

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

400

LEVEL

**F.B. 449**

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

Cont. 449

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.	MINUTE	LKS.
				<b>449</b>	
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

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						
°		°		°		°	
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

Wright  
ballot  
meter  
1/19 09

cross-section of Lantana st  
continued from  
Book No 447

1

8031

W. of Locust st

72	101	70.7
11	100	70.3
"	99	70.4
6	98	70.5
4	97	70.9
11	93	71.0
52	90	71.3

Plotted

50' W of Locust

52	64	73.9
11	67	73.6
7	70	73.3
1	70	73.3
4	70	73.3
11	76	72.7
72	79	72.4

POSTED

8031

100 w of Locust

22	62	74.1
11	58	74.5
7	55	74.8
6	51	75.2
4	49	75.4
11	46	75.7
52	43	76.0

130 w of Locust

52	15	79.8
11	17	79.6
4	17	79.6
6	20	78.3
4	26	77.7
11	31	77.2
22	33	77.0

70 1214 9219 0.26 8005

9219

Lentils

2

200 w of Locust

22	130	79.2
11	122	80.0
7	116	80.6
6	104	81.8
4	94	82.8
11	90	83.2
52	87	83.5

250 w of Locust

52	38	88.4
11	45	87.7
7	58	86.4
6	69	85.3
4	84	84.0
11	92	83.0
22	108	81.9

POSTED

9219

300' W = 9 line of Elm St W

W2		55	86.7
W1		40	88.2
Y		30	89.2
L		20	90.2
Y		10	91.2
TP	1221	10427	013
			9203
W1		117	92.6
SR		108	93.5

W line of Elm St

SR		51	99.2
W1		63	98.0
Y		73	97.0
L		80	96.3
Y		87	95.6
W1		97	94.6
W2		110	93.3

10427

50' W of Elm St

W2		64	97.9
W1		59	98.4
Y		53	99.0
L		45	99.8
Y		39	100.4
W1		32	101.1
SR		23	102.0
TP	1271	11684	014
			10413

100' W of Elm St

SR		115	105.3
W1		121	104.7
Y		130	103.8
L		133	103.5
Y		137	103.1
W1		139	102.9
W2		137	103.1

Lev. 100

3

11684

150'

W of

Elm

n2

98

107.0

H

97

107.1

7

94

107.4

6

90

107.8

7

88

108.0

H

88

108.0

S2

80

108.8

200'

W of

Elm st

S2

41

112.7

H

48

112.0

7

51

111.7

6

53

111.5

7

54

111.4

H

52

111.6

n2

46

112.2

11684

250'

W of

Elm

n2

04

116.4

H

06

116.2

7

06

116.2

6

06

116.2

7

06

116.2

H

06

116.2

S2

05

116.3

TP

1232

12909

007

116.7

300'

W =

E side of Willow st (20')

S2

84

120.7

H

77

121.4

7

77

121.4

6

76

121.5

7

75

121.6

H

82

120.9

n2

83

120.8

courses

4

POSTED

12909

W line of Willow st

nd	41	125.0
hh	39	125.2
"	38	125.3
h	35	125.6
"	33	125.8
hh	32	125.9
SR	33	125.8

50' w of Willow

SR	06	128.5
hh	05	128.6
"	06	128.5
h	13	127.6
"	25	126.6
hh	27	126.4
nd	30	126.1

710 893 13692 110 127.99

13692

100' w of Willow st

nd	101	126.8
hh	96	127.3
"	91	127.8
h	86	128.3
"	82	128.7
hh	78	129.1
SR	77	129.2

130' w of Willow

SR	62	130.0
hh	79	129.0
"	81	128.8
h	83	128.6
"	90	127.9
hh	92	127.7
nd	92	127.7

Levelling  
5

136.92

200 W of Elm st

N2	98	127.1
Nh	84	128.5
"	83	128.6
L	85	128.4
Y	88	128.1
H	78	129.1
SL	67	130.2

250 W of Elm

SL	72	129.7
H	79	129.0
Y	80	128.9
L	83	128.6
Y	90	127.9
H	94	127.5
N2	100	126.9

136.92

300 W = E line of Plum st (20')

N2	70	129.9
H	71	129.8
Y	66	130.3
L	62	130.7
Y	64	130.5
H	66	130.3
SL	57	131.2

W line of Plum st

SL	38	133.1
H	41	132.8
Y	55	131.4
L	58	131.1
Y	59	131.0
H	59	131.0
N2	60	130.9

Elevation 6

POSTED

13692

50'

W of

Plum

N2	56	1313
H	40	1329
"	35	1334
L	56	1313
"	50	1319
H	49	1320
S2	47	1322

100'

W of

Plum ✓

S2	47	1328
H	43	1326
"	40	1329
L	38	1331
"	43	1326
H	32	1317
N2	58	1311

13692

150'

W of

Plum

N2	56	1313
H	52	1317
"	51	1318
H	50	1319
"	48	1321
H	47	1322
S2	43	1326

TP

960

14257

525 13297

200'

W of

Plum ✓

S2	90	1336
H	90	1336
"	90	1336
L	93	1333
"	96	1330
H	102	1324
N2	104	1322

Cantass

7

14257

250' W of Plum

92	105	1321
11	98	1328
7	90	1336
6	82	1344
7	77	1349
11	76	1350
SR	77	1349

300' W = 2 lines of blow at (70)

SR	62	1364
11	64	1362
7	66	1360
6	71	1355
7	76	1350
11	81	1345
SR	89	1337

14257

W line of blow at

centies

8

92	67	1359
11	62	1364
7	59	1367
6	54	1372
7	52	1374
11	48	1378
SR	48	1378

50' W of blow at

SR	35	1391
11	38	1388
7	40	1386
6	42	1384
7	49	1377
11	55	1371
92	61	1365

POSTED

14257

100' w of blm

B2	44	138.2
H	40	138.6
Y	35	139.1
L	29	139.7
Y	30	139.6
H	29	139.7
S2	24	140.2

150' w of blm

S2	13	141.3
H	15	141.1
Y	19	140.7
L	20	140.6
Y	20	140.6
H	24	140.2
H2	02	139.4

14257

200' w of blm

H2	17	140.9
H	12	141.4
Y	08	141.8
L	05	142.1
Y	03	142.3
H	00	142.6
S2	+05	143.1

220' w = Public Lin

S2	+05	143.1
H	00	142.6
Y	01	142.5
L	02	142.4
Y	07	141.9
H	09	141.7
H2	10	141.6

Curtis

9

POSTED

cross-section of Dumas St (70')

W side of Tide St

	985	1230	245	Bm Bm 3rd
W side of Tide St				
n 2		98	2.5	
ll		98	2.5	
4		100	2.3	
6		102	2.0	
7		102	2.1	
ll		103	2.0	
S 2		103	1.8	
50	W side	Tide		
S 2		96	2.7	
ll		97	2.6	
4		95	2.8	
6		95	2.8	
4		93	3.0	
ll		91	3.1	
n 2		89	3.4	

Plotted

1230

Dumas

10

160 W side Tide St

	160	W side	Tide	St
	22		79	4.4
	ll		82	4.1
	7		84	3.9
	6		86	3.7
	4		87	3.6
	ll		88	3.5
	S 2		88	3.5
		130	W side	Tide
	S 2		76	4.7
	ll		77	4.6
	7		76	4.7
	6		75	4.8
	4		73	5.0
	ll		70	5.3
	n 2		70	5.3

1230

	200	w of	Tide	
nl			6.0	6.3
hl			6.2	6.1
y			6.4	5.9
b			6.4	5.9
y			6.5	5.8
hl			6.5	5.8
sl			6.5	5.8

250

	250	w of	Tide	
sl			4.8	7.5
hl			5.2	7.1
y			5.2	7.1
b			5.2	7.1
y			5.1	7.2
hl			5.0	7.3
nl				

1230

Barred

	300	w of	E line of Skofler	11
nl			3.60	8.70 Bn
hl			4.0	8.3
y			4.0	8.3
b			3.8	8.5
y			4.1	8.2
hl			4.1	8.2
sl			4.1	8.2

W line of Skofler

sl	3.0	9.3	<b>POSTED</b>
hl	3.0	9.3	
y	3.0	9.3	
b	2.7	9.6	
y	2.7	9.6	
hl	2.9	9.4	
nl	2.9	9.4	

1250  
50' w of Shaft

SL		11	11.2
H		12	11.1
Y		12	11.1
L		14	10.9
Y		12	11.1
H		13	10.8
SL		15	10.8
TP	10.96	2289	0.37
	100	w of	Shaft
			11.93

