A St 28th to 32nd.
C " 30th to 32nd.
(Box)
IBEX.
X Section Watkins Ave.

400

LEVEL

224

F.B. 224

Table showing the di[illegible] latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

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TABLE FOR RUNNING ON SLOPES.

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

MICROFILMED
DEC 8 1964

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
°		°		°		°	
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	4.5[illegible]	24	9.47	35	22.07

NW 35th C 177.74

232.66
100
+ 132.66

Cross-Sections of
Watkins Ave
Park to Dale - Despard to Story.

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208.16 A-28th SE Cor. N. Nozzle Hyd

232.66 A st 570' E of 30th Spk. Fence Cor

187.06 C st-30th NE Spk Phone Pole

Cross-sections

"A" Street

	7.22	212.40		205.18	(Sur Cor 28th A)
	E Line 28th				
N			3.4	209.0	
			3.6	208.8	
			3.5	208.9	
C			3.8	208.6	
			4.0	208.4	
			4.3	208.1	
S			4.8	207.6	
	25' E of 28th				
S			4.4	208.0	
			3.8	208.6	
			3.4	209.0	
C			3.2	209.2	
			3.0	209.4	
			2.9	209.5	
N			2.7	209.7	

212.4

50' E of 28th

N		2.4	210.0
		2.6	209.8
		2.7	209.7
C		3.2	209.2
		3.5	208.9
		3.8	208.6
S		4.2	208.2

75' E of 28th

S		4.7	207.7
		4.3	208.1
		4.1	208.3
C		3.6	208.8
		3.3	209.1
		3.2	209.2
N		2.8	209.6

100' E

N		3.3	209.1
		3.9	208.5
		4.0	208.4
C		4.3	208.1
		4.4	208.0
		4.6	207.8
S		4.8	207.6

125' E

S		5.2	207.2
		5.0	207.4
		4.7	207.7
C		4.4	208.0
		3.7	208.7
		4.0	208.4
N		3.7	208.7

212.4

150' E of 28th

N		3.4	209.0
		4.0	208.4
		4.3	208.1
C		4.6	207.8
		4.8	207.6
		5.1	207.3
S		5.3	207.1

174' E of 28th = W Line Bean

S		5.2	207.2
		4.9	207.5
		4.8	207.6
C		4.6	207.8
		4.3	208.1
		4.2	208.2
N		5.2	207.2

W Cb Bean

N		5.7	206.7
		4.5	207.9
		4.6	207.8
C		4.7	207.7
		5.0	207.4
		5.1	207.3
S		5.3	207.1

W 1/4 Bean

S		5.4	207.0
		5.4	207.0
		5.1	207.3
C		4.9	207.5
		4.7	207.7
		5.0	207.4
N		6.1	206.3

212.4

Or. Bear

N	5.9	206.5
	5.1	207.3
	5.0	207.4
C	5.1	207.3
	5.2	207.2
	5.7	206.7
S	5.7	206.7

E 1/4 Bear.

S	5.8	206.6
	5.7	206.7
	5.4	207.0
C	5.4	207.0
	5.1	207.3
	5.3	207.1
N	5.8	206.6

E Cl. Bear.

N	5.8	206.6
	5.3	207.1
	5.3	207.1
	5.5	206.9
	5.6	206.8
	5.8	206.6
S	6.1	206.3

E Line Bear.

S	6.4	206.0
	6.1	206.3
	5.8	206.6
C	5.7	206.7
	5.4	207.0
	5.6	206.8
N	5.7	206.7

212.4

25' E of Bean

N	5.4	207.0
	5.7	206.7
	5.9	206.5
C	6.2	206.2
	6.3	206.1
	6.6	205.8
S	6.8	205.6

50' E of Bean

S	7.5	204.9
	7.2	205.2
	7.0	205.4
C	6.7	205.7
	6.7	205.7
	6.5	205.9
N	6.5	205.9

75' E of Bean

N	8.3	204.1
	8.2	204.2
	8.1	204.3
C	8.2	204.2
	8.4	204.0
	8.6	203.8
S	8.8	203.6

100' E of Bean

S	10.6	201.8
	10.4	202.0
	10.3	202.1
C	10.3	202.1
	10.8	201.6
	10.6	201.8
N	10.6	201.8

T.P	0.19	200.70	11.89	200.51	
	125' E of Bean				
N			2.6	198.1	
			2.3	198.4	
			2.8	197.9	
C			2.3	198.4	
			2.0	198.7	
			2.0	198.7	
S			2.1	198.6	
	150' E				
S			8.7	192.0	✓
			8.4	192.3	
			8.6	192.1	
C			9.0	191.7	
			8.1	192.6	
			8.4	192.3	
N			8.6	192.1	

T.P	0.30	189.26	11.74	188.96
	175' E of Bean			
N			10.6	178.7
			10.3	179.0
			10.0	179.3
C			9.1	180.2
			7.3	182.0
			5.6	183.7
S			6.4	182.9
	300' E of Bean			
T.P	3.78	185.07	12.97	176.29
S			10.3	174.8
			11.4	173.7
			12.6	172.5
C			13.2	171.9
			12.9	172.2
			12.5	172.6
N			12.6	172.5

185.07

225' E of Beam

N			4.8	180.3
			6.4	178.7
			7.8	177.3
C			9.7	175.4
			11.5	173.6
			12.6	172.5
S			14.0	171.1

250' E of Beam

S			9.5	175.6
cb			8.4	176.7
1/4			6.2	179.9
a			2.4	182.7
TP	12.22	192.19	5.10	179.97
1/4			8.0	184.2
cb.			6.6	185.6
N			6.0	186.2

275' E of Beam

S			10.1	182.1 ✓
cb.			7.1	185.1
1/4			6.1	186.1
C			5.5	186.7
1/4			4.0	188.2

306' E of Bean = W line 29th

Cr.			1.7	190.5
1/4			3.7	188.5
cb.			5.8	186.4
S.			10.6	181.6

W cb 29th

S			10.3	181.9
cb.			5.6	186.6
1/4			2.1	190.1
C			6.0	192.2

T.P.	13.09	204.74	0.54	191.65
295' E of Bean				
N			13.0	191.7
cb.			14.4	190.3
W Line 29th				
N.			6.4	198.3
cb.			8.2	196.5
1/4			10.9	193.8
W cb. 29th				
1/4			9.5	195.2
cb			6.7	198.0
N.			5.1	199.6
W 1/4 29th				
N.			3.9	200.6
cb.			5.2	199.5
1/4			7.6	197.1
C			10.9	193.8
1/4			13.6	191.1
Cr. 29th St.				
5 1/4			12.2	192.5
cr.			9.8	194.9
1/4			6.7	198.0
cb.			4.5	200.2
N.			3.1	201.6
E 1/4 29th St				
N.			2.8	201.9
cb.			4.3	200.4
1/4			6.2	198.5
C			8.9	195.8
1/4			11.6	193.1
E cb. 29th St				
3/4			11.1	193.6
C			9.3	195.4

