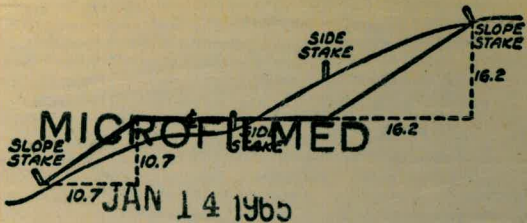


W739



JAN 14 1965

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	.79	.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	1.91
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.24
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	.885	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

ALVARADO FILTRATION PLANT.

INDEX

- X- SECTIONS OF PLANT SITE, MARCH 1949 1-24
- X- SECTIONS, W. SIDE OF FILTER BED AREA, APRIL '49. 25, 26.
- APRIL '50.
- X- SECT. ROADWAY AREA S. OF BASINS BEFORE GRADING 27-29
- FILTER BED TROUGHS - CHECK FLEV'S. OF LIPS 30-36.
- FILTER BED WALKWAYS, SOUTH SIDE, TEST FLEV'S.
- HEADHOUSE BAS. STG. - CHECK FLEV'S. 39-40

INDEXED CON 1-30-51

MARCH 29, 1949

LEONARD
PAYNE
CARYER

1.

FILTER PLANT, FINAL X-SECTIONS.

R.M. +6.74	541.14		R.M.M. SILL WOODS
E 46 20N		-4.4	534.40 536.7
" 40N		-3.8	36.3
" 60N		-4.1	37.0
" 80N		-4.0	37.1
" 100N		-3.6	37.5
" 104N		-3.3	37.8
" 107N		-1.0	40.1
" 115N		0.4	40.7
E 40 20N		-3.7	37.4
" 40N		-3.6	37.5
" 60N		-3.8	37.3
" 80N		-3.8	37.3
" 100N		-3.7	37.4
" 104N		-3.5	37.6
" 106N		-1.2	39.9
" 115N		-0.9	40.2

541.14

E 20	20N	-3.5	537.6
	40N	-3.6	37.5
	60N	-3.8	37.3
	80N	-3.7	37.4
	100N	-4.0	37.1
	105N	-4.2	36.9
	107N	-1.2	39.9
	116N	-1.4	39.7

E 0+0	20N	-3.7	37.4
	40N	-3.8	37.3
	60N	-3.9	37.2
	80N	-3.7	37.4
	100N	-4.1	37.0
	104N	-4.0	37.1
	106N	-1.9	39.8
	115N	-1.5	39.6

541.14

W 20	20N	-3.8	537.3
	40N	-3.9	37.2
	60N	-3.7	37.4
	80N	-3.7	37.4
	100N	-4.1	37.0
	104N	-4.1	37.0
	106N	-1.9	39.8
	115N	-1.4	39.7

W 40	20N	-3.6	37.5
	40N	-4.1	37.0
	60N	-4.0	37.1
	80N	-4.0	37.1
	100N	-3.9	37.2
	104N	-3.8	37.3
	106N	-1.0	40.1
	115N	-1.0	40.1

541.14

541.14

W 46	20N	-3.5	537.8
	40N	-3.4	37.7
	60N	-3.0	38.1
	80N	-3.9	37.2
	100N	-3.2	37.9
	106N	-0.9	40.2
	115N	-0.9	40.2
W 50	115N	-0.9	40.2
	100N	-0.8	40.3
	89N	-1.1	40.0
	87N	-2.9	38.2
	80N	-2.7	38.4
	60N	-2.5	38.6
	40N	-2.5	38.6
	20N	-2.7	38.1
	0.0	-2.8	38.3
	20S	-3.1	38.0
	40S	-3.7	37.4
	60S	-4.5	36.6

W 50	80S	-5.9	535.2
	100S	-7.4	533.7
	120S	-8.6	32.5
	140S	-9.2	31.9
	160S	-9.6	31.5
	180S	-10.6	30.5
	200S	-11.6	29.5
	220S	-12.4	28.7
	240S	-13.4	27.7
	260S	-14.5	26.6
	280S	-15.6	25.5
	300S	-16.5	24.6
W 60	115N	-0.7	40.4
	100N	-0.7	40.4
	89N	-0.8	40.3
	87N	-2.8	38.3
	80N	-2.6	38.5
	60N	-2.6	38.5
	40N	-2.6	38.5

541.14

541.14

W60	20N	-2.6	538.5
	0.0	-2.7	38.4
	20S	-2.8	38.3
	40S	-2.6	38.5
	60S	-2.7	38.4
	77S	-2.9	38.2
	100S	-6.4	34.7
	120S	-7.8	33.3
	140S	-8.9	32.2
	160S	-9.5	31.6
	180S	-10.5	30.6
	200S	-11.4	29.7
	220S	-12.4	28.7
	240S	-12.9	28.2
	260S	-13.5	27.6
	280S	-15.0	26.1
	300S	-16.0	25.1
	320S	-17.4	23.7

W80	115N	-0.5	540.6
	100N	-0.8	540.3
	89N	-0.8	40.3
	87N	-2.7	38.4
	80N	-2.7	38.4
	60N	-2.7	38.4
	40N	-2.6	38.5
	20N	-2.6	38.5
	0.0	-2.6	38.5
	20S	-2.6	38.5
	40S	-2.6	38.5
	60S	-2.5	38.6
	77S	-2.7	38.4
	100S	-5.1	36.0
	120S	-7.3	33.8
	135S	-8.2	32.9
	140S	-8.1	33.0
	160S	-6.5	34.6
	180S	-5.2	35.9

541.14				541.14			
W80	190.5	-4.8	536.3	W100	205	-2.6	538.5
	200.5	-5.8	35.3		40.5	-2.6	38.5
	220.5	-7.5	33.6		60.5	-2.6	38.5
	240.5	-8.8	32.3		80.5	-2.6	38.5
	260.5	-9.7	31.4		90.5	-2.9	38.2
	280.5	-10.7	30.4		96.5	-3.8	37.3
	295.5	-11.2	29.9	x	100.5	-3.9	37.2
	300.5	-12.6	28.5		120.5	-3.4	37.7
	317.5	-16.8	24.3		140.5	-3.3	37.8
	330.5	-17.4	23.7		160.5	-3.1	38.0
W100	115N	-0.8	40.8		174.5	-3.2	37.9
	100N	-0.6	40.5		180.5	-3.6	37.5
	89N	-0.8	40.3		200.5	-6.1	35.0
	87N	-2.7	38.4		220.5	-7.6	33.5
	80N	-2.6	38.5		240.5	-9.0	32.1
	60N	-2.6	38.5		260.5	-10.2	30.9
	40N	-2.7	38.4		280.5	-11.0	30.1
	20N	-2.7	38.4		300.5	-11.8	29.3
	0+0	-2.6	38.5		319.5	-12.8	28.3
					340.5	-18.0	23.1

		541.14	
W120	114N.	-0.4	40.7
	100N	-0.5	40.6
	89N	-0.6	40.5
	88N	-2.6	38.5
	80N	-2.5	38.6
	60N	-2.6	38.5
	40N	-2.6	38.5
	20N	-2.6	38.5
	0.0	-2.6	38.5
	20S	-2.6	38.5
	40S	-2.5	38.6
	60S	-2.5	38.6
	80S	-2.5	38.6
	91S	-2.5	38.6
	95S	-2.9	37.2
	100S	-2.7	37.4
	120S	-3.6	37.5
	140S	-3.4	37.7
	160S	-3.6	37.5

		541.14	
W120	174S	-3.9	537.2
	180S	-4.2	36.9
	200S	-6.1	35.0
	220S	-7.7	33.4
	240S	-9.2	31.9
	260S	-10.5	30.6
	280S	-11.6	29.5
	300S	-12.5	28.6
	320S	-13.4	27.7
	340S	-14.2	26.9
	344S	-14.3	26.8
	363S	-12.2	21.9
W140	112N	-0.6	40.5
	100N	-0.5	40.6
	89N	-0.8	40.3
	88N	-2.4	38.7
	80N	-2.5	38.6
	60N	-2.6	38.5
	40N	-2.5	38.6

541.14

541.14

W140	20N	-2.8	538.3
	0.0	-2.6	38.5
	20s	-2.5	38.6
	40s	-2.5	38.6
	60s	-2.5	38.6
	80s	-2.6	38.5
	90s	-2.7	38.4
	95s	-4.0	37.1
	100s	-4.0	37.1
	120s	-4.0	37.1
	140s	-3.7	37.4
	160s	-3.8	37.3
	165s	-3.9	37.2
	180s	-4.7	36.4
	200s	-6.5	34.8
	220s	-7.7	33.4
	240s	-9.2	31.9
	260s	-10.7	30.4
	280s	-12.0	29.1

W140	300s	-13.2	527.9
	315s	-13.9	27.2
	320s	-14.2	26.9
	340s	-14.8	26.3
	362s	-15.7	25.4
	379s	-18.0	23.1
W160	111N	-0.5	40.6
	100N	-0.6	40.5
	89N	-0.7	40.4
	87N	-2.5	38.6
	80N	-2.6	38.5
	60N	-2.7	38.4
	40N	-2.6	38.5
	20N	-2.5	38.6
	0.0	-2.4	38.7
	20s	-2.5	38.6
	40s	-2.6	38.5
	60s	-2.6	38.5
	80s	-2.7	38.4

See page 25

8.

