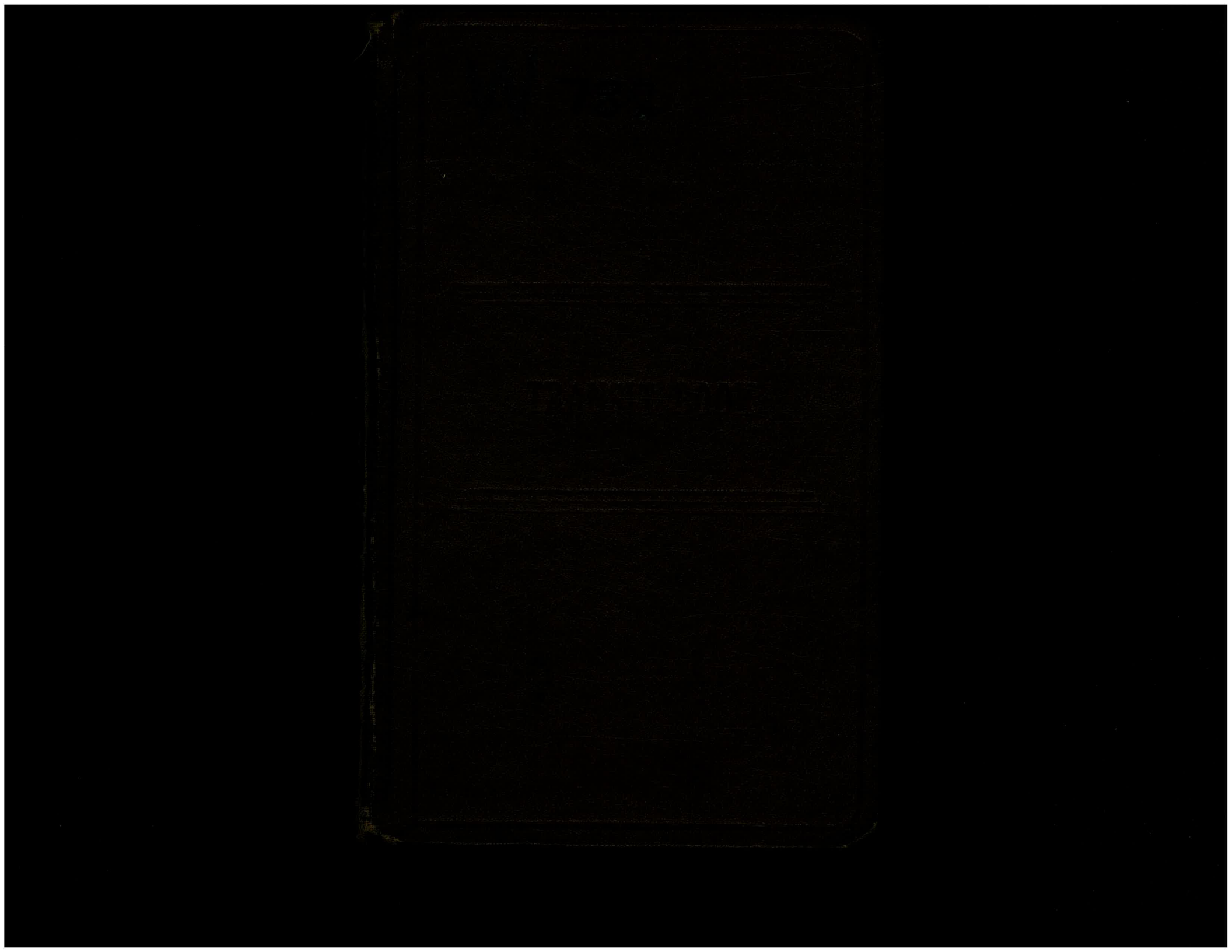
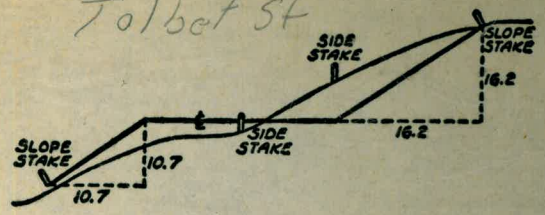


782

Talbot St



Distances from Side Stakes for Cross-Sectioning

Slope 1 to 1. Roadway of Any Width

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	03	.06	09	13	16	19	.22	.25	.28	.31	.34	38	42	.46
15°	04	10	14	19	24	.29	.34	.39	45	.51	.53	58	.63	.68
20°	06	.13	19	.26	.32	.39	.45	.51	.58	.65	.72	79	.84	.90
25°	.08	16	24	.33	40	49	.58	67	.75	.83	90	.99	1.06	1.14
30°	10	19	.29	39	49	.59	.69	79	.89	.99	1.09	1.20	1.29	1.39
35°	11	22	.34	47	.58	.69	.70	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	15	.30	44	60	76	91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	19	38	.57	76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	23	46	.69	.93	1.16	1 40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	25	.51	76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	30	.61	.91	1.22	1.53	1.84	2.15	2.46	2 78	3.10	3.44	3.78	4.12	4.46
85°	33	66	1.00	1.33	1.68	2.02	2.36	2 70	3.05	3.40	3.77	4.14	4.55	4 89
90°	36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	39	79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4 76	5.31	5 86	6.43	7 01	7 60
120°	62	1.25	1 93	2.52	3.16	3.81	4 45	5.11	5.77	6 44	7 12	7.80	8.50	9 22

FOR EXTERNALS ADD

Central Angle	Degree of Curve													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	036	.046	.056	.065	.074	.083	.093	.106	120	127	135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.985	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

Profile Byine Line 1-23

Meter Boxes - Westland - Juniper - Ivy 24

M-Day Bridge P.L. Loc. #5 in Field - 11-7-57 ✓ 25

Meter Boxes - Common, Wealth - Laurel - Juniper alice 26 ✓

Alvarado Filter Plant sludge Line alice 27—33 ✓

Slope Stakes for Alvarado Sludge Basins alice 34—38 ✓

Alvarado " " #, 12" Suction 12" Overflow Lines Stake Dike alice 39 ✓

Check on 12" Steel SLUDGE Line as Layed 40-41

Final X-Sects of Excav. SLUDGE BASINS 42-44

Final X-Sects of EMBT " " 44-51

Property Line - Nor. Side Alvarado " " alice 52. ✓

Proposed Fence Alvarado SLUDGE BASINS alice ✓ 53

Prop. Cor's Set Trojan Pipeline & Alvarado Freeway ✓ 55

Alvarado Sludge Basins - Profile Along Proposed Fence alice 56-62

" " " " of Dykes 63-65

Property Line - Northerly side Alvarado SLUDGE BASINS - Monumented cor 66 ✓

Trojan Ave Pipeline, Elev. Top of pipe, Alvarado Freeway Crossing alice 67

Profile 21" Brine Line

From Alvarado Filter Plant - From Sta. 6+54.80

B.M.	1.69	494.37			492.68
T.P.	0.72	482.43	12.66	481.71	
T.P.	3.90	474.99	11.14	471.29	
6+54.20			3.9	471.1	Reduced by W.R. 9/1/49
6+54.70			3.8	471.2	
6+58			3.1	471.9	
6+64			4.7	470.3	
~~6+84~~					
6+85			8.3	466.7	
6+90			12.0	463.0	
7+00			14.2	460.8	
7+08			13.9	461.1	
7+12			10.6	464.4	
7+27			6.6	468.4	
7+32			4.1	470.9	
7+42			2.8	472.2	
7+44			1.9	473.1	
T.P.	12.90	487.46	0.43	474.56	

King - West - Shipman

8-11-49

1.

Conc. Mon. Set by Leonard 50' Lt. Sta. 7+65.80

Top 21" Brine Line ground

		487.46 ✓		
7+50			10.3	477.2
7+63			1.8	485.7
△ P.O.C. 7+65.80			1.9	485.6
0.1-7'			1.5	486.0
8+00			3.3	484.2
T.P	0.66	484.74 ✓	3.38	484.08 ✓
8+50			2.7	482.0
E.C. 8+93.64			5.1	479.6
9+00			5.4	479.3
Culv.				

2.

	Lt.	Rt.
	3.0 / 5.7 0:1	3.5 / 4' Berm — 11.0 / 14' ON Slope
	2.6 / 6' 0:1	2.8 / 4' — 9.7 / 14'
	4.8 / 6.3	5.2 / 5' — 12.0 / 14'
	5.1 / 6.3	5.5 / 5.0 — 11.7 / 14.0
	476.0 / 8.7 F.L.	11.2 / 473.5 F.L.

		484.74			El.
9+50				8.0	476.7
T.P.	0.45	474.94 ✓	10.25	474.49 ✓	
10+00			0.8	474.1	
10+50			3.5	471.4	
11+00			6.6	468.3	
11+50			9.3	465.6	
T.P.	0.99	463.81 ✓	12.12	462.82 ✓	
12+00			1.3	462.5	
B.C. 12+47.49			4.1	459.7	
12+50			4.4	459.4	

Lt.	Rt.	
1.4 / 6° 0.1	8.5 / 5.5 Berm	15' / 15' on slope.
0.4 / 5.6' 0.1	0.5 / 5.0	6.4 / 14'
3.3 / 5.6'	3.7 / 5.5'	9.1 / 14'
6.2 / 5.3'	6.5 / 5.0	12.2 / 14'
9.2 / 5.3'	9.4 / 6'	15.1 / 14
1.0 / 6.0	1.2 / 5.0	7.5 / 14'
3.9 / 6.0	4.2 / 5'	10.1' / 14
4' / 6.0	4.3 / 5'	10.4 / 14'

		463.81 ✓			
13+00			7.5	456.3	
13+58			10.4	453.4	
B.M.	1.38	452.76 ✓	12.46	451.35 ✓	451.38 ✓
14+00			2.4	450.4	
Culv.					
14+50			5.7	447.1	
E.C. 14+64.23			6.4	446.4	
15+00			8.8	444.0	
T.P.	0.94	442.34 ✓	11.36	441.40 ✓	
15+50			1.4	440.9	

Top Wall-Lt. 13+60

7.1 / 6±	0.1	7.5 / 5.5 Berm 13.9 / 14' 6H Slope
10.0 / 59		10.4 / 5.5 16.5 / 14'
2.1 / 6'		2.4 / 5' 8.4 / 14'
F.L. 4.6		8.4 / F.L.
5.1 / 5'		6.0 / 6' 12' / 14'
5.9 / 5		6.6 / 6 12.8 / 14'
8.2 / 6'		9.2 / 4' 15.3 / 14'
0.8 / 67		1.5 / 2' 8' / 14'

		442.34 ✓		
B.C. 15+64.74			2.5	439.8
16+00			4.3	438.0
16+50			7.2	435.1
T.P. [illegible]02	3.38	435.25 ✓	10.47	431.87 ✓
17+00			3.4	431.9
17+50			6.1	429.2
EC 17+86.21 18+00			8.1	427.2
18+00			8.8	426.5
T.P.	1.80	425.79 ✓	11.26	423.99 ✓

Oil	Berm	Slope
	2.8 / 5.6 Berm	9.9 / 14' ON Slope
1.7 / 6.6 0.1		
3.9 / 6.4	4.6 / 5.0	11.4 / 15'
6.7 / 6.9	5.4 / 6'	15.5 / 17'
3.0 / 6	3.7 / 6.5	7.8 / 14
5.9 / 6	6.8 / 5	Bottom 15.3 / 20
7.8 / 6	8. / 5	
8.5 / 6	9.1 / 5	16.4 / 20

			425.79 ✓					
18+50			2.3	423.5		1.8/6	2.5/4	7.7/12
19+00			5.4	420.4		5.0/5.5	6.1/5	10.9/15
Culvert			LT 8.8 RT	417.0				
19+50			8.4	417.4		8.0/6	8.6/5	11.8/10
20+00 04			11.7	414.1		11.0/6	12.3/10	13.7/14
T.P	0.64	413.60 ✓	12.83	412.96 ✓				
20+50			1.5	412.1		3.0/6	2.6/6	Bottom 4.0/8 — 2.3/10
21+00			5.5	408.1		5.0/9	5.6/2	Bottom 6.9/6 — 3.8/9
21+50			7.9	405.7		9.4/9	8.3/3	Bottom 9.3/9 — 7.9/17