SL		10.7	12.2
H		10.8	12.1
X		10.4	12.5
SL		10.4	12.5
Y		10.7	12.2
H		10.6	12.3
SL		10.6	12.3

2289  
150' w of Shaft

SL		9.2	13.7
H		9.2	13.7
Y		9.2	13.7
L		9.5	13.4
Y		9.5	13.4
H		9.5	13.4
SL		9.2	13.7

200' w of Shaft

SL		8.1	14.8
H		8.0	14.9
Y		8.0	14.9
L		7.8	15.1
Y		7.8	15.1
H		7.7	15.2
SL		7.7	15.2

Dumas  
12

2289

250 w of

Shoals

22	62	16.7
24	64	16.5
4	65	16.4
6	64	16.5
7	64	16.5
24	64	16.5
52	65	16.4

300' w = E line of Shoals

52	52	17.7
24	52	17.7
4	52	17.7
6	48	18.1
7	47	18.2
24	45	18.4
22	46	18.3

2289

W line of

Shoals

22	09	22.0
24	12	21.7
4	16	21.3
6	18	21.1
7	21	20.8
24	25	20.4
52	25	20.4

70 1210 34.76 023 2266

50' w of Shoals

52	116	23.2
24	113	23.5
4	111	23.7
6	105	24.3
7	103	24.5
24	99	24.9
22	97	25.1

Dunes

13

3476

	100	wy	Scat	W
SR			50	29.8
LL			57	29.6
Y			58	29.0
L			62	28.6
Y			67	28.1
LL			75	27.3
SR			81	26.7

	150	wy	Scat	W
SR			40	30.8
LL			33	31.5
Y			27	32.1
L			20	32.8
Y			17	33.1
LL			11	33.7
SR			10	33.8
TP	1281	4750	107	34.69

4750

Dumas

14

	200	wy	Scat	W
SR			87	39.3
LL			89	38.6
Y			96	37.9
L			106	36.9
Y			118	35.7
LL			126	34.9
SR			136	33.9

	250	wy	Scat	W
SR			127	34.8
LL			118	35.7
Y			106	36.9
L			95	38.0
Y			87	39.3
LL			67	40.8
SR			60	41.5

POSTED

4730

280' W of South st

n2	17	415.8
h	16	415.9
y	26	414.9
b	57	411.8
y	95	38.0
h	108	36.7
SL	115	36.0

300' W of E end of Rascierans ss (100)

SL	21	415.4
h	20	415.5
y	20	415.5
b	18	415.7
y	16	415.9
h	13	416.2
n2	11	416.4

TP	217	4897	070	416.80
----	-----	------	-----	--------

4897

W Lin of Rascierans

n2	0.6	484
h	0.8	482
y	1.0	480
b	1.3	477
y	1.3	477
h	1.4	476
SL	1.6	474

30' W of Rascierans

SL	137	35.3
h	115	37.5
y	97	39.3
b	92	39.8
y	70	42.0
h	53	43.7
n2	40	43.0

Dumas

15

POSTED

4897

50' w of Russians

nl	5.5	43.5
ll	7.1	41.9
"	8.8	40.2
h	11.8	37.2
"	14.0	35.0
ll	15.3	33.3
sl	16.6	32.4

100' w of Russians

sl	14.6	34.4
ll	16.2	33.8
" <sup>75'</sup>	18.0	31.0
"	14.3	34.7
h	12.8	36.2
"	11.4	37.6
ll	9.3	39.7
nl	8.4	40.6

4897

150' w of Russians

nl	8.4	41.0
ll	9.3	39.7
"	11.3	37.7
h	13.3	35.7
"	15.4	33.6
ll	12.4	36.6
sl	10.5	38.5

200' w of Russians

sl	6.6	42.4
ll	10.0	39.0
"	11.9	37.1
h	13.6	35.4
"	11.1	37.9
ll	9.5	39.5
nl	8.2	40.8

Dumas

16

POSTED

4897

250' W of Rosecrans

n2 87 40.8

H 120 37.0

y 111 37.9

b 84 40.6

y 73 41.7

H 118 44.2

S2 24 46.6

300' W = E of Locust (80)

n2 92 40.8

H 107 38.3

y 81 40.9

b 44 44.6

y 00 49.0

W line of Locust

n2 67 42.3

H 41 44.9

y 27 46.3

H 1224 61.03 070 46.77

6103

Dumas

17

300' W = E of Locust

S2 79 53.1

H 102 50.8

y 121 48.9

W line of Locust

S2 23 58.7

H 56 55.4

y 83 52.7

b 125 48.5

50' W of Locust

n2 139 45.1

H 147 46.3

y 136 47.4

b 120 49.0

y 97 51.3

H 80 53.0

S2 59 55.1

POSTED

6103

	100'	Wg	Depth	
SL			38	57.2
ll			42	56.8
y			53	55.7
l			70	54.0
y			83	52.7
ll			105	50.5
n2			122	48.8

125' Wg

		Wg	Depth	
n2			98	51.2
ll			82	52.8
y			64	54.6
l			39	57.1
y			26	58.4
ll			08	60.2
SL			404	61.4

6103

Dumas

18

	150'	Wg	Depth	
n2			56	55.4
ll			45	56.5
y			20	59.0
l			07	60.3
TP	1279	<u>7366</u>	016	60.87
y			121	61.6
ll			105	63.2
SL			97	64.0

200' Wg

		Wg	Depth	
SL			46	69.1
ll			54	68.3
y			62	67.4
l			71	66.6
y			88	64.9
ll			104	63.3
n2			117	62.0

POSTED

		7366	
	250'	W of	of Street
22		67	67.0
H		63	67.4
7		57	68.6
6		34	70.3
4		23	71.4
H		16	72.1
SR		09	72.8
TP	1233	8569	030 7336
	300'	W =	E of Elm St (70')
SL		84	77.3
H		88	76.9
7		99	75.8
6		107	75.0
4		112	74.5
H		120	73.7
22		129	72.8

		8569		Canvas
	W of	Elm St		19
22		51	80.6	
H		49	80.8	
7		38	81.9	
6		36	82.1	
7		36	82.1	
H		33	82.4	
SR		30	82.7	
	30'	W of	Elm St	
SL		05	85.2	
H		05	85.2	
7		08	84.9	
6		14	84.3	
7		24	83.3	
H		24	83.3	
22		38	81.9	
TP	1253	9265	057	85.12

9765

100 w of Elm

n2	161	81.6
H	149	82.8
4	131	84.6
6	125	85.2
7	119	85.8
H	109	86.8
SA	102	87.5

130 w of Elm

SA	78	88.9
H	95	88.2
4	104	87.3
6	110	86.7
H	115	86.2
H	122	85.3
n2	133	84.4

9765

200 w of Elm

n2	89	88.8
H	76	90.1
4	67	91.0
6	64	91.3
7	55	92.2
H	45	93.4
SA	32	94.5

250 w of Elm

n2	46	93.1
H	24	93.3
4	10	96.7
TP	1171	<u>10815</u>
6	121	96.44
6	105	97.7
7	92	99.0
H	78	100.4
SA	69	101.3

Sumas

20

10815

300' W - E of Willow

SL	23	1059
HL	33	1049
Y	50	1032
L	68	1014
Y	86	996
HL	106	976
SL	122	960

W Line of Willow

SL	46	1036
HL	40	1042
Y	35	1047
L	36	1046
Y	32	1050
HL	22	1060
SL	106	10709

1082

25' W of Willow

SL	50	1032
HL	36	1046
Y	25	1057
L	17	1065
Y	14	1069
HL	10	1072
SL	02	1080

50' W of Willow

SL	54	988
HL	69	1013
Y	45	1037
L	08	1074
TP	1254	11945
		016
		125
		1070
HL	112	1083
SL	95	1100

Damas

21

POOLED

11945

75'

wy

Willow

SL	101	109.4
HL	117	107.8
y	126	106.9
b	150	104.5
y	193	100.2
HL	200	99.5
HL	200	99.5

100'

wy

Willow

HL	143	105.2
HL	146	104.9
y	148	104.7
b	149	105.1
y	137	105.8
HL	130	106.5
SL	120	107.5

11945

150'

wy

Willow

SL	44	113.9
HL	61	113.4
y	70	112.5
b	76	111.9
y	80	111.5
HL	85	111.0
HL	92	110.3

200'

wy

Willow

HL	72	112.3
HL	66	112.9
y	57	113.8
b	48	114.7
y	41	115.4
HL	37	115.8
SL	30	116.5

Dunes

22

11945

250 W of Willow

S2	04	119.1
EL	13	118.2
7	24	117.1
6	34	116.1
7	44	115.1
11	54	114.7
nr	61	113.4

300 W = EL Plum

nr	60	113.5
11	50	114.5
7	40	115.5
6	31	116.4
7	21	117.4

POSTEL

11	11	118.4
S2	04	119.1
	025	119.20

Bm SEP Plum

12/09 Clough Col Bath Nordie Section Elliott St from

Bay to W Line Roseville

T.M. 9.15 12.59 3.44 Full Tide

W Line Tide St.

