

006

400
LEVEL

F.B. 290

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

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

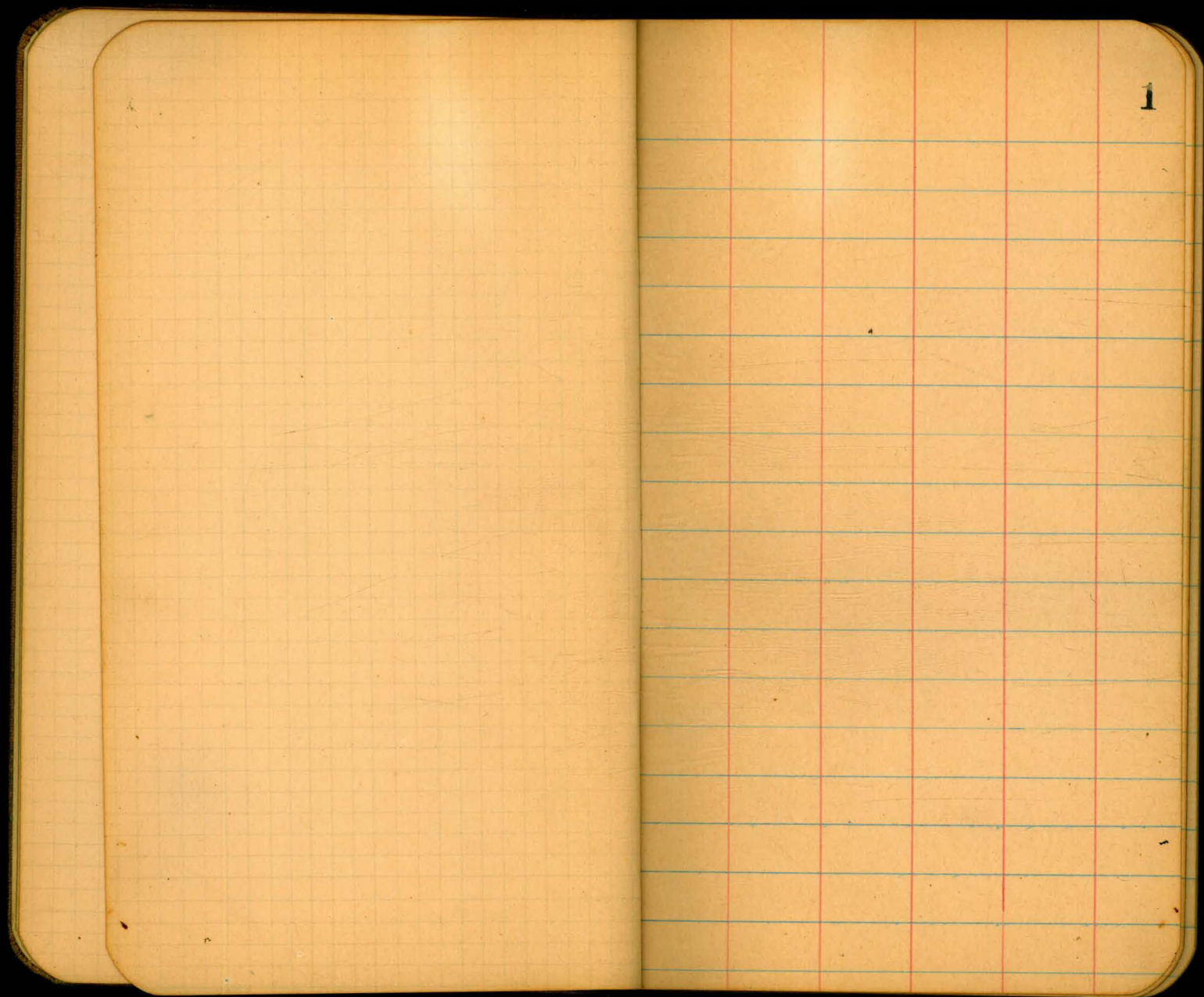
290

TABLE FOR RUNNING ON SLOPES.

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

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

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1

Cross-Sections for Contours on
2^d St. bet Brook's and Pennsylvania

POSTED

191

267.14

265.23 B.M.

SE 2^d Brook's (Spd)

20 No Brook's

2

20
26
26 } Darn
Flumes
Emery

N.L. Brook's

W	3.0	264.1
50' Wet E.L.	3.2	263.9
40 "	3.1	264.0
30 "	2.9	264.2
20 "	2.7	264.4
10 "	2.0	265.1
E.L.	1.9	265.2

10' No Brook's

E.L.	2.6	264.5
10' W	2.5	264.6
20 "	1.7	265.4
30 "	1.1	266.0
40 "	1.1	266.0
50 "	1.8	265.3
W.L.	2.5	264.6

W.L.

8.8	258.3	
50' Wet E.L.	6.8	260.3
40 "	6.3	260.8
30 "	6.7	260.4
20 "	6.0	261.1
10 "	5.7	261.4
E.L.	4.6	262.5

30' No Brook's

E.L.	7.6	259.5
10' W	8.5	258.6
20 "	9.6	257.5
30 "	11.5	256.6
40 "	11.5	255.6
50 "	12.5	254.6

267.10

40 No Brookes

E.L.		11.7	255.4
10W "		12.9	254.2
20 "		13.0	254.1
30 "		13.1	254.0
T.P.	0.06	254.61	12.59 254.55

30 No Brookes

W.L.		2.3	252.3
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40 No Brookes

40W of E.L.		1.5	253.1
50 "		2.2	252.4
W.L.		5.5	249.1

50 No Brookes

W.L.		9.3	245.3
50W of E.L.		6.4	248.2
40 "		5.5	249.1
30 "		4.2	250.4
20 "		4.1	250.5

3

10W of E.L.		4.3	250.3
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E.L.		4.3	250.3
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60 No Brookes

E.L.		9.3	245.3
------	--	-----	-------

10W		9.0	245.6
-----	--	-----	-------

20 "		8.5	246.1
------	--	-----	-------

30 "		8.6	246.0
------	--	-----	-------

40 "		9.5	245.1
------	--	-----	-------

50 "		10.8	243.8
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W.L.		13.0	241.6
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T.P.	1.51	243.18	12.94 241.67
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70 No Brookes

W.L.		5.8	237.4
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50W of E.L.		3.4	239.8
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40 "		4.5	240.7
------	--	-----	-------

30 "		1.0	242.2
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20 "		0.4	242.8
------	--	-----	-------

24318

4

10 W of EL 1.4 241.8

E.L. 1.5 241.7

800 No Brookies

E.L. 4.9 238.3

10 W of EL 6.6 236.6

20 " 6.1 237.1

30 " 6.3 236.9

40 " 6.9 236.3

50 " 7.4 235.8

W.L. 8.8 234.4

90 No Brookies

W.L. 13.5 229.7

50 W of E.L. 12.7 230.5

40 " 12.0 231.2

30 " 10.8 232.4

20 " 10.6 232.7

10 " 8.7 234.5

E.L. 7.7 235.5

100 No Brookies

E.L. 7.2 236.0

10 W 8.3 234.9

20 " 9.5 234.7

30 " 11.4 231.8

40 " 12.8 230.4

50 " 14.0 229.2

W.L. 16.0 227.2

110 No Brookies

W.L. 13.6 229.6

50 W of E.L. 11.7 231.5

40 " 10.4 232.8

30 " 8.5 234.7

20 " 6.6 236.6

10 " 4.6 238.6

E.L. 3.2 240.0

243.18

120' No Brookies

10' Wet EL	17	241.5
20 " "	3.7	239.5
30 "	5.4	237.8
40 "	6.8	236.4
50 "	9.0	234.3
W.L.	11.1	232.1

130' No Brookies

W.L.	8.4	234.8
50' Wet EL	5.4	237.8
40 " "	3.4	239.8
30 " "	1.9	241.3

140' No Brookies

W.L.	4.5	238.7
50' Wet EL	1.1	242.1

TP 12.69 255.39 0.48 242.70

120' No Brookies

EL	11.1	244.3
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130' No Brookies

EL	7.6	247.8
10' Wet EL	9.7	245.7
20 " " "	11.6	243.8

140' No Brookies

EL	11.4	254.0
10' W	4.2	257.3
20 "	7.2	248.2
30 "	9.3	246.1
40 "	11.0	244.9

150' No Brookies

W.L.	12.3	243.1
50' Wet EL	8.0	247.4
40 " " "	6.3	249.1
30 "	4.2	251.2
20 "	1.4	254.0

160 No Brookies

W.L.	8.6	246.8
50 W of EL.	3.5	251.9
40 "	1.5	253.9

120 No Brookies

W.L.	4.8	
T.P. 1186	264.48	2.77 252.62

150 No Brookies

EL	4.9	259.6
10 W	8.0	256.5

160 No Brookies

30 W of EL	8.4	256.1
20 "	5.9	258.6
10 "	1.8	262.7

170 No Brookies

50 W of EL	9.8	254.7
40 " "	7.8	256.7
30 "	4.2	260.8

20 W of EL	2.2	262.3
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180 No Brookies

20 W of EL	1.0	263.5
30 " "	3.8	260.7
40 " "	6.7	257.8
50 " "	9.1	255.4

W.L.	12.6	251.9
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190 No Brookies

W.L.	12.4	252.1
50 W of EL	9.3	255.2
40 " "	6.1	258.4
30 "	3.6	260.9
20 "	0.4	264.1