		204.74		
1/4			6.4	198.3
cb.			3.9	200.8
N.			2.4	202.3
	E Line 29th St.			
N			2.5	202.2
cb.			4.2	200.5
1/4			6.4	198.7
C			9.0	195.7
1/4			11.5	193.2
T.P.	3.41	197.18	10.97	193.77
	W 1/4 29th St.			
S 1/4			7.0	190.2
cb.			9.8	187.4
S.			14.6	182.6
	Cr 29th St.			
S			14.1	183.1

{Spk. = Cor of fence about 100 W of 29th St}			7.56 189.62 189.64	B.M. Sem T#6
cb.			8.6	188.6
	E 1/4 29th St.			
cb.			8.1	189.1
S			12.1	185.1
	E Cb. 29th St.			
S			11.0	186.2
Cb.			7.4	189.8.
	E line 29th.			
cb.			8.0	189.2
S			11.7	185.5
	25' E of 29th			
S			15.7	181.5
S.			15.7	181.5
cb.			9.5	187.7
1/4			4.6	192.6
C			1.4	195.8

		197.18		
	50' E of 29+			
C			3.1	194.1
1/4			8.1	189.1
Sh			13.9	183.3
T			15.2	182.0
S			16.3	181.9
	75' E of 29+			
S			12.3	184.9
G			14.6	182.6
Sh			11.4	185.8
1/4			6.5	190.7
C			2.8	194.4
	100' E of 29+			
C			2.0	194.2
1/4			8.9	188.3
T			13.1	184.1
Sh			12.2	185.0
S			8.6	188.6
	125' E of 29+			
S			3.8	193.4
Sh			7.8	189.4
1/4			11.3	185.9
C			5.7	191.5
	150' E of 29+			
C			5.5	191.7
T			10.4	186.8
1/4			9.1	188.1
Sh			4.3	192.9
S			0.0	197.2
TP	8.77	204.84	11	196.07
	25' E of 29+			
N			1.5	203.0
Sh			5.0	199.8

	204.84	
1/4	6.7	198.1
50' E of 29th		
N	2.8	202.0
ch.	5.3	199.5
1/4	7.1	197.7
75' E of 29th		
1/4	6.9	197.9
ch	4.8	200.0
N	3.5	201.3
100' E of 29th		
N	3.0	201.8
ch.	4.8	200.5
1/4	6.1	198.7
125' E of 29th		
1/4	7.2	197.6
ch.	3.5	201.3
N	2.1	202.7

150' E of 29th		
N	1.2	203.6
ch.	3.0	201.8
1/4	6.3	198.5
175' E of 29th		
N	0.3	204.5
ch	3.7	201.1
1/4	9.7	195.1
C	17.3	187.5
1/4	10.4	194.4
ch.	6.9	197.9
S	2.7	202.1
200' E of 29th		
sch.	1.4	203.4
1/4	5.7	199.1
C	10.0	194.8

		2048			
1/4			13.5	191.3	
5'			15.2	189.6	
ch.			9.7	195.1	
	225 E of	29th			
N.			7.1	197.7	
10'			13.0	191.8	
ch.			10.7	194.1	
1/4			6.1	198.7	
C			0.7	204.1	
	150' E of	29th			
1/4			1.3	203.5	
ch.			5.3	199.5	
10'			8.5	196.0	
12'			11.0	193.8	
N.			9.4	195.4	

2047

	275' E of	29th			
N.			3.1	201.7	
T.P.	12.89	216.69	1.04	203.80	Rock on E of Rail
	300' E of	29th			
N.			15.0	201.7	
S			10.4	206.3	
	325' E of	29th			
S			7.6	209.1	
ch.			8.7	208.0	
1/4			10.3	206.4	
	350' E of	29th			
S			4.1	212.6	
ch.			5.2	211.5	
1/4			6.0	210.7	
C			8.1	208.6	

7/16/06 Hatch, Hawkins, Moore

216.69

275' E of 29th

S		1.2		215.5
ab		1.5		215.2
1/4		1.9		214.8
C	/	3.3		213.4
1/4		7.1		209.6
d.		11.2		205.5

300' E of 29th

N.		8.7		208.0
T.P.	9.84	225.78 ✓	0.75	215.94 ✓
ab.		13.3		212.5
1/4		11.3		214.5
c		9.5		216.3
1/4		8.7		217.1
d.		8.3		217.5
S		8.2		217.6

225.78

325' E of 29th

N.	13.6	212.2	2
ab.	11.2	213.6	
1/4	9.7	215.1	
c	8.4	216.4	
1/4	7.6	218.2	
d.	7.1	218.7	
S	6.8	219.0	

350' E of 29th

S	5.8	220.0
ab	6.4	219.4
1/4	6.7	219.1
c	7.2	218.6
1/4	8.0	217.8
d.	8.8	217.0
N.	9.5	216.3

		22578			
	375' E of 29th				
N			7.0		218.8
ab			6.7		219.1
1/4			6.3		219.5
c			5.8		220.0
1/4			5.4		220.4
ab			5.2		220.6
S			4.7		221.1
	395.5 E of 29th = W Line 30th in South Park produced.				
S			4.0		221.8
ab			4.3		221.5
1/4			4.5		221.3
c			4.7		221.1
1/4			4.9		220.9
ab			5.4		220.4
N			5.7		220.1

				270' E of BM. 30th-A
			0.15	
			232.65	
			232.66	
		22578		
T.P.	8.48	232.80	14.6	224.32
	E. Line 30th St. in E W. Morse add.			
S			6.2	226.6
ab			6.1	226.7
1/4			5.7	227.1
c			5.4	227.4
1/4			4.8	228.0
ab			5.0	227.8
N			4.7	228.1
	25' E of 30th			
N			4.6	228.2
ab			5.0	227.8
1/4			5.1	227.7
c			5.5	227.3
1/4			5.6	227.2
ab			5.6	227.2
S			5.6	227.2