11	12.59	9.2	3.4
11		9.4	3.2
11		9.2	3.4
11		9.3	3.3
11		9.4	3.2
11		9.4	3.2
11		9.5	3.1

Plotted

POSTED

50' W. Tide St. POSTED

5.1		8.7	3.9
11		8.6	4.0
11		8.5	4.1
11		8.1	4.2
11		8.2	4.4
11		8.1	4.5
11		8.0	4.6

12.59

100' W Tide St

NL	7.1	5.5
⊙	7.1	5.5
1/4	7.1	5.5
1/2	7.3	5.3
3/4	7.5	5.1
⊙	7.6	5.0
SL	7.7	4.9

150' W Tide St

SL	6.6	6.0
⊙	6.5	6.1
1/4	6.5	6.1
1/2	6.3	6.3
3/4	6.2	6.4
⊙	6.2	6.4
NL	6.3	6.4

12.59

Elliott St

24

200' W Tide St

NL	4.6	8.0
⊙	4.8	7.8
1/4	5.0	7.6
1/2	5.2	7.4
3/4	5.2	7.3
⊙	5.2	7.3
SL	5.5	7.1

250' W Tide St

SL	4.5	8.1
⊙	4.3	8.3
1/4	4.3	8.3
1/2	4.1	8.5
3/4	4.0	8.6
⊙	4.0	8.6
NL	3.9	8.7

E007ED

12.59

300' W. Tide = Ek Shafter

NL	2.3	10.3
c	2.4	10.2
1/4	3.0	9.6
1/2	3.0	9.6
3/4	3.3	9.3
c	3.5	9.1
SL	2.6	9.0

W. Line Shafter

SL	1.3	11.3
c	1.2	11.4
1/4	1.0	11.6
1/2	0.9	11.7
3/4	0.6	12.0
c	0.4	12.2

NL	0.2	12.4
T.P.	12.20 21.59	0.20 12.39

26.59

Elliott

25

50' W. Shafter

NL	10.9	14.7 <sup>3</sup>
c	11.0	13.6
1/4	11.3	13.3
1/2	11.5	13.1
3/4	11.7	12.9
c	11.9	12.7
SL	12.2	12.4

100' W. Shafter

SL	10.8	13.8
c	10.5	14.1
1/4	10.2	14.4
1/2	10.1	14.5
3/4	9.8	14.8
c	9.6	15.0
NL	9.4	15.2

2459

150 W. Shafter St

NL	7.1	17.2
c	7.7	16.9
1/4	8.0	16.6
2	8.9	16.3
1/4	8.5	16.1
c	8.8	15.8
SL	8.9	15.7

200 W. Shafter

SL	6.5	18.1
c	6.2	18.4
1/4	6.1	18.5
2	5.8	18.8
1/4	5.6	19.0
c	5.2	19.4
NL	4.7	19.9

2459

Elliott

26

250 W. Shafter St

NL	1.1	23.5
c	1.3	23.3
1/4	1.6	23.0
2	1.9	22.7
1/4	2.3	22.3
c	2.7	21.9
SL	3.1	21.5
T.D.	9.61	33.98
	0.22	24.37

300 W. Shafter - Elliott

SL	8.8	25.2
c	8.6	25.4
1/4	8.5	25.5
2	8.5	25.5
1/4	8.3	25.8
c	8.2	25.8
NL	8.2	25.8

POSTED

3398

100' W. Scott St

NK	5.1	28.9
c	5.0	29.0
1/4	5.2	28.8
1/4	5.4	28.6
1/4	5.5	28.5
c	5.8	28.2
SL	6.1	27.9

50' W. Scott St

SL	4.5	29.5
c	4.4	29.6
1/4	4.1	29.9
1/4	4.1	29.9
1/4	4.0	30.0
c	3.3	30.7
NK	2.8	31.2

3398

E. Watts

100' W. Scott St

27

NK	1.7	32.3
c	1.8	32.2
1/4	1.9	32.1
1/4	2.0	32.0
1/4	2.3	31.7
c	2.6	31.4
SL	2.9	31.1

12.60	4.246	0.72	33.86
-------	-------	------	-------

150' W. Scott St

SL	12.7	33.8
c	12.2	34.3
1/4	11.9	34.6
1/4	11.8	34.7
1/4	11.6	34.9
c	11.5	35.0
NK	11.5	35.0

4676

200' W. Scott St

NL	7.3	39.2
c	7.1	39.4
1/4	7.2	39.3
2	7.7	38.8
1/4	8.3	38.2
c	8.6	37.9
SL	8.8	37.7

250' W. Scott St

SL	2.6	43.9
c	3.4	43.1
1/4	3.4	43.1
2	2.1	44.1
1/4	2.4	44.1
c	3.0	43.5

NL	2.9	43.6
TP	9.7	56.17
	0.03	46.49

5617

5617

28

260' W. Scott St

NL	8.5	47.8
c	8.7	47.5
1/4	8.9	47.3
2	8.7	47.5
1/4	8.8	47.4
c	9.2	47.0
SL	9.9	46.3

300' W. Scott St - <sup>Graded</sup> Tracerans

SL	7.0	49.2
c	6.8	49.4
1/4	6.7	49.5
2	6.8	49.4
1/4	6.7	49.5
c	6.7	49.5

NL	7.8	49.4
TP	11.96	67.94
	0.19	55.98

POSTED

67.94

## Wine Rosecrans St

N	12.8	55.1
e	12.3	55.6
W	11.8	56.1
d	11.6	56.3
W	11.1	56.8
e	10.7	57.2
S	10.6	57.3

## 50' Wine Rosecrans

S	8.5	59.4
e	8.6	59.3
W	8.7	59.2
d	8.8	59.1
W	8.9	59.0
e	9.0	58.9
N	9.3	58.6

67.94

Elliott

## 100' Wine Rosecrans St 29

N	5.7	62.2
e	5.5	62.4
W	6.2	61.7
d	7.0	60.9
W	7.6	60.3
e	7.8	60.1
S	8.2	59.7

## 150' Wine Rosecrans St

S	6.6	61.3
e	5.7	62.2
W	5.2	62.7
d	4.4	63.5
W	4.0	63.9
e	3.5	64.4
N	3.1	64.5
T.R	4.30	69.44
	280	65.14

POSTED

69-47

200' W. Rosecrans

N/1	4.6	64.8
2	5.3	64.1
1/4	5.1	64.0
1/2	5.7	63.7
3/4	6.5	62.9
1	7.6	61.8
5/8	8.4	61.0

250' W. Rosecrans

5/8	6.3	63.1
2	6.0	63.4
1/4	5.1	64.0
1/2	5.0	64.4
3/4	4.8	64.6
1	4.0	65.4
N/1	3.1	66.0

69-48

Elliott

300' W. Rosecrans = Fel. Locust <sup>30</sup>

N/1	3.4	66.0
2	3.6	65.8
1/4	3.2	66.2
1/2	3.1	66.3
3/4	3.6	65.8
1	4.8	64.6
5/8	5.7	63.7

W. Line Locust 21

5/8	10.10	59.34
2	9.6	59.8
1/4	9.0	60.4
1/2	8.3	61.1
3/4	7.3	62.1
1	6.1	63.3
N/1	5.9	63.5

69.44

50' W. Locust St

NL	7.4	62.0
D	8.6	60.8
14	9.7	59.7
4	10.3	59.1
14	11.2	58.2
C	12.1	57.3
SL	12.7	56.7

100' W. Locust St

SL	9.1	60.3
D	8.5	60.9
14	8.1	61.3
4	8.2	61.2
14	8.3	61.1
C	8.3	61.1
NL	8.2	61.2

69.44

Elliott St

31

150' W. Locust St

NL	4.4	65.0
e	4.0	65.4
14	3.6	65.8
4	3.6	65.8
14	3.9	65.5
C	4.1	65.3
SL	4.8	64.6

200' W. Locust St

SL	2.5	66.9
e	1.8	68.1
14	0.5	68.9
4	0.2	69.2
14	0.1	69.0
C	0.7	68.7
NL	0.8	68.6
T.P.	0.99	70.83
	0.70	68.74

73.83

250' W. Locust St

N.L.	3.1	70.7
c	2.9	70.9
14	2.7	71.1
d	2.8	71.0
14	3.4	70.4
c	4.9	68.9
5L	6.7	67.1

