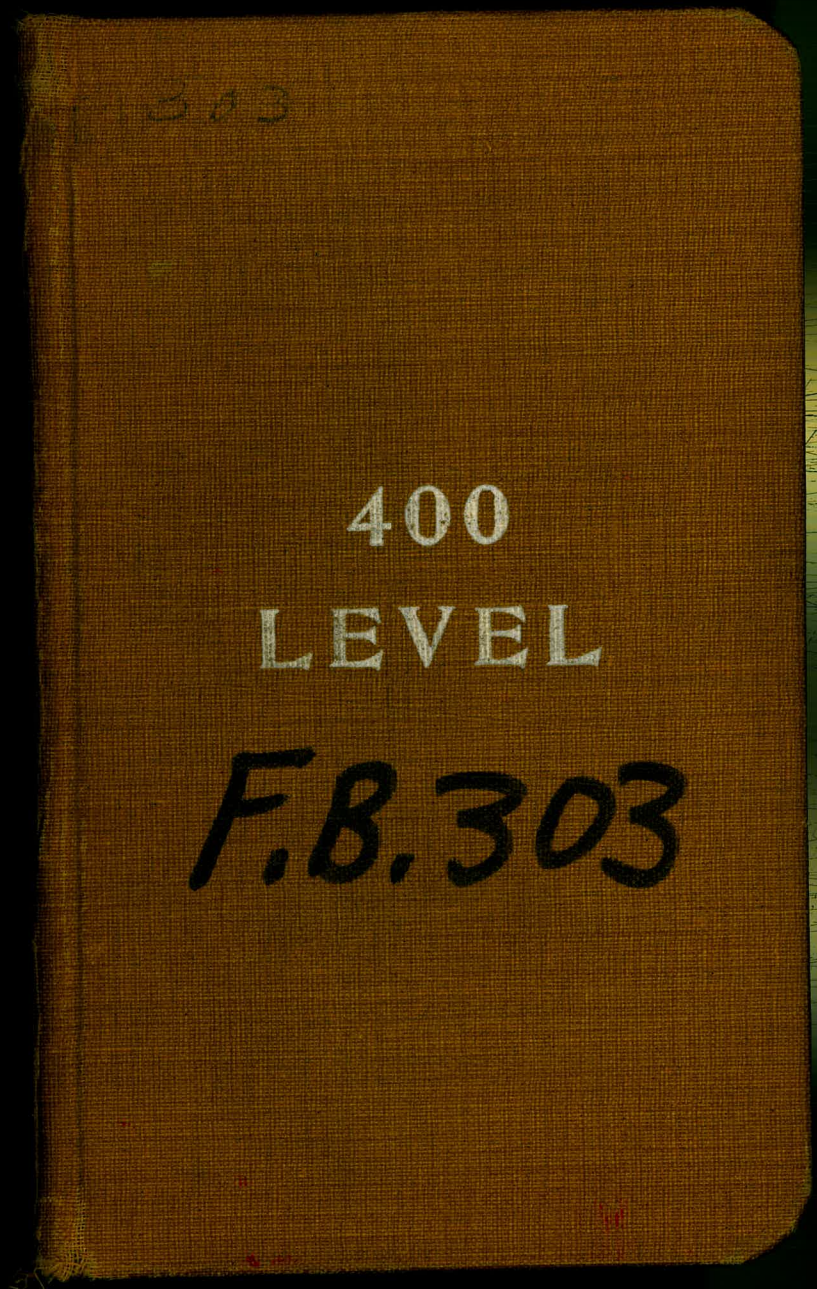
303
400
LEVEL
F.B.303

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	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	130⅔
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

303

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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.

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	4.56	24	9.47	35	22.07

Clough } Sh
Taylor }
Orange 15

Crossection of Clay St (80')
32nd to 33d st

	237	8499		82.62	BM Top of 1st 32d Clay
	E W L	of 32nd st		(60')	
NL			5.4	79.6	
bb			5.4	79.6	
"			5.6	79.4	
b			5.7	79.3	
"			6.3	78.7	
bb			6.6	78.4	
SL			6.5	78.5	
	25'	E of 32nd st			
SL			6.0	79.0	
bb			6.0	79.0	
"			6.0	79.0	
b			5.2	79.8	
"			5.4	79.6	
bb			4.8	80.2	
NL			4.9	80.1	

8499

Posted

1

	50'	E of	32nd	
NL			4.6	80.4
bb			4.9	80.1
"			5.4	79.6
b			5.1	79.9
"			4.8	79.2
bb			4.7	79.3
SL			5.5	79.5
	75'	E of	32nd	
SL			5.0	80.0
bb			5.0	80.0
"			4.9	80.1
b			5.3	79.7
"			5.3	79.7
bb			4.6	80.4
NL			4.7	80.3

84.99

	100'	E of	32 nd	
nd			3.8	81.2
sh			4.0	81.0
s			4.6	80.4
h			4.6	80.4
s			4.4	80.6
sh			4.5	80.5
SL			4.6	80.4
	125'	E of	32 nd	
SL			4.1	80.9
sh			4.0	81.0
s			3.8	81.2
h			3.6	81.4
s			4.4	80.6
sh			3.8	81.2
nd			3.7	81.3

84.99

	150'	E of	32 nd	st
nd			4.2	80.8
sh			4.5	80.5
s			4.7	80.3
h			4.2	80.8
s			4.2	80.8
sh			3.9	81.1
SL			3.6	81.4
	175'	E of	32 nd	
SL			3.4	81.6
sh			3.7	81.1
s			4.0	81.0
h			4.3	80.7
s			4.7	80.3
sh			4.4	80.6
nd			4.4	80.6

8499

	200'	E of	3 zone	
N2			6.0	79.0
bl			6.0	79.0
4			5.7	79.3
b			4.8	80.2
4			4.1	80.9
bl			4.4	80.6
S2			3.7	81.3
	225'	E of	3 zone	
S2			3.8	81.2
bl			4.2	80.8
4			4.3	80.7
b			4.9	80.1
4			6.1	78.9
bl			6.1	78.9
N2			6.6	78.4

8497

	250'	E of	3 zone	
N2			7.6	77.4
bl			6.7	78.3
4			6.6	78.4
b			4.9	80.1
4			4.3	80.7
bl			3.4	81.6
S2			3.7	81.3
	275'	E of	3 zone	
S2			4.2	80.8
bl			4.0	80.0
4			5.5	79.5
b			5.9	79.1
4			7.0	78.0
bl			7.5	77.5
N2			9.3	75.7