541.14			541.14	541.14			
W160	905	-2.7	538.4	W180	N110	-0.9	540.2
	955	-4.3	36.8		N100	-1.3	39.8
	1005	-4.4	36.7		N87	-2.4	38.7
	1205	-4.4	36.7		80N	-2.4	38.7
	1405	-4.0	37.1		60N	-2.7	38.4
	1605	-4.1	37.0		40N	-2.6	38.5
	1655	-4.3	36.8		20N	-2.7	38.4
	1805	-4.9	36.2		0.0	-3.2	37.9
	2005	-6.3	34.8		205	-4.0	37.1
	2205	-7.8	33.3		405	-4.2	36.9
	2405	-8.9	32.2		605	-4.4	36.7
	2605	-10.7	30.4		805	-4.7	36.4
	2805	-12.0	29.1		1005	-4.8	36.3
	3005	-13.2	27.9		1205	-4.8	36.3
	3205	-14.7	26.4		1405	-4.4	36.7
	3325	-15.5	25.6		1605	-4.4	36.7
	3405	-15.6	25.5		1655	-4.6	36.5
	3605	-16.1	25.0		1805	-5.2	35.9
	3795	-17.0	24.1		2005	-6.4	34.7
	3935	-18.7	22.4				

541.14

W180	R205	-7.7	533.4
	R405	-9.0	32.1
	R605	-10.6	30.5
	R805	-11.9	29.2
	R005	-13.4	27.7
	R205	-14.7	26.4
	R405	-16.1	25.0
	R605	-17.0	24.1 +
	R805	-17.7	23.4
	R995	-18.4	22.7
	4065	-21.4	19.7
WR00	111N	-1.0	40.1
	100N	-1.4	39.7
	80N	-2.0	39.1
	60N	-2.7	38.4
	40N	-3.2	37.9
	20N	-3.5	37.6
	0.0	-4.0	37.1
	R05	-4.2	36.9

541.14

WR00	405	-4.6	536.5
	605	-5.0	36.1
	805	-5.3	35.8
	1005	-5.2	35.9
	1205	-5.0	36.1 +
	1405	-4.8	36.3
	1605	-4.7	36.4
	1655	-4.8	36.3
	1805	-5.4	35.7
	R05	-6.5	34.6
	R205	-8.0	33.1
	R405	-9.2	31.9
	R605	-10.6	30.5
	R805	-12.0	29.1
	R005	-13.3	27.8
	R20	-15.2	25.9
	R40	-16.4	24.7
	R60	-17.8	23.3 +
	R80	-18.2	22.9
	409	-19.0	22.1

		546.14	
WR20	114N	-1.5	539.6
	100N	-1.6	39.5
	80N	-2.1	39.0
	60N	-2.9	38.2
	40N	-3.4	37.7
	20N	-3.8	37.3
	0.0	-4.2	36.9
	20S	-4.5	36.6
	40S	-4.9	36.2
	60S	-5.2	35.9
	80S	-5.4	35.7
	100S	-5.5	35.6
	120S	-5.2	35.9
	140S	-5.1	36.0
	160S	-4.9	36.2
	165S	-5.0	36.1
	180S	-5.6	35.5
	200S	-6.7	34.4
	220S	-8.2	32.9

		546.14	
WR20	240S	-8.6	532.5
	260S	-10.8	30.3
	280S	-12.1	29.0
	300S	-13.5	27.6
	320S	-15.1	26.0
	340S	-16.6	24.5
	360S	-17.2	23.9
	380S	-19.3	21.8
WR240	112N	-2.3	38.8
	100N	-2.3	38.8
	80N	-2.6	38.5
	60N	-3.2	37.9
	40N	-3.6	37.5
	20N	-4.0	37.1
	0.0	-4.3	36.8
	20S	-4.6	36.5
	40S	-5.0	36.1
	60S	-5.3	35.8
	80S	-5.7	35.4

		541.14	
WR40	100s	-5.7	535.4
	120s	-5.6	35.5
	140s	-5.3	35.8
	160s	-5.1	36.0
	165s	-5.2	35.8
	180s	-5.7	35.4
	200s	-7.0	34.1
	220s	-8.4	32.7
	240s	-9.8	31.3
	260s	-11.1	30.0
	280s	-12.3	28.8
	300s	-13.7	27.4
	320s	-15.2	25.9
	340s	-16.6	24.5
	360s	-18.3	22.8
	375s	-19.4	21.7
WR60	110N	-2.7	38.4
	100N	-3.1	38.0
	80N	-3.0	38.1

		541.14	
WR60	60N	-3.3	537.8
	39N	-3.5	37.6
	12N	-3.5	37.6
	0+0	-3.9	37.2
	20s	-4.7	36.4
	40s	-5.2	35.9
	60s	-5.8	35.3
	80s	-6.1	35.0
	100s	-6.2	34.9
	120s	-5.9	35.2
	140s	-5.7	35.4
	160s	-5.6	35.5
	165s	-5.7	35.4
	180s	-6.0	35.1
	200s	-6.3	33.8
	220s	-8.7	32.4
	240s	-10.0	31.1
	260s	-11.7	29.4
	280s	-12.9	28.2

		541.14	
WR60	300s	14.1	527.0
	320s	15.6	25.5
	340s	16.7	24.4
WR80	110N	-3.1	38.0
	100N	-3.3	37.8
	80N	-3.7	37.4
	60N	-4.1	37.0
	40N	-4.9	36.2
	20N	-4.0	37.1
	0+0	-4.4	36.7
	20s	-4.5	36.3
	40s	-5.4	35.7
	60s	-6.1	35.0
	80s	-6.5	34.6
	100s	-6.5	34.6
	120s	-6.3	34.8
	140s	-6.0	35.1
	160s	-6.0	35.1
	165s	-6.1	35.0

		541.14	
WR80	180s	-6.6	534.5
	200s	-7.9	33.2
	220s	-10.0	31.1
	240s	-12.0	29.1
	244s	0.6	28.2
WR80	100N	-4.7	36.4
	80N	-3.9	37.2
	60N	-4.0	37.1
	40N	-4.1	37.0
	20N	-4.5	36.6
	0+0	-4.6	36.5
	20s	-5.0	36.1
	40s	-5.7	35.4
	60s	-6.2	34.9
	80s	-7.0	34.1
	100s	-7.0	34.1
	120s	-6.7	34.4
	140s	-7.4	33.7
	179s	0.6	30.6
CHECK B.M.		-6.74	534.40

CHECKED EWE 4-1-49

Notes Reduced
B-30-49
0.5

MARCH 31, 1949.

LEONARD
PAYNE
CARYER

13.

X-SECTIONS - CONT'D.

549.44

R.M.	+ 2.78	549.44	546.66	SALT TANK.	W190 R40N	-10.7	538.7
W200	114N	-8.6	540.8		260N	-11.5	37.9
	120N	-8.5	40.9		W170 116N	-7.4	42.0
	140N	-8.5	40.9		120N	-7.3	42.1
	153N	-8.4	41.0		140N	-7.1	42.3
	158N	-10.0	39.4		154N	-7.5	41.9
	180N	-10.6	38.8		160N	-8.2	41.2
	200N	-10.5	38.6		180N	-8.4	41.0
	220N	-11.2	38.2		200N	-8.5	40.9
	240N	-12.1	37.3		210N	-8.5	40.9
	260N 0.6	-13.2	36.2		225N	-8.8	41.1
W150	115N	-7.7	41.7		230N	-7.9	41.5
	120N	-7.6	41.8		240N	-8.3	41.1
	140N	-7.6	41.8		250N	-8.9	40.5
	154N	-7.9	41.5		260N	-10.5	38.9
	160N	-8.9	40.5		W160 117N	-7.1	42.3
	180N	-9.3	40.1		120N	-7.0	42.4
	200N	-9.8	39.6		140N	-6.8	42.6
	220N	-10.0	39.4		160N	-7.3	42.1

		549.4	
W160	180N	-7.8	542.1
	200N	-7.2	42.2
	210N	-6.9	42.5
	222N	-7.3	42.1
	230N	-5.4	44.0
	240N	-4.8	44.6
	250N	-6.0	43.4
	260N	-8.5	40.9
W160	210N	-6.1	43.3
	221N	-7.1	42.3
	230N	-3.0	46.4
	240N	-2.4	47.0
	250N	-3.5	45.9
	260N	-7.2	42.2
W140	120N	-6.8	43.1
	140N	-5.9	43.5
	160N	-6.1	43.3
	180N	-5.9	43.5
	200N	-6.0	43.4

		549.4	
W140	210N	-5.7	543.7
	221N	-6.8	42.6
	229N	-2.5	46.9
	250N	-2.5	46.9
Cont. - Bk 738 P. 14	260N	-7.0	42.4
W120	121N	-5.4	44.0
	140N	-5.1	44.3
	160N	-5.3	44.1
	180N	-5.3	44.1
	200N	-5.1	44.3
	210N	-5.2	44.2
	221N	-6.3	43.1
	229N	-2.7	46.7
	250N	-2.5	46.9
Cont. Bk 738 P. 14	260N	-6.6	42.8
W100	122N	-4.8	44.6
	140N	-4.5	44.9
	160N	-4.6	44.8
	180N	-4.5	44.9

549.4

W100	200N	-4.6	544.8
	210N	-4.8	44.6
	221N	-5.9	43.5
	229N	-2.5	46.9
	250N	-2.3	47.1
Cont. Bk 738 P3 14	260N	-6.5	42.9
W80	124N	-4.8	45.1
	140N	-4.2	45.2
	160N	-4.2	45.2
	180N	-4.1	45.3
	200N	-4.8	45.1
	210N	-4.4	45.0
	222N	-5.4	44.0
	229N	-2.5	46.9
	250N	-2.2	47.2
Cont. Bk 738 P3 14	260N	-6.5	42.9
W60	124N	-4.1	45.3
	140N	-4.0	45.4
	160N	-4.1	45.3

549.4

W60	180N	-3.9	545.5
	200N	-4.2	45.2
	210N	-4.1	45.3
	222.5N	-5.1	44.3
	230N	-2.3	47.1
	250N	-2.2	47.2
	260N	-6.7	42.7
W40	125N	-4.0	45.4
	140N	-4.0	45.4
	160N	-4.1	45.3
	180N	-4.0	45.4
	200N	-4.0	45.4
	210N	-4.0	45.4
	222N	-5.3	44.1
	230N	-2.4	47.0
	250N	-2.4	47.0
	260N	-6.6	42.8
W20	125N	-4.0	45.4
	140N	-4.0	45.4

549.4

W 20	160N	-4.1	545.3
	180N	-4.1	45.3
	200N	-4.1	45.3
	210N	-4.2	45.2
	222N	-5.1	44.3
	230N	-2.4	47.0
	250N	-2.5	46.9
	260N	-6.4	43.0
O-O	125N	-4.0	45.4
	140N	-4.0	45.4
	160N	-4.0	45.4
	180N	-4.0	45.4
	200N	-4.1	45.3
	210N	-4.3	45.1
	222N	-5.1	44.3
	230N	-2.4	47.0
	250N	-2.4	47.0
	260N	-6.4	43.0

549.4

E 20	125N	-4.0	545.4
	140N	-4.0	45.4
	160N	-4.0	45.4
	180N	-3.9	45.5
	200N	-4.1	45.3
	210N	-4.2	45.2
	221.5N	-5.1	44.3
	230N	-2.4	47.0
	250N	-2.4	47.0
	260N	-6.9	42.5
E 40	125N	-4.0	45.4
	140N	-3.9	45.5
	160N	-4.0	45.4
	180N	-4.0	45.4
	200N	-4.1	45.3
	210N	-4.3	45.1
	221.5N	-5.1	44.3
	230N	-2.4	47.0
	250N	-2.5	46.9
	260N	-7.0	42.4

