510

F.B. 510

IND

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

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

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

MICROFILMED DEC 1 1964

TABLE FOR RUNNING ON SLOPES.

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

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

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LEVEL BOOK

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Materials

Table sh
running

MINUTES.

1.....
2.....
3.....
4.....
5.....
6.....
7.....
8.....
9.....
10.....
11.....
12.....
13.....
14.....
15.....
16.....
17.....
18.....
19.....
20.....

TA

In the follo
numb
chain

ANGLE	C I LI
°	
4	0
5	0
6	0
7	0
8	0
9	1
10	1

Myrtle
Capps
Dwight
Landis
Grimm
Wightman

Kansas
Sherman
Utah

336.76
1.89
338.65 H.I.
4.93
333.72 J.P. *

So. of University ave
& East of City park

Utah street line from Center of Upas to University ave.

May 20/10 { Childs Barber Taylor ①

1

Sta.			H.I.	Rod	Elev.
T.P.		6.34	340.06		333.72
0+00	M.H. center of Upas.			9.60	330.46
+50				9.0	331.1
1+00				8.0	332.1
+50				8.1	332.0
2+00				7.4	332.7
+50				6.0	334.1
3+00				6.4	333.7
+50				5.7	334.4
4+00				4.9	335.2
+50				4.7	335.4
5+00				5.1	335.0
+50				4.7	335.4
6+00				5.7	334.4
+50				5.9	334.2
7+00				5.3	334.8
+50				5.3	334.8

Profile Plotted Sheet C-1

Sta.			H.I.	Rod	Elev.
			340.06		
8+00				3.9	336.2
T.P.		7.35	343.00	4.41	335.65
+50				6.6	336.4
9+00				7.7	335.3
+50				8.1	334.9
10+00				7.4	335.6
+50				7.6	335.4
11+00				5.9	337.1
+50				5.4	337.6
12+00				5.8	337.2
+50				4.8	338.2
13+00				4.1	338.9
+50				5.2	337.8
14+00				4.8	338.2
+50				3.0	340.0
15+00				2.4	340.6
+06.6	13' So. center of Landis			2.5	340.5

Cont. from page 1

Sta.		H.I.	Rod	Elev.
15+50		343.00	3.5	339.5
16+00			2.9	340.1
+50			2.1	340.9
T.P.	9.02	351.02	1.00	342.00
17+00			9.1	341.9
+50			9.8	341.2
18+00			9.4	341.6
+50			8.9	342.1
19+00			8.6	342.4
+50			6.9	344.1
20+00			7.3	343.7
+50			7.3	343.7
21+00			6.7	344.3
+50			6.7	344.3
22+00			6.7	344.3
+50			6.2	344.8
23+00			5.2	345.8

Profile plotted

Sta.		H.I.	Rod	Elev.
23+50		351.02	5.2	345.8
24+00			4.8	346.2
+50			4.7	346.3
25+00			3.6	347.4
+50			3.9	347.1
+94	F.S. 73.7 so. 9 13' point on min. ave		2.27	348.7

Sherman Street from center of Upas to University ave

Sta.			H.I.	Rod	Elev.
J.P.		2.29	336.01		333.72
0+00	M.H. center of Upas,			4.29	331.72
+50				4.2	331.8
1+00				4.0	332.0
+50				4.0	332.0
2+00				4.0	332.0
+50				4.0	332.0
3+00				4.0	332.0
+50				4.6	331.4
4+00				4.4	331.6
+50				4.3	331.7
5+00				4.7	331.3
+50				4.6	331.4
6+00				5.0	331.0
+50				5.0	331.0
7+00				4.9	331.1
+50				3.4	332.6

Profile Plotted C-1

Sta.			H.I.	Rod	Elev.
8+00			336.01	3.4	332.6
+50				2.1	333.9
J.P.		10.29	344.29	2.01	334.00
9+00				9.4	334.9
+50				8.4	335.9
10+00				8.3	336.0
+50				7.3	337.0
11+00				6.1	338.2
+50				7.0	337.3
12+00				5.9	338.4
+50				5.3	339.0
13+00				6.4	337.9
+50				5.7	338.6
14+00				4.8	339.5
+50				5.3	339.0
15+00				5.1	339.2
+06.6	13' so. of center of Landis			4.5	339.8

Cont. from page 3

May 20/10 { Childs (4) Barber Taylor

Sta.		H.I.	Rod	Elev.
15+50		344.29	3.9	340.4
16+00			4.0	340.3
+50			4.0	340.3
J.P.	8.51	350.59	2.21	342.08
17+00			9.4	341.2
+50			9.1	341.5
18+00			8.7	341.9
+50			7.9	342.7
19+00			7.2	343.4
+50			7.1	343.5
20+00			6.0	344.6
+50			5.6	345.0
21+00			5.3	345.3
+50			5.4	345.2
22+00			4.8	345.8
+50			3.4	347.2
23+00			2.4	348.2

Sta.		H.I.	Rod	Elev.
23+50		350.59	3.2	347.4
24+00			2.2	348.4
+50			2.9	347.7
25+00			1.5	349.1
+50			1.7	348.9
J.P.	3.30	353.99	0.90	349.69
+95	F.S. 74.5 so.of 13' point on Univ. ave.		1.95	352.0

Kansas street from center of University ave, upas to

May 21/10 {Childs Barber Taylor

5

Sta.		H.I.	Rod	Elev.
J.P.	1.61	338.37		336.76
0+00	M.H. center of Upas,		13.20	325.17
+50			12.5	325.9
1+00			12.4	326.0
+50			11.4	327.0
2+00			11.8	326.6
+50			10.3	327.1
3+00			8.6	329.8
+50			7.8	330.6
4+00			7.7	330.7
+50			7.1	331.3
5+00			7.0	331.4
+50			6.7	331.7
6+00			5.9	332.5
+50			4.9	333.5
7+00			5.0	333.4
+50			5.5	332.9

Profile plotted 0-1

Sta.		H.I.	Rod	Elev.
8+00		338.37	4.6	333.8
+50			4.9	333.5
9+00			3.6	334.8
+50			3.7	334.7
10+00			3.1	335.3
+50			2.5	335.9
J.P.	10.32	346.27	2.42	335.95
11+00			9.3	337.0
+50			8.6	337.7
12+00			7.8	338.5
+50			7.4	338.9
13+00			7.0	339.3
+50			5.9	340.4
14+00			5.9	340.4
+50			5.8	340.5
15+00			5.7	340.6
+06.5	13' so. of center of Landis		5.4	340.9

Cont. from page 5

Sta.			H.I.	Rod	Elev.
15+50			346.27	4.5	341.8
16+00				4.1	342.2
+50				4.4	341.9
17+00				3.9	342.4
+50				3.9	342.4
18+00				3.6	342.7
+50				1.6	344.7
J.P.		9.20	353.49	1.98	344.29
19+00				9.3	344.2
+50				8.0	345.5
20+00				8.7	344.8
+50				8.3	345.2
21+00				7.5	346.0
+50				7.3	346.2
22+00				6.3	347.2
+50				5.7	347.8
23+00				4.8	348.7

Sta.			H.I.	Rod	Elev.
23+50			353.49	4.2	349.3
24+00				4.4	349.1
+50				3.6	349.9
25+00				1.9	351.6
J.P.		5.55	357.73	1.31	352.18
+50				4.5	353.2
+95	F.S. - 76.0 so. of 13' point on wind. ave.			3.53	354.2
					354.43

30th street from center of University ave.

Sta.			H.I.	Rod	Elev.
		1.88	338.64		336.76
0+00	M.H. center of Upas.			13.17	325.47
+50				13.2	325.4
1+00				12.5	326.1
+50				11.6	327.0
2+00				10.9	327.7
+50				10.0	328.6
3+00				9.1	329.5
+50				8.3	330.3
4+00				7.7	330.9
+50				6.9	331.7
5+00				6.4	332.2
+50				5.5	333.1
6+00				4.9	333.7
+50				4.2	334.4
7+00				3.5	335.1
+50				2.9	335.7

Profile Plotted C-2

Upas to

May 21/10 { Childs, Barber, Taylor

Sta.			H.I.	Rod	Elev.
			338.64		
8+00				2.6	336.0
+50				2.4	336.2
9+00				2.1	336.5
+50				1.9	336.7
10+00				1.8	336.8
+50				1.6	337.0
J.P.		7.57	344.65	1.56	337.08
11+00				7.3	337.3
+50				7.2	337.4
12+00				7.3	337.3
+50				7.1	337.5
13+00				6.8	337.8
+50				6.5	338.1
14+00				6.2	338.4
+50				5.8	338.8
15+00				5.4	339.2
+05.5	13' so of center of Landis			5.3	339.3

Cont. from Page 7

Sta.		H.I.	Rod	Elev.
		344.65		
15+50			4.6	340.0
16+00			3.9	340.7
+50			3.4	341.2
17+00			2.7	341.9
+50			2.2	342.4
18+00			1.5	343.1
+50			0.7	343.9
T.P.	12.51	356.58	0.58	344.07
19+00			12.2	344.4
+50			11.6	345.0
20+00			10.9	345.7
+50			10.0	346.6
21+00			9.1	347.5
+50			8.5	348.1
22+00			7.7	348.9
+50			6.9	349.7
23+00			6.2	350.4

May 21/10 { Childs Barber Taylor 8

Sta.		H.I.	Rod	Elev.
		356.58		
23+50			5.4	351.2
24+00			4.7	351.9
+50			4.3	352.3
25+00			3.3	353.3
+50			2.7	353.9
+95	F.T. 76.8 so. of 13' point on University ave		2.10	354.5

Ray street 16' East of west End center upas. to university ave.

Sta.			H.I.	Rod	Elev.
		3.55	340.31		336.76
0+00	M.H. center of upas.			13.57	326.7
+50				12.1	328.2
1+00				10.5	329.8
+50				10.3	330.0
2+00				10.0	330.3
+50				9.8	330.5
3+00				9.1	331.2
+50				8.6	331.7
4+00				8.2	332.1
+50				7.0	333.3
5+00				7.3	333.0
+50				6.8	333.5
6+00				7.8	332.5
+50				9.0	331.3
7+00				8.9	331.4
+50				9.1	331.2

Profile Slatted C-2 % grade

addition from May 23/10 { Childs Barber Taylor

Sta			H.I.	Rod	Elev.
			340.31		
8+00				9.5	330.8
+50				9.4	330.9
9+00				8.7	331.6
+50				9.5	330.8
10+00	about 4' deep.			9.3	331.0
+50				8.4	331.9
11+00				7.3	333.0
J.P.		12.00	345.20	7.11	333.20
+50				11.0	334.2
12+00				9.3	335.9
+50				8.1	337.1
13+00				7.1	338.1
+50				6.0	339.2
14+00				5.7	339.5
+50				5.3	339.9
15+00				5.0	340.2

Cont. from page 9

Sta.		H.I.	Rod	Elev.
		345.20		
15+50			4.9	340.3
16+00			4.0	341.2
+50			3.8	341.4
17+00			3.2	342.0
+50			2.3	342.9
18+00			1.5	343.7
+50			0.8	344.4
T.P.	12.73	357.04	0.89	344.31
19+00			12.2	344.8
+50			11.5	345.5
20+00			9.5	347.5
+50			8.6	348.4
21+00			7.5	349.5
+50			5.5	351.5
22+00			5.0	352.0
+50			4.8	352.2
23+00			4.8	352.2

May 24/10 { Childs, Barber, Taylor

10

Sta		H.I.	Rod	Elev.
		357.04		
23+50			3.6	353.4
24+00			2.8	354.2
+50			2.5	354.5
25+00			2.5	354.5
+50			2.1	354.9
+95	F.S. near mid. avl.		3.14	353.9

alley line bet. 29th & Granada from 25' so. of Upas.
to center of Thom.

sta		H.I.	Rod	Elev.
0+00	F.T. 25' so. of Upas.	336.08	4.92	331.2
+50			5.4	330.7
1+00			6.0	330.1
+50			6.2	329.9
2+00			5.7	330.4
+50			7.0	329.1
3+00			7.8	328.3
+50			8.1	328.0
4+00			9.0	327.1
+50			9.9	326.2
5+00			10.9	325.2
+50			10.6	325.5
6+00			10.6	325.5
+04.55	O.H. center of Thom.		10.83	325.25

Profile Plotted C-2

574.55
30

Upas. street from center of Utah to 16' East of center of 30th } Childs Barber Taylor
street going south in Ray street. may 24/10

Sta.		H.I.	Rod	Elev.
T.P.				3
0+00	M.H. center of Utah	336.08	5.62	330.46
+50			5.1	331.0
1+00			4.7	331.4
+50			4.2	331.9
2+00			4.2	331.9
+50			4.3	331.8
+79.5	M.H. center of Sherman.		4.32	331.76
3+00			4.4	331.7
+50			5.9	330.2
4+00			8.5	327.6
+50			10.0	326.1
5+00			10.7	325.4
+50			10.9	325.2
+59.25	M.H. Center of Kansas 4.11	329.29	10.90	325.18
6+00			4.4	324.9
+50			4.9	324.4

Profile Platted C-2

Sta.		H.I.	Rod	Elev.
7+00		329.29	5.2	324.1
+49.35	M.H. center of Dale.		5.18	324.11
+50			5.2	324.1
8+00			4.3	325.0
+39.15	M.H. center of 30th going north		3.76	325.53
+50			3.2	326.1
9+00			3.2	326.1
+50			2.8	326.5
10+00			2.3	327.0
+50			1.8	327.5
+95.75	M.H. in Ray st. 16' east center of 30th going South		2.55	326.74

Alley line bet. Thom & Spruce from center of Dale to Granada.

May 25/10 {Childs, Barber, Taylor}

13

Sta.		H.I.	Rod	Elev.
		311.25		
0+00	M.H. Center of Dale		11.99	299.2
+08			11.1	300.1
+18			8.9	302.3
+43			6.2	305.0
+50			4.3	306.9
J.P.	12.65	323.61	0.29	310.96
+75			8.8	314.8
1+00			5.8	317.8
+50			4.5	319.1
2+00			3.8	319.8
+50			2.2	321.4
3+00			0.4	323.2
J.P.	6.86	330.12	0.35	323.26
+50			6.1	324.0
4+00			4.6	325.5
+50			4.7	325.4
5+00			5.2	324.9
+50			5.3	324.8

Profile plotted C-3

Sta.		H.I.	Rod	Elev.
		330.12		
6+00			6.5	323.6
+10	F.S. 19.95 from Granada		6.60	323.5

alleyline bet. Spruce & Redwood from center of Dale to near Granada.