		84.99		
	300'	E of	32nd	
NL			10.2	74.8
bb			8.3	76.7
"			7.5	77.5
b			6.8	78.2
"			5.8	79.2
bb			5.2	79.8
SL			4.2	80.8
	337.5'	E of	WL of 33d	
SL			5.3	79.7
bb			7.2	77.8
"			8.1	76.9
b			8.4	76.6
"			9.3	75.7
bb			9.9	75.1
NL			12.10	72.9

Crossection of Clay st (80')

32nd to 28th st

	-.01	82.61		82.62 3m Past 32 + Clay
	W L of		32nd	(60')
NL			3.5	79.1
bb			4.3	78.3
"			4.0	78.6
b			4.2	78.4
"			4.2	78.4
bb			4.3	78.3
SL			4.9	77.7
	25'	W of	32nd	
SL			5.9	76.7
bb			5.8	76.8
"			5.8	76.8
b			5.2	77.4
"			4.4	78.2
bb			4.7	77.9
NL			4.0	78.6

		8261		
	50'	W of	32 rd	
NL			4.7	77.9
bh			5.3	77.3
y			5.3	77.3
b			6.3	76.3
y			7.2	75.4
bh			8.0	74.6
SL			8.2	74.4
	75'	W of	32 rd	
SL			8.7	73.9
bh			8.4	74.2
y			7.7	74.9
b			6.9	75.7
y			6.7	75.9
bh			6.0	76.6
NL			5.6	77.0

		8261		
		Posted.		
	100'	W of	32 rd	
NL			6.2	76.4
bh			6.9	75.7
y			7.2	75.4
b			7.6	750
y			8.3	74.3
bh			8.7	73.9
SL			9.0	73.6
	125'	W of	32 rd	
SL			6.8	75.8
bh			6.8	75.8
y			7.0	75.6
b			7.1	75.5
y			7.2	75.4
bh			6.7	75.9
NL			6.3	76.3

82.61

150 W of 32nd

N2	5.8	76.8
bh	6.4	76.2
4	6.7	75.9
6	5.5	76.1
4	5.6	77.0
bh	6.0	76.6
S2	6.4	76.2

175' W of 32nd

S2	6.9	75.7
bh	6.6	76.0
4	5.8	76.8
6	5.9	76.7
4	6.0	76.6
bh	5.8	76.8
N2	5.5	77.1

82.61

200' W of 32nd

N2	5.1	77.4
bh	6.0	76.6
4	6.1	76.5
6	6.2	76.4
4	6.2	76.4
bh	6.4	76.2
S2	6.7	75.9
	7.2	

225' W of 32nd

S2	6.8	75.8
bh	6.3	76.3
4	6.0	76.6
6	6.3	76.3
4	5.6	77.0
bh	5.4	77.2
N2	5.2	77.4
TD	4.56	80.01

80.01

250' W of 32nd

N2	2.4	77.6
bb	2.2	77.8
4	2.6	77.4
b	3.1	76.9
4	3.2	76.8
bb	3.7	76.3
S2	4.2	75.8

275' W of 32nd

S2	3.8	76.2
bb	3.4	76.6
4	3.1	76.9
b	3.1	76.9
4	2.6	77.4
bb	2.5	77.5
N2	2.5	77.5

80.01

300' W of 32nd

N2	2.4	77.6
	2.1	77.9
	2.5	77.5
b	3.0	77.0
4	2.9	77.1
bb	2.8	77.2
S2	3.2	76.8

325' W of 32nd

S2	3.4	76.6
bb	3.1	77.9
4	2.8	77.2
b	2.8	77.2
4	2.3	77.7
bb	1.9	78.1
N2	2.1	77.9

8001

	350' W of 32nd	
NL	30	77.0
BL	31	76.9
Y	30	77.0
L	33	76.7
Y	34	76.6
BL	36	76.6
SL	39	761
	375' W of 32nd	
SL	41	75.9
BL	40	76.0
Y	35	76.5
L	36	76.4
Y	35	76.5
BL	39	76.1
NL	39	76.1

8001

	400' W of 32nd	
NL	33	76.7
BL	27	77.3
Y	37	76.3
L	39	76.1
Y	38	76.2
BL	39	76.1
SL	43	75.7
	425' W of 32nd	
SL	45	75.5
BL	39	76.1
Y	38	76.2
L	38	76.2
Y	41	75.9
BL	44	75.6
NL	46	75.4

		80.01			
	450'	W of	32nd		
NL			4.3	75.7	
bb			4.1	75.9	
"			3.9	76.1	
b			4.2	75.8	
"			4.2	75.8	
bb			4.3	75.7	
SL			4.7	75.3	
	475'	W of	32nd		
SL			5.6	74.4	
bb			4.8	75.2	
"			4.6	75.4	
b			4.7	75.3	
"			4.6	75.4	
bb			4.9	75.1	
NL			5.2	74.8	

		80.01			
	500'	W of	32nd		
NL			6.0	74.0	
bb			5.5	74.5	
"			5.5	74.5	
b			5.8	74.2	
"			5.7	74.3	
bb			6.0	74.0	
SL			6.4	73.6	
	525'	W of	32nd		
SL			7.3	72.7	
bb			6.6	73.4	
"			6.4	73.6	
b			7.8	72.2	
"			7.7	72.3	
bb			6.9	73.1	
NL			7.0	73.0	
BM			7.63	72.38	31 + bldg NE Cor Old Bench

		80.01		
	550'	W of	32nd	
NL			8.0	72.0
bb			8.0	72.0
"			9.3	70.7
b			9.5	70.5
"			9.0	71.0
bb			8.10	71.9
SL			8.2	71.8
	575'	W of	32nd	
SL			9.7	70.3
bb			10.3	69.7
"			11.0	69.0
b			11.5	68.5
"			11.1	68.9
bb			10.2	69.8
NL			10.2	69.8

		80.01		
	600' W = E Line 31st st (60')			
NL			10.5	69.5
bb			11.0	69.0
"			12.4	67.6
b			12.6	67.4
"			12.5	67.5
bb			12.5	67.5
SL			12.6	67.4
Tp	4.28	71.47	12.82	67.19
	E bb of 31st			
SL			5.0	66.5
bb			5.4	66.1
"			5.0	66.5
b			5.0	66.5
"			4.5	67.0
bb			1.8	69.7
NL			0.6	70.9

