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Pencil
ENGINEER'S
BOOK

F.B.407

H. S. CROCKER COMPANY

DRAWING MATERIALS AND
SURVEYING INSTRUMENTS

SAN FRANCISCO

407

TABLES FOR EXCAVATIONS AND EMBANKMENTS

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING

Roadway 18 Feet Wide. Side Slopes 1 to 1.
For Single Track Excavation.

"Copyright, 1895, by Kueffel & Esser Co."

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

6.04
3.98
2.06

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34

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FROM
Loring's Book Store

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Bench M

~~B.M. Top of pole Portland + Grand~~

29.44

~~B.M. Top of iron pipe S.E. Cor Beryl + Lamont~~

10' E of S.E. Cor on hub 161.08 ~~160.00~~

Morell + Grand N.E. Cor. spike in pole

45.41.3

Grades - Beryl St - Lamont St - 200' E

	2.19			161.08	
0+0	2.19	163.27	2.52	160.75	F-1'
+50			3.17	160.10	F-0.50'
1+00			3.82	159.45	F-1.00
+50			4.47	158.80	F-1.00
2+00			5.12	158.15	F-0.50'

Whittlesey }
 Colbath } July 30
 Deziel } 1908.

Whittelsey }
 Colbath } July 30
 Deziel } 1908

X sections Dry - Are = 125' Wide

50' E. of Pendleton

Pendleton St East.

E.P.L. of Pendleton

N.P.L.			30.53
T.P.	0.57	31.10	7.69 23.41
B.M.	3.38	26.79	11.31 15.48
S.P.L.	2.99	18.47	4.60
C			4.40 14.1
+7			3.80 14.7
1/4			2.70 15.8
+4			1.00 17.5
+7			2.50 16.0
+8			3.70 14.8
4' set ctr N. Rail			2.70 15.8
±			3.60 14.9
+3			1.20 17.3
+8			2.70 15.8
1/4			2.60 15.9
C			1.90 16.6
N. R.L.			11.20 17.3

Spit into N. Side of Tract
 ± E. Line of Pendleton

N.P.L.
 N C
 1/4
 +14
 +20
 ±
 +5
 N. Rail
 +15
 +18
 1/4
 C
 S.P.L.

18.47	2.50	16.0
	3.20	15.3
	3.90	15.6
	4.00	14.5
	2.10	16.4
	4.60	13.9
	3.70	14.8
	4.50	14.0
	2.70	15.8
	4.40	14.1
	5.10	13.4
	5.90	12.6

100' E. of Pendleton

S.P.L.
 C
 +17
 1/4

6.40	12.1
6.20	12.3
5.90	12.6
4.00	14.5

POSTED

100' E Cont

+5	18.47	4.00	14.5
+6		5.70	12.8
+16 N. Rail		4.70	13.8
♀		5.60	12.9
+4		2.80	15.7
+9		5.30	13.2
1/4		4.80	13.7
C		4.40	14.1
N.P.L.		4.10	14.4

150' E. of Pendleton

N.P.L.		5.60	12.9
C		6.00	12.5
1/4		6.20	12.3
+11		6.40	12.1
+18		3.50	15.0
♀		6.60	11.9
+5 Rail		5.70	12.8

+14	18.47	6.70	
+15		5.40	13.1
+19		5.20	13.3
1/4		6.70	11.8
C		7.70	10.8
S.P.L.		7.90	10.6

200' E of Pendleton

S.P.L.		9.50	9.0
C		9.20	9.3
+17		9.40	9.1
1/4		8.20	10.3
+2		6.00	12.5
+5		7.30	11.2
+6		7.80	10.7
+16 N. Rail		6.80	11.7
♀		7.90	10.6
+4		6.60	11.9

200' E cont

+14	18.47	9.40	9.1
1/4		8.70	9.8
C		8.00	10.5
N.P.L.		7.20	11.3

250' E of Pendleton

N.P.L.		9.10	9.4
C		9.90	8.6
1/4		10.20	8.3
+11		10.10	8.4
+16		8.00	10.5
+20		8.10	10.4
Φ		9.20	9.3
+5 N. Rail		8.00	10.5
+14		9.00	9.5
+15		8.70	10.3
1/4		9.30	9.2
Rb		10.50	8.0
C		10.70	7.8
S.P.L.		10.90	7.6

300' E of Pendleton

S.P.L.	18.47	11.90	
C		11.90	6.6
+18		11.70	6.8
1/4		10.30	8.2
+7		9.30	9.2
+16 Rail		8.80	9.7
Φ		9.40	9.1
+5		9.60	8.9
+10		11.00	7.5
1/4		11.20	7.3
Φ		10.70	4.8
N.P.L.		10.60	7.9

350' E of Pendleton

N.P.L.	11.00	7.5
C	11.80	6.7
1/4	11.90	6.6
+11	11.70	6.8
+16	9.70	8.8

350'

Φ	18.47	10.00
+5 N Rail		9.50
1/4		10.50
+6		13.30
C		13.50
S.P.L.		13.00

397' E of Pendleton Cont'd = E. End

S.P.L.		14.60
C		14.50
+12		14.10
1/4		11.00
+12		10.50
+16 N Rail		9.90
Φ		10.40
+4		10.40
+14		13.70
1/4		13.80

397' E of Pendleton Cont'd

C	18.47	13.70	4.8
N.P.L.		12.90	5.6

POSTED

X sections OLIVER AVE.

