1820

DIETZGEN

ENGINEERS'

FIELD BOOK

No. 4085

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

INDEX

Walker
Hendricks
Becker
Johnson
12-26-47

Balboa Park - Bench Marks
Topog. Control "A" Line

			3.13	245.00
T.P.	11.06	248.13	0.39	237.07
T.P.	0.39	238.72	7.13	230.33
T.P.	13.13	237.46	0.39	224.33
T.P.	12.70	224.72	0.04	212.02
T.P.	13.16	212.06	0.42	198.90
T.P.	12.16	199.32	0.18	187.16
T.P.	12.62	187.34	3.60	174.72
T.P.	12.39	178.32	0.39	165.93
T.P.	13.07	166.32	0.09	153.25
T.P.	12.80	153.34	11.17	140.54
T.P.	0.12	151.71	12.17	151.59
T.P.	0.40	163.76	12.72	163.36
T.P.	2.29	176.08	12.52	173.79
CP #2			1.07	186.31
T.P.	0.09	187.38	12.68	187.29
T.P.	2.61	199.97	12.58	197.36
			210.03 = Record	
CP #1			5.30	209.94
		* Cont. P.B.		
T.P.	6.49	215.24	4.81	208.75
T.P.	5.70	213.56	2.37	207.86
T.P.	12.55	210.23	0.55	197.68
T.P.	12.20	198.23	0.12	186.03
T.P.	2.78	186.15	3.91	183.37
B.M.	11.29	187.28		175.99

Hub 37+43.19 C.P. #7
Ld. & Disk 33+59.78 C.P. #6
Hub Sta. 30+30.41 C.P. #5

Hub 26+67.10 C.P. #4

Void
New Levels
P-5

Hub Sta. 24+43.10 C.P. #3

Hub Sta 22+70.23 C.P. #2

Hard Copy Note: Mon. is worn off some Probably by amount of diff.
Mon. CP #1 Sta. 20+27.20
State on Fence Line Lt. of Starting Mon

B.M. C.T. Ld. Plg. North end Balboa St. Stadium in Front Ticket office

Balboa Park - Bench Marks
Topog. Control "A" Line

Void .5c p.b

= End "A" Line

→ Cont. p.4

T.P.	4.93	262.37	5.01	257.44
T.P.	8.25	262.45	1.38	254.20
T.P.	8.29	255.58	5.74	247.29
T.P.	8.16	253.03	3.26	244.87
		248.13		

on Paving over Ld. & Disk	46+22.01	C.P. #12
Ld. & Disk	42+13.61	C.P. #9
on Pav. over Ld. & Disk	38+98.95	C.P. #8
on Pav. over Ld. & Disk	36+09.40	C.P. #7c.

~ Bench Marks – "C"-Line
Balboa Park Topog. Control

Void - See P. 6

T.P.	7.73	213.90	11.98	206.17
T.P.	1.16	218.15	12.25	216.99
			7.28	221.26
T.P.	2.00	229.24	11.20	227.24
T.P.	0.72	238.44	8.73	237.72
			11.36	235.09
T.P.	2.73	246.45	3.99	243.72
			5.76	241.95
T.P.	1.41	247.71	10.87	246.30
			7.45	249.72
			6.94	250.23
T.P.	0.54	257.17	12.62	256.63
T.P.	0.52	269.25	7.03	268.73
T.P.	1.39	275.76	6.49	274.37
T.P.	4.06	280.86	4.27	276.80
			4.58	276.49
T.P.	12.50	281.07	1.66	268.57
T.P.	9.13	270.23	1.27	261.10
			7.02	255.35

262.37
⊼ from P-3

Hub	41+81.81	C.P. 34
Hub	38+10.68	
Hub	35+98.63	C.P. 32
Spike	32+42.39	C.P. 30
Hub		C.P. #31
Hub	29+34.60	C.P. #27
Hub		C.P. #28
Hub		C.P. #26
Hub	27+29.79	C.P. #25
Hub	23+69.23	C.P. #24
Hub	19+26.63	C.P. #20
B.M. Brass Plg. on Pav. over – NW Laurel & Park Blvd.		
– Ld & Disk	14+35.21	C.P. #19
Ld & Disk	10+00	C.P. #18
Ld. & Disk	0+00	C.P. #13

Bench Marks
"A" Line - Balboa Park
Topog. Control

Cont p-6 →

T.P.	4.23	268.74	5.01	263.81
T.P.	8.25	268.82	1.38	260.57
T.P.	8.29	261.95	5.74	253.66
T.P.	8.16	259.40	3.26	251.24
			3.13	251.37
T.P.	11.06	254.50	0.39	243.44
			7.13	236.70
T.P.	13.13	243.83	0.39	230.70
T.P.	12.70	231.09	0.04	218.39
T.P.	13.16	218.43	0.42	205.27
T.P.	12.16	205.69	0.18	193.53
T.P.	12.62	193.71	3.60	181.09
T.P.	12.39	184.69	0.39	172.30
T.P.	13.07	172.69	0.09	159.62
T.P.	12.80	159.71	11.17	146.91
T.P.	0.12	158.08	12.17	157.96
T.P.	0.40	170.13	12.72	169.73
T.P.	2.29	182.45	12.52	180.16
Side Shot			10.7	191.61
T.P.	0.09	192.68	12.68	192.59
T.P.	2.61	205.27	12.58	202.66
			5.30	209.94
		215.24		

π from P. 2

on Pav. over Ld & Disk	46+22.01	CP #12
Ld & Disk	42+13.61	CP #9
on Pav. over Ld & Disk	38+98.95	CP #8
on Pav. over Ld & Disk	36+09.40 = Base Line	CP #7a
Hub	37+43.19	CP #7
Ld. Plg. & Disk	33+59.78	CP #6
Hub	30+30.41	CP #5
Hub	26+67.10	CP #4
Hub	24+43.10	CP #3
Hub	22+70.23	CP #2
Conc. Mon.	20+27.20	CP #1

Walker
Hendricks
Backer
Johnson
12-29-47

~ Bench Marks ~

"C" Line Topog. Control

Balboa Park

0.03

209.94

Check	Mon		10.30	209.97
T.P.	7.73	220.27	11.98	212.54
T.P.	1.16	224.52	12.25	223.36
			7.28	228.33
T.P.	2.00	235.61	11.20	233.61
T.P.	0.72	244.81	8.73	244.09
			11.36	241.46
T.P.	2.73	252.82	3.99	250.09
			5.76	248.32
T.P.	1.41	254.08	10.87	252.67
			7.45	256.09
			6.94	256.60
T.P.	0.54	263.54	12.62	263.00
T.P.	0.52	275.62	7.03	275.10
T.P.	1.39	282.13	6.49	280.74
T.P.	4.06	287.23	4.27	283.17
			4.58	282.86
T.P.	12.50	287.44	1.66	274.94
T.P.	9.13	276.60	1.27	267.47
			7.02	261.72

268.74 π from P-5

Mon	20+27.20	CP #1 P-5
Hub	41+81.81	CP #34
Hub	38+10.68	CP #33
Hub	35+98.03	CP #32
Spike	32+42.39	CP #30
Hub		CP #31
Hub	29+34.60	CP #27
Hub		CP #28
Hub		CP #26
Hub	27+29.79	CP #25
Hub	23+69.23	CP #24
Hub	19+26.63	CP #20
Brass Plg. NW. Laurel & Park Blvd. on Pav. over Ld & Disk	14+35.21	CP #19
~~on Pav over~~ Ld & Disk	10+00	CP #18
Ld & Disk	0+00	CP #13

~ Bench Marks ~
"D" Line

				0.01 / 260.57 P-5
T.P.			5.10	260.58
T.P.	6.75	265.68	9.67	258.93
T.P.	5.70	268.60	0.36	262.90
T.P.	12.80	263.26	0.07	250.46
T.P.	12.88	250.53	0.13	237.65
T.P.	12.64	237.78	3.89	225.14
T.P.	7.47	229.03	3.34	221.56
T.P.	12.82	224.90	1.63	212.08
T.P.	7.42	213.71	3.83	206.29
T.P.	10.59	210.12	3.48	199.53
T.P.	10.15	203.01	3.79	192.86
T.P.	12.29	196.65	2.20	184.36
T.P.	10.54	186.56	1.59	176.02
T.P.	7.17	177.61	0.05	170.44
T.P.	12.34	170.49	0.10	158.15
	11.34	158.25		146.91

	CP #3 P-5
11+87.66	CP #38
11+07.12	CP #37
9+89.85	CP #36
8+24	CP #35
5+87.35	CP #34a
2+79.37	CP #32a
	CP #33a
Hub	CP #3 P-5

Walker Hendricks Backes Johnson 12-29-47

Bench Marks - "E" Line

Topog. Control Balboa Park

				280.74
Check			3.79	280.70
	9.16	284.49	1.45	275.33
T.P.	11.49	276.78	4.82	265.29
T.P.	2.26	270.11	9.63	267.85
T.P.	1.20	277.48	2.30	276.28
T.P.	7.09	278.58	0.91	271.49
T.P.	10.59	272.40	7.16	261.81
T.P.	9.39	268.97	0.13	259.58
T.P.	12.67	259.71	0.23	247.04
T.P.	12.74	247.27	1.57	234.53
T.P.	3.85	236.10	1.92	232.25
T.P.	12.65	234.17	0.38	221.52
T.P.	11.83	221.90	1.41	210.07
T.P.	11.71	211.48	1.39	199.77
	8.30	201.16		192.86

Hub	19+26.63	C.P. #20 P-4
Id Pkg	13+21.32	C.P. #22
	10+60.03	C.P. #43
	9+15.79	C.P. #42
	7+90.41	C.P. #41
	5+59.82	C.P. #40
	3+42.63	C.P. #39
	~~3+42.69~~	~~C.P. #39~~
		C.P. #34-A P-7

Walther
Hendricks
Becker
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Bench Marks - "B" Line
Balboa Park Topog. Control

Cont p. 10

T.P.	2.46	284.81	2.31	282.35
			5.42	279.24
T.P.	6.75	284.66	3.89	277.91
T.P.	6.07	281.80	3.20	275.73
T.P.	6.54	278.93	2.62	272.39
T.P.	7.65	275.01	2.91	267.36
~~T.P.~~			5.54	264.73
T.P.	5.05	270.27	6.11	265.22
T.P.	5.94	271.33	5.46	265.39
T.P.	3.80	270.85	6.37	267.05
T.P.	8.72	273.42	4.72	264.70
T.P.	4.84	269.42	4.34	264.58
T.P.	10.60	268.92	6.49	258.32
	3.09	264.81		261.72

Ld + Disk	15+67.46	CP # 44
Hub	13+38.13	CP # 89
Hub	12+70.81	CP # 88
Hub	11+87.70	CP # 87
Hub	10+96.85	CP # 86
Hub	9+78.22	CP # 85
Hub	9+15.33	CP # 84
Hub	8+26.51	CP # 83
Hub	6+97.01	CP # 82
Hub	5+77.90	CP # 81
on Pav. over Ld + Disk	4+21.73	CP # 17
on Pav. over Ld + Disk	2+08.43	CP # 16
Ld + Disk	0+00	CP # 14
B.M. Ld + Disk		CP # 13

Walker
Hendricks
Becker
Johnson
12-36-47

Bench Marks - "F" Line
Balboa Park Topog. Control

T.P			15.8	254.2	C.P # 47-C
	5.30	270.00		264.70	C P # 47
				0.01	
				261.81	-D-8
Check			10.22	261.80	
					C.P # 41
			7.32	264.70	
				8+61.32	C.P # 47
T.P	0.30	272.02	7.80	271.72	
Hub				8+61.32	~~C P # 47~~
			4.17	275.35	
Ld + Disk				5+58.75	C P # 46
			3.98	275.54	
Ld + Disk				5+44.12	C P # 45
				274.94	=D-6
Check	4.58	279.52	9.89	274.92	
				"F" Line	
Ld + Disk				4+40.12	C P # 18 = 10+00 "E" Line D-6
		284.81			

Walker
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Decker
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Bench Marks - "G" Line
Balboa Park Topog. Control

				S.64 251.93 - BM.
Chk			1.08	251.97
T.P.	7.89	253.05	5.20	245.16
T.P.	5.17	250.36	5.18	245.19
			2.58	247.79
T.P.	2.81	250.37	9.97	247.56
T.P.	2.04	257.53	6.94	255.49
	4.11	262.43		258.32

NW Brass Plg. Laurel & 6th		
Chisled Cross	11+09.87	C.P.# 53
Ld & Disk	7+09.87	C.P.# 52
Nail	6+93.87	C.P.# 51
Ld & Disk	2+67.44	C.P.# 15
B.M. Ld & Disk		C.P.# 14. P-9

Walker
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Bench Marks - "H" Line
Balboa Park - Topog. Control

T.P.	-0.05	198.73	12.57	198.78
T.P.	0.46	211.35	12.10	210.89
T.P.	0.35	222.99	6.80	222.64
T.P.	7.64	229.44	6.78	221.80
T.P.	3.80	228.58	5.08	224.78
T.P.	7.84	229.86	3.03	222.02
T.P.	8.53	225.05	11.1	216.52
T.P.	13.12	217.63	5.03	204.51
T.P.	5.51	209.54	0.99	204.03
T.P.	13.24	205.02	6.12	191.78
T.P.	12.47	197.90	2.69	185.43
T.P.	12.69	188.12	0.13	175.43
T.P.	12.80	175.56	8.23	162.76
T.P.	0.09	170.99	12.39	170.90
T.P.	0.49	183.29	12.58	182.80
T.P.	0.92	125.38	11.01	194.46
T.P.	1.48	205.47	7.12	203.99
T.P.	2.43	211.11	12.92	208.68
T.P.	0.71	221.60	5.73	220.89
T.P.	3.63	226.62	8.57	222.99
T.P.	0.93	231.56	8.73	230.63
T.P.	3.98	239.36	8.99	235.38
	0.93	244.37		243.44

Hub	31+07.92	C.P. #69
Hub	30+39.24	C.P. #68
Ld & Disk	28+64.54	C.P. #67
Ld & Disk	25+97.42	C.P. #66
Chisled Cross in Conc. Walk	23+51.07	C.P. #65
Hub	22+24.80	C.P. #64
~~Paving~~ ~~over~~ Ld & Disk	19+33.02	C.P. #63
Hub	17+81.53	C.P. #62a
Hub	16+29.50	C.P. #62
on Ld & Disk		C.P. #61
~~over~~ Paving ~~Ld & Disk~~		~~C.P. #61~~
Hub		C.P. #60
Ld Pkg. Pav.	13+78.33	C.P. #59
~~on Pav over Ld & Disk~~	~~13+78.33~~	~~C.P. #59~~
Ld & Disk	10+51.75	C.P. #58
on Paving over Ld & Disk	8+49.61	C.P. #56
Hub	4+64.21	C.P. #54
Hub	2+00.10 = 7+11.6 "K2" Line	C.P. #100
B.M. Ld & Disk		C.P. #6

~ Bench Marks ~

"H" Line Cont. from P. 12

				0.12
				264.58
Chk			1.69	264.70
T.P.	12.98	266.39	1.09	253.41
T.P.	8.77	254.50	1.42	245.73
T.P.	13.10	247.15	1.20	234.05
T.P.	13.16	235.25	0.84	222.09
T.P.	12.98	222.93	0.20	209.95
T.P.	12.79	210.05	12.8	197.26
T.P.	12.12	198.54	1.06	186.42
T.P.	10.15	187.48	1.88	177.33
T.P.	8.59	179.21	3.28	170.62
T.P.	10.63	173.90	1.51	163.27
T.P.	11.65	164.78	7.41	153.13
T.P.	0.28	160.54	10.30	160.26
T.P.	0.27	170.56	3.39	170.29
T.P.	7.79	173.68	2.62	165.89
T.P.	11.56	168.51	0.25	156.95
T.P.	11.99	157.20	5.87	145.21
T.P.	4.63	151.08	0.31	146.45
T.P.	0.78	146.76	2.62	145.98
T.P.	2.77	155.60	11.36	152.83
T.P.	0.28	164.19	12.08	163.91
T.P.	0.57	175.99	12.99	175.42
T.P.	0.18	188.41	10.50	188.23
		198.73		
		π from P. 12		

Rev.

over hd & Disk		CP # 16 Page 9
Hub	48+20.10	CP # 79
Hub	46+15.75	C.P. 78
Hub	44+87.21	CP # 77
Hub	42+68.94	C.P. # 76
	~~42+68.94~~	~~C.P. # 76~~
Hub	40+29.48	C.P. # 75
Hub	38+33.48	C.P. # 74
Hub	35+69.92	CP # 73
Hub	35+32.39	C.P. # 72
Hub	33+71.31	C.P. # 71
Hub	31+64.58	CP # 70

Walker
Hendricks
Becker
Johnson
12-31-97

Bench Marks - "L" Line

Balboa Park Topog. Control

T.P.	12.42	180.35	4.89	167.93
TP	11.92	172.82	0.14	160.90
T.P.	11.67	161.04	3.70	149.37
T.P.	6.93	153.07	0.16	146.14
TP	11.13	146.30	11.97	135.17
T.P.	0.70	147.14	3.86	146.44 (14"Line 146.45)
T.P.	1.28	150.30	11.36	149.02
TP	1.06	160.38	12.74	159.32
T.P.	0.12	172.06	13.20	171.94
T.P.	1.62	185.14	11.98	183.52
T.P.	1.12	195.50	9.25	194.38
T.P.	1.77	203.63	12.74	201.86
T.P.	0.20	214.60	11.62	214.40
T.P.	0.09	226.02	8.27	225.93
			5.41	228.79
T.P.	0.94	234.20	10.52	233.26
T.P.	1.20	243.78	6.69	242.58
T.P.	3.19	249.27	12.47	246.08
T.P.	2.12	258.55	7.10	256.43
			6.14	257.39
T.P.	6.49	263.53	6.46	257.04
			11.70	251.80
	2.93	263.50		260.57

Hub	17+12.88	C.P. # 111
Hub	15+06.34	CP # 110
Hub	13+22.44	CP # 109
Hub	12+43.28	CP # 72
Hub	10+37.17	C.P. # 108
Hub	8+99.40	CP # 106
Hub		CP # 107
Hub	7+51.66	CP # 105
Hub	6+77.38	CP # 104
Hub	4+53.10	CP # 103
Ld + Disk	2+30.48	CP # 102
Hub	1+18.91	CP # 101
5/8" Ld + Disk	42+13.61	"A" Line CP # 9 P-5

Bench Marks - "L" Line

Cont. from P- 14

				+0.01 256.43
Chk			3.15	256.44
			8.92	250.67
T.P.	13.07	259.59	2.50	246.52
T.P	10.89	249.02	1.55	238.13
T.P.	11.73	239.68	0.26	227.95
T.P.	12.69	228.21	0.81	215.52
T.P.	11.09	216.33	4.08	205.24
T.P.	10.63	209.32	0.74	198.69
T.P.	12.94	199.43	1.99	186.49
T.P.	9.51	188.48	1.38	178.97
		180.35 *		

* from P. 14

Hub	23+14.80	C.P.# 103 Page 14
Hub	22+54.02	C.P.# 114
Hub	21+52.26	C.P.# 113
Hub	18+91.44	C.P. # 112.

on foot by Creek

Welker
Hendricks
Becker
Johnson

Bench Marks "J" Line
Balboa Park - Topog. Control

				0.02
				253.66
Chk			2.31	253.64
T.P.	9.66	255.95	2.96	246.29
			6.08	243.17
T.P.	10.65	249.25	3.66	238.60
T.P.	6.42	242.26	2.37	235.84
	7.58	238.21		230.63

on Post over Ld + Disk	11+33.27	C.P. # 8 - P-5
Ld + Disk	8+31.89	C.P. # 92
Hub in Court Yard		C.P. # 93
Ld + Disk	4+66.51	C.P. # 91
Ld + Disk	3+13.13	C.P. # 90
BM	0+00	C.P. # 54 P-12

