City Engineers Office
City Hall, San Diego, Cal.

400

F.B. 376

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

MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135½
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

MICROFILMED DEC 1 1964

TABLE FOR RUNNING ON SLOPES.

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

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

Crocker Quality

LEVEL BOOK

No. 400

F.B. 376

COMMUNI CONSENSI PRIMO

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

X-section 19th St from "N" St To N.L. Manassee Schillers Add.
" 80' wide

19/27/09 - Dunkle Shaw Dizel

B.M. R.R. SPK N.E. 19th & "N" sts. 32.99

B.M. 1.22 34.21

S.L. "N" St

W			5.3	28.9
Crb			5.2	29.0
1/4			4.8	29.4
M			4.4	29.8
1/4			4.2	30.0
Crb			3.9	30.3
E			3.8	30.4
		0+25 S		
E			4.1	30.1
Crb			4.9	29.3
1/4			5.5	28.7
M			5.7	28.5
1/4			5.9	28.3
Crb			6.5	27.7
W			5.2	29.0

34.21

0+50

W		9.9	24.8
crk		9.8	24.4
"4		9.4	24.8
M		9.1	25.1
+7		9.3	24.9
"4		7.8	26.4
crk		7.2	27.0
E.		7.2	27.0

0+55

E		7.8	26.4
crk		7.6	26.6
"4		8.4	25.8
M		10.0	24.2
"4		10.2	24.0
crk		10.5	23.7
W		10.7	23.5

34.21

0+70

W		11.9	22.3
crk		12.1	22.1
"4		12.1	22.1
M		11.4	22.8
+5		13.2	21.0
"4		14.0	20.2
crk		13.6	20.6
E		14.2	20.0

0+75

E		14.1	20.1
crk		13.7	20.5
"4		14.0	20.2
+8		13.9	20.3
M		12.8	21.4
"4		13.1	21.1
crk		12.6	21.6
W		12.6	21.6
T.P.	6.69	28.22	12.68	21.53

28.22

1+0

N			8.7	19.5
Crb			9.3	18.9
"A			8.9	19.3
M			9.0	19.2
"A			8.9	19.3
Crb			9.0	19.2
E			8.3	19.9

1+27.87 on E & 1+28.13 = X-sec "A" of N.L. of M.&S. Add. see page 4

E			7.4	20.8
Crb			8.2	20.0
"A			8.9	19.3
M			8.8	19.4
"A			9.7	18.5
Crb			9.3	18.9
N			10.5	17.7

X-sec Sigsbee N.L. M.&S. Add. To Railroad Ave
" 60' Wide

28.22

X-sec "B" Page 4 of N.L. M.&S. Add.

12/27/09

Dunkle
Shaw
Dezeil

N			9.2	19.0
Crb			9.8	18.4
"A			9.0	19.2
M			8.8	19.4
"A			8.3	19.9
Crb			7.5	20.7
S			6.0	22.2

X-sec "C"

S			8.4	19.8
Crb			9.0	19.2
"A			9.1	19.1
M			8.7	19.5
"A			9.6	18.6
Crb			10.3	17.9
N			9.2	19.0

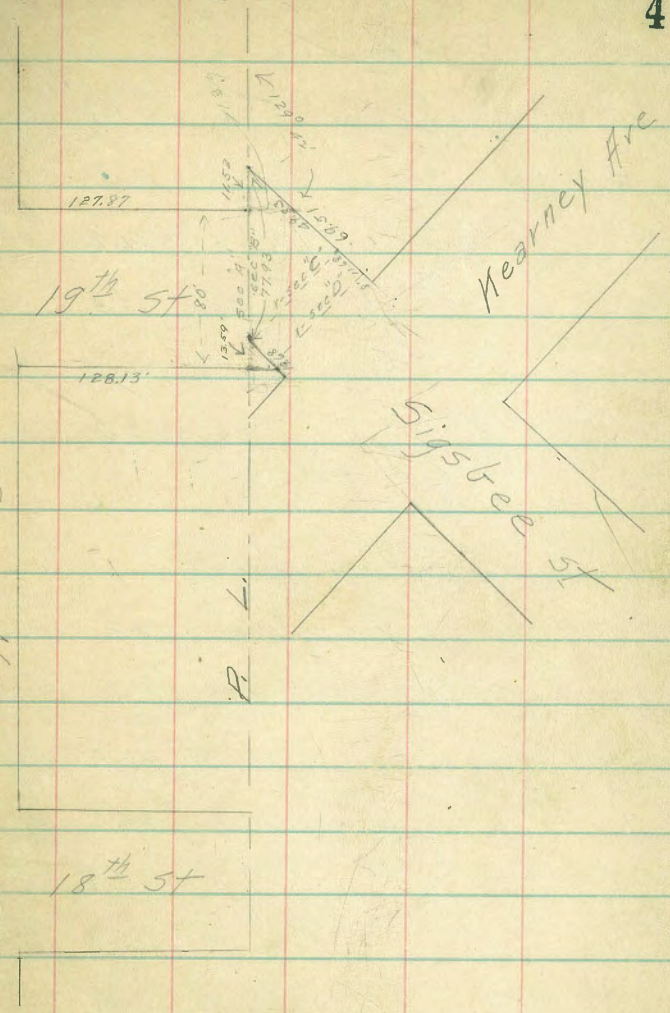
28.22

1-Sec "D"

N	10.6	17.6
crb	10.2	18.0
"	9.4	18.8
N	8.8	19.4
"	8.5	19.7
crb	8.6	19.6
S	8.4	19.8

E.L. Kearney graded

S	4.3	23.9
crb	4.7	23.5
gtr	5.2	23.0
"	4.8	23.4
N	4.4	23.6
"	5.1	23.1
gtr	5.7	22.3
crb	5.1	23.1
N	4.6	23.6



28.22

N.L. Kearney

N	6.3	21.9
crk	6.7	21.5
gtr	7.3	20.9
"4	6.3	21.9
M	5.8	22.4
"4	6.1	22.1
gtr	6.1	22.1
crk	5.5	22.7
S	5.1	23.1

0+08 W. of Kearney

S	9.0	19.2
crk	9.3	18.9
+8	9.1	19.1
"4	7.7	20.5
M	7.6	20.6
+3	9.6	18.6
"4	10.0	18.2
crk	10.3	17.9
N.	10.3	17.9

28.22

0+25

N	10.6	17.6
crk	10.6	17.6
"4	10.1	18.1
M	9.9	18.3
"4	9.7	18.5
crk	10.0	18.2
S	9.3	18.9

0+50

S	8.4	19.8
crk	9.5	18.7
"4	10.2	18.0
M	10.3	17.9
"4	10.7	17.5
crk	10.7	17.5
N	10.9	17.3

28.22

0+75

N	11.2	17.0
crb	10.8	17.4
"q	10.5	17.7
M	10.0	18.2
"q	9.9	18.3
crb	8.7	19.5
S	6.4	21.8

1+00

S	5.6	22.6
crb	7.5	20.7
"q	9.3	18.9
M	9.4	18.8
"q	9.5	18.7
crb	9.4	18.8
N	9.9	18.3

28.22

1+25

N	10.2	18.0
crb	8.4	19.8
"q	7.0	20.2
M	6.9	21.3
"q	6.4	21.8
crb	5.7	23.0
S	3.9	24.3

1+50

S	0.8	27.4
crb	2.1	26.1
"q	3.8	24.4
M	4.8	23.4
"q	6.7	21.5
crb	7.0	21.2
N	9.4	18.8

		28.24		
		1+75		
N			6.5	21.7
crb			5.6	22.6
"4			4.0	24.2
M			2.6	25.6
"4			2.0	26.2
crb			1.2	27.0
S			0.2	28.0
T.P.	8.54	35.84	0.92	27.30
		2+0		
S			6.9	28.9
crb			7.5	28.3
"4			8.5	27.3
M			8.7	27.1
+ 6			9.0	26.8
"4			10.6	25.2
crb			12.2	23.6
N			12.8	23.0

		35.84		
		2+25		
N			10.8	25.0
crb			10.4	25.4
"4			9.4	26.4
+ 5			8.0	27.8
M			8.2	27.6
"4			8.0	27.8
crb			7.6	28.2
S			5.4	30.4
		2+50		
S			2.0	33.8
+ 2			2.3	33.5
+ 3			3.3	32.5
Crb			5.1	30.7
"4			6.3	29.5
M			7.1	28.7
+ 6			6.8	29.0
"4			7.5	28.3
crb			8.4	27.4
N			9.0	26.8

35.84

2+75

N	7.5	28.3
Crk	7.2	28.6
1/4	6.5	29.3
+5	5.6	30.2
N	5.6	30.2
1/4	5.1	30.7
Crk	4.5	31.3
+5	3.6	32.2
+7	2.0	33.8
S	1.5	34.3

340 = E.L. Logan Paved

S	1.9	33.9
+4	2.1	33.7
+8	4.8	31.0
Crk	5.1	30.7
1/4	6.0	29.8
N	6.4	29.4
1/4	6.6	29.2
Crk	7.0	28.8
N	7.1	28.7

35.84

W.L. Logan

N	5.7	30.1
Crk	5.6	30.2
+5	7.0	28.8
1/4	6.8	29.0
N	6.6	29.2
1/4	6.4	29.4
Crk	6.3	29.5
S	5.9	29.9

8+25 N

S	3.3	32.5
+7	4.5	31.3
Crk	5.1	30.7
+3	6.2	29.6
1/4	6.1	29.7
N	6.2	29.6
1/4	6.6	29.2
+5	6.6	29.2
+6	5.2	30.6
Crk	5.4	30.4
N	5.2	30.6

35.84

0+50

N	5.7	30.1
crk	5.7	30.1
+3	6.0	29.8
+5	6.7	29.1
"4	6.6	29.2
M	6.3	29.5
"A	6.4	29.4
+6	6.6	29.2
crk	5.8	30.0
+6	5.2	30.6
S	3.5	32.3

0+75

S	4.4	31.4
+2	4.6	31.2
+4	5.7	30.1
crk	6.1	29.7
+4	6.9	28.9
"4	6.6	29.2
M	6.5	29.3
"A	6.9	28.9
+6	7.1	28.7
+8	6.7	29.1
crk	6.6	29.2
N	6.0	29.8