		413.60 ✓		
22+00			9.9	403.7
22+50			11.8	401.8
L 22+80			12.9	400.7
T.P.	2.88	403.85 ✓	12.63	400.97 ✓
23+00			3.4	400.5
△23+48.82			4.5	399.4
23+50			4.6	399.3
23+88			5.2	398.7
24+06			5.6	398.3

O.L	Berm		
		Bottom	
9.3 / 9	9.8 / 3	11.2 / 10	8.9 / 20
		Bottom	
11.2 / 10	10.9 / 8	14.5 / 12	
12.3 / 10			

		40385 ✓			
24+18			6.2	397.7	Edge 0.1
24+50			8.1	395.8	
24+54			8.5	395.4	Edge 0.1
24+88			10.2	393.7	
25+00			10.6	393.3	
25+50			11.6	392.3	12.5 / 16 0.1 ; 12.8 / 9' ; 10.7 / 4' ; 13.0 / 10'
T.P.	3.45	39423 ✓	13.07	390.78 ✓	
26+00			4.4	389.8	4.7 / 16 0.1 ; 4.9 / 8 ; 3.3 / 2 ; 5.0 / 10
26+50			6.9	387.3	6.6 / 26 ; 7.0 / 7' ; 6.0 / 2 ; 7.5 / 10
27+00			9.1	385.1	

		394.23 ✓			
27+50			10.7	383.5	
B.M.	3.67'	386.69 ✓	11.19	383.04 ✓	383.02 B.M. X on wheel guard N.W. Cor bridge
28+00			3.5	383.2	
28+50			5.1	381.6	
28+62			5.4	381.3	
28+69			10.6	376.1	
28+74			11.9	374.8	creek
29+00			12.0	374.7	
29+10			7.2	379.5	
△29+32			7.3	379.4	

			386.69 ✓		
2	29+50			7.3	379.4
B	29+75			4.9	381.8
2	30+00			4.7	382.0
				4.4	
2	30+50			3.9	382.8
2	30+58.21			3.6	383.1
2	31+00			1.8	384.9
2	T.P.	12.85	399.54 ✓	0.00	386.69 ✓
	31+43.48			11.0	388.5
2	31+50			10.5	389.0
	32+00			6.7	392.8

4.4 / 85 0.1

3.4 / 55 0.1

1.3 / 60.1

10.6 / 55 0.1

10.0 / 55

62 / 55

		399.54 ✓		
32+50			2.7	396.8
T.P.	13.07	412.23 ✓	0.38	399.16 ✓
33+00			11.5	400.7
B.C. 33+28.80			9.1	403.1
35+50			7.3	404.9
34+00				
34+00			3.4	408.8
T.P.	12.90	424.78 ✓	0.35	411.88 ✓
34+50			11.8	413.0
35+00			8.3	416.5
E.C. 35+09.91			7.5	417.3

$\frac{2.2}{5\frac{3}{4}}$ 0.1

$\frac{11.8}{5\frac{3}{4}}$ 0.1

$\frac{8.7}{5\frac{3}{4}}$ 0.1

$\frac{6.9}{5\frac{3}{4}}$ 0.1

$\frac{3.0}{5\frac{3}{4}}$

$\frac{11.9}{4\frac{4}{4}}$ 0.1

$\frac{7.9}{4\frac{7}{8}}$

$\frac{7.2}{4\frac{8}{8}}$

		424.78 ✓		
35+50			4.5	420.3
36+00			1.0	423.8
T.P.	12.15	436.59 ✓	0.34	424.44 ✓
36+50			8.9	427.7
37+00			4.8	431.8
BC 37+12			3.9	432.7
37+50			1.4	435.2
T.P.	12.75	448.85	0.39	436.20 ✓
38+00			10.1	438.9
EC 38+23			8.5	440.5

$\frac{4.3}{4.5}$ 0.1

$\frac{0.5}{4.5}$ 0.1

$\frac{BC}{4.5}$ 0.1

$\frac{5.0}{5.5}$

$\frac{4.2}{5.5}$

$\frac{1.5}{6.2}$

$\frac{9.9}{5.2}$

$\frac{8.2}{5.5}$

448.95 ✓

38+50			6.3	442.7
39+00			2.6	446.4
T.P.	12.62	461.26 ✓	0.3	448.64 ✓
39+50			11.0	450.3
40+64			7.4	453.9
40+39.27			4.2	457.1
40+50			3.6	457.7
41+00			0.5	460.8
T.P.	11.55	471.17 ✓	1.64	459.62 ✓
Top F.H.			6.48	464.69 ✓
41+50			8.1	463.1

464.67

$\frac{6^0}{4.8}$ 0.1

$\frac{2.1}{5.2}$ 0.1

$\frac{10.7}{4.8}$

$\frac{7.4}{5.2}$

Saran ac 470 M BR. 700

		471.17 ✓		
42+00			5.5	465.7
42+50			3.0	468.2
Sewer M.H.-E.Edge	Grade		1.19	469.98 ✓
42+85	F.L.		10.1	461.1
9.9S. M.H.			1.58	469.6
T.P.	9.14	479.12 ✓	1.19	469.98 ✓
			10.1	
43+00			8.4	470.7
43+50			6.0	473.1
44			4.7	474.4 / 474.3
44+50			4.9	474.2
S.M.H.			4.38	474.7
F.L.			19.5	459.6

Mohawk & 70th

		479.12 ✓		
45+00			5.9	473.2
Top Fill	0.50	476.49 ✓	3.13	475.99 ✓
			19.2	
45+50			4.6	471.9
46+00			5.9	470.6
S.M.H.				
All at 46+60			7.37	469.12
F.L.			20.97	455.52
46+50			7.3	469.2
gas M.H.			7.7	468.8
47+00			8.9	467.6
47+50			10.3	466.2

Mohawk 470

		476.49 ✓		
48+00			11.7	464.8
T.P.	2.24	467.61 ✓	11.12	465.37 ✓
48+22			3.4	464.2
S.M.H. #1 48+25			3.45	464.16
F.L.			12.25	455.36
S.M.H. @ ELCAJON			2.75	464.9
48+50			2.7	464.9
B.P. S.W.			3.46	464.15 ✓
48+96			3.3	464.3
49+00			3.3	464.3
49+50			3.5	464.1

B.P. S.W. COR 70TH & EL CAJON 464.156

		467.61 ✓			Rt.
52+00			4.3	463.3	4.3 / 5'0.1
50+50			5.1	462.5	4.9 / 5'
S.M.H. 50+59			4.91	462.70	
F.L.			13.81	453.80	
gas M.H.			4.79	462.82	
50+54			8.49	459.12	Top 8" H. Pressure gas
51+00			6.1	461.5	5.8 / 5.0
51+50			7.3	460.3	7.1 / 4.8
52+06			8.2	459.4	8.1 / 0.4
Δ 52+37			8.2	459.4	
gas M.H. 52+38			8.17	459.4	
			9.67	457.9	Top gas Pipe
S.M.H. # 1			8.21	459.40	
52+17			14.21	453.4	F.L. Sewer ✓

Note: See BK. 791 - Reloc. 52+15 - 0X1

℄ Amherst		467.61 ✓		
S.M.H.			7.74	459.87	℄
F.L.			14.54	453.07	
Top 12" Conc. Pipe			8.6	459.0	East End
" 12" "			9.0	458.6	West End
52+50			7.7	459.9	
53+00			7.1	460.5	
T.P	10.24	470.84 ✓	7.01	460.60 ✓	
53+50			9.6	461.2	
54+00			8.8	462.0	
54+50			7.7	463.1	
55+00			6.6	464.2	

	470.84 ✓		
55+50		5.7	465.1
56+00		4.9	465.9
56+50		4.4	466.4
57+00		4.1	466.7
57+58		4.6	466.2
58+00		5.5	465.3
△ 58+35 22		6.2	464.6
Sewer M.H. 58+45		6.74	464.10
F.L.		20.14	450.70
58+58		6.7	464.1
59+00		7.9	462.9

			47084 ✓		
5	T.P	2.69	46490 ✓	8.63	462.21 ✓
	59+50			3.1	461.8
	60+00			3.9	461.0
	60+50			4.5	460.4
	61+00			5.1	459.8
	61+50			5.7	459.2
	62+00			5.9	459.0
	62+50			6.1	458.8
	Sewer mh. ~~63+00~~			6.29	458.61
	F.L.			16.69	448.21
	63+00			6.1	458.8

		464.90 ✓		
63+50			6.1	458.8
64+00			6.3	458.6
T.P.	4.05	462.54 ✓	6.41	458.49 ✓
64+50			4.1	458.4
65+00			4.2	458.3
65+50			4.1	458.4
66+00			4.3	458.2
66+50			4.5	458.0
67+00			4.6	457.9
67+50			4.8	457.7

454.53

		462.54 ✓		
68+00			5.1	457.4
S.M.H. 68+41			5.52	457.02
F.L.			16.92	445.62
68+50			5.4	457.1
69+00			5.6	456.9
69+50			5.9	456.6
T.P.	2.13	458.23 ✓	6.44	456.10 ✓
70+00			2.0	456.2
70+50			2.6	455.6
71+00			3.3	454.9
71+50			3.8	454.4

Tower 54

	458.23 ✓		
72+00		4.4	453.8
72+50		5.0	453.2
Sm.Hd 72+78		5.30	452.9
F.L.		14.20	444.03
73+00		5.5	452.7
73+50		6.2	452.0
74+00		6.9	451.3
74+50		7.4	450.6
△74+94 12		8.3	449.9
Sm.Hd.		10.60	447.6
F.L.		15.60	442.63
B.M.		3.78	5445 ✓

431.5' So. to M.H. ok

Top F.H. Lt. Sta. 73+65 454.53

Meter Boxes
Westland St. - Juniper-Ivy

4+00	258.5	2.14 IN	256.4		
4+40		3.80 IN	254.7	254.0	~~5.7~~
4+80		5.5	253.0	52.1	4.7
5+20		8.1	250.4	50.6	3.8
5+60		11.3	247.2	48.7	2.3
5+84		9.0	249.5	47.2	1.6

11-21-50
King
Baker
West

37 - 1.5 = 2.2
34 - 2.2 = 1.6

25550
25604
C 4x8
C 5x0

54.5
54.7

16" CIP & 20" Conc. Pipe

New Alignment - Midway Drive Bridge - As put in Field

187+85.29 — 22° 30' Lt

187+47.49 AH. =
187+51.89 BK. — 22° 30' Rt

181+31.76 AHD. = EQ. (Reducer) EWE.
181+41.95 BK.

