

Level Notes.

Pacific Beach.

Book No. 2.

No
400

LEVEL BOOK

F.B. 178

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

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

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TABLE FOR RUNNING ON SLOPES.

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

Angle	COR. IN LINKS	Angle	COR. IN LINKS	Angle	COR. IN LINKS	Angle	COR. IN LINKS
0		0		0		0	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

See note on Page 41
Book No. 3
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Pacific Beach

Levels.

Book No 2

Aug. 1904

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LORNING
AND
785 5TH ST.

INDEX		Pages
Massachusetts Ave.	✓	2-10
Vermont	" ✓	11-24
Thomas	" ✓	25-38
Dawes	St ✓	39-43
Reed	Ave ✓	44-57
Evarts	St ✓	58-62
Faniel	" ✓	63-67
Gresham	"	68-72
Haines	"	72-77

New Names
Felspar
(Emerald)

G. J. Rummel Rod
 Lambert Chain

Aug. 24 04

	Broadway + Garnet.	±	H.I.	Elev.
B.M. Tel. Pole		+10.27	72.96	62.69
42				
+50				
43				
+50				
44				
+50				
45				
Ref		-3.15		
		+7.09	76.90	69.81
+50				
46				
+50				
+58 E. line Haines St.				
47				
+38 W " " "		-4.91	71.99	71.99
+50				
48				
+50				

N. Mass. Ave. S. 3

	Rod Elev	Rod Elev	Rod Elev	Rod Elev
	2.1	70.9	2.8	70.2
	3.9	69.1		
	1.7	71.3	2.5	70.5
	3.2	69.8		
	1.6	71.4	2.3	70.7
	3.2	69.8		
	1.7	71.3	2.4	70.6
	3.0	70.0		
	2.1	70.9	2.4	70.6
	2.8	70.2		
	2.4	70.6	2.6	70.4
	2.9	70.1		
	2.7	70.3	3.1	69.9
	3.6	69.4		
	6.4	70.5	7.2	69.7
	7.5	69.4		
	6.2	70.7	7.0	69.9
	7.3	69.6		
	6.4	70.5	6.6	70.3
	7.0	69.9		
	5.9	71.0		6.8
	7.0	70.1		
	5.5	71.4	6.0	70.9
	6.0	70.9		
	4.91	72.0		4.9
	7.2	72.0		
	4.7	72.2	4.8	72.1
	5.0	71.9		
	4.3	72.6	4.3	72.6
	4.4	72.5		
	4.1	72.8	4.3	72.6
	4.4	72.5		

Oppenheimer Rod
Lambert Chain

Aug 24. 04

	±	Hl.	Elev
49		76.90	
+50			
50			
Peg	-10.37		
+50	+1.26	67.79	66.53
57			
+50			
52			
+38 E. line Graham H			
+50			
53			
+18 W " " "			
+50			
54			
+50			
Peg	-11.48		
+50	+2.56	58.87	56.31
55			
+50			

Mass Ave

	N	C	S	4
	Rod Elev	Rod Elev	Rod Elev	
48	72.1	49 72.0	51 71.8	
60	70.9	52 71.7	65 70.4	
71	69.8	8.1 68.7	8.4 68.5	
04	67.4	0.8 67.0	1.3 66.5	
27	65.1	3.2 64.6	3.7 64.1	
50	62.8	5.7 62.1	6.4 61.4	
73	60.5	7.9 58.9	8.6 59.2	
89	58.9		10.0 57.8	
90	58.8	9.9 57.9	10.2 57.6	
98	58.0	10.6 57.2	11.3 56.5	
100	57.8		11.5 56.3	
107	57.1	11.2 56.6	12.1 55.7	
113	56.5	12.1 55.7	12.9 54.9	
115	56.3	12.5 55.3	13.1 54.7	
35	55.4	4.2 54.7	5.1 53.8	
43	54.6	5.1 53.8	5.9 53.0	

G. J. Runnie Rod
Lambert Chain

Aug. 24 '04

I H.I. Elev.

56		58.87	
+50			
57			
+50			
58			
+17.5	E. line Fanned St		
+50			
+97.5	W. " " "		
59			
+50			
Req.		-7.15 +1.02	52.74 51.72

Mass. Ave.

N		C		S 5	
Rod Elev.		Rod Elev.		Rod Elev.	
4.8	54.1	5.6	53.3	6.1	52.8
5.4	53.5	6.2	52.7	7.0	51.9
5.9	53.0	6.6	52.3	7.3	51.6
6.3	52.6	7.4	51.5	8.2	50.7
6.2	52.7	7.5	51.4	8.3	50.6
6.3	52.6			8.3	50.6
7.0	51.9	7.7	51.2	8.7	50.2
7.0	51.9			8.5	50.4
7.0	51.9	7.9	51.0	8.5	50.4
7.2	51.7	8.1	50.8	8.8	50.1
Quit Aug. 24 '04					
Began " 27					
1.3	51.4	2.2	50.5	3.0	49.7
1.6	51.1	2.4	50.3	3.4	49.3
1.7	51.0	2.6	50.1	3.5	49.2
2.1	50.6	2.8	49.9	3.8	48.9
2.6	50.1	3.3	49.4	4.1	48.6
3.1	49.6	3.8	48.9	4.5	48.2

By J. R. R. Rod
G. Lambert Chain

Aug. 27 04

± H.I. Elev.

63 52.74

+50

+97.5 E. line Everts St.

64+50

+77.5 W. " " "

Plug N.W. Cor. " -6.49 46.25

65

+50

66

+50

Peg -8.08
+0.21 44.87 44.66

67

+50

68

+50

69

+50

Mass. Ave.

S: 6

N. Rod Elev. C Rod Elev. S Rod Elev.

37 49.0 42 48.5 52 47.5

44 48.3 50 47.7 58 46.9

54 47.3 60 46.7 65 46.2

61 46.6 68 45.9 76 45.1

65 46.2 83 44.4

68 45.9 72 45.5 86 44.1

72 45.5 80 44.7 92 43.5

78 44.9 86 44.1 97 43.0

81 44.6 93 43.4 100 42.7

09 44.0 17 43.2 26 42.3

16 43.3 22 42.7 28 42.1

24 42.5 29 42.0 37 41.2

31 41.8 37 41.2 43 40.6

38 41.1 45 40.4 49 40.0

44 40.5 52 39.7 57 39.2

G. J. Kerner Rod
Glenhurst Chain

Aug 27 out
± H.I. Elev

69+76 E. line Daws St 44.87

Phy N.E. Cor. " " -4.66 40.27

70

+50

+56 W. line " "

71

+50

72

+50

Peg

-7.86

+1.47

38.48 37.01

73

+50

74

+50

75

+50

+56.5 E. line Cass St

76

Mass. Ave.

7

Rod Elev

Rod Elev.

Rod Elev.

4.7 40.2 " 6.1 38.8

4.9 40.0 5.9 39.0 6.6 38.3

5.8 39.1 6.6 38.3 7.3 37.6

5.8 39.1 " 7.4 37.5

6.2 38.7 7.1 37.8 8.0 36.9

6.6 38.3 7.6 37.3 8.3 36.6

7.4 37.5 8.2 36.7 8.8 36.1

7.9 37.0 8.6 36.3 9.3 35.6

1.7 36.8 2.5 36.0 3.0 35.5

2.0 36.5 2.7 35.8 3.4 35.1

2.4 36.1 3.0 35.5 3.7 34.8

2.8 35.7 3.4 35.1 4.3 34.2

3.0 35.5 4.2 34.3 4.8 33.7

4.2 34.3 4.9 33.6 5.5 33.0

4.2 34.3 " 5.5 33.0

4.8 33.7 5.6 32.9 6.3 32.2

G. J. Pennie Rod
G. Lambert Churn

Aug 27 04

Felspar Mass. Ave.

	±	H.I.	Elev.	N Rod Elev.	S Rod Elev.	S 8 Rod Elev.
76+36.5 W. line Cass St.		38.48	0.0	5.4	33.1	6.7 31.8
+50			0+15	5.6	31.9	6.3 32.2 6.9 31.6
77			0+65	6.3	32.2	7.0 31.5 7.4 31.1
+50			1+15	7.0	31.5	7.4 31.1 7.9 30.6
78			1+65	7.5	31.0	8.1 30.4 8.7 29.8
+50			2+15	8.2	30.3	8.8 29.7 9.4 29.1
Pay	-8.12 +0.77	31.13	30.36			
79			2+65	1.2	29.9	2.1 29.0 2.6 28.5
+50			3+15	1.7	29.4	2.4 28.7 3.2 27.9
80			3+65	2.3	28.8	3.1 28.0 3.5 27.6
+50			4+15	3.2	27.9	3.9 27.2 4.1 27.0
81			4+65	4.0	27.1	4.6 26.5 5.2 25.9
+36.5 E. line Bayard St.			5+00	4.6	26.5	5.0 26.5
+50				4.9	26.2	5.2 25.9 5.6 25.5
82				5.2	25.5	6.1 25.0 6.5 24.6
+16.5 W. " " "			0.0	5.7	25.4	6.8 24.3
Plug N. E. " " "	-4.59		26.54			
+50			6+35	6.3	24.8	7.0 24.1 7.3 23.8

G. J. Rimmer Rod		Aug. 27 04	
G. Lambert Chain			
	±	Ht.	Elev.
83		31.13	0+85
+58			1+35
Peg	-7.66 +0.97	24.44	23.47
84			1+85
+50			2+35
85			2+85
+50			3+35
86			3+85
+50			4+35
87			4+85
+16.5	E. line Allison Pt.		5+00
+50	Along Motor bank		
+55	Cut " track. Base of rail		
+96.5	W. line Allison Pt.		0.0
88			0+05
+50			0+55
Peg	-6.87 +7.31	24.88	17.57

Mass. Ave					
N.		C		S. 9	
Rod Elev.		Rod Elev.		Rod Elev.	
7.1	24.0	7.7	23.4	8.4	22.7
7.7	23.4	8.4	22.7	9.0	22.1
1.8	22.6	2.4	22.0	3.1	21.3
2.7	21.7	3.3	21.1	3.6	20.8
3.4	21.0	4.1	20.3	4.6	19.8
3.9	20.5	5.0	19.4	5.3	19.4
4.2	20.2	5.5	18.9	6.0	18.4
4.6	19.8	6.1	18.3	6.4	18.0
5.3	19.1	6.5	17.9	7.4	17.0
5.5	18.9			7.8	16.6
4.0	20.4	5.0	19.4	5.7	18.7
		4.4	20.0		
6.2	18.2			8.0	16.4
6.4	18.0	7.3	17.1	7.8	16.6
6.4	18.0	7.5	16.9	7.1	17.3

Sp. Rumm Rod
 G. Lambert Chain Aug. 27. 04

	±	H.I.	Elev
89		24.88	1405
+50			1455
90		24.05	
+50		24.55	
91		34.05	
+50		34.35	
92			
+10	Edge of Bank.		

Mass. Ave

	N	C		S 10	
	Rod Elev	Rod Elev	Rod Elev	Rod Elev	
	7.3	17.6	7.6	17.3	7.5 17.4
	6.6	18.3	6.6	18.3	6.6 18.3
	5.3	19.6	5.2	19.7	5.5 19.4
	4.0	20.9	4.8	20.1	5.3 19.6
	4.1	20.8	4.2	20.7	4.6 20.3
		21.2		21.0	20.5
	3.3	21.6	3.7	21.2	4.3 20.6
	3.0	21.9	2.5	22.4	4.2 20.7
	3.2	21.7	3.2	21.7	5.3 19.3

Vermont Ave
 S
 11
 Red Elev. Red Elev. Red Elev.

