888
F.B.

LEVEL BOOK.

No. 410 T

Magnolia Pg 52

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.

	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.

CROSS-SECTIONS

~~EPSILON~~ STREET

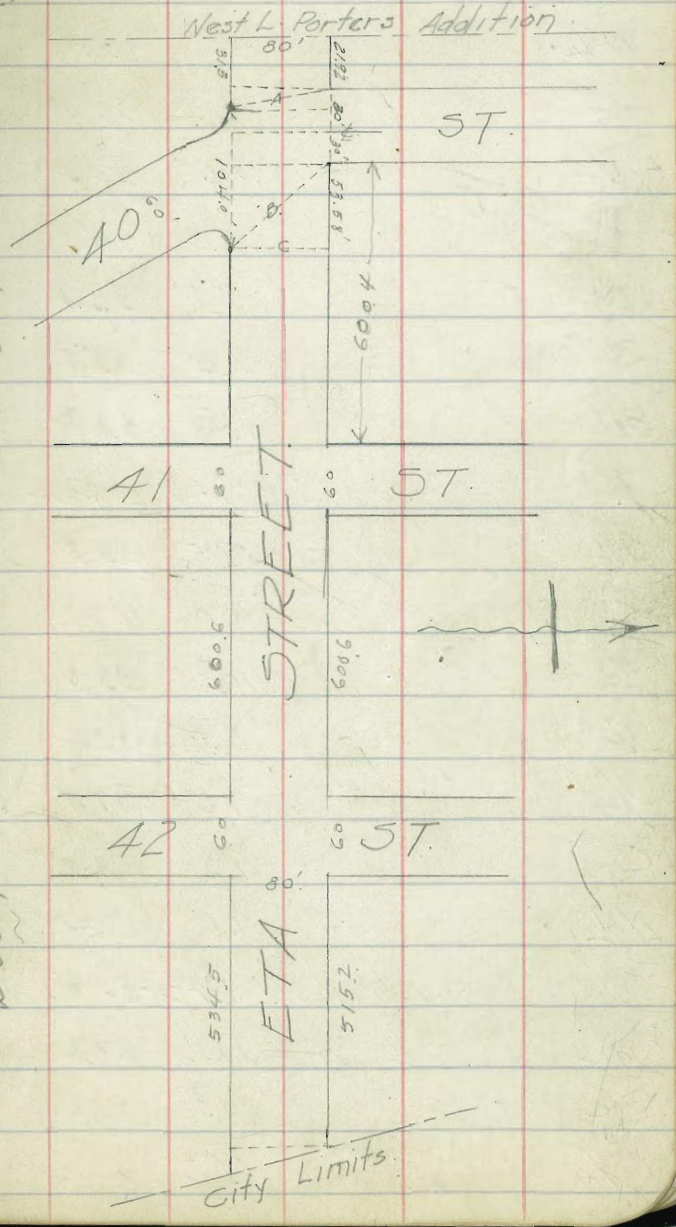
ETA 80 Wide. 14' Walks, 13 1/4's.

T.P. Tie Pt. 40 & Epsilon.				53.03
	1.28	54.31		
T.P.			12.85	41.46
	1.80	43.26		
		W.L. Porters Add.		
N.L			6.6	36.7
C			7.0	36.3
1/4			7.0	36.3
℄			6.4	36.9
1/4			6.2	37.1
C			6.1	37.2
S.L.			6.1	37.2
21.92 E. Porter W.L. 40 Produced.				
S.L			8.4	34.9
C			8.8	34.5
1/4			8.8	34.5
℄			8.7	34.6
1/4			9.5	33.8
C			9.8	33.5
N.L.			9.9	33.4

Add One Foot to all elevations, as ~~ar~~ T.P. is carried forward from back 600, all through.

April-15-1913.

West
Evans
Moore.



43.26

31.5 E on S - 29.92 E on N.

Sec A.

N.L.		9.9	33.4
C		10.3	33.0
1/4		10.0	33.3
℄		9.3	34.0
1/4		9.5	33.8
C		9.6	33.7
S.L.		9.5	33.8

31.5 E. of W.L. Porters Add.

S.L.		9.5	33.8
C		10.0	33.3
1/4		10.0	33.3
℄		10.7	32.6
1/4		11.6	31.7
C		11.3	32.0
N.L.		11.1	32.2

51.92 E of W.L. Porters - ℄ - 40 Prod.

N.L.		11.0	32.3
C		11.9	31.4
1/4		12.3	31.0

℄		12.0	31.3
1/4		11.9	31.4
C		12.1	31.2
S.L.		11.6	31.7

81.92 E of W.L. Porters Add - ℄ 40 Prod.

S.L.		15.3	28.0
C		15.3	28.0
1/4		14.8	28.5
℄		14.0	29.3
1/4		12.7	30.6
C		11.1	32.2.
N.L.		9.2	34.1

NE Hob. Car Add + Etd.
T.P. to be used for 40 St Xbars 9.22 34.04

Sec. B. = 81.92 E of Porters. on N.L.
135.5 " " " S.L.

N.L.		9.2	34.1
C		10.7	32.6
1/4		12.8	30.5
℄		13.5	29.8
1/4		13.7	29.6
C		13.6	29.7
S.L.		12.7	30.6

43.26

Sec C. 53.58' E. of E.L 40 St.

S.L	12.7	30.6	
C	12.1	31.2	
1/4	11.8	31.5	
℄	11.2	32.1	
1/4	10.5	32.8	
C	10.1	33.2	
N.L	18.9	34.4	
100' E. 40 St.			
N.L	4.0	39.3	
C	4.2	39.1	
1/4	4.0	39.3	
℄	4.2	39.1	
1/4	5.0	38.3	
C	6.3	37.0	
SL	7.5	35.8	
125' E			
SL	3.7	39.6	
C	2.2	41.1	
1/4	0.9	42.4	

43.26

℄	0.8	42.5	
1/4	0.4	42.9	
C	0.5	42.8	
NL	0.4	42.9	
T.P.	0.69	42.57	
652 49.09			
150' E			
NL	3.8	45.3	
C	4.0	45.1	
1/4	4.4	44.7	
℄	4.3	44.8	
1/4	5.2	43.9	
C	5.8	43.3	
SL	6.7	42.4	
175' E			
SL ~	4.6	44.5	
C	4.5	44.6	
1/4	3.7	45.4	
℄	3.7	45.4	
1/4	3.4	45.7	

	49.09		
N.C.		2.9	46.2
N.L		2.6	46.5
	200'E.		
N.L.		1.7	47.4
C		1.5	47.6
1/4		2.2	46.9
℄		3.2	45.9
1/4		3.0	46.1
C		3.5	45.6
S.L.		3.8	45.3
	250'E.		
S.L.		4.7	44.4
C		3.8	45.3
1/4		3.0	46.1
℄		2.8	46.3
1/4		2.6	46.5
C		3.1	46.0
NL.		3.2	45.9

	49.09		
	300'E.		
N.L.		3.7	45.4
C		4.0	45.1
1/4		4.4	44.7
℄		5.0	44.1
1/4		5.3	43.8
C		6.3	42.8
S.L.		7.2	41.9
	350'E		
S.L.		8.2	40.9
C		7.3	41.8
1/4		6.4	42.7
℄		6.1	43.0
1/4		4.9	44.2
C		4.2	44.9
N.L.		3.7	45.4
	400'E		
NL.		4.5	44.6
C		5.4	43.7
1/4		6.4	42.7

		49.09					41.25		
℄			7.0	42.1			500'E.		
1/4			7.1	42.0		-20		17.3	24.0
C			8.0	41.1		SL.		16.6	24.7
S.L.			9.4	39.7		C		15.1	26.2
		450'E.				1/4		14.6	26.7
S.L			16.0	39.1		℄		14.4	26.9
C			15.6	33.5		1/4		12.1	29.2
1/4			14.3	34.8		C		10.9	30.4
℄			13.7	35.4		NL		9.4	31.9
1/4			13.0	36.1		+20		8.8	32.5
C			12.4	36.7			525'E.		
NL			11.5	37.6		-20		6.5	34.8
T.P.	3.91	41.25	11.75	37.34		NL		7.5	33.8
		475'E.				C		8.5	32.8
NL			6.5	34.8		1/4		9.1	32.2
C			8.2	33.1		℄		8.9	32.4
1/4			8.8	32.5		1/4		9.3	32.0
℄			9.8	31.5		C		11.4	29.9
1/4			10.6	30.7		SL		14.2	27.1
C			12.0	29.3					
SL			12.6	28.7		+20		16.7	24.6
+20			13.3	28.0					

41+25

550'E.

-20	15.8	25.5	
SL	12.8	28.5	
C	8.7	32.6	
1/4	5.4	35.9	
℄	4.3	37.0	
1/4	4.7	36.6	
C	5.6	35.7	
NL	5.2	36.1	
+20	4.0	37.3	

575'E.

NL	2.8	38.5	
C	2.3	39.0	
1/4	2.2	39.1	
℄	2.6	38.7	
1/4	4.3	37.0	
C	7.7	33.6	
SL	11.1	30.3	
+20	14.5	26.8	

41+25

W.L. 41st. 60' Wide 10' Walks + 1/4's.

-20	15.1	26.2	
SL	11.4	29.9	309
C	8.0	33.3	343
1/4	5.4	35.9	369
℄	3.9	37.4	384
1/4	2.9	38.4	394
C	1.7	39.6	40.6
NL	2.0	39.3	40.3

W. Curb

NL	1.9	39.4	
C	1.3	40.0	
1/4	3.0	38.3	
℄	4.5	36.8	
1/4	5.5	35.8	
C	7.9	33.4	
SL	11.2	30.1	
+20	14.9	26.4	

41.25

W 1/4

-20		14.9	26.4	
SL		11.0	30.3	
C		7.5	33.8	
1/4		4.7	36.6	
℄		4.6	36.7	
1/4		3.1	38.2	
C		1.7	39.6	
NL		2.2	39.1	
Tie Pt. 41+Etq.				
T.P. to be used for x Secs 41 St.		1.88	39.37	
	℄ ~~42~~ St.	41		
NL		2.8	38.5	395
C		3.5	37.8	388
1/4		4.3	37.0	380
℄		4.8	36.5	375
1/4		5.2	36.1	371
C		7.7	33.6	346
SL		11.0	30.3	313
+20		15.4	25.9	

41.25

E 1/4

-20		15.4	25.9
SL		11.7	29.6
C		8.6	32.7
1/4		6.3	35.0
℄		5.9	35.4
1/4		4.9	36.4
C		4.1	37.2
NL		3.4	37.9
E. Curb			
NL		4.8	36.5
C		5.1	36.2
1/4		6.2	35.1
℄		7.3	34.0
1/4		8.5	32.8
C		10.0	31.3
SL		12.1	29.2
+20		14.9	26.4

41.25

E.L 41St.

-20		14.8	26.5	
SL.		12.0	29.3	30.3
C		10.4	30.9	31.9
1/4		9.6	31.7	32.7
℄		8.4	32.9	33.9
1/4		7.3	34.0	35.0
C		5.9	35.4	36.4
NL		5.6	35.7	36.7

25'E 41St.

N.L		10.0	31.3	
C		10.6	30.7	
1/4		11.0	30.3	
℄		11.7	29.6	
1/4		12.1	29.2	
C		12.4	28.9	
SL.		13.0	28.3	
+20		14.1	27.2	

41.25

50'E.

-20			15.9	25.4
SL.			15.1	26.2
C			14.5	26.8
1/4			13.7	27.6
℄			12.8	28.5
1/4			12.7	28.6
C			12.5	28.8
NL.			11.8	29.5
-20			11.2	30.1
T.P.	7.79	36.89	12.15	29.10

75'E.

-10			7.9	29.0
NL.			9.0	27.9
C			9.8	27.1
1/4			10.4	26.5
℄			10.9	26.0
1/4			11.3	25.6
C			12.0	24.9
SL.			12.7	24.2
+10			13.2	23.7

36.89

100'E.

-10	13.8	23.1
SL.	13.2	23.7
C	13.0	23.9
1/4	13.0	23.9
E	12.4	24.5
1/4	11.6	25.3
C	10.7	26.2
NL.	10.6	26.3
+10	9.8	27.1

125'E.

-10	10.4	26.5
NL.	11.0	25.9
C	11.5	25.4
1/4	12.5	24.4
E	13.0	23.9
1/4	13.7	23.2
C	14.9	22.0
SL.	18.9	18.0
+10	22.0	14.9

36.89

150'E.

-10	18.1	18.8
SL.	18.4	18.5
+5	22.4	14.5
+10	20.2	16.7
C	20.2	16.7
1/4	17.6	19.3
E	15.7	21.2
+10	13.0	23.9
1/4	12.8	24.1
C	12.0	24.9
N.L.	11.1	25.8
+10	10.7	26.2

175'E.

