Levels for Road in Rose Cañon from the end of Graded Road to connection with Main Line.

Page 3 to 19.

From Sta. 80 ("Rose Cañon line") through Sorrento to City limits.

Page 21 to 50

From Sta. 99+00 to Station 111+35 "Sorrento Line"

Page 51 to 52

Levels along center of Alley between 1st and 2nd "Univ. to Walnut"

Page 53 to 56

Levels along center of Alley between [illegible] Page 57 to 61

[illegible] along center of Alley [illegible] Page 62 to 68

Levels along the center line of Road from Old Town to the City limits.

Page 69 to 100

Levels for Road from the [illegible] of Taylor [illegible] Hickory [illegible]

F.B. 127

Return to Engineers Office
City [illegible] San Diego, Cal.
127

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.72	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

MICROFILMED
1964

Published by H. S. Crocker Company, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.

127

Book no. 127

name

date

Pacific Beach Reservoir

1 — 6 — 50.00

Sta.	Slope	Left	Center	Right	Slope
	47.6 / 14 / 2.4	49.0 / 10 / 1.0	49.3	49.2 / 8 / 0.8	49.0 / 5 / 1.0
0					
	44.6 / 18 / 5.4	48.4 / 10 / 1.6	48.6	48.8 / 10 / 1.2	42.8 / 23 / 7.7
+50					
	42.0 / 24 / 8.0	48.4 / 10 / 1.6	48.5	48.7 / 10 / 1.3	37.7 / 27 / 12.3
1					
	45.8 / 16 / 4.2	48.8 / 10 / 1.2	48.8	48.9 / 10 / 1.1	43.1 / 21 / 6.9
+50					
	46.1 / 16 / 3.9	48.9 / 10 / 1.1	48.8	48.6 / 10 / 1.4	46.5 / 16 / 3.5
2					
	45.3 / 16 / 4.7	48.5 / 10 / 1.5	48.8	48.6 / 8 / 1.4	43.8 / 16 / 6.2
+50					
	40.4 / 26 / 9.6	48.4 / 10 / 1.6	48.1	47.7 / 12 / 2.3	37.8 / 30 / 12.2
3					
	38.0 / 24 / 12.0	48.6 / 10 / 1.4	48.2	46.4 / 13 / 3.6	45.7 / 31 / 17.3
+50					
	36.0 / 24 / 14.0	48.0 / 10 / 2.0	48.1	44.5 / 15 / 5.5	35.0 / 35 / 15.0
4					
	36.0 / 24 / 14	48.2 / 10 / 1.8	47.9	46.0 / 15 / 4.0	35.5 / 33 / 14.5
+50					
	44.0 / 20 / 6.0	48.9 / 10 / 1.1	49.0	43.7 / 13 / 6.3	
5					
	44.5 / 18 / 5.5	48.9 / 10 / 1.1	49.2	49.1 / 2 / 0.9	48.2 / 6 / 1.8
+25					

surface grade

2

Area Sq. ft.	Cu. ft.
16.0	
	1712.5
52.5	
	9092.5
311.2	
	10855.0
123.0	
	4680.0
64.2	
	4072.5
98.7	
	11247.5
351.2	
	14555.0
231.0	
	17365.0
463.6	
	23310.0
468.8	
	14465.0
109.8	
	1942.5
45.6	

27) 113297.5 (4196 Cu. yds.

108
52
27
259
243
167
162

1/9/02 Levels for the Proposed extension of Road in Pore Cañon from the end of graded road to connection with "Main Line"

Sta.	+	0	−	Rod	Elev.
B.M. (#30)	12.00	402.79			390.79
= 199+22					
102+08.7				13.3	389.49
102				12.9	389.89
+50				10.1	392.69
101				7.2	395.59
+50				5.1	397.69
100				3.3	399.49
+50				2.5	400.29
99				2.0	400.79
+50				1.6	401.19
98				1.3	401.49
+50				1.0	401.79
T.P.	4.11	406.10	0.80		401.99
97				4.8	401.30
+51 △				4.8	401.30
96				4.8	401.30
+50				4.9	401.20
	16.11		0.80		

Sta.	+	0	−	Rod	Elev.
95				5.9	400.20
+50				7.2	398.90
94				8.6	397.50
+50				9.6	396.50
93				10.0	396.10
+50				9.1	397.00
92				8.6	397.50
+50				7.1	399.00
91				5.5	400.60
T.P.	1.68	402.39	5.39		400.71
+50				0.7	401.69
90				0.5	401.89
+50				1.3	401.09
89				2.9	399.49
+50				5.4	396.99
88				7.2	395.19
+50				9.8	394.59

Sta.	+	⊙	−	Rod	Elev.
T. P.	0.86	391.66	11.59		390.80
87				2.2	389.46
+50				3.8	387.86
86				4.3	387.36
+50				7.0	384.66
85				8.5	383.16
+50				9.7	381.96
84				11.4	380.26
+50				11.9	379.76
T. P.	1.70	381.89	11.47		380.19
83				2.2	379.69
+50				2.6	379.29
82				4.4	377.49
+50				6.6	375.29
81				5.8	376.09
+50				7.1	374.79
B.M. (#36)				3.17	378.72
	2.56		22.06		

Sta.	+	⊙	−	Rod	Elev.
Elev. 80				9.23	372.66
+50				8.7	373.19
79				9.0	372.89
+50				10.7	371.19
T. P.	0.79	371.85	10.83		371.06
78				2.6	369.25
+50				4.8	367.05
77				6.6	365.25
+50				7.9	363.95
76				9.3	362.55
T. P.	1.00	361.33	11.52		360.33
+50				1.8	359.53
75				4.2	357.13
+50				5.8	355.53
74				6.9	354.43
+50				7.5	353.83
73				7.4	353.93
	1.79		22.35		

Sta.	+	0	−	Rod	Elev.
+50				8.6	352.73
72				10.1	351.28
+50				11.6	349.73
T. P.	1.45	351.25	11.53		349.80
71				2.6	348.65
70+50				2.1	349.15
69+93				4.4	346.85
+50				6.9	344.35
69				9.9	341.35
T. P.	0.63	340.03	11.85		339.40
+50				2.3	337.73
68				3.7	336.33
+50				5.2	334.83
67				9.8	330.23
T. P.	0.89	329.76	11.16		328.87
+50				3.5	326.26
66				7.8	321.96
	2.97		34.54		

Sta.	+	0	−	Rod	Elev.
+50				9.1	320.66
65				10.0	319.76
64+50				12.2	317.56
T. P.	0.45	318.51	11.70		318.06
63+96				4.4	314.11
63+50				7.0	311.51
63				9.2	309.31
+50				12.1	306.41
T. P.	0.77	307.80	11.48		307.03
+29				3.5	304.30
62				2.9	304.90
+50				3.6	304.20
61				7.1	300.70
T. P. Plug +72	0.30	296.85	11.25		296.55
+65				2.2	294.65
T. P.	0.74	286.03	11.56		285.29
+28				9.8	276.23
	2.26		45.99		

Sta.	+	o	−	Rod	Elev.
3'x4' Box 60+23				9.3	276.78
T. P.	8.73	294.02	0.74		285.29
+85 △				−0.6	294.62
59+50				−0.1	294.12
Plug 58+9.5 △				3.30	290.72
T. P.	2.77	292.72	4.07		289.95
+72				0.8	291.92
+50				1.9	290.82
+40 △				3.7	389.02
58				10.8	281.92
T. P.	0.59	281.64	11.67		281.05
+62				11.5	270.14
+50				10.2	271.44
+32 △				4.7	276.94
57				4.4	277.24
+50				8.3	273.34
+33				10.9	270.74
	12.09		16.48		

Sta.	+	o	−	Rod	Elev.
T. P.	0.82	270.75	11.71		269.93
+06				4.7	266.05
3'x4' Box 56 Hilly				11.7	259.05
+77				4.4	266.35
+50				4.7	266.05
+25				6.9	263.85
55				4.7	266.05
+75				8.3	262.45
+50				7.8	262.95
54				9.6	261.15
T. P.	0.52	259.90	11.37		259.38
Plug +45 △				4.19	255.71
53				5.2	254.70
+50				10.7	249.20
52				11.1	248.80
+50				6.3	253.60
51				6.2	253.70
	1.34		23.08		

Sta.	+	⊙	−	Rod	Elev.
+50				5.8	254.10
+12				4.5	255.46
+11				12.0	247.90
50				12.0	247.90
+97				4.8	255.10
+50				6.9	253.00
49				10.5	249.40
+50				7.7	252.20
48				11.4	248.50
T.P.	3.82	252.36	11.36		248.54
+50				3.7	248.66
47				2.8	249.56
+50				8.2	244.16
46				6.9	245.46
+50				5.6	246.76
45				5.1	247.26
+50				4.7	247.66

Sta.	+	⊙	−	Rod	Elev.
44				5.2	247.16
+50				7.3	245.06
Clay +07				6.93	245.43
43				6.9	245.46
+50				8.0	244.36
42				8.8	243.56
T.P.	4.59	248.34	8.61		243.75
+50				4.1	244.24
41				2.6	245.74
+50				4.8	243.54
40				3.6	244.74
+50				5.6	242.74
+25				7.1	241.24
39				8.3	240.04
+75				10.7	237.64
+50				10.0	238.34
38				10.9	237.44

Sta	+	⊙	−	Rod	Elev.
+50				8.9	239.44
+37 △				7.7	240.64
37				6.1	242.24
+50				7.8	240.54
T.P.	2.28	243.09	7.53		240.81
36				6.3	236.79
+64 △				6.0	237.09
+50				5.1	237.99
35				3.0	240.09
+50 △				3.9	239.19
T.P.	2.18	240.86	4.41		238.68
34				1.6	239.26
+50				8.7	232.16
33 +25				9.4	231.46
Over 34 +99 △				4.27	236.59
+75				4.4	236.46
+50				6.9	233.96
	4.46		11.94		

Sta.	+	⊙	−	Rod	Elev.
32				9.3	231.56
+50				3.5	237.36
31				5.9	234.96
T.P. Bing +71 △	4.06	235.49	9.43		231.43
+50				2.4	233.09
B.M (#37)				6.03	229.46
30				3.8	231.69
+50				3.1	232.39
29 △				5.4	230.09
+50				3.9	231.59
28				3.3	232.19
+50				5.6	229.89
27				7.5	227.99
+50				4.7	230.79
+25 △				5.6	229.89
+10				6.6	228.89
26				13.4	222.09

Sta.	+	o	−	Rod	Elev.
+95				7.3	228.19
+50				8.7	226.79
25				7.7	227.79
T.P.	0.92	229.25	7.16		228.33
+50				2.5	226.75
24				2.2	227.05
+50				-0.2	229.05
+11 △				3.4	225.85
23				6.5	222.75
+75				8.8	220.45
+50				6.8	222.45
22				5.4	223.85
+50				4.3	224.95
+30				3.3	226.95
21				4.9	224.35
+50				8.9	220.35
+25				10.5	218.75

