
88+30				
88+70	15.6		15.6	
89+00	11.7		11.7	
89+50				
90+00	25.9		25.9	
90+50	45.4		45.4	
90+65	5.8		5.8	
91+10				
91+50	15.6		15.6	
92+50	63.0		63.0	
93+50	63.0		63.0	
94+00	49.5		49.5	
94+50	30.1		30.1	
94+75				
95+05	25.3		25.3	
95+40	29.5		29.5	
95+70				
96+00	27.2		27.2	
96+20	18.1		18.1	
97+00	T.E. 20.0		20.0	
97+50	32.4		32.4	
98+50	149.1		149.1	
100+00	321.0		321.0	
101+00	201.9		201.9	
102+00	138.1		125.0	13.9
102+30	63.3		25.3	38.0
103+00	101.1		20.2	80.9
104+00	T.E. 20.0		20.0	
104+50	51.9		51.9	
105+50	192.6		192.6	
106+50	200.0		200.0	
107+50	211.1		211.1	
Total	2603.1	253.2	2217.1	132.8

Sheet No 4.

Sta	Ydge	Earth	d granite	Solid R.	d granite Fill	Bor. Fill
107+50						
108+00	64.8		64.8		30.0	
108+50	79.6		59.7	19.9		
109+50	262.0		222.2	40.8		
110	118.5		88.9	29.6		
110+40	189.6		161.2	28.4		
110+80	148.2		133.4	14.8		
112+22	T.E. 20		20.0			
112+52	133.3		133.3			
112+66	62.2		62.2			
115+90	2517.0	9+3.8	2046.3	3360.6	40.6	Tunnel No 1
115+95	33.3		33.3			
116+42	504.9		504.9			
140+06						
140+50	97.8		97.8			100.0
141+00	259.3		129.7	129.6		
141+50	277.8		111.1	166.7		
142+00	213.0		191.7	21.3		
142+50	142.6		142.6			
142+80	35.6		35.6			
143+70						
144+00	14.4		14.4			
146+00	207.4		207.4			
146+40	22.2		22.2			
146+85						
147+50	43.3		43.3			
148+50	155.6		155.6			
149	106.5 96.3		96.3			
150	187.1		187.1			
151	149.1		149.1			
152	162.1		162.1			
153	155.6		155.6			
153+50	90.7		90.7			
153+80	31.1		31.1			
154+15						
155+00	66.1		66.1			
156	165.6		155.6			
156+25	48.6		48.6			
156+50	29.1		29.1			
156+90						
Total	4257.3 31 1.8		3906.3	4511.1	30.0	100.0

Sheet No 5

Sta	ydg	Earth	d.g.	S.R.	dry wall
156+90					
	25.6		25.6		
157+13					
	173.2		173.2		
158					
	81.0		81.0		
+50					
	69.5		69.5		
159					
	71.3		71.3		
+50					
	7.8		7.8		
+60					
160+15	29.0				
	27.2		27.2		
+50	54.3				
	101.9		101.9		
161					
	99.5		99.5		
+50					
	55.1		55.1		
162					
	T.E. 15		15		
+50					
	97.2		87.5	9.7	
163					
	226.9		204.2	22.7	
+50					
	155.6		124.5	31.1	
164+10					
	T.E. 15.0			15.0	
+50					
	123.2		123.2		
165+00					
	371.3		352.7	18.6	
166					
	472.3		472.3		
168	89.0				
	172.2		172.2		
+65	1389.0				
	1358.8		1222.9	135.9	
169+80					
	1181.6		1122.5	59.1	
170+80					8.0
171					
	33.3		33.3		
+50					
	183.3		183.3		
172+50					
	105.9		105.9		
+90					
	59.3		59.3		
173+30					
	42.1		42.1		
174+00					
	96.3		96.3		
175					
	14.6		14.6		
+40					
175+75	19.4				
	14.8		14.8		
176	21.9				
	62.0		62.0		
176+50					
	13.0		13.0		
176+70					
177+15	143.0				
	46.6		46.6		
178					
	175.9		175.9		
178+50					
	191.7		191.7		
179					
	277.8		277.8		
180					
Total	6104		5812.0	292.1	8.0

Sheet No 6.

Sta	ydge	Earth	d.g.	S.R.	dry Wall	Back Fill
180+00						
	22.2		22.2			
+30						
	68.5		68.5		5.0	
181						
	146.3		146.3			
182						
	117.5		117.5			
+50	90.6					
	109.3		109.3			
183						
+25						
	54.2		54.2			
184						
	94.5		94.5			
+50						
	252.8		252.8			
185						
	178.9		178.9			
+20						
	50.6		50.6			
+30	1090.9		1090.9		5.0	600
187+50						
	43.8		43.8			
+57						
	298.6		298.6			
188						
	42.8		42.8			
+35						
	T.E. 30.0		30.0			
189+15						
	116.7		116.7			
+50						
	488.9		488.9			
190+50						
	733.4		733.4			
191+50						
	173.3		173.3			
191+80						
	T.E. 50.0		T.E. 50.0			
192+50						
	83.3		83.3			
193						
	161.1		161.1			
193+50						
	419.5		419.5			
194						
	157.9		157.9			
+50						
	177.8		177.8			
196+00						
	98.2		58.9	39.3		
+50						
	272.2		245.0	27.2		
197+50					10.0	
	259.3		259.3			
198+50						
	93.1		46.6	46.5		
199						
	13.9		13.9			
+20					25.0	
199+60						
	44.8		22.4	22.4		
200						
	114.4		114.4			
201+50						
	207.4		207.4			
202+50						
	73.2		73.2			
204						
	55.6		22.2	33.4		
+50						
	11.1		4.4	6.7		
204+70						
	15.6		15.6		35.0	
206+40						
Total	5221.2		5135.7	175.5	75.0	600

Tonnel No 2

Sheet N°7.

Sta	Ydge	Earth	d.g.	S.R.	dryWall
205+40					
	15.6		15.6		
206					
	56.5		45.2	11.3	
207					
	54.2		27.1	27.1	
+50					
	71.3		71.3		
208					
	48.6		48.6		
+75					
209			-		
	32.4		32.4		
+50					
	52.8		52.8		10.0
210					
	72.2		72.2		10.0
+75					
	13.9		13.9		
211					
	TE. 30.0		30.0		
212					
	90.7		90.7		
+50					
	337.1		337.1		
213+50					
	156.0		156.0		
214					
	54.8		54.8		
+35					
+90					
	93.3		93.3		
215+50					
	288.0		144.0	144.0	
216+50					
	234.3		175.7	58.6	
217+50					
	291.7		218.8	72.9	
218					
	106.5		79.9	26.6	
+50					
	30.1		22.6	7.5	
+75					
220+25					
	23.2		23.2		
220+50					
	71.8		53.8	18.0	
221					
	150.9		135.8	15.1	
222					
	133.3		133.3		
+50					
	193.7		193.7		
223					
	331.9		331.9		
224					
	270.8		243.7	27.1	
+85					
	366.3		366.3		
226					
	195.4		195.4		
227					
	76.2		76.2		
+35					
	40.0		40.0		
+65					
228					
	44.4		44.4		
+25					
	269.5		269.5		
229					
	422.3		422.3		
230					
	60.2		60.2		
+25					
Total.	4779.9		4371.7	405.2	20.0

Sheet N°8.

Sta	Ydge	Earth	d.g.	S.R.	dryWall
230+25					
	TE. 30.0		30.0		
+65					
	33.3		13.3	20.0	
231					
	54.4		27.2	27.2	
231+35					
	8.7		4.4	4.3	
231+50					
+90					
	5.6		5.6		
232					
	211.1		211.1		
233					
	47.4		47.4		
+40					
	TE. 20.0		20.0		
+90					
	8.9		8.9		
234					
	105.6		105.6		
+50					
	737.6		737.6		
236					
	203.2		203.2		
+55					
	TE. 30.0		30.0		
237+40					
	27.8		27.8		
237+70					
	154.1		154.1		
238+50					
	367.6		330.8	36.8	
240					
	209.2		167.4	41.8	
+90					
	22.4		20.2	2.2	
241+10					
+60					
	24.4		19.5	4.9	
242					
	290.4		291.4		
243+50					
	193.5		183.9	9.6	
244+50					
	69.5		69.5		
245+00					
	15.6		15.6		
245+20					
	TE. 60		60		
246+65					
	44.4		44.4		
247+00					
	294.5		294.5		
248+50					
	123.6		123.6		
249					
	243.8		243.8		
249+75					
	36.1		36.1		
250					
	TE. 15.0		15.0		
250+40					
	85.6		85.6		
+70					
	190.8		190.8		
251+20					
	102.2		102.2		
+50					10.0
	48.9		48.9		
+70					
+80					
	228.2		228.2		
252+20					
	452.3		452.3		
252+25					
Totals.	4741.9		4594.9	146.8	10.0

Sheet N° 9.