300' W. Locust - Fil. Elm St

5L	7.3	66.5
c	5.9	66.9
14	4.7	69.1
d	3.6	70.2
14	3.0	70.8
c	2.5	71.3
N.L.	2.1	71.7

73.83

Elliot  
W. Line Elm St

32

N.L.	2.08	71.75
c	3.0	70.8
14	4.0	69.8
d	4.8	69.0
14	5.7	68.1
c	8.4	65.4
5L	10.7	63.1

50' W. Elm St

5L	13.0	60.8
c	11.2	64.6
14	8.2	65.6
d	6.4	67.4
14	5.1	68.7
c	3.8	70.0
N.L.	2.7	71.1

73.83

100' W. Elm St

N.L.	3.2	70.5
c	50	68.8
14	7.9	65.9
2	9.9	63.9
14	12.5	60.3
c	13.0	60.8
5	12.7	61.1

150' W. Elm St

5	8.9	64.9
c	9.4	64.4
14	9.8	64.0
2	11.1	62.7
14	10.2	63.6
c	8.8	65.0
N.L.	8.2	65.6

Elliott

206' W. Elm - W. line Roseville Pueblo line 33

N.L.	5.0	68.8
c	6.6	67.2
14	8.7	65.1
7.6	10.5	63.0
2	7.8	66.0
14	6.9	66.9
c	5.0	68.8
5	4.2	69.6

206' = Pueblo line as now located

Clough  
Co Post  
1/25 N. 11.15  
15.56  
Section of Freeman St  
T. Bout Mine Roseville  
15.56  
2.38  
Freeman  
1870

M	11.2	4.4
c	11.1	4.5
44	11.1	4.5
d	11.2	4.4
44	11.3	4.3
c	11.2	4.4
SL	11.2	4.4

Plotted

POSTED

50' N Tide St

SL	9.8	5.8
c	9.9	5.7
44	9.8	5.8
d	9.8	5.8
44	9.8	5.8
c	9.8	5.8
N	9.9	5.7

1856

Freeman  
34

100' N Tide St

M	8.5	7.1
c	8.4	7.2
44	8.5	7.1
d	8.8	6.8
44	8.7	6.9
c	8.5	7.1
SL	8.3	7.3

150' N Tide St

SL	6.7	8.9
c	7.0	8.6
44	7.0	8.6
d	6.9	8.7
44	6.8	8.8
c	6.7	8.9
N	6.9	8.7

1556

200' W. Tide St

NL	53	10.3
c	54	10.2
14	55	10.1
d	55	10.1
14	55	10.1
c	55	10.1
5L	55	10.1

250' W. Tide St

5L	41	11.5
c	39	11.7
14	40	11.6
d	40	11.6
14	37	11.9
c	37	11.9
NL	36	12.0

1556

Freeman

35

300' W. Tide = E. L. Shafter St

NL	24	13.2
c	22	13.4
14	24	13.2
d	25	13.1
14	26	13.0
c	26	13.0

5L	26	13.0		
T.R.	9.14	2375	0.75	14.0

W. Line Shafter St

5L	2375	9.1	14.6
c		9.0	14.7
14		8.8	14.9
d		8.6	15.1
14		8.3	15.4
c		8.1	15.6
NL		8.25	15.50

23.75

50' W. Shafter St

NL	6.4	17.3
c	6.7	17.0
1/4	6.8	16.9
d	7.3	16.4
1/4	7.8	15.9
c	8.1	15.6
5/8	8.2	15.5

100' W. Shafter St

5/8	6.5	17.2
c	6.5	17.2
1/4	6.4	17.3
d	6.0	17.7
1/4	6.0	17.7
c	5.7	18.0
NL	5.4	18.3

23.75

Freeman

150' W. Shafter St

NL	3.0	20.7
c	2.9	20.8
1/4	2.9	20.8
d	3.1	20.6
1/4	3.3	20.4
c	3.3	20.4

5/8 10.86 32.41 3.5 20.8  
 7/8 2.20 21.53

200' W. Shafter St

5/8	32.71	8.2	24.2
c		8.1	24.3
1/4		8.3	24.1
d		8.3	24.1
1/4		8.6	23.8
c		8.7	23.7
NL		9.1	23.3

3241

250' W Shafter St

N.L.	6.0	26.4
c	5.7	26.7
1/4	5.5	26.9
d	5.8	26.6
1/4	6.0	26.4
c	5.9	26.5
S.L.	5.8	26.6

300' W Shafter = E / Scott St

S.L.	4.2	28.7
c	4.3	28.1
1/4	4.1	28.3
d	3.7	28.7
1/4	3.4	29.0
c	3.8	28.6
N.L.	3.92	28.49

3241

Freeman

37

W Lina Scott St

N.L.	11	31.3
c	12	31.4
1/4	11	31.3
d	11	31.0
1/4	11.5	30.9
c	11.7	30.7
S.L.	10.35	42.26
	2.0	30.4
	0.50	31.71

50' W. Scott St

S.L.	42.26	10.5	31.8
c	10.4	31.9	
1/4	10.2	32.1	
d	10.0	32.3	
1/4	9.7	32.6	
c	9.6	32.7	
N.L.	9.5	32.8	

42.26

100' W. Scott St

NK	8.1	34.2
c	8.4	33.9
14	8.7	33.6
d	8.4	33.9
14	8.9	33.4
c	9.1	33.2
5L	9.2	33.1

150' W. Scott St

5L	6.6	35.7
c	6.5	35.8
14	6.5	35.8
d	6.5	35.8
14	6.5	36.0
c	6.5	36.0
NK	6.0	36.3

42.26

Freeman

38

200' W. Scott St

NK	3.7	38.6
c	3.5	38.8
14	3.6	38.7
d	3.6	38.7
14	3.1	39.2
c	1.5	40.8

5L	2.0	40.3
TR	10.76	52.84
	0.18	42.08

225' W. Scott St

5L	52.84	9.6	43.2
c		9.7	43.1
14		9.8	43.0
d		9.5	43.3
14		10.3	42.5
c		9.6	43.2
NK		10.0	42.8

52.84

250' N. Scott St

NL	7.3	43.5
c	7.4	43.4
1/4	7.8	43.0
d	7.9	44.9
1/4	7.1	43.7
c	8.2	44.5
5'	8.2	44.5

300' N. Scott = EL Rosecrans St  
Graded. (100)

5'	4.6	48.4
c	4.8	48.0
1/4	5.0	47.8
d	5.1	47.7
1/4	5.4	47.4
c	5.5	47.3

NL		5.5	47.3
T.P.	12.05	69.89	7.04 51.84

53.89

Trooman

39

N. Line Rosecrans St

NL	9.2	54.6
c	8.4	53.5
1/4	8.2	53.7
d	8.5	55.4
1/4	9.0	54.9
c	7.8	56.1
5'	7.4	56.5

POSTED

50' N. Rosecrans St

5'	5.1	58.8
c	5.5	58.4
1/4	6.5	57.4
d	6.5	57.4
1/4	6.2	57.7
c	6.5	57.4
NL	7.0	56.9

6289

100' W. Rosecrans St

NL	3.6	60.3
c	3.0	60.9
14	3.3	60.6
d	4.4	59.3
14	4.5	59.4
c	3.2	60.7
5L	2.9	61.0

150' W. Rosecrans

5L	1.1	62.8
c	1.4	62.5
14	1.3	62.6
d	1.2	62.7
14	2.1	61.8
c	2.4	61.5

NL		2.3	61.6	
T.R.	9.85	79.73	0.01	63.88

78.73

Freeman.