Sta.	+	o	−	Rod	Elev.
20				9.6	219.65
+50				7.9	221.35
19				6.4	222.85
+50				8.1	221.15
18				8.4	220.85
T.P.	2.77	224.06	7.96		221.29
+50				4.1	219.96
+13 △				4.6	219.46
17				4.6	219.46
+85				5.1	218.96
+50				3.3	220.76
16				6.2	217.86
+50				8.0	216.06
15				7.3	216.76
Elev +63 △				7.80	216.26
+50				6.6	217.46
14				8.5	215.56

Sta.	+	o	−	Rod	Elev.
+50				8.3	215.76
13				13.6	210.46
+50				8.0	216.06
12				8.6	215.46
Plug T.P. +69 △	3.82	217.43	10.45		213.61
+50				6.8	216.63
11				6.2	211.23
+50				4.7	212.73
10				4.4	213.03
+92				4.3	213.13
+81				10.3	207.13
+76				10.3	207.13
+72				3.9	213.53
+50				3.7	213.73
9				5.0	212.43
+73 △				6.0	211.43
+50				6.7	210.73

Sta.	+	o	−	Rod	Elev.
+25				8.6	208.83
8				7.0	210.43
+50				7.9	209.53
+15				11.4	206.03
7				10.2	207.23
+50				8.4	209.03
6				10.1	207.33
T.P.	3.35	211.01	9.77		207.66
+50				4.4	206.61
5				3.7	207.31
+82 △				3.1	207.91
+50				4.1	206.91
4				5.4	205.61
+50				5.8	205.21
3				6.2	204.81
+70 △				5.7	205.31
+50				5.6	205.41

Sta.	+	o	—	Rod	Elev.
2				9.8	201.21
+50				9.7	201.31
1				5.2	205.81
+50				4.9	206.11
0 Grade				8.9	202.11
B.M. (#38)			2.39		208.62

Levels for Road from Sta. 80 ("Rose Canon Line") through Sonora to City Limits

Sta	+	o	−	Rod	Elev.
B.M. (#36)	1.88	380.60			378.72
=80				7.9	372.70
+50				11.4	369.20
1				13.2	367.40
+50				12.1	368.50
2				9.8	370.80
+50				9.1	371.50
3				8.7	371.90
+50				8.3	372.30
4				7.3	373.30
+50				6.8	373.80
5				6.7	373.90
+50				5.8	374.80
6				5.4	375.20
T.P.	4.23	379.57	5.26		375.34
+50				3.6	375.97
7				3.5	376.07
	6.11		5.26		

Sta.	+	o	−	Rod	Elev.
+50				3.2	376.37
8				3.9	375.67
+50				3.8	375.77
9				3.9	375.67
+50				5.0	374.57
10				6.0	373.57
+50				6.4	373.17
11				7.0	372.57
+50				7.3	372.27
12				7.7	371.87
+50				7.7	371.87
13				7.8	371.77
+50				8.1	371.47
14				9.6	369.97
T.P.	1.04	371.16	9.45		370.12
+50				2.0	369.16
15				1.9	369.26

Sta.	+	⊙	−	Rod	Elev.
+50				2.8	368.36
16				2.7	368.46
+50				3.4	367.76
17				4.3	366.86
+50				5.2	365.96
18				6.2	364.96
B.M. (+39)				5.53	365.63
+50				8.7	362.46
19				10.5	360.66
+09				11.1	360.06
T. P.	0.65	360.72	11.09		360.07
+50				3.1	357.62
= 20 in Transit Note					
20				5.7	355.02
+50				7.9	352.82
21				11.3	349.42
T. P.	1.23	350.72	11.23		349.49
+50				4.4	346.32
	1.88		22.32		

Sta.	+	⊙	−	Rod	Elev.
+90				8.3	342.42
22				13.9	336.82
Brk +03				11.2	339.52
+26				10.7	340.02
+50				12.4	338.32
T. P.	0.39	339.12	11.99		338.73
23				5.6	333.52
+50				6.0	333.12
24				8.8	330.32
+50				10.7	328.42
T. P.	1.98	329.45	11.65		327.47
+95				4.3	325.15
25 +50				6.4	323.05
+85				10.0	319.45
26				13.4	316.05
+15				12.0	317.45
T. P.	0.35	318.33	11.47		317.98
	2.72		35.11		

Sta.	+	0	−	Rod	Elev.
+50				2.1	316.23
27				5.3	313.03
+50				9.6	308.73
+70				10.9	307.43
28				16.3	302.03
+50				12.3	306.03
T.P.	1.00	307.43	11.90		306.43
+80				4.6	302.83
29				6.3	301.13
+50				9.5	297.93
30				11.9	295.53
T.P.	0.89	297.07	11.25		296.18
+07				2.5	294.57
+50				5.3	291.77
31				4.5	292.57
Plug +33				8.29	288.78
T.P.	1.42	287.30	11.19		285.88
	3.31		34.34		

Sta.	+	0	−	Rod	Elev.
+50				7.1	280.20
1x1½ Ant +60				9.7	277.60
32				4.7	282.60
+50				2.7	284.60
+70				0.7	286.60
33				7.1	280.20
+50				11.9	275.40
T.P.	1.47	276.89	11.88		275.42
+86				5.1	271.79
34				6.2	270.69
+25				3.7	273.19
+50				5.6	271.29
+80				8.0	268.89
35				12.0	264.89
T.P.	0.87	266.02	11.74		265.15
+15				5.3	260.72
+50				4.9	261.12
	2.34		23.62		

1/14/02

Sta.	+	⊙	−	Rod	Elev.
36 Plug				6.35	259.67
+50				11.2	254.82
T. P.	0.58	254.72	11.88		254.14
37 Plug				2.60	252.12
+50				4.3	250.42
38				6.7	248.02
+50				10.0	244.72
39				11.9	242.82
T. P.	1.25	244.18	11.79		242.93
+50				5.0	239.18
40 Plug				8.80	235.38
+50				7.2	236.98
41				8.3	235.88
T. P.	0.55	232.93	11.80		232.38
+50				6.0	226.93
T. P.	1.06	222.22	11.77		221.16
+75				3.1	219.12
	3.44		47.24		

Sta.	+	⊙	−	Rod	Elev.
T. P.	4.30	215.42	11.10		211.12
3"x4" Bst 42				12.3	203.12
T. P.	11.66	222.78	4.30		211.12
Plug +43	7.24	228.91	1.11	1.1	221.67
+50				6.2	222.71
+85				2.5	226.41
43				3.8	225.11
T. P.	0.99	218.27	11.63		217.28
+44				4.4	213.87
44				10.0	208.27
+20				12.3	205.97
+50				9.4	208.87
+84				8.1	210.17
45				9.9	208.37
T. P.	0.93	207.84	11.36		206.91
+50				6.5	201.34
+75				3.8	204.04
	25.12		39.50		

Sta.	+	⊖	−	Rod	Elev
46+06 △				7.3	200.54
+50				8.0	199.84
47				10.0	197.84
T. P.	0.76	196.86	11.74		196.10
+29 △				3.6	193.26
+50				5.8	191.06
48				13.7	183.16
T. P.	1.26	187.28	10.84		186.02
+50				3.3	183.98
49				4.9	182.38
+50				7.2	180.08
Plug +87 △				11.05	176.23
50				10.8	176.48
+50				10.2	177.08
T. P.	0.67	176.06	11.89		175.39
51				1.9	174.12
+50				9.5	166.54
	2.69		34.67		

Sta.	+	⊖	−	Rod	Elev.
+54 △				9.9	166.16
T. P.	1.03	165.69	11.40		164.66
+81				10.0	155.69
+83				10.4 15.0	155.29 150.29
Bridge +92				Ditch 10.7 15.5	154.99 151.19
52+04				11.3	154.39
+10				8.8	156.89
+35				8.8	156.89
+44				4.1	161.59
+50				4.0	161.69
53				3.2	162.49
+50				7.1	158.59
T. P.	0.90	154.74	11.85		153.84
54				1.4	153.34
+50				4.1	150.64
Plug +62 △				3.34	151.40
55				6.4	148.34
	1.93		23.25		

Sta.	+	⊙	−	Rod	Elev.
+50				3.3	151.44
56				5.1	149.64
+12 △				5.9	148.84
+50				7.0	147.74
57				9.1	145.64
+50				11.5	143.24
T. P.	2.44	145.37	11.81		142.93
+55 △				2.69	142.68
3'x3' Post +80				5.8	139.57
58				4.7	140.67
+50				1.9	143.47
59				3.8	141.57
+50				5.1	140.27
Flag +66 △				5.08	140.29
60				7.2	138.17
+50				7.9	137.47
61				6.4	138.97

Sta.	+	⊙	−	Rod	Elev.
+50				7.0	138.37
Flag +66 △	0.89	136.97	9.29		136.08
62				1.6	135.37
1'x1½' Post +25				3.7	133.27
+50				1.5	135.47
63				4.0	132.97
+50				4.8	132.17
+86 △				6.8	130.17
64				6.5	130.47
B.M. (#40)				1.22	135.75
+50				6.2	130.77
65				8.7	128.27
+50				8.9	128.07
66				8.4	128.57
+50				11.1	125.87
T. P.	1.82	127.78	11.01		125.96
67				3.7	124.08
	2.71		20.30		

Sta.	+	o	−	Rod	Elev.
+50				2.9	124.88
68				2.3	125.48
+50				4.1	123.68
+91 △				4.4	123.38
69				4.2	123.58
+50				7.1	120.68
70				7.2	120.58
+50				7.1	120.68
71				8.1	119.68
+50				10.2	117.58
Plug +53 △				10.32	117.46
72				8.5	119.28
T. P.	1.15	117.54	11.39		116.39
+50				1.6	115.94
73				4.9	112.64
+50				4.5	113.04
Plug +93 △				4.86	112.68

Sta.	+	o	−	Rod	Elev.
74+50				4.4	113.14
75				6.5	111.04
+50				8.6	108.94
76				9.3	108.24
+50				11.2	106.34
77				11.7	105.84
T. P.	0.86	106.79	11.61		105.93
+50				1.5	105.29
78				1.9	104.89
+50				2.4	104.39
79				0.40	106.39
+50				4.5	102.29
+70 △				5.6	101.19
80				6.9	99.89
+50				8.1	98.69
81				6.9	99.89
+50				5.7	101.09

Sta.	+	⊙	−	Rod	Elev.
Chg +78				5.65	101.14
82				7.8	98.99
+50				6.7	100.09
T. P.	2.65	102.77	6.67		100.12
+62				2.7	100.07
Cut 5' Bridge +65				8.0	94.77
+68				3.1	99.67
83				3.4	99.37
+50				2.5	100.27
84				4.0	98.77
+50				5.1	97.67
85				8.8	93.97
T. P.	1.50	93.98	10.29		92.48
+40				5.5	88.48
+50				5.8	88.18
86				5.9	88.08
+50				6.2	87.78
	4.15		16.96		