Walker
Hendricks
Becker
Johnson
12-31-97

Bench Marks - "K" Line
Balboa Park - Topog. Control

Cont. P-18

T.P.	6.72	225.67	0.78	218.95
T.P.	12.78	219.73	0.01	206.95
T.P.	13.12	206.96	11.81	193.84
T.P.	0.53	205.65	9.52	205.12
T.P.	2.09	214.64	12.54	212.57
T.P.	0.37	225.11	9.68	224.74
	3.79	234.42		230.63

	7+56.56	C.P. # 96
	6+02.18	C.P. # 95
	~~6+02.18~~	~~C.P. # 95~~
Ld. & Disk	3+49.77	C.P. # 94
B.M. Hub.	0+00	C.P. # 54 - P. 16

Walker
Hendricks
Decker
Johnson
12-31-97

Bench Marks - "K2" Line
Balboa Park - Topog. Control

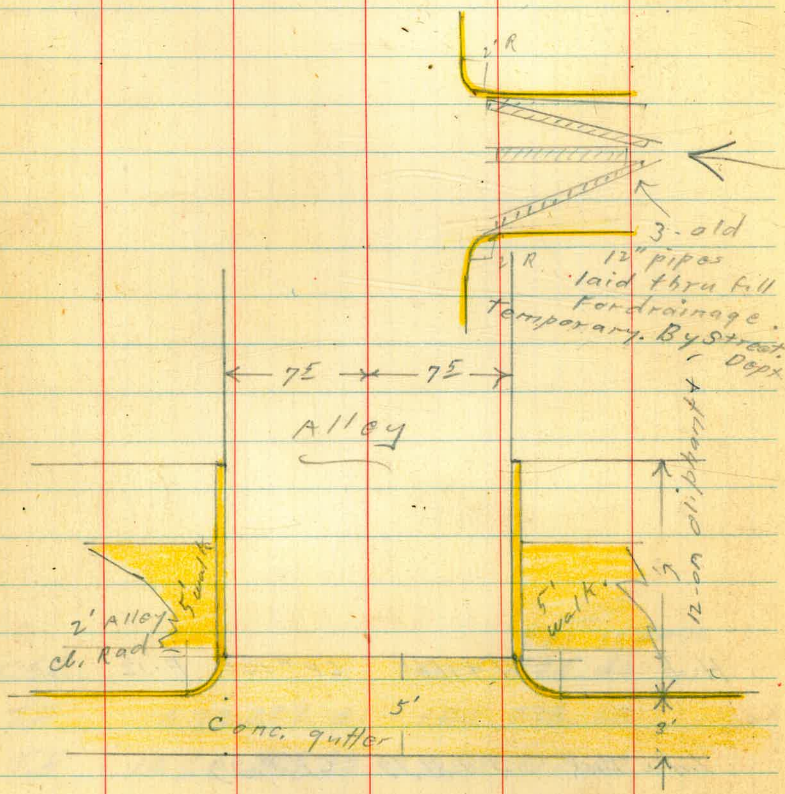
				0.02			
				235.38 → P-12			
Chk.			2.01	235.40	Hub	7+11.60	CP #100 P-12
T.P.	8.73	237.41	1.20	228.68			
T.P.	12.66	229.88	12.80	217.22	Ld & Disk	4+81.79	C.P. #99
T.P.	1.09	230.02	3.95	228.93	Hub	3+67.61	CP #98
T.P.	9.73	232.88	2.52	223.15	Hub	1+79.17	C.P. #97
		225.67					
		π from P-17					

X-Sec
Alleys Blk. 15 Pt. Loma Hgts.

5-26-48
W.O. 25001

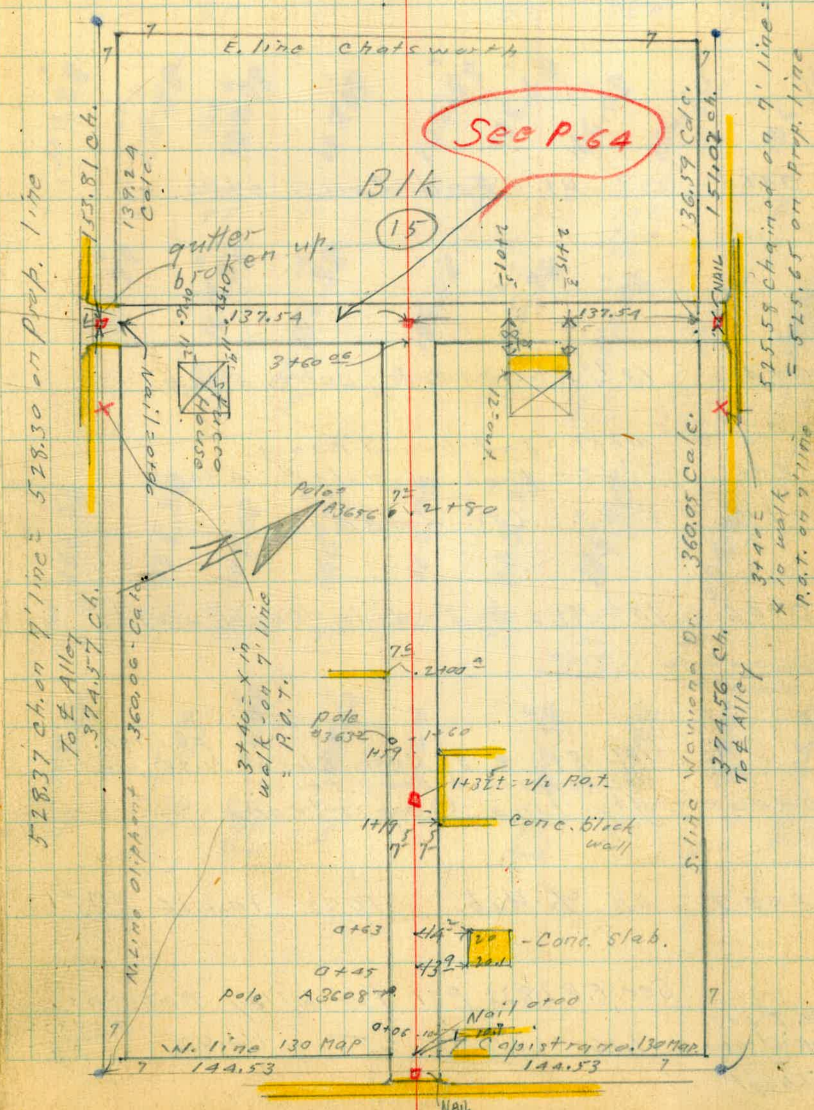
Sommermeyer
McCoy
W Moore
Sherman.

● = Fd. 7' L+T.
□ : Se ½ Hub + disk.



Detail of conc. gutter
at alleys.

Plotting checked
McClaren 7/28/49
Profile no. 3298



Alley Blk. 15 Rt. L. Hgts.
Ely. & Wly. stem of "T"

T.P. Rot Hub ℄ 1732.5 t	3.00	110.97	8.01	107.97
0+70				
0+63	Rt. = End Conc. slab.			
0+45	13.9 Rt. = start conc. slab.			
0+40	10.3 Rt. = End board Fence.			
	7.3 Lt. = back of pole # A3608			
0+12	6.4 Lt. = Ctr. deadman			
0+06	10.3 Rt. = ℄ 3' Wide Conc. walk.			
	10.7 Rt. = ℄ 8" Conc. Block 5.1 High N. & S. wall			
0+00	10.3 Rt. = start board. Fence. = Wly. line Capistrano			
0+07	on ½ Hub.	11.82	104.16	BM #1

See F.B. 1822 P31 for alley Returns.

S.W. 7' Lt. Capistrano	1.16	115.98	—	114.82

FB 1822 / 28

Oliphant

℄

109.44	108.88	107.38	106.98	107.28	106.98	103.78		
6.5 / 25	7.1 / 7½	8.6 / 5	9.0	8.7 / 7½	9.9 / 20	12.2 / 30		
109.28	108.98	107.98	107.08	105.88	106.68	106.08	106.10	106.11
6.7 / 25	7.0 / 10	8.0 / 7½	8.9 / 5	10.1	9.3 / 7½	9.9 / 14	9.88 / 14½ End slab	9.87 / 34½ Back of slab
109.78	107.58	106.38	106.08	105.98	106.08	106.16	106.10	
6.2 / 25	8.4 / 7½	9.6 / 5	9.9	10.0 / 7½	9.9 / 13.9 Grd	9.82 / 13.9 start slab	9.88 / 34 Back of slab	
108.88	108.38	107.08	105.78	105.48	105.38	105.45	104.98	
7.1 / 20	7.6 / 11	8.9 / 7½	10.2 / 5	10.5	10.6 / 7½	10.53 / 10.3 walk + Grd	11.0 / 30 Grd. + grade of walk	
117.78	106.67	106.48	105.58	105.18	104.58	104.60	104.58	103.98
8.2 / 15	9.34 / 7½ cl. End	9.5 / 7½ Grd	10.4 / 5	10.8	11.4 / 7½ Grd.	11.38 / 7½ cl. End	11.4 / 10.7 Grd	12.0 / 10.7 Base wall

115.98

Alley. Blk. 15. Pt. Loma Hgts.

7^{1} Lt. = start board fence.

1+60 7^{2} Lt. = Pole # A3632.

8^{0} Rt. = End conc. block wall

1+59. 7^{7} Rt. = End footing for block wall

8' Rt. = line of wall.
Footing for block wall.
1+37 7^{6} Rt. = break in grade of conc.

1+29 17^{5} Lt. = Sing. Gar under Const. ?

to be about 6' High.
1+19 8^{0} Rt. = start conc. block wall under const.
7^{6} Rt. = start footing for wall.

1+05

110.97

℄

Sta.								
1+60	102.67 8.3/45	103.57 7.4/7.5	104.87 6.1/7	105.07 5.9	105.87 5.1/7.5	106.17 4.8/25		
1+59	103.17 7.8/45	104.77 6.2/7.5	105.17 5.8	106.07 4.9/7.5	105.37 5.6/7.7 Base footing			
1+37	105.17 5.8/50	107.37 3.6/25	107.67 3.3/7.5	107.77 3.2	107.57 3.4/7.5	106.97 4.0/7.6 Base footing	107.57 3.4/8 Grd	107.67 3.3/50
1+29	108.07 2.9/17.5 Aprox Future floor							
1+19	107.87 3.1/7.6 Grd	107.27 3.7/7.6 Base Footing	107.87 3.1/8 Grd					
1+05	107.27 3.7/50	108.27 2.7/7.5	107.67 3.3	107.87 3.1/7.5	108.27 2.7/20	105.37 5.6/75		

110.97

2+41					
2+40	{Also = start board rail fence {7± Lt. = End picket fence.				
2+39					
T.P.	0.40	98.58	12.79	98.18	
2+01					
2+00±	= ℄ 6" wide Conc. N.+S. Wall.				
2+00	{Also 7± Lt. = Start picket fence. {7± Lt. = End board fence.				
1+80	7' Lt. = line of fence				

110.97

℄

96.68 / 94.28 / 94.38 / 94.28 / 95.38 / 95.0 (~~94.98~~)
1.9/50 — 4.3/75 — 4.2 — 4.3/5 — 3.2/75 — 3.6/40

97.78 / 96.0 (~~95.98~~) / 94.58 / 94.68 / 95.58 / 95.38
0.8/50 — 2.6/75 — 4.0/5 — 3.9 — 3.0/75 — 3.2/40

98.58

98.67 / 97.17 / 99.17 / 98.37 / 99.07 / 100.37 / 100.37
12.3/50 — 13.8/75 — 11.8/5 — 11.6 — 11.9/75 — 10.6/75 — 10.6/25

101.37 / 101.37 / 96.17 / 97.77
9.6/50 Top wall — 9.6/75 Top wall — 14.8/75 Base wall — 13.2/75 Grd.

100.07 / 100.67 / 99.47 / 99.47 / 99.07 / 100.47 / 100.57
10.9/50 — 10.3/75 — 11.5/4 — 11.5 — 11.9/75 — 10.5/74 — 10.4/25

101.17 / 102.0 (~~101.97~~) / 101.37 / 102.57 / 103.77 / 104.0 (~~103.97~~)
9.8/50 — 9.0/75 — 9.6 — 8.4/75 — 7.2/12 — 7.0/25

110.97

2+2-3+67.06
℄ Alleys.
T.P.

Alley Blk 15 Pt. L. Hgts.

	12.53	101.54	9.57	89.01

3+60.06 = E. line of N. + S. alley Blk 15. See page 19

3+59.3 5.8 Rt. Lt. = End picket fence.

3+40

3+20 6.8 Rt. = start picket fence

3+10

3+08 6.7 Lt. = Ctr. deadman

2+81

2+80 7.5 Lt. = End board Rail Fence
7.5 Lt. = pole # A 3656

2+75

2+60

2+52

98.58

℄

90.68
7.9
7.5

90.38
8.2

89.18
9.4
7.5

91.28
7.3
30

91.38 (90.4)
8.2
7.5

90.08
8.5

89.08
9.5
7.5

88.68
9.9
45

91.88
6.7
30

90.08
8.5
7.5

89.38
9.2

89.48
9.1
7.5

88.58
10.0
45

93.68
4.9
45

90.78
7.8
7.5

~~89.78~~ 90.0
8.6

89.68
8.9
7.5

88.88
9.7
45

94.78
3.8
45

91.38
7.2
7.5

90.58
8.0

89.78
8.8
7.5

91.08
8.5
15

92.48
6.1
35

92.48
6.1
45

92.88
5.7
7.5

91.88
6.7

91.78
6.8
7.5

94.08
4.5
15

93.88
4.7
30

93.08
5.5
7.5

92.78
5.8

93.28
5.3
4

95.28
3.3
7.5

94.28
4.3
30

98.58

Also see P. 64

0+00 = Nly. line Oliphant.

0-01 8.5 Lt. = start. 16" wide hedge.

0-07

0-08 7.5 Lt. & Rt. = curb E.C.s.

0-10 = Nly. Cb. line Oliphant

0-10½ = Nly Gutter Oliphant

0+00 = ℄ N. 45. Alley Nly line Oliphant

101.54

96.87 — 4.67 / 7.5 Cb. End.

97.14 — 4.4 / 7.5 Ord.

97.04 — 4.5 / 5

94.34 — 7.2 / 2

94.34 — 7.2

94.34 — 7.2 / 2

98.04 — 3.5 / 5

97.94 — 3.6 / 7.5 Ord

96.91 — 4.63 / 7.5 Cb. End.

97.04 — 4.5 / 7.5 Ord.

96.64 — 4.9

97.64 — 3.9 / 7.5 Ord.

96.66 — 4.88 / 7.5 Cb.

96.54 — 5.0 / 7.5 Ord.

96.53 — 5.01 / Hub

96.80 — 4.74 / 7.5 Ord. + Cb.

96.65 — 4.89 / 7.5 Cb. E.C.

95.64 — 5.9 / 7.5 Ord.

95.94 — 5.6

95.74 — 5.8 / 7.5 Ord.

96.79 — 4.75 / 7.5 Cb. E.C.

97.35 — 4.19 / 100

96.80 — 4.74 / 50

96.61 — 4.93 / 95 Cb. B.C.

96.79 — 4.75 / 95 Cb. B.C.

97.48 — 4.06 / 50

96.39 — 5.15 / 100

95.82 — 5.72 / 50

95.62 — 5.92 / 95

95.61 — 5.93 / 75

95.70 — 5.84

95.73 — 5.81 / 75

95.74 — 5.80 / 95

96.51 — 5.03 / 50

101.54

1+18 E	6 E Lt. = End wire fence.
1+00	
0+75	
0+52	11 A Rt. = End (N.W. cor.) stucco house
0+40	6 E Lt. = start wire fence
0+39	7 E Lt. = pole # P.A. 1907
0+38	7 E Lt. end 16" wide hedge
0+26	11 E Rt. = S.W. Cor. Stucco House
0+14	

101.54

.2 92.24	.4 91.44	.1 91.14	.3 90.34	.5 89.54	.2 89.24	.8 90.84	.3 90.34
9.3 / 25	10.1 / 7 E	10.4 / 1	11.2	12.0 / 1	12.3 / 5	10.7 / 7 E	11.2 / 25
.8 92.84	.8 91.84	.1 91.74	.8 89.84	.8 89.84	.9 91.94	.7 91.74	.6 91.64
8.7 / 25	9.7 / 7 E	9.8	11.7 / 1	11.7 / 4	9.6 / 5	9.8 / 7 E	9.9 / 25
.2 94.24	.8 92.84	.2 93.24	.8 91.84	.9 90.94	.2 92.24	.9 92.94	.6 92.64
7.3 / 25	8.7 / 7 E	8.3	10.7 / 1	10.6 / 4	9.3 / 5	8.6 / 7 E	8.9 / 25
.7 94.74	.6 93.64	.7 93.74	.0 92.04	.4 93.44	.2 94.24	.0 94.04	
6.8 / 25	7.9 / 7 E	7.8 / 2	9.5	8.1 / 2	7.3 / 7 E	7.5 / 11.4 At house	
.5 95.54	.6 95.64	.4 93.44	.4 93.44	.7 93.74	.5 95.54	.9 95.94	
6.0 / 7 E	5.9 / 3	8.1 / 1	8.1	7.8 / 3	6.0 / 7 E	5.6 / 11 E At house	
.0 96.04	.9 95.94	.0 96.04	.0 96.04	.0 96.04	.1 98.14	.5 96.54	.8 95.84
5.5 / 25	5.6 / 7 E	5.5 / 1	7.5	7.5 / 3	3.4 / 7 E	5.0 / 15	5.7 / 25

101.54

1+82 Cont.

IN Mortar. Not Much of a Wall

1+82 8[C] Rt. = start conc. block wall set

1+70

1+55 8[L] = End ~~3' wide Cypress hedge~~
6[L] Lt. = pole # PA. 1925

1+45[09] = Nly. line Alley to east.

1+43[3] 8[L] Rt. = start picket fence. ok

1+40 ~~8[C] Lt. = Start 2[5] Cypress hedge runs N+S,~~ out

TIP. 2.33 91.34 12.53 89.01

1+30[09] = Sly. line Alley to east.

1+20

101.54

							86.84		87.24
							4.5 / 8[C] Base wall		4.1 / 8[C] Top wall
.3 87.34	.5 87.54	.5 87.54	.6 87.64	.8 86.84		.1 87.14	.8 87.84	.8 87.84	.2 87.24
4.0 / 30	3.8 / 7[5]	3.8 / 6	4.7 / 4	4.5		4.2 / 2	3.5 / 4	3.5 / 7[5]	4.1 / 8[C] Curb
.2 88.24	.1 88.14	.7 87.74	.5 87.54	.3 87.34		.2 88.24	.5 88.54	.6 88.64	
3.1 / 30	3.2 / 7[5]	3.6 / 4	3.8	4.0 / 3		3.1 / 5	2.8 / 7[5]	2.7 / 30	
.9 90.94	.9 90.94	.0 90.04	.1 89.14	.1 88.14		.8 88.84	.2 89.24		
0.4 / 25	1.4 / 7[5]	1.3 / 4	2.2 / 1	3.2		1.5 / 4	2.1 / 7[5]		

91.34

.7 90.74	.1 90.14	.5 90.54	.9 89.94	.1 89.14		.9 88.94	.6 90.64		
10.8 / 25	11.4 / 7[5]	11.0 / 3	11.6	12.4 / 1		12.6 / 5	10.9 / 7[5]		
.8 90.64	.5 90.54	.9 90.94	.2 90.24	.5 89.54		.2 89.24	.9 90.94		
10.7 / 25	11.0 / 7[5]	10.6 / 1	11.3	12.0 / 1		12.3 / 5	10.6 / 7[5]		

101.54

Alley B/K 15 Pt. Loma Hgts

2+25	Cont.
2+25	
2+15.3	8.7 Rt. = End. Conc. Apron.
2+01.5	8.8 Rt. = start. Conc. Apron to Gar.
	8.9 Rt. = End pick et fence
2+01	Cont.
2+01	8.8 Rt. = End Conc. block wall

91.34

4

.5 85.57	.1 85.14	.2 86.24							
5.8 / 30	6.2 / 12	5.1 / 10							
.3 85.34	.3 84.37	.3 84.34	.1 85.14	.7 84.14	.9 84.94		.3 85.34		
6.0 / 7.5	7.0 / 7	7.0 / 6	6.2 / 5	6.6	6.4 / 7.5		6.0 / 15		
					85.87		86.15		
					5.17 / 8.7 Apron		4.89 / 12 Gar Floor		
					86.12		86.49		
					5.22 / 8.5 Apron		4.85 / 12 Gar Floor		
					86.14	87.04			
					5.1 / 8.8 Base wall	4.3 / 8.8 top wall			
.8 85.84	.0 86.04	.0 87.04	.7 85.14	.7 85.74	.7 85.74	.1 86.14	.2 86.24	.2 86.24	
5.5 / 30	5.3 / 12	4.3 / 7.5	5.6 / 6	5.6	5.6 / 1	5.2 / 2	5.1 / 7.5	5.1 / 8.8 Grd	

91.34

Alleys Blk. 15 Pt. Loma Hgts.

