

*Return to City Engineers Office
City Hall, San Diego, Cal.*

400

LEVEL

F.B. 448

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City Hall, San Diego, Cal.*

Cook's Quality

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.....	2 $\frac{1}{2}$	21.....	49	41.....	95 $\frac{1}{2}$
2.....	4 $\frac{1}{2}$	22.....	51 $\frac{1}{2}$	42.....	98
3.....	7	23.....	53 $\frac{1}{2}$	43.....	100 $\frac{1}{2}$
4.....	9 $\frac{1}{2}$	24.....	56	44.....	102 $\frac{1}{2}$
5.....	11 $\frac{1}{2}$	25.....	58 $\frac{1}{2}$	45.....	105
6.....	14	26.....	60 $\frac{1}{2}$	46.....	107 $\frac{1}{2}$
7.....	16 $\frac{1}{2}$	27.....	63	47.....	109 $\frac{1}{2}$
8.....	18 $\frac{1}{2}$	28.....	65 $\frac{1}{2}$	48.....	112
9.....	21	29.....	67 $\frac{1}{2}$	49.....	114 $\frac{1}{2}$
10.....	23 $\frac{1}{2}$	30.....	70	50.....	116 $\frac{1}{2}$
11.....	25 $\frac{1}{2}$	31.....	72 $\frac{1}{2}$	51.....	119
12.....	28	32.....	74 $\frac{1}{2}$	52.....	121 $\frac{1}{2}$
13.....	30 $\frac{1}{2}$	33.....	77	53.....	123 $\frac{1}{2}$
14.....	32 $\frac{1}{2}$	34.....	79 $\frac{1}{2}$	54.....	126
15.....	35	35.....	81 $\frac{1}{2}$	55.....	128 $\frac{1}{2}$
16.....	37 $\frac{1}{2}$	36.....	84	56.....	130 $\frac{1}{2}$
17.....	39 $\frac{1}{2}$	37.....	86 $\frac{1}{2}$	57.....	133
18.....	42	38.....	88 $\frac{1}{2}$	58.....	135 $\frac{1}{2}$
19.....	44 $\frac{1}{2}$	39.....	91	59.....	137 $\frac{1}{2}$
20.....	46 $\frac{1}{2}$	40.....	93 $\frac{1}{2}$	60.....	140

448

MICROFILMED
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



LEVEL BOOK

No. 400



FROM
Loring's Book Store

MANUFACTURED BY

A. S. Crocker & Co.

SAN FRANCISCO

and
SACRAMENTO

35150 NE Madison
34201 SE Madt
34285 NW El Cofon

B.M.	Sphinx pole. S.W. ladder	Neting	90.073	
TP	0.81	90.20	13.13	77.15
TP	0.49	77.64	13.03	64.61
	0.14	64.75	13.08	51.67
	0.12	51.79	13.03	38.77
	1.03	39.80	9.89	30.51

1/8/99 (Whittelsey
Taylor
Thomas

Xsection of Arctic
from Kalmia to Willow

N. 6. of Kalmia (30.51)

F	4.02	34.53	10.40	24.1
C			11.90	22.6
1/4			9.50	25.0
2'E of T			4.50	30.0
N. Trail			3.81	30.72
5' W. of T			4.70	29.8
1/4			4.10	30.4
C			5.00	29.5
W.			9.20	25.3

POSTED

25' N. of Kalmia

N	34.53	9.90	25.5
C		6.00	29.5
1/4		4.60	29.9
2' N		4.90	29.6
N. Trail		3.80	30.7
2'E = 1/4		4.50	30.0
5'E of 1/4		6.60	27.9
C		10.40	24.1
E		4.30	30.2

50' N. of Kalmia

E		4.20	30.3
C		5.80	28.7
1/4		5.10	29.4
5'E		4.40	30.1
N. Trail		3.80	30.7
2' N = E		4.70	29.8
1/4		4.60	29.9

X 2

50' N. Centd.

C 34.53 5.10 29.4

W 5.50 29.0

100' N. of Kalmia

W 5.40 29.1

C 5.30 29.2

1/4 4.70 29.8

1/2 = 2' W. 4.50 30.0

N. R. 3.54 30.99

2' E 4.10 30.4

1/4 4.40 30.1

C 4.00 30.5

E 3.60 30.9

150' N

E 3.10 31.4

C 3.20 31.3

1/4 3.70 30.8

2' E of T 3.70 30.8

W. R. 3.29 31.24

2' W 4.10 30.4

1/4 5.00 29.5

C 5.30 29.2

W 6.10 28.4

200' N

W 4.40 30.1

C 3.80 30.7

1/4 3.80 30.7

2' W 3.50 31.0

W. R. 2.86 31.67

2' E 3.30 31.2

1/4 4.10 33.4

T. R. 1.92 32.61

C 9.16 41.77 5.80

F 5.40 36.8

250' N. of Kalmia

E	4.77	2.77	39.0
C		3.60	38.2
1/4		5.30	32.5
2'E of T		10.00	31.8
W.R.		9.56	32.21
2'W. of T		10.40	31.4
1/4		9.80	32.0
C		10.40	31.4
W		10.00	31.8
300' W. of K = S.L. Laurel			
W		10.00	31.8
C		9.60	32.2
1/4		9.10	32.7
2'W. of T		9.70	32.1
W.R.		9.01	32.76
2'E		9.60	32.2
10'E of T		9.40	32.4

4

		6.00	35.8
C		2.30	39.5
E		1.80	40.0
N.L. of Laurel			
E		2.30	39.5
C		2.80	39.0
1/4		7.20	34.6
2'E		8.60	33.2
W.R.		7.95	33.82
2'W		8.70	33.1
1/4		9.00	32.8
C		9.60	32.2
W		10.20	31.6
50' N. of Laurel			
W		10.90	30.9
C		10.10	31.7
1/4		8.80	33.0
2'W		8.20	33.6

50' N. Cont.

W. R.	41.77	7.38	34.39
R' E		8.00	33.8
1/4		7.30	34.5
C		2.60	39.2
E		1.90	39.9

100' N. of Laurel

E		1.90	39.9
C		5.10	36.7
1/4		6.70	35.1
R' E		7.00	34.8
W. R.		6.65	35.12
R' W		7.80	34.6
1/4		8.50	33.3
C		11.30	30.5
W		12.50	29.3

150' N. of Laurel

W		13.40	28.4
C		12.60	29.2
1/4		10.40	31.4
R' W		6.60	35.2
W. R.		5.15	35.9.2
R' E		6.50	35.3
1/4		6.50	35.3
C		5.90	35.9
E		3.30	38.5
TP		6.83	34.94

200' N. of Laurel

E	8.51	43.45	4.80	38.7
C			6.70	36.8
1/4			6.80	35.2
R' E of T			7.70	35.8
W. R.			6.77	36.68
R' W of T			7.50	36.0

200' N. of Laurel Cent

W 1/4	43.45	10.80	32.7
+7		14.50	29.0
C		15.50	28.0
N		10.50	27.7

200' N

W		16.70	26.8
C		15.70	27.8
1/4		8.70	34.8
2' N		6.60	36.9
W. R.		5.89	37.6

2' E		6.60	36.9
1/4		6.80	36.7
C		8.90	34.6
E		4.80	38.7

300' N of Laurel = Sil. Maple

E		4.60	38.9
+10		9.00	39.5

C 1/4

+8

1/4

2' E of T

W. R.

2' W of T

1/4

+10

C

W

N. L. of Maple

W

+90

C

1/4

2' W

W. R.

2' E

9.00 34.3

9.10 34.4

6.90 36.6

5.70 37.8

4.97 38.48

5.70 37.8

5.89 34.7

15.00 28.5

15.10 28.4

16.20 27.3

15.90 27.6

15.00 28.5

13.00 30.5

6.00 37.5

4.20 39.3

3.34 40.11

4.20 39.3

N. of Maple Cent'd

E 1/4	43.45	5.80	37.7
+4		8.10	35.4
C		8.10	35.4
+2		8.20	35.3
E		2.80	40.2

50' N. of Maple

E		1.30	42.2
C		5.40	38.1
+2		7.30	36.2
+8		7.50	36.0
1/4		4.60	38.9
2'E		2.10	40.4
W.R.		2.35	41.10
2'N		3.10	40.4
1/4		5.20	38.2
C		13.00	30.5
+1		14.50	29.0
W		15.30	28.2

100' N. of Maple

W		14.60	28.7
C		18.80	30.7
+2		11.50	32.0
1/4		4.00	39.5
2'N+17		2.20	41.3
W.R.		7.37	42.08
2'E		2.10	41.4
1/4		3.50	40.0
+2		6.00	37.5
E9		5.60	37.9
C		3.70	39.8
E		+0.60	44.10
TR		0.91	42.59

9.4 51.65

150' N of Maple				N. Rail			
E.	51.65	6.40	45.3	250			44.2
C		11.00	40.7	2'E		8.30	43.4
+10		13.20	38.5	1/4		10.10	41.6
1/4		10.70	41.0	+3		17.00	39.7
2'E of T		9.20	42.5	C		11.00	40.7
N. Rail		8.46	43.19	E		7.40	44.2
2'W		9.10	42.6		250' N		
1/4		11.50	40.2	E		6.30	45.4
+9		16.20	35.5	C		10.10	41.6
C		19.20	32.5	+9		10.30	40.9
W		21.00	30.7	1/4		8.40	43.3
200' N. of Maple				2'E		7.30	44.4
W		20.00	31.7	W. R.		6.45	45.20
C		17.50	34.2	2'W		7.40	44.3
+8		17.10	34.6	1/4		10.10	41.6
1/4		11.00	40.7	+4		12.90	38.8
2'W of T		8.20	43.4	+6		14.50	37.2
				C		15.30	36.4
				W		18.10	33.6