1/16/02

Sta.	+	⊙	−	Rod	Elev.
87				7.9	86.08
+50				8.6	85.38
88				9.1	84.88
+50				8.6	85.38
89				9.9	84.08
Blue 6 +50	3.80	89.08	8.70	8.7	85.28
90				3.0	86.08
+50				9.7	79.38
91				11.1	77.98
+50				11.5	77.58
92				11.5	77.58
+50				10.8	78.28
93				12.1	76.98
T. P.	0.85	78.25	11.68		77.40
+50				3.9	74.35
94				5.0	73.25
+50				5.1	73.15
	4.65		20.38		

Sta.	+	⊙	−	Rod	Elev.
95				6.2	72.05
+50				5.7	72.55
96				5.8	72.45
+50				10.1	68.15
+75				11.3	66.95
97				9.1	69.15
+50				10.8	67.45
98 Plug △	0.09	66.81	11.51		66.74
+50				2.9	63.91
99				7.0	59.81
+50				10.2	56.61
100				10.9	55.91
+50				11.0	55.81
+68 Plug △	1.84	57.62	17.03		55.78
101				2.2	55.42
West bank work & +41				3.0	54.62
East bank work +61				4.3	53.32
	1.91		22.54		

Sta.	+	⊙	−	Rod	Elev.
102				3.8	53.82
+50				4.7	52.92
103				5.7	51.92
+50				6.9	50.72
104				8.7	48.92
+50				10.4	47.22
T.P.	1.00	47.24	11.38		46.24
105				2.5	44.74
+50				3.5	43.74
106				4.6	42.64
End out A +27.5 △				5.6	41.64
+50				6.1	41.14
107				8.3	38.94
S. bank work +50				10.0	37.24
N. bank work +65				10.5	36.74
108				11.3	35.94
+50				10.5	36.74

Sta.	+	o	—	Rod	Elev.
109				10.0	37.24
+50				8.7	38.54
110				7.4	39.84
+50				6.4	40.84
111				5.3	41.94
+50				5.0	42.24
T. P.	5.12	47.53	4.83		42.41
112				4.6	42.93
+50				3.5	44.03
113 5th and A				3.1	44.43
+46.5				2.3	45.23
114				6.9	40.63
+50				11.6	35.93
T. P.	0.65	36.62	11.56		35.97
115				5.8	30.82
+50				10.7	25.92
T. P.	1.83	27.74	10.71		25.91
	7.60		27.10		

Sta.	+	o	—	Rod	Elev.
116				4.5	23.24
+50				4.5	23.24
117				4.7	23.04
+20				4.7	23.04
Center track - Rail spikes				2.4	25.34
+50				3.7	24.04
+57				4.8	22.94
B.M. (#41)				2.30	25.44
118				4.9	22.84
+50				5.3	22.44
119				4.8	22.94
+50				4.8	22.94
120 5th and C				4.5	23.24
+16.5				4.56	23.18
+50				4.8	22.94
121				4.9	22.84
122				5.3	22.44

Sta.	+	⊙	−	Rod	Elev.
123				6.2	21.54
T. P.	2.65	24.62	5.77		21.97
124				3.7	20.92
125				4.0	20.62
126				4.3	20.32
127				5.0	19.62
128				5.2	19.42
129				5.2	19.42
130				5.4	19.22
131				6.1	18.52
132				6.3	18.32
T. P.	3.73	22.53	5.82		18.80
133				4.7	17.83
134				4.6	17.93
135				4.4	18.13
136				4.6	17.93
137				4.8	17.73
	6.38		4.59		

Sta.	+	⊙	−	Rod	Elev.
138				4.9	17.63
139				5.0	17.53
140				4.5	18.03
141				5.6	16.93
Alig. +16.5	5.99	22.69	5.83		16.70
+50				5.6	17.09
142+50				5.1	17.59
143+16.5				5.0	17.69
S. Bank Creek +34				4.9	17.79
+50				6.2	16.49
144				8.2	14.49
+25				7.9	14.79
N. Bank Creek +31				5.2	17.49
B.M. (#42)				6.00	16.69
+50				4.9	17.8
145+50				5.7	16.99
146+50				5.1	17.59

Sta.	+	⊙	−	Rod	Elev.
147+50				5.6	17.09
148+50				6.5	16.19
149+50				4.3	18.39
T. P.	11.39	30.29	3.79		18.90
150				12.7	17.59
+25				10.3	19.99
+50				5.8	24.49
T. P.	9.53	38.69	1.13		29.16
151				6.0	32.69
+50				0.8	37.89
T. P.	5.95	43.57	1.07		37.62
152+04				1.2	42.37
+25				0.3	43.27
+50				3.0	40.57
+85				11.2	32.37
T. P.	0.74	33.10	11.21		32.36
153				8.5	24.60
	27.61		17.20		

Sta.	+	⊙	−	Rod	Elev.
T. P.	0.80	22.68	11.22		21.88
+12				0.8	21.88
+50				9.5	13.18
154				10.3	12.38
155				10.4	12.28
156				10.4	12.28
157				11.3	11.38
T. P.	5.54	17.38	10.84		11.84
158				5.5	11.88
159				5.8	11.58
160				5.2	12.18
161				4.9	12.48
162				5.6	11.78
+20				7.5	9.88
163				7.0	10.38
164				6.4	10.98
165				5.9	11.48
	6.34		22.06		

Sta.	+	⊖	−	Rod	Elev.
166				7.1	10.28
T. P.	3.96	14.34	7.00		10.38
+48				5.0	9.34
+54				2.5	11.84
167				2.6	11.74
168				3.4	10.94
169				4.0	10.34
170				4.9	9.44
171				5.6	8.74
172				6.0	8.34
173				6.2	8.14
174				6.7	7.64
175				6.8	7.54
T. P.	4.63	12.35	6.62		7.72
176				4.7	7.65
177				4.8	7.55
B. M. (#43)				3.96	8.39
	8.59		13.62		

Sta.	+	⊖	−	Rod	Elev.
+32				5.0	7.35
Provide for water way at [illegible] point, opp. bridge 128					
+42				6.8	5.55
+52				5.3	7.05
178				4.8	7.55
179				4.6	7.75
180				4.9	7.45
181				5.8	6.55
182				6.2	6.15
183				6.8	5.55
T. P.	2.63	8.53	6.45		5.90
184				3.5	5.03
185				3.7	4.83
186				4.8	3.73
187				4.5	4.03
188				4.3	4.23
189				4.3	4.23
190				4.8	3.73

Sta.	+	⊙	−	Rod	Elev.
191				6.0	2.53
T. P.	9.34	12.61	5.26		3.27
192				9.8	2.81
Bridge +60 △				10.0	2.61
B.M. (#44)				9.10	3.51
193				9.2	3.41
+50				6.9	5.71
194				3.3	9.31
T. P. 2+3 Art	11.45	23.38	0.68		11.93
+50				10.8	12.58
195				7.9	15.48
+54 △				5.3	18.08
+92				1.9	21.48
196				3.3	20.08
+50				9.9	13.48
197				8.5	14.88
+50				3.9	19.48
	20.79		5.94		

Sta.	+	⊙	−	Rod	Elev.
T. P.	11.58	30.41	4.55		18.83
198 △				5.0	25.41
+50				4.0	26.41
199				2.5	27.91
+25				5.7	24.71
+50				2.2	28.21
T. P.	11.77	41.39	0.79		29.62
+75 △				7.8	33.59
200				7.7	33.69
+25				9.4	31.99
+50				8.5	32.89
201				4.9	36.49
+35				4.0	37.39
+50				6.2	35.19
+62				8.5	32.89
202				1.9	39.49
T. P.	6.36	46.53	1.22		40.17
	29.71		6.56		

Sta.	+	⊙	−	Rod	Elev.
+50				1.6	44.93
+81 △				2.6	43.93
T.P.	1.02	44.69	2.86		43.67
203				3.3	41.39
+50				9.2	35.49
+65 △				10.5	34.19
204				11.0	33.69
T.P.	0.89	34.21	1.37		33.32
+50				6.21	28.01
205				3.7	30.51
+50				7.8	26.41
206				12.1	22.11
Plug +20 △	1.61	23.91	1.91		22.30
+50				1.8	22.11
207				5.1	18.81
+50				8.6	15.31
+70				10.7	13.21
	3.52		26.14		

Sta.	+	⊙	−	Rod	Elev.
208				10.1	13.81
+50				10.8	13.11
T.P.	1.31	13.74	11.48		12.43
209				3.2	10.54
+50				6.7	7.04
+82 △				8.7	5.04
210				9.7	4.04
+50				8.6	5.14
211				10.3	3.44
+45.3 △ End of Road				8.7	5.04
+50				8.4	5.34
212				11.7	2.04
+50				14.1	− 0.36
213				15.3	− 1.56
B.M. (#45)			5.96		7.78 ✓

1/27/'02 Levels from Sta. 99+00 to Sta. 111+35, "Sorrento Line"

B Line

Sta.	+	⊙	−	Rod	Elev.
Plus 100+68 △	3.88	59.66			55.78
= 99 △				0.0	59.66
+50				0.5	59.16
1				1.5	58.16
+50				1.6	58.06
2				0.5	59.16
+50				3.0	56.66
3				3.8	55.86
+50 △				5.6	54.06
4				6.6	53.06
+50				5.6	54.06
5				8.6	51.06
T.P.	2.27	52.70	9.23		50.43
+50				2.5	50.20
6				2.8	49.90
+50				2.1	50.60
7				2.9	49.80

Sta.	+	⊙	−	Rod	Elev.
+50				3.4	49.30
8				5.1	47.60
+50				7.5	45.20
9				9.2	43.50
= +12 △ 111+35				9.9	42.80

17/2/02
Cloudy
Cool
Davis

Levels along center of alley bet. 1st. and 2nd Sts.