+71 Cont.

27' Lt. = ℄ Gar. doors North Entrance

2+71 16± Lt. = N.E. Cor. double Gar.

T.P. 6.76 88.11 9.99 81.35

Faces north onto Wawona Dr.

2+51 17' Lt. = S.E. Cor Double garage.

2+50 Cont.

2+50

2+45

91.34

℄

83.03 (5.08 / 27 Conc. Floor)

82.91 (5.2 / 16.5 Grd. at Gar.)

.2 84.21	.0 83.01	.9 81.91	82.01	.1 82.11	.6 82.61	.5 83.51
3.9 / 12	5.1 / 75	6.2 / 4	6.1	6.0 / 3	5.5 / 6	4.6 / 7 5

88.11

83.04 (8.3 / 30)

82.94 (8.4 / 17)

.1 84.14	.6 83.64	.4 83.44	.8 82.84	.4 83.44	.0 83.04	.0 84.04
7.12 / 14	7.7 / 75	7.9 / 5	8.5 / 3	7.9	8.3 / 5	7.3 / 75

.2 85.24	.3 84.34	.2 84.24	.8 83.44	.7 83.74	.2 83.24	.1 84.14
6.1 / 30	7.0 / 75	7.1 / 5	7.9 / 3	7.6	8.1 / 5	7.2 / 75

.2 84.24

.4 84.44

6.9 / 15

91.34

should be S.W.

El 86.49

This plug shown as N.W. B.P. in bench book

S.W. B.P. Wawona & Chastworth		1.80	86.31	See FB 1822 P 13 86.33

3+05 = ℄ Wawona

2+85 = Sly gutter Wawona

2+85.05 = Sly. Cl. line Wawona

also = So. Edge Conc. gutter.

2+83.08 { 7.45 Lt. / 7.42 Rt. } = Curb. B.C.

2+75.08 { 7.37 Rt = start cl. / 7.40 Lt. = ~~Rt~~ start curb } = Sly. line Wawona

88.11

81.81 / 6.3 / 50

81.11 / 7.0 / 20

81.91 / 6.2

83.11 / 5.0 / 25

85.11 / 3.0 / 50

81.65 / 6.46 / 50

81.17 / 6.94 / 32

81.32 / 6.79 / 95

81.41 / 6.70 / 75

81.54 / 6.57

81.55 / 6.56 / 75

81.59 / 6.52 / 95

82.52 / 5.59 / 25

84.54 / 3.57 / 50

82.61 / 5.50 / 50

82.12 Sd. 81.27 / 6.87 / 32 / Drive

82.26 / 5.85 / 95 / Cl. E.C.

6.[illegible]

82.62 / 5.49 / 95 / Cl. E.C.

83.50 / 4.61 / 25

85.51 / 2.60 / 50

82.32 / 5.79 / 7.45 / Cl. B.C

81.61 / 6.50 / 7.45 / C

81.78 / 6.33

81.87 / 6.24 / 7.42 / C

82.52 / 5.59 / 7.42 / Cl. B.C.

82.58 / 5.53 / 7.40 / Top Cl. end

81.91 / 6.2 / 7.4

82.01 / 6.1

82.31 / 5.8 / 7.3

82.58 / 5.53 / 7.37 / Top Cl. end

88.11

X-Section Everts
Felspar to Diamond

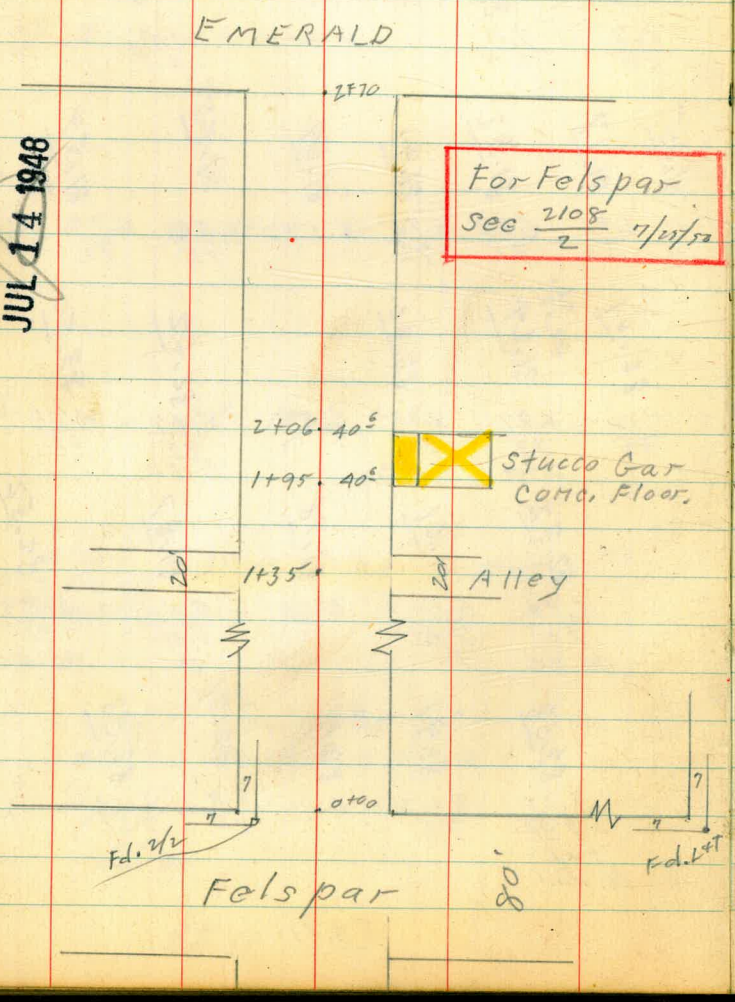
7-12-48

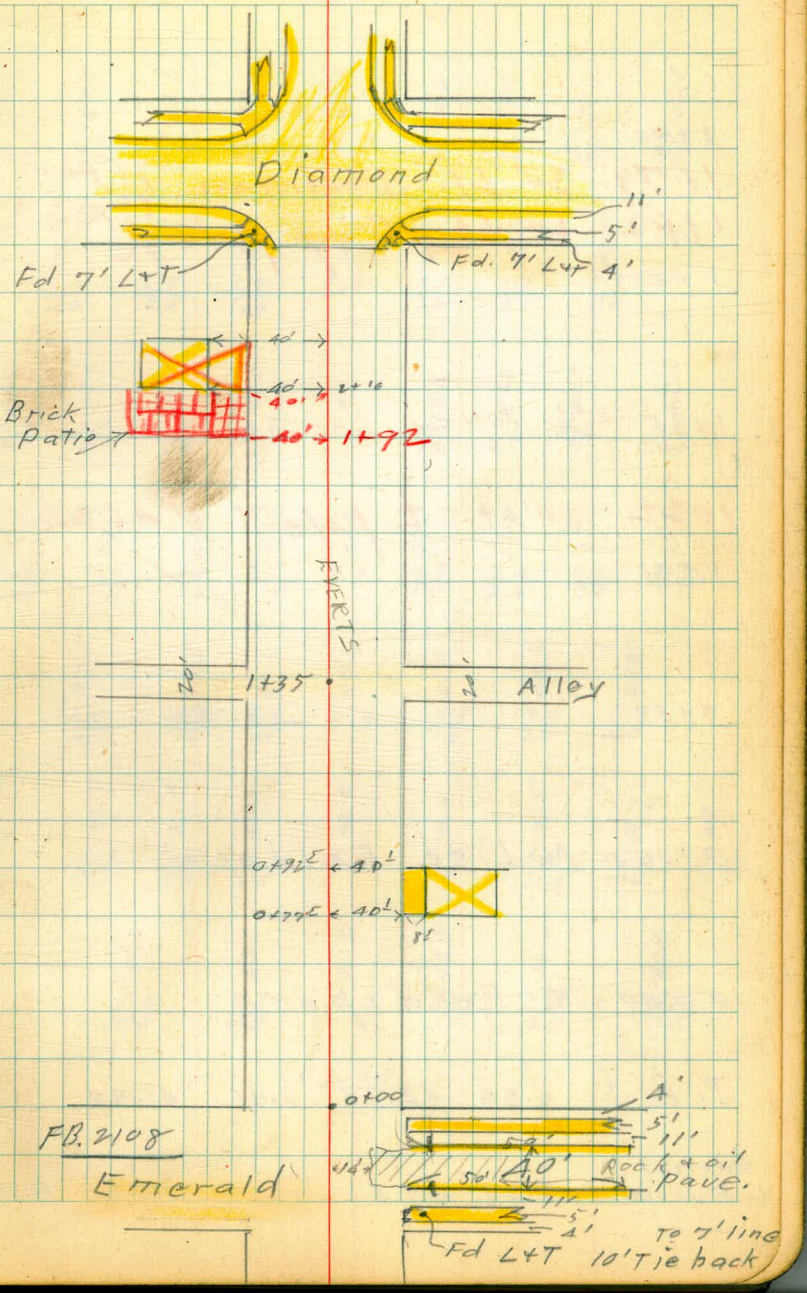
W.O. 25001

Sommermeyer
McCoy
Melton

F.B. 2108

Additional notes in red 7/24/50





Everts

1+90

1+79 20' Lt. = deadman } { par
1+62 20' Lt. = Guy pole } { pole # 4624

1+60

1+35 = ℄ Alley

1+22 20' Lt. = ℄ pole # P4624

1+00

0+50

0+00 = N. Line Feldspar

0-40 = ℄ Feldspar

T. R.	6.86	52.26	2.41	45.40	
Garnet + Everts	8.28	47.81	— —	39.53	N.W.B.P.

℄

50.2	49.8	50.0	49.1	49.9	49.2	50.8	50.7	51.8	
2.1/100	2.5/40	2.3/24	3.2/18	2.4	3.1/18	1.5/24	1.6/40	0.5/90	
	49.1	49.6	48.6	49.2	48.8	50.1	50.0		
	3.2/40	2.7/24	3.7/17	3.1.	3.5/20	2.2/25	2.3/40		
48.3	47.0	49.5	48.0	49.1	48.3	49.2	49.9	50.8	
4.0/100	3.3/40	3.3/20	4.3/16	3.2	4.0/18	3.1/23	2.4/40	1.5/100	
47.9	48.1	48.3	47.3	48.0	47.6	48.9	49.1	49.6	
4.4/75	4.2/40	4.0/18	5.0/15	4.3	4.7/18	3.4/24	3.2/40	2.7/75	
	47.3	47.5	46.6	47.1	46.8	48.3	48.4		
	5.0/40	4.8/18	5.7/15	5.2	5.5/18	4.0/22	3.9/40		
45.9	46.7	46.8	46.0	46.4	46.4	47.5	47.7	48.1	
6.4/75	5.6/40	5.5/20	6.3/15	5.9	5.9/18	4.8/24	4.6/40	4.2/75	
	44.7	45.2		46.0	45.9	46.6	47.8		
	7.6/100	7.1/40		6.3	6.4/15	5.7/40	4.5/100		

52.26

Everts

2+90 — 14' Rt. = start rock + oil pav.
= S. Gutter line Emerald

2+90 — 40' Rt. = start E.+W. conc. ch.
= S. Ch. line Emerald

2+79 — 40' Rt. = N.W. Cor. E.+W. 5' walk
(page 30)

2+74 — 40' Rt. = S.W. Cor. E.+W. 5' walk

2+70 = S. Line Emerald

2+30

T.P. N.W. Cor. Apron	9.17	60.68	0.75	51.51

2+06 — 40^{E} Rt. = End same
Sing. Car.

1+95 — 40^{E} Rt. = start Conc Apron to

52.26

4

52.7	52.8	52.8	52.6	52.2	52.5	52.8	53.2	
8.0	7.9	8.5	8.1	8.1	8.2	7.9	7.5	
40	22	18		14 Start pave	18 Pave	40 Pav	90	
				53.42	53.86			
				7.26	6.81			
				40 Top Ch.	90 Top Ch.			
					53.57			
					7.11			
					40 N.W. Cor. walk			
					53.62			
					7.06			
					S.W. Cor walk			
52.3	52.4	51.7	52.2	51.7	52.5	53.3		
8.4	8.3	9.0	8.5	9.0	8.2	7.4		
40	23	18		18	24	40		
51.4	51.5	50.30	50.8	50.3	51.6	51.8		
9.3	9.2	10.4	9.9	10.4	9.1	8.7		
40	22	18		20	24	40		
			60.68					
				51.50		51.69		
				0.76		0.57		
				40^{S} Apron		43 4 Car. floor		
				51.40		51.69		
				0.86		0.57		
				40^{S} Apron		43 4 Car. floor		

Everts

0+77.5 40' Rt. = start conc. Apron to double Gar.

0+50

=0+00

3+50 N. Line Emerald

3+46 40' Rt. = N. W. Cor. E. T W. walk.
(Page 30)

3+41 40' Rt. = S. W. Cor. E & W. 5' walk

3+30 = N. Ch. line Emerald

3+29.2 = N. Gutter line emerald

3+10 = ℄ Emerald

60.68

℄

56.89
3.79
40
Apron

57.24
3.44
48
Gar. floor

55.5 | 55.8 | 54.4 | 55.2 | 55.3 | 54.8 | 55.9 | 54.1
5.2 | 4.9 | 6.3 | 5.5 | 5.4 | 5.9 | 4.8 | 4.6
40 | 20 | 17 | | 12 | 18 | 21 | 40

54.3 | 54.5 | 53.4 | 54.00 | 53.8 | 54.8 | 54.9
6.4 | 6.2 | 7.3 | 6.7 | 6.9 | 5.9 | 5.8
40 | 22 | 18 | | 18 | 21 | 40

54.68
6.00
40
walk

54.62
6.06
40
walk

54.45
6.23
40
Top dr.

54.78
5.90
90
St.

52.7 | 53.2 | 53.6 | 53.1 | 53.6 | 53.7 | 53.5 | 53.8 | 54.1
8.0 | 7.5 | 7.1 | 7.6 | 7.1 | 7.0 | 7.2 | 6.9 | 6.6
90 | 40 | 20 | 18 | | 14 pave | 18 | 40 | 90

52.3 | 52.8 | 52.8 | 53.2 | 53.4 | 53.1 | 53.6 | 54.3 | 54.6
8.4 | 7.9 | 7.9 | 7.5 | 7.3 | 7.6 | 7.1 | 6.4 | 6.1
140 | 40 | 18 | | 14 pave | 18 | 40 | 90 | 140

60.68

Everts

Should be 2+25

2+25 40' Lt. = End Same

~~40' Lt.~~ =

2+10 { 40' Lt. = start Conc. Apron to double Gar.
40' Lt. = End brick Patio

2+00

1+92 40' Lt. = start brick Patio
6.25 65.75 1.18 59.50

1+50

1+35 = ℄ Alley

1+28 39' Lt. = pole (J.P.A # 1198)

1+00

0+92.5 40' Rt. = End double Gar. Conc. Apron to

60.68

℄

60.00
5.75
43'
Gar. floor

59.88
5.87
40'
Apron

59.96
5.79
43'
Gar. floor

59.77
5.98
40'
Apron

+ patio

59.8
3
40
Elev. patio

59.4 59.3 58.0 58.9 58.3 59.6 59.4
6.4 6.1 7.8 6.9 7.1 6.2 6.4
40 20 19 65.75 19 23 40

58.2 58.2 57.0 57.9 57.6 58.0 58.5
2.5 2.5 3.7 2.8 3.1 2.3 2.2
40 20 18 18 22 40

56.4 57.0 57.9 57.5 56.7 57.8 57.4 57.0 58.3 57.9 58.1
4.3 3.7 2.8 3.2 4.0 2.9 3.3 2.8 2.4 2.8 2.6
40 90 40 21 17 18 21 40 90 40

56.7 57.0 55.8 56.7 56.7 56.3 57.2 57.2
4.0 3.7 4.9 4.0 4.0 4.4 3.5 3.5
40 20 17 13 18 21 40

57.11
3.57
40'
Apron

57.28
3.40
48'
Gar. floor

60.68

Events

Orig. B.M.			7.84	39.53	(39.53)
T.P.	2.03	47.37	8.75	45.34	
T.P.	0.44	54.09	12.10	53.65	
N.W.B.P. Diamond +	Events	SS.	4.68	61.07	(60.98)

Gutter. by number.

Curb. Returns by number

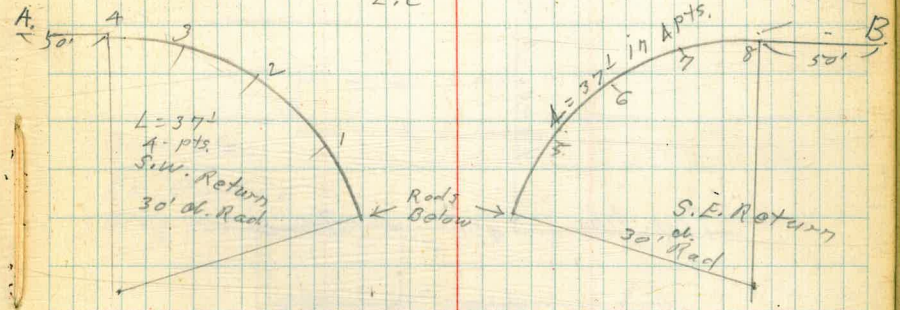
21 8 Lt + 21 8 Rt. = start curbs pavement. Rods on Pave.

2+70 = S. Line Diamond = start. Conc.

2+35

65.75

59.93	59.98	59.98	59.92	59.05	60.21	60.38	60.55	60.73	61.06
5.82 / 1	5.77 / 2	5.77 / 3	5.83 / 4 E.C.	6.70 / A	5.54 / 5	5.37 / 6	5.20 / 7	5.02 / 8 E.C.	4.69 / B
60.43	60.47	60.45	60.41	59.65	60.83	60.96	61.07	61.11	61.37
5.32 / 1	5.28 / 2	5.30 / 3	5.34 / 4 E.C.	6.30 / A 50' west E.C.	4.92 / 5	4.79 / 6	4.68 / 7	4.64 / 8 E.C.	4.18 / B 50' East of E.C.