549.4

549.4

E60	115N		-3.9	545.5
	120N		-4.0	545.4
	140N		-3.9	45.5
	160N		-4.0	45.4
	180N		-4.0	45.4
	200N		-4.0	45.4
	210N		-4.2	45.2
	221.5N		-5.1	44.3
	230N		-2.4	47.0
	250N		-2.4	47.0
	260N		-2.0	42.4
E80	105N	SAND	-3.4	46.0
	120N		-4.0	45.4
	140N		-4.0	45.4
	160N		-4.0	45.4
	180N		-3.9	45.5
	200N		-4.0	45.4
	210N		-4.1	45.3
	221N		-4.9	44.5
	229N		-2.6	46.8

E90	NR50		-2.5	546.9
	NR60		-2.0	42.4
E100	103N		-3.8	45.6
	120N		-4.0	45.4
	140N		-4.0	45.4
	152N		-4.1	45.3
	195N		-4.0	45.4
	200N		-4.1	45.3
	210N		-4.1	45.3
	221N		-4.8	44.6
	229N		-2.5	46.9
	250N		-2.5	46.9
	260N		-6.8	42.6
E120	101N		-3.6	45.8
	120N		-3.9	45.5
	140N		-4.0	45.4
	152N		-4.1	45.3
	195N		-4.0	45.4
	200N		-4.1	45.3

549.4

E 120	210N	-4.1	545.3
	221N	-4.8	44.6
	229N	-2.4	47.0
	250N	-2.4	47.0
	260N	-6.9	42.5
E 140	101N	-3.5	45.9
	120N	-4.0	45.4
	140N	-4.0	45.4
	146N	-4.0	45.4
	195N	-4.0	45.4
	200N	-4.2	45.2
	210N	-4.1	45.3
	221N	-4.8	44.6
	229N	-2.5	46.9
	250N	-2.4	47.0
	260N	-6.9	42.5
E 160	101N	-3.6	45.8
	120N	-4.0	45.4
	140N	-4.0	45.4

549.4

E 160	147N	-3.9	545.5
	195N	-4.1	45.3
	200N	-4.2	45.2
	210N	-4.2	45.2
	221N	-4.7	44.7
	229N	-2.4	47.0
	250N	-2.3	47.1
	260N	-6.9	42.5
E 180	91N	-3.7	45.7
	100N	-3.9	45.5
	120N	-4.0	45.4
	140N	-4.0	45.4
	160N	-4.0	45.4
	180N	-4.0	45.4
	200N	-4.1	45.3
	210N	-4.1	45.3
	221N	-4.7	44.7
	229N	-2.4	47.0
	250N	-2.3	47.1
	260N	-6.7	42.7

		549.4	
ER00	81N	-3.5	545.9
	100N	-4.0	45.4
	120N	-4.1	45.3
	140N	-4.0	45.4
	160N	-4.1	45.3
	180N	-4.2	45.2
	200N	-4.1	45.3
	210N	-4.2	45.2
	222N	-4.7	44.7
	229N	-2.5	46.9
	250N	-2.5	46.9
	260N	-6.1	43.3
ER20	270N	-3.7	45.7
94N	100N	-3.9	45.5
	120N	-3.9	45.5
	140N	-4.0	45.4
	160N	-4.0	45.4
	180N	-4.1	45.3
	200N	-4.1	45.3

		549.4	
ER20	210N	-4.2	545.2
	222N	-4.6	44.8
	229N	-2.4	47.0
	250N	-2.4	47.0
	Cont. Blk 738 B 15 260N	-6.0	43.4
ER40	81N	-4.3	45.1
	100N	-3.9	45.5
	120N	-4.0	45.4
	140N	-4.0	45.4
	160N	-4.1	45.3
	180N	-4.1	45.3
	200N	-4.1	45.3
	210N	-4.3	45.1
	222N	-4.7	44.7
	229N	-2.5	46.9
	250N	-2.1	47.3
	260N	-5.6	43.8
	270N	-8.6	40.8
	Cont. Blk 738 - B 15 280N	-11.8	37.6

549.4

549.4

ER60	1180	-4.1	545.3
	100N	-3.8	45.6
	120N	-3.9	45.5
	140N	-4.0	45.4
	160N	-4.2	45.2
	180N	-4.1	45.3
	200N	-4.1	45.3
	210N	-4.2	45.2
	222N	-4.8	44.6
	230N	-2.5	46.9
	250N	-2.2	47.2
	260N	-5.1	44.3
	270N	-7.8	41.6
Count-Bk 738-Pg 15	280N	-11.2	38.2
ER80	80N	-4.0	45.4
	100N	-3.8	45.6
	120N	-4.0	45.4
	140N	-3.9	45.5
	160N	-4.1	45.3

ER80	180N	-4.2	545.2
	200N	-4.1	45.3
	210N	-4.2	45.2
	223N	-4.5	44.9
	229N	-2.3	47.1
	250N	-2.2	47.2
	260N	-4.7	44.7
	270N	-7.7	41.7
Count-Bk 738-Pg 15	280N	-10.4	39.0
ER00	80N	-4.0	45.4
	100N	-3.7	45.7
	120N	-3.9	45.5
	140N	-4.0	45.4
	160N	-4.1	45.3
	180N	-4.1	45.3
	200N	-4.1	45.3
	210N	-4.2	45.2
	222N	-4.6	44.8
	230N	-2.8	47.1

549.4

549.4

E300	250 N	-2.2	547.2
	260 N	-4.1	45.3
	270 N	-7.8	42.1
	280 N	-9.5	39.9
Cont. - Bk 738 - Pg 15	290 N	-10.8	38.6
E320	80 N	-4.1	45.3
	100 N	-3.9	45.5
	120 N	-3.8	45.6
	140 N	3.9	45.5
	160 N	4.1	45.3
	180 N	-4.0	45.4
	200 N	-4.1	45.3
	210 N	-4.2	45.2
	222 N	-4.6	44.8
	230 N	-2.5	47.1
	250 N	-2.8	47.1
	260 N	-4.8	45.1
	270 N	-6.6	42.8
	280 N	-9.0	40.4
Cont. Bk 738 Pg 16	293 N 0.6	10.7	38.7

E348	106 N	-3.7	545.7
	120 N	-3.9	45.5
	140 N	-3.9	45.5
	160 N	-4.1	45.3
	180 N	-4.2	45.2
	200 N	-4.6	44.8
	210 N	-4.7	44.7
	222 N	-4.7	44.7
	250 N	-5.1	44.3
	260 N	-6.3	43.1
	270 N	-7.1	42.3
	280 N	-7.6	41.8
	290 N	-8.1	41.3
	300 N 0.6	-8.9	40.5
E338	224 N	-4.5	44.9
E337	235 N	-2.4	47.0
E336	243 N	-2.3	47.1
E350	228 N	-6.0	43.4
E350	250 N	-6.6	42.8

		549.44	
E360	106 H	-4.0	545.4
	120 H	-4.0	45.4
	140 N	-4.0	45.4
	159 H	-4.1	45.3
	168 H	-5.1	44.3
	180 H	-5.2	44.2
	200 H	-5.4	44.0
	210 H 0.6	-5.5	43.6
E380	106 N	-4.1	45.3
	120 N	-4.0	45.4
	140 N	-4.0	45.4
	152 N	-4.1	45.3
	157 H	-5.0	44.4
	170 N	-4.9	44.5
	180 H	-4.9	44.5
	186 N 0.6	-4.8	44.6
T.P. Cor. Tough Scale		-2.86	546.58
	+1.90		548.48
B.M. Conc. Mon. 5882.		-10.01	538.47

		548.5	
E380	78 N	-6.9	541.6
	80 N	-4.0	44.5
	85 N	-3.1	45.4
	96 H	-2.9	45.6
E400	68 H	-8.8	39.7
	84 H	-2.9	45.6
	96 H	-2.5	46.0
	120 H	-2.9	45.6
	140 H	-3.0	45.5
	152 N	-3.1	45.4
	156 N	-3.9	44.6
	170 N	-3.8	44.7
	176 N 0.6	-4.0	44.5
E420	71 N	-7.9	40.6
	84 N	-3.2	45.3
	104 N	-3.6	44.9
	120 N	-2.9	45.6
	140 H	-3.0	45.5
	152 N	-3.2	45.3
	155 N	-4.0	44.5
	166 N 0.6	-4.0	44.5

548.5

548.5

E 440	60N	-8.7	539.8
	72N	-7.0	41.5
	83.5N	-3.9	45.2
	100N	-8.7	45.8
	120N	-8.1	45.4
	140N	-8.1	45.4
	150N	-8.9	45.2
	154N	-4.8	44.2
E 460	72N	-6.3	42.2
	83.5N	-8.9	45.2
	98N	-8.7	45.8
	120N	-8.1	45.4
	140N	-8.2	45.3
	151.5N	-3.2	45.3
	154N	-4.1	44.4
	160N	-4.8	44.2
E 480	71N	-7.9	41.2
	83.5N	-8.2	45.3
	98N	-2.6	45.9

E 490	120N	-8.2	545.3
	140N	-8.2	45.3
	151N	-3.9	45.2
	155N	-4.5	44.0
	160N	-4.4	44.1
E 500	71.5N	-7.5	41.0
	83.5N	-8.1	45.4
	98N	-2.6	45.9
	111N	-2.8	45.7
	123N	-3.2	45.3
	140N	-8.2	45.3
	152N	-8.3	45.2
	156N	-4.6	43.9
	160N	-4.6	43.9
E 520	71N	-7.6	40.9
	83.5N	-2.9	45.6
	98N	-2.5	46.0
	123N	-3.3	45.2
	140N	-3.1	45.4
	151.5N	-3.2	45.3
	158N	-4.9	43.6

548.5

E 540	72N	-7.7	540.8
	83.5N	-3.0	45.5
	100N	-2.9	45.6
	111N	-3.2	45.3
	123N	-3.3	45.2
	140N	-3.0	45.5
	151.5N	-3.2	45.3
	157N	-4.7	43.8
E 560	72N	-7.1	41.4
	83.5N	-3.1	45.4
	100N	-2.9	45.6
	120N	-3.0	45.5
	140N	-2.9	45.6
	150.5N	-3.1	45.4
	156N	-4.3	44.2
E 571	72N	-6.8	41.7
	83N	-4.2	44.3
	92N	-3.3	45.2
	100N	-3.4	45.1

548.48

E 571	120N	-3.4	545.1
	140N	-3.1	45.4
	153N	-4.4	44.1
E 580	50N	-6.3	42.2
	100N	-5.6	42.9
	117N	-4.9	43.6
	122N	-4.0	44.5
	130N	-3.6	44.9
	140N	-3.7	44.8
	149N	-4.7	43.8
E 600	40N	-7.9	40.6
	60N	-6.8	41.7
	80N	-6.2	42.3
	100N	-5.8	42.7
	120N	-4.9	43.6
	136N	-5.0	43.5
	140N	-4.2	44.3
	CHECK R.T.T.	-10.	538.47

