

F.B.
830

880

FIELD

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TRAVERSE TABLE FOR TRANSIT BOOK.
From 1° to 90° for a distance of 100.

MICROFILMED

Degrees.	DEGREES.		½ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
	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	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.52	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							

FROM
Loring's Book Store

X sec. Oregon St. from Univ. to Park.

429/12
Hatch
Moore
Holl

101

1

Mon. NE Oregon and Univ.

B21 330

342.15

338 P48

51 Univ.

W	2.9	339.3
	2.8	339.4
	2.5	339.2
C	2.1	340.1
	1.7	340.5
	1.5	340.7
E	1.3	340.9
	25'S	
E	2.3	339.9
	2.5	339.7
	2.5	339.7
C	3.1	339.1
	3.3	338.9
	2.9	339.2
W	2.9	339.2
	50'S	
W	5.2	339.0
	4.9	339.3
	5.1	339.1
C	4.8	339.4
	5.0	339.2
	4.1	338.1
E	3.9	338.3

342.15

75 S

E	6.1	336.1
	6.0	336.2
	6.8	335.4
C	6.9	335.3
	7.4	334.8
	7.3	334.9
W	7.7	334.5
	100 S	
N 5° W	12.6	329.6
W	12.9	329.3
	12.9	329.3
	12.7	329.5
C	11.5	330.7
	9.7	332.5
	8.3	333.9
E	9.4	332.8
10° E	6.7	335.5
	115 S	
10° E	6.9	335.3
E	8.5	333.7
	10.0	332.2
	11.3	330.9
C	12.0	330.2
	13.1	329.1
	14.2	328.0
W	15.0	327.2
15° W	16.2	326.0

342.15

125 S

111 2

N 5° W	14.4	327.8
W	12.8	329.4
	11.8	330.4
	10.9	331.3
C	9.6	332.6
	8.6	333.6
	8.2	334.0
E	7.6	334.6
10° E	6.3	335.9
	150 S	
E	4.1	338.1
C	5.3	336.9
	5.4	336.8
C	6.2	336.0
	7.0	335.2
	7.9	334.3
W	9.1	333.1
15° W	10.4	331.8
	175 S	
W	6.3	335.9
	5.9	336.3
	5.2	337.0
C	4.5	337.7
	4.1	338.1
	3.5	338.7
E	3.1	339.1

342.15
200 S

E	2.2	340.9
	2.6	339.6
	3.2	339.0
o	4.1	338.1
	4.6	337.6
W	4.9	337.3
	5.1	337.1

225 S

W	5.0	337.2
cb	4.9	337.8
1/2	3.8	338.4
o	3.9	338.9
1/2	2.8	339.4
TP	6.44	346.12
cb	2.47	339.68
	6.3	339.8
E	5.9	340.2

250 S = N h. Wightman

E	5.3	340.8
	5.7	340.7
	6.2	339.9
c	6.0	340.1
	6.7	339.4
	7.6	338.5
W	8.5	337.6

346.12

N ob.

W	8.0	338.1
	7.5	338.7
	7.1	339.0
c	6.5	339.7
	6.3	339.8
	5.6	340.5
E	5.1	341.0

N 1/4

E	5.0	341.1
	5.4	340.7
	6.3	339.8
c	6.6	339.5
	6.8	339.3
	7.3	338.8
W	7.7	338.4

CR

W	7.4	338.7
	7.0	339.1
	6.5	339.6
c	6.1	340.0
	5.7	340.4
	5.1	341.0
E	5.1	341.0

S 1/4

E	5.0	341.1
	5.2	340.9

3

34612

C	55	340.6
	58	340.3
	61	340.0
W	67	339.4
	72	338.9
W	5cb	
	6.8	339.3
	6.5	339.6
	6.1	340.0
C	5.5	340.6
	5.2	340.9
	4.9	341.2
E	4.8	341.3
	5h. Wightman	
E	4.5	341.6
	4.9	341.2
	5.1	341.0
C	5.3	340.8
	5.9	340.2
	6.3	339.8
W	6.5	339.6
	25's	
W	5.8	340.3
	5.5	340.6
	5.2	340.9
C	5.0	341.1
	4.8	341.3

34612

	4.3	341.8
E	4.1	342.0
	50's	
E	3.9	342.2
	4.0	342.1
	4.2	341.9
C	4.6	341.5
	4.8	341.3
	5.4	340.7
W	5.3	340.8
	75's	
W	5.3	340.8
	4.9	341.2
	4.6	341.5
C	4.2	341.9
	4.1	342.0
	4.0	342.1
E	3.6	342.5
	100's	
E	3.4	342.7
	3.8	342.3
	4.1	342.0
C	4.3	341.8
	4.7	341.4
	5.0	341.1
W	5.1	341.0

34612
125' S

W	4.6	341.5
	4.6	341.5
	4.4	341.7
C	4.1	342.0
	4.0	342.1
	3.8	342.3
E	3.5	342.6
	150' S	
E	3.5	342.6
	3.7	342.4
	3.9	342.2
C	4.4	341.7
	4.3	341.8
	4.8	341.3
W	5.0	341.1
	175' S	
W	5.0	341.1
	4.7	341.4
	4.3	341.8
C	3.8	342.3
	3.8	342.3
	3.8	342.3
E	3.7	342.4
	200' S	
E	3.8	342.3
	3.8	342.3

34612

	4.4	341.7
P	4.5	341.6
	4.6	341.5
	4.8	341.3
W	5.0	341.1
	225' S	
E	5.1	341.0
	4.8	341.3
	4.6	341.5
	4.1	342.1
	3.8	342.3
	3.9	342.2
E	3.8	342.3
	300' S	
E	3.9	342.2
	4.3	341.8
	4.2	341.9
C	4.5	341.6
	4.8	341.3
	5.1	341.0
W	5.4	340.7
	275' S	
W	5.4	340.7
	5.1	341.0
	4.8	341.3
	4.4	341.7
C	4.3	341.8

34612

		4,2	341.9
E		3,9	342.2
	300's		
E		4,0	342.1
		4,3	341.8
		4,5	341.6
C		4,4	341.7
		5,0	341.1
		5,2	340.9
N		5,6	340.5
	325's		
N		4,6	341.5
		5,2	340.9
		5,3	340.8
C		5,3	340.8
		4,7	341.4
		4,5	341.6
E		4,1	342.0
	350's		
E		4,4	341.7
		4,5	341.6
		5,1	341.0
C		5,2	340.9
		5,2	340.9
		5,5	340.6
W		6,0	340.7

34612

110 6

		575's	
N		6,3	3398
		6,0	340.1
		5,7	340.4
C		5,6	340.5
		5,0	341.1
		4,7	341.4
E		4,3	341.8
TD	185	343.52	498
		400's	
			341.64
E		1,9	341.6
		2,3	341.2
		2,6	340.9
C		2,7	340.8
		3,1	340.4
		3,6	339.9
W		4,0	339.6
	425's		
W		4,4	339.1
		3,7	339.8
		3,5	340.0
C		3,0	340.6
		2,9	340.6
		2,4	341.1
E		1,8	341.7

343.52

450'S

E 2.1 341.4

2.5 341.0

2.6 340.9

C 3.0 340.5

3.6 339.9

4.3 339.2

W 4.3 339.2

975'S

W 4.5 339.0

4.2 339.3

3.8 339.7

C 3.2 340.3

2.9 340.6

2.7 340.8

E 2.4 341.1

500'S

E 2.6 340.9

3.1 340.4

3.3 340.2

C 3.6 339.9

4.0 339.5

4.1 339.4

W 4.6 338.9

525'S

W 5.0 338.5

4.2 339.3

343.52

3.6 339.9

3.4 340.1

2.9 340.6

2.8 340.7

E 2.4 341.1

550'S

E 2.2 341.3

2.7 340.8

3.1 340.4

3.6 339.9

4.3 339.2

4.8 338.7

W 4.9 338.6

575'S

W 4.7 338.8

4.0 339.5

4.0 339.5

3.2 340.1

2.9 340.6

2.8 340.7

2.4 341.1

600'S = N.H. Landis

E 2.4 341.1

2.6 340.9

2.6 340.9

3.3 340.2

3.4 340.1

343.52

	3.8	339.7
W	4.6	338.9
	4.8	338.7
	4.3	339.2
	3.8	339.7
C	3.4	340.1
	2.8	340.7
	2.5	341.0
F	2.4	341.1
	3.5	341.0
E	2.6	340.9
	2.9	340.4
C	3.4	340.1
	3.8	339.7
	4.5	339.0
W	5.0	338.5
	4.9	338.6
	4.3	339.2
	3.7	339.8
C	3.4	340.1
	3.2	340.3
	2.6	340.9
E	2.3	341.2

vcb.

W/2

v

8

343.52

5/4

E	2.4	341.2
	2.8	340.7
	3.2	340.3
C	3.7	339.8
	3.8	339.7
	4.2	339.3
W	4.9	339.1
	4.5	339.0
	4.4	339.1
	4.2	339.3
C	3.9	339.6
	3.6	339.9
	3.2	340.3
E	2.5	341.0
	2.4	341.1
	2.5	341.0
	2.9	340.6
C	3.7	340.8
	4.2	339.3
	4.6	338.9
W	4.6	338.9
	5.2	338.3
W	4.8	338.7

scb.

Sh. Landis

25.5

34352

	46	338.9
C	43	339.2
	39	340.1
	34	340.1
E	32	340.3
	50's	
E	34	340.1
	31	340.4
	36	339.9
C	45	339.0
	53	338.2
	56	337.9
W	61	337.4
	70's	
W	73	336.2
	64	337.1
	59	337.6
Q	52	338.3
	49	338.6
	48	338.7
E	40	339.5
	100's	
F	48	338.7
	56	337.9
	59	337.6
C	61	337.4
	68	336.7

34352

	76	335.9
W	81	335.4
	125's	
W	92	334.3
	88	334.7
	72	336.3
Q	65	337.0
	65	337.0
	63	337.2
E	57	337.8
	150's	
F	46	338.9
	56	337.9
	67	336.8
Q	72	336.3
	82	335.3
	91	334.4
W	91	334.4
	175's	
W	103	333.2
	96	333.9
	83	335.2
C	75	336.0
	72	336.3
	63	337.2
E	55	338.0

343.52

300's

E	6.1	3324
	6.8	336.7
	6.8	336.7
C	7.0	336.5
	8.2	335.3
	9.4	334.1
W	10.3	332.2
		225's
W	10.7	332.8
	10.0	333.5
	8.9	334.6
C	8.5	335.0
	7.8	335.7
	6.7	336.8
E	5.7	332.8
		200's
E	5.8	332.7
	6.7	336.8
	5.0	335.5
C	8.9	334.6
	8.7	334.8
	9.3	334.2
W	10.1	333.4
		575's
W	11.3	332.2
	10.2	333.3

343.52

	88	3347
C	84	3351
	83	3352
	7.7	3358
E	7.2	3363
		300's
E	7.6	3359
	8.2	3353
	9.2	3343
C	9.6	3339
	10.3	3322
	11.0	3325
W	10.6	3329
		325's
W	11.8	3317
	10.7	3328
	10.5	3330
C	10.0	3335
	8.9	3348
	8.9	3346
E	8.6	3349
TP 0.58	8.64	334.88
		350's
E	1.1	3344
	0.4	3351
	0.8	3342
C	1.9	3336

330.46

29 332.6

32 332.3

W

4.1 331.4

375's

W

4.4 331.1

3.7 331.8

2.8 332.7

C

2.5 333.0

2.5 333.0

2.5 333.0

E

1.7 333.8

400's

E

1.8 333.7

2.8 332.7

2.5 333.0

C

2.5 333.0

3.0 332.5

3.7 331.8

W

4.1 331.4

425's

W

4.8 330.7

4.2 331.3

2.7 332.8

C

2.2 333.3

2.7 332.8

3.2 332.3

E

2.4 333.1

333.46

450's

E

2.1 333.4

3.6 331.9

3.0 332.5

C

2.8 332.7

3.4 333.1

W

4.4 331.1

5.0 330.5

475's

W

5.5 330.0

5.3 330.2

4.5 331.0

C

4.1 331.4

4.5 331.0

4.3 331.2

E

3.2 332.3

500's

E

4.4 331.1

4.7 330.8

4.2 331.3

C

4.5 331.0

5.1 330.4

5.6 329.9

W

6.1 329.4

525's

W

6.1 329.4

5.8 329.7

11

33546

		5.3	330.2
C		4.4	331.1
		4.4	331.1
		5.6	329.9
F		5.3	330.2
	550's		
E		5.3	330.2
		6.3	329.2
		6.5	329.0
C		6.8	328.7
		7.3	328.2
		7.5	328.0
W		7.7	327.8
	575's		
W		8.1	327.4
		7.7	327.8
		7.9	328.1
C		7.3	328.2
		6.7	328.8
		6.8	329.7
F		5.5	329.0
	600's =		
		Nh. Dwight St.	
E		7.2	328.3
		7.7	327.8
		7.6	327.9
C		7.4	328.1
		7.9	327.6