May 25/10 {Childs Barber Taylor

14

Sta.			H.I.	Rod	Elev.
0+00	M.H. center of Dale		322.70	6.95	315.7
+50				7.6	315.1
1+00				7.8	314.9
J.P.		11.53	326.46	7.77	314.93
+50				10.1	316.4
2+00				7.6	318.9
+50				5.4	321.1
3+00				3.6	322.9
+50				3.8	322.7
4+00				3.8	322.7
+50				4.6	321.9
5+00				5.9	320.6
+50				6.2	320.3
6+00				6.4	320.1
+10	F.S. 19.9 from Granada			6.54	319.92

Profile plotted C-3

Dale street from center of
of alley bet. Redwood & Spruce.

Sta.		H.I.	Rod	Elev.
0+00	M.H. center of upas.	325.95	1.84	324.11
+50			2.4	323.5
1+00			2.7	323.2
+50			3.4	322.5
2+00			3.9	322.0
+50			4.2	321.7
3+00			4.6	321.3
+50			5.0	320.9
4+00			5.3	320.6
+50			5.9	320.0
5+00			6.4	319.5
+50			6.8	319.1
6+00			7.2	318.7
+50			7.7	318.2
+68.8	0°48' L M.H. center of Thorn		7.79	318.16

Profile Plotted C-3

To be put in Upas to alley bet Thorn & Spruce

Upas to center

May 25/10 { Childs Barber Tayl

15

Sta.		H.I.	Rod	Elev.
7+00		325.95	7.8	318.1
+50			9.3	316.6
+77			11.7	314.2
J.P.	0.36	313.41	12.90	313.05
8+00			9.3	304.1
+15			11.8	301.6
J.P.	0°38' R 8.82	311.25	10.98	302.43
+22.1	M.H. center of alley bet Thorn & Spruce		11.99	299.26
+30			9.1	302.1
+50			2.4	308.8
J.P.	11.74	322.70	0.29	310.96
+73			8.7	314.0
9+00			7.4	315.3
+50			7.0	315.7
10+00			6.8	315.9
+50			6.4	316.3
11+00			6.6	316.1
+50	90°01' R M.H. center of alley bet. Spruce & Redwood		6.9	315.8
+60.5			6.95	315.75

Thom Street from center of center of alley bet. 29th &

Sta.		H.I.	Rod	Elev.
0+00	M.H. Center of Dale	329.07	10.91	318.16
+50			10.6	318.5
1+00			10.1	319.0
+50			9.6	319.5
2+00			9.2	319.9
+50			8.6	320.5
3+00			8.2	320.9
+50			7.5	321.6
+57			6.9	322.2
+60			4.6	324.5
4+00			4.0	325.1
+50			3.9	325.2
+93.3	M.H. center alley bet. 29th & Granada		3.77	325.3

Profile plotted C-3.

Dale to Granada.

May 25/10 { Childs Barber Tagged

alley line bet. 30th & Dale from
to Sta 5+50 just north of

Sta.			H.I.	Rod	Elev.
J.P.		4.52	322.68		318.16
0+00	F.S. 25' so. of Thom.			1.11	321.6
+15				3.1	319.6
+50				3.3	319.4
+75					
1+00				4.2	318.5
+50				5.4	317.3
2+00				8.6	314.1
+12				10.0	312.7
+20					
+50				15.2	307.5
J.P.		0.21	310.31	12.58	310.10
+80				6.1	304.2
+90					
3+00				10.5	299.8
J.P.		4.62	302.07	12.86	297.45
+32				15.5	286.6
J.P.		10.86	300.07	12.86	289.21
+40	M.H. bottom of Canyon			12.63	287.44
+50				11.9	288.2
+62				11.8	288.4
J.P.		11.56	311.41	0.22	299.85
4+00				7.4	304.0
+23				0.8	310.6

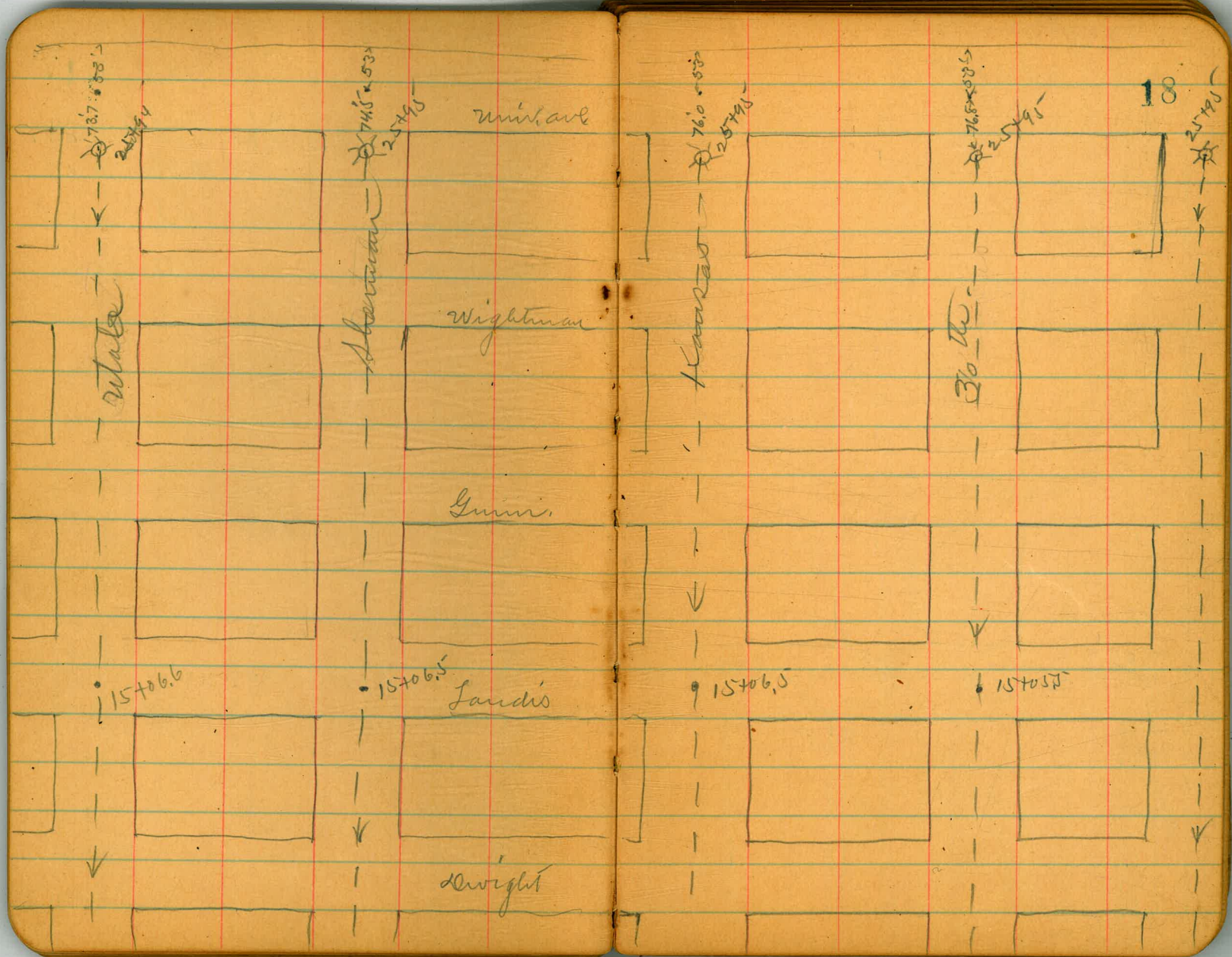
25' so. of Thom
Redwood.

May 26/10 (Childs Barber Taylor

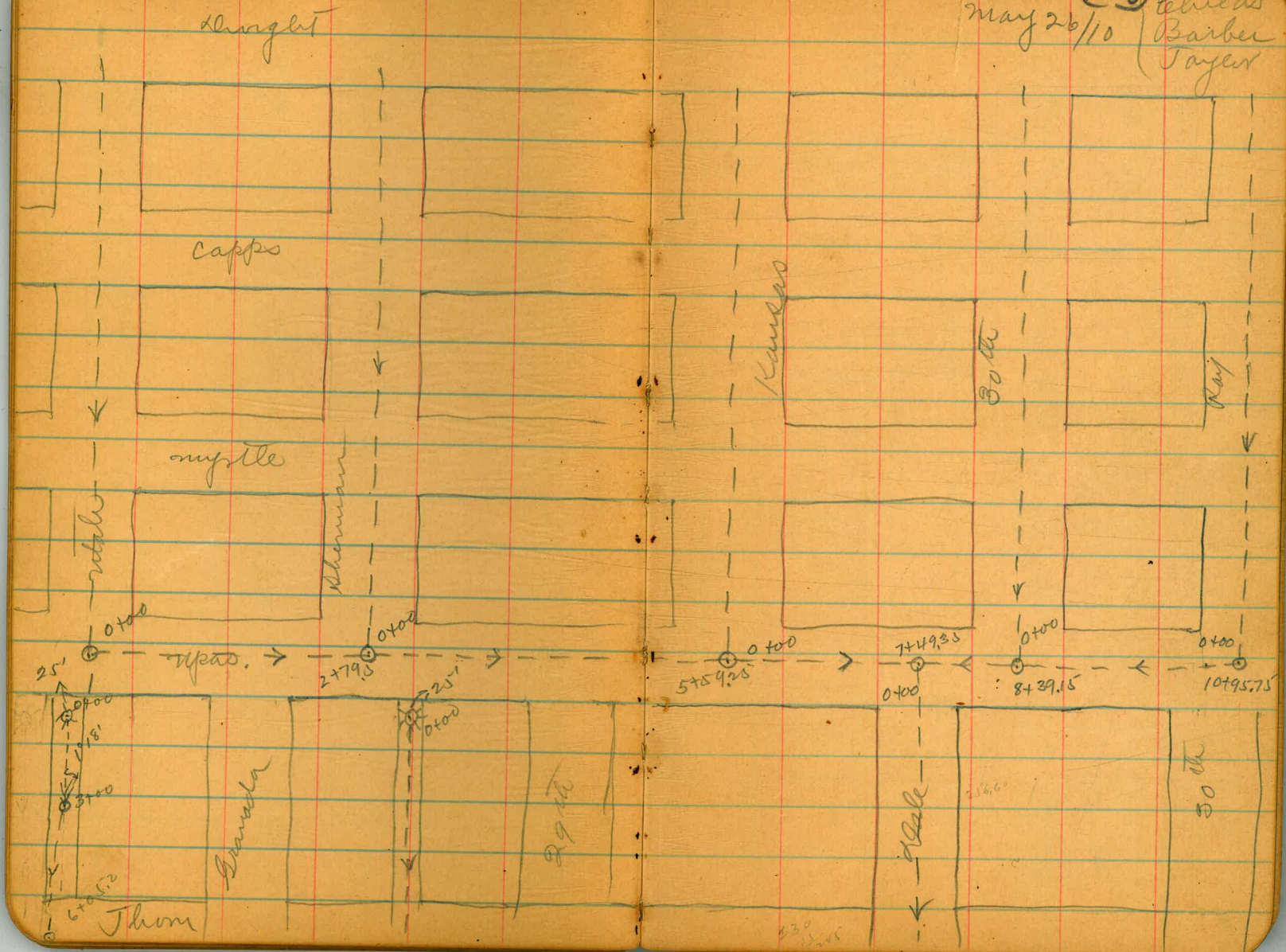
17

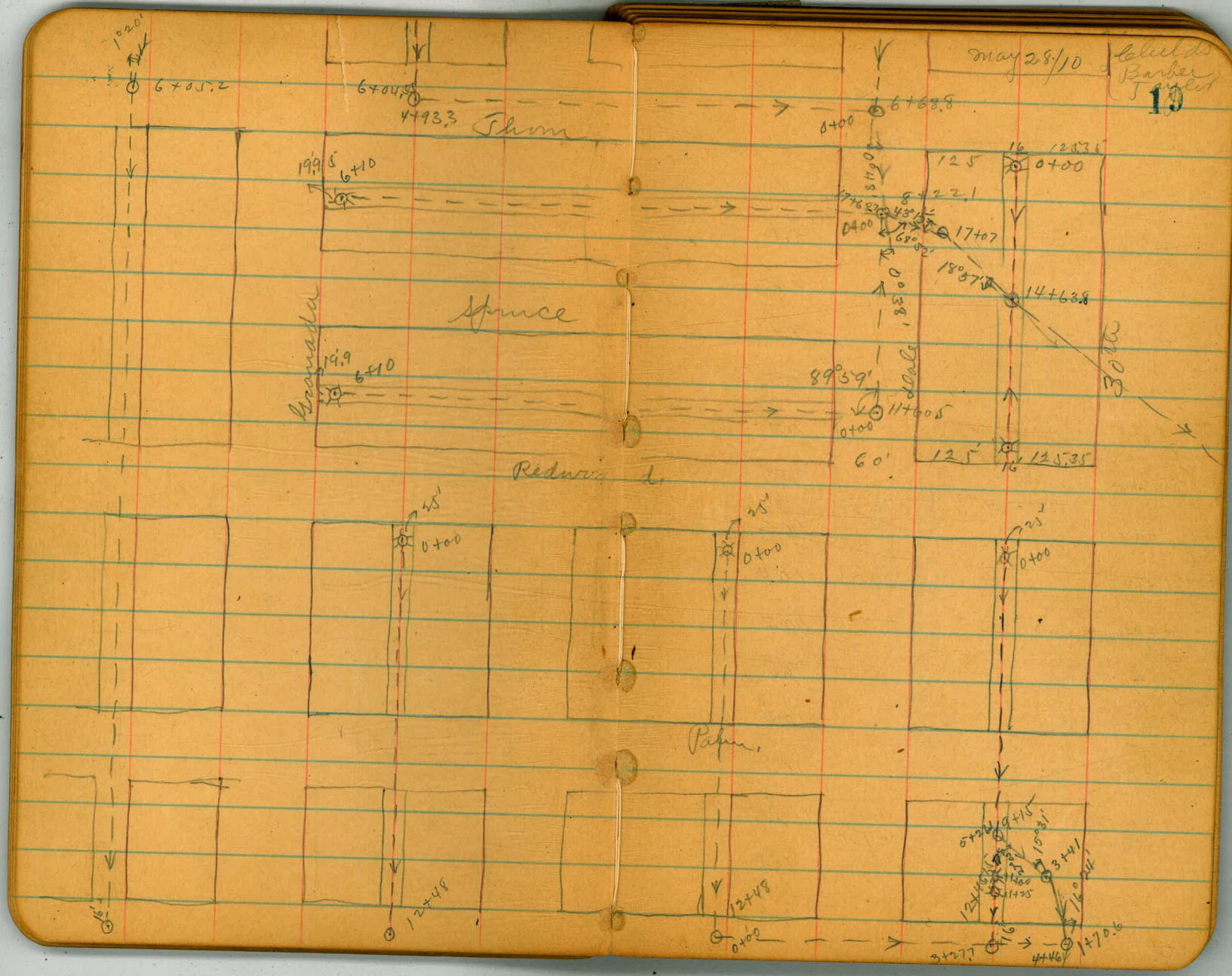
Sta			H.I.	Rod	Elev.
J.P.		8.30	319.21	0.50	310.91
4+50				6.4	312.8
5+00				4.7	314.5
+50	F.S. about 25.7 to Redwood. street			4.57	314.64
315					
310					
300					
282					