Plotted

APRIL 4, 1949

LEONARD
PAYNE
CARVER

25

ADDITIONAL SECTIONS ALONG W. BANK FUTURE FILTER AREA

B.M. + 8.86	548.26	584.40	548.26		
W168 N40	-4.7	538.6	W172 N40	-4.6	538.7
N20	-4.6	38.7	N20	-4.5	38.8
0+0	-4.6	38.7	0+0	-4.6	38.7
520	-4.7	38.6	520	-4.7	38.6
540	-4.7	38.6	540	-4.8	38.5
560	-4.8	38.5	560	-5.4	37.9
580	-4.8	38.5	580	-5.7	37.6
590	-5.2	38.1	590	-6.6	36.7
595	-6.8	36.5	595	-7.0	36.3
W170 N40	-4.6	38.7	W174 N40	-4.6	38.7
N20	-4.5	38.8	N20	-4.6	38.7
0+0	-4.6	38.7	0+0	-4.7	38.6
520	-4.7	38.6	520	-4.8	38.5
540	-4.8	38.5	540	-5.5	37.8
560	-4.9	38.4	560	-6.0	37.3
580	-5.1	38.2	580	-6.5	36.8
590	-5.6	37.7	595	-7.0	36.3
595	-7.0	36.3			

		543.26				543.26	
W 176	N 40	-4.6	538.7	W 182	N 40	-4.7	538.6
	N 20	-4.6	38.7		N 20	-5.1	38.2
	0+0	-4.7	38.6		0+0	-5.9	37.4
	S 20	-5.1	38.2		S 20	-6.2	37.1
	S 40	-6.0	37.9		S 40	-6.3	37.0
	S 60	-6.5	36.8		S 60	-6.7	36.6
	S 80	-6.6	36.7		S 80	-7.0	36.5
	S 95	-6.9	36.4		S 95	-7.1	36.2
W 178	N 40	-4.6	38.7	W 184	N 40	-5.0	38.3
	N 20	-4.6	38.7		N 20	-5.0	38.0
	0+0	-4.8	38.5		0+0	-5.8	37.5
	S 20	-5.5	37.8		S 20	-6.3	37.0
	S 40	-6.2	37.1		S 40	-6.4	36.9
	S 60	-6.5	36.8		S 60	-6.7	36.6
	S 80	-6.7	36.6		S 80	-7.1	36.2
	S 95	-7.0	36.5		S 95	-7.2	36.1
				CHECK R.M.		-8.86	534.40

CHECKED REDUCING FWE 4-4-49

N.E. LEVEL 106346

APRIL 12, 1950

LEONARD, K. NOTES, CHAIN
CARVER, ROD & CHAIN 27.RE-X-SECTION ROADWAY AREA SOUTH OF ZENITE
AND SETTLING BASINS BEFORE BACKFILLING & GRADING.B.M. +4.85 535.17 RIM M.H. 5177
530.32 E 60

W40	S 130	-3.6	531.6
"	S 150	-3.6	531.6
"	S 170	-3.8	531.4
"	S 190	-4.8	530.4
"	S 210	-6.2	529.0
"	S 230	-7.4	527.8
"	S 250	-8.3	526.9
W20	S 130	-4.3	530.9
"	S 150	-3.1	532.1
"	S 170	-3.7	531.5
"	S 190	-5.0	530.2
"	S 210	-6.9	528.3
"	S 230	-8.1	527.1
"	S 250	-8.8	526.4
AXIS	S 130	-5.0	530.2
"	S 150	-2.1	533.1

APRIL 12, 1950

LEONARD, NOTES & CHAIN
CARVER, ROD & CHAIN 28.
ART THOMAS - T

X-SECTIONS OF ROADWAY AREA, CONT'D.

535.17

AXIS	S 170	-3.8	531.4
"	S 190	-5.5	529.9
"	S 210	-7.2	529.0
"	S 230	-8.0	527.2
"	S 250	-9.2	526.0
E 20	S 130	-2.9	532.3
"	S 150	-2.4	532.8
"	S 170	-3.3	531.9
"	S 190	-5.4	529.8
"	S 210	-7.2	528.0
"	S 230	-7.6	527.6
"	S 243 S 250	-7.9	527.3
E 40	S 130	-2.9	532.3
"	S 150	-3.1	532.1
"	S 170	-3.9	531.3
"	S 190	-5.5	529.7
"	S 210	-7.1	528.1
"	S 230	-7.8	527.4
"	S 243	-8.3	526.9

X-SECTIONS OF ROADWAY AREA SOUTH OF SETTLING
BASINS BEFORE GRADING FOR ROAD.

R. 17,	+4.98	535.80	^{S 170} RIM C.H. E 60	530.32
E 60	S 160		-4.1	531.2
"	S 170		-4.3	531.0
"	S 190		-5.5	529.8
"	S 210		-7.1	528.2
"	S 230		-8.2	527.1
"	S 250		-8.7	526.6
E 80	S 160		-3.9	531.4
"	S 170		-4.3	531.0
"	S 190		-5.3	530.0
"	S 210		-7.0	528.3
"	S 230		-8.3	527.0
"	S 250		-9.4	525.9
E 100	S 160		-4.2	531.1
"	S 170		-4.4	530.9
"	S 190		-5.4	529.9
"	S 210		-7.0	528.3
"	S 230		-8.6	526.7

X-SECTIONS OF ROADWAY AREA, CONT'D

H.d.		535.30		H.d.		535.30	
E100	3250	-9.4	525.9	E160	3250	-9.1	525.6
E120	5160	-4.6	530.7	E180	5160	-4.7	530.6
"	5170	-4.6	530.7	"	5170	-5.4	529.9
"	5190	-5.7	529.6	"	5190	-5.8	529.5
"	5210	-7.2	528.1	"	5210	-6.8	528.5
"	5230	-8.8	526.5	"	5230	-9.3	526.0
"	5250	-9.6	525.7	"	5250	-9.8	525.5
E140	5160	-4.8	530.5	E200	5160	-4.9	531.0
"	5170	-4.8	530.5	"	5170	-5.5	529.8
"	5190	-6.0	529.3	"	5190	-5.7	529.6
"	5210	-7.5	528.0	"	5210	-6.7	528.6
"	5230	-9.0	526.3	"	5230	-9.0	526.3
"	5250	-9.6	525.7	"	5250	-10.0	525.3
E160	5160	-4.8	530.5	E220	5170	-5.4	529.9
"	5170	-5.1	530.2	"	5190	-6.0	529.3
"	5190	-6.0	529.3	"	5210	-6.9	528.4
"	5210	-7.0	528.3	"	5230	-9.0	526.3
"	5230	-8.9	526.4	"	5250	-10.2	525.1
				CHECK B.M.		-4.98	530.32
						CK'd -	corr 4-12-50

K+E. LEVEL #106346
K+E. P10 #6210 CR-13
CLEAR, WATT.

AUGUST 7, 1950 LEONARD K. BAKER - P10 30.
9:30 A.M.

FILTER BED #3. TROUGHS EMPTY.

B.M. +11.11 547.50 536.39 ON DAM

SET B.M. ON SW COR. GAS PUMP. -1.133 546.367

+4.760 551.127

SET
B.M. IN WALK, CENTER FILTER BED #3. -1.150 549.977

H.I. +1.093 551.070

EAST SIDE:

TROUGH A: S. LIP

SIGHT OBSCURED.

N. LIP

-6.128 544.942

" B: S. LIP

-6.126 544.944

N. "

-6.126 544.944

" C: S. "

BENEATH WALK

N. "

" "

" D: S. "

-6.114 544.956

N. "

-6.120 544.950

" E: S. "

-6.124 544.946

N. "

-6.131 544.939

" F: S. "

-6.093 544.977

N. "

-6.094 544.976

1 CHISELED \square IN S.W. COR. GAS PUMP BLOCK, WEST OF FLAG TRANS-
2 FORMER STATION.

NOTE: TROUGHS ARE NUMBERED FROM SOUTH END OF
TANK, EAST OR WEST A, B, C, ETC. TO NORTH END.

1ST READING IN EACH CASE IS ON S. LIP OF TROUGH.

ALL SHOTS IN CENTER OF TROUGH.

Aug. 7, 1950.

31.

FILTER BED #3, TROUGH FLEY'S, CONT'D.

EAST SIDE:

551.070

TROUGH G: S. LIP

-6.100

544.970

" " N. "

-6.111

544.959

" H: S. "

BENEATH WALK

" " N. "

" "

" I: S. "

-6.098

544.972

" " N. "

-6.108

544.962

" J: S. "

-6.100

544.970

" " N. "

-6.094

544.976

WEST SIDE:

TROUGH A: S. LIP

-6.120

544.950

" " N. "

-6.120

544.950

" B: S. "

-6.120

544.940

" " N. "

-6.127

544.943

" C: S. "

BENEATH WALK

" " N. "

" "

" D: S. "

-6.127

544.943

" " N. "

-6.122

544.948

Aug. 7, 1950

32.

FILTER RED #3 TROUGH FLEY'S CONT'D.

WEST SIDE: CONT'D. 551,070

TROUGH E: S. LIP	-6.116	544.954
" " N. "	-6.120	544.950
" F: S. "	-6.123	544.947
" " N. "	-6.115	544.955
" G: S. "	-6.116	544.954
" " N. "	-6.114	544.956
" H: S. "		BENEATH WALK
" " N. "		" "
" I: S. "	-6.119	544.951
" " N. "	-6.106	544.964
" J: S. "	-6.118	544.952
" " N. "	-6.124	544.946
CHECK T.B.M.	-1.093	549.977

K. + E. LEVEL #106346
K. + E. P.O. 6210-CR-13.

AUG. 7, 1950

LEONARD
BAKER.

SS.

12:30 P.M.

FILTER BED #3 - TROUGHS FILLED WITH WATER.

T.B.M. + 1.093

551.070

549.977

TOP OF
WALKWAY

EAST SIDE:

TROUGH A: N. LIP

-6.127

544.949

" B: S. LIP

-6.126

544.944

" " N. "

-6.124

544.946

" D: S. "

-6.113

544.956

" " N. "

-6.118

544.952

" E: S. "

-6.123

544.947

" " N. "

-6.100

544.940

" F: S. "

-6.090

544.980

" " N. "

-6.093

544.977

" G: S. "

-6.097

544.973

" " N. "

-6.110

544.960

" I: S. "

-6.097

544.973

" " N. "

-6.105

544.965

" J: S. "

-6.095

544.975

" " N. "

-6.094

544.976

Aug 7, 1950

34.