33546

		8.7	326.8
W		9.18	326.28
	N cb		
W		9.2	326.3
		9.0	326.5
		8.7	326.8
C		8.4	327.1
		8.5	327.0
		8.2	327.3
E		7.6	327.9
	N 1/2		
E		7.3	328.2
		8.6	326.9
		9.0	326.5
C		9.1	326.4
		9.2	326.3
		9.4	326.1
W		9.5	326.0
	CR	7	
W		9.8	325.9
		9.6	325.9
		9.5	326.0
C		9.4	326.1
		9.3	326.2
		8.6	326.9
E		7.5	328.0

33076

5 1/2

E		8,2	322.3
		8,8	326.7
		9,6	325.9
C		9,8	325.7
		9,8	325.7
		10,2	325.3
W		10,6	324.9
	5 ch		
W		11,4	324.1
		10,9	324.6
		10,4	325.1
C		10,1	325.4
		10,0	325.5
		9,9	325.6
E		9,1	326.4
	5h Dwight St		
F		9,7	325.8
		10,6	324.9
		10,4	325.1
C		10,3	325.2
		10,9	324.6
		11,6	323.9
W	303	12.24	323.72
	25's		
W		4,4	321.9
		4,0	322.3

32625

		3,6	322.7
C		3,1	323.2
		2,9	323.4
		2,6	323.7
E		2,2	324.1
	50's		
E		3,4	322.9
		4,0	322.3
		4,5	321.8
C		4,9	320.4
		5,5	320.8
		5,8	320.5
W		6,7	319.6
10' W		7,3	319.0
	75's		
		11,6	314.7
		10,5	314.8
		9,0	319.3
		7,7	318.6
C		6,9	319.4
		6,1	320.2
		5,0	321.3
E		4,6	321.7
	90's		
E		5,5	320.8
		6,4	319.9
		7,8	318.5

	326.25		
C		9.1	317.2
		10.8	315.5
		11.4	314.9
W		12.0	314.3
15 W		13.5	312.8
	100's		
15 W		11.6	314.7
W		10.8	315.5
		10.5	315.8
		9.6	316.7
C		8.5	317.8
		7.8	318.5
		7.6	318.7
E		6.1	320.2
	125's		
E		4.7	321.6
		5.0	321.3
		5.4	320.9
C		6.3	320.0
		6.8	319.5
		7.7	318.6
W		8.4	317.9
10 W		9.0	317.3
	150's		
W		7.7	318.6
		6.9	319.4
		6.4	319.9
		6.0	320.3
C		5.2	321.1

	326.25		
		4.8	321.5
		3.9	322.4
E		2.7	323.6
	175's		
E		2.7	323.6
		2.5	323.8
		2.5	323.8
C		3.7	322.6
		4.9	321.4
		5.2	321.1
W		5.2	321.1
	200's		
W		4.7	321.6
		4.6	321.7
		4.0	322.3
C		3.5	322.8
		3.7	323.6
		2.1	324.2
E		1.9	324.4
	225's		
E		1.0	325.3
		0.9	325.4
		0.8	325.5
C		1.3	325.0
		2.8	323.5
		3.8	322.5
W		1.4	323.9

326.25

260's

W		3,3	323.0
		3,3	323.0
		2,6	323.7
C		1,9	324.4
		1,6	324.7
		1,4	324.9
E		0,9	325.4
T.P.	577	331.73	0,29
		275's	325.96
E		4,9	326.8
		5,4	326.3
		6,2	325.5
C		6,7	325.6
		6,3	325.4
		7,2	324.5
W		8,6	323.1
	300's		
W		7,7	324.0
		7,1	324.6
		6,4	325.3
C		5,9	325.8
		5,5	326.2
		5,4	326.3
E		5,0	326.7

331.73

325's

E		4,3	327.4
		4,6	327.1
		5,0	326.7
		5,4	326.3
		6,1	325.6
		6,8	324.9
W		6,8	324.9
	350's		
W		5,7	326.0
		5,8	325.9
		5,7	326.0
E		5,1	326.6
		4,2	327.5
		4,0	327.7
E		3,9	327.8
	375's		
E		4,0	327.7
		4,1	327.6
		4,3	327.4
C		4,7	327.0
		5,6	326.1
		5,6	326.1
W		6,0	325.7
	400's		
W		5,9	325.8
		5,1	326.6

331,73

5755

E	5,2	326.5
	5,4	326.3
	6,1	325.4
Q	6,5	325.2
	6,6	325.1
	7,0	324.7
W	7,0	324.7
	600's = NA Myrtle	
W	6,4	325.3
	5,5	326.2
	5,1	326.4
Q	4,9	326.8
	5,5	326.2
	5,5	326.2
E	5,3	326.4
	n/cb	
E	5,3	326.4
	5,5	326.2
	5,2	326.5
C	5,0	326.7
	4,7	327.0
	5,3	326.4
W	6,4	325.3
	n/a	
W	6,2	325.5
	5,4	326.3

17

331,73

	5,1	326.6
Q	4,9	326.8
	5,0	326.7
	5,0	326.7
E	5,2	326.5
	cb	
E	5,1	326.6
	5,3	326.4
	5,0	326.7
	5,2	326.5
	5,9	325.8
	6,0	325.7
W	6,4	325.3
	s/a	
W	5,9	325.8
	6,0	325.7
	5,8	325.9
C	5,7	326.0
	5,5	326.2
	5,3	326.4
E	4,9	326.8
	s/cb	
E	4,5	327.2
	5,2	326.5
	5,5	326.2
C	5,6	326.1
	5,7	326.0

331.73

W	5.8	325.9
	5.7	326.0

Sh. Myrtle

W	5.60	326.1
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	5.7	326.0
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C	5.4	326.3
---	-----	-------

	5.6	326.1
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	5.6	326.1
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	4.9	326.8
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E	4.33	331.72	4.34	328.39
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25'S

	3.5	328.2
--	-----	-------

	4.1	322.6
--	-----	-------

C	5.3	326.4
---	-----	-------

	5.3	326.4
--	-----	-------

	5.3	326.4
--	-----	-------

	5.6	326.2
--	-----	-------

W	5.6	326.2
---	-----	-------

50'S

	5.3	326.4
--	-----	-------

	5.2	326.5
--	-----	-------

C	5.0	326.7
---	-----	-------

	4.9	326.8
--	-----	-------

	4.7	327.0
--	-----	-------

	4.7	327.0
--	-----	-------

E	4.8	326.9
---	-----	-------

331.72

75'S

F	4.3	327.4
---	-----	-------

	4.6	327.1
--	-----	-------

	4.5	327.2
--	-----	-------

C	4.8	326.9
---	-----	-------

	4.9	326.8
--	-----	-------

	4.8	326.9
--	-----	-------

W	4.9	326.8
---	-----	-------

700'S

W	4.9	326.8
---	-----	-------

	4.6	327.1
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	4.6	327.1
--	-----	-------

C	4.8	326.9
---	-----	-------

	4.8	326.9
--	-----	-------

	4.7	327.0
--	-----	-------

E	4.6	327.1
---	-----	-------

125'S

E	4.2	327.5
---	-----	-------

	4.4	327.3
--	-----	-------

	4.6	327.1
--	-----	-------

C	4.5	327.2
---	-----	-------

	4.3	327.4
--	-----	-------

	4.2	327.5
--	-----	-------

W	5.1	326.6
---	-----	-------

150'S

W	5.4	326.3
---	-----	-------

	4.8	326.9
--	-----	-------

331.72

	45	322.2
C	44	322.3
	46	322.1
	49	322.3
E	43	322.4
	175's	
F	51	326.6
	49	326.8
	50	326.7
O	47	327.0
	47	327.0
	51	326.6
W	58	325.9
	200's	
W	62	325.5
	61	325.6
	68	325.9
C	57	326.0
	57	326.0
	49	326.8
F	46	327.1
	225's	
E	57	326.0
	58	325.9
	57	326.0
C	46	327.1
	50	326.7

331.72

19

	62	323.5
W	64	323.3
	250's	
W	70	324.7
	70	324.7
	66	325.1
C	62	325.5
	62	325.5
	62	325.5
E	62	325.5
	54	326.3
	275's	
E	61	325.6
	64	325.3
	63	325.4
C	62	325.7
	68	324.9
	65	325.2
W	63	325.4
	300's	
W	75	324.2
	68	324.9
	72	324.5
C	72	324.5
	71	324.6
	68	324.9
E	64	325.3

331.72

325.6

F	6.0	325.7
	6.8	324.9
	7.2	324.5
C	7.4	324.3
	7.4	324.3
	7.6	324.1
W	8.4	323.3
	359.5 = Park line	
W	8.7	323.0
	8.4	323.3
	7.6	324.1
C	7.4	324.3
	6.9	324.8
	6.4	325.3
E	6.55	325.17

5' H. Levels on Curb on East
 1/2 M. from 18" to 25"

BM SW Cor- 18" E 595		90.88		84.90
	3			
EL 18"	Ret. 585	85.03		
	591	84.97		
25	582	85.06		
50	565	85.23		
75	552	85.36		
100	543	85.45		
125	541	85.47		
150	522	85.66		
175	519	85.69	10W	
	522	85.65	5.12	85.76
200-WH 19"	Ret. 316	85.78	5.00	85.88
	Ret. 390	86.98	2.12	86.76
EL 19"	358	87.00	4.12	86.76
25			3.03	87.85
50			2.14	88.71
75			1.28	89.60
100			0.34	90.54
110		100.72	0.34	90.84
125			9.37	91.35
150			8.52	92.20
175			7.69	93.03
	650	93.92	6.80	93.92
200-WH 20"	Ret. 632	93.90	Ret. 676	93.96
	Ret. 472	95.90	4.78	95.94
EL 20"	457	95.95	4.81	95.91
25'	258	98.14	2.53	98.19
50	0.21	100.51	0.16	100.56
75				
100	1294	113.10	0.56	100.16
75	10.31	102.79	10.22	102.89
100	7.95	105.15	7.85	105.25

		113.10		
128	541	107.69	N	
125			560	107.50
140	344	109.66	75	
175	112	111.98	75	
TP	1228	125.32	006	113.04
	1090	114.42	1039	114.43
200 - WH 21	Ret 1090	114.42	1090	114.42
	Ret 882	116.50	Ret 885	116.47
EL 21 ^s	880	116.52	880	116.52
25	637	118.95		
50	381	121.51	109	
75	130	124.02		
TP	1262	137.75	219	125.13
100	1121	126.54	1122	126.53
125	867	129.08	869	129.06
150	620	131.55	616	131.59
175	377	133.98	380	133.95
	125	136.50	187	136.38
200 = WH 22	Ret 135	136.40	Ret 131	136.44
TP	1244	149.78	241	137.39
	Ret 1140		Ret 1186	138.42
EL 22	1137	138.41	1136	138.42
25	891	140.87	884	140.92
50	654	143.24	644	143.34
75	422	145.56	412	145.66
100	180	147.98	181	147.97
TP	1281	162.39	020	149.58
125	1202	150.37	1201	150.38
150	868	152.71	963	152.76
175	739	155.00	736	155.03
	502	157.37	502	157.37
200 = WH 23	Ret 499	157.40	Ret 502	157.37

		162.39		
EH 22	Ref 363 345	158.76 158.95	Ref 343 347	158.96 158.92
35	160	160.79	162	160.77
T.P.	1270	174.21	088	161.57
50	1160	162.61	11.67	162.54
75	976	164.45	9.79	164.42
100	797	166.24	7.97	166.24
125	613	168.08	6.19	168.07
150 = W.L. 24	426 Ref 424	169.95 169.97	4.23 Ref 416	169.98 170.05
EH 24	Ref 290 237	171.31 171.34	Ref 271 268	171.50 171.53
35	176	172.45	162	172.59
50	0.65	173.56	0.67	173.54
T.P.	1258	185.85	094	173.27
64			11.60	174.25
75	1110	174.75	11.00	174.81
83			10.87	174.98
100	1005	175.80	10.21	175.64
125	903	176.82		
150	800	177.86	10.00	
175	693	178.92		
200	588	179.97	5.82	180.03
225	537	180.48	5.42	180.43
250	493	180.92	4.89	180.96
275	443	181.42	4.42	181.43
300	393	181.92	3.89	181.96
325	339	182.46	3.48	182.37
350	281	183.04	2.90	182.95
375	232	183.53	2.44	183.41
400	180	184.05	1.98	183.87
425	134	184.51	1.40	184.45

One raised and forced out in
 the street about 5 weeks by roots
 of tree

		185.55		
450	0.81	185.04	0.80	185.05
475	1.10	184.75	0.93	184.92
500	1.42	184.43	1.03	184.82
525	1.63	184.22	1.18	184.67
550	1.90	183.95	1.22	184.63
575	2.15	183.70	1.30	184.55
600	2.42	183.42	1.35	184.30

Section of Granada St South line Redwood to North line of Nutmeg,
60' wide 10' Curbs - 10' Quarters.

July 1-12
Donnan,
Shaw,
Levine.