+0	11.7	25.2
NL	11.8	25.1
C	12.3	24.6
1/4	13.4	23.5
E	13.9	23.0
+3	14.3	22.6
1/4	17.6	19.3
+8	20.0	16.9
C - bottom hole	24.5	12.4
SL.	17.2	19.7
+10	18.3	18.6

36.89

200'E.

-10	19.6	17.9
-4	19.2	17.7
SL.	22.0	14.9
+4 = ditch bot.	23.5	13.4
C.	18.7	18.2
1/4	15.2	21.7
C	14.8	22.1
1/4	14.0	22.9
C	13.4	23.5
NL	12.7	24.2
+10	12.6	24.3

225'E.

-10	13.2	23.7
NL.	13.6	23.3
C	14.1	22.8
1/4	14.5	22.4
C	15.2	21.7
1/4	15.5	21.4
C	15.9	21.0
SL	17.5	19.4
+15 = Bot. ditch.	22.0	14.9

36.89

250'E.

-10	18.0	18.9
SL	16.8	20.1
C	16.5	20.4
1/4	16.0	20.9
C	15.6	21.3
1/4	15.0	21.9
C	14.7	22.2
NL.	14.1	22.8
+10	13.6	23.3

275'E.

-10	13.3	23.6
NL.	13.8	23.1
C	14.7	22.2
1/4	15.2	21.7
C	15.5	21.4
1/4	16.2	20.7
C	16.6	20.3
SL	17.3	19.6
+10	17.8	19.1

3689

300'E

-10	17.2	19.7
SL	17.0	19.9
C	16.4	20.5
1/4	15.7	21.2
℄	15.0	21.9
1/4	14.9	22.0
C	14.1	22.8
NL	13.2	23.7
+10	12.4	24.5

325'E

-10	10.5	26.4
NL	12.0	24.9
C	13.0	23.9
1/4	13.6	23.3
℄	14.0	22.9
1/4	14.9	22.0
C	15.6	21.3
SL	16.3	20.6
+10	16.9	20.0

3689

350'E

-10	15.8	21.1
SL	15.1	21.8
C	14.2	22.7
1/4	13.3	23.6
℄	13.0	23.9
1/4	12.3	24.6
C	11.5	25.4
NL	10.3	26.6
+10	9.2	27.7

375'E

-10	7.3	29.6
NL	7.7	29.2
C	8.3	28.6
1/4	8.9	28.0
℄	10.0	26.9
1/4	11.3	25.6
C	12.7	24.2
SL	14.1	22.8
+10	14.7	22.2

36.89

400'E

-10	12.9	24.0
SL	12.2	24.7
C	10.6	26.3
1/4	9.4	27.5
℄	8.1	28.8
1/4	6.7	30.2
C	5.0	31.9
NL	4.3	32.6
+10	4.8	32.1

425'E

-10	2.9	34.0
NL	2.6	34.3
C	2.8	34.1
1/4	3.3	33.6
℄	3.5	33.4
1/4	4.4	32.5
C	6.1	30.8
SL	7.9	29.0
+10	9.0	27.9

36.89

450'E

-10	5.6	31.3
SL	4.1	32.9
C	3.0	33.9
1/4	2.1	34.8
℄	1.9	35.0
1/4	1.5	35.4
C	0.9	36.0
NL	0.5	36.4

475'E

NL	0.4	36.5
C	1.0	35.9
1/4	1.1	35.8
℄	1.5	35.4
1/4	1.9	35.0
C	2.1	34.8
SL	2.8	34.1

		36.89		
		500'E		
SL		2.2	34.7	
C		1.8	35.1	
1/4		1.7	35.2	
℄		1.8	35.1	
1/4		1.1	35.8	
C		0.6	36.3	
NL		0.1	36.8	
T.P		1.70	35.19	
	45.9	39.78		
		525'E		
NL		3.7	36.1	
C		4.9	34.9	
1/4		6.4	33.4	
℄		7.3	32.5	
1/4		7.1	32.7	
C		6.8	33.0	
SL		7.2	32.6	
+10		8.0	31.8	

		39.78		
		550'E		
-10		11.3	28.5	
SL		10.7	29.1	
C		10.2	29.6	
1/4		10.7	29.1	
℄		10.1	29.7	
1/4		8.5	31.3	
C		7.1	32.7	
NL		6.0	33.8	
+10		4.6	35.2	
		575'E		
-10		7.5	32.3	
NL		8.5	31.3	
C		10.5	29.3	
1/4		11.6	28.2	
℄		12.8	27.0	
1/4		14.0	25.8	
C		14.2	25.6	
SL		15.0	24.8	
+10		15.3	24.5	

39.78

60' Wide
10' Walks + 1/4's

W. A. 42nd St.

-10		16.1	23.7
SL.		16.0	23.8
C.		15.2	24.6
1/4		14.6	25.2
℄		14.2	25.6
1/4		13.8	26.0
C		13.0	26.8
NL.		11.5	28.3
+		10.0	

W. Curb.

N.L.		12.4	27.4
C		13.7	26.1
1/4		13.8	26.0
℄		14.2	25.6
1/4		14.7	25.1
C		15.0	24.8
SL		15.3	24.5
+		15.8	24.0

39.78

W 1/4

-10		15.8	24.0
SL		15.3	24.5
C		14.7	25.1
1/4		14.4	25.4
℄		14.2	25.6
1/4		14.0	25.8
C		13.9	25.9
NL.		13.2	26.6

℄ 42 St

NL		13.1	26.7
C		13.5	26.3
1/4		12.7	27.1
℄		13.6	26.2
1/4		14.4	25.4
C		14.5	25.3
SL		15.0	24.8
+		15.4	24.4

39.78

E 1/4.

-10.	14.9	24.9
SL	14.5	25.3
C	13.4	26.4
1/4	13.1	26.7
℄	12.8	27.0
1/4	12.4	27.4
C	12.8	27.0
NL.	13.0	26.8

E. Curb.

NL.	12.7	27.1
C	12.3	27.5
1/4	11.9	27.9
℄	11.9	27.9
1/4	12.0	27.8
C	12.4	27.4
SL.	13.2	26.6
+10	13.8	26.0

39.78

E L 42 St.

-10	13.3	26.5
SL.	12.5	27.3
C	11.1	28.7
1/4	10.6	29.2
℄	10.3	29.5
1/4	10.3	29.5
C	11.1	28.7
NL.	12.1	27.7
Tie Point for 42 Xsec's. 42 - Etd.	12.99	26.79

25' E

NL	9.7	30.1
C	7.6	32.2
1/4	6.5	33.3
℄	7.1	32.7
1/4	7.6	32.2
C	9.3	30.5
SL.	10.6	29.2
+10	11.8	28.0

39.78

50'E

-10		10.7	29.1
SL		9.1	30.7
C		7.3	32.5
1/4		5.4	34.4
E		4.3	35.5
1/4		4.4	35.4
C		4.9	34.9
NL		6.3	33.5

75'E

NL		3.4	36.4
C		1.5	38.3
1/4		1.5	38.3
E		2.3	37.5
1/4		3.9	35.9
C		6.0	33.8
SL		7.8	32.0
+10		9.7	30.1

39.78

100'E

-10		8.4	31.4
SL		6.4	33.4
C		4.0	35.8
1/4		1.9	37.9
E		0.1	39.7
T.P.		0.39	39.39
	11.01 50.40		
N/4		9.7	40.7
C		10.0	40.4
NL		11.3	39.1
+10		12.5	37.9

125'E

NL		9.1	41.3
C		7.4	43.0
1/4		8.0	42.4
E		9.5	40.9
1/4		11.5	38.9
C		13.5	36.9
SL		15.2	35.2
+10		17.1	33.3

5040

150'E

-10		16.1	34.3
SL		13.8	36.6
C		12.1	38.3
1/4		9.6	40.8
℄		7.9	42.5
1/4		6.8	43.6
C		6.6	43.8
NL		7.8	42.6

175'E.

NL		7.3	43.1
C		6.5	43.9
1/4		6.0	44.4
℄		7.0	43.4
1/4		9.1	41.3
C		11.7	38.7
SL		13.9	36.5
+		15.1	35.3

5040

200'E.

-10		13.9	36.5
SL		13.0	37.4
C		10.8	39.6
1/4		9.2	41.2
℄		7.8	42.6
1/4		6.8	43.6
C		6.8	43.6
NL		7.3	43.1

225'E.

NL		6.9	43.5
C		7.1	43.3
1/4		7.4	43.0
℄		9.2	41.2
1/4		10.6	39.8
C		11.2	39.2
SL		12.0	38.4
+		12.9	37.5

5040		
250'E.		
SL.	10.5	39.9
C	10.5	39.9
1/4	10.1	40.3
℄	8.9	41.5
1/4	7.5	42.9
C	6.8	43.6
NL.	5.4	45.0
275'E		
NL.	4.9	45.6
C	6.4	44.0
1/4	6.7	43.7
℄	7.5	42.9
1/4	8.2	42.2
C	9.5	40.9
SL.	9.8	40.6
+10	9.9	40.5

5040		
300'E.		
-10	9.2	41.2
SL.	9.2	41.2
C	8.6	41.8
1/4	7.5	42.9
℄	7.0	43.4
1/4	6.2	44.2
C	5.3	45.1
NL.	4.5	45.9
325'E.		
NL.	3.4	47.0
C	4.2	46.2
1/4	5.1	45.3
℄	5.4	45.0
1/4	6.2	44.2
C	6.7	43.7
SL.	7.4	43.0
+10	8.4	42.0

5040

350'E.

-10		7.2	43.2
SL.		6.6	43.8
C		6.1	44.3
1/4		4.8	45.6
℄		4.3	46.1
1/4		4.6	45.8
C		3.6	46.9
NL.		3.0	47.4

375'E.

NL.		2.5	47.9
C		2.9	47.5
1/4		4.3	46.1
℄		4.3	46.1
1/4		5.0	45.4
C		5.7	44.7
SL		6.2	44.2
+10		6.8	43.6

5040

400'E.

SL.		5.9	44.5
C		5.4	45.0
1/4		5.1	45.3
℄		4.7	45.7
1/4		4.2	46.2
C		3.4	47.0
NL.		2.2	48.2

425'E.

NL.		3.2	47.2
C		3.8	46.6
1/4		3.7	46.7
℄		3.7	46.7
1/4		4.6	45.8
C		5.4	45.0
SL.		5.7	44.7

5040

450'E.

SL.	5.6	44.8
C	5.1	45.3
1/4	4.5	45.9
℄	4.3	46.1
1/4	4.5	45.9
C	4.4	46.0
NL	4.4	46.0

475'E.

NL.	4.2	46.2
C	5.1	45.3
1/4	6.0	44.4
℄	6.8	43.6
1/4	7.7	42.7
C	8.3	42.1
SL.	9.6	40.8
T.P. Mon. City Lim.	5.91	44.49
0.10	44.59	

44.59 on SL

510'E. = Edge fill Co Road.

SL	4.4	40.2
C	3.4	41.2
1/4	2.5	42.1
℄	1.4	43.2
1/4	0.6	44.0
C	00	44.6
NL.	+1.0	45.6

515.2'E = City Lim. on N.L.

SL.	6.9	37.7
C	6.7	37.9
1/4	6.3	38.3
℄	6.0	38.6
1/4	4.3	40.3
C	2.3	42.3
NL.	0.1	44.5

44.59

Sec. on City Lim. being

515.2' E on N.L. + 534.5' E on S.L.

N.L.	0.1	44.6	
C	3.5	41.1	
1/4	6.6	38.0	
℄	9.0	35.6	
1/4	10.8	33.8	
C	13.0	31.6	
S.L.	14.2	30.4	
Non. City Lim.		44.49	

12.80 57.29

N.L. Epsilon + City Lim. } Gr.	5.8	51.5	51.5
S.L. " " " " " }	3.0	54.3	54.4
	checks	O.K.	

CROSS-SECTIONS.