300' N of Maple = S. of Nutmeg

N	51.65	15.00	26.7
C		12.40	39.3
+8		11.70	40.0
1/4		1.40	45.3
2' N of T		6.20	45.5
W.R.		5.50	46.2
2' E		6.80	45.4
1/4		7.70	44.0
+1		9.30	42.4
+8		8.20	43.5
1/4		5.50	46.2
C		5.20	46.5
E		2.50	49.2

N. line of Nutmeg

E		40.6	52.3
C		0.90	50.8
+5		5.00	46.7

1/4		5.90	45.8
2' E		4.60	47.1
W.R.		5.93	47.72
2' W		4.80	46.9
1/4		6.20	45.5
2+4		8.50	42.9
C		9.40	42.3
N		11.50	40.2

50' N of Nutmeg

N		9.60	42.1
C		7.60	44.1
+9		7.00	44.7
1/4		5.40	46.3
2' W		3.50	47.9
W.R.		2.98	48.67
2' E		3.60	48.1
1/4		4.60	47.1
+9		3.20	48.5

50' N of Nutmeg Contd.

T.P.	51.65	1.57	50.05
E.C.	12.66	62.74	11.50
F		9.30	53.4

100' N of Nutmeg

E		9.60	55.1
C		9.20	53.5
+R		9.80	52.9
+6		12.90	49.8
1/4		13.50	49.2
2'E		13.70	49.0
W.R.		13.11	49.63
2'W		14.00	48.7
1/4		14.50	48.2
C		16.20	46.5
W		18.20	44.5

150' N of Nutmeg

W		16.60	46.1
C		24.10	48.6

1/4		13.10	49.6
2'W		13.20	49.5
W.R.		12.24	50.50
2'E		12.90	49.8
Φ+6		12.00	59.7
+7		10.40	52.3
1/4		10.50	52.2
C		6.90	55.8
E		5.20	57.5

200' N of Nutmeg

E		2.40	60.3
C		4.00	58.7
+7		7.10	55.6
1/4		9.30	53.7
+8		12.10	50.6
2'E+T-Φ±		11.90	50.8
W.R.		11.35	51.39
2'W		12.50	50.2

200' N. of Nutmeg Control

W 1/4 62.74 11.50 51.2

C 12.10 50.6

W 14.20 48.5

225.77' N of Nutmeg - S. of Olive #1

W 12.60 50.1

C 11.10 51.6

1/4 10.90 51.8

2' West 12.00 50.7

W. R. 10.96 51.78

2' East 11.50 51.2

♀ 11.50 50.9

+1 11.60 51.1

+2 10.20 52.5

1/4 8.50 54.2

+3 6.70 56.0

+5 5.10 57.6

C 3.30 59.4

E 2.00 60.7

S. of Olive #2

E. 1.60 61.1

C 3.20 59.5

+9 7.00 55.7

1/4 8.90 53.8

+10 10.20 52.5

♀ 11.70 51.0

+2 = 3' East 11.40 51.3

W. R. 10.50 51.81

2' W 12.00 50.7

1/4 10.50 51.9

C 10.90 51.8

W 12.60 50.1

N. of Olive #1 (see sketch front of book)

W 11.00 51.7

C 9.50 52.9

1/4 9.40 53.3

2' West 10.60 52.1

N. of Olive #9			
N.R. of T	62.74	9.48	53.26
N'E		10.00	52.7
E+3		10.20	52.5
+4		9.30	52.4
+10		9.00	53.7
1/4		6.70	56.0
+4		4.70	58.0
C		3.80	58.9
E		2.30	60.4

N.W. of Olive #2			
E		1.90	60.8
C		3.50	59.5
+7		4.30	58.4
1/4		6.60	56.1
+1		8.90	53.8
E = 2'E of T		10.10	52.6
N. R.		9.40	53.3

2' West		10.40	52.3
1/4		9.30	53.4
C		9.80	52.9
N		11.00	51.7
50' N. of Olive			
W		11.50	51.2
+3		10.00	52.7
C		9.00	53.7
1/4		8.70	54.0
+4		8.90	53.8
2' West		9.60	52.1
W Rail		8.47	54.27
2'E		9.00	53.7
1/4		8.40	54.3
+3		10.20	56.4
C		5.10	57.6
E		3.10	59.6

100' N. of Olive

E	6.276	2.00	60.7
C		4.20	58.5
+4		5.80	56.9
+6		7.10	54.9
1/4		8.00	54.7
2'E		8.10	54.6
W.R.		7.40	55.3
2'W		6.50	54.2
+8		8.70	54.0
+11		7.50	55.2
1/4		7.90	55.0
C		8.10	54.6
N		9.10	53.2

150' N. of Olive

W		8.00	54.7
+4		6.20	56.5
C		5.80	56.9
1/4		5.90	56.8

1/4 13

		6.00	56.7
+5		7.50	55.2
2'W of T		7.20	55.5
W.R.		6.23	56.41
2'E		6.80	55.9
1/4		7.00	55.7
+2		4.60	58.1
C		3.20	59.4
E		1.70	61.0

200' N. of Olive

E		1.90	60.8
C		3.10	59.6
1/4		2.80	59.9
+2		3.40	59.3
+4		6.20	56.5
2'W of T		6.00	56.7
W.R.		5.35	57.39
2'W		6.20	56.5

200' N of Olive Cont'd			
7' N of ϕ	62.74	6.50	56.2
ϕ + 9		4.80	57.9
$\frac{1}{4}$		4.90	57.8
+4		4.60	58.1
+5		3.80	58.9
C		4.00	58.7
N		3.50	59.2
TIP		3.10	59.64

228.58 N of N. L. of Olive² - S. L. Palm

W	7.82	69.46	9.80	59.7
C			9.80	59.7
+6			9.60	59.9
+8			11.00	58.5
$\frac{1}{4}$			11.00	58.5
+2			11.20	58.3
+4			12.80	56.7
2' N of T			12.40	57.1

W. Tail	11.66	57.80
2' E	12.60	57.1
ϕ + 7	12.60	56.9
ϕ + 9	7.10	62.4
$\frac{1}{4}$	6.50	63.0
C	7.00	62.5
E	7.60	61.9

N. L. of Palm

E	1.40	68.1
C	2.20	67.3
$\frac{1}{4}$	3.80	65.6
+4	12.20	57.3
2' E of T	12.00	57.5
W. R.	11.27	58.19
2' W of T	12.00	57.5
ϕ + 7	12.40	57.1
+9	10.40	59.1
$\frac{1}{4}$	10.50	59.0

N. 1. of Palm Contd

W 1/4 + 3	69.46	10.30	59.2
+ 6		8.30	61.2
C		8.50	61.0
W		9.70	59.8
50' N. of Palm			
W		10.00	59.5
C		8.70	60.8
+ 8		8.30	61.2
+ 10		10.00	59.5
1/4		10.00	59.5
+ 5		12.00	57.5
2' W		12.00	57.5
W. R.		11.30	58.2
2' E		12.10	57.4
4 + 6		12.20	57.2
1/4		3.70	65.8
C		2.30	67.2
E		0.70	68.8

~~25~~ N. of Palm

E	0.10	69.4
C	1.30	68.2
+ 2	1.50	68.0
+ 3	2.00	66.5
1/4	3.80	65.7
+ 7	12.20	57.3
2' E of T	12.20	57.3
W. R.	11.30	58.2
2' W	12.20	57.3
E + 6	12.30	57.2
+ 8	10.00	59.5
1/4	10.00	59.5
+ 4	8.50	61.0
C	8.70	60.8
W	10.60	58.9

100' N. of Palm

W	69.46	11.40	58.1
C		9.30	60.2
1/4		10.00	59.5
+4		9.90	59.6
+7		12.20	57.3
2' W		12.00	57.5
W.R.		11.26	58.20
2' E		11.90	57.6
2+8		11.60	57.9
1/4		4.70	64.8
C		1.70	67.8
E		0.40	69.1

150' N. of Palm

E		2.30	67.2
C		4.00	65.5
+9		5.10	64.4
1/4		6.50	63.0

1/4+6

1/4+6		11.90	57.6
2' E		12.00	57.5
W.R.		11.31	58.15
2' W		12.00	57.5
2+6		12.10	57.4
+8		10.20	59.3
1/4		9.90	59.6
C		10.40	59.1
W		12.00	57.5

200' N. of Palm

W		11.90	57.6
C		10.50	59.0
1/4		10.20	59.3
+5		10.30	59.2
+7		12.20	57.3
2' W		12.00	57.5
W.R.		11.30	58.2
2' E		11.90	57.6

200' N. Cantal.