232.80

50' E of 30 Hk

S	5.9	226.9
A	5.7	227.1
1/4	5.4	227.4
C	5.4	227.4
1/4	5.3	227.5
B	5.0	227.8
N	4.7	228.1

75' E of 30 Hk

N.	4.6	228.2
B.	4.6	228.2
1/4	4.6	228.2
C.	4.7	228.1
1/4	4.8	228.0
D.	5.0	227.8
S	5.4	227.4

232.80

100' E of 30 Hk

S	5.1	227.7
B.	5.0	227.8
1/4	4.9	227.9
C	4.7	228.1
1/4	4.7	228.1
D.	4.6	228.2
N	4.4	228.4

125' E of 30 Hk

N.	3.7	229.1
B.	3.8	229.0
1/4	4.1	228.7
C	4.3	228.5
1/4	4.3	228.5
A	4.5	228.3
S	4.7	228.1

232.80

150' E of 30th

S	4.6	228.2
cb.	4.2	228.6
1/4	4.0	228.8
C	3.9	228.9
1/4	3.7	229.1
cb.	3.4	229.4
N	3.9	229.4

175' E of 30th

N.	3.5	229.3
cb.	3.6	229.2
1/4	3.8	229.0
C	3.9	228.9
1/4	4.1	228.7
cb	4.3	228.5
S	4.5	228.3

232.80

200' E of 30th

S	4.6	228.2
cb.	4.5	228.3
1/4	4.1	228.7
C	3.9	228.9
1/4	3.8	229.0
cb	3.5	229.3
N	3.4	229.4

225' E of 30th

N.	3.6	229.2
cb	3.7	229.1
1/4	3.9	228.9
C	4.1	228.7
1/4	4.3	228.5
cb.	4.6	228.2
S	4.8	228.0

23280

250' E of 30th

S		5.1	227.7
ab		4.8	228.0
1/4		4.4	228.4
a		4.1	228.7
1/4		4.2	228.6
ab		3.9	228.9
N		3.6	229.2

275' E of 30th

N		4.9	227.9
ab		5.1	227.7
1/4		5.2	227.6
a		5.4	227.4
1/4		5.4	227.4
ab		5.5	227.3
S		5.7	227.1

23280

300' E of 30th

S		8.7	224.1
		8.2	224.6
		8.1	224.7
a		8.1	224.7
		8.2	224.6
		8.2	224.6
N		8.2	224.6

325' E of 30th

N		11.3	221.5
		11.4	221.4
		11.7	221.1
a		12.0	220.8
		12.1	220.7
		12.4	220.4
S		12.5	220.3

		232.80		
TP	263	232.21	12.22	220.58
	350' E of 30th			
S.			6.7	216.5
ab.			6.5	216.7
1/4			6.8	216.4
c			6.6	216.6
1/4			6.4	216.8
d.			6.3	216.9
N.			6.5	216.7
	375' E of 30th			
N.			10.5	212.7
ab.			10.0	213.2
1/4			10.5	212.7
c			11.0	212.2
1/4			11.5	211.7
d.			11.5	211.7
S			11.3	211.9

		223.21		
	385' E of 30th			
S.			18.2	205.0
ab			17.3	205.9
1/4			14.0	209.2
c			13.9	209.3
1/4			13.3	209.9
ab.			12.4	210.8
N.			11.4	211.8
	400' E of 30th			
N.			8.7	214.5
ab.			9.8	213.4
1/4			10.5	212.7
c			11.5	211.7
1/4			12.6	210.6
d.			13.0	210.2
S			13.3	209.9

223.21

425' E of 30th St

S	11.4	211.8
cb	10.4	212.8
1/4	9.3	213.9
C	8.5	214.7
1/4	7.7	215.5
cb	7.0	216.2
N	6.3	216.9

450 E of 30th St.

N	4.5	218.7
cb	5.0	218.2
1/4	5.5	217.7
C	6.4	216.8
1/4	7.2	216.0
cb	7.9	215.3
S	8.9	214.3

223.21

475' E of 30th

S	7.4	215.8
cb	6.4	216.8
1/4	5.5	217.7
C	4.7	218.5
1/4	4.1	219.1
cb	3.5	219.7
N	3.0	220.2

500' E of 30th

N	1.9	221.3
cb	2.3	220.9
1/4	2.8	220.4
C	3.3	219.9
1/4	4.4	218.8
cb	5.5	217.7
S	6.9	216.3

		223.21		
	525' E of	30th		
S		6.0	217.2	
ab		4.6	218.6	
1/4		3.7	219.5	
C		3.0	220.2	
1/4		2.4	219.8	
ab		1.9	221.3	
N		1.2	222.0	
	550' E of	30th		
N		4.6	222.6	
ab		1.2	222.0	
1/4		1.8	221.4	
C		2.9	220.3	
1/4		4.0	219.2	
ab		4.3	218.9	
S		4.4	218.8	

		223.21		
T.P	1279	23324	2.76	220.45
	575' E of	30th		
S			11.5	221.7
			11.7	221.5
			11.2	222.0
C			11.2	222.0
			11.0	222.2
			10.5	222.7
N			9.8	223.4
	601' E of	30th	W line	31 ab
N			9.4	223.8
			9.5	223.7
			9.6	223.6
C			9.5	223.7
			9.6	223.6
			9.6	223.6
			9.8	223.4

233.24

W Cl. 31 Pt.