- Noyes to Dawes -

Whitelsey } Jul. 31
Colbath } 1908
Dozier }

Oliver = 50' Wide - x 20 x 10 x 10 x 20 x

Now 45.41

T.P.L. 2.10 47.51 12.07 35.44

" 2.46 37.90 12.20 25.70

" 1.47 27.17 12.61 14.56

" 1.33 15.89

E.P.L. of Noyes

N.P.L. 15.89 16.80 - 0.90

C 15.9 17.30

1/4 17.20

1/4 16.90 - 1.00

1/4 17.50

S.C. 17.70

S.T.P.L. 17.60 - 1.70

E.C.L. of Noyes

S.T.P.L. 16.89 17.40 - 1.50

C 17.20

1/4 16.80

1/4 16.50 - 0.60

1/4 16.10

C 16.30

N.P.L. 15.90 0.00

E 1/4 of Noyes

N.P.L. 14.80 1.10

C 15.40

1/4 15.50

1/4 15.60 0.30

1/4 15.90

C 16.20

S.T.P.L. 16.80 ~~16.90~~

E of Noyes

S.P.L.	15.89	15.20	0.70
C		14.80	
1/4		14.50	
Q		14.20	1.70
1/4		14.20	
C		14.40	
N.P.L.		14.20	1.70

W 1/4 of Noyes

N.P.L.		13.40	2.50
C		13.70	2.20
1/4		13.50	
Q		13.20	2.70
1/4		13.70	
C		14.20	
S.P.L.		14.10	1.80

W.C.L. of Noyes

S.P.L.	15.89	13.50	2.40
C		13.30	
1/4		12.90	
Q		12.50	3.40
1/4		12.60	
C		13.20	
N.P.L.		12.70	3.20

W.P.L. of Noyes

N.P.L.		10.90	5.00
C		11.30	
1/4		11.10	
Q		11.10	4.80
1/4		11.60	
C		12.50	
S.P.L.		12.50	3.40

50' W. of Noyes

S.T.L.	15.89	10.20	5.70
C		9.90	
1/4		9.10	
ϕ		9.30	6.60
1/4		8.50	
C		8.50	
N.P.L.		7.80	8.10

100' W of Noyes

N.P.L.		5.30	10.60
C		5.80	
1/4		6.20	
ϕ		6.40	9.50
1/4		7.20	
C		8.10	
S.T.L.		8.40	7.50

150' W. of Noyes

S.T.L.	15.89	7.40	8.50
C		7.10	
1/4		6.20	
ϕ		5.50	10.40
1/4		5.20	
C		4.60	
N.P.L.		3.60	12.30

200' W of Noyes

N.P.L.		3.30	12.60
C		4.30	
1/4		4.60	
ϕ		4.80	11.10
1/4		5.50	
C		6.00	
S.T.L.		6.20	9.70

250' W of Noyes

S.P.L.	15.89	5.50	10.40
C		5.30	
1/4		4.60	
Φ		3.90	12.00
1/4		3.70	
C		3.40	
N.P.L.		2.60	13.30

300' W of Noyes

N.P.L.		1.60	14.30
C		2.40	
1/4		2.40	
Φ		2.40	13.50
1/4		2.90	
C		3.40	
S.P.L.		4.00	11.90
T.P.		1.33	14.56

10.74 25.30

350' W of Noyes

S.P.L.	25.30	12.30	13.00
C		12.00	
1/4		11.60	
Φ		11.10	14.20
1/4		10.90	
C		10.70	
N.P.L.		9.60	15.70

400' W of Noyes

N.P.L.		8.70	16.60
C		9.30	
1/4		9.80	
Φ		10.30	15.00
1/4		11.10	
C		11.50	
S.P.L.		12.70	12.60

450' W of Noyes

S.P.L.	25.30	13.50	11.80
C		13.00	
1/4		12.50	
Q		11.70	13.60
1/4		10.50	
C		9.90	
N.P.L.		8.50	16.50

500' W of Noyes = E.P.L. of Morell

N.T.L.		9.20	16.10
C		10.90	
1/4		11.50	
Q		11.90	13.40
1/4		12.30	
C		12.30	
S.P.L.		12.90	12.40

E.C.L. of Morell

S.P.L.	25.30	12.20	13.10
C		12.30	
1/4		12.40	
Q		12.40	12.90
1/4		12.20	13.10
C		11.80	
N.P.L.		10.10	14.20

E 1/4 of Morell

N.P.L.		10.30	15.00
C		11.80	
1/4		12.20	
Q		12.30	13.00
1/4		12.00	
C		11.90	
S.P.L.		12.00	13.30

E of Morell

S.P.L.	25.30	11.60	13.70
C		11.40	
1/4		11.60	
E		11.60	13.70
1/4		11.90	
C		11.60	
N.P.L.		10.40	14.90

W 1/4 of Morell

N.P.L.		10.90	14.40
C		11.80	
1/4		11.80	
E		11.20	14.10
1/4		11.40	
C		11.40	
S.P.L.		11.00	14.30

W.C.L. of Morell

S.P.L.	25.30	10.40	14.90
C		11.40	
1/4		11.10	
E		10.80	14.50
1/4		11.60	
C		11.60	
N.P.L.		10.80	14.50

W.P.L. of Morell

N.P.L.		10.70	14.60
C		11.20	
1/4		10.90	
E		10.50	14.80
1/4		10.80	
C		10.20	
S.P.L.		8.40	16.90

50' W of Morell

S.P.L.	25.30	5.00	20.30
C		5.20	
1/4		5.40	
1/2		6.20	19.10
3/4		6.70	
C		7.80	
N.T.L.		9.00	16.30

100' W of Morell

N.T.L.		3.40	21.90
C		3.20	
1/4		2.40	
1/2		1.90	23.40
3/4		1.40	
C		1.00	
S.P.L.		0.00	25.30
T.T?		0.47	24.83

12.96 37.79

150' W. of Morell

S.T.P.L.	37.79	8.40	29.40
C		8.50	
1/4		8.80	
1/2		9.00	28.80
3/4		9.00	
C		9.80	
N.T.L.		10.40	27.40

200' W of Morell

N.T.L.		5.00	32.80
C		5.20	
1/4		4.80	
1/2		4.60	33.20
3/4		5.10	
C		5.50	
S.T.P.L.		5.20	32.60

250' W. of Morell

S.P.L.	37.79	1.10	36.70
C		1.60	
1/4		1.40	
Φ		0.80	37.00
1/4		1.20	
C		1.50	
N.P.L.		1.00	36.40

300' W. of Morell

N.P.L.	44.71	5.80	38.90
C		6.30	
1/4		6.10	
Φ		5.70	39.00
1/4		6.20	
C		6.60	
S.P.L.		6.40	38.30
T.P.	37.79	0.19	37.60

7.11 44.71

350' W. of Morell

S.P.L.	44.71	6.00	38.70
C		5.90	
1/4		6.20	
Φ		5.80	38.90
1/4		5.60	
C		5.60	
N.P.L.		5.20	39.50

400' W. of Morell

N.P.L.		5.10	39.60
C		5.70	
1/4		5.50	
Φ		5.40	39.30
1/4		5.60	
C		6.10	
S.P.L.		6.10	38.60

450' W. of Morell

S.T.L.	44.71	5.70	39.00
C		5.90	
1/4		5.40	
ϕ		5.10	39.60
1/4		5.30	
C		5.40	
N.T.L.		5.00	39.70

500' W. of Morell - E.T.L. of Lamont

N.T.L.	4.50	40.20	
C	4.90		
1/4	4.80		
ϕ	4.60	40.10	
1/4	5.00		
C	5.30		
S.T.L.	5.10	39.76	
T.P.	3.37	41.34	

11.63 52.97

W.T.L. of Lamont

S.T.L.	52.97	12.80	40.80
C		12.40	
1/4		12.40	
ϕ		12.60	40.40
1/4		12.40	
C		12.40	
N.T.L.		12.00	41.00

50' W. of Lamont

N.T.L.	11.80	41.20	
C	11.90		
1/4	11.90		
ϕ	12.00	41.00	
1/4	12.10		
C	12.10		
S.P.L.	12.30	40.70	

100' W of Lamont

S.P.L.	52.97	12.00	41.00
C		11.50	
1/4		11.50	
♀		11.60	41.40
1/4		11.60	
C		11.60	
N.P.L.		11.30	41.70

150' W of Lamont

N.T.L.		11.00	42.00
C		11.00	
1/4		11.10	
♀		11.20	41.80
1/4		11.20	
C		11.30	
S.P.L.		11.50	41.50

200' W of Lamont

S.P.L.	52.97	11.10	41.90
C		11.10	
1/4		11.00	
♀		10.90	42.10
1/4		10.90	
C		10.80	
N.P.L.		10.70	42.30

250' W of Lamont

N.P.L.		10.50	42.50
C		10.30	
1/4		10.40	
♀		10.10	42.90
1/4		10.30	
C		10.20	
S.P.L.		10.20	42.60

300' W. of Lamont

S.P.L.	52.97	9.10	43.90
☺		9.40	
1/4		9.60	
☺		9.90	43.10
1/4		9.80	
C		10.00	
N.P.L.		10.00	43.00

350' W. of Lamont

N.T.P.L.		9.40	43.60
C		9.30	
1/4		9.20	
☺		9.10	43.90
1/4		9.00	
C		8.90	
S.P.L.		8.90	44.10

400' W. of Lamont

S.T.P.L.	52.67	8.10	44.90
C		8.30	
1/4		8.30	
☺		8.30	44.70
1/4		8.20	
C		8.40	
N.T.P.L.		8.40	44.60

450' W. of Lamont

N.T.P.L.		7.20	45.80
C		7.00	
1/4		6.80	
☺		6.90	46.10
1/4		6.40	
C		5.80	
3' from S.P.L.		6.20	
S.P.L.		6.20	46.80

500' W. of Lamont = E.L. of Kendall

S.P.L.	52.97	5.00	48.00
C		4.90	
1/4		4.90	
∅		4.90	48.10
1/4		5.00	
C		5.00	
N.T.P.L.		5.00	48.00

W.P.L. of Kendall

N.T.P.L.		4.70	48.30
C		5.00	
1/4		5.00	
∅		5.00	48.00
1/4		4.90	
C		5.00	
S.P.L.		4.50	48.50

350' W. of Kendall

S.P.L.	52.97	5.00	48.00
C		4.60	
1/4		4.80	
∅		4.80	48.20
1/4		4.80	
C		4.70	
N.P.L.		4.50	48.50

100' W. of Kendall

N.P.L.		4.90	48.10
C		4.20	
1/4		4.60	
∅		4.50	48.50
1/4		4.70	
C		4.90	
S.P.L.		4.90	48.10
T.R.		3.51	49.46

6.97 56.43

150' W of Kendall

S.T.P.L.	56.43	8.00	48.40
C		7.80	
1/4		7.50	
2		7.30	49.10
1/4		7.10	
C		7.00	
N.P.L.		6.60	49.80

200' W of Kendall

N.P.L.		5.80	50.60
C		5.90	
1/4		6.00	
2		6.10	50.30
1/4		6.40	
C		6.70	
S.T.P.L.		6.80	49.60

250' W of Kendall

S.T.P.L.	56.43	6.00	50.40
C		5.60	
1/4		5.30	
2		5.20	51.20
1/4		5.10	
C		4.90	
N.P.L.		4.50	51.90

300' W of Kendall

N.T.P.L.		3.60	52.80
C		3.60	
1/4		3.80	
2		3.70	52.70
1/4		4.00	
C		4.50	
S.T.P.L.		4.60	51.80
T.T.P.		2.46	53.97

5.13 59.10

350' W. of Kendall

S.T.L.	59.10	6.10	53.00
C.		5.50	
1/4		5.20	
2		4.90	54.20
1/4		5.20	
C		5.10	
N.P.L.		4.70	54.40

400' W. of Kendall

N.P.L.		4.10	55.00
C		4.10	
1/4		4.40	
2		4.40	54.70
1/4		4.70	
C		5.00	
S.P.L.		5.40	53.70

450' W. of Kendall

S.T.L.	59.10	5.40	53.70
C		5.20	
1/4		5.10	
2		4.80	54.30
1/4		4.60	
C		4.30	
N.P.L.		4.00	55.10

500' W. of Kendall

N.P.L.		4.30	54.80
C		4.40	
1/4		5.00	
2		5.20	53.90
1/4		5.50	
C		5.80	
S.T.L.		6.00	53.10

409 #1

550' N. of Kendall

S.T.L.	59.10	6.50	52.60
C		6.30	
1/4		6.30	
♀		6.10	53.00
1/4		5.60	
C		5.40	
N.T.L.		5.00	54.10

600' W. of Kendall

N.T.L.	55.56	2.70	52.90
C	3.	3.00	
1/4		3.30	
♀		3.60	52.00
1/4		3.90	
C		4.20	
S.T.L.	3.27	52.57	1.60 51.00
T.P.		56.80	4.67 54.43
T.P.	1.13	55.56	6.26 49.30