Φ+9	69.46	11.60	57.9
1/4		8.50	61.0
+5		6.70	62.8
C		5.80	63.7
E.		4.10	65.4

250' N. of Palm

E		4.80	64.7
C		5.40	64.1
+6		6.40	63.1
1/4		8.10	61.4
+4		11.90	57.6
2'E		12.00	57.5
W.R.		11.30	58.2
2'W		12.00	57.5
+6		12.40	57.1
+7		9.90	59.6
1/4		10.10	59.4

C	10.40	59.1
W	11.60	57.9

300' N. of Palm = S. L. of Quince

W	11.70	57.8
C	11.10	58.4
1/4	10.50	59.0
+5	10.10	59.4
+7	12.30	57.2
2'W	12.00	57.5
W.R.	11.25	58.21
2'E	11.90	57.6
Φ+7	11.80	57.7
49	9.30	60.2
1/4	8.50	61.5
C	6.90	62.6
E	5.80	63.7
TP	6.12	63.24

4.18 67.52

N. of Quince

E.	67.52	2.90	64.6
C		4.30	63.2
+8 X		4.00	63.5
1/4		5.50	62.0
X + 2		5.70	61.8
+4		9.80	57.7
2' E		10.00	57.5
N. R.		9.35	58.17
2' W		10.10	57.4
2 + 5		10.20	57.3
+8		7.70	59.8
1/4		7.70	59.8
C		8.00	59.5
+4		6.20	59.3
4b		9.40	58.1
W		9.20	58.3

50' N. of Quince

W		9.10	58.4
C		8.50	59.0
1/4		7.60	59.9
+6		7.70	59.8
+6		10.10	57.4
2' W		10.00	57.5
N. R.		9.30	58.2
2' E		9.80	57.7
2 + 8		9.50	58.0
1/4		9.40	63.1
C		3.10	64.4
E		2.40	65.1

100' N. of Quince

E		1.70	65.8
C		2.00	64.5
1/4		3.60	63.9
+4		3.40	64.1

100' N Contd.

10+7	67.52	9.40	58.1
2'E		9.80	57.7
W.R.		9.37	58.15
2'W		10.10	57.4
2+6		10.50	57.3
+8		8.00	59.5
1/4		8.10	59.1
C		7.90	59.6
+4		8.00	59.5
W		9.20	58.3

150' N. of Quince

W		8.10	59.4
C		7.10	60.4
+6		6.40	61.1
1/4		8.00	59.5
+6		8.00	59.5
+8		10.20	57.3

2'W

	10.00	57.5
W.R.	9.35	58.17
2'E	10.00	57.5
2+8	10.30	57.2
1/4	3.90	63.6
C	2.70	64.8
E	1.10	66.4

200' N. of Quince

E	1.50	66.0
C	2.50	65.0
+8	3.20	64.3
1/4	4.20	63.3
+3	4.50	63.0
+6	10.30	57.2
2'E	10.20	57.3
W.R.	9.33	58.19
2'W	10.20	57.3
4+6	10.10	57.4

200' N. Cont'd.

φ + 8	67.52	8.80'	58.7
1/4		8.70	58.8
+2		8.40	59.1
+3		7.10	60.4
C		7.70	59.8
+6		7.90	59.6
W		9.20	58.3

250' N. of Quince

W		9.50	58.0
C		8.50	59.0
1/4		8.10	59.4
+6		7.70	59.8
+7		10.20	57.3
2' W		10.00	57.5
W.R.		9.34	58.18
2' E		10.30	57.2
+6		10.20	57.3

1/4

5.80 61.7

C

3.70 63.8

E

2.20 65.3

300' N. of Quince = S.L. of Redwood.

E

1.80 65.7

C

3.90 63.6

1/4

4.40 63.1

+6

5.80 61.6

+7

10.20 57.3

2' E

10.20 57.3

W.R.

9.30 58.2

2' W

10.00 57.5

E + 6

10.00 57.5

+ 8

8.00 59.5

1/4

8.40 59.1

C

8.60 58.9

W

9.80 57.7

N. 2. of Redwood

W	67.52	10.50	57.0
+8		10.10	57.4
C		4.10	59.4
1/4		7.70	59.8
+4		7.50	60.0
+8		10.00	57.5
2' W		10.00	57.5
W. R.		9.27	58.25
2' E		10.10	57.4
2+6		10.20	57.3
1/4		4.60	62.9
C		3.40	64.1
E		1.80	65.7

50' N. of Redwood

E		2.70	64.8
C		4.10	63.4
1/4		4.50	63.0

1/4 +4

+6

2' E

W. R.

2' W

2+6

+8

1/4

C

+2

+6

W

W

C

1/4

+6

+8

2' W

4.30

10.60

10.20

9.41

10.10

10.30

8.50

8.60

9.10

9.00

10.70

10.80

11.50

10.40

9.10

8.60

10.90

10.60

63.2

56.9

57.3

58.1

57.4

57.2

59.0

58.9

58.4

58.5

56.8

56.7

56.0

57.1

58.4

58.9

56.6

56.9

100' N. of Redwood

	100' N. of 10'	
W.R.	67.52	57.71
2'E	10.50	57.0
±6	10.70	56.8
+9	5.50	62.0
1/4	4.70	62.8
C	4.00	62.5
E	2.80	64.7
	150' N. of Redwood	
E	5.20	62.3
C	6.50	61.0
±6	6.90	60.6
1/4	6.80	60.7
+4	8.20	69.3
±6	11.60	55.9
2'E	11.10	56.4
W.R.	10.57	56.95
2'W	11.30	56.2

±6		11.50	56.0
+8		9.60	57.9
1/4		10.20	57.3
C		12.00	55.5
+4		11.70	55.8
+7		13.50	54.0
W		14.20	53.3
TR		12.47	55.05
	200' N. of Redwood		
W	5.57	60.62	50.2
+4		9.80	50.8
+8		8.20	52.4
±6		8.80	57.8
1/4		7.40	53.2
2'W		5.40	55.2
W.R.		4.57	56.05
2'E		5.20	55.4
±4.110		5.90	54.9
1/4		4.70	55.9
C		3.80	56.8
E		2.30	58.3

225' N of Tredwood

F	60.62	57.10	55.5
C		6.20	54.4
1/4		7.20	53.4
+2		5.80	54.8
2'E		5.80	54.8
W.R.		4.93	55.69
2'W		5.70	54.9
±10		6.30	54.3
1/4		7.60	53.0
+2		9.20	51.4
C		10.50	50.1
W.		11.50	48.8

250' N. of Tredwood

W		12.50	47.8
C		12.70	47.9
+8		11.70	48.9
1/4		8.50	52.1

+4	60.62	6.50	54.1
2'W		6.20	54.4
W.R.		5.47	56.15
2'E		6.30	54.3
1/4		7.60	53.0
C		8.70	51.9
E		9.00	51.6

300' N. of Tredwood = S.L. of Spruce

E		9.50	51.4
C		9.60	
+6		10.00	
+10		8.70	
1/4		7.90	
2'E		7.20	
W.R.		6.40	54.2
2'W		7.50	
+10		7.70	
1/4		6.70	

S.L. Spruce Cont'd:

1/4+5	60.62	12.80	47.8
C		13.60	47.0
W.		14.10	46.5

N.L. of Spruce

W.		14.10	46.5
+10		12.70	47.9
C		12.00	48.6
1/4		11.40	49.2
+6		8.80	51.8
2' W		8.50	52.1
W.R.		7.70	52.9
2' E		8.40	52.2
+9		8.60	52.0
1/4		9.50	51.1
C		7.80	52.8
E		6.70	53.9

60.62
50' N. of Spruce

E		5.60	55.0
C		6.50	54.0
1/4		7.50	53.1
+4		9.20	51.4
2' E		9.20	51.4
W.R.		8.53	52.1
2' W		9.30	51.3
1/4		10.10	50.5
C		10.80	49.8
W		12.70	47.9

100' N of Spruce

W		14.00	46.6
+10		13.00	47.6
C		12.30	48.3
1/4		11.40	49.2
2' W		10.00	50.6
W.R.		9.20	51.4

100' N. of Spruce

2' W. of T	60.72	10.00	50.6
+8		10.10	50.1
1/4		8.40	52.2
C		7.40	53.2
E		6.50	54.1

150' N. of Spruce

E		6.40	54.2
C		7.40	53.2
1/4		8.60	52.0
+4		10.60	50.0
2' E		10.70	49.9
W R.		9.93	50.7
2' W		10.80	49.8
1/4		11.60	49.0
C		12.70	47.9
W		13.30	47.3

200' N. of Spruce

W		13.20	47.4
C		13.40	47.2
1/4		12.20	48.4
2' W		11.30	49.3
W R.		10.54	50.1
2' E		11.20	49.4
E+6		11.20	49.4
1/4		9.60	50.8
E2		7.90	52.7
C		7.10	53.5
E		6.00	54.6

250' N. of Spruce

E		6.40	54.2
C		7.50	53.1
+8		8.40	52.2
1/4		9.60	
+4		10.50	

250' N. Cont'd

3/4 #6	60.62	12.00	
2' E		11.90	48.7
W. R.		11.11	49.5
2' W		12.00	48.6
1/4		12.40	48.2
C		14.00	46.6
W		14.30	46.3
TP		12.03	46.59

300' N of Spruce = S.L. of Sassafras

W	6.42	55.01	10.00	45.0
C			9.30	45.7
1/4			8.10	46.9
2' W			7.00	48.0
W. R.			6.35	48.6
2' E			6.80	48.2
Q + S			6.80	48.2
1/4			5.00	50.0
C			4.80	50.8
E			2.40	52.6