181+37.95 EWE
~~181+27.76~~ — 30° Rt

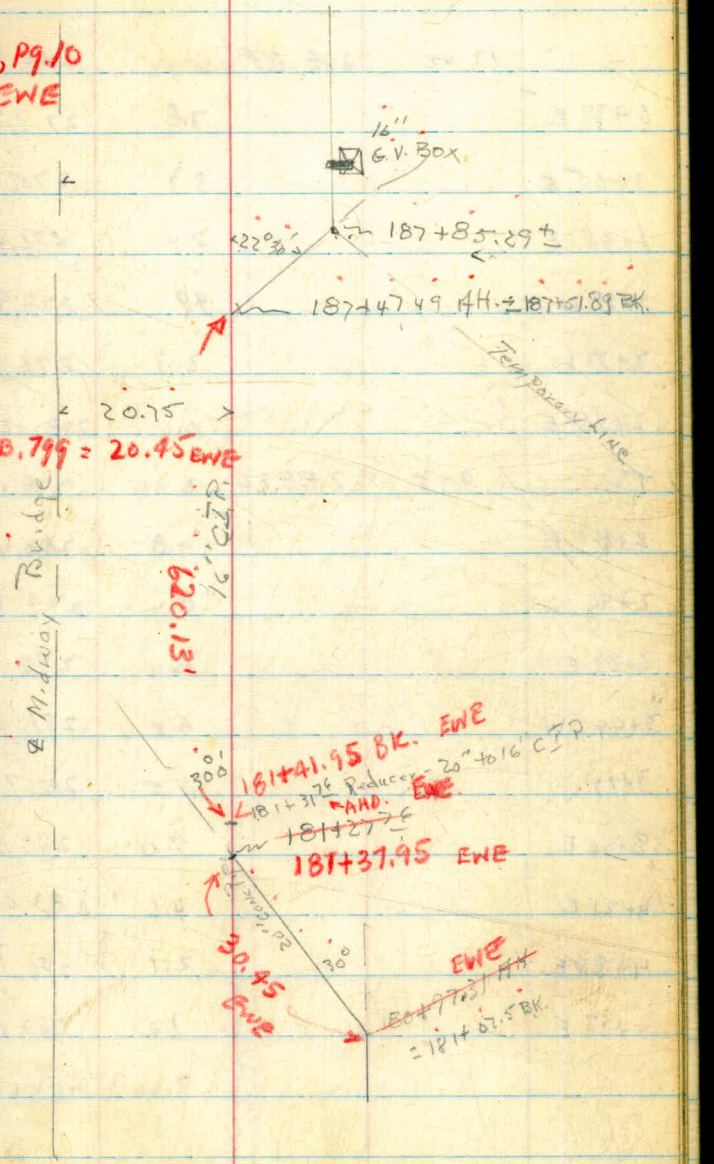
EWE
~~180+97.31 AH~~ — 30° Lt
= 181+07.5 BK

11-7-30

25

King, Baker, Wood

See FB 799, Pg. 10
EWE



Meter Boxes
Commonwealth Juniper-Laurel

11-21-50
King
Wright
Baker 4

	12.42	278.85		266.43		B.P. S.W. Cor. Commonwealth & Juniper
0+33 E.			7.8	271.05	69.2	C1 9
1+05 E			3.7	275.1	72.3	C2 8
1+48 E			2.4	276.4	74.0	C2 4
1+39 W			4.9	273.9	73.3	CO 6
2+33 W			2.3	276.5	77.2	FO 7
2+38 E			0.6	278.2	77.8	CO 11
T.P.	9.75	288.20	0.40	278.45		
2+89 E			7.8	280.4	80.0	CO 4
2+94 W.			8.4	279.8	79.8	CO 9
3+39 E.			6.0	282.2	81.7	CO 5
3+49 W			6.4	281.8	81.9	FO 1
3+73 W.			5.5	282.7	82.6	CO 1
3+74 E			5.0	283.2	82.9	CO 3
4+21 E			4.6	283.6	83.9	FO 3
4+88 E			2.1	286.1	84.9	C1 2
5+23 E			1.2	287.0	85.7	C1 8
			3.66	284.60	284.6	check Sa. & Par. Level

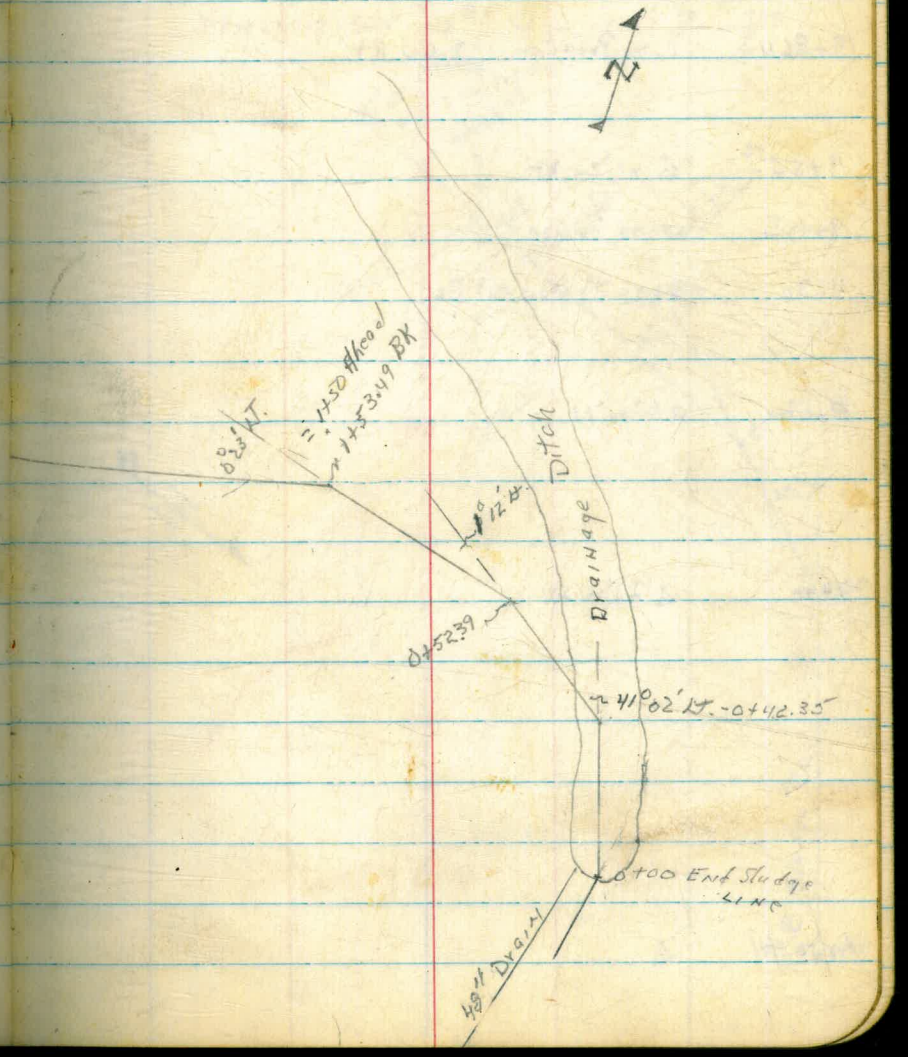
Sludge P.L. Alignment
Alvarado Filter Plant.

King
Baker
West

12-26-52

27

= 1450 Ahd.	
1+53.49 BK	0°23' Lt.
0+52.39	1°12' Lt.
0+42.35	41°02' Lt.
0+00	End Sludge Line



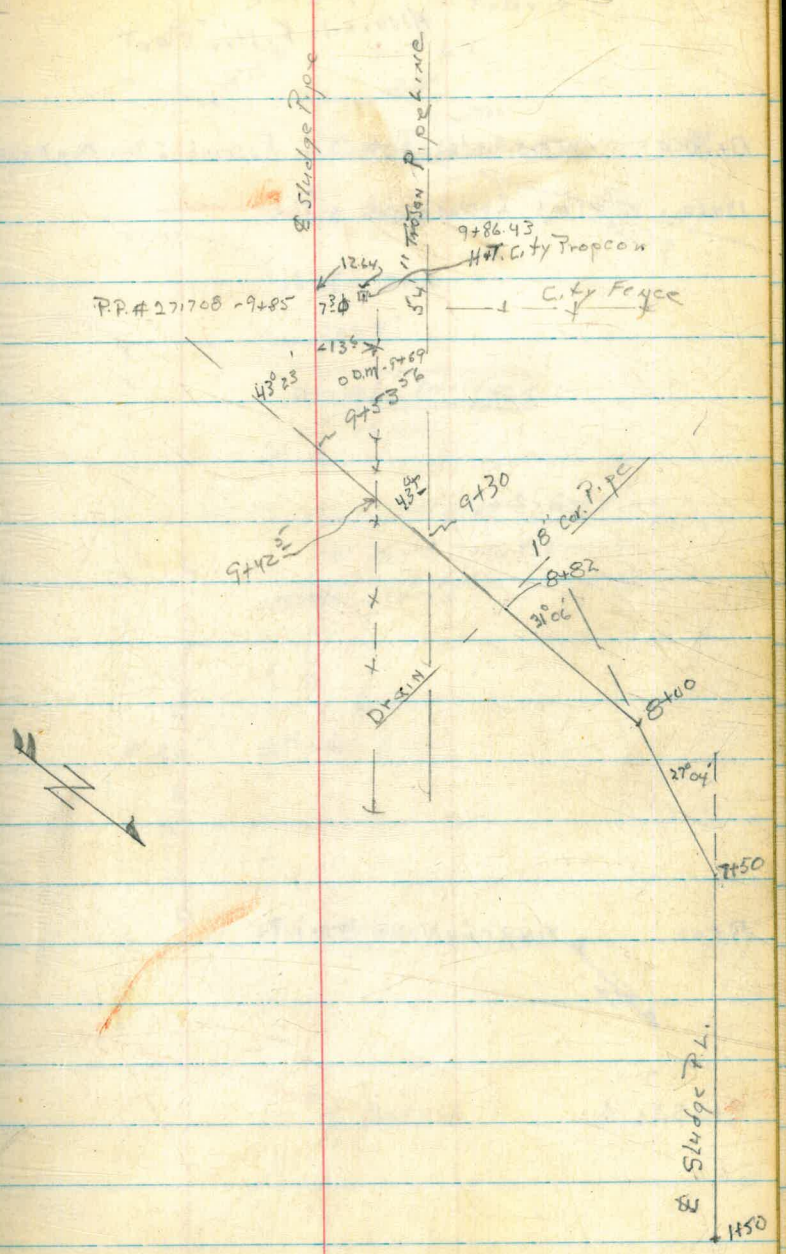
Sludge P.2.
Alvarado Filter Plant

9+86.43	City Prop Cor. 12.64 Rt.
9+53.5±	Δ 43°23' Rt
9+42.5±	X ing Fence
9+30	X ing Trojan 54" P.L
8+00	Δ 31°06' Lt
7+50	Δ 27°04 Lt
1+50 H/L.	Δ

King Baker West

12-26-50

28



Sludgeline
Alvarado Filter Plant

13+78.60 Inters. with west Line Rancho S. Div. Map #2134

13+60 X'ING Lamesa Irrig. P.L.

12+00 X'ING - Lamesa Irrig. P.L.

9+53.36 △

King
Baker
West

12-27-50

29

14+00 - Approx. over Trojan 54" P.L.

LOT 67

59°19'30"

13+78.60

Irgn. P. pipeTap

9.19

13+79 P.P. # 271710 - 11' Rt.

Sec. 14

Sec. 13

13+60

6³ - 3' 13+00

12+41

Gravel Driveway

12+22

12+13 - Gas X'ING

<93° P.P. 12+10 # 271709

<3' 46' 12+00

Sludge Line

Lamesa Irr. P.L.

∠ 20°

Delaware St.

Pol.

0.1

<25° 6' 11+00

<12' 10+00

16'

9+53.36

Profile (4') & ℄
Sludge Line
Alvarado Filter Plant
Cont From BK 803 Page 70

12-27-50

King
Baker &
West

31

T.B.M.	11.55	522.88			511.33	
8+00 (4)			9.9	513.0	510.75	2.3
℄			12.8	510.1		
8+50 (4)			9.8	513.1	510.5	2.6
℄			12.5	510.4		
8+73 ℄			8.3	514.6	510.25	
8+82			10.0	512.9		Top 18" P. pe - 10' Rt.
9+00 (4)			6.9	516.0	510.0	C.6.0
℄			7.1	515.8		
9+53 ℄ & (4)			6.7	516.2		See Next Page
(4) BK			6.1	516.8	509.75	
(4) AH.			6.2	516.7	509.75	
10+00			6.2	516.7		
℄			7.9	515.0		
			8.90	513.98	514.0	Top G.V. chamber Trojan, P. L. 1485
10+50 (4)			7.3	515.6	509.5	
℄			7.6	515.3		
11+00 (4)			8.3	514.6	509.25	
℄			8.7	514.2		

Profile (4) & ℄ - Sludge P.L.
Alvarado P.L.