271. 231.00 Sp. fence post near Voss P. Granada
75.47
333.67
- 2.80
337.67
+ 1.33
325.00
- 7.40
319.50

+ H.I. -
274 319.24 318.50

00 = South line of Redwood Vt.

OK.L.	0.7	318.5
c	0.7	318.5
+2	0.9	318.3
+4	1.0	317.9
1/4	1.3	317.9
c	1.1	318.1
1/4	1.4	317.8
cl	1.9	317.3
+8	1.7	317.5
B.L.	1.2	318.0
+25 B.L.	1.0	317.7
+8	1.7	317.5
+4	2.2	317.0
cl	2.0	317.2
1/4	1.7	317.5
c	1.7	317.5
1/4	2.0	317.2
+6	1.9	317.3
+8	1.4	317.8
cl	1.3	317.9
OK.L.	1.3	317.9
+50 OK.L.	1.7	317.5

H.I.
319.24

24

cl	1.5	317.7
+2	1.7	317.5
+4	2.2	317.0
1/4	2.3	316.9
c	2.0	317.2
1/4	2.2	317.0
c	2.0	316.7
+6	2.5	316.7
+8	2.0	317.2
B.L.	1.8	317.4
+75	2.3	316.9
B.L.	2.6	316.6
+2	2.7	315.5
+3	3.0	316.2
cl	2.7	316.5
1/4	2.4	316.8
c	2.7	316.5
1/4	2.7	316.5
+6	2.2	317.0
+8	2.3	316.9
cl	2.2	317.0
OK.L.	3.3	315.9
1.00	3.2	316.0
OK.L.	3.2	316.0
cl	3.2	316.0
+2	3.7	315.5
+4	3.4	315.8
c	3.3	315.9
1/4	3.0	315.7

Vranada (60' wide)

cl		3.8	315.6
+4		4.2	315.0
+6		3.6	315.6
^{8.2.} ¹⁺²⁰ E.L.		3.1	316.1
+3		3.8	315.9
+4		3.6	315.6
		4.3	314.9
cl		4.2	315.0
1/4		4.0	315.2
c		4.1	315.1
1/4		4.4	314.8
+6		4.5	314.7
+8		3.9	315.3
cl		4.0	315.2
^{01.1.} ¹⁺⁵⁰ E.L.		4.8	314.9
cl		5.3	313.9
1/4		5.1	314.1
c		5.3	313.9
		4.5	314.7
1/4		4.5	314.7
cl		4.6	314.6
+6		4.7	314.5
+8		4.1	315.1
^{8.2.} ¹⁺⁷⁰ E.L.		3.9	315.3
+2		4.3	314.9
+4		4.5	314.7
		5.0	314.2
cl		5.0	314.2

cl		5.0	314.2
1/4		5.1	314.1
c		5.2	314.0
1/4		5.8	313.4
cl		5.9	313.3
^{01.1.} ²⁺⁰⁰ E.L.		5.7	313.5
^{01.1.}		6.3	312.9
cl		6.4	312.8
1/4		6.2	313.0
c		5.7	313.5
1/4		5.5	313.7
cl		5.5	313.7
+6		5.5	312.7
+8		4.8	314.4
^{8.2.} ²⁺²⁰ E.L.		4.8	314.4
+2		5.2	314.0
		6.3	313.9
+4		6.0	313.2
cl		5.9	313.3
1/4		6.0	313.2
c		6.0	313.2
1/4		6.5	312.7
cl		6.7	312.5
^{01.1.} ¹⁺⁵⁰ E.L.		6.9	312.3
^{01.1.}		7.3	311.9
cl		7.3	311.9
1/4		7.3	311.9
c		6.8	312.4

	+	H.I.	-	Granada (60' wide)
1/4			6.3	312.9
cl			6.5	312.7
+6			6.6	312.6
+8			5.6	313.6
E.L. 2+70			5.5	313.7
E.L.			6.0	313.2
+3			6.2	313.0
+5			7.3	311.9
cl			6.9	312.3
1/4			6.8	312.4
c			7.2	312.0
1/4			7.6	311.6
cl			7.7	311.5
M.L. 3+00			8.1	311.1
M.L.			7.7	311.5
cl			7.8	311.4
1/4			8.0	311.2
c			7.4	311.8
1/4			7.1	312.1
cl			7.5	311.7
+5			7.4	311.8
+7			6.3	312.9
E.L. 3+20			6.1	313.1
E.L.			6.7	312.5
+3			7.0	312.2
+5			7.8	311.4
cl			8.0	311.2
1/4			7.8	311.4

	+	H.I.	-	
c		319.24	9.0	311.2 26
1/4			9.5	310.7
cl			9.1	311.1
M.L. 3+50			9.2	311.0
M.L.			8.6	310.6
cl			9.3	310.9
+			9.3	310.9
+5			9.0	310.2
1/4			8.7	310.5
c			9.1	311.1
1/4			8.1	311.1
cl			8.2	311.0
+5			9.0	311.2
+7			7.2	312.0
E.L.			7.0	312.2
# 3+00	2.20	314.51	6.9	312.31
E.L.			2.6	311.9
+3			2.7	311.8
+5			3.4	311.1
cl			3.6	310.9
1/4			3.6	310.9
c			3.6	310.9
1/4			4.1	310.4
+5			4.5	310.0
+7			4.1	310.4
cl			3.9	310.6
M.L. 4+00			4.2	310.3
M.L.			4.4	310.1

+

H.I.
314.51

Stranada (60' wide)

cl	4.2	310.3
+3	4.2	310.3
+5	4.9	309.6
1/4	4.5	310.0
c	4.0	310.5
1/4	4.0	310.5
cl	3.8	310.7
+5	3.7	310.8
+7	2.8	311.7
E.L. 4+20	2.7	311.8
E.L.	2.7	311.8
+3	2.8	311.7
+5	3.8	310.7
cl	4.0	310.5
1/4	4.2	310.3
c	4.1	310.4
1/4	4.7	309.8
cl	4.4	310.1
M.L. 4+50	4.6	309.9
M.L.	4.7	309.8
cl	4.5	310.0
1/4	4.6	309.9
c	4.4	310.1
1/4	4.2	310.3
cl	4.0	310.5
+5	3.7	310.8
+7	3.0	311.5
E.L.	2.7	311.8

H.I.
314.51

27

4+25 E.L.	2.8	312.2
+4	2.5	312.0
+5	3.3	311.2
cl	3.7	310.8
1/4	4.0	310.5
c	4.2	310.3
1/4	4.7	309.8
cl	4.7	309.8
M.L. 5+00	4.9	309.6
M.L.	4.7	309.8
cl	4.4	310.1
1/4	4.5	310.0
c	4.1	310.4
1/4	3.9	310.6
cl	3.7	310.8
+4	3.4	311.1
+6	2.5	312.0
E.L.	2.5	312.0
5+20 E.L.	2.4	312.1
+4	2.7	311.8
+6	3.2	311.3
cl	3.4	311.1
1/4	3.6	310.9
c	3.7	310.8
1/4	4.3	310.2
cl	4.3	310.2
M.L. 5+50	4.5	310.0
M.L.	4.4	310.1

	H.I. 312.51		Granada (60' wide)
cl		4.1	310.4
1/2		4.1	310.4
c		3.6	310.9
1/4		3.4	311.1
cl		3.5	311.0
+4		3.1	311.4
+6		2.4	312.1
E.L.		2.3	312.2
5+75-		2.1	312.4
E.L.		2.3	312.2
+4		3.2	311.3
+6		3.4	311.1
cl		3.4	311.1
1/2		3.4	311.1
c		3.6	310.9
1/2		4.2	310.3
cl		4.0	310.5
Dr. L.		4.6	309.9
#	2.20	313.89	3.22 311.29
5+99			
Dr. L.		3.4	310.5
cl		3.6	310.3
+1		4.1	309.8
1/2		3.5	310.4
c		3.1	310.8
1/2		2.7	311.2
cl		2.6	311.3
+6		2.3	311.6
+8		1.6	312.3
E.L.		1.6	312.3

	H.I. 313.89		
4+00=North line of Palm St. Shaded,			
5+00			
E.L.		2.6	311.3
cl		2.9	311.0
Grnt		3.4	310.5
1/2		3.3	310.6
c		3.3	310.6
1/2		3.4	310.0
Grnt		4.3	309.6
cl		3.6	310.3
Dr. L.		3.8	310.1
00=North line of Palm St.		4.1	309.8
cl		4.3	309.6
Grnt		4.8	309.1
1/2		4.3	309.6
c		3.8	310.1
1/2		3.7	310.2
Grnt		4.0	309.9
cl		3.4	310.5
E.L.		3.1	310.8
+1		2.0	311.9
E.L.		2.9	311.1
cl		3.2	310.7
1/2		3.0	310.9
c		3.6	310.3
1/2		3.0	310.9
cl		3.3	310.6
Dr. L.		3.5	310.4
+2.05			
Dr. L.		3.1	310.8
cl			

H.I.
313.89

Plançada (60 min)

S			
+4	3.0	310.9	
+6	3.5	310.4	
1/4	3.3	310.6	
c	3.1	310.8	
1/4	3.0	310.9	
cl	3.0	310.9	
+2	3.0	310.9	
+4	2.8	311.6	
E.L.	2.8	311.6	
+50			
E.L.	2.5	311.4	
+6	2.7	311.2	
+8	3.1	310.8	
cl	3.0	310.9	
1/2	3.0	310.9	
c	3.1	310.8	
1/4	3.5	310.4	
+5	3.8	310.1	
+7	3.2	310.7	
cl	3.4	310.5	
OK.L.	3.6	310.3	
+70			
OK.L.	4.0	309.9	
cl	3.6	310.3	
+5	3.4	310.5	
+7	3.9	310.0	
1/4	3.6	310.3	
a	3.2	310.7	
1/4	3.1	310.8	
cl	3.1	310.8	

+

H.I.
313.89

29

E.L.	2.6	311.3	
1400			
E.L.	3.0	310.9	
cl	3.6	310.3	
1/4	3.4	310.5	
c	3.5	310.4	
1/2	3.7	310.2	
+5	3.8	310.1	
+7	3.5	310.4	
cl	3.5	310.4	
OK.L.	3.8	310.1	
1425			
OK.L.	3.9	310.0	
cl	4.4	309.5	
+3	4.2	309.7	
+5	4.5	309.4	
1/2	4.2	309.7	
c	3.9	310.0	
1/4	3.6	310.3	
cl	4.0	309.9	
E.L.	3.4	310.5	
1450			
E.L.	3.4	310.5	
cl	4.0	309.9	
1/4	3.9	310.0	
c	4.1	309.8	
1/4	4.6	309.3	
cl	4.5	309.4	
OK.L.	4.8	309.1	
1475			
OK.L.	4.8	309.1	
cl	4.4	309.5	

H.I.
312.87

Granada (60' wide)

H.I.
312.89

1/4	4.6	309.3
c	4.2	309.7
1/4	4.0	309.9
cl	4.0	309.9
E.L.	3.5	310.1
2+00 E.L.	3.8	310.1
cl	4.1	309.8
1/4	4.3	309.6
c	4.4	309.5
1/4	4.9	309.0
cl	4.9	309.0
Or.L. 2+25	5.3	308.6
Or.L.	5.9	308.0
cl	5.4	308.5
1/4	5.2	308.7
c	4.7	309.2
1/4	4.6	309.3
cl	4.8	309.1
E.L. 2+50	4.3	309.6
E.L.	4.6	309.3
cl	5.2	308.7
1/4	5.0	308.9
c	5.1	308.8
1/4	5.6	308.3
cl	5.6	308.3
Or.L. 2+75	6.2	307.7
Or.L.	6.7	307.2
cl	6.4	307.5

1/4	6.1	307.8
c	5.7	308.2
1/4	5.5	308.4
cl	5.7	308.2
E.L. 3+00	5.2	308.7
E.L.	5.4	308.5
cl	6.2	307.7
1/4	6.1	307.8
c	6.3	307.6
1/4	6.8	307.1
cl	7.0	306.9
Or.L. 3+25	6.9	307.0
Or.L.	7.7	306.2
cl	7.4	306.5
1/4	7.4	306.5
c	7.4	306.5
1/4	6.5	307.0
cl	6.6	307.3
cl	6.8	307.1
E.L. 3+50	6.3	307.6
E.L.	6.7	307.2
cl	7.5	306.4
1/4	7.2	306.7
c	7.5	306.4
1/4	8.0	305.9
cl	8.2	305.7
Or.L. 3+75	8.2	305.7
Or.L.	9.1	304.8
cl	9.0	304.9

H.I.
313.89

Granada (60 miles)

1/2	8.7	305.2
c	8.2	305.7
1/2	8.0	305.9
cb	8.2	305.7
E.L. 4+00	7.7	306.2
E.L.	8.3	305.6
cb	8.8	305.1
1/2	8.6	305.3
c	8.9	305.0
1/2	9.4	304.5
cb	9.5	304.4
OK.L. 4+25	9.6	304.3
OK.L.	10.1	303.8
cb	10.0	303.9
1/2	10.1	303.8
c	9.5	304.4
1/4	9.4	304.5
cb	9.7	304.2
E.L. 4+50	9.0	304.9
E.L.	10.4	303.5
cb	10.5	303.4
1/2	10.3	303.6
c	10.2	303.7
1/2	10.6	303.3
cb	10.6	303.3
OK.L. 4+75	10.9	303.0
OK.L.	11.8	302.1
cb	11.4	302.5

H.I.
313.89

1/2	11.4	302.5
c	11.0	302.9
1/2	11.2	302.7
cb	11.4	302.5
E.L.	11.2	302.7
H 5+00	11.70	302.94
E.L.	12.65	301.24
cb	1.7	301.2
1/2	1.4	301.5
c	1.2	301.7
1/2	1.0	301.9
cb	1.4	301.5
OK.L. 5+25	1.4	301.5
OK.L.	1.6	301.3
cb	2.6	300.3
1/2	2.4	300.5
c	1.2	300.7
1/2	2.0	300.9
cb	2.4	300.5
E.L. 5+50	3.0	299.9
E.L.	3.5	299.4
cb	5.5	297.4
1/2	4.9	298.0
c	4.0	298.9
1/2	3.4	299.5
cb	3.4	299.5
OK.L. 5+75	3.4	299.5
OK.L.	3.7	299.2
cb	4.8	298.1

H.I.
302.94

cb	4.6	298.3	
1/4	4.6	298.3	
e	5.0	297.9	
1/2	5.7	297.2	
cb	6.9	296.1	
E.L.	7.2	295.7	
6+00 - North line of Madison St			
6+00			
E.L.	9.2	293.7	
cb	8.5	294.4	
1/4	7.2	295.7	
e	6.3	296.6	
1/4	6.0	296.9	
cb	5.9	297.0	
E.L.	6.1	296.8	
#	9.17	293.77	XXV Cor 7+00

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Levels on A line - Preliminary - from Hawk & Washington to Harasthy & Indira.