N.L. of Sassafras

F	55.01	3.40	51.6
C		4.60	50.4
1/4		5.20	49.8
+6		8.40	46.6
2' E		8.30	46.7
W. R.		7.69	47.3
2' W		5.40	46.6
1/4		8.70	46.3
C		9.90	45.1
W		10.80	44.8
	50' N	4.8	
W		11.80	43.2
C		12.30	42.7
1/4		11.80	43.2
+5		9.60	45.4
2' W		9.40	45.6
W. R.		8.63	46.4

50' N of Sassa contd

2' W of T	5.501	9.20	45.8
+6		9.10	45.9
1/4		7.40	47.6
C		6.10	48.9
E		5.30	49.7

100' N of Sassafras

E		7.40	47.6
C		8.40	46.6
1/4		9.40	45.6
2'E		10.10	44.9
W, R.		9.38	45.6
2' W		10.10	44.9
4 + 7		10.90	44.1
1/4		13.60	41.4
C		14.50	40.5
W		14.90	40.1

150' N. of Sassafras

N	55.01	12.60	38.4
C		15.2	39.8
1/4		14.50	40.5
46		10.80	44.2
2' W		10.70	44.3
W, R.		10.08	44.9
2'E		10.80	44.2
1/4		10.20	44.8
C		9.70	45.3
E		8.20	46.8

200' N of Sassa

E		9.00	46.0
C		10.60	44.4
1/4		11.90	43.1
2'E		11.70	43.3
W, R.		10.80	44.2
2' N		11.60	43.4

200' N. Contd

2+6	17.01	11.90	43.1
1/4		16.00	39.0
C		16.60	38.4
W		17.50	37.5
TP		18.31	42.70

250' N. of Sassafras

W	3.47	46.17	9.90	36.3
C			9.50	36.7
1/4			9.30	36.9
+6			4.00	42.2
2' W			2.70	42.5
W.R.			3.04	43.1
2' E			3.40	42.8
1/4			4.60	41.6
C			3.40	42.8
E			1.40	44.8

300' N. of Sassafras = S. of Thorn

E	46.17	2.90	43.3
C		4.50	42.1
1/4		6.00	40.2
+4		4.50	41.7
2' E		4.30	41.9
N.R.		3.55	42.6
2' W		4.30	41.9
+8		4.50	41.7
1/4		7.70	38.5
+6		11.10	35.1
C		11.70	34.5
W		11.40	34.8

N. of Thorn

W		15.70	30.3
C		13.20	33.0
+8		11.30	34.9
1/4		9.20	37.0

N. L. of Thorn Contd

2+6	46.17	5.60	40.6
2' W		5.20	41.0
W.R.		4.51	41.7
2' E		5.20	41.0
1/4		5.40	40.8
+4		5.50	40.7
+6		7.40	38.8
C		6.50	39.7
E		4.20	42.0

50' N. of Thorn

E		4.90	41.3
+8		5.90	40.3
+9		6.90	39.3
C		7.70	38.5
1/4		8.20	37.0
+6		6.00	40.2
2' E		5.80	40.4
W.R.		5.00	41.2

Whiteley
Taylor
Thomas

1/9/09

2' W	46.17	5.80	40.4
+8		6.10	40.1
1/4		9.50	36.7
+4		11.80	34.4
C		13.00	33.2
W		14.30	31.9

100' N. of Thorn

W		14.00	32.2
C		12.80	33.4
1/4		11.20	35.0
+6		6.30	39.9
2' W		6.00	40.2
W.R.		5.37	40.8
2' E		6.30	39.9
1/4		6.20	39.9
+6		8.60	37.6
C		7.80	39.0
E		4.60	41.6

150' N of Thorn

F	46.17	4.00	42.2
C		5.70	40.5
+2		6.00	40.2
+3		7.10	39.1
+9		7.90	38.3
1/4		6.80	39.4
2'E		6.30	39.9
W.R.		5.59	40.6
2'W		6.30	39.9
4+6		6.90	39.3
1/4		9.80	36.4
C		11.70	34.5
W		12.70	33.5
200' N of Thorn			
W		12.30	33.9
C		10.40	35.8
1/4		9.10	37.1

2'W

4617	6.40	39.8
W.R.	5.70	40.5
2'E	6.50	39.7
+6	6.60	39.6
+8	7.70	38.5
1/4	7.60	38.6
+3	7.00	39.2
+5	5.10	41.1
C	4.80	41.4
E	3.60	42.6
TR	2.91	43.26

250' N of Thorn

E	8.18	37.44	7.60	43.8
C			9.80	42.1
1/4			12.00	39.4
2'E			11.80	39.6
W.R.			11.04	40.4
2'W			11.90	39.5

250' N Centol

R+8	51.44	12.50	38.9
+10		13.90	37.5
1/4		14.50	36.9
0		15.20	36.2
W		15.80	35.6

300' N of Thorn-sh. Upas.

W		14.00	37.4
C		12.30	39.1
1/4		12.10	39.3
2' W		11.90	39.5
W, R.		11.10	40.3
2' E		11.80	39.6
2' 26		11.80	39.6
+8		10.90	40.5
1/4		10.60	40.8
+4		9.70	41.7
+5		8.50	42.9
C		7.70	43.7
E		6.60	44.8

N. L. Upas

E	4.31	51.57	5.00	46.6
C			6.10	45.5
+6			7.00	44.6
+10			10.90	40.7
1/4			11.10	40.5
2' E			12.90	39.6
W, R.			11.26	40.3
2' W			12.00	39.6
1/4			12.20	39.4
+3			11.60	40.0
+5			10.40	41.2
C			10.70	40.9
W			12.10	39.5

50' N. of Upas

W			13.60	38.0
C			12.90	38.7
1/4			11.80	39.8

70' N Cont'd			
2' N	51.57	12.20	39.4
W, R ₁		11.33	40.2
2' E		12.10	39.5
1/4		12.00	39.6
+4		11.70	39.9
+8		8.50	43.1
C		8.00	43.6
E		6.60	45.0

100' N of Upas			
E		8.00	43.6
C		8.70	42.9
+6		9.80	41.8
+8		11.60	40.0
1/4		12.30	39.3
2' E		12.20	39.4
W, R ₁		11.40	40.2
2' W		12.30	39.3

1/4	51.57	12.90	38.7
C		14.00	37.6
W		15.00	36.6
150' N of Upas			
W		15.70	35.9
C		15.00	36.6
1/4		14.30	37.3
3/4		13.60	38.0
+6		12.60	39.0
2' W		12.30	39.3
W, R ₁		11.48	40.1
2' E		12.30	39.3
+8		12.30	39.3
1/4		14.00	37.6
+5		13.30	38.3
+6		12.20	39.4
C		11.90	39.7
E		11.00	40.6
TP		11.88	39.75

175' N of Upas		(29.75)	
F	6.04	45.99	5.60 40.2
C			7.00 38.8
+4			7.40 38.4
+6			9.20 36.6
1/4			9.40 36.4
+2			9.10 36.7
+6			6.90 38.9
2'E			6.50 39.3
W.R.			5.75 40.0
2'W			6.60 39.2
Φ +8			6.60 39.2
1/4			9.60 39.2
C			10.60 35.2
W			10.80 35.0

200' N of Upas

W	11.60	34.2
C	10.50	35.3

1/4	45.79	9.90 35.9
+2		9.30 36.5
+6		6.80 39.0
2'W		6.60 39.2
W.R.		5.77 40.0
2'E		6.50 39.3
Φ +6		6.90 38.9
+10		9.20 36.6
1/4		9.50 36.3
+8		9.00 36.8
+10		7.50 38.0
C		7.10 38.7
E.		5.80 40.0

250' N of Upas

E	4.30	41.5
C	5.70	40.1
+8	6.40	39.4
+10	7.40	38.4

250' N of U pas Cont'd

1/4	46.79	6.00	39.8
+1		8.10	37.7
+2		9.10	36.7
+4		6.00	37.8
+6		6.80	39.0
2'E		6.60	39.2
W.R.		5.82	40.0
2'W		6.50	39.3
E+8		6.70	39.1
1/4		9.50	36.3
C		10.40	35.4
W		11.90	33.9

300' N of U pas = S.L. Vine

W		13.70	32.1
C		12.50	33.3
1/4		10.90	34.9
+7		6.80	39.0

2'W		6.60	39.2
W.R.		5.87	39.9
2'E		6.60	39.2
+8		6.50	39.0
+10		9.00	36.8
1/4		6.90	38.9
+2		6.60	39.2
+4		5.30	40.5
C		4.50	41.3
E		2.90	42.9

N.E. of Vine

E		3.50	42.3
C.		6.00	39.8
1/4		7.20	38.6
+3		5.36	37.5
+4		9.10	36.7
+6		6.70	39.1
2'E		6.70	39.1

N. of Vine

N. Rail	45.79	5.92	39.9
2' W		6.70	39.1
⊕ + 6		7.00	38.8
1/4		9.20	36.6
C		9.90	35.9
W		10.00	35.8

50' N of Vine

W		9.00	36.8
C		8.20	37.6
1/4		7.80	38.0
2' W		6.70	39.1
W.R.		5.91	39.9
2' E		6.60	39.2
⊕ + 10		7.20	38.6
1/4		9.30	36.5
+ 5		5.30	40.5
C		5.20	40.6
E		4.30	41.5

100' N. of Vine

E		3.70	42.1
C		4.80	41.0
1/4		4.60	41.2
+ 5		9.20	36.6
+ 8		6.60	39.2
2' E		6.60	39.2
W.R.		5.83	40.0
2' W		6.70	39.1
1/4		6.70	39.1
C		7.90	37.9
W		9.20	36.6