71.47

E 1/4 of 31st

NL		2.0	69.5
bb		3.5	68.0
4		5.1	66.4
b		5.6	65.9
4		5.6	65.9
bb		6.3	65.2
SL		6.9	64.6

Center of 31st

SL		6.75	64.7
bb		6.35	65.1
4		6.0	65.5
b		5.6	65.9
4		5.4	66.1
bb		5.0	66.5
NL		4.8	66.7

on Rail of Surroods

71.47

W 1/4 of 31st

NL		2.0	70.5
bb		1.7	69.8
4		4.9	66.6
b		5.7	65.8
4		5.9	65.6
bb		6.3	65.2
SL		7.2	64.3

W bb of 31st

SL		6.9	64.6
bb		5.9	65.6
4		5.0	66.5
b		5.3	66.2
4		3.7	67.8
bb		1.6	69.9
NL		0.2	71.2

		71.47		
	W L	of 31	st st	
NL			0.2	71.3
bb			2.2	69.3
"			4.2	67.3
b			5.3	66.2
			4.9	66.6
			5.9	65.6
SL			7.2	64.3
	25'	W of	31st	
SL			8.6	62.9
bb			6.7	64.8
"			5.8	65.9
b			5.6	65.9
"			4.6	66.9
bb			1.9	69.6
NL			1.3	70.2

		71.47		
	50'	W of	31st	st
NL			2.6	68.9
bb			2.9	68.6
"			6.0	65.5
b			6.7	64.8
"			6.8	64.7
bb			9.7	61.8
SL			12.0	59.5
	75'	W of	31st	st
SL			12.2	59.3
bb			9.6	61.9
"			8.3	63.2
b			8.3	63.2
"			7.4	64.1
bb			4.0	67.5
NL			3.7	67.8

7147

	100'	W of	Stat	
N2			7.6	63.9
bk			8.1	63.4
y			9.3	62.2
b			10.5	61.0
y			10.5	61.5
bk			11.8	59.7
S2			13.2	58.3
TP	85	6833	11.69	59.78
	125'	W of	Stat	
S2			12.0	56.3
bk			11.3	57.0
y			8.3	60.0
b			8.4	59.9
y			8.4	59.9
bk			8.6	59.7
N2			8.8	59.5

6833

	150'	W of	Stat	
N2			10.5	57.8
			11.1	57.2
			12.1	56.2
b			9.2	59.1
y			10.0	58.3
bk			13.9	54.4
S2			12.1	56.2
	175'	W of	Stat	
S2			11.5	56.8
bk			13.5	54.8
y			11.0	57.3
b			9.4	58.9
y			10.6	57.7
bk			10.3	58.0
N2			9.4	589

6833

200' W of 31st st

N2	5.2 — 63.1
bk	7.0 — 61.3
4	7.9 — 60.4
b	8.2 — 60.1
4	9.3 — 59.0
bk	10.9 — 57.4
S2	12.0 — 56.3

225' W of 31st st

S2	9.1 — 59.2
bk	7.5 — 61.8
4	6.0 — 62.3
b	6.6 — 61.7
4	5.8 — 62.5
bk	4.6 — 63.7
N2	3.1 — 65.2

6833

250' W of 31st st

N2	+ 0.2 — 68.5
bk	1.0 — 67.3
4	4.1 — 64.2
b	5.0 — 63.3
4	4.7 — 63.6
bk	6.3 — 62.0
S2	7.8 — 60.5

275' W of 31st st

S2	7.4 — 60.9
bk	5.9 — 62.4
4	4.2 — 64.1
b	4.2 — 64.1
4	3.4 — 64.9
bk	1.1 — 67.2
N2	+ 0.2 — 68.5

		68.33		
	300' W of 31st st			
NL			1.1	67.2
bh			2.2	67.1
"			4.1	64.2
b			4.6	63.7
"			5.7	62.6
bh			7.2	61.1
SL			7.9	60.4
	325' W of 31st st			
SL			9.0	59.3
bh			8.0	60.3
"			5.9	62.4
b			5.7	62.6
"			3.6	64.7
bh			3.1	65.5
NL			2.6	65.7
TP	11.46	74.18	5.61	62.72

		68.33		
	350' W of 31st st			
NL			4.0	64.3
bh			6.1	62.2
"			6.2	62.1
b			6.6	61.7
"			6.8	61.5
bh			8.0	60.3
SL			8.1	60.2
TP	11.46	74.18	5.61	62.72
	375' W of 31st st			
SL			12.2	62.0
bh			13.0	61.2
"			11.6	62.6
b			11.6	62.6
"			11.3	62.9
bh			11.3	62.9
NL			10.0	64.2

		7418		
	400'	W of	31st	st
NL			11.0	63.2
Ch			11.0	63.2
4			10.6	63.6
C			10.6	63.6
4			10.3	63.9
Ch			10.6	63.9
SL			9.4	64.8
	425'	W of	31st	st
SL			7.4	66.8
Ch			7.4	66.8
4			8.0	66.2
C			8.2	66.0
4			7.5	66.7
Ch			7.8	66.4
NL			8.2	66.0

		7418		
	450'	W of	31st	st
NL			7.4	66.8
Ch			6.1	68.1
4			6.1	68.1
C			6.1	68.1
4			5.9	68.2
			5.6	68.6
S.L.			5.8	68.4
	475	W of	31st	st
SL			4.6	69.6
Ch			4.7	69.5
4			4.4	69.8
C			4.4	69.8
4			4.5	69.6
Ch			4.8	69.4
NL			5.5	68.7

		74.18		
	500'	W of	31st	st
NL			5.3	68.9
Cb			4.3	69.9
4			3.6	70.6
b			3.4	70.8
4			3.0	71.0
Cb			3.4	70.8
SL			3.5	70.7
	525'	W of	31st	st
SL			3.2	71.0
Cb			2.9	71.3
4			2.6	71.6
b			2.8	71.4
4			3.2	71.0
Cb			4.1	70.1
NL			4.8	69.4

		74.18	7	
	550'	W of	31st	st
NL			4.9	69.3
Cb			4.1	70.2
4			3.2	71.0
b			2.8	71.4
4			2.6	71.6
Cb			2.7	71.5
SL			2.5	71.7
	575'	W of	31st	st
SL			1.0	73.2
Cb			1.8	72.4
4			2.4	71.8
b			2.7	71.5
4			3.7	70.5
Cb			4.4	69.8
NL			4.9	69.3