20

650' W. of Kendall

S.T.L.	52.57	2.70	49.90
C		2.20	
1/4		2.00	1.90
♀		1.70	50.90
1/4		1.50	
C		1.30	
N.T.L.	55.56	3.40	51.80

700' W. of Kendall

N.T.L.		4.90	50.70
C		5.30	
1/4		5.50	
♀		5.70	49.90
1/4		5.90	
C		6.10	
S.P.L.	52.57	3.50	49.10

750' W of Kendall

S.P.L. 52.57 4.00 48.60

C 3.60

1/4 3.40

2 3.20 49.40

1/4 3.00

C 2.80

N.P.L. 58.56 5.50 50.10

800' W of Kendall

N.P.L. 6.20 49.40

C 6.50

1/4 6.60

2 6.50 48.80

1/4 6.90

C 7.10

S.P.L. 52.57 4.40 48.20

850' W of Kendall

S.P.L. 52.57 4.20 48.40

C 3.90

1/4 3.80

2 3.60 49.00

1/4 3.50

C 3.20

N.P.L. 58.56 6.10 49.50

900' W of Kendall

N.P.L. 6.30 49.30

C 6.70

1/4 6.90

2 7.10 48.50

1/4 7.30

C 7.50

S.P.L. 52.57 4.60 47.80

950' W of Kendall

S.P.L.	52.57	4.50	48.10
C		4.20	
1/4		4.10	
1/2		3.90	48.70
1/4		3.80	
C		3.60	

N.P.L.	55.56	6.30	49.30
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1000' W of Kendall

N.P.L.		6.30	49.30
C		6.50	
1/4		6.60	
1/2		6.70	48.90
1/4		6.80	
C		6.90	
S.P.L.	52.57	4.20	48.10

1050' W of Kendall

S.P.L.	52.57	4.40	48.20
C		4.00	
1/4		3.80	
1/2		3.60	49.00
1/4		3.40	
C		3.20	

N.P.L.	55.56	5.80	49.80
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1080' W of Kendall = E.P.L. of Broadway

N.P.L.		5.60	50.00
C		5.70	
1/4		5.80	
1/2		5.80	49.80
1/4		5.90	
C		5.90	
S.P.L.	52.57	3.00	49.60
T.P.		3.25	49.31

	6.02	55.33	
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W.P.L. of Broadway

S.P.L.	55.33	2.50	52.80
⊖		2.80	
1/4		2.80	
⊖		2.70	52.60
1/4		3.00	
⊖		3.40	
N.P.L.		3.50	51.80

50' W. of Broadway

N.P.L.		3.50	51.80
⊖		3.20	
1/4		2.60	
⊖		2.40	52.90
1/4		2.40	
⊖		2.50	
S.P.L.		1.90	53.40

100' W. of Broadway

S.P.L.	55.33	1.80	53.80
⊖		2.00	
1/4		2.30	
⊖		2.60	52.70
1/4		2.50	
⊖		2.50	
N.P.L.		3.80	51.50

150' W. of Broadway

N.P.L.		4.50	50.80
⊖		4.20	
1/4		3.70	
⊖		3.20	52.10
1/4		3.10	
⊖		2.90	
S.P.L.		2.00	53.30

200' W of Broadway

S.P.L.	55.33	3.20	52.10
C		3.60	
1/4		4.30	
1/2		4.60	50.70
3/4		4.80	
C		5.60	
N.P.L.		6.00	49.30

250' W of Broadway

N.P.L.		7.80	47.50
C		7.60	
1/4		7.10	
1/2		6.70	48.60
3/4		6.40	
C		6.20	
S.T.L.		5.00	50.30

300' W of Broadway

S.P.L.	55.33	7.50	47.80
C		8.10	
1/4		8.30	
1/2		8.70	46.60
3/4		9.20	
C		9.50	
N.P.L.		9.30	46.00

350' W of Broadway

N.P.L.		10.40	44.90
C		10.80	
1/4		10.30	
1/2		10.10	40.20
3/4		10.00	
C		10.00	
S.P.L.		8.90	46.40

400' W. of Broadway

S.P.L.	55.33	10.20	45.10
C		10.80	
1/4		10.80	
♀		10.60	44.70
1/4		10.90	
C		11.10	
N.P.L.		10.80	44.50

450' W. of Broadway

N.P.L.		10.90	44.40
C		11.30	
1/4		11.20	
♀		10.80	44.50
1/4		10.90	
C		10.90	
S.P.L.		10.90	44.40

500' W of Broadway = E.P.L. of Haines

S.P.L.	55.33	10.90	44.40
C		11.20	
1/4		11.20	
♀		11.00	44.30
1/4		11.20	
C		11.50	
N.P.L.		11.10	44.20
T.P.		10.93	44.40

E.C.L. of Haines

N.P.L.	4.65	46.06	1.80	44.30
C			2.50	
1/4			2.30	
♀			2.20	43.90
1/4			2.30	
♂			2.30	
S.P.L.			1.80	44.30

E. $\frac{1}{4}$ of Haines

S.P.L.	46.06	2.00	44.10
C		2.40	
$\frac{1}{4}$		2.40	
$\frac{1}{2}$		2.40	43.70
$\frac{1}{4}$		2.40	
C		2.50	
N.P.L.		2.00	44.10

 $\frac{1}{2}$ of Haines

N.P.L.		2.20	43.90
C		2.60	
$\frac{1}{4}$		2.40	
$\frac{1}{2}$		2.40	43.70
$\frac{1}{4}$		2.40	
C		2.60	
S.P.L.		2.20	43.90

W. $\frac{1}{4}$ of Haines

S.P.L.	46.06	2.30	43.80
C		2.70	
$\frac{1}{4}$		2.50	
$\frac{1}{2}$		2.50	43.60
$\frac{1}{4}$		2.60	
C		2.60	
N.P.L.		2.10	44.00

W.C.L. of Haines

N.P.L.		2.10	44.00
C		2.70	
$\frac{1}{4}$		2.60	
$\frac{1}{2}$		2.70	43.40
$\frac{1}{4}$		2.60	
C		2.80	
S.P.L.		2.50	43.60

W.P.L. of Haines

S.P.L.	46.06	3.00	43.10
C		3.00	
1/4		2.80	
ϕ		2.70	43.40
1/4		2.90	
C		3.00	
N.P.L.		2.50	43.60

50' W. of Haines

N.P.L.		3.30	42.80
C		4.10	
1/4		3.90	
ϕ		3.90	42.20
1/4		4.10	
C		4.40	
S.P.L.		4.30	41.80

100' W. of Haines

S.P.L.	46.06	5.90	40.20
C		5.90	
1/4		5.70	
ϕ		5.60	40.50
1/4		5.60	
C		5.70	
N.P.L.		5.20	40.90

150' W. of Haines

N.P.L.		7.50	38.60
C		8.10	
1/4		8.00	
ϕ		8.10	38.10
1/4		8.20	
C		8.50	
S.P.L.		8.50	37.60

200' W. of Haines

S.T.P.L.	46.06	11.60	34.50
C		11.70	
1/4		11.20	
1/2		11.10	35.00
1/4		11.10	
C		11.30	
N.T.P.L.		10.90	35.20
T.T.P.		12.22	33.84