35.84

1+0

N	6.9	28.9
crk	7.3	28.5
+3	7.3	28.5
+4	7.6	28.2
"4	7.0	28.8
M	6.8	29.0
"A	6.9	28.9
+5	7.0	28.8
+6	6.6	29.2
crk	6.2	29.6
+6	5.8	30.0
+8	5.0	30.8
S	4.6	31.2

1+25

S	4.9	30.9
+2	6.1	29.7
crk	6.7	29.1
+3	7.0	28.8
+4	7.5	28.3
"4	7.2	28.6
M	7.3	28.5
"4	7.5	28.3
+5	8.0	27.8
+6	7.5	28.3
crk	7.5	28.3
N	7.2	28.6
T.P.	1.62	30.12	7.34	28.50

30.12

1+50

N	2.2	27.9
Crb	2.2	27.9
+3	2.4	27.7
+4	2.6	27.5
"	2.4	27.7
N	2.0	28.1
"	2.0	28.1
+5	2.3	27.8
+6	1.8	28.3
Crb	1.6	28.5
+7	1.2	28.9
S	0.6	29.5

1+75

S	1.8	28.3
Crb	2.3	27.8
+4	2.4	27.7
+5	2.9	27.2
"	2.6	27.5
M	2.8	27.3
"	3.1	27.0
+5	3.1	27.0
+6	2.7	27.4
Crb	2.7	27.4
N	2.7	27.4

30.12

2+0

N	3.9	26.2
Crb	3.4	26.7
+5	3.6	26.5
+6	4.3	25.8
"	3.9	26.2
M	3.5	26.6
"	3.5	26.6
+5	3.9	26.2
+6	3.1	27.0
Crb	2.9	27.2
S	2.6	27.5

2+25

S	3.1	27.0
Crb	3.6	26.5
+5	3.9	26.2
+6	4.7	25.4
"	4.2	25.9
M	4.2	25.9
"	4.6	25.5
+5	4.9	25.2
+6	4.9	25.2
Crb	4.2	25.9
N	4.6	25.5

30.12

2+50

N	5.0	25.1
Cab	4.6	25.5
+4	4.8	25.3
+5	5.6	24.5
1/4	5.2	24.9
M	4.7	25.4
1/4	4.9	25.2
+3	5.1	25.0
+4	4.8	25.3
Cab	4.3	25.8
5	4.0	26.1

2+75

5	4.6	25.5
Cab	5.1	25.0
+5	5.3	24.8
+6	5.7	24.4
1/4	5.5	24.6
M	5.4	24.7
1/4	6.1	24.0
+4	6.4	23.7
+5	5.8	24.3
Cab	5.7	24.4
N	5.8	24.3

30.12

3+02 E.L. National Ave graded

N	5.7	24.4
Cab	5.3	24.8
+3	5.3	24.8
+5	6.8	23.3
1/4	6.6	23.5
M	6.1	24.0
1/4	5.9	24.2
+4	6.1	24.0
+5	5.8	24.3
Cab	5.7	24.4
5	5.5	24.6

W.L. National

5	6.0	24.1
Cab	6.7	23.4
+8	7.2	22.9
1/4	7.9	22.2
M	7.6	22.5
1/4	7.9	22.2
Cab	8.1	22.0
N	8.0	22.1

30.12

0+25 W

N	8.6	21.5
crk	8.3	21.8
"4	8.3	21.8
M	8.1	22.0
"4	8.4	21.7
+1	8.4	21.7
+2	7.4	22.7
crk	6.9	23.2
S	6.6	23.5

0+50

S	7.3	22.8
crk	7.5	22.6
+7	7.8	22.3
+8	8.7	21.4
"4	8.7	21.4
M	8.5	21.6
"4	8.7	21.4
crk	8.7	21.4
N	9.0	21.1

30.12

0+75

N	9.3	20.8
crk	9.2	20.9
"4	9.0	21.1
M	8.7	21.4
"4	9.3	20.8
+2	7.8	22.3
crk	7.3	22.8
S	7.0	23.1

1+0

S	7.3	22.8
crk	7.6	22.5
+9	8.3	21.8
"4	9.7	20.4
M	9.3	20.8
"4	9.6	20.5
crk	9.8	20.3
N	10.2	19.9

30.12

1+25

N	10.4	19.7
crb	10.2	19.9
1/4	10.0	20.1
M	9.5	20.3
1/4	9.9	20.2
+1	8.8	21.3
Crb	8.0	22.1
S	7.6	22.5

1+50

S	7.8	22.3
Crb	8.1	22.0
+9	8.8	21.3
1/4	10.4	19.7
M	10.3	19.8
1/4	10.6	19.5
Crb	10.7	19.4
N	10.9	19.2

30.12

1+75

N	12.1	18.0
crb	11.2	18.9
1/4	11.1	19.0
M	10.9	19.2
1/4	10.9	19.2
+1	10.0	20.1
crb	9.0	21.1
S	8.7	21.4

2+0

S	8.6	21.15
crb	9.4	20.7
+9	10.4	19.7
1/4	11.9	18.7
M	11.1	19.0
1/4	11.5	18.6
crb	11.9	18.2
N	11.4	18.7

	30.12		
	2+75		
N		12.6	17.5
Crk		12.2	17.9
11/9		11.8	18.3
N		11.6	18.5
11/9		11.8	18.3
+1		10.6	19.5
Crk		9.4	20.7
3		9.1	21.0
	2+50		
3		9.2	20.9
Crk		9.8	20.3
+9		10.3	19.8
11/9		12.2	17.9
N		12.0	18.1
11/9		12.0	18.1
Crk		12.5	17.6
N		12.5	17.6

	30.12		
	2+75		
N		12.7	17.4
Crk		12.4	17.7
11/9		12.4	17.7
N		12.9	17.7
+9		12.1	18.0
11/9		10.3	19.8
Crk		10.0	20.1
3		9.1	21.0
	3+0 = E.L. Newton - being graded.		
3		10.1	20.0
Crk		10.8	19.3
11/9		10.6	19.5
+1		12.8	17.3
N		12.8	17.3
11/9		13.0	17.1
Crk		12.9	17.2
N		13.3	16.8
T.P.	4.09	23.80	11.31	18.81

23.80

W.L. Newton

N	7.1	16.7
crb	7.0	16.8
1/4	7.2	16.6
M	7.0	16.8
+ 9	7.2	16.6
1/4	6.2	17.6
crb	5.1	18.7
5	5.1	18.7

0+25 W

5	5.6	18.2
crb	6.6	17.2
+ 8	6.6	17.2
1/4	7.3	16.5
M	6.9	16.9
1/4	7.1	16.7
crb	7.2	16.6
N	7.7	16.1

23.80

0+50

N	7.8	16.0
crb	7.5	16.3
1/4	7.2	16.6
M	7.0	16.8
1/4	7.8	16.0
+1	6.5	17.3
crb	6.1	17.7
5	5.6	18.2

0+75

5	5.2	18.6
crb	5.8	18.0
+9	6.2	17.6
1/4	7.8	16.0
M	7.1	16.7
1/4	7.4	16.4
crb	7.8	16.0
N	7.9	15.9

	23.80		
	1+00		
N		8.3	15.5
Crb		7.7	16.1
"4		7.4	16.4
M		7.3	16.5
"4		7.9	15.9
+1		6.3	17.5
Crb		5.4	18.4
S		5.2	18.6
	1+25		
S		5.0	18.8
Crb		5.2	18.6
+9		5.6	18.2
"4		7.9	15.9
M		7.4	16.4
"4		7.6	16.2
Crb		7.9	15.9
N		8.3	15.5

	23.80		
	1+50		
N		8.2	15.6
Crb		8.3	15.5
"4		7.8	16.0
M		7.7	16.1
"4		8.0	15.8
+1		6.4	17.4
Crb		5.6	18.2
S		4.7	19.1
	1+75		
S		4.8	19.0
Crb		5.3	18.5
+9		5.7	18.1
"4		8.6	15.2
M		8.1	15.7
"4		8.3	15.5
+8		8.5	15.3
Crb		8.0	15.8
N		9.3	14.5

	23.80		
	2+0		
N		9.7	14.1
+3		9.3	14.5
+5		8.1	15.7
crk		7.7	16.1
+3		7.9	15.9
+4		8.6	15.2
"4		8.5	15.3
M		8.2	15.6
"4		8.8	15.0
+2		5.5	18.3
crk		5.4	18.4
S		5.0	18.8
	2+25		
S		4.9	18.9
crk		5.0	18.8
+4		6.1	17.7
"4		9.3	14.5
M		8.5	15.3
"4		8.8	15.0
+5		9.1	14.7
+6		8.5	15.3
crk		8.3	15.5
N		8.7	15.1

	23.80		
	2+50		
N		9.1	14.7
crk		8.7	15.1
+5		8.8	15.0
+6		9.5	14.3
"4		9.3	14.5
M		9.1	14.7
"4		9.6	14.2
+1		6.8	17.0
crk		6.0	17.8
S		5.5	18.3
	2+75		
S		5.8	18.0
crk		6.5	17.3
+9		7.3	16.5
"4		10.0	13.8
M		9.9	13.9
"4		10.2	13.6
+3		10.2	13.6
+4		9.1	14.7
crk		9.3	14.5
N		9.3	14.5

		23.80		
		3+02 E.L. Main St graded		
N			9.8	14.0
Crk			9.0	14.8
+7			9.1	14.7
+8			11.2	12.6
½			11.1	12.7
M			10.6	13.2
½			11.0	12.8
+1			7.3	16.5
Crk			6.6	17.2
S			6.0	17.8
T.P.	3.13	15.83	14.10	12.70
		W.L. Main St		
S			2.7	13.1
Crk			2.4	13.4
½			3.3	12.5
N			3.2	12.6
½			3.6	12.2
+3			3.3	12.5
+5			1.8	14.0
Crk			1.7	14.1
N			1.6	14.2