		74.18		
	600'	W =	E Line	(80') 30th st
SL			4.6	69.6
bb			4.6	69.6
"			3.3	69.9
b			2.3	71.9
"			1.4	72.8
bb			1.3	72.9
SL			0.7	73.5
TP	87.0	77.92	4.96	on spike 69.92 NE Cor 30 + bldg
	E bb of		30th st	
NL			8.2	69.7
bb			7.8	70.1
"			6.0	71.9
b			5.6	72.3
"			5.0	72.0
bb			4.6	73.3
SL			4.6	73.3

		77.92		
	E 1/4 of		30th st	
SL			4.3	73.6
bb			4.9	73.0
"			5.2	72.7
b			5.3	72.6
"			6.3	71.6
bb			7.7	70.2
NL			7.9	70.0
	Center of		30th st	
NL			7.5	70.4
bb			7.4	70.5
"			6.4	71.5
b			4.9	73.0
"			4.7	73.2
bb			4.6	73.3
SL			3.7	74.2

77.92

W 1/4 of 30th st

SL			4.0	73.9
bb			4.6	73.3
"			5.0	72.9
b			5.4	72.5
"			6.8	71.1
bb			7.6	70.3
NL			7.7	70.2

W bb of 30th st

NL			7.6	70.3
bb			7.6	70.3
"			6.6	71.3
b			5.2	72.7
"			4.4	73.5
bb			4.3	73.6
SL			3.2	74.7

77.92

W Line of 30th st

SL			2.8	75.8
bb			3.6	73.3
"			4.4	73.5
b			5.2	72.7
"			6.6	71.3
bb			7.3	70.6
NL			7.4	70.5
	12.90	82.12		69.22

Posted

69.22 Bm Sn N E Cor 20th Cor

25' W of 30th st

SL			6.6	75.5
bb			7.6	74.5
"			8.0	74.1
b			9.1	73.0
"			10.5	71.6
bb			10.8	71.3
NL			10.5	71.6

POSTED

8x12

50' W of 300' N

N2	10.4	71.7
bl	10.3	71.8
4	9.8	72.3
6	8.8	73.3
4	7.9	74.2
bl	5.4	76.7
S2	5.4	76.7

75' W of 300' N

S2	4.2	77.9
bl	4.4	77.7
4	6.3	75.8
6	8.6	73.5
4	8.7	73.4
bl	9.3	72.8
N2	9.1	73.0

8x12

100' W of 300' N

N2	7.8	74.3
bl	8.5	73.6
4	7.7	74.4
6	8.2	73.9
4	6.5	75.6
bl	4.3	77.8
S2	2.6	79.5

125' W of 300' N

S2	2.2	79.9
bl	3.4	78.7
4	5.0	77.1
6	7.4	74.7
4	7.5	74.6
bl	7.9	74.2
N2	7.5	74.6

8212

150' W of South st

N2	6.7	75.4
bk	7.5	74.6
4	7.4	74.7
6	7.4	74.7
4	5.8	76.3
bk	3.9	78.2
S2	2.3	79.8

175' W of South

S2	3.0	79.1
bk	3.8	78.3
4	5.7	76.4
1	6.8	75.3
4	7.2	74.8
bk	7.1	75.0
N2	6.2	75.9

8212 Clay st

200' W of South st

N2	5.0	77.1
bk	5.4	76.7
4	6.6	75.5
6	6.1	76.0
4	5.9	76.2
bk	4.7	77.4
S2	3.6	78.5

225' W of South st

S2	4.2	77.9
bk	5.5	76.6
4	6.0	76.1
1	5.9	76.2
4	5.9	76.2
bk	5.2	76.8
N2	4.2	77.9

		82.12		
	250'	w of	30th	
nL			4,3	77.8
bl			5,2	76.9
"			5,6	76.5
b			5,4	76.7
"			4,9	77.2
bl			4,8	77.3
SL			4,5	77.6
	275'	w of	30th	st
SL			4,6	77.5
bl			4,8	77.3
"			4,7	77.4
b			4,5	77.6
"			4,8	77.3
bl			4,2	77.9
nL			3,5	78.6

		82.12		Clay
	300'	w of	30th	st
nL			4,8	77.3
bl			4,4	77.7
"			4,7	77.4
b			4,4	77.7
"			3,7	78.4
bl			3,6	78.5
SL			3,3	78.8
	325'	w of	30th	st
SL			3,6	78.5
bl			3,7	78.4
"			4,7	78.0
b			4,4	77.7
"			4,8	77.3
bl			4,3	77.8
nL			5,0	77.1

	8212	8212		
	350'	W of	30ft	
2L			5.6	76.5
bk			5.0	75.0
y			5.2	76.9
b			4.9	77.2
y			4.7	77.4
bl			4.2	77.9
SL			3.8	78.3
	400'	W of	30ft	
SL			3.8	78.3
bl			4.4	77.7
y			4.9	77.2
b			5.1	77.0
y			5.4	76.7
bl			5.5	76.6
NL			6.0	76.1
TP	7.05	8381	5.36	76.76

		8381		Coley St
	425'	W of	30ft	
NL			7.1	76.7
bl			6.9	76.9
y			7.2	76.6
b			7.0	76.8
y			6.5	77.3
bl			6.4	77.4
SL			5.7	78.1
	450'	W of	30ft	St
SL			5.8	78.0
bl			6.6	77.2
y			6.9	76.9
b			7.0	768
y			7.2	76.6
bl			7.1	76.7
NL			7.1	76.7

8381

475' w of South st

22	7.4	76.4
6	7.1	76.7
4	7.1	76.7
6	7.0	76.8
4	6.6	77.2
6	6.2	77.6
52	5.4	78.0

475' w of

52	5.5	78.3
6	5.6	78.2
4	5.9	77.9
6	6.7	77.1
4	7.1	76.7
6	7.0	76.8
22	7.2	76.6

8381 Clay

500' w of South st

22	7.2	76.6
6	7.0	76.8
4	6.8	77.0
6	6.6	77.6
4	5.9	77.9
6	5.7	78.1
52	5.2	78.6

525' w of 30th st

52	4.7	79.1
6	5.0	78.1
4	5.4	78.4
6	5.5	78.3
4	6.8	77.5
6	6.7	77.1
22	7.0	76.8

		8381		
	550'	W of	30th	st
NL			6.5	77.7
bl			6.7	77.1
y			6.5	77.3
b			5.4	78.4
y			5.2	78.6
bl			4.8	79.0
SL			4.4	79.4
	575'	W of	30th	st
SL			4.1	79.7
bl			4.4	79.4
y			4.8	79.0
b			4.8	79.0
y			6.1	77.8
			6.3	77.5
			6.5	77.3