Sta	Ydge	Earth	d.g.	S.R.	dry Wall
252+75					
	354.2		354.2		
253+50					
	44.7		44.7		
255					
	48.6		48.6		
256+50					
	61.6		61.6		
+75					12.0
257+20					
	36.1		32.5	3.6	
257+50					
	301.0		301.0		
258+80					
	38.9		38.9		
259+15					
259+35					
	6.9		6.9		
+50					
	78.7		78.7		
260					
	33.3		33.3		
+30					
+60					5.0
	47.8		38.2	9.6	
261					
	59.7		35.8	23.9	
+50					
262+30					
	16.3		14.7	1.6	
262+50					
	192.6		144.4	48.2	
263+50					
	422.3		422.3		
265+50					
	75.5		75.5		
267+00					
	85.6		85.6		
+70					
	32.1		32.1		
268+15					
					40.0
268+50					
	88.9		88.9		
269+30					
	77.8		77.8		
270					
	60.2		48.2	12.0	
270+50					
	120.4		108.4	12.0	
271+50					
					35.0
271+75					
	8.3		4.2	4.1	
272					
	8.3		8.3		
272+25					
	IE 40.0		40.0		
273+50					
	175.0		140.0	35.0	
273+85					
	250.0		175.0	75.0	
274+95					
	IE 60.0		60.0		
275+65					
	54.2		54.2		
276+00					
	211.1		211.1		
277					
	19.4		19.4		
+35					
278	15.0		15.0		
	30.0		30.0		
278+40					
	3154.1		2929.7	225.0	92.0

Sheet N° 10

Sta	Ydge	Earth	d.g.	S.R.	dry Wall
278+40					
	83.9		83.9		
279					
	9.7		9.7		
+15					
+45					
	9.7		9.7		
+60					
	50.4		47.9	2.5	
281					
	15.3		15.3		
+25					
+50					
	48.2		48.2		
282					
	240.8		240.8		
283+25					
	53.0		53.0		
+80					
284+20					
	31.1		31.1		
+50					
	272.2		258.6	13.6	50
286					
	283.4		255.1	28.3	
287+50					
	27.8		27.8		
+75					
288					
	37.5		35.6	1.9	
+50					
	95.8		86.2	9.6	
290					
	401.9		381.8	20.1	
292					
	311.1		280.0	31.1	
294					
	179.6		161.6	18.0	
295					
	100.0		95.0	5.0	
+50					
	27.5		24.7	2.8	
+80					
	IE 20.0		20.0		
296+25					
	22.2		20.0	2.2	
296+50					
	237.1		189.7	47.4	
297+50					
	322.2		322.2		5.0
299					
	196.3		196.3		
300					
	25.9		25.9		
+20					
+50					
	45.4		45.4		
301					
	244.5		244.5		
302+50					
	162.5		162.5		
304					
	102.8		102.8		
305					
	520.8		520.8		
306+90					
	977.5		879.7	97.8	
309+50					
	84.3		42.2	42.1	
310					
	IE 40.0		40.0		
310+80					
	58.3		49.6	8.7	
311+25					
Total	5398.7		5007.6	331.1	10.0

Sheet N° 11

Sta	Ydge	Earth	d.g.	S.R.	dryWall
311+25					
	1250		1250		
312					
	1185		1185		
313					
	1815		1724	91	
314					
	9816		9816		
316+50					
	1008		900	108	
317					
	207		166	41	
+20					
	TE. 150		150		
317+75					
	454		454		
318					
	5463		5190	273	
320					
	3519		2815	704	
322					
	3463		2944	519	
324					
	4223		4017	211	
326					
	61.1		550	61	
+50					
	TE. 150		150		
327+25					
	421		379	42	
327+50					
	843		759	84	
329					
+25					
	278		278		
+50					
	3000		2850	150	
330					
	3000		2700	300	
331+50					100
	556		473	83	
332					
+50					
	611		519	92	
333					
	4223		4223		200
335					
	4000		3600	400	
337					
	1000		950	50	
+90					
	250			250	
338+85					
	97		97		
339					
	2408		2408		
341					
	3519		3343	176	
343					50
	3519		3343	176	
345					
	3332		3001	333	
347					
	4111		3494	617	
348+85					50
	3504		3329	175	
351					
	1611		1530	81	
352+50					
	2408		2408		
354+50					
	3222		2739	483	
356+50					
	1741		1741		
357+30					
Total	8096.2		7547.0	549.2	40.0

Sheet N° 12

Sta	Ydge	Earth	d.g.	S.R.	dryWall	Concrete
357+30						
371+65						
	2375		2375			
373						
	3934		3547	187		
375						
	4459		4013	446		
376+50						
	695		660	35		
377						
	TE. 300		300			
378+50						
	421		421			
379						
	3500		3500			
381						
	2361		2261			
382+50						
	333		333			
383						
	TE. 200		200			
384+20						
384+50	272		245	27		
	977		977			
386						
	415		373	42		
+40						
	TE. 2000			2000		
388+50						
	421		421			
389						
	3723		3723			
391						
	3528		3175	353		
392+50						
	1509		1509			
393						
	843		843			
+50						
	TE. 250.0		250.0			
397	3456.1		3147.1	309.0		
	722		722			
+50						
399	3945		3748	197		
					270	
401	5240		4978	262		
	TE. 3000		3000			
401+70	1938		1938			
	514		412	102		
402+20						
403+20	TE. 250		250			
	770		770			
404						
406	4571		4571			
408	3852		3852			
409	1713		1713			
410	1889		1889			
413+25	9269		8342	927		
413+60	1462		1462			
414+10	292		292			
415+75						
416	146		146			
417	1472		1472			
419	2889		2889			
	78498		73920	4578	270	

403.

Sto		ydge	Earth	d.g.	S.R.	dry Wall
419						
	TE	20.0		20.0		
		244.5		232.3	12.2	
421						
		133.2		126.6	6.7	
422						
		185.2		175.9	9.3	
423						
		178.6		179.6		
424						
		138.9		132.0	6.9	
426						
		74.5		52.1	22.4	
427+50						
		213.9		171.1	42.8	
429						
		229.9		183.9	46.0	
430+50						
		198.6		188.7	9.9	
432						
		145.8		138.5	7.3	
433+50						
		69.5		59.1	10.4	
434						
434+40						
		23.2		23.2		
435						
		179.6		179.6		
436						
		18.5		18.5		
+25						
463+02						
		46.7		46.7		
+75						
		162.1		162.1		
465						
		324.1		324.1		
467						
		126.4		126.4		
+70						
		28.9		28.9		
468						
+25						
		22.2		22.2		
+50						
		355.6		320.0	35.6	
470+50						
		76.9		65.4	11.5	
471						
		32.4		24.3	8.1	
471+50						
	TE	20.0			20.0	
472						
		38.9		27.2	11.7	
+50						
		152.8		107.0	45.8	
473+50						
		125.9		113.3	12.6	
474+50						
		12.7		12.7		
+75						
	TE	20		20.0		
475						
		88.9		88.9		
476						
		189.9		151.1	27.8	
477						10.0
		31.1		28.0.0	3.1.1	
479						
		120.4		114.4	6.0	
480						
		37.4		32.4		
+50						
	TE	24.0		24.0		
481+40						
		21.4		21.4		
481+70						
		4347.8		3953.7	394.1	10.0