Profile Plotted C-3


73.7 53
25+94
74.5 53
25+95
Univ. ave
76.0 53
25+95
76.8 53
25+95
25+95
Utah
Sherman
Kansas
30th
Wightman
Gunn
15+06.6
15+06.5
Landis
15+06.5
15+05.5
Dwight

May 26/10 { Childs
Barber
Taylor





May 28/10
Childs
Barber
Taylor
19
Thorn
Spruce
Granada
Redwood
Palm
6+05.2
6+04.5
4+93.3
6+68.8
0+00
6+10
19.9
8+22.1
17+07
14+63.8
11+60.5
89°59'
60'
125
125.35
30th
25'
12+48
9+15
3+41
3+27.7
4+46
1+70.6

alley line bet. Granada & 28th
25' so. of Upas to 16' so. of North

sta.		H.I.	Rod	Elev.
J.P.	3,30	333.76		330.46
0+00	F.S. 25' so. of Upas.		4.15	329.6
+50			5.1	328.7
1+00			6.6	327.2
+50			7.4	326.4
2+00			8.3	325.5
+50			8.7	325.1
3+00	1° 18' R M.H. angle		8.86	324.9
+50			10.2	323.6
4+00			10.4	323.4
+50			10.2	323.6
5+00			9.8	324.0
+50			10.4	323.4
6+00			10.8	323.0
+05.2	M.H. center of		10.76	323.00
J.P.	Thorne & alley	324.04		
+50	going South 1.04		2.4	321.6
6+90			6.2	317.8

Profile Plotted C. 4

Street from line of Nutmeg

May 28/10 Childs Barber Taylor

20

sta		H.I.	Rod	Elev.
		324.04		
7+00			6.1	317.9
+50			5.2	318.8
8+00			6.6	317.4
+50			7.7	316.3
9+00			7.6	316.4
+50			7.2	316.8
J.P.	3.50	320.09	7.45	316.59
10+00			3.8	316.3
+50			3.7	316.4
11+00			3.7	316.4
+50			3.6	316.5
12+00			4.1	316.0
+50			4.3	315.8
12+91.6	So. line Redwood		4.9	315.2
13+00	about 6' deep.		5.1	315.0
+50			5.6	314.5
14+00			5.3	314.8

Cont. from page 20.

Sta.		H.I.	Rod	Elev.
		320.09		
14+50			5.9	314.2
15+00	not less than 5' deep		7.0	313.1
+50			8.7	311.4
16+00			10.1	310.0
+50			12.2	307.9
T.P.	1.84	309.15	12.78	307.31
17+00			2.8	306.3
+50			4.7	304.4
+90	not less than 4' deep.		6.8	302.3
18+00			13.0	296.1
+15	trestle		20.0	289.1
+40			9.0	300.1
+50			7.2	301.9
+89.7	No line of palm		5.3	303.8
19+00			5.0	304.1
+50			5.3	303.8
20+00			3.6	305.5

May 28/10 { Shields, Barber, Taye

Sta.		H.I.	Rod	Elev.
		309.15		
20+50			3.3	305.8
21+00			3.2	305.9
+50			3.8	305.3
22+00			4.9	304.2
+50			6.0	303.1
23+00			7.0	302.1
+50			7.5	301.6
24+00			8.7	300.4
+50			9.6	299.5
25+00			10.9	298.2
+50			12.7	296.4
+64	M.H. 16' so. of no. line of nutmeg		13.20	295.95

alley line bet. 29th & Granada
Redwood to 16' so. of North line

Sta.			H.I.	Rod	Elev.
J.P.		1.26	321.18		319.92
0+00	F.T. 25' so. of Redwood.			1.54	319.6
+50				1.7	319.5
1+00				2.5	319.7
+50				3.3	317.9
2+00				4.2	317.0
+50				4.2	317.0
3+00				4.5	316.7
+50				4.5	316.7
4+00				5.2	316.0
+50				6.0	315.2
5+00				7.0	314.2
+50				7.4	313.8
+73.2	No. line palm.			7.2	314.0
6+00				7.3	313.9
+50				7.4	313.8
7+00				8.2	313.0

Profile Platted C-3

from 25' so. of
of Nutmeg.

June 4/10 { Childs Barber Tower

22

Sta.			H.I.	Rod	Elev.
J.P.		1.82	314.88	8.13	313.05
7+50				2.6	312.3
8+00				3.2	311.7
+50				3.8	311.1
9+00				4.8	310.1
+50				6.3	308.6
10+00				7.6	307.3
+50				9.0	305.9
11+00				11.5	303.4
J.P.		1.32	303.50	12.70	302.18
+50				3.2	300.3
12+00				7.4	296.1
+48	M.H. 16' so. of no. line Nutmeg.			13.18	290.32

alleyline bet. 29th & Hale from to 16' so. of no. line of Nutmeg.

Sta.			H.I.	Rod	Elev.
S.P.			321.46		315.75
0+00	about 6' deep F.S. 25' so. of Redwood	5.71		4.29	317.2
+50				4.1	317.4
1+00				4.2	317.3
+50				4.3	317.2
2+00				4.3	317.2
+50				4.6	316.9
3+00				5.8	315.7
+50				6.2	315.3
4+00				7.3	314.2
+50				6.5	315.0
5+00				6.5	315.0
+50				7.2	314.3
+73.2	No. line of palm			7.1	314.4
6+00	about 5.3 deep			7.4	314.1
+50				7.9	313.5
7+00				8.6	312.9

Profile plotted on Sheet C-14

0.90 grade

25' so. of Redwood

July 9/10 { Childs, Barber, Taylor

Sta			H.I.	Rod	Elev.
S.P.		1.41	314.31	8.56	312.90
7+50				2.4	311.9
8+00				3.5	310.8
+50				4.6	309.7
9+00				6.3	308.0
+50				8.2	306.1
10+00				10.3	304.0
+50				11.7	302.6
S.P.		1.35	302.80	12.86	301.45
11+00				2.1	300.7
+50				3.9	298.9
12+00				6.9	295.9
S.P.		10.71	300.73	12.78	290.02
+48	Sq. H. 16' so. of no. line of Nutmeg			11.62	289.11

alley line bet. 30th & Dale. from 25' so. of Redwood

to 16' so. of north line of Nutmeg

July 21/10 Childs Barber Taylor

24

Sta.			H.I.	Rod	Elev.
		2.64	317.28		314.64
0+00	F.S. 25' so. of Redwood			3.28	314.00
+50				3.3	314.0
1+00				4.1	313.2
+50				4.3	313.0
2+00				5.3	312.0
+50				6.4	310.9
3+00				8.3	309.0
+50				10.2	307.1
+70				12.8	304.5
T.P.		3.80	308.44	12.64	304.64
+90				9.7	298.7
4+00				7.7	300.7
+50				8.3	300.1
5+00	about 1' deep.			14.0	294.4
+50				9.0	299.4
+73.5	No. line Palm			5.4	303.0
6+00				4.3	304.1

Profile Stalled C-14

Sta.			H.I.	Rod	Elev.
			308.44		
6+50				5.6	302.8
7+00				7.5	300.9
+40				10.2	298.2
+50				11.9	296.5
T.P.		0.84	296.35	12.93	295.51
8+00				12.9	283.4
T.P.		0.61	283.98	12.98	283.37
+25				6.4	277.6
T.P.		0.06	271.22	12.82	271.16
+50				0.7	270.5
T.P.		0.54	258.78	12.98	258.24
9+00				7.8	251.0
+15	M.H. bottom of Canyon.			13.33	245.45
+27				14.1	244.7
+50				9.8	249.0
10+00				3.2	255.6
T.P.		12.68	268.69	2.77	256.01
+50				6.8	261.9
T.P.		8.39	274.20	2.88	265.81
+90				3.3	270.9
11+00	F.S. north			3.6	270.6
+25	F.S. south			6.18	268.0

Cont. from page 24.

Sta.			H.I.	Rod	Elev.
			274.20		
11+50				10.1	264.1
J.P.		0.46	261.91	12.75	261.45
12+00				6.4	255.5
J.P.		0.38	249.54	12.75	249.16
+45.15	about 12.5 deep. M.H. 16' So. of No. line of nutmeg			3.83	245.7

Drop M.H.

July 21/10 {Childs, Barber, Tayer} 25

280.75

Nutmeg Street 16' so. of north line from center alley bet. 29th & Dale to bottom of Canyon near 30th.

July 21/10 Childs Barber Taylor

Sta.		H.I.	Rod	Elev.
0+00	M.H. center alley bet. 29th & Dale	292.65	3.40	289.25
+50		285.24	3.4	281.8
1+00		274.55	0.5	274.0
+35			5.2	269.3
+50			9.7	264.8
2+00		262.16	6.8	255.4
+45	about 1' deep	249.54	14.5	235.0
+50			14.6	234.9
3+00			3.8	245.7
+27.7	M.H. center alley bet. Dale & 30th about 12.5 deep		3.83	245.71
+50			6.0	243.5
+90			13.8	235.7
J.P.	0.84	237.37	13.01	236.53
4+00			4.2	233.2
+10			8.1	229.3
J.P.	1.81	226.30	12.88	224.49
+42			9.0	217.3
+46	M.H. bottom of Canyon		8.15	218.15

Profile Plotted - Sheet C-14

249.16
13.00
262.16 H.I.
0.20
261.96 J.P.
12.49
274.55 H.I.
0.11
274.44 J.P.
10.80
285.24 H.I.
1.42
283.82 J.P.
8.83
292.65

Alley line bet. 30th & Grim from Redwood to Sta. 26+32 No. of Dwight

Sta.			H.I.	Rod	Elev.
J.P.		0.13	290.44	12.83	290.31
J.P.		1.06	279.31	12.19	278.25
0+00	M.H. bottom of			8.56	270.75
J.P.	Canyon 98' So.	8.11	303.14	12.82	303.03
+50	of no. line of Redwood			12.5	290.6
J.P.					
+73				1.1	302.0
		1.85	315.85		314.00
+98	no. line of Redwood.			7.6	308.2
1+00				7.3	308.5
+50				4.3	311.5
2+00				2.9	312.9
+50				2.0	313.8
3+00				1.7	314.1
+50				1.6	314.2
4+00				1.4	314.4
+50				0.3	315.5
J.P.		11.22	326.42	0.65	315.20
5+00				9.5	316.9
+50				8.4	318.0
6+00				6.8	319.6
+50				5.8	320.6

Profile Plotted sheet C 5

98' So. of no. line of July 22/10 Childs Barber Taylor

Sta.			H.I.	Rod	Elev.
			326.42		
7+00				4.9	321.5
+50				4.4	322.0
8+00				4.1	322.3
+50				2.8	323.6
9+00				2.4	324.0
J.P.		8.22	332.99	1.65	324.77
+50				8.8	324.2
10+00				8.4	324.6
+50				7.7	325.3
11+00				6.9	326.1
+50				6.3	326.7
12+00				5.4	327.6
+50				4.9	328.1
13+00				4.9	328.1
+50				4.5	328.5
+95.9	40' No. of So. line			3.9	329.1
14+00	of upas.			3.7	329.3

Cont. from page 27

Sta.			H.I.	Rod	Elev.
			332.99		
14+50				2.8	330.2
15+00				3.4	329.6
+50				4.0	329.0
J.P.		2.20	332.01	3.18	329.81
16+00				3.6	328.4
+50				4.0	328.0
17+00				5.0	327.0
+16.8	Center of myrtle			5.0	327.0
+50				5.1	326.9
18+00		0.4 % grade,		5.1	326.9
+50				5.7	326.3
19+00				5.1	326.9
+50		about 3' deep		6.4	325.6
20+00				5.5	326.5
+50				4.6	327.4
21+00				3.4	328.6
+50				2.6	329.4

July 22/10 {Childs, Barber, Taylor} (27½)

Sta.			H.I.	Rod	Elev.
			332.01		
22+00				1.7	331.3
J.P.		10.25	341.26	1.00	331.01
+50				9.5	331.8
23+00				8.3	333.0
+50				7.8	333.5
24+00				6.6	334.7
+50				5.6	335.7
25+00				4.2	337.1
+50				4.8	336.5
26+00				4.5	336.8
+32	F.T. near Hartley add. north of Dwight			4.1	337.2

Plotted

4.55
336.71

alley line bet. Grim & Hart from center of Redwood to center of Myrtle

July 26/10 { Schilds, Barber, Joyce

Sta.			H.I.	Rod	Elev.
		4.33	319.53		315.20
0+00	about 11' deep N.H. Center of Redwood			6.26	313.27
+50				4.9	314.6
1+00				4.6	314.9
+50				4.9	314.6
2+00				5.9	313.6
+50				7.4	312.1
3+00				7.3	312.2
+50				6.9	312.6
4+00				7.0	312.5
+50				6.9	312.6
5+00				5.3	314.2
+50				5.8	313.7
J.P.		1.12	315.22	5.43	314.10
6+00				12.2	303.0
+15				14.2	301.0
+45				12.5	302.7
+50				9.6	305.6

Profile Started Wed. Oct. 2

0.4% grade

0.4% grade

Turtle

Sta.			H.I.	Rod	Elev.
6+60			315.22	6.0	309.2
+73				5.8	309.4
+78	about 2' deep.			8.2	307.0
7+00				7.8	307.4
+50				5.2	310.0
+70				7.2	308.0
8+00				0.6	314.6
J.P.		8.58	323.64	0.16	315.06
+50				7.4	316.2
9+00				5.7	317.9
+50				5.0	318.6
10+00				4.4	319.2
+50				3.9	319.7
11+00				3.1	320.5
+50				1.8	321.8
J.P.		11.61	334.14	1.11	322.53
12+00				10.7	323.4
+50				9.8	324.3

Cont. from page 28

Sta		H.I.	Rod	Elev.
		334.14		
13+00			8.5	325.6
+18.8	0° 34' R M.H. 30' north of south line of upas.		7.74	326.4
+50			7.3	326.8
14+00			6.3	327.8
+50			5.1	329.0
15+00			4.7	329.4
+50			3.5	330.6
16+00			3.3	330.8
+49.8	M.H. center of myrtle & alley		3.16	331.0

4.8

July 26/16 Childs Bar 8 Taylor

alley line bet. Hart & Herman
from center of Redwood to pueblo.