FILTER BED ^{NO} 3, TROUGHS FILLED - CONT'D.

551.070

WEST SIDE:

TROUGH A. S. LIP	-6.119	544.951
" " N "	-6.117	544.953
" B. S. "	-6.128	544.942
" " N. "	-6.125	544.945
" D. S. "	-6.125	544.946
" " N. "	-6.120	544.950
" E. S. "	-6.115	544.955
" " N. "	-6.117	544.953
" F. S. "	-6.122	544.948
" " N. "	-6.116	544.954
" G. S. "	-6.114	544.956
" " N. "	-6.114	544.956
" I. S. "	-6.113	544.957
" " N. "	-6.101	544.969
" J. S. "	-6.117	544.953
" " N. "	-6.120	544.950
CHECK T. B. M.	-6.093	549.977

AUG. 8, 1950
1 P.M.

N.E. LEVEL #106546
N.E. ROD 6210-CR-13.

AUG. 8, 1950
9 A.M.

LEONARD-K
BAKER - ROD 35.

FILTER BED #1, TROUGHS FILLED WITH WATER.

T.B.M. +1.226	551.203	549.977
EAST SIDE. TROUGH A: N. LIP	-6.258	544.945
" B: S. "	-6.250	544.953
" " N. "	-6.254	544.949
" D: S. "	-6.258	544.945
" " N. "	-6.259	544.944
" E: S. "	-6.252	544.951
" " N. "	-6.258	544.945
" F: S. "	-6.254	544.949
" " N. "	-6.258	544.945
" G: S. "	-6.249	544.960
" " N. "	-6.248	544.955
" I: S. "	-6.262	544.941
" " N. "	-6.254	544.949
" J: S. "	-6.247	544.956
" " N. "	-6.250	544.953

FILTER BED #1, TROUGHS EMPTY.

T.B.M. +1.145	551.122	CENTER OF WALK OVER 549.977 RED 35.
EAST SIDE. TROUGH A: N. LIP	-6.176	544.946
" B: S. "	-6.170	544.952
" " N. "	-6.174	544.948
" D: S. "	-6.177	544.945
" " N. "	-6.177	544.945
" E: S. "	-6.170	544.952
" " N. "	-6.175	544.947
" F: S. "	-6.175	544.947
" " N. "	-6.178	544.944
" G: S. "	-6.169	544.959
" " N. "	-6.168	544.954
" I: S. "	-6.181	544.941
" " N. "	-6.174	544.948
" J: S. "	-6.169	544.953
" " N. "	-6.169	544.953

NOTE: TROUGHS LETTERED A, B, C, ETC. FROM SOUTH END OF EACH BED. TROUGHS "C" AND "H" LIE BENEATH WALKWAYS, SPOTS TAKEN MIDWAY BETWEEN WALL AND GULLETT.

CONT'D.

1 P.M.

FILTER BED #1, TROUGHS FILLED WITH WATER, CONT'D.

H. d.	551.208	-
WEST SIDE:		
TROUGH A: S. LIP	-6.257	544.946
" " H. "	-6.242	544.961
" B: S. "	-6.264	544.939
" " H. "	-6.249	544.954
" D: S. "	-6.258	544.945
" " H. "	-6.258	544.945
" E: S. "	-6.259	544.944
" " H. "	-6.252	544.951
" F: S. "	-6.248	544.955
" " H. "	-6.238	544.965
" G: S. "	-6.258	544.950
" " H. "	-6.243	544.960
" I: S. "	-6.259	544.944
" " H. "	-6.248	544.955
" J: S. "	-6.256	544.957
" " H. "	-6.250	544.958
CHECK T.B.M.	-1.226	

9 A.M.

86.

FILTER BED #1 - TROUGHS EMPTY - CONT'D.

H. d.	551.122	
WEST SIDE:		
TROUGH A: S. LIP	-6.176	544.946
" " H. "	-6.162	544.960
" B: S. "	-6.183	544.939
" " H. "	-6.167	544.955
" D: S. "	-6.178	544.944
" " H. "	-6.176	544.946
" E: S. "	-6.178	544.944
" " H. "	-6.171	544.951
" F: S. "	-6.165	544.957
" " H. "	-6.158	544.964
" G: S. "	-6.171	544.951
" " H. "	-6.164	544.958
" I: S. "	-6.179	544.943
" " H. "	-6.170	544.952
" J: S. "	-6.172	544.950
" " H. "	-6.169	544.953
CHECK T.B.M.	-1.146	549.976 ⁽⁰⁰¹⁾ ₍₂₀₀₎

K. & E. LEVEL #106346
K. & E. ROD 6210-CR-13

AUG. 7, 1950

LEONARD
BAKER

89.

E. LEVELS, UNDER STORAGE BINS IN HEADHOUSE.

R.M. +4.680	551.017	-	546.367	⁶⁴³ PUMP
T.R.M.		-13.067	537.980	STEEL SILL OF ELEV. SHAFT
+5.05	543.030			
N. SIDE COL. #1		-5.037	537.993	
W. " " #2		-5.054	537.976	
W. WALL OPP COL. #3		-5.046	537.984	
W. SIDE COL. #5		-5.040	537.990	
WALL AT A-5		-5.039	537.991	
" " SUMP-T.P.		-5.048	537.982	
H.d. +5.157	543.119			
N. SIDE COL. #7		-5.136	537.983	
N. " COL. #6-B				CANT GET 7' ROD UNDER VENT PIPE.
N. " ^{S. OF} DORWAY #5-R' T.P.		-5.134	537.985	
H.d. +5.245	543.230			
S. SIDE COL. #8		-5.244	537.986	
W. SIDE COL. #C-5		-5.241	537.989	
W. SIDE COL. #C-4		-5.248	537.982	
S.W. COR. COL. #C-3		-5.243	537.987	T.P.

K.F.E. LEVEL #106346
K.F.E. ROD #6210-CR-13
5' TUNNEL ROD AS NOTED.

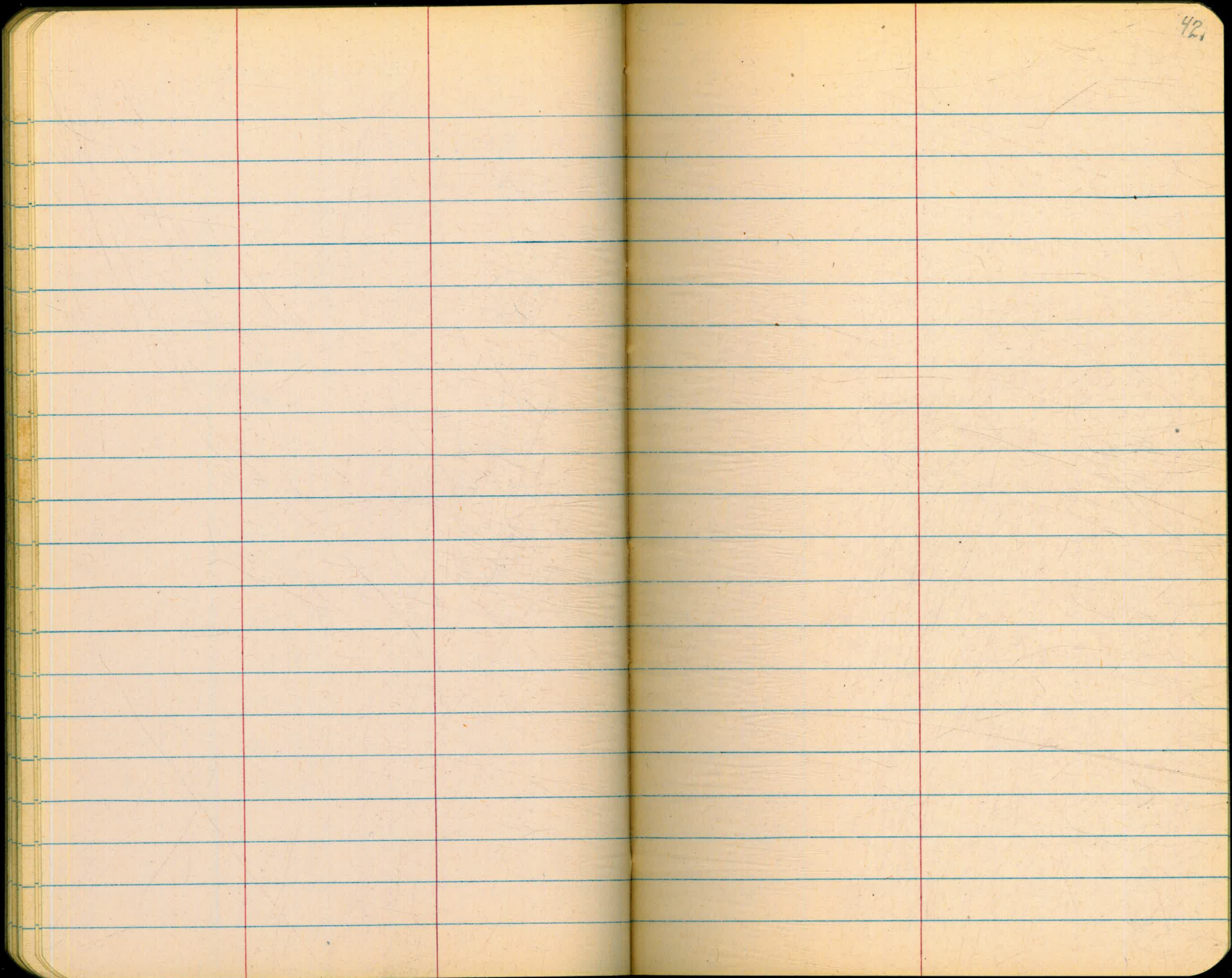
AUG. 5, 1950 LEONARD - K
BAKER - ROD 40.

ELEV'S UNDER STORAGE BINS IN HEADHOUSE - CONT'D.