		15.83		
		0+25 W		
N			2.1	13.7
Crk			2.0	13.8
½			3.0	12.8
M			2.8	13.0
½			3.2	12.6
Crk			2.7	13.1
S			3.1	12.7
		0+50		
S			3.2	12.6
Crk			3.0	12.8
½			3.1	12.7
M			2.9	12.9
½			3.2	12.6
Crk			2.7	13.1
N			2.6	13.2

		1583		
		0+75		
N			3.4	12.4
Crk			3.5	12.3
1/4			3.5	12.3
M			3.2	12.6
1/4			3.6	12.2
Crk			3.8	12.0
S			3.8	12.0
		1+0		
S			4.1	11.7
Crk			4.0	11.8
1/4			4.0	11.8
M			3.6	12.2
1/4			4.0	11.8
Crk			4.2	11.6
N			4.4	11.4

		1583		
		1+25		
N			4.8	11.0
Crk			4.5	11.3
1/4			4.6	11.2
M			4.5	11.3
1/4			4.8	11.0
Crk			4.7	11.1
S			4.8	11.0
		1+50		
S			5.7	10.1
Crk			5.6	10.2
1/4			5.7	10.1
M			5.6	10.2
1/4			5.6	10.2
Crk			4.9	10.9
N			5.9	10.9

		15.83		
		1+75		
N			6.5	9.3
crb			6.5	9.3
1/4			6.5	9.3
M			6.3	9.5
1/4			6.5	9.3
crb			6.4	9.4
S			6.5	9.3
		2+0		
S			7.0	8.8
crb			7.0	8.8
1/4			7.0	8.8
M			7.0	8.8
1/4			7.2	8.6
crb			7.3	8.5
N			7.7	8.1

		15.83		
		2+25		
N			8.5	7.3
crb			8.4	7.4
1/4			7.2	8.6
M			7.0	8.8
1/4			7.1	8.7
crb			7.9	7.9
S			8.0	7.8
	2+28 = E. rail S.D.&A.R.R.			
S			6.9	8.9
crb			6.9	8.9
1/4			6.9	8.9
M			6.9	8.9
1/4			7.0	8.8
crb			7.2	8.6
N			7.4	8.4

15.83

2+38

N	8.3	7.5
Crb	8.2	7.6
"9	7.0	8.8
M	7.1	8.7
"9	7.3	8.5
Crb	8.3	7.5
S	7.8	8.0

2+50

S	5.3	10.5
Crb	9.9	10.9
"9	7.4	8.4
M	7.0	8.8
"9	7.3	8.5
Crb	7.2	8.6
N	8.0	7.8

15.83

2+75

N	8.1	7.7
Crb	7.8	8.0
"9	8.0	7.8
M	7.7	8.1
"9	7.8	8.0
Crb	5.9	9.9
S	6.1	9.7

3+0 = E. L. Pierce Ave 80' wide

S	7.4	8.4
Crb	8.1	7.7
"9	8.6	7.2
M	8.5	7.3
"9	8.8	7.0
Crb	8.5	7.3
N	8.9	6.9

15.83

E. Curb

N	9.6	6.2
Crb	9.0	6.8
"4	9.3	6.5
M	9.0	6.8
"4	9.2	6.6
Crb	8.5	7.3
S	8.6	7.2

E "4

S	9.1	6.7
Crb	9.2	6.6
"4	9.7	6.1
M	9.6	6.2
"4	9.7	6.1
Crb	9.8	6.0
N	10.6	5.2

15.83

Center

N	11.3	4.5
Crb	10.7	5.1
"4	10.3	5.5
M	9.8	6.0
"4	9.4	6.4
Crb	9.2	6.6
S	9.2	6.6

W "4

S	9.2	6.6
Crb	9.5	6.3
"4	10.2	5.6
M	10.6	5.2
"4	11.0	4.8
Crb	11.8	4.0
N	12.1	3.7

15.83

W. curb

N			12.7	3.1
curb			12.1	3.7
"A			11.8	4.0
N			11.3	4.5
"A			10.5	5.3
curb			10.2	5.6
S			10.0	5.8

W. L. Pierce

S			10.7	5.1
curb			10.9	4.9
"A			11.3	4.5
N			11.9	3.9
"A			12.1	3.7
curb			12.6	3.2
N			13.3	2.5

15.83

0+25 W

N			13.6	2.2
curb			13.0	2.8
"A			12.6	3.2
N			12.2	3.6
"A			11.7	4.1
curb			11.1	4.7
S			10.9	4.9

0+50

S			11.4	4.4
curb			11.9	3.9
"A			12.2	3.6
N			12.6	3.2
"A			13.3	2.5
curb			13.5	2.3
N			14.0	1.8
T.P.	5.26	8.93	12.16	3.67

8.93

0+78 - Point where N.L. Sigsbee's Sewer intersect

N.L. Top of 15" sewer	5.4	3.5
+ 5	7.2	1.7
crk	7.1	1.8
"/4	6.5	2.4
M	6.0	2.9
"/4	5.7	3.2
crk	5.3	3.6
S	4.5	4.4
1+0		
S	4.4	4.5
crk	5.3	3.6
"/4	5.6	3.3
M	5.5	3.4
"/4	4.3	4.6
crk	6.5	2.4
N	7.5	1.4

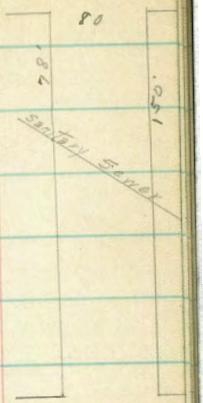
8.93

1+25

N	7.5	1.4
crk	6.8	2.1
"/4	6.1	2.8
M	5.4	3.5
"/4	4.9	4.0
crk	5.0	3.9
S	4.7	4.2

1+50 - Point where S.L. Sigsbee's Sewer intersect

S.L. Top 15" sewer	5.6	3.3
S.L. Top Manhole	2.10	6.8
crk	5.1	3.8
"/4	5.4	3.5
M	5.7	3.2
"/4	6.1	2.8
crk	7.4	1.5
N	7.8	1.1



8.93

1+75

N	8.1	0.8
Crb	7.3	1.6
1/4	6.6	2.3
M	5.6	3.3
1/4	5.7	3.2
Crb	5.1	3.8
S	4.8	4.1

2+00

S	5.9	3.0
Crb	6.2	2.7
1/4	6.5	2.4
M	6.8	2.1
1/4	7.5	1.4
Crb	8.1	0.8
N	8.5	0.4

8.93

2+25

N	9.3	−0.4
Crb	8.8	0.1
1/4	8.7	0.2
M	8.2	0.7
1/4	7.5	1.4
Crb	7.2	1.7
S	6.9	2.0

2+50

S	7.8	1.1
Crb	8.2	0.7
1/4	8.8	0.1
M	9.1	−0.2
1/4	9.5	−0.6
Crb	9.7	−0.8
N	9.8	−0.9

8.93

2+75

N			10.5	−1.6
crb			10.1	−1.2
1/4			9.6	−0.7
M			9.4	−0.5
1/4			9.0	−0.1
crb			8.5	0.4
S			8.2	0.7

3+0 = E.L. Railroad Ave 80'

S			8.6	0.3
crb			8.8	0.1
1/4			9.4	−0.5
M			9.5	−0.6
1/4			10.2	−1.3
crb			10.4	−1.5
N			10.5	−1.6

8.93

E. Curb

N			10.4	−1.5
crb			10.5	−1.6
1/4			10.4	−1.5
M			9.8	−0.9
1/4			9.4	−0.5
crb			9.1	−0.2
S			8.7	0.2

E 1/4

S			8.8	0.1
crb			9.1	−0.1
1/4			9.3	−0.4
M			9.8	−0.9
1/4			10.3	−1.4
crb			10.3	−1.4
N			10.5	−1.6

8.93

Center

N	10.5	−1.6
Crk	10.4	−1.5
¼	10.2	−1.3
M	10.1	−1.2
¼	9.4	−0.6
Crk	8.9	0.0
S	8.5	0.4

W ¼

S	8.5	0.4
Crk	9.0	−0.1
¼	9.4	−0.5
M	9.7	−0.8
¼	10.1	−1.1
Crk	10.5	−1.6
N	10.6	−1.7

8.93

W. Cor.

N	10.5	−1.6
Crk	10.3	−1.4
¼	9.8	−0.9
M	9.3	−0.4
¼	8.8	0.1
Crk	9.0	−0.1
S	8.8	0.1

W. L. R. R. Brs.

S	8.6	0.3
Crk	8.2	0.7
¼	8.8	0.1
M	8.4	0.5
¼	9.0	−0.1
Crk	9.8	−0.9
N	10.5	−1.6

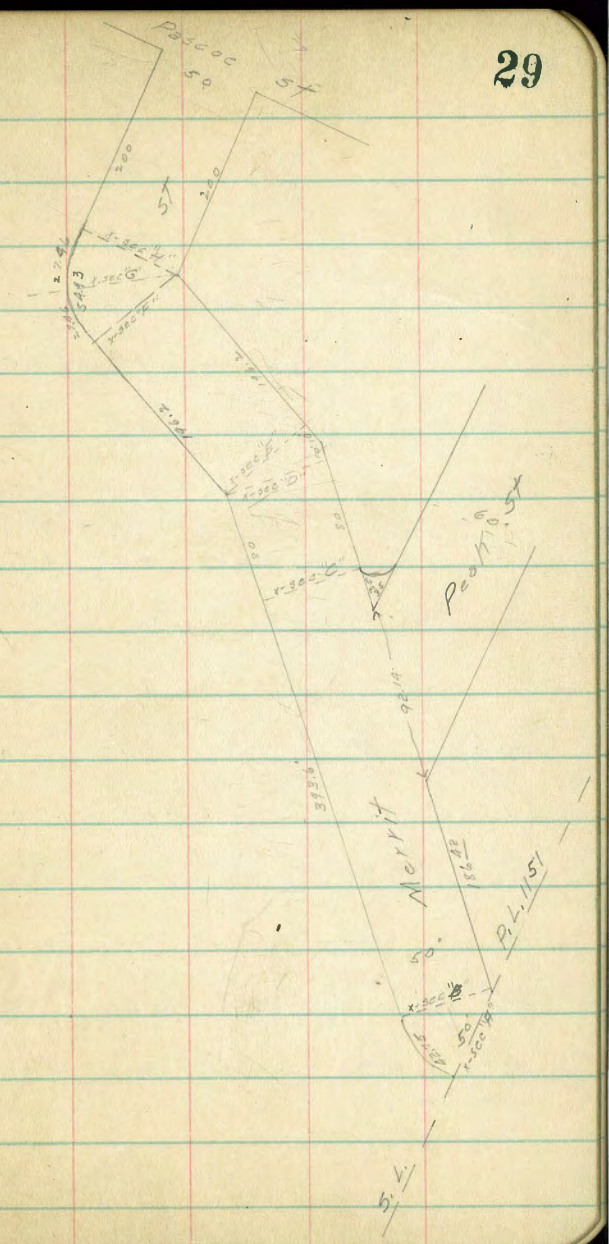
x-section Merritt St from S.L. P.L. 1151 to Pascoe St Dunkle
" 50' wide 12/29/29 Shaw
on cemetery road
B.M. brass plg. Con. Mon. 300' S.E. of bridge 30.07 Dezeil