250' W. of Haines

N.T.P.L.	1.05	34.89	3.70	31.20
C			4.00	
1/4			4.10	
1/2			3.80	31.10
1/4			3.80	
C			3.80	
S.T.P.L.			4.00	30.90

300' W. of Haines

S.T.P.L.	34.89	6.70	28.20
C		6.70	
1/4		6.60	
1/2		6.60	28.30
1/4		6.60	
C		6.70	
N.T.P.L.		6.40	28.50

350' W. of Haines

N.T.P.L.		7.90	27.00
C		8.50	
1/4		8.30	
1/2		8.50	26.40
1/4		8.50	
C		8.80	
S.T.P.L.		8.80	26.10

400' W. of Haines

S.P.L.	34.89	9.40	25.50
C		9.40	
1/4		9.10	
φ		9.00	25.90
1/4		8.90	
C		9.30	
N.T.L.		8.70	26.20

450' W. of Haines

N.T.L.		8.70	26.20
C		9.20	
1/4		9.10	
φ		9.20	25.70
1/4		9.50	
C		9.70	
S.P.L.		9.70	25.20

500' W. of Haines = E.P.L. of Gresham

S.P.L.	34.89	9.40	25.50
C		9.50	
1/4		9.20	
φ		8.90	26.00
1/4		8.70	
C		9.00	
N.T.L.		8.20	26.70

E.C.L. of Gresham

N.T.L.		8.10	26.80
C		8.90	
1/4		8.70	
φ		8.80	26.10
1/4		9.00	
C		9.20	
S.P.L.		9.40	25.50

E. 1/4 of Gresham

S.T.L.	34.89	9.30	25.60
C		9.00	
1/4		8.90	
☐		8.80	26.10
1/4		8.60	
C		8.70	
N.T.L.		8.00	26.90

☐ of Gresham

N.T.L.		7.80	27.10
C		8.70	
1/4		8.50	
☐		8.60	26.30
1/4		8.70	
C		9.10	
S.T.L.		9.40	25.50

W. 1/4 of Gresham

S.T.L.	34.89	9.20	25.70
C		8.90	
1/4		8.60	
☐		8.40	26.50
1/4		8.40	
C		8.40	
N.T.L.		7.70	27.20

W.C.L. of Gresham

N.T.L.		7.70	27.20
C		8.50	
1/4		8.40	
☐		8.40	26.50
1/4		8.50	
C		8.90	
S.T.L.		9.00	25.90

W.T.P.L. of Gresham

S.T.P.L.	34.89	8.80	26.10
C		8.80	
1/4		8.40	
2		8.30	26.60
1/4		8.20	
C		8.20	
N.T.P.L.		7.50	27.40

50' W. of Gresham

N.T.P.L.		7.20	27.70
C		7.90	
1/4		7.80	
2		7.90	27.00
1/4		8.10	
C		8.40	
S.T.P.L.		8.60	26.30

S. 100' W. of Gresham

S.T.P.L.	34.89	8.30	26.60
C		8.10	
1/4		7.50	
2		7.40	27.60
1/4		7.40	
C		7.60	
N.T.P.L.		6.90	28.00

150' W. of Gresham

N.T.P.L.		6.70	28.20
C		7.30	
1/4		7.20	
2		7.30	27.60
1/4		7.50	
C		7.90	
S.T.P.L.		8.20	26.70

200' W. of Gresham

S.P.L.	34.89	8.00	26.90
C		6.00	
1/4		7.50	
1/2		7.40	27.50
3/4		7.40	
C		7.50	
N.T.L.		7.00	27.90

250' W. of Gresham

N.T.L.		7.90	27.00
C		8.00	
1/4		8.00	
1/2		8.10	26.90
3/4		8.30	
C		8.60	
S.P.L.		8.60	26.30

300' W. of Gresham

S.P.L.	34.89	9.60	25.30
C		9.40	
1/4		9.00	
1/2		9.00	25.90
3/4		9.00	
C		9.30	
N.T.L.		9.10	25.80
T.T.P.		10.10	24.99

350' W. of Gresham

N.T.L.	2.18	26.97	2.20	24.86
C			2.40	
1/4			2.30	
1/2			2.40	24.60
3/4			2.40	
C			3.00	
S.P.L.			2.70	24.30

400' W. of Gresham

S.P.L.	26.97 27.0	4.10	22.90
C		3.80	
1/4		3.60	
♀		3.50	23.50
1/4		3.30	
C		3.30	
N.P.L.		3.00	24.00

450' W. of Gresham

N.P.L.		3.50	23.50
C		4.00	
1/4		4.00	
♀		4.10	22.90
1/4		4.30	
C		4.90	
S.P.L.		5.20	21.80

500' W. of Gresham = E.P.L. of Fandel

S.P.L.	26.97	5.40	21.60
C		5.10	
1/4		4.70	
♀		4.40	22.60
1/4		4.60	
C		4.50	
N.P.L.		4.20	22.80

E.C.L. of Fandel

N.P.L.		4.40	22.60
C		4.60	
1/4		4.90	
♀		5.00	22.00
1/4		5.20	
C		5.50	
S.P.L.		5.90	21.10

E. 1/4 of Fanuel

S.P.L.	26.97	5.90	21.10
C		5.70	
1/4		5.40	
2		5.20	21.80
1/4		5.00	
C		4.80	
N.P.L.		4.80	22.20

E of Fanuel

N.P.L.		4.60	22.40
C		4.80	
1/4		5.00	
2		5.20	21.80
1/4		5.40	
C		5.60	
S.P.L.		6.10	20.90

W. 1/4 of Fanuel

S.P.L.	26.97	6.20	20.80
C		5.90	
1/4		5.60	
2		5.30	21.70
1/4		5.20	
C		5.00	
N.P.L.		4.80	22.20

W.C.L. of Fanuel

N.P.L.		5.00	22.00
C		5.20	
1/4		5.30	
2		5.50	21.00
1/4		5.80	
C		6.10	
S.P.L.		6.30	20.70

N.P.L. of Fanuel

S.P.L.	26.97	6.70	20.30
E		6.20	
1/4		6.00	
2		5.70	21.30
1/4		5.60	
C		5.60	
N.P.L.		5.40	21.60

50' W. of Fanuel

N.P.L.		6.00	21.00
C		6.20	
1/4		6.10	
2		6.40	20.60
1/4		6.70	
C		6.80	
S.P.L.		7.00	20.00

100' W. of Fanuel

S.P.L.	26.97	7.70	19.30
C		7.10	
1/4		7.00	
2		7.00	20.00
1/4		6.80	
C		6.70	
N.P.L.		6.20	20.80

150' W. of Fanuel

N.P.L.		6.80	20.20
C		6.90	
1/4		7.10	
2		7.20	19.80
1/4		7.50	
C		7.70	
S.P.L.		8.00	19.00

200' W. of Fanuel

S.T.L.	26.97	8.70	16.30
C		7.90	
1/4		8.00	
2		8.00	19.00
1/4		7.90	
C		7.50	
N.T.L.		7.10	19.90

250' W. of Fanuel

N.T.L.		7.80	19.20
C		8.20	
1/4		8.60	
2		8.50	18.50
1/4		8.80	
C		8.80	
S.T.L.		9.20	17.80

300' W. of Fanuel

S.T.L.	26.97	9.70	17.30
C		9.30	
1/4		9.10	
2		8.80	18.20
1/4		8.80	
C		8.50	
N.T.L.		8.30	18.70

350' W. of Fanuel

N.T.L.		8.90	18.10
C		9.10	
1/4		9.40	
2		9.60	17.40
1/4		9.70	
C		9.90	
S.T.L.		10.20	16.80

400' W. of Faruel

S.T.L.	26.97	10.60	16.40
C		10.50	
1/4		10.60	
2		10.30	16.70
1/4		10.10	16.60
C		10.00	16.50
N.T.L.		9.80	17.50
T.P.		9.40	17.57

450' W. of Faruel

N.T.L.	0.27	17.84	1.50	16.30
C			1.70	
1/4			1.80	
2			1.90	15.90
1/4			2.10	
C			2.20	
S.T.L.			2.50	15.30

500' W. of Faruel - E.P.L. of Ereets

S.T.L.	17.84	3.50	14.30
C		3.30	
1/4		3.10	
2		2.90	14.90
1/4		2.90	
C		2.90	
N.T.L.		2.40	15.40

E.C.L. of Ereets

N.T.L.		2.80	15.00
C		3.10	
1/4		3.10	
2		3.40	14.40
1/4		3.70	
C		3.80	
S.T.L.		4.00	13.80

E 1/4 of Everts

S.T.L.	17.84	4.10	13.70
C		4.00	
1/4		3.80	
Φ		3.40	14.40
1/4		3.30	
C		3.30	
N.T.L.		3.00	14.80

E of Everts

N.T.L.		3.30	14.50
C		3.50	
1/4		3.60	
Φ		3.60	14.20
1/4		4.00	
C		4.10	
S.T.L.		4.20	13.60

N. 1/4 of Everts

S.T.L.	17.84	4.40	13.40
C		4.20	
1/4		4.20	
Φ		3.90	13.90
1/4		3.70	
C		3.80	
N.T.L.		3.60	14.20

N.C.L. of Everts

N.T.L.		3.80	14.00
C		4.00	
1/4		3.90	
Φ		4.10	13.70
1/4		4.30	
C		4.50	
S.T.L.		4.80	13.00

W.P.L. of Everts

S.P.L.	17.84	5.00	12.80
C		5.00	
1/4		4.90	
2		4.60	13.20
1/4		4.30	
C		4.30	
N.P.L.		4.40	13.40

50' W of Everts

N.P.L.		5.40	12.40
C		5.40	
1/4		5.50	
2		5.60	12.20
1/4		5.90	
C		6.10	
S.P.L.		6.30	11.50

100' W. of Everts

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S.P.L.	17.84	7.40	10.40
C		7.40	
1/4		7.20	
2		7.10	10.70
1/4		7.00	
C		6.80	
N.P.L.		6.90	10.90

150' W of Everts

N.P.L.		8.00	9.80
C		8.20	
1/4		8.30	
2		8.30	9.50
1/4		8.50	
C		8.50	
S.P.L.		8.80	9.00

200' W. of Everts

S.P.L.	17.84	10.00	7.80
○		9.90	
1/4		9.80	8.00
Φ		9.60	
1/4		9.50	
○		9.40	
N.P.L.		9.00	8.80

250' W. of Everts

N.P.L.		10.20	7.60
○		10.60	
1/4		10.80	
Φ		11.00	6.80
1/4		11.10	
○		11.30	
S.P.L.		11.60	6.20

300' W. of Everts

S.P.L.	17.84	12.80	5.00
○		12.60	
1/4		12.30	
Φ		12.00	5.80
1/4		11.90	
○		11.80	
N.P.L.		11.30	6.50

350' W. of Everts

N.P.L.	1.77	8.43	2.60	5.80
○			2.90	
1/4			3.20	
Φ			3.40	5.00
1/4			3.70	
○			3.90	
S.P.L.			4.40	4.00

400' W of Everts

SPL	8.43	4.80	3.60
○		4.30	
1/4		4.20	
♀		4.00	4.40
1/4		3.90	
○		3.50	
N.P.L.		3.00	5.40

450' W of Everts

N.P.L.		3.20	5.20
○		3.70	
1/4		3.90	
♀		4.20	4.20
1/4		4.10	
○		4.60	
S.P.L.		5.00	3.40

500' W of Everts = E.L. Dawes

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SPL	8.43	4.70	3.70		
○		4.50			
1/4		4.30			
♀		4.00	4.40		
1/4		3.90			
○		3.70			
N.P.L.		3.50	4.90		
T.P.		4.67	3.56		
T.T.P.	5.82	9.38	4.01	5.37	
B.M.	0.97	6.34	2.40	3.94	3.98 L

POSTED

X sections Beryl St

Broadway to Kendall.

