903
F.B.

LEVEL BOOK

No. 410 F

60
6.00

EUGENE DIETZGEN CO.
Drawing Materials and Surveying Instruments
NEW YORK. CHICAGO. SAN FRANCISCO.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING

ROADWAY 20 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

MICROFILMED
DEC 16 1964

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	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	0
1	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	1
2	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	2
3	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	3
4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	4
5	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	5
6	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	6
7	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	7
8	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	8
9	19.0	19 1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	9
10	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	10
11	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	11
12	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	12
13	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	13
14	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	14
15	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	15
16	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	16
17	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	17
18	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	18
19	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	19
20	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	20
21	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	21
22	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	22
23	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	23
24	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	24
25	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	25
26	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36 7	36.8	36.9	26
27	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	27
28	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38 9	28
29	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39 9	29
30	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	30
31	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	31
32	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	32
33	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	33
34	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	34
35	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	35
36	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	36
37	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	37
38	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48 8	48.9	38
39	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	39
40	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	40

Calculated by F. E. Paradis, C. E.

~~X~~ Sect. Columbia Street

T.P.	5.57	H.I. 144.18		138.61
	North line Curb			
E line			0.75	143.9
			1.7	142.5
			2.8	141.4
C			3.4	140.8
			4.2	140.0
			5.0	139.2
W line			6.88	137.3
	25' no.			
W line			9.5	134.7
			8.0	136.2
			7.0	137.2
C			5.7	138.5
			4.8	139.4
			4.0	140.2
E line			1.8	142.4

PLOTTED

See Book 897 page 76 } Fields Allen Bunker

Sept. 5/13

	144.2			
	50' no.			
E line			5.0	139.2
			6.5	137.7
			8.8	135.4
C			10.9	133.3
			13.8	130.4
			15.0	129.2
W line			14.5	129.7
T.P.	7.38	138.75	12.81	131.37
	58' no.			
W line			13.7	125.1
			8.9	129.9
			7.7	131.1
C			7.0	131.8
			5.8	133.0
			3.8	135.0
E line			0.7	138.1

138.8

66' no.

E line	0.5	138.3
	2.2	34.6
	3.3	35.5
C	4.9	33.9
	5.8	33.0
	7.7	31.1
W line	10.0	28.8

75' no.

W line	8.9	29.9
	7.2	31.6
	5.4	33.4
C	4.2	34.6
	3.1	35.7
	2.3	36.5
E line	1.2	37.6

PLOTTED

Columbia

2

138.8

100' no.

E line	3.1	135.7
	4.4	34.4
	5.1	33.7
C	5.8	33.0
	6.5	32.3
	7.2	31.6
W line	8.2	30.6

125' no.

W. line	11.4	27.4
	9.1	29.7
	8.6	30.2
C	8.1	30.7
	8.0	30.8
	6.9	31.9
E line	5.4	33.4

138.75

150' no.

E line			7.4	131.4
			9.1	29.7
			9.9	28.9
C			10.4	28.4
			10.4	28.4
			11.0	27.8
W line			12.7	26.1
T.P.	4.81	H.I. 130.44	13.12	125.63

175' no.

W line			8.4	22.0
			8.7	21.7
			8.8	21.6
C			8.2	22.2
			6.6	23.8
			5.0	25.4
E line			2.0	28.4

PLOTTED

Columbia

1304

200' no. (South line witherby)

E line	0.91	129.5
	3.3	27.1
	7.0	23.4
C	10.4	20.0
	13.2	17.2
	15.0	15.4
W line	18.3	12.1

PLOTTED

X sect. ~~Roark~~ miss Hills Blvd from 10' sidewalks 7½' quarters pueblo line at Neale. Sept. 5/13 { Childs, Atten, Bunker

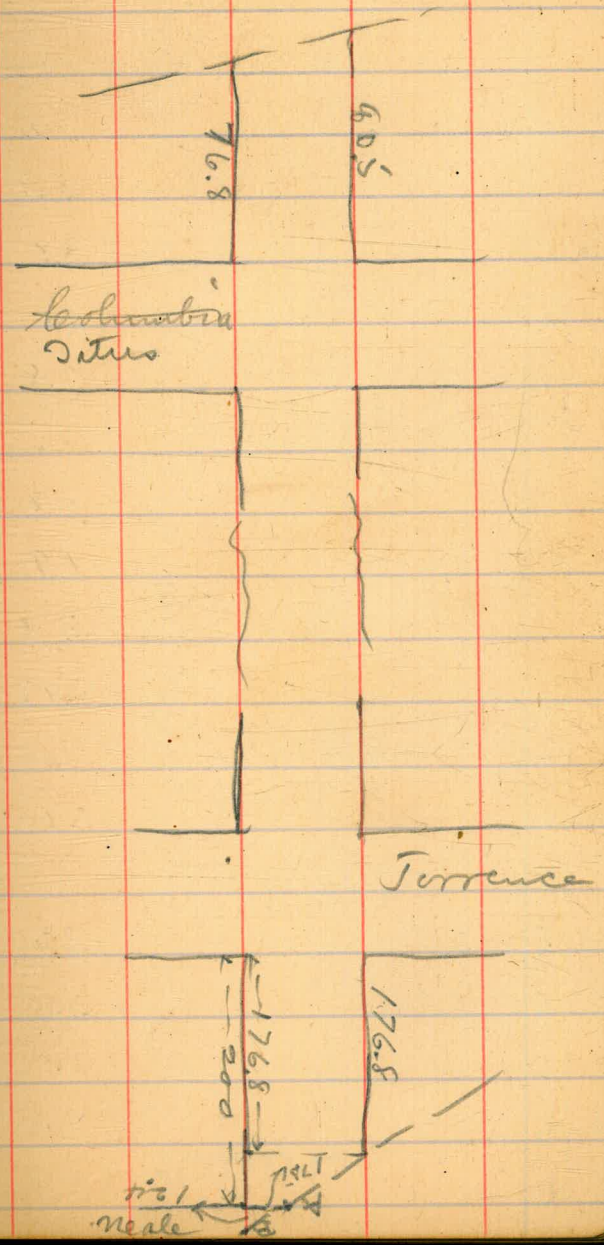
West of Columbia to pueblo line

		H.I.	
T.P.	5.47	97.40	91.93

pueblo line west of Col.

see diagram opposite page.

No. line	12.32	85.1
	11.1	86.3
	9.8	87.6
C	7.8	89.6
	5.8	91.6
	4.9	92.5
So line	3.28	94.1
	50' west ~~Columbia~~ Titus.	
So cb	1.5	95.9
	3.4	94.0
C	5.6	91.8
	7.2	90.2
	8.6	88.8
no line	9.9	87.5



PLOTTED

97.40

25' west ~~Columbia~~ Titus

No. line	7.9	89.5
	5.7	91.7
	3.0	94.4
C	1.8	95.6
So 1/4	0.8	96.6

West line ~~Columbia~~ Titus

Center	-0.2	97.6
	1.9	95.5
	3.9	93.5
no. line	5.47	91.9

East line ~~Columbia~~ Titus

no line	1.9	95.5

13' east

no line	4.7	92.7
2' so of no. line	3.0	94.4

25' east

no line	4.4	93.0
2' so of no. line	2.4	95.0

PLOTTED

97.40

50' east

no. line		3.6	93.8
2' so. of no. line.		1.6	95.8
T.P.	12.86	H.I. 109.86 0.40	97.00

50' west ~~Columbia~~ Titus

So. line	11.8	98.1

25' west ~~Columbia~~ Titus

So line	9.7	100.2
So. cb.	11.8	98.1

West line ~~Columbia~~ Titus

So. 1/4	10.1	99.8
	7.8	102.1
So line	5.67	104.3

East line ~~Columbia~~ Titus

So. cb.	2.0	107.9
	4.5	105.4
C	7.7	102.3
	9.6	100.3
No. cb.	11.6	98.3

109.9

13' east

no. cb.	11.5	98.4
	8.8	101.1
C	6.1	103.8
so 1/4	3.4	106.5

25' east

so 1/4	2.0	107.9
C	5.0	104.9
	7.7	102.2
no. cb.	11.3	98.6

50' east

no. cb.	8.5	101.4
	5.9	104.0
C	2.6	107.3

75' east

no. 1/4	3.0	106.9
	5.7	104.2
no. line	10.1	99.8

PLOTTED

Roark

109.86

100' east

13' no. slope.	13.5	96.4
no. line	8.4	101.5
	4.5	105.4
no 1/4	0.4	109.5

125' east

no. cb	2.4	107.5
no. line	6.5	103.4
15' no. slope.	16.5	93.4

150' east

20' no. slope.	12.7	97.2
no. line.	3.8	106.1

175' east

20' no. slope.	8.4	101.5

200' east (east line hardwood)

20' no. slope.	3.9	106.0

J.P.	12.96	H.I. 122.82	0.00	109.86
	East line Columbia		Titus	
So line			12.4	110.4
	13' east			
So line			9.8	13.0
So cb.			12.8	10.0
	25' east			
So cb.			11.7	11.1
So line			8.2	14.6
	50' east			
So line			6.6	16.2
			10.5	12.3
So 1/4			12.6	10.2
	75' east			
C			12.5	10.3
			9.1	13.7
			8.0	14.8
So line			3.5	19.3

PLOTTED.

	100' east			
So cb.			3.7	119.1
			6.5	16.3
C			9.6	13.2
	125' east			
No 1/4			11.8	11.0
C			8.6	14.2
			4.3	18.5
So cb.			1.6	21.2
	150' east			
So 1/4			3.8	19.0
C			7.2	15.6
			10.0	12.8
No cb.			12.1	10.7
	175' east			
No line			12.0	10.8
			8.2	14.6
			4.3	18.5
C			1.2	21.6

122.82

200' east (west line ~~Nunan~~ Linwood)

No. 1/4	0.3	122.5
	3.4	19.4
no line	8.37	114.45
west cb.		
no line	5.9	16.9
no. cb.	1.4	21.4
W 1/4		
no. cb.	0.6	22.2
no line	4.7	18.1
center		
no line	3.7	19.1
20' no. slope	10.3	12.5
E 1/4		
no line	2.1	20.7
E. cb.		
no line	1.4	21.4

PLOTTED

122,82 Roark

East line ~~Nunan~~ Linwood

20' no. slope.			11.1	111.7
no line			1.4	21.4
25' east				
15' no. slope.			10.0	12.8
50' east				
20' no. slope.			11.3	11.5
75' east				
20' no. slope.			4.6	18.2
T.P.	12.90	H.I. 135.72	0,00	122.82
100' east ~~Columbia~~ Titus				
so. line			12.9	22.8
125' east				
so. line			10.5	25.2
150' east				
so cb.			12.1	23.6
so line			7.0	28.7

135.7

175' east.