S		9.4	223.8
		9.2	224.0
		9.0	224.2
		9.0	224.2
		8.9	224.3
		8.8	224.4
		8.6	224.6

W 1/4 31 Pt

N		8.2	225.0
		8.5	224.7
		8.5	224.7
		8.6	224.6
		8.7	224.5
		8.8	224.4
		9.1	224.1

233,24

Cr. 31 Pt

S		8.7	224.5
		8.3	224.9
		8.1	225.1
		8.1	225.1
		7.9	225.3
		7.9	225.3
		7.9	225.3

E 1/4 31 Pt

N		7.7	225.5
		7.6	225.6
		7.7	225.5
		7.8	225.4
		7.8	225.4
		7.9	225.3
		8.2	225.0

233.24

E Cl. 31st

S	8.2	225.0
	7.8	225.4
	7.7	225.5
	7.4	225.8
	7.2	226.0
	7.2	226.0
	7.2	226.0

E Line 31st

N.	6.9	226.3
	7.0	226.2
	7.2	226.0
	7.4	225.8
	7.7	225.5
	7.8	225.4
	8.1	225.1

233.24

25' E of 31st

S	7.7	225.5
	7.3	225.9
	7.1	226.1
	6.9	226.3
	6.7	226.5
	6.4	226.8
	6.1	227.1

50' E of 31st

N.	5.7	227.5
	6.0	227.2
	6.3	226.9
	6.7	226.5
	6.8	226.4
	6.9	226.3
	7.2	226.0

2.3.24

75' E of 31st

S	7.0	226.2
	6.5	226.7
	6.4	226.8
C	6.3	226.9
	5.9	227.3
	5.7	227.5
	5.1	228.1

150' E of 31st

N.	4.6	228.6
	5.3	227.9
	5.7	227.5
C	6.2	227.0
	6.4	226.8
	6.8	226.4
	7.0	226.2

2.3.24

125' E of 31st

S.	6.7	226.5
	6.3	226.9
	6.0	227.2
C	5.1	228.1
	4.7	228.5
	4.6	228.6
	4.1	229.1

150' E of 31st

N.	4.0	229.2
	4.4	228.8
	5.1	228.1
C	5.4	227.8
	5.9	227.3
	5.9	227.3
	5.9	227.3

233.24

175' E of 31st

S			5.5	227.7
			5.1	228.1
			5.1	228.1
C			4.7	228.5
			4.4	228.8
			4.3	228.9
			3.9	229.3

200' E of 31st

N			3.4	229.8
			4.0	229.2
			4.3	228.9
			4.5	228.7
			4.8	228.4
			5.1	228.1
			5.3	227.9

233.24

225' E of 31st

S			5.0	228.2
			5.2	228.0
			4.6	228.6
C			4.0	229.2
			3.9	229.3
			3.7	229.5
			3.3	229.9

250' E of 31st

N			3.2	230.0
			3.2	230.0
			3.9	229.3
			4.2	229.0
			4.7	228.5
			4.9	228.3
			5.0	228.2

233.24

275 E of 31st

S	5.1	228.1
	4.6	228.6
	4.2	229.0
	3.4	229.8
	2.8	230.4
	3.2	230.0
	2.7	230.5

300 E of 31st

N	2.5	230.7
	2.8	230.4
	3.1	230.1
	3.6	229.6
	4.1	229.1
	4.5	228.7
	5.1	228.1

233.24

325 E of 31st

S	5.5	227.7
	4.1	229.1
	3.8	229.4
	3.8	229.4
	3.3	229.9
	2.9	230.3
	2.7	230.5

350 E of 31st

N	3.8	229.4
	3.8	229.4
	4.1	229.1
	4.3	228.9
	4.6	228.6
	4.8	228.4
	5.1	228.1

233.24

375' E of 21st

S	6.8	226.9
	5.9	227.3
	5.7	227.5
	5.5	227.7
	5.3	227.9
	5.1	228.1
	4.9	228.3

400' E of 31st

N	6.6	226.6
	6.5	226.7
	6.6	226.6
	6.8	226.4
	7.0	226.2
	7.1	226.1
	7.3	225.9

233.24

421 E of 31st

S	8.8	224.4
	8.5	224.7
	8.2	225.0
	7.8	225.4
	7.7	225.5
	7.5	225.7
	7.2	226.0

425 E of 31st

N	10.2	223.0
	10.2	223.0
	10.2	223.0
	10.2	223.0
	10.2	223.0
	10.1	223.1
	10.1	223.1

		233.24		
T.P.	0.15	220.85	12.54	220.70
	450' E of 31 Rt			
S			2.3	218.6
			2.3	218.6
			2.5	218.4
			2.4	218.5
			2.6	218.3
			2.8	218.1
			2.9	218.0
	475 E of 31 Rt			
N			9.9	211.0
			9.4	211.5
			9.4	211.5
			9.4	211.5
			9.3	211.6
			8.6	212.3
			8.6	212.3

		220.85		
T.P.	0.05	21 8.16	12.74	208.11
	500' E of 31 Rt			
S			1.2	207.0
			1.8	206.4
			2.4	205.8
			3.4	204.8
			4.0	204.2
			4.3	203.9
			4.6	203.6
	525' E of 31 Rt			
N.			11.3	196.9
			10.5	197.7
			10.4	197.8
			10.6	197.6
			9.9	198.3
			9.6	198.6
			9.3	198.9

		208.16		
T.P.	6.02	195.08	13.10	195.06
	55-0 'E of 31st			
S			4.0	191.1
			4.3	190.8
			3.9	191.2
			3.8	191.3
			4.0	191.1
			4.2	190.9
			6.5	188.6
	575 'E of 31st			
S			11.3	183.8
cb			10.2	184.9
1/4			10.4	184.7
c			12.0	183.1
1/4			13.4	181.7
T.P.	1.44	184.32	12.20	182.88
cb.			4.0	180.3

		184.32		
N.			6.7	177.6
	602 'E of 31st = W Line 32d			
S			9.23	175.09 B.M.
cb.			8.5	175.8
1/4			9.3	175.0
c			10.7	173.6
1/4			12.1	172.2
cb.			13.5	170.8
N.			16.1	168.2

POSTED

C Street 2/16/06 Hatch Hawkins Moore

30th — 32d

BM	1283	19989		187.06	
	E line 30th				
N.			10.1		189.8
cb.			13.0		186.9
1/4			13.9		186.0
c			15.7		184.2
1/4			16.3		183.6
cb.			17.7		182.2
S			19.3		180.6
	25' E of 30th				
S			10.2		189.7
cb.			11.0		188.9
1/4			11.7		188.2
c			11.0		188.9
1/4			10.0		189.9
cb.			9.3		190.6
N			7.6		192.3

		19989			
	50' E of		30th		
N.			0.7		199.2
cb			3.8		196.1
1/4			4.9		195.0
c			6.1		193.8
1/4			6.3		193.6
cb.			6.2		193.7
S			5.3		194.6
	75' E of 30th				
S			0.7		199.2
			1.1		198.8
			1.5		198.4
			0.8		199.1
			0.1		199.8
			+0.8	200.7	
			+1.0	200.9	
TP.	11.13	21048	054	199.35	

2/17/06 {Hatch, Hawkins, Moore}

		210.48			
	100' E of 30th				
N			6.8	203.7	
cb			7.3	203.2	
1/4			7.6	202.9	
e			8.1	202.4	
1/4			8.2	202.3	
cb			8.0	202.5	
S			7.8	202.7	
	125' E of 30th				
S			4.8	205.7	
cb			5.4	205.1	
1/4			5.5	205.0	
e			5.8	204.7	
1/4			5.4	205.1	
cb			5.4	205.1	
N			5.0	205.5	
TP	6.86 (Rock)	213.43	3.91	206.57	