40

200' W. Rosecrans St

NL	9.7	64.0
c	10.5	63.2
14	9.7	64.0
d	9.0	64.7
14	9.3	64.4
c	9.6	64.1
5L	9.8	63.9

250' W. Rosecrans St

5L	7.2	66.5
c	7.0	66.7
14	7.6	66.1
d	8.2	65.5
14	8.5	65.2
c	7.8	65.9
NL	7.7	66.0

73.73

300' W. Rosaceras = Fl locust St

NK	7.1	66.6
c	7.2	66.5
1/4	7.1	66.6
1/2	7.2	66.5
1/4	7.4	66.3
c	7.4	66.3
5/8	7.9	66.8

W. line locust St

5/8	4.1	69.6
c	4.3	69.4
1/4	4.4	69.3
1/2	4.3	69.4
1/4	4.4	69.3
c	4.3	69.4
NK	4.1	69.32

73.73

Freeman

41

50' W. Locust St

NK	2.0	71.7
c	1.7	72.0
1/4	2.0	71.7
1/2	1.8	71.9
1/4	1.6	72.1
c	2.0	71.7
5/8	2.1	71.6

100' W. Locust St

5/8	1.6	72.1
c	1.1	72.6
1/4	0.9	73.4
1/2	0.28	73.75
1/4	4.4	74.0
1/2	4.2	74.2
c	4.0	74.4
NK	3.9	74.5

POSTED

x

7837

150' W. Locust St

NL	2.3	761
c	2.4	760
14	2.7	757
d	3.2	757
14	3.6	748
c	4.6	728
SL	5.0	731

200' W. Locust St

SL	5.8	726
c	5.1	733
14	4.4	740
d	4.0	744
14	3.6	748
c	3.5	749
NL	3.6	748

7837

Freeman

42

250' W. Locust St

NL	6.7	717
c	6.7	717
14	6.7	717
d	6.6	718
14	6.9	715
c	7.4	710
SL	7.8	706

300' W. Locust - E. Elm

SL	7.1	713
c	7.2	717
14	7.3	711
d	7.6	708
14	7.8	706
c	7.7	707
NL	7.6	708

X

78.37

## White Elm St

NL		4.58	73.79
c		4.6	73.8
14		4.6	73.8
4		4.2	74.7
14		4.0	74.4
c		4.3	74.1
5L		4.2	74.7
T.P.	994	86.71	1.50
			76.77
	50' W. Elm St		
5L	86.71	10.0	76.7
c		9.8	76.9
14		9.1	77.6
4		8.5	78.2
14		8.2	78.5
c		8.3	78.4
NL		8.6	78.1

86.71

Freeman

43

## 100' W. Elm St

NL		4.9	81.8
c		5.0	81.7
14		5.7	81.0
4		6.5	80.7
14		6.7	80.9
c		6.8	79.9
5L	1	7.0	79.7

## 150' W. Elm St

5L		4.4	82.3
c		4.0	82.7
14		3.8	82.9
4		3.7	83.0
14		3.4	83.3
c		2.8	83.9
NL		2.7	84.0

76.6.6

X

8671

205' W Elm = W line Roseville

Pueblo line

NH	2.5	847
e	2.1	846
14	1.8	849
ϕ	1.9	848
14	2.3	844
c	2.1	846
54	2.3	844

205' = Pueblo line as now  
located

POSTED

clough  
Col bath  
1/25/09 Wordie  
Section of Goldsmith from

44

W line Tida to W line Roseville  
N 111° 56'

T.M. 10.0.8 1443 4.35 Goldsmith  
Tide

W line Tida St

NH	1443	10.0	4.4
e		10.2	4.2
14		10.1	4.3
ϕ		9.9	4.5
14		9.4	5.0
c		9.6	4.8
54		9.6	4.8

Platted

POSTED

50' W Tida St

54	80	6.4	X
c	80	6.4	
14	82	6.2	
ϕ	84	6.0	
14	87	5.7	
c	86	5.8	
NH	87	5.7	

1443

100' W. Tidal St.

NL	81	63
c	80	64
14	7.8	6.6
2	7.7	6.7
14	7.6	6.8
c	7.8	7.1
DL	6.8	7.6

150' W. Tidal St.

5L	6.3	8.1
c	6.1	8.3
14	6.2	8.7
2	6.6	7.8
14	6.6	7.8
c	6.7	7.7
NL	6.4	8.0

1443

Goldsmith

45

200' W. Tidal St.

NL	5.0	9.4
c	5.2	9.2
14	4.9	9.5
2	4.8	9.6
14	5.0	9.4
c	5.3	9.1
5L	5.3	9.1

250' W. Tidal St.

5L	3.8	10.6
c	3.7	10.7
14	3.6	10.8
2	3.7	10.7
14	3.7	10.7
c	3.3	11.1
NL	3.3	11.1

14.43

300' W. Tide = E.L. Shafter

Nh	1.6	12.8
c	1.8	12.6
14	1.9	12.5
d	2.0	12.4
14	2.0	12.4
c	2.0	12.4

Sl	2.1	12.3
TR	9.60	22.93
	1.10	13.33

W. line Shafter St.

Sl	22.93	7.17	15.76
c		7.0	15.9
14		7.0	15.9
d		6.9	16.0
14		6.7	16.2
c		6.8	16.1
Nh		6.6	16.3

22.93

Goldsmith

46

50' W. Shafter St

Nh	3.7	19.2
c	3.9	19.0
14	4.0	18.9
d	4.2	18.7
14	4.2	18.7
c	4.2	18.7

Sl	4.4	18.5
TR	10.47	32.99
		0.41
		22.52

100' W. Shafter St

Sl	32.99	9.9	23.1
c		9.7	23.3
14		9.3	23.7
d		8.9	24.1
14		9.0	24.0
c		9.2	23.8
Nh		9.4	23.6

3299

150' W Shafter St

NL	62	26.8
c	57	27.3
1/4	58	27.2
1/2	59	27.1
1/4	60	27.0
c	62	26.8
5/8	63	26.7

200' W Shafter St

5/8	46	28.7
c	44	28.6
1/4	42	28.8
1/2	40	29.0
1/4	44	28.6
c	48	28.2
NL	49	28.1

3299

Goldsmith

47

250' W Shafter St

NL	32	29.8
c	31	29.9
1/4	33	29.7
1/2	34	29.6
1/4	40	29.0
c	43	28.7
5/8	47	28.3

300' W Shafter - El Scott St

5/8	39	29.1
c	33	29.7
1/4	27	30.3
1/2	24	30.6
1/4	23	30.7
c	20	31.0
NL	19	31.4
1/2	8.30	29.71
	1.58	31.21

3299

150' W Shafter St

NL	6.2	26.8
c	5.7	27.3
14	5.8	27.2
2	5.9	27.1
14	6.0	27.0
c	6.2	26.8
5/	6.3	26.7

200' W Shafter St

5/	4.6	28.7
c	4.4	28.6
14	4.2	28.8
2	4.0	29.0
14	4.4	28.6
c	4.8	28.2
NL	4.9	28.1

3299

Goldsmith

47

250' W Shafter St

NL	3.2	29.8
c	3.1	29.9
14	3.2	29.7
2	3.4	29.6
14	4.0	29.0
c	4.3	28.7
5/	4.7	28.3

300' W Shafter St Scott St

5/	3.9	29.1
c	3.3	29.7
14	2.7	30.3
2	2.4	30.6
14	2.3	30.7
c	2.0	31.0
NL	1.6	31.4
1.2	8.30	39.71
		1.58
		31.41

397/

Wine Scott St.

NL	77	32.0
c	82	31.5
14	89	30.8
d	96	30.1
14	10.1	29.6
c	10.3	29.4
5L	10.5	29.2

50' N Scott St

5L	9.0	30.7
c	9.4	30.3
14	9.1	30.6
d	8.7	31.0
14	8.7	31.0
c	8.8	30.9
NL	8.1	31.6

397/

Goldsmith.