B.M.	12.95	43.02		
T.P.	12.97	55.81	0.18	42.84
T.P.	12.42	67.71	0.52	55.29
T.P.	12.41	79.89	0.23	67.48
T.P.	12.45	92.25	0.09	79.80
T.P.	12.83	104.98	0.10	92.15
T.P.	12.17	116.60	0.55	104.43
T.P.	10.36	126.72	0.24	116.36
T.P.	9.90	124.17	12.45	114.27
		124.17		

x-sec "A" or S.L. P.L. 1151

E			8.9	115.3
Crb			8.8	115.4
1/4			8.8	115.4
M			9.0	115.2
1/4			9.1	115.1
Crb			9.2	115.0
W			8.9	115.2

Plotted 6/1911



124.17

X-Sec "B"

W	9.7	114.5
Crb	10.0	114.2
"/4	9.4	114.8
M	8.6	115.6
"/4	8.3	115.9
Crb	8.5	115.7
E.	8.9	115.3

0+25 N of "B"

E	9.1	115.1
Crb	9.7	114.5
"/4	10.0	114.2
M	10.4	113.8
"/4	11.3	112.9
Crb	12.1	112.1
W	12.0	112.2

124.17

0+50

W	14.5	109.7
Crb	12.9	111.5
"/4	11.2	113.0
M	10.6	113.5
"/4	10.3	113.9
Crb	10.3	113.9
+1	9.5	114.4
E	9.3	114.9

0+75

E	8.8	115.4
+9	9.3	114.9
Crb	9.9	114.3
"/4	9.7	114.5
M	9.4	114.8
"/4	10.1	114.1
Crb	12.4	111.8
W	14.5	109.7

	124.17		
	1+0		
W	10.1	114.1	
crb	9.5	114.7	
"9	8.8	115.4	
M	8.4	115.8	
"9	8.5	115.7	
crb	8.7	115.5	
+1	8.0	116.2	
E	7.2	117.0	
	1+25		
E	4.8	119.4	
crb	6.0	118.2	
+1	6.9	117.3	
"9	6.7	117.5	
~~M crb~~	7.0	117.2	
"9	7.6	116.6	
crb	8.2	116.0	
W	8.8	115.4	

	124.17			
	1+50			
W		7.7	117.0	
crb		6.3	117.9	
"9		5.7	118.5	
M		5.1	119.1	
"9		4.9	119.3	
+7		5.0	119.2	
crb		3.7	120.5	
E		2.6	121.6	
	1+86.4 = 5.2, Peak St			see plot Page 29
E		0.7	123.5	
+9		1.5	122.7	
crb		2.5	121.7	
"9		2.8	121.4	
M		3.2	121.0	
"9		4.2	120.0	
crb		5.3	118.9	
W		6.4	117.8	
T.P.	7.62	131.09	0.70	123.47

Hub & P.K. & Merrit

131.09

S. curb

~~W~~	12.9	118.2
crb	12.1	119.0
″4	10.8	120.3
M	10.2	120.9
″4	9.5	121.6
crb	8.8	122.3
E	7.7	123.4

S ″4

E	6.9	124.2
crb	8.7	122.4
″4	9.5	121.6
M	9.8	121.3
″4	10.7	120.4
crb	12.0	119.1
W	12.9	118.2

131.09

Center

W	13.0	118.1
crb	11.7	119.4
″4	10.3	120.8
M	9.5	121.6
″4	9.1	122.0
crb	8.7	122.4
E	6.8	124.3

N ″4

E	6.9	124.2
+8	7.4	123.7
crb	8.7	122.4
″4	9.0	122.1
M	9.5	121.6
″4	10.4	120.7
crb	11.6	119.5
W	12.7	118.4

131.09

N. COPL

W	12.6	118.5
crb	11.5	119.6
1/4	10.2	120.9
M	9.3	121.8
1/4	8.7	122.4
crb	8.8	122.3
+2	7.5	123.6
E	6.3	124.8

N.L. Peak St

E	4.8	126.3
+8	6.1	125.0
crb	8.3	122.8
1/4	8.5	122.6
M	9.0	122.1
1/4	9.8	121.3
crb	11.3	119.8
W	12.4	118.7

131.09

0+35 = Y-Sec "C"

W	11.2	119.9
crb	10.0	121.1
1/4	9.1	122.0
M	8.3	122.8
1/4	7.9	123.2
crb	7.8	123.3
+2	6.1	125.0
E	4.4	126.7

0+25 N. of "C"

E	3.1	128.0
+9	5.3	125.8
crb	7.3	123.8
1/4	7.4	123.7
M	7.8	123.3
1/4	8.4	122.7
crb	9.2	121.9
W	10.1	121.0

131.09

0+50

W	9.7	121.4
crb	8.9	122.2
"A	8.7	122.4
M	8.7	122.4
"A	8.2	122.9
crb	7.9	123.2
+2	5.2	125.9
E	3.8	127.3

0+80 - 1-Sec "D"

E	3.9	127.2
+8	5.5	125.6
crb	9.7	121.4
"A	10.3	120.8
M	10.9	120.2
"A	11.4	119.7
crb	12.6	118.5
W	14.9	116.2

131.09

1-Sec "E"

W	14.9	116.2
crb	13.3	117.8
"A	12.6	118.5
M	12.3	118.8
"A	11.8	119.3
crb	11.6	119.5
+2	10.6	120.5
E	8.5	122.6

0+25 N of "E"

E	12.9	118.2
crb	13.2	117.9
"A	13.1	118.0
M	13.3	117.8
"A	14.0	117.1
crb	17.2	113.9
W	19.8	111.3

	131.09	
	0+50	
W	17.4	113.7
crb	16.4	114.7
+ 25	14.0	117.1
"4	13.9	117.2
M	13.1	118.0
"4	12.8	118.3
crb	13.2	117.9
E	12.7	118.4
	0+75	
E	8.9	122.2
+8	9.4	121.7
crb	10.6	120.5
"4	10.6	120.5
M	10.7	120.4
"4	11.3	119.8
crb	11.6	119.5
W	11.6	119.5

	131.09	
	1+0	
W	8.4	122.7
crb	7.6	123.5
"4	7.4	123.7
M	7.1	124.0
"4	7.3	123.8
crb	7.0	124.1
+3	5.1	126.0
E	4.5	126.6
	1+25	
E	2.3	128.8
+7	2.5	128.6
crb	4.7	126.4
"4	4.7	126.4
M	4.7	126.4
"4	4.9	126.2
crb	5.5	125.6
W	6.3	124.8

		131.09		
		1+50		
W		3.2	127.9	
crk		3.2	127.9	
¼		2.7	128.4	
M		2.6	128.5	
¼		2.6	128.5	
crk		3.0	128.1	
+12		1.2	129.9	
E		0.5	130.6	
T.P.	12.69	142.21	1.57	129.52
		1+75		
E		10.2	132.0	
+8		10.7	131.5	
crk		12.1	130.1	
¼		12.1	130.1	
M		12.1	130.1	
¼		12.5	129.7	
crk		13.3	128.9	
+1		12.9	129.4	
W		13.2	129.0	

		142.21		
		1+96.3 = A-Sec "F"		
W		12.0	130.0	
+9		11.6	130.6	
crk		12.1	130.1	
¼		11.4	130.8	
M		10.9	131.3	
¼		10.4	131.7	
+6		10.9	131.3	
crk		10.1	132.1	
E		9.5	132.7	
		A-Sec "G"		
E		9.5	132.7	
+7		9.8	132.4	
+8		10.5	131.7	
crk		10.5	131.7	
¼		10.1	132.1	
M		10.5	131.7	
¼		10.6	131.6	
+4		10.9	131.3	
+5		10.4	131.8	
Crk		10.5	131.7	
W		10.5	131.7	

142.21

X-Sec "H"

N	9.2	133.0
crk	9.9	
+1	9.8	
11A	9.5	
N	9.3	134.9
11A	9.3	
crk	10.1	
+3	10.0	
+4	9.4	
S	9.5	134.7

0+25 E of "H"

S	7.6	134.6
+8	7.6	
+9	8.2	
crk	8.2	
11A	7.6	
N	7.6	134.6
11A	7.8	
crk	8.2	
+1	7.6	
N	7.5	134.7

142.21

0+50

N	5.4	136.8
+8	5.7	136.5
+9	6.2	136.0
crk	6.0	136.2
11A	5.7	136.5
N	5.5	136.7
11A	5.6	136.6
crk	6.3	135.9
+1	5.7	136.5
S	5.7	136.5

0+75

S	3.1	139.1
+9	3.3	138.9
crk	4.0	138.2
11A	3.1	139.1
N	3.2	139.0
11A	3.2	139.0
crk	3.5	138.7
+2	3.7	138.5
+3	3.2	139.0
N	3.2	139.0

		142.21		
		1+0		
N			0.1	142.1
+7			0.3	141.9
+8			0.8	141.4
Calc			0.4	141.8
1/4			0.4	141.8
M			0.5	141.7
1/4			0.4	141.8
Calc			0.9	141.3
+1			0.4	141.8
S			0.3	141.9
T.P.	10.20	152.28	0.13	142.08
		1+25		
S			6.8	145.5
+8			6.7	145.6
+9			8.1	144.2
Calc			8.1	144.2
1/4			7.2	145.1
M			6.9	145.4
1/4			7.0	145.3
Calc			7.5	144.8
+1			7.5	144.8
+2			6.5	145.8
N			6.6	145.7