	+	⊙	−	Rod	Elev
Stake S.E. cor University and 1st.					
B.M.	8.08	282.40			274.32
Cent. Monroe and alley					
+56				5.0	277.4
+16				4.8	277.6
4				4.8	277.6
+50				4.6	277.8
3				6.9	275.5
+50				7.7	274.7
2				5.5	276.9
+50				5.7	276.7
1				7.0	275.4
+50				7.5	274.9
0 N. line Robinson					
+60				9.2	273.2
cent.					
+30				10.9	271.5
S. line Robinson					
6				11.8	270.6
T.P.	1.45	272.37	11.48		270.92
+50				2.5	269.9
5				2.8	269.6
	9.53		11.48		

University to Walnut

Sta.	+	⊙	−	Rod	Elev
+50				2.5	269.9
4				3.8	268.6
+50				4.0	268.4
3				5.2	267.2
+50				6.7	265.7
2				6.8	266.1
+50				7.2	265.2
1				9.6	262.8
+50				9.5	262.9
N. line Thornton					
0 +60				10.3	262.1
Cent.					
+30				10.3	262.1
S. line Thornton					
6				10.5	261.9
T.P.	0.68	262.78	10.27		262.10
+50				2.0	260.8
5				2.9	259.9
+50				5.3	257.5
+30				8.0	254.8

Sta	+	0	−	Rod	Elev.
T. P.	1.70	252.50	11.98		250.80
4				7.1	245.4
T. P.	0.23	240.93	11.80		240.70
"	0.45	229.81	11.57		229.36
+50				2.9	226.9
T. P.	1.01	218.99	11.82		217.98
3				8.2	210.8
+60				15.7	203.3
+50				12.3	206.7
T. P.	11.93	230.24	0.68		218.31
2				9.4	220.8
+50				1.9	228.3
T. P.	11.62	241.18	0.68		229.56
1				5.1	236.1
T. P.	11.67	252.13	0.72		240.46
+50	0			1.2	250.9
T. P.	10.78	262.17	0.74		251.39
	49.39		49.99	5	

Sta.	+	0	−	Rod	Elev.
N. line Broken 0 = +60				4.4	257.8
Center +30				1.7	260.5
T. P.	5.83	267.73	0.27		261.90
S. line Broken 6				5.1	262.6
+50				4.2	263.5
5				4.6	263.1
+50				5.5	262.2
4				5.4	262.3
+50				5.5	262.2
3				5.7	262.0
+50				5.5	262.2
2				5.6	262.1
+50				6.6	261.1
1				7.8	259.9
+50				7.9	259.8
N. line walnut 0				7.2	260.5
Center walnut −40				7.4	260.3
Ry Point			7.58		260.15

1/12/02 Levels along center of alley

Sta.	+	⊙	−	Rod	Elev.
Stk. S.E. cor University and 1st. B.M.	0.77	275.09			274.32
T.P.	1.57	264.70	11.96		263.13
"	1.59	254.65	11.68		253.02
cent. University + 5.6				11.0	243.6
S. line + 1.6				14.1	240.5
4				11.6	243.0
+ 50				3.2	251.4
T.P.	11.69	265.33	0.97		253.64
3				1.1	264.2
T.P.	10.56	275.11	0.78		264.55
+ 50				8.6	266.5
2				7.1	268.0
+ 50				6.4	268.7
1				4.6	270.5
+ 50				5.1	270.0
N. line Robinson				5.5	269.6
center + 3.0				6.4	268.7
	26.18		25.39		

1st. 1st. and Albatross
University to Walnut

Sta.	+	⊙	−	Rod	Elev.
S. line Robinson 6				6.8	268.3
+ 50				7.6	267.5
5				8.5	266.6
T.P.	1.15	267.95	8.31		266.80
+ 50				2.0	265.9
4				4.3	263.6
+ 50				5.2	262.7
3				5.9	262.0
+ 50				7.4	260.5
2				7.6	260.3
+ 50				9.8	258.1
T.P.	0.77	256.87	11.85		256.10
"	2.34	247.47	11.74		245.13
1				4.8	242.7
T.P.	1.11	236.67	11.91		235.56
+ 50				4.4	231.3
N. line Thornton 0 + 50				12.2	224.5
	5.37		43.81		

Sta.	+	⊙	—	Rod	Elev
T. P.	0.95	225.73	11.89		224.78
Cente +30					
S. bank Thornton				3.3	222.4
6				5.6	220.1
+50				7.2	218.5
5				12.4	213.3
T. P.	0.36	214.15	11.94		213.79
11	1.41	203.79	11.77		202.38
+50				4.2	198.6
T. P.	0.64	192.73	11.70		192.09
4				9.6	183.1
+83				14.5	178.2
+50				3.6	189.1
T. P.	11.20	203.33	0.60		192.13
3				2.2	201.1
T. P.	11.44	214.14	0.63		202.70
+50				0.5	213.6
T. P.	11.45	224.76	0.83		213.31
	37.45		49.36		

Sta.	+	⊙	—	Rod	Elev
T. P.	11.52	235.43	0.85		223.91
2				0.9	234.5
T. P.	11.26	245.30	1.39		234.04
11	11.90	256.14	1.06		244.24
+50				7.4	248.7
1				4.5	251.6
+50				3.8	252.3
N. bank Brooke				4.8	251.3
0 +60					
Cente +30				6.0	250.1
S. bank Brooke					
6				6.2	250.1
+50				7.0	249.1
5				6.4	249.7
+50				5.1	251.0
4				5.4	250.7
T. P.	3.87	253.72	6.29		249.85
+50				4.0	249.7
3				4.3	249.4
	38.55		9.59		

Sta.	+	o	−	Rod	Elev.
+50				4.2	249.5
2				3.7	250.0
+50				3.1	250.6
1				3.4	250.3
+50				3.4	250.3
N. line Walnut 0					
Cent. Walnut +40				4.7	249.0
				5.3	248.4
T.P.	10.46	263.50	0.68		253.04
Ref. Point			3.41		260.09 (260.15)

18/2 /02 Levels along the center of Alley bet. Brandt and Albatross, from University & Walnut

Sta.	+	o	−	Rod	Elev.
Old S.E. Cor University and 1st BM	1.54	275.86			274.32
Q. Reg				11.48	264.38
Center Robinson +30				11.9	264.0
N line Robinson +60 0				11.1	264.8
+50				10.8	265.1
1				11.3	264.6
T.P.	0.46	264.82	11.50		264.36
+50				2.0	262.8
+72				3.5	261.3
T.P.	1.58	254.84	11.56		253.26
2				7.2	247.6
T.P.	0.25	243.52	11.57		243.27
"	0.47	232.67	11.32		232.20
+50				4.9	227.8
T.P.	1.10	222.60	11.17		221.50
3				5.8	216.8
+25				7.4	215.2

Sta.	+	⊙	−	Rod	Elev.
+32				11.2	211.4
+50				8.8	213.8
T. P.	11.47	232.72	1.35		221.25
4				5.6	227.1
T. P.	10.63	242.99	0.36		232.36
S. line University					
+16				9.2	233.8
T. P.	6.45	249.08	0.36		242.63
Centre University					
+56				3.3	245.8
Ref. Point	0.87	265.25			264.38
S. line Atkinson					
6				1.2	264.0
+50				1.9	263.3
5				2.9	262.3
+50				4.3	260.9
4				6.2	259.0
+50				9.5	255.7
T. P.	0.69	254.26	11.68		253.57

Sta.	+	⊙	−	Rod	Elev.
3				9.8	244.5
T. P.	1.23	243.56	11.93		242.33
"	1.16	232.90	11.82		231.74
+50				5.2	227.7
T. P.	0.22	221.51	11.61		221.29
"	4.97	214.71	11.77		209.74
2				6.3	208.4
+65				15.9	198.8
+50				12.8	201.9
T. P.	11.79	225.20	0.80		213.91
1				4.9	220.3
T. P.	11.23	235.81	0.62		224.58
+75				6.9	228.9
+50				3.3	232.5
T. P.	10.78	245.59	1.00		234.81
N. line Thornton					
0					
2 Flow					
Centre				7.2	238.4
+30				4.3	241.3
	40.88		49.55		

Sta.	+	o	−	Rod	Elev.
5 line Thornton					
6				3.6	242.0
+50				3.1	242.5
5				2.3	243.3
+65				1.8	243.8
+50				2.9	242.7
T. P.	2.31	236.32	11.58		234.01
4				1.3	235.0
T. P.	0.72	225.29	11.75		224.57
+50				1.6	223.7
T. P.	0.29	213.64	11.94		213.35
3				3.6	210.0
T. P.	0.31	202.54	11.41		202.23
+50				11.9	190.6
T. P.	0.70	191.48	11.76		190.78
11	0.47	180.36	11.59		179.89
2				4.0	176.4
T. P.	0.24	168.61	11.99		168.37
	5.04		82.02		

Sta.	+	o	−	Rod	Elev.
+50				8.4	160.2
+28				14.6	154.0
1				8.5	160.1
T. P.	11.11	179.47	0.25		168.36
+50				7.6	171.9
T. P.	11.24	190.71	0.00		179.47
N. line Brookes					
0 = +60				5.9	184.8
T. P.	6.81	197.15	0.37		190.34
Corner +30				4.9	192.2
S. line Brookes					
6				0.7	196.4
+50				1.8	195.3
+50				3.6	193.5
T. P.	0.90	186.48	11.57		185.58
5				3.3	183.2
T. P.	3.29	178.28	11.49		174.99
+50				12.0	166.3
T. P.	11.85	189.54	0.59		177.69
	45.20		24.27		

Sta.	+	o	—	Rod	Elev.
4				4.7	184.8
T. P.	11.94	201.48	0.0.0		189.54
+75				9.2	192.3
+50				7.8	193.7
+17				8.4	193.1
3				6.9	194.6
+50				3.4	198.1
2				4.4	197.1
T. P.	11.70	212.49	0.69		200.79
+50				5.0	207.5
+30				1.9	210.6
T. P.	11.64	223.87	0.26		212.23
"	8.68	231.75	0.80		223.07
1				5.8	225.9
+75				1.3	230.4
+50				1.2	230.5
T. P.	0.87	220.19	11.93		219.82
	44.33		43.68		

T. P.	0.51	208.75	11.95	1	208.24
N. line Walnut 0				1.4	207.3
T. P.	0.43	197.56	11.62		197.13
−30				4.6	193.0
Center Walnut −40				10.0	187.6

19/2 102

Lavels along the Center line of Road, from Old Town to the City Limits

Sta.	+	⊖	−	Rod	Elev.
Cap. tack top S.E. Pier Dam Bridge B. M.	8.12	20.10			11.98
T. P.	1.24	12.23	9.11		10.99
0					
+25				0.2	12.0
+50				0.9	11.3
1				2.0	10.2
+50				3.1	9.1
2				4.2	8.0
+50				4.9	7.3
3				5.1	7.1
+50				5.7	6.5
4				5.0	7.2
+50				4.1	8.1
5				3.0	9.2
+50				2.5	9.7
T. P.	9.31	20.30	1.24		10.99
6				9.4	10.9
	18.67		10.35		

Relocated from the Center of Taylor and Hickory, to Sta. 39+65, See Page 102

Sta.	+	⊖	−	Rod	Elev.
+50				6.0	14.3
+75	Westerly line Hickory			4.8	15.5
7				4.4	15.9
+50				4.6	15.7
8				5.2	15.1
+05				6.1	14.2
+09				8.3	12.0
+25				10.7	9.6
+35				11.1	9.2
+43				5.5	14.8
+50				5.1	15.2
+80				4.6	15.7
9				5.0	15.3
+50				7.3	13.0
10				5.2	15.1
+50				4.6	15.7
11				6.2	14.1