200 No Brookies

20 W of EL	0.0	264.5
30 " "	3.0	261.5
40 "	6.7	257.8

264.48

200 No

50 W. + E.L. 9.6 254.9

W.L. 13.4 257.1

T.P. 5.46 269.38 0.56 263.92

160 No Brookes

E.L. 4.8 264.6

170 No Brookes

E.L. 2.7 266.7

10' W 4.5 264.9

180 No Brookes

E.L. 1.8 267.6

10' W 3.5 265.9

190 No Brookes

E.L. 1.5 267.9

10' W 3.2 266.2

200 No Brookes

E.L. 1.4 268.0

10' W 2.8 266.6

7

210 No Brookes

E.L. 0.9 268.5

10' W 2.3 267.1

20" 4.2 265.2

30" 7.3 262.1

40" 11.3 258.1

220 No Brookes

E.L. 0.5 268.9

10' W 2.1 267.3

20" 3.7 265.7

30" 7.9 261.5

40" 11.9 257.5

230 No Brookes

E.L. 0.8 268.6

10' W 2.1 267.3

20" 3.4 266.0

30" 7.6 261.8

40" 12.5 256.9

269.38

240 No Brookies

E.L.	0.5	268.9
10 W	1.6	267.8
20 "	3.5	265.9
30 "	7.9	261.5
40 "	13.6	255.8

250 No Brookies

E.L.	0.7	268.7
10 W	1.5	267.9
20 "	3.5	265.9
30 "	9.0	260.4
40 "	13.8	255.6

260 No Brookies

E.L.	0.9	268.5
10 W	2.2	267.2
20 "	4.8	264.6
30 "	9.9	259.5

8

270 No Brookies

E.L.	1.1	268.5
10 W	3.3	266.1
20 "	9.2	261.2
30 "	12.7	256.7

280 No Brookies

E.L.	1.7	267.7
10 W	5.6	263.8
20 "	10.3	259.1
30 "	14.7	254.7

290 No Brookies

E.L.	1.9	267.5
10 W	6.7	262.7
20 W	11.8	257.6
30 W	16.7	252.7

300 No Brookies

E.L.	1.8	267.6
10 W	6.1	263.3
20 W	11.5	257.9
30 W	16.0	253.4

269.38

310 No Brookies

EL	1.1	11.4	268.0
10 W	4.1	4.4	265.0
20 "	10.4		259.0
30 "	14.4		255.0

320 No Brookies

EL	1.1		268.3
10 W	3.2		266.2
20 "	P.3		261.1
30 "	3.2		256.2

330 No Brookies

EL	10.6		268.8
10 W	3.0		266.4
20 "	7.4		262.0
30 "	12.7		256.7

ST.P	0.64		268.74
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T.P	0.52	256.97	12.93	256.45
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9

210 No Brookies

W.L.	6.9		250.1
50 W + EL	3.0		254.0

220 No Brookies

W.L.	9.1		247.9
50 W + EL	4.5		252.5

230 No Brookies

W.L.	11.6		245.4
50 W + EL	5.7		251.5

240 No Brookies

W.L.	12.0		245.0
50 W + EL	5.9		251.1

250 No Brookies

W.L.	10.9		246.1
50 W + EL	5.9		251.1

260 No Brookies

W.L.	11.2		245.8
50 W + EL	5.7		251.3
40 "	2.5		254.5

256.97

270 No. Brookes

W.L.	13.1	243.9
50 W of EL	7.8	249.2
40 "	4.3	252.7

280 No. Brookes

W.L.	16.1	240.9
50 W of EL	11.6	245.4
40 " "	6.9	250.1

290 No. Brookes

W.L.	17.9	239.1
50 W of EL	13.1	243.9
40 " "	8.6	248.4

300 No. Brookes

W.L.	17.8	9.2
50 W of EL	12.6	249.4
40 " "	8.6	248.4

10

310 No. Brookes

W.L.	17.0	240.0
50 W of EL	11.8	245.3
40 "	7.5	249.5

320 No. Brookes

W.L.	15.8	241.2
50 W of EL	11.0	246.0
40 " "	6.3	250.7

330 No. Brookes

W.L.	15.1	241.9
50 W of EL	9.8	247.2
40 " "	5.2	251.8

340 No. Brookes

W.L.	15.0	242.0
50 W of EL	9.3	247.7
40 " "	4.7	252.3

25697

350 No Brookies

W.L	14.6	242.4
50 W of EL	9.1	247.9
40 " " "	4.7	252.3

360 No Brookies

W.L	14.1	242.9
50 W of EL	8.5	248.5
40 " " "	4.4	252.6

370 No Brookies

W.L	13.6	243.4
50 W of EL	8.4	248.6
40 "	3.9	253.1

380 No Brookies

W.L	12.5	244.5
50 W of EL	8.2	248.8
40 " " "	3.7	253.3

11

390 No Brookies

W.L	12.3	244.7
50 W of EL	7.7	249.3
40 " " "	3.0	254.0

400 No Brookies

W.L	10.7	246.3
50 W of EL	5.7	251.6
40 " " "	1.1	255.9

410 No Brookies

W.L	8.6	248.4
50 W of EL	3.9	253.1

420 No Brookies

W.L	6.9	250.1
50 W of EL	2.0	255.0

430 No Brookies

W.L	6.0	251.0
50 W of EL	0.7	256.3

440 No BrookKos

W.L. 5.2 251.8

450 No BrookKos

W.L. 4.9 252.1

460 No BrookKos

W.L. 4.1 252.9

470 No BrookKos

W.L. 3.0 254.0

480 No BrookKos

W.L. 0.3 256.7

2.55 271.29 261.74

340 No BrookKos

E.L. 2.3 269.0

10 W 4.5 266.8

20 W 9.2 262.1

30 W 14.2 257.1

350 No BrookKos

E.L. 2.3 269.0

10 W 4.5 266.8

20 W 9.3 262.0

30 W 14.2 257.1

360 No BrookKos

E.L. 2.5 268.8

10 W 4.5 266.8

20 W 8.8 262.5

30 W 14.4 256.9

370 No BrookKos

E.L. 2.1 269.2

10 W 3.7 267.6

20 W 8.2 263.1

30 W 13.2 258.1

27129

380 No Brookles

EL	2.0	269.3
10 W	3.1	268.2
20 "	7.8	263.5
30 "	12.9	258.4

395 No Brookles

EL	2.0	269.3
10 W	2.6	8.7
20 "	6.9	264.4
30 "	11.9	259.4

400 No Brookles

EL	1.8	269.5
10 W	2.8	268.5
20 "	5.3	266.0
30 "	10.6	260.7

410 No Brookles

EL	1.8	269.5
10 W	2.5	268.8
20 "	3.5	267.8
30 "	8.0	263.3

420 No Brookles

EL	1.8	269.5
10 W	2.2	269.1
20 "	3.2	268.1
23 "	3.6	267.7
30 "	7.1	264.2

430 No Brookles

EL	1.5	269.8
10 W	2.0	269.3
20 "	3.1	268.2
27 "	3.8	267.5

27.29

440 No. Brookles

EL.		1.3	270.0	
10 W		2.1	269.2	
20 "		2.9	268.4	
30 "		4.0	267.3	
TIP	2.45	272.00	1.74	269.50

450 No. Brookles

E, L		2.3	269.7
10 W		3.8	269.2
20 "		3.3	268.7
30 "		4.9	267.1
40 "		7.6	263.4
50 "		13.6	258.4

460 No. Brookles

EL		2.7	269.9
10 W		2.8	269.2
20 W		3.5	268.5
30 "		4.6	267.4

14

40 W		8.7	263.3
50 "		13.3	258.7

470 No. Brookles

EL		2.0	270.0
10 W		2.7	269.8
20 "		3.2	268.8
30 "		5.0	267.0
40 "		9.1	262.9
50 "		12.6	259.4

480 No. Brookles

EL		2.0	270.0
10 W		2.7	269.3
20 "		2.9	269.1
30 "		3.7	268.5
40 "		7.3	264.7
50 "		11.1	260.9

272.00

490 No Brook Kes

EL	2.0	270.0
10 W	2.5	269.5
20 "	2.7	269.3
30 "	2.8	269.2
40 "	5.4	266.6
50 "	9.0	263.0
W.L.	12.6	259.4

500 No Brook Kes

W.L.	7.8	262.2
50 No EL	5.8	266.2
40 "	2.9	269.1
30 "	2.5	269.5
20 "	2.5	269.5
10 "	2.3	269.7
EL	1.6	270.4

510 No Brook Kes

EL	1.2	270.8
10 "	1.8	270.2
20 "	2.4	269.6
30 "	2.5	269.5
40 "	2.6	269.4
45 "	2.7	269.3
50 "	3.5	268.5
W.L.	5.5	266.5

520 No Brook Kes

W.L.	4.6	267.4
50 No EL	2.4	269.6
40 "	2.2	269.8
30 "	2.2	269.8
20 "	2.2	269.8
10 "	1.6	270.4
EL	0.9	271.1

TP 12.4 261.22 12.12 259.88

POSTED

26/22

410' N. Brookes

40' W of E.L. 3.2 257.6

420' N. Brookes

40' W of E.L. 1.6 259.6

430' N. Brookes

40' W of E.L. 40.2 261.4

440' N. Brookes

50' W of E.L. 3.7 257.5

Note - Ele. at 40' W of E.L. on 440' Sta is
omitted on acct of trees - straight slope
bet elevations.

Levels over a line 5' E of Cr of 2nd 5+
 from Saline Penna to N. Line Brodges.