B.M. on hub - 10' E of S.E. Cor. ^{Beryl} Fairmont 161.08B.M. spike in Fence Bdy 35± N. of Chalcodon
107.90

T.P. 4.50 112.40 0.10 112.30

T.P. 12.90 125.20 0.34 124.86

B.M. 12.43 137.29 6.24 131.05
Hub N. W. 6
Bdy + Bery

T.P. 16.25 137.30 0.22 137.08

12.69 149.77

E.T.P.L. of Broadway

N.T.P.L. 149.77 8.50 141.3

C 11.20

1/4 12.50

2 13.70 136.1

1/4 14.70

C 16.50

S.T.P.L. 18.60 131.2

50' E of Broadway

S.T.L. 149.77 12.00 137.8

C 11.00

1/4 9.60

2 8.40 141.4

1/4 6.90

C 5.60

N.T.P.L. 3.10 146.7

T.P. 0.19 149.58

100' E of Broadway

N.T.P.L. 12.63 162.21 10.90 151.3

C 149.77 0.70

1/4 2.10

2 4.00

1/4 5.00

C 6.80

S.T.P.L. 7.60 142.8

POSTED
116.8

150' E of Broadway

S.P.L.	149.77	3.00	146.8
C		2.10	
1/4		0.40	
♀	162.21	11.30	150.9
1/4		10.10	
C		9.30	
N.P.L.		6.90	155.3

200' E. of Broadway

N.P.L.		3.40	158.8
C		6.00	
1/4		6.70	
♀		7.40	154.8
1/4		8.30	
C		10.00	
S.P.L.		10.70	151.5

250' E of Broadway

S.P.L.	162.21	6.90	153.3
C		7.60	
1/4		7.30	
♀		6.00	156.2
1/4		5.00	
C		4.00	
N.P.L.		1.40	160.8

300' E of Broadway

N.P.L.		0.40	161.8
C		3.10	
1/4		4.50	
♀		5.60	156.6
1/4		7.00	
C		7.80	
S.P.L.		9.00	153.2

350' E. of Broadway

S.P.L.	162.21	6.80	153.4
C		8.40	
+2		6.40	
+7		7.00	
1/4		6.70	
Q		5.70	156.5
1/4		4.80	
C		3.20	
N.T.P.L.		0.20	162.0

400' E. of Broadway

N.P.L.	167.65	5.00	162.6
C	162.21	2.70	
1/4		4.30	
Q		5.60	156.6
1/4		6.70	
+5		6.00	
+7		5.00	
C		5.00	
S.P.L.		5.20	154.0
T.P.		0.99	161.22

450' E. of Broadway

S.P.L.	6.43	167.65	13.40	154.22
C			13.30	
+3			11.30	
1/4			11.40	
Q			10.30	157.3
1/4			8.70	
C			7.20	
N.T.P.L.			3.40	161.22
B.M.			1.32	

Hub. N. W. Cor
Jewel + Beryl

500' E. of B'dy = N.T.P.L. of Jewel

N.P.L.			1.30	166.3
C			4.40	
1/4			6.40	
Q			8.20	159.4
1/4			10.20	
C			12.50	
S.P.L.			12.70	155.0

W.C.L. of Jewel

S.P.L.	167.65	12.20	155.5
C		12.00	
+3		10.50	
1/4		9.50	
Q		7.50	160.1
1/4		5.90	
C		4.20	
N.T.L.		1.00	166.6

W. 1/4 of Jewel

N.T.L.		1.00	166.6
C		4.00	
1/4		5.60	
Q		7.40	160.7
1/4		9.10	
C		11.60	
S.P.L.		11.80	165.8

Q of Jewel

S.P.L.	167.65	11.60	155.0
C		11.40	
1/4		8.80	
Q		7.10	160.5
1/4		5.40	
C		3.70	
N.T.L.		0.70	167.0

E. 1/4 of Jewel

N.T.L.		0.50	
C		3.50	
1/4		5.30	
Q		6.70	160.9
1/4		8.20	
C		11.00	
S.P.L.		11.40	

E. C. L. of Jewel

S.T.P.L.	167.65	11.00	156.6
C		10.70	
1/4		7.90	
2		6.40	161.2
1/4		4.80	
C		3.00	
N.T.P.L.		0.30	167.3

E. P. L. of Jewel

N.T.P.L.	0.20		167.4
C	2.80	1	
1/4	4.60		
2	6.10		161.5
1/4	7.40		
C	9.40		
S.T.P.L.	11.60		156.0

50' E of Jewel

S.T.P.L.	167.65	10.70	156.0
C		7.90	
1/4		5.50	
2		4.30	163.3
1/4		3.20	
C		2.10	
N.T.P.L.		0.40	167.2
T.T.P.		2.58	165.07

100' E. of Jewel

N.T.P.L.	7.21	172.28	3.70	168.6
C			4.60	
1/4			5.20	
2			6.40	165.9
1/4			7.80	
C			9.00	
S.T.P.L.			13.00	159.3

125' E. of Jewel

S.T.L.	172.28	12.90	159.4
C		6.90	
1/4		7.70	
2		6.00	166.3
1/4		4.80	
C		3.80	
N.T.L.		2.60	169.7

150' E. of Jewel

N.T.L.		2.40	169.9
C		4.50	
1/4		5.60	
2		6.90	165.4
1/4		8.10	
C		9.70	
S.T.L.		12.60	159.7

200' E. of Jewel

S.T.L.	172.28	14.30	158.0
C		11.30	
1/4		10.40	
2		9.30	163.0
1/4		7.80	
C		6.40	
N.T.L.		4.80	167.5

250' E. of Jewel

N.T.L.		7.50	164.8
C		9.20	
1/4		10.70	
2		12.20	160.1
1/4		14.70	
C		15.00	
S.T.L.		16.10	156.2

275' E. of Bevel

S.T.L.	172.28	15.60	156.7
C		14.40	
1/4		13.50	
♀		12.70	159.6
1/4		12.00	
C		11.10	
N.T.L.	9.50	162.8	

300' E. of Jewel

N.T.L.	7.10	165.2	
C	8.30		
1/4	8.90		
♀	10.10	162.2	
1/4	11.00		
C	12.40		
S.T.L.	14.40	157.9	

350' E. of Jewel

S.T.L.	172.28	11.80	160.5
C		9.80	
1/4		8.30	
♀		6.80	165.5
1/4		5.80	
C		4.70	
N.T.L.	3.70	162.6	

400' E. of Jewel

N.T.L.	0.90	171.4	
C	2.50		
1/4	3.50		
♀	4.70	167.6	
1/4	6.40		
C	7.40		
S.T.L.	10.20	162.1	

450' E of Jewel

S.T.P.L.	172.28	6.90	165.4
C		5.00	
1/4		3.90	
φ		2.30	170.0
1/4		1.10	
C	177.21	4.90	
N.T.P.L.		3.30	173.9
T.T.P.	172.26	0.27	172.01