Sta.			H.I.	Rod	Elev.
		2.38	315.65		313.27
0+00	M.H. center of Redwood			11.30	304.35
+50				9.1	306.5
1+00				6.7	308.9
+50				3.3	312.3
2+00				0.6	315.0
J.P.		11.76	327.04	0.37	315.28
+50				9.9	317.1
3+00				8.6	318.4
+50				7.0	320.0
4+00				6.4	320.6
+50				5.7	321.3
5+00				4.7	322.3
+50				4.5	322.5
6+00				3.4	323.6
+50				2.7	324.3
7+00				2.2	324.8
+50				1.9	325.1

Profile Plotted Sheet C-6

line north of Dwight July 25/10 { Childs Barber Taylor

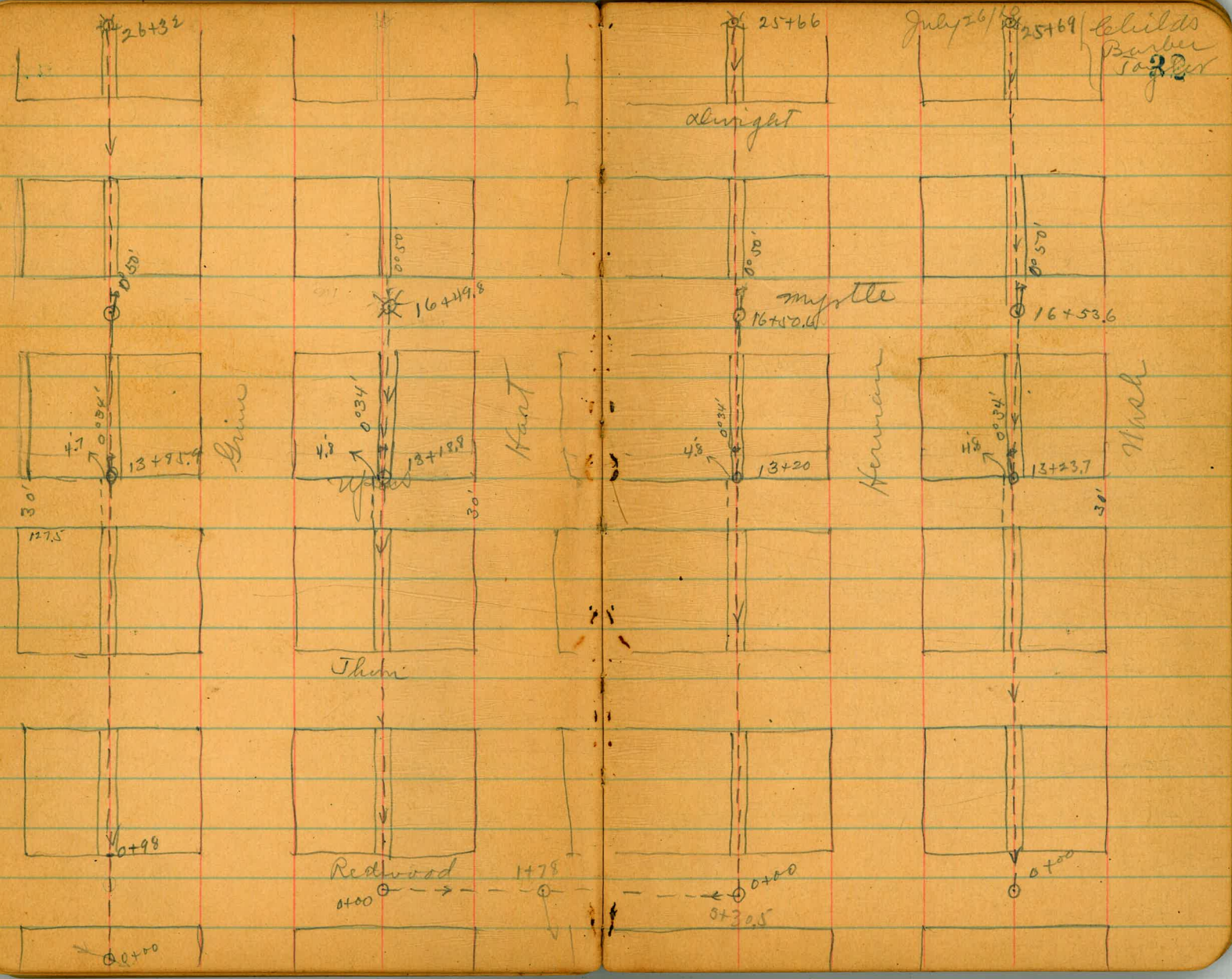
Sta.			H.I.	Rod	Elev.
			327.04		
8+00				1.4	325.6
+50				1.0	326.0
J.P.		3.95	330.15	0.84	326.20
9+00				4.0	326.1
+50				3.5	326.6
10+00				3.4	326.7
+50				3.1	327.0
11+00				3.4	326.7
+50				4.1	326.0
12+00				4.5	325.6
+50			0.4% grade.	4.8	325.3
13+00				5.0	325.1
+20	0°34' R M.H. 30' no. of So. line of Mpas.			4.94	325.21
+50				5.1	325.0
14+00				5.2	324.9
+50				5.5	324.6
15+00				5.1	325.0

Cont. from page 30

Sta.		H.I.	Rod	Elev.
	0.4 % grade	330.15		
15+50			5.6	324.5
16+00	about 2' deep,		7.9	322.2
	1° 10' L about 4.9 deep.			
+50.6	M.H. center of		4.86	325.29
T.P.	mystle 2.60	337.89		
17+00			11.4	326.5
+50			10.8	327.1
18+00			10.2	327.7
+50			9.5	328.4
19+00			9.0	328.9
+50			8.0	329.9
20+00			7.5	330.4
+50			6.3	331.6
21+00			6.1	331.8
+50			5.5	332.4
22+00			5.2	332.7
+50			4.8	333.1
23+00			4.3	333.6

July 26/10 { Shields, Barber, Taylor

Sta		H.I.	Rod	Elev.
		337.89		
23+50			4.2	333.7
24+00			3.5	334.4
+50			2.7	335.2
25+00			1.8	336.1
+50			0.9	337.0
+66	F.S. near pueblo line north of Dwight		0.9	337.0


26+32
25+66
July 26/10
25+69
Childs
Barber
Taylor
Dwight
30th
0°50'
16+49.8
16+50.6
16+53.6
myrtle
0°34'
4.7
13+85.9
4.8
13+18.8
13+20
13+23.7
Grim
Hart
Herman
Wash
30'
127.5
Thom
0+98
Redwood
0+00
1+78
0+30.5

Alley line bet. Herman & Nash from center of Dwight

Redwood to pulbloline North

July 29/10 Childs Barber Tay

Sta.		H.I.	Rod	Elev.
0+00	about 10' deep M.H. Center of Redwood	278.68	11.13	267.55
+50			10.9	267.8
1+00			7.7	271.0
+50			5.5	273.2
2+00			4.1	274.6
+50		288.95	5.8	283.1
+64		300.78	12.9	287.9
3+00			10.7	290.1
+30			4.6	296.2
T.P.	5.56	309.91		304.35
+50			12.0	297.9
+63			10.9	299.0
4+00			11.0	298.9
+25			5.3	304.6
+50			3.5	306.4
5+00			1.5	308.4
T.P.	10.56	320.15	0.32	309.59
+50			9.8	310.3

Profile placed Sheet C 6

Sta		H.I.	Rod	Elev.
6+00		320.15	7.2	312.9
+50			5.8	314.3
7+00			4.6	315.5
+50			3.8	316.3
8+00	about 12.3 deep.		3.8	316.3
+50	0.4% grade		4.3	315.8
9+00			4.6	315.5
+35			5.6	314.5
+50	about 3.2 deep		12.3	307.8
+55	0.4% grade		16.8	303.3
10+00			13.7	306.4
+25			12.1	308.0
+35			14.4	305.7
+50	about 3.5 deep.		11.6	308.5
+85			5.5	314.6
11+00			4.2	315.9

Cont. from page 33

Sta.		H.I.	Rod	Elev.
T.P.	12.83	329.17	3.81	316.34
11+50			10.8	318.4
12+00			8.8	320.4
+50			7.2	322.0
13+00			5.8	323.4
+23.7	M.H. 30' no. of Rd. line of mpds		5.15	324.0
+50			4.9	324.3
14+00			4.0	325.2
+50			3.0	326.2
15+00			2.1	327.1
+50			1.5	327.7
16+00			0.5	328.7
T.P.	11.43	339.71	0.89	328.28
+50			10.1	329.6
+53.6	M.H. center of mystle		10.05	329.7
17+00			9.5	330.2
+50			9.0	330.7
18+00			8.6	331.1

July 29/10 { Schilds Barber Taylor

Sta		H.I.	Rod	Elev.
		339.71		
18+50	2504 / 1653.6 / 915.4		8.2	331.5
19+00			7.5	332.2
+50			6.7	333.0
20+00			6.3	333.4
+50			5.7	334.0
21+00			5.6	334.1
+50			4.9	334.8
22+00			4.8	334.9
+50			4.4	335.3
23+00			4.2	335.5
+50			3.3	336.4
24+00			3.1	336.6
+50			2.5	337.2
25+00			2.0	337.7
+50			1.0	338.7
+69	F.S. near pueblo line mystle		0.4	339.3

Center of Redwood street from Hart to center of alley bet. Hart

Sta.		H.I.	Rod	Elev.
0+00	M.H. center alley bet. Grim & Hart.	313.90	0.63	313.27
+50			3.4	310.5
1+00			8.9	305.0
J.P.	0.50	301.57	12.83	301.07
+22			1.5	300.1
J.P.	0.35	289.25	12.67	288.90
+50			7.2	282.0
J.P.	4.50	280.89	12.86	276.39
+78	M.H. bottom of Canyon		11.25	269.64
+84			13.2	267.7
2+00			8.5	272.4
J.P.	12.85	293.64	0.10	280.79
J.P.	12.55	305.57	0.62	293.02
+50			12.4	293.2
+66			7.9	297.7
3+00			2.8	302.9
+30.5	M.H. center alley bet. Hart & Herman		1.22	304.35

center alley bet. Grim & Herman July 30/10 { Childs Barber Taylor

35

Profile Plotted Sheet 07

Alley line bet. 30th & 31st from north line of Redwood to bottom of canyon S.E. of Nutmeg.

Aug 1/10 {Clields Bagley Taylor

Sta.		H.I.	Rod	Elev.
	0° 32' R			
0+00	M.H. 98'20.0 no. line Redwood on center alley in north.	283.53	12.78	270.75
+21			15.2	268.3
+26			17.0	266.5
+50			10.8	272.7
T.P.		12.82	0.30	283.23
1+00			6.8	289.2
T.P.		12.45	0.32	295.73
+45			2.3	305.9
+50			1.6	306.6
T.P.		4.98	1.00	307.18
2+00			4.0	308.2
+50			3.4	308.8
	0° 32' L			
+60.7	M.H. Center of Quince Alley		3.35	308.81
3+00			3.9	308.3
+50			4.0	308.2
4+00			3.7	308.5
+50			4.9	307.3
5+00			4.3	307.9
+35	F.S. north of Palm		4.10	308.06

Sta.		H.I.	Rod	Elev.
6+40	F.S. south of Palm	312.16	5.4	306.8
+50			5.7	306.5
7+00			6.7	305.5
+50			8.2	304.0
8+00			10.1	302.1
+50			12.5	299.7
T.P.	0.41	299.54	13.03	299.13
+88			2.7	296.8
+90			3.6	295.9
9+00			5.4	294.1
+19.5	Center of olive		6.2	293.3
+50			8.2	291.3
10+00			13.1	286.4
T.P.	0.32	286.81	13.05	286.49
+50			5.2	281.6
+92			10.7	276.1
T.P.	0.20	274.35	12.66	274.15
11+00			1.6	272.7
T.P.	0.13	261.70	12.78	261.57
+50			2.1	259.6

Profile Alley Nutmeg

Cont. from page 36

Sta.			H.I.	Rod	Elev.
J.P.		0.02	249.32	12.36	249.34
11+57				3.4	245.9
+89				7.4	241.9
+92				4.8	244.5
12+00				8.9	240.4
J.P.		0.24	236.55	13.01	236.31
J.P.		0.15	223.72	12.98	223.57
+50				2.1	221.6
J.P.		10.43	222.14	12.01	211.71
+96	M.H. bottom of main Camping So. of Nutmeg			11.96	210.18

Aug 1/10 { Childs Barber Taylor

alley line bet. Redwood & Quince
alley bet. 30th & 31st to 32nd

Sta.			H.I.	Rod	Elev.
		6.11	276.86		270.75
0+00	M.H. bottom of Canyon 112' East of alley bet. 30th & 31st			12.83	264.03
+50				11.7	265.2
T.P.		12.35	287.55	1.66	275.20
1+00				1.8	285.8
T.P.		12.79	300.00	0.34	287.21
+10				10.9	289.1
+50				5.6	294.4
2+00				1.3	298.7
T.P.		4.59	304.09	0.50	299.50
+50				2.7	301.4
3+00				1.6	302.5
+25	F.S. 22.5' west of 31st			1.51	302.6
T.P.		0.46	292.03	12.52	291.57
4+35	F.S. 22.5' east of 31st			9.3	282.7
T.P.		0.07	279.21	12.89	279.14
+50				4.4	274.8
T.P.		6.86	273.38	12.69	266.52
+85				13.1	260.3
5+00				14.0	259.4
+05	M.H. bottom of Canyon			14.0	259.4
+07				12.64	260.74

from 122' East of alley 2/10 { Childs Barber Taylor

Sta			H.I.	Rod	Elev.
T.P.		12.52	285.79	0.11	273.27
5+50				11.1	274.7
T.P.		9.53	295.26	0.06	285.73
6+00				8.6	286.7
+50				3.6	291.7
7+00				2.7	292.6
+50	F.S. west.			2.7	292.6
+75	F.S. East			2.6	292.7
+92				2.6	292.7
8+00				10.8	284.5
+07				15.6	279.7
+15				17.1	278.2
+27				11.3	284.0
+37				12.7	282.6
T.P.		0.08	282.31	13.03	282.23
+50				8.3	274.0
T.P.		0.29	270.09	12.57	269.80
+70				6.9	263.2
9+00				13.6	256.5
+06				14.4	255.7

Grade Stakes
Walker C.E.