POSTED

17

	2.65	267.88		266.23			
0 = N. L. Brodges		37		264.2	+30		241.7
+07		1.6		266.3	T.P.	9.11	251.25 256 241.84
+10		2.1		265.6	+40		246.8
+20		7.9		260	T.P.	12.66	263.37 257.4 250.51
+30		10.7		257.2	+50		252.2
T.P.	0.24	255.22	12.90	254.98	+60		256.9
+40		1.5		253.7	+68		260.4
+50		4.9		250.3	+70		260.8
+60		9.3		245.9	+80		262.1
+70		13.0		242.2	+90		262.3
T.P.	0.15	242.40	12.97	242.25	2+80		262.7
+80		5.6		236.8	+25		263.4
+90		10.3		232.1	+50		262.1
+94		10.9		231.5	+75		257.1
+100		9.8		232.6	+88		255.2
+110		7.2		235.2	3+00		255.0
+20		4.2		238.2	+25		258.7

263.37 -

3450		46	268.8
+75		3.6	269.8
4100		0.2	268.2
T.P.	10.66	272.24	0.79
			262.58
+25		57	267.5
+50		51	268.1
+75		50	268.2
5200		41	269.1
+25		33	269.9
+50		26	270.6
+75		3.5	269.7
6100 = S.L. Perm		3.6	269.6

Hatch }
 Moore }
 Dorman } $\frac{3}{29}/07$ Post Rd - Penn.
 Cut stakes on 2nd St

19

BM	10.56	275.77	265.23	SE cor 2 nd - Brooks Spk. in Pole.
	1.43	266.58	10.64	265.15
440 S of Penn-	9.85	256.73	260.23	f 3.5
430	5.9	260.7	259.96	C 0.7
420	4.64	261.94	259.70	C 2.2
410	4.4	262.2	259.43	C 2.8
400	3.8	262.8	259.16	C 3.6
390	3.2	263.4	258.90	C 4.5
380	3.3	263.3	258.63	C 4.7
370	3.25	263.3	258.37	C 4.9
360	2.9	263.7	258.1	C 5.6
350	4.43	262.15	257.85	C 4.3
340	5.65	260.9	257.7	C 3.2
330	8.13	258.45	257.6	C 0.9
320	10.9	255.7	257.6	f 1.9
310	12.2	254.4	257.75	f 3.4
300	11.78	254.8	257.9	f 3.1
290	10.25	256.3	258.1	f 1.8

$\frac{00}{1.0} \frac{00}{1.0} \frac{00}{1.0}$
 $\frac{00}{4.5} \frac{00}{0.0} \frac{00}{6.5}$
 $\frac{00}{+1.0} \frac{00}{+2.8} \frac{00}{+5.2}$
 $\frac{00}{4.5} \frac{00}{0.0} \frac{00}{7.5}$
 $\frac{00}{+1.8} \frac{00}{+3.6} \frac{00}{+5.7}$
 $\frac{00}{5.0} \frac{00}{0.0} \frac{00}{7.5}$
 $\frac{00}{+2.3} \frac{00}{+4.7} \frac{00}{+7.2}$
 $\frac{00}{5.5} \frac{00}{0.0} \frac{00}{7.5}$
 $\frac{00}{+2.5} \frac{00}{+4.9} \frac{00}{+7.6}$
 $\frac{00}{5.5} \frac{00}{0.0} \frac{00}{7.5}$
 $\frac{00}{+2.1} \frac{00}{+5.0} \frac{00}{+8.0}$
 $\frac{00}{5.5} \frac{00}{0.0} \frac{00}{7.5}$
 $\frac{00}{+1.6} \frac{00}{+4.3} \frac{00}{+7.0}$
 $\frac{00}{5.5} \frac{00}{0.0} \frac{00}{3.6} \frac{00}{+8.3}$
 $\frac{00}{+0.9} \frac{00}{+3.2} \frac{00}{+7.3}$
 $\frac{00}{4.5} \frac{00}{0.0} \frac{00}{7.5}$
 $\frac{00}{-5.1} \frac{00}{14.0} \frac{00}{+0.9} \frac{00}{+4.7}$
 $\frac{00}{17.0} \frac{00}{0.0} \frac{00}{7.5}$
 $\frac{00}{-13.5} \frac{00}{-1.9} \frac{00}{0.0}$
 $\frac{00}{26.5} \frac{00}{0.0} \frac{00}{4.4} \frac{00}{+0.8}$
 $\frac{00}{-16.3} \frac{00}{-3.5} \frac{00}{0.0}$
 $\frac{00}{31.0} \frac{00}{0.0} \frac{00}{6.5}$
 $\frac{00}{-17.0} \frac{00}{-3.1} \frac{00}{0.0}$
 $\frac{00}{32.0} \frac{00}{0.0} \frac{00}{5.5}$
 $\frac{00}{-14.1} \frac{00}{-1.8} \frac{00}{0.0}$
 $\frac{00}{27.5} \frac{00}{6.9} \frac{00}{3.7} \frac{00}{+0.3}$
 $\frac{00}{5.5}$

26658

280		8.68	257.9	258.4	f 0.5				
270		8.13	258.5	258.8	f 0.3	$\frac{-11.0}{23.0}$	$\frac{-0.3}{0.0}$	$\frac{0.0}{1.0}$	$\frac{+3.8}{7.5}$
260		7.9	258.7	259.4	f 0.7				
240		7.4	259.2	260.6	f 1.4	$\frac{-14.3}{28.0}$	$\frac{-1.9}{0.0}$	$\frac{0.0}{2.0}$	$\frac{+1.8}{7.5}$
220		6.45	260.1	261.8	f 1.7	$\frac{-15.5}{29.0}$	$\frac{-1.7}{0.0}$	$\frac{0.0}{3.6}$	$\frac{+2.0}{6.0}$
200		3.78	262.8	263.0	f 0.2	$\frac{-13.4}{26.0}$	$\frac{-0.2}{0.0}$		$\frac{+3.2}{7.0}$
T.P.	7.79	273.61	0.76	265.82					
170		5.7	267.9	267.8	C 2.1	$\frac{0.0}{6.5}$	$\frac{+3.1}{0.0}$		$\frac{+3.3}{7.5}$
150		5.5	268.1	266.0	C 2.1	$\frac{0.0}{7.5}$	$\frac{+3.1}{0.0}$		$\frac{+2.8}{7.0}$
130		5.6	268.0	267.20	f 0.8	$\frac{0.0}{3.3}$	$\frac{+0.8}{0.0}$		$\frac{+1.6}{6.0}$
120		4.9	268.7	267.75	C 1.0	$\frac{0.0}{6.0}$	$\frac{+1.0}{0.0}$		$\frac{+1.2}{6.0}$
110		4.1	269.5	268.2	C 1.3				
100		4.4	269.2	268.6	C 0.6	$\frac{+0.8}{4.5}$	$\frac{+0.6}{0.0}$		$\frac{+0.8}{5.5}$
90		4.1	269.5	268.85	C 0.7				
80		3.9	269.7	269.05	C 0.7				
70		3.6	270.0	269.2	C 0.8	$\frac{+1.0}{4.5}$	$\frac{+0.8}{0.0}$		$\frac{+0.9}{5.5}$
50		3.0	270.6	269.36	C 1.2	$\frac{+1.2}{4.5}$	$\frac{1.2}{0.0}$		$\frac{+1.2}{5.5}$

POSTED

27361

20-

3.9 269.7 269.56 Co.1

+0.1
4.5+0.1
00+0.3
5.8

0.5h Penn.

4.0 269.6 269.70 f0.2

-0.5
4.5-0.2
10-0.1
5.9

Rate - 0.8%

X sections Essex
10th - Richmond
POSTED

Bm	5.18	287.92	282.74
Bm		4.52	283.10
	E h 10 th St		
N		5.0	282.9
		4.5	283.4
		4.6	283.3
cr		5.1	282.8
		4.7	283.2
		4.3	283.6
S		3.9	284.0
	50' E of 10 th		
S		4.1	283.8
		4.7	283.2
		4.8	283.1
cr		5.0	282.9
		5.6	282.3
		5.6	282.3
IV		5.7	282.2

Hatch
Moore } 3/29/07
Dannan }

22

Spk = Principal NW cor 10th - Wm

" " Elm Pole NW Cor 10th - Essex

28792

75' E of 10th

N	6.0	281.9
	6.2	281.7
	6.1	281.8
	6.0	281.9
	5.9 ✓	282.0
	4.5	283.4
S	4.3	283.6

100' E of 10th

S	4.6	283.3
cb	4.9	283.5
1/4	4.4	283.5
+8	5.8	282.1
cr	5.5	282.4
1/4	5.5	282.4
cb	6.5	281.4
N	8.1	279.8

28792

125' E of 10th

10' N of N.L.	12.9	275.0
N	11.9	276.5
	9.5	278.4
	7.7	280.2
cr	6.2	281.7
+5	4.1	283.8
1/4	4.8	283.1
cb	5.1	282.8
S	4.9	283.0

150' E of 10th

S	4.9	283.0
cb	5.6	282.3
1/4	5.3	282.6
+3	4.2	283.7
+11	3.6	284.3
cr	4.8	283.1
+1	7.3	280.6

Hatch
Donnan } 3/30/07
Emery } 256.10

24

	287.92					
+10	8.3	279.6		300' E of 10 th		
1/4	9.8	278.1	10' N.		10.0	276.1
cb.	13.1	274.8	N.		14.7	271.4
N	15.7	272.2	cb.		9.2	276.9
10' N. of N.L	19.0	268.9	1/4		5.2	280.9
	300 286.10	283.10	5		4.8	281.3
	175' E of 10 th		cr.		1.5	284.6
5	2.4	283.7	7		1.5	284.6
5	3.3	282.8	1/4		3.9	282.2
cb.	4.0	282.1	cb.		4.0	282.1
1/4	3.8	282.3	10		3.9	282.7
5	1.8	284.3	5		2.5	280.6
cr.	1.8	284.3		250 E of 10 th		
5	5.9	280.7	5		2.0	284.1
1/4	6.8	279.3	4		2.8	283.3
cb.	10.6	275.5	cb.		3.5	282.6
N.	16.2	269.9	1/4		3.5	282.6
10' N	11.9	274.2				