150' N of Vine

W		10.30	35.5
C		8.90	36.9
1/4		6.60	39.2
2' W		6.40	39.4
W.R.		5.67	40.1

150' N Contd			
2'E	45.79	6.40	39.4
q + 8		6.70	39.1
1/4		9.40	36.4
+5		6.90	38.9
C		6.60	39.2
E	±	6.00	39.8
200' N. of Vine			
E		7.80	38.0
C		8.20	37.6
1/4		8.30	37.5
+2		9.30	36.5
+6		6.40	39.4
2'E		6.20	39.6
W.Q.		5.49	40.3
2'W		6.30	39.5
+16		7.10	38.7
1/4		8.80	37.0

1/4+6	11.00	34.8
C	10.40	34.4
W	11.00	34.8
250' N of Vine		
W	10.60	35.2
C	10.00	35.8
+6 1/2	11.20	34.6
1/4	7.80	38.0
+4	6.40	39.4
2'W	6.00	39.8
W.R.	8.23	40.6
2'E	6.70	40.1
1/4	6.30	39.5
+6	8.70	37.1
C	8.40	37.4
E	7.70	38.1

X 300' N of Vine = Sil. Willow

E	45.79	6.90	38.9
C		7.10	38.7
1/4		8.00	37.8
+6		6.50	40.3
2' F		5.40	40.4
W. R.		4.84	41.0
2' W		5.80	40.0
1/4		6.90	38.9
+6		10.30	35.5
C		9.50	36.3
W		9.80	36.0
TP		8.03	37.76

12.81 50.57

POSTED

Levels on E. Rail of LaTolla tracks

+ 36

from N.L. of Willow to N.L. of Harastby

N.L. Willow = 0+0	50.57	8.37	42.2
0+50		7.57	43.0
1		6.60	44.0
+50		5.74	44.8
2		4.94	45.6
+50		4.39	46.2
3		4.07	46.5
+50		3.72	
4		3.29	
+50		2.85	
5		2.37	
+50		1.93	
6		1.42	
+50		0.85	
TP		1.01	49.56

6+95.7
S. Spinder

7.34 56.90 6.65

7+00 56.90 6.60

7+41 S.E. Car. Xiang 6.03

7+50 5.98

7+80 N.W. Window 5.70

8 5.54

+50 5.15

9 4.87

+50 5.62

10 4.47

+50 4.45

11 4.54

+50 4.88

12 5.23

+50 5.53

13 5.68

+15.3 = N.W. Parathu 5.73

T.P. 0.35 56.55

104
036
71

56.55

12.70 69.25 17.9 67.96

9.45 77.41 71 9.08 68.33

78.12

68.79 ✓
B.M. Chalmers
& India.

4/15/09
 Wittelsch
 Taylor
 Churchman
 X section of Anette

see sketch front of
 Book.

150' N.

38

X section of CALIFORNIA ST. La Jolla St to Middleton

BM sph in tel. pole 200' N of McFee	70.39		
Pt of intersection of E.L. of Cal. + E.L. of La Jolla Sts			
+0 +1	4.73	75.12	6.20 48.9 Top of Bank
			9.70 45.4 Bot. of "
50' N			
E.L. of Cal.	7.3		67.8
C	7.5		67.6
+5	7.8		67.3
+)	8.8		66.3
E.L. of La Jolla	9.4		65.7
100' N.			
E.L. of Cal.	7.0		68.1
C	7.3		67.8
1/4	7.6		67.5
2	7.6		67.5
E.L. of La Jolla	8.6		66.5

PLOTTED

E.L. of Calif.

C

1/4

2

1/4

C

E.L. of La Jolla

W.L. of Cal.

C

1/4

2

1/4

C

E.L.

TP

52.2

69.9

6.0

69.1

6.5

68.6

7.5

67.6

7.8

67.3

8.3

66.8

8.3

66.8

162.3' N = 0+0 #2

POSTED

8.0

67.1

7.6

67.5

6.8

68.3

6.3

68.8

5.8

69.3

5.1

70.0

4.4

70.7

0.10

75.02

50' N of ozo #2 (2502)

E	13.19	88.21	10.40	77.8
C			11.80	76.4
1/4			13.10	75.1
1/2		75.12	1.20	73.9
3/4			2.50	72.6
C			2.50	72.6
W			3.20	71.9

94.7' N. of ozo #2 = S.L. of Stone = 80'

W		88.21	11.0	77.2
C			9.6	78.6
1/4			8.6	89.6
1/2			7.6	80.6
3/4			6.8	81.4
C			5.2	83.0
E			3.7	84.5

PLOTTED

S. Curb of Stone

E		88.21	1.3	86.9
C			2.9	85.3
1/4			4.0	84.2
1/2			5.1	83.1
3/4			6.1	82.1
C			7.1	81.1
W			8.5	79.7

5 1/4 of Stone

W			7.3	80.9
C			5.8	82.4
1/4			4.7	83.5
1/2			3.7	84.5
3/4			2.9	85.3
C			1.2	87.0
TP			0.46	87.75
E	12.66	100.43	11.20	

E of Stone

E	100.43	6.6	91.8
C		10.0	90.4
1/4		12.2	88.2
1/2		13.5	86.9
3/4		14.8	85.6
C		15.2	85.2
W		15.1	82.3

N 1/4 of Stone

W		16.8	83.6
C		14.6	85.8
1/4		13.1 12.8	87.3
1/2		11.5 10.6	88.9
3/4		9.8	91.1
C		7.6	92.8
E		6.2 4.4	94.2

PLOTTED

N. Cor. of Stone

F		4.4	96.0
C		6.0	94.4
1/4		7.6	92.8
1/2		9.5	90.9
3/4		11.2	89.2
C		13.7	86.7
W		14.1	86.3

N L. of Stone

W		13.8	86.6
C		11.6	88.8
1/4		9.3	91.1
1/2		7.9	92.5
3/4		6.2	94.2
C		4.4	96.0
E		2.6	97.8
TR		0.31	100.12

POSTED

50' N of Stone (100.72)

E	13.17	113.29	10.4	102.9
C			12.3	101.0
1/4			14.0	99.8
ϕ		100.43	2.5	99.9
1/4			3.6	96.8
C			5.6	94.8
W			7.7	92.7

100' N. of Stone

W		113.29	14.2	99.1
C			12.4	90.9
1/4			10.6	
ϕ			8.9	4.4
1/4			7.2	
C			5.3	
E			2.9	10.4
T.R.			0.46	97
T.R.			0.46	112.83

PLOTTED

156.7' N. of Stone = S. of No. 11 (112.83)

E	13.06	125.89	7.8	118.1
C			9.6	
1/4			12.0	
ϕ		113.29	0.1	137
1/4			2.7	27
C			5.0	
W			6.8	6.5

S. Curb of No. 11

W		125.89	16.6	109.3
C			18.7	110.2
1/4			13.9	112.0
ϕ			11.4	114.5
1/4			9.1	
C			7.7	
E			6.1	19.8

S¹/₄ of Noell

E	125.89	5.00	120.9
C		6.50	
$\frac{1}{4}$		8.3	
ϕ		9.5	14.4
$\frac{1}{4}$		11.6	
C		13.2	
W		14.8	11.1

ϕ of Noell

W	12.5	13.4	
C		11.0	
$\frac{1}{4}$		9.3	
ϕ		7.6	18.3
$\frac{1}{4}$		6.6	
C		4.7	
E	3.1	22.8	

125.89

N¹/₄ of Noell

E	1.3	124.6	
C		3.0	22.9
$\frac{1}{4}$		4.6	
ϕ		6.0	19.9
$\frac{1}{4}$		7.5	
C		8.7	
W		10.00	15.9

N. Curb of Noell

W	7.9	18.0	
C		6.6	
$\frac{1}{4}$		4.6	
ϕ		3.2	22.7
$\frac{1}{4}$		2.2	
C		0.9	
E	10.5	26.4	
	0.10	125.79	

42

PLOTTED

N. L. of Noell (125.79)

E	12.73	136.52	9.9	128.4
C			11.60	
1/4			12.20	
ϕ		126.89	0.2	125.7
1/4			2.1	
C			3.9	
W			4.9	21.0

58.22 N. of Noell = S.L. of 5th or 6th

W		136.52	8.8	29.7
C			6.9	31.4
1/4			5.8	32.7
ϕ			4.3	34.3
1/4			3.1	
C			2.4	
E			1.3	37.2
TP			0.32	136.20

PLOTTED

50 of 5th (136.20)

E	13.09	151.29	9.6	141.7
C			11.0	
1/4			11.9	
ϕ		136.52	0.7	37.8
1/4			1.6	
C			3.1	
W			4.6	33.9

5 1/4 of 5th

W		151.29	14.2	37.1
C			12.0	
1/4			10.3	
ϕ			9.0	42.3
1/4			7.60	
C			6.40	
E			5.20	46.1