522.88

King
Baker T
West

11+50 (4)			9.2	513.7	509.0
℄			9.3	513.6	
12+00 (5)			9.6	513.3	508.75
℄			9.6	513.3	
12+50 (6)			10.6	512.3	508.50
℄			10.5	512.4	
13+00 (7)			12.5	510.4	508.25
℄			12.5	510.4	
13+50 (8)			14.7	508.2	508.0
℄			14.9	508.0	
14+00 (9)			16.7	506.2	507.75
℄			16.8	506.1	
T.B.M.			8.90	515.98	514.0
	New line				
T.B.M.	2.97	516.97			514.0
9+42.4			0.5	516.5	509.8
10+00			3.4	513.6	509.5
+50			5.6	511.4	508.2
11+00			7.3	509.7	508.0

S.E. cor G.V. Box 1+05 Trojan P.L.

C 6 ℄
C 4 ℄
C 3 ℄
C 1 ℄

517
181
498.9

Sludge Line (4)

King West 1-18-51

BM.	1.03	362.48		361.45 367.57		Pg. 13 Bk 803
SET			6.92	355.56 361.68		
	6.58	362.14		355.56		
CK BM			0.70	361.44		
		516.97				
11+50 in			6.7	510.3	507.8	C 2.5
12+00 in					507.6	
+50 in						
13+00			7.5	509.5	507.0	C 2.5
13+50			9.1	507.9	504.8	C 3.1
14+00			10.8	506.2	502.4	C 3.8
+50			13.2	503.8	500.0	C 3.8
15+00			18.1	498.9	498.5	C 0.4
CK.			2.98	513.99	514.0	

Slope Stakes For Dikes of Alvarado Sludge Basins

JAN. 23, 1951
BEATTY
LEONARD
WELKER

1 BM	10.03	362.48		361.45 (City Datum)
SET BM	6.58	362.14	6.92	355.56
			0.70	361.44
CK BM.				
BM.	10.03	371.48		361.45

0+00 (Begin Southerly end of Dike No 1)
254' RT 5+15

+50

1+00

+50

2+00

+30 73 B.C. 84' RT - 3+59 ℄

+53 94

Co. BM on 90' RPPI HUB
See Book 803 pg 13
- chis □ on Easterly END of Conc. Hdwll of Culvert

CK Orig BM

2.5 / 4.0 — 2.4 × — 369 — 2.5 / 4.0

(F2 / 3.2) — 4.6 / 7.2 — 4.3 × — 367.5 — 4.0 / 7.0 — (F1.5 / 3.0)

(F3.6 / 5.4) — 6.1 / 9.4 — 6.1 × — 365.4 — 6.1 / 11.2 — (F3.6 / 7.2)

(F5.4 / 8.1) — 7.9 / 12.1 — 8.2 × — 363.0 — 8.5 / 16.0 — (F6.0 / 12.0)

(F7.8 / 11.7) — 10.3 / 15.7 — 10.3 × — 361.4 — 10.3 / 19.6 — (F7.8 / 15.6)

RT — LT

(F8.8 / 17.6) — 11.3 / 21.6 — 11.4 × — 360.0 — 11.5 / 17.5 — (F9.0 / 13.5)

(F10.0 / 15.0) — 12.5 / 19.0 — 12.1 × — 359.8 — 11.7 / 22.4 — (F9.2 / 18.4)

Slope-Stakes Alvarado Sludge Basins

371.48

2+77.15

4.29 365.50 10.27 361.21

2+77.15

3+00.36

3+23.57

3+46.79 E.C. Sta 4+00 ℄

4+00

+50

5+00

+50

℄ 3.02 362.48

BM (CK 11) 9.00 370.45 361.45

7.98 362.47 = 362.48

359.5
12.0 (F9.5 19°)
23.0

(F11° 16.5) 7.5 20.5

RT 359.0 357.4 LT
(F10° 20°) 6.5 24.0 8.1 21.4 (F11.6 17.4)

359.3
(F10.4 15.6) 6.9 19.6 6.2 23.4 (F9.7 19.4)

359.3
(F11.5 17.3) 8.0 21.3 6.2 23.4 (F9.7 19.4)

359.8
(F12.7 19.1) 9.2 23.1 5.7 22.4 (F9.2 18.4)

360.1
(F11.7 17.6) 8.2 21.6 5.4 21.8 (F8.9 17.8)

360.1
(F10° 15°) 6.5 19.0 6.3 5.4 21.8 (F8.9 17.8)

361.3
(F9.1 13.7) 5.6 17.7 5.7 4.2 19.2 (F7.7 15.4)

Slope Stakes
Alvarado Sludge Basins

370.45

6+00

6+22.79 Rt. Sta 6+72 ℄

6+50

7+00

7+50

8+00

72' RT. - 8+80 ℄

8+42.89 Northerly End DIKE N°1

CK BM 3.68 365.13 9.00 361.45

0+00 DIKE N°2 (Southerly End)
205' LT. 1+00 ℄

0+50

(F7.9 / 11.2) 9.4 / 15.9 8.6 × 314.1 6.4 / 17.8 (F6.9 / 13.8)

(F7.3 / 11.0) 8.8 / 15.0 8.3 × 362.7 7.8 / 16.6 (F6.3 / 12.6)

(F6.5 / 9.8) 8.0 / 13.8 7.5 × 363.0 7.5 / 16.0 (F6.0 / 12.0)

(F5.0 / 7.5) 6.5 / 11.5 5.7 × 363.3 7.2 / 15.4 (F5.7 / 11.4)

(F4.7 / 7.1) 6.2 / 11.1 6.6 × 364.5 6.0 / 13.2 (F4.5 / 9.0)

(F2.9 / 4.4) 4.4 / 8.4 5.1 × 367.3 3.2 / 7.4 (F1.7 / 3.4)

1.8 / 4.0 1.7 × 369.2 1.5 / 4.0

0.0 4' 0.1 / 4.0 1.0 × 363.4 1.7 / 4.0 6' to 0.0

(F7.2 / 14.4) 7.3 / 18.4 10.5 × 353.5 11.6 / 21.3 (F11.5 / 17.3)

Slope Stakes
Alvarado Sludge Basins

365.13

1+00						
1+50						
1+94.7 ℄	P.I. 60° LT 2+30 ℄					
1+94.7 ℄						
2+50						
3+00						
3+50						
4+00						
4+50						

✓ (F10 6/21 2) 10.7 / 25.2 — 10.4 × — 10.1 / 19.0 (F10 0/15°) ✓

✓ (F9 5/19°) 9.6 / 23.0 — 9.1 × — 9.3 / 17.8 (F9 2/13 8) ✓

(RT & BK TANG) — 11.7 × — 11.4 / 21.0 (F11 3/17°) ✓

✓ (F9 8/19 6) 9.9 / 23 6

(RT & FD. TANG.) — 11.7 × — 10.3 / 19.3 (F10 2/15 3) ✓

✓ (F10°/20°) 10.1 / 24.0 — 10.9 × — 8.4 / 16.5 (F8 3/12.5) ✓

✓ (F9 1/18 2) 9.2 / 22 2 — 10.7 × — 9.3 / 17.8 (F9 2/13 8) ✓

✓ (F7 6/15 2) 7 7/19.2 — 8.8 × — 10.5 / 19.6 (F10 4/15.6) ✓

✓ (F6 4/12 8) 6.5 / 16.8 — 6.7 × — 7.3 / 14.8 (F7 2/10 8) ✓

✓ (F4 8/9 6) 4.9 / 13.6 — 5.2 × — 5.7 / 12.4 (F5 6/8.4) ✓

Slope Stakes
Alvarado Sludge Basins

365.13

5+00					
5+50					
P	4.38	365.83	3.68	361.45	
6+00					
6+50					
	(72' LT - 7+12 ℄)				
6+79.5	Northerly End of DIKE N°2				
CK BM			4.38	361.45	

✓ (F4° / 8°) 4.1 / 12.0 — 4.3 × — 4.1 / 10.0 (F4° / 6°) ✓

✓ (F3.6 / 7.2) 3.7 / 11.2 — 3.7 × — 4.3 / 10.3 (F4.2 / 6.3) ✓

✓ (F2.5 / 5°) 3.3 / 9.0 — 3.5 × — 3.8 / 8.5 (F3° / 4.5) ✓

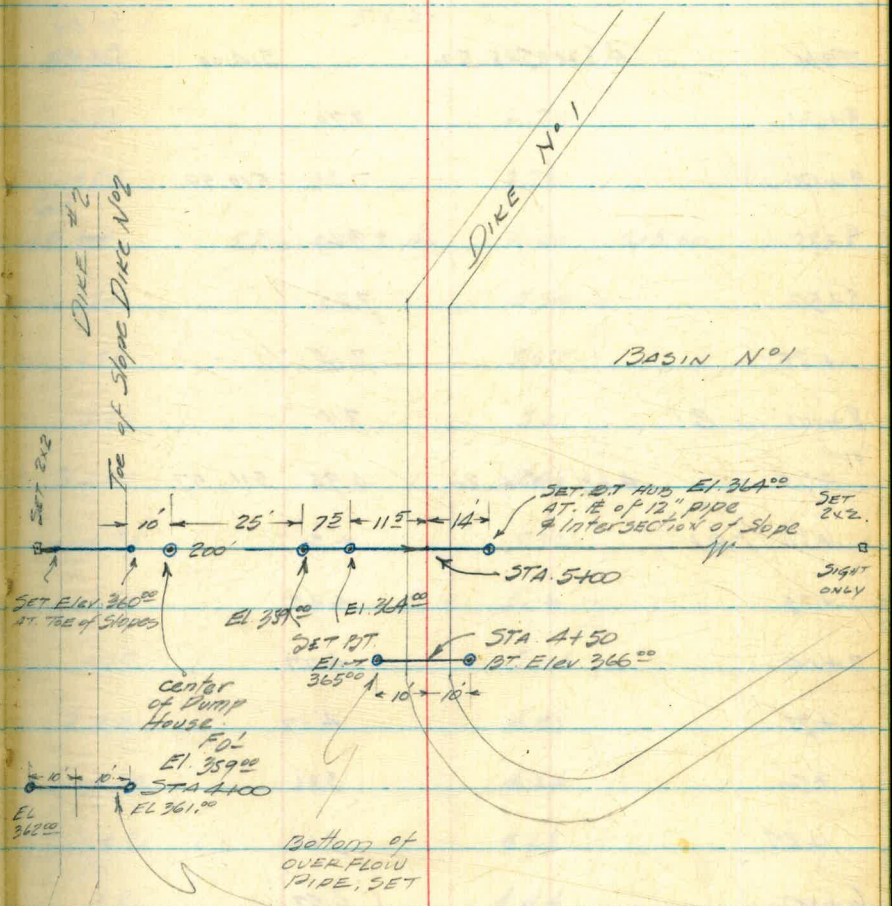
✓ (F1.1 / 2.2) 1.9 / 6.2 — 2.4 × — 2.8 / 7.0 (F2° / 3.2) ✓

(C0° / 4°) 0.8 / 4.0 — 1.2 × (3' (0.0)) — 1.8 / 4.0 (C0° / 4°) (8' 0.0)

FEB. 7 1951
Beaty
Leonard
Welker

12" SUCTION LINE THRU DIKE #1
12" OVER FLOW LINE THRU DIKE #1

BM	11.80	373.25		361.45
			9.25	364.00
			14.25	359.00
			7.25	366.00
			8.25	365.00
BM	12.78	374.23		361.45
			14.23	360.00
BM	7.33	368.78		361.45
			6.78	362.0
			7.78	361.0