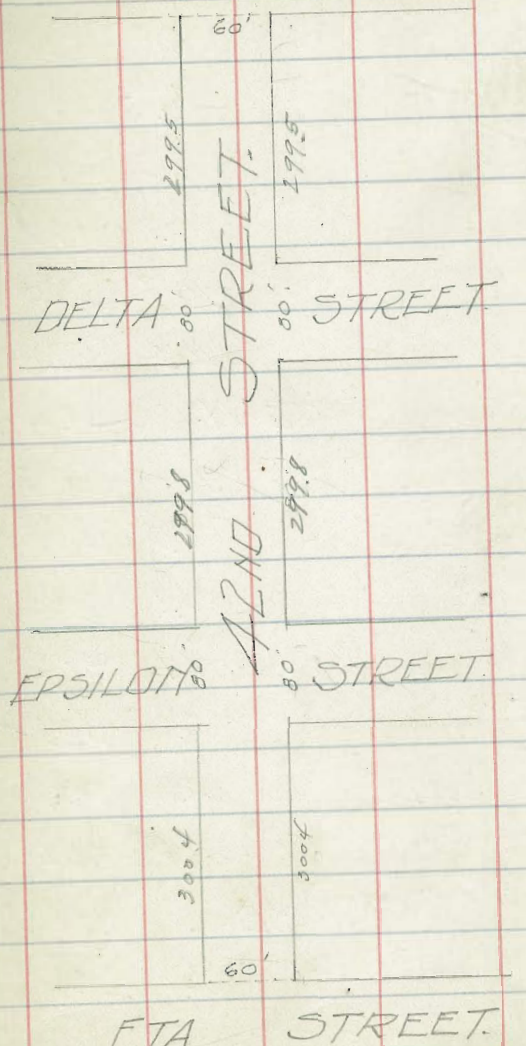
42nd St.

60' Wide, 10' Walks + 1/4's.

Tie Pt. 42+Epsilon			26.79	
	12.94	39.73		
		N.L. Eta St.		
WL.			11.4	28.3
C			12.3	27.4
1/4			13.1	26.6
℄			13.1	26.6
1/4			13.0	26.7
C			12.7	27.0
E.L.			12.1	27.6
		25' E.		
E.L.			12.0	27.7
C			12.1	27.6
1/4			12.2	27.5
℄			11.4	28.3
1/4			10.8	28.9
C			9.7	30.0
WL.			7.9	31.8

April 15 - 1913.
West
Moore
Evans.

See note p. 2



39.73

50' N of N.L. Eng.

W.L.	6.0	33.7
C	7.4	32.3
1/4	8.5	31.2
℄	9.6	30.1
1/4	9.9	29.8
C	10.7	29.0
E.L.	10.6	29.1

75' N.

E.L.	10.0	29.7
C	9.6	30.1
1/4	9.1	30.6
℄	8.1	31.6
1/4	6.9	32.8
C	5.8	33.9
W.L.	4.6	35.1

100' N.

W.L.	2.9	36.8
C	3.1	36.0
1/4	4.7	35.0

39.73

℄	5.7	34.0
1/4	6.7	33.0
C	7.4	32.3
E.L.	8.2	31.5
+5	9.5	30.2
+10	8.4	31.3
+12	8.3	31.4

125' N.

-10	6.1	33.6
-6	8.8	30.9
E.L.	8.8	30.9
+2	6.5	33.2
C	5.6	34.1
1/4	4.4	35.3
℄	3.5	36.2
1/4	2.3	37.4
C	1.2	38.5
W.L.	+0.1	39.8

		39.73		
		150' N.		
-10			4.1	35.6
EL.			7.7	32.0
+4			4.4	35.3
C			3.6	36.1
1/4			2.3	37.4
℄			1.3	38.6
1/4			0.1	39.6
T.P.			2.26	37.47
	12.74	50.21		
C			9.4	40.8
W.L.			8.2	42.0
		175' N.		
W.L			5.3	44.9
C			6.5	43.7
1/4			8.4	41.8
℄			9.8	40.4
1/4			11.7	38.5
C			13.0	37.2
+9 EL.			13.9	36.3
			17.0	33.2

		50.21		
-10			13.4	36.8
		200' N.		
-10			12.0	38.2
-5			15.4	34.8
E.L.			12.3	37.9
C			11.4	38.8
1/4			10.3	39.9
℄			8.3	41.9
1/4			6.3	43.9
C			4.8	45.4
W.L.			3.6	46.6
		225' N.		
W.L.			0.8	48.4
C			3.2	47.0
1/4			5.1	45.1
℄			7.3	42.9
1/4			9.8	40.4
C			10.7	39.5
+9			11.4	38.8
EL.			13.8	36.4
+10			10.3	39.9

50.21

250'N.

-10	10.3	39.9
E.L	10.7	39.5
C	10.8	39.4
1/4	9.9	40.3
℄	8.1	42.1
1/4	6.0	44.2
C	3.6	46.6
W.L.	0.7	49.5

275'N.

W.L.	2.7	47.5
C	5.3	44.9
1/4	6.9	43.3
℄	8.8	41.4
1/4	9.7	40.5
C	10.3	39.9
E.L.	9.6	40.6
+10	8.7	41.5

50.21

S.L Epsilon.

E.L	8.8	41.4
C	9.8	40.4
1/4	8.8	41.4
℄	7.3	42.9
1/4	6.4	43.8
C	5.2	45.0
W.L.	4.4	45.8

N.L Epsilon.

WL	5.8	44.4
C	7.0	43.2
1/4	7.8	42.4
℄	8.2	42.0
1/4	8.1	42.1
C	6.6	43.6
E.L.	6.1	44.1

50.21

25' N. Epsilon.

E.L.	4.5	45.7
C	5.2	45.0
1/4	6.1	44.1
℄	7.0	43.2
1/4	7.3	42.9
C	7.3	42.9
W.L.	6.8	43.4

50' N.

WL.	6.0	44.2
C	6.0	44.2
1/4	4.5	45.7
℄	4.4	45.8
1/4	4.0	46.2
C	3.2	47.0
EL.	2.7	47.5

75' N.

EL.	0.2	50.0
C	1.2	49.0
1/4	1.7	48.5

50.21

℄	2.7	47.5
1/4	3.0	47.2
C	4.0	46.2
W.L.	4.8	45.4
T.P.	1.13	49.08

12.16 61.24

100' E.

-10	13.9	47.3
WL.	14.2	47.0
C	13.1	48.1
1/4	12.2	49.1
℄	12.0	49.2
1/4	11.3	49.9
C	10.1	51.7
EL.	8.7	52.5

125' E.

-10	13.2	48.0
WL.	12.5	48.7
C	11.4	49.8
1/4	10.9	50.3
℄	11.1	50.1
1/4	10.2	51.0

	61.24		
C.	8.6	52.6	
E.L.	6.2	55.0	
	150'N.		
E.L.	5.9	55.3	
C	7.2	54.0	
1/4	8.0	51.2	
℄	9.1	52.1	
1/4	9.8	51.4	
C	10.3	50.9	
W.L.	11.0	50.2	
+10	11.9	49.3	
	200'N.		
-10	8.0	53.2	
W.L.	7.7	53.5	
C	7.4	53.8	
1/4	7.2	54.0	
℄	6.7	54.5	
1/4	5.8	55.4	
C	4.7	56.5	
E.L.	4.4	56.8	

	61.24		
	250'N.		
E/A	00	61.2	
℄	0.9	60.3	
1/4	1.5	59.7	
C	1.5	59.7	
W.L.	2.0	59.2	
+10	2.5	58.7	
T.P.	0.59	60.65	
12.48	73.13		
E.Curb	11.2	61.9	
E.L.	9.7	63.4	
	S.L. Delta St.		
E.L.	2.7	70.4	
C	3.3	69.8	
1/4	3.6	69.5	
℄	4.0	69.1	
1/4	4.5	68.6	
C	4.4	68.7	
W.L.	4.5	68.6	

7.13

N.L. Delta St.

WL.		7.9	65.2
C		7.9	65.2
1/4		8.5	64.6
℄		8.2	64.9
1/4		9.3	63.8
C		10.3	62.8
E.L.		11.2	61.9
	25'N.		
-15		14.1	59.0
E.L.		13.2	59.9
C		12.7	60.4
1/4		12.2	60.9
℄		11.7	61.4
1/4		11.2	61.9
C		10.7	62.4
WL.		10.4	62.7
+15		9.7	63.4

7.13

50'N.

-15		12.2	60.9
WL.		12.6	60.5
C		13.0	60.1
1/4		13.4	59.7
℄		13.4	59.7
1/4		13.8	59.3
C		14.2	58.9
EL.		14.9	58.2
+15.		15.9	57.2
T.P.		11.62	61.51
	12.85	7.36	75'N.
-15		19.5	54.9
EL		19.1	55.3
C		18.0	56.4
1/4		17.6	56.8
℄		17.2	57.2
1/4		16.6	57.8
C		15.7	58.7
WL.		15.4	59.0
+15		14.4	60.0

74.36

100' N.

-15	14.0	60.4	
W.L.	15.0	59.4	
C	16.3	58.1	
1/4	16.8	57.6	
E	17.1	57.3	
1/4	18.0	56.4	
C	18.2	56.2	
E.L.	18.3	56.1	
+15	19.1	55.3	

150' N.

-15	14.7	59.7	
EL.	14.3	60.1	
C	14.1	60.3	
1/4	14.2	60.2	
E	14.2	60.2	
1/4	13.9	60.5	
C	13.9	60.5	
WL.	13.1	61.3	
+15	12.5	61.9	

74.36

200' N.

-15	9.9	64.5	
WL.	10.1	64.3	
C	10.0	64.4	
1/4	10.1	64.3	
E	10.0	64.4	
1/4	9.9	64.5	
C	9.8	64.6	
EL.	10.1	64.3	
+15	10.2	64.2	

250' N.

-15	3.4	71.0	
EL.	3.3	71.1	
C	3.3	71.1	
1/4	4.0	70.4	
E	4.6	69.8	
1/4	4.8	69.6	
C	4.7	69.7	
W.L.	4.6	69.8	
+15	5.1	69.3	

		7436			
T.P.			1.39	72.97	
	11.40	84.37			
		SL. Gamma St.			
WL.			8.3	76.1	76.1
C			7.9	76.5	
1/4			7.9	76.5	
℄			7.9	76.5	
1/4			8.3	76.1	
C			8.4	76.0	
EL.			8.3	76.1	76.0

Checks OK

CROSS-SECTIONS.

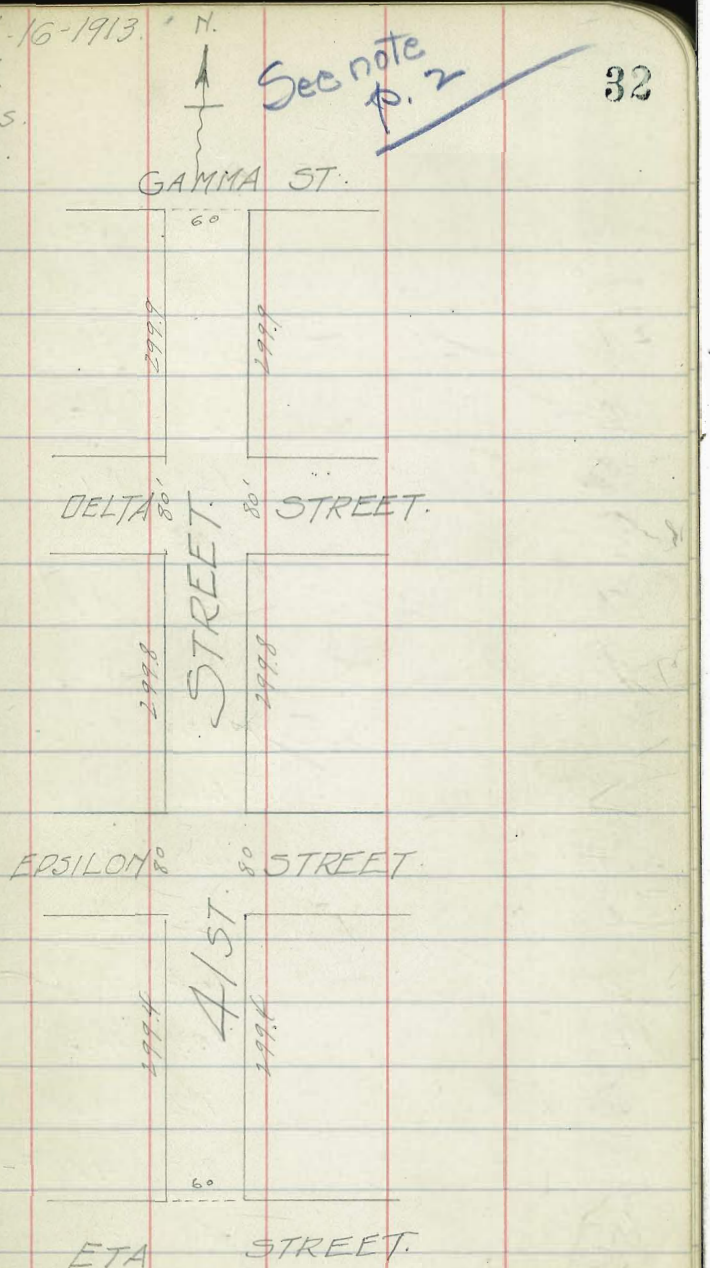
41 STREET.

60' Wide, 10' Walks + 1/4's.