PLOTTED

☐ of 5th

W	151.29	11.8	139.5
C		10.0	
1/4		8.4	
☐		6.6	44.7
1/4		4.7	
C		2.9	
E		1.0	50.3

N. 1/4 of 5th

W		9.2	47.1
C		7.8	
1/4		5.3	
☐		3.8	47.5
1/4		1.9	
C		0.0	
E	162.29	9.2	53.1

T.P. 151.29 0.05 151.24

PLOTTED

11.05 162.29

N. Curb of 5th

84

E	162.29	6.8	155.5
C		8.4	
1/4	151.29	0.1	
☐		1.2	50.1
1/4		3.0	
C		5.0	
W		6.5	44.8

N. L of 5th

W		4.3	47.0
C		2.2	
1/4		0.5	
☐	162.29	8.1	54.7 POSTED
1/4		6.8	
E		5.8	51.5

64.5

50' N of 5th

✓	F	162.29	3.5	158.8
	E		5.8	✓ 16.5
24.5	1/4		8.5	
	E		10.9	✓ 1.4
✓	W	151.29	4.3	47.0

100' N of 5th

✓	W	162.29	13.90	48.4
25.16	E		12.2	50.1
✓	E		9.0	✓ 3.3

115.5' N of 5th = E.L. of Estuillo

✓	W		13.4	48.9
14.9	C		11.5	50.8
	E		10.2	✓ 2.1

At Apex 44.4 from Cor of Estuillo

14.7 47.5

TP

		162.29	13.12	149.17
		0.35	149.52	10.13
		0.11	136.50	12.97
		2.03	125.56	12.15
		0.89	113.30	13.05
		0.19	100.41	13.16

		89.27	12.49	76.78
		4.19	80.97	10.43
				70.54

POSTED

PLOTTED

76.78

1+0

W		1.8	75.0
crk		2.2	74.6
+1		3.1	73.7
1/4		2.4	74.4
M		2.1	74.7
1/4		2.2	74.6
+9		2.9	73.9
crk		2.2	74.6
E		1.7	75.1

1+20

E		0.4	76.4
crk		0.7	76.1
+1		1.2	75.6
1/4		0.8	76.0
M		0.5	76.3
1/4		1.0	75.8
+9		1.7	75.1
crk		0.6	75.2
W		0.2	75.6

T.P. 12.50 88.77 0.51 76.27

88.77

1+50

W		10.9	77.9
crk		11.3	77.5
+1		11.9	76.9
1/4		11.5	77.3
M		11.2	77.6
1/4		11.3	77.5
+9		11.7	77.1
crk		11.2	77.6
E		10.9	77.9

1+75

E		9.2	79.6
crk		10.2	78.6
+1		10.6	78.2
1/4		9.8	79.0
M		9.8	79.0
1/4		10.1	78.7
+9		10.4	78.4
crk		10.0	78.8
W		9.4	79.4

82.77

2+0

W	7.8	81.0
crk	8.4	80.4
+ 1	7.2	89.6
"4	8.7	80.1
M	8.3	80.5
"4	8.5	80.3
+ 9	8.9	78.9
crk	8.3	80.5
E	7.8	81.0

2+25

E	6.4	82.4
crk	6.8	82.0
+ 1	7.5	81.3
"4	7.0	81.8
M	6.8	82.0
"4	7.1	81.7
+ 9	7.6	81.2
crk	6.9	81.9
W	6.4	82.4

88.77

2+50

W	4.9	83.9
crk	5.4	83.4
+ 1	6.3	82.5
"4	5.6	83.2
M	5.3	83.5
"4	5.6	83.2
+ 9	6.4	82.4
crk	5.3	83.5
E	5.1	83.7

2+70 = S.L. Feldspar Ave 80'-20' side

E	4.0	84.8
crk	4.2	84.6
+ 1	5.2	83.6
"4	4.4	84.4
M	4.0	84.8
"4	4.4	84.4
+ 9	4.7	84.1
crk	3.9	84.9
W	3.6	85.2

S. curb - Feldspar

W	3.0	85.8
crk	3.2	85.6
+ 1	4.1	84.7
"4	3.7	85.1
M	3.2	85.6
"4	3.5	85.3
+ 9	4.2	84.6
crk	0.5	85.3
F	3.7	85.1

5 "4

E	3.7	85.1
crk	4.0	84.8
"4	3.2	85.6
M	2.8	86.0
"4	3.3	85.5
+ 9	3.7	85.1
crk	2.7	86.1
W	2.6	86.2

center

W	2.2	86.6
crk	2.5	86.3
+ 1	3.3	85.5
"4	3.0	85.8
M	2.5	86.3
"4	3.0	85.8
crk	3.5	85.3
F	3.2	85.6

11 "4

E	2.4	86.4
crk	3.1	85.7
"4	2.6	86.2
M	2.1	86.7
"4	2.5	86.3
+ 9	3.2	85.6
crk	2.1	86.7
W	1.8	87.0

88.77
 Note - curb & sidewalk is laid on E side of Lament
 from Feldspar for 135.5' North
 N. CURB

W	1.5	87.3
crb.	1.7	87.1
+ 1	2.7	86.1
"A	2.0	86.8
M	1.7	87.1
"A	2.2	86.6
+ 9	1.9	86.9
crb	0.70	88.1
E	0.78	

N. L. Feldspar

E	0.6	
crb	0.70	
gutter	1.7	87.1
"A	1.2	87.6
M	0.9	87.9
"A	1.2	87.6
+ 9	2.0	86.8
crb	0.9	87.9
W	0.5	88.3

T.P. 12.89 101.54 0.07 88.70

101.54

0+25 N of Feldspar

W	12.1	89.4
crb	12.3	89.2
+ 1	13.3	88.2
"A	12.7	88.8
M	12.5	89.0
"A	12.8	88.7
gtr	13.3	88.2
crb	12.57	
F	12.5	

0+50

F	11.5	
crb	11.47	
gtr	12.4	89.1
"A	11.8	89.7
M	11.4	90.1
"A	11.6	89.9
+ 9	12.2	89.3
crb	11.2	90.3
W	10.9	90.6

POSTED

101.54

0+75

W	9.5	92.0
crk	9.9	91.6
+ 1	11.1	90.4
1/4	10.2	91.3
M	10.0	91.5
1/4	10.6	90.9
gtr	11.4	90.1
crk	10.47	
F	10.9	

1+0

E	9.3	
crk	9.56	
gutter	10.40	91.1
1/4	9.6	91.9
M	9.1	92.4
1/4	9.1	92.4
+ 9	10.0	91.5
crk	8.8	92.7
W	8.3	93.2

1+35⁵ = end of cement curb ⁵²

W	6.7	94.8
crk	7.1	94.4
+ 1	8.2	93.3
1/4	7.6	93.9
M	7.4	94.1
1/4	7.9	93.6
gutter	8.7	92.8
crk	8.00	93.5
F	8.2	93.3

1+50

E	7.4	94.1
crk	7.5	94.0
+ 1	8.5	93.0
1/4	7.5	94.0
M	6.9	94.6
1/4	7.0	94.5
+ 9	7.3	94.2
crk	6.3	95.2
W	6.0	95.5

10154

1+75

W	4.8	96.7
erb	5.2	96.3
+ 1	6.2	95.3
"4	5.8	95.7
M	5.6	95.9
"4	6.4	95.1
+ 9	7.5	94.0
erb	6.5	95.0
E	6.3	95.2

2+0

E	5.3	96.2
erb	5.4	96.1
+ 1	6.1	95.4
"4	5.5	96.0
M	4.6	96.9
"4	4.7	96.8
+ 9	5.0	96.1
erb	3.9	97.6
W	3.5	98.0

53

2+25

W	2.2	99.3
erb	2.8	98.7
+ 1	3.8	97.7
"4	3.5	98.0
M	3.5	98.0
"4	4.5	97.0
+ 9	5.2	96.3
erb	4.4	97.1
E	4.3	97.2

2+50

E	3.2	98.3
erb	3.4	98.1
+ 1	4.1	97.4
"4	3.5	98.0
M	2.4	99.1
"4	2.3	99.2
+ 9	2.5	99.0
erb	1.6	99.9
W	1.2	100.3

10154

2+70 = S.L. Emerald Ave 80' - 20' sidewalk

W	0.5	101.0
crk	0.8	100.7
+1	1.6	99.9
1/4	1.5	100.0
M	1.6	99.9
1/4	2.6	98.9
+9	3.6	97.9
crk	2.6	98.9
E	2.6	98.9

S. Curk

E	2.6	98.9
crk	3.2	98.3
1/4	2.1	99.4
M	1.2	100.3
1/4	1.2	100.3
crk	1.5	100.0
W	0.9	100.6

51

5 1/4

W	0.7	100.8
crk	1.2	100.3
1/4	1.1	100.4
M	1.0	100.5
1/4	2.0	99.5
crk	2.6	98.9
E	2.3	99.2

center

E	1.8	99.7		
crk	2.3	99.2		
1/4	1.7	99.8		
M	0.8	100.7		
1/4	0.8	100.7		
crk	1.3	100.2		
W	0.2	101.3		
T.P	8.33	109.35	0.52	101.02

109.35

N¹¹A

W	8.3	101.1
crk	8.7	100.7
"A	8.5	100.9
M	8.5	100.9
"A	9.3	100.1
crk	10.0	99.4
E	9.7	99.7

N curb

E	9.5	99.9
crk	9.9	99.5
"A	8.9	100.5
M	8.3	101.1
"A	8.3	101.1
crk	8.6	100.9
W	7.6	101.9

N.L. Emerald AIC

55

W	7.1	102.4
crk	7.3	102.2
+1	8.1	101.3
"A	7.8	101.6
M	8.2	101.3
"A	9.0	100.4
+9	9.7	99.7
crk	9.1	100.3
E	9.1	100.3

0 + 25 N. of Emerald

E	8.7	100.7
crk	9.1	100.4
+1	9.4	100.1
"A	8.8	100.6
M	7.8	101.6
"A	7.6	101.8
+9	7.9	101.5
crk	7.0	102.4
W	6.7	102.7

109.35

0+50

W		6.4	103.0
crk		6.6	102.8
+1		7.4	102.1
"4		7.2	102.2
M		7.5	101.9
"4		8.5	100.9
+9		9.1	100.4
crk		8.4	101.0
E		8.4	101.2

0+75

E	X	7.6	101.8
crk		8.0	101.4
+1		8.3	101.1
"4		8.0	101.4
M		7.2	102.2
"4		6.8	102.6
+9		6.7	102.7
crk		6.2	103.2
W		6.1	103.3

56

1+0

W		5.8	103.6
crk		5.9	103.5
+1		6.3	103.1
"4		6.5	102.9
M		6.7	102.7
"4		7.5	101.9
+9		7.8	101.6
crk		7.5	101.9
E		7.3	102.1

1+25

E		6.8	102.6
crk		7.1	102.3
+1		7.4	102.1
"4		6.9	102.5
M		6.3	103.1
"4		6.1	103.3
+9		6.0	103.4
crk		5.4	104.0
W		5.3	104.1

Note - Curb & sidewalk Laid on E. side of
Lament from sta 1+45 To Diamond.