		213.43			
	150' E of 30th				
S			5.5		207.9
			5.9		207.5
			6.4		207.0
			6.0		207.4
			6.2		207.2
			5.7		207.7
N			5.8		207.6
	175' E of 30th				
N			4.3		209.1
			4.3		209.1
			4.4		209.0
			4.4		209.0
			4.5		208.9
			4.6		208.8
S			4.7		208.7

213.43

200' E of 30th

S		3.7	209.7
		3.6	209.8
		3.5	209.9
		3.1	210.3
		3.2	210.2
		2.6	210.8
N		2.9	210.5

225' E of 30th

N		2.1	211.3
		2.6	210.8
		2.8	210.6
		2.7	210.7
		3.2	210.2
		3.4	210.0
S		3.6	209.8

213.43

250' E of 30th

S		4.0	209.4
		3.7	209.7
		3.4	210.0
		2.4	211.0
		2.8	210.6
		2.3	211.1
N		1.9	212.5

275' E of 30th

N		2.3	211.1
		2.4	211.0
		2.5	210.9
		2.7	210.7
		3.0	210.1
		3.6	209.8
S		4.0	209.4

21343

300' E of 30th

S		4.4	209.0
		3.9	209.5
		3.5	209.9
		3.0	210.4
		2.8	210.6
		2.6	210.8
N		2.2	211.2

325' E of 30th

N.		3.4	210.0
		3.5	209.9
		3.6	209.8
		3.9	209.5
		4.3	209.1
		4.4	209.0
S		5.1	208.3

21343

350' E of 30th

S		6.7	206.7
		6.3	207.1
		6.0	207.4
		5.C	207.8
		5.2	208.2
		5.0	208.4
N		4.8	208.6

375' E of 30th

N.		7.9	205.5
		8.3	205.1
		8.9	204.5
		9.4	204.0
		9.3	204.1
		8.9	204.5
S		8.9	204.5

213.43

400' E of 30th

S	12.0	201.4	
	11.7	201.7	
	11.1	202.3	
	10.9	202.5	
	10.6	202.8	
	10.5	202.9	
N	9.9	203.5	

425' E of 30th

N	12.0	201.4	
	12.5	200.9	
	12.8	200.6	
	13.3	200.1	
	13.1	200.3	
	13.5	199.9	
S	13.9	199.5	
T.P. 154	202.23	12.74	200.69

202.23

450' E of 30th

S	5.1	197.1	
	4.8	197.4	
	4.5	197.7	
	4.3	197.9	
	4.1	198.1	
	3.4	198.8	
N	3.0	199.2	

475' E of 30th

N	6.3	195.9	
	6.3	195.9	
	6.6	195.6	
	7.1	195.1	
	7.5	194.7	
	8.3	193.9	
S	8.9	193.3	

202.23

500' E of 30th

S			12.4	189.8
			11.3	190.9
			11.3	190.9
			10.5	190.3
			10.2	192.0
			9.7	192.5
N			9.6	192.6
T.P.	0.35	189.63	12.95	189.28

525' E of 30th

N			5.7	183.9
			4.1	185.5
			4.1	185.5
			4.2	185.4
			4.7	184.9
			6.0	183.6
S			7.4	182.2

189.63

550' E of 30th

S			15.7		173.9
			13.0		176.6
			12.0		177.6
			11.8		177.8
			11.2		178.4
			12.2		177.4
N			12.6	177.0	177.0
T.P.	3.41	180.33	12.71	176.92	

575' E of 30th

N			12.5		167.8
			8.3		172.0
			8.5		171.8
			9.5		170.8
			12.4		167.9
			13.5		166.8
S			15.0		165.3
T.P.	2.58	170.11	12.80	167.53	

170.11

601' E of 30th = W Line 31st

S		17.2	152.9	
		14.0	156.1	
		10.7	159.4	
		8.6	161.5	
		7.7	162.4	
		8.1	162.0	
N		10.5	159.6	
T.P.	4.33	12.06	158.05	

W. Cl. 31st

N		4.4	158.0	
		4.4	158.0	
		5.1	157.3	
		5.7	156.7	
		7.1	155.3	
		8.8	153.6	
S		12.9	149.5	

162.38

W 1/4 31st

S		14.3	148.1	
		11.3	151.1	
		10.3	152.1	
		9.3	153.1	
		9.5	152.9	
		8.2	154.2	
N		6.3	156.1	

Cr. 31st

N		11.0	151.4	
		10.2	152.2	
		9.7	152.7	
		10.7	151.7	
		11.3	151.1	
		11.6	150.8	
S		9.4	153.0	

				162.38	
			E 1/4 31st		
S			5.0	157.4	
			5.9	156.5	
			5.9	156.5	
			5.5	156.9	
			4.5	157.9	
			4.3	158.1	
N			4.4	158.0	
T.P.	11.13	171.98	2.15	159.85	
			E Cl. 31st		
N			8.6	162.4	
			9.0	162.0	
			10.3	160.7	
			11.3	159.7	
			11.2	159.8	
			11.6	159.4	
S			8.8	161.2	

				170.98	
			E Line 31st		
S			5.2	165.8	
			6.0	165.0	
			7.7	163.3	
			8.1	162.9	
			6.9	164.1	
			5.6	165.4	
N			3.9	167.1	
T.P.	12.90	183.80	0.08	170.90	
			25' E of 31st		
N			7.2	176.6	
			9.5	174.3	
			11.2	172.6	
			10.7	173.1	
			9.8	174.0	
			9.6	174.2	
S			9.1	174.7	
T.P.	12.80	195.99	0.61	183.19	

		195.99		
	50' E of 31st			
S			12.2	183.8
			12.2	183.8
			12.1	183.9
			11.8	184.2
			11.0	185.0
			10.6	185.4
N			9.3	186.7
	75' E of 31st			
N			3.4	192.6
			4.2	191.8
			4.6	191.4
			5.0	191.0
			5.1	190.9
			5.2	190.8
S			5.6	190.4

		195.99		
	100' E of 31st			
S			2.0	194.0
			1.1	194.9
			1.2	194.8
			0.8	195.2
			0.3	195.7
			0.2	195.8
N			+0.2	196.2
T.P.	9.23	205.07	0.15	195.84
	125' E of 31st			
N			6.1	199.0
			6.8	198.3
			7.4	197.7
			7.7	197.4
			7.9	197.2
			8.3	196.8
			8.6	196.5

2005.07

150' E of 31st

S	6.9	198.2
	6.6	198.5
	6.2	198.9
	5.7	199.4
	5.3	199.8
	4.9	200.2
N	4.6	200.5

175' E of 31st

N	3.6	201.5
	4.2	200.9
	4.7	200.4
	5.2	199.9
	5.6	199.5
	5.7	199.4
S	6.1	199.0

2005.07

S 200' E of 31st

	5.7	199.4
	5.4	199.7
	5.0	200.1
	4.5	200.6
	4.0	201.1
	3.5	201.6
N	2.6	202.5

225' E of 31st.