So line	3.7	132.0
	8.7	27.0
so 1/4	11.9	23.8
200' east (W. line linwood)		
C	11.1	24.4
	8.5	27.2
	5.5	30.2
So line	1.34	34.4
west cb.		
So line	0.5	35.2
	4.5	31.2
	8.0	27.7
C	10.2	25.5
no 1/4	11.4	24.3

PLOTTED

135.7

W 1/4

no 1/4	11.0	124.7
C	8.9	24.8
	6.2	29.5
So. cb.	3.0	32.7
Center		
So. cb.	2.6	33.1
	5.1	30.6
C	7.7	28.0
	10.4	25.3
no cb.	12.9	22.8
E 1/4		
no cb.	12.0	23.7
	8.8	25.9
C	5.7	30.0
	3.7	32.0
So cb.	0.8	34.9

1357

	E. cb.		
so. cb		0.3	135.4
		3.5	32.2
C		5.8	29.9
		8.4	27.3
no. cb.		11.4	24.3
	E. line. Union. Linwood		
no. cb.		10.5	25.2
		7.9	27.8
C		4.9	30.8
		2.6	33.1
so. cb,		0.0	35.7
	25' east.		
C		2.8	32.9
		6.4	29.3
		10.6	25.1
no line		15.8	19.9

PLOTTED

1357 Sept. 6/13 { Childs Otter Bunker

	50' east		
no. line		15.8	119.9
		11.0	24.7
		7.0	28.7
C		3.6	32.1
	75' east		
C		0.8	34.9
		3.7	32.0
		6.4	29.3
no. line		9.8	25.9
	100' east.		
20' no. slope		11.3	24.4
no. line		5.0	30.7
no. cb.		0.9	34.8
	125' east.		
20 no. slope.		4.9	30.8
	150' east		
20' no. slope		5.0	30.7

135.72

175' east

20' no. slope.		2.4	133.3

200' east (north line Burr Horton)

20' no. slope.		3.3	32.4

Center Horton.

20' no. slope.		2.3	33.4
T.P.	12.80 148.50 (Ht.)	0.02	135.70

W. 1/4 Linwood Street

So line		12.2	34.3

Center

So line		10.4	38.1

E 1/4

So line		9.4	39.1

E. cb.

So line		9.5	39.0

E line Linwood ~~Street~~

So line		8.8	39.7

PLOTTED

148.5' Roark

75' east

So line		5.3	143.7
		8.9	39.6
So 1/4		10.7	37.8

50' east

So 1/4		11.5	37.0
		6.1	42.4
So line		1.4	47.1

75' east

So. cb.		3.8	44.7
So 1/4		8.3	40.2

100' east

No 1/4		9.4	39.1
C		5.6	42.9
		2.7	45.8
So. cb.		0.7	47.8

148.5

125' east

20 C	1.5	147.0	no. line
	4.4	44.1	no. cb.
20	7.8	40.7	
no line	11.3	37.3	no cb.
20			no line

150' east

no line	8.6	39.9	
	4.2	44.3	no line
20 no 1/4	1.8	44.7	no. cb.

175' east

20 no. cb.	3.2	45.3	no. cb.
no line	8.5	40.0	no line

200' east (west line ~~Hatch~~ Guy)

A no line	8.05	40.5	20' no. slope.
no cb.	3.2	45.3	no. line

west cb.

A no. cb.	2.8	45.7	
no. line	7.4	41.1	20' no. slope.

PLOTTED

148.5

W 1/4

7.0	141.5	
2.4	46.1	

center

2.2	46.3	
6.8	41.7	

E 1/4

7.2	41.3	
2.5	46.0	

E. cb.

1.6	46.9	
5.1	43.4	

East line ~~Hatch~~ Guy

10.8	37.7	
4.0	44.5	

25' east

6.5	43.0	

148.50

50' east.

20' no. slope.			4.4	144.1
	75' east			
20' no. slope.			4.7	43.8
J.P.	12.79	H.I. 160.42	0.87	147.63
	75' E. Lunwood Union			
Soline			11.3	49.1
	100' E			
Soline			8.0	52.4
	125' E.			
Soline			4.7	55.7
			8.3	52.1
So 1/4			11.0	49.4
	150' E			
C			9.6	50.8
			7.0	53.4
			5.0	55.4
Soline			1.8	58.6

PLOTTED

Roark

160.4

175' E

Soline	0.2	160.2
	3.2	57.2
	4.4	56.0
C	6.8	53.6
no. 1/4.	10.8	49.6
200' E (westline Hatton) Guy		
no 1/4	11.1	49.3
C	8.1	52.3
	5.5	54.9
So. cb.	2.1	58.3
west cb.		
So. cb.	1.7	58.7
	4.3	56.1
C	7.8	52.6
no 1/4	11.0	49.4

1604

	W 1/4.		
no 1/4		11.1	149.3
C		8.3	52.1
		4.2	56.2
so.cb.		1.0	59.4
	Center		
so.cb.		1.0	59.4
		4.1	56.3
C		8.1	52.3
no 1/4		11.4	49.0
	E 1/4		
no 1/4		10.3	50.1
C		6.6	53.8
so 1/4		3.5	56.9
	E.cb.		
so 1/4		2.4	58.0
C		6.1	54.3
no 1/4		9.6	50.8

PLOTTED

1604 Roark

	E. line Gury Horton		
no cb.		11.8	148.6
		7.6	52.8
C		3.6	56.8
so 1/4		0.3	60.1
	25' E		
C		0.3	60.1
		3.9	56.5
		7.6	52.8
no line		11.3	49.1
	50' E		
no line		8.6	51.8
		5.0	55.4
no 1/4		1.2	59.2
	75' east.		
no cb.		3.2	57.2
no line		8.0	52.4

160.42

100' E.

20' no. slope.	16.0	144.4	
no line	7.7	137.7	
No. cb.	2.8	57.6	
125' E			
No line	3.5	54.9	
20' no slope.	11.2	49.2	
150' E			
20' no. slope	8.5	51.9	
no line	1.1	59.3	
175' E			
20' no. slope.	5.4	55.0	
200' E (west line gutterbank)			
20' no slope.	2.0	58.4	
J.P. 13.11	H.I. 173.30	0.23	160.19
West line ~~Horton~~ Guy			
do line	11.2	62.1	

PLOTTED

1733

W. cb.

do line	9.8	143.5
W 1/4		
do line	9.5	43.8
Center		
do. line	9.0	44.3
E 1/4		
do. line	8.4	44.9
do. cb.	13.2	40.1
E. cb.		
do. cb.	12.9	40.4
do line	7.6	45.7
E line Horton		
do line	6.5	44.8
do cb.	11.0	42.3
25' E		
do 1/4	9.7	43.4
	7.5	45.8
do line	3.6	49.7

1733

50' E

so. cb.	4.4	148.9
	6.8	44.5
C	9.9	43.4

75' E

no 1/4	12.2	41.1
C	8.6	44.7
	4.5	48.8
so. cb.	0.9	72.4

100' E

so cb.	1.8	71.5
	5.7	47.4
C	9.7	43.4
no 1/4	13.0	40.3

PLOTTED

1733

125' E

no. cb.	14.2	159.1
	11.2	43.1
C	7.6	45.7
so 1/4	3.9	49.4

150' E

so 1/4	2.3	71.0
C	5.5	47.8
	8.6	44.7
no. cb.	12.1	41.3

175' E

nothing	10.4	43.9
	7.7	45.4
	6.1	47.3
C	3.7	49.4
so 1/4	1.5	71.8

17.33

Sept. 8/13
173.30

Childs
Otter
Bunker

	200' E (west line Puterbaugh)			East line Puterbaugh)	
No 1/4		1.5	171.8	no. line	3.08	170.2
		4.1	49.2	20' no slope.	11.8	41.5
no. line		7.3	44.0	25' E		
	W. Cb.			20' no. slope.	10.0	43.3
no. line		5.5	47.8	no. line	1.5	71.8
no. cb.		2.2	71.1	50' E		
	W 1/4			20' no. slope.	8.7	44.4
no cb.		1.0	72.3	75' E		
no line		4.5	48.8	20' no. slope.	5.7	47.4
	Center			100' E		
20' no.	slope.	13.2	40.1	20' no slope.	0.6	72.7
no line		4.0	49.3	J.P.	12.94 H.I. 186.15	0.09	173.21
	E 1/4			50 E ~~Horton~~ Gray		
no line		3.5	49.8	so line	13.9	172.3
	E. cb.			75' E		
no line		3.4	49.9	so line	10.4	75.8
				100' E		
				so line	9.4	77.8

PLOTTED

		1847			
	125' E				
so. line			8.0	178.7	
so. cb.			13.0	73.7	
	150' E				
so. cb.			11.6	74.6	
so. line			6.2	80.0	
	175' E				
so line			8.0	78.7	
so cb.			11.8	74.4	
~~A~~	200' E (west line puterbaugh)				
C			12.2	74.0	
			9.9	76.3	
			7.2	79.0	
so line			3.8	87.4	

PLOTTED

Roark

		1847			
	W. cb.				
so line			2.5	183.7	
			5.5	80.7	
			8.4	77.8	
C			10.5	75.7	
no 1/4			12.3	75.9	
	W 1/4				
no 1/4			11.1	75.1	
C			9.2	77.0	
			7.1	79.4	
			4.5	81.7	
so line			1.8	84.4	

184.2

	Center		
so line		1.4	184.8
		4.1	82.1
		6.6	79.6
C		8.7	77.5
		10.3	75.9
no. cb.		12.8	73.4
	E 1/4		
no. cb.		12.5	73.7
		9.9	76.3
C		8.4	77.8
		6.5	79.7
		4.1	82.1
so line		0.9	85.3

PLOTTED

184.2

	E. cb.		
So line		0.0	184.2
		3.6	82.6
		6.9	79.3
C		9.0	77.2
		10.4	75.8
no. cb.		12.7	73.5
	E line Puterbaugh		
no cb.		12.5	73.7
		10.6	75.6
C		9.0	77.2
		6.1	80.1
so. cb.		3.2	83.0

1843

	25' E		
so. cb.		1.1	185.1
		4.0	82.2
C		7.4	78.8
		9.8	75.4
no. cb.		11.4	74.8
	50' E		
no line		11.8	74.4
		9.3	76.9
		6.6	79.6
C		4.6	81.6
so 1/4		2.3	83.9
	75' E		
C		2.1	84.1
		4.5	81.7
		6.3	79.9
no. line		9.0	77.2