60.33	59.77	59.84	60.25	60.45		60.15	60.18	60.15	60.78
5.42 / 21 8 cl.	5.98 / 21 8 C	5.91 / 20	5.50 / 10	5.30		5.30 / 10	5.57 / 20	5.60 / 21 8 C	4.97 / 21 8 co
60.0	59.7	58.7	59.6			59.0	60.2	60.3	
5.9 / 40	6.1 / 21	7.1 / 19	6.1			6.8 / 19	5.6 / 23	5.5 / 40	

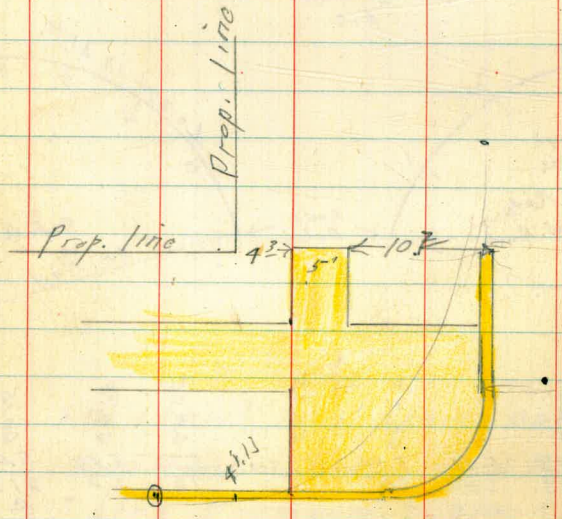
65.75

X-Sec. OLNEY - Garnet to Felspar.

W.O. 25001

9-30-48

Sommermeyer
McCoy x
Allen
James.

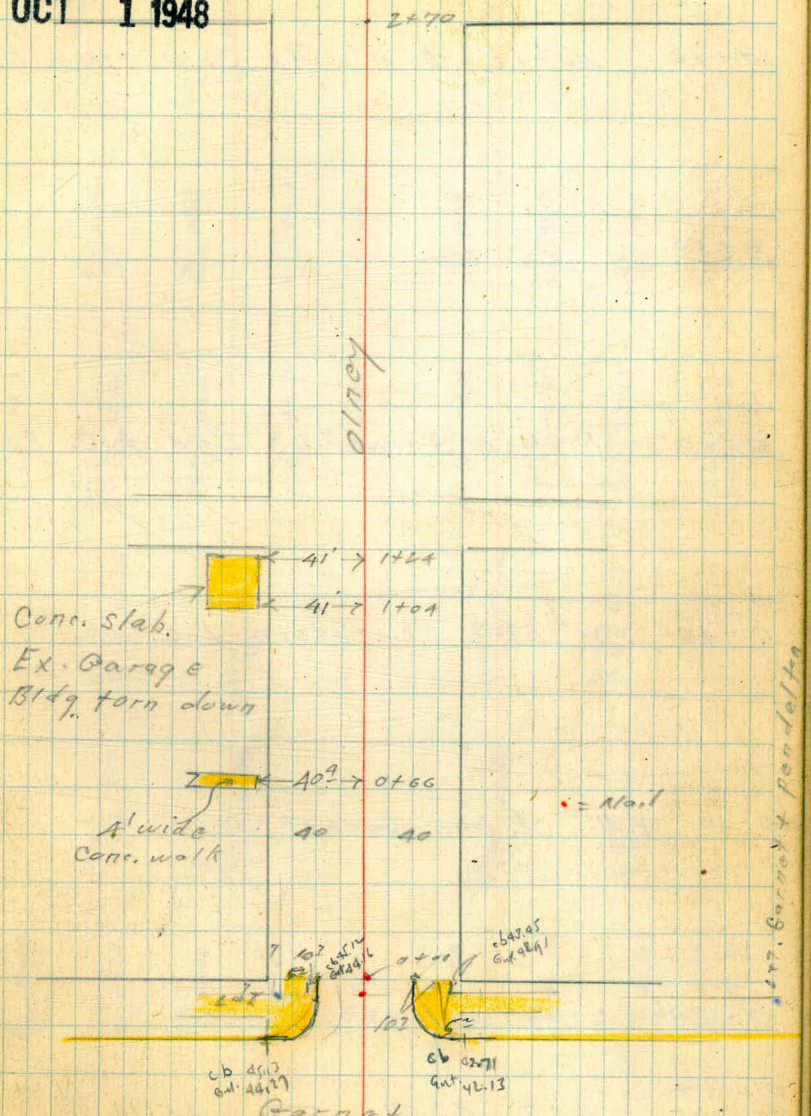


Details curb. Returns.

E. & W. returns alike.

L + T ℄ Diamond

3+10 = ℄ Felspar.



Olney St. Levels

0+60 40² Lt. = ℄ 4' wide Conc. walk.

0+50

0+00 = N. line Garnet. = End A.C. Pav.

0-10 20' Rt. = Cb. return E.C.

0-20 = N. Cb. line Garnet.

0-20' = N. Gutter line Garnet

Olney & Garnet	4.57	49.67	—	45.10	N. W. B. P.

45.11 — 2.56 / 50 — on walk.

46.55 — 3.12 / 40 — ℄ walk

44.4	45.3	44.4	44.6	43.8	44.3	44.0	
3.3 / 40	4.4 / 34	5.3 / 16	5.1	5.9 / 12	5.4 / 20	5.7 / 40	
45.7	45.12	44.16	44.14	43.94	43.47	42.91	43.45	43.2
4.0 / 40	4.55 / 20 Cb End	5.51 / 20 G.	5.53 / 10	5.93 Pav.	6.20 / 10	6.76 / 20 G.	6.22 / 20 cb.	6.5 / 40
	45.02	44.13			42.62		43.18	
	4.65 / 20 cb	5.54 / 20 G.			7.05 / 20 G		6.47 / 20 cb	
	45.13	45.04			42.88		42.71	
	4.54 / 40 cb	4.63 / 30 cb. Rct. B.C			6.79 / 30 Cb. Rct. B.C		6.96 / 40 cb.	
44.27	44.08	43.90	43.63	43.33	42.99	42.58	42.29	42.13
5.40 / 40	5.59 / 30	5.77 / 20	6.04 / 10	6.34	6.68 / 10	7.09 / 20	7.38 / 30	7.54 / 40

49.67

2+00				
T.P.	12.11	58.58	3.20	46.47
1+50				
1+35	℄ Alley			
1+24	41' Lt. = End slab.			
1+04	41' Lt. = start conc. slab.			
1+00				

49.67

4

53.5 — 5.1 / 100

47.8 — 10.8 / 50

47.6 — 11.0 / 40

46.8 — 11.8 / 17

47.2 — 11.4

58.58

44.6 — 12.0 / 10

47.3 — 11.3 / 17

45.8 — 12.8 / 40

45.3 — 13.3 / 55

47.0 — 11.6 / 100

46.8 — 2.7 / 40

46.2 — 3.5 / 26

45.7 — 4.1 / 17

44.1 — 3.6

45.5 — 4.2 / 9

44.2 — 3.5 / 15

45.3 — 4.4 / 40

49.7 — 0.0 / 70

44.6 — 3.1 / 40

45.5 — 4.2 / 17

46.0 — 3.7

45.3 — 4.4 / 8

45.4 — 4.3 / 17

44.9 — 4.8 / 40

44.0 — 5.7 / 100

47.04 — 2.63 / 57 — N.W. Cor slab.

46.67 — 3.00 / 41 — N.E. cor slab

46.95 — 2.72 / 46 — on slab

46.71 — 2.96 / 41 — S.E. cor slab.

47.7 — 2.0 / 75

46.6 — 3.1 / 40

45.5 — 4.2 / 32

44.8 — 4.9 / 17

45.3 — 4.4

44.7 — 5.0 / 9

45.1 — 4.6 / 16

44.7 — 5.0 / 40

49.5 — 5.2 / 75

49.67

Olney

NL. Garnet + Olney — Rod = 12.96, Boot = 50, Total rod 13.46 — 12.46 — 46.12

3+10 = ℄ Felspar.

2+70 = Saline Felspar.

2+35

58.58

℄

55.9	53.3	51.8	52.4	52.0	53.0	54.3	55.2	54.3	
2.7 / 100	6.3 / 40	6.8 / 17	6.2	6.6 / 10	5.6 / 20	4.3 / 40	3.4 / 85	4.3 / 150	
49.7	49.6	48.8	49.7	49.3	49.6	50.2			
8.7 / 40	9.0 / 27	9.8 / 17	8.9	9.3 / 10	9.0 / 19	8.4 / 40			
48.6	47.9	47.7	48.3	47.8	48.1	47.5			
10.0 / 40	10.7 / 27	10.9 / 17	10.3	10.8 / 9	10.5 / 16	11.1 / 40			

58.58

Cross Section Alleys Block 16
Point Loma Hts

Profile 3969

May 3-49
A. Sisson
Roberts
Garber

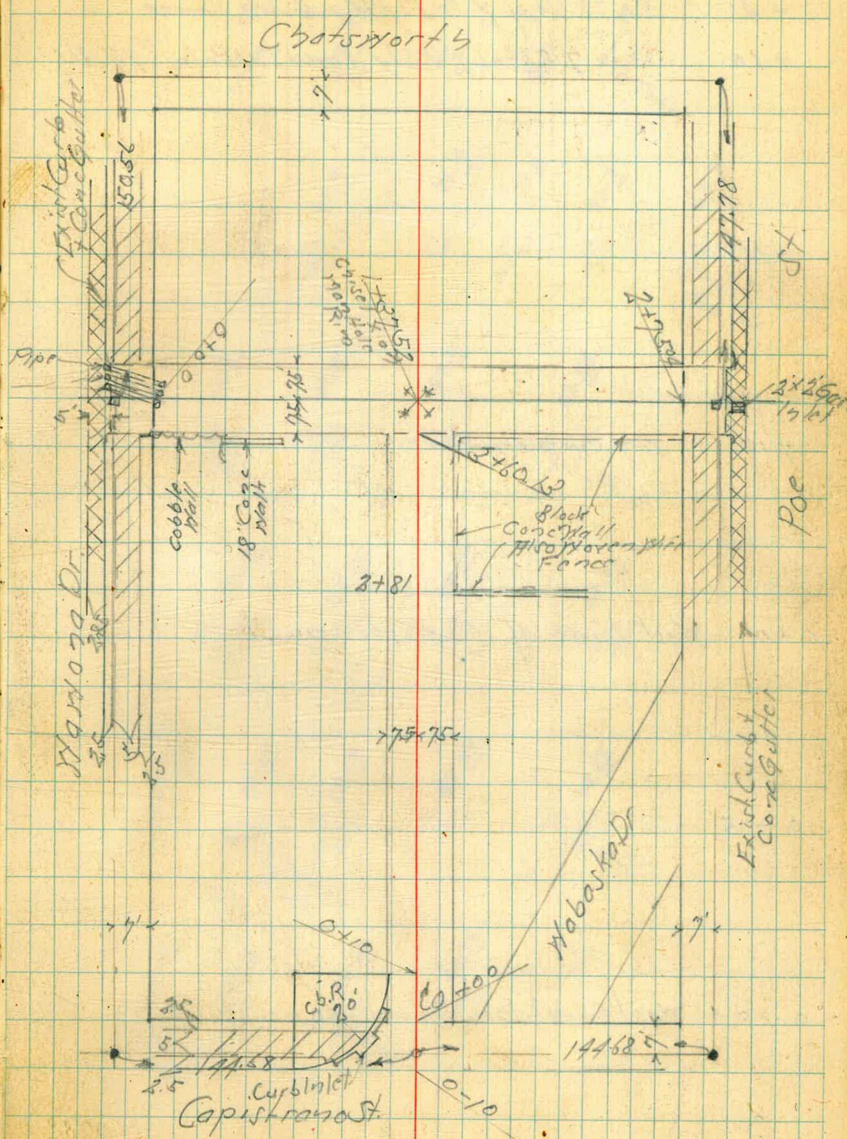
W.O. 25001

Denotes
• Lead & Tack Found
▫ Hub Set
○ Nail Set

1-1½" Corr.
2-1½" Cast Iron

notes reduced and plotted 7/29/49

See P-64 to 71



Cross Section East & West Alley
Block 16 Point Loma Hts.
Sketch Page 40

+41 7.8 Lt of Δ - Fly. High Board Fence

+40 7.5 Lt of Δ: Sly Post + Tel Pole #PA 3608

+14

+10 = Wly Curb on Lt.

0+0 = West Line of Capistrano St.

0-5

0-10 = West Curb Line Capistrano St.

BM 7.50 79.20 71.70 NW BP Capistrano & Poe

June 16-49
Nissen
Barber
Cota
Chavez

Lt=S Δ Rt=N

41

75.3	74.6	73.9	73.4	72.8
3.9	4.6	5.3	5.8	6.4
5.0 Δ	7.5		7.5	16-Topsoil
73.9	71.4	71.0	70.3	68.7
5.3	7.8	8.2	8.9	10.5
7.5		4	7.5	18=AC Paving
70.8	69.00	69.0	68.56	
8.4	10.20	10.2	10.64	
7.5-Ground	7.5-Top Cb.		7.5-Wly AC.	
69.12	68.36	68.50	68.72	
10.08	10.84	10.70	10.48	
9.2-Curb Top	9.2-Gutter Joint		7.5	
69.24	68.20	68.45	68.59	68.85
9.96	11.00	10.75	10.61	10.35
18.9-Curb Top	18.7-Inlet Grate	7.5		7.5 on AC.
70.06	69.1	68.64	68.73	
9.14	10.1	10.56	10.47	
2.75-Top	2.75-Gutter Dirt	7.5 on AC Pave		

79.20

+25				
2+0				
+75				
TP	8.89	85.52	2.57	71.63
+50				
1+0				
+77	5.5 Lt of ℄ - 4 ft. High Board Fence			
0+70				
		79.20		

Lt.		℄		Rt.
83.0 2.5/20	81.1 4.4/7.5	80.4 5.1	80.0 5.5/7.5	76.6 8.9/20
82.3 3.2/20	78.8 6.7/7.5	77.8 7.7	76.5 9.0/7.5	74.2 11.3/20
79.5 6.0/20	76.9 8.6/7.5	76.0 9.5	75.3 10.2/7.5	74.1 11.4/20
		85.52		
77.7 1.5/20	76.9 2.3/7.5	75.8 3.4	75.1 4.1/7.5	74.6 4.6/20
77.0 2.2/20	76.0 3.2/7.5	75.6 3.6	74.9 4.3/7.5	74.5 4.7/20
	75.7 3.5/7.5	75.1 4.1	74.8 4.4/7.5	74.2 5.0/20

79.20

TP	7.57	84.75	3.10	77.18	
+60.13					7.7' Lt of ℄ : ℄ of Wly 3' Hedge East Line of North & South Alley
+30					8.3' Lt of ℄ of ~~E~~ Ely 3' Eugene Hedge
TP	2.08	80.28	7.32	78.20	
+06					
3+0					
+81					
+79					7.7 Lt of ℄ = Sly Port. & Tel Pole # P.A. 3656
2+50					

85.52

Lt. ℄ Rt.

75.8 (4.5 / 7.5) — 75.4 (4.9) — 75.0 (5.3 / 7.5 Ground) — 75.96 (4.32 / 7.5 : Top Wall)

76.1 (4.2 / 20) — 75.6 (4.7 / 7.5) — 75.0 (5.3) — 74.7 (5.6 / 7.5) — 75.51 (4.77 / 7.5 on Conc. Wall) — 74.2 (6.1 / 8') — 74.0 (6.3 / 20')

80.28

76.12 (9.40 / 7.4 Top Wall at Gate) — 75.47 (10.05 / 8.4 = ℄ Conc Walk) — 75.16 (10.36 / 16 on Conc. Walk)

79.7 (5.8 / 20) — 76.8 (8.7 / 7.5) — 76.1 (9.4) — 75.8 (9.7 / 7.5 Ground) — 76.60 (8.92 / 7.5 Top Wall) — 74.9 (10.6 / 17)

82.1 (3.4 / 20') — 78.2 (7.3 / 7.5) — 77.4 (8.1) — 76.6 (8.9 / 7.5) — 76.98 (8.54 / 7.5 : SEly 0.8' Conc Wall) — 74.5 (11.0 / 20 Ground) — 76.15 (9.37 / 20 on Wall)

83.3 (2.2 / 20) — 80.7 (4.8 / 7.5) — 80.0 (5.5) — 79.3 (6.2 / 7.5) — 76.7 (8.8 / 20)

85.52

Cross Section North & South Alley
Block 16 Point Loma Hts
Sketch Page 40

Lt=W | ℄ | Rt=E

Station	Note	Readings (Lt=W → ℄ → Rt=E)
+75		78.1 (6.6 / 20); 78.5 (6.2 / 7.5); 77.1 (7.6 / 4); 78.0 (6.7) ℄; 78.8 (5.9 / 7.5)
+46	7.5 Rt of ℄: Sly High Board Fence	79.3 (5.4 / 20); 79.7 (5.0 / 7.5); 79.6 (5.1 / 3); 78.0 (6.7) ℄; 79.9 (4.8 / 4); 80.4 (4.3 / 7.5); 80.53 (4.22 / 8:=Wly 18" Conc Walk); 80.54 (4.21 / 9.5:=Wly Stucc House)
+39	7.4 Lt of ℄: Wly Pow. & Tel. Pole # 303099H (S.P.A. 1953)	
+19		81.0 (3.7 / 20); 81.0 (3.7 / 7.5); 80.5 (4.2 / 3); 79.1 (5.6) ℄; 81.0 (3.7 / 4); 81.5 (3.2 / 7.5); 82.43 (2.32 / 7.5:=Nly Cobble Wall); 82.55 (2.20 / 12 Top Wall); 81.81 (2.94 / 12:=NH House on Walk)
+03'		81.7 (3.0 / 20); 81.3 (3.4 / 7.5); 79.40 (5.35 / 2.6:=Flow Line 12" C.I. Pipe); 81.0 (3.7) ℄; 82.1 (2.6 / 7); 82.29 (2.46 / 7.5:=Top Cobble Wall)
0+0	= North Line Warrona Dr.	81.14 (3.61 / 7.3:=Cb+Groun); 81.4 (3.3) ℄; 81.58 (3.17 / 7.5:=Curb); 82.51 (2.24 / 7.5:=Top Cobble Wall)
0-10	: North Curb Line Warrona Dr. — 81.23 (3.52 / 46=Cb); 80.26 (4.49 / 46=Gut)	80.87 (3.88 / 29:=Cb); 79.92 (4.83 / 29:=Gut); 81.05 (3.70 / 9.8:=Curb Top); 80.16 (4.59 / 9.8:=Conc Gutter); 80.25 (4.50) ℄; 80.61 (4.14 / 9.8:=Conc. Gutter); 81.60 (3.15 / 9.8:=Curb Top)

84.75

84.75

Lt. ℄ Rt.

2+0

+83

+45.02 : N.L. E+W Alley 7.1 Rt of ℄ : Sly Conc Block wall

+42 1.4 Rt of ℄ : Top SOG&E 10.3
Gate Valve Box

+35.52 : ℄ E+W Alley

+30.02 : S.L. E+W Alley 6.8 Rt of ℄ : Nly High Board Fence

1+03 6.8' Rt of ℄ : High Board Fence

84.75

73.9	73.1	73.1	73.2	74.0	
10.8 / 20	11.6 / 7.5	11.6	11.5 / 7.5	10.7 / 7.5	Top Conc Block wall
75.93	75.10	73.6	73.5	73.8	74.4
8.82 / 36	9.65 / 21	11.1 / 7.5	11.2	10.9 / 7.5	10.3 / 7.5
℄ E+W Alley Garage Conc Floor	℄ E+W Alley Conc Drive			Ground.	Top Conc Block wall
75.9	75.2	73.8	74.6	74.9	75.95
8.8 / 20	9.5 / 7.5	10.9 / 4	10.1	9.8 / 7.1	8.80 / 7.1
				Ground	Top Conc Block wall
			74.59		
			10.16		
			Top Sewer Man Hole		
75.9	75.6		75.4	75.7	
8.8 / 20	9.1 / 7.5		9.3	9.0 / 7.5	
77.93	77.73	76.7	76.7	76.3	76.3
6.82 / 36	7.02 / 21	8.0 / 7.5	8.0	8.4 / 7.5	8.4 / 20
℄ E+W Alley Garage Conc Floor	℄ E+W Alley Conc Drive				

84.75

BM			3.16	78.19	S E B P Chatsworth & Poe 78.21
TP	6.68	81.35	3.97	74.67	
+85.04 = South Curb Line of Poe					
+83	= Sly Existing Conc Gutter				
+75.04 = South Line of Poe	8.9' Lt of ℄ = Nly Wire Fence Metal Posts				
+50					
TP	6.05	78.64	12.16	72.59	
+36	8.5 Lt of ℄ = Sly Wire & Metal Posts				
2+25					
		84.75			

Lt. ℄ Rt.