67.9	60	68.3	52	68.1	58
68.0	59		48	70.0	39
		69.1		70.4	35
			52	70.2	37
		68.2	57	69.9	42
66.4	74	68.0	59	70.1	38
67.1	68	68.3	52	69.8	41
65.9	80	67.8	61	69.3	46
65.2	87	67.3	65	69.1	48
65.4	85	68.0	59	70.1	38
63.1	108	66.1	78	68.5	54
64.6	93	66.3	76	67.9	60
68.0	59	69.7	42	70.1	38

Level on Vermont Ave
 Beginning at the end
 line of Penetration H. A
 running west to the ocean
 by Green Rod Aug. 25 04
 of student Chan
 F. H. I. Eley
 Prof. M. E. Carleton +577 73.93 68.16
 O. E. Carleton

+50
 5
 +50
 4
 +52
 3
 +52
 2
 +52
 1
 +52
 +50
 +50

Gibbs Rod
Lambert Chain

Aug 25 04

± H.I. Elev.

Vermont Ave.

12

N Rod Elev C Rod Elev S Rod Elev

+79.5 E. line Chuy St.

73.93 ✓

27 71.2

44 69.5

6

1.5 72.4 25 71.4 4.0 69.9

Peg. Plug S.E. Cor. " "

-4.42
+12.14

81.66 69.52 ✓

+50

8.7 73.0 9.5 72.2 9.2 72.5

+59.5 N. line " "

8.4 73.3 9.5 8.6 73.1

7

7.2 74.5 7.0 74.7 6.5 75.2

+50

4.7 77.0 5.0 76.7 6.1 75.6

8

3.2 78.5 4.3 77.4 5.7 76.0

+50

1.7 80.0 2.3 79.4 3.4 78.3

9

0.1 81.7 0.9 80.8 2.2 79.5

Peg.

-2.30
+6.64

86.00 79.36 ✓

+50

2.5 83.5 4.4 81.6 8.0 78.0

10

1.5 84.5 3.8 82.2 9.3 76.7

+50

1.6 84.4 3.4 82.6 10.4 75.6

11

2.2 83.8 5.1 80.9 9.4 76.6

+50

6.4 79.6 9.6 76.4 11.9 74.1

+59 E. line Woyed St

7.8 78.2 12.1 73.9

Peg at N.E. Cor. " "

-7.76

78.24

G. R. R. Rod
G. Lambert Chain

Aug 25 '24
± H.I. Elev

12		86.00	
+39	W. line Noyes St.		
+50			
13			
+50			
Peg		-5.99 +10.41	90.42 80.01
14			
+50			
15			
+50			
16			
+50			
17			
+38	E. line Morrell St.		
+50			
+8			
+18	W. " " "		
BYM. Spk fence Post.		-4.99	85.43
S-W Cor. " "			

Vermont Ave.

N		C		S 13	
Rod Elev.		Rod Elev.		Rod Elev.	
8.2	77.8	9.3	76.7	10.5	75.5
7.6	78.4			10.2	75.8
7.6	78.4	8.9	77.1	9.8	76.2
7.2	78.8	8.0	78.0	9.1	76.9
6.3	79.7	7.7	78.3	8.8	77.2
10.4	80.0	11.7	78.7	12.7	77.7
9.8	80.6	10.7	79.7	11.6	78.8
8.4	82.0	9.1	81.3	9.6	80.8
6.5	83.9	6.4	84.0	7.9	82.5
3.6	86.8	5.1	85.3	7.0	83.4
6.7	83.7	7.8	82.6	9.8	80.6
4.8	85.6	6.8	83.6	7.7	82.7
3.4	87.0	4.8		5.7	84.7
3.1	87.3	4.8	85.6	5.6	84.8
3.2	87.2	4.7	85.7	5.8	84.6
2.9	87.5			5.7	84.7

G. J. R. in Rod
Lambert Chain
Aug 25 04
± H.I. Elev

18+50		90.42	
19			
Peg	- 0.66		
+50	+12.95	102.71	89.76
20			
+50			
21			
+50			
22			
+50			
23			
+17.5	E. line		
	Framont St.		
B.M.	June Post S.E. Cor.	- 2.63	
	Lambert St.	+ 4.18	104.26 100.08
+50			
+97.5	W. line		
	" "		
24			
+50			

Vermont Ave
N Rod Elev
C Rod Elev.
S Rod Elev

27	87.7	38	86.6	4.7	85.7
0.3	90.1	.20	88.4	2.7	87.7
11.7	91.0	13.1	89.6	13.2	89.5
10.3	92.4	11.5	91.2	12.0	90.7
7.5	95.2	9.2	93.5	10.2	92.5
2.9	99.8	4.3	98.4	6.9	95.8
+0.6	103.31	1.6	101.1	4.3	98.4
+0.3	103.01	2.1	100.5	2.4	99.3
1.8	100.9	4.1	98.6	4.8	97.9
2.5	100.2	3.3	99.4	4.0	98.7
2.1	100.6			3.3	99.4
2.6	101.7	2.8	101.5	4.1	100.2
1.2	103.1			2.5	101.8
1.2	103.1	1.7	102.6	2.4	101.9
1.8	102.5	2.2	102.1	2.9	101.4

G. K. R. Rod
Lambert Chain

Aug 25 04

± H.L. Elev.

25 104.26 ✓

+50

26

+50

27

+50

28

+50

29

Peg

-12.53

+4.27

96.00

91.73

+50

30

+50

31

+50

32

Peg

-12.51

+2.52

86.01

83.49

+50

Vermont Ave

15

N Rod Elev. C Rod Elev. S Rod Elev.

28 101.5 34 100.9 27 101.6

34 100.9 41 100.2 39 100.4

52 99.1 56 98.7 50 99.3

70 97.3 71 97.2 65 97.8

81 96.2 84 95.9 84 95.9

86 95.7 94 94.9 100 94.3

84 95.9 95 94.8 109 93.4

87 95.6 102 94.1 114 92.9

88 95.5 110 93.3 125 91.8

03 95.7 34 92.6 56 90.4

16 94.4 51 90.9 69 89.1

44 91.6 69 89.1 88 87.2

68 89.2 89 87.1 105 85.5

84 87.6 101 85.9 121 83.9

106 85.4 126 83.4 140 82.0

27 83.3 40 82.0 55 80.5

W. Remin Rod
 J. Lambert Chain Aug 25 0-1

± H.L. Elev.

86.01 ✓

33

+50

34

+50

+77 E. line Jewel St

Play N.E. Cor.

" " -3.22

82.79

35

+50

+57 W. " " "

36

+50

37

+50

38

Peg

-6.65
 +1.54

80.90 79.36 ✓

+50

39

+50

Vermont Ave.

N. C. S 16
 Rod Elev Rod Elev Rod Elev.

41 81.9 5.1 80.9 6.5 79.5

45 81.5 5.8 80.2 7.2 78.8

40 82.0 5.4 80.6 6.8 79.2

34 82.6 4.8 81.2 6.3 79.7

32 82.8 6.25 79.8

31 82.9 4.5 81.5 6.1 79.9

32 82.8 4.8 81.2 6.2 79.8

32 82.8 5.9 80.1

34 82.6 5.2 80.8 5.7 80.3

40 82.0 5.5 80.5 6.4 79.6

43 81.7 6.0 80.0 6.6 79.4

46 81.4 6.3 79.7 7.0 79.0

49 81.1 6.5 79.5 7.1 78.9

05 80.4 2.1 78.8 2.7 78.2

1.1 79.8 2.5 78.4 3.5 77.4

1.7 79.2 3.3 77.6 4.0 76.9

G. J. Remier Rod
 Lambert Chain

Aug 25-04

± H.T. Elev.

40

80.90

+50

+55 E. line Broadway.

BM, Nails in ^{S.E. Cor. "}Final Post

-4.25

76.65

41

+50

+55 W. line Broadway

42

+50

43

Pay

-6.19
 +3.99

78.70 74.71

+50

44

+50

45

+50

46

+50

Vermont Ave.

N C S 17
 Rod Elev. Rod Elev. Rod Elev.

2.2 78.7

4.0 76.9

4.6 76.3

3.2 77.7

4.4 76.5

5.3 75.6

3.2 77.7

5.4 75.5

4.1 76.8

5.1 75.8

6.3 74.6

4.9 76.0

5.6 75.3

6.2 74.7

5.0 75.9

6.2 74.7

5.9 75.0

6.3 74.6

6.7 74.2

5.9 75.0

6.7 74.2

7.1 73.8

6.3 74.6

6.9 74.0

7.4 73.5

4.3 74.4

4.9 73.8

5.2 73.5

4.5 74.2

5.0 73.7

5.2 73.5

4.7 74.0

5.4 73.3

5.7 73.0

4.8 73.9

5.7 73.0

5.9 72.8

4.9 73.8

5.5 73.2

5.7 73.0

5.0 73.7

5.4 73.3

5.9 72.8

5.0 73.7

5.4 73.3

5.9 72.8

G. J. Rennie Rod.
Lambert Chain

Aug. 25 '04

± H.I. Elev.

+546 E. Lincoln St

7870 ✓

47

+346 W. " " "

+50

Cut. of Vermont Ave +
4734 Peg. W. Lincoln St

-5.41

+2.84

76.13 73.29 ✓

48

+50

49

+50

50

+50

51

+50

52

Peg

-11.53

+1.92

66.52 64.60

+33 E. Lincoln St

+50

53

Vermont Ave

18

N
Rod Elev

C
Rod Elev

S
Rod Elev

50 73.7

59 72.8

50 73.7

55 73.2

57 73.0

53 73.4

61 72.6

54 73.3

51 73.6

59 72.8

29 73.2

30 73.1

29 73.2

35 72.6

30 73.1

25 73.6

33 72.8

32 72.9

30 73.1

37 72.4

41 72.0

41 72.0

53 70.8

54 70.7

54 70.7

67 69.4

71 69.0

74 68.7

83 67.8

88 77.3

90 67.1

99 66.2

10.7 65.4

11.2 64.9

106 65.5

11.2 64.9

12.2 63.9

19 64.6

3.2 63.3

24 64.1

3.1 63.4

3.6 62.9

30 63.5

3.8 62.7

4.6 61.9

G. J. Rennie Rod
 G. Lambert Chain
 Aug. 25 '04
 ± H.I. Elev.

53+13 W. line Gresham St. 66.52 ✓
 Cont. Vermont + W. line
 Peg Gresham St. -3.79 62.73

+50

54

+50

55

+50

56

+50

57

+50

Peg

-8.51
 +4.93 62.94 58.01 ✓

58

+13 E. line Farnell St.

+50

+93 W. " " "

59

Peg Cont. Vermont Ave +
 W. line Farnell St. -4.51

58.43

Vermont Ave 19
 N Rod Elev C Rod Elev S Rod Elev

3.2 63.3 46 61.9

3.7 62.8 46 61.9 5.2 61.3

4.0 62.5 5.1 61.4 5.6 60.9

4.5 62.0 5.5 61.0 6.3 60.2

4.8 61.7 5.6 60.9 6.4 60.1

5.1 61.4 5.7 60.8 6.5 60.0

5.1 61.4 5.7 60.8 6.6 59.9

6.1 60.4 6.6 59.9 7.0 59.5

6.2 60.3 7.0 59.5 7.7 58.8

6.6 59.9 7.4 59.1 8.2 58.3

3.2 59.7 4.1 58.8 4.9 58.0

3.3 59.6 5.0 57.9

3.0 59.9 4.0 58.9 5.1 57.8

3.6 59.3 5.3 57.6

3.7 59.2 4.7 58.2 5.5 57.4

Goffman Rod.
Lambert Chain

Aug. 25 04

± H.I. Elev

59+50		62.941	
60			
+50			
61			
+50			
62			
+50			
63			
+50			
Peg.	-9.93		
	+2.71	55.72	53.01
+93	E. line Everts St.		
64			
Peg.	Cent. Vermont + E. line Everts St.	-1.62	54.10
+50			
+73	W.		
65			
+50			

Vermont Ave.