2/14/51

Check on Top 12" Steel Pipe Sludge Line as Layed

B	TBM	4.52	518.52	514.00	SE Cor G.V. Box
	9+21		7.70		
	9+00		7.53	510.99	
	8+75		7.42		
	8+50		7.25		
	+25		7.15		
	8+00	P.I.	7.11		
	+75	4.63	516.20	6.95	511.57
	+50	P.I.		6.30	
	+25			4.45	
B	7+00			4.27	
	+75			4.07	
	+50			3.86	
	+25			3.66	
B	6+00			3.57	
	+75			3.56	
	+50			3.38	
	+25			3.12	
	5+00			2.92	

Beatty Welker

Pipe O.D. .90 I.D. .85

2.5
.005
.125

			516.20		
	4+75			2.88	
	+50			2.78	
	+25			2.72	
P	4+00	5.86	519.46	2.60	513.60
	+75			5.70	
	+50			5.67	
	+25			5.61	
	3+00			5.48	
	+75			5.32	
	+50			5.16	
	+25			5.04	
	2+00			4.98	
	+75			4.84	
	+50			4.63	
	+25			4.44	
	1+00			4.33	
	+75			4.21	
	+67			4.13	
	+50			3.93	
	+42.5 P.I.			3.88	
P		10.08	528.29	1.25	518.21

2/14/51

Check on Top 12" STEEL PIPE SLUDGE LINE AS LAYED

		528.29		
0+27 } opening			12.68	
0+21 } opening			12.67	
0+06 (P.I)			12.65	
0-04 (P.I)			12.50	
TP	9.83	537.92	0.20	528.09
CK BM.			1.52	536.40 = 536.39

ALVARADO SLUDGE BASINS

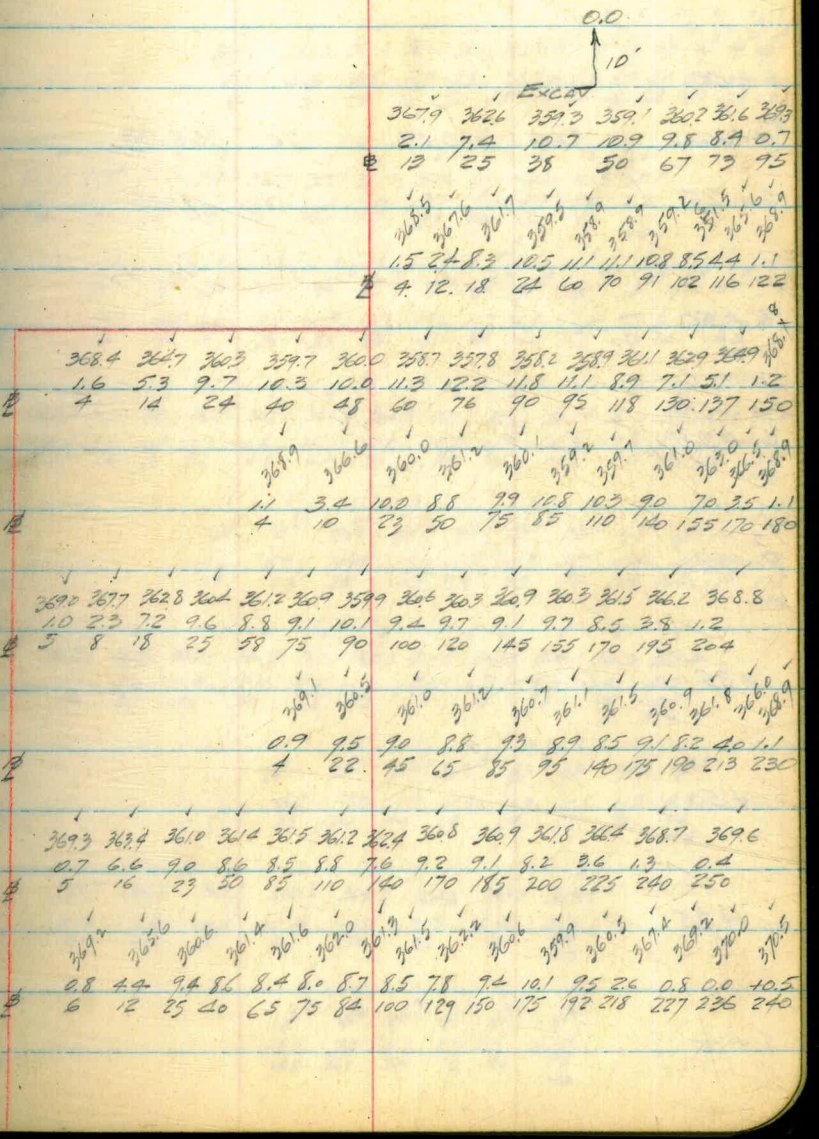
FINAL CROSS-SECTIONS OF EXCAVATION

FEB. 19, 1951
BEATTY N
LEONARD T
WELKER F

4-2

BASIN No 1

BASE LINE STATIONS	+B.S	H.I.	-F.S	ELEV.
B.M.	8.50	369.95		361.45
3+75				
4+00				
+25				
+50				
+75				
5+00		SUCTION LINE Invert 12" Steel 22° RT	5.90	364.05
+25				
+50				



ALVARADO SLUDGE BASINS
FINAL CROSS-SECTIONS OF EXCAVATION

369.93

5+75

6+00

℄ ROCK 5.64 373.89 1.70 368.25

6+25

6+50

6+75

7+00

+25

+50

+75

8+00

2/19/51

43.

NATURAL GROUND N.G

371.0 370.0

+1.0 0.0

369.4 369.9 361.4 361.2 361.9 361.9 361.4 361.4 362.8 362.0 362.2 360.0 361.6 364.0 366.5 367.4

0.6 6.1 8.6 8.8 8.1 8.1 8.6 8.6 8.0 8.0 9.8 10.0 8.4 6.0 3.5 2.6

℄ 6 15 24 41 50 70 75 93 106 123 155 175 185 189 195 200

369.2 363.8 361.5 361.1 361.8 362.2 361.0 361.7 361.1 361.6 364.7 368.8 369.9

0.8 6.2 8.5 8.9 8.2 7.8 9.0 8.3 8.9 8.4 5.8 1.2 0.1

℄ 4 15 20 30 50 85 113 120 150 162 169 178 185

NG

368.8 362.7 361.8 362.2 362.3 362.1 362.3 360.6 361.1 364.0 368.3 371.1

5.1 10.2 12.2 11.7 11.6 11.8 11.6 13.3 12.8 9.9 5.6 2.8

℄ 4 13 20 45 70 100 112 133 140 150 157 167

NG

368.8 363.5 362.3 361.8 362.6 362.4 362.7 362.2 362.4 361.7 364.6 367.4 368.4

5.1 10.4 11.6 12.1 11.3 11.7 11.2 11.7 11.5 12.6 9.3 6.5 5.5

℄ 4 14 19 30 55 65 80 85 100 125 135 141 145

NG

369.3 365.2 363.0 362.2 362.1 362.8 362.9 362.1 362.0 361.4 361.6 364.7 367.8 370.4

4.6 8.7 10.9 11.7 11.8 11.1 11.0 11.8 11.9 12.5 12.3 9.2 6.1 3.5

℄ 6 14 20 32 48 60 70 85 94 105 110 120 129 134

NG

369.3 365.0 362.0 361.7 362.3 362.6 361.8 362.5 363.6 368.6 370.1

4.6 8.9 10.9 12.2 11.6 11.3 12.1 11.4 10.3 5.9 3.8

℄ 13 23 28 43 63 75 93 100 102 114 118

NG

369.3 365.3 362.0 361.5 362.1 362.2 361.5 361.8 364.1 366.3 369.2

4.6 8.6 11.9 12.4 11.8 11.7 12.2 12.1 9.8 7.6 4.5

℄ 23 31 41 50 65 72 78 86 93 100 104

N.G

369.1 364.6 362.0 362.4 362.0 362.1 362.6 369.0

4.8 9.3 11.9 11.5 11.9 11.8 11.3 4.9

℄ 32 41 48 64 69 78 90 96

NG

368.7 366.1 363.8 363.5 363.2 364.2 367.3 369.5

5.2 7.8 10.1 10.4 10.7 9.7 6.6 4.4

℄ 40 43 51 61 70 76 84 89

NG

368.4 366.7 365.8 365.6 367.1 368.5

5.5 7.2 8.1 8.3 6.8 5.4

℄ 48 51 55 72 80 83

NG

373.89

8+25

8+50

CK BM. 12.46 361.43 =361.45

BM 8.41 369.86 361.45

CROSS-SECTIONS OF DIKE NO 1.
SHOWING EMBANKMENT.

369.86

0+00

0+50

1+00

+50

2+00

+30.73 B.C

+53.94

368.6 367.5 366.6 366.9 368.3
5.3 6.4 7.3 7.0 5.6
A 58 60 64 76 79
NG

368.9 368.4 369.1 370.8
5.0 5.5 4.8 3.1
B 67 71 84 100
NG

0.0 EXCAV. ? (if any)
5'

0.0 AREA

66.6 68.4 69.1 69.0 67.4
3.3 1.5 0.8 0.9 2.5
9 6 C 5 8

65.6 68.9 68.9 69.0 65.6
4.3 1.0 1.0 0.9 4.3
10 6.5 C 4.5 11

63.8 68.5 68.7 68.5 65.1
6.1 1.4 1.2 1.4 4.8
13.5 7 C 5 13

61.7 69.1 69.1 69.1 62.3
8.2 0.8 0.8 0.8 7.6
19 7 C 4 17

60.0 69.3 69.2 69.3 66.2 64.8
9.9 0.6 0.7 0.6 3.7 5.1
20. 6.5 C 6 10 22

59.0 68.9 69.2 68.5 65.7 60.5
10.9 1.0 0.7 1.4 4.2 9.4
19 5 C 6 11 23

SLUDGE BASINS
X-SECTIONS of #1 DIKE EMBK'T.

369.86

2+77.5

3+00.36

3+23.57

3+46.79

4+00 — Top 12" Steel overflow 1.25 368.61

4+50

5+00

5+50

6+00

+22.8 ℄ PT

2/19/51

58.0	68.7	68.9	68.4	66.2	59.7
11.9	1.2	1.0	1.5	3.7	10.2
21	6	C	5	11	26.5

57.4	67.4	68.7	69.1	68.6	65.9	59.6
12.5	2.5	1.2	0.8	1.3	4.0	10.3
22	8	4	C	5	9.5	24

58.6	67.9	69.2	69.1	68.0	61.9	59.5
11.3	2.0	0.7	0.8	1.9	8.0	10.4
20	7	4	C	7	18	25

57.5	68.2	68.7	68.3	61.8	59.8
12.4	1.7	1.2	1.6	8.1	10.1
22	6.5	C	6	19	24

56.3	69.4	69.1	68.8	63.6	60.3
13.6	0.5	0.8	1.1	6.3	9.6
23	5.5	C	5.5	20	24

57.3	69.0	69.0	69.0	60.5
12.6	0.9	0.9	0.9	9.4
22	7	C	5	22

59.0	68.7	69.0	69.2	65.6	60.9
10.9	1.2	0.9	0.7	4.3	9.0
20	5.5	C	6	12	23

59.9	68.7	69.0	69.1	65.5	61.8
10.0	1.2	0.9	0.8	4.4	8.1
18	5	C	4.5	11	18

61.1	68.6	68.8	68.9	66.0	62.5
8.8	1.3	1.1	1.0	3.9	7.4
16	6	C	3.8	9	17

61.7	68.9	69.1	69.2	65.9	62.6
8.2	1.0	0.8	0.7	4.0	7.3
16	4	C	5.5	11	18

SLUDGE BASIN
X-SECTS of
#1 - DIKE EMBKT

369.86

6+50

7+00

+50

8+00

8+20

2/19/51

62.5	69.2	69.3	69.4	64.4	62.9
7.4	0.7	0.6	0.5	5.5	7.0
15	4.8	C	5	14	18.5

64.0	69.0	69.0	69.2	64.6	62.0
5.9	0.9	0.9	0.7	5.3	7.9
12	5.5	C	4.8	13.	20

64.3	68.7	68.6	68.4	64.5
5.6	1.2	1.2	1.5	5.4
12	5.	C	4	13

66.7	68.1	68.8	69.0	68.7	67.8
3.2	1.8	1.1	0.9	1.2	2.1
9.	7.5	5	C	4.5	7.8

0.0 Area

Pages 44 to 46
Reduced 2-27-51 Com

Final Cross-Sections of Excavation

Basin No 2

BM	4.30	365.75	361.45
0+50			
0+75			
1+00			
1+25			
1+50			
1+75			
2+00			
+25			
+50			
+75			

Feb 23, 1951 Rain 11:15 am
Beatty
Leonard
Welker

0.0 Area Excav.

(Excav. for Approach Ramp.)