N	2.9	202.2
	3.7	201.4
	4.2	200.9
	4.7	200.4
	5.4	199.7
	6.0	199.1
S	6.2	198.9

		20507'		
	250' E of 31st			
S			12.2	192.9
			11.0	194.1
			9.3	195.8
			7.3	197.8
			6.3	198.8
			5.6	199.5
N			4.5	200.6
	260' E of 31st			
N			4.2	200.9
			5.7	199.4
			6.7	198.4
			8.3	196.8
			12.0	193.1
			14.0	191.1
S			15.0	190.1

		20507'		
	275 E of 31st			
S			9.8	195.3
			8.1	197.0
			6.9	198.2
			6.2	198.9
			5.4	199.7
			4.1	201.0
N			3.3	201.8
	300' E of 31st			
N			2.1	203.0
			2.7	202.4
			3.2	201.9
			3.8	201.3
			4.5	200.6
			5.2	199.9
S			5.9	199.2

2050 ✓

325' E of 31st

S	4.7	200.4
	4.4	200.7
	3.9	201.2
	3.2	201.9
	2.7	202.4
	2.2	202.9
N	1.6	203.5

350' E of 31st

N	1.7	203.4
	2.3	202.8
	2.8	202.3
	3.2	201.9
	3.9	201.2
	4.4	200.7
S	4.9	200.2

2050 ✓

375' E of 31st

S	5.0	200.1
	4.4	200.7
	3.9	201.2
	3.4	201.7
	3.0	202.1
	2.6	202.5
N	2.1	203.0

400' E of 31st

N	3.1	202.0
	3.5	201.6
	4.0	201.1
	4.2	200.9
	4.5	200.6
	5.1	200.0
S	5.7	199.4

205.07

425' E of 31+

S		6.7	198.4
		6.3	198.8
		5.8	199.3
		5.4	199.7
		5.0	200.1
		4.5	200.6
N		4.2	200.8

450' E of 31+

N		5.0	200.1
		5.3	199.8
		5.7	199.4
		6.4	198.7
		6.9	198.3
		7.1	198.0
S		7.4	197.7

205.07

475' E of 31+

S		9.6	195.5
		9.2	195.9
		8.8	196.3
		8.2	196.9
		7.8	197.3
		7.5	197.6
N		7.3	197.8

500' E of 31+

N		11.1	194.0
		10.7	194.4
		10.6	194.5
		10.9	194.2
		11.3	193.8
		11.9	193.2
S		12.6	192.5
TP	1.17	193.00	191.83

19300'

575' E of 31st

S	4.3	188.7	
	3.8	189.2	
	3.1	189.9	
	2.5	190.5	
	2.5	190.5	
	2.4	190.6	
N	2.5	190.5	

550' E of 31st

N	6.2	186.8	
	6.0	187.0	
	5.9	187.1	
	6.0	187.0	
	6.4	186.6	
	6.6	186.4	
S	7.3	185.7	

19300'

575' E of 31st

S	11.6	181.4		
	11.1	181.9		
	10.5	182.5		
	11.2	181.8		
	11.0	182.0		
	11.5	181.5		
N	11.4	181.6		
T.P.	3.18	184.44	11.74	181.26

601' E of 31st = W Line 32nd

N	6.73	177.71	B.M
	6.7	177.7	
	7.1	177.3	
	7.1	177.3	
	7.1	177.3	
	7.1	177.3	
S	7.6	176.8	

Levels on Ida Street from A to North line So. Park

	6.88 H.I.	Rod	232.66 ~~170.10~~
W. line	North line A		
E. line	~~106.88~~ 239.54	9.0	230.0
C.		9.6	229.9
W. line		9.6	229.9
	300' South ~~Harvard~~ ash		
W. line		8.7	230.8
C		8.1	231.4
E. line		7.7	231.8
	250' South		
E. line		6.3	233.2
C		7.0	232.5
W. line		7.0	232.5
	200' South		
W. line		5.9	233.6
C		5.9	233.6
E. line		5.4	234.1

	150' South		
E. line	~~106.88~~ 239.54	4.3	235.2
C		4.9	234.6
W. line		5.2	234.3
	100' South		
W. line		4.1	235.4
C		3.7	235.8
E. line		3.2	236.3
	50' South Harvard		
E. line		2.4	237.1
C		2.6	236.9
W. line		2.9	236.6
	So. line Harvard		
W. line		1.8	237.7
C		1.5	238.0
E. line		2.0	237.5

		Center Harvard		
E. line		~~106.88~~ 239.54	2.0	237.5
C			1.3	238.2
W. line			1.2	238.2
T.P.	4.12	242.28 ~~109.62~~	1.38	238.16 ~~105.50~~
		North line Harvard		
W. line			3.3	239.0
C			3.8	238.5
E. line			5.4	236.9
		50' North		
E. line			7.5	234.8
C			3.9	238.4
W. line			3.0	239.3
		100' North		
W. line			2.7	239.6
C			4.3	238.0
E. line			9.8	232.5

		150' North		
E. line		242.28 ~~109.62~~	16.3	226.0
C			7.4	234.9
W. line			4.2	238.1
		200' North		
W. line			5.2	237.1
C			13.8	228.5
		250' North		
W. line			13.7	228.6
T.P.	0.43	229.71 ~~97.05~~	13.0	229.28 ~~96.62~~
		200' North		
E. line			9.8	219.9
		250' North		
C			11.5	218.2
8	30°	So. line ~~Dartmouth~~ Beech		
W. line			11.8	217.9
T.P.	0.25	217.43 ~~84.77~~	12.53	217.18 ~~84.52~~

250' North

E. line		217.43 ~~87.77~~	9.3	208.1
		So. line ~~Hartmouth~~ Beech		
C			9.3	208.1
		Center Hartmouth		
W. line			9.0	208.4
T.P.	0.49	204.88 ~~72.22~~	13.04	204.39 ~~71.73~~
		So. line Hartmouth		
E. line			9.2	195.7
		Center Hartmouth		
C			7.1	197.8
		North line Hartmouth		
W. line			8.8	196.1
T.P.	1.80	193.99 ~~67.33~~	12.69	192.19 ~~59.53~~
		Center Hartmouth		
E. line			7.1	186.9