48

100' W. Scott St

NL	71	32.6
c	7.4	32.3
14	7.8	31.9
d	7.6	32.1
14	6.5	33.2
c	5.9	33.8
5L	5.2	34.5

150' W. Scott St

5L	3.6	36.1	POSTED
c	4.6	35.1	
14	5.1	34.6	
d	5.4	34.3	
14	5.8	35.9	X
c	6.0	33.7	
NL	6.0	33.7	

3971

200' W. Scott St

N/L	1.0	387
c	3.3	364
H	3.1	366
d	2.7	370
H	2.5	372
c	2.1	373
SL		378
T.R	10.69	49.98
	0.92	39.29

250' W. Scott St

SL	49.98	9.0	411.0
c		9.1	410.6
H		9.9	401
d		8.6	411.4
H		7.6	424
d		6.2	438
N/L		5.1	446

4998

Goldsmith

Graded (200)

49

300' W. Scott = E. line Rosecrans

N/L	1.6	454
c	1.6	454
H	1.6	454
d	1.6	454
H	1.9	451
c	1.7	453
SL	1.5	455

W. line Rosecrans

SL	0.0	50.0
c	0.9	49.1
H	0.6	49.4
d	0.4	49.6
H	2.3	47.7
c	1.6	48.4
N/L		47.5
T.R	12.40	61.59
	0.79	49.19

61.59

50' W. Pasocrans St

NL	10.1	51.5
c	9.7	51.9
h	9.5	52.1
d	8.8	52.8
h	7.9	53.7
c	7.1	54.5
SL	6.7	54.9

100' W. Pasocrans

SL	3.6	58.0
c	3.8	57.8
h	4.4	57.2
d	4.9	56.7
h	5.8	55.8
c	6.3	55.3
NL	7.1	54.5

61.59

Goldsmith

150' W. Pasocrans St 50

NL	4.9	56.7
c	4.5	57.1
h	4.4	57.2
d	3.3	58.3
h	3.1	58.5
c	3.2	58.4
SL	2.6	59.0

200' W. Pasocrans St

SL	1.0	60.6
c	1.5	60.1
h	1.7	59.9
d	2.2	58.4
h	2.7	58.8
c	2.7	58.9

NL	10.32	71.50	2.5	59.1
T.P.			0.41	61.18

7150

250' W Rosecrans

NL	10.3	61.5
c	10.7	60.8
W	11.0	60.5
♀	10.7	60.8
W	10.2	61.3
c	9.8	61.7
SL	9.4	62.1

300' W Rosecrans - FL Locust

SL	8.1	63.4
c	8.5	63.0
W	8.8	62.7
♀	8.7	62.8
W	8.8	62.7
c	8.7	62.8
NL	8.5	63.0

7150

Goldsmith

W Lincolncourt St

51

NL	4.56	66.94
c	4.2	67.3
W	4.2	67.3
♀	4.3	67.2
W	4.5	67.0
c	4.7	66.8
SL	4.9	66.6

50' W Locust St

SL	2.9	69.2
c	2.7	69.1
W	2.1	69.4
♀	1.8	69.7
W	1.4	70.1
c	1.3	70.2
NL	1.3	70.2
SL	10.35	81.36
W	0.49	71.01

POSTED

81.36

100' W Locust St

NK	7.2	74.2
c	7.3	74.1
N	7.8	73.6
d	7.9	73.5
N	8.2	73.2
c	8.5	72.9
SK	8.7	72.7

150' W Locust St

SK	5.3	76.1
c	5.2	76.2
N	5.0	76.4
d	4.5	76.9
N	4.3	77.1
c	4.3	77.1
NK	4.7	76.7

81.36

Goldsmith

52

200' W Locust St

NK	3.6	77.8
c	3.2	78.2
N	3.1	78.3
d	3.0	78.4
N	3.2	77.5
c	4.4	77.0
SK	4.5	76.9

250' W Locust St

SK	2.2	79.2
c	2.3	79.1
N	2.1	79.3
d	1.7	79.7
N	2.2	79.2
c	2.8	78.6
NK	3.7	77.7

81.36

300' W Locust - Elk Elm St

M	27	777
e	28	786
h	21	793
d	11	803
h	10	804
c	14	800
SL	15	799

W Lind Elm St

SL	0.5	809
e	0.6	808
h	0.9	801
d	10.3	817
h	10.2	816
c	1.0	804
M	25	789
T.D	8.10	88.56
	120	50.76

28.56

Goldsmith

50' W Elm St

M	22	804
c	76	810
h	71	812
d	67	819
h	66	820
c	70	811
SL	66	820

100' W Elm St

SL	4.5	841
e	1.5	841 POSTED
h	5.3	833
d	6.5	821
h	7.0	816 X
c	7.9	812
M	8.0	806

2856

150' W Elm St

NL	5.3	83.3
c	4.8	83.8
1/4	5.0	83.6
1/2	5.3	83.3
3/4	5.4	83.2
c	4.7	83.9
5/8	5.7	84.9
204' W Elm - W line		
5/8	2.9	85.7
c	3.7	84.9
1/4	4.2	84.4
1/2	4.4	84.2
3/4	4.5	84.1
c	4.8	83.8
NL	5.7	82.9

POSTED

204' = Poelloline as near located.

1/26/09 } along  
Belbath  
Hordie

53

X Section of Homer St from

W line of Tide St to

W line of Roseville - Poelloline

T.M. 1167 15.72

1.05

N.W. Cor.  
Homer &  
Tide.

W line Tide St

NL	11.7	41.0
c	11.8	39
1/4	11.8	39
1/2	11.8	39
3/4	11.8	39
c	11.9	38
5/8	11.5	39

POSTED

Platted

50' W Tide St

5/8	10.7	50	X
c	10.7	50	
1/4	10.8	49	
1/2	10.9	48	
3/4	10.8	49	
c	10.8	49	
NL	10.8	49	

1572

100' W Tide St

NK	9.2	6.5
c	9.2	6.5
14	9.2	6.5
2	9.1	6.6
14	9.1	6.6
c	9.1	6.6
SK	9.2	6.5

150' W Tide

SK	7.5	8.2
c	7.2	8.5
14	7.3	8.4
2	7.2	8.5
14	7.4	8.3
c	7.4	8.3
NK	7.6	8.1

1572

200' W Tide St

NK	5.6	10.1
c	5.7	10.0
14	5.3	10.4
2	5.3	10.4
14	5.5	10.2
c	5.5	10.2
SK	5.7	10.0

250' W Tide St

SK	3.8	11.9
c	3.8	11.9
14	3.7	12.0
2	3.5	12.2
14	3.4	12.3
c	3.5	12.2
NK	3.5	12.2

Homer

54

1572

300' W. Tide = F.L. Shafter

NL		118	139
c		118	139
14		117	140
φ		117	140
14		116	141
c		112	145

SL		113	144
TR	1201	28.28	5.25
			13.47

W. Line Shafter

SL	2878	1126	1692
c		1111	171
14		1110	172
φ		1110	172
14		1114	168
c		1115	167
NL		1114	168

2878

Homer

55

50' W. Shafter

NL		97	185
c		95	187
14		92	190
φ		91	191
14		91	191
c		91	191

SL		91	195
----	--	----	-----

100' W. Shafter

SL		67	215
c		68	214
14		69	213
φ		71	211
14		68	214
c		65	217
NL		72	210

## 150' W Shafter St

NL	6.1	22.1
c	5.9	22.3
14	5.0	23.2
4	<del>7.9</del>	<del>20.3</del>
14	<del>5.4</del>	<del>22.8</del>
c	5.6	22.6
SL	5.6	22.6

## 200' W Shafter

SL	2.9	25.3
c	2.9	25.3
14	3.0	25.2
4	3.0	25.2
14	3.2	25.0
c	3.4	24.8
NL	3.6	24.6

## 250' W Shafter St

NL	1.1	27.1
c	1.3	26.9
14	1.5	26.7
4	1.4	26.8
14	1.2	27.0
c	1.1	27.1
SL	0.8	27.4
14	10.4 + 38.58	0.8 + 28.27

## 300' W Shafter - Ft Scott St

SL	9.6	29.0
c	9.5	29.1
14	9.6	29.0
4	9.4	29.2
14	9.3	29.3
c	9.1	29.5
NL	8.92	29.76

38.58

100' W Scott St

NK	4.5	34.1
c	4.5	34.1
1/4	4.5	34.1
1/2	4.5	34.1
1/4	4.8	33.8
c	5.1	33.5
SL	5.0	33.6

50' W Scott St

SL	11.78	41.39	55.	35.9	29.66	13 M. NW Scott Hammer
c			5.0	36.4		
1/4			4.5	36.9		
1/2			4.2	37.2		
1/4			4.0	37.4		
c			3.9	37.5		
NK			3.8	37.6		

41.94

Hammer

57

100' W Scott St

NK	4.0	34.1			
c	0.1	41.9			
1/4	0.2	41.2			
1/2	0.5	40.9			
1/4	1.1	40.3			
c	1.6	39.8			
SL	12.48	53.21	67.0	39.7	40.79

150' W Scott St

SL	8.7	44.6	
c	9.1	44.2	
1/4	9.9	43.4	x
1/2	9.8	43.5	
1/4	9.1	44.2	
c	8.6	44.7	
NK	8.3	45.0	

53.27

200' W Scott 51

NL		37	49.6
c		41	49.2
14		73	49.0
4		32	50.1
14		3.5	49.8
c		5.2	48.1
5L		5.7	47.9

250' W Scott 51

5L		2.1	51.2
c		1.8	51.5
14		1.6	52.2
4		0.79	52.9
L.P.	695	60.03	53.08
14		6.7	53.3
c		6.0	54.0
NL		5.7	54.6