Sto		ydge	Earth	d.g.	S.R.	dry Wall
481+70						
		238.4		238.4		
483+50						
		140.1		140.1		
484+75						
		17.8		17.8		
485+10						
	TE	350.0		339.5	10.5	
488+50						
		30.6		21.4	9.2	
489						
		142.6		142.6		
490						
		375.7		341.7	38.0	
492						
		483.4		483.4		
494						
		451.9		429.3	22.6	10.0
496						
		426.0		426.0		
497						
		820.0		738.0	82.0	
499+75						
		375.0		356.3	18.7	
501+00						
		117.1		117.1		
+50						
		56.0		56.0		
502						
	TE	30.0		30.0		
+80						
		46.7		42.0	4.7	
503+50						
		312.8		294.1	15.7	
505+50						
		337.1		337.1		
507+50						
		186.1		186.1		
508+50						
		295.9		266.3	29.6	
510						
		221.3		199.2	22.1	
511						
		66.2		46.3	19.9	
+50						
		40.0			40.0	
512+70						
		40.0		37.0	3.0	
513						
		577.8		288.9	288.9	
515						
		214.8		214.8		10.0
516						
–		101.9		40.8	61.1	
+50						2.5
		383.4		230.0	153.4	
518						
		316.7		300.9	15.8	
519+50						
		407.4		407.4		
521+50						
		627.5		627.5		
524+30						
		24.1		24.1		
+50						
	TE	30.0		30.0		
525+20						
		36.1		36.1		
525+50						
		448.7		448.2		
527+50						
		385.2		385.2		
529+50						
		62.2		56.0	6.2	
530+20						
	TE	40.0		40.0		
531						
		62.2		62.2		
+40						
		9324.2		8477.8	844.4	45.0

Sta	Ydge	Earth	d.g.	S.R.	dryWall
530+40					
	93.1		93.1		
532					
	TE 10.0		10.0		
+60					
	53.3		53.3		
533					
	531.5		478.3	53.2	
535					
	509.3		437.9	71.4	
537					
	427.8		406.4	21.4	
539					
	402.5		362.2	40.3	
541+10					
	448.7		426.3	22.4	
543					
	474.1		474.1		
545					
	319.5		319.5		
546+50					
	46.3		46.3		
547					
	TE 50.0		50.0		
548+20					
	50.0		50.0		
+50					
550	388.9		388.9		
552	451.9		451.9		
554	533.4		533.4		
556	533.4		533.4		
556+50	66.7		66.7		
	TE 30.0		30.0		
557+30					
	16.9		16.9		
557+50					
	511.6		486.0	25.6	
560					
	440.3		418.8	22.0	
562					
	222.2		166.7	55.5	
563					
	137.5			137.5	
+50					
	330.6			330.6	
564+50					
	249.1		99.6	149.5	
565+50					125.0
	75.5		56.6	18.9	
566+25					
	219.5		87.8	131.7	
567+75					
	64.2		16.1	48.1	
568+30					
	30.0		30.0		5.0
569					
	55.6		13.9	41.7	
+50					
	333.4		266.7	66.7	
571					
	194.5		48.6	145.9	
572					
	167.6		167.6		
573					
	25.3		25.3		
+30					
	TE 50.0		50.0		
574+20					
	50.0		50.0		
+50					
	183.3		183.3		
575+60					
	36.7		36.7		
576					
Total	8814.3		7427.3	1387.4	130.0

Sta	Ydge	Earth	d.g.	S.R.	dryWall
576					
	371.1		371.1		
577+75					
	50.5		40.4	10.1	
580					
	692.6		192.6		
581					
	23.2		23.2		
+25					
	TE 50.0		50.0		
582+20					
	15.3		7.7	7.6	
+50					
	347		173	174	
583					
	129.6		129.6		
584					
	288.7		144.4	144.3	
586					
	16.7		16.7		
+50					
586+85					
	9.7		9.7		
587					
	49.1		49.1		
588+50					
	112.0		84.0	28.0	
589+50					
	301.4		271.3	30.1	
591					
	350.0		297.5	52.5	
592+50					
	174.1			174.1	
593+50					
	105.6		105.6		
594					
	83.3		83.3		
+50					
	TE 30.0		30.0		
595+30					
	23.3		23.3		
+50					
	183.3		155.8	27.5	
596+50					
	223.6		223.6		
598					
	385.2		385.2		
600					
	457.4		434.5	22.9	
602					
	164.8		148.3	16.5	
603					
	88.4		88.4		
+50					
	201.4		181.3	20.1	
605					
	50.9		50.9		
+50					
	TE 60.0		60.0		
606+50					
	36.1		32.5	3.6	
606+75					
6	331.0		331.0		
608					
	467.6		467.6		
610+50					
	13.3		13.3		
+70					
	TE 150.0		150.0		
612+50					
	40.7			40.7	
613					
	113.0			113.0	
+50					
	271.1		246.7	27.4	
614+50					
	64.8		64.8		
615					
Total	5716.5		4980.7	935.8	

Sta	Ydge	Earth	dg.	S.R.	dryWall.
615					
+50	37.5			37.5	
616+50	149.1		74.5	74.6	
618	200.		100.0	100.0	
619+50	177.8			177.8	
621+00	188.9		94.5	94.4	
623	262.0		222.5	39.5	
626	333.4		333.4		
627	111.1		88.9	22.2	
627+50	32.4		24.3	8.1	
628+70	T.E. 100.0		100.0		
629	58.3		58.3		
630	250.0		250.0		
+25	13.9		13.9		
630+80					
631+50	48.0		48.0		
633	205.6		195.3	10.3	
635	207.4		207.4		
636+50	194.5		194.5		
637+25	105.6		105.6		
637+35	50.0		50.0		
644+25	2776.5		2162.1	564.4	Tonnel N°4.
+35	48.9		48.9		
645	349.0		349.0		
647	240.8		216.7	24.1	
649	266.7		266.7		
650	188.9		188.9		
651+50	357.0		357.0		
652+20	75.8		75.8		
653+40	T.E. 50.0		50.0		
+50	10.0		10.0		
654+50	229.6		229.6		
656	320.9		320.9		
657	229.8		229.8		
659	422.3		422.3		
660+25	173.6		173.6		
660+50	20.8		20.8		
661+65	T.E. 40.0		40.0		
661+75	10.4		10.4		
663	187.5		159.4	28.1	
Total	5958.5		5341.9	616.6	

Sta	Ydge	Earth	dg.	S.R.	dryWall.
663					
+20	9.3		9.3		
+60					
663+80	15.6		13.2	2.4	
666	415.6		415.6		
668	444.5		444.5		
670	355.6		355.6		
672	296.3		222.2	74.1	
674	326.0		195.6	130.4	
675+50	163.9		122.9	41.0	40.0
676	68.1		51.1	17.0	
677+90	380.0		247.0	133.0	
679	212.9		106.5	106.4	
679+90	90.0		45.0	45.0	100.0
681	9.6		9.6		
682+10	234.3		234.3		
682+30	23.3		23.3		
+90	T.E. 60.0		60.0		
683+10	11.1		11.1		
684+25	123.5		123.5		
685+00	38.9		38.9		
686+30	15.6		15.6		
+50	233.4		233.4		
688	243.1		243.1		
689+50					
690	42.1		42.1		
690+50	36.1		36.1		
692+50	277.8		277.8		
693	69.5		69.5		
693+40	28.9		26.0	2.9	
693+85					
694	6.9		6.9		
+75	84.7		84.7		
695	16.7		16.7		
695+50					
696	33.3		33.3		
696+70	101.1		96.0	5.1	
697	23.3		22.1	1.2	
698+10	T.E. 20.0		T.E. 20.0		
698+50	36.3		21.8	14.5	
Total	4547.3		3974.3	573.0	140.0