	152.28		
	1+50		
N	4.7	147.6	
+9	4.5	147.8	
Calc	5.1	147.2	
+1	6.2	146.1	
1/4	6.1	146.2	
M	5.8	146.5	
1/4	5.9	146.4	
Calc	6.3	146.0	
+2	4.3	148.0	
S	4.2	148.1	
	1+75		
S	3.1	149.2	
+7	3.1	149.2	
+9	5.1	147.2	
Calc	5.1	147.2	
1/4	5.3	147.0	
M	5.3	147.0	
1/4	5.7	146.6	
+3	5.8	146.5	
+5	4.4	147.9	
Calc	4.5	147.8	
N	6.7	145.6	

152.28

2+0 = W.L. Pascoe St

N		9.4	142.9	
crb.		7.3	145.0	
+2		6.6	145.7	
1/4		6.2	146.1	
M		5.7	146.6	
1/4		5.5	146.8	
crb		5.4	146.9	
+3		5.3	147.0	
+5		3.3	149.0	
S		3.3	149.0	
				hub S.W.
		3.30	148.98	Merritt & Pascoe

x-section Peak St Merrit To Pascoe
" " 60' wide

Dunkle
12/29/09 Shaw
Dizzel

B.M. hub S.E. Peak & Merrit 123.47

B.M. 12.59 136.01

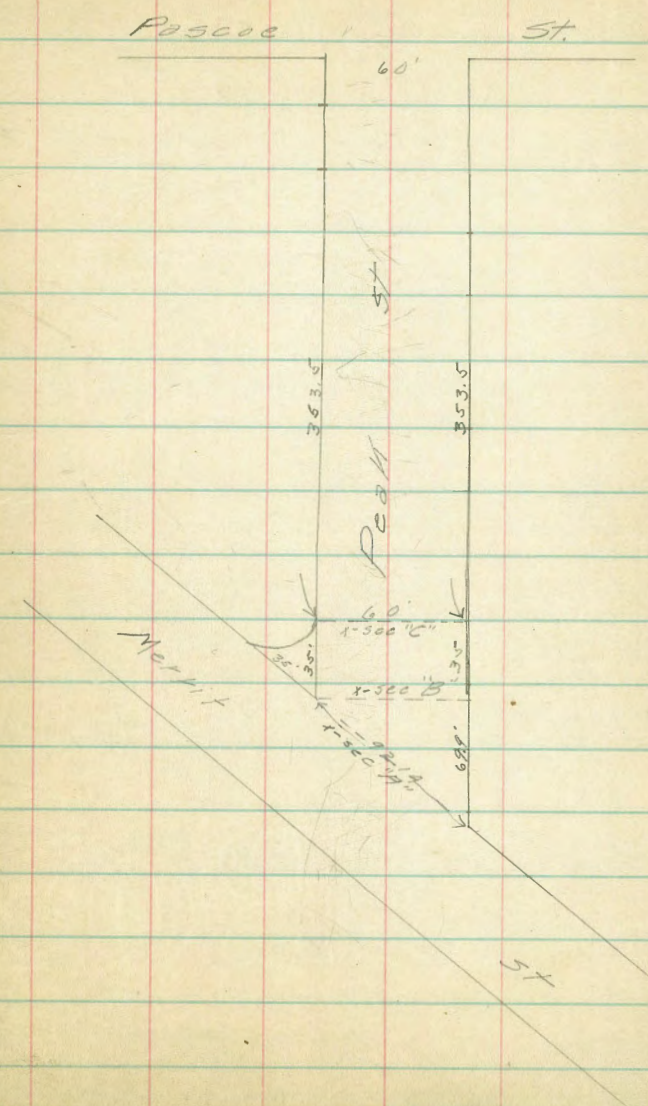
x-sec "A" = E.L. Merrit St

S	12.5	123.5
crb	12.6	123.4
1/4	11.8	129.2
M	11.7	124.3
1/4	11.9	124.1
crb	11.2	124.8
N	9.7	126.3

Plotted 6/19/11

x-sec "B"

N	9.7	126.3
crb	9.5	126.5
+6	9.6	126.4
+7	10.2	125.8
1/4	9.5	126.5
M	7.7	128.3
1/4	7.3	128.7
crb	7.4	128.6
+1	7.4	128.6
+2	6.4	129.6
S	6.2	129.8



136.01

0+35 from "B" = "C"

5	3.5	132.5
+9	4.0	132.0
crb	4.6	131.4
"4	4.0	132.0
M	4.3	131.7
"4	5.0	131.0
+4	5.7	130.3
+5	5.2	130.8
crb	5.5	130.5
N	6.5	129.5

0+50 E of x-sec "B"

N	3.4	132.6
crb	2.9	133.1
+4	2.9	133.1
+5	3.6	132.4
"4	3.0	133.0
M	2.5	133.5
"4	2.9	133.6
crb	3.0	133.0
+1	2.4	133.6
5	2.2	133.8
T.P.	11.14	147.05	0.10	135.91

147.05

0+75 E of "B"

5	10.1	136.9
+8	9.7	137.5
crb	11.1	135.9
"4	10.8	136.2
M	10.8	136.2
"4	11.6	135.4
+5	12.3	134.7
+6	11.8	135.2
crb	11.9	135.1
N	12.4	134.6

1+0

N	10.1	136.9
crb	10.2	136.8
+4	10.1	136.9
+5	10.5	136.5
"4	9.2	137.8
M	8.2	138.8
"4	8.2	138.8
crb	8.7	138.3
+1	8.1	138.9
5	7.6	139.4

		147.05		
		1+25		
3			2.9	144.1
+3			2.7	144.3
Crh			5.0	142.2
"4			4.8	142.2
N			5.1	141.9
"4			6.4	140.6
+5			7.7	139.3
+6			7.9	139.6
Crh			8.0	139.0
N			9.0	138.0
		1+50		
N			5.5	141.5
Crh			4.6	142.4
+3			4.6	142.4
+4			5.0	142.0
"4			3.5	143.5
N			2.2	144.8
"4			1.5	145.5
Crh			1.7	145.3
+1			1.0	146.0
5			0.0	147.0
T. P.	11.78	158.06	0.77	146.28

		158.06		
		1+75		
5			7.8	150.3
+9			8.2	149.9
Crh			9.4	148.7
"4			9.4	148.7
N			10.2	147.9
"4			11.8	146.3
+7			13.3	144.8
+8			12.8	145.3
Crh			13.3	144.8
N			14.3	143.8
		2+0		
N			11.6	146.5
Crh			11.2	146.9
+1			11.2	146.9
+2			11.5	146.6
"4			9.8	148.3
N			8.4	149.7
"4			7.6	150.5
Crh			7.4	150.7
+1			6.5	151.6
5			6.1	152.0

	158.06		
	2+25		
S		4.1	154.0
+9		5.2	152.9
Calc		6.4	151.7
1/4		6.2	151.9
M		6.4	151.7
1/4		7.2	150.9
+9		8.6	149.5
Calc		8.2	149.9
N		10.0	148.1
	2+50		
N		6.9	151.2
Calc		6.4	151.7
+1		7.0	151.1
1/4		6.2	151.9
M		5.6	152.5
1/4		5.4	152.7
Calc		5.5	152.6
+1		5.0	153.1
S		4.5	153.6

	158.06		
	2+75		
S		3.5	154.6
+9		3.7	154.4
Calc		4.9	153.2
1/4		4.7	153.4
M		4.7	153.4
1/4		5.2	152.9
Calc		6.1	152.0
+1		5.6	152.5
N		5.6	152.5
	3+0		
N		4.8	153.3
+9		5.0	153.1
Calc		5.7	152.4
1/4		5.2	152.9
M		4.8	153.3
1/4		4.8	153.3
Calc		4.7	153.4
S		4.2	153.9

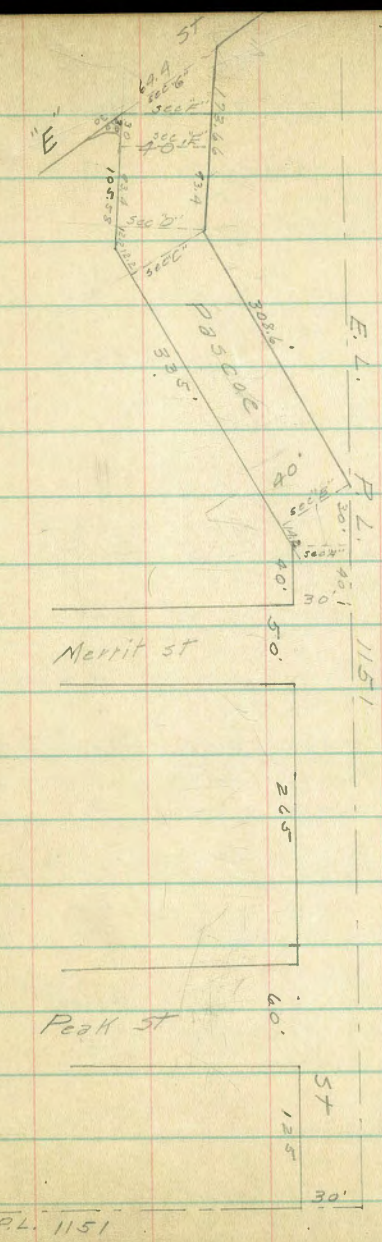
		158.06					158.06			
		3+25					3+75			
S			4.4	153.7	S			6.1	152.0	
crb			4.5	153.6	crb			6.3	151.8	
+1			5.1	153.0	+1			6.8	151.3	
1/4			4.6	153.5	1/4			6.6	151.5	
M			4.9	153.2	M			7.0	151.1	
1/4			5.5	152.6	1/4			7.3	150.8	
crb			6.0	152.1	crb			8.0	150.1	
					+1			7.0	151.1	
N			6.0	152.1	N			7.6	150.5	
		3+50			3+88.5 E of sec "B" = W.L. Pascoe st					
N			6.2	151.9	N			9.8	148.3	
+9			6.3	151.8	+7			9.5	148.6	
crb			6.7	151.4	+8			10.1	148.0	
					crb			9.9	148.2	
1/4			6.2	151.9	1/4			9.4	148.7	
M			5.4	152.7	M			9.1	149.0	
1/4			5.1	153.0	1/4			9.0	149.1	
					+9			9.0	149.1	
crb			5.4	152.7	crb			8.3	149.8	
+1			4.7	153.4	S			8.4	149.7	
S			4.6	153.5				8.38	149.68	hub S.W. Merritt & Pascoe