286.10				292.75			
6		0.8	285.3	cb.		9.5	283.3
cr		0.9	285.2	12		8.5	284.3
2		0.9	285.2	5		7.5	285.3
7		4.0	282.1		350' E of 10 th		
1/4		3.9	282.2	5		6.7	286.1
cb.		3.6	282.5	10'		7.0	285.8
N		4.1	1820 282.0	cb.		7.9	284.9
	300' E of 10 th			2		8.4	284.4
N		3.2	282.9	1/4		7.7	285.1
cb.		1.6	284.5	7		5.8	287.0
1/4		1.3	284.8	cr		6.0	286.8
5		2.5	283.6	5		8.1	284.7
10		0.2	285.9	1/4		7.9	284.9
7.5	945	292.75	2.80 283.30	cb.		9.5	283.3
cr		6.7	286.1	3		10.1	282.7
3		6.6	286.2	N		8.8	284.0
1/4		9.2	283.6				

292.75

400 E of 10th

N	8.1	284.7
cb	6.8	286.0
1/4	5.7	287.1
6	6.5	286.3
cr.	5.2	287.6
5	5.3	287.5
1/4	7.4	285.4
cb.	7.4	285.4
S	6.4	286.4

450 E of 10th

S	6.2	286.6
cb.	5.5	287.3
8	5.0	287.8
1/4	5.6	287.2
cr.	4.8	288.0
5	6.2	286.6

292.75

1/4	6.3	286.5
cb.	6.0	286.8
N	5.9	286.9
479.5 E of 10 th = W. Vermont.		
N	5.6	287.2
cb.	5.3	287.5
1/4	5.8	287.0
cr.	4.5	288.3
1/4	5.0	287.8
cb.	5.1	287.7
S	5.1	287.7

E. Vermont.

BM SE cor Hyatt Noyes -

1.59	291.16	
S	3.3	289.5
4	3.9	288.9
cb.	3.8	289.0
1/4	3.9	288.9

292.75

cr.	3.8	289.0
1/4	3.5	289.4
cb.	3.9	288.9
N	3.9	288.9

50' E of Vermont

N	3.6	289.2
cb.	3.5	289.3
1/4	3.3	289.5
c	3.3	289.5
1/4	3.2	289.0
cb.	3.1	289.7
11	3.3	289.5
S	2.2	290.6

100' E of Vermont

S	3.9	289.9
cb.	3.3	289.5
1/4	3.3	289.5

292.75

c	2.6	290.2
1/4	2.9	289.9
cb.	3.1	289.7
N	3.2	289.6

150' E of Vermont

N	1.9	290.9
cb.	2.1	290.7
1/4	2.1	290.7
c	1.8	291.0
1/4	2.5	290.3
cb.	2.2	290.6
S	1.7	291.1

200' E of Vermont

S	1.2	291.6
cb.	1.4	291.4
1/4	1.2	291.6
cr	1.4	291.4

	292.75		
1/4	1.2	291.6	
cb	1.2	291.6	
N	1.2	291.6	

T.P. 584 297.53 1.06 291.69

350' E of Vermont

N	5.5	292.0	
cb	5.3	292.2	
1/4	5.2	292.3	
c	5.6	291.9	
1/4	5.6	291.9	
cb	5.5	292.0	
S	5.3	292.2	

300' E of Vermont

S	4.4	293.1	
cb	5.0	292.5	
1/4	5.0	292.5	
cr	5.7	292.4	

297.53

1/2	4.9	292.6	
cb	4.8	292.7	
N	4.7	292.8	

350' E of Vermont

N	4.4	293.1	
cb	4.2	293.3	
1/4	4.5	293.0	
c	4.3	292.7	
1/4	4.5	293.0	
cb	4.6	292.9	
S	4.0	293.5	

400' E of Vermont

S	3.6	293.9	
cb	4.1	293.4	
1/4	4.3	293.2	
c	4.2	293.3	
1/4	4.2	293.3	

297.53

cb.	3.7	293.8
N.	4.2	293.3

450' E of Vermont

N.	3.5	294.0
cb.	3.5	294.0
1/4	3.7	293.8
c	3.7	293.8
1/4	3.7	293.8
cb.	3.5	294.0
S	3.1	294.4

500' E of Vermont

S	2.6	294.9
cb.	3.1	294.4
1/4	3.4	294.1
c	3.5	294.0
1/4	3.5	294.0
cb.	3.2	294.3

29

297.53

N.	2.6	294.9
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TP.	4.94	299.03	3.44	294.09
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550' E of Vermont.

N.	3.6	295.4
cb.	4.7	294.3
1/4	4.5	294.5
c	4.5	294.5
1/4	5.0	294.0
cb.	4.0	294.0
S	4.0	294.0

601 E of Vermont - Wk Richmond

S	3.6	295.4
cb.	3.2	295.8
S	3.9	295.1
1/4	4.0	295.0
cb.	4.1	294.9
S	4.6	294.4

299.03

1/4

3.8

295.2

cb.

3.9

295.1

N

3.4

295.6

463 301.43

BM. Spk in pole SE
Eden - Richmond.

2.8

296.85

T.P.

161 300.39

2.70

298.78

Sheds

4.02

296.37 296.40

14th St

A - Park.

Curb Levels

4/10/07
Hatch
Dunn
Emery

30

POSTED

14th - A.

BM

11.45

142.29

135.84

NW cb.

9.75

137.54

SW cb.

11.75

136.54

E

W

8.1

139.2

9.2

138.1

137.7

35

140.6

7.7

139.6

50

142.0

6.1

141.2

75

143.3

4.5

142.8

100

144.7

2.9

144.4

110

2.0

145.3

2.4

144.9

Cross sections E St

POSTED

15th - E Top of 2"x4" Post SE
 Bm 6.99 46.65 40.16

E Line 15th

S	9.2	37.5
cb	9.0	37.7
1/2	9.0	37.7
cr	8.7	38.0
1/2	9.5	37.2
cb	9.1	37.6
N	8.8	37.9
25'		
N	7.7	39.0
cb	7.8	39.4
1/2	7.1	39.6
e	7.7	39.0
1/2	8.2	38.5
cb	7.7	39.0
S	6.5	40.2

4/1/07

Hatch
 Dominion
 Emery.

31

46.65

35'

S	5.9	40.8
cb	6.1	40.6
1/2	6.2	40.5
e	6.1	40.6
1/2	5.7	41.0
cb	5.7	41.3
N	5.1	41.6
30		
N	5.3	41.4
cb	5.5	41.2
1/2	5.3	41.4
e	5.7	41.0
1/2	6.3	40.4
cb	6.3	40.4
S	6.1	40.6

POSTED

32

	46.65		
	100'		
S	6.0	40.7	
cb	6.1	40.6	
1/4	5.9	40.8	
c	5.6	41.1	
1/4	5.1	41.6	
cb	4.9	41.8	
N	4.7	42.0	

	150'		
N	4.7	42.0	
cb	4.5	42.2	
1/4	4.5	42.2	
c	4.6	42.1	
1/4	5.0	41.7	
cb	5.2	41.5	
S	4.8	41.9	

T.P. 698 51.62 201 44.64

	51.62		
	175'		
S	6.7	44.9	
cb	8.3	43.0	
1/4	8.9	42.7	
c	8.6	43.0	
1/4	8.7	42.9	
cb	8.9	42.7	
N	9.1	42.5	

200.5 E of 15" = NW 16"

N	7.8	43.8
cb	7.5	44.1
1/4	6.3	45.3
c	6.3	45.3
1/4	5.3	46.3
cb	4.9	46.7
S	4.9	46.7

BM SE 16" 4E 0.77 50.85

4/3/167

Hatch
Dorman
Kelly-

8.19 5904

50.85

W 1/4 16th

S	12.1	46.9
cb.	12.5	46.5
1/4	12.4	46.6
c	12.6	46.4
1/4	12.9	46.1
cb.	12.8	46.2
N.	13.0	46.0
	W 1/4 - 16 th	
N	12.5	46.5
cb	12.9	46.6
1/4	12.4	46.6
c	12.1	46.9
1/4	11.8	47.2
cb.	12.2	46.8
S	11.6	47.4

5904

Cr. 16th

33

S	11.4	47.6
cb.	11.6	47.4
1/4	11.6	47.4
c	12.0	47.0
1/4	12.2	46.8
cb.	12.0	47.0
N.	12.1	46.9
	E 1/4 16 th	
N	11.9	47.1
cb	11.7	47.3
1/4	11.6	47.4
c	11.6	47.4
1/4	11.4	47.6
cb.	11.2	47.8
S	11.5	47.5

5904

E. Ob. 16th

S	10.3	48.7
cb.	10.5	48.5
1/4	10.7	48.3
a	10.7	48.3
1/4	10.8	48.2
cb.	11.4	47.6
N	11.5	47.5

E. line 16th

N	10.3	48.7
cb.	10.1	48.9
1/4	9.8	49.2
a	9.6	49.4
1/4	9.6	49.4
cb.	9.6	49.4
S	8.6	50.4

5904

5' E of 16th

S	6.3	52.7
8'	8.8	50.2
cb.	9.2	49.8
1/2	9.2	49.8
c	9.3	49.7
1/2	9.1	49.9
5'	8.5	50.5
8'	0.6	58.4
cb.	2.5	56.5
N.	7.5	51.5

10' E of 16th

N	6.3	53.7
cb.	2.2	56.8
2'	1.5	57.5
7'	8.7	50.3
1/4	8.9	50.1

5904				6904			
cr.	89	50.1	T.P.	12.55	70.85	1.04	58.00
1/4	8.3	50.7		35' E of 16 th			
cb.	8.7	50.3	N.		16.6		54.3
6	7.6	51.4	cb.		12.0		58.9
12	+2.6	61.6	3		7.3		63.6
5	+2.6	61.6	6		6.6		64.3
	30' E of 16 th		10		11.7		59.2
5	+9.0	68.0	1/4		12.3		58.6
5'	+9.0	68.0	cr.		13.3		57.6
cb.	0.3	58.7	1/2		12.0		58.9
1/4	3.6	53.4	cb.		9.3		63.6
cr.	6.1	52.9	6		0.7		40.2
1/4	5.6	53.4	5		0.9		70.0
10	+3.2	62.2	T.P.	9.42	79.65	0.62	70.23
12	+3.0	62.0		45' E of 16 th			
cb.	1.4	57.6	5		6.6		73.1
N.	4.7	54.3	cb.		5.0		74.7