Sta	ydge	E	d.g.	S.R.	dryWall
698+50					
	232.4		232.4		
700					
	162		138	24	
+25					
TE	50.0		50.0		
701+50					
	14.8		14.8		
701+70					
	215.5		215.5		
703					
	294.5		294.5		
705					
	207.4		197.0	10.4	
707					
	56.5		56.5		
+50					
	19.4		19.4		
+80					
708+25					
	11.6		11.6		
708+50					
	159.7		159.7		
710					
	216.7		216.7		
712					
	12.0		12.0		
712+25					
+70					
	19.4		19.4		
713					
	163.0		163.0		
714+10					
	25.0		25.0		
714+40					
TE	25.0		25.0		
714+95					
	11.6		5.8	5.8	
715+10					
	313.2		313.2		
717					
	98.2		98.2		
+50					
	19.4		14.5	4.9	
717+75					
TE	40.0		40.0		
719+20					
	60.0		60.0		
+50					
	255.6		230.0	25.6	
720+50					
	111.1		111.1		
721+50					
	22.2		22.2		
721+90					
722+25					
	9.3		9.3		
+50					
	109.7		109.7		
724+00					
	18.1		18.1		
+50					
TE	30.0		30.0		
725+45					
	52.8		52.8		
725+70					
	116.1		91.3	24.8	
726+25					
TE	40.0		40.0		
727+25					
	130		130		
+50					
	125.9		125.9		
728+50					
	69.5		69.5		
729					
Total	3255.8		3181.9	73.9	

Sta	ydge	E	d.g.	S.R.	dryWall
729					
	27.3		27.3		
+25					
TE	50.0		50.0		
730+25					
	12.7		12.7		
+50					
	246.3		246.3		
732+50					
	195.8		195.8		
734					
	283.4		269.2	14.2	
736					
	50.0		42.5	7.5	
+60					
TE	30.0		30.0		
737+25					
	16.7		11.7	5.0	
+50					50.0
	200.0		180.0	20.0	
739					
	150.0		60.0	90.0	
740					
	158.3		47.5	110.8	100.0
741					
	149.1		44.7	104.4	
742					
	165.8		41.5	124.3	
743					
	150.9		45.3	105.6	
744					
	200.0		60.0	140.0	
745+50					
	226.1		70.8	165.3	
747					
	208.4		62.5	145.9	
748+50					
	208.4		83.4	125.0	
750					
	296.3		177.9	118.4	
752					
	219.5		197.6	21.9	
753+50					
	40.7		36.6	4.1	
754					
TE	85.0		85.0		
755+50					
	55.6		55.6		
756					
	55.6		55.6		
+50					
	45.4		45.4		
757					
	96.3		96.3		
+50					
	176.9		176.9		
758+50					
	37.5		37.5		
759					
	37.5		33.7	3.8	
759+50					
	167.6		67.0	100.6	
760+50					
	27.8		7.0	20.8	
+80					50.0
761+35					
	48.2			48.2	
+75					
	152.8		61.1	91.7	
762+50					
	202.8		152.1	50.7	
764					
	13.0		13.0		
+25					
TE	35.0		35.0		
764+90					
	26.3			26.3	
765+25					
Total	4559.0		2914.5	1644.5	200.0

Sta	Ydge	E	D.G.	S.R.	dry Wall
765+25					
	93.8		65.7	28.1	
766+50					
	11.1		11.1		
+65					
767+10					
	27.8		25.0	2.8	
+35					
	33.3		30.0	3.3	
+65					
	T.E. 50.0		50.0		
768+50					
	30.6		27.5	3.1	
769+00					
	307.4		276.7	30.7	
770					
	185.2		185.2		
771					
	163.9		163.9		
772					
	259.3		259.3		
774					
	88.5		61.9	26.6	
+65					
	27.2		19.0	8.2	
775					
	T.E. 25.0		25.0		
776					
	18.5		18.5		
+25					
	124.3		49.7	74.6	
777					
	106.0		74.2	31.8	
778+50					
	250.0		200.0	50.0	
780					10.0
	41.7		20.9	20.8	
+50					
781+00					
	14.8		7.4	7.4	
+25					
	220.4		132.2	88.2	
783+00					
	62.5		46.9	15.6	
+50					
	29.2		26.3	2.9	
784					
	35.6		32.0	3.6	
+60					
	90.8		90.8		
785+50					
	20.8		20.8		
786					
	32.4		32.4		
+ +50					
	104.2		104.2		
787+25					
	18.5		18.5		
+50					
	T.E. 20.0		20.0		
788+00					
	20.8		20.8		
+25					
	223.6		223.6		8.0
790					
	67.6		60.8	6.8	
+50					
	68.1		68.1		
791+25					
	T.E. 30.0		30.0		
792+40					
	39.9		27.9	12.0	
792+75					
	379.2		379.2		
794+50					
	259.3		259.3		
796+50					
	3581.3		3164.8	416.5	18.0

Sta	Ydge	E	D.G.	S.R.	dry Wall
796+50					
	361.1		361.1		
799					
	48.9		48.9		
+55					
	T.E. 25.0		25.0		
800					
	33.3		21.6	11.7	
+50					
	191.7		134.2	57.5	
802					
	355.6		355.6		
804					
	126.4		101.1	25.3	
+75					
	108.3		97.5	10.8	
805+50					
	175.9		52.8	123.1	
806+50					
	262.5		78.8	183.7	
808					
	387.1		154.8	232.3	
810					
	337.1		134.8	202.3	
812					
	300.		210.0	90.0	
814					
	400		280.0	120.0	
815					
	400		320.0	80.0	
817					
	83.3		66.6	16.7	
+50					
	41.7		33.4	8.3	
818					
	22.2		13.3	8.9	
+50					
	63.9		38.3	25.6	
819					
	205.6		82.2	123.4	
820					
	429.7		107.4	322.3	
822					
	69.5		41.7	27.8	
+75					
	68.8		48.2	20.6	
823+50					
	237.5		166.2	71.3	
825					
	200.0		140.0	60.0	
826+50					
	33.3		23.4	9.9	
827					
	T.E. 20.0		20.0		
827+65					
	38.9		23.3	15.6	
828					
	194.5		116.7	77.8	
829					
	333.4		216.7	116.7	
831					
	300.0		210.0	90.0	
833					
	250.0		100.0	150.0	
835					
	216.7		65.0	151.7	
837					
	229.6		137.8	91.8	
839					
	230.4		161.3	69.1	
841					
	231.5		162.0	69.5	
843					
	229.6		160.7	68.9	
845					
	150.0		120.0	30.0	
846+50					
	83.3		75.0	8.3	
847					
76/01	7476.3		4705.4	2770.9	

Sheet #023

Sta	Ydge	D.E.	* Earth	S.R.	dry Wall.
847					
	81.0	20.3		60.7	
847+27					
	14.7	3.7		11.0	
847+35	95.7	24.0		71.7	
850+40					
	32.4	32.4			
850+50					
	469.9	329.9		141.0	
851+75					
	38.9	38.9			
852+50					
853+10					
+50	59.3	17.8		41.5	
	280.6	224.5		56.1	
854					
+50	19.4	19.4			
T.E.	20.0	20.0			
855+50					
	76.4	76.4			
855+75					
	90.3		67.7	22.6	
857					
-	101.8		76.3	25.5	
+70					
	31.1		31.1		
858					
T.E.	350.0		350.0		90
862+50					
	61.9		36.3	15.6	
863					
	72.2		50.5	21.7	
+50					
864	70.4		42.2	28.2	
	296.3		148.2	148.1	
866					
	180.6		135.4	45.2	
867+50					
	208.4		83.4	125.0	
869					
	200.0		50.0	150.0	
870+50					
	107.4		43.0	64.4	
871+50					
	111.1		77.8	33.3	
873					
	108.3		97.5	10.8	
874+50					
	179.6		143.7	35.9	
876+50					
	209.7		167.8	41.9	
878+00					
	250.0		150.0	100.0	
879+50					
	186.1		46.5	139.6	
880+50					
	54.2		13.6	40.6	
889					
T.E.	60.0		60.0		
892+50					
	45.4		26.2	9.1	
883					
	175.0		87.5	87.5	
884					
	42.1		10.5	31.6	
+50					
885					
	26.1		14.4	21.7	
+50					
	150.0		112.5	37.5	
886+50					
	314.8		220.4	94.4	
889					
	4776A	1823	2952.6	1640.5	9.0
	4679.1	2383		1518.8	

#5

17°24.