Cont. from page 38

Sta.			H.I.	Rod	Elev.
9+08			270.09	15.5	254.6
+32	M.H. bottom of Canyon			13.38	256.71
+38				14.1	256.0
+50				9.0	261.1
T.P.		12.23	282.21	0.11	269.98
+90	F.T. about 18'.5 from 32nd.			0.52	281.7

Aug 3/10 { Childs Barber Taylor

alley line bet. Quince & Palm
bet. 30th & 31st to near 32nd.

Sta.			H.I.	Rod	Elev.
		3.12	311.93		308.81
0+00	F.T. 25' East of alley bet. 30th & 31st			4.87	307.1
+50				4.9	307.0
1+00				4.0	307.9
+50				5.1	306.8
2+00				9.2	302.7
J.P.		0.97	299.89	13.01	298.92
+50				2.0	297.9
+65				3.5	296.4
3+00				9.5	290.4
J.P.		0.93	288.16	12.66	287.23
+18				1.9	286.3
J.P.		0.17	275.71	12.62	275.54
+50				8.5	267.2
J.P.		0.34	263.13	12.92	262.79
4+00				13.1	250.0
J.P.		3.92	254.29	12.76	250.37
+32.6	west line of 31st.			9.3	245.0
+45	M.H. bottom of Canyon			10.35	243.94
J.P.		11.37	265.50	0.16	254.13
J.P.		7.23	272.70	0.03	265.47
5+25	F.T. East about 27.6 east of 31st,			4.95	267.8
+34				3.8	268.9

Profile placed C-8

from 25' East of alley

Aug 3/10 { Childs Barber Taylor

Sta			H.I.	Rod	Elev.
5+40			272.70	6.6	266.1
+50				5.6	267.1
+55				5.9	266.8
+62				2.9	269.8
6+00				4.2	268.5
J.P.		0.26	260.21	12.75	259.95
+50				2.2	258.0
7+00				11.6	248.6
J.P.		9.09	256.88	12.42	247.79
+32	M.H. bottom of canyon			12.83	244.05
+37				15.4	241.5
+47				14.9	242.0
+50				13.4	243.5
+82				14.6	242.3
+97				5.1	251.8
8+00				3.6	253.3
J.P.		11.94	268.54	0.28	256.60
J.P.		12.11	280.63	0.02	268.52
+50				1.8	278.8
J.P.		12.16	292.25	0.54	280.09
+75				4.0	288.2
9+00				8.7	283.5

Cont. from page 40

Aug 3/10 { Childs Barber Jay

Sta.			H.T.	Rod	Elev.
9+25			292.25	16.1	276.1
+50				6.0	286.2
J.P.		12.34	304.58	0.01	292.24
10+00				9.5	295.1
+50				5.0	299.6
+72	F.S. about 23.2 from 32nd.			3.73	300.85

alley line bet. Olive & Palm from 43rd to near pueblo line east

Sta.		H.I.	Rod	Elev.
T.P.	0.53	308.59		308.06
0+00	F.T. 25' east of alley bet. 30th & 31st		5.37	303.2
+50			5.3	303.3
1+00			5.9	302.7
+50			7.0	301.6
2+00			9.9	298.7
T.P.	0.85	296.52	12.92	295.67
+50			2.0	294.5
3+00			8.7	287.8
T.P.	0.31	283.82	13.01	283.51
+50			4.0	279.8
+70			8.5	275.3
+77			12.8	271.0
T.P.	0.76	271.63	12.95	270.87
+88			2.0	269.6
+94			10.1	261.5
4+00			12.5	259.1
+07			12.8	258.8
+13			9.7	261.9
+18			9.7	261.9

Profile Pueblo Ave.

25' east of alley bet. 30th & 31st.

Blields
Barb
Jay

aug 8/10

42

Sta		H.I.	Rod	Elev.
T.P.	0.47	259.24	12.86	258.77
4+50			11.9	247.3
T.P.	0.28	246.72	12.80	246.44
+80			7.0	239.7
5+00			9.2	237.5
T.P.	10.88	246.36	11.24	235.48
+46			13.4	233.0
+50			14.4	232.0
+57			15.5	230.9
+62			14.2	232.2
6+00	M.H. bottom of Canyon		12.10	234.26
+15			9.9	236.5
T.P.	12.83	258.24	0.95	245.41
+50			10.4	247.8
T.P.	11.91	270.04	0.11	258.13
T.P.	12.51	282.19	0.36	269.68
7+00			10.5	271.7
T.P.	12.94	295.03	0.10	282.09
+42			2.9	292.1
+50			2.0	293.0
+70	F.T. about 22.6 from pueblo line east of 31st		0.12	294.9

alley line bet. olive & nutmeg from 30th & 31st to near pueblo line bet. 31st & 32nd

Sta.			H.I.	Rod	Elev.
J.P.		3.58	265.15		261.57
0+00	F.S. 25' east of			4.06	261.1
J.P.	alley bet 30th & 31st	0.53	252.79	12.89	252.26
+35				6.9	245.9
+50				8.0	244.8
+67				7.7	245.1
J.P.		0.69	240.54	12.94	239.85
+87				3.3	237.2
+97				2.5	238.0
1+00				3.4	237.1
+50				8.4	232.1
+93				12.0	228.5
J.P.		1.48	229.09	12.93	227.61
2+00				5.7	223.4
+03				11.0	218.1
+11				12.1	217.0
+13				10.9	218.2
+50				10.8	218.3
+68	M.H. bottom of Canyon			-9.92	219.17
3+00				7.0	222.1

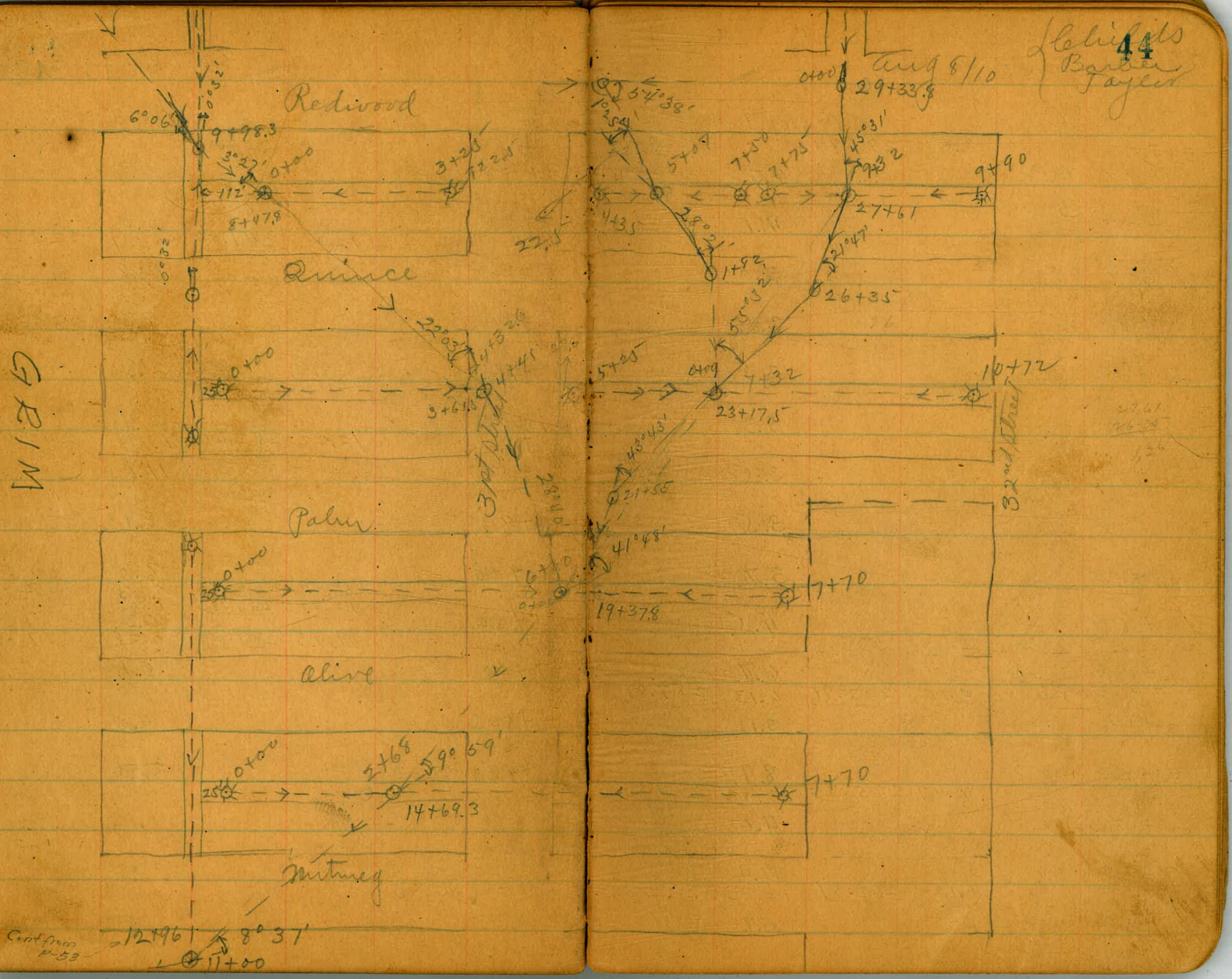
Profile plotted Sheet C-B

25' east of alley bet.

Aug 6/10

Childs Barber Tanner

Sta			H.I.	Rod	Elev.
			229.09		
3+50				4.9	224.2
4+00				3.0	226.1
J.P.		12.76	241.58	0.27	228.82
+50				10.8	230.8
+71				5.3	236.3
+96.7	East line 31st			2.8	238.8
5+00				2.4	239.2
J.P.		12.22	252.66	1.14	240.44
+50				11.1	241.6
+90				8.1	244.6
6+00				6.0	246.7
J.P.		13.03	265.36	0.33	252.33
J.P.		12.89	277.95	0.30	265.06
+50				6.3	271.6
J.P.		9.93	287.60	0.28	277.67
7+00				8.1	279.5
+50				4.3	283.3
+70	F.S. about 21' from pueblo line east of 31st			2.56	285.0


Redwood
Quince
Palm
Olive
Nutmeg
GRIM
Aug 8/10
Childs
Barber
Taylor
0+00
9+98.3
6°06'
3°27'
0+00
112'
8+47.8
3+25
22.5
0+00
3+61.5
4+45
22°03'
3rd Street
0+00
0+00
2+68
9°59'
14+69.3
0+00
29+33.8
54°38'
45°31'
5+07
7+50
7+75
9+32
9+90
27+61
4+35
28°21'
1+92
21°47'
26+35
55°32'
5+25
0+09
7+32
10+72
23+17.5
43°43'
21+55
41°48'
6+60
19+37.8
7+70
7+70
32nd Street
Cont from P-53
12+96
8°37'
11+00

Alley line bet. Juniper & Kalmia
from 25' west of 30th to bottom of canyon

Sta.			H.I.	Rod	Elev
J.P.		8.21	293.94		285.73
0+00	H.I. 25' west of 30th street			4.7	289.2
+50				4.1	289.8
1+00				3.0	290.9
+50				2.4	291.5
2+00				2.5	291.4
+50				3.3	290.6
3+00				3.5	290.4
+50				3.5	290.4
4+00				3.7	290.2
+50				4.5	289.4
5+00				6.4	287.5
J.P. +26.3 nail		0.10	287.91	6.13	287.81
+50				3.1	284.8
6+00				8.9	279.0
J.P.		0.47	275.35	13.03	274.88
+50				4.6	270.7
7+00				12.4	262.9
J.P.		0.18	262.51	13.02	262.33
+50				5.6	256.9

Field Book C. 11

184' north of Juniper in City park.

aug 9/10

Felichs
Barber
Jagger

Sta.			H.I.	Rod	Elev
			262.51		
8+00				9.7	252.8
+50				15.2	247.3
J.P.		0.33	250.00	12.84	249.67
9+00				10.0	240.0
+50				18.6	231.4
J.P.		0.00	237.08	12.92	237.08
10+00				13.4	223.7
J.P.		0.07	224.56	12.59	224.49
+50				11.4	213.2
11+00				19.7	204.9
J.P.		0.10	211.65	13.01	211.55
+50				16.1	195.5
J.P.		0.24	198.85	13.04	198.61
+70				7.9	191.0
J.P.		0.06	186.17	12.74	186.11
12+00				9.1	177.1
J.P.		0.80	174.06	12.91	173.26
+50				5.0	169.1
13+00				9.9	164.2
+25	mid. bottom of canyon in City Park.			10.28	163.78

alley line bet. Kalmia & Laurel
@ 30th to bottom of canyon near

Sta.			H.I.	Rod	Elev.
J.P.		9.05	296.86		287.81
6+00	H.I. 25' west of 30th street			7.2	289.7
+50				7.1	289.8
1+00				6.5	290.4
+50				4.7	292.2
2+00				4.0	292.9
+50				3.9	293.0
3+00				3.8	293.1
+50				3.7	293.2
4+00				3.7	293.2
+50				4.5	292.4
5+00				4.8	292.1
+46.25 nail					
+50				6.5	291.4
6+00				7.1	289.8
+50				9.7	287.2
7+00				13.2	283.7
J.P.		0.00	283.83	13.03	283.83
+50				3.7	280.1

Profile Platted Aug 21-10

from 25' west park line

Aug 10/10 Childs Barber Taylor

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Sta.		H.I.	Rod	Elev.
		283.83		
8+00			9.4	274.4
J.P.	1.35	272.30	12.88	270.95
+45			3.9	268.4
+50			5.4	266.9
J.P.	0.77	260.29	12.78	259.52
9+00			3.7	256.6
J.P.	0.06	247.45	12.90	247.39
+50			2.6	244.8
J.P.	0.24	234.77	12.92	234.53
10+00			0.9	233.9
J.P.	0.17	222.12	12.82	221.95
+50			9.5	212.6
J.P.	0.25	209.44	12.93	209.19
J.P.	0.29	197.14	12.59	196.85
11+00			2.7	194.4
J.P.	0.97	185.70	12.41	184.73
+50			4.1	181.6
J.P.	2.38	176.32	11.76	173.94
12+00			4.7	171.6
+10	25 ft. bottom of Canyon near City Park		4.91	171.41

Laurel street from 740' west
city park.