		8381		Clay st
	600'	W =	E L	29th st (60')
NL			6.6	77.2
bl			6.1	77.7
y			6.1	77.7
b			4.9	78.9
y			4.9	78.9
bl			4.4	79.4
SL			3.8	80.0
	E bl	of	29th	st
SL			3.7	80.1
bl			3.7	80.1
y			4.5	79.3
b			4.9	78.9
y			5.7	78.1
bl			6.1	77.7
NL			6.5	77.3

8381

E ¼ of 29 21

N2	6.3	77.5
bk	6.2	77.6
y	6.2	77.6
b	5.7	78.6
y	4.7	79.1
bk	3.6	80.2
S2	2.8	81.0

- Center of 29 21

S2	2.7	80.1
bk	4.1	79.7
y	4.8	79.0
b	5.2	78.6
y	5.9	77.9
bk	6.3	77.5
N2	6.4	77.4

POSTED

8381

W ¼ of 29 21

N2	6.5	77.3
bk	6.4	77.4
y	6.2	77.6
b	5.4	78.4
y	4.8	79.0
bk	4.4	79.4
S2	4.2	79.6

W bk of 29 21

S2	3.9	79.9
bk	4.1	79.7
y	4.8	79.0
b	5.3	78.5
y	6.1	77.7
bk	6.4	77.4
N2	6.1	77.7

POSTED

8381

	W L	of	29 ct	st
NL			6.4	77.4
bl			6.2	77.6
y			6.2	77.6
b			5.5	78.3
y			4.8	79.0
bl			4.3	79.5
SL			4.4	79.4
	25'	w of	29 ct	st
SL			5.0	78.8
bl			5.2	78.6
y			5.5	78.3
b			6.0	77.8
y			6.2	76.6
bl			6.5	76.3
NL			6.3	77.5

8381 Clay st

	50'	w of	29 ct	st
NL			6.5	77.3
bl			6.3	77.5
y			6.2	77.6
b			5.8	78.0
y			4.9	78.9
bl			4.6	79.2
SL			4.4	79.4
	75'	w of	29 ct	st
SL			5.0	78.8
bl			4.4	79.4
y			5.2	78.6
b			6.1	77.9
y			6.4	77.4
bl			6.3	77.5
NL			6.5	77.3
TP	4.25	82.56	5.50	78.31

		8256		
	100'	w of	29 ct	st
ns			5,6	77.0
bl			5,0	77.6
y			4,8	77.8
b			4,6	78.0
y			4,2	78.4
bl			4,0	78.6
Se			3,0	79.6
	125'	w of	29 ct	
Se			3,2	79.4
bl			3,5	79.1
y			4,1	78.5
b			4,5	78.1
y			4,7	77.9
bl			5,4	77.2
ns			5,2	77.4

		8256		Clay st
	150'	w of	29 ct	st
ns			5,3	77.3
bl			5,2	77.4
y			4,8	77.8
b			4,7	77.9
y			4,3	78.3
bl			3,7	78.9
Se			3,6	79.0
	175'	w of	29 ct	st
Se			3,5	79.1
bl			4,2	78.4
y			4,6	78.0
b			5,1	77.5
y			5,0	77.6
bl			5,3	77.3
ns			5,5	77.1

		82.56		
	200'	w of	29 in	
NL			5,7	76.9
bl			5,6	77.0
y			5,7	76.9
b			5,4	77.2
y			4,7	78.2
bl			4,2	78.4
SL			3,4	79.2
	225'	w of	29 in	st
SL			3,6	79.0
bl			4,3	78.3
y			4,9	77.7
b			5,5	77.1
y			5,7	76.9
bl			5,9	76.7
NL			6,3	76.3

		82.56		Clay st
	250'	w of	29 in	st
NL			6,7	75.9
bl			6,0	76.6
y			5,8	76.8
b			5,9	76.7
y			5,3	77.3
bl			4,8	77.8
SL			4,0	78.6
	275'	w of	29 in	st
SL			4,5	78.1
bl			5,0	77.6
y			5,5	77.1
b			5,9	76.7
y			6,0	76.6
bl			6,3	76.3
NL			6,6	76.0

POS. ...

		82.56		
	300'	w of	29 ct	st
NL			6.3	76.3
bl			6.5	76.1
y			6.2	76.4
b			6.1	76.5
y			5.7	76.9
bb			5.3	77.3
SL			5.1	77.5
	325'	w of	29 ct	st
SL			5.3	77.3
bb			5.4	77.2
y			5.7	76.9
b			6.0	76.6
y			6.3	76.3
bl			6.3	76.3
NL			6.4	76.2

		82.52		Clay st
	350'	w of	29 ct	
NL			6.7	75.9
bl			6.6	76.0
y			6.7	75.9
b			6.3	76.3
y			5.7	76.9
bb			5.5	77.1
SL			5.5	77.1
	375'	w of	29 ct	st
SL			6.0	76.6
bl			6.0	76.6
y			7.0	75.6
b			7.3	75.3
y			7.1	75.1
bb			6.5	76.1
NL			7.1	75.5

		8256		
	400'	w of	2 g it	st
NL			8,3	74.1
bl			8,0	74.6
y			7,6	75.0
b			7,6	75.0
TP	5,93	8094	7,55	75.01
y			5,7	75.4
bl			5,4	75.4
SL			4,2	76.7
	425'	w of	2 g it	st
SL			4,2	76.7
bl			4,7	76.2
y			5,2	75.7
b			5,6	75.3
y			5,3	75.6
bl			5,4	75.5
NL			6,1	74.8

		8094		Clay
	450'	w of	2 g it	st
NL			5,2	75.7
bl			5,5	75.4
y			5,1	75.8
b			5,0	75.9
y			4,9	POSTED
bl			4,7	76.2
SL			4,4	76.5
	475'	w of	2 g it	st
SL			4,0	76.9
bl			4,6	76.3
y			4,4	76.5
b			4,8	76.1
y			5,1	75.8
bl			5,3	75.6
NL			5,5	75.4