Sta	Ydge	D.E.	* Earth	S.R.	dry Wall.	Flood prone Ditch
889						
	81.5		73.3	8.2		
890						
	177.8		67.2	115.6		
892						
	289.7		247.0	77.4		
894+50						
	24.1		21.7	2.4		
+90						
T.E.	125.0		125.0			10.0
900+50						
	38.9		38.9			
901						
	77.8		70.0	7.8		
+50						
	19.5		17.5	2.0		
901+75						
T.E.	15.0		15.0			
902+70						
	13.3		12.0	1.3		
903						
	88.9		88.9			
904						
	156.9		141.2	15.7		
905+50						
	268.5		241.6	26.9		
907+50						
	25.9		18.1	7.8		
+85						
T.E.	10.0		10.0			
908+25						
	210.7		147.5	63.2		
908+50						
	243.1		170.2	72.9		
910						
	38.9		27.2	11.7		
910+50						
T.E.	150		150			
911+25						
	16.7		15.0	1.7		
911+50						
	222.2		200.0	22.2		
913+50						
	233.4		210.1	23.3		
915+50						
	68.5		17.1	51.4		
916						
	19.4		13.6	5.8		
+30						
T.E.	20.0		20.0			
917						
	27.8		16.7	11.1		
+50						
	244.5		207.8	36.7		
919+50						
	72.2		65.0	7.2		
920+25						
	38.9		31.1	7.8		
920+75						
	12.7		10.8	1.9		
921						
	111.1		100.0	11.1		
923						
	209.3		188.4	20.9		
925						
	177.8		106.7	71.1		
927						
	200.0		120.0	80.0		
929						
	231.5		162.0	69.5		
931						
	45.1		36.1	9.0		
+75						
T.E.	500		500			
933+50						
	333		333			
934						
	244.5		232.3	12.2		
936						
Totl.	4199.1		3348.3	850.8		10.0

M°25

Sta	Edge	E	D.G.	S.R.	adobe	dryWall
936						
	19.26	17.93		1.93		
938						
	20.74	19.70		1.04		
940						
	20.00	18.00		2.00		
942						
	35.56	33.78		1.78		
943						
	12.78	11.50		1.28		
+75						
	2.78	2.78				
944+50						
	3.89	3.50		.39		
+85						
	14.22	3.55		1.067		
945+25	129.23	110.14		19.09		
948+30						
	20.4	10.2		1.02		
+41						
	23.16			5.79	17.37	
949						
	29.08				29.08	
950						
	22.22				22.22	
952						
	21.76				21.76	
954+50						
	29.82				29.82	
958						
	25.93				25.93	
962						
	15.83				15.83	
965						
	23.75				23.75	
969+50						
	19.45				19.45	
972						
	22.86				22.86	
975						
	19.82			4.96	14.86	
977						
	11.20			4.48	6.72	
978						
	15.6			6.2	9.4	
+30						
	TE 7.50		7.50			
996						
	42.1		40.0	2.1		
+50						
	38.20		26.74	11.46		
998						
	50.00		35.00	15.00		
1000						
	29.63		23.70	5.93		
1002						
	39.59		27.71	11.88		
1004+50						
	38.34		23.00	15.34		
1006+50						
	35.56		21.34	14.22		
1008+50						
	11.67		10.50	1.17		
1010						
	3.11		2.80	.31		
1010+40						
	TE 2.50		2.50			
1011+40						
	2.89		2.89			
1012						
	16.95		16.95			
1013+50						
	20.74		20.74			
1015+50						
	13.61		12.93	.68		
1017						
	22.80		22.80			
1019+50						
Total	1135.1	1111.6	339.60	1121.6	250.59	

M°6

M°26

Sta	Edge	E	D.G.	S.R.
1019+50				
	29.63		26.67	2.96
1021+50				
	17.50		17.50	
1023				
	5.83		4.08	1.75
+50				
	1.94		1.36	.58
+80				
	TE 2.00		2.00	
1025				
	3.24		3.24	
+50				
	2.917		2.917	
1027				
	8.29		8.29	
+50				
	3.25		3.25	
1028+40				
	T.E. 25.00		25.00	
1035				
	10.00		10.00	
1035+50				
	7.167		7.167	
1036+50				
	13.06		13.06	
1038				
	3.85		3.85	
1038+80				
	1.04		1.04	
1039+25				
	14.03		12.63	1.40
1039+50				
	18.64		16.78	1.86
1041				
	3.47		3.47	
1042+25				
1042+60				
	T.E. 45.00		45.00	
1049				
	3.89		3.89	
+50				
	7.13		7.13	
1050				
	1.94		1.94	
+30				
	T.E. 5.00		5.00	
1052+50				
	18.1		12.7	5.4
1053				
	20.19		20.19	
1054				
	3.89		3.89	
1054+60				
	T.E. 2.00		2.00	
1055+50				
	3.89		3.50	.39
1056				
	33.34		30.01	3.33
1058+50				
	4.72		4.72	
1059+35				
	T.E. 1.50		1.50	
1060				
	2.59		2.59	
1060+50				
	20.74		20.74	
1062+50				
	12.13		12.13	
1063+50				
	7.29		6.56	.73
1064+25				
	28.19		26.78	1.41
1065+50				
	25.93		25.93	
1068				
	18.15		19.15	
1070				
Total	510.93		459.8	19.95

Sta	Vdge	E	DG	SR.
1070				
	428		385	4.3
1071+10				
	2250		2250	
1072+70				
	311		311	
1078				
	1269		1269	
+50				
	2639		2639	
1080+50				
	1037		1037	
1082+50				
	1222		1222	
1084				
	1278		1278	
+50				
	3775		3778	
1086				
	852		852	
1087				
	167		167	
+50				
	TF 350		350	
1088				
	162		162	
+25				
	3209		3209	
1090+50				
	1945		1945	
1092				
	5037		5037	
1094				
	2695		2695	
1095				
	1625		1625	
1096+50				
	1139		1139	
1097				
	1700		1700	
1097+90				
	TE 250		250	
1099				
	241		241	
+50				
	796		796	
1100				
	778		778	
+70				
	156		156	
1101+20				
	907		907	
1101+50				
	1556		1556	
1102+50				
	194		194	
1104+50				
1105				
	TE 400		400	
1106+80				
	52		52	
1107				
	370		296	7.4
+50				
	722		722	
1108+50				
	1370		1270	
1110+50				
	2000		2000	
1112+50				
	1823		1823	
1114+50				
	1685		1685	
1116+50				
	1053		1053	
1117+75				
	1854		1854	
1118+50				
Totals	49310		49193	11.9

Sta	Vdge	E	DG	SR.
1118+50				
	2472		2472	
1119+50				
	722		722	
1120+50				
	397		397	
1121+60				
1122				
	194		194	
+50				
	583		583	
1123				
	1750		1750	
1124+50				
	194		194	
1125				
	278		278	
+50				
	2797		2797	
1127+50				
	3695		3695	
1130+50				
	156		156	
+90				
	TE 600		600	
1134+50				
	111		111	
+75				
	972		923	4.9
1136				
	1389		1389	
1138				
	1389		1389	
1140				
	1111		1111	
1142				
	222		222	
1143				
	556		556	
1144+25				
	556		556	
1145+50				
	2111		2111	
1146+90				
	10695		10695	
1148				
	1125		1125	
1148+15	35075		35076	1.9
1167+00				
	819		819	
1167+10				
	14168		14168	
1168				
	10890		10890	
1169				
	9334		9334	
1171				
	3334		3334	
1173				
	1185		1185	
1175				
	1296		1296	
1177				
	1500		1500	
1179				
	1611		1611	
1181				
	482		482	
1181+50				
	389		389	
1182+25				
	TE 1250		1250	
1187				
	222		222	
+50				
	1407		1407	
1189+50				
	82796		82743	4.9
	47887		47887	0.0

M°7.

