

510

510

F.B. 510

IND

LEVEL



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	21 $\frac{1}{2}$	21	49	41	95 $\frac{1}{2}$
2	4 $\frac{1}{2}$	22	50	42	98
3	7	23	51	43	100 $\frac{1}{2}$
4	9 $\frac{1}{2}$	24	52	44	102 $\frac{1}{2}$
5	11 $\frac{1}{2}$	25	53	45	105
6	14	26	54	46	107 $\frac{1}{2}$
7	16 $\frac{1}{2}$	27	55	47	109 $\frac{1}{2}$
8	18 $\frac{1}{2}$	28	56	48	112
9	21	29	57	49	114 $\frac{1}{2}$
10	23 $\frac{1}{2}$	30	58	50	116 $\frac{1}{2}$
11	25 $\frac{1}{2}$	31	59	51	119
12	28	32	60	52	121 $\frac{1}{2}$
13	30 $\frac{1}{2}$	33	61	53	123 $\frac{1}{2}$
14	32 $\frac{1}{2}$	34	62	54	126
15	35	35	63	55	128 $\frac{1}{2}$
16	37 $\frac{1}{2}$	36	64	56	130 $\frac{1}{2}$
17	39 $\frac{1}{2}$	37	65	57	133
18	42	38	66	58	135 $\frac{1}{2}$
19	44 $\frac{1}{2}$	39	67	59	137 $\frac{1}{2}$
20	46 $\frac{1}{2}$	40	68	60	140

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
0		0		0		0	
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

Crocker Quality

LEVEL BOOK

No. 400



MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO  
and  
SACRAMENTO



Published  
Material

Table showing  
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 follow  
numb  
chain.

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

myrtle  
cuppa  
seringa  
Lands  
Linn  
Wrightman

Kansas  
Sherman  
Utah



33676  
1.89  
338.65 H.I.  
4.93  
333.72 J.P.\*

No. 9 University ave  
& East of City park

2  
65  
4  
3  
9  
6  
4  
1  
6  
2  
2  
9  
8  
2  
0  
6  
5



With street line from Center  
University ave.

Sta.	H.I.	Rod	Elev.
T.P.	6.34 340.06		333.72
0+00	center of r.p.s.	9.60	336.46
+50		9.0	331.1
1+00		8.0	332.1
+50		8.1	334.0
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

of r.p.s. to

May 20/10

Sketches  
Barber  
Taylor

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
+66.6		2.5	340.5

13' 20" center of  
Lands



Cont. from page 1

Sta.	H.I.	Rod	Elev.
15+50	<u>343.00</u>	3.5	339.5
16+00		2.9	340.1
+50		2.1	340.9
J.P.	9.02	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	343.9
+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

②

2

Sta.	H.I.	Rod	Elev.
23+50	<u>351.02</u>	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	J.S. 73.7 so 9' 13" point on min. ave	2.27	348.7

3 2 2 2  
6 6 9



Sherman Street from Center  
University ave

Sta.	H.I.	Rod Elev.
J.P. 0+00 Mt. Center upas,	229 336.01	333.72 331.72
+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  
10-1

upas to

3  
3

Sta.	H.I.	Rod Elev.
8+00	336.01	3.4 332.6
+50		2.1 333.9
J.P. 9+00	10.29 344.29	2.04 334.00
		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' sq. center of lands		4.5 339.8



Cont. from page 3

May 20/10

Calhoun  
Barber  
Taylor

4

Sta.	H.I.	Rod	Elev.	Sta.	H.I.	Rod	Elev.
15+50	344.29	3.9	340.4	23+50	350.59	3.2	347.4
16+00		4.0	340.3	24+00		2.2	348.4
+50		4.0	340.3	+50		2.9	347.7
J.P.	8.51 350.59	2.2	342.08				
17+00		9.4	341.2	25+00		1.5	349.1
+50		9.1	341.5	+50		1.7	348.9
18+00		8.7	341.9	J.P.	3.80 353.99	0.90	349.69
+50		7.9	342.7	+9.5	5.5 74.5 20.0	1.95	352.0
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				

13' print on  
mill. art.



Kansas street from center of  
University ave,

Sta.	H.I.	Rod Elev.
J.P.	1.61	338.37
0+00		325.19
+50		325.9
1+00		326.0
+50		327.0
2+00		326.6
+50		327.1
3+00		329.8
+50		330.6
4+00		330.7
+50		331.3
5+00		331.4
+50		331.7
6+00		332.5
+50		333.5
7+00		333.4
+50		332.9

Profile plotted  
10-1

upus to

Sta.	H.I.	Rod Elev.
8+00	338.37	333.8
+50		333.5
9+00		334.8
+50		334.7
10+00		335.3
+50		335.9
J.P.	10.32	346.27
11+00		337.0
+50		337.7
12+00		338.5
+50		338.9
13+00		339.3
+50		340.4
14+00		340.4
+50		340.5
15+00		340.6
+065 13' ea. center of Furber's		340.9

May 21/10

Calhoun  
Barber  
Taylor 5



Cont. from page 5

Sta.	H.I.	Rod	Elev.	Sta.	H.I.	Rod	Elev.
15+50	<u>346.27</u>	4.5	341.8	23+50	<u>353.49</u>	4.2	349.3
16+00		4.1	342.2	24+00		4.4	349.1
+50		4.4	341.9	+50		3.6	349.9
17+00		3.9	342.4	25+00		1.9	351.6
+50		3.9	342.4	J.P.	5.55	<u>357.73</u>	1.31 352.18
18+00		3.6	342.7	+50		4.5	353.2
+50		1.6	344.7	+95	H.S. - 76.0 so. of 13' point on wind. ave.		3.53 354.2
J.P.	9.20	<u>353.49</u>	1.98	344.29			
19+00		9.3	344.2				3 revs
+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				



30<sup>th</sup> 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. F.

Upas to

May 21/10

Lehilds  
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
5.8	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
+0.5	13' from center of Lands	5.3	339.3



Cont. from Page 7

Sta.	H.I.	Rod	Elev.
	<u>344.65</u>		
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
J.R.	12.51	<u>356.58</u>	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

Heildts  
Barber 8  
Taylor

Sta.	H.I.	Rod	Elev.
	<u>356.58</u>		
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.S. 76.8	2.10	354.5
	13' point on University ave		



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

Sta.	H.I.	Rod	Elev.
	3.55 340.31		336.76
0+00	M.H. center of us.	13.57	336.7
+50		12.1	336.2
1+00		10.5	337.8
+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 plotted  
10-2  
% grade.

addition from may 23/10

Childs  
Barber  
Tangler

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
J.P.	12.73	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

St. Louis  
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		3.14	352.9

F.S. near summit  
cont.



alley line bet. 29<sup>th</sup> & Granada from  
to center of Thom.

25<sup>th</sup> so. of upas.

574.55  
30

11

Sta	H.I.	Rod Elev.
0+00 F.I. 25 <sup>th</sup> 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 Orig. center of Thom.	10.83	325.25

Profile plotted  
O. W.



Refers street from center of Utah  
street going south in Ray Street.

Sta.	H.I.	Rod Elev	Elev
J.P. 0+00	336.08	56.2	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 4/17	329.29	10.90 325.18
6+00		4.4	324.9
+50		4.9	324.4

Profile plates  
C-2

to 16' East of center of 30<sup>th</sup> } Leilids  
Barber  
May 24/10 } Taylor

Sta.	H.I.	Rod Elev	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 30 <sup>th</sup> 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
+50			
+95.75	M.H. in Ray St, 16' east center of 30 <sup>th</sup> going north	2.55	326.74



alley line bet. Thom + Spruce  
Dale to Granada.

Sta.	H.I.	Rod	Elev.
0+00	<u>311.25</u>	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	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	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

from center of

May 25/10

Blidds  
Barber  
Tayler  
13

Sta.	H.I.	Rod	Elev.
6+00	<u>330.12</u>	6.5	323.6
+10		6.60	323.5

Int. 19.95 from  
Granada



alleyline bet. Spruce & Redwood  
dale to near Granada,

from center of

May 25/10

Blair  
Barber  
Taylor

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. 13



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	M.H. center of Thon	0°48' L	7.79 318.16

Profile sheets  
C-3

No level in upas to alley bet Thon & spruce

upas to center

May 25/10  
Leiland  
Barker  
July 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°35' R	8.82 311.25	10.98 302.43
+22.1	M.H. center of alley bet Thon & 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		6.9 315.8
+60.5	M.H. center of alley bet. spruce & Redwood		6.95 315.75



Thom Street from center of  
center of alley bet. 29<sup>th</sup> &

Sta.		H.I.	Rod	Elev.
0+00	M.H. center of Dale	<u>329.07</u>	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	320.3
3+00			8.2	320.9
+50			7.5	321.6
+57			6.9	322.2
+60			4.6	322.5
4+00			4.0	325.1
+50			3.9	325.2
+98.3	M.H. center alley bet. 29 <sup>th</sup> & Granada		3.77	325.3

Profile plotted  
10-5.