PLOTTED

1843

	100' E		
no line		5.7	180.5
		3.8	82.4
no. 1/4		1.5	84.7
	125' E		
no. 1/4		0.5	85.7
		2.7	83.5
no. line		4.8	81.4
20' no slope.		15.5	70.7
	150' E		
20 no. slope.		19.5	66.7
no line		8.5	77.7
no. cb.		3.5	82.7
	175' E		
no. 1/4		0.6	85.6
		4.6	81.6
no line		10.1	76.1
20' no slope.		18.0	68.2

184.3

200' E (west line Torrence)

20' no. slope.	15.0	171.3
no line	6.72	79.5
no. cb.	2.4	83.8
W. cb.		
no. cb.	1.5	84.7
no line	6.7	79.5
W 1/4		
no line	6.9	79.3
no. cb.	1.8	84.4
Center		
no. cb.	2.1	84.1
No. line	7.0	79.3
20' no. slope.	15.3	70.9
E 1/4		
no line	7.2	79.0
no cb.	2.8	83.4

PLOTTED

Roark

186.15

E. cb.

No. cb.	2.8	183.4
no line	6.6	79.4
E line Torrence		
20' no. slope.	15.6	70.4
no. line	6.6	79.4
no. cb.	2.9	83.3
25' E		
no. line	4.6	81.4
20' no slope.	12.7	73.5
50' E		
20' no. slope.	10.5	75.7
no. line	1.8	84.4
75' E		
no. line	2.6	183.4
~~20~~ no. slope.	11.3	74.9
100' E		
20' no. slope.	12.9	73.3
no. line	5.6	80.4

T.P.	13.09	H.I. 198.73	0.51	185.64
	E. line Puterbaugh			
so. line			11.5	187.2
	25' E			
so. line			10.6	88.1
	50' E			
so line			6.8	91.9
so. cb.			11.0	87.7
	75' E			
so 1/4			11.0	87.7
			7.2	91.5
so. line			3.5	95.2
	100' E			
so. cb.			4.9	93.8
			8.3	90.4
C			11.3	87.4

PLOTTED

Roark

1987

	125' E		
C		10.0	188.7
		5.8	92.9
so. cb.		1.8	94.9
	150' E		
so. cb.		2.3	94.4
		6.2	92.5
C		9.5	89.2
no. 1/4		12.0	84.7
	175' E		
C		9.5	89.2
		7.0	91.7
so. cb.		3.3	95.4
	200' E (west line Torrence)		
so. cb.		2.7	94.0
		6.4	92.3
C		8.6	90.1
no. 1/4		11.3	87.4

1987

W. cb.

no. 1/4	9.6	189.1
c	7.7	91.0
	5.7	93.0
so. cb.	2.3	94.4

W. 1/4

so. cb.	2.3	94.4
	6.1	92.6
c	7.9	90.8
no 1/4	10.0	88.7

Center

no 1/4	10.4	88.3
c	8.0	90.7
	6.0	92.7
so. cb.	2.3	94.4

PLOTTED

Roark

1987

E 1/4

so. cb.	3.1	195.6
	6.3	92.4
c	9.0	89.7
no. 1/4	11.6	87.1

E. cb.

no 1/4	11.4	87.3
c	8.8	89.9
	5.9	92.8
so. cb.	2.7	94.0

E. line Torrence.

so. cb.	2.3	96.4
	5.7	93.0
c	8.4	90.3
no 1/4	11.0	87.7

1987

25' E

no. cb.	12.0	184.7
	9.3	89.4
C	6.5	97.2
so. 1/4	3.5	95.2

50' E

so 1/4	2.8	95.9
C	5.7	93.0
	8.4	90.3
no. cb.	9.9	88.8

75' E

no. cb	10.9	87.8
	8.6	90.1
C	5.4	93.3
so 1/4	3.0	95.7

PLOTTED

1987

100' E

so. cb.	1.5	197.2
	4.2	94.5
C	5.3	93.4
	8.0	90.7
no. cb.	12.9	85.8

125' E

no. 1/4	12.2	84.5
C	9.6	89.1
	6.8	91.9
so. cb.	4.1	94.6

150' E

so. line	0.8	97.9
	5.3	93.4
	9.4	89.3
C	13.0	85.7

198.73

176.8 E

so 1/4	11.4	187.3
	7.8	90.9
so line	4.5	94.3
200' E		
so line	3.4	95.3
	7.5	91.3
so 1/4 + pueblo line	10.6	88.1
Sect A.B. page 4		
so. 1/4 ~~Sect.~~	10.6	88.1
so cb.	6.9	91.8
so line	1.1	97.4
J.P. low turn	13.06	185.67
J.P. 1269 211.41 H.I.	0.01	198.72

PLOTTED

211.41 Rank

100' E Interbangle

so. line	14.6	194.8
125' E		
so line	11.7	99.7
150' E		
so line	10.1	201.3
175' E		
so line	10.8	200.4
200' E (W. line Torrence)		
so line	10.5	200.9
W. cb.		
so line	10.1	201.3
W 1/4		
so line	9.9	201.5
Center		
so line	9.9	201.5
E 1/4		
so line	10.4	201.0

211.4

E cb.

So. line	10.7	200.7
East line Fence		
So line	10.1	201.3
25' E		
So line	8.1	203.3
So. cb.	12.4	199.0
50' E		
So. cb.	11.6	199.8
So line	6.3	205.1
75' E		
So line	7.7	203.7
So. cb.	12.5	198.9
100' E		
So. line	8.5	202.9
125' E		
So. line	12.5	198.9
J.P.	0.11	211.30

PLOTTED

J.P.	H.I. 0.41 / 186.08		185.67
125' E Fence			
No. cb.		3.1	183.0
no. line		7.7	178.4
150' E			
no. line		10.8	175.3
No. cb.		6.1	180.0
no 1/4		3.2	182.9
176.8 East Fence			
C		2.7	183.4
		6.1	180.0
No. cb.		8.4	177.7
J.P.	H.I. 0.28 / 173.46	12.90	173.18
125' E Fence			
20' no. slope.		3.8	169.7
150' E			
20' no. slope.		6.2	167.3

173.46

176.8 E Fence

20' no. slope.			9.4	164.1
no. line			1.11	172.35
Check on Bench				
T.P.	12.90	H.I. 224.20		211.30
T.P.	12.33	H.I. 236.01	0.52	223.68
T.P.	12.69	H.I. 248.62	0.08	235.93
T.P.			6.85	241.77
B.M. N.E. Cor Fence & fringe				241.71

PLOTTED

X. sect. Union Street from So. line Pringle

to Henry & from Nearney to Witherby

Sept. 27/13

Chila
Allen
Bunker

		H.I.		
J.P. S.W. Cor. Columbia	12.76	141.94		129.18
& Pringle	12.85	154.58	0.21	141.73
	12.41	166.97	0.02	154.56
J.P.	5.71	171.40	1.28	165.69

So. line Pringle

W line	6.5	164.9
	5.5	65.9
	4.7	66.7
C	4.0	67.4
	3.1	68.3
	2.3	69.1
E line	0.8	70.6

So. Cb.

E line	1.2	70.2
	3.0	68.4
	3.7	67.7
C	4.5	66.9
	5.4	66.0
	6.2	65.2
W line	7.5	63.9

PLOTTED

171.40

So 1/4

W line	7.9	163.5
	6.3	65.1
	5.7	65.7
C	4.8	66.6
	3.6	67.8
	2.7	68.7
E line	1.4	70.0

Center

E line	1.7	69.7
	2.9	68.5
	4.1	67.3
C	5.2	66.2
	6.1	65.3
	7.0	64.4
W line	8.0	63.4

PLOTTED

171.4

no 14

White	8.5	47.9
	7.3	44.1
	6.5	44.9
C	5.6	45.8
	4.5	46.9
	3.3	48.1
E. line	1.9	49.5

no. 16.

E. line	2.2	49.2
	3.6	47.8
	4.8	46.6
C	6.0	45.4
	6.9	44.5
	7.8	43.6
White	9.0	42.4

PLOTTED

Union

171.4

no. line Pringle.

White	9.74	41.7
	8.2	43.2
	7.0	44.4
C	6.2	45.2
	5.3	46.1
	3.8	47.6
E. line	2.8	48.6

25' no.

E. line	3.4	48.0
	4.8	46.6
	5.8	45.6
C	6.9	44.5
	7.8	43.6
	8.4	43.0
White	10.2	61.2

PLOTTED

50' no.

W line	11.2	60.7
	9.4	62.0
	8.3	63.1
C	7.5	63.9
	6.3	65.1
	5.0	66.6
E line	3.7	67.7

75' no.

E line	4.3	67.1
	5.7	65.7
	6.7	64.7
C	8.0	63.4
	9.0	62.4
	10.2	61.2
W line	11.8	59.6

PLOTTED

100' no.

W line	12.1	59.3
	10.5	60.9
	9.1	62.3
C	8.0	63.4
	6.7	64.7
	5.6	65.8
E line	4.5	66.9

125' no.

E line	4.6	66.8
	6.1	65.3
	7.3	64.1
C	8.6	62.8
	9.7	61.7
	11.0	60.4
W line	12.5	58.9

171.40

150' no.

W line	12.3	159.1
	11.0	60.4
	9.9	61.5
C	8.6	62.8
	7.3	64.1
	6.0	65.4
E line	4.6	66.8

175' no.

E line	5.8	65
	6.9	64.5
	8.3	63.1
C	9.5	61.9
	10.9	60.5
	12.0	59.4
W line	13.3	58.1

PLOTTED

Union

171.40

200' no.

W.C.	13.3	158.1
	11.9	59.5
C	10.5	60.9
	9.6	61.8
	8.6	62.8
E line	6.8	64.6

225' no.

E line	9.3	62.1
	10.5	60.9
	11.6	59.8
C	12.7	58.7
J.P.	0.38 158.78	13.00 158.40

200' no.

W line	2.1	56.7

275' no.

W 1/4	1.1	57.7
	2.2	56.6
W line	3.6	55.2

158.78

250' no.

W line			7.9	150.9
			6.8	152.0
			5.8	153.0
C			5.0	153.8
			4.4	154.4
			3.7	155.1
E line			2.8	156.0

275' no.

E line			9.5	49.3
			11.3	47.5
			12.7	46.1
J.P.	0.15	146.02	12.91	145.87
C			0.4	145.6
			0.7	145.3
			1.6	144.4
W line			2.9	143.1

PLOTTED

146.02

300' no. (So. line Roark)

W line			11.69	134.33
			10.7	135.3
			9.8	136.2
C			8.1	137.9
			7.0	139.0
			7.0	139.0
E line			6.4	139.6
J.P.	0.72	133.80	12.94	133.08
J.P.	0.80	122.33	12.27	121.53
	~~0.8~~			

north line Roark.