x-section Pascoe St. S.L.P.L. 1151 To "E" St 1/3/10 Duykle Shaw

B.M. hub S.W. Peak & Pascoe 149.68 Evans

B.M.	2.56	152.24		
	0+0 = S.L.P.L. 1151			
W			10.9	141.3
M			15.2	137.0
E			19.3	132.9
		0+25 N		
E			17.1	135.1
M			14.3	137.9
+5			13.6	138.6
+6			12.5	139.7
W			10.4	141.8
		0+50		
W			8.4	143.8
+7			10.3	141.9
+9			11.8	140.4
M			11.7	140.5
E			14.2	138.0

plotted JUNE/1911



152.24

0+75

E	12.2	140.0
M	9.1	143.1
+5	9.1	143.1
+7	7.2	145.0
W	5.3	146.9

1+00

W	2.8	149.4
+8	4.8	147.4
+9	6.5	145.7
M	6.5	145.7
E	9.7	142.5

1+25 = S.L. Peak St 60' wide

E	9.1	143.1
M	5.6	146.6
+6	5.3	146.9
+7	3.9	148.3
W	2.6	149.6

152.24

center Peak St

W	3.3	148.9
+10	5.7	146.5
M	5.8	146.4
E	8.1	144.1

N.L. Peak

E	8.4	143.8
M	6.0	146.2
+7	6.2	146.0
+8	5.2	147.0
W	4.0	148.2

0+25 N

W	4.4	147.8
+8	5.5	146.7
+9	6.8	145.4
M	6.7	145.5
+10	7.6	144.6
E	9.6	142.6

0+50

E	10.3	141.9
+6	8.2	144.0
M	7.7	144.5
+6	7.6	144.6
+7	6.3	145.9
W	5.2	147.0

152.24

0+75

W	4.7	147.5
+ 8	6.5	145.7
+ 9	7.8	144.4
M	7.5	144.4
+ 9	8.8	143.4
E	10.3	141.9

1+00

E	9.6	142.6
+ 6	8.6	143.6
M	7.5	144.7
+ 6	7.4	144.8
+ 7	6.2	146.0
W	4.7	147.5

1+25

W	5.5	146.7
+ 7	6.4	145.8
+ 8	7.1	145.1
M	6.9	145.3
E	8.1	144.1

152.24

1+50

E	6.6	145.6
M	6.0	146.2
+ 7	6.3	145.9
+ 8	5.6	146.6
W	5.3	146.8

1+75

W	4.4	147.8
+ 6	4.8	147.4
+ 7	5.8	146.4
M	5.3	146.9
E	5.7	146.5

2+00

E	3.9	148.3
+ 1	5.4	146.8
M	4.7	147.5
+ 6	4.9	147.3
+ 7	3.5	148.7
W	3.2	149.0

152.24

7+25

W		2.8	149.4
+7		2.9	149.3
+8		4.7	147.5
M		4.6	147.6
E		5.1	147.1

7+65 = S.L. Merrit 5+50'

E		5.6	146.6
M		5.6	146.6
7 6		4.7	147.5
+8		3.4	148.8
W		3.3	148.9
T.P.	1.63	150.61	3.26	148.98

center

W		3.8	146.8
ctr		4.9	145.7
E		5.0	145.6

150.61

N.L. Merrit

E			10.7	139.9
M			10.5	140.1
+3			10.4	140.2
+4			9.6	141.0
W			7.7	142.9
T.P.	0.67	138.36	12.92	137.69

0+40N = 1-sec "A" See Page 46

W		8.5	129.9
+8		9.3	129.1
+13		7.3	131.1
M		7.3	131.1
E		7.2	131.2

1-sec "B"

E			14.1	129.3
+6			14.5	128.9
crk			11.8	126.6
1/4			11.4	127.0
M			11.1	127.3
1/4			11.2	127.2
crk			11.8	126.6
+4			13.6	124.8
W			12.9	125.5
T.P.	0.86	126.43	12.79	125.57

126.43

0+25' N of ℄ sec "B"

W		6.4	120.0
+6		6.2	120.2
Crk		4.0	122.4
+7		3.4	123.0
¼		3.3	123.1
M		3.1	123.3
¼		3.3	123.1
Crk		4.6	122.4
+4		3.9	122.5
E		1.3	125.1
	0+50		
E		1.7	124.7
+7		5.9	120.5
Crk		6.8	119.6
¼		7.0	119.4
M		6.9	119.5
¼		7.3	119.1
Crk		7.9	118.5
+5		9.9	116.5
W		10.9	116.0

126.43

0+75

W			13.6	112.8
+4			13.1	113.3
+8			11.4	115.0
Crk			11.1	115.3
¼			10.9	115.5
M			10.9	115.5
¼			11.2	115.2
+3			10.9	115.5
Crk			8.9	117.5
+4			6.6	119.8
E			5.4	121.0
T.P.	0.63	115.93	11.13	115.30
		1+0		
E			1.4	114.5
+6			3.1	112.8
Crk			5.4	110.5
¼			5.0	110.9
M			5.0	110.9
¼			4.7	111.2
Crk			5.1	110.8
W			6.3	109.6

		115.93		
		1+25		
W			8.1	107.8
crk			8.4	107.5
1/4			8.6	107.3
M			8.5	107.4
1/4			8.8	107.1
crk			9.2	106.7
E			7.1	108.8
		1+50		
E			13.1	102.8
crk			13.1	102.8
1/4			12.5	103.4
M			12.1	103.8
1/4			12.0	103.9
crk			11.8	104.1
+5			12.0	103.9
+6			9.3	106.6
W			7.3	108.1

		115.93		
		1+75		
W			8.7	107.2
+4			10.9	105.0
+5			14.5	101.4
crk			14.7	101.2
1/4			14.9	101.0
M			14.8	101.1
1/4			15.7	100.7
crk			15.9	100.0
+7			16.9	99.0
E			15.9	100.0
		2+0		
E			19.4	96.5
crk			19.8	96.1
1/4			18.6	97.3
M			18.3	97.6
1/4			18.1	97.8
crk			18.0	97.9
+4			17.6	98.3
+7			13.3	102.6
W			12.5	103.4
T. P	0.39	103.86	18.46	103.47

		103.86		
		2+25		
W		4.4	99.5	
+3		5.1	98.8	
+5		8.9	95.0	
Crk		9.6	94.3	
"4		9.6	94.3	
M		9.8	94.1	
"4		10.3	93.6	
Crk		10.9	93.0	
E		11.0	92.9	
		2+50		
E		13.0	90.9	
+5		14.7	89.2	
Crk		14.7	89.2	
"4		13.9	90.0	
M		13.5	90.4	
"4		13.9	90.5	
Crk		13.2	90.7	
+4		13.2	90.7	
+7		8.9	95.0	
W		7.5	96.4	
T.P.	0.37	92.80	11.43	92.43

		92.80		
		2+75		
W		0.4	92.4	
+4		2.5	90.3	
+6		5.8	87.0	
Crk		5.7	87.1	
"4		5.9	86.9	
M		6.2	86.6	
"4		6.5	86.3	
Crk		6.8	86.0	
+2		6.6	86.2	
E		3.1	89.7	
		3+08.6 = 1-sec "C"		Page 46
E		7.6	85.2	
+3		8.4	84.4	
+5		11.9	81.4	
Crk		11.8	81.0	
"4		11.3	81.5	
M		11.0	81.8	
"4		10.8	82.0	
Crk		10.5	82.3	
+3		10.5	82.3	
+6		7.6	85.2	
W		5.3	87.5	

92.80

X-sec "D"

W	10.8	82.0
+9	12.3	80.5
+6	14.3	78.5
crk	13.4	79.4
"A	12.8	80.0
M	12.7	80.1
"A	12.6	80.2
crk	12.5	80.3
+5	11.8	81.0
+7	8.7	84.1
E	7.6	85.2

0+25 N of sec D.

E	6.3	86.5
+8	10.2	82.6
crk	14.5	78.3
+2	16.0	76.8
"A	16.1	76.7
M	15.7	77.1
"A	15.9	76.9
crk	15.9	76.9
W	18.8	74.0

92.80

0+50

W	22.2	70.6
+5	20.8	72.0
crk	20.0	72.8
"A	20.0	72.8
M	20.0	72.8
"A	19.8	73.0
+8	12.8	80.0
crk	11.1	81.7
E	7.3	85.5

0+75

E	10.8	82.8

T.P.	0.56	81.01	12.35	80.45

crk	4.2	76.8
"A	8.0	73.0
M	12.4	68.6
"A	12.8	68.2
crk	12.9	68.1
+5	12.9	68.1
W	14.7	66.3

81.01

0+93 ± = 1-sec "E"

W	16.9	64.1
calc	16.0	65.0
"	15.6	65.4
"	14.2	66.8
"	11.8	69.2
+3	8.1	72.9
calc	7.7	73.3
E	4.3	76.7

1-sec "F"

E	17.0	69.0
calc	13.5	67.5
"	14.3	66.7
"	14.8	66.2
"	15.5	65.5
calc	16.5	64.5
W	18.0	63.0

81.01

1-sec "G"

W	18.0	63.0
calc	16.9	64.1
"	16.2	64.8
"	16.2	64.8
"	16.8	64.2
calc	17.7	63.3
E	17.7	63.3

1/30/10 Hatch Moore Thomas

Section Ingalls St from Lewis to Getti

TP.	5.64	279.94	274.30
		N. Getti	
E		6.9	273.0
cb.		6.8	273.1
1/a		7.0	272.9
a		6.9	273.0
1/a		6.7	273.2
cb.		6.1	273.8
W		5.3	274.6
	85 N.		
W		5.8	274.1
cb.		6.2	273.7
1/a		6.3	273.6
c		6.4	273.5
1/a		6.8	273.1
cb		6.5	273.4
E		6.6	273.3

20' walks

279.94

50 N.		
E	6.5	273.4
cb.	6.2	273.7
1/4	6.5	273.4
c	6.6	273.3
1/4	6.3	273.6
cb.	6.1	273.8
W	5.5	274.4
75 N.		
W	5.6	274.3
cb	6.1	274.8
1/a	6.3	274.6
c	6.2	273.7
1/4	6.2	273.7
cb	5.7	274.2
E	6.3	273.6

27994

100' N of Gett.