Dale to  
Granada.

May 25/10  
Childs  
Barber  
184



alley line bet. 30th + 100th from  
to Sta 5750 just north of

Sta.	J.P.	H.I.	Rod	Elev.
0+00	J.P.	4.52	322.68	318.16
+15			1.11	321.6
+50			3.1	319.6
+75			3.3	319.4
1+00			4.2	318.5
+50			5.4	317.3
2+00			8.6	314.1
+12			10.0	312.7
+40			15.2	309.5
+50	J.P.	0.21	310.81	310.10
+80			6.1	309.2
+90			10.5	309.8
3+00	J.P.	4.62	302.07	297.45
+32			15.5	286.6
+40	J.P.	10.86	300.07	289.21
+50			12.63	287.44
+62			11.9	288.2
+70	J.P.	11.56	311.41	299.85
+80			7.4	304.0
+23			0.8	310.6

25' Ro. of Thine  
Redwood.

May 26/10  
L. Childs  
Barber  
Taylor

Sta.	J.P.	H.I.	Rod	Elev.
4+50	J.P.	8.30	319.21	310.91
5+00			6.4	312.8
			4.7	314.5
+10			4.57	314.64
81.5				

J.P. about 257  
to Redwood.  
sheet

310

300

282

Profile started  
10-3



787.885  
25795

rutab

15706.6

745.253  
25795

Stentor

Wightman

Gunn

15706.5

Laudis

Swight

misc. arb

760.885  
25795

Harves

15706.5

765.885  
25795

Bo. W.

15705.5

18

25795



18 1/2  
 May 26/10  
 Childs  
 Barber  
 Taylor

straight

Capps

mistle

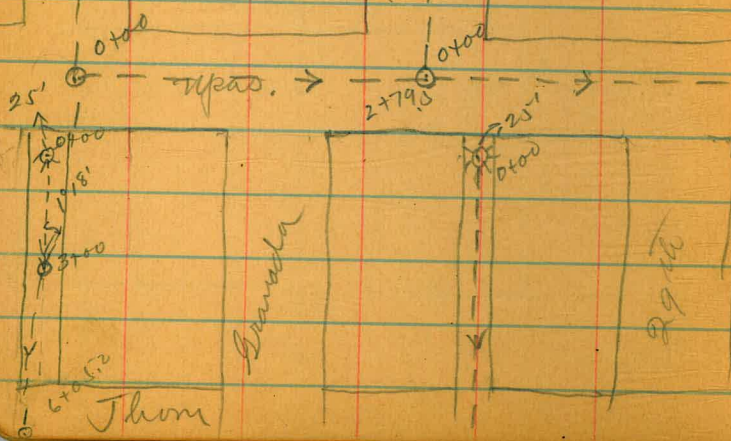
rotah

Shaman

Woods

Banada

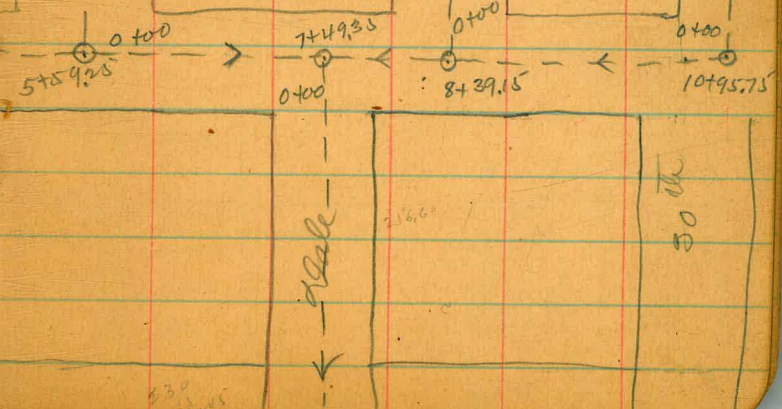
Thom



Kansas

50th

Ray



Alake

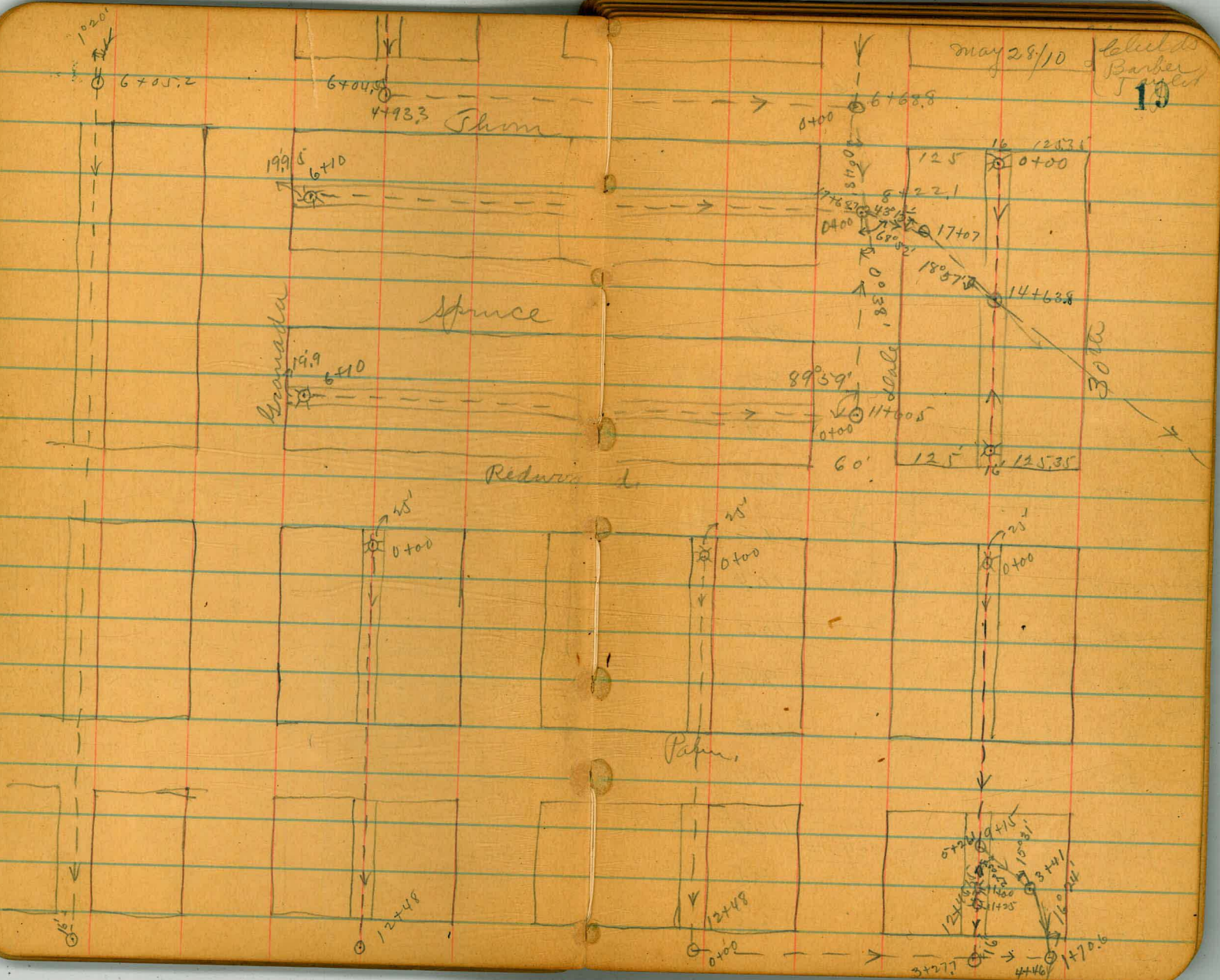
50th



May 28/10

Collected  
Barber  
J. Taylor

19





alley line bet. Granada & 28<sup>th</sup>  
 25' so. of upas to 16' so. of north

Sta.	H.I.	Rod	Elev.
J.P.	330		330.46
0+00		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		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
+0.52		10.76	323.00
J.P.			
+50		2.4	321.6
6+90		6.2	317.8

3.30  
 H.I. 333.76  
 25' so. of upas.

1° 18' R  
 74.6' angle

Profile plotted  
 P. 4

M.H. center of  
 Thorne & alley  
 40 ft  
 324.04  
 40 ft  
 40 ft

Street from  
 line of Monterey

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.	315.0	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		4.9	315.2
13+00		5.1	315.0
+50		5.6	314.5
14+00		5.3	314.8

may 28/10  
 16 hills  
 Barber  
 July 20

12+91.6 Adeline Redwood  
 about 6' deep.



Cont. from page 20.