Mon. Cor 41st & Eta St.				39.37	
	12.70	52.07			
		N.L. Eta St.			
W.L.			12.9	39.2	402
C			12.8	39.3	
1/4			13.0	39.1	
℄			13.7	38.4	394
1/4			14.4	37.7	
C			15.4	36.7	
E.L.			16.1	36.0	370
		25' N.			
-15			18.0	34.1	
E.L.			16.0	36.1	371
C			14.8	37.3	
1/4			14.0	38.1	
℄			13.2	38.9	399
C			13.0	39.1	
W/4			12.8	39.3	
WL			12.5	39.6	406

April-16-1913.
West.
Evans.
Moore.

See note p. 2



52.07

50' N.

WL.	11.4	40.7		41.7
C	11.7	40.4		
¼	11.6	40.5		
℄	12.0	40.1		41.1
¼	12.9	39.2		
C	14.0	38.1		
EL	15.0	37.1		38.1
+15	16.0	36.1		.3

75' N

-15	14.4	37.7		
EL.	12.9	39.2		40.2
C	12.0	40.1		
¼	11.2	40.9		
℄	10.1	42.0		43.0
¼	9.2	42.9		
C	9.0	43.1		
WL	9.1	43.0		44.0

52.07

100' N.

WL	7.5	44.6		45.6
C	8.2	43.9		
¼	9.3	42.8		
℄	9.9	42.2		43.2
¼	10.3	41.8		
C	11.0	41.1		
EL	11.8	40.3		41.3
+15	13.8	38.3		

125' N.

-15	12.8	39.3		
EL.	9.8	42.3		43.3
C	9.0	43.1		
¼	8.9	43.2		
℄	8.2	43.9		44.9
¼	7.1	45.0		
C	6.5	45.6		
WL.	6.3	45.8		46.8

52.07

150' N.

WL	4.9	47.2	48.2	
C	5.2	47.0		
1/4	6.0	46.1		
E	6.8	45.3	46.3	
1/4	7.7	44.4		
C	8.8	43.3		
EL	10.2	41.9	42.9	
+15	13.2	38.9		

175' N.

-15	12.3	39.8		
EL	9.9	42.2	43.2	
C	7.2	44.9		
1/4	5.9	46.2		
E	5.5	46.6	47.6	
1/4	5.1	47.0		
C	4.5	47.6		
WL	3.7	48.4	49.4	

52.07

200' N.

WL	3.9	48.2	49.2	
C	4.2	47.9		
1/4	4.4	47.7		
E	5.5	46.6	47.6	
1/4	6.6	45.5		
C	8.3	43.8		
EL	10.0	42.1	43.1	
+15	12.5	39.6		

225' N.

-15	bottom draw.	12.3	39.8	
EL		10.0	42.1	43.1
C		7.6	44.5	
1/4		5.5	46.6	
E		3.6	48.5	49.5
1/4		2.9	49.2	
C		2.7	49.4	
WL		2.6	49.3	50.3

52.07

250 W.

W.L.	0.2	51.9	52.9	
C	0.9	51.2		
1/4	2.5	49.6		
℄	4.0	48.1	49.1	
1/4	5.5	46.6		
C	6.7	45.4		
E.L.	8.1	44.0	450	
+15	10.6	41.5		
+20	11.4	40.7		
+30	10.0	42.1		

275' W.

+30	bottom draw.	11.0	41.1	
-15		9.3	42.8	
E.L.		6.1	46.0	49.0
C		4.1	48.0	
1/4		3.7	48.4	
℄		2.8	49.3	50.3
1/4		2.1	50.0	
C		1.2	50.9	
WL.		0.4	51.7	52.9

52.07

S.L. Epsilon

WL	+0.4	52.5	53.8	
C	+0.4	52.5		
1/4	+0.1	52.2		
℄	0.6	51.5	52.8	
1/4	1.5	50.6		
C	2.6	49.5		
E.L.	3.9	48.2	49.2	
T.P.	0.42	51.65		
	11.64	63.29		
S.W. Cor. 41 Epsilon	10.81	52.48	52.53 51.48	

NL Epsilon.

EL.	9.0	54.3	55.3
C	8.3	55.0	
1/4	7.3	56.0	
℄	6.2	57.1	58.1
1/4	6.4	56.9	
C	6.2	57.1	
WL.	6.2	57.1	58.1

6329

25' N.

WL.		4.8	58.5	59.5	
C		5.0	58.3		
1/4		5.4	57.9		
℄		5.5	57.8	58.8	
1/4		6.5	56.8		
C		7.7	55.6		
EL.		9.6	53.7	54.7	
+ 40	bottom drawn.	14.4	48.9		

50' N.

- 30	bottom.	13.1	50.2		
EL.		9.8	53.5	54.5	
C		8.0	55.3		
1/4		6.7	56.6		
℄		5.4	57.9	58.9	
1/4		5.2	58.1		
C		4.8	58.5		
W.L.		4.8	58.5	59.5	

6329

75' N.

WL.		5.9	57.4	58.4	
C		6.1	57.2		
1/4		6.4	56.9		
℄		6.5	56.8	57.8	
1/4		7.7	55.6		
C		8.2	55.1		
EL		9.3	54.0	55.0	
+ 30	bottom.	12.0	51.3		

100' N.

-	bottom.	10.3	53.0		
EL		8.3	55.0	56.0	
C		7.8	55.5		
1/4		7.2	56.1		
℄		6.2	57.1	58.1	
1/4		6.3	57.0		
C		6.0	57.3		
WL		5.6	57.7	58.7	

		6329			
		125'N.			
WL.			3.2	60.1	61.1
C			3.2	60.1	
1/4			4.7	58.6	
℄			4.8	58.5	59.5
1/4			5.5	57.8	
C			5.1	58.2	
EL.			5.3	58.0	59.0
+15			6.4	56.9	
		150'N			
- N			5.0	58.3	
EL.			3.1	60.2	61.2
C			3.7	59.6	
1/4			3.8	59.5	
℄			3.2	60.1	61.1
1/4			3.6	59.7	
C			3.1	60.2	
WL.			3.0	60.3	61.3

		6329			
		200'N.			
WL.			+0.2	63.5	64.8
C			00	63.3	
1/4			0.3	63.0	
℄			0.0	63.3	64.3
1/4			0.5	62.8	
C			0.6	62.7	
EL.			1.0	62.3	63.3
T.P.			0.39	62.90	
	12.57	75.47			
		250'N.			
EL.			9.9	65.6	66.6
C			10.1	65.4	
1/4			10.0	65.5	
℄			9.2	66.3	67.3
1/4			9.5	66.0	
C			9.5	66.0	
WL.			9.2	66.3	67.3

		75.47								
		S.L. Delta St.								
WL			5.6	69.9	70.9					
C			5.7	69.8						
1/4			6.0	69.5						
℄			5.5	70.0	71.0					
1/4			5.9	69.6						
C			5.9	69.6						
EL.			5.9	69.6	70C					
T.P.			1.73	73.74						
	12.28	86.02								
		N.L. Delta St.								
EL.			4.5	81.5	82.5					
C			4.1	81.9						
+5			4.3	81.7						
+6			5.3	80.7						
1/4			5.0	81.0						
℄			4.5	81.5	82.5					
1/4			5.0	81.0						
+5			4.9	81.1						
C			4.2	81.8						
			4.5	81.5						
WL			5.0	81.0	82.0					

			86.02							
T.P.				1.39	84.63					
		6.68	91.31							
			50'N.							
WL				4.6	86.7	87.7				
C				4.5	86.8					
+5				4.4	86.9					
+6				5.1	86.2					
1/4				4.8	86.5					
℄				4.0	87.3	88.3				
1/4				3.9	87.4					
+7				4.4	86.9					
C				3.8	87.5					
+8				3.7	87.6					
EL.				3.5	87.8	88.8				
			75'N.							
EL.				1.5	89.8	90.8				
C				1.9	89.4					
+2				2.0	89.3					
+3				2.5	88.8					
1/4				2.0	89.3					
℄				2.0	89.3	90.3				
1/4				3.1	88.2					
+2				3.2	88.1					
+3				2.4	88.9					
C				2.7	88.6					
WL				3.0	88.3	89.3				

91.31

100' N.

WL	3.2	88.1	89.1	
C	2.8	88.5		
+7	2.5	88.8		
+8	3.0	88.3		
1/4	2.5	88.8		
℄	1.7	89.6	90.6	
1/4	2.0	89.3		
+5	2.2	89.1		
+7	1.7	89.6		
C	1.6	89.7		
EL	1.5	89.8	90.8	

150' N.

EL	5.9	85.4	86.4	
C	6.0	85.3		
+5	6.0	85.3		
+6	6.8	84.5		
1/4	6.3	85.0		
℄	5.4	85.9	86.9	
1/4	6.2	85.1		
+3	6.5	84.8		
+4	5.6	85.7		
C	5.7	85.6		
WL	5.5	85.8	86.8	

91.31

200' N.

WL	10.2	81.1	82.1	
C	10.4	80.9		
+6	10.2	81.1		
+7	10.8	80.5		
1/4	10.2	81.1		
℄	9.8	81.5	82.8	
1/4	10.6	80.8		
+3	11.0	80.3		
+4	10.6	80.8		
C	11.0	80.3		
EL	11.3	80.0	81.0	

250' N.

EL	16.0	74.3	75.3	
C	15.8	75.5		
+7	15.5	75.8		
+8	15.9	75.4		
1/4	15.4	75.9		
℄	14.7	76.6	77.6	
1/4	14.5	76.8		
C	14.3	77.0		
WL	13.8	77.5	78.5	

		91.31			
T.P.			12.23	79.08	
	3.11	82.19			
		S.L. Gamma St.			
WL.			8.3	73.9	~~74.1~~ 74.9
C			8.4	73.8	
1/4			8.6	73.6	
℄			8.0	74.2	
1/4			8.3	73.9	74.9
C			8.2	74.0	
EL.			8.0	74.2	~~74.3~~ 73
			O.K. for check.		

CROSS SECTIONS
40TH ST.
60' Wide, 10' Walks + 1/4's.

April-16, 1913
West
Evans
Moore

See note p. 2

Hub. NE Cor. 40 + Eta. 34.04

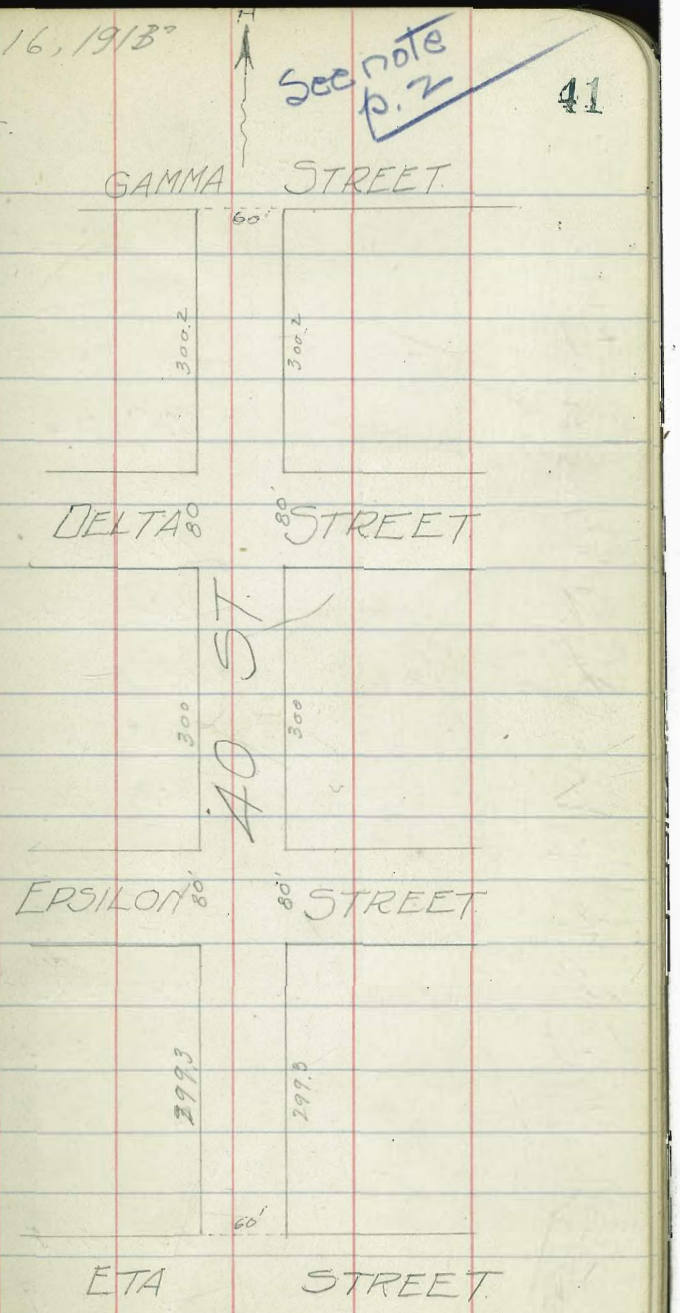
12.48 46.52

N.L. Eta Street

E.L	12.5	34.0
C	13.0	33.5
1/4	14.0	32.5
℄	14.0	32.5
1/4	14.2	32.3
C	13.9	32.6
W.L.	12.9	33.6

25' N.