72.33 / 6.31 / 9.5 Curb Top — 71.42 / 7.22 / 9.5 — 71.06 / 7.58 on Grate — 70.84 / 7.80 / 9.5 = Gutter — 71.78 / 6.86 / 9.5 = Curb Top

72.32 / 6.32 / 7.5 — 71.62 / 7.02 / 7.5 — 71.40 / 7.24 — 71.19 / 7.45 / 7.5 Gutter — 71.81 / 6.83 / 7.5 = Cb Top

72.44 / 6.20 / 7.5 = Cb — 71.6 / 7.0 / 7.5 Ground — 71.4 / 7.2 — 71.7 / 6.9 / 7.5 — 72.00 / 6.64 / 7.6 = Top Curb — 73.49 / 5.15 / 7.6 = Nly Top Conc Block Wall

73.3 / 5.3 / 2.0 — 72.9 / 5.7 / 7.5 — 72.0 / 6.6 / 7.0 — 72.0 / 6.6 — 72.3 / 6.3 / 7.5 — 73.51 / 5.13 / 7.7 = Top Wall

78.64

75.29 / 9.46 / 23.5 Lt Ely Garage Conc Floor — 73.85 / 10.9 / 15.5 Lt Ely 8.2 Conc Drive — 73.0 / 11.7 / 7.5 — 72.6 / 12.1 — 72.8 / 11.9 / 7.7 — 73.6 / 11.1 / 7.7 = Top Wall

84.75

Additional Levels East + West Alley
Block 15 Point Loma Hts
Sketch Page 19

Notes Reduced and Plotted - McClaren 7/27/49
Profile No. 3298

BM			11.17	89.00	On ℄ Hub Both Alleys 89.01 Page 23
3+31.3					
TP	0.27	100.17	12.78	99.90	
1+33					
1+25					
1+05.6					
0+91.3					
BM #1	8.52	112.68		104.16	Hub ℄ Alley 7' Capistrano Page 20

90.87
9.30
18.6 ℄ Gar. Conc Floor
100.17

108.51
4.17
17.7 Wly Gar. Conc Floor

108.10
4.58
7.5 Wly Conc Apron

108.53
4.15
17.6 Ely Garage Conc

108.39
4.29
7.2 Ely Conc Apron

109.01
3.67
17.6 Wly Do Garage Conc Floor

108.50
4.18
7.5 Wly Conc

109.00
3.68
18 Ely Garage Conc Floor

108.47
4.21
8 Ely Conc Apron

112.68

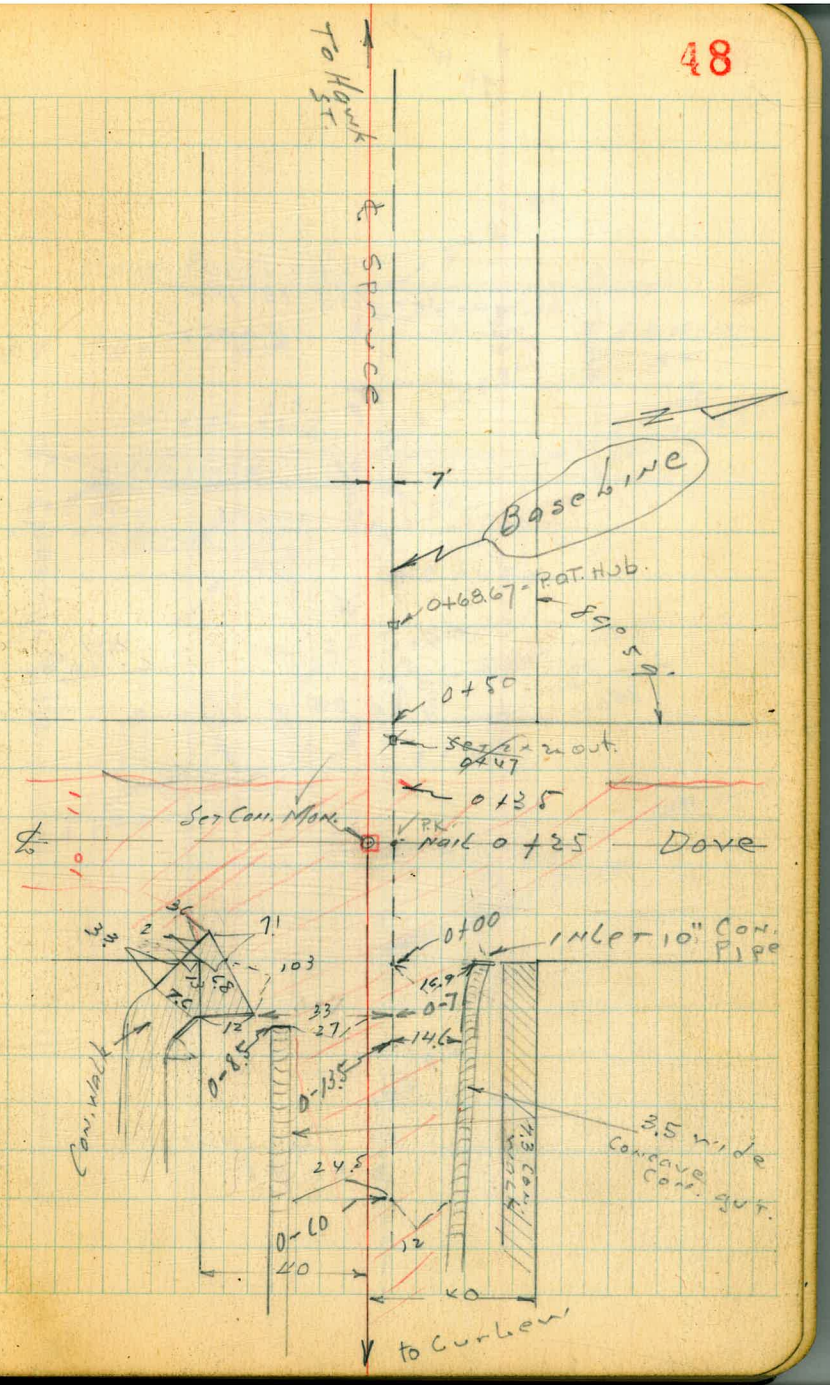
Moore
Harden
Sherman
Sisson

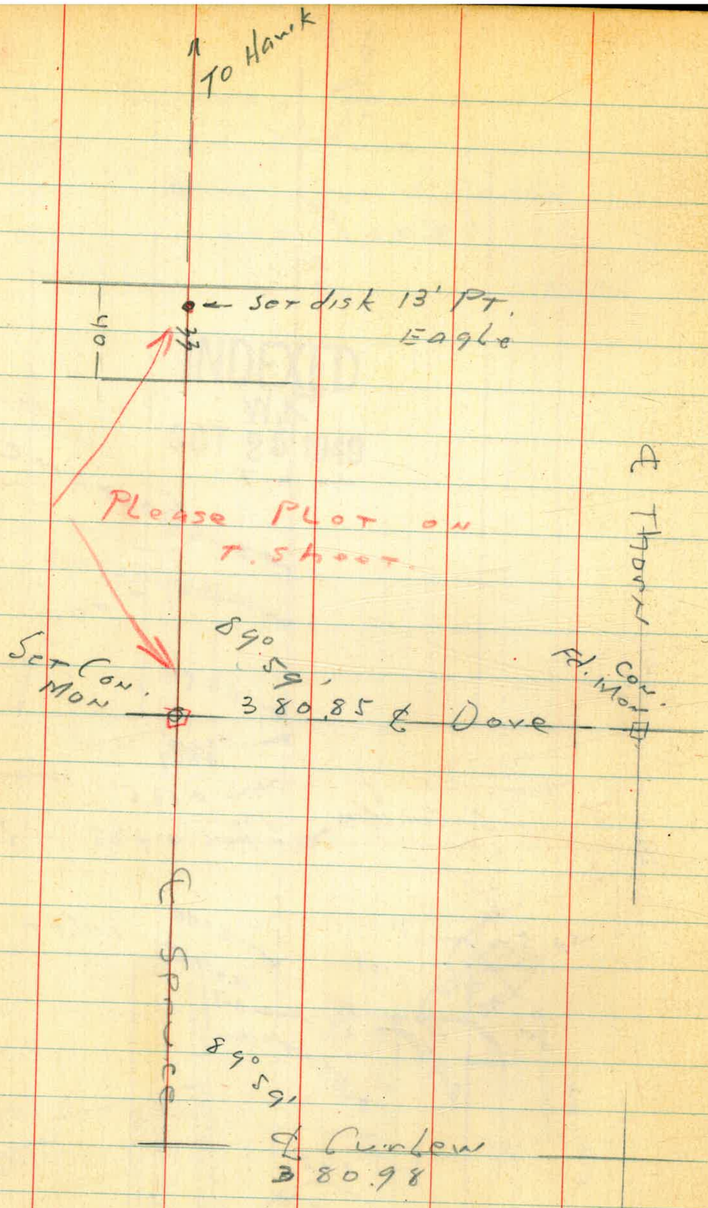
Survey for drain
on Spruce St.
Betw. Dove & Eagle
W.O. 20587

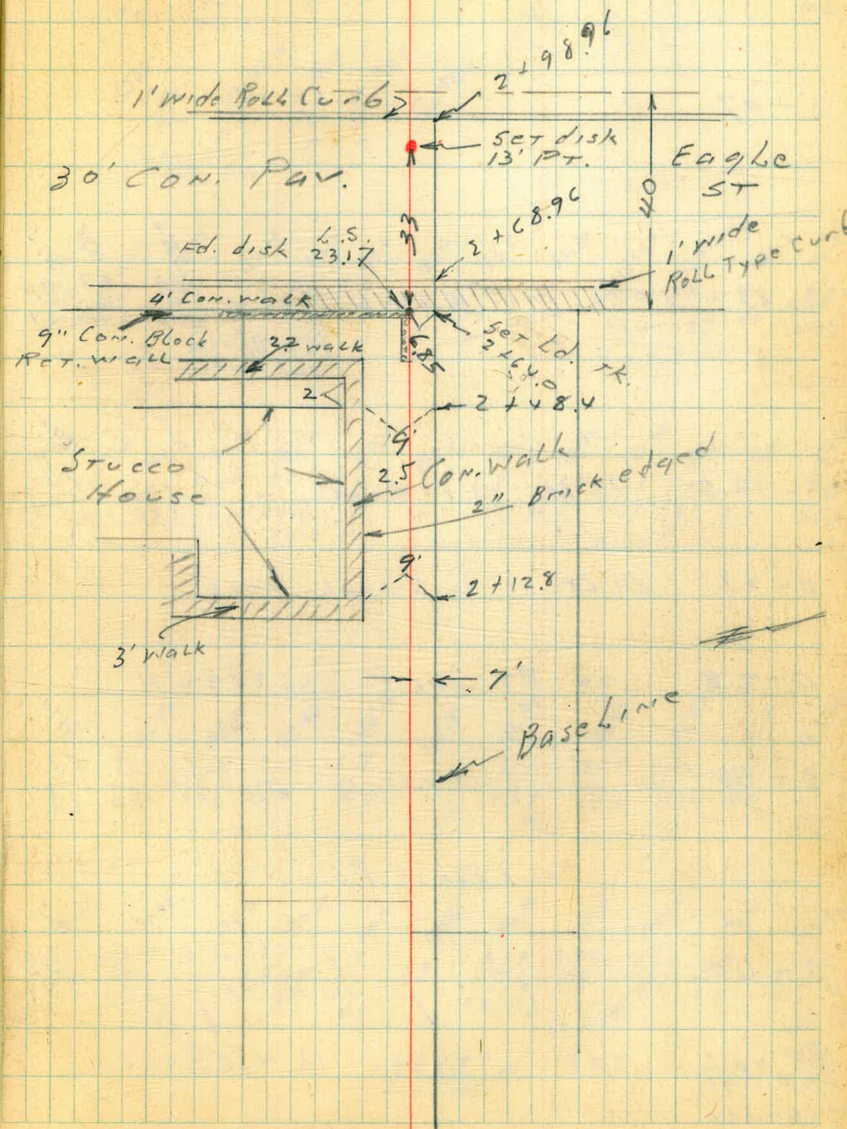
8049-L

INDEXED
W.K.
OCT 25 1949

Red =
1" to 1½"
Cold Bay




To Hawk
Set disk 13' Pt.
Eagle
40
33
Please Plot on
T. Shoot.
Set Con.
Mon
89° 59'
3 80.85 ℄ Dove
Fd. Con.
Mon.
℄ Thorn
℄ Spruce
89° 59'
℄ Curlew
3 80.98


2+98.96
1' wide Roll Curb
Set disk
13' Pt.
30' Con. Pav.
Eagle
St
40
33
Fd. disk L.S.
2317
2+68.96
1' wide
Roll Type Curb
4' Con. walk
9" Con. Block
Ret. wall
3' walk
Set Ld. & Tk.
2+64.0
6.85
2
2+48.4
9'
Stucco
House
2.5 Con. walk
2" Brick edged
9'
2+12.8
3' walk
7'
Base Line

0+00

0-07

0-8.5 3' x LT 12" di. Eucal. Tree — Top Block End Wall

0-13.5 37' LT 14" di. Eucal.

0-23 34' LT 14" di. Eucal. Tree

0-28 22' RT Tel. P 46 8592 H

0-30

Pav. Edge = P.E.

0-60

8" W. Nail P.P 3196 ± Spruce and Sly. Dove

7x8 192.48 Fd. → 185.00 = used.

Check Elev. & Profile - 9-28-54 - 7.0. Same ±

W.O. 32381

✓ = Sect. o.k.

Lt ℄ Rt

0+47

0+46 16.6 Lt Beg. Picket fence

0+45.7 = Cross 3' Picket fence

0+45 6.3 Lt - ℄ P.P. 15" di. = BM. 185.00

C.T.R. P.P. .31 9.6 / 6.3

0+38 = ℄ Prop. Clean out

0+35 W. edge Cold Lay Pav.

0+25 ℄ Dove ST

0+20.5 - 7.2' Lt. - ℄ Sewer M.H. S. Rim 81.23 I.E. 73.22

T.P. = spike 0.03 185.03 7.8 185.00

0+14

192.48

Station								
0+47	179.0 6.0/47	179.8 5.2/25	81.0 ~~181.3~~ 3.7/7	81.2 ~~181.4~~ 3.6	180.7 4.3/20	180.0 5.0/33		
0+38	178.0 7.0/60	179.0 6.0/47	180.3 4.7/25	181.1 3.9/7	81.2 ~~181.3~~ 3.7	180.7 4.3/20	180.4 4.6/33	
0+35	177.5 7.5/60	178.5 6.5/47	179.9 5.1/25	180.62 4.4/7	80.77 180.7 4.3	180.3 4.7/20	179.7 5.3/33	
0+25	178.0 7.0/60 P	178.3 6.1/47 P	180.3 4.7/25 P	181.02 4.01/7 Mon.	181.1 3.9 P	180.8 4.2/20 P	180.3 4.7/33 P	
0+14	178.9 13.6/45 P.E.	179.0 12.5/35 P	180.5 12.0/25 P	181.5 ~~185.5~~ 181.5 7.0/13 P	181.84 10.64 P	181.6 10.5/11 P	181.2 11.3/20 P	180.9 11.6/33 P.E.

185.03

192.48

0+88.5 – 7' Lt. = ± 1" Acacia

0+85 – 4.2' Lt. = ± 1" Euc.

0+80 – out.

0+76 – 16.6' Lt. = ± 16" Euc.

0+75 10' Lt. 16" diam Eucal out.

0+72

0+71 7' Rt. ✓ 8" d. ~~Eucal~~ Acacia

T.P. 0.26 176.55 ✓ 8.74 176.49

0+67 – out.

0+53 = Toe of Bank

0+50 W.L. Dove

185.03 ✓

Lt. BL. Rt.

145.6 146.8 166.6 166.0 161.8 162.0 168.0 169.6 168.2
10.9 9.7 9.9 10.6 14.8 14.5 14.5 8.1 7.0 8.1
30 17 11 7 4 14.5 2 10 15 30

166.8 167.4 165.0 165.8 166.0 170.0 172.0 170.0 168.4
9.8 9.1 8.6 10.7 10.6 6.6 4.5 6.6 8.1
33 17 8 7 5 5 15 20

168.2 169.2 170.4 173.2 172.2 176.0 176.0
8.4 7.4 6.1 3.4 3.3 0.6 0.6
33 17 5 5 9 30

170.8 171.8 175.9 175.8 176.0 175.9
14.2 13.2 9.1 9.2 9.0 9.1
25 17 7 20 33

174.6 174.8 176.3 175.7 176.0 175.9
10.6 10.2 9.0 8.6 7.5 9.1
47 25 7 10 30 33

178.4 179.2 180.5 179.9
6.6 5.8 8.0 5.1
47 25 10 33

185.03 ✓

1+48 - filled in

1+40

~~1+33~~ - Sect. out.

1+15 = Beg. wash

1+1x - Sect. out.

T.P. 0.83 151.80 12.80 150.97 ✓

T.P. 0.28 163.83 13.00 163.55 ✓

1+03 ✓ 2' RT. & 10" dia. Pepper Tree Sect. out.

0+97 - out

0+95.5 - 4' Lt. = ± 1½" Acacia

0+95

0+87 - out

176.55

8.6

42.8 38.6 39.0 40.2 46.2 = Top bank

38.6 = E wash

48.3 47.3 43.4 = E wash 49.8 54.0

f.l. out let 10" Con. Pipe 151.80 ✓

56.4 58.5 63.7

176.55 ✓

2+06 – Sect. out.

2+05

2+00 – Sect. out.

1+90

T.P. 0.64 139.54 12.90 138.90

1+79 – Sect. out.