N.

E.

20

	Rod Elev.		Rod Elev.		Rod Elev.
4.0	58.9	5.1	57.8	6.0	56.9
4.3	58.6	5.2	57.7	5.8	57.1
4.8	58.1	5.5	57.4	6.4	56.5
5.1	57.8	6.1	56.8	6.9	56.0
5.6	57.3	6.6	56.3	7.5	55.4
6.3	56.6	7.1	55.8	7.9	55.0
6.9	56.0	7.3	55.6	8.6	54.3
7.5	55.4	8.4	54.5	9.2	53.7
8.0	54.9	8.8	54.1	10.0	52.9
0.7	55.02			2.9	52.8
0.7	55.0	1.8	53.9	2.8	52.9
1.1	54.6	2.0	53.7	3.1	52.6
1.3	54.42			3.4	52.3
1.7	54.0	2.8	52.9	3.9	51.8
2.0	53.7	3.2	52.5	4.2	51.5

G. G. Remmie Road
 S. Lambert Chemin

Aug. 25. 14

± H. I. Elev.

Vermont Ave.

21

66 5572 ✓

+50

67

+50

68

+50

69

+50

+73 E. line Darrow St.

70

Peg. Plat. N. W. Cor. " " -9.77
 +1.36

47.31 45.95 ✓

+53 W. line " "

71

+50

72

+50

73

+50

N Rod Elev. E Rod Elev. S Rod Elev.

24 53.3 34 52.8 45 51.2

30 52.7 38 51.9 48 50.9

37 52.0 47 51.0 53 50.4

50 50.7 57 50.0 65 49.2

60 49.7 68 48.9 75 48.2

67 49.0 72 48.5 86 47.1

74 48.3 79 47.8 92 46.5

81 47.6 84 47.3 94 46.3

85 47.2 88 46.9

90 46.7 94 46.3 99 45.8

14 45.9 21 45.2 S.W. Cor. on Equival
 0.3 ^{measured} 44.0

20 45.3 26 44.7 29 44.4

32 44.1 34 43.9 39 43.4

38 43.5 42 43.1 45 42.8

44 42.9 48 42.5 53 42.0

47 42.6 56 41.7 58 41.5

59 41.4 64 40.9 66 40.7

G. P. Rummel Rock
Lambert Chain

Aug. 25 02

± Ht. Elev.

74			47.31	
+50				
75				
+52.3 E. line Cas St				
76				
+32.3 W. " " "				
Plng S.W. Cor. " "	-10.51		36.80	
+50				0+20
77				0+70
Pay at Sta. 87	x	-11.14 +1.55	37.72	36.17
+50				1+20
78				1+70
+50				2+20
79				2+70
+50				3+20
80				3+70
+50				4+20

Vermont Ave.

N. C S 22
Rod Elev Rod Elev Rod Elev

67	40.6	70	40.3	71	40.2
73	40.0	78	39.5	81	39.2
77	39.6	84	38.9	88	38.5
85	38.81	91	38.2	95	37.81
86	38.7	93	38.0	100	37.3
96	37.71			105	35.81
99	37.4	105	36.8	108	36.5
106	36.7	111	36.2	116	35.7
Quit Aug. 25 64					
Begin " 27 " "					
15	36.2	24	35.3	27	35.0
20	35.7	27	35.0	37	34.0
29	34.8	35	34.2	43	33.4
25	35.2	34	34.3	49	32.8
40	33.7	47	33.0	55	32.2
46	33.1	56	32.1	60	31.7
53	32.4	61	31.6	68	30.9

G. R. R. Rod
 Lambert Chain

Aug 27 04

± H. I. Elev

81 37.72 47.70

+31.8 E. line Bayard St. 5+00

+50 64 31.3 72 30.5 77 30.0

82 64 31.3 74 30.3 84 29.3

+11.8 W " " " 66 31.1 86 29.1

83 Peg
 S. W. Cor. Phyg " " - 8.62
 +2.60 31.70 29.10

+50 0+40 0.9 30.8 1.9 29.8 2.0 29.7

83 0+90 1.2 30.5 1.8 29.9 2.8 28.9

+50 1+40 2.1 29.6 2.9 28.8 3.7 28.0

84 1+90 2.6 29.1 3.6 28.1 4.3 27.4

+50 2+40 2.7 29.0 3.6 28.1 4.2 27.5

85 2+90 3.2 28.5 4.1 27.6 5.0 26.7

+50 3+40 3.8 27.9 4.6 27.1 5.4 26.3

86 3+90 4.5 27.2 5.3 26.4 5.9 25.8

+50 4+40 4.9 26.8 5.8 25.9 6.6 25.1

87 4+90 5.2 26.5 6.4 25.5 6.8 24.9

+11 E. line Allison St. 5+00 5.7 26.0 7.0 24.7

Phyg S.E. Cor. " " - 6.97
 +4.94 29.67 24.73

Vermont Ave 23
 N C S
 Rod Elev. Rod Elev. Rod Elev.

60 31.7 68 30.9 73 30.4

62 31.5 79 29.8

64 31.3 72 30.5 77 30.0

64 31.3 74 30.3 84 29.3

66 31.1 86 29.1

0.9 30.8 1.9 29.8 2.0 29.7

1.2 30.5 1.8 29.9 2.8 28.9

2.1 29.6 2.9 28.8 3.7 28.0

2.6 29.1 3.6 28.1 4.3 27.4

2.7 29.0 3.6 28.1 4.2 27.5

3.2 28.5 4.1 27.6 5.0 26.7

3.8 27.9 4.6 27.1 5.4 26.3

4.5 27.2 5.3 26.4 5.9 25.8

4.9 26.8 5.8 25.9 6.6 25.1

5.2 26.5 6.4 25.5 6.8 24.9

5.7 26.0 7.0 24.7

G. J. Rennie Rod
 Lambert Chim

Aug 27 27

Vermont Ave. 24

	±	H.I.	Elev.	N Rod Elev	C Rod Elev	S Rod Elev			
87+50	Top of Pile.	29.67		21	29.6	29	26.8	35	26.2
87+50.7	Cut Motor line								
87+91	W. line Allison ft.		0-0	35	26.2			54	24.3
88			0410	38	25.9	49	24.8	56	24.1
+50			0460	42	25.5	54	24.3	62	23.5
89			1710	37	26.0	43	25.4	51	24.6
+50			1760	34	26.3	40	25.7	49	24.8
90			2110	35	26.2	45	25.2	55	24.2
+50			2160	39	25.8	49	24.8	58	23.9
91			3710	32	26.5	42	25.5	48	24.9
+50			*3760	26	27.1	33	26.4	42	25.5
92				24	27.3	32	26.5	38	25.9
+43	Edge of Bank			36	26.1	31	26.6	21	27.6

Levels on Thomas Ave.
Beginning on the East line
of Pendleton St. & running
West to the ocean.

B. Jennie Rock Aug 26 07
Glauber's Chain

± Ht. Elev

Plaq. S.W. Cor. Pendleton St. +12.63 18.39 5.76

0 E. line Pendleton St.

+50

+80

1

+50

2

+50

3

+50

4

+50

5

+50

Thomas Ave

N Rod Elev C Rod Elev S²⁵ Rod Elev.

10.9	7.5	11.9	6.5	13.0	5.47
10.2	8.2	11.5	6.9	13.0	5.47
9.4	9.0			12.6	5.87
9.2	9.2	10.5	7.9	11.9	6.57
8.2	10.2	9.4	9.0	10.4	8.03
6.9	11.5	8.1	10.3	9.2	9.2
5.9	12.5	7.0	11.4	7.9	10.5
4.3	14.1	5.7	12.7	6.5	11.97
3.5	14.9	4.4	14.0	5.3	13.11
2.6	15.8	3.7	14.7	5.0	13.4
2.5	15.9	3.9	14.5	5.4	13.0
2.0	16.4	3.8	14.6	5.2	13.2
1.9	16.5	3.1	15.3	4.1	14.3

G. J. Rennie Road
 Lambert + Cham

Aug. 26 04

	±	H.I.	Elev.
5+80 E. line Olney St.		18.39	17.1
Peg. N.E. Cor. Olney St.	-0.58 +12.24	30.05	17.81
6			
+50			
+60 W. line " "			
7			
+50			
8			
+50			
9			
+50			
Peg	-0.61 +6.04	35.48	29.44
10			
+50			
11			
+50			
+59 E. line Noyes St.			
12			

Thomas Ave

S 26

	N	C	S 26
	Rod Elev.	Rod Elev.	Rod Elev.
	0.6	17.8	2.7
	10.7	19.3	12.2
	7.0	23.0	8.5
	6.3	23.7	17.8
	4.6	25.4	13.0
	3.2	26.8	17.0
	3.0	27.0	11.5
	3.5	26.5	10.0
	2.9	27.1	9.7
	0.6	29.4	8.1
	3.8	31.7	23.8
	1.6	33.9	6.2
	1.0	34.5	23.8
	2.0	33.5	8.1
	2.4	33.1	7.0
	4.8	30.7	24.9
			4.3
			28.2
			+0.3
			30.35
			36
			33.2
			34
			2.8
			32.8
			3.6
			31.9
			4.2
			31.3
			6.7
			28.8

G. Kinnin Rod
G. Lambert Chain

Aug 26. 04

	±	H.I.	Elev
12+39 W. line Noyes St.		35.48	
+50			
N.W. Cor. Ply " "	-7.11		28.37
13			←
+50			←
Key	-11.96 +10.27	33.79	23.52
14			
+50			
15			
+50			
16			
+50			
17			
+38 E. line Morell St.			
Ply N.E. Cor. Morell St.	-3.14 +12.10	42.75	30.65
+50			
18			
T 18 W. line Morell St.			

Thomas Ave.

27

N	C	S
Rod Elev	Rod Elev	Rod Elev
7.1	28.4	9.6
7.9	27.6	10.8
		13.6
10.4	25.1	12.0
12.0	23.5	13.2
		22.3
		14.3
10.3	23.5	11.4
8.6	25.2	9.9
5.7	28.1	9.0
5.9	27.9	10.1
6.6	27.2	9.9
7.5	26.3	8.5
6.1	27.7	4.1
3.1	30.7	
		+0.4
		34.19
10.6	32.1	9.0
7.7	33.5	6.9
6.5	36.2	
		35.7
		8.1
		34.6
		35.8
		6.7
		36.0
		1.7
		36.0

J. J. Rennie Rod
Lambert Chain

Aug. 26 04
H.L. Elev

18+50		42.75	
+19			
+50			
20			
+50			
21			
+50			
22			
+50			
23			

+18.5 E. line Lambert ft.