Sta.		H.I.	Rod	Elev.
14+50		<u>320.09</u>	5.9	314.2
15+00	not less than 5'		7.0	313.1
+50	deep		8.7	311.4
16+00			10.1	310.0
+50			12.2	307.9
J.P.	1.84	<u>309.15</u>	12.78	307.31
17+00			2.8	306.3
+50			4.7	304.4
+9.0	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	middle 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 { Childs  
Barber  
Taye 21

Sta.		H.I.	Rod	Elev.
20+50		<u>309.15</u>	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' to ground line of nutmeg		13.20	295.95



alleyline bet. 29<sup>th</sup> + Granada  
Redwood to 16' so. of north line

Sta.		H.I.	Rod	Elev.
J.P.	1.26	321.18		319.92
0+00	PT. 25' so. of Redwood l.		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 plotted  
C. S.

from 25' so. of  
of nutmeg.

June 4/10

Childs  
Barber  
522

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



alloy line bet. 29th + Hale from  
to 16' 20" of No. line of Nutmeg.

Sta.	H.I.	Rod	Clav.
J.P.	321.46		315.75
0+00	about 6' 5.71 deep F.S. 25' 20" of Redwood	4.29	317.2
+50		4.1	317.4
1+00		4.2	317.2
+50		4.3	317.7
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 placed  
Sheet 8-14

2490' grade

25' 20" of Redwood

July 9/10

J. Childs  
Barber  
Taylor 23

Sta	H.I.	Rod	Clav.
J.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
J.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
J.P.	10.71 300.73	12.78	290.02
+48	H. 16' 20" of No. line of Nutmeg	11.62	289.11



alley line bet. 30<sup>th</sup> & Dale, from  
to 16' so. of north line of Nutmeg

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
J.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

Pole placed  
at 12.14

25' so. of Redwood

July 21/10

Childs  
Barber  
July 24

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
J.P.	0.84	296.35	12.93	295.51
8+00			12.9	283.4
J.P.	0.61	283.98	12.98	283.37
+25			6.4	277.6
J.P.	0.06	277.22	12.82	277.16
+50			0.7	270.5
J.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	244.4
+50			9.8	249.0
10+00			3.2	255.6
J.P.	12.68	268.69	2.77	256.01
+50			6.8	261.9
J.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.T.	Rod Elev.
11+50	274.20	
J.P.	0.46	10.1 264.1
12+00	261.91	12.75 261.45
J.P.	0.38	6.4 255.5
+45.15	about 12.5 dep. m.H. 16 Rod. of 70. line of nutmeg	12.75 249.16
		3.83 245.7

Drop m.H.

July 21/10

(Builds  
Barber  
Page 25

280.75



Nutmeg Street 16' so. of north line  
29<sup>th</sup> hole to bottom of canyon near

from center alley bet.  
30<sup>th</sup>.

July 21/10  
Blields  
Barb  
Jay 26

Sta.		H.T.	Rod Elev.	
0+00	M.H. center alley bet. 29 <sup>th</sup> & 30 <sup>th</sup>	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. hole +30 <sup>th</sup>		3.83	245.71
+50			6.0	243.5
+90			13.8	235.9
J.P.	0.84	237.37	13.01	236.53
4+00			4.2	238.7
+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

249.16  
13.20  
262.16 H.T.  
0.20  
261.96 J.P.  
12.49  
274.53 H.T.  
0.11  
274.42 J.P.  
10.80  
285.24 H.T.  
1.42  
283.82 J.P.  
8.83  
292.65

Triple placed.  
Sheet C-14



alley line bet. 30th & Union from  
Redwood to Sta. 26+32 no. of Dwight

Sta.	H.I.	Rod	Elev.
J.P.	0.13	290.44	12.53
J.P.	1.06	279.31	12.19
0+00		3.56	270.75
J.P.		12.82	303.03
+50		12.5	290.6
J.P.			
+73		1.1	302.0
	1.85	315.85	314.00
+98		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
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' no. of no. line of

July 22/10

Blights  
Barb<sup>99</sup>  
Taylor

Sta.	H.I.	Rod	Elev.
7+00	326.42	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
+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		3.9	329.1
14+00		3.7	329.3

40' no. of no. line  
of upas.



cont. from page 27

sta.	H.I.	Rod Elev.	sta.
14+50	<u>332.99</u>	2.8 330.2	22+00
15+00		3.4 329.6	J.P. +50
+50		4.0 329.0	23+00
J.P. 16+00	2.20 <u>332.01</u>	3.18 329.81	+50
+50		3.6 328.4	24+00
17+00		4.0 328.0	+50
+16.8 Center of gully		5.0 327.0	25+00
+50		5.1 326.9	+50
18+00	0.4 % grade,	5.1 326.9	26+00
+50		5.7 326.3	+32
19+00		5.1 326.9	F.T. near Hartley
+50	about 3' deep	6.4 325.6	add. north of bridge
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

Lehman  
Barber  
Taylor

(27 1/2)

sta.	H.I.	Rod Elev.	sta.
	<u>332.01</u>	1.7 331.3	
	10.25 <u>341.26</u>	1.00 331.01	
		9.5 331.8	
		8.3 333.0	
		7.8 333.5	
		6.6 334.7	
		5.6 335.7	
		4.2 337.1	
		4.8 336.5	
		4.5 336.8	
		4.1 337.2	

Plotted

4.57  
336.71



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

Sta.	H.I.	Rod Elev.
0+00	4.83 about 11' deep N.H. Center of Redwood	319.53 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
6+00		5.43 314.10
+15		12.2 303.0
+45		14.2 301.0
+50		12.5 302.7
		9.6 305.6

Profile started  
 about 2.5  
 0.4% grade  
 Myrtle

center of  
 July 26/10  
 Childs  
 Barber  
 23

Sta.	H.I.	Rod Elev.
6+60	315.22	6.0 309.2
+73		5.8 309.4
+78		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
+50		0.16 315.06
		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
12+00		1.11 322.53
		10.7 323.4
+50		9.8 324.3



Cont. from page 28

Sta	H.I.	Rod Elev.
13+00	<u>334.14</u>	8.5 325.6
+18.8	0° 34' R m.H. 30' north of south line of rpass.	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 mystle + alley	3.16 331.0

July 26/16  
Lelields  
Carter  
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

Purple Plaster  
 Sheet C-6

line north of Dwight

July 15/10

Calculus  
Barber  
Page 99

Sta.		H.I.	Rod Elev.
		327.04	1.4 325.6
8+00			1.0 326.0
+50	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° 31' R M.H. 30' north of S. line of right		4.94 325.24
+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

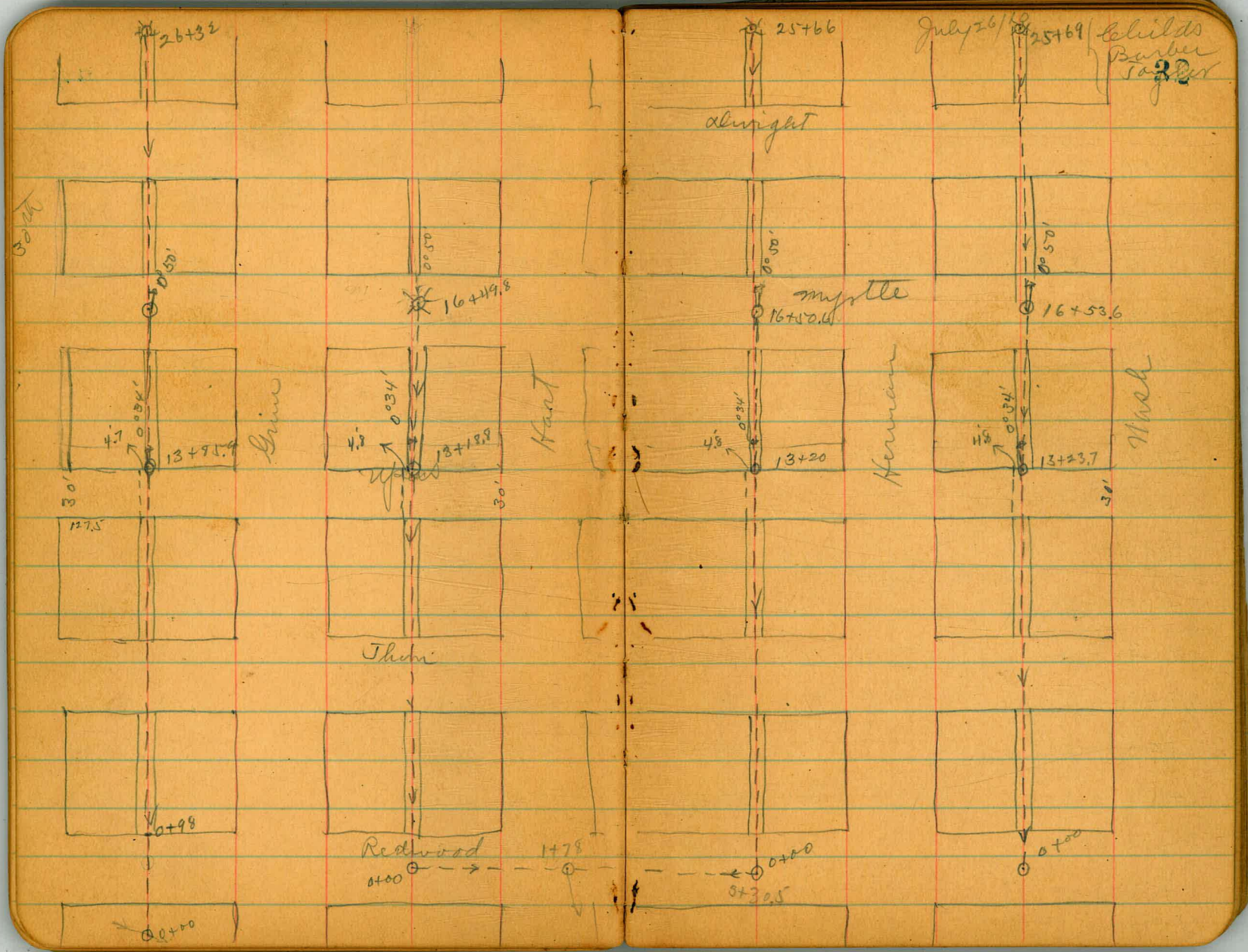
Sta.		H.I.	Rod	Elev.
15+50	0.4% grade	330.15	5.6	324.5
16+00	about 2' deep,		7.9	322.2
	1° 10' L about 4.9 deep.			
+50.6	M.H. Center of		4.86	325.29
J.P.	myself 2.60	337.89		
17+00			11.4	326.5
+50			10.8	327.1
18+00			10.2	327.7
+50			9.5	328.4
19+00			9.0	328.9
+50			8.0	329.9
20+00			7.5	330.4
+50			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	333.5