Sta.			H.I.	Rod	Elev.
J.P.		9.55	256.94		247.39
0+00	F.J. 740' west of 30th street			3.91	253.0
+41				16.6	240.3
+50				14.4	242.5
J.P.		0.07	244.14	12.87	244.07
+91				5.7	238.4
1+00				8.4	235.7
J.P.		0.43	231.91	12.66	231.48
+50				9.4	222.5
J.P.		0.55	220.16	12.30	219.61
2+00				9.1	211.1
J.P.		0.33	208.01	12.48	207.68
+30				2.4	205.6
+50				9.9	198.1
J.P.		0.26	195.51	12.76	195.25
3+00				13.4	182.1
J.P.		5.53	188.64	12.40	183.11
+50				12.4	176.2
+65	M.H. bottom of Canyon			12.44	176.20
+72				13.2	175.4
+80				16.8	171.8
+87				16.8	171.8
+92				15.0	173.6

of 30th to near

Aug 10/10 — Childs, Barber, Taylor

4

Sta			H.I.	Rod	Elev.
			188.64		
4+00				14.1	174.5
+20				13.3	175.3
+42				5.2	183.4
+50				3.9	184.7
J.P.		10.72	196.66	2.70	185.94
5+00	F.J. near city park.			8.52	188.14

Profile Slotted
Sheet C-9

Alley line bet. Laurel & Maple to near City park.

Sta.			H.I.	Rod	Elev.
J.P.		10.68	291.43		280.75
0+00	F.T. 25' west of 30th			0.89	290.5
+50				1.4	290.0
1+00				4.0	287.4
+50				8.4	283.0
J.P.		0.17	278.90	12.70	278.73
2+00				0.7	278.2
+50				6.0	272.9
J.P.		0.06	265.98	12.98	265.92
3+00				5.4	260.6
J.P.		0.19	254.30	11.87	254.11
+50				1.0	253.3
J.P.					
4+00				11.2	243.1
J.P.		0.38	241.78	12.90	241.40
+50				11.2	230.6
J.P.		0.50	229.42	12.86	228.92
5+00				7.5	221.9
J.P.		0.27	217.03	12.66	216.76
+40				1.4	215.6
+50				4.8	212.2
J.P. +67.4 nail		0.30	205.00	12.33	204.70
+79				4.3	200.7
6+00				9.3	195.7
J.P.		3.05	195.02	13.03	191.97
+50				3.8	191.2

Profile Plotted Sheet C-10

from 25' west of 30th

Aug 11/10 {Childs Barber Joyce

Sta			H.I.	Rod	Elev.
B.M.			195.02		
7+00				7.2	187.8
+25 →	M.H. bottom of Canyon			9.13	185.89
+50				10.8	184.2
8+00				11.53	183.5
+18				12.5	182.5
+48				15.2	179.8
+50				13.2	181.8
9+00				16.2	178.8
+11				16.9	178.1
+15				15.7	179.3
+30				17.4	177.6
+40				17.2	177.8
+50	M.H. bottom of Canyon			15.10	179.92
10+00				6.6	188.4
+50				3.1	191.9
J.P.		12.89	205.92	1.99	193.03
11+00				3.2	202.7
+15				2.9	203.0

Cont. from page 48

Sta		H.I.	Rod	Elev.
T.P.	12.19	215.30	2.81	203.11
11+30			7.2	208.1
+50			5.1	210.2
T.P.	12.05	224.83	2.52	212.78
12+00			6.8	218.0
+50	F.S. near City park.		3.69	221.1

aug 11/10 Childs Barber Taylor

Maple Street from 30th to 30' west of 30th Street
near city park. Aug 12/10 Blields Barber Jay

Sta.			H.I.	Rod	Elev.
J.P.		9.95	231.99	9.20	222.04
0+00	F.S. 30' west of 30th Street			1.6	230.4
+50				2.4	229.6
J.P.		4.09	222.24		218.15
+95				8.0	214.2
1+00				6.2	216.0
+20				-0.2	222.4
+50				5.1	217.1
+70				5.7	216.5
2+00				10.0	212.2
J.P.		0.14	209.29	13.09	209.15
+50				1.0	208.3
3+00				6.3	203.0
+50				11.2	198.1
4+00				12.8	196.5
J.P.		7.10	203.41	12.98	196.31
+50				10.2	193.2
5+00				12.1	191.3
+10	M.H. bottom of Culvert			12.55	190.86
+25				14.1	189.3

Profile Elev. 6'11

Sta			H.I.	Rod	Elev.
			203.41		
5+30				15.3	188.1
+37				12.6	190.8
+50				8.9	194.5
J.P.		10.96	213.53	0.84	202.57
6+00				4.6	208.9
J.P.		4.73	217.49	0.77	212.76
+30	F.S. east			0.9	216.6
7+53	M.H. bottom of Culvert			11.59	205.90
J.P.		9.91	218.10	9.30	208.19
9+34	M.H. bottom of Culvert			8.66	209.44
+50				1.8	216.3
J.P.		12.98	230.93	0.15	217.95
J.P.		12.28	242.98	0.23	230.70
+83				10.1	232.9
10+00				5.5	237.5
J.P.		12.66	254.91	0.73	242.25
+30				10.6	244.3
+50				7.5	247.4
11+00				0.6	254.3
J.P.		12.61	267.15	0.37	254.54
+50				8.5	258.6

cont. from page 50

Sta		H.I.	Rod	Elev.
12+00		267.15	7.1	260.0
+50			7.4	259.7
+75	F.J. near city park,			

Aug 12/10

Childs
Barber
Taylor

alley line bet. Maple & nutmeg 30th to near city park

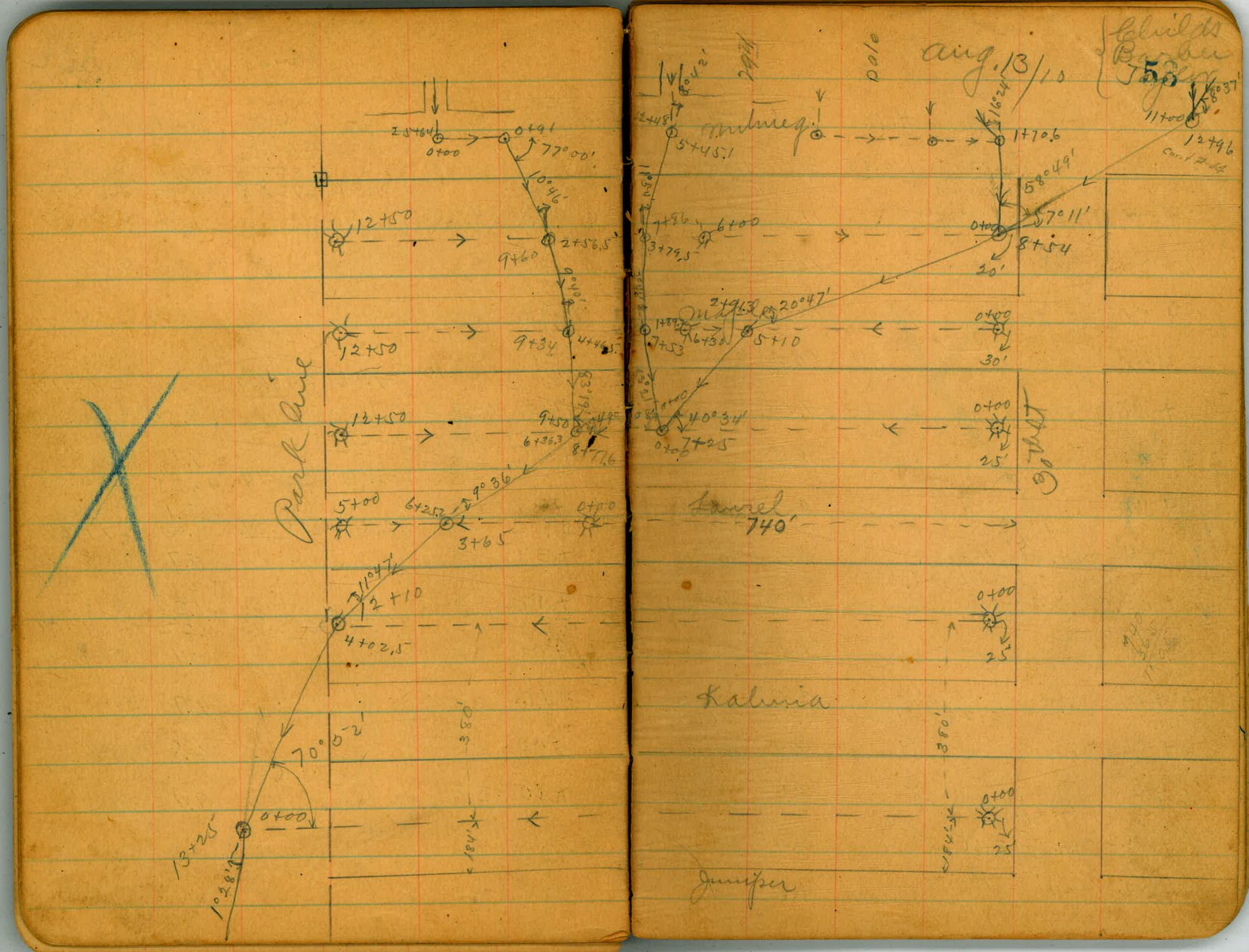
sta			H.I.	Rod	Elev.
J.P.		9.02	218.17		209.15
0+00	M.H. 20' west of 30th street			13.48	204.69
+50				14.1	204.1
+79				13.5	204.7
1+00				6.9	211.3
+50				5.9	212.3
2+00				6.9	211.3
+50				2.8	215.4
J.P.		12.86	230.65	0.38	217.79
3+00				8.5	222.1
+35				4.7	225.9
+43				6.4	224.2
+50				6.2	224.4
+85				4.2	226.4
J.P.		12.55	242.03	1.17	229.48
4+00				11.2	230.8
+50				1.6	240.4
J.P.		13.04	254.80	0.27	241.76
5+00				0.4	254.4
J.P.		12.95	267.56	0.19	254.61
+33				8.1	259.5

Profile Slatted Sheet C.R.

from 20' west of Aug 13/10 Childs Baker Taylor

52

sta.			H.I.	Rod	Elev.
			267.56		
5+50				1.7	265.9
J.P. +93.1 nail		5.59	272.58	0.57	266.99
6+00	F.S. east			0.8	271.8
7+86	M.H. bottom of Canyon				
J.P.		-1.50	248.69	13.00	247.19
9+60	M.H. bottom of Canyon			8.56	240.13
+65				9.9	238.8
J.P.		-0.04	260.19	12.35	260.23
10+00				3.1	257.1
J.P.		12.57	284.26	0.89	271.69
+35				5.7	278.6
+50				1.3	283.0
J.P.		9.79	293.83	0.22	284.04
11+00				5.4	288.4
+50				4.9	288.9
12+00				6.8	287.0
+50	F.S. near City Park line			9.4	284.4



Park line
Aug. 13/10
Childs Barber Tyler
Mutmeg
Maple
Laurel
740'
Kalmia
Juniper

Main Canyon line from 13+25 to Kalmia to sta. 0+00 on alley line.

Sta		H.I.	Rod	Elev
0+00	M.H. Sta. 13+25 on alley line bet. Juniper & Kalmia	176.35	12.57	163.78
+50			11.8	164.5
1+00			10.7	165.6
+50			12.0	164.3
2+00			10.2	166.1
+50			9.4	166.9
3+00			8.1	168.2
+50			6.5	169.8
	11° 47' R			
4+00	M.H. Sta. 12+10 on alley line bet. Kalmia & Laurel.		5.0	171.3
+02.5			4.94	171.41
+50			4.1	172.2
5+00			3.1	173.2
J.P.		8.98	183.11	2.22	174.13
+50			8.4	174.7
6+00			7.6	175.5
	9° 36' R			
+25.2	M.H. Sta. 3+65 on Laurel street		6.90	176.21
+50			6.2	176.9

on alley line bet. Juniper bet. Herman & 32nd Aug 30/10 — Chiddo Barr Taylor

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Sta.		H.I.	Rod	Elev.
		183.11		
7+00			5.0	178.1
+50			4.5	178.6
8+00			3.5	179.6
+50			4.0	179.1
+55			6.3	176.8
+72			6.3	176.8
	49° 08' R			
+77.6	M.H. Sta 9+50 on alley line bet. Laurel & maple.		3.19	179.92
J.P.		11.21	191.13	
	40° 34' L			
0+00	M.H. Sta 7+25 on alley line bet.		5.24	185.89
+28	Laurel & maple		8.3	182.8
+50			5.8	185.3
1+00			2.4	188.7
J.P.		11.92	201.05	2.00	189.13
+50			10.7	190.3
2+00			11.1	189.9
+15			14.0	187.0
+50			10.8	190.2

Cont. from page 54

Sta			H.I.	Rod	Elev.
	20° 47' R		201.05		
2+91.3	M.H. 5+10 on Maple street line			10.17	190.88
3+00				9.8	191.2
+06				9.3	191.7
+10				12.2	188.8
+43				11.2	189.8
+50				9.3	191.7
4+00				7.1	193.9
+50				5.5	195.5
+80				4.6	196.4
+85				6.8	194.2
5+00				6.7	194.3
+50				5.2	195.8
T.P.		10.62	210.19	1.48	199.57
6+00				10.0	200.2
+50				6.4	203.8
7+00				3.7	206.5
+35				4.4	205.8

Profile Sheet C-15

Aug 27/10 { Edwd A. Barber Jay

Sta			H.I.	Rod	Elev.
7+50			210.19	7.0	203.2
8+00				6.2	204.0
+50				5.5	204.7
+54	7° 11' L M.H. Sta 0+00 on alley line bet.			5.49	204.70
+68	Maple & Nutmeg			6.2	204.0
+84				8.0	202.2
9+00	about 1' above grade of 30th st.			7.2	203.0
+24	water main			4.6	205.6
+50				4.0	206.2
+85				5.4	204.8
T.P.		12.94	220.66	2.47	207.72
10+00				14.7	206.0
+40				15.1	205.6
+50				13.4	207.3
11+00	8° 37' L M.H. Sta 12+96 on alley line bet.			10.48	210.18
+50	30th & 31st			7.5	213.2
12+00				5.8	214.9

Cont. from page 55

Sta			H.I.	Rod	Elev.
12+50			220.66	3.8	216.9
13+00				2.3	218.4
+50				1.5	219.2
14+00				1.8	218.9
J.P.		8.99	228.80	0.85	219.81
+12				12.8	216.0
+20				10.7	218.1
+50				10.9	217.9
+69.3	9° 59' L M.H. sta 2+68 on alley line bet. Nutmeg & Olive			9.65	219.15
15+00				8.8	220.0
+50				7.5	221.3
16+00				3.9	224.9
+11				2.6	226.2
+15				6.7	222.1
+50				4.8	224.0
+75				2.6	226.2
17+00				1.7	227.1