109.35
1+45

W	5.0	104.4
crb	5.2	104.2
+ 1	5.7	103.7
"4	5.6	103.8
M	5.8	103.6
"4	6.5	102.9
gutter	7.0	102.4
curb	6.55	
E	6.4	

1+75

POSTED

E	5.6	
crb	6.00	
gutter	6.7	102.8
"4	6.0	103.4
M	5.4	104.0
"4	5.2	104.2
+ 9	5.3	104.1
crb	4.7	104.7
W	4.6	104.8

2+0

51

W	4.3	105.1
crb	4.2	105.3
+ 1	5.0	104.4
"4	4.8	104.6
M	4.9	104.5
"4	5.6	103.8
gutter	6.3	103.1
crb	5.52	
E	5.1	

2+25

E	4.5	
crb	5.09	
gutter	5.9	103.5
"4	5.0	104.4
M	4.3	105.1
"4	4.4	105.0
+ 9	4.7	104.7
crb	3.8	105.6
W	3.9	105.5

109.35

2+50

W	3.5	105.9
crk	3.5	105.9
+ 1	4.4	105.0
1/4	4.0	105.4
M	4.0	105.4
1/4	4.7	104.7
gutter	5.5	103.9
crk	4.65	
E	4.1	105.3

2+70 = S.E. Diamond St

E	3.9	105.5
crk	4.28	105.07
gutter	5.2	104.2
1/4	4.4	105.0
M	3.8	105.6
1/4	3.8	105.6
+ 9	4.1	105.3
crk	3.3	106.1
W	3.1	106.3

1/2 Hatcher
 1/2 Moore
 1/2 Thomas
 sec. 2^d St. from 20'
 Lewis to Stockton
 Curbs
 10' 1/2 SW Crs.

NE Curb	2 ^d Washington	296.63					
Bm	5.80	292.83	285.03			50' N	
TP	9.50	296.63	270	287.13	E		7.2 289.4
	N. Lewis St.				cl		7.8 288.8
E			7.2	289.4	1/2		7.9 288.7
cb			8.2	288.4	c		8.1 288.5
1/2	POSTED		5.2	288.4	1/2		8.0 288.6
c			8.3	288.3	cb		8.1 288.5
1/2			8.2	288.4	W		7.9 288.7
cb			8.6	288.0			75' N
W			8.0	288.6	W		7.7 288.9
	50' N.				cb		8.0 288.6
W			7.8	288.8	1/2		7.8 288.8
cb			8.4	288.2	c		7.7 288.9
1/2			8.3	288.3	1/2		7.5 289.1
c			8.4	288.2	cl		7.6 289.0
1/2			8.4	288.2	E		6.9 289.7
cb			8.2	288.4			
E			7.3	289.3			

29663

100' N

E	6.8	289.8
cb	7.3	289.3
1/4	7.3	289.3
c	7.4	289.2
1/4	7.3	289.3
cb	7.5	289.1
W	7.3	289.3

125' N

W	7.1	289.5
cb	7.2	289.4
1/4	7.0	289.6
c	7.2	289.4
1/4	7.0	289.6
cb	6.9	289.7
E	6.4	290.2

29663

150' N

E	6.8	290.8
cb	6.7	289.9
1/4	6.8	289.8
c	6.9	289.7
1/4	6.9	289.7
cb	6.5	289.8
W	6.4	290.2

175' N

W	6.1	290.5
cb	6.5	290.1
1/4	6.7	289.9
c	6.3	290.3
1/4	6.3	290.3
cb	6.3	290.3
E	5.4	291.2

296.63

200 N

E	5.3	291.3
cb	5.5	291.1
1/4	6.3	290.3
c	6.1	290.5
1/4	6.2	290.4
cb	6.4	290.2
W	6.2	290.4

225 N

W	6.2	290.4
cb	6.4	290.2
1/4	6.1	290.5
c	6.0	290.6
1/4	5.4	291.2
cb	5.0	291.6
E	5.1	291.5

296.63

250 N

E	5.7	291.5
cb	5.3	291.3
1/4	5.5	291.1
c	6.1	290.5
1/4	5.9	290.7
cb	5.8	290.8
W	6.3	290.3

275 N

W	6.6	290.0
cb	6.1	290.5
1/4	5.7	290.9
c	5.8	290.8
1/4	5.4	291.2
cb	5.3	291.3
E	4.7	291.9

29663

500' N = St. Broadway

E	4.8	291.8
cb	5.1	291.5
1/2	5.3	291.3
c	5.6	291.0
1/4	5.3	291.3
cb	5.5	291.1
W	6.4	290.2

500' Broadway

W	6.0	290.6
cb	5.0	291.6
1/2	5.1	291.5
c	5.2	291.4
1/4	5.3	291.3
cb	5.1	291.5
E	4.6	292.0

29663

5 1/4 Broadway

E	4.6	292.0
cb	4.9	291.7
1/2	5.1	291.5
c	5.2	291.4
1/4	5.1	291.5
cb	4.9	291.7
W	5.8	291.8

Cr Broadway

W	5.7	290.9
cb	5.1	291.5
1/2	4.9	291.7
c	5.1	291.5
1/4	5.1	291.5
cb	5.0	291.6
E	4.8	291.8

29663

N 1/4 Broadway

E	4.3	292.3
cb	4.9	291.7
1/4	5.0	291.6
c	5.2	291.4
1/4	5.0	291.6
cb	5.1	291.5
W	5.9	290.7

N of Broadway

W	5.9	290.7
cb	5.3	291.3
1/4	4.9	291.7
c	5.1	291.5
1/4	5.0	291.6
cb	4.8	291.8
E	4.6	292.0

29663

N1 Broadway

E	4.7	292.5
cb	4.6	292.0
1/4	4.6	292.0
c	4.8	291.8
1/4	4.9	291.7
cb	5.3	291.3
W	5.5	291.1

POSTED

S of N

W	5.0	291.6
cb	4.8	291.8
1/4	4.6	292.0
c	4.8	291.8
1/4	4.3	292.3
cb	4.3	292.3
E	5.4	291.2

29663
50' N.

E	4.8	291.8
cb	4.8	291.8
1/2	4.8	291.8
c	4.8	291.8
1/2	4.4	292.2
cb	4.6	292.0
W	4.6	292.0

75' N.

W	4.3	292.3
cb	4.6	292.0
1/2	4.5	292.1
c	4.9	291.7
1/2	4.9	291.7
cb	5.4	291.2
E	5.6	291.0

29663
100' N.

E	6.6	290.0
cb	5.2	291.4
1/2	4.9	291.7
c	4.7	291.9
1/2	4.5	292.1
cb	4.3	292.3
W	4.2	292.4

125' N.

W	4.1	292.5
cb	4.9	291.7
1/2	5.0	291.6
c	5.6	291.0
1/2	5.6	291.0
cb	5.9	290.7
E	6.8	289.8

POSTED

60

29663

150' N

E	4.9	291.7
cb	6.1	290.5
1/4	6.5	290.1
c	6.0	290.6
1/4	5.7	291.2
cb	4.9	291.7
W	5.6	291.0

175' N

W	5.7	290.9
cb	6.2	290.4
1/4	6.7	289.9
c	7.1	289.5
1/4	7.0	289.6
cb	7.1	289.5
E	6.7	289.9

65

29663

200' N

E	7.1	289.5
cb	7.3	289.3
1/4	7.3	289.3
c	7.0	289.6
1/4	6.8	289.8
cb	6.9	289.7
W	5.7	290.9

225' N

W	6.1	290.5
cb	7.0	289.6
1/4	6.9	289.7
c	7.1	289.5
1/4	7.3	289.3
cb	7.4	289.2
E	7.0	289.6

296.63

250' N

E	6.8	289.8
ab	7.4	289.2
1/2	7.3	289.3
c	7.2	289.4
1/4	7.0	289.6
cb	7.2	289.4
W	6.6	290.0

270' N

W	7.2	289.4
cb	7.3	289.3
1/2	7.1	289.5
c	7.1	289.5
1/4	7.3	289.3
cb	7.5	289.1
E	7.0	289.6

296.63

 50' West = 294
 50' East = 300

Sh. Stackton

E	6.6	290.0
cb	7.1	289.5
1/2	7.0	289.6
c	6.9	289.7
1/4	7.2	289.4
cb	7.3	289.3
W	7.2	289.4

3 Sh. Stackton

W	7.2	289.4
cb	6.9	289.7
1/2	7.1	289.5
c	7.0	289.6
1/4	6.9	289.7
cb	6.7	289.9
E	6.6	290.0

66

296.63

5 1/2 Stockton

E		6.6	290.0
cb		6.6	290.0
1/2		6.9	289.7
e	290	6.9	289.7
1/2	300	6.8	289.8
cb		6.6	290.0
w		6.9	289.7

POSTED

or Stockton

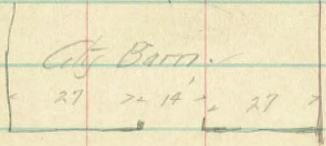
w		6.9	289.7
cb		6.5	290.1
1/2		6.6	290.0
e		6.5	290.1
1/2		6.5	290.1
cb		6.3	290.3
E		6.4	290.2

5 feet
29 More
09 times
Levels at City Barn on Pth St.