July 26/10

Blinds  
Barber  
Taylor

Sta	H.I.	Rod	Elev.
23+50	337.89	4.2	333.7
24+00		3.5	333.4
+50		2.7	335.2
25+00		1.8	336.1
+50		0.9	337.0
+66		0.9	337.0
	F.S. near pueblo line north of wright		







alley line bet. Herman & Nash  
Redwood to public line north

Sta.	H.I.	Rod	Elev.
0+00	about 10' deep M.H. Center of Redwood	278.68	11.13 267.55
+50			10.9 269.8
1+00			7.7 271.0
+50			5.5 273.2
2+00			4.1 274.6
+50	298.95		5.8 283.1
+64	300.78		12.9 287.9
3+00			10.7 290.1
+30			4.6 296.5
J.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
J.P.	10.56	320.15	0.32 309.59
+50			9.8 310.3

Public line  
Sheet 2

from center of  
of Abinglet

July 29/10

Childs  
Barber  
Page 33

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			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			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

0.4% grade

0.10% grade



Cont. from page 33

Sta.	H.I.	Rod	Elev.
J.P. 11+50	12.83	<u>329.17</u>	381 316.34
12+00			10.8 318.4
+50			8.8 320.4
13+00			7.2 322.0
+50			5.8 323.4
13+37 m.H. 30' no. of line line of mps			5.15 326.0
+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
J.P. +50	11.43	<u>339.71</u>	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

Chilts  
Barber  
Tajer

Sta.	H.I.	Rod	Elev.
18+50	339.71	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 Ft. 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. Grinn & 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	284.0
J.P.	4.50	280.89	12.86	276.39
+78	mid. 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	280.71
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. Grinn &  
& Herman

July 30/10

Lehills  
Barber  
Sage

Grinn Street



alley line bet. 30<sup>th</sup> & 31<sup>st</sup> from  
north line of Redwood to bottom of

Sta.	H.I.	Rod Elev.	
0+00	0° 32' R M.H. 98' E. of me line Redwood on center alley on north	283.53	12.78 270.75
+21			15.2 268.3
+26			17.0 266.5
+50			10.8 272.7
J.P.	12.82	296.05	0.30 283.23
+700			6.8 289.2
J.P.	12.45	308.18	0.32 295.73
+45			2.8 305.9
+50			1.6 306.6
J.P.	4.98	312.16	1.00 307.18
2+00			4.0 308.2
+50			3.4 308.8
+60.7	0° 32' L M.H. Center of Quince Valley		3.3 308.81
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 Palmer		4.10 308.06

98' E. of  
Canyon S.E. of Nutmeg,

Aug 1/10  
Builds  
Bamber  
Taper  
35

Sta.	H.I.	Rod Elev.	
6+40	F.S. South of Palmer	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
J.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
J.P.	0.32	286.81	13.05 286.49
+50			5.2 281.6
+92			10.7 276.1
J.P.	0.20	274.35	12.66 274.15
11+00			1.6 272.7
J.P.	0.13	261.70	12.78 261.57
+50			2.1 259.6

Middle plateau of  
 slope of



Cuts from page 36

Sta		H.I.	Red	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	236.53	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			11.96	210.18

M.H. bottom of  
main camp  
Rowy Mithrey

aug 1/10

Shields  
Barber  
Taylor 37



alley line bet. Redwood & Dimer  
 alley bet. 30<sup>th</sup> & 31<sup>st</sup> to 32<sup>nd</sup>

Sta.		H.I.	Rod	Elev.
		6.11	<u>276.86</u>	270.75
0+00	M.H. bottom of canyon 112' East		12.83	264.03
+50	of alley bet. 30 <sup>th</sup> J.P. 3+31 <sup>st</sup> 12.35	<u>287.55</u>	11.7	265.7
1+00	J.P.	12.79	300.00	287.21
+10			10.9	289.1
+50			5.6	294.4
2+00	J.P.	4.59	<u>304.09</u>	299.50
+50			2.7	301.4
3+00			1.6	302.5
+25	J.S. 22 <sup>5</sup> west of 31 <sup>st</sup>		1.51	302.6
J.P.	0.46	<u>292.03</u>	12.52	291.57
4+35	J.S. 22 <sup>5</sup> east of 31 <sup>st</sup> 0.07	<u>279.21</u>	9.3	282.7
+50	J.P.	6.86	12.89	279.14
+85			4.4	274.8
			12.69	266.52
5+00			13.1	260.3
+05	M.H. bottom of canyon		14.0	259.4
+07			12.64	260.74

from 122' East of angle 10  
 Shields Barber  
 July 30

Sta		H.I.	Rod	Elev.
J.P.		12.52	<u>285.79</u>	273.27
5+50			11.1	274.7
J.P.		9.53	<u>295.26</u>	285.73
6+00			8.6	286.7
+50			3.6	291.7
7+00			2.7	292.6
+50	J.S. west.		2.7	292.6
+75	J.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
J.P.	0.08	<u>282.31</u>	13.03	282.23
+50			8.3	274.0
J.P.	0.29	<u>270.09</u>	12.87	269.80
+70			6.9	263.2
9+00			13.6	256.5
+06			14.4	255.7



cont. from page 38

Sta.

H.T. Rod Elev.

9+08

270.09 15.5 254.6

+32 m.H. bottom of

13.38 256.71

+38 Canyon

14.1 256.0

+50

9.0 261.1

J.P.

12.23

282.21

0.11 269.98

+90 F.S. about 18.5

0.52 281.7

from 32nd.

aug 3/10 } hills  
Bigger  
Taylor



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

Sta.		H.T.	Rod	Elev.
		3.12	311.93	308.81
0+00	P.S. 25' East of alley bet. 30th		4.87	307.1
+50	+31st		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	n.H. bottom of canyon		10.35	243.94
J.P.		11.37	265.50	0.16 254.13
5+25	P.S. east about 27.6 east of 31st.	7.28	272.70	0.03 265.47
+34			4.95	267.8
			3.8	268.9

from 25' East of alley

Aug 3/10

Childs  
Barber  
J.P.

Sta		H.T.	Rod	Elev.
				272.70
5+40			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	n.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	268.9
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

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	about F.S. 28'2" from 32nd.	3.73 300.85

Aug 3/10 | Childs  
Barber  
Page 41



alley line bet. Alvin & Palen from  
#31st to near pueblo line east

Sta.	H.I.	Rod	Elev.
J.P.	0.53 308.59		308.06
0+00	F.I. 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
J.P.	0.85 296.52	12.92	295.67
+50		2.0	294.5
3+00		8.7	287.8
J.P.	0.31 283.82	13.01	283.51
+50		4.0	279.8
+70		8.5	275.3
+77		12.8	271.0
J.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

Pueblo line

25' east of alley bet. 30th  
& 31st Aug 8/10

Alvillo  
Barb  
Jay 42

Sta	H.I.	Rod	Elev.
J.P.	0.47 259.24	12.86	258.77
4+50		11.9	247.3
J.P.	0.28 246.72	12.80	246.44
+80		7.0	239.7
5+00		9.2	237.5
J.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
J.P.	12.83 258.24	0.95	245.41
+50		10.4	247.8
J.P.	11.91 270.04	0.11	258.13
J.P.	12.51 282.19	0.36	269.68
7+00		10.5	271.7
J.P.	12.94 295.03	0.10	282.09
+42		2.9	292.1
+50		2.0	293.0
+70	F.I. about 22.6 from pueblo line east of 31st	0.12	294.9



alley line bet. Olive & nutmeg from  
30th & 31st <sup>near</sup> to 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	12.89	252.26
+35	0.53	6.9	245.9
+50		8.0	244.8
+67		7.7	245.1
J.P.	0.69	240.54	12.94
+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
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	-9.92	219.17
3+00	Campfire	7.0	222.1

Profile plotted  
 Sheet C

25' east of alley bet.