E	5.9	274.0
cb	5.6	274.3
1/a	6.0	273.9
c	5.9	274.0
1/a	5.8	274.1
cb	5.9	274.0
W	5.8	274.1

125' N

W	5.5	274.4
cb	5.1	274.8
1/4	5.3	274.6
c	5.3	274.6
1/a	5.3	274.6
cb	5.3	274.6
E	5.8	274.1

27994

150' N.

E	5.9	274.0
cb	5.2	274.7
1/4	5.6	274.3
c	5.5	274.4
1/a	4.8	275.1
cb	4.5	275.4
W	4.9	275.0

175' N.

W	4.2	275.7
cb	4.4	275.5
1/4	4.3	275.6
c	5.2	274.7
1/a	5.3	274.6
cb	5.1	274.8
E	5.3	274.6

279.94

200' N.

E	5.1	274.8
cb	4.5	275.4
1/4	4.6	275.3
c	4.4	275.5
1/4	4.2	275.7
cb	4.5	275.4
W	3.9	276.0

225' N.

W	3.4	276.5
cb.	3.5	276.4
1/4	3.8	276.1
c	3.7	276.2
1/4	4.1	275.8
cb	4.1	275.8
E	4.4	275.5

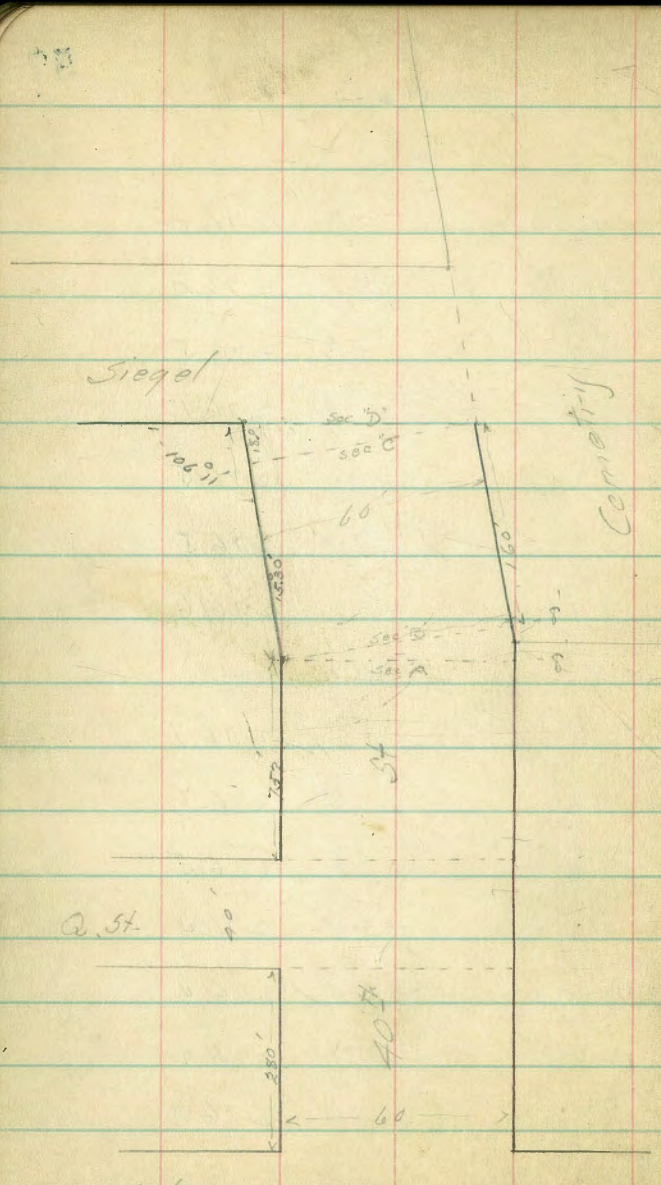
279.94

250' N.

E	3.9	276.0
cb	3.9	276.0
1/4	3.4	276.5
c	3.8	276.1
1/4	3.4	276.5
cb	3.4	276.5
W	3.3	276.6

375' N = St Lewis.

W	3.2	276.7
cb.	3.2	276.7
1/4	3.4	276.5
c	3.5	276.4
1/4	3.5	276.4
cb	3.7	276.2
E	3.9	276.0
By Lewis Ingalls.	409	275.85 275.57



2/16 Hatch
10 Wood
Thomas

X Sections 40th Street from Woolman to Siegel

BM Monument	1.79	113.06		111.26	NW 39th and Woolman
TP	0.03	100.13	12.96	100.10	
TP	0.11	88.43	11.81	88.32	
		NL Woolman			
W			2.96	85.47	Hub.
⅓			4.2	84.2	
¼			5.6	82.8	
C			6.7	81.7	
¼			8.1	80.3	
⅓			9.7	78.7	
E			10.5	77.9	
		25' N.			
E			10.3	78.1	
⅓			9.5	78.9	
¼			8.6	79.8	
C			7.6	80.8	
¼			7.1	81.3	

8843

S	6.6	81.8
W	5.5	82.9
50' N.		
W	6.3	82.1
S	7.2	81.2
1/4	7.4	81.0
C	7.6	80.8
1/4	8.7	79.7
S	9.0	79.0
E	9.5	78.9
75' N.		
E	7.4	81.0
S	8.0	80.4
1/4	8.2	80.2
C	7.9	80.5
1/4	8.0	80.4
S	7.8	80.6
W	6.8	81.6

8843

100' N.

W	7.4	81.0
S	7.4	81.0
1/4	7.3	81.1
C	7.3	81.1
1/4	7.3	81.1
S	6.2	82.2
E	5.6	82.8
125' N.		
E	4.2	84.2
S	5.1	83.3
1/4	6.0	82.4
C	6.2	82.2
1/4	6.2	82.2
S	6.2	82.2
W	5.6	82.8

	8843		
	150 N		
W	4.3	84.1	
S	4.3	84.1	
1/4	4.8	83.6	
C	4.6	83.8	
1/4	4.7	83.7	
S	4.2	84.2	
E	4.0	84.4	
	175 N		
E	2.3	86.1	
S	3.3	85.1	
1/4	3.4	85.0	
C	3.4	85.0	
1/4	3.0	85.4	
S	2.8	85.6	
W	2.3	86.1	

	8843			
	200 N			
W		0.3	88.1	
S		1.0	87.4	
1/4		1.3	87.1	
C		1.3	87.1	
1/4		1.0	87.4	
S		0.7	87.7	
T.P.	72.74	100.83	0.34	88.09
E		11.1	89.7	
	225 N			
E		8.3	92.5	
S		9.2	91.6	
1/4		10.1	90.7	
C		10.6	90.2	
1/4		11.0	89.8	
S		11.0	89.8	
W		9.7	91.1	

100.83

250' N

W	6.7	94.1
S	7.7	93.1
1/4	8.0	92.8
C	7.9	92.9
1/4	7.4	93.4
S	7.6	93.2
E	5.5	95.3

370 N. 51 Q St.

E	2.0	98.8
S	2.3	98.5
1/4	3.5	97.3
C	3.9	96.9
1/4	4.2	96.6
S	4.3	96.5
W	4.5	96.3

100.83

13' W of 51 Q St

W	0.7	100.1
S	0.5	100.3
1/4	0.7	100.1
C	1.9	98.9
1/4	1.3	99.5
S	1.1	99.7
E	0.3	100.5
7.7°	5.03	108.86	0.0	100.83

25' N.

E	6.4	102.5
S	7.4	101.5
1/4	7.3	101.6
C	7.5	101.4
1/4	7.7	101.2
S	7.7	101.2
W	7.7	101.2

	108.86		
	50' N.		
W		4.9	104.0
cb		5.8	103.1
1/4		5.7	103.2
C		5.0	103.9
1/4		5.1	103.8
cb		4.6	104.3
E		4.2	104.7
	75 N.		
E		3.3	105.6
cb		3.7	105.2
1/4		4.7	104.2
C		4.5	104.4
1/4		4.6	104.3
cb		5.0	103.9
W		3.2	105.7

	108.86		
	100' N.		
W		2.0	106.9
+5		4.1	104.8
cb		3.9	105.0
1/4		3.6	105.3
C		3.9	105.0
1/4		4.3	104.6
cb		3.1	105.8
E		2.5	106.4
	125' N.		
E		3.5	105.4
cb		4.0	104.9
1/4		4.6	104.3
C		3.5	105.4
1/4		3.6	105.3
cb		3.2	105.7
+5		3.6	105.3
W		2.2	106.7

10886

150' N.

W	3.2	105.7
b	3.9	105.0
1/4	4.1	104.8
C	4.6	104.3
1/4	5.1	103.8
b	4.3	104.6
E	3.7	105.2

175' N.

E	6.8	102.1
b	6.9	102.0
1/4	6.4	102.5
C	5.8	103.1
1/4	4.9	104.0
b	4.6	104.3
W	3.8	105.1

10886

200' N.