80.94

	500'	W of	29th St	
N 2			5.4	75.5
bl			5.2	75.7
4			4.9	76.0
b			4.0	76.9
4			3.8	77.1
bl			3.8	77.1
S 2			3.7	77.2
	525'	W of	29th St	
S 2			3.4	77.5
bl			4.0	76.9
4			4.2	76.7
b			4.5	76.4
4			5.1	75.8
bl			5.3	75.6
N 2			5.3	75.6

80.94 Clay St

?2

	550'	W of	29th St	
N 2			5.5	75.4
bl			5.3	75.6
4			5.2	75.7
b			4.5	76.4
4			4.5	76.4
bl			4.1	76.8
S 2			2.3	78.6
	575'	W of	29th St	
S 2			2.8	78.1
bl			4.5	76.4
4			4.7	76.2
b			4.7	76.2
4			5.2	75.7
bl			5.5	75.4
N 2			5.8	75.1

80.94

	600'	w =	E ℄	28th st	
NL			5.8	75.1	
bl			5.2	75.7	
y			5.1	75.8	
b			4.9	76.0	
y			4.6	76.3	
bl			4.6	76.3	
SL			4.4	76.5	
TP	1.75		1.28		
			7.25	74.18	Stump BM

POSTED

Clay st

E Cb of 28 st (60')

	7.05	81.23		74.18	BM Stump
NL			6.2	75.0	
bl			5.8	75.4	
y			5.3	75.9	
b			5.0	76.2	
y			4.8	76.4	
bl			4.6	76.6	
SL			3.0	78.2	

E 1/4 of 28th st

SL			3.6	77.6
bl			4.3	76.9
y			5.0	76.2
b			5.0	76.2
y			5.0	76.2
bl			5.9	75.3
NL			6.2	75.0

8/23

	Center of	28th	st
ns		5.7	75.5
bh		5.2	75.0
y		5.0	75.2
b		4.8	76.4
y		5.0	75.2
bh		4.7	76.5
Sh		4.3	76.9
	W 1/4 of	28th	st
Sh		5.5	75.7
bh		6.0	75.2
y		6.0	75.2
b		5.9	75.3
y		6.2	75.0
bh		6.3	74.9
ns		6.2	75.0

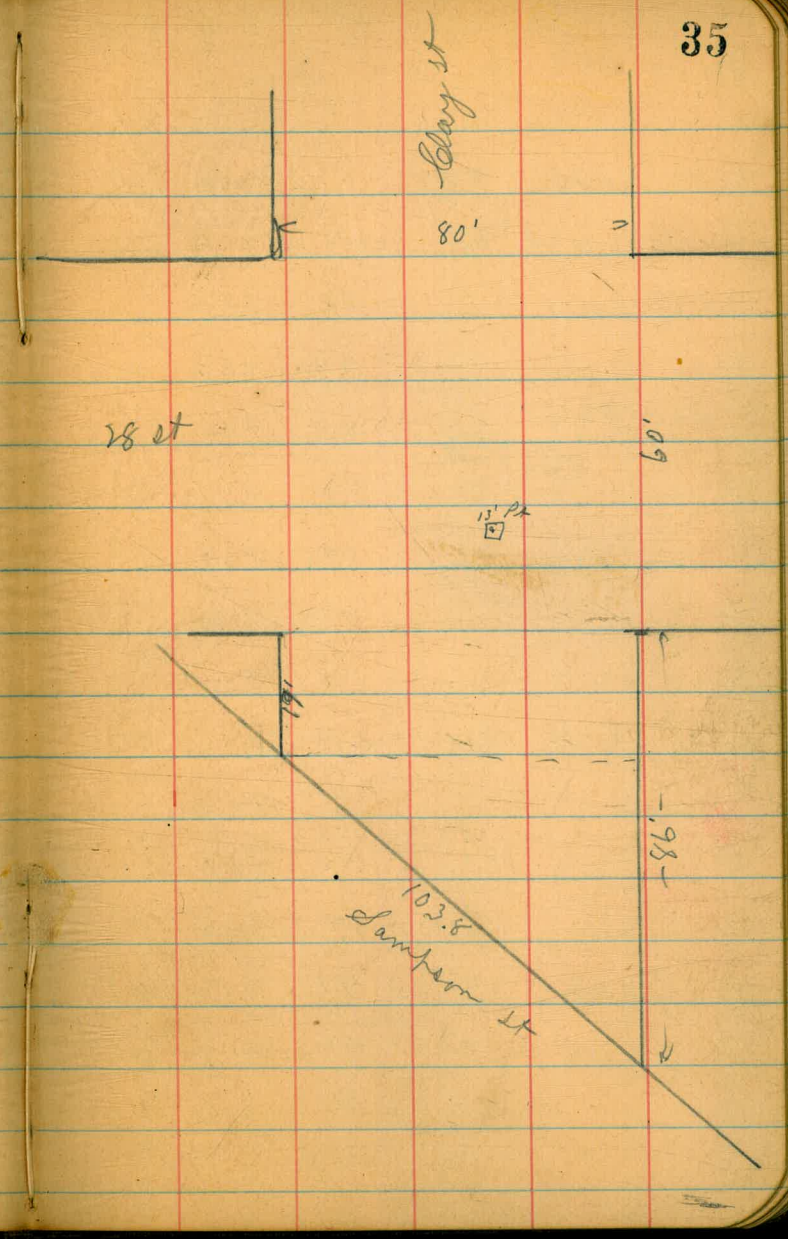
8/23 Clay st

	W bh of	28th	st
ns		6.7	74.5
bh		6.2	75.0
y		6.3	74.9
b		6.3	74.9
y		6.1	75.1
bh		6.1	75.1
Sh		6.0	74.2
	W h of	28th	st
Sh		5.2	76.0
bh		4.7	76.5
y		4.9	76.3
b		5.2	760
y		5.0	76.1
bh		5.6	75.6
ns		5.7	75.5

81.23

19.8' W of 28 st st

NL = E L Sampson		5.2	76.0
bl		4.6	76.6
"		4.5	76.7
b		4.1	77.1
"		4.0	77.2
bl		3.6	77.6
SL		3.6	77.6
E Lin Sampson			
SL = 86' W of 28'		1.6	79.6
bl		2.4	78.8
"		2.9	78.3
b		3.7	77.5
"		4.4	77.0
bl		4.7	76.5
NL = 19.8' W of 28		5.2	76.0



Clough Tyb Drag

Crossection of Webster St (80')