W.L.	13.0	33.5
C	11.9	34.6
1/4	11.4	35.1
℄	11.1	35.4
1/4	10.7	35.8
C	10.1	36.4
E.L	10.3	36.2



46.52

50' N.

EL.	9.5	37.0
C	9.5	37.0
1/4	10.0	36.5
℄	9.8	36.7
1/4	10.2	36.3
C	11.1	35.4
WL.	11.6	34.9

75' N.

WL.	10.5	36.0
C	10.0	36.5
1/4	9.1	37.4
℄	8.9	37.6
1/4	8.6	37.9
C	7.9	38.6
EL.	7.6	38.9

100' N.

EL.	5.7	40.8
C	5.6	40.9
1/4	6.3	40.2

46.52

℄	6.9	39.6
1/4	7.8	38.7
C	9.1	37.4
WL.	9.4	37.1

125' N.

WL.	7.3	39.2
C	7.0	39.5
1/4	6.2	40.3
℄	5.0	41.5
1/4	3.8	42.7
C	3.0	44.5
EL.	3.3	43.2

150' N.

EL.	3.4	43.1
C	3.1	43.4
1/4	3.3	43.2
℄	3.8	42.7
1/4	4.4	42.1
C	4.8	41.7
WL.	4.6	41.8

		46.52		
		175' N.		
WL.			3.9	42.6
C			3.0	43.5
1/4			2.4	44.1
℄			2.1	44.4
1/4			2.0	44.5
C			1.5	46.0
EL.			1.1	45.4
T.P.			2.45	44.07
	13.01	57.08		
		200' N.		
EL.			9.0	48.1
C			9.3	47.8
1/4			10.1	47.0
℄			10.2	46.9
1/4			10.6	46.5
C			11.6	45.5
WL.			12.2	44.9

		57.08		
		250' N.		
WL			7.3	49.8
C			7.3	49.8
1/4			7.1	50.0
℄			6.8	50.3
1/4			6.4	50.7
C			6.2	50.9
EL			6.5	50.6
		S.L. Epsilon St.		
EL.			4.4	52.7
C			5.0	52.1
1/4			5.3	51.8
℄			5.2	51.9
1/4			5.0	52.1
C			5.3	51.8
WL			5.5	51.6
Mon 40+Epsilon			4.12	52.96

53.03
52.96
.07

5708

N.L Epsilon

WL		3.4	53.7
C		3.6	53.5
1/4		3.5	53.6
℄		3.2	53.9
1/4		2.8	54.3
C		1.9	55.2
E.L		0.9	56.2
	50'N.		
E.L		0.2	56.9
C		0.3	56.8
1/4		1.2	55.9
℄		1.2	55.9
1/4		1.7	55.4
C		2.0	55.1
WL		1.9	55.2
	100'N.		
WL		2.0	55.1
C		2.0	55.1
1/4		1.7	55.4

5708

℄		1.4	55.7
1/4		1.4	55.7
C		0.8	56.3
EL.		0.1	57.0
T.P.		0.44	56.64
	10.89	67.53	
		150'N.	
EL		9.2	58.3
C		9.4	58.1
1/4		10.3	57.2
℄		10.6	56.9
1/4		11.0	56.5
C		11.3	56.2
WL.		11.6	55.9
		200'N	
WL		9.4	58.1
C.		9.7	57.8
1/4 ℄		9.6 9.1	57.9 58.4
1/4		9.3	58.2
C		8.8	58.7
EL.		8.7	58.8

		67.53		
		250' N.		
EL.			7.0	60.5
C			7.3	60.2
1/4			7.2	60.3
℄			7.5	60.0
1/4			7.9	59.6
C			7.9	59.6
WL.			7.7	59.8
		S.L. Delta St.		
WL.			6.1	61.4
C			6.5	61.0
1/4			6.4	61.1
℄			6.3	61.2
1/4			6.1	61.4
C			5.7	61.8
E.L.			5.7	61.8
		N.L. Delta.		
EL			1.0	66.5
C			1.2	66.3
1/4			2.6	64.9

		67.53		
℄			3.0	64.5
1/4			3.5	64.0
C			3.8	63.7
WL.			3.7	63.8
T.P.			0.88	66.65
	12.57	79.22		
		50' N.		
WL.			12.9	66.3
C			12.3	66.9
1/4			11.7	67.5
℄			10.9	68.3
1/4			10.9	68.3
C			10.6	68.6
EL.			10.4	68.8
		100' N.		
EL			4.8	74.4
C			5.5	73.7
1/4			6.0	73.2
℄			6.2	73.0
1/4			6.6	72.6
C			7.4	71.8
WL.			8.1	71.1

		79.22		
T.P.			1.59	77.63
	12.85	90.48		
		150'N.		
WL			11.7	78.8
C			11.2	79.3
¼			10.4	80.1
℄			9.7	80.8
¼			9.2	81.3
C			8.5	82.0
EL			7.6	82.9
T.P.			0.19	90.29
	9.35	99.64		
		200'N.		
EL			7.0	92.6
C			7.0	92.6
¼			7.4	92.2
℄			7.8	91.8
¼			8.3	91.3
C			9.1	90.5
WL			9.6	90.0

		99.64		
		225'N.		
WL			5.9	93.7
C			5.7	93.9
¼			5.4	94.2
℄			5.1	94.5
¼			5.0	94.6
C			4.8	94.8
EL			4.6	95.0
		250'N.		
EL			4.0	95.6
C			4.3	95.3
¼			4.5	95.1
℄			4.7	94.9
¼			4.9	94.7
C			5.0	94.6
WL			5.1	94.5

9964

275' N.

WL		5.5	94.1	
C		5.3	94.3	
1/4		5.2	94.4	
℄		5.1	94.5	
1/4		5.0	94.6	
C		4.9	94.7	
EL		5.1	94.5	

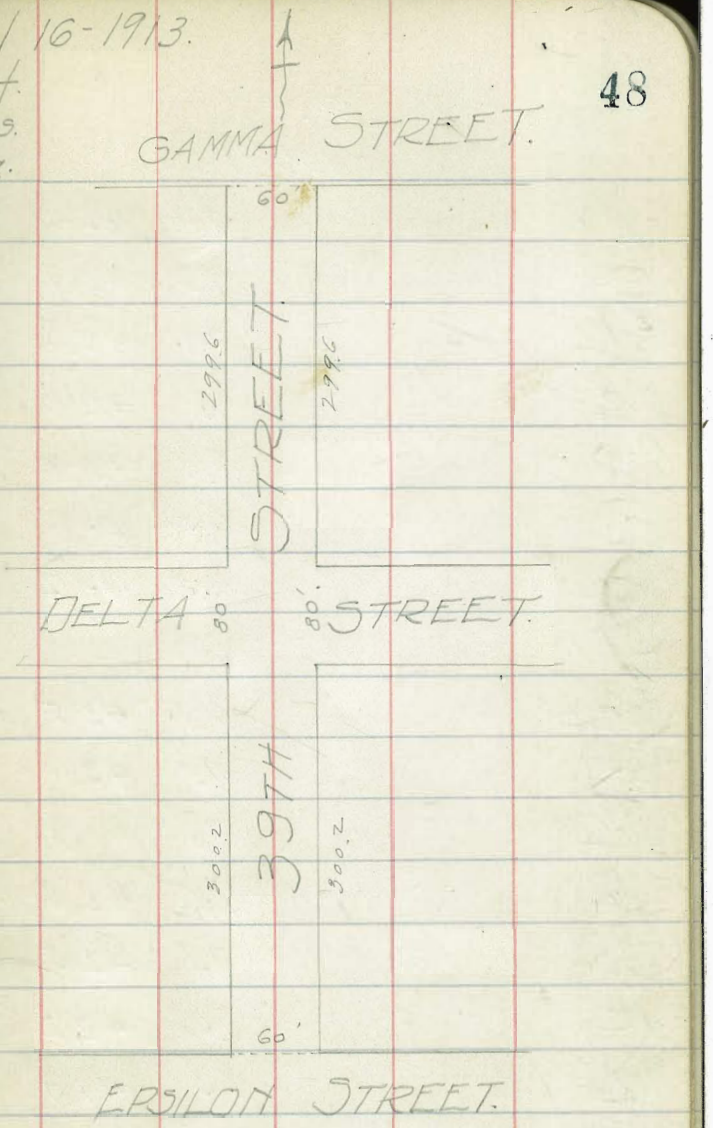
S.L. Gamma St.

EL		7.1	92.5	92.7
C		7.0	92.6	
1/4		7.1	92.5	
℄		7.2	92.4	
1/4		7.4	92.2	
C		7.8	91.8	
WL		8.2	91.4	91.5 91.4 .1 Checks OK.

CROSS-SECTIONS
39TH. STREET.
N.L. Epsilon to S.L. Gamma.
60' Wide. 10' Walks + 1/4's.

April 16-1913.
West.
Evans.
Moore.

S.W Cor. 39 + Delta.			44.52
	5.71	50.23	
	N.L. Epsilon.		
WL		8.5	41.7
C		8.2	42.0
1/4		8.0	42.2
E		7.9	42.3
1/4		7.6	42.6
C		7.4	42.8
EL.		7.0	43.2
	50' N.		
EL		6.4	43.8
C		6.6	43.6
1/4		6.8	43.4
E		7.0	43.2
1/4		7.2	43.0
C		7.5	42.7
WL.		7.8	42.4



5023

100' N.

WL	7.4	42.8	
C	7.3	42.9	
1/4	7.1	43.1	
℄	6.6	43.6	
1/4	6.4	43.8	
C	6.3	43.9	
EL	6.0	44.2	

150' N.

EL	6.7	43.5	
C	7.1	43.1	
1/4	7.3	42.9	
℄	7.6	42.6	
1/4	7.7	42.5	
C	8.0	42.2	
WL	8.3	41.9	

175' N.

WL	7.4	42.8	
C	6.7	43.5	
1/4	5.8	44.4	

5023

℄	5.3	44.9	
1/4	5.5	44.7	
C	6.0	44.2	
EL	6.4	43.8	

200' E.

EL	5.6	44.6	
C	5.6	44.6	
1/4	5.6	44.6	
℄	5.8	44.4	
1/4	6.2	44.0	
C	6.8	43.4	
WL	7.4	42.8	

250' E

WL	7.3	42.9	
C	7.1	43.1	
1/4	6.8	43.4	
℄	6.1	44.1	
1/4	5.4	44.8	
C	4.9	45.3	
EL	4.8	45.4	

5023

S.L. Delta St.

EL.	4.3	45.9
C	4.6	46.6
1/4	5.0	45.2
℄	5.4	44.8
1/4	6.0	44.2
C	6.4	43.8
W.L.	6.5	43.7

N.L. Delta.

WL	4.5	45.7
C	4.8	45.4
1/4	4.2	46.0
℄	3.8	46.4
1/4	3.7	46.3
C	4.0	46.2
EL.	3.9	46.3

50' N.

EL.	3.4	46.8
C	3.4	46.8
1/4	3.4	46.8

5023

℄	3.3	46.9
1/4	3.8	46.4
C	3.7	46.5
WL	3.6	46.6

100' N.

WL	2.8	47.4
C	3.0	47.2
1/4	3.0	47.2
℄	2.6	47.6
1/4	2.6	47.6
C	2.7	47.5
EL.	2.8	47.4

150' N.

EL.	1.7	48.5
C	2.0	48.2
1/4	2.1	48.1
℄	2.3	47.9
1/4	2.4	47.8
C	2.4	47.8
WL.	2.5	47.7

		50.23			
		200' N.			
WL			1.8	48.4	
C			1.6	48.6	
1/4			1.7	48.5	
℄			1.6	48.6	
1/4			1.2	49.0	
C			1.2	49.0	
EL			1.1	49.1	
T.P.			1.58	48.65	
	4.55	53.20			
		250' N.			
EL			3.8	49.4	
C			3.8	49.4	
1/4			4.1	49.1	
℄			4.5	48.7	
1/4			4.4	48.8	
C			3.9	49.3	
WL			4.2	49.0	

		53.20			
		S.L. Gamma St.			
EL			3.4	49.8	49.1
C			3.6	49.6	
1/4			3.7	49.5	
℄			3.7	49.5	
1/4			3.2	50.0	
C			3.2	50.0	
WL			3.1	50.1	50.0
					O.K.
Notch tel post				24.78	
	2.88	27.66			
T.P.			9.60	18.06	
	5.12	23.18			
T.P.			3.59	19.59	
	1.98	21.57			
B.M.			7.98	13.59	14.60 (13.59 / 1.01)

Note. All elevations to this page are 1 foot low as bench carried forward from book. 880 is 1 ft low. P.S.W.