Sta	Ydge	E	D.G.	S.R.
1189+50				
	1037		1037	
1191+50				
	1185		1185	
1193+50				
	1778		1778	
1195+50				
	1556		1556	
1197+50				
	1333		1333	
1199+50				
	2006		2000	
1201+50				
	3056		3056	
1203+50				
	2722		2722	
1205+50				
	1556		1556	
1207+50				
	2496		2496	
1209+25				
	882		882	
1210+10				
	1250		1250	
1213+25				
	83		83	
+50				
	889		889	
1215				
	1296		1296	
1217				
	1250		1250	
1218+50				
	222		222	
1219				
	TE 2500		2500	
1226+25				
	512		461	5.1
1226+75				
	1330		1197	13.3
1227+40				
	TE 200		200	
1228+40				
	133		133	
1229				
	917		917	
1230+50				
	2852		2709	14.3
1231+50				
	3202		3042	16.0
1232+80				
1233+20				
	500		500	
+70				
	1452		1452	
1234+50				
	222		222	
1235				
	TE 100		100	
+40				
	117		117	
+75				
	1500		1425	7.5
1238				
	992		993	
+75				
	1000		1000	
1239+50				
	167		167	
1240				
	130		130	
1240+50				
	777		778	
1242				
	963		963	
1244				
	1482		1482	
1246				
Totals	45641		4507.9	56.2

Sta	Ydge	E	D.G.	S.R.
1246				
	648		648	
1247+25				
	TE 100		100	
1248+50				
	194		194	
1249				
	1556		1556	
1251				
	1556		1556	
1253				
	194		194	
+50				
	TE 200		200	
1255				
	65		65	
+50				
	833		833	
1258				
	907		907	
1259				
	1815		1815	
1261				
	1417		1417	
1262+50				
	444		444	
1263+30				
	363		363	
1264				
	1593		1593	
1266				
	1945		1945	
1268				
	2384		2384	
1270+50				
	2963		2963	
1272+50				
	356		356	
1272+80				
	TE 250		250	
1274				
	241		241	
+50				
	1926		1830	9.6
1276+50				
	1556		1556	
1278				
	1833		1833	
1280				
	1009		1009	
1281				
	2019		2019	
1283				
	1083		1083	
1284+50				
	361		361	
1285+50				
	TE 100		100	
1286+50				
	167		167	
1287				
	1333		1333	
1289				
	1389		1389	
1291				
	181		181	
+50				
	194		194	
1292				
	1389		1389	
1294				
	792		792	
1295+50				
	111		111	
1296				
1297+25				
	625		625	
1298				
Totals	3609.2		3599.6	9.6

Sta	Ydge	E	D.E.	S.R.
1298				
	358.4		340.5	17.9
1299+50				
	337.1		1685	168.6
1300+50				
	501.4		401.1	100.3
1302				
	204.6		204.6	
1303				
	74.1		74.1	
1304				
	111.1		111.1	
1306				
	163.0		163.0	
1308				
	130.6		130.6	
1309+50				
	113.0		113.0	
1311+50				
	168.5		168.5	
1313+50				
	168.5		168.5	
1315+50				
	69.5		69.5	
1316+50				
	25.9		25.9	
1317				
	TE 150.0		150.0	
1320+50				
	24.0		24.0	
1321				
	168.5		168.5	
1323				
	144.5		144.5	
1325				
	168.5		160.1	8.4
1327				
	126.4		75.8	50.6
1328+50				
	27.1		16.3	10.8
1329+25				
	29.2		29.2	
1330				
	100.0		100.0	
1332				
	44.4		44.4	
1334				
	22.2		22.2	
1336				
	24.1		24.1	
1337				
	100.0		100.0	
1339				
	97.2		97.2	
1340+25				
	194.5		194.5	
1341+75				
	42.8		38.5	4.3
1342+30				
	TE 350.0		350.0	
1349+50				
	32.4		32.4	
1350				
	252.8		151.7	101.1
1351+50				
	155.6		140.0	15.6
1352+50				
	20.7		20.7	
+90				
	TE. 40.0		40.0	
1354+20				
	19.4		19.4	
1354+50				
	90.7		90.7	
1355				
	58.2		58.0	
+50				
	0.0		0.0	
+75				
	4909.0		4431.4	477.6

Sta	Ydge	E	D.E.	S.R.	deg W.
1355+75					
	15.0		15.0		
1356					
	301.0		301.0		
1358+50					
	108.3		108.3		
1360+25					
	158.3		150.4	7.9	20.0
1361					
	136.8		136.8		
+75					
	49.3		37.0	12.3	
1362+50					
	80.6		20.2	60.4	
1363+50					
	132.4		92.7	39.7	
1365+50					
	275.9		248.3	27.6	
1367					
	266.7		266.7		
+50					
	125.0		125.0		
1368+10	8.33		7.50	8.3	
	TE. 350.0		350.0		
1374+70					
	14.4		14.4		
1375					
	288.9		288.9		
1377					
	227.8		205.0	22.8	
1379					
	100.9		100.9		
1380					
	240.8		240.8		
1382					
	200.0		200.0		
1384					
	105.6		105.6		
1385					
	61.1		61.1		
1386					
	TE. 25.0		25.0		
1387					
	51.2		51.2		
+25					
	187.7		155.3	27.4	
1388					
	90.7		63.5	27.2	
1389					
	20.7		14.5	6.2	
+40					
	TE. 40.0		40.0		
1391+85					
	39.1		33.2	5.9	
1392					
	45.1		29.3	15.8	
1392+75					
	TE. 75.0		75.0		10.0
1395					
	51.9		46.7	5.2	
1395+50					
	238.9		215.0	23.9	
1397					
	110.4		66.2	44.2	
+75					
	238.2		226.3	11.9	
1399+50					
	41.7		41.7		
1400					
	13.6		13.6		
+35					
	TE. 25.0		25.0		
1401					
	18.1		18.1		
+50					
	37.5		37.5		
1402					
	25.3		25.3		
+65					
	4692.2		4345.5	346.7	30.0

17°33

Sta	Ydge	E	D.G.	S.R.	dry Wall
1402+65					
	T.F. 200		20.0		
1403+50					
	22.2		22.2		
1404					
	38.9		38.9		
1 +50					
	11.7		11.7		
+85					
	16.2		14.7	1.6	
1405+05					
	210.7		210.7		
+50					
	14.4		14.4		
1408					
	31.1		31.1		
+30					
	209.3		209.3		
1409					
	187.1		187.1		
1411					
	16.7		16.7		
1413					
+50					
1414+80					
	28.9		27.5	1.4	
1415					
	207.4		197.0	10.4	
1417					
	222.2		211.1	11.1	
1419					
	179.6		143.7	35.9	
1420+50					
	109.3		87.4	21.9	
1421+50					
	109.2		103.8	5.5	.50
1422+50					
	113.0		101.7	11.3	
1423+50					
	120.4		108.4	12.0	
1424+75					
	197.7		177.9	19.8	
1426+50					
	71.3		64.2	7.1	20.0 @ 2.00 prof.
1427+60					
	222		222		
1428					
	231.5		231.5		
1430					
	216.7		173.4	43.3	
1431+50					
	216.7		184.2	32.5	
1433					
	104.6		94.1	10.5	
1434					
	133.3		106.7	26.6	
1435+50					
	100.0		60.0	40.0	
1436+50					
	55.6		52.8	2.8	
1437+50					
	50.9		48.3	2.6	
1438+50					
	45.8		42.5	3.3	
1439					
	165.6		165.6		
1440+50					
	86.6		86.6		
1441					
	137.0		137.0		
1442					
	159.3		159.3		
1443					
	63.0		63.0		
+50					
1456+75	T.F. 800		750.0	50.0	
	47263		4377.7	348.6	25.0

17°34

Sta	Ydge	E	D.G.	S.R.
1455+75				
	9.0		5.4	3.6
1456				
	18.1		16.3	1.8
1457+50				
	6.48		6.48	
1458+50				
	201.9		191.8	10.1
1460+50				
	151.4		151.4	
1461+50				
	167.8		167.8	
1462+75				
	24.3		24.3	
1463+10				
T.F.	10.0		10.0	
1463+60				
	16.7		16.7	
1464				
	187.1		177.7	9.4
1466				
	13.6		12.9	.7
1467+50				
	38.9		38.9	
1468+50				
	13.0		13.0	
1469				
	129.6		129.6	
1471				
	155.6		155.6	
1473				
	142.6		142.6	
1474				
	163.0		163.0	
+50				
	261.1		235.0	26.1
1475+50				
	94.5		89.8	4.7
1476+50				
	147.9		147.9	
1477+25				
	382.5		344.2	38.3
1477+95				
	120.2		96.2	24.0
1478+16				
	260		260	
1478+25	2539.6		2420.9	118.7
1480+90				
	289		289	
1481				
	227.8		227.8	
+50				
	111.1		111.1	
1482				
	218.5		218.5	
1484				
	162.5		162.5	
1485+50				
	216.7		206.9	10.8
1487+50				
	64.8		64.8	
1488+50				
	81.5		81.5	
1489+50				
	94.5		94.5	
1491+50				
	103.7		103.7	
1492+50				
	116.7		116.7	
1494				
	6.5		6.5	
+50				
LT	40.0		40.0	
1496+50				
	25.9		25.9	
1497				
	181.5		181.5	
1498				
	42720		40907	1295

17°8.