1+76

1+73 ✓ 11' Lt 24"d. Eucal tree Now stamp Sect. out

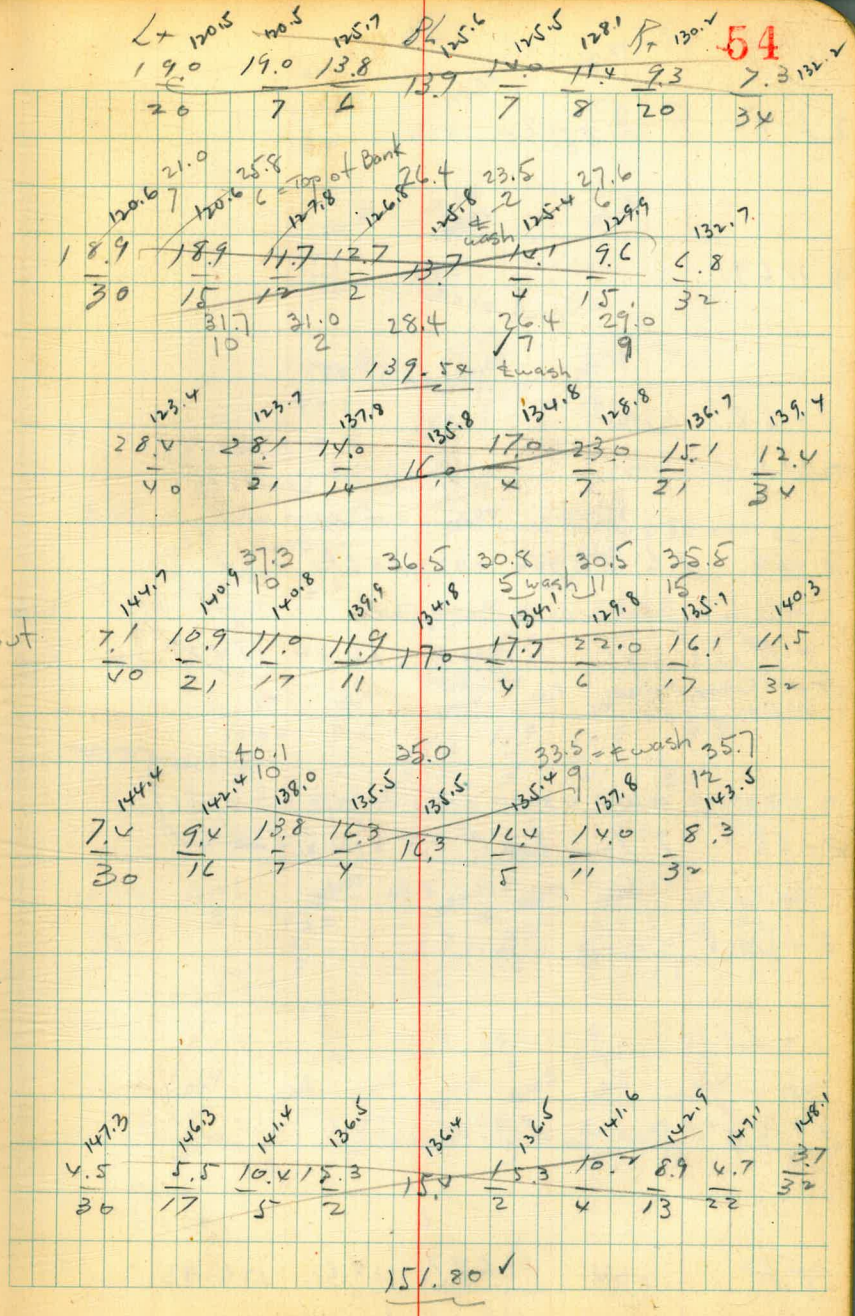
1+70

1+65 ✓ 16' Lt end Pick fence Sect out

1+60 ✓ Lt Lt=t P.P. T.P. 31.96=BM 138.90=spike

1+53 – Sect. out

151.80



2+84 ℄ Eagle

2+69
on Tang. Prod. ahead

2+68
for ℄ along Eagle See P. 56

2+65.92 = Cross - P.I. of "C" Line = Book 2361 - P. 19

0.10 Lower

2+63.92 = Ld. + ct. = Begin using our Datum which is about

2+64 F.L. Eagle on walk

2+52.6 - End walk + Beg. wall

T.P. Nail 331 | 117.48 | 12.80 | 114.17

Tel. Guy Pole 7' Lt. 3+00

2+43.92 = Hub - 0 too - on "C" Line = B.C.

2+63 ✓ 7' Lt Tel P D 3.42 T

2+30

2+25/26 - Sect out.

2+15

2+12.8 = Beg. House - 115 Lt. - Sect out.

T.P. | 0.04 | 126.97 | 12.61 | 126.93
| | 139.54 | | |

112.70 4.78 / 30 | 109.34 8.4 | 105.84 11.54 / 30

112.89 4.59 / 30 | 09.44 (109.52) 7.96 | 106.06 11.42 / 30

113.19 4.29 / 30 | 09.69 (109.80) 7.68 | 106.38 11.10 / 30

10.61 / 7.7 | 09.68 on Cross | 09.69 = on at

10.63 / 7.7 = walk at | Cor. of wall 113.13 4.35 / 30 | 109.82 7.66 | 106.43 11.05 / 30

19.61 / 9 walk | 20.28 / 7.4 Beg wall | 20.0 / 5 | 17.4 | 12.4 / 6 | 09.9 / 14 = ℄ wash

117.48

Top Wall 10.90 / 8 | 116.1 9.6 / 7 | 117.4 | 110.2 16.8 | 109.7 17.3 / 8 | 116.4 10.6 / 10 | 117.1 9.9 / 30

19.93 / 9 = walk | 19.5 / 2 | 17.81 on Hub | 12.6 / 5 ℄ wash | 20.0 / 6 | 20.5 / 10

20.42 / 9 walk | 21.1 / 3 | 119.77 7.20 / 9 | 14.8 118.1 8.9 wash | 14.4 / 4 115.3 11.7 / 6 | 119.5 7.5 / 9 | 22.7 / 5 119.1 7.9 / 15 | 23.2 / 10 119.6 7.4 / 30

Cor. walk

20.7 / 7 | 24.0 / 6 | 24.8 | 24.2 / 3 | 18.8 / 5 = ℄ wash | 23.8 / 8

120.62 6.35 / 9 Cor. walk | 120.5 6.5 / 6 | 124.5 2.5 / 5 | 124.2 2.8 | 124.8 2.2 / 7 | 126.5 0.5 / 10 | 129.2 +2.2 / 15 | 130.0 +3.0 / 30

126.97

See B.2361-P.20

2+87.92 = 0+34.56 = E.C. on "C" Line

2+75 - on Eagle St. Tang.

Cont. from P. 55

Check to 13'Ld. C.T. Curlew at Torrence		1.95	161.47	161.47 / 0.00
T.P.	11.15	163.42	0.3w	152.27
T.P.	4.39	152.59	1.7z	148.20
T.P.	11.34	149.92	0.02	138.58
T.P.	12.57	138.60	0.69	126.03
T.P.	12.55	126.7w	3.31	114.17

3+00 w C6 Eagle

2+99 At gut

117.48

L+ BL

07.22 on Cross

08.41	08.65	08.67	08.70	08.00	08.88
3 gut.	2 Top		2 walk & Beg. Conc. Slab.	3.3 edge of Conc. Beg. A.C.	7 = edge A.C.

Notes Reduced 1-12-30

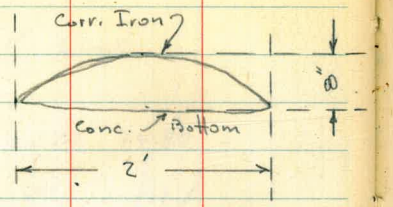
113.34 / 4.4 / 30 — 109.83 / 7.65 — 106.30 / 11.18 / 30

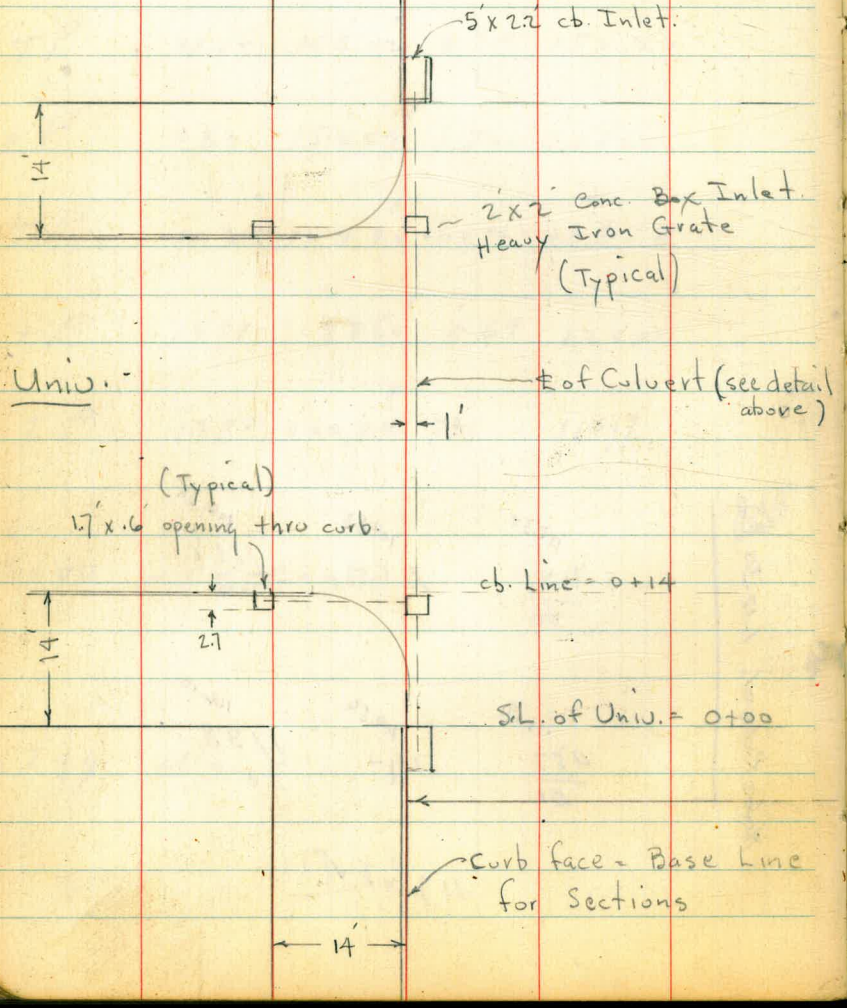
112.91 / 4.57 / 30 — 109.56 / 7.47 — 106.10 / 11.38 / 30

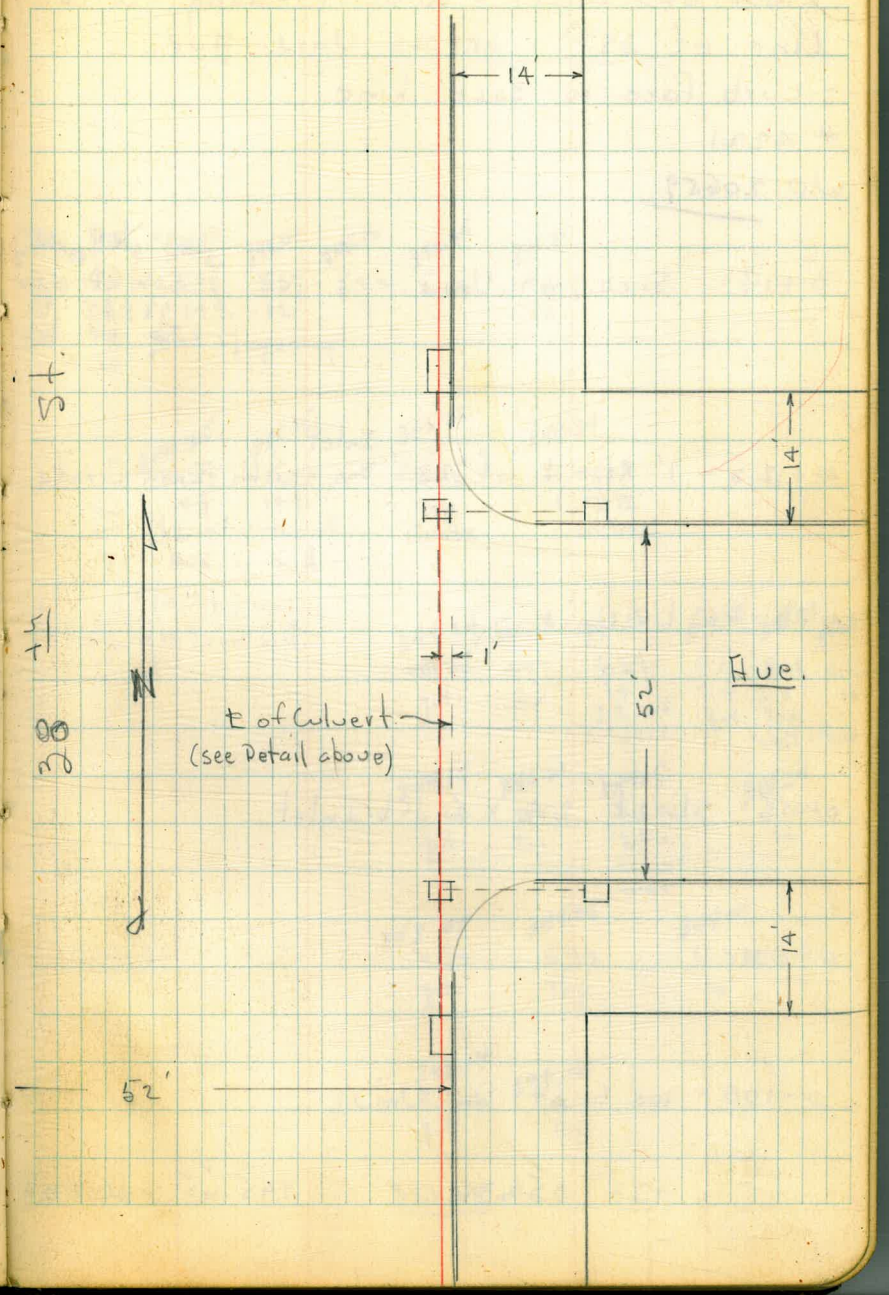
117.48 ✓

W.O. 20659

Detail of Corr. Iron arch Culvert.







Elev. of Inlets & culverts along - W. cb. Line of 38th - across Univ. Ave.
- curb face is Base Line.
4221
W.O. 20659

W. cb. face - Base Line

Lt. = W. Rt. = E.

0+14 = S. cb. of Univ.

345.32 344.98 345.12
5.06 5.40 5.26
38 38 29
Top gut. gut.

344.88 345.34 344.43 345.01 345.16 345.25 345.71
5.50 5.04 5.98 5.37 5.22 5.13 4.67
17 14.9 14.9= 12 7 10
gut. Top ℄ of 17 opening
cb.

0+12.5 = 1' Rt. = ℄ of 2'x2' Inlet Box - with Iron Grate

344.35 345.35 345.23 344.34
6.03 5.03 5.15 6.04
14.9 14.9= Top 1 = I.E.
I.E. of Top of Grate of Box
Box Lid.
(1.7'x 1.7')
with Iron Lid.

0+00 = S.L. Univ.

344.34 345.41 344.16 344.27 345.37 345.63
6.04 4.97 6.22 6.11 5.01 4.76
gut. Top 14 = 2.4 2.4 10
I.E. of gut Top
Culvert wall + Pave

0-05 = S.L. of 2.4' x 5' cb. Inlet

344.15 345.21 344.18 345.37
6.23 5.17 6.20 5.01
gut. Top 2.4 = 10
end of
wall

0-50

343.48 344.05 344.00
6.90 6.33 6.38
gut. Top 10

0-100 = 100' S. of SL Univ.

342.14 342.74
8.24 7.64
gut. Top

473 350.38 345.65 N.W.B.P.

38th & Univ. 350.38 ✓

85.5' N. = N. end of Inlet

80.5' N. = Nly. of Conc. Headwall to Inlet.

80' N. = N.L.

0+67.5 - 1' Rt. = ℄ of 2'x2' Box inlet with Iron Grate

0+66 = N. cb.

0+54 = end New Cover

0+40 = ℄ Univ.

0+25.5 = Beg. New C.L. Cover.

Lt. ℄ = cb. line Rt.

344.99	345.64	345.08	345.29	345.92
5.39	4.74	5.30	5.09	4.46
		2.2	2.2	10
gut	Top	gut	Top - end of wall	

344.82	345.55	344.73	344.78	345.68	346.01
5.56	4.83	5.65	5.60	4.70	4.87
gut.	Top	1.2 = ℄ I.E. of Culvert.	2.2 gut.	2.2 Top = Cor. Inlet	10

344.61	345.68	345.65	344.74	345.98
5.77	4.70	4.73	5.64	4.40
14.8	14.8		1 =	10
I.E. of Box	Top = Iron cover to 1.7 x 1.7 Box	Top of Grate	I.E. of Box	

345.98	345.61
4.40	4.77
50	50
Top	gut.

345.56	344.96	344.82	345.67	345.44	345.60	345.69	345.96
4.82	5.42	5.56	4.71	4.94	4.78	4.69	4.42
16	16	14.8	12	12	7		10
Top	gut.	gut. ℄ of 1.7' opening in cb.	Top	gut			

346.06	346.14	346.19
4.32	4.24	4.19
14		10

346.44	346.42	346.42
3.94	3.96	3.96
14		10

345.80	345.82	345.91
4.58	4.56	4.47
14		10

350.38 ✓

1+30 = end.

1+23.9 - 19.8 Lt. = ℄ 12" Diam. Gas Lid.

1+12.8 - 19.6' Lt. = ℄ 12" Diam. Gas intake Lid.

346.06 346.72
4.32 3.66
G.L. Top

346.83
3.53
19.6 =
Top

346.65
3.73 = Top
19.6

350.38 ✓

REDUCED 4-12-50 BY MEEK

Elev. of Inlets & Culverts along E. cb. of 38th - Across Univ.

Lt. = W. ← E. cb. Line Rt. = E

0+12.1 = 1' Lt. ℄ of 2'x2' Box - Iron Grate
14.7' Lt. = ℄ of 1.7'x1.7' Box - Iron Lid

0+00 = S.L. Univ. = Nly. of Inlet.

0-05 = Sly. of Inlet

Station	Elev.	Rod	Dist.	Note
0+14 Cont.	345.47	4.91	50	gut.
	345.80	4.58	50	Top
0+14	345.99	4.39	26	
	345.81	4.57	10	
	345.65	4.73		
	345.51	4.87	12	gut.
	345.72	4.66	12	Top
	344.91	5.47	14.7	gut, ℄ of 1.7 opening
	345.38	5.00	16	gut
	345.76	4.62	16	Top
0+12.1	345.78	4.60	10	
	344.60	5.78	1'	= I.E. of Box
	345.52	4.86		Top Grate
	345.75	4.63	14.7	= Top of Lid
	344.77	5.61	14.7	I.E. of Box
0+00	345.90	4.48	26	
	345.74	4.64	10	
	345.70	4.68	2.3	Top
	344.58	5.80	2.3	gut
	344.54	5.84	1.1	= I.E. of Culvert
	344.62	5.76		gut.
	345.76	4.62		Top
0-05	345.28	5.10	17	
	344.50	5.88	2.3	Cor. + Pave
	344.47	5.91		gut
	345.58	4.80		Top
0-50	344.22	6.16	10	
	343.72	6.66		gut
	344.38	6.00		Top
0-100	342.48	7.90		gut
	343.12	7.26		Top

350.38✓ - P. 60

0+80.9 = Nly. of Headwall to cb. Inlet

0+80

0+67.6 = 1'-Lt. = ℄ of 2'x2' Box Inlet - Grate Iron

0+66 Cont.

0+66 = N. cb.

0+54 = end Cover

0+40 = ℄

0+25.5 = Beg. New Cover

Lt

~ cb. line (E)

Rt 62

346.31 / 4.07 / 26

346.09 / 4.31 / 10

346.03 / 4.35 / 22 / Top

345.20 / 5.18 / 22 / out

345.17 / 5.26 / 1.1' = I.E. of Culvert

345.22 / 5.16 / ℄

346.02 / 4.36 / Top

346.10 / 4.28 / 10

345.06 / 5.32 / 1' = I.E. of Box

345.94 / 4.44

346.18 / 4.20 / 1.5' = Top - ℄ of 1.7' x 1.7' Box Iron Lid

345.25 / 5.13 / 1.5' = I.E. of Box

346.12 / 4.26 / 17 / Top

345.75 / 4.63 / 50 / out.

346.22 / 4.16 / 50 / Top

346.29 / 4.09 / 26

346.11 / 4.27 / 10

345.97 / 4.41

345.85 / 4.53 / 9

345.48 / 4.90 / 14 / out.

346.18 / 4.20 / 14 / Top

346.35 / 5.13 / 15 / out. ℄ 1.7' opening

345.47 / 4.91 / 17 / out

346.28 / 4.10 / 26

346.25 / 4.13 / 10

346.23 / 4.15

346.17 / 4.21 / 14

346.46 / 3.92 / 26

346.50 / 3.88 / 10

346.53 / 3.85

346.54 / 3.84 / 14

346.06 / 4.32 / 26

346.09 / 4.29 / 10

346.07 / 4.31

346.03 / 4.35 / 14

350.38 ✓

Lt. = cb. Line Rt

1+30

0+85.9 = Nly. of Inlet.