Mission Valley Road

Sta.	+	⊖	−	Rod	Elev.
+50				6.9	13.4
12				7.0	13.3
+50				3.7	6.6
13				2.9	17.4
Pag	2.36	20.06	2.60		17.70
+20				3.4	16.7
+50				7.4	12.7
14				8.3	11.8
+32 △				8.8	11.3
+50				8.8	11.3
15				8.1	12.0
+50				8.2	11.9
16				7.9	12.2
+50				8.0	12.1
T. P.	2.94	15.71	7.29		12.77
17				3.8	11.9
+50				4.3	11.4
	5.30		9.89		

Sta.	+	⊖	−	Rod	Elev.
+79 △				4.7	11.0
18				4.9	10.8
Spk N.E. Cor. Post Pumping Plant fence B.M.				3.17	12.54
High water Mark - 1895				2.85	12.86
+50				4.7	11.0
19				5.1	10.6
+50				6.1	9.6
20				7.4	8.3
+50				8.1	7.6
21				7.8	7.9
+50				8.2	7.5
22				7.7	8.0
T. P.	5.59	13.62	7.68		8.03
+50				5.6	8.0
23				5.0	8.6
+50				5.4	8.2
24				5.4	8.2

Sta.	+	o	−	Rod	Elev.
+50				5.6	8.0
25				5.7	7.9
+50				4.5	9.1
26				4.2	9.4
Bkg +12				4.19	9.43
+50				4.1	9.5
27				3.5	10.1
+50				3.4	10.2
28				4.0	9.6
+50				5.2	8.4
29				6.5	7.1
+50				3.9	9.7
Bkg +63	9.52	20.67	2.47		11.15
30				9.9	10.8
+50				8.9	11.8
31				7.5	13.2
+50				10.8	9.9

Sta.	+	o	−	Rod	Elev.
+94				9.5	11.2
32 +50				7.9	12.8
33				6.6	14.1
+50				8.5	12.2
34				7.7	13.0
+50				5.8	14.9
35				1.3	19.4
+50				0.6	20.1
T.P.	3.63	21.81	2.49		18.18
36				3.8	18.0
+15				4.7	17.1
+50				9.8	12.0
37				9.9	11.9
+50				10.6	11.2
38				10.5	11.3
+50				9.7	12.1
39				7.6	14.2

Sta.	+	0	−	Rod	Elev.
+50				5.6	16.2
+65 △				5.1	16.7
40				3.1	18.7
T. P.	11.79	30.63	2.97		18.84
+50				9.0	21.6
41				6.2	24.4
+50				6.8	23.8
42				7.6	23.0
+50				7.7	22.9
43				6.4	24.2
+50				3.3	27.3
T. P.	11.39	41.04	0.98		29.65
44				10.1	30.9
+50				7.5	33.5
45				5.9	35.1
+50				4.3	36.7
46				2.9	38.1
	23.18		3.95		

+50				2.1	38.9
47				0.8	40.2
T. P.	11.19	51.04	1.19		39.85
+45 △				9.9	41.1
48				8.1	42.9
+50				5.8	45.2
49				3.5	47.5
+50				1.1	49.9
T. P.	11.35	62.21	0.18		50.86
50				10.0	52.2
+50				8.1	54.1
+92 △				5.4	56.8
51 + 50				2.6	59.6
Spk N.W. Cor. Allen's fence B. M.				0.95	61.26
52				1.6	60.6
T. P.	1.50	62.84	0.87		61.34
+50				1.0	61.8
	24.04		2.24		

+55				0.1	62.7
53				2.6	60.2
+50				5.4	57.4
54				8.1	54.7
+50				10.8	52.0
T. P.	0.06	50.90	12.00		50.84
55				1.5	49.4
+50				4.7	46.2
56				8.0	42.9
+50				11.2	39.7
T. P.	0.68	40.29	11.29		39.61
57				5.3	35.0
+50				12.4	27.9
T. P.	2.47	31.14	11.62		28.67
58				6.1	25.0
+50				7.4	23.7
59				9.0	22.1
	3.21		34.91		

				11.2	19.9
+50					20.17
T. P.	1.24	21.41	10.97		
				5.7	17.7
60				5.1	16.3
+50				5.9	15.5
61				5.1	16.3
+50				4.7	16.7
+70				8.0	13.4
+82				8.1	13.3
62 +03				8.7	12.7
+50				8.9	12.5
63				9.4	12.0
+50				9.5	11.9
64				9.4	12.5
+50				9.1	12.3
65				9.0	12.4
+50				8.6	12.8
66					

Sta.	+	⊥	—	Rod	Elev.
Plug +43	5.90	17.33	7.98		13.43
67				2.7	14.6
+50				3.4	13.9
68				3.0	14.3
+50				4.2	13.1
69				4.6	12.7
+50				4.9	12.4
70				4.8	12.5
+50				5.0	12.3
71				5.1	12.2
+50				5.0	12.3
72				4.8	12.5
+50				4.4	12.9
73				4.1	13.2
+50				3.6	13.7
74				2.5	14.8
Plug T. P. +26	8.43	24.57	1.19		16.14
	12.38		9.17		

Sta.	+	⊥	—	Rod	Elev.
+50				7.2	17.4
75				4.0	20.6
+50				2.9	21.7
76				2.7	21.9
+50				3.1	21.5
77				3.9	20.7
Plug +47				5.58	18.99
78				9.3	15.3
+50				12.0	12.6
+78				12.4	12.2
79				12.6	12.0
+50				11.7	12.9
80				11.4	13.2
+50				11.0	13.6
T. P.	5.62	19.23	10.96		13.61
81				5.6	13.6
+50				5.4	13.8

Sta.	+	⊙	−	Rod	Elev.
82				5.3	13.9
+50				5.1	14.1
83				5.4	13.8
+50				6.0	13.2
84				6.6	12.6
+50				6.7	12.5
85				6.4	12.8
+50				5.8	13.4
86				5.2	14.0
+50				5.2	14.0
87				4.8	14.4
+50				4.5	14.7
88				3.8	15.4
+50				3.7	15.5
T. P.	4.72	20.55	3.40		15.83
89				5.3	15.3
+50				4.8	15.8

Sta.	+	⊙	−	Rod	Elev.
90				5.4	15.2
+50				5.3	15.3
91				5.2	15.4
+50				5.0	15.6
92				4.8	15.8
+50				4.7	15.9
93				4.4	16.2
+50				4.3	16.3
94				4.0	16.6
+50				3.8	16.8
95				3.9	16.7
+50				3.7	16.9
96				3.4	17.2
T. P.	4.86	22.15	3.26		17.29
+50				5.1	17.1
97				4.8	17.4
+50				5.0	17.2

Sta.	+	~~o~~	−	Rod	Elev.
98				5.2	17.0
+50				5.2	17.0
99				5.2	17.0
+50				5.2	17.0
100				5.0	17.2
+50				4.6	17.6
101				4.4	17.8
+50				4.3	17.9
102				4.2	18.0
+50				3.8	18.4
103				3.5	18.7
+50				3.4	18.8
T.P.	5.10	24.08	3.17		18.98
104				5.2	18.9
+50				5.0	19.1
105				4.7	19.4
+40				4.9	19.2

Sta.	+	~~o~~	−	Rod	Elev.
106				4.8	19.3
+50				5.6	18.5
107				5.3	18.8
+50				5.0	19.1
108				4.8	19.3
+50				4.6	19.5
109				4.4	19.7
+50				4.4	19.7
110				4.3	19.8
+50				4.2	19.9
111				4.1	20.0
T.P.	4.93	25.28	3.73		20.35
+50				5.1	20.2
112				5.0	20.3
+50				4.9	20.4
113				4.5	20.8
+19				4.8	20.5

Sta.	+	0	−	Rod	Elev.
U.S.G.S. B.M. At Fork of Road Near Country Hospital				2.92	22.36 (28)
+50				5.0	20.3
114				5.5	19.8
+50				5.8	19.5
115				5.0	20.3
+50				5.8	19.5
116				5.8	19.5
+50				5.7	19.6
+84				5.8	19.5
117 +50				5.6	19.7
118				5.4	19.9
+50				5.1	20.2
119				5.0	20.3
+50				4.8	20.5
120				5.0	20.3
+50				4.8	20.5
121				5.0	20.3

Sta.	+	0	−	Rod	Elev.
T.P.	4.63	25.48	4.43		20.85
+50				5.0	20.5
122				5.1	20.4
+50				5.2	20.3
123				4.7	20.8
Apk. in tel. pole, N.W. cor. Granville and Poway Road				2.87	22.61
+50				4.6	20.9
124				4.7	20.8
+50				5.3	20.2
125				5.3	20.2
+50				5.1	20.4
126				4.9	20.6
+50				4.8	20.7
127				4.7	20.8
+50				4.4	21.1
128				4.3	21.2
T.P.	6.15	27.74	3.89		21.59
	10.78		8.32		

Sta.	+	o	−	Rod	Elev.
+50				6.4	21.3
129				6.2	21.5
+50				6.0	21.7
130				5.9	21.8
+50				5.7	22.0
131				5.5	22.2
+50				5.4	22.3
132				5.1	22.6
+50				4.9	22.8
133				4.9	22.8
+50				4.5	23.2
134				4.2	23.5
+50				3.8	23.9
135				3.9	23.8
+50				3.4	24.3
T. P.	5.13	30.15	5.72		25.02
136+00				5.6	24.6

Sta.	+	o	−	Rod	Elev.
+50				5.7	24.5
137				5.4	24.8
+50				5.1	25.1
138				4.9	25.3
+50				4.9	25.3
139				5.0	25.2
+50				5.0	25.2
140				5.0	25.2
+50				5.0	25.2
141				5.0	25.2
+50				4.9	25.3
142				4.4	25.8
+50				4.2	26.0
T. P. (sp?)	5.06	30.86	4.35		25.80 ✓
143+12				4.8	26.1
144				4.6	26.3
+50				4.8	26.1

Sta.	+	⊙	−	Rod	Elev.
145				5.2	25.7
+50				5.2	25.7
146				5.2	25.7
+48				4.9	26.0
Spk in post S. angle of fence, opp. Sta. 146+60				3.45	27.41
147+48				4.8	26.1
148				4.6	26.3
T.P.	4.96	31.57	4.25		26.61
+50				5.4	26.2
149				5.3	26.3
+50				5.2	26.4
150				5.4	26.2
151				5.3	26.3
+50				5.3	26.3
152				5.1	26.5
+50				5.0	26.6
153				4.9	26.7

Sta.	+	⊙	−	Rod	Elev
+50				4.8	26.8
154				4.7	26.9
+50				4.7	26.9
155				4.9	26.7
+65				5.0	26.6
T.P.	6.40	33.32	4.65		26.92
156+65				6.6	26.7
157+65				6.6	26.7
158				6.5	26.8
+50				6.2	27.1
159				5.4	27.9
+50				4.9	28.4
160				5.0	28.3
+50				4.8	28.5
161				4.7	28.6
+50				4.6	28.7
162				4.4	28.9