Reg. ^{Plus} N.E. Cor. " " -1.71
+13.03 54.07 41.04

+50			
+98.5	W. line	" "	
24+50			
25			
+50			

Thomas Ave 28
N C S
Rod Elev Rod Elev Rod Elev

53	37.4	6.0	36.7	6.6	36.1
45	38.2	5.5	37.2	5.9	36.8
39	38.8	4.8	37.9	5.4	37.3
45	38.2	5.0	37.7	5.5	37.2
64	36.3	6.8	35.9	7.0	35.7
93	33.4	9.9	32.8	10.5	32.2
91	33.6	10.6	32.1	11.7	31.0
75	35.2	8.6	34.1	10.1	32.6
62	36.5	7.2	35.5	7.6	35.1
22	40.5	3.0	39.7	3.1	39.6
17	41.0			2.5	40.2
117	42.4	12.0	42.1	12.5	41.6
98	44.3	10.7	43.4	11.1	43.0
83	45.8	8.5	45.6	8.8	45.3
62	47.9	6.6	47.5	7.2	46.9
48	49.3	5.8	48.3	6.1	48.0

69 Rinnie Rock
 Lambert Chan

Aug 26 '04

	±	H.I.	Elev
26			54.07
+50			
27			
+50			
28			
+50			
Peg	-0.00		
	+7.22	60.79	53.57
+99. E. line Kendall St.			
29+50			
+79 W " " "			
30			
+50			
31			
+50			
32			
+50			
33			
+50			

Thomas Ave.

N C S 29

	Rod	Chw	Rod	Chw	Rod	Chw
42	49.9	4.9	49.2	5.4	48.7	
34	50.7	4.5	49.6	5.0	49.1	
37	50.9	3.9	50.2	4.3	49.8	
28	51.3	3.6	50.5	3.8	50.3	
23	51.8	2.9	51.2	3.3	50.8	
15	52.6	1.9	52.2	2.1	52.0	
7.0	53.8	7.5	53.3	7.6	53.2	
5.5	55.3	5.8	55.0	6.2	54.6	
5.0	55.8			5.5	55.3	
4.1	56.7	4.5	56.3	5.1	55.7	
2.9	57.9	3.5	57.3	3.5	57.3	
2.5	58.3	2.8	58.0	3.4	57.4	
2.2	58.6	2.6	58.2	2.5	58.3	
2.7	58.1	2.7	58.1	3.5	57.3	
4.0	56.8	3.0	57.8	2.4	58.4	
4.3	56.5	2.9	57.9	1.9	58.9	
7.1	53.7	4.9	55.9	2.8	58.0	

932

Thomas Ave

N

Rock Elm Rock Elm Rock Elm

51	54.5	16	51	54.5	32	52.4
49	50.7	51	50.5	5.6	50.0	49.3
68	48.8	7.5	48.1	8.3	49.3	67.8
84	47.2	94	46.2	9.9	45.7	83.7
10.1	45.5	10.7	44.9	11.5	44.1	101.1
119	40.7	12.8	42.8	13.5	42.1	119.1
1.0	41.7	1.8	40.9	2.6	40.1	1.0
3.1	39.6	3.7	39.0	4.4	38.3	3.1
44	38.3	5.0	37.7	5.2	37.5	44
49	37.8	5.4	37.3	5.9	36.8	49
5.1	37.6			6.1	36.6	5.1
5.2	37.5	5.6	37.1	6.3	36.4	5.2
5.3	37.4	5.7	37.0	6.3	36.4	5.3
5.0	37.7			6.3	36.4	5.0
5.1	37.6	5.5	37.2	6.2	36.5	5.1

55.09

55.60

45.51

Pay Day M.W. Con. House 4+0.51

F

Hill Elev

Aug 24 07

Edwin Rose
Franklin & Chan

47+50

48

+50

49

+50

50

Day

-12.99

+0.12

42.73

42.61

+50

51

+50

52

+36

E. Hill Station H.

Aug M.G. Con " " -506

37.67

+50

53

+16

M. Hill Station H.

+50

G. J. Rennie Rod
Lambert Chain

Aug 29, 04

± H. I. Elev

54		4273		
+50				
55				
+50				
56				
+50				
Peg	-9.72			
	+1.09	3410	33.01	
57				
+50				
58				
+156	E. line Fanned Ht.			
+50				
+95.6	W " " "			
Plug N.W. Cor.	" " "	-4.06	30.04	
57+50				
60				
+50				

Thomas Ave.

N

E

83

	Rod Elev	Rod Elev	Rod Elev		
54	37.3	56	37.1	6.5	36.2
56	37.1	6.1	36.6	6.5	36.2
6.0	36.7	6.4	36.3	7.2	35.5
7.0	35.7	7.3	35.4	8.0	34.7
8.3	34.4	8.2	34.5	9.0	33.7
9.0	33.7	9.2	33.5	9.7	33.0
12	32.9	14	32.7	2.0	34.1
19	32.2	2.2	31.9	2.7	31.4
2.7	31.4	2.7	31.4	3.4	30.7
3.0	31.1			3.5	30.6
3.5	30.6	3.5	30.6	3.9	30.2
4.1	30.0	4.1	30.0	4.3	29.8
4.8	29.3	5.0	29.1	5.5	28.6
5.5	28.6	5.8	28.3	6.1	28.0
6.2	27.9	6.3	27.8	6.8	27.3

90 Rummie Rod
Lambert Chain

Aug. Aug 29, 04

THOMAS Ave.

S 34

		H. I. Elev.	N Rod Elev	C Rod Elev	S Rod Elev
61		3410	6.5 27.6	6.8 27.3	7.2 26.9
+50			6.7 27.4	7.2 26.9	7.8 26.3
62			6.8 27.3	7.2 26.9	8.3 25.8
+50			6.2 27.9	7.5 26.6	8.6 25.5
Key	-8.09 +2.91	28.92	26.01		
63			0.1 28.8	1.3 27.6	2.9 26.0
+50			0.0 28.9	0.6 28.3	1.7 27.2
+95 E. line Everts St.			0.5 28.4	1.0 27.9	2.0 26.9
64+50			1.2 27.7	1.8 27.1	2.5 26.4
+75 W. " " "			1.7 27.2		2.7 26.2
N.W. Cor Ply " "	-1.74		27.18		
65			2.0 26.9	2.7 26.2	3.1 25.8
+50			3.9 25.0	4.4 24.5	4.6 24.3
66			6.4 22.5	6.8 22.1	6.8 22.1
+50			9.0 19.9	9.3 19.6	9.5 19.4
67			10.6 18.3	10.7 18.2	11.0 17.9
+50			11.1 17.8	11.8 17.1	12.4 16.5
Key	-12.81 + 6.28	22.39	16.11		

G. J. Rennie Rod
G. Lambert Chain

Aug. 29 + 30

± H. I. Elev.

68

22.39

+50

69

+50

+75 E. line Dawes St.

70

Phy N.E. Co. " "

-5.47

16.92

+55 W. Line " "

71

+50

72

+50

73

+50

74

peg at Sta. 74

-8.96

+3.61

16.44

13.43

+50

Thomas Ave.

N

@

S 35

Rod Elev

Rod Elev.

Rod Elev

50 17.4

52 16.8

6.3 16.1

53 17.1

6.0 16.4

6.6 15.8

6.0 16.4

6.5 15.9

6.8 15.6

5.9 16.5

7.1 15.3

7.3 15.1

5.5 16.89

7.5 14.89

5.4 17.0

6.5 15.9

7.8 14.6

5.4 16.99

6.2 16.2

7.0 15.39

5.6 16.79

6.3 16.1

6.9 15.5

5.6 16.8

6.2 16.2

6.9 15.6

6.3 16.1

6.6 15.8

7.2 15.2

6.9 15.5

7.0 15.4

7.7 14.7

7.4 15.0

7.8 14.6

8.1 14.3

8.0 14.4

8.3 14.1

8.8 13.6

8.5 13.9

9.0 13.4

9.2 13.2

Quit Aug 29 or

3.0 13.4

3.4 13.0

3.3 13.1

~~4.3~~

Gyrene Rod
Gambert Chain

Aug. 30 '04

I H.I. Elev.

75		16.44	
+50			
+54.5	E. line Cass St.		
76			
+34.6	W " " "		
+50		0+15	
77		0+65	
+50		1+15	
78		1+65	
+50		2+15	
79		2+65	
+50		3+15	
80		3+65	
Pay.		-7.90 +0.68	9.22
+50			8.54
81		4+15	
		4+65	
+34	E. line Bayard St.	5+00	
Pliny S.E. Cor. " "			-3.7

N Thomas Ave. S 36

Rod Elev. Rod Elev. Rod Elev.

33	13.1	38	12.6	43	12.1
33	13.1	41	12.3	46	11.8
33	13.1			46	11.8
42	12.2	44	12.0	48	11.6
42	12.2			49	11.5
42	12.2	48	11.6	52	11.2
47	11.7	50	11.4	54	11.0
52	11.2	52	11.2	57	10.7
58	10.6	60	10.4	63	10.1
63	10.1	64	10.0	66	9.8
67	9.7	71	9.3	71	9.3
74	9.0	75	8.9	78	8.6
79	8.5	81	8.3	85	7.9
12	8.0	16	7.6	17	7.5
20	7.2	22	7.0	25	6.7
25	6.7			32	6.0

Griffin Road
Hambert Chain

Aug 30 04

	±	H.I.	Elev.
81+50		922	+15
82			+65
+14 West in Bayard St.			+80 0+00
+50			0+35
83			0+85
+50			1+35
84			1+85
+50			2+35
85			2+85
+50			3+35
86			3+85
+50			4+35
Reg. Plat S.E. Cor Allison St.	-7.08 +6.35	8.49	2.14
87			4+85
+13.8 S. line	" "		5+00
+50			
+93.8 W. line	" "		
88			0+05

Thomas Ave

S 37

N	C	S 37
Rod Elev	Rod Elev	Rod Elev.
2.7	6.5	3.2
3.0	6.2	3.3
3.2	6.0	
3.5	5.7	3.8
3.8	5.4	4.1
4.4	4.8	5.0
5.0	4.2	5.7
6.5	2.7	6.9
8.2	1.0	8.4
7.8	1.4	8.7
8.2	1.0	7.1
6.2	3.0	6.9
✓ 5.7	2.8	5.8
5.7	3.8	
5.9	2.6	6.2
5.6	2.9	5.9
5.7	2.8	

G Rennie Rock
 G Lambert Chain Aug 30 04

	±	H.I.	Elev
88+50		849	0+55
89			1+05
+50			1+55
90			2+05
+50			2+55
91	Drift Sand		3+05
+37	" "	shore line	3+15

Thomas Ave.

N.		C		§38	
Rod Elev		Rod Elev		Rod Elev	
5.7	2.8	5.7	2.6	6.4	2.1
5.6	2.9	6.1	2.4	6.0	2.5
4.8	3.7	5.2	3.3	5.3	3.2
4.7	3.8	4.8	3.7	4.8	3.7
4.1	4.4	4.5	4.0	3.8	4.7
3.2	5.3	2.6	5.9	2.2	6.3
	5.5		6.0		6.2
2.5	6.0	2.3	6.2	2.7	5.8

Levels on Dawes St. Beginning
on the So. line of Alabama Ave
→ running South.

G. J. Rennie Rod
Lambert Chain

Aug 27 01

	±	H. I.	Elev.
S.W. Cor. Alabama	+11.6	52.59	51.43
0 So line Alabama Ave.			
+50			
1			
+50			
2			
+50			
+70 N. line Vermont			
N.W. Cor. "	-6.61		45.98
3			
+50 8 " "			
4			
+50			
5			
Peq	-9.37 +0.90	44.12	43.22

Dawes St.