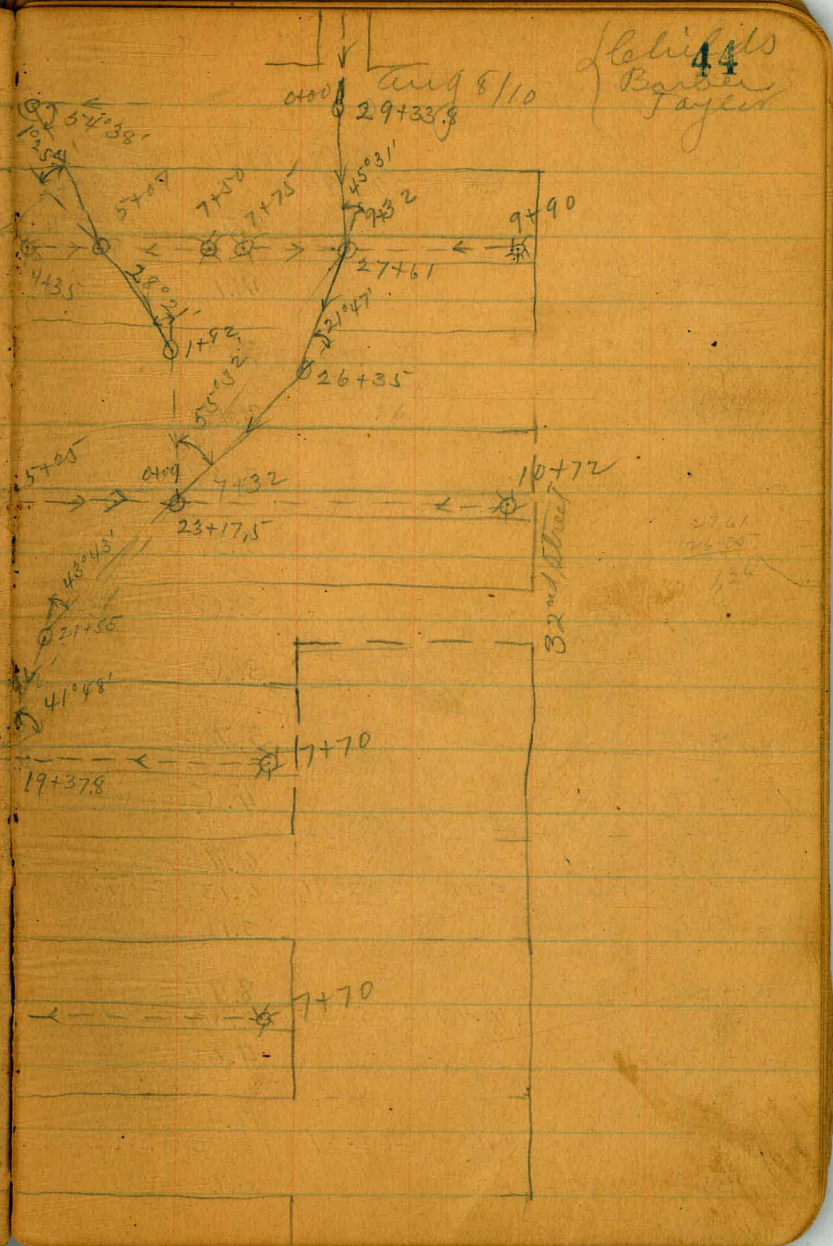
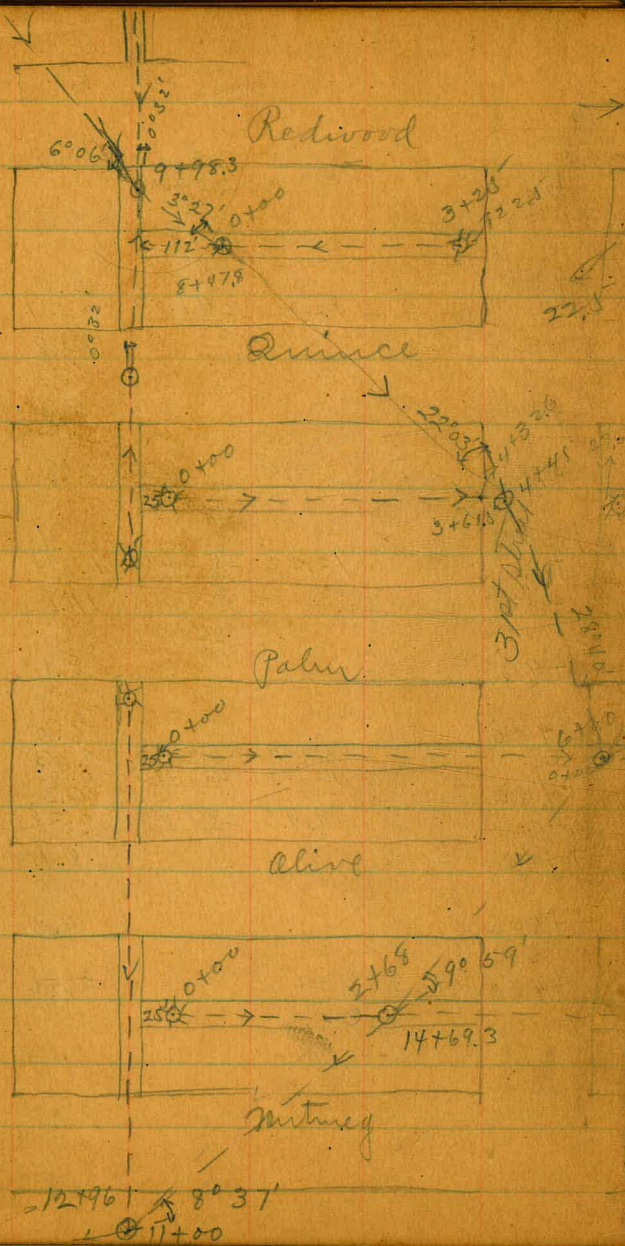
Aug 6/10

Childs  
Barber  
July 43

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
+50		10.8	220.8
+71		5.3	226.3
+96.7	East line 31st	2.8	238.8
5+00		2.4	239.2
J.P.	12.22	252.66	1.14
+50		11.1	241.6
+90		8.1	244.6
6+00		6.0	246.7
J.P.	13.03	265.36	0.33
J.P.	12.89	277.95	0.30
+50		6.3	271.6
J.P.	9.93	287.60	0.28
7+00		8.1	279.5
+50		4.3	283.3
+70	F.S. about 21'	2.56	285.0
	from pueblo line		
	East of 31st		



GRIM





Alley line bet. juniper & Kalina  
from 25' west of 30<sup>th</sup> to bottom of canyon

Sta.	H.I.	Rod	Elev.
J.P.	8.21	293.94	285.73
0 + 00 F.I. 25' west of 30 <sup>th</sup> 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	289.5
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

262.51  
 262.33

184' north of juniper  
in city park Aug 9/10

Lehigh  
Barber  
45 feet

Sta.	H.I.	Rod	Elev.
8 + 00	262.51	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		10.28	163.78

with bottom of  
canyon in city  
park.



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

Sta.	J.P.	H.I.	Rod elev.
	9.05	296.86	287.81
0+00	F.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			5.5 291.4
+50			7.1 289.8
6+00			9.7 287.2
+50			13.2 283.7
7+00			13.03 283.83
J.P.	0.00	283.83	3.7 280.1
+50			

Profile plates  
 sheet C-10

from 25' west  
 park line

aug 10/10

Childs  
 Barber  
 Page 46

Sta	J.P.	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			9.5 217.6
J.P.	0.25	209.44	12.93 209.19
11+00			0.29 197.14 12.59 196.85
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			4.91 171.41

24th. Bottoming  
 Canyon near  
 City Park.



Sawrel street from 740' west  
city park.

Sta.		H.I.	Rod	Elev.
J.P.	9.55	<u>256.94</u>		247.39
0+00	F.I. 740' west		3.91	253.0
+41	of 30th street		16.6	240.3
+50			14.4	242.5
J.P.	0.07	<u>244.14</u>	12.87	244.07
+91			5.7	238.4
1+00			8.4	235.7
J.P.	0.43	<u>231.91</u>	12.66	231.48
+50			9.4	222.5
J.P.	0.55	<u>220.16</u>	12.30	219.61
2+00			9.1	211.1
J.P.	0.33	<u>208.01</u>	12.48	207.68
+30			2.4	205.6
+50			9.9	198.1
J.P.	0.26	<u>195.51</u>	12.76	195.25
3+00			13.4	182.1
J.P.	5.53	<u>188.64</u>	12.40	183.11
+50			12.4	176.2
+65	with 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

Habitat  
Barber  
Jan 10

Sta		H.I.	Rod	Elev.
		<u>188.64</u>		
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	<u>196.66</u>	2.70	185.94
5+00	F.I. near city park.		8.52	188.14

Profile shaded  
 reflect C-9



alley line bet. Laurel & maple  
to near city park.