500' E of Jewel = W.T.P.L. of Kendall

N.T.P.L.	5.20	177.21	0.20	177.0
C			2.30	
1/4			3.20	
φ			5.00	172.2
1/4			5.40	
C			6.90	
S.T.P.L.			8.50	168.7

W.C.L. of Kendall

S.T.P.L.	177.21	8.10	169.1
C		6.50	
1/4		4.60	
φ		3.70	173.5
1/4		3.00	
C		1.70	
N.T.P.L.		0.50	176.7

W. 1/4 of Kendall

N.T.P.L.		0.70	176.5
C		2.00	
1/4		3.40	
φ		3.90	173.3
1/4		5.20	
C		6.30	
S.T.P.L.		8.50	168.7

E of Kendall

S.P.L.	177.21	8.70	168.5
C		7.20	
1/4		5.70	
E		4.30	172.9
1/4		3.80	
C		2.40	174.8
N.P.L.		0.90	

E 1/4 of Kendall

N.P.L.	1.10	176.1
C	3.00	
1/4	4.30	
E	5.00	172.2
1/4	6.10	
C	7.30	
S.P.L.	9.20	168.0

E.C.L. of Kendall

S.P.L.	177.21	9.40	167.8
C		7.30	
1/4		6.10	
E		5.00	172.2
1/4		4.40	
C		3.40	
N.P.L.		1.50	175.7

E.P.L. of Kendall

N.P.L.	1.80	175.4
C	3.70	
1/4	4.90	
E	6.00	171.2
1/4	7.00	
C	8.10	
S.P.L.	9.90	167.3

Xsection of Beryl from

N.T.L. of Morell to Pendleton

T.P.	177.21	12.06	165.15
B.M.	1.58	166.73	11.53 155.20
	0.62	155.82	

Hub. N.W.
Cor. Beryl
& Morell

N.T.L. of Morell

N.T.L.	155.82	0.60	155.22
C		2.30	
1/4		3.50	
1/2		4.20	151.6
3/4		5.00	
C		5.90	
S.T.L.		7.20	149.6

W.C.L. of Morell

S.T.L.	155.82	7.80
C		6.80
1/4		5.60
1/2		5.40
3/4		4.20
C		3.70
N.T.L.		2.00

W. 1/4 of Morell

N.T.L.		2.40
C		4.10
1/4		4.80
1/2		5.50
3/4		5.80
C		7.20
S.T.L.		8.10

POSTED

E of Morell

S.P.L.	155.82	8.40
C		7.50
1/4		6.20
Q		5.90
1/4		5.10
C		4.50
N.P.L.		3.00

E. 1/4 of Morell

N.P.L.		3.70
C		5.60
1/4		6.00
Q		6.50
1/4		7.00
C		7.60
S.P.L.		9.10

E.C.L. of Morell

S.P.L.	155.82	9.10
C		8.50
1/4		8.00
Q		7.20
1/4		6.80
C		6.30
N.P.L.		4.60

E.T.L. of Morell

N.P.L.		5.80	150.0
C		6.80	
1/4		7.20	
Q		8.20	
1/4		9.10	
C		9.10	
S.P.L.		9.70	146.1

50' E. of Morell

S.T.L.	155.82	13.20	142.6
C		12.50	
1/4		11.90	
ϕ		11.20	
1/4		10.60	
C		9.80	
N.T.L.	8.60		147.2

100' E. of Morell

N.T.L.	8.30		147.5
C	8.80		
1/4	9.00		
ϕ	9.70		
1/4	10.60		
C	12.70		
S.T.L.	15.40		140.4

125' E. of Morell

S.T.L.	155.82	16.50	139.3
C		13.20	
1/4		11.20	
ϕ		9.60	
1/4		8.40	
C		7.80	
N.T.L.	7.10		148.7

150' E. of Morell

N.T.L.	9.40		146.4
C	10.40		
1/4	11.70		
ϕ	13.20		
T.P.	12.70		143.12
1/4	9.31	152.43	11.00
C			13.00
S.T.L.			16.10
			136.3

175' E of Morell

S.P.L.	152.43	17.30	135.1
C		15.20	
1/4		14.60	
ϕ		13.70	
1/4		12.60	
C		11.70	
N.P.L.		10.70	141.7

200' E of Morell

N.P.L.		10.90	141.5
C		12.30	
1/4		13.00	
ϕ		13.90	
1/4		14.80	
C		15.20	
S.P.L.		16.70	135.7

250' E of Morell

S.P.L.	152.43	16.40	136.0
C		15.30	
1/4		15.20	
ϕ		14.00	
1/4		12.90	
C		11.70	
N.P.L.		8.90	143.5

300' E of Morell

N.P.L.		5.40	147.0
C		7.60	
1/4		9.00	
ϕ		10.10	
1/4		11.60	
C		13.90	
S.P.L.		16.10	136.3

325' E of Morell

S.P.L.	152.43	15.40	137.0
C		12.20	
1/4		10.60	
1/2		8.90	
3/4		6.80	
C		5.30	
N.P.L.	2.70		149.7

350' E of Morell

N.P.L.	1.00		151.4
C		5.30	
1/4		7.40	
1/2		8.90	
3/4		10.00	
C		11.40	
S.P.L.	14.30		137.9

375' E of Morell

S.P.L.	152.43	15.10	137.3
C		12.60	
1/4		11.20	
1/2		10.70	
3/4		10.00	
C		9.40	
N.P.L.	8.70		143.7
T.T.	12.93		139.50

400' E of Morell

N.P.L.	5.10	144.60	10.90	133.7
C			9.80	
1/4			8.80	
1/2			7.60	
3/4			6.70	
C			7.10	
S.P.L.	9.20			135.4

4.25' E of Morell

S.P.L.	144.60	12.50	132.1
C		11.40	
1/4		11.60	
1/2		12.40	
3/4		13.10	
C		13.00	
N.T.P.L.		13.30	131.3

450' E of Morell

N.T.P.L.		12.30	132.3
C		13.10	
1/4		13.70	
1/2		13.80	
3/4		13.90	
C		13.70	
S.T.P.L.			

500' E of Morell = W.P. of Noyes

56'

S.T.P.L.	144.60	10.70	133.9
C		11.00	
1/4		10.90	
1/2		10.40	
3/4		10.20	
C		9.70	
N.P.L.	145.82	8.30	137.5
T.P.	144.60	10.65	133.95

Hub. S. W. 6r

Noyes + Bory

N.C.L. of Morell Noyes

N.P.L.	145.87	145.82	6.40
C			8.00
1/4			8.20
1/2			8.10
3/4			7.80
C			7.10
S.P.L.			6.20

W 1/4 of Noyes

S.T.P.L.	145.82	3.80
C		4.90
1/4		5.30
ϕ		5.70
1/4		6.10
C		6.40
N.P.L.		6.00

ϕ of Noyes

N.P.L.		4.70
C		4.90
1/4		4.40
ϕ		3.90
1/4		3.60
C		3.20
S.T.P.L.		2.30

E 1/4 of Noyes

S.T.P.L.	145.82	1.20
C		1.80
1/4		2.30
ϕ		2.50
1/4		2.80
C		3.20
N.P.L.		3.40
T.P.		0.72 145.10

E.C.L. of Noyes

N.P.L.		2.30
C		1.60
1/4		1.50
ϕ		1.20
1/4		1.00
C	12.29 157.39	12.00
S.T.P.L.		11.10

E. P. L. of Noyes

S.P.L.	157.39	7.60	149.8
C		9.30	
1/4		10.10	
¢		10.30	
1/4		10.20	
C		10.60	
N.T.P.L.		10.70	146.7
T.P.		0.29	157.10

50' E of Noyes

N.T.P.L.		3.50	153.9
C		2.50	
1/4		1.70	
¢		1.40	
1/4		0.80	
C	12.65	169.75	12.40
S.P.L.		11.20	158.6

75' E of Noyes

S.P.L.	169.75	6.40	163.4
C		7.00	
1/4		8.10	
¢		9.00	
1/4		9.80	
C		10.60	
N.T.P.L.		11.30	158.5

100' E of Noyes

N.T.P.L.		7.40	162.4
C		6.40	
1/4		5.80	
¢		5.10	
1/4		4.20	
C		3.20	
S.P.L.		1.50	168.3
T.P.		0.79	168.96

125' E of Noyes

[66.96]

S.P.L.	12.43	181.39	6.90	172.5
C			9.30	
1/4			9.50	
2			9.50	
1/4			10.40	
C			12.00	
N.T.L.			12.50	168.9

150' E of Noyes

N.T.L.			5.40	176.0
C			3.40	
1/4			2.50	
2			1.90	
1/4			2.90	
C			4.00	
S.P.L.			3.20	178.2
T.T.			0.99	180.40

175' E. of Noyes

S.P.L.	6.46	186.86	2.80	184.1
C			4.70	
1/4			4.90	
2			6.00	
1/4			6.80	
C			7.20	
N.T.L.			6.20	178.7

188' E of Noyes

N.T.L.			8.70	178.2
C			7.00	
1/4			6.30	
2			5.50	
1/4			4.80	
C			3.90	
S.P.L.			3.20	183.7

200' E of Noyes

S.T.L.	186.86	3.10	183.8
C		4.30	
1/4		5.00	
♀		5.60	
1/4		6.30	
C		7.00	
N.T.L.		6.40	176.5

225' E of Noyes

N.T.L.		9.20	177.7
C		7.80	
1/4		7.10	
♀		6.40	
1/4		5.90	
C		5.30	
S.T.L.		3.80	183.1

60

250' E of Noyes

S.T.L.	186.86	6.00	180.9
C		7.00	
1/4		7.70	
♀		8.10	
1/4		8.80	
C		9.50	
N.T.L.		10.30	176.6

275' E of Noyes

N.T.L.		11.30	175.6
C		11.20	
1/4		11.00	
♀		10.40	
1/4		10.20	
C		9.70	
S.T.L.		8.90	178.0

300' E of Noyes

S.T.L.	186.86	11.70	175.7
C		12.10	
1/4		12.20	
1/4		12.20	
1/4		12.40	
C		12.80	
N.T.L.	13.00		173.9
T.T.P.	12.24		174.62