July 3-12
Hannan,
Shaw,
Devine.

375 Brass Peg NE Cor Hawk & Washington.

Sta.	+	HI	-
157		222.41	
			223.02

cc = center of Hawk's South line of East Washington

20			3.3
----	--	--	-----

+25			14.9
-----	--	--	------

+45			17.9
-----	--	--	------

+85			12.8
-----	--	--	------

1+00			9.3
------	--	--	-----

1+20 ^a			4.9
-------------------	--	--	-----

1+50			5.9
------	--	--	-----

2			11.1
---	--	--	------

#	2.76	252.39	12.78	251.63
---	------	--------	-------	--------

+50			5.2
-----	--	--	-----

+70			3.9
-----	--	--	-----

3			10.9
---	--	--	------

+50			12.8
-----	--	--	------

4			10.7
---	--	--	------

+20			12.3
-----	--	--	------

#	113	240.69	12.83	239.86
---	-----	--------	-------	--------

+42.9			5.0
-------	--	--	-----

5			6.4
---	--	--	-----

5+92			11.7
------	--	--	------

#	0.26	228.13	12.82	227.87
---	------	--------	-------	--------

6			3.2
---	--	--	-----

6+25			5.2
------	--	--	-----

+50			10.0
-----	--	--	------

7			9.7
---	--	--	-----

+ HI
229.13

7+07			10.1
#	1.10	216.25	215.15

7+35			7.4
------	--	--	-----

+50			6.3
-----	--	--	-----

8			6.6
---	--	--	-----

+50			8.5
-----	--	--	-----

+70			9.7
-----	--	--	-----

9			13.2
---	--	--	------

# BNC Peg 1 E Rod:	0.19	203.69	203.50
--------------------	------	--------	--------

+50			4.2
-----	--	--	-----

10			4.7
----	--	--	-----

+50			11.7
-----	--	--	------

11			11.4
----	--	--	------

+50			10.7
-----	--	--	------

#	1.29	152.21	152.77
---	------	--------	--------

12			3.3
----	--	--	-----

+50			4.9
-----	--	--	-----

13			6.0
----	--	--	-----

+50			3.7
-----	--	--	-----

14			5.6
----	--	--	-----

+50			6.8
-----	--	--	-----

15			6.8
----	--	--	-----

+20			8.2
-----	--	--	-----

#	0.79	182.81	182.02
---	------	--------	--------

15+50			5.9
-------	--	--	-----

16			3.7
----	--	--	-----

+50			5.6
-----	--	--	-----

17			7.8
----	--	--	-----

	+	H.I. 182.81	-	
17+50			8.8	
17+58			10.0	
18			7.9	
+60			10.4	
+58			11.0	
# B.M. Peg. S'E 18+20	-0.02	170.29	12.51	170.30
+70			2.9	
19			3.9	
+50			2.2	
20			4.2	166.1
+50			5.7	164.6
21			10.8	159.5
+25			12.0	158.3
+46			8.2	162.1
22			13.2	159.1
#	2.00	158.45	12.88	157.45
+50			2.1	156.4
+72			6.1	153.4
23			7.6	151.9
+50			10.2	149.3
24			12.0	147.5
# B.M. Peg. S'E 24+27	0.48	147.06	12.87	146.58
24+26			2.0	145.1
+50			9.0	143.1
25			8.9	138.2
+50			8.7	138.4
26			7.6	139.5
26+11			9.5	137.6

	+	H.I. 147.06	-	
#	0.80	135.39	12.48	134.59
+50			5.2	130.3
27			7.9	127.5
+50			5.7	129.7
28			6.1	129.3
28+29			8.5	126.8
+50			8.3	127.1
29			12.3	123.1
# B.M. Peg. W 29+30	0.11	122.91	12.78	122.60
+30			5.9	116.9
+50			2.4	120.4
30			5.6	117.0
+50			15.2	107.6
31			13.2	109.6
# B.M. Peg. S 31+32	0.13	109.94	13.00	108.81
31+30			3.3	106.6
+80			8.3	100.6
32			10.5	99.4
+50			7.0	102.9
33			10.7	99.2
+50			13.4	96.5
#	0.34	97.77	12.51	97.43
34			5.5	91.0
+50			10.7	87.1
+60			13.0	84.8
+70			11.1	86.7
35			12.4	85.4
#	0.3	95.06	12.74	85.03

HI
85.06

78.09

35

35.00			3.1	82.0
+85			6.7	78.4
36			6.6	78.5
+10			5.2	79.9
+40			9.2	76.9
+50			7.3	77.8
+60			6.7	78.4
37			7.6	77.3
+20			4.9	76.3
+35			12.0	73.1
+50			10.0	75.1
38			4.7	80.4
+30			3.6	81.5
39+40 = East line India (Apple)			4.9	80.3
41	4.37	84.33	5.10	79.96
			6.36	77.97 = 77.96 Spk 2000
				NW Coy Winger S India
				Davis Etc

1/2 Hatch
1/2 moss
1/2 Hall

Dec 29th from N. Woolman

206 79.76 77.697

N.1. Clay

E	25	77.3
	26	
	23	
C	26	77.2
	25	
	21	
W	24	77.4

25' N

W	30	76.8
	28	
	28	
	29	76.9
	30	
	33	
E	30	76.8

PLOTTED

50' N

E	39	75.9
	37	
	40	
C	41	75.7
	40	
	38	
W	38	76.0

79.76
75' N

W	44	75.4
	44	
	48	
C	49	74.9
	46	
	45	
E	45	75.3

100' N

E	47	75.1
	45	
	47	
C	53	74.5
	51	
	48	
W	46	75.2

PLOTTED

125' N

W	52	74.6
	53	
	57	
C	58	74.0
	57	
	56	
E	58	74.0

1976

150' N

E	5.8	74.0
	6.0	
	6.3	
C	6.0	73.8
	5.7	
	6.2	
W	6.1	73.7

PLOTTED 175' N

W	6.3	73.5
	6.3	
	5.7	
C	5.7	74.1
	6.6	
	6.5	
E	6.9	73.4

200' N

E	6.8	73.0
	6.5	
	6.9	
C	6.9	72.9
	6.8	
	7.0	
W	6.7	73.1

1976

225' N

W	7.1	72.7
	7.4	
	7.1	
C	7.1	72.7
	7.0	
	7.0	
E	7.1	72.7

250' N

E	7.6	72.2
	7.5	
	7.3	
C	7.5	72.3
	7.4	
	7.6	
W	7.4	72.4

PLOTTED

275' N

W	7.7	72.1
	7.8	
	7.8	
C	7.8	72.0
	7.6	
	7.7	
E	7.8	72.0

79.76
300 N = St. Webster

E		81	71.7
		84	
		84	
C		91	70.7
		84	
		86	
W	332	74.78	71.45
		830	
		N. Webster	
W		39	70.9
		37	
		36	
C	PLOTTED	42	70.6
		45	
		38	
E		37	71.1
	25 N		
E		38	71.0
		38	
		40	
C		40	70.8
		37	
		39	
W		41	70.7

74.78
50 N

W		44	70.4
		43	
		39	
C		42	70.6
		42	
		42	
E		42	70.6
E	PLOTTED	44	70.4
		43	
		46	
C		44	70.4
		38	
		36	
W		39	70.9
W		43	70.5
		38	
		41	
C		45	70.3
		44	
		44	
E		44	70.4

74.78
125' N

E 4.6 70.2

4.3

4.4

C 4.2 70.6

PLOTTED

3.9

4.2

W 4.6 70.2

140' N - Sh. Valley Place

W 4.3 70.5

4.1

4.2

C 4.3 70.5

4.4

4.3

E 4.6 70.2

sch

E 4.6 70.2

4.4

4.6

C 4.3 70.5

4.3

4.3

W 4.6 70.2

39

74.78

5 1/2

W 4.7 70.1

4.4

4.2

C 4.1 70.7

4.5

4.5

E 4.3 70.5

cr

PLOTTED

E 4.3 70.5

4.6

4.5

C 4.3 70.5

4.3

4.3

W 4.6 70.2

N 1/2

W 4.8 70.0

4.7

4.3

C 4.3 70.6

4.3

4.3

E 4.2 70.6

7478
Feb.

E 4.3 70.5

4.3
4.1

C 4.4 70.4

PLOTTED

4.3
4.7

W 4.8 70.0

Nh Valley Place

W 5.0 69.8

4.8
4.6

C 4.5 70.3

4.6
4.5

E 4.0 70.4

Sec. A

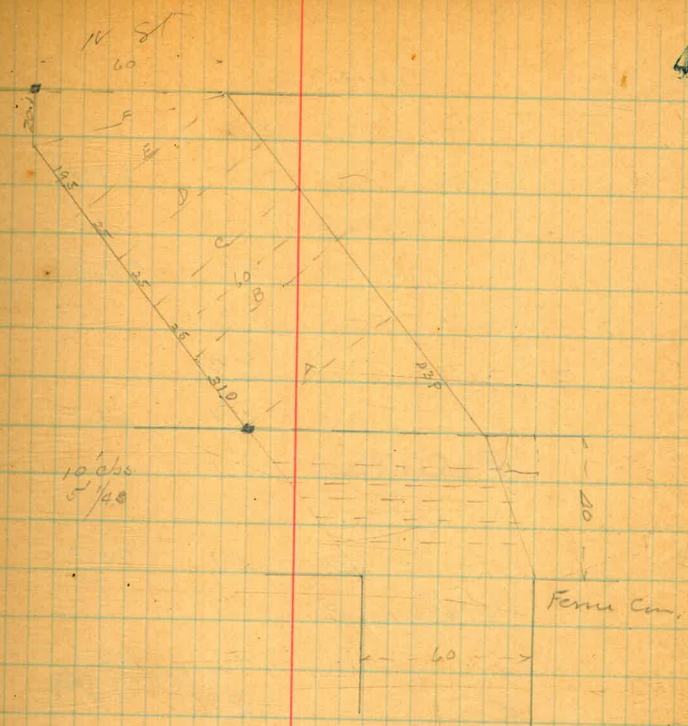
E 4.4 70.4

4.4
4.8

C 4.7 70.1

4.8
5.0

W 5.0 69.8



Sec B

W 5.3 69.5

PLOTTED

5.4
5.2

C 5.4 69.4

5.0
4.0

E 3.9 70.9

Sec C

E 3.9 70.9

4.8
5.1

C 5.4 69.4

5.1

7478

	5.3	
W	5.0	69.8
	- Sec D	
W	4.8	70.0
	5.3	
	5.4	
C	5.1	69.7
	PLOTTED	
	5.1	
	4.5	
E	4.1	70.7
	Sec E	
E	4.7	70.1
	4.7	
	4.9	
C	5.3	69.5
	5.3	
	5.4	
W	5.0	69.8
	Sec F	
W	4.8	70.0
	5.4	
	5.3	
C	5.0	69.8
	4.5	
	4.4	
E	4.6	70.2

41

7478

	5.3	
E	4.6	70.2
	4.1	
	4.1	
C	4.0	70.8
	4.5	
	4.4	
W	4.0	70.4
	1078	5845
	3.1	clay
W	9.1	79.4
	9.3	
	PLOTTED	
	10.0	
C	9.9	79.1
	8.1	
	8.5	
E	9.1	79.4
	25	3
E	8.4	80.1
	7.9	
	8.1	
C	8.5	80.0
	8.6	
	8.4	
W	8.6	79.9