Sta.	H.I.	Rod	Elev.
J.P.	10.68	291.43	
0+00		0.77	290.75
		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. + 674 nails	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 8-10

from 25' west of 30th  
aug 11/10

Lehlands  
Barber  
Tajer

Sta	H.I.	Rod	Elev.
B.M.	195.02		
7+00		7.2	187.8
+25		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		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

M.H. bottom of  
canyon

M.H. bottom of  
canyon



Cort. from page 48

Sta		H.I.	Rod	Elev.
J.P.	12.19	<u>215.30</u>	2.81	203.11
11+30			7.2	208.1
+50			5.1	210.2
J.P.	12.05	<u>224.83</u>	2.52	212.78
12+00			6.8	218.0
+50	F.I. near Citypark.		3.69	221.1

aug 11/10

Colville  
Barth  
Tayl  
49



Maple Street from 30' west  
near city park.

Sta.	H.I.	Rod	Elec.
J.P.	9.95	231.99	222.04
0+00	J.P. 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	214.7
J.P.	0.14	209.29	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	196.31
+50		10.2	193.2
5+00		12.1	191.3
+10	M.H. bottom of Canyon	12.55	190.86
+25		14.1	189.3

Maple Street  
 30' west of  
 30th Street

of 30th to

Aug 12/10 } bluffs  
Bar  
Tay 50

Sta.	H.I.	Rod	Elec.
5+30	203.41	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.O. east	0.9	216.6
7+53	M.H. bottom of Canyon	11.59	205.90
J.P.	9.91	218.10	9.30 208.19
9+34	M.H. bottom of Canyon	8.66	209.44
+50		1.8	216.9
J.P.	12.98	230.93	0.15 217.95
+83	12.28	242.98	0.23 230.70
		10.1	237.9
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.T.	Road	Elev.
12400	267.15	7.1	260.0
450	<del>7.1</del>	7.4	259.7

→ F.S. near city park,

Aug 12/10

Helds  
Baker  
Target



alley line bet. maple & nutmeg  
30<sup>th</sup> to near city park

Sta	H.I.	Rod Elev.	Elev.
J.P.	9.02	218.17	209.15
0+00	M.H. 20' west of 30 <sup>th</sup> 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
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
4+00		11.2	230.8
+50		1.6	240.4
J.P.	13.04	254.80	0.27
5+00		0.4	254.4
J.P.	12.95	267.56	0.19
+33		8.1	259.5

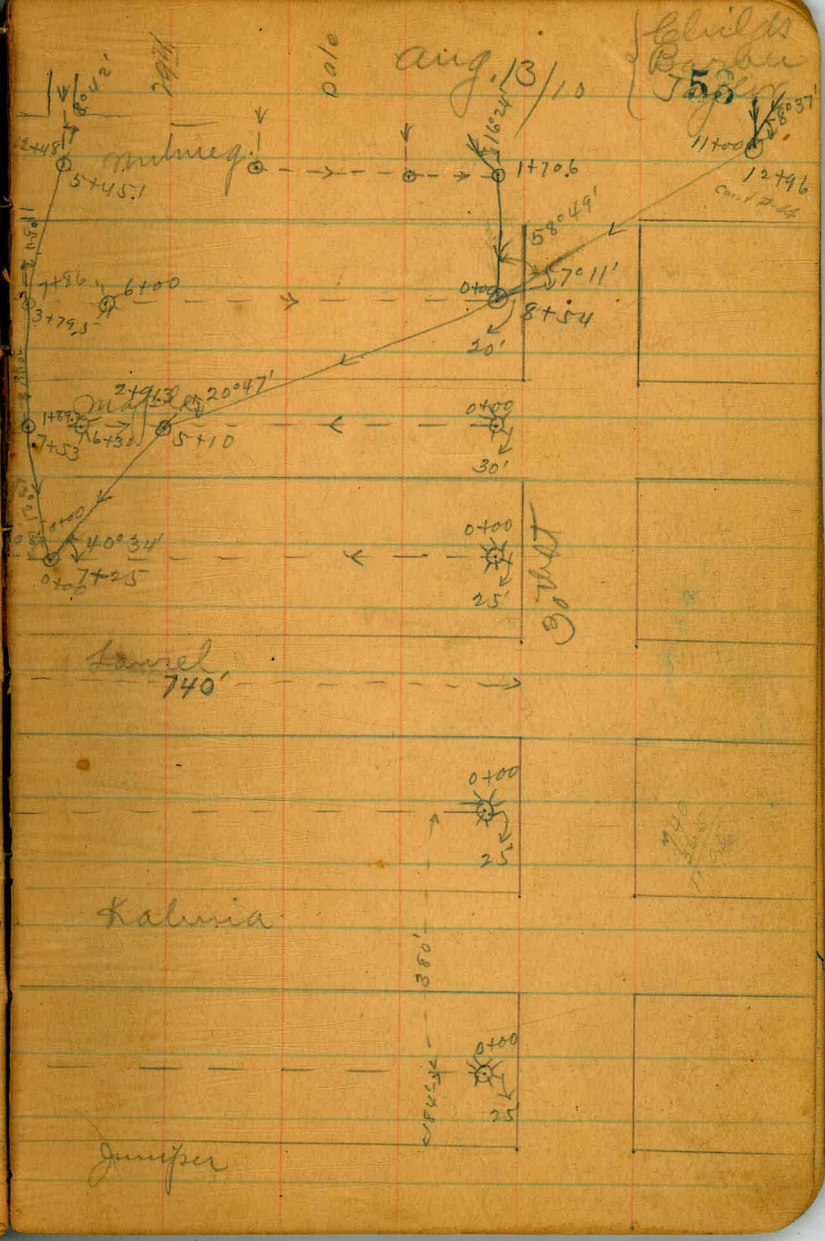
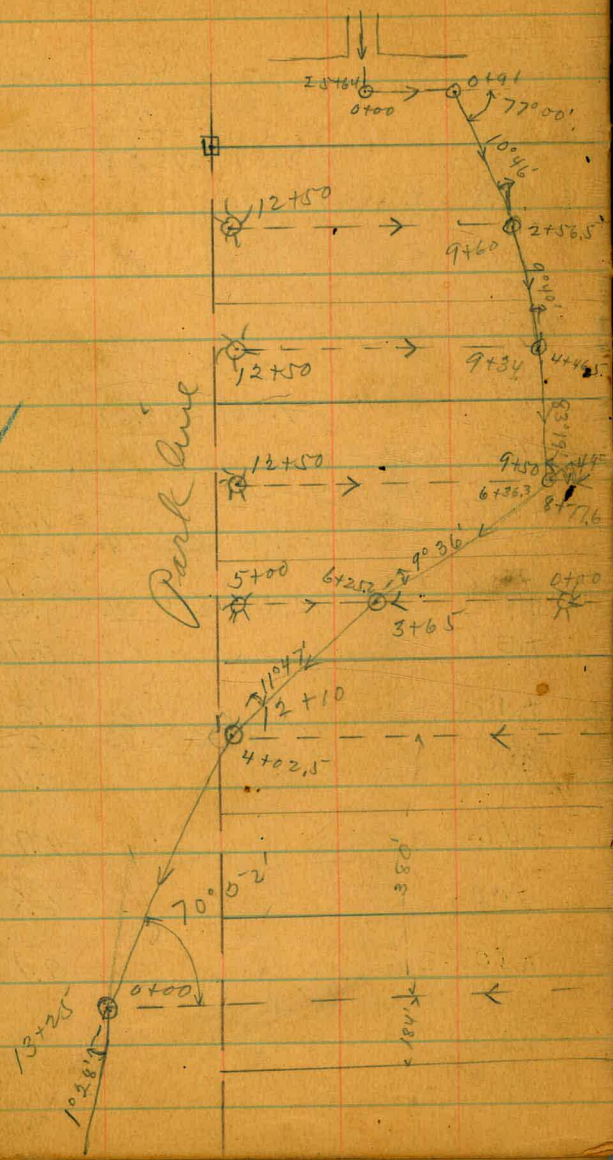
Maple Street C.P.

from 20' west of  
Aug 13/10

Childs  
Baker  
Taylor

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







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

Sta		H.I.	Rod	Elev
0+00	M.H. Sta. 13+25 on alley line bet.	176.35	13.57	163.78
+50	Jumper & Kalina		11.9	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
4+00	M.H. Sta. 12+10m alley line bet. Kalina		5.0	171.3
+02.5	& Laurel.		4.94	171.41
+50			4.1	172.2
5+00			3.1	173.2
J.P.		8.98	183.11	2.22
+50			8.4	174.7
6+00			7.6	175.5
+25.2	M.H. Sta. 3+65 on Laurel street		6.90	176.21
+50			6.2	176.9