7965

1/4		5.6	74.1
c		7.1	72.6
1/4		10.1	69.6
8		13.0	66.7
cb		19.3	60.4
N		-	55.1

75° E of 16"

N		-	56.6
cb		16.3	63.4
2		4.4	95.3

T.P.	8.30	87.59	0.36	79.29
1/4		6.8	80.8	
cr		3.5	84.1	
1/4		2.1	85.5	
cb		2.4	85.2	
S		3.4	84.2	

8759

100' E of 16"

N		13.0	74.6	
cb		6.6	81.0	
T.P.	12.89	99.90	0.58	87.01
1/4		11.9	88.0	
cr		8.0	91.9	

1/4		7.1	92.8
cb		7.5	92.4
S		7.7	92.2

150' E of 16"

N		3.8	94.1
11		3.3	96.4
cb		3.3	96.6
1/4		3.2	96.7
c		3.3	96.6
1/4		3.7	96.2
cb		4.0	95.9
S		4.3	95.6

99.90

200' E of 16" = W 17^{1/4}

S	2.7	97.2
cb	2.3	97.6
1/2	2.0	97.9
C	2.0	97.9
1/4	1.9	98.0
cb	2.2	97.7
N	3.0	96.9

XV cb 17

S	3.5	96.4
cb	3.1	96.8
1/2	2.8	97.1
C	2.6	97.3
1/4	2.3	97.6
cb	2.5	97.4
N	3.1	96.8

99.90

W 1/4 - 17^{1/4}

N	2.2	97.7
cb	2.4	97.6
1/2	1.8	98.1
C	1.9	98.0
1/4	1.9	98.0
cb	2.1	97.8
C	2.8	97.1

XVI 17^{1/4}

S	1.7	98.2
cb	1.7	98.2
1/2	1.7	98.2
C	2.1	97.8
1/4	1.8	98.1
cb	2.1	97.8
N	1.9	98.0

9990

E 1/4 17th

N	1.4	98.6
cb	1.9	98.0
1/4	2.5	97.4
c	2.6	97.3
1/4	2.4	97.5
cb	2.3	97.6
S	1.6	98.3

TP 497 10312 17.5 98.15

E cb. 17th

S	4.7	98.4
cb	5.3	97.8
1/4	5.6	97.5
c	5.7	97.7
1/4	5.3	97.8
cb	4.5	98.6
N	4.4	98.7

10312

E Line 17th

N	3.1	100.0
cb	3.5	99.6
1/4	3.8	99.3
c	4.5	98.6
1/4	4.9	98.2
cb	5.2	97.9
S	4.8	98.3

50' E of 17th

S	3.4	99.7
cb	3.6	99.5
1/4	3.7	99.7
c	3.3	99.8
1/2	3.4	99.7
cb	3.0	100.1
N	2.5	100.6

10312

75' E of 17th

N	3.1	100.0
cb	3.2	99.9
1/4	3.7	99.4
c	3.5	99.6
1/4	3.7	99.4
cb	4.2	98.9
S	4.2	98.9

100' E of 17th

S	5.5	97.6
cb	5.0	98.1
1/4	5.7	98.0
c	5.2	97.9
1/4	5.1	98.0
cb	5.0	98.1
N	4.8	98.3

10312

150' E of 17th

N.	6.4	96.7
cb	6.4	96.5
1/4	7.0	96.1
c	7.3	95.8
1/4	7.7	95.4
cb	8.4	94.7
S	9.1	94.0

T.P. 7.10 98.99 11.23 91.89

197' E of 17th

S	8.6	90.4
cb	7.3	91.7
1/4	6.3	92.7
c	5.7	93.3
1/4	5.1	93.9
cb	5.8	94.0
N	6.5	92.5

POSTED

95.99

B.M.

81.3

90.86

200' E of 7th =

N.L.

18th

N

12.4

86.6

cb

11.9

87.1

1/9

11.7

87.3

c

13.0

86.0

1/9

12.8

86.2

cb

11.7

87.3

S

13.1

85.9

40

N.W. Cor. ^{18th E} SE Cor of Cement Cap. of Wall -

2/2/07 Hatch
Danner
Keller

285+
Brooks North.
Bent elevations for track

POSTED

Bm	3.24	268.47	265.23					
21 (1) N of Brooks		5.84	259.63	263.94	5.431			
TP	0.18	255.73	12.92	255.55				
37 (2)		5.82	254.91	263.51	8.60			
53 (3)		6.12	249.61	263.09	13.48			
69 (4)	1.65	244.30	13.08	242.65	262.66	20.01		
85 (5)		9.71	234.59	262.24	27.65			
101 (6)		11.68	232.62	261.81	29.19			
117 (7)		6.82	237.48	261.38	23.90			
133 (8)	12.12	255.33	1.09	243.21	260.86	16.75		
149 (9)	11.46	263.46	3.33	252.00	260.53	9.53		
165 (10)		4.41	259.05	260.11	12.6			

Cross sections

E

W

41

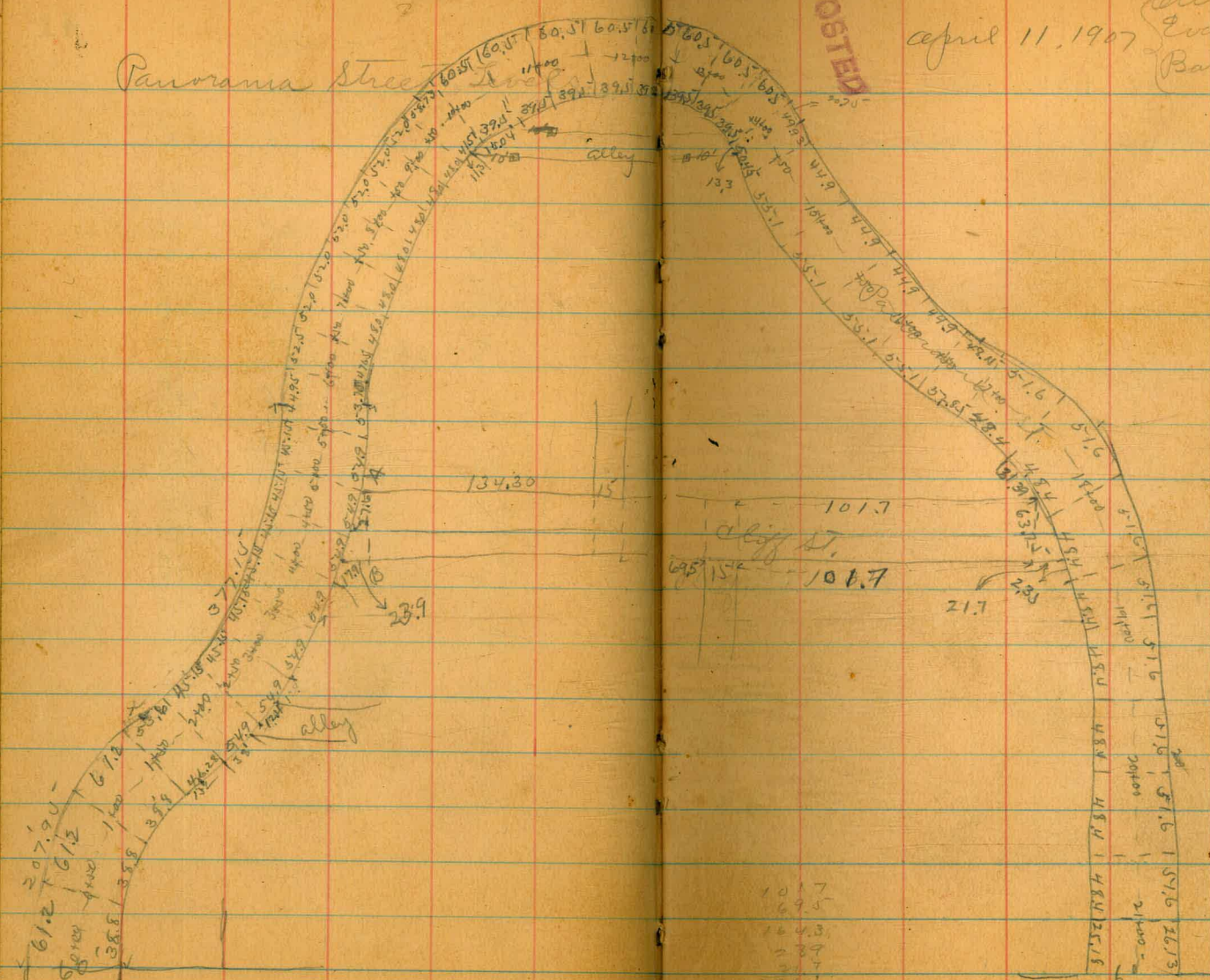
$\frac{+1.1}{10}$	$\frac{+0.9}{5}$	$\frac{+0.2}{10}$	$\frac{+0.4}{20}$
$\frac{+1.0}{20}$	$\frac{+0.7}{10}$	$\frac{-0.4}{10}$	$\frac{-0.8}{20}$
$\frac{+0.4}{20}$	$\frac{0.0}{10}$	$\frac{-1.0}{10}$	$\frac{-2.0}{20}$
$\frac{-0.5}{20}$	$\frac{0.0}{10}$	$\frac{-1.4}{10}$	$\frac{-2.1}{20}$
$\frac{+0.8}{20}$	$\frac{-0.4}{10}$	$\frac{-0.9}{10}$	$\frac{-1.7}{20}$
$\frac{+1.7}{20}$	$\frac{+1.5}{10}$	$\frac{-1.2}{10}$	$\frac{-3.0}{20}$
$\frac{+2.9}{20}$	$\frac{+1.3}{10}$	$\frac{-1.1}{10}$	$\frac{-2.4}{20}$
$\frac{+4.7}{20}$	$\frac{+2.0}{10}$	$\frac{-1.7}{10}$	$\frac{-3.4}{20}$
$\frac{+4.3}{20}$	$\frac{+2.3}{10}$	$\frac{-2.1}{10}$	$\frac{-4.3}{20}$
	$\frac{+3.9}{10}$	$\frac{-1.8}{10}$	$\frac{-3.4}{15}$