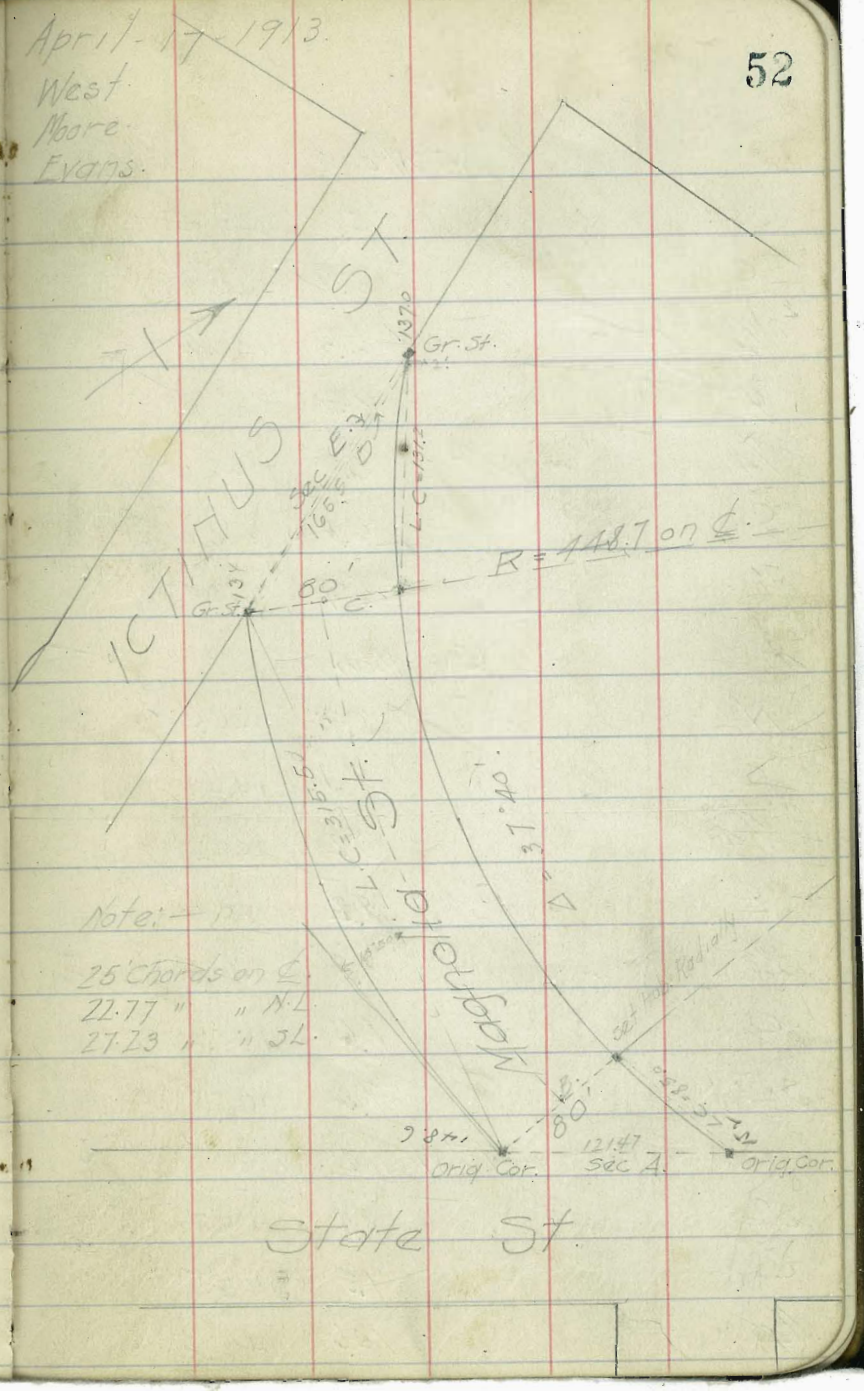
CROSS SECTIONS

MAGNOLIA STREET.

W L State to E L Ictinus.
80 Wide. 14' Walks. 13' & 5'.

B.M. NE Cor State + Ictinus.				133.26
	12.63	145.89		
F.P.			145	144.44
	8.39	152.83		
		Sec A.		
SL.			4.6	148.2
C			3.9	148.9
1/4			3.7	149.1
℄			3.4	149.4
1/4			2.9	149.9
C			1.9	150.9
NL			2.1	150.7
		Sec B		
NL			5.9	146.9
C			5.6	147.2
1/4			5.2	147.6
℄			5.1	147.7
1/4			4.8	148.0
C			4.4	148.4
SL			4.6	148.2

April 17 1913.
West
Moore
Evans.



1528.3

25' Won ℄

SL	5.6	147.2	
C	5.9	146.9	
¼	6.0	146.8	
℄	6.7	146.1	
¼	6.9	146.0	
C	6.8	146.0	
NL	6.7	146.1	

50' Won ℄

NL	8.4	144.4	
C	8.7	144.1	
¼	8.2	144.6	
℄	8.2	144.6	
¼	8.5	144.3	
C	7.6	145.2	
SL	7.3	145.5	

75' Won ℄

SL	8.6	144.2	
C	9.3	143.5	
¼	10.6	142.2	

1528.3

℄	9.9	142.9	
¼	9.9	142.9	
C	10.2	142.6	
NL	9.8	143.0	

100' Won ℄

NL	9.0	143.8	
C	9.6	143.2	
¼	10.2	142.6	
℄	10.9	141.9	
¼	11.6	141.2	
C	11.7	141.1	
SL	11.3	142.5	

125' Won ℄

SL	11.4	141.4	
C	13.2	139.6	
¼	11.7	141.1	
℄	10.0	142.8	
¼	9.5	143.3	
C	8.7	144.1	
NL	7.6	145.2	

		152.83			
		150' Won ¢			
NL			7.3	145.5	
C			8.1	144.7	
¼			8.9	143.9	
¢			9.7	143.1	
¼			10.7	142.1	
C			11.6	141.2	
SL			12.1	140.7	
		175' Won ¢			
SL			12.5	140.3	
C			11.8	141.0	
¼			10.6	142.2	
¢			9.6	143.2	
¼			8.7	144.1	
C			8.2	144.6	
NL			7.3	145.5	
		200 Won ¢			
NL			7.1	145.7	
C			8.2	144.6	
¼			9.0	143.8	

		152.83			
¢			9.6	143.2	
¼			10.6	142.2	
C			11.8	141.0	
SL			13.2	139.6	
T.P.			9.25	143.58	
	1.59	145.17			
		225' Won ¢			
SL			6.5	138.7	
C			5.0	140.2	
¼			3.8	141.4	
¢			2.9	142.3	
¼			1.7	143.5	
C			1.2	144.0	
NL			+0.1	145.3	
		250 Won ¢			
NL			1.0	144.2	
C			2.0	143.2	
¼			2.2	143.0	
¢			3.5	141.7	
¼			4.7	140.5	

	1451.7			
C			6.5	138.7
SL.			7.5	137.7
	275' Wong &			
SL			8.0	137.2
C			7.2	138.0
1/4			5.8	139.4
℄			4.3	140.9
1/4			3.3	141.9
C			2.8	142.4
NL			1.9	143.3
	Sec C. 1925' Won ℄.			
NL			2.7	142.5'
C			3.3	141.9
+2			3.6	141.6
+3			4.9	140.3
1/4			5.1	140.1
℄			5.4	139.8
1/4			5.5	139.7
C			7.6	137.6
+13			8.7	136.5'
SL.			10.9	134.3

	1451.7			
	Sec D. Top bank			
SL.			10.9	134.3
+2			8.7	136.5'
C			8.2	137.0
+1.0			7.6	137.6
1/4			9.2	136.0
℄			10.0	135.2
+7			8.5	136.7
1/4			8.9	136.3
C			9.1	136.1
+13			9.4	135.8
NL.			11.8	133.4
	Sec E. Graded for Ectimes.			
NL			11.8	133.4
C			11.8	133.4
1/4			11.4	133.8
℄			10.9	135.2
1/4			10.0	135.2
C			11.2	134.0
SL.			10.9	134.3
T.P.			11.23	133.94
	560	139.54		
B.M. Stake + Ectimes		6.28	133.26	133.26 OK.

CROSS SECTION
19 STREET.

80' Wide from N. St to Intersection with Kearney Street produced, 60' wide at N.E. line of Sigsbee.

14' Walks, 13' 1/4's on 80' St
10' " 10' " " 60' St.

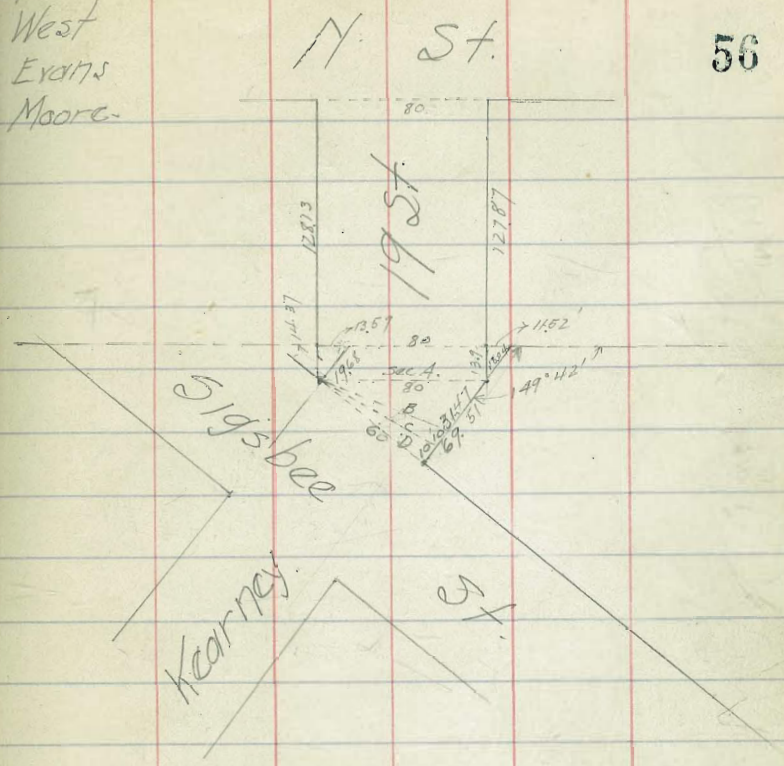
B.M. NE. Cor. 19th N. 32.99

.103 34.02

S.L. N. St.

EL.	3.7	30.3
C	3.8	30.2
1/4	4.1	29.9
℄	4.3	29.7
1/4	4.7	29.3
C	5.2	28.8
+12	5.7	28.3
WL.	5.0	29.6

April 26- 1913
West
Evans
Moore-



25'S.

WL		4.8	29.2
Emb.		6.4	27.6
¼		5.8	28.2
℄		5.7	28.3
¼		5.3	28.7
C		4.8	29.2
EL		4.0	30.0

42'S.

-20		6.7	27.3
EL.		5.6	28.4
C		6.4	27.6
¼		6.9	27.1
℄	+5	8.4	25.6
		7.8	26.2
¼		8.0	26.0
C		8.8	25.2
+4		8.1	25.9
+5		6.9	27.1
WL.		6.4	27.6
+20		6.8	27.2

50'S

-20		9.9	24.1
WL		8.9	25.1
C		9.8	24.2
¼		9.3	24.7
℄		9.0	25.0
+8		9.1	24.9
¼		7.9	26.1
C		7.1	26.9
EL		7.0	27.0
+20		9.1	24.9

65'S.

-20		13.7	20.3
EL.		13.4	20.6
+5		12.2	21.8
C		13.0	21.0
+1		12.7	21.3
+2		11.6	22.4
¼		12.3	21.7
℄		10.8	23.2
¼		11.3	22.7
C		11.4	22.6

Upas - India to Colombo

		34.02		
+12			11.2	22.8
WL			11.7	22.3
+20			11.7	22.3
		75'S.		
−20			12.3	21.7
T.P.			12.55	21.47
	6.86	28.33		
WL			6.9	21.4
C			6.8	21.5
¼			7.4	20.9
+6			6.7	21.6
℄			7.1	21.2
+2			7.8	20.5
¼			7.9	20.4
C			7.3	21.0
EL			8.1	20.2
+10	Bottom		9.4	18.9
+20			8.1	20.2

		28.33		
		83'S.		
−20			8.3	20.0
EL	bottom ditch		9.4	18.9
+5			8.6	19.7
C			8.2	20.1
¼			8.3	20.0
℄			8.6	19.7
¼			8.5	19.8
C			7.9	20.4
WL			7.7	20.6
+10			7.5	20.8
		100'S.		
+10			9.0	19.3
WL			8.7	19.6
C			9.4	18.9
¼	bottom ditch		9.5	18.8
℄	"	"	9.5	18.8
¼	"	"	9.4	18.9
C	"	"	9.3	19.0
EL			8.4	19.9
+20			8.2	20.1

2833

128.13 S. on WL, 127.87 S on EL.
= Pueblo Lot line.

-20		6.6	21.7
EL		7.4	20.9
C		8.2	20.1
1/4		9.0	19.3
℄		9.1	19.2
1/4		9.7	18.6
C		9.8	18.5
WL		10.3	18.0
+1		8.5	19.8
+10		8.2	20.1

Sec A = 1437.5 of PL on W
13.9 " " " " E.