E line			0.9	121.4
			1.0	121.3
			2.1	120.2
C			3.6	118.7
			4.3	118.0
			5.5	116.8
W line			7.94	114.39

T.P.	2.67	H.I. 112.07	12.93	109.40
	25' no.			
W line			8.5	103.6
			5.3	106.8
			2.8	109.3
C			1.2	110.9
			0.6	111.5
			1.7	110.4
E line			2.8	109.3
	40' no.			
E line 1' west cb.			15.5	96.6
			9.8	102.3
			7.1	105.0
			7.2	104.9
C			8.2	103.9
			9.2	102.9
			10.6	101.5
W line			12.0	100.1

PLOTTED

	112.07	Union	
	50' no.		
W line		13.2	98.9
		12.3	99.8
		11.6	100.5
C		10.6	101.5
		10.4	101.7
		11.8	100.3
E line		15.6	96.5
	69' no.		
E line		12.2	99.9
		13.1	99.0
		13.7	98.4
C		17.0	95.1
		17.0	95.1
		15.3	96.8
W line		15.9	96.2

PLOTTED

112.07

75' no.

W line	18.2	93.9
	18.0	94.1
	16.6	95.5
C	14.3	97.8
	13.6	98.5
	12.8	99.3
E line	12.1	100.0

100' no.

E line	8.6	103.5
	9.5	97.6
	10.1	102.0
C	11.6	100.5
	12.4	99.7
	12.2	99.9
W line	10.5	101.6

PLOTTED

Union

112.07

125' no.

W line			6.0	106.1
			6.5	105.6
			6.7	105.4
C			6.3	105.8
			5.8	106.3
			5.3	107.8
E line			5.2	106.9
		H.I.		Elev.
T.P.	12.94	124.79	0.22	111.85

150' no.

E line	12.2	112.6
	12.8	112.0
	13.1	111.7
C	12.8	112.0
	12.5	112.3
	12.0	112.8
W line	10.5	114.3

		124.79		
		175' no.		
W line			2.9	121.9
			3.1	121.7
			2.6	122.2
C			2.9	121.9
			3.3	121.5
			3.6	121.2
E line			3.9	120.9
T.P.	12.95	H.I. 137.47	0.27	124.52
		200' no.		
E. line			9.8	127.7
			9.9	27.6
			10.0	27.5
C			10.2	27.3
			10.3	27.2
			10.2	27.5
W line			10.4	27.1

PLOTTED

Sept. 29/13 137.47 {Childs, Allen, Bunker

		225' no.		
W line			3.6	133.9
			3.7	33.8
			4.0	33.5
C			4.4	33.1
			4.8	32.7
			5.1	32.4
E line			4.8	32.7
T.P.	12.70	H.I. 149.95	0.22	137.25
		250' no.		
E line			9.1	40.9
			9.3	40.7
			9.2	40.8
C			9.5	40.5
			9.6	40.4
			9.4	40.6
W line			9.3	40.7

149.95

275' no.

W line			0.9	149.1
			0.9	49.1
			1.2	48.8
C			1.7	48.3
			2.0	48.0
			2.1	47.9
E line			2.1	47.9
		H.I.		
J.P.	12.72	162.22	0.45	149.50

300' no (20-line blank)

E line			6.4	155.8
			5.4	154.8
			5.1	157.1
C			4.9	157.3
			4.7	157.5
			4.8	157.4
W line			4.74	157.48

PLOTTED

162.22 Union

20.66.

W line			1.9	160.3
			1.7	160.5
			1.6	160.6
C			1.3	160.9
			1.5	160.7
			1.9	160.3
E line			2.5	159.7
		H.I.		
J.P.	12.64	174.27	0.59	161.63

20/4

E. line			12.1	67.7
			11.5	67.8
			11.3	68.0
C			11.5	67.8
			11.7	67.6
			12.0	67.3
W line			12.1	67.2

174,27

Center

W line	9.7	144.4
	9.9	144.4
	9.8	144.5
C	9.6	144.7
	9.6	144.7
	9.7	144.6
E line	10.1	144.2

No. 4.

E line	7.8	144.5
	7.6	144.7
	7.1	147.2
C	7.2	147.1
	7.2	147.1
	7.1	147.2
W line	6.8	147.5

PLOTTED

174,27 Union 37

No. 6.

W line	3.9	170.4
	4.0	70.3
	4.1	70.2
C	4.6	149.7
	4.7	149.6
	5.1	149.2
E line	5.4	148.9

North line blank.

E line	2.18	172.09
	1.7	73.6
	1.6	73.7
C	1.2	73.1
	0.9	73.4
	0.8	73.5
W line	0.6	73.7

PLOTTED

T.P.	12.75	H.I. 186.87	0.15	174.12	
	25' no.				
White			4.4	187.5	
			4.1	82.8	
			4.7	82.7	
C			5.1	81.8	
			5.6	81.3	
			6.1	80.8	
E line			6.2	80.7	
T.P.	12.63	H.I. 199.51	-0.01	186.88	
	50' no.				
E. line			11.2	88.3	
			11.0	88.5	
			10.9	88.6	
C			11.5	88.0	
			11.9	87.6	
			12.3	87.2	
White			12.3	87.2	

PLOTTED

	75' no.	
White	8.7	190.8
	7.7	91.8
	7.3	92.2
C	6.9	92.6
	6.3	93.2
	6.2	93.3
E line	6.1	93.4
	100' no.	
E line	2.6	96.9
	3.1	96.4
	3.5	96.0
C	3.8	95.7
	4.5	95.0
	4.9	94.6
White	6.5	93.0

199.57

125' no.

W line			4.5	195.0
			3.3	96.3
			2.9	96.6
C			1.7	97.8
			0.9	98.6
			0.6	98.9
E line			-0.2	199.7
T.P.	12.20	H.I. 211.31	0.40	199.11

150' no.

E line			9.9	201.4
			10.3	201.0
			10.7	200.6
C			11.3	200.0
			12.1	199.2
			12.8	98.5
W line			13.8	97.5

PLOTTED

211.3 Union

175' no.

W line			11.8	199.5
			10.7	200.6
			10.1	201.3
C			9.5	201.8
			8.9	202.4
			8.3	203.0
E line			7.4	203.9

200' no.

E line			5.9	205.4
			6.5	204.8
			7.3	204.0
C			8.1	203.2
			8.9	202.4
			9.7	201.6
W line			10.7	200.6

211,3

225' no.

W line	10.2	201,1
	9.0	202,3
	8.2	203,1
C	7.4	203,9
	6.6	204,7
	5.4	205,9
E line	4.1	207,2

250' no.

E line	3.6	207,7
	4.9	206,4
	6.1	205,2
C	6.8	204,5
	7.5	203,8
	8.3	203,0
W line	9.9	201,4

PLOTTED

211,31 Union 40

275' no.

W line	9.0	202,3
	7.7	203,6
	6.8	204,5
C	5.9	205,4
	5.3	206,0
	4.3	207,0
E line	2.7	208,6
	B.N.	209,92
J.P. mor. S.E. cor Henry + Union.	1.49	209,82

300' no. (So. line Henry)

E line	2.6	208,7
	2.9	208,4
	3.6	207,7
C	4.5	206,8
	5.2	206,1
	6.0	205,3
W line	7.3	204,0

211.31

No. 6.

W line	6.3	205.0
	5.4	205.9
	4.5	206.8
C	3.7	207.6
	2.9	208.4
	2.2	209.1
E line	1.3	210.0

No 1/4

E line	0.7	210.6
	1.6	209.7
	2.2	209.1
C	3.1	208.2
	4.0	207.3
	4.9	206.4
W line	6.1	205.2

PLOTTED

Union

211.31

Center

W line	6.4	204.9
	5.0	206.3
	3.7	207.6
C	2.6	208.7
	1.8	209.5
	1.1	210.2
E line	0.2	211.1

No. 1/4

E line	0.5	211.8
	0.5	210.8
	1.3	210.0
C	2.1	209.2
	3.9	207.4
	5.2	206.1
W line	6.7	204.6

211.31

No. cb.

W line	7.1	204.2
	5.4	205.9
	4.0	207.3
C	2.2	209.1
	0.9	210.4
E cb.	0.0	211.3
~~E line~~	No. line Henry.	
E cb.	-0.6	211.9
	0.5	210.8
C	2.5	208.8
	4.3	207.0
	5.8	205.5
W line	7.6	203.7

H.I. 9.47 219.39

B.M. mon at S.E. cor Henry. 209.92

No. cb

E line 6.9 212.5

PLOTTED

No. line Henry

E line 6.3 213.1

219.39

So. line nearly.

E line	0.92	218.47
~~E line~~	1.6	17.8
	2.4	17.0
C	3.2	16.2
	4.4	15.0
	5.3	14.1
W line	6.4	13.0
So. cb.		
W line	8.2	11.2
	6.9	12.5
	6.2	13.2
C	5.2	14.2
	4.4	15.0
	3.5	15.9
E line	2.4	17.0

21939

So 1/4

E line		4.7	214.7
		6.2	13.2
		7.3	12.1
C		7.4	12.0
		8.2	11.2
		9.3	10.1
W line		10.0	209.4
	Center		
W line		13.0	206.4
		12.2	207.2
		12.5	206.9
C		11.0	208.4
		9.0	210.4
		8.1	211.3
E line		6.82	212.57

PLOTTED

21939 Union

No. 1/4

E line			9.4	210.0
			11.6	207.8
E 1/4			13.2	206.2
J.P.	0.33	H.I. 206.80	12.92	206.47
C			2.3	204.5
			5.0	201.8
			5.3	201.5
W line			5.0	201.8
	No. Cl.			
W line			9.3	197.5
			10.0	96.8
			8.2	98.6
C			6.2	200.4
			4.8	202.0
			3.5	203.3
E line			1.6	205.2

50 6.80

North line Nearney.