North line ~~Hartmouth~~ Beech

C			7.3	186.7
		50' North		
W. line			8.2	185.8
T.P.	2.15	183.79 ~~51.13~~	12.35	181.64 ~~48.98~~
		North line ~~Hartmouth~~ Beech		
E. line			6.2	177.6
		50' North		
C			8.9	174.9
		100' North		
W. line			5.9	177.9
T.P.	1.93	172.73 ~~40.07~~	12.99	170.80 ~~38.14~~
		100' North		
C			8.5	164.2
E. line			16.8	155.9
~~C line~~		150' North		
E. line			16.3	156.4
C			13.0	159.7
W. line			4.7	168.0

		50' North		
E. line			8.3	164.4
		85'. North		
E. line			18.7	154.0
		200' North		
W. line			11.0	161.7
C			12.6	160.1
E. line			14.8	157.9
		~~220~~ North		
C			14.4	158.3
		230' North		
W. line			13.3	159.4
		250' North		
W. line			9.6	163.1
		250' North		
C	H.I.	183.79 ~~5.13~~	15.4	168.4
		250' North		
E. line	H.I.	193.99 ~~6.33~~		
		So. line Cedar ~~Amherst~~		
W. line			16.7	167.1

		So. line	Cedar ~~Amherst~~	
		204.88		
E. line	H.I.	~~72.27~~	8.3	196.6
C			14.9	190.0
		Center	Cedar ~~Amherst~~	
C			6.0	198.9
W. line			13.3	191.6
		North line	Cedar ~~Amherst~~	
W. line			4.8	200.1
		216.23		203.83
T.S.	12.40	~~83.57~~	1.05	71.17
		Center Amherst		
E. line			3.9	212.3
		North line Amherst		
C			4.7	211.5
		50' North		
W. line			9.2	207.0
		100' North		
W. line			1.4	214.8

T.P.	12.88	228.70 ~~216.04~~	0.41	215.82 ~~203.16~~
North line ambearst				
E. line			6.7	221.0
50' North				
C			7.9	220.8
100' North				
C			2.2	226.5
150' North				
W. line			7.8	220.9
(No. line So. P)		179.4 north		
W. line			5.1	223.6
T.P.	12.16	239.45 ~~226.79~~	14.1	227.29 ~~214.63~~
50' North				
E. line			8.4	231.1
100' North				
E. line			5.1	234.4

150' North

C	8.3	231.5
E. line	2.8	236.7
(No. line So. Park)	179' North	
E. line	2.3	237.2
C	6.6	232.9

Cross-Sections over Watkins Ave
at points where grades change bet
Despard & Story.

4/9/06 { Davis, Durbin, Thomas

B.M. S.W. 30th Watkins 280.20

	1.50	281.70		
		80'E Despard		
No line			9.3	272.4
Cb			9.2	272.5
1/4			9.1	272.6
C			9.6	272.1
1/4			9.8	271.9
Cb			9.7	272.0
So line			9.4	272.3
T.P	0.77	269.54	12.93	268.77
		130'E Despard		
So line			1.9	267.6
Cb			3.9	265.6
1/4			5.4	264.1
C			4.3	265.2
1/4			5.7	263.8
Cb			6.8	262.7
No line			9.1	260.4

		190'E Despard.		
So line			11.6	257.9
No line			12.6	256.9
		240'E Despard		
No line			2.9	266.6
Cb			5.9	263.6
No 1/4			10.2	259.3
T.P.	0.26	256.94	12.86	256.68
		190'E Despard		
So Curb			2.3	254.6
1/4			5.8	251.1
C			9.3	247.6
1/4			8.0	248.9
No Curb			5.4	251.5

Watkins Ave

M.
256.94

240' E Despard

Ch			2.1	254.8
So 1/4			8.2	248.7
Ch.			12.6	244.3
So line			12.4	244.5

290' E Despard

So Line			2.1	254.8
Ch.			3.1	253.8
T.P.	11.72	265.51	2.65	254.29
1/4			13.0	252.5
C			15.5	250.0
1/4			15.3	250.2
Ch			12.7	252.8
No line			11.3	254.2

330' E Despard

No line			7.4	258.1
Ch.			2.4	263.1
T.P.	12.39	277.28	0.62	264.89
1/4			11.8	265.5
Ch			11.4	265.9
1/4			11.6	265.7
Ch.			12.2	265.1
So line			13.2	264.1

390' E Despard

No line			3.7	273.6
Ch.			3.8	273.5
1/4			4.0	273.3
C			4.2	273.1
1/4			4.5	272.8
Ch			5.1	272.2
So line			5.4	271.9

Cross Section Watkins Ave
Dale to Park 4/9/06 { Dave, Dorothy, Thomas

POSTED

3.45	283.65			280.20
1.53	277.52	7.66	275.99	

W Line Dale

So Line		2.6	274.9
Ct		2.3	275.2
1/4		2.1	275.4
C		1.7	275.8
1/4		1.7	275.8
Ct		1.4	276.1
No line		1.0	276.5

50' W. Dale

No line		2.7	274.8
Ct		3.1	274.4
1/4		3.5	274.0
C		3.8	273.7
1/4		4.1	273.4
Ct		4.2	273.3
so line		4.6	272.9

100' W. Dale

So line		6.4	271.1
Ct		6.1	271.4
1/4		5.8	271.7
C		5.6	271.9
1/4		5.5	272.0
Ct		5.2	272.3
No line		5.2	272.3

150' W Dale

No line		7.6	269.9
Ct		7.7	269.8
1/4		7.7	269.8
C		8.0	269.5
1/4		8.4	269.1
Ct		8.4	269.1
So line		8.7	268.8

Watkins Ave.

277.52

200 W = E line 29th

No line	10.4	267.1
Ch	10.2	267.3
¼	10.0	267.5
C	10.1	267.4
¼	9.5	268.0
Ch	9.7	267.8
No line	9.8	267.7

E Cnt 29th

No line	10.0	267.5
Ch	10.2	267.3
¼	10.3	267.2
C	10.4	267.1
¼	10.4	267.1
Ch	10.6	266.9
No line	10.9	266.6

E ¼ 29th

No line	11.2	266.3
Ch	11.1	266.4
¼	10.9	266.6
C	10.7	266.8
¼	10.6	266.9
Ch	10.6	266.9
No line	10.7	266.8

Cnt 29th

No line	10.8	266.7
Ch	11.1	266.4
¼	11.0	266.5
C	11.3	266.2
¼	11.3	266.2
Ch.	11.6	265.9
No line	12.0	265.5

Watkins Ave.