W	5.7	103.2
b	6.5	102.4
1/4	6.8	102.1
C	8.5	100.4
1/4	9.4	99.5
b	10.5	98.4
E	11.3	97.5

225' N

E	11.9	97.0
b	10.9	98.0
1/4	10.1	98.8
C	9.3	99.6
1/4	8.9	100.0
b	8.4	100.5
W	12.4	96.5

		10886		
		230' N		
W			12.7	96.2
ab			8.8	100.1
1/c			9.0	99.9
c			9.2	99.7
1/a			9.8	99.1
af			11.1	97.8
E			12.2	96.7
TP	879	10569	11.96	96.90
		238' N		
E			13.9	91.8
cb			12.7	93.0
1/c			10.1	95.6
c			6.4	99.3
1/a			6.2	99.5
ab			6.6	99.1
+5			9.8	95.9
W			10.4	95.3

		10569		
		250' N		
W			10.6	95.1
+5			10.3	96.4
b			6.5	99.2
1/c			6.3	99.4
c			10.9	94.8
+5			12.6	93.1
1/a			13.3	92.4
b			13.6	92.1
E			14.7	91.0
		275' N		
E			12.0	93.7
b			11.5	94.2
1/a			11.1	94.6
+5			11.1	94.6
c			9.3	96.4
1/c			3.8	99.9

	105.69		
Sb		6.2	99.5
+5		9.0	96.7
W		9.6	96.1
	300 'N.		
W		7.5	98.2
+6		6.6	99.1
Sb		4.9	100.8
1/4		4.5	101.2
+5		5.0	100.7
C		7.0	98.7
+5		5.4	97.3
1/4		5.3	97.4
Sb		5.2	97.5
E		7.3	98.4

		105.69		
		325 'N.		
E			1.4	103.3
Sb			2.4	103.3
1/4			2.1	103.6
C			2.3	103.4
1/4			2.2	103.5
Sb			2.6	103.1
W			2.2	103.5
T.P	10.99	115.55	1.03	104.56
		350 'N.		
W			7.3	108.4
Sb			9.5	106.8
1/4			9.8	105.8
C			9.5	106.1
1/4			9.4	106.2
Sb			8.4	107.2
E			8.7	106.9

115-55

375 N.

E	6.7	108.9
cb	6.3	109.3
1/4	6.9	108.7
C	7.2	108.4
1/4	7.5	108.1
cb	8.0	107.6
+3	8.0	107.6
W	5.8	109.8

400 N.

W	4.3	111.3
+6	5.6	110.0
cb	6.1	109.5
1/4	6.1	109.5
C	5.8	109.8
1/4	6.2	109.4
cb	4.2	111.4
E	3.9	111.7

115.55

425 N

E	3.4	112.2
cb	3.3	112.3
+5	4.3	111.3
1/4	5.4	110.2
C	4.7	110.9
1/4	5.1	110.5
cb	4.9	110.7
W	3.5	112.1

450 N.

W	3.6	112.0
cb	4.3	111.3
1/4	4.3	111.3
C	4.5	111.1
1/4	4.6	110.0
cb	4.0	111.6
E	4.2	111.4

115-5-5

475 N

E	3.9	111.7
cb	4.1	111.5
1/4	4.8	110.8
C	4.7	110.9
1/4	4.6	111.0
cb	4.3	111.3
W	3.4	112.2

500 N

W	4.7	110.9
cb	5.2	110.4
1/4	5.1	110.5
C	5.0	110.6
1/4	5.4	110.2
cb	4.9	110.7
E	5.1	110.5

115-5-5

525 N

E	6.2	109.4
cb	5.9	109.7
1/4	5.5	110.1
C	5.2	110.4
1/4	5.0	110.6
cb	5.1	110.5
W	4.9	110.7

550 N

W	4.5	111.1
cb	4.6	111.0
1/4	4.5	111.1
C	5.0	110.6
1/4	5.4	110.2
cb	5.6	110.0
E	5.8	109.8

115-55

575 N

E	4.7	110.9
cb	4.3	111.3
½c	4.9	110.7
c	4.7	110.9
½c	4.0	111.6
cb	4.2	111.4
W	3.8	111.8

600 N.

W	3.7	1119
cb	4.2	111.4
½c	4.0	111.6
c	4.4	110.2
½c	4.8	110.8
cb	4.2	111.4
E	4.6	1110

115-55

625 N

E	4.9	110.7
cb	4.7	110.9
½c	5.1	110.5
c	4.6	1110
½c	4.2	111.4
cb	3.9	111.7
W	3.3	112.3

650 N.

W	3.3	112.3
cb	3.8	111.8
½c	4.4	111.2
c	4.7	110.9
½c	5.3	110.3
cb	5.7	109.9
E	6.5	109.1

115.55

675' N

E	6.5	109.1
d	5.3	110.3
1/2	5.3	110.3
c	4.9	111.2
1/2	4.2	111.4
b	4.0	111.6
W	2.1	112.5

700 N

W	3.0	112.6
d	4.4	111.2
1/2	4.2	111.4
c	4.6	111.0
1/2	5.0	110.6
d	6.1	109.5
E	7.0	108.6

115.55

725 N.

E	6.3	109.3
d	5.2	110.4
1/2	5.1	110.5
c	4.7	110.9
1/2	4.6	111.0
b	3.8	111.8
W	2.6	113.0

752 N. Sec. "A"

W	2.3	113.3
d	3.6	112.0
1/2	4.7	110.9
c	4.6	111.0
1/2	4.6	111.0
d	4.7	110.9
E	4.6	111.0

TP 800 120.04 3.51 112.04

120.04

Sec "B"

E	8.3	111.7
cb	9.1	110.9
1/a	8.7	111.3
c	8.7	111.3
1/a	9.1	110.9
cb	8.0	112.0
W	6.8	113.2

25' N of Sec B

W	7.1	112.9
+5	8.4	111.6
cb	8.5	111.5
1/a	8.3	111.7
c	8.1	111.9
1/4	8.3	111.7
cb	8.6	111.4
E	8.0	112.0

120.04

57' N.

E	7.6	112.4
cb	8.3	111.7
1/a	7.7	112.3
c	7.4	112.6
1/a	7.6	112.4
cb	7.9	112.1
+7	7.9	112.1
W	6.6	113.4

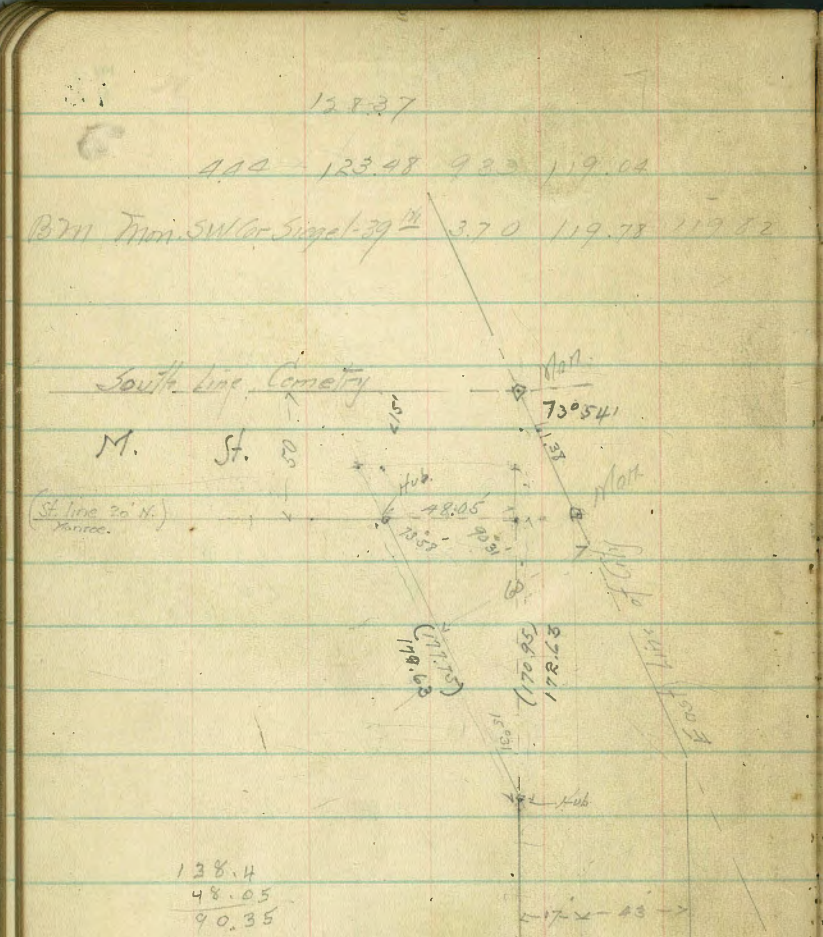
75' N.

W	6.1	113.9
+3	7.3	112.7
cb	7.3	112.7
1/a	6.8	113.2
c	6.6	113.4
1/4	7.4	112.6
cb	7.6	112.4
E	7.4	112.6

	130.04		
	100' W		
E		6.7	1133
S		7.2	112.8
1/4		6.4	113.6
C		6.0	1140
1/4		6.1	1139
S		6.9	1136
+7		6.7	1133
W		5.1	1149
	125' W		
W		4.7	1163
+3		5.7	114.3
S		5.7	1143
1/4		5.3	114.7
C		5.5	1146
1/4		5.8	114.2
S		6.2	113.8
E		6.0	1140

Sec P 72

	130.04		
	160' W. = Sec "C"		
E		4.8	115.2
S		4.7	115.3
1/4		4.7	115.3
C		4.3	1157
1/4		3.9	116.1
S		4.5	115.5
W		4.5	116.5
		3.5	1155
	Sec "D"		
W		3.9	1161
S		3.6	1164
1/4		3.5	116.5
C		4.0	1160
1/4		4.4	115.6
S		4.5	115.5
E		4.8	115.2
P.T.	9.38	128.37	1.05	118.99
BM			



128.37

444 123.48 933 119.04

BM Mon. SW Cor Siegel-39th 3.70 119.78 119.82

South Line Cemetry

M. St.

(St. line 20' N.)
Yonroe.

Mon.
73°54'
1.38
Mon.
Hub.
48.05
73°58'
90°31'
(177.75)
179.63
(170.95)
172.63
Hub.
17 43

138.4
48.05
90.35

7/15/12 Hold Re X sec of end
Hall of 40 = St.

BM 855 128.37 119.82
BM on Pueblo cor Mon at end of Car track on 40th St.
569 121.97 1209 116.28

Sec D

W 45
Ob 52

Sec C = 160' N of Angle

W 51
Ob 53

125' N. of Angle

W 60
Ob 66

100' N.

W 100
Ob 108

+400

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

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

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