346.33
4.05
out

344.99
3.39
Top

346.12
4.26
10

345.43
4.95
2.2
Top
end of
wall

345.23
5.18
2.2
out

345.25
5.13
out

346.09
4.29
Top

350.38

REDUCED 4-12-50 BY MEK.

N+S Alley Blk 15 Pt. Loma Hgts

Sommermeyer
Begg
Shepard
Oltman

6-June'51
W.O. 31743

Additional notes

See pages 19+24 for. Orig. notes.

Nail in Pole # P.A 1925

T.P.	0.94	90.66	8.57	89.72	=T.P.#1
1+45					
1+30					
	use these notes for yardage				
1+00					
0+50					
0+10					
0+00	N'ly Oliphant				
	1.38	98.29		96.91	= B.M. "A"

89.4 8.9 7E | 89.2 9.1 | 89.6 8.7 7E

90.1 7.6 7E | 90.4 7.9 6 | 90.2 8.1 | 90.6 7.7 7E

92.0 6.3 10 | 92.0 6.3 7E | 91.5 6.8 5 | 91.2 7.1 | 91.4 6.9 6 | 91.8 6.5 7E | 91.5 6.8 10

93.9 4.4 10 | 93.7 4.6 7E | 93.3 5.0 5 | 93.3 5.0 | 93.7 4.6 6 | 94.2 4.1 7E | 94.2 4.1 10

96.3 2.0 10 | 96.3 2.0 7E | 95.9 2.4 7 | 96.1 2.2 | 96.1 2.2 7E | 96.5 1.8 8

96.61 1.68 Prop. pave Gr. 7E | 96.1 2.2 | 96.2 2.1 | 96.4 1.9 7E | 96.61 1.68 7E Prop. pave grade

cb and 7E Rt. sta Page 24. (on L+T)

Alley Blk 15 Pt. Loma Hgts

2+92 - 6⁹ Lt. = B.C. 3' cb. Rad.

6⁹ Lt. = face of cb

2+77.33 4⁵ Lt. = ℄ curb inlet box

2+75.05 = Sly Wawona

end of driveway cut.

2+49 6⁹ Lt. = Face of curb at

2+35 6⁹ Lt. = start conc. cb.

2+10 11' Lt. = end Conc. drive

2+00

1+99 11⁰ Lt. = start Conc. drive

1+70

82.30
8.36
6⁹
cc

82.33 81.66 81.76
8.33 7.00 8.90
6⁹ 6⁹ 4⁵
cb. grate

82.40 81.8 82.0 82.3 82.54
8.26 8.9 8.7 8.4 8.12
6⁹ 6⁹ 7 7⁴
top. cb. top cb

83.38
7.28
6⁹
top of cb.

83.5✓ 83.50 83.5 83.6 84.0 84.7
7.14 7.16 7.2 7.1 6.7 6.0
7⁵ 6⁹ 6⁹ 7⁵ 10
cb. cb.
in drive end

86.54 86.16 85.96
4.12 4.50 4.70
31 15 11
Gar floor

86.3 86.✓ 86.3
4.4 4.5 4.4
7⁵ 7⁵

86.53 86.25
4.13 4.41
31 11⁰
Gar. floor

88.✓ 88.1 88.4
2.5 2.6 2.3
7⁵ 7⁵

90.66

Alley Blk 15 Pt Loma Hgts
Also Alley Blk 16 Pt. Loma Hgts

0-10.5 — 4' Rt. = Ctr. 4'x4' storm drain C.O.

4.72	85.77	8.78	81.05	T.P. end ch. 73+40+00
0.11	89.83	-	89.72	T.P. #1 P 64

℄ = Sly. edge Conc. gutter

=0-12 — 7 Rt. } = Δ in Sly line Conc. gutter
3+23 — 29' Lt. }

=0-13 — 11 Rt. } Nly. side diaphant
3+22 — 34' Lt. } = Δ in Sly line Conc. gutter

Start Blk 16.

2+88 — End conc. gutter

2+85 — 17 Conc. gutter

2+83.1 - start Conc. cross gutter

80.69	80.81	80.82
5.08	4.96	4.95
	2	6
	Wly	Ely edge
	edge.	

85.77.

80.10	80.64	80.84
10.56	10.02	9.82
29		7

80.14		80.87	82.73
10.52		9.79	7.93
34		11	38

81.59	81.67	81.76
9.07	8.99	8.88
75		75
81.38	81.50	81.53
9.28	9.16	9.13
75		75

82.30	81.63	81.73	81.82	82.44
8.36	9.03	8.93	8.84	8.20
75	75		75	74
ch.	G		G	ch.

90.66

Alley Blk. 16 Pt. Loma Hgts

0+30 $7\frac{3}{}$ Rt. = start conc. cobble wall

0+19.6 $8\frac{1}{}$ Rt. = start $1\frac{5}{}$' wide N.S. conc. walk

use these notes for yardage

0+19.5 $7\frac{3}{}$ Rt. = end conc. cobble wall.

B.W. = Base of wall
T.W. = Top of wall

0+00 = { $7\frac{5}{}$ Rt. = Face conc. cobble wall
$7\frac{3}{}$ Lt. } = End alley curbs
$7\frac{5}{}$ Rt. }
Nly. line Wawona

0-02.5 $7\frac{3}{}$ = start 1' high cobble conc. wall on curb.

0-07.5 $7\frac{5}{}$ Rt. } = E.C. $2\frac{5}{}$' Rad. cb. Ret.
$7\frac{3}{}$ Lt. }

0-08 Nly edge conc. gutter

$18\frac{8}{}$ Lt. = Ely end curb inlet + thrust.
10' Lt. }
10' Rt. } = B.C. $2\frac{5}{}$' cb. Ret

0-10 = Nly cb. line Wawona

80.9	81.6
4.9	4.2
$7\frac{3}{}$	$7\frac{3}{}$
B.W.	T.W.

80.2	80.3	80.3	81.7	81.62	81.67
5.6	5.5	5.5	4.1	4.15	4.10
$7\frac{5}{}$		5	$7\frac{5}{}$	$8\frac{1}{}$ walk	$9\frac{6}{}$ walk

80.7	19.7	82.3
5.1	6.1	3.5
$7\frac{3}{}$	$7\frac{3}{}$	$7\frac{3}{}$
	B.W.	T.W.

81.1	81.05	80.9	81.1	81.2	81.54	81.2	82.5	82.5
4.7	4.72	4.9	4.7	4.6	4.123	4.6	3.3	3.3
10	$7\frac{3}{}$	$7\frac{3}{}$			$7\frac{5}{}$	$7\frac{5}{}$	$7\frac{5}{}$	1.5
	cb.				cb.	B.W.	T.W.	

81.00	80.5	80.8	81.47
4.77	5.3	5.0	4.30
$7\frac{3}{}$	$7\frac{3}{}$	$7\frac{5}{}$	$7\frac{5}{}$
cb.			cb.

80.99	80.42	80.67	80.83	81.48
4.78	5.35	5.10	4.94	4.29
$7\frac{4}{}$	7.4		$7\frac{5}{}$	$7\frac{5}{}$
cb.	G		G	cb.

80.87	80.05	80.90	80.34	80.71	80.76	81.47	81.90	82.85
4.90	5.72	4.87	5.43	5.06	5.01	4.30	3.87	2.92
$18\frac{8}{}$	$18\frac{8}{}$	10	10		10	10	30	30
cb.	G	cb.	G		G	cb.	G	cb.

85.77

Alley Blk 16

0+95 22 Lt. = start conc. drive

0+89 6½ Rt. = ℄ E.+W. Cobble wall. Conc.

0+70 7½ Rt. = line of fence

7½ Rt. = end conc. walk

0+46 7¼ Rt. = start 6' high board fence

0+44½ 8½ Rt. = ∆ in wly line walk

0+39 7½ Lt. = Back edge Pole #J.P.A. 1953

0+34⅝ 8½ Rt. = start 1½ wide conc. walk

8½ Rt. = End conc. walk.

0+34⅝ 7½ Rt. = {also = Nly. Face ℄ E+W. conc. wall / End Cobble Conc. wall

77.87 77.71
7.90 8.06
37 22
Gar. Floor Dr.

77.4 76.4 79.0
8.4 9.4 6.8
6½ 6½
B.W. T.W.

78.1 77.8 78.0 79.0
7.7 8.0 7.8 6.8
7½ 6 7½

79.6 79.0 79.5 79.9 80.3 80.39 80.45
6.7 6.8 6.3 5.9 5.5 5.38 5.32
7½ 6 7½ 7½ 7½ walk 9½

80.44
5.33
8.1

79.9 79.5 79.9 80.5 80.5½ 80.63
5.9 6.3 5.9 5.3 5.19 5.14
7½ 6 7½ 8 9½
walk

79.9 79.5 80.0 80.9 79.8 81.7 81.62
5.9 6.3 5.8 4.9 6.0 4.1 4.15
7½ 6 7½ 7½ 7½ 8½
B.W. T.W. walk

85.77

Alley Blk 16

1+67	8^{6} Lt. = Δ to left in wall				
+59	7^{5} Rt. = Face of wall				
1+55	7' Lt. start conc. wall				
1+45	7' Rt. = also= start N.+S. Conc. block wall Sly. face E.+W. Conc. Block wall				
T.P.	1.81	77.82	9.76	76.01	Nail in pole # P.A. 1975
1+40	7^{2} Lt. = pole # P.A. 1975				
1+31	37 Lt. = ℄ double Gar. Conc. floor				
	6^{8} Rt. = end board fence.				
1+30	Sly. line E+W. Alley to east				
1+10	22' Lt. = end Conc. drive				
1+00	7° Rt. = line of fence				

75.3	74.2	74.4
2.5	3.6	3.4
8^{6}	8^{6}	8^{6}
T.W	B.W	

75.4	74.4	74.4
2.4	3.4	3.4
7'	7'	7'
T.W	B.W	End

75.3	74.7	74.4	74.5	74.3	75.8	74.8
2.5	3.1	3.4	3.3	3.5	2.0	3.0
7^{5}	6		7'	7'	7'	7^{5}
				B.W	T.W.	

77.82

76.23
9.54
37
Gar. floor

75.1	75.2	74.9	75.1	75.7
10.1	10.6	10.9	10.7	10.1
7^{5}	6		6	7^{5}

77.87
7.90
37
Gar. Floor

77.63
8.14
22
drive

77.0	76.5	76.3	76.4
8.8	9.3	9.5	9.4
7^{5}	6		7^{5}

85.77

Alley Blk. 16

T.P.	4.60	76.07	6.35	71.47
2+79	5' Rt. & 1.8' x 4.5' catch basin			
	6.9 Rt. = face of cb.			
	8.8 Lt. = end pipe & wire fence			
2+75	7.5 Lt. = start alley cb			
2+37	9' Lt. = Pipe & wire fence.			
	7.5 Rt. = face of wall			
2+35	6.9 Rt. = start alley curb			
2+29	15' Lt. = end conc. drive			
2+20	15' Lt. = start conc. drive			
	22' Lt. = end conc. drive			
1+90	7.5 Rt. = face of wall			
1+75	22 Lt. = start conc. drive			
	= End conc. wall			

71.22 71.14 71.86
6.60 6.68 5.96
5' 6.9 6.9
lip grate cb

77.32 71.7 71.3 71.2 71.94 73.4
5.50 6.1 6.5 6.6 5.88 4.4
7.5 7.5 6.9 6.9 7.5
cb. rep curb T.W.

73.0 72.6 72.3 72.3 72.57 72.3 71.5 73.5
4.8 5.2 5.5 5.5 5.25 5.5 6.3 4.3
7.5 6 6.9 6.9 7.5 7.5 7.5
cb B.W. T.W.

73.71
4.11
15

75.22 73.77
2.60 4.105
3.5 15
Gar. floor

74.99 73.7 73.3 73.5 72.4 74.1
2.83 4.1 4.5 4.3 5.4 3.7
22 7.5 7.5 7.5 7.5
drive B.W. T.W.

75.87 75.13
1.75 2.69
3.6 21
Gar drive
floor

77.82

Alley Blk. 16 Pt. Loma Hgts

			0.54	114.86	(114.82)
T.P.	11.55	115.40	1.20	103.85	
B.M. "A" P 64	8.16	105.05	1.51	96.89	(96.91)
T.P. # 1 P. 64	8.66	98.40	0.88	89.74	(89.72)
T.P.	9.55	90.62	4.81	81.07	(81.05)
T.P	1.58	85.88	2.75	84.30	
T.P.	8.96	87.05	1.72	78.09	
T.P.	7.07	79.81	3.33	72.74	Nail in Pole P 3675

2+88 = Nly edge Conc. gutter

2+85 { = Sly. cl. line Poc
= Wly cor. $2\frac{5}{}$ X $2\frac{5}{}$ drain clean. out. grate on

2+83 = Sly edge conc. gutter

2+82 $\frac{5}{}$ $7\frac{5}{}$ Lt. = B.C. $2\frac{5}{}$ Rad. cl. Rot.

2+81 $6\frac{9}{}$ Rt. = B.C. 4' Rad. cl. Rot.

&

71

Page 20 } Poc & Chatsworth. & do not check with B.M. on

These Elev. from F.B $\frac{1822}{28}$ Page 20 Book this

End cl. $7\frac{5}{}$ Lt. 0+00 P 66

Sly. B.P. Poc & Chatsworth

72.27	71.47	71.29	71.12	70.65	
3.80	4.60	4.78	4.95	5.42	
30	$7\frac{5}{}$		$7\frac{5}{}$	30	
73.06	72.12	72.23	71.32	71.14	70.87	71.70	70.41	71.36
3.01	3.95	3.84	4.75	4.93	5.20	4.37	5.66	4.71
30	30	10	10		$10\frac{9}{}$	$10\frac{9}{}$	30	30
cl	G	cl E.C.	G		G	cl E.C.	G	cl
	72.21	71.63	71.43	71.20	71.85			
	3.86	4.44	4.64	4.87	4.22			
	$7\frac{5}{}$	$7\frac{5}{}$		$7\frac{5}{}$	$7\frac{5}{}$			
	cl	G		G	cl			
	72.22	71.6						
	3.85	4.5						
	$7\frac{5}{}$	$7\frac{5}{}$						
	cl							
				71.16	71.86			
				4.91	4.21			
				$6\frac{9}{}$ top	$6\frac{9}{}$ cl			

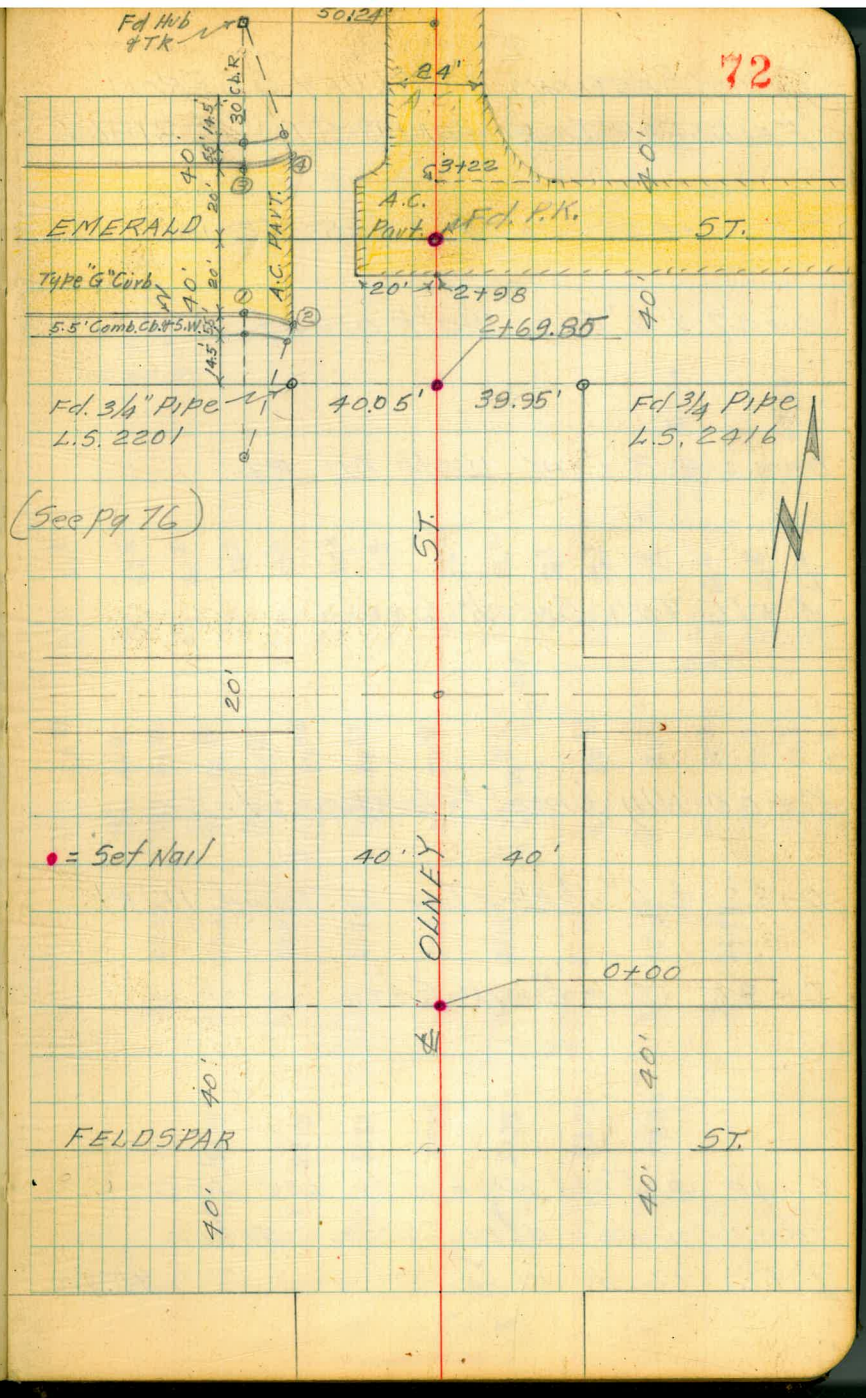
76.07 Catch basin

CROSS SECTIONS OF OLNEY ST. FELD SPAR TO EMERALD W.O. 31967 8-18-53

Stamper
Huffman
Sherry
Whipple

NOTE: Direct Reading Rod Used for these Elev's Only

Sta	Lip	Gut.	Cb	Bk. S.W.
B.M.				69.26
①	72.39	72.28	72.79	72.88
②	72.16	72.04	72.55	72.68
③	73.16	73.09	73.80	73.87
④	72.91	72.82	73.57	73.68



CROSS SECTIONS OF OLNEY ST. FROM FELDSPAR TO EMERALD ST. W.O. 31967

T.P. +8.56 70.74 -0.35 62.18

0+47 ℄ 2' Conc Walk on Lt.

0+44 ℄ 3' Conc Walk on Rt.

0+15 Top Break Sec

0+00 N'ly Line Feldspar St.

0-32 ℄ 6" Pepper Tree 10' Spread 15' Rt.

0-35 Top Bank Sec

0-40 ℄ Feldspar St. Toe Sec

TBM. 11.27 6.253 0.22 51.26

B.M. +6.38 51.48 45.10

8-19-53

73

Lt. ℄ Rt.

NOTE: Approx 20' of Oil Penetration Surface on Olney St. Feldspar To Emerald See Pg 36 for X-Secs Sly.