E L 28th to W L 33d

BM	1.96	76.14		74.18
	E L of		28th st	(60')
SL			3.1	73.0
bl			3.9	72.2
"			4.5	71.6
b			5.0	71.1
"			5.0	71.1
bl			5.2	70.9
NL			5.4	70.7
	E bl of		28th st	
NL			5.5	70.6
bl			5.2	70.9
"			5.7	70.4
b			4.7	71.4
"			4.4	71.7
bl			4.4	71.7
SL			4.0	72.1

POSTED

76.14 Webster

	E 1/4 of		28th st	
SL			4.0	72.1
bl			4.1	72.1
"			4.1	72.1
b			4.4	71.7
"			4.8	71.3
bl			4.4	71.7
NL			5.0	71.1
	Center of		28th st	
NL			4.6	71.5
bl			4.1	72.0
"			4.4	71.7
b			4.4	71.7
"			4.4	71.7
bl			4.0	72.1
SL			4.0	72.1
			4.0	

POSTED

76.14

SL	W	1/4 of	28th	st
SL			4.1	72.0
bh			4.1	72.0
"			4.4	71.7
b			4.4	71.7
"			4.5	71.6
bh			4.9	71.2
NL			5.0	71.1
	W	bh of	28th	
NL			5.0	71.1
bh			4.9	71.2
"			4.7	71.4
b			4.3	71.8
"			4.2	71.9
bh			4.2	71.9
SL			4.1	72.0

76.14 Webster

S	E Line of		28th	st
SL			4.2	71.9
bh			4.1	72.0
"			4.2	71.9
b			4.2	71.9
"			4.5	71.6
bh			4.8	71.3
NL			5.0	71.1
	50'	E of	28th	st
NL			5.0	71.1
bh			4.8	71.3
"			4.9	71.2
b			4.1	72.0
"			4.7	71.4
bh			4.5	71.6
SL			4.2	71.9

7614

	100'	E of	28 St	N
SL			4.9	71.2
bk			4.8	71.3
4			5.1	71.0
6			5.3	70.8
4			5.4	70.7
bk			5.4	70.7
NL			5.5	70.6
	150'	E of	28 St	N
NL			5.6	70.5
bk			5.5	70.6
4			5.3	70.8
6			4.9	71.2
4			5.0	71.1
bk			4.9	71.2
SL			4.9	71.2

N.14 Webster

	200'	E of	28 St	N
SL			4.0	72.1
bk			4.6	71.5
4			4.3	71.8
6			4.2	71.9
4			4.4	71.7
bk			5.1	71.0
NL			5.2	70.9
	250'	E of	28 St	N
NL			4.7	71.4
bk			4.6	71.5
4			4.6	71.5
6			4.2	71.9
4			3.9	72.2
bk			4.3	71.8
SL			3.7	72.4

		76.14		
	300	E of	rail	st.
SL			3.9	72.2
bl			4.1	72.0
4			4.2	71.9
6			4.1	72.0
4			4.4	71.7
bl			4.6	71.5
RL			4.5	71.6
	350	E of	rail	st
RL			4.7	71.4
bl			4.5	71.6
4			4.3	71.8
6			3.9	72.2
4			4.2	71.9
bl			4.5	71.6
SL			3.9	72.2
TP	5.20	77.17	4.27	71.87

		77.17		Webster
	400	E of	rail	st
SL			5.0	72.2
bl			5.2	71.9
4			5.0	72.2
6			5.0	72.2
4			5.7	71.5
bl			5.7	71.3
RL			5.7	71.5
	450	E of	rail	st
RL			6.0	71.2
bl			5.9	71.3
4			5.0	72.2
6			5.3	71.9
4			5.5	71.7
bl			5.4	71.8
SL			4.9	72.3

		7717		
	500'	E of	28 ft	st
SL			5,3	71.9
bl			5,6	71.5
y			5,7	71.5
b			5,7	71.5
y			5,6	71.6
bl			5,7	71.5
NL			5,7	71.5
	550'	E of	28 ft	
NL			6.1	71.1
bl			6,0	71.2
y			6,0	71.2
b			5,7	71.5
y			5,5	71.7
b			5,0	72.2
SL			5,2	72.0

		7717		Website
	600'	E =	W L	29 ft st (60')
SL			5,3	71.9
bl			5,6	71.6
y			5,7	71.5
b			5,0	72.2
y			5,8	71.4
bl			6.1	71.1
NL			6.1	71.1
	W bb of		29 ft	st
NL			6,2	71.0
bl			5,9	71.3
y			5,9	71.3
b			5,6	71.6
y			5,5	71.7
bb			5,8	71.4
SL			5,4	71.7

77.17

	W ¼ of	rail	at
S2		5.8	71.4
bk		5.9	71.3
4		5.9	71.3
6		5.9	71.3
4		5.9	71.3
bk		6.0	71.2
N2		5.9	71.3
	Center of	rail	at
N2		5.9	71.3
bk		6.2	71.0
4		5.4	71.8
6		5.2	71.9
4		5.8	71.4
bk		5.3	71.9
S2		5.1	72.1

77.17 Webster

	E ¼ of	rail	at
S2		5.5	71.7
bk		5.6	71.6
4		5.8	71.4
6		5.5	71.5
4		4.7	72.5
bk		5.6	71.6
N2		6.0	71.2
	E bk of	rail	at
N2		6.0	71.2
bk		6.1	71.1
4		5.2	72.0
6		5.0	72.2
4		5.7	71.5
bk		5.8	71.4
S2		5.3	71.9

7717

	E line of	29th st		
S2			5.4	71.8
bb			5.7	71.5
4			5.9	71.3
b			5.6	71.6
4			5.9	71.3
bb			6.1	71.1
N2			5.9	71.2
	50'	E of	29th	st
N2			6.3	70.9
bb			6.1	71.1
4			6.0	71.2
bb			5.8	71.4
4			5.7	71.5
bb			5.9	71.3
S2			5.4	71.8

7717

Webster

	100	E of	29th	st
S2			5.4	71.8
bb			5.7	71.5
4			5.9	71.3
b			5.6	71.6
4			5.9	71.3
bb			5.4	71.8
N2			5.5	71.7
	150	E of	29th	st
N2			5.2	72.0
bb			5.9	71.3
4			5.8	71.4
b			5.6	71.6
4			5.6	71.6
bb			5.6	71.6
S2			5.4	71.8
TP	5.76	77.21	5.72	71.45