Panorama Street

POSTED

April 11, 1907

Childs
Evans
Barber 42



adams ave

101.7
69.5
164.3
101.7
39.1

96.1
85.5

Sta. or Center	Rod Elev.		Rod Elev.	
	Inside	Outside	Inside	Outside
0+00				
+50				
1+00				
+50				
2+00				
+38 alley				
+50				
+62.4 alley				
3+00				
+50				
4+00				
+17.9 cliff				
+50				
+77.6 cliff				
5+00 et				
+50				

Sta. or Center	Rod Elev.		Rod Elev.	
	Inside	Outside	Inside	Outside
6+00				
+50				
7+00				
+50				
8+00				
+50				
9+00				
+61.3 alley				
+76.34 alley				
10+00				
+50				
11+00				
+50				
12+00				
+50				
13+00				

Sta	Rod Elev.	Rod Elev.
on		
Center	Inside	Outside

13+50

+99.26 alley

14+00

+133 alley

+50

15+00

+50

16+00

+50

17+00

+50

+79.89 cliff

18+00

+43.14 cliff

+50

19+00

Stations are Center line distances

X Section Panorama

H.I. 10.65 357.07 34042 B.M.

North line Adams ave at
Alabama St.

E line	10.9	340.2
	10.7	340.4
	10.8	340.3
C	10.4	340.7
	10.1	341.0
	9.4	341.7
E line	9.4	341.7
	50' N	
E line	8.6	342.5
	9.1	342.0
	9.4	340.7
C	9.7	341.4
	9.9	341.2
	10.1	341.0
W line	10.4	340.7

April 12, 1907 } Shields
Travis 45
Barber

100' N

W line	9.8	341.3
	9.3	341.8
	9.0	342.1
C	9.0	342.1
	8.8	342.3
	8.4	342.7
E line	8.2	342.9

150' N

E line	7.3	343.8
	7.5	343.6
	7.6	343.5
C	8.0	343.1
	8.2	342.9
	8.4	342.7
W line	8.3	342.8

200' M

White	7.1	344.0
	7.0	344.1
	6.8	344.3
C	6.8	344.3
	6.5	344.6
	6.5	344.6
Elms	6.2	344.9

250' M

Elms	5.3	345.8
	5.2	345.9
	5.2	345.9
C	5.3	345.8
	5.6	345.5
	5.8	345.3
White	5.6	345.5

351.07

46

300' M

White	3.7	347.4
	4.0	347.1
	4.0	347.1
C	3.9	347.2
	3.7	347.4
	3.5	347.6
Elms	3.2	347.9

350' M

Elms	0.6	350.5
	0.8	350.3
	0.8	350.3
C	1.3	349.8
	1.4	349.7
	2.2	348.9
White	2.3	348.8

J.P. 10.35 ^{H.I.} 360.82 0.60 350.47

360.82

400' N

white	10.0	350.8
	9.6	351.2
	9.1	351.7
c	8.8	352.0
	8.6	352.2
	8.0	352.8
elms	7.9	352.9

450' N

elms	6.7	354.1
	7.0	353.8
	7.0	353.8
e	7.1	353.7
	2.5	353.3
	8.2	352.6
white	8.8	352.0

47

500' N

white	7.5	353.3
	6.6	354.2
	6.7	354.1
c	6.2	354.6
	6.1	354.7
	5.7	355.1
elms	5.6	355.2

550' N

elms	4.5	356.3
	4.5	356.3
	4.9	355.9
c	5.2	355.6
	5.4	355.4
	5.7	355.1
white	6.4	354.4

600' N

White	9.6	357.2
	7.4	353.4
	6.2	354.6
C	5.4	355.4
	4.5	356.3
	4.3	356.5
Blue	3.8	357.0

~~600'~~ N

Blue	4.1	356.7
	4.3	356.5
	4.9	355.9
C	5.6	355.2
	6.3	354.5
	7.2	353.6
White	9.6	351.2

48

650' N

White	7.4	353.4
	6.3	354.5
	5.4	355.4
C	5.2	355.6
	5.0	355.8
	4.0	356.4
Blue	4.1	356.7

700' N

Blue	3.1	357.7
	3.4	357.4
	3.5	357.3
C	3.7	357.1
	3.8	357.0
	3.7	357.1
White	3.5	357.3

360.82

750' N

White	2.9	357.9
	2.6	358.2
	2.3	358.5
C	2.3	358.5
	2.1	358.7
	2.0	358.8
Elms	2.0	358.8

800' N

Elms	1.1	359.7
	1.1	359.7
	1.2	359.6
C	1.3	359.5
	1.4	359.4
	1.3	359.5
White	1.3	359.5

T.P.

4.85'

H.F.

360.21

0.46

360.36

365.21

850' N

White	4.9	360.3
	4.9	360.3
	4.9	360.3
C	5.0	360.2
	5.0	360.2
	4.8	360.4
Elms	4.8	360.4

900' N

Elms	4.7	360.5
	4.5	360.7
	4.6	360.6
C	4.5	360.7
	4.7	360.5
	4.9	360.3
White	5.0	360.2

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see Page 56

360.82

1500' M

White	4.5	356.3
	3.8	357.0
	3.9	356.9
c	3.1	357.7
	3.1	357.7
	2.8	358.0
Elms	2.5	358.3

1550' M

Elms	3.3	357.5
	3.3	357.5
	3.5	357.3
c	3.9	356.9
	3.6	357.2
	3.9	356.9
White	4.0	356.8

360.82

1600' M

White	4.6	356.2
	4.6	356.2
	4.2	356.6
c	4.5	356.3
	4.5	356.3
	3.9	356.9
Elms	3.8	357.0

1650' M

Elms	4.7	356.1
	5.1	355.7
	5.1	355.9
c	5.1	355.7
	5.1	355.7
	5.2	355.6
White	5.2	355.6

50

1700 M		
White	5.3	355.5
	5.6	355.2
	5.7	355.1
C	5.9	354.9
	5.9	354.9
	6.2	354.6
Blue	6.0	354.8

1750 M		
Blue	6.2	354.6
	6.4	354.4
	6.2	354.6
C	6.1	354.7
	6.5	354.3
	6.3	354.5
White	6.4	354.4

1800 M		
White	7.4	353.4
	6.8	354.0
	6.9	353.9
C	7.3	353.5
	7.3	353.5
	7.1	353.7
Blue	7.2	353.6

1850 M		
Blue	8.4	352.4
	8.6	352.3
	8.5	352.3
C	8.2	352.6
	8.4	352.4
	8.0	352.8
White	8.3	352.5

	1900 M	
white	10.3	350.5
	10.2	350.6
	9.7	357.1
C	9.9	357.0
	9.9	357.0
	9.6	351.2
Elms	9.4	357.4

	1930 E	
Elms	10.2	350.6
	10.5	350.3
	10.8	350.0
C	11.1	349.7
	11.7	349.1
	12.6	348.2
white	13.5	347.3

	2000 M	
white	12.1	348.7
	11.7	349.1
	11.2	349.6
e	11.1	349.7
	11.5	349.7
	10.8	350.0
Elms	10.7	350.1

	2050 M	
Elms	10.6	350.2
	10.5	350.3
	10.5	350.3
C	10.5	350.3
	10.6	350.2
	11.0	349.8
white	11.0	349.8

2100' N		
N line	10.9	349.9
	10.8	350.0
	10.6	350.2
C	10.4	350.4
	10.5	350.3
	10.2	350.6
E line	9.6	351.2

North line Adams ave.

E line	9.9	350.9
	10.0	350.8
	10.6	350.2
C	10.2	350.6
	10.7	350.1
	10.2	350.6
N line	9.9	350.9

X section cliff street

H.I. 360.82

E line Panorama

POSTED
53

N line	6.2	354.6
	6.2	354.6
	6.5	354.3
C	6.7	354.1
	7.0	353.8
	7.3	353.5
S line	7.4	353.4

sect on AB see fig.

S line	7.0	350.8
	6.8	354.0
	6.7	354.1
C	6.6	354.2
	6.4	354.4
	6.2	354.6
N line	6.2	354.6

90' E. Sect A.B.

nlino

5.1 355.7

5.1 355.7

5.2 355.6

c

5.5 355.3

5.6 355.2

5.6 355.2

Solin

5.7 355.1

100' E

Solin

5.1 355.7

5.0 355.8

4.9 355.9

c

4.7 356.1

4.5 356.3

4.2 356.6

nlino

4.3 356.5

54

130' 4 E. (West this alley)

nlino

4.1 356.7

4.2 356.6

4.2 356.6

c

4.3 356.5

4.4 356.4

4.7 356.1

Solin

4.7 356.1

E. this alley

Solin

4.6 356.2

4.8 356.0

4.5 356.3

c

4.3 356.5

4.3 356.5

4.7 356.6

nlino

4.0 356.8

50' E alley

nlino	4.4	356.4
	4.5	356.3
	4.4	356.4
c	4.7	356.1
	4.9	355.9
	5.1	355.7
Solin	4.9	355.9

69.5 E (West Hill alley)

Solin	5.4	355.4
	5.4	355.4
	5.0	355.8
c	4.8	356.0
	4.7	356.1
	4.7	356.1
nlino	4.9	355.9

E Hill alley.

nlino	5.2	355.6
	5.2	355.6
	5.4	355.4
c	5.3	355.5
	5.4	355.4
	5.7	355.1
Solin	5.9	354.9

50' E. alley

Solin	7.4	353.4
	7.2	353.6
	6.9	353.9
c	6.8	354.0
	6.8	354.0
	5.9	354.9
nlino	5.6	355.2

36021

56

101.7 E. alley

N line	6.7	354.1
	6.9	354.7
	7.0	353.8
C	7.5	353.3
	7.9	352.9
	8.1	352.7
S line	8.4	352.4

West line Panorama.