325' E of Noyes

N.T.L.	2.01	176.63	4.20	172.4
C			3.70	
1/4			3.70	
1/4			3.80	
1/4			4.20	
C			4.10	
S.T.L.			4.10	172.5

350' E of Noyes

S.T.L.	176.63	5.70	170.9
C		5.50	
1/4		5.20	
1/4		4.80	
1/4		5.00	
C		5.10	
N.T.L.		5.80	170.8

400' E of Noyes

N.T.L.		7.60	169.0
C		7.20	
1/4		7.10	
1/4		6.90	
1/4		7.00	
C		7.00	
S.T.L.		8.50	168.1

5

450' E. of Noyes

S.P.L.	176.63	8.10	168.5
C		6.80	
1/4		6.00	
Φ		5.80	
1/4		5.80	
C		5.80	
N.P.L.	6.20	170.4	

500' E of Noyes = N.P.L. of Olney

N.P.L.	4.30	172.3
C	4.10	
1/4	4.20	
Φ	4.30	
1/4	4.40	
C	4.90	
S.P.L.	5.80	170.8

62

N.C.L. Olney

S.P.L.	176.63	4.70
C		4.00
1/4		3.60
Φ		3.70
1/4		3.50
C		3.50
N.P.L.		3.70

N 1/4 of Olney

N.P.L.	3.60
C	3.30
1/4	3.20
Φ	3.20
1/4	3.40
C	3.80
S.P.L.	3.20

E of Olney

S.P.L.	176.63	4.00
C		3.40
1/4		3.30
Q		2.90
1/4		3.00
C		3.10
N.P.L.		3.40

E 1/4 of Olney

N.P.L.		3.20
C		2.60
1/4		2.70
Q		2.70
1/4		2.90
C		3.20
S.P.L.		4.10

E.C.L. of Olney

S.P.L.	176.63	4.00
C		2.90
1/4		2.80
Q		2.70
1/4		2.70
C		2.60
N.P.L.		3.80

E.P.L. of Olney

N.P.L.		3.10	173.5
C		2.60	
1/4		2.50	
Q		2.40	
1/4		2.50	
C		3.10	
S.P.L.		3.90	172.7
T.P.		3.69	172.94

5 stake snails
 in top-S.P.L.
 Beryl-20' E
 of Olney

25' E. of Olney [172.94]

S.P.L.	3.21	176.15	3.30	172.9
C			2.80	
1/4			2.30	
φ			2.00	
1/4			1.80	
C			1.60	
N.T.L.			2.40	173.8

50' E of Olney

N.T.L.			2.50	173.7
C			2.00	
1/4			2.10	
φ			2.30	
1/4			2.50	
C			3.00	
S.T.L.			3.80	172.4

75' E of Olney

S.P.L.		176.15	4.30	171.9
C			3.90	
1/4			3.40	
φ			3.20	
1/4			3.10	
C			3.20	
N.T.L.			3.80	172.4

100' E of Olney

N.T.L.			4.90	171.3
C			4.60	
1/4			4.50	
φ			4.50	
1/4			4.90	
C			5.60	
S.T.L.			6.00	170.2

125' E of Diney

S.T.L.	176.15	7.00	169.2
C		6.80	
1/4		6.60	
φ		6.40	
1/4		6.30	
C		6.20	
N.T.L.		6.40	169.8

150' E of Diney

N.T.L.		8.60	167.6
C		8.30	
1/4		8.30	
φ		8.40	
1/4		8.30	
C		8.40	
S.T.L.		8.70	167.5

175' E. of Diney

S.T.L.	176.15	10.60	165.6
C		10.60	
1/4		11.20	
φ		11.50	
1/4		11.70	
C		11.60	
N.T.L.		12.20	164.0
T.T.		12.81	163.34

200' E of Diney

N.T.L.	0.68	164.02	4.50	159.5
C			4.50	
1/4			4.30	
φ			4.30	
1/4			4.20	
C			3.90	
S.T.L.			3.70	160.3

225' E of Olney

S.T.P.L.	164.02	7.40	156.6
C		7.40	
1/4		7.40	
Φ		7.40	
1/4		7.50	
C		7.40	
N.T.P.L.		7.00	157.0

250' E of Olney

N.T.P.L.	10.60		153.4
C	12.10		
1/4	13.00		
Φ	13.10		
1/4	13.40		
C	13.40		
S.T.P.L.	13.50		150.5
T.T.P.	12.25		151.77

275' E of Olney

S.T.P.L.	0.86	152.63	5.90	146.7
C			5.70	
1/4			5.30	
Φ			5.00	
1/4			5.20	
C			5.20	
N.T.P.L.			5.50	147.1

300' E of Olney

N.T.P.L.	11.50		141.1
C	12.00		
1/4	11.40		
Φ	10.60		
1/4	10.10		
C	9.60		
S.T.P.L.	9.60		143.0
T.T.P.	12.20		140.42

325' E of Olney [140.43]

S.P.L.	0.15	140.58	3.80	136.8
C			3.70	
1/4			5.00	
2			5.90	
1/4			6.00	
C			6.70	
N.T.P.L.			7.30	133.3

350' E of Olney

N.T.P.L.			18.30	122.3
C			16.00	
1/4			15.10	
2			14.00	
1/4			11.50	
C			11.60	
S.T.P.L.			10.10	130.5
T.P.			12.68	127.90

67

363' E of Olney 138.13

S.P.L.	0.42	128.32	2.90	125.4
C			4.90	
1/4			6.70	
2			6.00	
1/4			9.40	
C			10.40	
N.T.P.L.			11.70	116.7

375' E of Olney

N.T.P.L.			16.70	111.7
C			17.70	
1/4			16.30	
2			13.90	
1/4			12.90	
C			9.50	
S.P.L.			7.30	121.0
T.P.			11.91	116.41

400' E of Olney 116.41

S.T.L.	6.61	123.02	6.60	116.6
C			12.30	
1/4			13.70	
1/2			12.70	
3/4			12.50	
C			11.80	
N.T.L.			9.30	113.7

412 E of Olney

N.T.L.			6.00	117.0
C			8.90	
1/4			10.20	
1/2			11.50	
3/4			12.70	
C			14.00	
N.T.L.			13.80	109.2

425 E of Olney

S.T.L.		123.02	15.40	107.6
C			13.50	
1/4			12.10	
1/2			10.80	
3/4			9.50	
C			7.60	
N.T.L.			5.20	117.8

450 E of Olney

N.T.L.			2.20	120.8
C			3.70	
1/4			4.80	
1/2			7.00	
3/4			9.00	
C			10.90	
S.T.L.			14.70	108.3

475' E of Olney

S.P.L.	123.02	14.00	109.0
C		8.50	
1/4		5.60	
Q		3.80	
1/4		1.50	
T.T.		0.90	122.12
C	11.21	133.33	10.10
N.T.L.		6.90	126.4

500' E of Olney = W.P.L. of Pendleton

N.T.L.	2.20	131.1
C	5.60	
1/4	7.30	
Q	9.50	
1/4	11.40	
C	13.70	
S.P.L.	18.10	115.2

Hub. - Spruce
Beryl 20± E
of Noyes

B.M. Hub
N.W. Marshall
Beryl

	133.33	0.33	133.00		
	12.65	145.65	0.53	145.12	
	12.63	157.75	0.13	157.62	
	11.40	169.02	0.79	168.23	
	9.38	177.61	4.69	172.92	172.94
	3.44	176.38	12.56	163.82	
	2.87	166.69	11.47	155.22	-155.20
	10.22	165.42	12.38	153.04	
	0.33	153.37	10.11	143.26	-143.13

Xsection - Law St. Broad way
to Lamont - 80' Streets - 20' Walks

W.T.P.L. of Lamont [143.13]			
S.T.P.L.	9.80	152.93	9.50 143.4
C			8.60 144.3
1/4			8.40 144.5
1/2			7.60 145.3
3/4			7.20 145.7
C			6.80 146.1
N.T.P.L.			5.90 147.0

50' N. of Lamont.