8848

60's

W 7.7 80.8

7.7

7.9

c 8.0 80.5

7.6

7.2

F 7.7 80.8

75's

F 7.4 81.1

PLOTTED

6.5

6.5

c 7.0 81.5

7.2

7.1

W 7.1 81.4

100's

W 6.6 81.9

6.8

6.9

c 6.9 81.6

6.2

6.6

+5 7.3

15 6.1 82.4

8848

125's

E 58 82.7

+5 6.9

cb 6.7

H 6.2

c 6.0 82.5

6.5

6.1

W 6.1 82.4

150's

W 4.8 83.7

PLOTTED

5.2

5.4

5.2 83.3

5.2

cb 5.1

+5 6.3

E 5.9 82.6

175's

F 4.5 84.0

+5 5.6

cb 3.6

H 3.0

c 4.0 84.5

5.0

5.3

W 5.2 83.3

8898
200's

W	4.0	84.5
cb	4.5	
W	3.9	
c	4.2	84.3
W	4.2	
cb	4.4	
+5	5.1	
E	4.5	84.0

225's

E	3.5	85.0
+5	5.0	
cb	3.4	
W	3.8	
c	3.8	84.7
	3.7	
	3.9	
W	3.8	84.7

PLOTTED

250's

W	2.5	86.6
	3.1	
	2.5	
	3.6	84.7
	3.3	
cb	2.8	
+5	3.8	
E	3.0	85.5

43

8898
275's

E	2.6	85.9
+5	3.8	
cb	2.0	
	2.6	
c	2.9	85.7
	1.9	
	2.4	
W	2.1	86.4

300's = 3k. Franklin

W	1.2	87.3
	1.8	
	2.0	
c	2.5	86.0
	2.3	
cb	2.9	
+5	3.5	
E	2.5	86.0

PLOTTED

TP 1254

✓ 10076 026

8822

3k. Franklin

E	10.3	90.5
cb	10.5	
W	10.4	
c	9.9	90.9
	10.0	
	9.9	
W	9.7	91.1

100.76

25's

W 6.5 94.3

64

7.3

C 7.5 93.3

6.9

6.3

E 5.8 95.0

50's

E 5.1 95.7

5.1

PLOTTED

5.6

C 5.2 95.6

4.9

4.3

W 3.7 97.1

75's

W 1.9 98.9

2.0

2.8

C 3.1 97.7

3.3

3.0

E 3.1 97.7

100.76

100's

E 1.8 99.0

D 1.7

1.5

C 1.4 99.4

1.2

D 0.1

TD 7.56 105.61 17.1 99.05

W 5.9 100.7

125's

W 4.7 101.9

4.9

PLOTTED

5.3

O 5.4 101.2

5.5

5.9

E 6.0 100.6

150's

E 4.8 101.8

4.8

4.5

C 4.6 102.0

4.3

4.4

W 4.3 102.3

106.61
175's

M 53 101.3

53

51

C 49 101.7

48

49

E 52 101.4

200's

E 56 101.0

56

56

e **PLOTTED** 56 101.0

59

61

N 61 100.5

205's

W 62 100.4

59

64

d 63 100.3

63

62

E 61 100.5

106.61
250's

E 65 100.1

67

68

C 68 99.8

68

67

W 69 99.7

275's

W 72 99.4

69

74

C **PLOTTED** 75 99.1

73

72

E 72 99.4

300's = HK Woodmont.

E 81 98.5

78

75

C 76 99.0

80

79

W 79 98.7

Rare Spruce St from Front west		232.00	
Curb on Car	0.86	Front Spruce	232.36
		Wh. Front	281.50
5 cb	1.5		231.5
gutter	1.5		
1/2	1.4		
c	1.4		230.9
1/2	1.8		
+4	2.0		
Walk (cb)	0.52		231.54
N	0.7		231.6
		25' W	
N	2.8		228.6
Walk	3.16		228.00
+5	3.5		
1/2	3.7		
c	3.2		229.2
1/2	3.6		
gutter	4.3		
cb	3.4		
3	3.4		230.0
5	3.2		229.0
cb	3.1		
gutter	5.8		
1/2	4.6		
c	4.4		228.0
1/2	4.9		
walk	4.7		227.2
+6	4.6		227.8

60' Street 1/2 curb 5.7 1/2 c		232.36	
N		38	228.6
		50' W	
N		4.2	228.2
+6		5.5	
walk		5.61	226.75
1/2		5.6	
c		4.9	227.5
1/2		5.0	
gutter		6.5	
cb		5.6	
3		5.6	226.8
5		7.1	225.3
W		7.1	
gutter		7.9	
1/2		7.0	
c		6.6	225.8
1/2		7.4	
+8		7.0	
walk		8.1	224.3
+5		8.1	
+9		6.2	
N		3.9	226.5
		100' W	
N		8.0	224.4
+4		8.0	
+9		10.3	
walk		10.2	224.2
+3		8.7	
1/2		9.5	

	23226		
c		8.5	213.9
1/2		8.5	
Gutter		8.9	
cb		8.5	
s		8.8	213.6
	125' W		
5'		10.4	211.0
cb		10.6	
1/2		10.5	
c		10.3	211.1
1/2		11.4	
Walk		12.45	219.91
+7		12.6	
N		12.5	212.9
TP	5.57	22549	12.38 ^{219.98}
			of West End of Bridge
			185' W = Fence at Break of Canyon
N		10.6	214.9
cb		8.5	
1/2		7.0	
c		5.1	210.1
1/2		5.3	
cb		5.1	
s		4.2	211.3
	145' W		
s		8.5	217.0
cb		8.6	
1/2		8.1	
cb		8.7	216.8
1/2		10.6	

cb 11.8
N 19.0 8H

High Water
 Cypress St to Indiana

Bm Cypress Park Blvd	206.82	302.548	SE Cor RR Spk
VA Cypress			
E	5.3	301.5	
cb	66	300.2	
1/2	65	300.3	
c	71	299.7	
1/4	1.5	298.3	
cb	9.0	297.8	
W	88	298.0	
	25' N		
W	9.1	297.7	
cb	9.0	297.8	
1/4	8.5	298.3	
+22	82	298.6	
c	71	299.7	
+17	60	300.8	
1/2	64	300.4	
cb	61	300.7	
E	3.5	303.3	
	50' N		
E	49	301.9	
cb	53	301.5	
+10	55	301.3	
+15	65	300.3	
1/2	60	300.8	
+8	59	300.9	
c	68	300.0	

Curve
 East R=655
 Δ=4290
 L=437.74
 Chords=25
 West R=805
 Δ=4290
 L=579.96
 Chords=30.73
 Sections on Radial Lines
 20' Curbs, 27 1/2' 1/4 5' 48

+5	76	299.2
1/2	85	298.3
cb	92	297.6
W	92	297.6
	75' N	
W	84	298.0
cb	88	298.0
1/2	83	298.5
+20	75	299.3
c	71	299.7
1/2	59	300.9
+15	66	300.2
+20	65	301.3
cb	53	301.5
E	50	301.8
	100' N	
E	49	301.9
cb	58	301.0
+10	62	300.6
1/2	56	301.5
c	69	299.9
+10	77	299.1
1/2	82	298.6
cb	88	298.0
W	89	297.9

30672

125° N

W	83	298.5
cb	86	298.2
1/4	76	299.2
C	68	300.0
1/2	51	301.7
+18	56	301.2
cb	54	301.4
E	46	302.2

150° N

E	32	303.6
cb	48	302.0
+10	55	301.3
1/4	53	301.5
C	65	300.3
1/2	68	300.0
+15	72	299.6
+20	51	298.7
cb	13	298.5
W	74	299.4

175° N

W	76	299.2
cb	75	299.3
1/4	65	300.3
+10	61	300.7
C	60	300.8
1/2	49	301.9
cb	50	301.9
+5	40	302.8

30682

49

E	45	302.3
200° N		
E	37	303.1
cb	41	302.7
+10	49	301.9
1/4	46	302.2
C	59	300.9
+10	60	300.8
1/2	58	301.0
cb	69	299.9
+10	70	299.8
W	78	299.0

225° N

W	64	300.4
cb	60	300.8
+10	56	301.2
1/2	56	301.2
+15	60	300.9
C	54	301.4
1/4	45	302.3
+15	47	302.1
cb	45	302.3
+5	36	303.2
E	30	303.8

30682

550 N. Sh. Pennsylvania Ave. 88 on W
71¹/₂ on E

E	33	303.5
+10	37	303.1
cb	35	303.3
+15	44	302.4
1/2	44	302.4
+10	41	302.7
c	49	301.9
+15	56	301.2
1/2	55	301.3
+15	59	300.9
cb	63	300.5
+10	70	299.8
W	67	300.1
5 cb.		
W	70	299.8 ^{also}
cb	67	300.1
+15	64	300.4
1/2	55	301.3
+10	51	301.7
c	50	301.8
+17	41	302.7
1/4	43	302.5
+10	43	302.5
cb	36	303.2
E	33	303.5

50

30682

5 1/2

E	37	303.1
cb	35	303.3
+15	43	302.5
1/2	42	302.6 ¹¹⁴
+10	40	302.8
c	49	301.9
1/2	55	301.3
+15	57	301.1
cb	65	300.3
+10	71	299.7
W	70	299.8
c		
W	70	299.8
+10	66	300.2
cb	62	300.6
+15	56	301.2
1/2	55	301.3
c	46	302.2 c
+20	39	302.9
1/4	43	302.6
+10	43	302.5
+30	36	303.2
cb	38	303.0
E	40	302.8

30682

N/4

E	42	302.6	
cb	44	302.4	
+10	41	302.7	
+20	47	302.1	
1/2	41	302.7	114
+10	39	302.9	
C	46	302.2	
1/2	65	301.3	
cb	63	300.5	
W	67	300.1	

Ncb

W	69	299.9	
cb	62	300.6	
1/2	63	301.5	
C	48	302.0	
1/4	41	302.7	
+20	60	301.8	
cb	61	301.7	5+16
E	63	301.5	

N/4

E	65	301.3	
cb	65	301.3	
+12	62	301.6	
1/4	44	302.4	
C	46	302.2	
+5	42	302.6	

30682

51

1/4	51	301.7	
cb	57	301.1	
W	59	300.9	
284	N of	St.	
W	52	301.6	
cb	51	301.7	
1/2	54	301.4	
C	53	301.5	
1/2	49	301.9	
+20	56	301.2	
cb	62	300.6	
E	65	301.3	
63.9	W		
E	65	300.3	
cb	70	299.8	
+6	67	300.1	
+10	61	300.7	
1/4	56	301.2	
C	64	300.4	
+20	65	300.3	
1/2	62	300.6	
cb	55	301.3	
W	52	301.6	

306.82

78.4 N

W	6.5	300.3
cb	7.2	299.6
+15	7.9	298.9
1/4	7.6	299.2
+15	7.7	299.1
c	7.5	299.3
+5	6.9	299.9
1/4	6.1	300.7
+15	6.2	300.6
+20	7.5	299.3
cb	7.6	299.2
+10	6.4	300.4
E	6.2	300.6

4.44

304.52

6.44

300.35

108.4 N

E	3.5	301.0
+15	4.0	300.5
cb	5.1	299.4
+10	5.2	299.3
15	4.3	300.2
1/4	4.3	300.7
+20	4.8	299.7
+25	6.1	298.4
c	6.4	298.1
+15	7.4	297.1
1/4	7.5	297.0

304.52

52

cb	7.8	296.7
W	7.5	297.0

128.4 N

W	10.0	294.5
cb	10.3	294.2
+10	9.8	294.7
1/4	7.6	296.9
c	6.2	298.3
+10	5.1	299.4
1/4	4.9	300.1
+15	4.8	299.7
+30	5.6	298.9
cb	5.6	298.9
+5	5.0	299.5
E	4.9	299.6

153.4 N

E	4.8	299.7
cb	5.6	298.9
+10	5.8	298.7
+20	4.9	299.6
1/4	4.7	299.8
+25	5.3	299.2
c	6.9	297.6
1/4	8.9	295.6
+30	10.7	293.8
cb	11.8	292.7
W	14.8	289.7

309.52

160' N

W	16.5	288.0
cb	14.5	290.0
1/2	11.6	292.9
+15	9.0	295.5
c	7.9	297.1
+5	6.3	299.2
1/4	4.7	299.8
+15	5.2	299.3
+20	5.7	298.8
cb	5.5	299.0
+10	4.8	299.7
E	4.4	300.1

166.15 N = Reverse pt. = 0410

E	4.9	300.1
cb	4.8	299.7
+5	5.6	298.9
+15	5.6	298.9
+20	4.9	299.6
1/2	4.8	299.7
+22	5.3	299.2
c	6.8	297.7
1/4	9.2	295.3
+15	10.5	296.0
cb	11.6	292.9
W	13.8	291.2