S line	8.3	352.5
	7.8	353.0
	7.7	353.1
C	7.4	353.4
	7.1	353.7
	7.0	353.8
N line	6.7	354.1

950' N

W line	4.7	360.5
	4.6	360.6
	4.4	360.8
C	4.2	361.0
	4.9	360.3
	4.6	360.6
E line	4.9	360.3

1000' N

E line	5.0	360.2
	5.2	360.0
	5.0	360.2
C	5.2	360.0
	5.2	360.0
	5.7	359.5
W line	5.3	359.9

365.21		
1050 m		
White	6.9	358.3
	5.7	359.5
	5.8	359.4
C	5.7	359.5
	5.8	359.4
	5.8	359.4
E line	5.7	359.5
1100 m		
E line	5.7	359.5
	5.5	359.7
	5.2	360.0
C	5.8	359.4
	6.9	358.3
	8.3	356.9
White	10.3	354.9
1150 m		
White	7.5	357.7

365.21		
ab	7.2	358.0
1/4	6.5	358.7 57
C	6.4	358.8
	6.0	359.2
	5.7	359.5
E line	5.5	359.7
1200 m		
E line	5.3	359.9
C	5.1	360.1
1/4	5.0	360.2
C	5.1	360.1
1/4	5.4	359.8
C	5.4	359.8
White	5.8	359.4
1250 m		
White	5.6	359.6
	5.2	360.0
	5.5	359.7
C	5.6	359.6
	5.3	359.9
	5.4	359.8
E line	5.5	359.7

360.82

1300' N

White	2.2	358.6
	2.2	358.6
	2.5	358.3
C	2.0	358.8
	1.7	359.1
	2.0	358.8
Elvis	2.2	358.6

1350' N

Elvis	2.5	358.3
	2.5	358.3
	3.1	357.7
C	3.1	357.7
	3.8	357.0
	5.0	355.8
White	6.1	354.7

360.82

1400' N

White	5.8	355.0
	5.1	355.7
	4.0	356.8
C	3.5	357.3
	8.5	357.3
	2.9	357.9
Elvis	2.8	358.0

1450' N

Elvis	2.7	358.1
	2.6	358.2
	3.1	357.7
C	3.6	357.2
	3.9	356.9
	4.1	356.7
White	5.0	355.8

POSTED

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See page 50

	7.50	272.73		265.23
	11.32	270.95	13.10	259.63
5L Penn			1.2	269.75
25			1.4	269.32
50			1.6	269.36
70			1.75	269.2
90			2.1	268.85
110			2.75	268.2
130			3.75	267.2
150			4.95	266.0
170			6.15	264.8
200			7.95	263.0
220			9.15	261.8
240			10.35	260.6
260			11.55	259.4
270			12.15	258.9
290			12.85	258.1
310			13.2	257.75
330			13.35	257.6

7.45
63
1.45

59

350

→ 13.10 257.85

360

→ 12.85 258.1

390

→ 12.05 258.90

420

→ 11.25 259.70

440

2 260.23

57 Habel
23/107 Roman St. Wm - West
line grades -

Ben.	4.47	285.23	280.76
		↳ 5.98	279.25
		↳ 6.98	278.25
50		↳ 6.73	278.00
100		↳ 6.48	278.75
		↳ 6.23	279.0
200		↳ 5.98	279.25
		↳ 5.73	279.50
300		↳ 5.28	279.75
		↳ 4.68	280.50
		↳ 4.08	281.15
		↳ 3.11	282.12
		↳ 2.14	283.09
↳ 60: ↓		↳ 0.98	284.25

Georgia Park
Levels for Denver -

7.45

B.M. -	396	341.57	337.11
Bottom of Mt. Park St	1296	332.11	
Water table of House 3 end of ridge	557	335.56	
East Ch. Georgia St	806	233.01	

Levels on Blk 131 W.H.
1/6/07 1st alt
Darien
Millcreek

POSS

61

B.M. Bailed 7 El Cajon 4.21 344.29 340.05

T.P. 6.12 338.05 12.86 331.93

North of South Alley

El Cajon. 8.2 327.8

+35 5.5 332.5

+60 4.3 333.7

1+00 4.3 333.7

2+00 4.5 333.5

3+00 5.7 332.3

+37 Howard. 7.0 331.0

East and West Alley

Georgia 19.3 317.7

+35 16.4 321.6

1+00 9.0 329.0

+40 5.0 333.0

+60 3.5 334.5

T.P. 12.41 344.81 36.5 334.40

Grade of Minn. Blvd. Denver
Opposite Ch Blk 131
= 339.0

Grade of F.T. Av. of Howard
334.0

POSTED

344.81

2+35	9.0	335.8
+75	7.7	337.1
3+00	5.0	339.8
Cv Park Boulevard	2.1	342.7

Uniform slope to sewer in Univ. Boulevard

Levels on Centre St., Univ Ave.
to pt 300' South

62

Halsh
Dannan
1055-9
311.94

POSTED

301.44

Sidewalk str on Univ Ave.

Sh Univ	7.1	304.5
5	9.3	302.6
35	8.8	303.1
60	7.5	304.4
1	6.5	305.4
+50	6.3	305.6
2	6.8	305.1
+50	7.6	304.3
3	7.4	304.5
+50	8.7	303.2
4	9.5	302.4
+50	10.5	301.4
5	12.3	299.6

POSTED

189.63

100' n of Grapt. St

WL	15	188.1
bl	19	187.7
y	24	187.2
l	31	186.5
y	41	185.5
bl	45	185.1
Ed	48	184.8

125' n of Grapt.

Ed	39	185.7
bl	36	186.0
y	31	186.5
l	23	187.3
y	20	187.6
bl	27	187.2
WL	20	187.6

15

189.63

POSTED

64

150' n of Grapt. St

WL	31	07	185.9
bl	30		186.6
y	24		187.2
l	20		187.6
y	24		187.2
bl	31		186.5
Ed	20		186.3

175' n of Grapt.

Ed	28		186.8
bl	25		187.1
y	25		187.1
l	33		186.3
y	43		185.3
bl	49		184.7
WL	57		183.9

18963

	200	n of	Graph	
WL		9.0	180.6	
ll		75	182.1	
9		60	183.6	
6		58	183.8	
4		36	186.0	
ll		29	186.7	
EL		23	187.3	
TP	0.78	185.63	4.78	189.85
		225'	n of	Graph
EL		00	185.6	
ll		1.0	184.6	
"		25	183.1	
6		41	181.5	
4		53	180.3	
ll		72	178.4	
WL		84	187.2	

18563

65

	250	n of	Graph	
WL		133	172.3	
ll		122	173.4	
4		98	175.8	
6		72	178.4	
4		46	181.0	
ll		36	182.0	
EL		16	184.0	
		275'	n of	Graph
EL		59	181.7	
ll		59	179.7	
"		79	177.7	
6		120	173.6	
4	200' =	84	177.2	How char
EL		84	177.2	
ll		106	175.0	
4		136	172.0	
		146		

18563

POSTED

66

TP. 100 17538 11.5 17438

275' n of base

W 1/4 34 1720

W 1/2 82 167.8

W 2 11.0 164.4

290' n of base

W 2 15.4 160.0

bl 12.8 162.6

4 11.0 164.4

b 5.0 170.4

300' n - S2 of Hamilton

W 2 11.0 164.4

bl 9.0 166.4

4 7.6 167.8

b 5.0 170.4

81 Hatch Cross section
 1/3/07 Dorman Front St POSTED
 Williams Laurel - Maple

POSTED
 21384 67

	5.11	211.63	206.52	SE Camb. (Cef. tach)	Front - Laurel
10M					
	NH Laurel				
				c	6.4 207.4
W	5.5	206.1		1/4	6.9 206.9
+ 6'	6.5	205.1		cb	7.6 206.2
cb	3.8	205.8		10	8.1 205.7
1/4	5.0	206.6		W	7.5 206.3
c	4.2	207.4			
+ 6'	3.2	208.4			
1/4	2.9	208.7		W	7.5 206.3
cb	2.4	209.2		cb	7.3 206.5
E	2.0	209.6		1/2	4.6 207.2
				c	5.6 208.2
T.P	3.81	213.84	160	1/4	5.1 208.7
	25' N.			cb	4.4 209.4
E	1.6	212.2		E	1.3 212.5
+ 8'	3.1	210.7			
cb	3.8	210.0			
1/4	5.2	208.6			

50' N

213.84

75' N

E	0.8	213.0
+8'	3.3	210.5
cb	4.3	209.5
1/4	5.1	208.7
c	5.6	208.2
1/4	6.7	207.1
cb.	7.1	206.7
w	7.8	206.5

100' N

w	7.0	206.8
cb	6.9	206.9
1/4	6.3	207.5
c	5.4	208.4
1/4	4.8	209.0
cb.	4.0	209.8
E	0.4	213.4

213.84

125' N

E	0.6	213.2
cb	3.5	210.3
1/4	4.3	209.5
c	5.0	208.8
1/4	5.8	208.0
cb.	6.5	207.3
w	6.9	206.9

150' N

w	6.5	207.3
cb.	6.1	207.7
1/4	5.2	208.6
c	4.3	209.5
1/4	4.1	209.7
cb	3.9	210.9
E	0.7	213.1

213.84

175' N

E	N	212.7
+4'	2.4	211.4
cb.	3.0	210.8
1/4	3.3	210.5
C	3.9	209.9
1/4	5.3	208.5
cb.	5.9	207.9
VV	6.3	207.5