WL		4.9	23.4
+3		5.5	22.8
+4	opening Culvert.	10.9	17.4
C		10.3	18.0
1/4		9.7	18.6
+4		9.4	18.9

2833

+5		8.6	19.7
℄		8.8	19.5
1/4		9.0	19.3
C		8.9	19.4
+13		7.7	20.6
EL		5.9	22.4

Sec B = 3147.5 on EL.

EL		6.2	22.1
+1		8.5	19.8
C		8.7	19.6
1/4		9.0	19.3
℄		9.1	19.2
1/4		8.2	20.1
C		8.0	20.3
+5		6.6	21.7
WL		4.9	23.4

28.33

Sec C = 41.375 of A on EL.

WL.	4.9	23.4	
+5	6.0	22.3	
C	7.5	20.8	
1/4	6.7	21.6	
E	6.9	21.4	
1/4	7.6	20.7	
C	8.3	20.0	
+13	8.1	20.3	
EL.	6.2	22.1	

Sec D = 51.375 of A on EL =
N.L. Sigsbee.

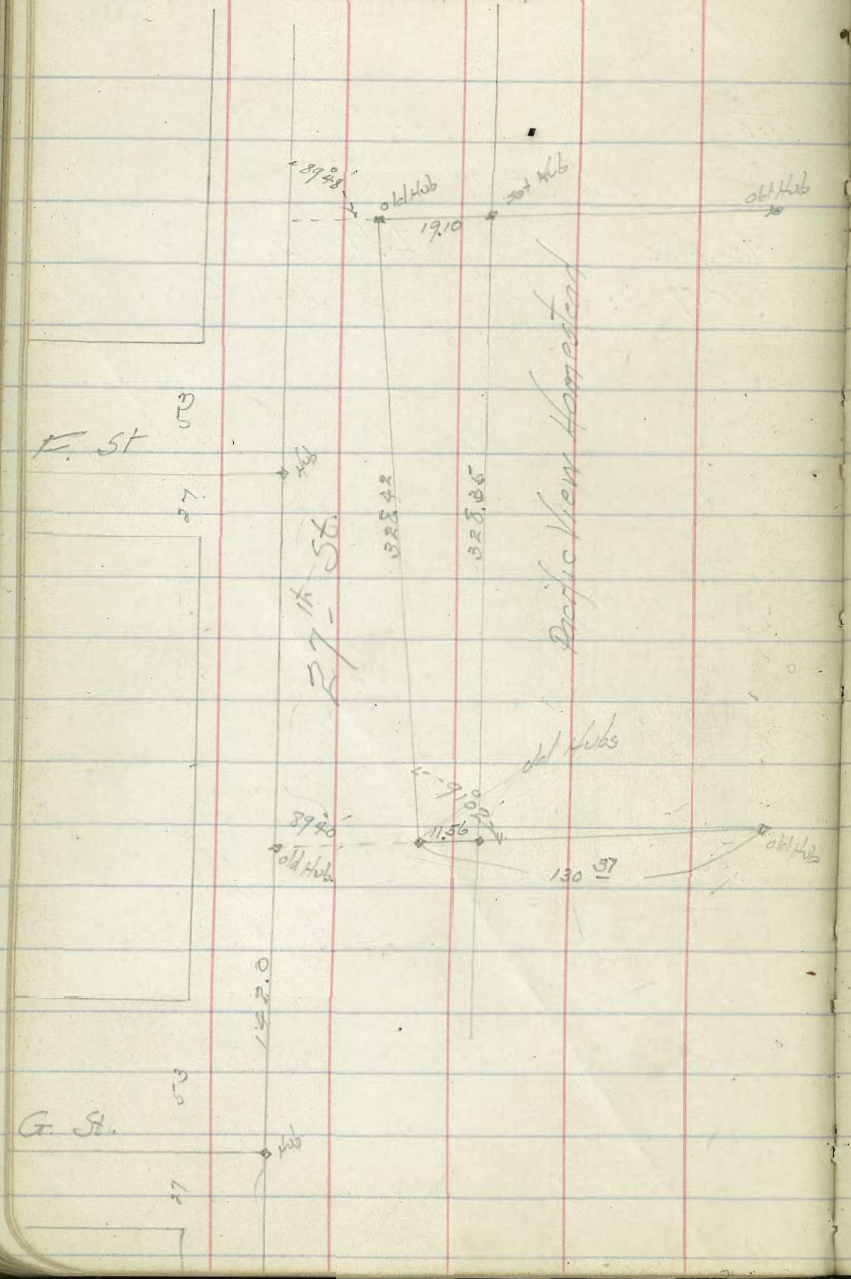
EL.	4.3	24.0	
C	4.8	23.5	
1/4	5.1	23.3	
E	4.8	23.5	
1/4	5.3	23.0	
C	5.5	22.8	
WL.	4.9	23.4	

28.33

T.P.			3.98	24.35	
	11.13	35.48			
B.M. Spike			2.49	32.99	32.99
NE Cor 19+N.					O.K.

6/4/13 Haleh Mowry Hall

Survey for opening 27th St between F. - G.



6/19/63 along xsec of Depas St (50') (SL = S2 of 80' St.
Tufts India to E 2 Columbia St

	5.61	86.66		81.05	mean SL Tufts India
	12.62	96.52	2.76	83.90	

E 2 of India St

n			12,2
			12.6
			12.0
b			11.4
			12.4
			12.6
S			12.2

2 E of India

S			3.0
			3.7
			5.0
b			8.0
			11.0
			12.2
n			11.6

96.52

25' E of India St

n			7.2
			8.0
			7.2
			(7.2 / 3.2)
			2.0
bk			0.0
S			—

50' E of India

n			4.2
			4.7
			4.3
b			(3.7 / 0.7)
TP	12.23	108.75	0.0 — 96.52

25' E of India

S 2			10.1

50' E of India

S			7.2
bk			9.5
S 1/4			11.6

81.05
+ 2.76
86.66
+ 2.76
83.90
+ 12.62
96.52
+ 12.23
108.75

10875

	75'	E of	India
S			2.3
			7.0
			9.7
b			(11.0 / 13.2)
			13.2
			13.2
n			13.2
	100'	E of	India
n			9.2
			10.0
			10.0
b			(9.7 / 6.2)
			4.7
			3.0
S			1.1

10875

	125'	E of	India	
h			5.2	10875 / 132 / 10743 / 1285 / 12028
			5.4	
			4.8	
b			(4.4 / 0.7)	
TP	12.85	12037	12.3	107.52
4			10.8	
			9.5	
S			8.7	
	150	E of	India st	
S			4.6	
			5.5	
			7.1	
b			(8.2 / 1.25)	
			12.0	
			12.7	
n			13.0	

Offsets

		12037 / 1204		
	175	E of	Indiana	
n			9.5	
			9.3	
			8.8	
b			(9.0 / 4.0)	
			3.0	
			1.8	
S			1.0	
	200	E = W of	Columbia	
n			6.4	114.0
b			5.8	14.6
4			6.7	14.2
b			5.3	15.1
	W	bb of	Columbia	
n			5.9	14.5
b			5.5	14.9
4			4.8	15.4
b			4.0	14.4

		12037 / 1204			Nfas
	W	¼ of	Columbia		
n			5.8	114.6	120.37 6.05 114.29 12.42 126.71 4.30 122.41 11.40 132.61
b			5.0	15.4	
4			3.3	17.1	
b			2.0	18.4	
	Center	of	Columbia		
n			8.0	12.4	
b			5.2	15.2	
4			0.0	20.2	
	E	¼ of	Columbia		
n			7.2	13.2	
bb			2.2	18.2	
	E bb	of	Columbia		
bb			4.0	16.4	
	E	¼ of	Columbia		
n			2.0	18.4	
TP	1223	1765	608	114.9	Mean Count Columbia
	1140	1356.2	430	122.2	
			608		

13362

1334

	200 E = WL of Columbia		
S		10.7	122.9
bl		12.2	21.4
y		13.8	19.8
+5		14.6	19.0
	W bl of Columbia		
S		8.5	25.1
bl		10.2	23.4
y		11.8	21.8
+5		13.7	20.4
	W ½ of Columbia		
S		6.7	24.9
bl		8.5	25.1
y		10.0	23.6
+5'		11.4	22.2
	Cente of Columbia		
S		4.6	29.0
bl		6.6	27.0
y		8.2	25.4
+5'		9.6	24.0
b		12.0	21.6

13362

1334

Wpas

	E ½ of Columbia		
S		2.3	31.3
		4.0	29.6
		6.3	27.3
+5		8.0	25.6
b		10.4	23.2
		11.0	22.6
	E bb of Columbia		
S		1.3	32.3
bl		2.6	31.0
y		4.6	29.0
b		7.0	26.6
y		9.3	24.3
Fill		12.3	21.3

		13362			
		133.4			
	E	Sin	f Columbia		
S			0,0	33.4	
bl			1,4	32.2	
y			3,6	30,0	
b			5,7	27.9	
y			8,0	25.4	
bk			11.3	22.3	on SE ft
TP	0,98	13460 / 134,4	0,0	13362	
	25'	E f	Columbia		
R			13,6	121.0	
bl			9,4	25.7	
y			6,0	28.4	
b			3,8	30.8	
S/y			0,8	33.8	
	50'	E f	Columbia		
R			12,7	21.9	
bl			8,4	24.2	
y			4,7	29.9	
b			2,3	32.3	
TP	10 31'	14393	98	13362	

		14393			Nfas
		143.9			
	25'	E f	Columbia		13362 / 134,45 / 13362 / 10 31 / 14393
S			6,6	137.3	
bl			8,5	35.4	
	50'	E f	Columbia		
S			4,3	39.4	
bl			7,2	34.7	
y			9,3	34.4	
	75'	E f	Columbia		
S			1,0	42.9	
			2,8	41.1	
			5,4	38.5	
b			7,2	35.7	
			9,4	34.5	
			12,0	31.9	
R			15,3	28.4	

		143.93				
		143.9				
	100	E f	Columbia			
h			8.V	135.7	143.93	
			5.V	38.7	1.30	
					142.63	
			3.V	40.7	1.246	
					155.19	
					1.70	
			1.0	42.9	153.49	
b					6.65	
					160.14	
TP	12.46	155.19	1.0	142.73		
		155.2				
4			10.3	44.9		
b			8.1	47.1		
S			6.V	49.0		
	125	E f	Columbia			
S			1.4	53.8		
			3.0	52.2		
			4.8	50.4		
b			7.5	47.7		
			9.5	45.7		
			11.0	44.2		
h			15.3	39.9		

		155.19				Nfus
		155.2				
	150	E f	Columbia			
h			14.1	143.1		
			8.4	46.8		
			6.V	49.0		
b			5.3	49.9		
			3.5	51.7		
			1.8	53.4		
S			0.3	155.5		
TP	6.65	160.14	17.0	155.49		
		140.1				
	175	E f	Columbia			
S			2.1	158.0		
			0.5	54.4		
			5.1	50.0		
b			7.8	52.3		
			9.9	50.2		
			11.6	48.5		
h			13.3	46.8		

160 14

140.1

200 E = W 2 of State St

h		9.8	150.2
		6.1	√4.0
		6.5	√3.4
b		4.4	√√.7
		2.7	√7.3
		1.2	√8.9
S		0.0	60.1
		11.3	159.01

No tens State St

6 / Gough Xsec of McCall St (50)

	1308	2758		1450	min NW Kellogg to San Antonio
	1284	4008	034	2724	1450
	1301	4801	508	3500	1308
	Block Bet San Antonio.				2758
	& Rosecrans two				74
	not changed Book 454 P 20				2724
					1284
					4008
					508
					3500
					1301
					4801
					1230
					6039

E & of Rosecrans St (50)

S	101	37.9
	105	37.5
	9.6	38.4
b	9.3	38.7
	9.7	38.3
Gutter	101	37.9
	9.6	38.4
n	9.0	39.0

Elev. flow line of 16" culvert across Rosecrans on E. gutter line of McCall St. 35.0 at w. end and 31.9 at E. end.