60.03

295' W Scott 51

Homer

58

NL		2.1	57.9
c		2.8	57.2
14		3.3	56.5
4		3.8	56.2
14		4.6	55.4
c		5.5	54.5
5L		6.1	53.9

200' W Scott 51

Good  
Graded  
Road 60.03

5L		11.7	48.3
c		11.6	48.4
14		11.3	48.7
4		11.0	49.0
14		10.8	49.2
c		10.6	49.4
NL		10.4	49.6

60.03

## W Line Rosecrans St

NL	8.4	51.6
c	8.4	51.6
14	8.5	51.0
2	8.7	51.0
14	8.9	51.1
c	9.3	50.7
5L	9.5	50.5

## 5' W Rosecrans

5L	4.8	55.2
c	4.4	55.6
14	3.9	56.1
2	3.2	56.7
14	3.1	56.9
c	2.5	57.5
NL	1.7	58.3

60.03

Homer

59

## 50' W Rosecrans St

NL	0.2	59.8
2	0.6	59.4
14	1.5	58.5
2	2.1	57.4
14	3.8	56.2
c	4.7	55.3
5L	5.3	54.7

## 100' W Rosecrans St

5L	5.7	54.3
c	4.9	55.1
14	3.9	56.1
2	2.6	57.0
14	2.9	57.8
14	4.18	57.02
c	3.4	60.6
NL	2.2	61.8

## 150' W. Rosecrans St

NK	9.0	61.0
c	3.8	60.2
1/4	5.3	58.9
2/4	6.5	57.5
1/4	7.7	56.3
c	8.6	55.4
5L	9.7	54.3

## 200' W. Rosecrans St

5L	10.2	53.8
c	8.9	55.1
1/4	7.9	56.1
2/4	6.8	57.2
1/4	5.9	58.1
c	4.4	59.6
NK	3.3	60.7

## 250' W. Rosecrans St

60

NK	3.0	61.0
c	4.1	59.9
1/4	5.1	58.9
2/4	6.4	57.6
1/4	7.2	56.2
c	9.5	54.5
5L	10.8	53.2

## 300' W. Rosecrans St Locust

5L	10.2	53.7
c	9.4	54.6
1/4	8.2	55.8
2/4	6.3	57.7
1/4	5.0	59.0
c	3.5	60.5
NK	2.7	61.3

67.04

## 100' W locust St

NL	2.7	61.4
c	3.0	61.0
1/4	4.5	59.5
1/4	6.1	57.9
1/4	7.7	56.6
c	10.5	53.5
5L	9.0	55.0

## 50' W locust St

5L	6.8	57.2
c	7.5	56.5
+ 1/4	10.7	53.6
1/4	7.1	56.9
1/4	6.0	58.0
1/4	5.2	58.8
c	4.9	59.7
NL	3.5	60.5

67.04

## 100' W locust St

NL	3.0	61.0
c	3.7	60.6
1/4	5.3	59.7
1/4	5.7	58.3
+ 1/4	7.7	56.6
1/4	6.0	58.0
c	5.7	58.6
5L	4.6	59.6

## 150' W locust St

5L	2.8	61.2
c	3.6	60.4
1/4	4.2	59.8
1/4	4.4	59.6
1/4	5.7	58.3
c	3.8	60.2
NL	2.9	61.1

Homey

61

64.04

200' W Locust St

NL	3.5	60.5
c	2.7	61.3
14	2.7	61.3
2	2.5	61.5
14	2.2	61.8
c	1.8	62.2

5/2  
 1300 76.38 64.0 62.6  
 65.38

250' W Locust St

5/1	12.1	64.3
c	12.6	63.8
14	12.8	63.6
2	12.9	63.5
14	13.1	63.3
c	13.5	62.9
NL	13.8	62.6

76.38

Homer

300' W Locust - Elm St

C2

NL	11.9	64.5
c	11.6	64.8
14	11.8	65.0
2	11.3	65.1
14	11.0	65.4
c	10.5	65.9
5/1	10.2	66.2

W Line Elm St

5/1	8.1	68.3
c	8.5	67.9
14	9.0	67.4
2	9.0	67.4
14	9.0	67.4
c	9.2	67.2
NL	9.6	66.8

76.30

50' W Elm St

NL	8.3	68.1
c	7.7	68.5
1/4	7.6	68.8
1/2	7.3	69.1
1/4	7.0	69.4
c	6.9	69.5
5/8	6.8	69.6

100' W Elm St

5/8	5.3	71.1
c	5.2	71.2
1/4	5.5	70.9
1/2	5.6	70.8
1/4	5.7	70.7
c	5.6	70.8
NL	5.8	70.6

76.38

150' W Elm St

NL	4.3	72.1
c	3.8	72.6
1/4	3.7	73.0
1/2	3.0	73.4
1/4	2.2	74.2
c	2.3	74.1

5/8	2.2	74.2
7/8	1.93	82.74
	1.57	74.81

200' W Elm St

5/8	6.0	76.7
c	7.4	75.3
1/4	8.1	74.6
1/2	8.3	74.4
1/4	8.4	74.3
c	8.5	74.2
NL	8.7	74.0

Homer  
63

8274

262' W. Elm - Mine Rosavilla

NL	5.8	76.9
c	6.0	76.7
14	6.4	76.3
L	6.7	76.0
14	6.1	76.6
c	6.0	76.7
SL	5.22	77.52

262' = Pueblo line as plotted

OSTED

E4

Change  
level  
on side  
of river

Cross-section of Ibsen at (75)  
Edge of tide to Pueblo in N.L. phase

E. line of Tide at  
1296 1319 0.23

72	130	0.2
ll	129	0.3
7	128	0.4
6	127	0.5
7	126	0.6
ll	125	0.7
SL	124	1.0

Platted

50 W of Tide at

SL	111	2.1
ll	113	1.9
7	115	1.7
6	117	1.5
7	118	1.4
ll	120	1.2
N.L.	121	1.1

1319

100 W of Tide

72	108	2.4
ll	106	2.6
7	103	2.9
6	100	3.2
7	99	3.3
ll	98	3.4
SL	94	3.8

150 W of Tide at

SL	66	6.6
ll	67	6.5
7	70	6.2
6	72	6.0
7	74	5.8
ll	80	5.2
72	81	5.1

Ibsen

65

1319

200

W of

Tide

72	61	7.1
66	59	7.3
"	57	7.5
6	54	7.8
"	52	8.0
6	51	8.1
52	50	8.2

250

W of

Tide

52	45	8.7
6	46	8.6
"	47	8.5
6	48	8.4
"	54	7.8
6	59	7.3
72	60	7.2

1319

300'

W =

E side of Shafter st (67)

72	51	8.1
66	48	8.4
"	48	8.4
6	44	8.8
"	33	9.9
6	37	9.5
52	35	9.7

W side of Shafter st

52	10	12.2
6	12	12.0
"	17	11.5
6	20	11.2
"	23	10.9
6	26	10.6
72	31	10.1

1319

50' W

n2		1.6	11.6
bl		1.4	11.8
y		0.8	12.4
l		0.5	12.7
y		0.0	13.2
T.R	1220	<u>2524</u>	0.5 13.04
bl		1.7	13.5
S2		1.3	13.9
	100	W of	Stops
S2		9.8	15.4
bl		10.0	15.2
y		10.2	15.0
l		10.8	14.4
y		11.7	13.8
bl		11.8	13.4
n2		11.9	13.3

2524

150 W of

Stops

68

n2		10.0	15.2
bl		9.6	15.6
y		9.3	15.9
l		8.9	16.4
y		8.5	16.7
bl		7.8	17.4
S2		7.6	17.6
	200	W of	Stops
S2		5.2	20.0
bl		5.4	19.8
y		5.9	19.3
l		6.4	18.8
y		6.9	18.3
bl		7.5	17.7
n2		7.5	17.7

258 W of Shopte st

m2	26	22.6
ll	24	22.8
y	24	22.8
b	22	23.0
y	21	23.1
ll	15	23.7
SL	15	23.7
TP	1000	34.73
	051	24.73