E line			7.7	199.1
			10.2	96.6
E 1/4.			13.0	93.8
T.P.	0.27	H.I. 194.15	12.92	193.88
C			2.2	92.0
			3.2	91.0
			3.9	90.3
W line			3.4	90.8
	75' no.			
E.cb.			13.0	81.2
E line			11.1	83.1
T.P.	0.21	H.I. 181.28	13.08	181.07
E 1/4			1.8	79.5
C			3.0	78.3
			4.4	76.9
			6.0	75.3
W line			6.6	74.7

PLOTTED

T.P.	1.10	H.I. 169.74	12.64	168.64
	50 no.			
W line			11.1	158.6
			9.8	158.9
			7.8	61.9
C			6.4	63.3
			5.3	64.4
			3.5	66.3
E line			1.9	67.8
T.P.	0.34	H.I. 157.50	12.58	157.16
	75' no.			
E line			2.7	154.8
			3.6	153.9
			4.5	153.0
C			6.2	151.3
			7.7	49.8
			8.2	49.3
W line			9.4	48.1

157.50

97' no.

W line	14.0	43.5
	14.0	43.5
	13.7	43.8
C	14.1	43.4
	15.0	42.5
	14.2	43.3
E line	13.0	44.5

100' no.

E line	12.1	45.4
	13.5	44.0
	14.3	43.2
C	14.6	42.9
	13.9	43.6
	14.3	43.2
W line	15.0	42.5

PLOTTED

157.50 Union

108' no.

W line	18.1	39.4
	17.2	40.3
	16.0	41.5
C	14.3	43.2
	13.0	44.5
	12.1	45.4
E line	10.6	46.9

125' no.

E line	5.8	51.7
	5.7	51.8
	6.4	51.1
C	7.6	49.9
	7.6	49.9
	8.6	48.9
W line	7.3	50.2

J.P.	12.77	H.I. 170.12	0.15	157.35
	150' no.			
W line			4.9	165.3
			4.1	166.0
			3.9	166.0
C			4.5	165.6
			5.4	164.7
			6.1	164.0
E line			5.8	164.3
J.P.	12.59	H.I. 182.81	0.20	169.92
	175' no.			
E line			3.6	79.2
			2.7	80.1
			2.2	80.6
C			0.7	82.1
			0.2	82.6
			0.4	82.4
W line			1.3	81.5

PLOTTED

J.P.	12.91	H.I. 195.42	0.30	182.51
	200' no.			
W.cb.			0.8	194.6
			1.1	94.3
C			1.8	93.6
			2.1	93.3
			2.8	92.6
E line			3.4	92.0
J.P.	12.62	H.I. 207.86	0.18	195.24
	200' no.			
W line			12.1	195.8
	225' no.			
E line			1.9	206.0
			1.6	206.3
			0.8	207.1
C			1.1	206.8
			1.1	206.8
			0.9	207.0
W line			0.7	207.2

J.P	12.92	H.I. 220.27	0.51	207.35
	250' no.			
W line			1.9	218.4
			1.5	18.8
W 1/4			0.7	19.6
J.P.	12.58	H.I. 232.47	0.38	219.89
C			11.1	21.4
			11.0	21.5
			10.5	22.0
E line			10.9	21.6
	275' no.			
E line			0.1	32.4
			0.6	31.9
			0.8	31.7
C			1.2	31.3
			1.9	30.6
			2.3	30.2
W line			2.9	29.9

PLOTTED

J.P.	8.82	H.I. 240.32	0.97	231.50
	300' no. (So. line miller)			
W line			7.3	233.0
			7.0	33.3
			6.6	33.7
C			6.2	34.1
			5.8	34.5
			5.6	34.7
E line			5.2	35.1
	North line miller			
E line			2.6	37.7
			3.0	37.3
			3.2	37.1
C			3.6	36.7
			4.0	36.3
			4.4	35.9
W line			4.9	35.4

240.37

75' no.

W line	3.9	336.4
	3.7	36.6
	3.2	37.1
C	2.9	37.4
	2.5	37.8
	2.0	38.3
E line	1.6	38.7

50' no.

E line	1.2	39.1
	1.7	38.6
	2.1	38.2
C	2.4	37.9
	2.8	37.5
	3.3	37.0
W line	4.0	36.3

PLOTTED

240.37

75' no.

W line	4.6	335.7
	4.0	36.3
	3.4	36.9
C	2.8	37.5
	2.4	37.9
	2.1	38.2
E line	1.6	38.7

100' no.

E line	2.9	37.4
	3.3	37.0
	3.7	36.6
C	4.3	36.0
	4.7	35.6
	5.2	35.1
W line	5.8	34.5

240.32

	125' no.		
White		6.8	233.5
		6.4	33.9
		5.9	34.4
C		5.5	34.8
		5.0	35.3
		4.5	35.8
Elite		4.0	36.3
	150' no.		
Elite		6.3	34.0
		7.0	33.3
		7.5	32.8
C		8.0	32.3
		8.6	31.7
		9.4	30.9
White		11.9	28.4

PLOTTED

240.32

	175' no.			
C			13.3	227.3
			12.6	27.7
			11.6	28.7
Elite			10.4	29.9
J.P.	0.00	H.I. 227.51	12.81	227.51
W 1/4	1		1.4	26.1
			2.1	25.4
White			3.0	24.5
	200' no.			
White			8.4	19.1
			7.5	20.0
			6.8	20.7
C			6.1	21.4
			5.7	21.8
			5.1	22.4
Elite			3.8	23.7

	227.51			
	225' no.			
E line		10.6	216.9	
		10.9	16.6	
		10.9	16.6	
C		11.7	15.8	
W 1/4		12.5	15.0	
T.P.	0.77	H.I. 215.33	12.95	214.56
cb.			1.2	14.1
W line			2.1	13.2
	250' no.			
W line			9.2	206.1
			8.9	206.4
			7.9	207.4
C			7.1	208.2
			6.5	208.8
			6.3	209.0
E line			5.5	209.8

PLOTTED

T.P.	0.77	H.I. 202.60	12.90	202.43
	275' no.			
E line			3.1	199.5
			3.9	98.7
			5.3	97.3
C			6.3	96.3
			5.6	97.0
			4.8	97.8
W line			4.7	97.9
T.P.	4.25	H.I. 194.55	12.30	190.30
	300' no. (At line Bandini)			
W line			11.7	82.9
			12.8	81.8
			13.0	81.6
C			15.2	79.4
			12.7	81.9
			10.9	83.7
E line			5.9	88.7

194.55

North line Bandini.

Check on Donnan's B.M.			0.97	193.58 / 193.56
E line			2.32	192.23
			2.2	92.4
			3.3	91.3
C			5.2	89.4
			7.6	87.0
			9.6	85.0
W line			11.9	82.7
	25' no.			
W line			3.5	91.1
W cb.			0.6	94.0
J.P.	1157	H.I. 205.88	0.24	194.31
W 1/4			10.3	95.6
C			8.6	97.3
			6.6	99.3
			4.1	201.8
E line			1.0	204.9

PLOTTED

205.88

	50' no.			
C			2.1	203.8
			3.9	202.0
			5.8	200.1
W line			9.1	196.8
	75' no.			
W line			6.3	199.6
W cb.			1.9	204.0
	100' no.			
W line			3.4	202.5
J.P.	9.72	H.I. 214.97	0.63	205.25
	50' no.			
E line			4.3	210.7
			6.6	208.4
E 1/4			8.3	206.7

214.97

75' no.

W ¼	9.3	205.7
C	6.8	208.2
	5.5	209.5
	3.8	211.2
E line	0.4	214.6

100' no.

E line	0.3	214.7
	3.3	211.7
	5.4	209.6
C	7.2	207.8
	8.9	206.1
W cb.	10.6	204.4

PLOTTED

214.97

125' no.

W line	13.7	201.3
	11.0	204.0
	9.1	205.9
C	6.9	208.1
	5.4	209.6
	3.5	211.5
E line	0.4	214.6

150' no.

E line	0.6	214.4
	4.8	210.2
	6.5	208.5
C	8.5	206.5
	10.4	204.6
	12.1	202.9
W line	14.6	200.4

21497

	175' no.		
W cb.		13.8	201.2
		11.8	203.2
C		10.1	204.9
		8.9	206.1
		6.5	208.5
E line		2.9	212.1
	200' no.		
E line		6.1	208.9
		9.0	206.0
		11.0	204.0
C		12.6	202.4
	225' no.		
C		13.8	201.2
		12.3	202.7
		10.5	204.5
E line	PLOTTED	7.8	207.2

214,97

	250' no.			
E line			8.4	206.6
			11.2	203.8
E 1/4			13.1	201.9
	275' no.			
E. cb.			14.0	201.0
E line			10.8	204.2
J.P.	0.39	H.I. 202.50	12.86	202.11
	175' no.			
W line			3.7	198.8
	200' no.			
W line			5.6	96.9
			3.2	99.3
W 1/4			1.7	200.8
	225' no.			
W 1/4.			3.5	99.0
			5.0	97.5
W line			7.5	95.0

202.50

250' no.

W line	11.6	190.9
	7.9	94.6
	6.2	96.3
C	3.7	98.8

275' no.

E 1/4	4.7	96.8
C	7.5	95.0
	9.5	93.0
W cb.	12.9	89.6

300' no. (so. line Conts)

W 1/4	12.5	190.0
C	10.7	91.8
	8.1	94.4
	5.2	97.3
E line	2.01	200.49

PLOTTED

202.50

North line Conts

E line	5.6	196.9
	9.2	93.3
E 1/4	12.6	89.9
	12.62	189.88
check on Domain stream.	12.62	189.96

25' no.

E 1/4	12.4	190.1
	9.8	92.7
E line	5.4	97.1

50' no.

E line	6.6	95.9
	10.1	92.4
E 1/4	12.3	90.2

75' no.

E 1/4	13.3	89.2
	11.1	91.4
E line	7.7	94.8

207.50

100' no.

E line		8.0	194.5
E.cb.		11.3	91.2

125' no.

E.cb.		12.0	90.5
E line		9.2	93.3

150' no.

E line		10.4	92.1
E.cb.		13.3	89.2

175' no.

E.cb.		13.8	88.7
E line		11.1	91.4

200 no. (So. line Witherby)

E line		11.33	191.17
E.cb.		14.2	88.3
T.P.	0.15	H.I. 190.03	126.2	189.88

PLOTTED

Union

190.03

275 no. Bandini.

W line	4.3	185.7

300' no. (So. line levels.)

W line	7.7	82.3
W.cb.	3.7	86.3

North line Courts.

W line	11.83	178.20
	8.7	81.3
	5.9	84.1
C	3.2	86.8

25' no.

C	2.8	87.2
	4.9	85.1
	6.8	83.2
W line	9.8	80.2

50' no.

White	8.9	181.1
	6.5	83.5
	4.4	85.6
C	2.0	88.8

75' no.

C	2.7	87.3
	4.6	85.4
	6.4	83.6
White	8.9	81.1

100' no.

White	9.1	80.9
	6.4	83.6
	4.2	85.8
C	2.5	87.5
E 1/4	0.4	89.6

PLOTTED

125' no.