N.T.P.L.			5.00 147.9
C			5.70
1/4			6.00
1/2			6.50 146.4
3/4			7.20
C			7.40
S.T.P.L.			8.40 144.5

POSTED

70

100' W of Lamont

S.T.P.L.	152.93	7.00	145.9
C			5.70
1/4			5.20
1/2			4.70 148.2
3/4			4.40
C			4.00
N.T.P.L.			3.10 149.8

120' W of Lamont

N.T.P.L.			1.70 151.2
C			3.10
1/4			3.30
1/2			3.90 149.0
3/4			4.40
C			4.80
S.T.P.L.			5.00
			4.46 148.47

POSTED

150' W of Lamont [46.42]

S.P.L.	7.40	155.87	7.50	149.4
C			7.30	
1/4			7.30	
1/2			6.00	149.9
3/4			5.20	
C			4.50	
N.T.L.			3.10	152.8

200' W of Lamont

N.T.L.			3.70	152.2
C			4.90	
1/4			5.60	
1/2			6.20	149.7
3/4			6.80	
C			7.10	
S.T.L.			7.70	148.2
T.T.			7.93	147.94

250' W of Lamont [147.94]

S.T.L.	5.13	153.37	6.20	147.2
C			5.10	
1/4			4.40	
1/2			3.40	150.0
3/4			3.00	
C			2.70	
N.T.L.			2.20	151.2

275' W of Lamont

N.T.L.			3.50	149.9
C			3.50	
1/4			4.00	
1/2			4.30	149.1
3/4			4.60	
C			5.10	
S.T.L.			6.00	147.4

POSTED

300' W of Lamont

S.P.L.	153.37	6.80	146.6
C		6.40	
1/4		6.40	
2		6.50	146.9
1/4		6.50	
C		6.50	
N.T.P.L.		6.20	147.2

P.L. 350' W of Lamont

N.T.P.L.		8.80	144.6
+15		10.30	
C		10.10	
1/4		10.30	
2		10.20	143.2
1/4		10.30	
C		10.60	
S.T.P.L.		11.30	142.1

400' W of Lamont

S.T.P.L.	153.37	13.70	139.7
C		14.10	
1/4		13.30	
2		12.60	140.8
1/4		12.00	
C		11.40	
N.T.P.L.		10.20	143.2
T.P.		11.92	141.40

POSTED

450' W of Lamont

N.T.P.L.	153.37	12.40	141.0
C	7.27	148.78	9.30
1/4		9.70	
2		10.40	138.3
1/4		10.90	
C		11.30	
S.T.P.L.		11.60	137.1

500' W of Lamont = E.P.L. of Kendall

S.P.L.	148.72	13.10	135.6
C		12.50	
1/4		12.10	
Φ		11.70	137.0
1/4		7.10	
C		10.50	
N.P.L.		9.10	139.6

E.C.L. of Kendall

N.P.L.	9.70
C	11.10
1/4	11.80
Φ	12.50
1/4	13.00
C	13.20
S.P.L.	14.20

E 1/4 of Kendall

S.P.L.	148.72	14.40
C		13.70
1/4		13.40
Φ		12.70
1/4		12.10
C		11.40
N.P.L.		10.40

Φ of Kendall

N.P.L.	10.20	
C	11.60	
1/4	12.50	
Φ	13.10	135.6
1/4	13.70	
C	14.20	
S.P.L.	14.70	

W 1/4 of Kendall

S.T.L.	148.72	147.0
C		14.20
1/4		14.00
2		13.30
1/2		12.80
C		12.00
N.P.L.		10.60

N.C.L. of Kendall

N.P.L.		11.30
C		12.60
		11.90
1/4		13.30
2		13.90
1/4		14.30
C		14.50
S.T.L.		15.10

W.P.L. of Kendall

S.T.L.	148.72	15.30	133.4
C		15.00	
1/4		14.80	
2		14.40	134.3
1/4		14.20	
C		13.50	
N.P.L.		12.00	136.7

50' W of Kendall

N.P.L.		13.40	135.3
C		14.20	
1/4		14.70	
2		15.00	143.7
1/4		15.30	
C		15.20	
S.T.L.		16.30	132.4

100' W of Kendall

S.P.L.	148.72	16.40	132.3
C		15.30	
1/4		15.30	
♀		14.60	134.1
1/4		14.60	
C		13.90	
N.P.L.		13.40	135.3

150' W. of Kendall

N.T.L.		12.60	136.1
C		13.00	
1/4		13.40	
♀		13.70	135.0
1/4		14.50	
C		14.90	
S.P.L.		16.20	132.5

200' W of Kendall

S.P.L.	148.72	15.80	132.9
C		14.70	
1/4		14.20	
♀		13.60	135.1
1/4		13.70	
C		12.40	
N.T.L.		11.30	137.4

250' W of Kendall

N.T.L.		10.90	137.8
C		11.60	
1/4		12.20	
♀		13.40	135.3
1/4		13.90	
C		14.80	
S.P.L.		16.20	132.5

300' W. of Kendall

S.P.L.	148.72	15.20	133.5
C		13.30	
1/4		18.40	
Q		11.70	137.0
1/4		10.80	
C		10.30	
N.P.L.		9.90	138.8

350' W of Kendall

	9.90		
	9.90		
N.P.L.	10.50		138.8
C	10.50		
1/4	11.00		
Q	11.60		
1/4	11.60		137.1
C	12.10		
	12.50		
S.P.L.	13.40		135.3

400' W of Kendall

S.P.L.	148.72	14.30	134.4
C		13.40	
1/4		13.20	
Q		12.60	136.1
1/4		11.80	
C		11.50	
N.P.L.		11.40	137.3

450' W. of Kendall

N.P.L.		11.40	137.3
C		10.90	
1/4		11.70	
Q		12.30	136.4
1/4		13.40	
C		13.30	
S.P.L.		14.40	134.3
T.T.		11.19	137.53

142

500' W of Kendall = F.P.L. of Jewell

S.P.L.	4.45	141.98	9.50	137.53 132.5
C			8.70	
1/4			7.90	
ϕ			7.90	134.1
1/4			8.00	
C			9.10	
N.P.L.			6.80	135.2

R.C.L. of Jewell

N.P.L.			9.00	133.0
C			8.70	
1/4			10.20	
ϕ			10.40	
1/4			10.80	
C			11.00	
S.P.L.			11.50	130.5

142

E 1/4 of Jewell

S.P.L.	141.98	12.30	129.7
C		11.80	
1/4		11.70	
ϕ		11.40	
1/4		11.30	
C		10.80	
N.P.L.		10.40	131.6

ϕ of Jewell

N.P.L.		10.60	131.4
C		11.40	
1/4		11.90	
ϕ		12.10	129.1
1/4		12.50	
C		12.70	
S.P.L.		13.20	128.8

142

w. 1/4 of Jewel

S.P.L.	141.98	13.60	128.4
C		13.70	
1/4		13.50	
1/2		13.10	
3/4		12.40	
C		11.60	
N.P.L.		10.60	131.4

W.C.L. of Jewel

N.P.L.	11.10	130.9
C	12.20	
1/4	12.70	
1/2	13.30	
3/4	14.40	
C	14.30	
S.P.L.	14.50	127.5

142

W.P.L. of Jewel

S.P.L.	141.98	14.70	127.3
C		15.10	
1/4		14.70	
1/2		14.10	127.9
3/4		13.10	
C		12.60	
N.P.L.		11.20	130.8

S.O.W of Jewel

N.P.L.	10.40	131.6
C	12.00	
1/4	13.20	
1/2	14.40	127.6
3/4	15.50	
C	16.30	
S.P.L.	18.20	123.8

Continued in Book 410 Page 1

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Bench Marks - Pacific Beach

Missouri

Bayard St N.E. Cor, spike in pole 48.244

(Oliver Ave) Broadway Brass Plug N.E. Cor

Grand + Bdy 55.847

Morell N.E. Cor spike pole 45.413

spike in Fence Post E. side of Bdy.

35 ± N. of Chalcedony 107.90

~~J. 195~~

~~5~~
~~124~~
~~12~~
~~142~~
~~110~~
~~28~~
~~82~~
~~156~~
~~238~~

R

~~124~~
~~115~~
~~64~~
~~177~~
~~88~~
~~28~~
~~50~~

J

~~112~~
~~103~~
~~84~~
~~167~~
~~56~~
~~223~~

~~75~~
~~116~~

120

~~104~~
~~28~~

132

~~128~~
~~42~~

86

95

135

153

155

56

211

189

50

135

15

104

44

15

62

120

~~128~~
~~14~~

114

122

143

125

105

96

98

25

67

111

138

129

80

110

101

120

128

114

110

131

140

120

111

110

82

150

262

240

267

258

330

366

387

J S R
 106 126 126
 120 102 138
 119 101 140
 30 16
 151 85 124
 16 32 16
 195 117 108
 145 126 90
 39 204 39
 106 200 51
 114 192 47
 15 51
 118 174 15
 36 33
 154

120 120 120
 123 123 114
 19 36
 105 159 96
 34 60 34
 71 227 62
 13 26 13
 253 49
 15 15
 235 38
 40 275 58
 50 31 58
 124 178 96
 40 20 20
 154 58 34
 172 66 34
 238 116 76
 243 40 86
 203 76 46
 283 36 24
 24 70
 13
 271

J 11111
 S 11111
 R 1

162.27
 12.63
 149.68

J.S.R.
 120 120 120
 180 90 90
 66 66
 114 24 122
 120 120 120
 26 152 94
 94 188 76
 76 144 74
 52

120 120 120
 108 144 108
 92 175 96
 50 150 67
 142 140 72
 147
 187 120 52
 193 108 58
 15 36
 211 126 22
 203 118 38
 46 30
 226 72 61
 82 41
 236 82 01
 140 50 67
 196 162 86
 33 33 86
 163 129 46
 130 33 24
 154 96 85
 92 24 194
 62 120 269
 72 28

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

FOR SINGLE TRACK EMBANKMENT.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.