300' W = SL of Sand st

SL	57	29.0
ll	44	30.3
y	41	30.6
b	46	30.1
y	48	29.9
ll	50	29.7
m2	70	27.7

This Interdiction + the next Block are being excavated for gravel

W line of Rosecrans st

69  
# 50 W NW 6

284 67/4 6430

SL	116	55.5
ll	117	55.4
y	115	55.6
b	115	55.6
y	118	55.3
ll	113	55.8
SL	114	55.7

4 W of Rosecrans st

SL	02	66.9
ll	01	67.0
y	08	66.3
b	19	65.2
y	25	64.6
ll	28	64.3
m2	29	64.2

	50	wt	wt	wt	wt
				67.4	
			wt	wt	wt
nl			29	64.2	
ll			24	64.7	
7			08	66.3	
6			05	66.6	
7			08	66.3	
ll			08	66.3	
sl			07	66.4	
	100	wt	wt	wt	wt
			of	of	of
			wt	wt	wt
sl			+08	67.9	
ll			+08	67.9	
7			+00	67.1	
6			12	65.9	
7			11	66.0	
ll			13	65.8	
nl			20	65.1	
TP	1054		015	66.99	
				77.53	

	150	wt	wt	wt	wt
				77.53	
			wt	wt	wt
nl			108	66.7	
ll			105	67.0	
7			98	67.7	
6			95	68.0	
7			93	68.2	
ll			84	69.1	
sl			88	68.7	
	200	wt	wt	wt	wt
			wt	wt	wt
sl			63	71.2	
ll			63	71.2	
7			71	70.4	
6			79	69.6	
7			81	69.4	
ll			83	69.2	
nl			82	69.3	

I been

70

7753

250 W of Bunker

n2	68	70.7
ll	69	70.6
y	59	71.6
l	54	72.1
y	60	71.5
ll	65	71.0
sl	65	71.0

300 W - E 2 of Locust (n2)

sl	56	71.9
ll	55	72.0
y	54	72.1
l	53	72.2
y	53	72.2
ll	58	72.0
n2	53	72.2

7753

W 2 of Locust

71

n2	41	73.4
ll	41	73.4
y	40	73.5
l	41	73.4
y	42	73.3
ll	43	73.2
sl	38	73.7

50 W of Locust

sl	31	74.4
ll	34	74.1
y	37	74.3
l	30	74.5
y	30	74.5
ll	33	74.2
n2	36	73.9

7753

	100'	20 y	Locust	alt.
n2			40	73.6
ll			41	73.4
y			35	74.0
h			29	74.6
y			24	75.1
TP	725	8195	283	74.70
ll			69	75.1
SL			68	75.2
	150'	20	of Locust	
SL			63	75.7
ll			68	75.2
y			71	74.9
h			74	74.6
y			78	74.2
ll			84	73.6
n2			91	72.9

8195

8195

72

	200'	20 y	Locust	alt.
n2			84	73.6
ll			81	73.9
y			75	74.5
h			72	74.8
y			69	75.1
ll			67	75.0
SL			65	75.5
	250'	20	of Locust	
SL			73	74.7
ll			74	74.6
y			74	74.6
h			74	74.6
y			73	74.7
ll			80	74.0
n2			81	73.9

8195

300 W = 82 y Elevation (20)

n2	79	74.1
ll	79	74.1
y	75	74.5
l	71	74.9
y	71	74.9
ll	77	74.0
sl	80	74.0

W side of Elevation

sl	81	72.9
ll	86	73.4
y	82	73.8
l	79	74.1
y	75	74.5
ll	71	74.9
n2	66	75.4

8195

50 W y Elevation

73

n2	66	75.4
ll	72	74.8
y	77	74.3
l	78	74.2
y	81	73.9
ll	82	73.8
sl	84	73.6

100 W y Elevation

sl	68	75.2
ll	62	75.8
y	57	76.3
l	60	76.0
y	62	75.8
ll	62	75.8
n2	57	76.3

8195

150' W of Elm

n2	40	78.0
th	39	78.1
γ	40	78.0
h	45	77.5
γ	47	77.5
th	52	76.8
SL	54	76.6

200' W of Elm = Pueblo line as located

SL	40	78.0
th	39	78.1
γ	36	78.4
h	35	78.5
γ	32	78.8
th	31	78.9
	29	79.1

8195

262' W = Pueblo line as plotted

74

n2	17	80.3
th	15	80.5
γ	17	80.3
h	21	79.9
γ	25	79.5
th	27	79.3
SL	27	79.6

Cross-section of James St (70)

E 2 y Tid to W Public Lin

13m in

1196 1053 -143

E Lin of Tid St

x n2

118 -1.3

h

119 -1.4

y

119 -1.4

x b

119 -1.4

y

119 -1.4

h

119 -1.4

x S2

119 -1.4

50' W of Tid

S2

117 -1.2

h

117 -1.2

y

118 -1.3

b

118 -1.3

y

118 -1.3

h

118 -1.3

n2

117 -1.2

1053

James

75

100' W of Tid St

22

110 -0.5

h

110 -0.5

2

111 -0.6

b

110 -0.5

y

111 -0.6

h

110 -0.5

S2

108 -0.3

130' W of Tid

S2

100 0.5

h

99 0.6

y

102 0.3

b

103 0.2

y

103 0.2

h

104 0.1

n2

104 0.1

1053

200' W of

	Tide	st
n2	94	1.1
ll	90	1.5
7	89	1.6
1	90	1.5
7	90	1.5
ll	98	1.1
S2	88	1.7

250' W

S2	62	4.3
ll	62	4.3
7	65	4.0
6	67	3.8
7	74	3.1
ll	74	3.1
n2	75	3.0

1053

300' W = E. line of Shapth (20) 76

n2	51	5.4
ll	37	5.4
7	48	5.7
6	46	5.9
7	46	5.9
ll	43	6.2
S2	42	6.2

within of Shapth st

S2	25	8.0
ll	24	8.1
7	24	8.1
6	26	7.9
7	25	8.0
ll	25	8.0
n2	25	8.0

1053

	50	w f	Shafts	
nl			05	10.0
ll			05	10.0
"			06	9.9
l			08	9.7
"			08	9.7
ll			09	9.6
sl			10	9.5

TP 1210 2247 016 10.37

	100	w f	Shafts	
sl			114	11.1
ll			110	11.5
"			105	12.0
l			105	12.0
"			105	12.0
ll			104	12.1
nl			104	12.1

2247

James

77

	130	w f	Shafts	
nl			83	14.2
ll			83	14.2
"			83	14.2
l			85	14.0
"			87	13.8
ll			89	13.6
sl			91	13.4

200 w f Shafts

sl			65	16.0
ll			63	16.2
"			62	16.3
l			60	16.5
"			59	16.6
ll			59	16.6
sl			59	16.6

2247

	250	n	of	height
n2		33		19.2
hh		33		19.2
7		34		19.1
h		36		18.9
7		40		18.5
hh		37		18.8
SR		35		19.0

TP 1256 3478 0.25 2222

300 n = 824 Seed (20)

SR	126	22.2
hh	127	22.1
4	128	22.0
h	129	21.9
4	130	21.8
hh	130	21.5
n2	133	21.5

3478

James

	Main	n	of	Seed
n2		89		25.9
hh		85		26.3
7		75		27.3
h		73		27.5
7		49		27.9
hh		65		28.3
SR		61		28.7

50 n of Seed

SR	31	31.7
hh	36	31.2
7	42	30.6
h	50	29.8
4	57	29.1
hh	61	28.7
n2	62	28.6

3478

100 w of Scott st

n2		62	28.6
H		49	29.9
Y		41	30.7
L		35	31.3
Y		27	32.1
H		19	32.9
SL		10	33.8

TP 11.06 4572 01V 34.66

150 w of Scott st

SL		84	37.3
H		98	35.9
Y		111	34.6
L		128	32.9
Y		141	31.6
H		145	31.2
n2		155	30.2

4572

175 w of Scott st

n2		134	32.3
H		132	32.4
Y		115	34.2
L		105	35.2
Y		77	38.0
H		57	40.0
SL		45	41.2

200 w of Scott st

SL		22	43.5
H		22	43.5
Y		29	42.8
L		38	41.9
Y		60	39.1
H		80	37.7
n2		94	36.3

4572

220 W of Scott St

n2			30	42.7
H			22	43.5
y			209	44.8
TP	1055	5611	016	45.56
b			102	45.9
y			90	47.1
bb			90	47.1
SL			84	47.7

250 W of Scott St

SL			75	48.6
H			78	48.3
y			77	48.2
b			87	47.4
y			93	46.8
H			102	45.9
n2			115	44.6

5611

James

300 W - E line of Rosecrans (100') (Graded)

n2			88	47.3
H			87	47.4
y			82	47.9
b			76	48.5
y			75	48.4
H			71	49.0
SL			67	49.4

405

33.98  
 8.19  
 25.79

14.67  
 15.72  
 0.25  
 15.47  
 5.17  
 20.63  
 3.71  
 16.92

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	28.52	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