E 1/4	1.5	188.5
C	4.0	86.0
	6.0	84.0
	7.9	82.1
White	10.3	79.7

150' no.

White	11.0	79.0
	8.4	81.6
	6.3	83.7
C	4.8	85.2
E 1/4	2.6	87.4

175' no.

E 1/4	2.7	87.3
C	5.0	85.0
	7.1	82.9
	9.2	80.8
White	11.8	78.2

190.03

200' no. (Do. line of withers)

W line	12.04	177.99
	9.5	80.5
	7.3	82.7
C	5.4	84.6
E 1/4	3.6	86.4

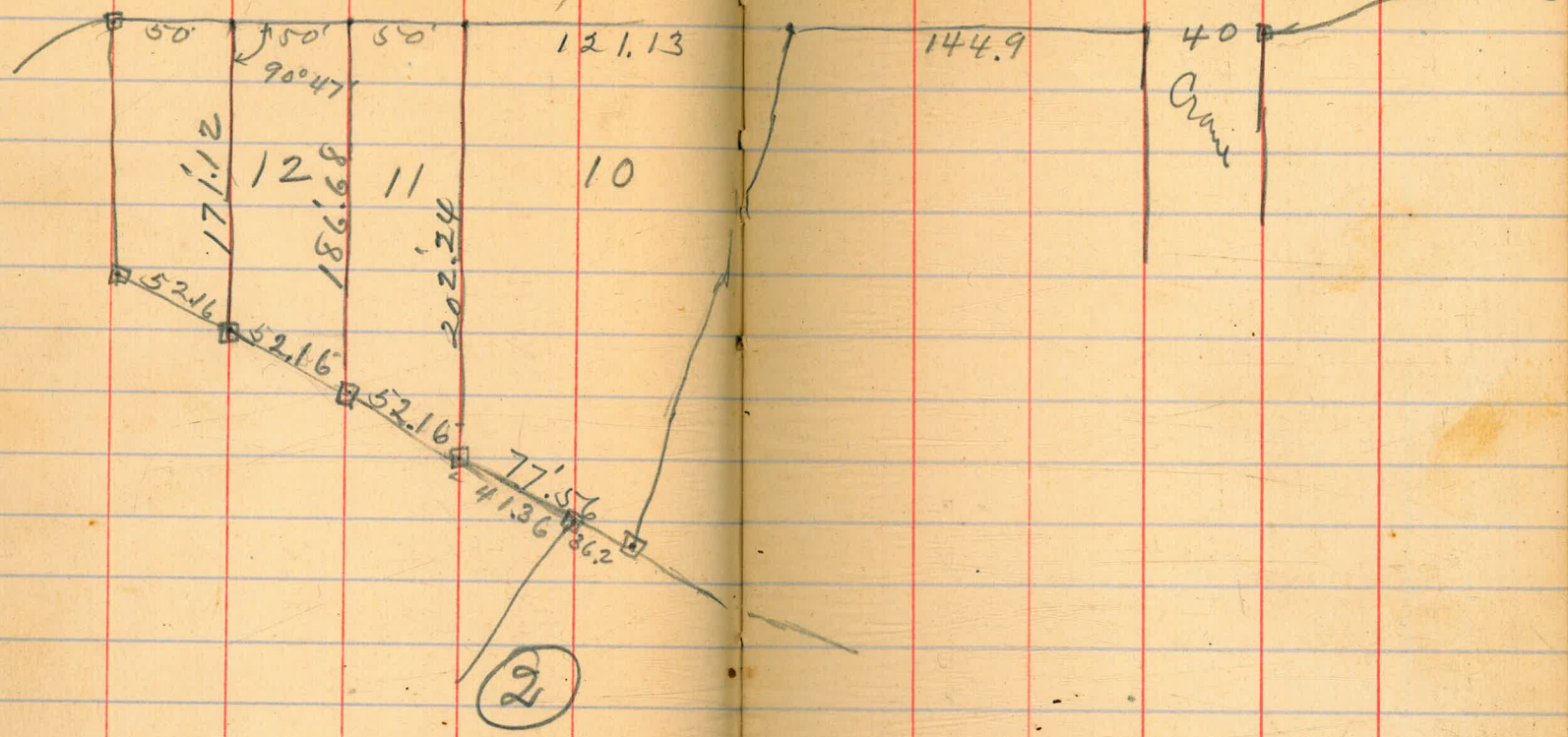
PLOTTED

Union St

PLOTTED

Survey of lots 10, 11 + 12 Blk. 2. Marine View { Childs Otter Bunker

Sutter street Sept. 30/13



Xsect 39th Cont. from

77.49 H.I.

So. cb. J. street.

E line	10.6	66.9
	10.2	67.3
	10.0	67.5
C	9.0	68.5
	8.7	68.8
	8.3	69.2
W line	8.2	69.3

South line J. street

W line	7.5	70.0
	8.2	69.3
	8.5	69.0
C	8.9	68.6
	9.3	68.2
	9.8	67.7
E line	10.1	67.4

PLOTTED

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Childs
Allen
Bunker

59

77.49

25' so.

E line	7.2	70.3
	6.9	70.6
	6.8	70.7
C	6.6	70.9
	6.5	71.0
	6.4	71.1
W line	5.6	71.9

50' so.

W line	3.5	73.0
	3.7	73.8
	3.7	73.8
C	3.6	73.9
	3.7	73.8
	4.2	73.3
E line	5.0	72.5

77,49

75' so.

Elmie			0.8	76.7
			0.6	76.9
			0.2	77.3
C			0.2	77.3
			0.5	77.0
			0.6	76.9
White			0.7	76.8
J.P.	11.84	H.I. 89.22	0.11	77.38

100' so.

White			9.1	80.1
			9.2	80.0
			9.0	80.2
C			8.9	80.3
			8.8	80.4
			9.3	79.9
Elmie			8.4	80.8

PLOTTED

89.22

125' so.

Elmie			6.6	82.6
			6.3	82.9
			6.1	83.1
C			6.0	83.2
			6.1	83.1
			6.2	83.0
White			6.0	83.2

150' so.

White			3.8	85.4
			3.8	85.4
			3.8	85.4
C			3.9	85.3
			4.4	84.8
			4.5	84.7
Elmie			4.7	84.5

89.22

175' RO.

E line			3.1	86.1
			2.7	86.5
			2.2	87.0
C			2.0	87.2
			1.7	87.5
			1.5	87.7
W line			1.5	87.7
		H.I.		
S-P.	8.24	97.17	0.29	88.93

200' RO.

W line			7.0	90.2
			7.5	89.7
			8.0	89.2
C			8.3	88.9
			8.6	88.6
			9.1	88.1
E line			9.4	87.8

PLOTTED

394h

97.17

225' RO.

E line	8.0	89.2
	7.7	89.5
	7.4	89.8
C	7.0	90.2
	6.5	90.7
	6.0	91.2
W line	5.5	91.7

250' RO.

W line	4.1	93.1
	4.8	92.4
	5.5	91.7
C	5.8	91.4
	6.2	91.0
	6.6	90.6
E line	6.8	90.4

97.17

26 5' so. (North line Florence)

E line	6.8	90.4
	6.3	90.9
	5.7	91.5
C	5.3	91.9
	4.7	92.5
	4.2	93.0
W line	3.9	93.3

North Cb.

W line	4.0	93.2
	4.2	93.0
	4.8	92.4
C	5.2	92.0
	5.7	91.5
	6.2	91.0
E line	6.6	90.6

PLOTTED

97.17

39th

No 1/4

E line	6.5	90.7
	6.0	91.2
	5.6	91.6
C	5.1	92.1
	4.6	92.6
	4.1	93.1
W line	3.8	93.4

Center

W line	3.7	93.5
	4.1	93.1
	4.6	92.6
C	5.1	92.1
	5.5	91.7
	6.0	91.2
E line	6.4	90.8

97.17

So. 1/4

E line	6.6	90.6
	5.9	91.3
	5.4	91.8
C	5.0	92.2
	4.5	90.7
	4.0	93.2
W line	3.6	93.6

So. cb.

W line	3.4	93.8
	3.8	93.4
	4.3	92.9
C	4.9	92.3
	5.3	91.9
	5.8	91.4
E line	6.5	90.7

PLOTTED

97.17 39th

South line Florence

E line	6.4	90.8
	6.1	91.1
	5.5	91.7
C	5.0	92.2
	4.5	92.7
	3.6	93.6
W line	3.2	94.0

25' So.

W line	2.4	94.8
	3.5	93.7
	4.8	92.4
C	5.4	91.8
	5.8	91.4
	6.4	90.8
E line	6.0	91.2

	9717				9717		
	50' so.				100' so.		
Elvire		5.8	91.4	Elvire		5.8	91.4
		6.3	90.9			6.5	90.7
		5.9	91.3			6.2	91.0
C		5.5	91.7	C		5.8	91.4
		5.1	92.1			5.6	91.6
		3.6	93.6			4.3	92.9
Whire		3.1	94.1	Whire		4.2	93.0
	75' so.				125' so.		
Whire		3.6	93.6	Whire		5.2	92.0
		3.9	93.3			5.1	92.1
		5.2	92.0			6.2	91.0
C		5.7	91.5	C		6.1	91.1
		6.0	91.2			6.5	90.7
		6.4	90.8			6.8	90.4
Elvire		5.6	91.6	Elvire		6.0	91.2

PLOTTED

97.17

150' Ro.

Ehrie	6.5	90.7
	7.2	90.0
	6.7	90.5
C	6.3	90.9
	6.2	91.0
	6.4	90.8
White	6.4	90.8

175' Ro.

White	7.1	90.1
	6.8	90.4
	6.4	90.8
C	6.5	90.7
	6.9	90.3
	7.6	89.6
Ehrie	6.8	90.4

PLOTTED

39th

97.17

200' Ro.

Ehrie	7.0	90.7
	7.7	89.5
	7.2	90.0
C	6.9	90.3
	7.1	90.1
	8.2	89.0
White	7.9	89.3

225' Ro.

White	7.2	90.0
	7.5	89.7
	7.1	90.1
C	7.3	89.9
	7.5	89.7
	8.1	89.1
Ehrie	7.2	90.0

97.17

250' so.

Elmo	7.4	89.8
	8.3	88.9
	7.7	89.5
C	7.5	89.7
	6.8	90.4
	6.2	91.0
White	5.8	91.4

258.1 so. (north line Logan)

White	6.22	90.95
	6.5	90.7
	7.0	90.7
C	7.6	89.6
	7.7	89.5
	8.3	88.9
Elmo	8.5	88.7

PLOTTED

39th

S.P. 195 H.I. 92.90 90.95

no. cl.