61.6 59.1 58.1 57.4
4.2 6.7 7.7 8.4
193 192 183 181
NG NG

0.0 Area Excav Back.
0.0 Area Excav Ahead.

64.7 62.3 59.1 59.8 64.4
4.1 3.5 6.7 6.0 1.4
205 202 180 172 159

62.3 61.2 60.5 58.4 56.9 55.6 57.4 61.5 63.5 64.7
3.5 4.6 5.3 7.4 8.9 10.2 8.4 4.3 2.3 1.1
201 200 198 181 178 158 148 140 134 129
NG

62.7 59.8 58.1 56.0 55.6 54.4 54.0 55.1 57.2 61.0 64.8
2.1 6.0 7.7 9.8 10.2 11.4 11.8 10.7 7.9 4.8 1.0
201 197 188 170 153 147 137 130 120 112 100
NG

0.0 Area 10'

Channel Excav.

65.7 62.9 56.6 56.7 55.2 55.4 54.4 55.1 56.2 57.7 65.1 (54.1 53.8 53.8 54.3)
0.1 2.9 9.2 9.1 10.6 10.4 11.4 10.7 9.6 8.1 0.7 (11.7 12.0 12.0 11.5)
204 200 197 184 167 140 128 106 99 89 71 (38 32 18 17)
NG NG NG

64.7 61.7 60.6 58.5 55.5 54.9 54.7 54.5 55.0 56.7 59.6 64.8 (55.2 55.9 54.3 54.7 55.5)
4.1 4.1 5.2 7.3 10.3 10.9 11.1 11.3 10.8 9.1 6.2 1.0 (10.6 9.9 11.5 11.1 10.3)
204 200 196 193 182 170 150 122 105 80 73 66 (38 33 31 23 19)
NG NG

60.7 59.8 57.2 54.7 54.3 54.6 54.6 56.7 59.7 65.1 (56.7 56.3 54.8 55.6 57.3 56.3)
5.1 6.0 8.6 11.1 11.5 11.2 11.3 9.1 6.1 0.7 (9.1 9.5 11.0 10.2 8.5 9.5)
199 195 191 181 172 148 123 81 74 66 (37 34 32 25 22 18)
NG NG NG NG

FINAL CROSS-SECTIONS OF EXCAVATION

2/23/50

365.75

3+00

61.1 57.9 54.7 54.0 54.3 54.9 54.5 55.1 56.1 60.3 65.2
4.7 7.9 11.1 11.8 11.5 10.9 11.3 10.7 9.7 6.5 0.6
200 193 181 171 163 126 120 105 82 76 67
NG

57.0 55.2 56.7 58.2 57.3
8.8 10.6 9.1 7.6 8.5
37 33 24 20 16
NG NG

3+25

61.1 58.9 57.1 55.1 53.9 54.5 56.1 55.9 58.6 64.9
4.7 7.0 8.7 10.7 11.9 11.3 10.7 9.9 7.2 0.9
199 192 189 180 169 140 110 83 78 68
NG

57.0 55.3 55.8 57.1 57.6
8.8 10.5 10.0 8.7 8.2
39 35 32 27 18
NG NG

3+50

62.9 60.3 59.3 56.9 54.1 54.2 55.4 57.2 61.1 65.2
2.9 5.5 6.5 8.9 11.7 11.6 10.4 8.6 4.7 0.6
202 197 191 188 165 135 95 82 75 68
NG

56.4 55.2 55.4 57.2 58.7
9.4 10.6 10.4 8.6 7.1
46 39 31 30 14
NG NG

11+ (ROCK) 2.26 367.78 0.23 365.52

+75

62.0 59.5 58.0 57.0 54.4 54.8 54.3 54.6 55.1 57.6 59.0 65.1
5.8 8.3 9.8 10.8 13.4 13.0 13.5 13.2 12.7 10.2 8.8 2.7
198 191 189 181 167 155 135 115 100 85 80 68
NG

59.1 57.6 56.6 57.6 59.0 59.6
9.7 10.2 11.2 10.2 8.8 8.2
46 38 31 22 20 19
NG NG

4+00 Top 12" overflow 3.29 364.49

63.8 58.8 56.9 54.6 54.5 54.6 55.2 56.7 59.3 61.2 65.3
4.0 9.0 10.9 13.2 13.3 13.2 12.6 11.1 8.5 6.6 2.5
199 188 179 165 145 115 96 88 80 76 70
NG

57.6 57.1 57.1 57.7 59.1 59.6
10.2 10.7 10.7 10.1 8.7 8.2
43 40 34 30 27 23
NG NG

0.0 AREA = 5'

+25

63.1 59.5 57.5 54.8 55.1 54.8 55.2 57.3 59.7 65.4
4.7 8.3 10.3 13.0 12.7 13.0 12.6 10.5 8.1 2.4
193 186 177 161 195 115 105 85 80 70
NG

+50

63.4 61.1 58.2 56.8 55.6 55.6 55.8 55.5 57.0 60.6 62.9 65.1
4.4 6.7 9.6 11.0 12.2 12.2 12.0 12.3 10.8 7.2 4.9 2.7
190 185 175 161 159 130 110 97 90 80 74 71
NG

+75

64.1 59.2 57.8 56.3 55.9 56.2 55.8 56.6 59.4 61.1 65.0
3.7 8.6 10.0 11.5 11.9 11.6 12.0 11.2 8.4 6.7 2.8
185 173 160 155 127 110 100 92 85 77 71
NG

5+00

64.6 61.6 58.9 56.4 56.2 57.9 61.1 65.1
3.2 6.2 8.9 11.4 11.6 9.9 6.7 2.7
180 175 157 147 97 90 80 72
NG

11+ 2.35 367.87 2.26 365.52

+25

62.2 60.2 60.4 58.4 56.4 56.4 56.2 56.9 59.1 60.3 61.6 65.3
5.6 7.6 7.4 9.4 11.4 11.4 11.6 10.9 8.7 7.5 6.2 2.5
174 163 154 149 141 125 100 95 90 83 78 72
NG

2/23/51 COLD!

FINAL X-SECTS
EXCAVATION
BASIN NO 1
367.87

5+50					
+75					
6+00					
+25					
P	10.23	373.50	4.60	363.27	
+50					
+75					
P	8.12	380.11	1.51	371.99	
7+00					
+25					
7+50					
CK P			6.10	374.01	
7+75					

65.5 59.9 59.7 57.5 56.5 56.8 56.5 57.1 58.7 61.9 65.1
2.3 7.9 8.1 10.3 11.3 11.0 11.2 10.7 9.1 5.9 2.7
177 158 146 138 132 118 105 95 90 80 73
NG

67.8 64.5 62.9 61.0 62.0 60.6 60.2 57.5 56.6 56.8 57.3 59.0 65.3
2.0 3.3 4.9 6.8 5.8 7.2 7.6 10.3 11.2 11.0 10.5 8.8 2.5
176 167 160 155 142 140 135 127 121 103 95 88 72
NG

69.9 63.6 62.6 64.2 61.0 57.2 57.9 60.1 62.6 65.3
+2.1 4.2 5.2 3.6 6.8 10.6 9.9 7.7 5.2 2.5
166 154 149 135 125 113 97 87 78 74
NG

72.3 71.3 67.8 63.5 65.2 62.7 59.0 59.0 62.1 65.3
1.45 +3.5 0.0 4.3 2.6 5.1 8.8 8.8 5.7 2.5
166 163 155 145 126 116 104 93 81 74
NG

73.5 65.7 66.2 65.0 65.6 64.8 61.5 62.5 64.7
1.0 7.8 7.3 8.5 7.9 8.7 12.0 11.0 8.8
159 142 127 114 111 105 90 81 75
NG

76.5 74.0 72.3 69.4 68.2 68.7 66.6 66.2 67.0 65.9
+3.0 +0.5 1.2 4.1 5.3 4.8 6.9 7.3 6.5 8.1
156 152 151 142 132 130 115 108 84 77

76.3 74.5 73.1 71.4 71.3 69.3 65.1 65.7 64.9
3.8 5.6 7.0 8.7 8.8 10.8 15.0 14.4 15.2
150 145 143 133 125 116 94 84 78
NG

77.5 75.2 74.6 74.0 70.2 69.1 69.1
2.6 4.9 5.5 6.1 9.9 11.0 11.0
148 141 129 125 112 104 94
NG NG

80.9 79.7 78.6 77.9 77.7 76.2 74.5 74.4
+0.8 0.4 1.5 2.2 2.4 3.9 5.6 5.7
153 150 146 145 133 125 112 NG
NG

C.O. AREA EXCAV.

Reduced 2-27-51
cim

FINAL X-SECTS
EMBKT
DIKE NO 2

5	PI	2.33	367.85	365.52
	6+79.05			
	6+50			
6	6+00			
	5+50			
	5+00			
	+50			
7	4+00			
	+50			
7	3+00			
	+50			

2/23/51

50.

0.0 Area Embkt.

64.3	65.4	65.2	65.1	63.2		
3.6	2.5	2.7	2.8	4.7		
12	8	C	2.5	7		
62.8	65.4	65.3	65.5	62.0		
5.1	2.5	2.6	2.4	5.9		
9	5	C	4.5	10		
61.4	65.4	65.4	65.4	60.9		
6.5	2.5	2.5	2.5	7.0		
11.	5.0	C	4.5	11		
62.4	65.4	65.5	65.6	61.0		
5.5	2.5	2.4	2.3	6.9		
11.	5	C	4	10		
61.2	65.0	65.3	65.4	59.6		
6.7	2.9	2.6	2.5	8.3		
12	4.5	C	4	14		
60.5	65.2	65.1	64.9	58.1		
7.4	2.7	2.8	3.0	9.8		
13	4.8	C	4	15		
60.0	65.1	65.0	64.8	55.9		
7.9	2.8	2.9	3.1	12.0		
14	5.	C	5	18		
60.1	65.0	64.8	64.6	64.0	63.3	56.0
7.8	2.9	3.1	3.3	3.9	4.6	11.9
13	6	C	3	6	8	22
58.9	65.1	65.0	65.0	57.0		
9.0	2.8	2.9	2.9	10.9		
16	6	C	6	17		