Sta	Ydge	E	D.E.	S.R.	dryWall
1499					
	207.4		207.4		
1501					
	222.4		222.4		
1502+50					
	350.0		350.0		
1503					
	202.8		202.8		
1504					
	187.1		187.1		
1506					
	46.8		46.8		
+50					
	18.1		18.1		
1506+80					
	T.E. 50.0		50.0		
1508+50					
	32.4		32.4		
1509					
	98.2		98.2		
1510					
	147.2		147.2		
1511+50					
	87.0		87.0		
1512+50					
	87.0		87.0		
1513+50					
	100.9		100.9		
1514+50					
	112.5		112.5		
1516					
	38.9		38.9		
1517					
					1.50
+75					
	5.6		5.6		
+50					
	87.0		69.6	17.4	
1518					
	64.8		64.8		
1519					
	69.5		69.5		
1520					
	91.7		91.7		
1521					
	111		111		
+50					
	T.E 90.0		90.0		20.0
1524					
	22.8		11.1	16.7	
+50					
	177.8		124.5	53.3	
1526+50					
	133.3		93.3	40.0	
1528					
	233.4		140.0	93.4	
1529+75					
	19.4		19.4		
1530					20.0
+50					
	18.1		18.1		
1531					
	113.9		91.1	22.8	
1532					
	179.2		161.6	18.0	
1533					
	157.4		94.4	63.0	
1534					
	214.8		182.6	32.2	
1536					
	77.8		70.0	7.8	
1537					
	150.9		150.9		
1538					
	149.1		149.1		
1539					
	161.1		161.1		
1540+50					
	#293.8		3869.2	364.6	55.0

Sta	Ydge	E	D.E.	S.R.	dryWall
1540+50					
	83.8		83.8		
1541					
	335.4		335.4		
1543+25					
	37.4		37.4		
1543+75					
	93.8		93.8		
1544+50					
	62.5		62.5		
1545					
	T.E 40.0		40.0		
+80					
	50.0		50.0		
1546+25					
	55.6		55.6		5.0
+75					
	40.2		36.2	4.0	
1547+80					
	219.5		186.6	32.9	
1549					
	151.9		60.8	91.1	
1550					
	66.7		60.0	6.7	
+50					
	13.9		12.5	1.4	
+75					
	T.E 25.0		25.0		25.0
1551+50					
	38.9		19.5	19.4	
1552					
	138.9		118.1	20.8	
1553					
	120.4		84.3	36.1	
1554					
	134.3		80.6	53.7	
1555					
	56.3		14.1	42.2	
+75					
	50.0		30.0	20.0	
1556+50					
	222.2		200.0	22.2	
1558					
	230.6		196.0	34.6	
1559+50					
	205.6		185.0	20.6	
1561					
	180.6		108.4	72.2	
1562+50					
	83.3		75.0	8.3	
1563					
	166.7		116.7	50.0	
1564					
	19.4		14.5	4.9	
+35					
	T.E 75.0		75.0		
1565+40					
	27.8		25.0	2.8	
1566					
	124.1		99.3	24.8	
1567					
	38.9		19.5	19.4	
+50					
	T.E 70.0		70.0		40.0
1568+75					
	55.6		44.5	11.1	
1569+25					
	125.0		87.5	37.5	
1570					
	27.8		19.5	8.3	
+50					
	T.E 80.0		80.0		25.0
1571+85					
	31.1		29.5	1.6	
1582+25					
	201.4		201.4		
1573+50					
	157.4		125.9	31.5	
1574+50					
	3932.1		3254.0	678.1	160.0

N°37

Sta	Ydgo	E	D.G.	S.R.	dry Wall
1574+50					
	116.7		93.4	23.3	
1575+50					
	105.6		89.8	15.8	
1576+50					
	22.2		18.9	3.3	
1577					
	T.E. 100.0		100.0		20.0
1579					
	40.7		38.7	2.0	
1579+50					
	247.2		185.4	61.8	
1581					
	296.3		74.1	222.2	
1583					
	116.7		81.7	35.0	
1584					
	96.3		86.7	9.6	
1585					
	177.8		160.0	17.8	
1587					
	15.6		14.0	1.6	
+35					
	T.E. 25.0		25.0		
1588					
	33.3		31.6	1.7	
+50					
	72.2		65.0	7.2	
1590					
	138.9		76.4	62.5	
1591					
	105.6		84.5	21.1	
1592					
	185.2		175.9	9.3	
1594					
	129.1		129.1		
+85					
	89.1		89.1		
1595+50					
	138.9		132.0	6.9	
1596+75					
	42.8		38.5	4.3	
1597+30					
	T.E. 75.0		75.0		
1598+60					
	31.1		29.5	1.6	
1599					
	222.2		200.0	22.2	
1600+25					
	194.4		155.5	38.9	
1601+50					
	133.3		120.0	13.3	
1602+50					
	213.9		192.5	21.4	
1604					
	173.6		121.5	52.1	
1605+50					
	61.1		55.0	6.1	
1606+25					
	53.5		48.1	5.4	
1607					
	107.4		96.7	10.7	
1608					
	133.3		120.0	13.3	
1609					
	20.0		18.0	2.0	
+30					
	T.E. 75.0		75.0		
1610+65					
	48.6		48.6		
1611					
	199.1		199.1		
1612					
	231.5		219.9	11.6	
1614					
	106.5		95.8	10.7	
1615					
	106.5		106.5		
1617					
	4481.7		3766.5	714.7	20.0

N°38

Sta	Ydgo	E	D.G.	S.R.	dry Wall
1617					
	95.8		95.8		
+75					
	18.1		16.3	1.8	
1618					
	T.E. 40.0		40.0		
+85					
	13.8		13.8		
1619					
	147.2		132.5	14.7	
1620					
	183.3		155.8	27.5	
1622					
	183.3		165.0	18.3	
1624					
	173.6		138.9	34.7	
1625+25					
	12.5		12.5		
1625+40					
					20.0
1625+70					
	19.9		15.9	4.0	
1626					
	266.7		240.0	26.7	
1628					
	183.3		183.3		10.0
+50					
	27.8		27.8		
16 1629					
	T.E. 40.0		40.0		
1630					
	45.4		40.9	4.5	
+50					
	150.9		150.9		
1631+50					
	132.4		132.4		
1632+50					
	28.9		28.9		
+90					
	T.E. 35.0		35.0		
1633+80					
	37.9		32.2	5.7	
1634+25					
	111.8		88.3	23.5	
1635					
	62.5		56.2	6.3	
+50					
	39.1		35.2	3.9	
1636+15					
	T.E. 10.0		10.0		
+50					
	25.9		25.9		
1637					
	87.5		78.7	8.8	
+75					
	16.2		14.6	1.6	
1639					
	205.6		185.0	20.6	
1640+50					
	225.0		202.5	22.5	
1642					
	116.7		105.0	11.7	
+75					
	84.3		84.3		
1643+25					
	22.7		22.7		
1643+50					
	T.E. 20.0		20.0		
1644+10					
	40.0		36.0	4.0	
+50					
	155.6		140.0	15.6	
1645+50					
	220.4		187.3	33.1	
1646+50					
	48.6		43.7	4.9	
1647+25					15.0
	13.9		12.5	1.4	
1647+50					
	3341.6		3045.8	295.8	15.0