White	2.4	90.5
	2.8	90.1
	3.2	89.7
C	3.5	89.4
	3.7	89.2
	4.2	88.7
Elmo	4.3	88.6

no 1/4

Elmo Prop + 9'	3.7	89.2
	3.7	89.2
	4.5	88.4
	3.8	89.1
C	3.6	89.3
	3.1	89.8
	2.6	90.3
White	2.2	90.7

92.90

Center

W line	1.6	91.3
	2.1	90.8
	2.8	90.1
C	3.8	89.1
	4.0	88.9
	4.5	88.4
cb+1'	3.8	89.1
E line	3.8	89.1

So 1/4

E line	4.0	88.9
prop+9'	3.9	89.0
	4.8	88.1
	4.1	88.8
C	3.9	89.0
C+8	3.2	89.7
	2.5	90.4
	1.7	91.2
W line	1.3	91.6

PLOTTED

39th

Nov. 11/13 { Shields, Otten, Brunker

92.90

So. cb.

W line	1.1	91.8
	1.6	91.3
	2.3	90.6
	3.8	89.1
1/4+3' C	4.0	88.9
	4.3	88.6
	4.8	88.1
cb+1'	4.0	88.9
E line	4.0	88.9

South line Logan

E line	4.1	88.8
prop+9'	4.1	88.8
	5.0	87.9
	4.4	88.5
C	4.2	88.7
C+6'	4.1	88.8
	2.0	90.9
	1.6	91.3
W line	1.3	91.6

92.90

75' RO.

White	2.5	90.4
	2.3	90.6
	2.6	90.3
114+4' C	4.3	88.6
	4.5	88.4
	4.7	88.2
	5.3	87.6
CG+1' Elm	4.4	88.5
	4.4	88.5

50' RO.

Elm Prop+9'	4.7	88.2
	4.7	88.2
	5.8	87.1
	5.0	87.9
C C+7'	4.8	88.1
	4.8	88.1
	3.2	89.7
	2.8	90.1
White	3.1	89.8

PLOTTED

92.90

75' RO.

White	2.7	90.2
	2.5	90.4
	2.6	90.3
44+4' C	5.3	87.6
	5.1	87.8
	5.3	87.6
	6.1	86.8
CG+1' Elm	5.2	87.7
	5.1	87.8

100' RO.

Elm Prop+9'	5.4	87.5
	5.6	87.3
	6.5	86.4
	5.7	87.2
C C+6'	5.5	87.4
	5.4	87.5
	3.0	89.9
	2.7	90.2
White	2.5	90.4

92.90

125' RO.

W line	2.0	90.9
	2.2	90.7
	3.4	89.5
1/4+4'	5.9	87.0
C	5.9	87.0
	6.1	84.8
	6.8	84.1
CL+1'	6.0	84.9
E line	5.8	87.1

150' RO.

E line	6.3	84.6
prop+9'	6.3	84.6
	7.2	85.7
	6.5	84.4
C	6.2	84.7
C+6'	6.0	84.9
	3.3	89.6
	2.3	90.6
W line	2.0	90.9

PLOTTED

92.90

175' RO.

W line	2.7	90.2
	3.0	89.9
	4.7	88.2
1/4+4'	6.7	86.2
C	6.8	86.1
	7.0	85.9
	7.6	85.3
CL+1'	6.8	86.1
E line	6.8	86.1

200' RO.

E line	7.3	85.6
prop+9'	7.3	85.6
	8.2	84.7
	7.4	85.5
C	7.3	85.6
C+7'	7.3	85.6
	5.6	87.3
	4.5	88.4
W line	4.5	88.4

92.90

225' so.

W line	6.1	84.8
	6.1	84.8
CB + 7'	6.2	84.7
	7.9	85.0
C	7.8	85.1
	7.9	85.0
	8.6	84.3
CB + 1'	7.9	85.0
E line	7.8	85.1

250' so.

E line	8.3	84.6
prop + 9'	8.3	84.6
	9.0	83.9
	8.3	84.6
C	8.2	84.7
	8.1	84.8
	7.5	85.4
W line	7.6	85.3

PLOTTED

92.90 39th 10

275' so.

W line	8.4	84.5
	8.2	84.7
	8.6	84.3
C	8.6	84.3
	8.8	84.1
1/4 + 9'	9.4	83.5
	8.7	84.2
E line	8.6	84.3

300' so (north line natural)

E line	8.9	84.0
	8.97	83.93
CB + 1'	9.6	83.3
	9.1	83.8
C	9.0	83.9
	9.6	83.3
1/4 + 9'	9.8	83.1
	9.0	83.9
W line	8.8	84.1

92.90

South line National

W line	9.9	83.0
	10.1	82.8
CL+1'	10.8	82.1
	10.7	82.2
C	10.4	82.5
	10.6	82.3
1/4+9'	11.1	81.8
	10.10	82.80
E line	9.9	83.0

25' So.

E line	10.9	82.0
	11.2	81.7
gutter	12.1	80.8
	11.5	81.4
C	11.4	81.5
	11.1	81.8
	10.6	82.3
W line	10.6	82.3

PLOTTED

39th

92.90

71

50' So.

W line	11.7	81.3
	11.5	81.4
	11.4	81.5
1/4+5'	11.4	81.5
1/4 C+7'	12.5	80.4
	12.5	80.4
	12.6	80.3
gutter	13.1	79.8
	12.4	80.5
E line	12.1	80.8
	H.I.	
J.P. 226	82.09	13.07	79.83

75' So.

E line	2.5	79.4
	2.7	79.4
gutter	3.6	78.5
	3.0	79.1
	2.9	79.2
C+3'	2.7	79.4
1/4+5'	1.2	80.9
	1.4	80.7
	1.5	80.6
W line	1.6	80.5

87.09

100' so.

W line	2.6	79.5
	3.1	79.0
1/4 + 5	3.4	78.7
1/8 + 7	3.6	78.5
C	4.3	77.8
	4.4	77.7
	4.5	77.6
gutter	5.2	76.9
	4.2	77.9
E line	4.0	78.1

125' so.

E line	5.5	76.6
	5.8	76.3
gutter	6.7	75.4
	6.1	76.0
C	6.0	76.1
	5.1	77.0
	4.2	77.9
W line	3.6	78.5

PLOTTED

87.09

150' so.

W line	4.1	78.0
	5.3	76.8
	6.0	76.1
1/4 + 5' + 6'	6.4	75.7
C	7.4	74.7
	7.5	74.6
	7.7	74.4
gutter	8.4	73.7
	7.4	74.7
E line	7.2	74.9

175' so.

E line	8.9	73.2
	9.1	73.0
gutter	9.9	72.2
	9.3	72.8
C	9.0	73.1
C + 3' + 5' 1/4	8.8	73.3
	7.7	74.4
	7.2	74.9
	6.4	75.7
W line	5.5	76.6

82.09

200' so.

W line		6.2	75.9
		7.7	74.4
1/4 + 5' + 8' C		8.6	73.5
		9.0	73.1
		10.6	71.5
		10.7	71.4
gutter		11.0	71.1
		11.6	70.5
		10.9	71.2
E line		10.7	71.4

225' so.

E line		12.4	69.7
gutter		12.5	69.6
		13.1	69.0
		12.6	69.5
C C + 4'		12.4	69.7
		11.2	70.9
		10.3	71.8
		9.2	72.9
W line		8.2	73.9

PLOTTED

82.09

250' so.

W line			9.7	72.4
			10.5	71.6
			11.5	70.6
1/4 + 4'			11.6	70.5
		H.I.		
J.P.	0.08	69.64	12.53	69.56
1/4 + 7' C			1.9	67.7
			2.3	67.3
			2.5	67.1
gutter			3.0	66.6
			2.4	67.2
E line			2.2	67.4

275' so.

E line			4.0	65.6
			4.0	65.6
gutter			4.6	65.0
			4.0	65.6
C C + 4'			3.7	65.9
			2.0	67.6
			1.1	68.5
			0.5	69.1
W line			0.0	69.6

	6964				6964		
300' so. (northline W [illegible])				no 1/4			
Whine	~~to~~	1.3	68.3	Whine		3.3	66.3
		2.1	67.5			4.2	65.4
		2.5	67.1			5.0	64.6
1/4+6'		3.0	66.6	1/4+7'		5.7	63.9
C		5.2	64.4	C		7.1	62.5
		5.5	64.1			7.3	62.3
gutter		6.0	63.6	gutter		8.0	61.6
		5.5	64.1			7.4	62.2
Elm		5.6	64.0	Elm		7.5	62.1
no. Cb.				Center			
Elm		6.6	63.0	Elm		8.4	61.2
				Prop+8'		8.1	61.5
		6.6	63.0			8.8	60.8
gutter		7.1	62.5				
		6.5	63.1			8.0	61.6
C		6.1	63.5	C		7.9	61.7
C+3'		4.2	65.4	C+2'		6.6	63.0
		3.2	66.4			6.1	63.5
		2.7	66.9			5.5	64.1
Whine		2.1	67.5	Whine		4.9	64.7

PLOTTED

		69.64					
	So. 1/4				southline W		
W line		5.8	63.8	W line		7.8	61.8
		6.7	62.9			8.4	61.2
		7.2	62.4			8.6	61.0
C		7.5	62.1	C		8.9	60.7
C + 4		8.7	60.9				
		9.1	60.5			9.6	60.0
				1/4 + 1'		10.4	59.2
		9.4	60.2			11.3	58.3
E line		10.2	59.4	E line		11.5	58.1
	So. cb.				25' So.		
E line		10.8	58.8	E line		12.7	56.9
				Prop + 6'		12.3	57.3
		10.2	59.4			11.2	58.4
		10.0	59.6			11.3	58.3
1/4 + 4'		8.4	61.2				
C		8.2	61.4	C		11.1	58.5
		8.0	61.6			11.0	58.6
		7.4	62.2			10.8	58.8
W line		6.9	62.7	W line		10.7	58.9

PLOTTED

J.P.	6.67	H.I. 63.61	12.70	56.94
	50' so.			
White			7.2	56.4
			7.0	56.6
			6.8	56.8
C			6.7	56.9
			6.3	57.3
			6.1	57.5
Elsie			6.1	57.5
	75' so.			
Elsie			5.6	58.0
			5.8	57.8
			6.2	57.4
C			6.7	56.9
			7.0	56.6
			7.8	55.8
White			8.8	54.8

PLOTTED

39th

Nov. 12/13 { Childs, Otten, Bunker

6361

	100' so.			
White			7.1	56.5
			5.9	57.7
			5.5	58.1
C			5.0	58.6
			5.2	58.4
			5.2	58.4
Elsie			5.3	58.3
	125' so.			
Elsie			5.1	58.5
			4.7	58.9
			4.8	58.8
C			5.0	58.6
			5.0	58.6
			5.3	58.3
White			5.8	57.8

150' 20'

White	5.1	√8.5
	4.7	√8.9
	4.6	√9.0
C	4.5	√9.1
	4.2	√9.4
	4.3	√9.3
E line	4.8	√8.8

175' 20.