CURVE
 R = 627.7
 W $\Delta = 14.54$ to B/A Cor
 $L = 165'$
 chord 25'

$\alpha = 15^\circ 21' C$
 $\gamma = 13^\circ 44' A$

Sections on Radial lines
 R = 777.7
 E $\Delta = 16^\circ 29'$ to B/A Cor
 $L = 204.0$
 chord 30.63

58

30.97

W	9.0	295.5
+10	8.1	296.4
cb	8.1	296.4
1/2	7.3	297.2
+17	7.3	297.2
c	4.9	299.6
1/4	4.9	299.6
+24	5.3	299.2
cb	4.9	299.6
E	4.3	300.2

50 N

E	3.1	301.4
cb	3.6	300.9
+15	4.8	299.7
1/2	4.5	300.0
+10	4.2	300.3
c	4.7	299.8
+5	4.7	299.8
+15	6.6	297.9
1/4	6.3	298.2
+20	7.0	297.5
cb	7.5	297.0
W	8.3	296.2

302.52

750' W

W	7.4	297.1
cb	6.5	298.0
+15	5.6	298.9
1/2	6.0	298.5
+15	5.7	298.8
+20	4.4	300.1
c	4.0	300.5
+10	3.8	300.7
1/2	4.1	300.4
+10	4.3	300.2
cb	3.7	300.8
E	3.0	301.5

100' N

E	2.4	302.1
cb	2.2	302.2
+10	3.4	301.1
1/4	3.6	300.9
+15	3.1	301.4
c	3.5	301.0
+5	3.8	300.7
+10	4.7	299.8
1/4	5.2	299.3
cb	5.6	298.9
W	6.6	297.9

302.52

125' N

W	6.0	298.5
cb	5.2	299.3
+15	4.7	299.8
1/4	4.9	299.6
+15	4.2	300.3
+20	3.2	301.3
c	3.0	301.5
+10	2.6	301.9
1/2	3.9	301.6
+12	2.7	301.8
+15	2.0	302.5
cb	2.0	302.5
E	1.2	303.3

150' N

E	0.0	304.5
cb	0.7	303.8
+10	1.7	302.8
1/2	2.4	302.1
+15	1.9	302.6
c	2.3	302.2
+5	2.5	302.0
+10	3.6	300.9
1/2	4.0	300.5
cb	4.7	299.8
W	5.4	299.1

304.52

165' N

W		5.6	298.9
cb		4.7	299.8
+10		3.6	300.9
1/4		2.1	302.4
c		1.6	302.9
1/4		1.3	303.2
+15		1.5	303.0
cb		0.8	304.2
TP	791	1.2	303.40
F		5.9	305.4

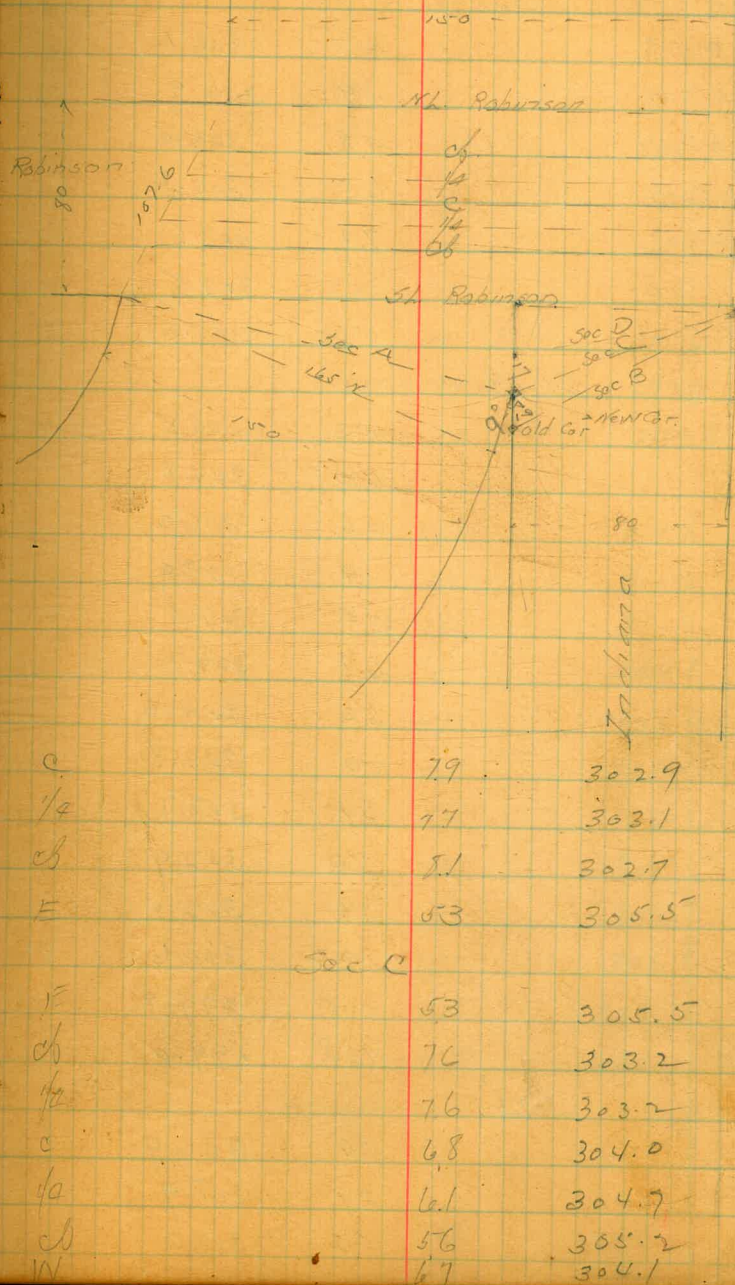
Sec A.

E		6.9	303.9
+5		5.2	305.6
cb		5.9	305.4
+5		6.9	303.9
1/4		7.3	303.5
c		7.8	303.0
1/4		8.2	302.6
+5		8.1	302.7
+20		10.5	300.3
cb		11.1	299.7
W		11.8	299.0

Sec B

W		7.6	302.7
cb		8.5	302.3
1/4		7.7	303.1

55



310.81

Sec D

W	4.7	306.1
cb	3.9	306.9
1/0	4.8	306.0
c	6.5	304.3
1/0	7.2	303.6
cb	7.3	303.5
E	6.3	305.5

St. Robinson

E	5.3	305.5
17	6.0	304.8
30	4.6	306.2
48	1.9	308.9
70	3.4	307.4
95	6.1	304.7
100	6.2	304.6
130	6.0	304.8
140	7.1	303.7
165	7.9	302.9
183	8.4	302.4
192	10.2	300.6
200	11.0	299.8
222 = W	11.8	299.0

scb.

E	3.9	306.9
20	2.9	307.9
30	6.8	310.0

310.81

60	20	308.8
70	3.8	307.0
90	5.6	305.2
100	5.4	305.4
115	5.7	305.1
130	7.2	303.6
150	7.7	303.1
172	9.2	301.6
200	10.9	299.9
209 W	11.2	299.6

5 1/4

E	11.0	311.8
20	0.2	310.6
40	0.6	310.2
60	3.0	307.8
70	4.9	305.9
90	4.5	306.3
100	6.2	305.6
115	6.3	305.5
130	7.1	303.7
148	7.7	303.1
170	9.5	301.3
196 - W	10.7	300.1
TP. 836	316.33	284
		307.97

316.23

e2

E	1.3	315.0
20	3.9	312.4
40	5.7	310.6
60	8.7	307.6
80	10.4	305.9
100	10.3	306.0
120	11.5	304.8
130	12.7	303.6
149	13.6	302.7
167	14.8	301.5
185 W	15.7	300.6

N 1/2

E	1.0	315.3
20	3.2	313.1
40	4.9	310.4
60	8.8	307.5
75	9.7	306.6
100	10.1	306.2
115	11.9	304.4
135	12.7	303.6
155	13.8	302.5
173	14.9	301.4

316.33

Hcb

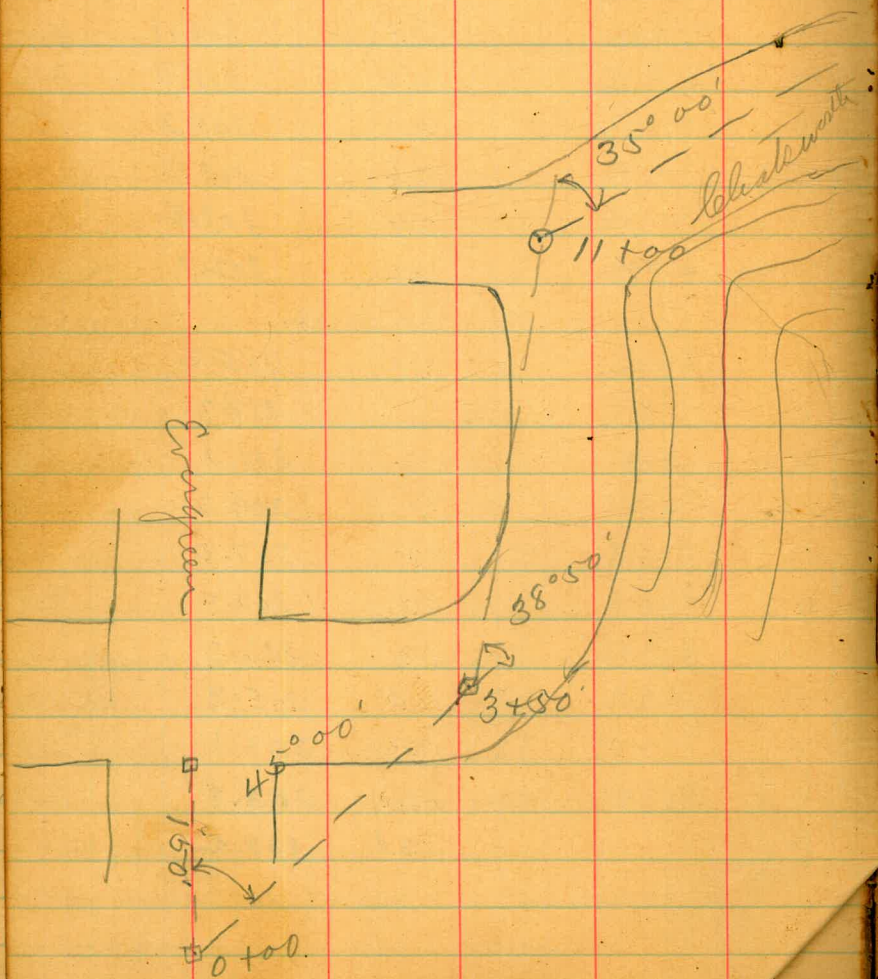
E	0.4	315.9
15	2.1	314.2
35	5.2	311.1
55	8.3	308.0
70	9.6	306.7
100	10.2	306.1
110	10.6	315.7
115	12.0	304.3
138	12.6	303.7
151	12.9	303.4
161 W	13.6	302.7

N. Robinson

E	0.7	315.6
15	2.1	314.2
35	5.2	311.1
50	7.1	309.2
65	9.3	307.0
80	9.3	307.0
100	10.0	306.3
110	11.0	305.3
130	12.2	304.1
135	12.5	303.8
150	13.1	303.2

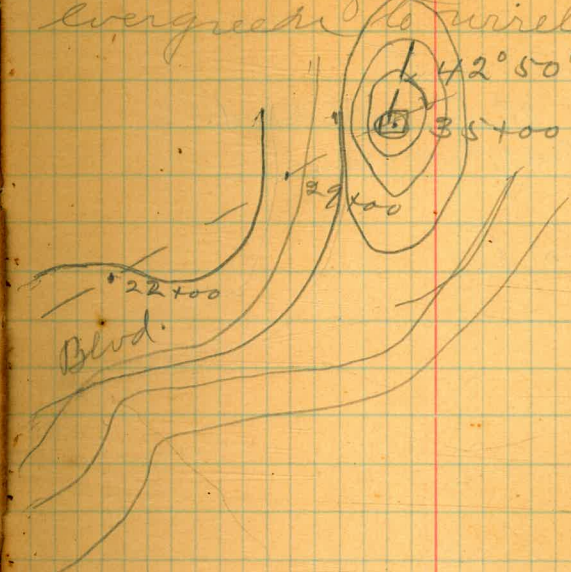
57

Traverse line from
 of Chatsworth Blvd. to center of



July 30/12
 Schilts
 Parker
 Sky 58
 miles

150' east of east line
 Evergreen to wireless Sta.



Cont. from page 58

Sta.

0+00 150' east of east
 1+00 line of Chatsworth Blvd.
 2+00 + center of Evergreen.

3+00

△ 4+50 88° 50' L

4+00

5+00

6+00

7+00

8+00

9+00

10+00

△ 11+00 35° 00' R

12+00

13+00

14+00

15+00

16+00

17+00

18+00

19+00

20+00

21+00

22+00 line leaves

23+00 Chatsworth Blvd.

cont. from page

Sta.