11° 47' R  
 40° 34' L

on alley line bet. Jumper  
bet. Herman 132nd Aug 20/10

Builds  
Barrett  
Tayler  
54

Sta.		H.I.	Rod	Elev.
7+00		183.11	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
+77.6	M.H. Sta. 9+50m alley line bet. 7+21 Laurel & maple	191.13	3.19	179.92
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
+50			10.7	190.3
2+00			11.1	189.9
+15			14.0	189.0
+50			10.8	190.2



cont. from page 54

Sta	H.I.	Rod	Elev.
2+91.3	20° 47' R 201.05	10.17	190.88
3+00	M.H. 5+10 on maple street line.	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
J.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 blasted  
 9-15

Aug 27/10 }  
 Barber  
 Jay 55

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. maple & nutmeg	5.49	204.70
+68		6.2	204.0
+84		8.0	202.2
9+00	about 1' above grade of 30th st. water main	7.2	203.0
+24		4.6	205.6
+50		4.0	206.2
+85		5.4	204.8
J.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 30th & 31st	10.48	210.18
+50		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	219.9
+69.3	9° 59' L M.H. Sta 2+68 on alley line bet. Mintney & 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  
Baker  
Tajner } 58

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 & Palmer.	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.
23+00	249.06	5.0	244.1
+17.5	m.H. Sta 7432 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 <sup>Calculus</sup> Parker Page 50

Sta	H.I.	Rod	Elev.
26+35	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		8.41	256.63
+63		10.3	254.7
28+00		7.1	259.9
+50		4.0	261.0
J.P.	11.11 272.18	3.97	261.07
29+00		6.4	265.8
+338		4.80	267.38

21° 47' L  
m.H. angle

45° 31' L

m.H. Sta 9432 on  
alley line bet.  
Quince & Redwood.

about 10' deep.  
m.H. Sta 0400  
in alley line bet.  
Herman & 32nd.  
on center Redwood,



$$\begin{array}{r} \text{1. Sin } 71.20.46W = 9.549693 \\ \text{+ } 186.7 = 2.271144 \\ \hline 1.820837 \end{array}$$

$$\begin{array}{r} \text{1. Sin } 71.21.41 = 9.970827 \\ \text{+ } 186.7 = 2.271144 \\ \hline 2.241971 \\ 1745 \end{array}$$

$$\begin{array}{r} \text{1. Sin } 71.22.32W = 9.583145 \\ \text{+ } 172.8 = 2.237292 \\ \hline 1.820437 \end{array}$$

$$\begin{array}{r} \text{1. Sin } 71.22.32W = 9.965511 \\ \text{+ } 172.8 = 2.237292 \\ \hline 2.202803 \\ 1595 \end{array}$$

$$\begin{array}{r} 1745 \\ 1595 \\ \hline 150 \end{array}$$



canyon line from sta. 23+17.5  
to sta on center Redwood.

Sta		H.I.	Rod	Elev.	
0+00	55°32' R 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.	10°25' R 10.60	270.29	2.08	259.69	
+69	M.H. Sta 5+07m 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	

on main canyon line

avg 29/100  
Tel. 11/10  
Barber  
Jay  
59

Sta.	H.I.	Rod	Elev.
5+50	270.29	1.5	268.8
+61		2.7	267.6
+67.5		0.73	269.56

125°22'  
M.H. Sta 1+78m  
center Redwood

Canyon line from C-12



Survey line from Sta 6+00 on  
to Sta 8+22.1 in center Dale St.

Sta.	28°40' L	H.I.	Rod	Elev.
0+00	M.H. Sta 6+00 on on alley line bet. olive & palm.	242.92	8.73	234.19
+50			10.0	237.9
+75			9.5	233.4
+85			10.9	237.0
1+00			8.6	234.3
+50			5.7	237.7
2+00			3.4	239.5
+50			3.2	239.7
+70			4.4	238.5
J.P.	11.15	251.17	2.90	240.02
+95			8.2	243.0
3+00			10.0	241.2
+03			10.9	240.3
+50			7.6	242.6
+61.5	22°03' L 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

Perfect placed  
 10' to 12' out

alley line bet. olive & palm

Aug. 30/10

Deloitte  
Barney  
Taylor

Sta	H.I.	Rod	Elev.
4+50	251.17	3.8	247.4
+63		4.9	246.3
J.P.	12.90	261.83	2.24
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
J.P.	8.27	269.63	0.47
+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
+47.8		5.64	263.99
+50		5.6	264.0
9+00		3.8	265.8
J.P.	8.13	274.29	3.47
+31		9.6	264.7

3°27' L

M.H. Sta 0+00 on  
alley line bet.  
Quince & Redwood.



Cont. from page 60

Sta	H.T.	Rod Elev.
9+50	274.29	9.1 265.2
+98.3		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		11.5 292.3
+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		1.6 302.6
+75		0.3 305.1
+95		9.2 296.9
13+00		10.1 295.3
J.P.	0.79 296.27	9.96 295.48
+50		4.0 292.2
14+00		8.2 288.1
+50		8.6 287.7

See Book 827

aug 30/10

builds  
Barber  
Taylor

Sta	H.T.	Rod Elev.
1.4+63.8	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
+07		2.88 298.20
J.P.	9.23 307.43	10.0 297.4
+22		8.6 298.8
+50		8.14 299.29

15° 57' R

M.H. Sta 3+40  
on alley line bet.  
30th & Dale,

43° 15' L

M.H. angle.

111° 08' L

M.H. Sta 8+22 on  
Wale street



Compare 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	12.5	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 or scale		2.67	245.30

alley line bet. maple +  
scale + 35<sup>th</sup>

aug 31/10

1 child's  
Basin  
Cage

Applied Survey  
Sheet 12



campfire line from Sta. 7+25 on alley  
to Sta 12+45 on Nutmeg street.

Sta	H.I.	Rod	Elev.
0+00	M.H. 7+25 on alley line bet.	197.95	12.06 185.89
+20	maple & Laurel.		14.2 183.1
+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.	9.94 219.11	1.08	209.27
+47			8.2 210.9
+50			7.9 211.3
+54			8.2 210.9
+67			12.8 206.3
	2° 46' R		
+89.2	M.H. Sta 7+53 on center maple RT.		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

Public lands  
 Map of C. 13

line bet. maple & Laurel

Aug. 31/10

Lehilds  
Barber  
Tapes  
63

Sta.	H.I.	Rod	Elev.
3+50		230.87	5.5 230.4
J.P.	11° 54' R 12.59	243.14	0.32 230.55
+79.5	M.H. Sta. 7+86 on alley line bet.		11.88 231.26
4+00	Nutmeg & maple		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	253.18
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
	9° 42' L		
+45.1	M.H. Sta 12+45 on alley line bet. 29th & Laurel on Nutmeg.		2.66 290.21



16' so. of no. line of mtney parallel to  
line from sta 25+64 on alley line bet. 28<sup>th</sup>

Sta.	H.I.	Rod	Elev.
0+00	m.H. Sta 25+64 on 29.8.10	3.15	295.95
+43	alley line bet. Canada + 28 <sup>th</sup>	5.4	293.7
+50		11.8	287.3
J.P.	1.36	287.68	12.78
J.P.	0.51	276.07	12.12
+82		6.2	269.9
	77° 00' R		
+91	m.H. 14' so. of no. line of mtney.	5.26	270.8
1+00		9.3	266.8
J.P.	1.05	264.35	12.77
+23		2.0	262.3
+50		1.1	263.2
2+00		11.2	253.1
J.P.	0.06	251.79	12.62
+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 & mtney.	11.66	240.13
+73		10.5	241.3
3+00		12.7	239.1
J.P. + 31	0.47	239.28	12.98
+50		3.8	235.5
J.P.	0.08	227.41	9.0
			11.95
4+00		11.5	215.9

north

& Canada + to Sta 9+50 on alley line  
bet. maple & Laurel.