E line	4.9	√8.7
	4.5	√9.1
	4.3	√9.3
C	4.1	√9.5
	4.1	√9.5
	4.2	√9.4
White	4.6	√9.0

PLOTTED

200' 20.

White	5.5	√8.1
	5.1	√8.5
	4.7	√8.9
C	4.8	√8.8
	4.5	√9.1
	4.8	√8.8
E line	5.1	√8.5

225' 20.

E line	5.3	√8.3
	5.1	√8.5
	5.0	√8.6
C	5.2	√8.4
	5.2	√8.4
	5.6	√8.0
White	5.8	√7.8

6361

	250' so.		
White		7.3	56.3
		6.6	57.0
		6.4	57.2
C		6.0	57.6
		5.7	57.9
		5.7	57.9
E line		5.8	57.8
	275' so.		
E line		6.9	56.7
		7.0	56.6
		7.0	56.6
C		7.5	56.1
		8.3	55.3
		9.2	54.4
White		10.5	53.1

PLOTTED

	300' so. (northline Y.)		
White		14.7	48.9
		12.5	51.1
		11.1	52.5
C		9.9	53.7
		8.5	55.1
		8.1	55.5
E line		9.0	54.6
	no. cl.		
E line		11.1	52.5
		9.6	54.0
		10.6	53.0
C		12.4	51.2
	no. 1/4		
E 1/4		13.4	50.2
		12.8	50.8
E line		13.8	50.8

J.P.	075 H.I. 51.36	13.00	50.61
	No. cb- Y		
W line		6.3	45.1
		4.1	47.3
W 1/4		1.7	49.7
	No. 1/4		
C		3.0	48.4
		5.1	46.3
		7.5	43.9
W line		9.8	41.6
	Center		
W line		13.5	37.9
		10.9	40.5
		8.2	43.2
C		6.0	45.4
		3.4	48.0
		2.9	48.5
E line	PLOTTED	4.1	47.3

39th

51.36

	So. 1/4		
E line		6.5	44.9
		5.1	46.3
		6.5	44.9
C		8.5	42.9
W 1/4		11.2	40.2
	So cb.		
C		11.9	39.5
		9.8	41.6
		8.7	42.7
E line		9.6	41.8
J.P.	13' point mve. 3.10 H.I. 42.34	12.12	39.24
	So 1/4		
W line		8.1	34.2
W.cb.		5.2	37.1
	So cb.		
W 1/4		4.8	37.5
		7.8	34.5
W line		9.7	32.6

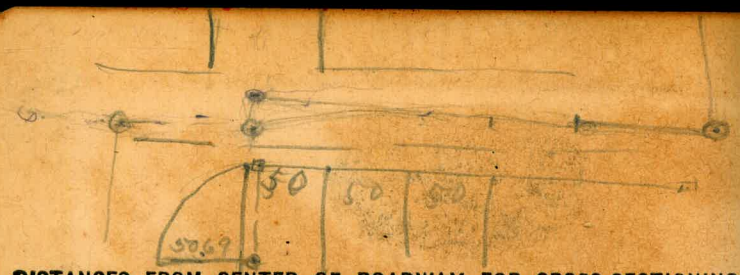
39th

4234

Fourth line Y

W line	12.3	30.0
	10.0	37.3
	8.5	33.8
C	6.0	34.3
	4.2	38.1
	3.8	38.5
E line	4.4	37.9
JF	10.24	32.10

PLOTTED



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 Feet Wide. Side Slopes 1½ to 1.

For Single Track Embankment.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12 8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21 8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23 6	23 8	23.9	24.1	24.2	24 4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30 2	30 4	14
15	30.5	30.7	30 8	31.0	31.1	31.3	31.4	31.6	31.7	31 9	15
16	32 0	32 2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33 5	33 7	33.8	34.0	34.1	34 3	34 4	34 6	34 7	34 9	17
18	35.0	35.2	35 3	35.5	35 6	35.8	35.9	36 1	36.2	36 4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39 8	40.0	40 1	40.3	40.4	40.6	40.7	40 9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42 8	43 0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44 3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46 7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48 8	49.0	49 1	49.3	49.4	49 6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51 1	51.2	51 4	28
29	51.5	51.7	51.8	52.0	52 1	52 3	52.4	52 6	52.7	52 9	29
30	53.0	53.2	53 3	53 5	53.6	53.8	53.9	54.1	54 2	54 4	30
31	54 5	54.7	54 8	55 0	55.1	55.3	55.4	55.6	55.7	55 9	31
32	56.0	56.2	56 3	56.5	56.6	56 8	56.9	57.1	57 2	57.4	32
33	57.5	57.7	57.8	58 0	58.1	58 3	58.4	58.6	58.7	58 9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62 6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63 7	63 8	64.0	64.1	64 3	64.4	64.6	64 7	64 9	37
38	65 0	65.2	65.3	65.5	65.6	65 8	65 9	66 1	66 2	66 4	38
39	66 5	66.7	66 8	67.0	67.1	67.3	67.4	67.6	67 7	67 9	39
40	68.0	68.2	68.3	68.5	68 6	68.8	68.9	69.1	69.2	69 4	40

Calculated by F. E. Paradis, C. E.

684
241.78

1285
195.36
0.12
195.24
238.32

EUGENE DIETZGEN CO.
MANUFACTURERS & IMPORTERS OF
DRAWING MATERIALS AND
SURVEYING INSTRUMENTS
NEW YORK, CHICAGO,
NEW ORLEANS & SAN FRANCISCO

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 14 Feet Wide. Side Slopes 1½ to 1.

For Single Track Embankment.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.00	7.15	7.30	7.45	7.60	7.75	7.90	8.05	8.20	8.35	0
1	8.50	8 65	8.80	8.95	9.10	9.25	9.40	9.55	9.70	9.85	1
2	10.00	10.15	10 30	10.45	10.60	10.75	10 90	11.05	11.20	11.35	2
3	11.50	11.65	11.80	11.95	12.10	12.25	12.40	12.55	12.70	12.85	3
4	13.00	13.15	13 30	13.45	13.60	13.75	13.90	14.05	14.20	14.35	4
5	14.50	14 65	14.80	14.95	15.10	15.25	15.40	15.55	15.70	15 85	5
6	16.00	16.15	16.30	16.45	16.60	16.75	16.90	17.05	17.20	17.35	6
7	17.50	17.65	17.80	17.95	18.10	18.25	18.40	18.55	18.70	18 85	7
8	19.00	19.15	19 30	19.45	19.60	19.75	19.90	20.05	20.20	20.35	8
9	20.50	20.65	20.80	20.95	21.10	21.25	21.40	21.55	21.70	21.85	9
10	22.00	22 15	22.30	22.45	22.60	22.75	22.90	23.05	23.20	23.35	10
11	23.50	23.65	23.80	23.95	24.10	24 25	24.40	24.55	24.70	24.85	11
12	25.00	25.15	25.30	25.45	25.60	25.75	25.90	26.05	26.20	26 35	12
13	26.50	26.65	26.80	26 95	27.10	27.25	27.40	27.55	27.70	27.85	13
14	28 00	28.15	28.30	28.45	28.60	28.75	28.90	29.05	29.20	29.35	14
15	29.50	29.65	29.80	29.95	30.10	30.25	30.40	30.55	30.70	30.85	15
16	31.00	31.15	31 30	31.45	31.60	31 75	31.90	32.05	32.20	32 35	16
17	32 50	32.65	32.80	32.95	33.10	33.25	33.40	33.55	33.70	33.85	17
18	34.00	34.15	34.30	34.45	34.60	34.75	34.90	35.05	35.20	35.35	18
19	35.50	35.65	35.80	35.95	36.10	36.25	36.40	36.55	36.70	36.85	19
20	37.00	37.15	37.30	37.45	37.60	37.75	37.90	38.05	38.20	38.35	20
21	38.50	38.65	38.80	38.95	39.10	39.25	39.40	39.55	39.70	39.85	21
22	40 00	40.15	40.30	40.45	40.60	40 75	40.90	41.05	41.20	41.35	22
23	41.50	41.65	41.80	41.95	42.10	42.25	42.40	42.55	42.70	42.85	23
24	43.00	43.15	43.30	43.45	43.60	43.75	43 90	44.05	44.20	44.35	24
25	44.50	44.65	44.80	44 95	45 10	45.25	45.40	45 55	45.70	45.85	25
26	46.00	46.15	46.30	46.45	46 60	46.75	46 90	47.05	47 20	47.35	26
27	47.50	47.65	47.80	47.95	48.10	48.25	48 40	48.55	48 70	48.85	27
28	49.00	49.15	49.30	49.45	49 60	49.75	49.90	50.05	50.20	50.35	28
29	50.50	50.65	50 80	50.95	51.10	51.25	51.40	51.55	51.70	51.85	29
30	52.00	52.15	52.30	52.45	52.60	52.75	52.90	53.05	53.20	53 35	30
31	53.50	53.65	53.80	53.95	54.10	54.25	54.40	54.55	54.70	54.85	31
32	55 00	55.15	55.30	55.45	55.60	55.75	55 90	56.05	56.20	56.35	32
33	56.50	56.65	56.80	56.95	57.10	57.25	57 40	57.55	57.70	57 85	33
34	58.00	58.15	58.30	58 45	58.60	58.75	58.90	59.05	59 20	59 35	34
35	59.50	59.65	59.80	59.95	60.10	60.25	60.40	60.55	60 70	60.85	35
36	61.00	61.15	61.30	61.45	61 60	61.75	61.90	62 05	62 20	62.35	36
37	62 50	62.65	62.80	62.95	63.10	63.25	63 40	63.55	63.70	63.85	37
38	64 00	64.15	64.30	64.45	64.60	64.75	64.90	65.05	65.20	65.35	38
39	65 50	65.65	65.80	65 95	66.10	66.25	66.40	66.55	66.70	66.85	39
40	67.00	67.15	67.30	67.45	67.60	67.75	67.90	68 05	68.20	68.35	40

Calculated by F. E. Paradis, C. E.