E C W 39
Rod Elev Rod Elev Rod Elev

0.0	52.6	0.5	51.1	1.2	51.4
1.1	51.5	1.8	50.8	1.9	50.7
2.4	50.2	2.8	49.8	3.3	49.8
4.2	48.4	4.7	47.9	5.2	47.4
5.4	47.2	5.6	47.0	6.4	46.2
4.8	47.8	5.6	47.0	6.3	46.3
5.4	47.2			6.6	46.0
5.8	46.8	6.4	46.2	7.1	45.5
5.7	46.9	7.2	45.4	5.5	47.1
7.7	44.9	8.3	44.3	9.0	43.6
8.7	43.9	9.3	43.3	9.6	43.0
9.9	42.7	10.6	42.0	11.0	41.6

This Elev.
reduced from Peq
on Garnet Ave. lists.

on ground.

on diagonal ground.

20 Runnie Rod
 & Lambert Chem.

	±	H.I.	Elev
5+50		44.12	
6			
+19.8 N. line Mass. Ave.			
Peg N. E. Cor. " "	-3.78		40.27 40.34
+50			
+99.8 So. line " "			
7+50			
8			
+50			
9			
+50			
+0			
Peg	-10.85 +1.21	34.48	33.27
+67.5 N. line Summit Ave.			
10			
Peg on Summit Ave. levels.	+2.18		32.30
+47.5 N. " " "			

Dawes St.

E		C		W. 40	
Rod	Blw	Rod	Blw	Rod	Blw.
24	41.7	31	41.0	36	40.5
34	40.4	38	40.3	46	39.5
38	40.3			49	39.2
46	39.5	50	39.1	57	38.4
52	38.9	53	38.8	65	37.6
54	38.7	65	37.6	75	36.6
67	37.4	72	36.9	83	35.8
76	36.5	82	35.9	91	35.0
85	35.6	93	34.8	98	34.3
95	34.6	101	34.0	108	33.3
109		111		118	
03	34.2			13	33.2
1.2	33.3	15	33.0	21	32.4
2.3	34.2	29	31.6	37	31.3

39 Rummie Rod Aug 27 04
 Lambert Chain
 ± H.I. Elev

11			34.48	
+50				
12				
+50				
13				
+16	N. line Horrold Ave.			
+50				
Peg + Plug	SW. Cor. " "	-9.82	24.61	
		+2.92	27.58	24.66
+96	So. line " "			
14				
+50				
15				
+50				
16				
+50				
+66	N. line Grand Ave.			
17				

Dawes Ave.

	E	C	W	41	
	Rod Elev.	Rod Elev.	Rod Elev.		
33	31.2	38	30.7	45	30.0
42	30.3	49	29.6	55	29.0
53	29.2	58	28.7	63	28.2
64	28.1	69	27.6	73	27.2
71	27.4	79	26.6	84	26.1
75	27.0			86	25.9
80	26.5	87	25.8	88	25.7
19	25.7			29	24.7
20	25.6	25	25.1	30	24.6
26	25.0	32	24.4	36	24.0
32	24.4	36	24.0	42	23.4
33	24.3	38	23.8	46	23.0
38	23.8	44	23.2	51	22.5
45	23.1	52	22.4	55	22.1
48	22.8			57	21.9
54	22.2	61	21.5	64	21.2

G. J. Rummie Rod
Lambert Chain

Aug 27 01

17+50

27.58

Phy St. Cor Grand Ave -742

20.03

20.16

+ 91 So. line " "

18

+50

19

Reg

-7.37
+0.75

20.96

20.21

+50

20

+50

+61 N. line Thomas Ave

N. E. Cor. Phy. " " -4.01

16.95

21

+41 So. line " "

+50

22

+50

Dawes St.

E C

W42

Rod Elev Rod Elev Rod Elev

54 22.2 58 21.8 65 21.1

64 21.2 74 20.2

66 21.0 72 20.4 77 19.9

69 20.7 76 20.0 81 19.5

73 20.3 78 19.8 85 19.1

14 19.6 19 19.1 22 18.8

26 18.4 27 18.3 27 18.3

37 17.3 37 17.3 38 17.2

40 17.0 39 17.0

54 15.6 49 16.1 47 16.3

61 14.86 55 15.46

62 14.8 65 14.5 56 15.4

69 14.1 75 13.5 76 13.4

75 13.5 80 13.0 84 12.6

G. J. Kinnic Rod
G. Lambert Chain

Aug 27, 04

23 2096

+50

24

+105 No. 10 Reed Ave

Pluy N.E. Cor. " " -9.80

11.16

Quit Aug 27 04

Dawes St.

E

C

W 43

Rod Elev	Rod Elev	Rod Elev
84 12.6	86 12.4	92 11.8
90 12.0	95 11.5	97 11.3
99 11.1	103 10.7	105 10.5
98 11.2	104 10.6	106 10.4

Levels on Reed ave. Beginning
at the East line of Pendleton
St. & running west to the ocean.

G. Rummel Rod Aug 29 01
Lambert Chain

± H.L. Elev.
Plug S.W. Cor Pendleton
+ Thomas Ave + 3.62 9.38 5.76

0 E. line Pendleton

+50

+82 W. line Pendleton

Plug S.W. Cor " -9.64 -0.26

1

+50

2

+50

3

+50

4

+50

5

Reg

-0.50
+12.09 20.97 8.88

Reed Ave 44
N Rod Elev Rod Elev Rod Elev
C
S

90 0.4 9.5 + 0.1 9.8 ± 0.4

9.8 + 0.4 9.6 + 0.2 9.5 ± 0.1

9.4 0.0 9.6 ±

9.3 0.1 9.5 + 0.1 9.8 ± 0.4

9.2 0.2 9.7 + 0.3 9.5 ± 0.1

8.3 1.1 9.3 0.1 9.8 ± 0.42

7.1 2.3 8.5 0.9 9.6 ± 0.2

6.0 3.4 7.4 2.0 8.2 ± 0.2

4.8 4.6 6.6 2.8 9.0 0.4

4.5 4.9 5.7 3.7 7.5 1.9

4.2 5.2 5.0 4.4 6.2 3.2

2.5 6.9 2.5 6.9 4.5 4.9

G. Munnie Rod Aug 29 '04
 G. Lambert Chain

	±	H.I.	Elev.
5+50		20.97	
+80 E. line Olney St.			
-60			
+50			
+60 W. " " "			
Plug S. W. Cor. " "	-3.97		17.00
7			
Pay	-2.62 +6.81	25.16	18.35
+50			
8			
+50			
9			
+50			
10			
+50			
11			
+50			

Reed Ave

	N Rod Elev.	C Rod Elev.	S45 Rod Elev.
	97 11.3	110 10.0	108 10.2
	73 13.7		72 13.8
	52 15.4	60 15.0	63 14.7
	27 18.3	32 17.8	44 16.6
	24 18.6		40 17.0
	09 20.1	17 19.3	33 17.7
	40 21.2	50 20.2	68 18.4
	36 21.6	47 20.5	60 19.2
	25 22.7	46 20.6	64 18.8
	28 22.4	43 20.9	55 19.7
	20 23.2	30 22.2	50 20.2
	11 24.1	28 22.4	51 20.1
	24 22.8	37 21.5	58 19.4
	55 20.1	69 18.3	88 16.4
	65 18.7	96 15.6	126 12.6

G. J. Rummie Rod		Aug 29 '01	
Lumber Chain	±	H.I.	Elev.
11 + 59.76			
		25.16	
Peg	-8.38		
	+2.87	19.65	16.78
12			
+ 39.7			
W. " " "			
+ 50			
Plug N.W. Cor. " " "	-5.16		14.49
13			
+ 50			
14			
+ 50			
15			
+ 50			
Peg.	-0.03		
	+12.48	32.10	19.62
16			
+ 50			
17			
+ 39.5			
E. line Morell St.			
+ 50			

Reed Ave					
N		C		S 46	
Rod Elev	Rod Elev.	Rod Elev.	Rod Elev.	Rod Elev.	Rod Elev.
6.9	18.26			12.8	12.36
2.9	16.8	5.8	13.9	8.9	10.8
5.2	14.45			9.9	9.75
5.8	13.9	7.1	12.6	10.2	9.5
8.9	10.8	10.7	9.0	11.0	8.7
7.5	12.2	8.6	11.1	9.6	10.1
6.8	12.9	7.7	12.0	8.8	10.9
6.0	13.7	7.3	12.4	8.0	11.7
5.2	14.5	6.6	13.1	6.3	13.4
2.4	17.3	3.9	15.8	3.5	16.2
10.9	21.2	11.8	20.3	11.9	20.2
6.6	25.5	7.2	24.9	8.0	24.1
3.3	28.8	4.2	27.7	5.0	27.1
1.5	30.6			3.0	29.1
1.3	30.8	2.2	29.9	2.9	29.2

Gopher Rod
Lambert Chain

Aug 29 04

± H.I. Elev.

Plug N.E. Cor Moreland St -1.54 32.90 30.56

18

+19.5 W. line " "

+50

19

+50

20

+50

21

+50

Peq

-0.21

+12.98

44.87

31.89

22

+50

23

+19.6 E. line Lamont St.

Plug S.E. Cor " " -4.95

39.82

+50

+99.6 W. line " "

Reed Ave.

47

Rod^N Elev Rod^C Elev Rod^S Elev

1.2 30.9 2.0 30.1 2.4 29.7

0.9 31.2 2.8 29.3

1.1 31.0 2.2 29.9 3.5 28.6

1.9 30.2 3.6 28.5 5.5 26.6

2.4 29.7 5.0 26.1 8.1 24.0

4.8 27.3 7.1 25.0 9.0 23.1

6.5 25.6 7.2 24.9 6.4 25.7

5.6 26.5 5.6 26.5 4.4 27.7

2.6 29.5 3.9 28.2 2.2 29.9

13.0 31.9 12.2 32.7 11.0 33.9

8.8 36.1 8.4 36.5 7.8 37.1

6.6 38.3 6.2 38.7 6.1 38.8

5.8 39.1 4.9 40.0

4.2 40.7 4.3 40.6 3.9 41.0

3.2 41.7 3.4 41.5 3.3 41.6

G. J. Rennie Rod
 Lambert Chain

Aug. 29 04
 ± H.I. Elev.

24+50		44.87	
25			
+50			
Peg	-0.57		
	+10.16	54.46	44.30
26			
+50			
27			
+50			
28			
+50			
+99.5	E. line Kendall St		
29+50			
+79.5	W " " "		
Peg at N.W. Cor. "	-1.94		52.52
30			
+50			
31			
+50			

Reed Ave. 48

	N Rod Elev	E Rod Elev	S Rod Elev			
	2.0	42.9	2.1	42.8	2.7	42.2
	1.3	43.6	1.8	43.1	2.3	42.6
	0.9	44.0	1.6	43.3	2.1	42.8
	10.2	44.3	10.9	43.6	11.4	43.1
	9.7	44.8	10.4	44.1	10.9	43.6
	9.0	45.5	9.5	45.0	9.8	44.7
	7.8	46.7	8.4	46.1	8.9	45.6
	6.7	47.8	7.0	47.5	7.5	47.0
	5.2	49.3	5.6	48.9	6.2	48.3
	4.0	50.5	4.3	50.2	4.5	50.0
	2.7	51.8	3.1	51.4	3.5	51.0
	1.9	52.6			2.9	51.6
	1.5	53.0	2.1	52.4	2.5	52.0
	1.0	53.5	1.4	53.1	1.9	52.6
	0.6	53.9	1.0	53.5	1.4	53.1
	+0.1	54.54	0.3	54.2	0.9	53.6

G. R. R. Rod
 G. Lambert Chain

Aug 29 14
 ± H.I. Elev.