Sta.	+	⊥	−	Rod	Elev.
+50				4.3	29.0
163				4.3	29.0
+50				4.2	29.1
164				4.1	29.2
T.P.	5.58	35.34	5.56		29.76
+50				5.8	29.5
165				5.8	29.5
+50				5.8	29.5
166				5.9	29.4
+50				5.7	29.6
167				5.6	29.7
+50				5.6	29.7
168				5.6	29.7
+50				5.5	29.8
169				5.2	30.1
+50				5.1	30.2
170				5.1	30.2

Sta.	+	⊥	−	Rod	Elev.
Spk. in Wooden gate post, School House B.M.				3.93	31.41
+48 △				5.0	30.3
171				4.5	30.8
+50				4.1	31.2
172				4.0	31.3
T.P.	4.44	35.91	3.87		31.47
+50				4.4	31.5
173				4.6	31.3
+50				4.3	31.6
174				4.3	31.6
+09 △				4.3	31.6
+50				4.3	31.6
175				4.3	31.6
+50				4.6	31.3
176				4.8	31.1
+50				4.9	31.0
177				5.0	30.9

Sta.	+	⊙	−	Rod	Elev.
+50				4.7	31.2
178				4.2	31.7
+50				3.9	32.0
Plug 8 +95 △	8.33	40.44	3.80		32.11
179 +50				7.0	33.4
180				6.1	34.3
+50				5.1	35.3
181				4.2	36.2
+22 △				3.6	36.8
+50				3.9	36.5
182				4.5	35.9
+50				5.4	35.0
183				5.9	34.5
+50				6.7	33.7
184				6.9	33.5
+50				6.6	33.8
185				6.1	34.3

Sta.	+	⊙	−	Rod	Elev.
+50				6.1	34.3
186				5.9	34.5
T. P.	5.59	40.58	5.45		34.99
+50				5.8	34.8
187				5.7	34.9
+50				5.4	35.2
188				5.3	35.3
+50				5.3	35.3
189				5.2	35.4
+50				4.7	35.9
190				2.7	37.9
T. P.	8.19	48.09	0.68		39.90
+50				8.0	40.1
191				5.8	42.3
+50				4.5	43.6
192				4.0	44.1
+50				3.0	45.1

Sta.	+	0	−	Rod	Elev.
193				3.2	44.9
+50				4.6	43.5
194				5.8	42.3
+50				6.2	41.9
195				6.9	41.2
T. P.					
Plug +56 △	4.75	45.61	7.23		40.86
196				3.7	41.9
+50				3.1	42.5
Sq'k. in 4"x4" Post, S.E. Cor 1108 B.M.				6.67	38.94
197				2.7	42.9
+50				4.0	41.6
198				5.6	40.0
+50				6.6	39.0
199				6.8	38.8
+50				6.8	38.8
200				6.5	39.1

Sta.	+	0	−	Rod	Elev.
+50				6.2	39.4
Plug +95 △	4.00	43.90	5.71		39.90
201 +15 △				4.2	39.7
+50				4.5	39.4
202				4.7	39.2
+50				4.7	39.2
203				4.9	39.0
+50				5.1	38.8
204				5.3	38.6
+50				5.6	38.3
205				5.6	38.3
+50				5.3	38.6
206				5.1	38.8
+50				4.6	39.3
207				3.9	40.0
+50				3.1	40.8
208				1.7	42.2

Sta.	+	⊙	−	Rod	Elev
+50				0.7	43.2
T. P.	6.70	49.76	0.54		43.06
209				6.2	43.6
+50				5.4	44.4
210				5.3	44.5
+50				4.8	45.0
211				4.3	45.5
+50				3.2	46.6
212				3.8	46.0
+50				5.0	44.8
213				5.1	44.7
+50				4.6	45.2
214				4.6	45.2
+50				5.0	44.8
215				5.1	44.7
+50				5.1	44.7
216				5.3	44.5

Sta.	+	⊙	−	Rod	Elev.
T. P.	11.26	55.79	5.23		44.53
1½" Pipe +50				11.0	44.8
217				9.4	46.4
+50				7.5	48.3
218				4.5	51.3
+50				1.7	54.1
T. P.	11.25	65.80	1.24		54.55
219				8.9	56.9
+50				6.9	58.9
220				5.6	60.2
+50				4.4	61.4
+96				1.3	64.5
T. P.	4.97	70.21	0.56		65.24
221+50				4.3	65.9
222				5.1	65.1
+50				5.3	64.9
+97.5 City Limits				5.9	64.3
Spike in end post, N. side And at City Line B.M.			5.93		64.28

24/2/02 Levels from Sta. 26+12 to Sta. 39+65

Straight Line

Sta.	+	s	−	Rod	Elev.
Plug 0 = 26+12	5.94	15.37			9.43
+50				6.1	
1				5.3	
+50				5.3	
2				4.8	
+50				5.1	
3				4.9	
+50				5.3	
4				5.2	
+50				6.1	
5				5.9	
+50				5.7	
6				4.9	
+50				5.0	
7				4.7	
+50				4.3	
8				4.9	

Abandoned

Sta.	+	s	−	Rod	Elev.
T. P.	11.04	21.64	4.77		10.60
+50				10.5	
9				10.8	
+50				10.8	
10				10.5	
+50				10.4	
11				10.0	
+50				10.7	
12				10.3	
+50				9.4	
13				6.4	
= +16 39+65				5.0	16.6

Abandoned

25/2/02

Levels for Road from the center of Taylor and Hickory to Sta. 39+65, previous Survey,

Sta.	+	0	−	Rod	Elev.
Cap Rock, top S. Pier, S. End Iron Bridge	7.99	19.97			11.98
0				3.2	16.8
+50				6.9	13.1
1				8.2	11.8
+50				7.8	12.2
+90				4.8	15.2
2 +50				4.8	15.2
3				4.7	15.3
+50				5.4	14.6
4				6.3	13.7
+50				6.2	13.8
5				5.4	14.6
+50				5.7	14.3
6				6.3	13.7
+50				7.0	13.0
7				5.1	14.9
Plug +34	4.59	22.07	2.49		17.48
	12.58				

Sta.	+	0	−	Rod	Elev.
+50				5.0	17.1
8				5.1	17.0
+50				6.1	16.0
9				4.6	17.5
+50				2.7	19.4
10				2.0	20.1
+50				2.1	20.0
+74				1.9	20.2
11				2.2	19.9
+25				2.5	19.6
+30				7.5	14.6
+60				7.5	14.6
12				10.0	12.1
T. P.	2.23	15.40	8.90		13.17
High Water Mark 1894-95				2.54	12.86
Spk N.E. cor fence front of Eng. Room				2.87	12.53
+50				4.5	10.9

Sta.	+	⊙	−	Rod	Elev.
13				4.6	10.8
+50				4.9	10.5
14				5.6	9.8
+50 △				6.9	8.5
T. P.	9.65	17.14	7.91		7.49
15				8.9	8.2
16 +50				10.0	7.1
16				10.8	6.3
+50				7.8	9.3
17				3.7	13.4
+24				1.1	16.0
T. P.	11.54	28.45	0.23		16.91
+28				5.3	23.2
+41				4.4	24.1
18				3.6	24.9
+08 △				2.0	26.5
+50				10.7	17.8
	21.19		8.14		

Sta.	+	⊙	−	Rod	Elev.
19				12.2	16.3
T. P.	3.03	20.61	10.87		17.58
+50				5.0	15.6
Bug +80 △				4.71	15.90
20				5.7	14.9
+50				7.1	13.5
21				6.5	14.1
+50				6.6	14.0
22				4.4	16.2
+50				2.1	18.5
T. P.	7.25	23.10	4.76		15.85
23				3.3	19.8
+50				4.9	18.2
24				7.0	16.1
+50				4.4	18.7
25				5.7	17.4
+50				4.6	18.5
	10.28		15.63		

Sta.	+	⊙	—	Rod	Elev.
+79 △				3.5	19.6
26				5.8	17.3
+50				9.5	13.6
27				9.4	13.7
+50				5.5	17.6
28				6.0	17.1
+50				8.9	14.2
29				9.3	13.8
+50				8.2	14.9
30				3.8	19.3
Plug +28 △	1.96	22.65	2.41		20.69
+50				1.0	21.7
31				4.2	18.5
+50				6.5	16.2
32				8.0	14.7
+50				7.9	14.8
33 Plug △				5.39	17.26

Sta.	+	⊙	—	Rod	Elev.
+50				8.5	14.2
34				8.1	14.6
+50				5.9	16.8
+81.8 △ =39+65				5.9	16.8

27/2/02 Lavels on Poway Road, Mission Valley

Pumpy

Davis

Sta	+	o	—	Rod	Elev.
Spk in tel. pole N.W. cor. Poway 4.11 and Grantville Road		26.72			22.61
0				5.8	20.9
+50				5.8	20.9
1				6.0	20.7
+50				5.9	20.8
2				6.2	20.5
3				5.9	20.8
+50				5.4	21.3
4				5.7	21.0
+50				5.9	20.8
5				6.4	20.3
+50				6.3	20.4
6				6.5	20.2
+50				5.9	20.8
T.P.	4.69	25.74	5.67		21.05
Flor of Schinkel's Store; High Water Mark 94 + 95				1.25	24.49
7				4.5	21.2
7 +50				5.4	20.3
	8.80				

Sta	+	o	—	Rod	Elev.
8				5.8	19.9
8 +50				6.1	19.6
9				5.6	20.1
+50				5.0	20.7
10				4.6	21.1
10 +50				4.0	21.7
T.P.	4.19	26.02	3.91		21.83
11				4.3	21.7
+50				4.4	21.6
12				3.9	22.1
+50				4.5	21.5
13				4.2	21.8
+50				4.3	21.7
14 + 00				4.3	21.7
S. Bank River +13				4.8	21.2
+21				7.2	18.8
+35				8.3	17.7

Sta.	+	o	−	Rod	Elev.
+50				7.9	18.1
15				8.4	17.6
+50				8.8	17.2
16				8.1	17.9
+14				8.5	17.5
N. Bank River ↓ +20				7.5	18.5
+50				7.1	18.9
17				6.9	19.1
T. P.	5.95	25.22	6.75		19.27
+50				5.3	19.9
18				5.7	19.5
+50				5.8	19.4
19				6.1	19.1
+50				4.8	20.4
20				5.8	19.4
+50				4.8	20.4
21				4.6	20.6