Aug 27/10 { Childs Barber Tagus

Sta			H.I.	Rod	Elev.
J.P.		11.90	239.02	1.68	227.12
17+50				10.8	228.2
18+00				10.1	228.9
+50				8.4	230.6
+85				7.4	231.6
+90				8.4	230.6
19+00				6.9	232.1
+37.8	41° 48' L M.H. sta 6+00 on alley line bet. Olive & Palm.			4.83	234.19
+50				5.0	234.0
20+00				3.8	235.2
+50				2.3	236.7
21+00				2.3	237.7
J.P.		10.97	249.06	0.93	238.09
+50				10.5	238.6
+55	43° 43' R M.H. angle			10.42	238.64
+83				11.6	237.5
22+00				10.3	238.8
+50				8.2	240.9

Cont. from page 56

Sta.			H.I.	Rod	Elev.
			249.06		
23+00				5.0	244.1
+17.5	M.H. Sta 7+32 on			5.06	244.00
+22	alley line bet. Palm & Quince			5.2	243.9
+24				7.0	242.1
+37				5.1	244.0
+50				4.3	244.8
24+00				3.8	245.3
+06				5.1	244.0
+12				3.8	245.3
J.P.		11.32	258.98	1.40	247.66
+50			259.0	8.6	250.4
+92				6.9	252.1
25+00				8.4	250.6
+50				8.1	250.9
+66				9.0	250.0
+90				7.1	251.9
26+00				6.8	252.2

Aug 29/10 | Childs Barber Taylor

Sta			H.I.	Rod	Elev
26+35	21° 47' L M.H. angle		258.98	4.65	254.33
+50				4.2	254.8
27+00				3.5	255.5
J.P.		9.01	265.04	2.95	256.03
+50				8.3	256.7
+61	45° 31' L M.H. Sta 9+32 on			8.41	256.63
+63	alley line bet. Quince & Redwood.			10.3	254.7
28+00				7.1	257.9
+50				4.0	261.0
J.P.		11.11	272.18	3.97	266.07
29+00				6.4	265.8
+33.8	M.H. Sta 0+00 on alley line bet. Herman & 32nd. on Center Redwood,	about 10' deep.		4.80	267.38

	N	E	S
l sin N. 20°46' W. = 9.549693			
~~l cos~~ 186.7 = 2.271144			
1.820837			
l cos N. 20'46 = 9.970827			
186.7 = 2.271144			
2.241971			
1745			
l. ~~sin~~ N. 22 32 W. = 9.583145			
172.8 = 2.237292			
1.820437			
cos N. 22.32 W = 9.965511			
172.8 = 2.237292			
2.202803			
1595			

1745
1595
150

Canyon line from sta. 23+17.5 on main Canyon line
to sta on center Redwood.

Aug 29/10 | Childs Barber Jag

Sta		H.I.	Rod	Elev.
0+00	55°32' B M.H. sta. 23+17.5 on main Canyon line	256.99	12.99	244.00
+50			9.2	247.8
1+00			8.0	249.0
+22			8.3	248.7
+50			3.9	253.1
+82	28°21' L M.H. angle		3.89	253.10
2+00			4.6	252.4
+05			4.9	251.1
J.P.	9.62	261.77	4.84	252.15
+50			5.5	256.3
3+00			4.9	256.9
+50			3.2	258.6
J.P.	1°25' R 10.60	270.29	2.08	259.69
+69	M.H. sta 5+07 on alley line bet. Quince & Redwood.		9.64	260.65
4+00			7.4	262.9
+37			8.2	262.1
+50			6.4	263.9
5+00			5.0	265.3

Sta.		H.I.	Rod	Elev.
5+50		270.29	1.5	268.8
+61			2.7	267.6
+67.5	125°22' M.H. sta 1+78 on center Redwood		0.73	269.56

Crosslo Slotted Sheet C-12

Examine line from sta 6+00 on alleyline bet. Olive & Palm to sta 8.+22.1 in Center Dale ST.

Aug. 30/10 | Schilpto Barber Taylor

Sta.		H.I.	Rod	Elev.
	28°40' L			
0+00	M.H. Sta 6+00 on alleyline bet. Olive & Palm.	242.92	8.73	234.19
+50			10.0	232.9
+75			9.5	233.4
+85			10.9	232.0
1+00			8.6	234.3
+50			5.7	237.2
2+00			3.4	239.5
+50			3.2	239.7
+70			4.4	238.5
T.P.		11.15	2.90	240.02
+95			8.2	243.0
3+00			10.0	241.2
+03			10.9	240.3
+50			7.6	243.6
	22°03' L			
+61.5	M.H. Sta 4+45 on alley line bet. Palm & Quince.		7.26	243.91
+84			7.1	244.1
4+00			6.1	245.1

Note Out

Jurisdiction Sta 6+00 Elev. 237

alleyline bet. Olive & Palm

Sta		H.I.	Rod	Elev.
4+50		251.17	3.8	247.4
+63			4.9	246.3
T.P.	12.90	261.83	2.24	248.93
5+00			10.7	251.1
+50			7.8	254.0
6+00			8.4	253.4
+50			5.8	256.0
7+00			1.4	260.4
T.P.	8.27	269.63	0.47	261.36
+50			8.1	261.5
+95			8.0	261.6
8+00			9.4	260.2
+16			9.4	260.2
+29			7.4	262.2
	3°27' L			
+47.8	M.H. Sta 0+00 on alleyline bet. Quince & Redwood.		5.64	263.99
+50			5.6	264.0
9+00			3.8	265.8
T.P.	8.13	274.29	3.47	266.16
+31			9.6	264.7

Cont. from page 60

Sta		H.I.	Rod	Elev.
9+50		274.29	9.1	265.2
	6° 06' R			
+98.3	M.H. Sta 0+00 on alley line bet. 30th & 31st.		3.58	270.71
10+00			3.5	270.8
J.P.		12.94	283.80	3.43	270.86
+50			8.0	275.8
11+00			11.5	272.3
+30			7.2	276.6
J.P.		12.78	295.74	0.84	282.96
+50			12.6	283.1
J.P.		10.71	305.44	1.01	294.73
+90			2.3	303.1
12+00			2.2	303.2
+50			1.6	303.8
+75			0.3	305.1
+95			9.2	296.2
13+00			10.1	295.3
J.P.		0.79	296.27	9.96	295.48
+50			4.0	292.3
14+00			8.2	288.1
+50			8.6	287.7

See Book 827

aug 30/10 { Clutts, Barber, Taylor

Sta		H.I.	Rod	Elev.
	18° 57' R			
14+63.8	M.H. Sta 3+40 on alley line bet. 30th & Dale,	296.27	8.82	287.45
+76			9.8	286.5
15+00			5.2	291.1
J.P.		10.02	301.08	5.21	291.06
+30			11.5	289.6
+50			9.3	291.8
+80			9.3	291.8
16+00			7.5	293.6
+50			4.8	296.3
17+00			3.1	298.0
	43° 15' L			
+07	M.H. angle.		2.88	298.20
J.P.		9.23	307.43		
+22			10.0	297.4
+50			8.6	298.8
	111° 08' L			
+68.7	M.H. Sta 8+22 on Dale street		8.14	299.29

Canyon line from sta 0+00 on nutmeg to sta 9+15 on alley line bet.

Sta.			H.I.	Rod	Elev.
	58° 49' L				
0+00	M.H. sta 0+00 on alley line bet.		217.54	12.84	204.70
+50	maple + nutmeg			8.1	209.4
1+00				5.0	212.5
J.P.		12.63	228.92	1.25	216.29
+50				12.1	216.8
	16° 24' L				
+70.6	M.H. sta 4+46 on nutmeg street			10.75	218.17
2+00				9.5	219.4
+50				3.2	225.7
J.P.		13.07	239.29	2.70	226.22
3+00				11.3	228.0
	15° 31' L				
+41	M.H. angle			5.28	234.01
+50				5.6	233.7
4+00				3.0	236.3
J.P.		11.40	247.97	2.72	236.57
+32				10.2	237.8
+50				7.4	240.6
+72				4.4	243.6
5+00				4.7	243.3
	27° 05'				
+26.1	M.H. sta 9+15 on alley line bet. 30th & Dale			2.67	245.30

alley line bet. maple + Dale + 30th

Aug 31/10 { Childs Barber Taylor

62

Probe plotted Sheet C-12

Canyon line from sta. 7+25 on alley line bet. Maple & Laurel to sta 12+48 on Nutmeg street.

Aug. 31/10 — Childs, Barber, Taylor

Sta			H.I.	Rod	Elev.
0+00	M.H. 7+25 on alley line bet. Maple & Laurel.		197.95	12.06	185.89
+20				14.2	183.8
+25				15.8	182.2
+36				12.6	185.4
+50				10.6	187.4
1+00				1.7	196.3
J.P.		12.68	210.35	0.28	197.67
+25				10.5	199.8
J.P.		9.84	219.11	1.08	209.27
+47				8.2	210.9
+50				7.8	211.3
+54				8.2	210.9
+67				12.8	206.3
+89.2	2° 46' R M.H. sta 7+53 on center Maple St.			13.19	205.92
2+00				12.7	206.4
+50				6.7	212.4
J.P.		12.67	230.87	0.91	218.20
3+00				11.0	219.9
+09				11.9	219.0

Profile plotted Sheet C 13

Sta.			H.I.	Rod	Elev.
			230.87	5.5	225.4
3+50					
J.P.	11° 54' R	12.59	243.14	0.32	230.55
+79.5	M.H. sta. 7+86 on alley line bet. Nutmeg & Maple			11.88	231.26
4+00				6.1	237.0
J.P.		12.57	255.30	0.41	242.73
+50				3.5	251.8
J.P.		12.73	267.91	0.12	255.18
J.P.		12.86	280.76	0.01	267.90
5+00				6.8	274.0
J.P.		12.51	292.87	0.40	280.36
+18				8.8	284.1
+45.1	9° 42' L M.H. sta 12+48 on alley line bet. 29th & Orlando on Nutmeg.			2.66	290.21

16' so. of no. line of nutmeg parallel to line from sta 25+64 on alley line bet. 28th

Sta.			H.I.	Rod	Elev.
0+00	M.H. Sta 25+64 on alley line bet. Granada + 28th		29 8.10	3.15	295.95
+43				5.4	293.7
+50				11.8	287.3
J.P.		1.36	287.68	12.78	286.32
J.P.		0.51	276.07	12.12	275.56
+82				6.2	269.9
	77° 00' R				
+91	M.H. 16' so. of no. line of nutmeg.			5.26	270.8
1+00				9.3	266.8
J.P.		1.05	264.35	12.77	263.30
+23				2.0	262.3
+50				1.1	263.2
2+00				11.2	253.1
J.P.		0.06	251.79	12.62	251.73
+35				9.2	242.6
+50				10.9	240.9
	10° 46' R				
+56.5	M.H. Sta 9+60 on alley line bet maple & nutmeg.			11.66	240.13
+73				10.5	241.3
3+00				12.7	239.1
J.P.		0.47	239.28	12.98	238.81
+81				3.8	235.5
+50				9.0	230.3
J.P.		0.08	227.41	11.95	227.33
4+00				11.5	215.9

north

Sept 1/10

Fields
Barber
Jaggar

Granada + to sta 9+50 on alley line bet. maple & laurel.

Sta.			H.I.	Rod	Elev.
	9° 40' R	0.87	215.39	12.89	214.52
4+46.5	M.H. Sta 9+34 on maple st. line			5.99	209.40
+50				6.4	209.0
+55				9.8	205.6
+61				7.2	208.2
+70				6.5	208.9
5+00				15.9	199.5
+35				6.7	208.7
+50				8.4	207.0
+57				8.7	206.7
J.P.		1.23	203.84	12.78	202.61
+80				1.6	202.2
6+00				8.3	195.5
J.P.		0.74	192.00	12.58	191.26
+25				5.2	186.8
+36.3	M.H. Sta. 9+50 on alley line bet maple & laurel.			12.12	179.88

Profile Elev. 1st

Main canyon line from Sta. 13+25 to Kalmia through City Park

Sta.		H.I.	Rod	Elev.
	1° 28' L			
0+00	M.H. Sta 13+25 on alley line bet. Kalmia & Juniper	164.99 (165.0)	1.21	163.78
+50			3.5	161.5
1+00			5.2	159.8
+18			6.3	158.7
+25			4.8	160.2
+50			4.8	160.2
2+00			6.2	158.8
+22			7.6	157.4
+32			9.7	155.3
+38			6.6	158.4
+50			6.7	158.3
3+00			7.7	157.3
+32			8.7	156.3
+45			10.6	153.4
+50			10.7	153.3
+67			10.0	155.0

on alley line bet Juniper

Sept. 1/10

{Schultz, Barber, Taylor}

Sta		H.I	Rod	Elev.
3+79		164.99	12.4	152.6
4+00			11.4	153.6
+50 J.P.	26° 19' R M.H. angle (36+47)	1.33 155.90	10.42	154.57
5+00			2.8	153.1
+50			5.1	150.8
6+00			6.2	149.7
+50	in road.		8.3	147.6
7+00			7.8	148.1
+50			9.2	146.7
8+00	(92+97)		10.5	145.4
+20			11.1	144.8
+50			10.8	145.1
+64			11.4	144.5
+80			13.5	142.4
9+00			13.6	142.3
+50			13.6	142.3

Cont. from page 65

Sta.		H.I.	Rod	Elev.
		155.90		
9+79			14.1	141.8
+85			12.0	143.9
T.P.	1.35	145.18	12.07	143.83
10+00			1.3	143.9
+50			2.6	142.6
11+00			3.6	141.6
+50	4° 17' L M.H. angle.		3.45	141.7
12+00			5.7	139.5
+50			7.5	137.7
13+00			9.0	136.2
+50			9.9	135.3
14+00			12.1	133.1
+50			13.0	132.2
T.P.	3.34	135.57	12.95	132.23
+82			5.5	130.1
15+00	in road		5.5	130.1
+50			4.9	130.7
16+00			5.3	130.3

Sept. 2/10 { Schilds Barber Jay

Sta.		H.I.	Rod	Elev.
	6° 24' R	135.57		
16+30	M.H. angle.		6.49	129.08
T.P.	3.51	132.59		
+50			4.5	128.1
+89			6.1	126.5
+95			4.7	127.9
17+00			4.8	127.8
+50			6.5	126.1
18+00			7.3	125.3
+50			8.4	124.2
19+00			9.4	123.2
+50			12.1	120.5
+57			13.7	118.9
+70			11.7	120.9
+82			12.6	120.0
T.P.	2.41	122.43	12.57	120.02
+85			5.0	117.4
20+00			4.9	117.5
HS			5.3	116.9
			~~3.0~~	

Cont. from page 66

Sta.			H.I.	Rod	Elev.
20+25			122.43	3.6	118.8
+50				3.8	118.6
21+00				2.7	119.7
+50				4.4	118.0
22+00	11° 08' R m.H. angle			5.53	116.9
+50				8.0	114.4
+62				9.7	112.7
+83				7.1	115.3
23+00				7.5	114.9
+50				6.5	115.9
24+00				8.1	114.3
+50				9.5	112.9
25+00				10.5	111.9
+35	25° 28' L m.H. angle			11.37	111.06
J.P.		2.34	113.40		
+50				2.8	110.6
26+00				4.2	109.2

Sept. 2/10 { Childs Barber Taylor

Sta.			H.I.	Rod	Elev.
26+50			113.40	5.5	107.9
27+00				6.4	107.0
+50				7.5	105.9
28+00				8.4	105.0
+50				9.2	104.2
29+00	9° 06' R m.H. angle			9.94	103.5
+35				10.5	102.9
+50				13.0	100.4
30+00				13.3	100.1
+27				14.5	98.9
+30				12.2	101.2
+50				12.6	100.8
31+00				12.7	100.7
J.P.		2.26	103.78	11.88	101.52
+50				3.2	100.6
32+00				3.4	100.4
+50	17° 04' L m.H. angle			4.23	99.6

Cont. from page 67

Sta.		H.I.	Rod	Elev.
33+00		103,78	5.1	98.7
+50			5.8	98.0
34+00			7.2	96.6
+50			9.3	94.5
35+00			10.7	93.1
+50			11.9	91.9
36+00			12.5	91.3
+50	new sta. 36+17 31°25' R change in line 42°23' R		12.9	90.9
+80	M.H. angle	4+75	13.00	90.78
J.P.	1.47	92.25		
37+00			2.4	89.8
+35			3.1	89.1
+50	in Boulevard		1.3	90.9
+70	" "		1.6	90.6
+92			4.9	87.3
38+00			5.5	86.7
+50			6.4	85.8

367' new line

88.3 grd.