2/23/51

367.85 ✓

2+00

1+50

1+00

+50

0+00

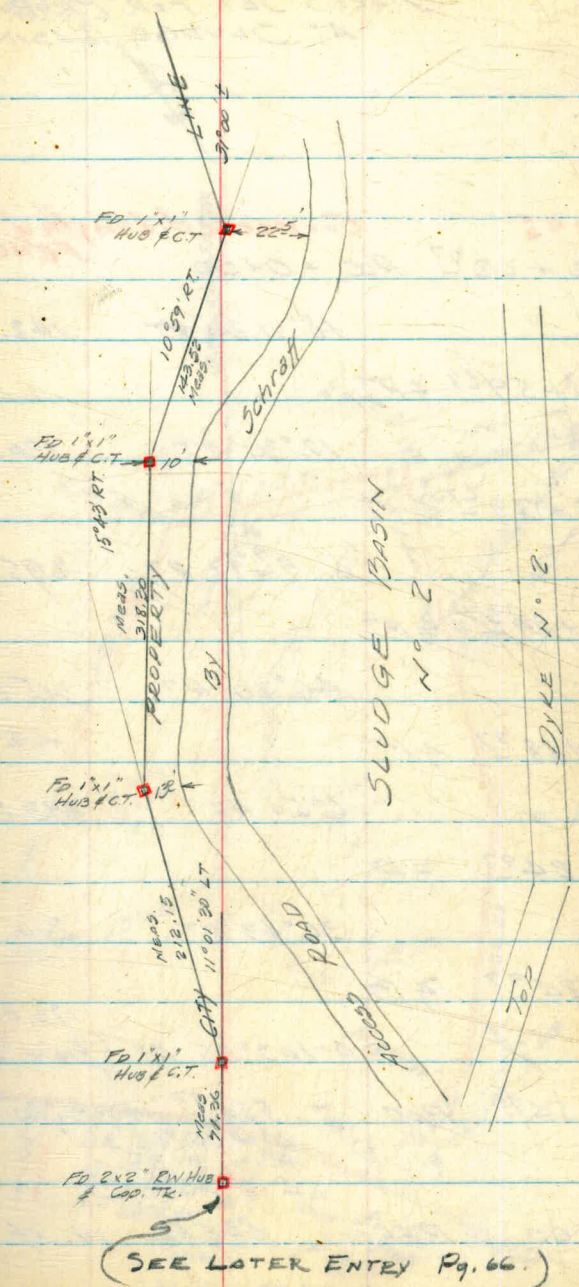
56.0	64.7	65.2	64.7	54.8	
11.9	3.2	2.7	3.2	13.1	
13	5	C	4.5	20	
56.0	64.4	64.7	64.3	52.6	
11.9	3.5	3.2	3.6	15.3	
12	4.5	C	8	22	
57.6	59.8	65.0	65.0	65.1	55.8
10.3	8.1	2.9	2.9	2.8	12.1
17	11	4	C	7	18
58.1	64.3	64.5	64.4	60.6	58.9	54.1
9.8	3.6	3.4	3.5	7.3	9.0	13.8
17	5		6	11	15.5	23

0.0 AREA EMBK

Reduced 2-27-51 ~~Corr~~

PROPERTY LINE - Northerly SIDE
ALVARADO SLUDGE BASINS

MAY 3 1951
BEATTY
LEONARD
G. NELSON



(SEE LATER ENTRY Pg. 66.)

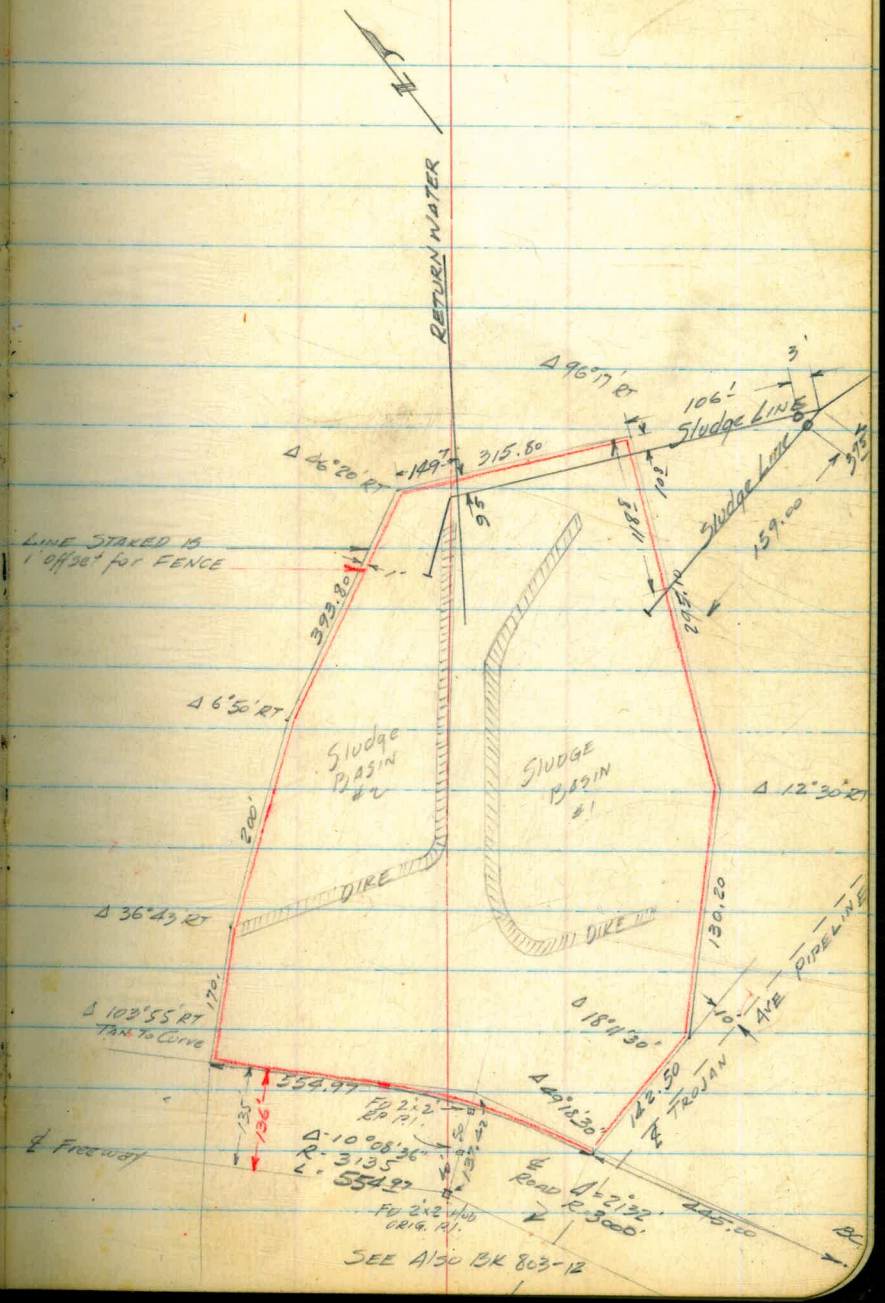
STAKES SET FOR PROPOSED FENCE AT SLUDGE BASINS

Nov. 8, 1951

BEATTY
LEONARD
POWELL

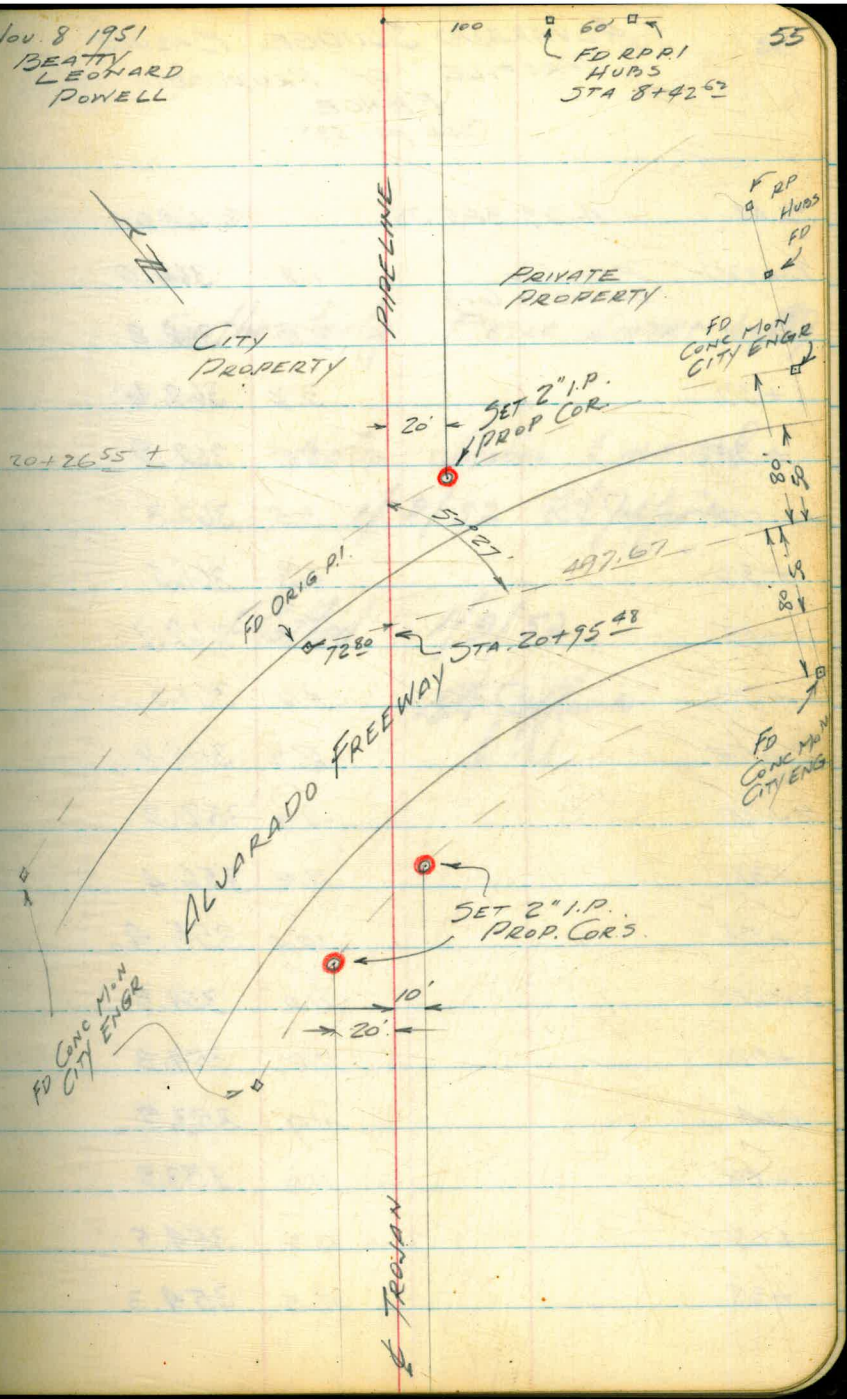
53

			-7.34
2195	Corrected Lengths of FENCE		-4.16
22+02.37 POC = 0+00			
	18°11'30" RT	142.50	-.37
20+59.87 ℄ PT			
	12°30' RT	130.20	-.34
19+29.67 ℄ PT			
	Δ 96°17' RT	295.10	-1.11
16+34.57 ℄ PT			
	46°20' RT	315.80	-1.05
13+18.77 ℄ PT			
	6°50' RT	393.80	-.13
9+24.97 ℄ PT			
	36°43' RT	200.	-.75
7+24.97 ℄ PT			
		170.00	-2.6
	Δ = 103°55' RT (from Tan to Curve)		
5+54.97 POC	554.97 W. of Beginning of Fence		
	Δ = 10°08'36"		
	R = 3135.		
	L = 554.97		
0+00 POC	445.00 W. of BC		



PROP. COR.'S SET
TROJAN AVE PIPELINE R.O.W.
& ALVARADO FREEWAY

Nov. 8 1951
BEATTY
LEONARD
POWELL



ALVARADO SLUDGE BASINS
PROFILE OF PROPOSED FENCE
(See pg 53)

JAN. 7 1952
BEATTY
LEONARD
POWELL

B.M	4.33	365.78	361.45
0+00	FEN Cor. (Southerly Cor.)	1.8	364.0
+17		3.0	362.8
+33		3.2	362.6
+55		2.9	362.9
1+00		3.5	362.3
+33		4.3	361.5
+35		3.6	362.2
+39		4.3	361.5
+55		5.2	360.6
2+00		7.9	357.9
+38		9.4	356.4
+54		10.4	355.4
3+00		11.0	354.8
+02		11.0	354.8
+04		11.9	353.9
+06		11.9	353.9
+08		11.2	354.5
+38		11.5	354.3

on RPPI Hwy (pg. 34)