200' N

W	7.3	206.5
cb.	7.4	206.8
1/4	6.9	206.9
C	6.8	207.0
+4	4.4	209.5
1/4	3.1	210.7
cb.	2.0	210.8

213.8

69

+10

2.4 211.4

E

1.0 212.8

225' N

E	6.9	212.9
+4	1.9	211.9
cb.	2.7	211.1
1/4	2.9	210.9
C	6.6	207.2
1/4	7.5	206.3
cb.	7.8	206.0
W	7.5	206.3

250' N

W	7.5	206.3
cb.	7.5	206.3
1/4	7.5	206.3
C	6.7	207.1
+3	5.1	208.7

213.89

1/4	3.9	209.9
cb.	2.8	211.0
+10	2.1	211.7
E	1.1	212.7

575' N

E	0.9	213.0
+3	1.8	212.0
cb.	2.6	211.2
1/4	3.8	210.0
C	6.3	207.5
1/4	7.1	206.7
cb.	7.3	206.5
W	7.0	206.8

500' N = Sh. Mafle -

W	6.8	207.0
cb.	7.3	206.5
1/4	6.7	207.1

70

213.89

MT.		
C	5.65	209.1
1/4	3.6	210.2
cb.	2.2	211.6
E	0.4	213.4

Sever levels 5' west of East curb
 of Park Boulevard Elcapm to Howard

N.E. 4.84 344.92 340.08 B.M.
 Grade 335.89

0+00	So. line Elcapm	4.4	340.5	335.89
+50		4.5	340.4	
1+00		4.9	340.0	
+50		5.3	339.6	
2+00		5.6	339.3	
+50		5.9	339.0	
3+00		5.9	339.0	
+37	No. line Howard	6.0	338.9	
+77	Center "	6.3	338.6	334.0

Levels on Center Howard

E. line Park Boulevard	7.6	337.3
50' East	9.7	335.2
80' "	10.9	334.0
100' "	11.9	333.0

Center Howard to 5' So of F.T.

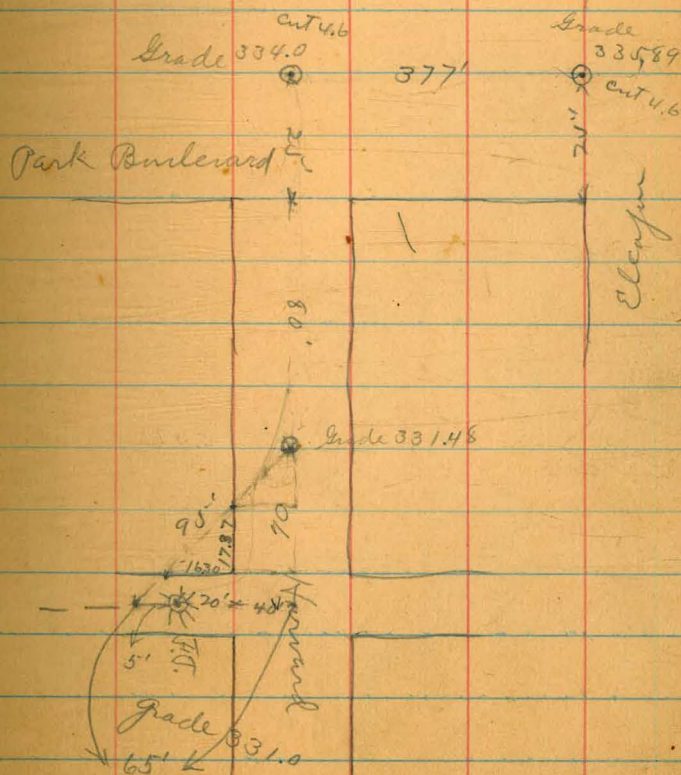
0+00 Center Howard	10.9	334.0
+20	12.4	332.5

N.I. 344.92

POSTED

+25		11.3	333.6
+95	5' So. of F.T.	10.8	334.1

71
 Grades per cent



Levels for Sewer at
Albano sand to maple

5.40 186.31 180.91

82.15
75.70
6.45

POSTED

10.60 175.70

7.20 178.11

4.16 182.15

180.91
Sewer
at
maple
175.70
178.11
182.15

79.11
75.70
3.41

179.11
2.75
176.36
175.70
0.66

227 183.18 180.91

282.15
370
253.85
98.3
250.92

255.95 HT 13.00 170.2

10.83 175.42

10.01 175.34

180.91
Sewer
at
maple

M.H. El. bottom of waterway 175.42

182.10
175.70
6.40

179.11
175.7
3.41

POSTED

170.14

175.70 El of bottom
182.15 " " top

level

170.14

175.11 El of shut cent. Sd Maple

maple

170.14

Kalmin

170.35 El of bottom Sd Kalmin
at Albano

X section Fruit, maple

POSTED

8.78 H.I.
218.57

20909 B.M.

N. line maple

W. line

11.4 207.2

11.3 207.3

11.1 207.5

C

10.5 208.1

9.7 208.9

8.7 209.9

E line

8.3 210.3

2' North

E line

2.6 216.0

4.0 214.2

5.5 213.1

C

7.6 211.0

9.8 208.8

10.9 207.7

W. line

11.7 206.9

225' North.

Oct. 11 1907

H.I.
218.57

Childs
Evens 73
Barber

25' N.

W. line

12.1 206.5

W. line + 3'
cb

13.2 205.4

12.7 205.9

9.6 209.0

C

7.1 211.5

4.7 213.9

3.3 215.3

E line

2.0 216.6

50' N.

E line

1.3 217.3

2.9 215.7

4.6 214.0

C

7.2 211.4

10.2 208.4

12.8 205.8

cb + 10'
W. line

13.8 204.8

12.2 206.4

218.57

75' N.

White	12.6	206.0
+7'	14.2	204.4
cb	12.6	206.0

10.7 207.9

7.0 211.6

4.6 214.0

2.7 215.9

White	1.2	217.4
-------	-----	-------

100' N

White	0.8	217.8
-------	-----	-------

3.1 215.5

5.4 213.2

C	7.3	211.3
---	-----	-------

9.7 208.9

12.6 206.0

cb+7'	14.8	203.8
White	12.6	206.0

12.6 206.0

218.57

125' N

74

White	12.9	205.7
+9'	14.9	203.7
cb	12.8	205.8

9.2 209.4

6.6 212.0

5.1 213.5

POSTED

2.5 216.1

White	0.5	218.1
-------	-----	-------

150' N

White	0.6	218.0
-------	-----	-------

2.8 215.8

4.1 214.6

C	7.1	211.5
---	-----	-------

9.8 208.8

13.2 205.4

cb+7'	14.8	203.8
White	13.2	205.4

13.2 205.4

218.57

175' N

white 15.9 202.7

13.4 205.2

10.3 208.3

c 7.7 210.9

5.1 213.5

2.8 215.8

g line 1.4 217.2

200' N

g line 4.4 214.2

4.9 213.9

6.6 212.0

c 9.9 208.7

11.8 206.8

14.3 204.3

white 17.4 201.2

218.57

225' N

white 19.3 199.3

15.6 203.0

15.0 203.6

POSTED

c 13.5 205.1

13.9 204.7

14.3 204.3

g line 13.3 205.3

75

10/29
W. Williams
Emery

Sewer
Albatross

Laurel

Maple

100.292
21882

11/1/07
W. Williams
Emery

76

Bm 493 185.84 180.91

M N Laurel 175.40

NL " 4.16 181.68 175.52

50 POSTED 4.57 181.21 175.66

100 5.02 180.82 175.81

150 5.37 180.41 175.96

200 5.81 180.00 176.11

250 6.11 179.73 176.25

300-3h Maple 6.68 179.16 176.10

Bm 0.585 207.055 206.52 Front-lund

0.175 194.575 194.405

4.80 186.62 181.830

5.72 183.90

Bm 462 185.54 180.91

✓ 10.14 175.40

✓ 10.02 175.52

✓ 9.88 175.66

✓ 9.73 175.81

✓ 9.58 175.96

✓ 9.43 176.11

✓ 9.29 176.25

✓ 9.14 176.40

POSTED Sewer.
Maple St. from Albatross
100 E.

Ground Fl

$\frac{3}{16}$ Hatch
 $\frac{16}{15}$ Williams
 $\frac{15}{15}$ Emery
C

77

BM 596 212.98 206.52

SE Front Laurel Tack in Curb-

TP 0.27 209.82 12.73 199.75

FF. 7.14 192.85 187.0 C 6.0

TP 0.78 187.84 12.96 187.06

+50 1.86 185.98 181.9 C A.1

POSTED

100 - E. Albatross 8.15 179.69 176.80 C E.9

+22 7.68 180.16 176.65 C B.5

+42 8.12 179.72 176.52 C 3.2

+61 SE Maple. Bottom of Pipe 11.50 176.34 176.40

78

03

175.40
118
175.518 -
1.27
175.665-50
175.812-1
175.957-
176.106-2
176.253
176.400 -

260.53
3.5
260.15
10.77
270.93
282.74 10th av. NW
290.71 Vermont " NE
296.40 Archimed " 125th W

15-16 200.5
93.8
4.6
75
15.7 = 53.1
14.2 = 56.6
66.022
179
176.93
2.55
260.73

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

1000 1340
680
3200-297
3060
1480
1360
Return to City Engineers Office
City Hall, San Diego, Cal.

180.91 SW Laurel + Allstross
209.59 SE Cor 7th Post St + West Laurel Street

176.40 N
179
3.75
176.25
175.4
85

Return to City Engineers Office
City Hall, San Diego, Cal.
TRAVERSE TABLE FOR TRANSIT BOOK.
From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.02	96.81	25.04	96.70	25.46	74
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	73
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.52	72
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	71
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	70
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	69
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	68
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	67
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	66
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	65
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	64
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	63
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	62
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	61
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	60
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							

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