Sta.	H.I.	Rod	Elev.
	9° 40' R	0.87	215.39
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
+80		1.6	202.2
6+00		8.3	197.26
J.P.	0.74	192.00	12.58
+25		5.2	186.8
+36.3	m.H. Sta. 9+50 on alley line bet maple & Laurel.	12.12	179.88

Sept 11/10

J. Childs  
Barber  
Jaglar  
(64)

Maple Street 1/4



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

Sta.	H.I.	Rod	Elev.
0+00	1° 28' L M.H. Sta 13+25 and alley line bet.	164.99	121 163.78
+50	Kabunia & Juniper	1650	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			8.7 155.3
+45			10.6 153.4
+50			10.7 153.3
+67			10.0 155.0

on alley line bet Juniper  
 Sept. 1/10

(delimits  
 Barber  
 Taylor)

Sta	H.I.	Rod	Elev.
3+79	164.99	124	152.6
4+00		11.4	153.6
+50	26° 19' R M.H. angle J.P.	133	155.90
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		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.
9+77	<u>135.90</u>	14.1	141.8
+85		12.0	143.9
I.P.	1.35	<u>145.18</u>	12.07 143.83
10+00		1.3	142.9
+50		2.6	142.6
11+00		3.6	141.6
+50	4° 17' L	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
I.P.	3.34	<u>135.57</u>	12.95 132.23
+82		5.5	130.1
15+00		5.5	130.1
+50		4.9	130.7
16+00		5.3	130.3

Sept. 2/10

Lehilds  
Barber  
Page 66

Sta.	H.I.	Rod	Elev.
16+30	<u>135.57</u>	6.49	129.08
I.P.	6° 24' R	3.51	<u>132.59</u>
+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
I.P.	2.41	<u>122.43</u>	12.57 120.02
+85		5.0	117.4
20+00		4.9	117.5
115		5.3	116.9
		<del>3.0</del>	



Cont. from page 66

Sta.	H.I.	Rod	Elev.
20425	<u>132.43</u>	3.6	118.8
+50		3.8	118.6
21+00		2.7	119.7
+50		4.4	118.0
22+00		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		11.37	111.06
J.R.	2.34	<u>113.40</u>	
+50		2.8	110.6
26+00		4.2	109.2

Sept. 2/10

Calhoun  
Burlingame  
Taddei

Sta.	H.I.	Rod	Elev.
26+50	<u>113.40</u>	5.5	107.9
27+00		6.4	109.0
+50		7.5	105.9
28+00		8.4	105.0
+50		9.2	104.2
29+00		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.R.	2.26	<u>103.78</u>	101.52
+50		3.2	100.6
32+00		3.4	100.4
+50		4.23	99.6

11° 08' R

m.H. angle

9° 06' R

m.H. angle

25° 28' L

m.H. angle

17° 04' L

m.H. angle



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		12.9	90.9
+80		13.00	90.78
J.P.	1.47	92.25	90.78
37+00		2.4	89.8
+35		3.1	89.1
+50		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

567' new line

new sta 36+17  
 1025' R change in line  
 42° 23' R  
 475'  
 M.H. angle  
 J.P.

in Boulevard

" "

Sept. 2/10

Alhilda  
 Bader  
 Target

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		10.2	82.0
+42+00		10.82	81.43
J.P.	83.32	2.1	81.2
+28		4.4	78.9
+37		4.5	78.8
+50		5.9	77.4
43+00		6.8	76.5
+50		8.2	75.1
+77		4.7	78.6
44+00			

75' new line

new sta 40+92  
 18° 40' L change  
 23° 42' L

M.H. angle 1.89  
 Junction north  
 canyon from  
 Alhilda st.



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
J.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  
Barber  
Taylor

Sta	H.I.	Rod	Elev.
	77.87		
50+00		7.5	70.4
+50		7.87	70.00
J.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		0.62	74.03
55+00		4.2	70.4
+25.82		13.0	61.6
J.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		11.16	56.63
+50		11.3	56.5
59+00		11.8	56.0
60+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

27° 07' L  
M.H. angle.

Sept. 3/10

Lehills  
Barlow  
Taylor

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		2.82	64.97
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

79° 40' R  
+24.2 M.H. 16' 40.4' 30'  
J.P. west of center  
+50 79° 19' 40"



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' S. + East	5.51	59.9
+50	of center of 16 <sup>th</sup> C. Street	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.R.	9.52	62.22	52.70
78+00		10.4	51.8

Sept. 6/10

W. L. Bailey  
Taylor

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		14.8	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	boarded	8.9	53.3
82+00	" "	10.8	51.4
+07		12.6	49.6
+50		12.1	50.1



Cuts from page 71.

Sta.	H.T.	Rod	Elev.
83+00	<u>62.22</u>	11.2	51.0
+50		10.6	51.6
84+00		10.0	52.2
+29.4 m.H. 16' no. 7 east		10.75	51.47
J.P. center of 16' <sup>th</sup> 4	<u>54.17</u>		
+50 4' streets 270		2.6	51.6
85+00		3.6	50.6
+50		5.7	48.5
86+00		8.1	46.1
+50		10.0	47.2
87+00		11.3	47.9
+10 m.H. 16' no. 7 east		11.40	42.77
J.P. center of 15' <sup>th</sup> 12	<u>44.04</u>		
+50 4' 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 } Shields  
Barge  
Tay 72

Sta.	H.T.	Rod	Elev.
89+50	<u>44.04</u>	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	<u>36.57</u>	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	<u>31.90</u>	6.62 29.95
95+00	HRT	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	<u>31.90</u>	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	<u>21.70</u>	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

Blue  
Barrel  
73  
Taylor

Sta.	H.I.	Rod	Elev.
105+00	<u>21.70</u>	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	<u>11.51</u>	8.68
+50		3.6	7.9



Cont. from page 73

Sta.	H.I.	Rod	Elev.	Sta.	H.I.	Rod	Elev.
113+00	<u>11.51</u>	4.6	6.9	120+00	<u>8.39</u>	5.2	3.2
+50		4.1	7.4	+50		4.9	3.5
114+00		3.4	8.1	121+00		5.3	3.1
+50		4.6	6.9	+37		4.7	3.7
115+00		6.7	4.8	+45		8.1	+0.3
+50		7.9	3.6	+50		8.3	+0.1
116+00		7.9	3.6	122+00		8.8	-0.4
+50		7.7	3.8	+50		9.0	-0.6
117+00		5.7	5.8	123+00		9.3	-0.9
+50		5.5	6.0	+10		8.5	-0.1
118+00		4.5	7.0	+17		4.9	3.5
+23		8.7	2.8	J.P.	2.61	<u>6.10</u>	4.90
J.P.	5.43	<u>8.39</u>	8.55	+30		2.7	3.4
+50		5.0	3.4	+10		6.8	-0.7
119+00		5.0	3.4	+50		7.2	-1.1
+50		4.9	3.5	124+00		7.5	-1.4
+66	44°41' R M.H. on public line 40.079 Street 16 east of 915 <sup>th</sup>	4.48	3.9	+30		7.7	-1.6

74-



Conte 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

Chas  
Barber  
Jr

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

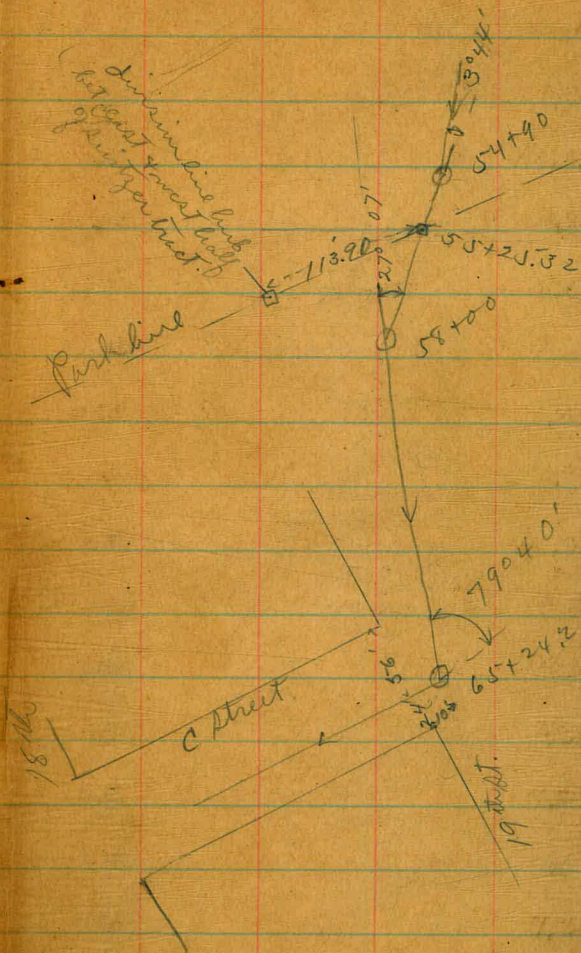
at 2:20 p.m. Sept. 7, 1910:

Sta.	H.I.	Rod	Elev.
131+50	2.47	3.83	
132+00		9.2	-5.6
+50		9.2	-5.6
133+00		9.6	-6.0
+50		9.2	-5.6
+50		9.3	-5.7
134+00		9.6	-6.0



Sta.	H.I.	Rod Elev.	
134+46	<u>3.63</u>	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
J.P.	4.75	-1.05	9.43
+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.T.	Rod	Blk.
140+00	-1.05	8.1	-9.1
+50		8.3	9.3
141+00		8.3	-9.4
+50 water level station		8.6	-9.6
142+00 3:15 P.M. Oct 19/1911		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.		1/2 DEGREE.		1/2 DEGREE.		1/2 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	3.83	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	20.37	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	28.32	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							