Sta.	+	o	−	Rod	Elev.
+50				4.1	21.1
22				4.0	21.2
+50				5.0	20.2
+72				7.0	18.2
+82				4.7	20.5
23				4.0	21.2
+50				4.4	20.8
24				2.6	22.6
T. P.	4.27	27.00	2.49		22.73
+50				4.7	22.3
25				6.2	20.8
+50				6.8	20.2
spk. in tel. brace Pole Left 25+50 B.M.	8.62	34.50	1.12		25.88
+79 △				5.7	28.8
26				5.2	29.3
T. P.	11.13	39.90	5.73	[illegible]	28.77
+50				5.9	34.0
	24.02		9.34		

Sta.	+	⊖	−	Rod	Elev.
27				1.9	38.0
T. P.	10.77	49.52	1.15		38.75
+50				5.5	44.0
28				2.1	47.4
+50				3.8	45.7
29				9.3	40.2
T. P.	6.90	44.48	11.94		37.58
+50				8.4	36.1
30				8.1	36.4
+50				7.6	36.9
31				7.4	37.1
+50				7.1	37.4
32				7.2	37.3
+47.6				9.0	35.5
Spk in tel. pole near Road, at last station			6.33		38.15
	17.67		19.42		

3/3/02 Level for Road, from the end of Old Town Dyke, to Morena

Sta.	+	o	−	Rod	Elev.
Top 4"x4" Post N.W. Cor. Lot 285					
B.M.	1.80	25.04			23.24
Plug at foot of Post, U.S.G.S. B.M.				3.30	21.74
Graded Road					
0				10.5 ✓	14.5
+50				9.5 ✓	15.5
1				5.6 ✓	19.4
+50				4.0 ✓	21.0
2				5.8 ✓	19.2
+50				6.1 ✓	18.9
+85				6.5 ✓	18.5
3				7.5 ✓	17.5
+25				7.2 ✓	17.8
+50				7.8 ✓	17.2
4				6.5 ✓	18.5
+50				6.3 ✓	18.7
5				6.4 ✓	18.6
+50				6.0 ✓	19.0
6				4.9 ✓	20.1

Sta.	+	o	−	Rod	Elev.
+50				4.6 ✓	20.4
7				4.3 ✓	20.7
+50				2.7 ✓	22.3
T.P.	7.25	31.06	1.23		23.81
8				6.7 ✓	24.4
+50				5.3 ✓	25.8
9				4.5 ✓	26.6
+50				2.8 ✓	28.3
10				0.9 ✓	30.2
+25				0.6 ✓	30.5
+50				1.7 ✓	29.4
11				6.1 ✓	25.0
+50				7.6 ✓	23.5
12				7.9 ✓	23.2
+50				7.6 ✓	23.5
13				7.8 ✓	23.3
+50				8.6 ✓	22.5

Sta.	+	0	−	Rod	Elev.
14				11.0 ✓	20.1
T. P.	1.33	21.40	10.99		20.07
+50				4.8 ✓	16.6
15				6.1 ✓	15.3
+50				7.3 ✓	14.1
16				8.3 ✓	13.1
+50				9.0 ✓	12.4
17				9.9 ✓	11.5
+20				11.2 ✓	10.2
T. P.	5.31	15.64	11.07		10.33
1½ x 2 Box +50				12.0 ✓	3.6
+65				11.4 ✓	4.2
+85				6.0 ✓	9.6
18				5.0 ✓	10.6
+50				3.4 ✓	12.2
19				3.2 ✓	12.4
+50				2.3 ✓	13.3
	6.64		22.06		

Sta.	+	0	−	Rod	Elev.
20				1.8 ✓	13.8
+50				2.0 ✓	13.6
21				2.5 ✓	13.1
+25				3.5 ✓	12.1
+50				8.1 ✓	7.5
T. P.	2.99	7.17	11.46		4.18
22				7.0 ✓	0.2
+18				7.6 ✓	−0.4
Level bet. these Stations					
Plug 26+93	6.94	6.55	7.56	✓	−0.39
27 +50				6.8 ✓	−0.25
28 opp. R.R. Bridge 159				6.4 ✓	0.2
+50				6.4 ✓	0.2
29				6.3 ✓	0.3
+50				5.7 ✓	0.9
spike in tel. Pole United Mala Post, 263 B.M.				4.71	1.84
30				5.3 ✓	1.3
+50				5.0 ✓	1.6
	9.93		19.02		

Sta.	+	⊙	−	Rod		Elev.
31				4.6	✓	2.0
+50				4.0	✓	2.6
32				3.8	✓	2.8
+50				3.6	✓	3.0
33				3.4	✓	3.2
+50				3.4	✓	3.2
34				3.0	✓	3.6
T. P.	4.02	7.69	2.88			3.67
Appr. R. R. Bridge 158						
+50				3.9	✓	3.8
35				4.9	✓	2.8
+18				3.8	✓	3.9
+50				4.1	✓	3.6
36				4.6	✓	3.1
+50				4.7	✓	3.0
37				4.7	✓	3.0
+50				5.2	✓	2.5
38				6.2	✓	1.5

Sta.	+	⊙	−	Rod		Elev.
+50				6.1	✓	1.6
39				6.4	✓	1.3
+50				6.5	✓	1.2
Appr. R. R. Bridge 157½						
+40				6.7	✓	1.0
T. P.	3.73	4.94	6.48			1.21
+50				4.0	✓	0.9
41				4.4	✓	0.5
+50				4.4	✓	0.5
42				4.5	✓	0.4
+50				4.6	✓	0.3
43				4.5	✓	0.4
+50				4.7	✓	0.2
44				3.3	✓	1.6
+50				0.9	✓	4.0
T. P.	7.60	11.32	1.22			3.72
45				4.8	✓	6.5
+50				3.5	✓	7.8
	11.33		7.70			

Sta.	+	o	−	Rod	Elev.
46				3.2 ✓	8.1
+50				3.3 ✓	8.0
47				4.6 ✓	4.7
+50				6.1 ✓	5.2
48				7.4 ✓	3.9
+50				7.2 ✓	4.1
Plug +75 △				5.65 ✓	5.67
49				5.6 ✓	5.7
+50				1.0 ✓	10.3
T. P.	8.88	19.43	0.77		10.55
50				6.1 ✓	13.3
+50				1.5 ✓	17.9
T. P.	10.30	28.72	1.01		18.42
+88 △				5.7 ✓	23.0
51				4.9 ✓	23.8
+50				2.5 ✓	26.2
52				2.1 ✓	26.6

Sta.	+	o	−	Rod	Elev.
+50				0.6	28.1
Plug +72 △				0.42	28.30
53				1.1	27.6
+50				4.3	24.4
54				8.0	20.7
+50				11.1	17.6
spike T. P.	3.27	20.98	11.01		17.71
Plug +85 △				4.46	16.52
55				4.6	16.4
+50				6.2	14.8
56				6.4	14.6
+50				6.9	14.1
57+04 △				7.8	13.2
+50				8.8	12.2
1/2 Line 58				9.3	11.7
+50				8.9	12.1
59				8.8	12.2

Sta.	+	o	−	Rod	Elev.
+50				8.1	12.9
60				8.7	12.3
T. P.	6.86	19.37	8.47		12.51
+50				7.7	11.7
61				8.0	11.4
+50				7.3	12.1
62				6.9	12.5
+50				6.4	13.0
63				6.3	13.1
+50				6.4	13.0
64				6.3	13.1
+50				6.1	13.3
65				6.8	12.6
+50				6.9	12.5
66				6.9	12.5
+50				8.0	11.4
67				9.6	9.8

Sta.	+	o	−	Rod	Elev.
T. P.	4.56	14.66	9.27		10.10
+50				6.1	8.6
68				6.6	8.1
1½ x 2' Box +50				7.2	7.5
69				6.5	8.2
+50				5.9	8.8
70				5.7	9.0
+50				6.6	8.1
71				7.0	7.7
+50				7.0	7.7
72				6.9	7.8
+50				6.5	8.3
73				6.1	8.6
+50				5.4	9.3
74				4.1	10.6
T. P.	6.27	17.12	3.81		10.85
+50				5.8	11.3

Sta.	+	o	—	Rod	Elev.
75				5.4	11.7
1"x1½" Bot +50				7.4	9.7
76				6.4	10.7
+50				5.4	11.7
77				5.5	11.6
+50				6.3	10.8
78				6.4	10.7
+50				6.5	10.6
79				6.6	10.5
+50				6.9	10.2
80				7.7	9.4
+50				8.2	8.9
81				8.9	8.2
T. P.	3.66	12.19	8.59		8.53
+50				5.0	7.2
82				5.9	6.3
+50				6.4	5.8

Sta.	+	o	—	Rod	Elev.
83				6.4	5.8
+50				6.6	5.6
84				6.8	5.4
+50				7.2	5.0
85				7.1	5.1
1"x1½" Bot +50				7.4	4.8
86				7.2	5.0
+50				6.3	5.9
87				5.7	6.5
+50				5.0	7.2
88				4.5	7.7
+50				3.9	8.3
89				2.7	9.5
T. P.	9.66	19.46	2.39		9.80
+50				9.0	10.4
90				8.8	10.7
+20				8.6	10.9
+50				8.4	11.1

Sta.	+	o	−	Rod	Elev.
91				8.2	11.3
+50				7.1	12.4
92				6.1	13.4
B.M. No 8				6.77	(12.66) 12.69
+50				5.2	14.3
93				4.1	15.4
+35 △				3.5	16.0
+50				3.4	16.1
94				3.0	16.5
+50				3.1	16.4
95				3.7	15.8
+50				4.0	15.5
96				3.5	16.0
↗ +18.5 △ Spk floor of Bridge				3.40	16.06

6/3/02 Levels along the Center line of Front St from Walnut ave. to Laurel St.

Penny
Ken
Dovin

Sta.	+	o	−	Rod	Elev.
Top stone wall S.E. Laurel and Front B.M.	2.53	212.12			209.59
Laurel +40				5.2	206.92
0 N. line				4.8	207.32
+50				3.9	208.22
1				3.7	208.42
+50				2.5	209.62
+75				2.3	209.82
2				3.4	208.72
+50				3.7	208.42
3				4.1	208.02
Maple +40				2.5	209.62
0 = +80				1.1	211.02
T.P.	2.85	214.19	0.78		211.34
+50				2.7	211.49
1				2.6	211.59
+50				2.4	211.79
2				6.0	208.19
	5.38		0.78		

Front St.

Sta.	+	o	−	Rod	Elev.
+12				8.0	206.19
T. P.	0.24	203.22	11.21		202.98
+50				10.9	192.32
T. P.	0.73	192.40	11.55		191.67
"	1.20	182.00	11.60		180.80
"	0.80	171.24	11.56		170.44
3				7.3	163.94
T. P.	0.44	160.15	11.53		159.71
"	1.03	149.54	11.64		148.51
+40				7.5	142.04
+47				12.6	136.94
=0 +80				1.0	148.54
T. P.	3.35	152.23	0.66		148.88
+50				0.2	152.03
+83				5.1	147.13
1				5.4	146.83
+50				3.9	148.33
	7.79		69.75		

Northing

Front St.