4801

McCall

50' W of Rosecrans

n	5.3	41.7
	5.4	41.6
Gutter	6.3	41.7
	6.1	41.9
b	5.8	41.9
	5.8	41.9
	6.0	41.0
S	5.5	41.5

100' W of Rosecrans

S	2.6	45.4
	2.6	45.4
	2.3	45.7
b	2.3	45.7
	2.5	45.5
Gutter	2.7	45.3
b	2.2	45.8
n	1.9	46.1

7P 1230 6039 0.0 4801

60.34

150 20 y Rudecans

n		9.5	50.8
		10.0	50.3
	Suttle	10,8	49.5
		10,6	49.7
b		10,5	49.8
		10,4	49.9
		10,8	49.5
S		10,8	49.5

201 W y Rudecans

S		6.0	54.3
		6,5	53.8
		5,8	54.5
		6,3	54.0
b		6,3	54.0
		6,6	53.7
		5,9	54.4
n		5.7	54.6

60.34

250 W y Rudecans

n		1.0	59.3
		1.1	59.2
	Suttle	2.0	58.3
		1,9	58.4
b		1,8	58.5
		1,6	58.7
		1,8	58.5
S		1.6	58.7

TP 1220 7226 0.5- 60.06

300 W E S y San Elijo

S		9.3	63.0
		9.0	63.3
		9.0	63.3
		8.7	63.6
		9.0	63.3
		9.2	63.1
	Suttle	8.5	63.8
n		8.3	64.0

Mc Ball

60.30
.41-
60.05-
2.20
7.21-

7 2 26

E bb of San Elijo

n	7.3	65.0
	7.3	65.0
Sutter	8.3	64.0
	8.2	64.1
b	8.1	64.2
	8.1	64.2
	8.2	64.1
S	8.4	63.9

E 1/4 of San Elijo

S	7.7	64.6
	7.4	64.9
	7.3	65.0
b	7.2	65.1
	7.5	64.8
Sutter	7.8	64.5
	6.7	65.6
n	6.4	65.9

7 2 26

Center of Elijo

n	6.0	66.3
	6.2	66.1
Sutter	7.0	65.3
	6.8	65.5
b	6.4	65.9
	6.6	65.7
	6.7	65.6
S	6.9	65.4

W 1/4 of Elijo

S	6.4	65.9
	6.0	66.3
	5.9	66.4
b	5.8	66.5
	6.1	66.2
Sutter	6.2	66.1
	5.3	67.0
	5.3	
n	5.7	66.6

McColl

72.6

W bk of Elizo

N			4.4	67.9	
			4.8	67.5	7225
	Sutter		5.6	66.7	20
			5.4	66.9	7205
					1270
					84.75
b			5.0	67.3	
			5.0	67.3	
			5.1	67.2	
S			5.3	67.0	

W. side of San Elizo

S			4.5	67.8	
			4.5	67.8	
			4.1	68.2	
b			4.0	68.3	
			4.4	67.9	
	Sutter		4.6	67.7	
			4.0	68.3	
N			3.3	69.0	
	TP	1270	84.76	0.20	72.06

84.76

S-0 W of San Eliza

N			10.5	74.3	
			10.5	74.3	
	Sutter		12.0	72.8	
			11.7	73.1	
b			11.3	73.5	
			11.6	73.2	
			11.6	73.2	
S			11.5	73.3	

100 W of San Eliza

S			6.5	78.3	
			6.4	78.4	
			6.1	78.7	
b			6.1	78.7	
			6.5	78.3	
			6.7	78.1	
	Sutter		5.7	79.1	
N			5.1	79.7	

Mc Kane

	150	W f	Elev		
N			0,0	84.8	8471
			1,0	83.8	1430
					83.45
			2.2	82.6	1183
Sutter					95.28
			1,8	83.0	
			1,7	83.1	
b					
			1,8	83.0	
			2,1	82.7	
			2,0	82.5	
S					
TP	1183	95-29	1,30	83.46	
	200	W f	Elev		
S			8,5	86.8	
			8,4	86.9	
			7,6	87.7	
			7,5	87.8	
b					
			7,5	87.8	
			7,8	87.5	
Sutter			7,0	88.2	
N			6,0	89.3	

	95.29				Mc Call
	250	W f	Elev		
N			0,0	95.3	95-28
			0,8	94.5	1 35
					93.90
Sutter			1,8	93.5	1.2.88
			1,8	93.5	106.78
b			1,7	93.6	
			1,6	93.7	
			2,2	93.1	
S			2,0	93.3	
TP	1284	10679	1,38	0398	
	300	W=	E L f	San Fernando St	(50)
S			7,6	99.2	
			7,0	99.8	
Sutter			8,0	98.8	
			7,2	99.6	
b			6,5	100.3	
			6,3	100.5	
			6,3	100.5	
N			2,7	106.1	
	290	W f	f Elev		
N			7,0	99.8	

1067.9

E of San Fernando

n		2.8	104.0
	Sutter	(4.0)	107.8
		4.8	107.0
		4.7	107.1
b		5.7	101.6
		5.6	101.7
		6.4	100.4
S	Sutter	(6.7)	100.6
			99.9

E 1/4 of Fernando

S	5.6	101.7
	5.6	101.7
	4.6	107.7
b	4.3	107.5
	4.0	107.8
	3.8	103.0
n	3.0	103.8

1067.9

Mc Ball

Center of Fernando

n	2.3	104.5
	2.8	104.0
	3.0	103.8
b	3.6	103.2
	3.7	103.1
	4.4	107.4
S	4.6	107.2

W 1/4 of Fernando

S	3.5	103.3
	3.5	103.3
	2.6	104.2
b	2.5	104.3
	2.4	104.4
	2.5	104.3
n	2.5	104.3

10679

W bk of Zumando

N	2,0	104.8	
	1,9	104.9	
	1,9	104.9	
b	1,8	105.0	
	2,0	104.8	
	2,6	104.2	
S	2,7	104.1	

W Sepia of San Zumando

S	1,0	105.8	
	1.6	105.2	
	1,0	105.8	
b	0,6	106.2	
	0,8	106.0	
	0,8	106.0	
N	1,0	105.8	
	12,65	119.23	0.12

Bm SW Zumando 106.58

50 W of Zumando

N		6.1	113.2
+3'		7,2	117.1
		7.4	111.9
		7,4	111.9
b		7,4	111.9
		7,4	111.9
+8'		8,0	111.3
		7,5	111.8
S		5.7	113.6

100 W of Zumando

S		1.4	117.9
+1'		2.4	116.9
		2,0	117.3
		1,8	117.5
b		1.4	117.9
		1,2	118.1
bk		1,4	117.9
+5'		0,8	118.5
	TP 1,07	131.10	0,36 118.97
N		9.3	107.7

11937

				119.32
				118.96
				1,07
				131.03

Mc Base

131.0 ✓

150' W of Zamudio

h		4.0	127.0 ✓	131.03	
+4'		6.2	124.8 ✓	13.70	
		6.2	124.8 ✓	144.13	
		6.1	124.9 ✓		
b		6.0	125.0 ✓		
		6.4	124.6 ✓		
		7.0	124.0 ✓		
+9'		7.0	123.9 ✓		
S		6.4	124.6 ✓		
TP	13.10	0.0	131.0 ✓		

144.13 ✓

200' W of Zamudio

S	13.3	130.8 ✓	
+1'	14.1	130.0 ✓	
	13.9	130.9 ✓	
	13.3	130.8 ✓	
b	13.1	131.0 ✓	
	12.5	131.6 ✓	
	12.6	131.5 ✓	
+5'	12.1	132.0 ✓	
n	10.0	132.1 ✓	

144.13 ✓

The Call

250' W of Zamudio

h	1.0	143.1 ✓
	7.2	136.9 ✓
	7.2	136.9 ✓
b	7.6	136.5 ✓
	7.8	136.3 ✓
	8.2	135.9 ✓
49'	8.4	135.7 ✓
S	10.2	133.9 ✓

300' W of Zamudio = E of Gurgunea

S	3.0	141.1 ✓
	1.6	142.5 ✓
	1.0	143.1 ✓
b	0.5	143.6 ✓
	0.0	144.1 ✓
	+0.4	144.5 ✓
n	+0.4	144.5 ✓

X Sec's Vermont
S.L. Lincoln to N.L. Pascoe.
80 Wide, 14 W 13 1/2 S.

SW 40 W plug. rat 289.756

B.M.S.W. Vermont + Lincoln. 292.06

4.55 296.61

S.L. Lincoln

WL			4.2	287.9	292.4
C			3.9	288.2	292.1
1/4			4.5	287.6	292.1
℄			4.0	288.1	292.6
1/4			4.6	287.5	292.0
C			3.1	288.4	292.9
E.L.			3.6	288.5	293.0
		10' S			
-10			9.6		287.0
E.L.			8.3	283.8	288.3
C			6.6	285.5	290.0
1/4			5.0	287.1	291.6
℄			3.9	288.2	292.1
1/4			4.2	287.9	292.4
C			3.8	288.3	292.8
WL			3.9	288.2	292.1

July 26 - 1913
West
Evans
Moore

296.61

25' S.

WL	4.0		292.2
C	3.9		292.1
1/4	3.9		292.1
℄	3.9		292.1
1/4	4.8		291.8
C	5.9		290.1
EL	7.8		288.8
+15	10.0		286.6
	50' S		
= 25 N	11.3		
	8.9		287.7
EL	7.0		289.6
C	5.6		291.0
1/4	5.0		291.6
℄	4.0		292.6
1/4	3.6		293.0
C	3.9		292.1
WL	4.2		292.4

XSec Vermont St

29661
75'S

WL		4.8	291.8
C		4.2	292.4
¼		3.9	292.7
℄		3.9	292.7
¼		4.9	291.7
C		5.6	291.0
EL		6.6	290.0
+25		10.3	286.3
+40		14.6	282.0

100'S

=40		13.0	
-20		8.6	
EL		6.2	290.4
C		5.3	291.3
¼		4.6	292.0
℄		3.8	292.8
¼		4.4	292.2
C		5.0	291.6
WL		5.3	291.3

29661
125'S

WL		5.8	290.8
C		5.0	291.6
¼		4.2	292.4
℄		4.3	292.3
¼		4.1	292.5
C		4.9	291.7
EL		5.7	290.9
+25		8.3	288.3

150'S

-25		7.4	289.2
EL		4.8	291.8
C		4.2	292.4
¼		3.9	292.7
℄		4.9	291.7
+8		3.7	292.9
¼		5.0	
C		5.9	290.7
WL		6.0	290.6

X Sec. Vermont St

		296.61		
		275'S.		
WL		6.5	290.1	
C		6.3	290.3	
1/4		5.7	290.9	
℄		4.9	291.7	
1/4		4.9	291.7	
C		4.7	291.9	
EL.		5.0	291.6	
		200'S.		
EL		5.4	291.2	
C		5.3	291.3	
1/4		5.6	291.0	
℄		5.9	290.7	
1/4		6.6	290.0	
C		7.1	289.5	
WL.		7.2	289.4	

		296.61		
-15		225'S.	8.2	
-5			13.8	
WL			14.2	282.4
C			12.7	283.9
1/4			13.1	283.5
℄			8.3	288.3
1/4			6.8	289.8
C			6.7	289.9
EL			6.6	290.0
-15			6.6	290.0
T.P.			11.86	284.75
	1.42	286.17		
		250'S.		
-15			1.7	284.5
EL.			1.2	285.0
C			3.1	283.1
1/4			4.5	281.7
℄			9.2	277.0
1/4			13.2	273.0
C			16.4	269.8
+10			19.0	267.2
WL.			14.0	272.2
-10			8.8	277.4

Same store.

X Sec Vermont St.

		286.17			
T.P.			12.72	273.45	
	1.69	275.14			
		275'S.			
+15			3.9	282.3	271.2
WL			12.6	273.6	262.5
C			17.0	269.2	258.1
1/4			14.9	274.3	260.2
℄			8.3	277.9	266.8
1/4			5.3	280.9	269.8
C			4.3	281.9	270.8
EL.			1.2	284.0	273.9
+30			0.2	286.0	274.9
T.P.			12.38	262.76	
	3.91	266.67			
		30'S = NL Pascoe		NL Pascoe	
E 30 L.			3.4 C.1	263.3 260.6	
C			7.8	258.9	
1/4			9.3	257.4	
℄			10.2	256.4	

July 26-1913
West

~~286.17~~ 266.67

1/4		15.2	251.5
C +10		17.7	249.0
		15.6	251.1
WL		7.1	259.6
+10		1.5	265.2
— Same Slope up			
T.P.		0.82	265.85
	12.45 278.30		
T.P.		1.16	277.14
	11.98 289.12		
T.P.		0.95	288.17
	9.14 297.31		
BM SW Lincoln & Vermont		5.26	292.05 292.06 292.05

Checks OK

West

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	6 5.05	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

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.