Pay
 -0.18 54.46
 +10.56 64.84 54.28

32
 +50
 33
 +50
 34
 +50

+79.0 E. Kim Jewell St.

35
 +50

+59 W. " " "

36
 +50

37 -12.45 52.39

Pay -12.83
 + 0.85 52.86 52.01

+50
 38
 +50

Reed Ave.

\$ 49

N. Rod Elev Rod Elev Rod Elev
 C Rod Elev S Rod Elev

9.4	55.4	9.8	55.0	10.2	54.6
7.9	56.9	8.1	56.7	9.0	55.8
6.7	58.1	7.2	57.6	7.4	57.4
5.5	59.3	5.6	59.2	6.3	58.5
4.6	60.2	5.0	59.8	5.5	59.3
4.2	60.6	4.8	60.0	5.4	59.4
4.5	60.3			5.5	59.3
4.5	60.3	5.1	59.7	5.7	59.1
5.5	59.3	5.5	59.3	6.6	58.2
5.7	59.1			6.3	58.5
6.8	58.0	6.8	58.0	7.0	57.8
8.8	52.0	8.8	56.0	8.6	58.2
12.5	52.3	10.3	54.5	10.2	54.6
5.6	47.3	1.6	51.3	0.8	52.1
9.5	43.4	6.2	46.7	3.5	49.4
11.4	41.5	9.1	43.8	6.9	46.0

Opposite Rock
Lambert Chain

Aug 29 04

	±	H.I.	Elev.
39		52.86	
peg	-9.91 +9.07	52.02	42.95
+50			
40			
+50			
+58 E. line Broadway			
41			
+50			
+58 W. " "			
Plug S.W. Cor. "	-6.28		45.74
42			
+50			
43			
+50			
44			
peg	-5.13 +6.09	52.98	46.89
+50			
45			

Reed Ave. 50

Rock	N Elev	Rock	C Elev	Rock	S Elev
	12.5 40.4		11.3 41.6		9.4 43.5
	11.7 40.3		11.2 40.8		10.3 41.7
	11.2 40.8		11.1 40.9		10.2 41.8
	9.8 42.2		9.8 42.2		9.7 42.3
	9.8 42.2				9.4 42.6
	8.1 43.9		8.4 43.6		8.4 43.6
	6.2 45.8		6.4 45.6		6.7 45.3
	5.9 46.1				6.3 45.7
	4.2 47.8		4.6 47.4		5.3 46.7
	3.2 48.8		3.7 48.3		4.0 48.0
	2.8 49.2		3.3 48.7		3.6 48.4
	3.2 48.2		3.6 48.4		3.9 48.1
	3.8 48.2		4.1 47.9		4.3 47.7
	5.3 47.7		5.9 47.1		6.1 46.9
	5.5 47.5		6.2 46.8		6.6 46.4

G. Rennie Roll
Lambert Chan

Aug 29 1911

± H.I. Elev.

45+50

52.98

46

+50

+58 E. Lin Hain St.

47

+58 W. " " "

Pluy S.W. Cor. " "

-5.47

47.50

47.51

+50

48

-10.80
+ 1.25

43.43

42.18

Pey

+50

49

+50

50

+50

Pey

-9.02
+ 2.61

37.02

34.41

51

+50

Reed Ave

S 51

N
Rod Elev.

C
Rod Elev.

Rod Elev.

5.5 47.5

6.5 46.5

6.8 46.2

5.0 48.0

5.7 47.3

6.5 46.5

4.4 48.6

5.1 47.9

5.9 47.1

4.2 48.8

4.4

5.8 47.2

3.7 49.3

4.5 48.5

5.4 47.6

4.0 49.0

5.5 47.5

5

4.4 48.6

4.9

~~5.5~~
48.1

5.8 47.2

6.6 46.4

6.7

~~6.7~~
46.3

7.6 45.4

Byan Aug 30

0.4

0.6 42.8

1.0 42.4

1.1 42.3

3.2 40.2

4.4 39.0

4.7 38.7

5.9 37.5

6.5 36.9

7.6 35.8

7.5 35.9

8.6 34.8

9.9 33.5

9.1 34.3

10.0 33.4

11.5 31.9

2.9 34.1

4.8 32.2

5.9 31.1

4.5 32.5

5.0 32.0

6.1 30.9

G. Rennie Rod Aug 30 04
 Lumber & Chain ± H.I. Elev.

52		37.02	
+36.8	E. line Gresham St.		
+50			
53			
+16.8	W. " " "		
Peg S.W. Cor	" " -4.96	32.06	
+50			
54			
+50			
55			
+50			
56			
+50			
57			
+50			
58			
+16.	E. line Farnell St		
Peg S.E. Cor	" " -10.65 +1.44	27.81	26.37

Reed Ave. 52
 N C S
 Rod Elev Rod Elev Rod Elev

4.4	32.6	5.1	31.9	6.1	30.9
4.3	32.7	4.9	32.1	5.9	31.1
4.2	32.8	4.9	32.1	5.5	31.5
3.8	33.2	4.6	32.4	5.4	31.6
3.9	33.1			5.0	32.0
3.9	33.1	4.4	32.6	4.7	32.3
4.1	32.9	4.6	32.4	4.9	32.1
4.6	32.4	4.9	32.1	5.6	31.4
4.9	32.1	5.4	31.6	6.2	30.8
5.5	31.5	6.0	31.0	6.8	30.2
6.3	30.7	6.6	30.4	7.6	29.4
7.2	29.8	7.5	29.5	8.0	29.0
8.2	28.8	8.3	28.7	8.9	28.1
9.2	27.8	9.3	27.7	9.7	27.3
9.7	27.3	10.0	27.0	10.5	26.5
9.8	27.2			10.7	26.3

Opp Kenner Rod
Lambert Chain

Aug 30 021

± H.I. Elev

58+50

27.81

+96 W line Tunnel St.

59

+50

60

+50

61

+50

62

+50

63

+50

Pay & Plug N.E. Cor. Everts St. ^{-7.88} +0.49 20.42 19.93

+96.0 E. line

64

+50

+76.0 W "

65

Reed Ave. 53

Red^N Elev Rod[@] Elev Rod^S Elev

07 27.1 1.1 26.7 1.8 26.0

1.3 26.5 1.7 26.1 2.4 25.4

1.4 26.4 1.7 26.1 2.4 25.4

2.1 25.7 2.5 25.3 3.0 24.8

2.8 25.0 3.3 24.5 3.6 24.2

3.5 24.3 4.0 23.8 4.4 23.4

4.0 23.8 4.5 23.3 4.7 23.1

4.9 22.9 5.2 22.6 5.5 22.3

5.8 22.0 6.1 21.7 6.3 21.5

6.8 21.0 7.0 20.8 7.2 20.6

7.3 20.5 7.7 20.1 8.4 19.4

9.0 18.8 8.5 19.3 7.8 20.0

0.5 19.9 2.3 18.1

0.6 19.8 1.5 18.9 2.3 18.1

1.1 19.3 2.0 18.4 2.6 19.8

1.0 19.4 2.8 17.6

1.2 19.2 2.0 18.4 3.1 17.3

W. Kinnin Rod
Lambert Chain

Aug 30 1894
± H.I. Elev

65+50		20.42	
66			
+50	11.10		
67			
+50			
68			
+50			
69			
+50			
+76	E. line Barrett		
Pay P. Hwy N.E. Cor.	11 11	-9.40 +3.69	14.71 11.02
70			
+50			
+50	W. line		
71			
+50			
72			
+50			

Reed Ave 54

N		C		S	
Rod	Elev	Rod	Elev	Rod	Elev
1.3	19.1	2.2	19.2	3.3	17.1
2.0	18.4	3.0	17.4	3.9	16.5
2.9	17.5	4.1	16.3	4.8	15.6
6.0	14.4	6.5	13.9	7.3	13.1
7.2	13.2	7.8	12.6	8.5	11.9
8.3	12.1	8.9	11.5	10.6	9.8
8.3	12.1	9.3	11.1	10.0	10.4
8.7	11.7	9.3	11.1	10.1	10.3
9.2	11.2	9.7	10.7	10.4	10.0
9.4	11.0			10.6	9.8
4.1	10.6	4.6	10.1	5.1	9.6
4.5	10.2	5.2	9.5	5.8	8.9
4.5	10.2			5.8	8.9
5.1	9.6	5.8	8.9	6.3	8.4
5.6	9.1	6.3	8.4	6.7	8.0
6.0	8.7	6.7	8.0	7.5	7.2
4.5	10.2	5.8	8.9	6.9	7.8

G. J. Rummel Rod
Lambert Chain

± H.S. Elev.

73 1471

+50

74

+50

75

+50

+56 E. line Cass St.

76

+36 W. " " "

From this point west Reed Ave is
only 48 ft. wide

76+50

Peg. & Plug N.W. Cor. Cass St. - 6.02
+ 2.88 11.57 8.69

77

+50

78

+50

79

Reed Ave.

\$ 55

N Rod Elev. C Rod Elev. S Rod Elev.

37 11.0 4.9 9.8 5.2 9.11

39 10.8 4.3 10.4 5.5 9.2

43 10.4 4.5 10.2 5.4 9.3

45 10.2 5.0 9.7 5.4 9.3

54 9.3 5.7 9.0 5.7 9.0

57 9.0 6.0 8.7 6.4 8.3

57 9.0 6.5 8.2

59 8.8 6.0 8.7 6.7 8.0

60 8.7 6.4 8.3

62 8.5 6.5 8.2 6.6 8.1

31 8.5 3.5 ~~4.1~~ 3.6 8.0

32 8.4 3.6 8.0 3.8 7.8

35 8.1 3.7 7.9 3.8 7.8

38 7.8 4.0 7.6 4.2 7.4

43 7.3 4.5 7.1 4.0 7.0

G. J. Rennie Rod
 Lambert Chain Aug 30 04
 ± H.I. Elev.

79+50		11.57	
80			
+50			
81			
+15.2	E. line Bayard St.		
		-6.60	
		+0.34	
		5.31	4.97
+50			
82			
+15.2	W. line " "		
+50			
83			
+50			
84			
+50			
85			
+50			
86			
+50			

Reed Ave 56

N		C		S	
Rod	Elev.	Rod	Elev.	Rod	Elev.
47	6.9	47	6.9	50	6.6
47	6.9	5.2	6.4	5.2	6.4
55	6.1	5.5	6.1	5.7	5.9
60	5.6	6.2	5.4	6.1	5.5
66	5.0			6.7	4.9
0.5	4.8	0.6	4.7	0.7	4.6
0.9	4.4	1.0	4.3	1.0	4.3
1.0	4.3	1.0	4.3	1.0	4.3
1.2	4.1	1.7	3.6	1.9	3.4
2.6	2.7	2.7	2.6	2.2	3.1
3.3	2.0	3.5	1.8	3.4	1.9
4.7	0.6	5.0	0.3	4.7	0.6
6.2	+0.9	6.3	+1.0	6.8	+1.5
8.2	+2.9	8.6	+3.3	8.3	+3.0
7.0	+1.7	7.9	+2.6	8.3	+3.0
6.0	+0.7	6.7	+1.4	7.0	+1.7
5.5	+0.2	5.7	+0.4	5.8	+0.5

G. J. Kinnin Rod
 Lambert Chain Aug 30 04
 ± H. L. Flex

87			5.31	
+15	S. line Allison St.			
Peg Pky N.E. Cor	" "	-4.94	9.72	0.37
		+9.35		
+50				
+95	W. line	" "		
88				
+50				
89				
+50				
90				
+50				
91	On drift sand			
+27	" " "	shore line		

Reed Ave 57
 N Rod Elev Rod Elev Rod Elev
 C Rod Elev Rod Elev

5.1	0.0	5.0	0.3	5.4	+0.1
5.0	0.3			5.3	0.0
9.4	0.3	9.1	0.6	9.6	0.1
9.3	0.4			9.7	0.0
9.3	0.4	9.5	0.2	9.8	+0.1
8.8	0.9	8.8	0.9	9.3	0.4
7.9	1.8	8.2	1.5	8.3	1.4
6.9	2.8	7.0	2.7	6.8	2.9
5.9	3.8	5.7	4.0	5.8	3.9
4.8	4.9	4.9	4.8	4.7	5.0
2.2	7.5	2.2	7.5	1.4	8.0
2.5	7.2	3.0	6.7	2.8	6.9

G. J. Rennie Rod
 Lambert & Cham Aug 30 '04
 ± H.I. Elev

Levels on Everts St. Beginning
 on the south line of Alabama
 Ave running south.