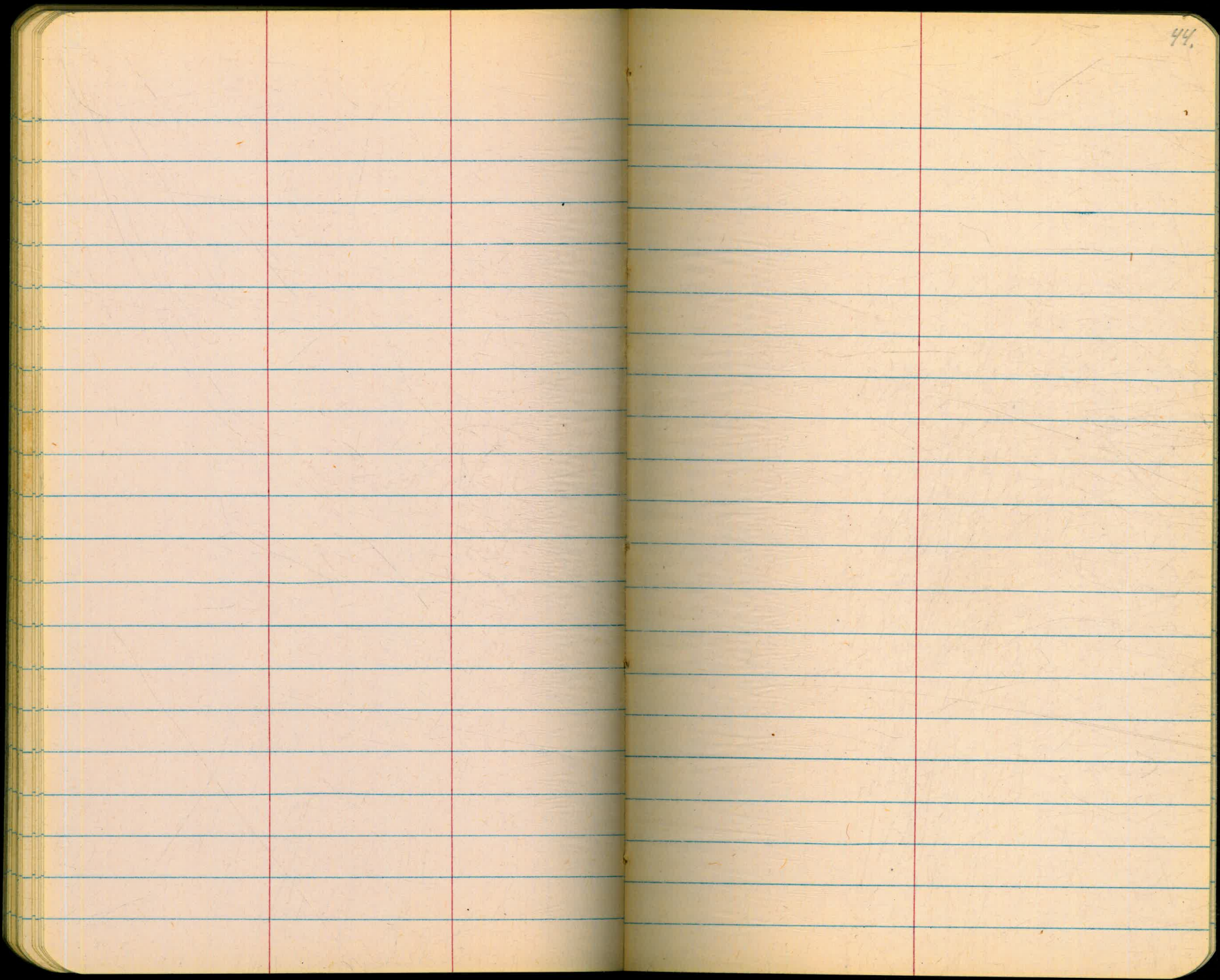
COL. C-3 + 5.169	543.156		537.987
N. SIDE COL. B-6	} USED 5' ROD UNDER VENT PIPES ONLY.	-5.150	
N.W. COR. COL. C-6		-5.170	
S.W. COR. COL. C-3		-5.169	537.987
+ 5.170	543.157		
N. SIDE COL. #6.		-5.163	
N. END WALL AT B-5		-5.169	
S. " " " B-4		-5.175	
N. " " " B-4		-5.184	
S. " " " B-3	T.P.	-5.167	537.990
+ 5.214	543.204		
E. SIDE COL. #2		-5.221	
W. WALL AT CURB, A-3		-5.209	
CHECK COL. C-3		-5.218	537.986 =
+ 5.165	543.152		537.987
S. EDGE COL. C-2		-5.163	537.989
+ 5.180	543.169		
CHECK T.P. IN ELEVATOR SILL.		-5.187	537.982 = ✓
			537.980 (1002 High)

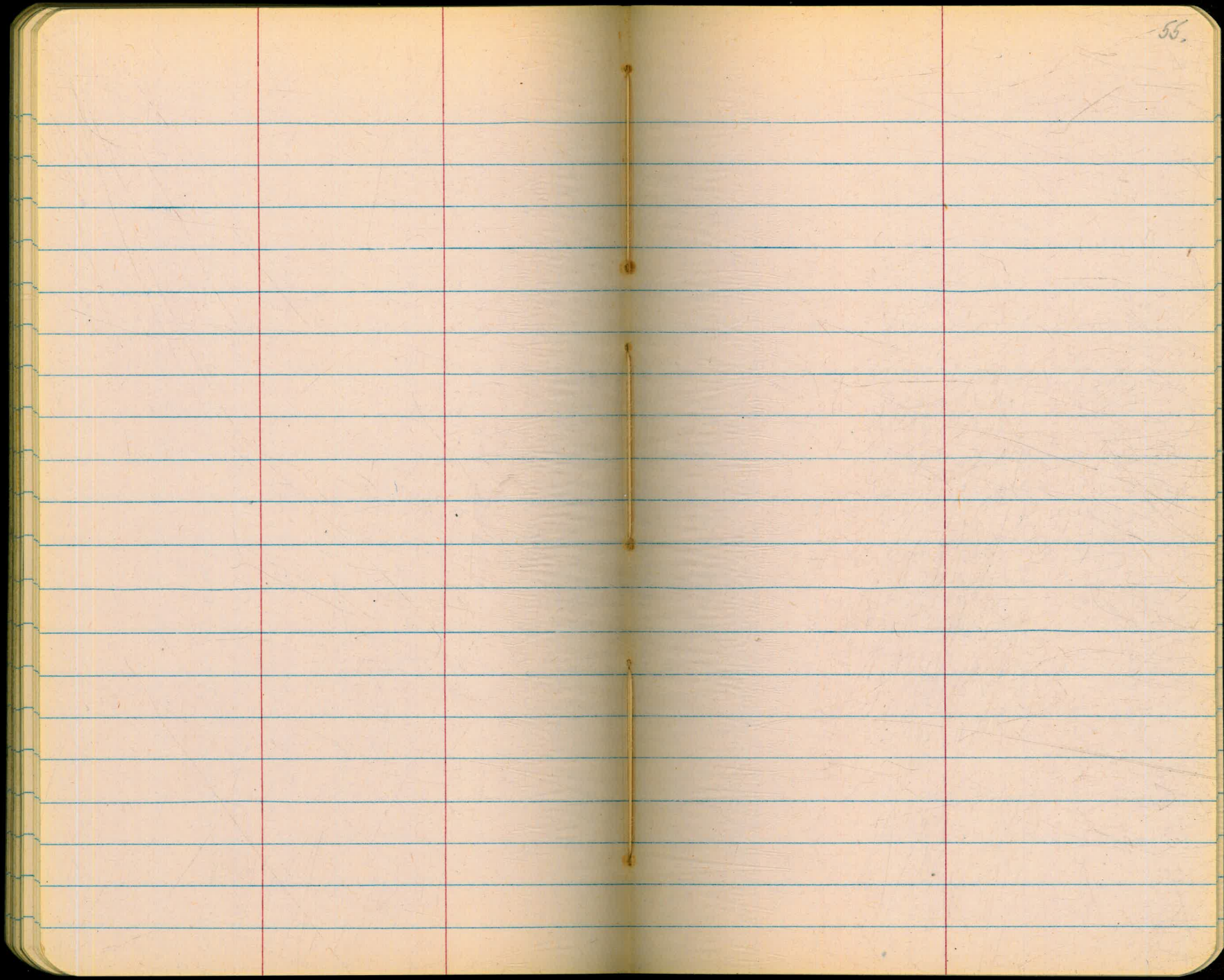
7-11-50 - HOT LEONARD ROAD
 Levels Filter Basins 1 P.M. KING - R
 Top Wall - chiseled y's

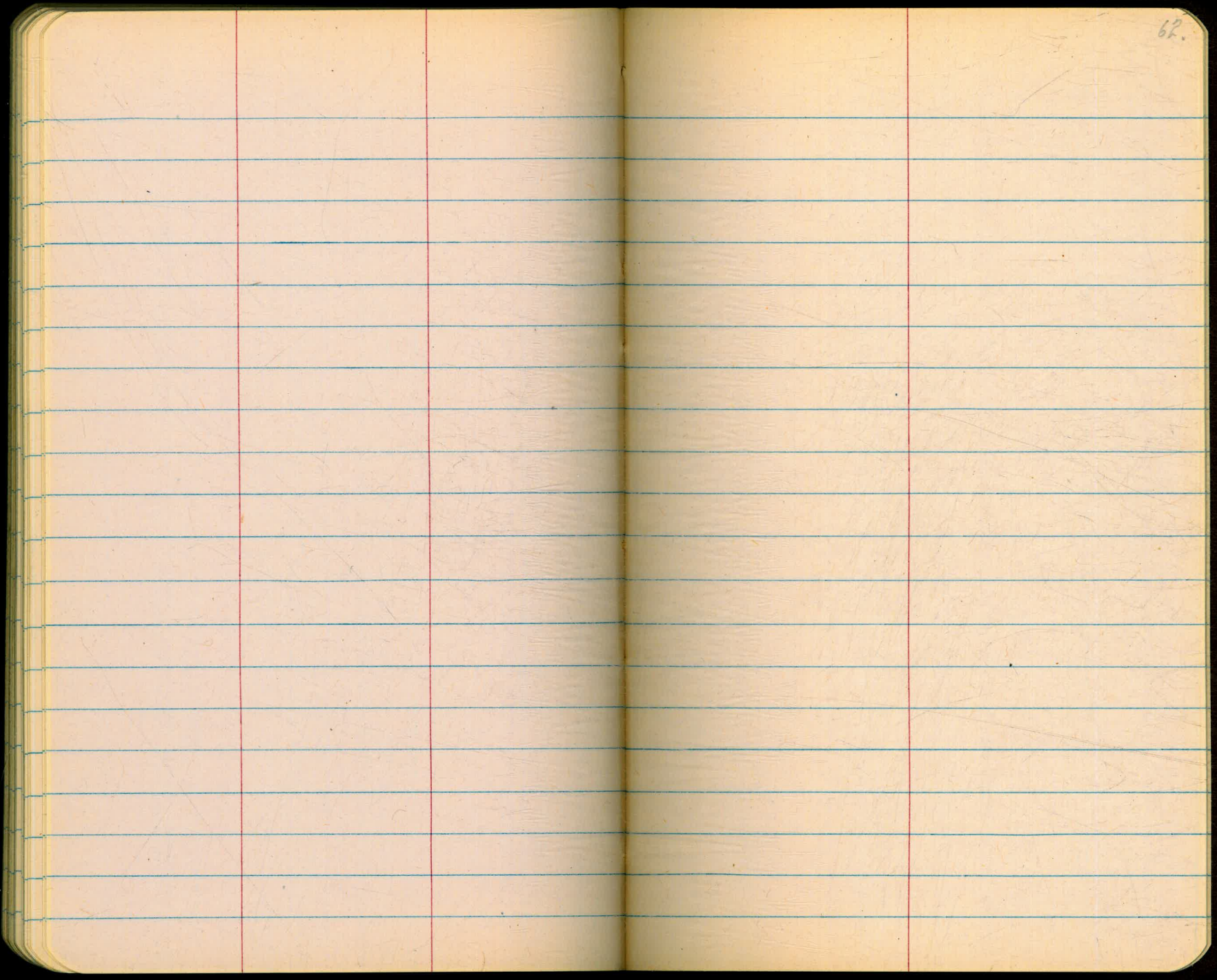
8.721	555.088		546.367
5850 W 48'		5.116	
W 64'		5.125	
W 80'		5.122	
W 98'		5.122	
W 114'		5.094	
W 115'		5.099	
W 132.5'		5.120	
W 148'		5.179	
W 164'		5.120	
585' W 181'		5.127	
W 181' S 66'		5.106	
549		5.091	
548		5.093	
530		5.098	
		8.723	546.369