24+00

25+00

26+00

27+00

28+00

29+00 ^{Chateaufort}

30+00 ^{Blvd.}

31+00

32+00

33+00

34+00

△ 35+00 42° 50' L

36+00

37+00

38+00

39+00

40+00

41+00

42+00

43+00

△ +50 18° 05' R

44+00

45+00

46+00

47+00

59

Sta.

48+00

49+00

50+00

51+00

52+00

53+00

54+00

55+00

56+00

57+00

58+00

△ +14 73° 56' R

59+00

60+00

61+00

62+00

63+00

64+00

65+00

66+00

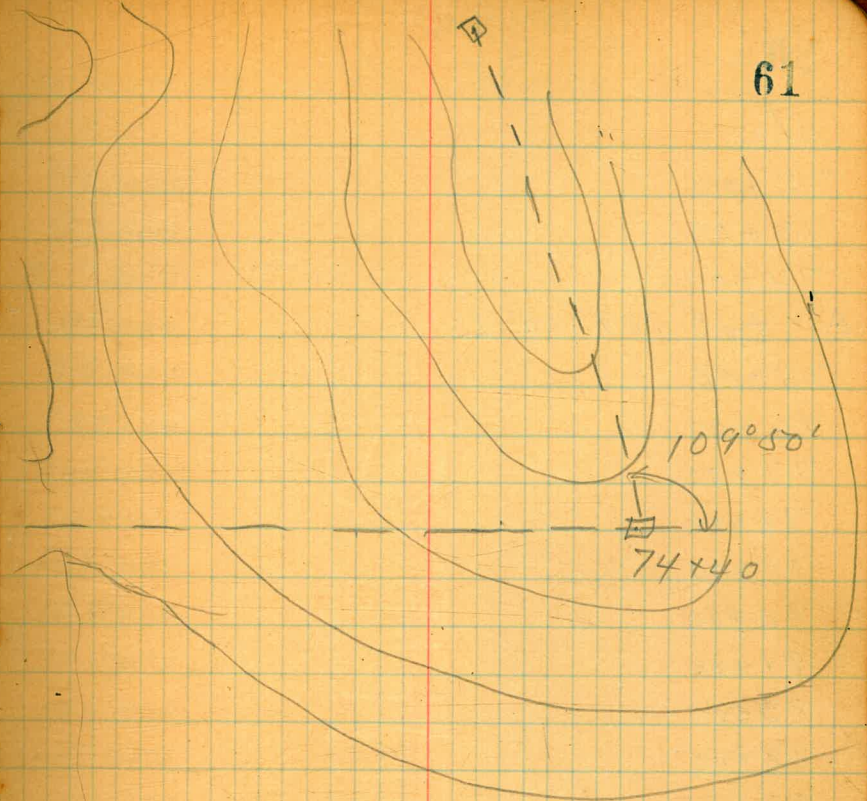
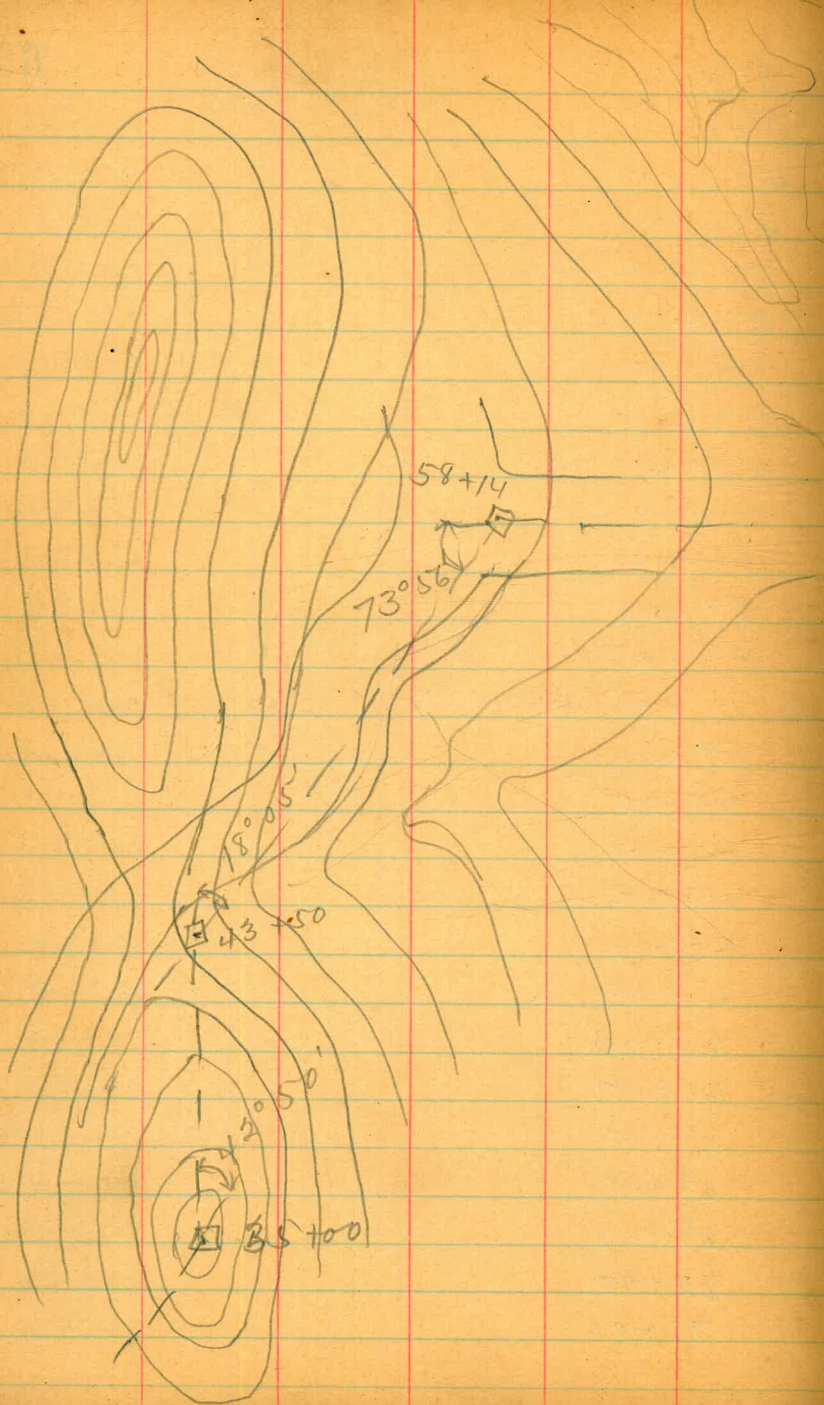
67+00

68+00

69+00

70+00

71+00



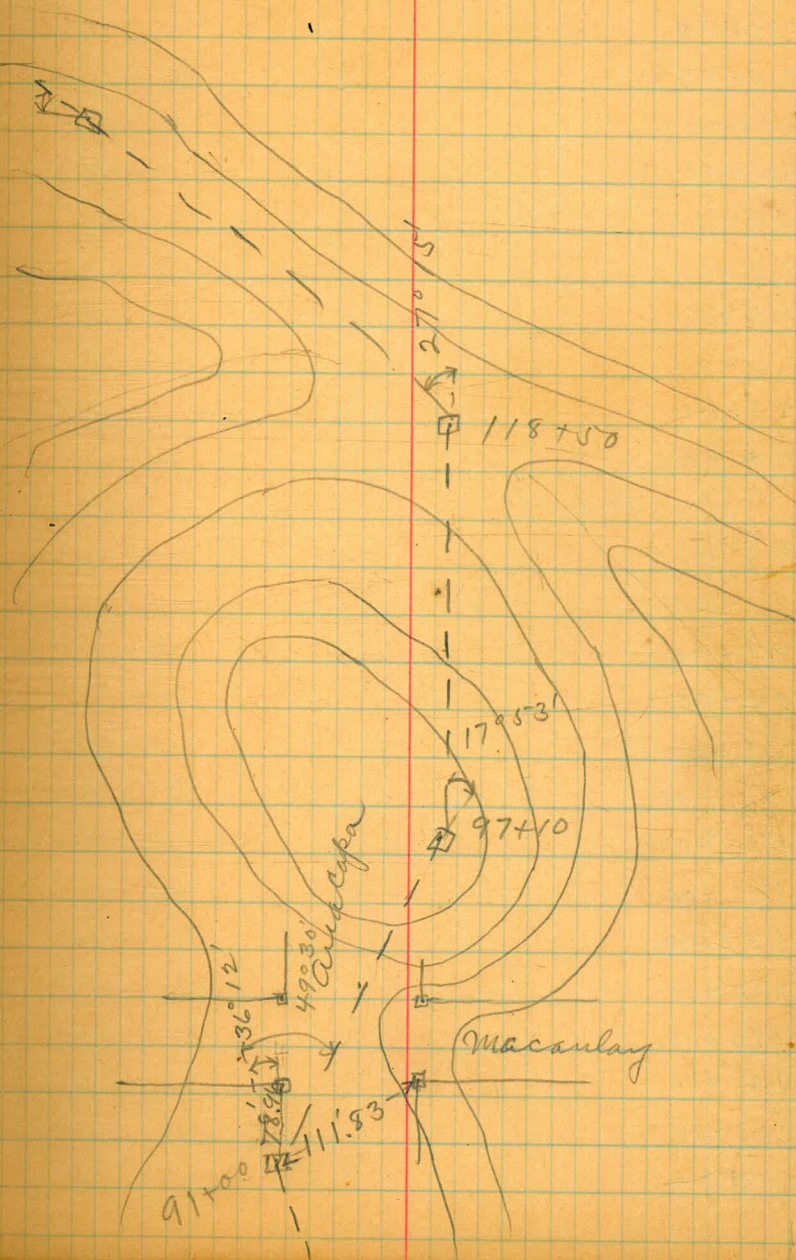
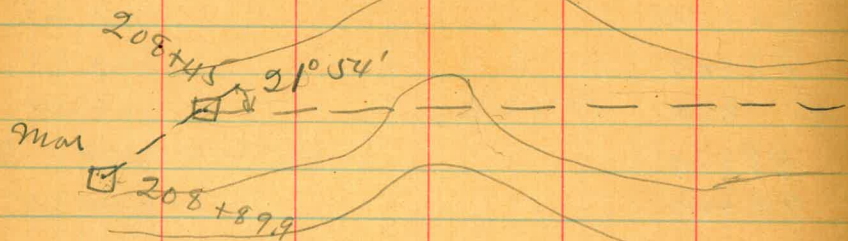
Cont. from page 60

July 31/12 } Childs
Fayl 62
Shidemaker

Sta
72+00
73+00
74+00
Δ +40 109° 50' L
75+00
76+00
77+00
78+00
79+00
80+00
81+00
82+00
83+00
84+00
85+00
86+00
87+00
88+00
89+00
90+00
Δ 91+00 49° 30' R.
92+00
93+00
94+00
95+00

Sta.
96+00
97+00
Δ +10 17° 53' L
98+00
99+00
100+00
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
Δ +50 27° 15' L

62 $\frac{1}{2}$



cont. from page 62

Sta

119+00

120+00

121+00

122+00

123+00

124+00

125+00

126+00

127+00

128+00

130 7° 50' L

129+00

130+00

131+00

132+00

133+00

134+00

135+00

136+00

137+00

138+00

139+00

140+00

141+00

142+00

Aug 1/12

Childs
Taylor 63
Shoemaker

Sta.

143+00

144+00

145+00

146+00

147+00

148+00

149+00

150+00

151+00

152+00

153+00

154+00

155+00

156+00

157+00

158+00

159+00

160+00

161+00

162+00

163+00

164+00

165+00

166+00

167+00

cont. from page 63

Sta.

168+00

169+00

170+00

171+00

172+00

173+00

174+00

175+00

176+00

177+00

178+00

179+00

180+00

181+00

182+00

183+00

184+00

185+00

186+00

187+00

188+00

189+00

190+00

191+00

192+00

Sta.

193+00

194+00

195+00

196+00

197+00

198+00

199+00

200+00

201+00

202+00

203+00

204+00

205+00

206+00

207+00

208+00

Δ +45 31° 54' L

208+89.9 monument center of Boulevard

+ Gov. Reservation line

A survey starting on the West line of Hawk's St 100' North of Douglas St & connecting with A line (see page 53), & known as B line for canyon Road.

Dec-13-12
 Run by
 D. J. ...
 Shaw
 Devine.