SW 20th D.

B.M.	286	97.70	94.84
	0.09	87.98	981 87.89
	0.76	75.84	12.90 75.08
ground at SE Cor. Barn		115.6	64.28
top of foundation at SE Cor. "		112.3	64.61
Threshold -		12.30	63.54
top wall SW Cor "		12.70	63.14
ground " " "		18.60	62.24

POth D



B St.

20th St

38
26
09
H. H. H. H.
More
Thomas

Profile on E Rail of W. Track.
Adams to El Cajon

Park Blvd - Madison

100	542	357.22	351.80	150	303	348.82	
End of Track	N. of Sh. Adams	2.50	354.72	200	372	348.13	
51 Adams		2.24	354.98	350	440	347.45	
50 's		2.28	354.94	300	508	346.77	
100		2.64	354.58	350	542	346.23	
150		2.86	354.36	400	574	346.11	
200	PO - D	3.18	354.04	450	604	345.81	
250		3.51	353.71	500	626	345.59	
300		3.75	353.47	550	657	345.28	
350		4.08	353.14	600	685	345.00	
400		4.58	352.64	650	700	344.85	
450		5.12	352.10	700	725	344.60	
467	N.L. Madison	5.35	351.87	750	757	344.47	
Cr.	"	5.72	351.50	800	785	344.19	
51	"	6.30	350.92	850	810	344.07	
50	164	351.85	701	350.21	900	836	343.86
100		2.36	349.49	950	878	343.69	

351.85

POSTED

347.47

300		398	343.49
350		413	343.34
400		435	343.12
450		454	342.93
500		471	342.76
550		492	342.55
600	NL Meade	511	342.36
Or	"	600	341.43
SL	550	346.21	676 340.71
50		495	341.26
82		433	341.88
100		436	341.85
150		450	341.71
200		461	341.60
250		473	341.48
300		483	341.38
350		498	341.23
400		476	341.45

346.21

450	about P.C.	438	341.83
500		396	342.25
550		353	342.68
600	NL El Cajon	215	343.06

POSTED

5797

27.5' E of brushy st

S		79	50.1
H		85	
L		112	46.8
Y		99	
N		97	48.3

52.5' E of brushy

N		95	48.5
H		99	
L	74 77	110 99 96	48.4
Y		86	
S		68	51.2

77.5' E of brushy

S		57	52.3
Y		82	
L		94	48.6
Y	78	96 110	
N		94	48.6

5797

Ruebloff

72

102.5' E of brushy st

N ⁷⁵		82	49.1
H		96	
		113	
L ⁷²		90	49.0
Y		90	
S		46	53.4

7 27.5' E of brushy

S		44	53.6
Y		72	
L		85	49.5
Y		91	
N		90	49.0

152.5' E of brushy st

N		87	49.3
Y		87	
L		80	50.0
Y		67	
S		53	52.7

57.97

1775' E of brush st

5	4.3	53.7
4	5.3	
6	6.8	51.2
7	8.2	
9	8.2	49.8

2025' E of brush

2	7.8	50.2
4	7.4	
6	5.3	52.7
7	4.4	
8	4.2	53.8

2275' E of brush

5	4.1	53.9
7	3.9	
6	4.0	54.0
7	5.8	
m	7.1	50.9

57.97

2525' E of brush

2	5.7	52.3
7	5.0	
6	4.9	53.1
7	4.8	
8	3.1	54.9

2775' E of brush

5	4.0	54.0
7	5.0	
6	5.5	52.5
7	5.7	
9	4.9	53.1

TP 6.23 6.60 1.60 56.37

Pueblito

73

62.60

3025' E = S. d. of Grant on n

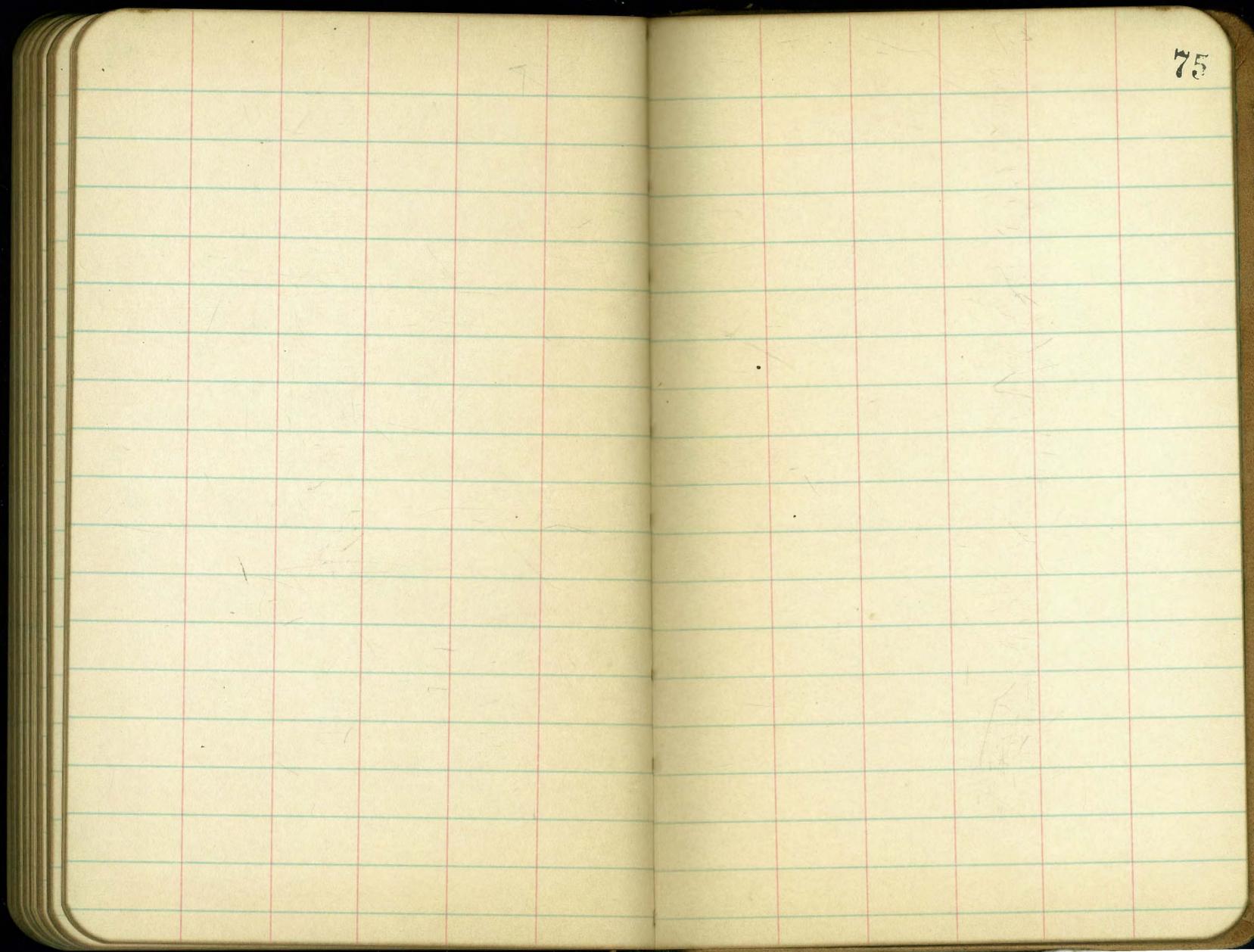
n		6.0	56.6
	76'	9.3	
y		9.5	
6		8.5	54.1
y		7.6	
S		6.5	56.1

62' { 2960' E on n
3415' E on S d }

8		1.5	61.1
y		5.3	
8		6.2	56.4
y		8.5	
w		8.0	54.6

62' { 3490' E on S
3025' E on n } = S. d. of Grant st

E		0.2	62.4
y		2.0	
6		3.4	59.2
y		4.7	
w		6.0	56.6



75

#400

125.60
 25.12
 70.60
 89.4
 988.467
 74968
 8
 24.75
 12.75
 37.50
 6.2
 15.5
 117.3
 66.0
 60.8
 15.8
 12

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.		½ DEGREE.		¼ DEGREE.		¼ 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.	DEGREES.		½ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.