277.52

West 1/4 29th

So Line		12.2	265.3
Cb		12.0	265.5
1/4		11.7	265.8
C		11.5	266.0
1/4		11.5	266.0
Cb		11.4	266.1
No Line		11.2	266.3

West Curb 29th

No Line		11.7	265.8
Cb		11.9	265.6
1/4		11.8	265.7
C		12.0	265.5
1/4		12.2	265.3
Cb		12.2	265.3
So Line		12.4	265.1

West Line 29th

So Line			[illegible].9	264.6
Cb			12.6	264.9
1/4			12.5	265.0
C			12.4	265.1
1/4			12.4	265.1
Cb			12.2	265.3
No Line			12.3	265.2
T.P.	0.25	264.85	12.92	264.60

50' W 29th

No Line			2.0	262.9
Cb			1.8	263.1
1/4			1.8	263.1
C			1.7	263.2
1/4			1.7	263.2
Cb			2.0	262.9
So Line			2.2	262.7

Watkins Ave

264,85

75' W 29th

No Line	3.4	261.5
Ct	3.4	261.5
¼	3.3	261.6
C	3.2	261.7
¼	3.2	261.7
Ct	3.3	261.6
No Line	3.2	261.7

100' W 29th

No Line	5.4	259.5
Ct	5.0	259.9
¼	4.9	260.0
C	5.0	259.9
¼	5.0	259.9
Ct	5.0	259.9
No Line	5.3	259.6

125' W 29th

No Line	7.6	257.3
Ct	7.5	257.4
¼	7.4	257.5
C	7.3	257.6
¼	7.3	257.6
Ct	7.4	257.5
No Line	7.9	257.0

150' W 29th

No Line	10.8	254.1
Ct	10.4	254.5
¼	10.0	254.9
C	9.9	255.0
¼	9.8	255.1
Ct	9.9	255.0
No Line	10.2	254.7

Watkins Blvd.
H.I.
264.85

175' W 29th

So Line			12.7	252.2
Cb			12.8	252.1
1/4			13.0	251.9
T.P.	0.25	252.59	12.51	252.34
Ctr			1.1	251.5
1/4			1.4	251.2
Cb.			1.7	250.9
No Line			2.5	250.1

200' W = E line Bean St.

No Line			6.3	246.3
Cb			5.2	247.4
1/4			4.7	247.9
C			4.4	248.2
1/4			3.9	248.7
Cb			4.0	248.6
So Line			4.0	248.6

East Curb Bean

So Line			6.2	246.4
Cb			6.0	246.6
1/4			5.9	246.7
C			5.9	246.7
1/4			6.3	246.3
Cb			7.0	245.6
No Line			8.5	244.1

East 1/4 Bean

No Line			10.9	241.7
Cb			9.7	242.9
1/4			8.9	243.7
C			8.6	244.0
1/4			8.1	244.5
Cb.			8.0	244.6
So Line			8.1	244.5

Watkins Ave

25259

Ctr Bear

So Line			9.9	242.7
Ct.			9.7	242.9
¼			10.0	242.6
C			10.2	242.4
½			10.8	241.8
Ct.			11.9	240.7
No Line			13.2	239.4

W ½ Bear

So Line			11.7	240.9
Ct			11.7	240.9
¼			11.6	241.0
C			12.3	40.3
½			12.9	239.7
T.P.	1.97	241.67	12.89	239.70
Ct.			3.4	238.3
No Line			5.1	236.6

West Cent Bear

No Line	7.7	234.0
Ct	5.9	235.8
½	4.6	237.1
C	3.7	238.0
½	3.0	238.7
Ct	2.9	238.8
So Line	3.0	238.7

West Line Bear

So Line	4.5	237.2
Ct	4.3	237.4
¼	4.6	237.1
C	5.2	236.5
½	6.0	235.7
Ct	7.4	234.3
No Line	9.3	232.4

Watkins Ave

241.67

25' W of Bean

No Line			13.0	228.7
Cb			11.1	230.6
¼			9.5	232.2
C			8.3	233.4
¼			7.4	234.3
Ct			7.1	234.6
So Line			7.1	234.6

50' W of Bean

So Line			10.8	230.9
Cb.			10.9	230.8
¼			10.7	231.0
C			11.4	230.3
¼			12.5	229.2
TP.	2.24	233.00	12.91	228.76
Cb.			3.9	227.1
No Line			5.9	225.1

75' W of Bean

No Line	9.1	221.9
Ct.	7.0	224.0
¼	4.8	226.2
C	3.6	227.4
¼	3.2	227.8
Ct	3.1	227.9
So Line	3.2	227.8

100' W of Bean

So Line	6.6	224.4
Ct	6.1	224.9
¼	6.1	224.9
C	6.4	224.6
¼	7.4	223.6
Cb.	9.0	222.0
No Line	11.4	219.6

Watkins Ave

N.

231.0

125' W of Bean

No Line			12.5	218.5
Cl.			10.0	221.0
1/4			8.8	222.2
C			8.8	222.2
3/4			9.4	221.6
Cl			10.4	220.6
So Line			12.8	218.2
T.P.	0.51	218.80	12.71	218.29

150' W of Bean

No Line			4.1	214.7
Cl.			2.9	215.9
1/4			2.9	215.9
C			5.1	213.7
1/4			7.0	211.8
Cl			10.4	208.4
T.P.			14.1	204.7

175' W Bean

No Line			10.6	208.2
Cl			12.8	206.0
T.P.	1.12	207.23	12.69	206.11
No 1/4			2.9	204.3
Cl			5.5	201.7
1/4			8.8	198.4
Cl.			13.0	194.2
T.P.	2.40	197.17	12.46	194.71
So Line			6.3	190.9

185 W. Bean

So Line			11.9	185.3
So Cl			8.7	188.5

900 W = E. L. Park St

So Line			8.3	188.9
Cl			13.6	183.6
1/4			8.4	189.8

Watkins Ave

POSTED

197.17

E line Park St.

Centre	5.6	1916
W	4.6	1926
C	2.7	1045
No Line	0.8	196.4

11.08

GRAND

AVE.

238.0

238.0

256.0

256.0

261.0

261.5

HAMILTON

29TH

ST.

263.0

263.5

ST.

274.0

276.0

DALE

ST.

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.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	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	28.82	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							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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