Southeasterly Fence Corner by B&L

Notes checked & reduced
1/9/52 LG Jefferies

Plotted 1/9/52
LG Jefferies

ALVARADO SLUDGE BASINS
Profile along Proposed FENCE LINE

	365.78			
3+45		14.1	351.7	Edge of Slough (water)
3+91		14.3	351.5	" " (water)
4+00		12.7	353.1	
+19		11.9	353.9	
+25		11.5	354.3	
+28		12.3	353.5	
+70		12.9	352.9	
5+00		13.4	352.4	
+29		13.5	352.3	
+41		12.5	353.3	
5+53.7	FEN. COR.	12.2	353.6	
+99		11.3	354.5	
6+55		9.0	356.8	
+63		8.5	357.3	
+94		1.5	364.3	
7+00		1.3	364.5	} Top DIKE
+04		1.8	364.0	
TP	12.71	377.92 V	0.57	365.21 V
+06			13.0	364.9

ALVARADO SLUDGE BASINS
Profile along Proposed Fence

377.92

7+22	FEN & PT		8.4	369.5
+51			7.7	370.2
8+00			7.8	370.1
+40			7.7	370.2
9+00			10.2	367.7
+21.5	FEN. COR		9.0	368.9
+29			9.5	368.4
+47			10.0	367.9
+61			11.2	366.7
+94			9.2	368.7
10+00			9.8	368.1
+24			10.9	367.0
+50			9.8	368.1
+74			8.3	369.6
11+00			8.5	369.4
+24			9.2	368.7
+54			8.6	369.3
12+00			3.9	374.0 ~~5.0~~
+10			2.7	375.2
PI		5.99 383.04	0.87	377.05 ✓

ALVARADO SLUDGE BASINS
PROFILE ALONG PROPOSED FENCE

	383.02		
+50		4.8	378.2
+73		3.4	379.6
+94		1.9	381.1
13+00		1.9	381.1
+15.3	FEN. COR	1.3	381.7
+43		3.0	380.0
+45		4.0	379.0
+52		5.1	~~378.9~~ 377.9
+55		6.2	376.8
+60		6.4	376.6
+65		5.5	377.5
+87		6.4	376.6
14+00		8.0	375.0
+29		11.2	371.8
+53		13.2	369.8
P	6.36	376.22 ✓	13.18 369.86 ✓
+56		6.2	370.0
+61		7.7	368.5
+62		8.4	367.8

1-7-52

ALVARADO SLUDGE BASINS
PROFILE ALONG PROPOSED FENCE

376.22

+65 5	Top 6" Gal Ret. Wat.	7.5	368.7
+66		8.8	367.4
+74		10.3	365.9
+90		12.7	363.5
15+00		12.7	363.5
+28		12.3	363.9
+67		11.6	364.6
+80		10.2	366.0
+91		9.4	366.8
16+00		7.9	368.3
+23		6.5	369.7
+30	Fen. Cor	4.9	371.3
+41		3.7	372.5
+41	Top 6" Steel	3.5	372.7
+48		2.9	373.3
+64		3.7	372.5
+81		3.3	372.9
+98		3.6	372.6
17+14		2.5	373.7

Edge Slough

ALVARADO SLUDGE BASINS
PROFILE ALONG PROPOSED FENCE

376.22

17+26		3.1	373.1
+38		2.3	373.9
+43		0.2	376.0
+49		2.9	373.3
+49.5	Top 6"	2.1	374.1
+52		2.9	373.3
+54		2.4	373.8
+59		2.2	374.0
+65		1.5	374.7
+68		2.0	374.2
+90		1.9	374.3
18+00		2.4	373.8
+25		2.7	373.5
+50		1.9	374.3
+72		2.1	374.1
19+00		1.9	374.3
+24	FEN COR	2.2	374.0
+40		2.3	373.9
+65		1.5	374.7

ALVARADO SLUDGE BASINS

PROFILE ALONG PROPOSED FENCE

376.22

20+00			3.2	373.0
+54	FEN. COR		5.5	370.7
21+00			8.1	368.1
1-P #10.	0.99	369.16 ✓	8.05	868.17 ✓
+50			3.6	365.6
21+95 = 0+00	FEN COR.		5.3	363.9
CK. B.M.			7.75	361.38 = 361.45

1-7-52

62

Notes checked & released
1/9/52 RG Jeffries

ALVARADO Sludge Basins

Check Levels

& Profile Dike #1

5-22-52

West

Kemp

Sta	+	Hi	−		
	10.95	366.51		355.56	BM on Hd wall
	10.38	373.19	3.70	362.81	Turn on rock
0+00			3.90		
0+15			4.3		
0+38			4.4		
0+50			4.25		
0+73			4.3		
1+00			4.1		
+50			4.1		
2+00			4.1		
2+50			4.5		
3+00			4.5		
+50			4.3		
4+00			4.3		
+50			4.2		
5+00			4.2		
+50			4.5		
6+00			4.4		

5-23-52
West
Kemp
Martelli

Sta	BS +	HI	FS -
6+16		373.19	4.4
6+50			4.0
7+00			4.1
+50			4.3
8+00			4.0
+20			4.3
	Dike #2 North Dike		0+00 at ✗ in Fence line
		373.19	
0+00			8.1
+50			8.5
1+00			8.5
+50			8.4
2+00			8.3
+50			8.2
3+00			8.6
+27			8.3
3+50			8.3
4+00			7.9
+50			8.0

End of Dike No 1 Natural Ground

℄ Profile Dike #2 cont

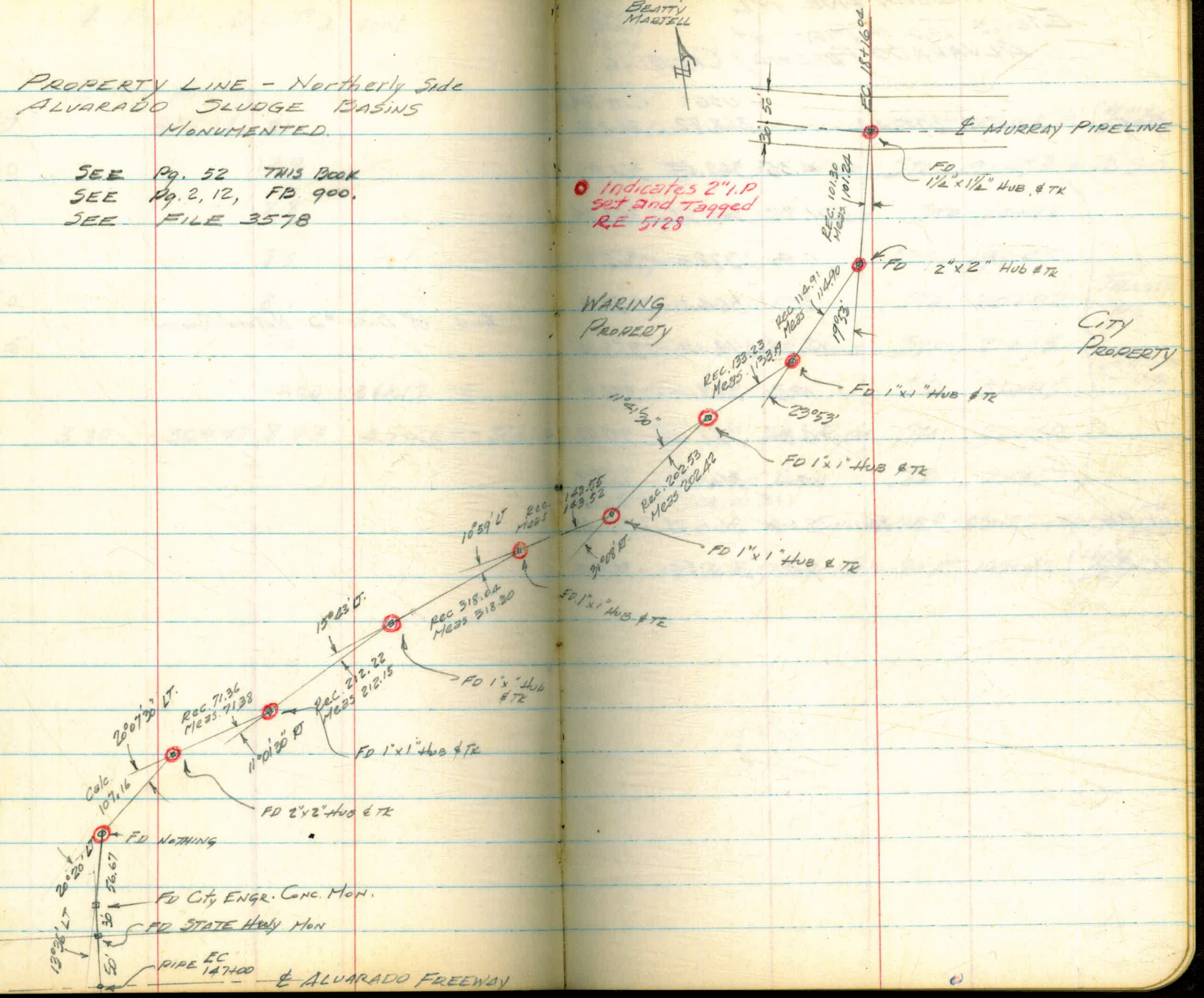
	+	HI	−	
4+67		373.19	8.1	
5+00			7.9	
+50			7.8	
6+00			8.0	
+50			8.1	
+65			7.0	
			12.02	361.17
	3.30	364.47	8.93	355.54 = 355.56

End of Dike #2 Natural Ground

SEPT. 23 1955
BEATTY
MARTELL

PROPERTY LINE - Northerly Side ALVARADO SLUDGE BASINS MONUMENTED.

SEE Pg. 52 THIS BOOK
SEE Pg. 2, 12, FD 900.
SEE FILE 3578



TROJAN AVE P.L.
Elev.s Top of Pipe at ALVARADO FREEWAY CROSSING

JULY 3 1956
Beatty
Shorey
Kemp

			USGS	City Datum	
BM	3.62	372.44	368.82	362.70	PK Nail on culvert Hdwll 42° LT. 157+98 "P" (Hwy Dept.)
		4.35	368.09	361.97	Top of 54" Pipe STA. 19+45 3/4 @ 12° S.O.
		11.87	360.57	354.45	Top of 54" Pipe STA. 20+92
		0.4	372.0	365.9	Ground line STA. 19+45
		8.3	364.1	358.0	Ground line STA. 20+92
		12.97	359.47	353.35	Top of 54" Pipe STA. 21+95
		10.3	362.1	356.0	Ground line STA. 21+95
		14.34	358.10	351.98	Top of 54" Pipe STA. 22+57
		10.6	361.8	355.7	Ground line STA. 22+57
				355.56	City Datum (see pg. 34)
CK BM.	9.07	370.85	10.66	361.78 = 361.68	USGS. CHIS ⊡ on Culv. Hdwll 65' LT. 149+90 (Hwy Dept.
CK BM.			7.02	363.83 = 363.82	USGS NE Cor City Engr Mon 80' RT 145+42 (Hwy Dept.)

TROJAN P.L. STATION-ING

8.26
6.08
14.34

382
351
31

7+14 72
2+30 60.0248
4.84) 12.00.
968
2320
1936
3840

.0248
170.
17360
248
4216.0

60.00
4.22
64.22

200.00
54.22
145.78
125.78

361.45 BM
12.47
373.92 Ki
4.92 431.5
8.92

7+34.20
+0
7+34.20 End Pr

514.0

9+27
9+53
9+57

464.67

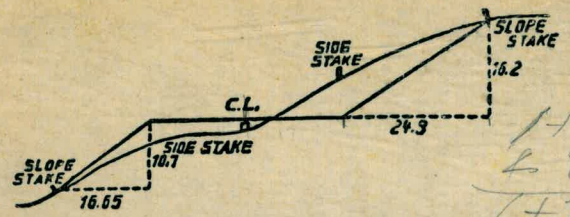
2288
14
8.88

361.45
1.32
362.77
514.0
147.5
18.5

361.45
11.80
373.25
364.00
9.25

373.25
366.00
7.25

0°23' Lt. 1450
41°02' Lt. — 0742.35
1°12' Lt. — 0452.39
101.07
1+53.46 = 1450 Ft.



1+94.74
2 84.15
6+78.89

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.20	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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