Sta	Ydge	E	D.G.	S.R.	dry wall	
1647+50						
	104.2		93.8	10.4		
1648						
	375.0		337.5	37.5		
1649+50						
	162.1		162.1			
1650+50						
	113.9		91.1	22.8		
1651						
	188.9		188.9			
1652						
+50						
	99.1		89.2	9.9		
	311.1		280.0	31.1		
1653+50						
	69.5		62.5	7.0		
1654						
	TE 40.0		40.0			
+90						
	46.7		42.0	4.7		
1655+50						
	46.7		46.7			
1656+10						
	TE 50.0		50.0			
1657+40						
	10.4		9.4	1.0		
1657+50						
	213.9		192.5	21.4		
1659						
	71.2		64.2	7.1		
+50						
	15.6		9.4	6.2		
1659+80						
	TE 60.0		60.0		15.0	
1661						
	32.4		29.2	3.2		
+50						
	213.9		213.9			
1663						
	142.6		128.3	14.3		
1664						
	58.3		52.5	5.8		
+50						
	13.5		13.0		5.0	
1664+75						
	127.3		127.3			
1665						
	67.6		60.8	6.8		
+50						
	41.7		37.5	4.2		
1668						
	198.6		198.6			
1669+50						
	135.4		135.4			
1670+75						
	15.1		15.1			
1671					5.0	
	38.9		38.9			
1671+50						
	225.0		191.2	33.8		
1673						
	78.2		70.4	7.8		
+50						
	77.1		69.4	7.7		
1674+25						
	62.1		53.0	9.1		
1675+50						
	158.3		142.5	15.8		
1677						
	155.6		132.3	23.3		
1678						
	31.1		31.1			
+40						
	TE 16.0		16.0			
1679						
	32.4		27.5	4.9		
+50						
	233.4		233.4			
1681						
Totals	4127.4		3830.6	295.8	25.0	

Sta	Ydge	E	D.G.	S.R.	C.G.	Adobe
1681						
	113.0		79.1	33.9		
1682						
	38.6		34.2	3.8		
+75						
	75.0		67.5	7.5		
1683+25						
	116.7		116.7			
1684						
	142.6		142.6			
1685						
	129.8		129.8			
1686						
	124.1		124.1			
1688						
	64.8		64.8			
1689						
	84.7		84.7			
1690+50						
	124.1		124.1			
1692+50						
	155.6	124.5			31.1	
1694						
	98.2	88.4			9.8	
1695						
	113.9				113.9	
1696+50						
	194.5				194.5	
1698						
	77.8				77.8	
+75						
	6.5				6.5	
1699						
	120.0	60.0			60.0	
1704+40						
	36.1	18.1			18.0	
1705						
	177.8	88.9			88.9	
1707						
	163.0	81.5			81.5	
1709						
	131.5	98.6			32.9	
1710						
	194.5	175.0			19.5	
1711+50						
	194.5	175.0			19.5	
1713						
	259.3				25.9	233.4
1715						
	233.4				23.3	210.1
1716+50						
	244.5				24.5	220.0
1718						
	300.0				30.0	270.0
1720						
	311.1				31.1	280.0
1722						
	233.4				23.3	210.1
1723+50						
	129.6					129.6
1724+50						
	25.9					25.9
1725						
	TE 150.0					150.0
1728+75						
	9.7					9.7
1729						
	151.9					151.9
+50						
	129.6					129.6
1730+50						
	64.8					64.8
1731						
	19.4					19.4
+30						
	TE 100.0					100.0
1734+50						
	25.9					25.9
1735						
Totals	4975.2	910.0	977.6	45.2	912.0	2130.4

Sta	Ydge	E	D.G.	S.R.	C.G.	Adobe	Rubble Masonry	Concrete
1735								
	58.3					58.3		
+50								
	129.6					129.6		
1736+50								
	181.5					181.5		
1738+50								
	207.4					207.4		
1740+50								
	103.7					103.7		
1741								
	168.5					168.5		
1742								
	38.9					38.9		
1743								
	118.5	59.3			59.2			
1744								
	435.2				130.6	304.6		
1745								
	306.5				229.9	76.6		
+50								
	418.6				418.6			
1746+50								
	61.1				61.1			
1747							4.0	1.7
	2227.8	59.3			899.4	1269.1	4.0	1.7
					✓	✓	✓	✓
		✓						

Sheet No	Station	Cu. yds.	Disintegrated Granite.	Solid Rock.	Cemented Gravel.	Adobe.	Earth	Dry Wall	Rubble Masonry.	Concrete.	Rock Fill.
	0										
1	to 44+50	7322.1	5346.9	1078.8	610.3		286.1	10.6			
2	to 81+75	13186.9	10966.9	2015.5			204.5				
3	107+50	3588.8	3202.8	132.8			253.2				
4	156+90	4257.8	3806.7	451.1				30.0			100.
5	180+00	6104.1	5812.0	292.1				8.0			
6	205+40	5311.2	5135.7	175.5				75.0			60
7	230+25	4779.9	4371.7	408.2				20.0			
8	252+75	4741.7	4594.9	146.8				10.0			
9	278+40	3154.7	2929.7	225.0				92.0			
10	311+25	5338.7	5007.6	331.1				10.0			
11	357+30	8096.2	7547.0	549.2				40.0			
12	419+00	7849.8	7392.0	457.8				27.0			
13	481+70	4347.8	3953.7	394.1				10.0			
14	531+40	9324.2	8477.8	846.4				45.0			
15	576+00	8814.7	7427.3	1387.4				130.0			
16	615	5716.5	4980.7	735.8							
17	663+00	5958.5	5341.9	616.6							
18	698+50	4547.3	3974.3	573.0				140.0			
19	729+00	3255.8	3181.9	73.9							
20	765+25	4559.0	2914.5	1644.5				200.0			
21	796+50	3581.3	3164.8	416.5				18.0			
22	847+00	7476.3	4705.4	2770.9							
23	889+00	4775.4	782.3	1640.5			2352.6	9.0			
24	936+00	4199.1		850.8			3348.3		plastered 10.0		
25	1019+50	8135.1	3396.0	1121.6		2505.9	1111.6				
26	1070	5109.3	4959.8	149.5							
27	1118+50	4931.0	4919.3	11.7							
28	1189+50	8296.2	8291.3	4.9							
29	1246	4564.1	4507.9	56.2							
30	1298	3609.2	3599.6	9.6							
31	1355+75	4909.0	4431.4	477.6							
32	1402+65	4692.2	4345.5	346.7				30.0			
33	1455+75	4726.3	4377.7	348.6				5.0		200 @ 200 per yd.	
34	1499	4220.2	4090.7	129.5							
35	1540+50	4233.8	3869.2	364.6				55.0			
36	1574+50	3932.1	3254.0	678.1				160.0			
37	1617	4481.2	3766.5	714.7				20.0			
38	1647+50	3341.6	3045.8	295.8				45.0			
39	1681+00	4126.4	3830.6	295.8				25.0			
40	1735	4975.2	977.6	45.2	912.0	2130.4	910.0				
41	1747+00	2227.8			899.4	1269.1	59.3		40	1.7	
		220,798.5	180,681.4	23264.4	2421.7	59054	85256	1214.6	34.0	1.7	160.0

Station	Cuyds	D.G.	S.Rock.	C Gravel	Adobe	Earth	Dry Wall	Rubble Masonry	Concrete	Back Fill
0 to 112+66 N°1 Tun. No.1	17148.7	13701.6	1994.8	610.3		8420	350			
115+90 to 185+30 N°2 Tun No.2	10373.6	9763.9	609.7				130			100.0
187+57 to 373+00 N°3 Tun. No3.	33787.6	31642.8	2144.8				242.0			60.0
397+00 N°4 637+35 Tun. No.4	35323.4	31246.5	4076.9				212.0			
644+25 N°5 847+35 Tun No.5	26747.4	21144.7	5602.7				358.0			
850+40 N°6 945+25 Tun. No.6	10171.1	758.3	2610.5			6802.3	9.0	10.0	plastered rubble	
948+30 N°7 1148+15 Tun. No.7	20390.6	16777.7	1096.8		2505.9	10.2				
1167+00 N°8 1479+25 Tun No.8.	29829.1	28471.7	1357.4				35.0	20.0	@ 200 per yd	
1480+90 1749+00	28998.7	20413.5	2405.0	1811.4	3399.5	969.3	305.0	4.0	1.7	
	212770.2	179920.7	21898.6	2421.7	5905.4	86238	1209.0	34.0	1.7	160.0
	215239.0	175506	22408.	2363.0	6364.0					
		1586								

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Business Records - Water Companies - Cuyamaca Water Company - Flume line: traverse notes on El Monte to Lankershim Tunnels and excavation notes