62.19
0.34
41.8
℄ Walk

62.28
0.25
32.6
End Walk

62.22
0.33
23.6
Top Walk

61.8	62.5	61.3	58.2	57.2	55.6	55.2	56.0	56.0	56.7	57.2	57.1	60.2	60.5	62.2
0.7	1.0	1.2	4.3	5.1	6.9	6.6	6.5	6.5	5.8	4.8	4.7	2.3	2.0	2.3
50	40	35	27	24	22	15	0	10	11	15	19	23	30	40
												Top		

Lots 1.7

60.23	60.13	59.93	56.43	55.23	54.23	54.53	54.43	54.33	54.83	56.1	56.7	58.8	59.2	58.9
2.2	2.4	2.6	6.1	6.6	8.3	8.0	8.1	8.2	7.7	6.4	5.8	3.7	3.6	3.6
50	40	37	28	24	23	15	0	10	14	16	19	22	40	50
					Cut			EP						

	53.33	53.03	52.43	51.83	51.53	51.53	51.23	55.23	55.83					
	2.2	9.5	10.1	10.7	11.0	11.0	9.3	7.3	6.7					
	50	40	26	23	0	8	16	40	50					
				EP.		EP.	BVR							
				(Oil)		(Oil)								

	52.43	52.13	51.53	51.23	51.33	53.93	54.23							
	10.1	10.4	11.0	11.3	11.2	8.6	8.3							
	50	40	23	0	8 EP.	40	50							

Set P.K. E. Side R.P. No 4598 S.W. Cor ℄ Olney & Feldspar N.W. B.R. Garnet & Olney

62.53

X-SEC'S OLNEY ST. CONT'D.

8-19-53

74

Lt. ℄ Rt.

1+00 2" Pipe 7' High 39' Rt.

0+98 ℄ Car Port 18' Wide on Lt. Gravel Base

0+92 ℄ 3" Pipe 7' High 39' Rt.

0+88 ℄ 3' Conc. Slab Porch Stoop on Lt.

0+84 ℄ 2" Pipe 5' High 39' Rt.

0+76 ℄ 2.5' Conc. Walk on Rt.

0+73 ℄ 2" Pipe 6' High 39' Rt

0+72 ℄ 3.5' Conc Walk on Lt.

0+65 End 2-Car Gar on Lt.

0+50 Sty Line 2-Car Gar on Lt.

70.74

62.2	62.8	63.4	62.8	62.3	62.8	63.2	64.1	63.6		
7.8	7.9	7.3	7.9	7.4	7.9	6.8	6.6	7.1		
53	40	22	19	0	15	19	40	50		
			Gut							
62.5										
7.9										
39.8										
62.88										
7.86										
39.8										
Top Conc Stab										
							63.70		63.43	
							7.09		7.31	
							30.4		40.4	
							Conc Walk		Top Walk	
62.47										
8.27										
39.6										
Top Walk										
62.83										
7.91										
41.2										
Conc Floor										
62.84	62.5	60.44	59.84	59.4	59.6	59.4	60.7	62.4	62.7	62.4
7.90	8.2	10.3	10.9	11.3	11.1	11.3	10.0	8.3	8.4	8.3
41.0	40	21	19	13	0	11	15	22	40	60
Conc Floor										

70.74

X-SEC'S OLNEY ST. CONTD.

1+45 Nly Line Alley Cor 3' Picket fence 40' Rt.

1+33 ℄ Alley Sec.

1+26 Top Sec

1+25 Toe Sec Sly Line Alley, ℄ Lateral Conc Blk Wall 4' High on Lt.

1+25 4' Lateral Picket fence 34' Rt.

1+23.5 ℄ P. Pole No P. 4624 22.1 Lt.

1+10 ℄ 3' Conc Slab Porch Stoop on Lt.

70.74

8-19-53

75.

	Lt			℄			Rt			
	67.2	67.4	67.5	67.8	67.7		67.8	67.0	67.0	67.5
	3.0	3.3	4.2	5.5	5.0		5.5	5.7	5.0	5.7	6.2
	50	40	23	18	0		8	17	24	40	50
				Cut.							

67.2	66.8	65.8	64.4	65.52	65.5	64.8	64.2	65.0	64.8	64.5
3.5	3.9	4.9	6.1	5.22	5.2	5.9	6.0	5.7	6.2	6.5
50	40	24	19	11	0	9	17	19	40	50
		Cut.		℄ M.H.						
				E. Rim						

67.0	66.2	65.2	63.8	64.1	64.2	64.5	64.1	64.8
3.7	4.1	5.4	6.7	5.8	6.5	5.8	6.1	6.6
50	40	22	19	0	16	23	40	50

67.12	63.0		64.6	63.4	64.4	64.2	64.4	64.8
3.32 T.W.	7.7		6.1	6.8	5.8	6.5	5.8	6.1	6.6
40	40		23	18	0	16	23	40	50
Top Wall	Covering								

7.55
50
Cov Walk

62.22
7.75
39.8
Conc Slab

70.74

X-SEC'S OLNEY ST. CONTD

2+47 ℄ 12" Tree 20' Spread 37.5' Lt.

2+16 ℄ 12" Tree With 20' Spread 37' Lt.

2+07 End 3' Woven Wire & Begin 4' Woven Wire 40' Lt.

TP. 8.47 77.73 - 1.48 69.26

2+00

1+68 Begin 3' Woven Wire fence 40' Lt.

1+65 ℄ 3.5 Conc Walk

1+56

70.74

8-19-53

	Lt.	℄	Rt

Top Prop Cor Pipe S.E. Cor Emerald & Olney Streets

70.1	70.2	69.2	66.2	67.3	66.3	67.2	66.2	67.2
0.3	0.5	1.5	3.8	3.4	4.1	3.6	3.8	3.6
50	40	23	20	0	19	24	40	50
			Cut					

69.3	69.6
1.43	1.66
49	39

68.2	67.8	66.7	65.4	64.8	65.4	65.1	64.5	65.2	65.2	65.2
2.4	2.9	4.0	5.3	4.9	5.3	5.6	5.2	4.8	5.9	5.5
50	40	22	19	0	8	17	20	26	40	50
						Cut				

70.74

X-SEC'S OLNEY ST. CONT'D.

8-19-53

77

Lt. ℄ Rt.

NOTE: For Curb Return Elev's

See Pg. 72

2+69.85 Sky Line Emerald End 3' Picket fence 40 Rt.
End 0' Woven Wire 40' Lt.

	73.4	73.2	73.5	69.7	69.3		69.1	69.2	69.3	69.0
	4.3	4.7	6.2	8.0	8.4		8.6	8.0	8.4	8.7
	50	40	23	21	0		17	19	40	50

2+67 ℄ 12" P.P. N= P-4645 20.3 Lt.

2+50

73.13										
	72.6	71.3	69.1		68.6	68.2	69.0	68.2	68.5	
4.6	5.1	6.4	8.6		9.1	9.4	8.7	9.0	9.2	
50	40	24	13		0	20	22	40	50	

77.73

77.73

8-19-53

X-SEC'S OLNEY ST. CONT'D.

Lt. ℄ Rt.

3+29.85 Nly Gut. Wly Proj. Emerald St.

3+22 Nly E.P. out Ely

3+09.85 ℄ Emerald St.

2+98 Sly Line A.C. Pavt. Olney St.
Sly E. Pavt. Ely Projection Emerald St.

2+89.85 Ely Proj. Sly Gutter Emerald St.

2+84.35 Ely Projection Sly Line Emerald St. Sidewalk

77.73

77.73

X-SEC'S OLNEY ST. CONT'D.

Sta	+	H.I.	−	Elev.	
B.M.			6.36	77.51	77.58
	8.38	83.87			
TP.			2.66	75.49	
	0.19	78.15			
TP.			11.95	77.96	
	1.75	89.91			
B.M.			1.75	88.16	88.28
	+12.64	89.91			
TP.			0.46	77.27	

3+49.85 N'ly Prop. Emerald St.

3+36 ℄ 4" Evergreen Tree 25.5' Rt.

3+35.35 N'ly Line W'ly Projec. B.S.Walk Emerald St.

77.73

8-19-53

Lt. ℄ Rt.

Reduced October 9, 1953 J. Birchall

N.W.B.P. Emerald & Noyes

Set P.K. N. Side Guy Pole S. Side Emerald & Approx 200' → W'ly ℄ Olney St.

E. Side
Set P.K. N° 4674 W. Side Olney Approx 200' N'ly of Emerald St.

S.E.F.H. Olney + Diamond St.

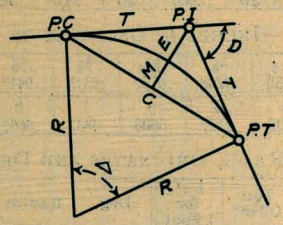
74^{1}	73^{4}	72^{4}	72^{8}	72^{2}	72^{6}	72^{4}	71^{3}	70^{6}
3.6	4.3	5.1	4.95	5.52	5.16	5.3	6.4	6.9
50	40	20	12	0	12	20	40	50
			E.P.		E.P. E.C.±			

74^{43}	73^{87}	73^{66}	73^{3}	72^{9}	72^{2}	71^{2}	71^{91}	71^{1}	70^{2}
3.30	3.86	4.07	4.4	4.8	5.50	6.00	5.82	6.6	7.1
75	50	41.6	40	39	12	0	14.6	40	50
S.W.	B.C.	S.W.			E.P.		E.P. P.O.C.		

⊼ 77.73

(faint crossed-out entries "4.3" and "20" between the third and fourth columns of the first row)

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES



CURVE FORMULAS

Radius=R=$\frac{50}{\text{sin. } D/2}$ (1) Degree of Curve=D and sin. $\frac{D}{2}=\frac{50}{R}$ (2)

Tangent=T=R tan $\frac{\Delta}{2}$ (3) Length of Curve=L=100$\frac{\Delta}{D}$ (4)

Middle ordinate=M=R(1—cos. $\frac{\Delta}{2}$) (5)=Rvers $\frac{\Delta}{2}$ (6)

External=E=T tan $\frac{\Delta}{4}$ (7)=R ÷ cos. $\frac{\Delta}{2}$—R (8)=R exsec $\frac{\Delta}{2}$ (9)

Long Chord=C=2 R sin. $\frac{\Delta}{2}$ (10) Δ=Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I.=Sta. 161+60.35 to find Sta. of P. C. and P. T. Δ=62° 10′ D=8° 20′. From Table IV for 1° curve T=3454.1 and ÷8⅓=414.49 ft. From Table V correction=.36 or T=414.85 ft. P. C.=Sta. P.I.—T=157 +45.50. Also from (4) L=746.00 and P. T.=Sta. P. C.+L=164+91.50.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft.=7.27 ft. Distance=158—Sta. P. C.=54.50, hence offset=7.27 $(54.50 \div 100)^2$=2.16 ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26)$=2.16 ft.

Deflections.—Deflection angle=½ D for 100 ft., ¼ D for 50 ft., etc. For c ft.=(in minutes) .3 x C x D° or=defl. for 1 ft. from Table III x C. For Sta. 158 of above curve=.3 x 54.5 x 8⅓=136.2′ or 2° 16.2′, or=2.50 x 54.5=136.2′ from Table III. For Sta. 159 deflection angle=2° 16.2′ +8° 20′ ÷2=6° 26.2′, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve E=960.6 for 8° 20′=960.6 ÷8⅓=115.27 and from Table V correction=.10 or E=115.37 ft. Or suppose Δ=32° and E is measured and found to be 42 ft. What is D? From Table IV E=230.9 and ÷42=5.5 or D=5° 30′.

Table I.—Minutes in Decimals of a Degree.

1′	.0167	11′	.1833	21′	.3500	31′	.5167	41′	.6833	51′	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

Table II.—Inches in Decimals of a Foot.

1/16	3/32	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729
1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

Table III.—Radii, Ordinates and Deflections.

Deg.	Radius	Mid. Ord.	Tan Offset	Def. for 1 Foot	Deg.	Radius	Mid. Ord.	Tan Offset	Def. for 1 Foot
0° 10′	34377.5	.036	.145	0.05′	7°	819.02	1.528	6.105	2.10′
20	17188.8	.073	.291	0.10	20	781.84	1.600	6.395	2.20
30	11459.2	.109	.436	0.15	30	764.49	1.637	6.540	2.25
40	8594.42	.145	.582	0.20	40	747.89	1.673	6.685	2.30
50	6875.55	.182	.727	0.25					
					8	716.78	1.746	6.976	2.40
1	5729.65	.218	.873	0.30	20	688.16	1.819	7.266	2.50
10	4911.15	.255	1.018	0.35	30	674.69	1.855	7.411	2.55
20	4297.28	.291	1.164	0.40	40	661.74	1.892	7.556	2.60
30	3819.83	.327	1.309	0.45					
40	3437.87	.364	1.454	0.50	9	637.28	1.965	7.846	2.70
50	3125.36	.400	1.600	0.55	20	614.56	2.037	8.136	2.80
					30	603.80	2.074	8.281	2.85
2	2864.93	.436	1.745	0.60	40	593.42	2.110	8.426	2.90
10	2644.58	.473	1.891	0.65					
20	2455.70	.509	2.036	0.70	10	573.69	2.183	8.716	3.00
30	2292.01	.545	2.181	0.75	30	546.44	2.292	9.150	3.15
40	2148.79	.582	2.327	0.80	11	521.67	2.402	9.585	3.30
50	2022.41	.618	2.472	0.85	30	499.06	2.511	10.02	3.45
					12	478.34	2.620	10.45	3.60
3	1910.08	.655	2.618	0.90	30	459.28	2.730	10.89	3.75
10	1809.57	.691	2.763	0.95	13	441.68	2.839	11.32	3.90
20	1719.12	.727	2.908	1.00	30	425.40	2.949	11.75	4.05
30	1637.28	.764	3.054	1.05	14	410.28	3.058	12.18	4.20
40	1562.88	.800	3.199	1.10	30	396.20	3.168	12.62	4.35
50	1494.95	.836	3.345	1.15					
					15	383.07	3.277	13.05	4.50
4	1432.69	.873	3.490	1.20	30	370.78	3.387	13.49	4.65
10	1375.40	.909	3.635	1.25	16	359.27	3.496	13.92	4.80
20	1322.53	.945	3.718	1.30	30	348.45	3.606	14.35	4.95
30	1273.57	.982	3.926	1.35	17	338.27	3.716	14.78	5.10
40	1228.11	1.018	4.071	1.40	18	319.62	3.935	15.64	5.40
50	1185.78	1.055	4.217	1.45	19	302.94	4.155	16.51	5.70
5	1146.28	1.091	4.362	1.50	20	287.94	4.374	17.37	6.00
10	1109.33	1.127	4.507	1.55	21	274.37	4.594	18.22	6.30
20	1074.68	1.164	4.653	1.60	22	262.04	4.814	19.08	6.60
30	1042.14	1.200	4.798	1.65	23	250.79	5.035	19.94	6.90
40	1011.51	1.237	4.943	1.70	24	240.49	5.255	20.79	7.20
50	982.64	1.273	5.088	1.75					
					25	231.01	5.476	21.64	7.50
6	955.37	1.309	5.234	1.80	26	222.27	5.697	22.50	7.80
10	929.57	1.346	5.379	1.85	27	214.18	5.918	23.35	8.10
20	905.13	1.382	5.524	1.90	28	206.68	6.139	24.19	8.40
30	881.95	1.418	5.669	1.95	29	199.70	6.360	25.04	8.70
40	859.92	1.455	5.814	2.00	30	193.18	6.583	25.88	9.00

Note. Chord Deflection=2 times tangent deflection.

Table IV.—Tangents and Externals to a 1° Curve.

Central Angle	Tangent	External	Central Angle	Tangent	External	Central Angle	Tangent	External
1°	50.00	.22	11°	551.70	26.50	21°	1061.9	97.57
10′	58.34	.30	10′	560.11	27.31	10′	1070.6	99.16
20	66.67	.39	20	568.53	28.14	20	1079.2	100.75
30	75.01	.49	30	576.95	28.97	30	1087.8	102.35
40	83.34	.61	40	585.36	29.82	40	1096.4	103.97
50	91.68	.73	50	593.79	30.68	50	1105.1	105.60
2	100.01	.87	12	602.21	31.56	22	1113.7	107.24
10	108.35	1.02	10	610.64	32.45	10	1122.4	108.90
20	116.68	1.19	20	619.07	33.35	20	1131.0	110.57
30	125.02	1.36	30	627.50	34.26	30	1139.7	112.25
40	133.36	1.55	40	635.93	35.18	40	1148.4	113.95
50	141.70	1.75	50	644.37	36.12	50	1157.0	115.66
3	150.04	1.96	13	652.81	37.07	23	1165.7	117.38
10	158.38	2.19	10	661.25	38.03	10	1174.4	119.12
20	166.72	2.43	20	669.70	39.01	20	1183.1	120.87
30	175.06	2.67	30	678.15	39.99	30	1191.8	122.63
40	183.40	2.93	40	686.60	40.99	40	1200.5	124.41
50	191.74	3.21	50	695.06	42.00	50	1209.2	126.20
4	200.08	3.49	14	703.51	43.03	24	1217.9	128.00
10	208.43	3.79	10	711.97	44.07	10	1226.6	129.82
20	216.77	4.10	20	720.44	45.12	20	1235.3	131.65
30	225.12	4.42	30	728.90	46.18	30	1244.0	133.50
40	233.47	4.76	40	737.37	47.25	40	1252.8	135.35
50	241.81	5.10	50	745.85	48.34	50	1261.5	137.23
5	250.16	5.46	15	754.32	49.44	25	1270.2	139.11
10	258.51	5.83	10	762.80	50.55	10	1279.0	141.01
20	266.86	6.21	20	771.29	51.68	20	1287.7	142.93
30	275.21	6.61	30	779.77	52.89	30	1296.5	144.85
40	283.57	7.01	40	788.26	53.97	40	1305.3	146.79
50	291.92	7.43	50	796.75	55.13	50	1314.0	148.75
6	300.28	7.86	16	805.25	56.31	26	1322.8	150.71
10	308.64	8.31	10	813.75	57.50	10	1331.6	152.69
20	316.99	8.76	20	822.25	58.70	20	1340.4	154.69
30	325.35	9.23	30	830.76	59.91	30	1349.2	156.70
40	333.71	9.71	40	839.27	61.14	40	1358.0	158.72
50	342.08	10.20	50	847.78	62.38	50	1366.8	160.76
7	350.44	10.71	17	856.30	63.63	27	1375.6	162.81
10	358.81	11.22	10	864.82	64.90	10	1384.4	164.86
20	367.17	11.75	20	873.35	66.18	20	1393.2	166.95
30	375.54	12.29	30	881.88	67.47	30	1402.0	169.04
40	383.91	12.85	40	890.41	68.77	40	1410.9	171.15
50	392.28	13.41	50	898.95	70.09	50	1419.7	173.27
8	400.66	13.99	18	907.49	71.42	28	1428.6	175.41
10	409.03	14.58	10	916.03	72.76	10	1437.4	177.55
20	417.41	15.18	20	924.58	74.12	20	1446.3	179.72
30	425.79	15.80	30	933.13	75.49	30	1455.1	181.89
40	434.17	16.43	40	941.69	76.86	40	1464.0	184.08
50	442.55	17.07	50	950.25	78.26	50	1472.9	186.29
9	450.93	17.72	19	958.81	79.67	29	1481.8	188.51
10	459.32	18.38	10	967.38	81.09	10	1490.7	190.74
20	467.71	19.06	20	975.96	82.53	20	1499.6	192.99
30	476.10	19.75	30	984.53	83.97	30	1508.5	195.25
40	484.49	20.45	40	993.12	85.43	40	1517.4	197.53
50	492.88	21.16	50	1001.7	86.90	50	1526.3	199.82
10	501.28	21.89	20	1010.3	88.39	30	1535.3	202.12
10	509.68	22.62	10	1018.9	89.89	10	1544.2	204.44
20	518.08	23.38	20	1027.5	91.40	20	1553.1	206.77
30	526.48	24.14	30	1036.1	92.92	30	1562.1	209.12
40	534.89	24.91	40	1044.7	94.46	40	1571.0	211.48
50	543.29	25.70	50	1053.3	96.01	50	1580.0	213.86

60.98

48
25
23

41.81

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9+(20—16)÷2 or 2 ft. added to 41.9 =47.9. For slopes of 1 on 1 see inside of front cover.