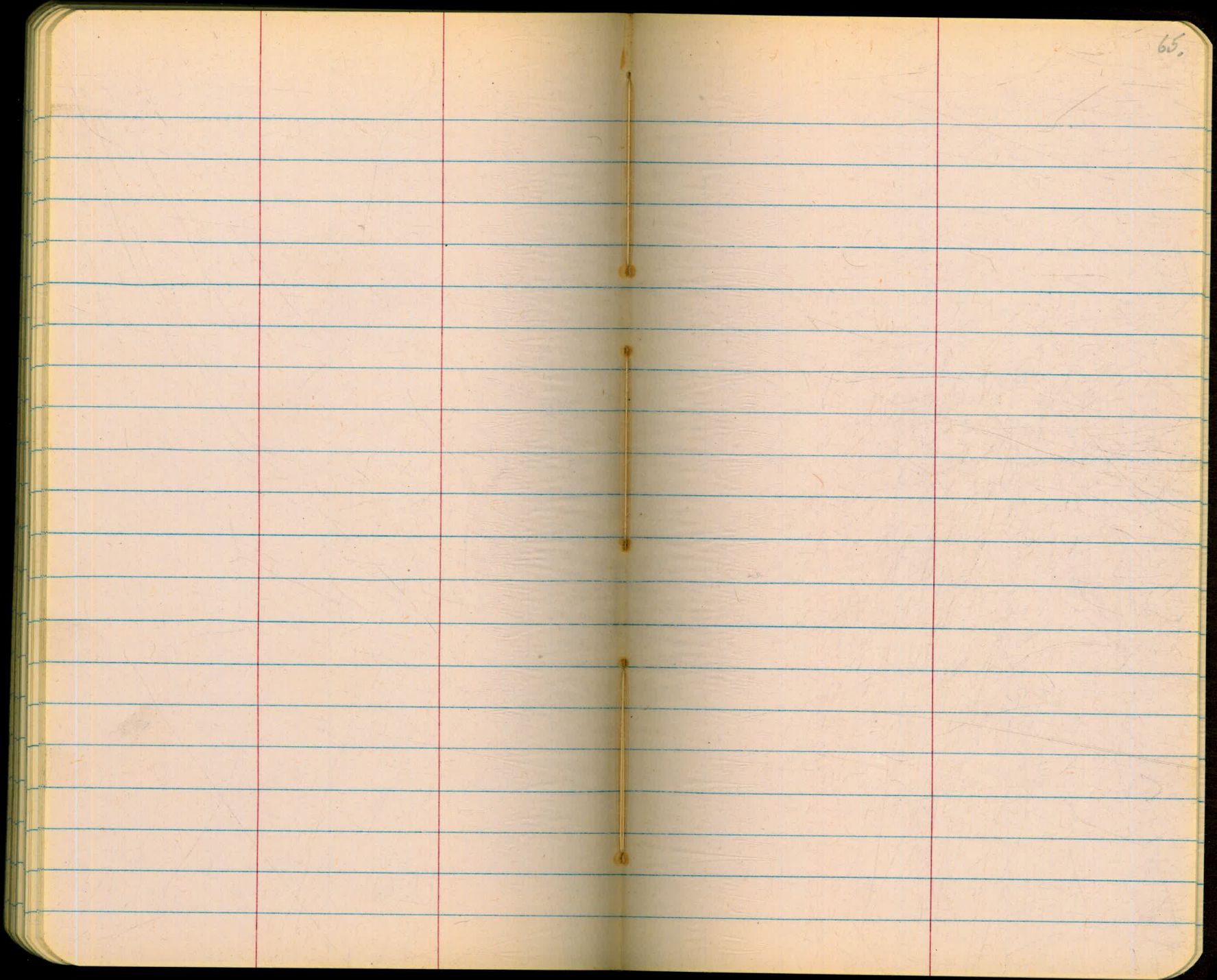


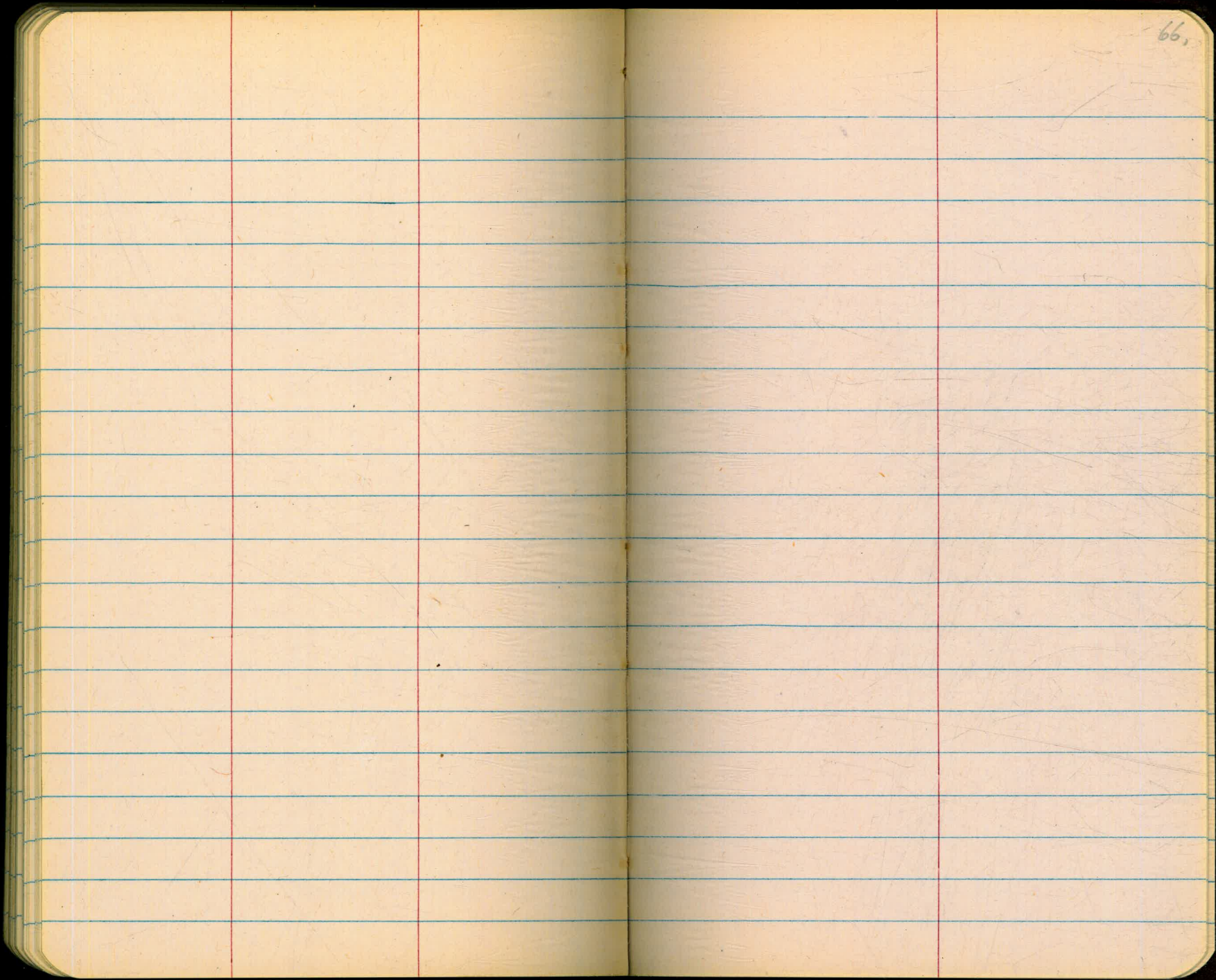
40

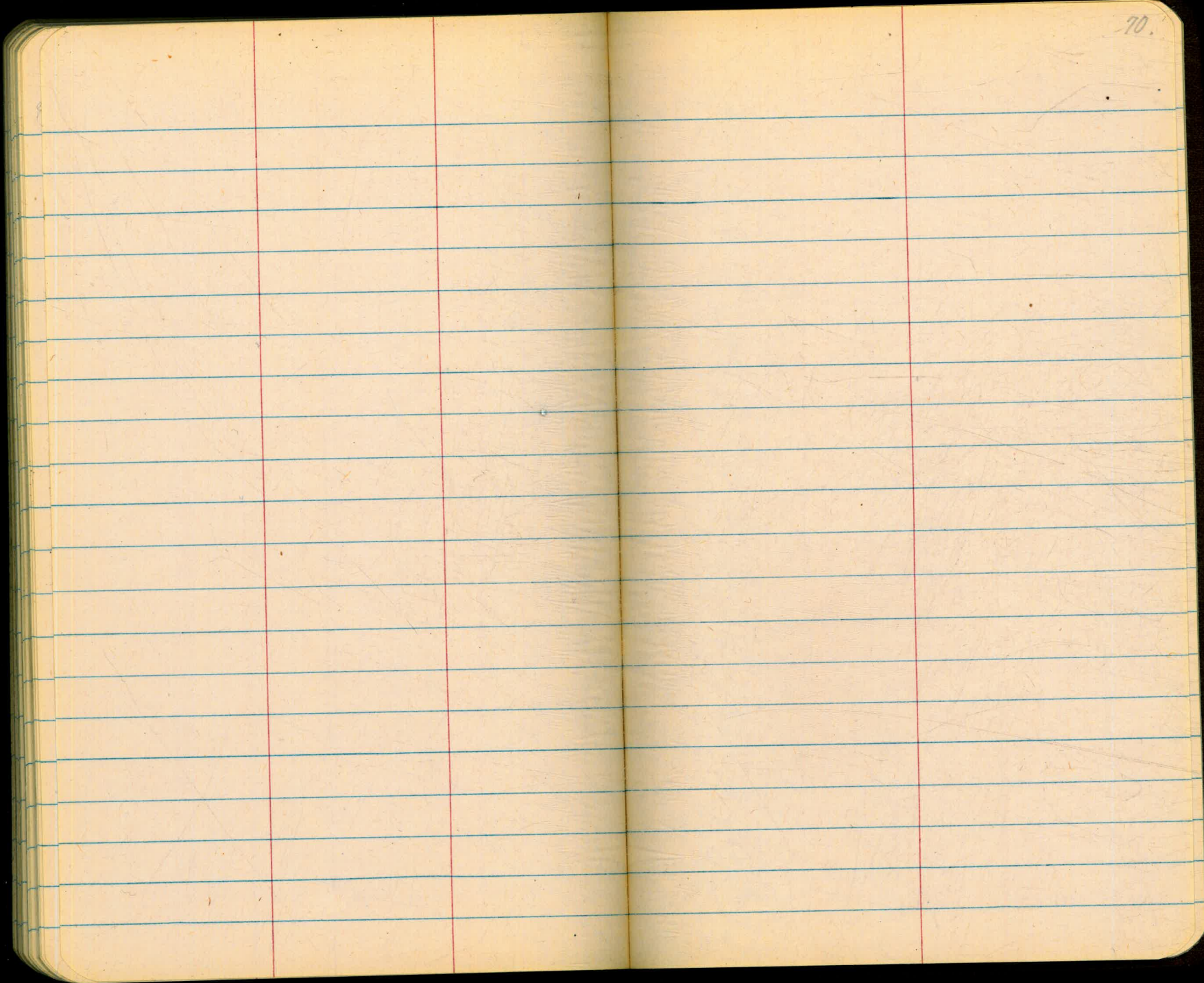


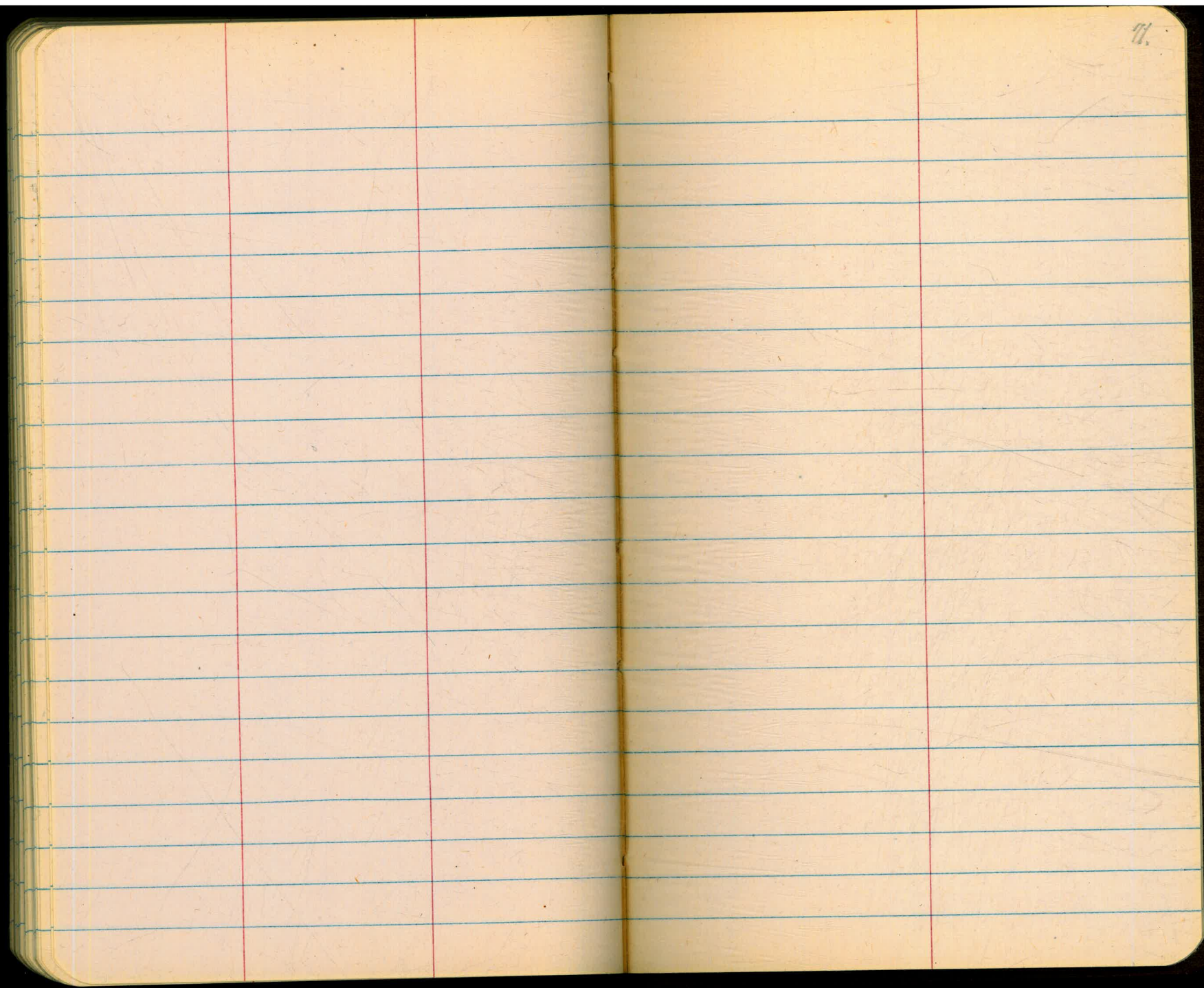


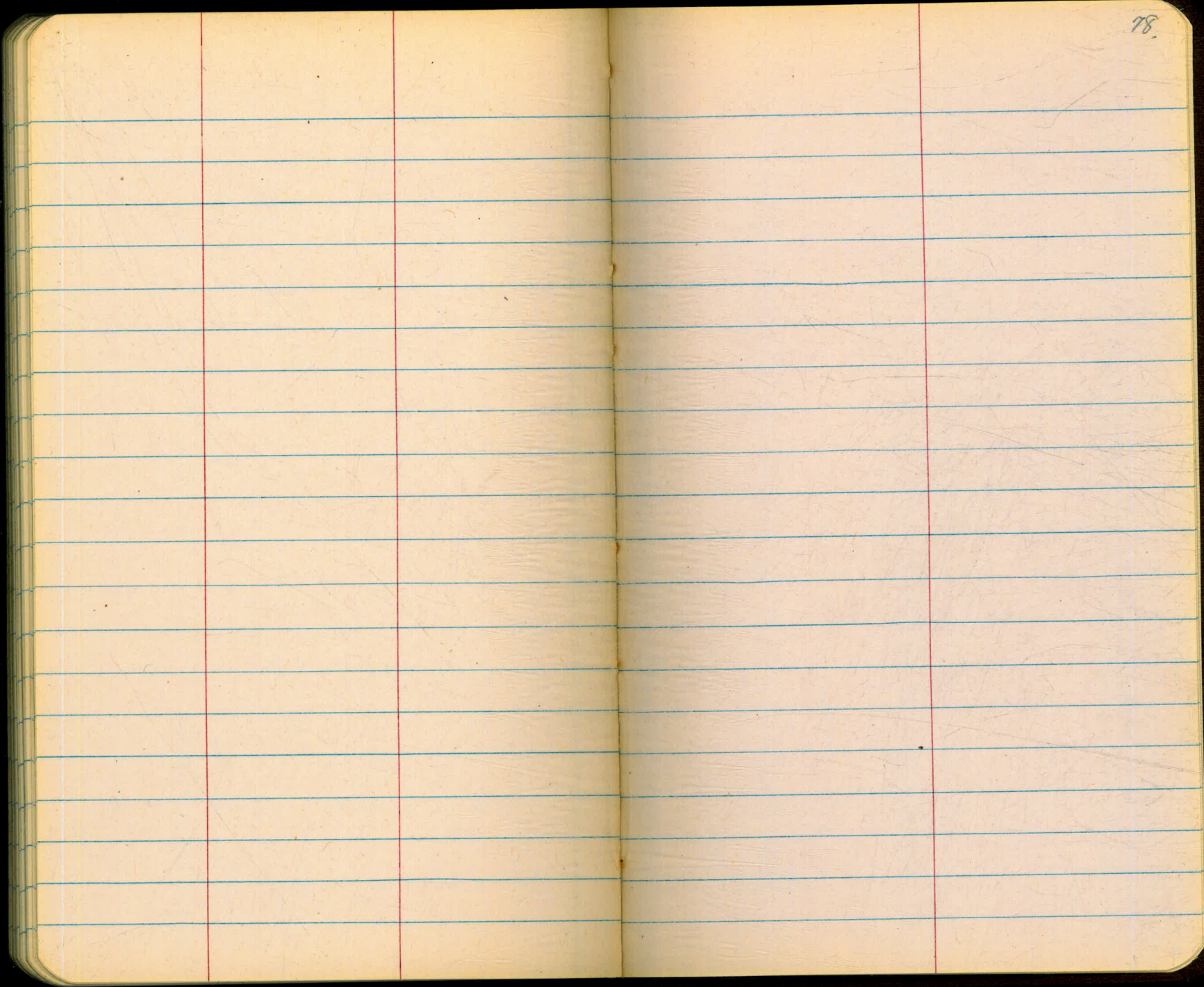


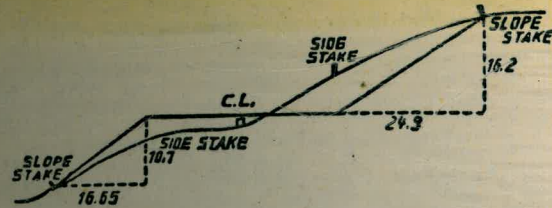












DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	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	71.25	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

THE NATIONAL BLANK BOOK COMPANY
 HOLYOKE MASSACHUSETTS
 NEW YORK CHICAGO BOSTON SAN FRANCISCO