0+00 = So line Alabama Ave.

+50

61.53

1

This Elev. reduced from
 N.W. Cor. Everts & Mass. Ave.
 at Emerald

+50

2

+50

+695 N. line Vermont Ave.

3

+495 S. " " "

4

+57

Peg.

-11.88

+1.19

50.84

49.65

5

+50

Everts St

W 58

E Rod Elev C Rod Elev W Rod Elev

0.8 60.7 0.9 60.6 1.3 60.2

1.7 59.8 1.8 59.7 2.0 59.5

2.7 58.8 2.7 58.8 3.0 58.5

3.6 57.9 3.8 57.7 4.1 57.4

5.0 56.5 5.1 56.4 5.2 56.3

6.1 55.4 6.3 55.2 6.7 54.8

6.6 54.93 7.1 54.43

7.4 54.1 7.6 53.9 8.1 53.4

8.7 52.83 8.6 52.9 9.1 52.43

10.1 51.4 10.4 51.1 10.3 51.2

11.2 50.3 11.6 49.9 12.0 49.5

13 49.5 2.0 48.8 2.4 48.4

23 48.5 2.8 48.0 3.4 47.4

G. J. Rennie Rod
 J. Lambert Chain

Aug 30 '04
 ± H.I. Elev

6			50.84	
+19.8	N. line Mass. Ave.			
Plug N. W. Cor.	" "	-4.59	50.84	46.25
+50				
+99.8	So. line	" "		
7+50				
8				
+50				
9				
+50				
+65.8	N. line Garnet Ave.			
10				
+45.8	So. " "			
+50				
Plug S. E. Cor.	" "	-11.42 +0.56	39.98	39.42
11				
+50				

E. EVARTS ST.
 W 59
 Rod Elev Rod Elev Rod Elev

3.0	47.8	3.5	47.0	4.3	46.5
3.4	47.4			4.6	46.2
3.8	47.0	4.4	46.4	5.1	45.7
4.4	46.4	5.4	45.4	6.3	44.5
5.6	45.2	6.4	44.4	7.3	43.5
6.6	44.2	7.5	43.3	8.3	42.5
7.7	43.1	8.4	42.4	9.4	41.4
8.7	42.1	9.2	41.6	10.2	40.6
9.3	41.5	10.0	40.8	10.9	39.9
9.9	40.9			11.2	39.6
10.6	40.2	11.0	39.8	11.9	38.9
11.4	39.4			13.0	37.8
11.6	39.2	12.3	38.5	13.1	37.7
17	38.3	2.5	37.5	3.2	36.8
2.4	37.6	3.3	36.7	4.0	36.0

G. J. Rennie Rod
Lambert Chain

Curv

± H.I. Elev.

12		39.98	
+50			
13			
+16	N. line Hornblend Ave.		
+50			
+96	S. " " "		
14			
Phy S.W. Cor.	"	-7.70	
+50			
15			
+50			
16			
Pey		-10.38	
		+5.09	
		34.69	29.60
+50			
+66	N. line Grand Ave.		
17			
	Cent Motor line Base of rail		

EVERTS

St.

W. 60

E		C		St.	
Rod Elev.	Rod Elev.	Rod Elev.	Rod Elev.		
3.3	36.7	3.9	36.1	4.6	35.4
4.4	35.6	4.8	35.2	5.5	34.5
5.0	35.0	5.6	34.4	6.4	33.6
5.2	34.8			6.7	33.3
5.9	34.1	6.7	33.3	7.5	32.5
6.1	33.9			7.7	32.3
6.2	33.8	7.0	33.0	8.5	31.5
		7.1			
7.0	33.0	7.1	32.9	8.6	31.4
7.0	33.0	7.6	32.4	9.3	30.7
7.6	32.4	8.5	31.5	9.8	30.2
7.9	32.1	9.1	30.9	10.4	29.6
2.4	32.3	3.4	31.3	5.3	29.4
2.7	32.5			5.5	29.2
4.2	30.5	5.2	29.5	6.1	28.6
		6.1	28.6		

gg Runin Rod
& Lambert Chain

Aug 30, 04

± H. I. Elev

17+50

3469

+91 So line Grand Ave.

18

+50

19

+50

20

+50

+61.2 N. line Thomas Ave

Phy N. W. Cor.

" " -7.59

27.10

" N E "

" " -6.33
+1.39

29.75 28.36

21

+41.2 So line

" "

+50

22

+50

23

+50

Evarnts St.

E

C

W. 61

Rod Elev

Rod Elev

Rod Elev.

35 31.2

4.7 30.0

5.5 29.2

33 31.4

5.9 28.8

29 31.8

3.0 31.7

5.2 29.5

35 31.2

4.3 30.4

5.3 29.4

41 30.6

4.9 29.8

5.6 29.1

39 30.8

4.7 30.0

6.3 28.4

51 29.6

5.7 29.0

6.9 27.8

61 28.6

6.5 28.2

7.5 27.2

63 28.4

7.6 27.1

19 27.8

2.5 27.2

3.1 26.6

28 26.9

3.6 26.1

32 26.5

3.2 26.5

3.7 26.0

43 25.4

4.2 25.5

4.9 24.8

59 23.8

5.7 24.0

5.4 24.3

75 22.2

7.1 22.6

6.3 23.4

87 21.0

8.7 21.0

8.5 21.2

	±	H.I.	Elev
G. Kinnic Rod			
G. Lambert Chain			
24		29.75	
+11.1 N. line Reed Ave			
Phy N. E. Cor.	" "	-9.75	20.00

Aug 30 '04

E Everts St W 62

±	H.I.	Elev	±	H.I.	Elev	±	H.I.	Elev
9.5	20.2	99	19.8	100	19.7			
9.8	19.9	102	19.5	10.3	19.4			

20

G. Rennie Roll
 Lambert Chain

Aug 31 '04
 ± H.I. Eley.

Levels on Farnuel St. Beginning
 at the So. line of Alabama Ave &
 running South.

0+00	So line Alabama Ave	.66.42		
+50				
1				
+50				
2				
+50				
+70	N. line Vermont Ave.			
3				
	Hub. W. line Farnuel.	-7.95	58.47	
+50	So. line Vermont.			
4				
+50				
Peg 5		-12.02 + 0.78	55.18	54.40
+50				

Farnuel St.

E Rod Elev C Rod Elev W63 Rod Elev

0.3	66.1	0.6	65.8	0.9	65.5
1.2	65.2	1.4	65.0	2.2	64.2
2.6	63.8	2.6	63.8	3.1	63.3
3.8	62.6	3.5	62.9	4.0	62.4
5.0	61.4	4.9	61.5	5.1	61.3
6.3	60.1	6.3	60.1	6.6	59.8
6.7	59.7			7.0	59.4
7.3	59.1	7.0	59.4	7.7	58.7
8.4	58.0	8.4	58.0	8.7	57.7
9.6	56.8	9.7	56.7	10.0	56.4
10.4	55.8	10.9	55.5	11.0	55.4
0.3	54.9	0.7	54.5	1.0	54.2
1.1	54.1	1.7	53.5	2.0	53.2

43.9	37	44.4	32	44.8	28
44.2	34	44.6	30	45.2	24
44.6	106	45.0	103	46.1	91
44.6	106			46.1	91
45.2	100	45.6	96	46.3	89
45.8	94			46.8	84
46.4	88	46.3	89	47.0	82
46.8	84	46.9	83	47.9	73
47.7	75	47.9	73	48.2	70
48.4	68	48.5	67	48.9	63
49.6	56	50.0	52	49.7	55
50.5	47	50.5	47	50.7	45
51.4	38	51.8	34	52.0	32
52.1	31			52.8	24
52.4	28	52.5	27	53.0	22

W 64

F
Fannell St.
Rutledge
Rutledge
Rutledge

44.61	47.56	47.95	+ 2.95	- 10.57	11	1057
					11	1057
					10	1057
					9	1057
					8	1057
					7	1057
					6	1057
					5	1057
					4	1057
					3	1057
					2	1057
					1	1057

Aug 31
H.I. Ely

Spencer Rd
about there

Left Run in Road
Lambert Chain

Aug 31st or
± H.I. Elev

12

47.56

+50

13

+16.9 N. line Hornblend Ave.

+50

+46.9 So " " "

14

Play St. Cor. " " -6.08

41.48

+50

15

+50

16

Peg.

-10.15
+ 0.35

37.76

37.41

+50

+67 N. line Grand Ave.

17

Cent Motor line base of grant

+50

Faniel St.

65

E Rod Elev E Rod Elev W Rod Elev

32 44.4 33 44.3 41 43.5

36 44.0 43 43.3 46 43.0

40 43.6 48 44.8 51 42.5

45 43.1 51 42.5

49 42.7 53 42.3 54 42.2

55 42.1 60 41.6

58 42.0 59 41.7 61 41.5

66 41.0 66 41.0 67 40.9

77 39.9 74 40.2 75 40.1

90 38.6 84 39.2 82 39.4

102 37.4 101 37.5 99 37.7

18 36.0 21 35.7 15 36.3

15 36.3 20 35.8

11 36.7 20 35.8 25 35.3

10 36.8

28 35.0 24 35.4 18 36.0

69 Remmie Rod
 G Lambert Chain Aug 31 02
 ± H.I. F. 101

17+92 So. line Grand Ave	37.76		
18			
Plat S.W. Cor. " "	-4.64	33.12	
+50			
19			
+50			
20			
+50			
+62 N. line Thomas Ave.			
Plat N.W. Cor. " "	-7.67 +4.39	34.48	30.09
21			
+42 So. line " "			
+50			
22			
+50			
23			
+50			

66

Fannet St.

E		C		W	
Prod	Edw	Prod	Edw	Prod	Edw
39	33.9			4.6	33.2
42	33.6	4.7	33.1	5.4	32.4
5.0	32.8	5.6	32.2	6.2	31.6
5.5	32.3	6.2	31.6	6.6	31.2
6.0	31.8	6.4	31.4	7.2	30.6
6.0	31.8	6.7	31.1	7.3	30.5
6.5	31.3	7.0	30.8	7.4	30.4
6.6	31.2			7.7	30.1
3.2	31.3	4.0	30.5	4.6	29.9
3.8	30.7			4.6	29.9
3.9	30.6	4.4	30.1	4.8	29.7
4.6	29.9	5.0	29.5	5.5	29.0
5.2	29.3	5.6	28.9	6.2	28.3
5.8	28.7	6.2	28.3	6.7	27.8
6.4	28.1	6.9	27.6	7.4	27.1

gg Remire Rod

Lambert Chain

Aug 31 2nd of

± H.I. Elev

24

34.48

+125 N. line Reed Ave

26.37

Play S.C. Cor. " " -7.94

36.54

Fannet St.