Sta 4 Rt 4 L

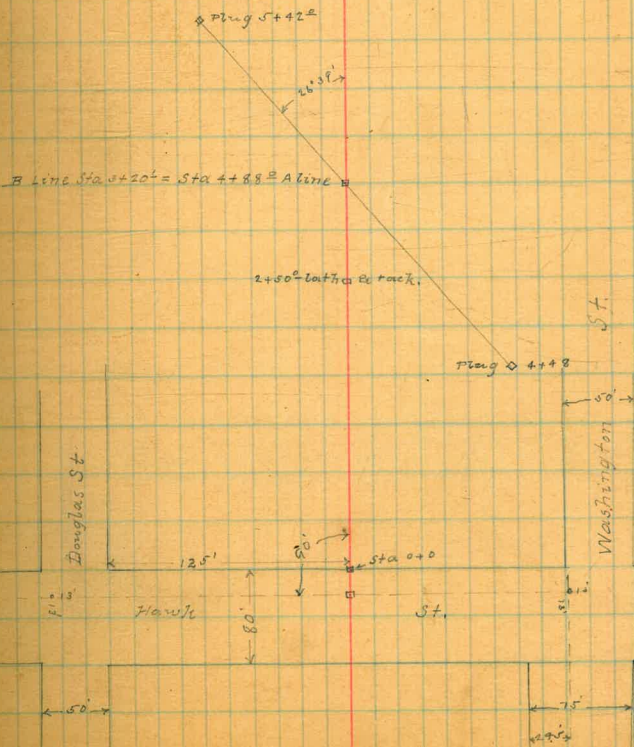
3+20+

26° 39'

4+50 P.O.T.

0+0

90° 0'



Levels on E Line from a point on the West line of Harok 12th North of Douglas to - Between A & B Line, see pages 67 & 68 this book.

Dec 18-12

Rumsey,
Danahy,
Shaw,
Bevine

B.M. 2624 Brass plug NE Cor of Harok & Washington

Sta	1.05	264.09		262.04
00			3.1	
+50			9.9	
H	0.50	251.91	12.68	251.41
+100			3.4	
+150			10.0	
+175			11.4	
+200			9.2	
+250			2.4	
+300			11.7	
H	0.97	240.46	12.92	239.49
+400 - 20 th line = +382.2 line.			15.3	

Set stakes on Park Blvd, from South line of University Ave. to the North line of the Park, Line 7' East of the Cen, & cen grades - 3.5

27th Sec. 65 RR Sp. P.C. 85 Co. Park Blvd & Cypress

Feb 10

27th Sec. 65 RR Sp. P.C. 85 Co. Park Blvd & University Ave

27th Sec. 65 RR Sp. P.C. 85 Co. Park Blvd & University Ave

27th Sec. 65 RR Sp. P.C. 85 Co. Park Blvd & University Ave

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27th Sec. 65 RR Sp. P.C. 85 Co. Park Blvd & University Ave

27th Sec. 65 RR Sp. P.C. 85 Co. Park Blvd & University Ave

300 - South line of University Ave on the East. 2.0 315.6 +4.2 314.70

150 2.6 315.3 +3.9 313.94

100 2.2 313.7 +4.2 312.97

50 2.5 312.4 +4.9 312.00

0+14 = North line of Essex St. 5.0 212.6 +5.0 310.77

0+20 = South " " " " 6.1 211.9 +5.5 309.81

150 6.9 311.0 +5.6 309.97

100 7.5 310.4 +6.0 307.92

50 8.0 309.8 +6.4 306.97

0+00 8.8 307.1 +6.6 306.02

0+50 9.2 303.7 +7.1 306.07

0+100 10.1 307.9 +7.2 304.12

0+150 11.1 306.9 +7.3 303.00

0+200 = North line of Robinson. 11.1 306.9 +7.3 303.00

0+200 = South line between SW Cor Robinson & Park Blvd & intersection W 2 of Indiana with Line of Park Blvd. 11.1 304.96

00 1.0 303.5 +5.7 301.32

+50 2.5 302.0 +4.4 301.11

+100 3.5 301.0 +3.6 300.80

+150 4.6 299.9 +2.9 300.69

+175 = Point of Reverse Curve 5.1 299.9 +2.0 300.49

(Note) I ran this curve to the Hub at the intersection of E line Park Blvd with west line of Indiana. I after wards found that was not the case, but as my central angle was only 8' off & curve 4' at worst, I let it go. The difference in length of curve however was about 10'

3 = 100' 54"
L = 194'
D = 90° 14.5"
R = 70° 49' 00"
a = 50' = 2' 1.30"
" 100 = 4' 3"
" 150 = 6' 2.30"
" 175 = 7' 2.67"

000 Point of Reverse curve. 300.49

+50 4.9 299.6 +2.3 300.18

+100 4.9 299.7 +3.1 300.07

+150 5.5 301.0 +4.6 299.90

+175 = North line Pennsylvania produced. 5.5 301.0 +4.6 299.90

Center grades of St

Station	Grade	Elevation	Notes
14.50			
24.00			
24.92 = South line of Pennsylvania produced.	3.4	+6.9	299.20
24.50	3.6	+6.9	299.13
24.00	4.3	+6.2	298.97
23.50	4.9	+5.8	298.81
24.00	5.5	+5.3	298.65
24.50	6.0	+5.0	298.49
25.00	6.0	+5.2	298.33
5+38.8 = North line of Cypress Ave.	5.7	+5.8	299.20
00 = South line of Cypress	4.6	+6.4	297.65
1.50	4.9	+6.5	297.40
14.00	4.9	+6.6	297.15
14.50	5.0	+6.3	296.90
24.00	5.3	+6.7	296.65
24.50	5.4	+6.9	296.40
3+00 = North line of Brooks	5.9	+6.6	296.15
00 = South line of Brooks	3.5	+6.4	295.9
1.50	3.9	+5.9	296.27
14.00	4.0	+5.6	296.18
14.50	4.2	+5.2	296.10
24.00	4.3	+4.9	296.07
24.50	4.5	+4.6	296.03
3+00 = North line of Myrtle	4.3	+4.6	296.9
00 = South line of Myrtle	3.6	+4.2	297.30
1.50	3.6	+4.5	297.00

301.76
306.102
3.47
366.87

301.59

Station	Grade	Elevation
14.00	4.0	+4.5
14.50	3.9	+4.8
24.00	3.8	+5.1
24.50	4.0	+5.3
3+00 = North line of Myrtle	4.4	+5.2

$\Delta = 5^{\circ} 40'$
 $L = 5+38.8$
 $PI = 7^{\circ} 56'$
 P = Point of Reverse Curve
 $+50 = 1^{\circ} 58'$
 $100 = 3^{\circ} 58'$
 $150 = 5^{\circ} 57'$
 $200 = 7^{\circ} 56'$
 $250 = 9^{\circ} 55'$
 $300 = 11^{\circ} 53'$
 $350 = 13^{\circ} 53'$
 $400 = 15^{\circ} 52'$
 $450 = 17^{\circ} 51'$
 $500 = 19^{\circ} 50'$
 $5+38.8 = 21^{\circ} 20' = \text{North line Cypress Ave}$

501.34 HI
 12.18
 306.44 HI

299.95
 - 6.24
 293.71
 + 1.29
 301.34 HI

302.34 HI
 - 4.34
 297.96
 + 2.62
 301.58 HI

Center grades of ST

50





70

77

Survey of the AT & SF Freight Shed, & Depot Grounds.

20

May 19th & 20th 1914.

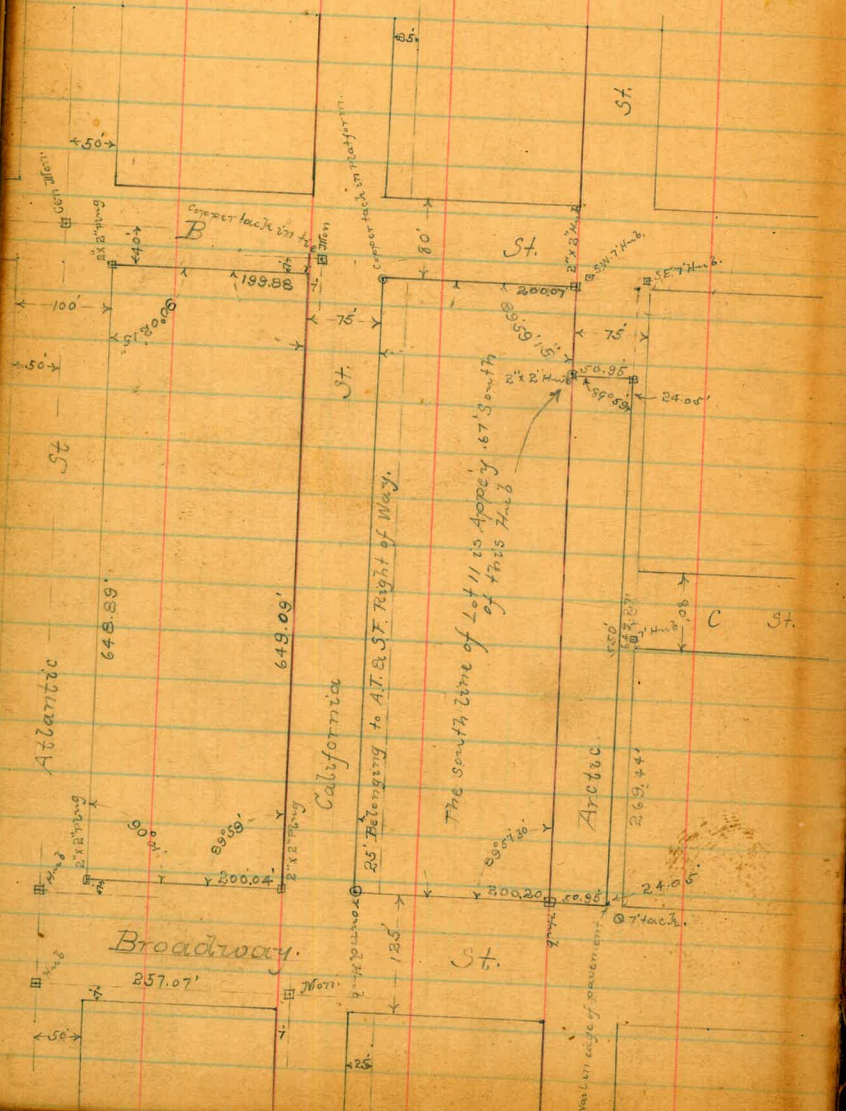
Shed & Survey by *CS & DP Co*

Donnan.
Miller.
Shaw.

C.W. Harris Chief Engineer AT & SF R.R.

1005 Kerckhoff Bldg.
Los Angeles
Cal.

Inspector Baer



79

Faint handwritten notes at the top of page 79.

$$\begin{array}{r}
 649.27 \\
 14 \\
 \hline
 663.27
 \end{array}$$

St.

50.95 649.27 75.00 251.02
 24.05 50.95
 50.95 251.02

#850

269.44 649.27
 80. 349.40
 349.44 297.83

605
 69
 720 = R

599.46
 197.74
 40 | 11.72 17.651

105
 27
 60
 77
 75
 20

17.451
 69
 59.604
 22.706
 50.664
 + 97.74
 539.204 = LC

239.00
 20.
 264.4
 253.9
 219.9
 38.0
 2.00

723.00
 722.79
 420.51

222.783
 115.19
 102.53

2100.13
 222.4

7° 56' cur DC
 3° 59' II for 100 Chryd.
 1° 59' " " " "

539.71

00 = P.C.
 150 = 11° 59'
 1400 = 3° 59'
 1450 = 5° 57'
 2400 = 7° 56'
 2450 = 9° 55'
 3400 = 11° 54'
 3450 = 13° 53'
 4400 = 15° 52'
 4450 = 17° 51'
 5400 = 19° 50'
 5728.11 = 21° 20'

1059
 1259
 2011.9'
 300.9'
 1° 59'
 4 1171
 50.571
 1° 59'
 116

A 15° 59'

150 = 20 1.2'
 1400 = 40 2.4
 1450 = 60 2.6'

1° 59'
 1 29
 50.58
 1 29
 4 67
 1059
 116

649.27
 99.94
 549.33

77 99.24
 99.27
 .67

RETURNS OUT. N.W. SW + SE 15th ✓
CORB — SOUTH SIDE 15th - 16th ✓

RETURN ✓ S.E. 16th ✓
CORB IN SE 18th ✓

RETURNS OUT NORTH SIDE 18-19th ✓
CORB — SOUTH — 19-20 ✓

100' E. 20th to 21st ✓
Rise to 100' E. N side ✓
Pushed out 64 to 83 E of R 4 ✓
out 100' to 200' E of R 4 ✓

Handwritten calculations and notes on the left page, including various numbers and small diagrams. Some numbers include superscripts like 2016, 3016, 4016, 5016, 6016, 7016, 8016, 9016, 10016, 11016, 12016, 13016, 14016, 15016, 16016, 17016, 18016, 19016, 20016, 21016, 22016, 23016, 24016, 25016, 26016, 27016, 28016, 29016, 30016, 31016, 32016, 33016, 34016, 35016, 36016, 37016, 38016, 39016, 40016, 41016, 42016, 43016, 44016, 45016, 46016, 47016, 48016, 49016, 50016, 51016, 52016, 53016, 54016, 55016, 56016, 57016, 58016, 59016, 60016, 61016, 62016, 63016, 64016, 65016, 66016, 67016, 68016, 69016, 70016, 71016, 72016, 73016, 74016, 75016, 76016, 77016, 78016, 79016, 80016, 81016, 82016, 83016, 84016, 85016, 86016, 87016, 88016, 89016, 90016, 91016, 92016, 93016, 94016, 95016, 96016, 97016, 98016, 99016, 100016.

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

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

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