Sta.	+	o	−	Rod	Elev.
+82				4.6	147.63
2				7.6	144.63
T. P.	0.47	141.04	11.66		140.57
+50				3.0	138.04
+95				10.4	130.64
T. P.	0.95	130.35	11.64		129.40
3				2.2	138.84
+20				9.6	131.44
+40				2.6	138.44
T. P.	11.50	140.99	0.86		129.49
=0 +80				4.9	136.09
T. P.	11.84	152.40	0.43		140.56
+50				7.0	145.40
T. P.	11.60	163.38	0.62		151.78
4				6.0	157.38
T. P.	11.60	174.16	0.82		162.56
"	11.26	184.84	0.58		173.58
	59.22		26.61		

Rod

Front St.

Sta.	+	o	−	Rod	Elev.
+50				5.8	157.58
T. P.	11.54	196.05	0.33		184.51
"	12.00	207.66	0.39		195.66
2				5.0	202.66
T. P.	7.72	215.01	0.37		207.29
"	9.35	224.02	0.34		214.67
+32				8.0	216.02
+50				4.1	219.92
3				1.2	222.82
Pedro +40				0.6	223.42
=0 +80				0.9	223.12
+50				2.1	221.92
1				5.5	218.52
+50				11.2	212.82
T. P.	0.20	212.90	11.32		212.70
2				7.2	205.70
T. P.	0.47	201.75	11.62		201.28
	41.28		24.37		

Front St.

Sta.	+	o	−	Rod	Elev.
T. P.	0.72	191.10	11.37		190.38
+50				2.2	188.90
T. P.	0.53	179.82	11.81		179.29
3				1.5	178.32
Pedro +28				13.6	166.22
+40				11.1	168.72
T. P.	11.77	190.73	0.86		178.96
=0 +80				3.4	187.33
T. P.	11.71	201.22	1.22		189.51
"	11.87	212.45	0.64		200.58
+50				4.3	208.15
T. P.	10.96	221.99	1.42		211.03
+63				6.5	215.49
T. P.	11.32	231.66	1.65		220.34
1				8.6	223.06
+50				3.5	228.16
2				1.2	230.46
	58.88		28.97		

Front St.

Sta.	+	o	−	Rod	Elev.
+19				2.5	229.16
T. P.	0.98	220.88	11.76		219.90
+50				8.6	212.28
T. P.	0.36	209.67	11.57		209.31
"	0.40	198.42	11.65		198.02
3				9.6	188.82
T. P.	0.64	187.26	11.80		186.62
+40				17.3	169.96
Redwood +80				5.5	181.76
T. P.	11.67	198.24	0.69		186.57
"	11.86	209.75	0.35		197.89
+50				6.9	202.85
T. P.	11.69	220.99	0.45		209.30
+80				5.3	215.69
1				0.1	220.89
T. P.	8.23	229.22	0.00		220.99
"	11.58	240.48	0.32		228.90
	57.41		48.59		

Front St.

Sta.	+	o	−	Rod	Elev.
+40				8.8	231.68
+50				9.1	231.38
2				7.6	232.88
+50				7.2	233.28
3				6.7	233.78
Spruce +40				7.1	233.38
=0 +80				4.3	236.18
+50				3.4	237.08
1				3.4	237.08
+50				3.3	237.18
2				4.3	236.18
Peg	2.08	238.46	4.10		236.38
+30				4.7	233.76
T. P.	6.78	234.28	10.96		227.50
+70				14.4	229.88
3				6.3	227.98
T. P.	12.85	239.35	6.78		227.50

Front St.

Sta.	+	0	−	Rod	Elev
Thorn +40				5.5	233.85
= 0 +80				3.4	235.95
+50		Corrected		2.6	236.75
T. P.	5.09	241.92	2.59		236.76
Poly N.E. Thorn and Front					(238.73)
B. M.				3.19	238.66
1				4.8	237.12
+18				6.2	235.72
T. P.	2.50	233.11	11.31		230.61
+50				10.5	222.61
T. P.	1.51	223.50	11.12		221.99
+97				12.3	211.20
2				11.8	211.70
T. P.	10.35	233.30	0.55		222.95
"	11.85	243.51	1.64		231.66
+50				10.2	233.31
+58				7.0	236.51
3				4.7	238.81
	31.30		27.21		

Front St.

Sta.	+	0	−	Rod	Elev.
Upon +40				4.2	239.31
= 0 +80				3.6	239.91
+50				2.5	241.01
1				1.8	241.71
T. P.	11.47	254.70	0.29		243.22
+50				11.2	243.50
+66				4.8	249.90
Center Walnut 2 +06				3.9	250.80
T. P.	8.02	261.27	1.45		253.25
Point			6.81		254.46

Basker St. from the center of alley bet 1st and Albatron to 2nd St.

Sta.	+	0	−	Rod	Elev.
					See last Page
T. P.	5.67	260.13			254.46
center alley 0				10.0	250.13
+50				9.1	251.03
1				8.0	252.13
+50				6.2	253.93
2				4.8	255.33
+50				1.9	258.23
T. P.	8.83	267.40	1.56		258.57
3				6.6	260.80
+50				7.3	260.10
4				9.6	257.80
+32				10.6	256.80
+50				8.3	259.10
5				4.6	262.80
center 2nd St. ↓ +25				2.8	264.60

 11/15/02

Intersection of 6th + K.

S.W. Cr. ✓ Granite Cont. - Bitumen Walk
N.W. " ✓ " " " "
S.E. " ✓ " " " "
N.E. " ✓ " " Cement Walk.

6th to 7th,

No. side ✓ all in - Cement C + Walk.
So. " ✓ 1st 100' from 6th, Cement Cont and Bitumen Walk.

Int. 7th + K.

N.W. + N.E. Cr. Cement Cont and Walk.
7th to 8th - No. side " " "
N.E. + N.W. 8th + K. " " "
8th to 9th - No. side " " "
N.W. 9th + K. " " "
N.E. " " Granite " + C. "

9th to 10th

W. 1/2 - G. Cont - Cement Walk

E. 1/2 - Cement C. + Walk ✓
10th + K. - N.W. + N.E. Cement C. + W.
10th to 11th, (No. side) ✓ " " "
11th + K. - N.W. + N.E. ✓ " " "
N.W. 12th + K. ✓ " " "
There should not be any return at 14th + K.

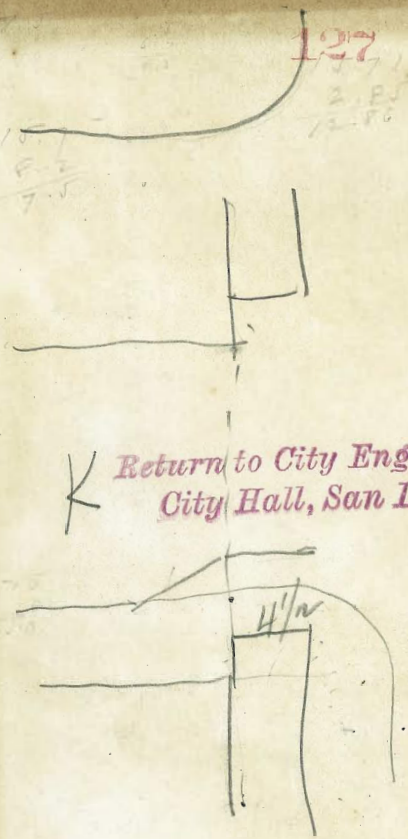
Between 15th + 16th -
No. side E. 100' Cement Walk. E² of E. 100' Granite Cont - W² of E. 100' Cement Cont -
So. side - E. 50' Cement C. + W.
N.W. 16th + K. Granite C. and Cement W.
S.W. " " Cement Walk + C.
Bet'n 16 + 17 - No. side. E. 35' C. walks
N.W. - 17 + K. Cement C. + W. except 4 1/2 at N. Cor.
N.E. 17 + K. Granite Cont. Cement Walk. ✓

Betn 17th + 18 – No. side W. 100'
Granite Cut, Cement Walk
So. side, E. 100' Cement B. + W.
S.W. 18th + K. Cement B. + W. –
N.E. 20 + K. " " "
B. 20 + 21st. No. side all – Cement B. + W.
NW. + N.E. 21st + K. Cement B. + W.
Betn 21st + 22d. Cement B. + W. all on
N.W. – N.E. + S.E. Cement B. + W.
Betn 22d + 24 No. side – W 100' – Cement B. + W.
So. side W. 70½ " " "

6th St. Betn Cedar + Beech.
W. side, Cem. B. + W. all on but No. 50'
E. " " " " " " No. 75'
N.W. + N.E. Beech + 6th Cement B. + W.
Ash to be Adv. for.
N.E. + N.W. 6th + A. Cem B. + W.
Betn A and Ash, West side So. 100'
Cem. Cut + W. –

No.	Elev.	
36	378.72	Spike in tel. pole Left Sta. 80
37	229.46	Spike in " " Right Sta 30+50
38	208.62	" " tree 50' Left Sta. (1+50)
39	365.63	" " tel pole, 8' Right Sta 18. (Sorrento Road)
40	135.75	" " " " Left 64+25 (Sorrento Road)
41	25.44	U. S. G. S. B. M. Sorrento Sta
42	16.69	Cop. tack top East pile, North end Bridge No. 129 Col. & C. R. R.
43	8.39	Cop. tack top East pile, South end bridge No 128 C. S. R. R.
44	3.51	Cop. tack top. East pile, North end Bridge No. 127
45	7.78	East cor. Granite Monument on Eastern Boundary near Cordero Sta
2	23.24	4" x 4" Post, N.W. cor. P.L. 285

No		
28	369.90	spk in tel Pole head of cannon
30	390.79	East Cor. Granite Monument to P.L's 1311, 1312, 1313, 1314
7	13.31	
8	12.66	
9	15.87	
10	5.94	
11	9.55	
12	19.21	U.S.G.S. B.M. at Pace Track
Marked Stone	142.64	Near Sta 297+50 (Main Track)
14	57.58	
15	98.15	
16	107.73	
1	11.98	Cof Track at Bridge



Return to City Engineers Office
City Hall, San Diego, Cal.

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

Return to City Engineers Office
City Hall, San Diego, Cal.

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
°		°		°		°	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

Levels on Pomoy Road
Mission Valley.
Page 108 to 111

Levels for Road from the
end of Old Town Dyke
to Morena.
Page 113 to 125.

Levels along the Center
line of Front St. from
Walnut Ave. to Laurel St.
Page 126 to 134

Brookes St. from the Center
of Alley bet. 1st. and Albatross
to 2nd. St.
Page 135

Sidewalks and Curbing
in an "K" St. from 6th.
to 24th. St.
Page 137 to 139.

Sidewalks and Curbing
on 6th St. bet. Cedar
and "F" St. Page 140