F		C		V67	
Rod	Elev	Rod	Elev	Rod	Elev

69 27.6

74 27.1

78 26.7

71 27.4

76 26.9

78 26.7

Gypsum Rock
Lambert Chain

Aug 31st 04

	±	H.I.	Elev
		70.60	
Peg.	-9.31 +1.71	63.00	61.29
+50			
6			
+20 No. line Mass St.			
+50			
7 to " " "			
+50			
8			
+50			
9			
+50			
+67 N. line Garnet Av.			
10			
Peg on Garnet St.	-12.08		50.92
+47 So. line Garnet Av.			
+50			
Peg	-11.97 +2.80	53.93	51.03

Gresham St.

W. 69

	E	C		
	Rod Elev	Rod Elev.	Rod Elev.	
	30			
	30	60.0	32	59.8
	38			59.2
	39	60.1	41	58.9
	47			58.3
	40	59.0		51
				57.9
	46	58.4	51	57.9
				58
				57.2
	50	58.0	61	56.9
				65
				56.5
	55	57.5	66	56.4
				77
				55.3
	47	58.3	73	55.7
				84
				54.6
	62	56.8	79	55.7
				9.2
				53.8
	69	56.1	69	56.1
				9.7
				53.3
	83	54.7	91	53.9
				10.3
				52.7
	83	54.7		10.6
				52.4
	90	54.0	98	53.2
				11.1
				51.9
	98	53.2		11.4
				51.6
	97	53.3	107	52.3
				11.4
				51.6

G. R. R. Rod
 Lambert Chain
 ± H.I. Elev.

Aug 31st 04

11		53.83	
+50			
12			
+50			
13			
+17.7	N. line Hornblow Ave		
+50			
+97.7	do " "		
8. W. Cor.	" "	-7.39	46.44
14			
+50			
15			
+50			
16			
+50			
		-9.43	
Reg. 12 th		+4.61	49.01
+67.4			44.40

Gresham St. W 70

	E	C	W 70
	Rod Elev	Rod Elev	Rod Elev
+0.1	53.93	2.1	51.7
2.1	51.7	2.7	51.1
2.9	50.9	3.4	50.4
2.9	50.9	4.2	49.6
4.7	49.1	4.9	48.9
4.8	49.0		6.2
4.6	49.2	5.9	47.9
5.9	47.9	6.3	47.5
6.0	47.8	6.3	47.5
6.5	47.3	7.2	46.6
7.5	46.3	8.0	45.8
8.2	45.6	8.8	45.0
8.5	45.3	9.4	44.4
9.4	44.4	10.3	43.5
			11.0
			42.8
			6.0
4.6	44.4		43.0

Log Runin Road
 Lambert Chain Aug 31 021
 I H. I. Elev.

17 49.01

Cut Motor Lime Base of road

+50

+424 So. line Grand Ave.

18

+50

19

+50

20

+50

+627 N. line Thomas Ave.

Play N.E. Cor. " " -11.37
 + 2.37 40.01 37.64

21

+427 So. line " "

+50

22

+50

Gresham St. W 71

F Rod Elev Rod Elev Rod Elev
 40 45.0 47 44.3 51 43.9

37 45.3

37 45.3 41 44.9 49 44.1

58 43.2 69 42.1

68 42.2 72 41.8 73 41.7

76 41.4 80 41.0 82 40.8

83 40.7 88 40.2 89 40.1

94 39.6 98 39.2 98 39.2

104 38.6 106 38.4 104 38.6

112 37.8 113 37.7 113 37.7

114 37.6 114 37.6

30 37.0 31 36.9 30 37.0

33 36.7 37 36.3

37 36.3 39 36.1 36 36.4

41 35.9 43 35.7 41 35.9

47 35.3 49 35.1 46 35.4

of Rennie Roll
of Lambert Chain

Aug 31st of
H.I. Elev

23

40.01

+50

24

+13. N. line Red Ave.

Plng S. E. Cor. " "

-7.92 32.09

Gresham St.

W 72

E

C

W

Rod Elev

Rod Elev

Rod Elev

5.4

34.6

5.4

34.6

5.3

34.7

6.1

33.9

6.1

33.9

5.7

34.3

6.9

33.1

6.8

33.2

6.4

33.6

6.9

33.1

7.2

32.8

6.7

33.3

G. Dennis Rod
 G. Lambert Chain Aug 31st 04
 ± H.I. Elev

Levels on Haines St. Beginning
 at the south line of Alabama Ave
 running to the North line of Reed Ave

	±	H.I.	Elev
0	0+00 = So. line Alabama Ave.	77.86	
+50			
1			
+50			
2			
+50			
+69.5	N. line Vermont Ave.		
3			
	Peg. Cent. Vermont line	-4.56	72.30 73.30
+49.5	So line " "		
4			
+50			
5			
	Peg	-6.17 +4.31	76.00 71.60

This Elev.
 reduced from
 N.W. Cor. Haines + Mass. Ave.

Haines St.

	E		e		W73	
	Rod Elev		Rod Elev		Rod Elev	
	14	76.5	16	76.3	16	76.3
	24	75.5	22	75.7	25	75.4
	28	75.1	32	74.7	29	75.0
	32	74.7	35	74.4	36	74.3
	36	74.3	42	73.7	40	73.9
	39	74.0	43	73.6	43	73.6
	42	73.7			45	73.4
	44	73.5	47	73.2	47	73.2
	51	72.8	50	72.9	52	72.7
	56	72.3	54	72.5	55	72.4
	56	72.3	56	72.3	57	72.2
	64	71.5	60	71.9	55	72.4

Gy Kinnin Rod
Lambert Chain

Aug 31st 14
H.I. Elev.

5+50

76.00

+6

+19 N. line Mass. Ave.

Phy N. W. Cor. " "

-4.01

71.99

+50

+99 So. line Mass "

7750

8

+50

9

+50

+675 N. line Garret Ave.

10

+47.5 So " " "

Peg.

11

+50

-7.57
+2.48

70.91

68.43

Haines St.

E C W. 74
Rod Elev Rod Elev Rod Elev

48

71.2

44

71.6

35

72.5

51

70.9

46

71.4

38

72.2

50

71.0

40

72.0

53

70.7

49

71.1

41

71.9

58

70.2

49

71.1

40

72.0

62

69.8

53

70.7

45

71.5

67

69.3

56

70.4

51

70.9

69

69.1

61

69.9

56

70.4

74

68.6

64

69.6

62

69.8

80

68.0

66

69.4

69

69.1

82

67.8

71

68.9

83

67.7

77

68.3

76

68.4

89

67.1

85

67.5

82

67.8

43

66.6

39

67.0

37

67.2

46

66.3

43

66.6

42

66.7

By Runnie Rod Aug 31 04
 G Lambert Chain
 ± H.I. Elev

12 70.91

+50

13

+17.8 N. line Hornblend

+50

Plng S.W. Cor " -7.46
 +1.90 65.35 63.45

+97.8 S. line "

14+50

15

+50

16

+50

+67. No line Grand Ave.

Plng N.W. Cor " " -9.20
 +4.98 61.13 56.15

17

+50

+92 S.

Elev. Base of Road Motor line

Haines St.
 E C W. 75
 Rod Elev Rod Elev Rod Elev.

53 65.6 52 65.7 46 66.3

56 65.3 56 65.3 54 65.5

60 64.9 61 64.8 61 64.8

67 64.2 65 64.4

74 63.5 70 63.9 71 63.8

25 62.9 22 63.2 19 63.5

34 62.0 34 62.0 33 62.1

48 60.6 45 60.9 45 60.9

61 59.3 59 59.5 58 59.6

73 58.1 72 58.2 72 58.2

84 57.0 83 57.1 83 57.1

91 56.3 92 56.2

51 56.0 57 55.4 68 54.3

51 56.0 62 54.9 69 54.2

54 55.7 7.68 53.45

71 54.0

By Runner Rod
G Lambert Chain

Aug 31 04

± H.I. Elev

18		61.13	
+50			
19			
+50			
20			
+50			
+63 N. line Thomas Ave.			
	-6.09		
Pay Plug N. W. Cor. " "	+2.25	57.29	55.04
21			
+43 So. line " "			
+50			
22			
+50			
23			
+50			
24			
+12.5 N. line Reed Ave			
Plug S. W. Cor. " "	-9.79		47.50

Haines St. 76

	F Rod Elev	C Rod Elev	W Rod Elev
	4.7 56.4	6.4 54.7	7.5 53.6
	3.0 58.1	5.6 55.5	7.0 54.1
	2.8 58.3	4.2 56.9	6.2 54.9
	2.8 58.3	3.7 57.4	5.7 55.4
	3.3 57.8	4.2 56.9	5.6 55.5
	3.8 57.3	4.7 56.4	6.0 55.7
	4.1 57.0		6.1 55.0
	1.0 56.3	1.7 55.6	2.6 54.7
	1.9 55.4		3.4 53.9
	2.2 55.1	2.2 55.1	3.2 54.1
	3.4 53.9	3.2 54.1	3.9 53.4
	4.7 52.6	4.5 52.8	4.9 52.4
	6.0 51.3	5.8 51.5	6.0 51.3
	7.0 50.3	6.6 50.7	6.8 50.5
	8.1 49.2	7.6 49.7	7.8 49.5
	8.7 48.6	8.0 49.3	8.4 48.9

By Annie Rod
G Lambert Chain Aug 31 04
± Hill Elev

Haines St. 177
F C W
Rod Elev Rod Elev Rod Elev

78

Plhy J.E. Olney Vermont 69.52

B.S. +11.46 80.98

-1.62

Pay

+4.71

84.07

79.36

Pay N.W. Co. Noys + Vermont

-5.84

78.23

Pay at Sta. 14 Vermont

-4.10

79.97

2469.8

6+19.8

9+65.8

13+16.

16+66

20+61.2

24+11.1

2+70

6+20

9+66.6

13+16.9

16+67.

20+62

24+12.5

13+17.7

16+67.4

20+62.7

967.5

13+17.8

16+67

20+63

SW. Tho. Cass. 11.57
N. W. Reed + Cass. 8.85

2000 | 1728 2700 | 31.
 864) 2572
 1080

13+977

31
30

1045
80

1767
125
1842

1007.5
4

967.3

.04
be lower

28.06

29.06

N.W. 45.98

CS

2+70 10" 30" 30"

~~797~~
 +76.5
 18+18
 52+33
 53+13
 +13.5
 +93.
 79+72
 +52.3
 +23
 +58
 31+57 W. Side Jewel St.
 75+56.5
 81+30.5
 87+16.5
 87+55. Ant Motu
 92+1.0
 81+31.8
 87+11
 87+50.7
 +43

6+198
 9 67.5
 13+16
 24+105
 5+80
 11+59.7
 17+39.5
 23+19.6
 40+58 E. Broadway
 46+58 " Heinn
 46+57
 52+36
 58+152
 63+95
 64+74.8
 52+36.8
 58+16
 63+96.5
 69+76
 75+56
 81+35.2
 81+34.
 87+10
 91+27

178 270

10466

9666

16624

125

17924

1666

125

1791

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	8.73	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	30.80	94.97	31.32	94.85	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							

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