Sept. 2/10 — Childs, Barber, Taylor

Sta.		H.I.	Rod	Elev.
39+00		92,25	7.1	85.1
+15			7.4	84.8
+20			5.8	86.4
+50			6.2	86.0
40+00			7.2	85.0
+50			8.0	84.2
41+00			9.1	83.1
+50	new sta. 40+92 18° 40' L change 23° 42' L		10.2	82.0
+42+00	M.H. angle	1.89	10.82	81.43
J.P.	Junction with Canyon from Florida St.	83.32		
+28			2.1	81.2
+37			4.4	78.9
+50			4.5	78.8
43+00			5.9	77.4
+50			6.8	76.5
+77			8.2	75.1
44+00			4.7	78.6

475' new line

45' [illegible]

Cont. from page 68

Sta.		H.I.	Rod	Elev.
		83.32		
44+50			5.6	77.7
45+00			6.7	76.6
+50			7.5	75.8
46+00			7.7	75.6
+37			8.8	74.5
+50			7.2	76.1
+58			9.0	74.3
47+00			9.5	73.8
T.P.	3.00	77.87	8.45	74.87
+50			4.1	73.8
48+00			3.8	74.1
+50			4.3	73.6
49+00			4.8	73.1
+50			6.0	71.9
+56			6.2	71.7
+64	about 2' above bottom of creek		8.8	69.1
+74			6.9	71.0

Sept. 3/10 { Childs, Barlow, Taylor

Sta		H.I.	Rod	Elev.
		77.87		
50+00			7.5	70.4
+50	2° 45' L M.H. angle		7.87	70.00
T.P.		4.65	74.65	
51+00			6.5	68.1
+50			8.9	65.7
52+00			9.6	65.0
+50			10.0	64.6
53+00			11.0	63.6
+50			12.6	62.0
54+00			13.1	61.5
+50			13.4	61.2
+83			0.7	73.9
+90	3° 44' L M.H. angle top of coffer dam		0.62	74.03
55+00			4.2	70.4
+25.32	Park line		13.0	61.6
T.P.		6.15	67.79	13.01 61.64
+50			6.7	61.1
56+00			7.4	60.4

Cont. from page 69

Sta.		H.I.	Rod	Elev.
56+50		67.79	8.2	59.6
57+00			8.1	59.7
+50			10.5	57.3
58+00	27° 07' L M.H. angle.		11.16	56.63
+50			11.3	56.5
59+00			11.8	56.0
69+50			10.9	56.9
60+00			11.0	56.8
+50			10.4	57.4
61+00			10.8	57.0
+50			11.4	56.4
62+00			11.2	56.6
+50			11.4	56.4
63+00			11.5	56.3
+50			11.1	56.7
64+00			10.7	57.1

Sept. 3/10 { Childs Barber Taylor

70

Sta		H.I.	Rod	Elev.
64+50		67.79	9.9	57.9
+55			9.5	58.3
+72			2.7	65.1
65+00			3.0	64.8
+24.2	79° 40' R M.H. 16' so. & 30'		2.82	64.97
J.P. +50	west of center of C & 19th 0.40	65.37	1.4	64.0
66+00			3.5	61.9
+50			5.2	60.2
67+00			7.2	58.2
+50			8.8	56.6
68+00			9.3	56.1
+50			10.1	55.3
69+00			10.5	54.9
+50			10.8	54.6
70+00			11.2	54.2
+50			11.2	54.2

Cont. from page 70.

Sta.			H.I.	Rod	Elev.
			65.37		
71+00				10.4	55.0
+50				9.4	56.0
72+00				8.4	57.0
+50				7.0	58.4
73+00				6.3	59.1
+20.2	M.H. 16' So. + East of center of 16th + C Streets			5.51	59.9
+50				5.9	59.5
74+00				6.5	58.9
+50				7.3	58.1
75+00				8.0	57.4
+50				8.8	56.6
76+00				9.3	56.1
+50				9.4	56.0
77+00				9.5	55.9
+50				10.4	55.0
J.B.		9.52	62.22	12.67	52.70
78+00				10.4	51.8

Sept. 6/10 { Chiles Barber Taylor

71

Sta.		H.I.	Rod	Elev.
		62.22		
78+50			13.9	48.3
79+00			14.7	47.5
+50			15.2	47.0
80+00			14.3	47.9
+04			14.0	48.2
+26			0.2	62.0
+50			0.7	61.5
81+00			0.3	61.9
+04			0.3	61.9
+26			13.7	48.5
+50			13.3	48.9
+70			12.7	49.5
+85	loose dirt		8.9	53.3
82+00	" "		10.8	51.4
+07			12.6	49.6
+50			12.1	50.1

Cont. from page 71.

Sta.		H.I.	Rod	Elev.
83+00		62.22	11.2	51.0
+50			10.6	51.6
84+00			10.0	52.2
+29.4	M.H. 16' No. & east		10.75	51.47
J.P.	of center of 16th &	54.17		
+50	F streets 2.70		2.6	51.6
85+00			3.6	50.6
+50			5.7	48.5
86+00			8.1	46.1
+50			10.0	42.2
87+00			11.3	42.9
+10	M.H. 16' No. & east		11.40	42.77
J.P.	of center of 15th 1.2	44.04		
+50	& F streets		1.7	42.3
+68			1.6	42.4
88+00			6.0	38.0
+50			7.2	36.8
89+00			5.5	38.5

Sept. 6/10 { Childs, Barton, Taylor

72

Sta.		H.I.	Rod	Elev.
89+50		44.04	6.6	37.4
90+00			6.8	37.2
+50			8.3	35.7
91+00			9.2	34.8
J.P.	1.32	36.57	8.79	35.25
+40			2.6	34.0
+50			4.4	32.2
92+00			6.4	30.2
+50			7.2	29.4
93+00			7.5	29.1
+50			7.7	28.9
94+00			7.6	29.0
+50			6.8	29.8
J.P.	1.95	31.90	6.62	29.95
95+00	H St		1.7	30.2
+50	"		2.4	29.5
96+00			4.2	27.7
+50			5.1	26.8

Cont. from page 72

Sta.		H.I.	Rod	Elev.
97+00		31.90	4.9	27.0
+50			5.6	26.3
98+00			6.1	25.8
+50			6.4	25.5
99+00			6.6	25.3
+50			7.4	24.5
100+00			9.0	22.9
+50			11.0	20.9
101+00			11.2	20.7
J.P.	0.30	21.70	10.50	21.40
+50			1.4	20.3
102+00			0.8	20.9
+50			0.5	21.2
103+00			0.8	20.9
+50			1.5	20.2
104+00			2.1	19.6
+50			2.5	19.2

Sept. 7/10 { Elliott Barter Taylor

Sta.		H.I.	Rod	Elev.
105+00		21.70	3.2	18.5
+50			3.8	17.9
106+00			4.1	17.6
+50			4.2	17.5
107+00			4.4	17.3
+50			4.3	17.4
108+00			4.7	17.0
+50			3.9	17.8
109+00			5.1	16.6
+50			6.2	15.5
110+00			6.8	14.9
+50			7.4	14.3
111+00			9.9	11.8
+50			11.3	10.4
112+00			13.0	8.7
J.P.	2.83	11.51	13.02	8.68
+50			3.6	7.9

Cont. from page 73

Sta.		H.I.	Rod	Elev.
		11.51		
113+00			4.6	6.9
+50			4.1	7.4
114+00			3.4	8.1
+50			4.6	6.9
115+00			6.7	4.8
+50			7.9	3.6
116+00			7.9	3.6
+50			7.7	3.8
117+00			5.7	5.8
+50			5.5	6.0
118+00			4.5	7.0
+23			8.7	2.8
J.P.	5.43	8.39	8.55	2.96
+50			5.0	3.4
119+00			5.0	3.4
+50			4.9	3.5
+66	44°41' R M.H. on pulblo line So. of N. street 16' east of center 915th		4.48	3.9

Sta.		H.I.	Rod	Elev.
		8.39		
120+00			5.2	3.2
+50			4.9	3.5
121+00			5.3	3.1
+37			4.7	3.7
+45			8.1	+0.3
+50			8.3	+0.1
122+00			8.8	−0.4
+50			9.0	−0.6
123+00			9.3	−0.9
+10			8.5	−0.1
+17			4.9	3.5
J.P.	2.61	6.10	4.90	3.49
+30			2.7	3.4
+40			6.8	−0.7
+50			7.2	−1.1
124+00			7.5	−1.4
+30			7.7	−1.6

Cont. from page 74:

Sta.	H.I.	Rod	Elev.
124 +40	6.10	2.8	3.3
+50		3.0	3.1
125+00		4.5	1.6
+06		3.2	2.9
+15		3.4	2.7
+25		7.5	-1.4
+29		5.1	+1.0
+50		5.1	+1.0
126+00		5.4	0.7
+50		5.4	0.7
127+00		8.6	-2.5
+50		9.6	-3.5
128+00		10.5	-4.4
+50		10.8	-4.7
129+00		10.9	-4.8
+50		11.0	-4.9

Sept. 7/10 — Childs, Barber, Taylor

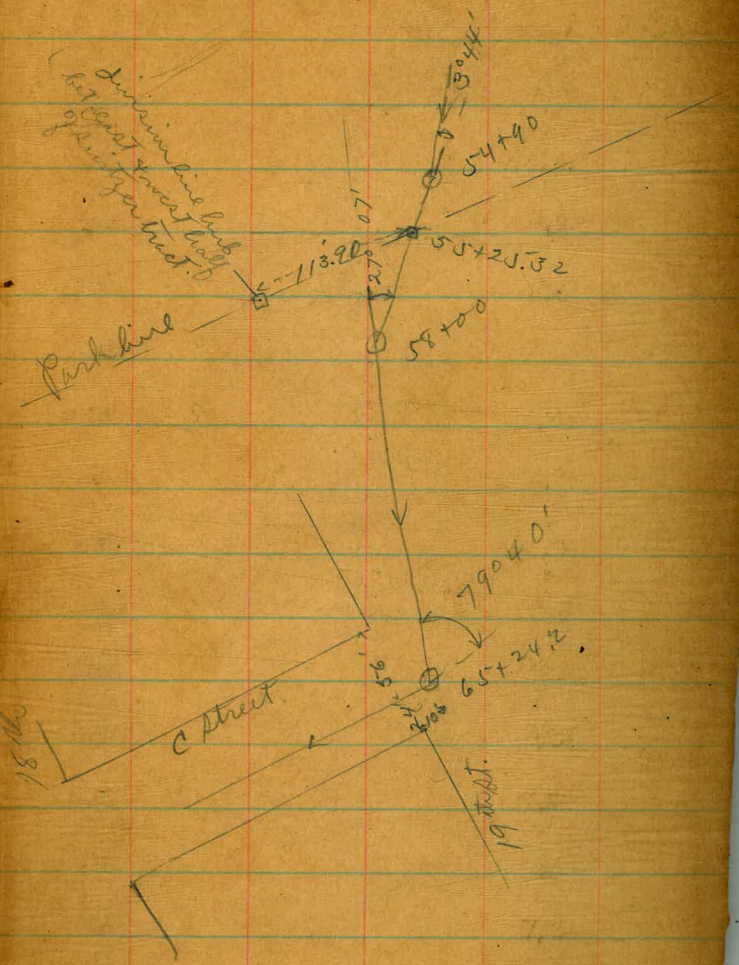
Sta.	H.I.	Rod	Elev
130+00	6.10	11.2	-5.1
+50		11.2	-5.1
+72		10.8	-4.7
+84		5.0	+1.1
131+00		4.4	+1.7
+05 hub.		4.94	+1.16
+15		9.8	-3.7
+25		11.5	-5.4
water level		12.0	-5.9

at 2:20 P.M. Sept. 7, 1910.

T.P.	2.47	3.63	
131+50		9.2	-5.6
132+00		9.2	-5.6
+50		9.6	-6.0
133+00		9.2	-5.6
+50		9.3	-5.7
134+00		9.6	-6.0

Sta.		H.I. 3.63	Rod	Elev.
134+46			7.7	-4.1
+50			5.2	-1.6
+53			2.7	+0.9
+60			1.7	+1.9
+70			3.3	+0.3
+76			8.2	-4.6
135+00			10.3	-6.7
T.P.	4.75	-1.05	9.43	-5.80
+50			6.0	-7.0
136+00			5.8	-6.8
+50			6.2	-7.2
137+00			6.4	-7.4
+50			6.6	-7.6
138+00			6.7	-7.7
+50			7.0	-8.0
139+00			7.5	-8.5
+50			7.6	-8.6

see page 77



Cont. from page 7.6

Sta.	H.I.	Rod	Elev.
	-1.05		
140+00		8.1	-9.1
+50		8.3	9.3
141+00		8.3	9.4
+50 water level at		8.6	-9.6
142+00 3:15 P.M. Oct. 19, 19		9.0	-10.0
+50		9.2	-10.2
143+00		9.4	-10.4
+50		9.8	10.8
144+00		10.5	-11.5

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees
	DEGREES		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		