77.21

	200'	E of	2 git	st
SL			5,4	71.8
bh			5,6	71.5
"			5,8	71.4
b			5,5	71.7
"			5,5	71.7
bh			5,7	71.5
NL			6,1	71.1
	250'	E of	2 git	st
NL			6,0	71.2
bh			6,0	71.2
"			5,6	71.5
b			5,1	72.1
"			5,5	71.6
bh			5,6	71.5
SL			5,1	72.1

77.21 Webster

	275'	E of	2 git	st
SL			4,6	72.6
bh			5,1	72.1
"			5,6	71.5
b			5,0	72.2
"			5,4	71.8
bh			5,9	71.2
NL			5,9	71.2
	300'	E of	2 git	st
NL			5,9	71.2
bh			4,5	72.7
"			3,5	73.7
b			4,4	72.7
"			5,6	71.6
bh			5,3	71.9
SL			5,0	72.2

		77.21		
	325'	E of	29 ft	st
SL			4.8	72.4
bl			5.0	72.2
"			5.2	72.0
b			5.2	72.0
"			5.4	71.8
bl			5.6	71.6
nL			5.6	71.6
	350'	E of	29 ft	st
nL			5.6	71.6
bl			5.2	72.0
"			5.0	72.2
b			4.9	72.3
"			5.2	72.0
bl			5.0	72.2
SL			4.8	72.4

		77.24		webster
	400'	E of	29 ft	st
SL			4.2	73.0
bl			4.4	72.8
"			5.0	72.2
b			5.2	72.0
"			5.2	72.0
bl			5.4	71.8
nL			5.4	71.8
	425'	E of	29 ft	st
nL			5.1	72.1
bl			5.4	71.8
"			5.3	71.9
b			5.2	72.0
"			5.2	72.0
bl			5.5	71.5
SL			4.7	72.5

		7721		
	450'	E of	2 git	st
SL			3,8	73.4
bl			4,4	72.8
"			5,0	72.2
b			3,7	73.5
"			3,3	73.9
bl			4,4	72.8
NL			5,5	71.7
	475'	E of	2 git	st
NL			5,2	72.0
bl			5,0	72.2
"			4,3	72.9
b			4,7	71.5
"			4,9	72.3
bl			4,7	72.5
SL			3,6	73.6

POSTED

		7721		webster
	500'	E of	2 git	st
SL			3,9	73.3
bl			4,5	72.6
"			4,6	72.6
b			4,5	72.7
"			4,2	73.0
bl			3,7	73.5
NL			4,4	72.8
	525'	E of	2 git	st
NL			4,5	72.7
bl			3,5	73.7
"			4,2	73.0
b			4,9	72.3
"			4,6	72.6
bl			4,8	72.4
SL			4,0	73.2

		77.21			
	550'	E of	29th	st	
SL			3.8	72.4	
bl			4.8	72.4	
"			4.5	72.7	
b			4.0	73.2	
"			4.8	72.4	
bl			5.0	72.2	
NL			5.2	72.0	
	575'	E of	29th	st	
NL			5.4	71.8	
bl			5.4	71.8	
"			5.2	72.0	
b			4.8	72.4	
"			4.8	72.4	
bl			4.8	72.4	
SL			4.1	73.1	

		77.21		W cbster	
	600' E = W L of 30th st (80')				
SL			3.8	72.4	
bl			4.6	72.6	
"			4.5	72.7	
b			4.6	72.6	
"			5.2	72.0	
bl			5.2	72.0	
NL			5.4	71.9	
TP	3.68	76.99	3.90	73.31	on old # 20' E of W L 30'
	W bl of		30th st		
NL			3.6	73.4	
bl			4.3	73.7	
"			5.0	72.0	
bl			4.8	72.2	
"			4.6	72.4	
bl			4.4	72.6	
SL			3.6	73.4	

		7699		
	W 1/4 of 30th st			
SL			4,1	72.9
bh			4,8	72.2
"			5,0	72.0
b			5,1	71.9
"			5,3	71.7
bh			4,4	72.6
nL			4,0	73.0
	Center of 30th st			
nL			5,2	71.8
bh			4,9	72.1
"			5,5	71.5
b			4,7	72.3
"			5,0	72.0
bh			4,9	72.1
SL			4,9	72.1

		7699		Webster
	E 1/4 of		30th	st
SL			5,0	72.0
bh			5,2	71.8
"			4,8	72.2
b			5,0	72.0
"			5,5	71.5
bh			5,3	71.7
nL			5,4	71.6
	E bh of		30th	st
nL			5,2	71.8
bh			5,1	71.9
"			4,9	72.1
bh			3,4	73.6
"			4,4	72.6
bh			5,3	71.7
SL			5,0	72.0

76.99

	E 2 of	20 th	25
S2		5,0	72.0
bb		5,2	71.8
4		4,3	72.7
b		3,5	73.5
4		4,7	72.3
bl		4,7	72.3
N2		4,5	72.5
	2.5' E of	30 th	N
N2		5,2	71.8
bl		5,2	71.8
4		5,2	71.8
b		5,2	71.8
4		5,2	71.8
bl		5,2	71.8
S2		3,0	74.0

76.99 Webster

	50' E of	30 th	N
S2		5,0	72.0
bl		5,0	72.0
4		5,2	71.8
b		5,2	71.8
4		5,1	71.9
bl		5,1	71.9
N2		4,5	72.5
	100' E of	30 th	N
N2		4,6	72.4
bl		4,6	72.4
4		3,4	73.6
b		3,4	73.6
4		4,9	72.1
bl		4,8	72.2
S2		4,8	72.2

		76.99			
	150'	E of	30th	st	
SL			3,2	73.8	
bl			4,3	72.7	
"			4,4	72.6	
b			4,4	72.6	
"			4,4	72.6	
bl	POSTED		4,3	72.7	
NL			4.0	73.0	
TP	3,10	77,59	2,50	74.49	Fever 150' E 30
	200'	E of	30th	st	
SL			3,3	74.3	
bl			4,6	73.0	
"			4,9	72.7	
b			4,8	72.8	
"			4,7	72.9	
bl			4,3	73.3	
NL			4,1	73.5	

		77.59		Webster
	250'	E of	30th	st
NL			4,0	73.6
bl			4,3	73.3
"			4,5	73.1
b			4,7	72.9
"			4,7	72.9
bl			4,8	72.8
SL			4,7	72.9
	300'	E of	30th	st
SL			4,3	73.3
bl			4,5	73.1
"			4,4	73.2
b			4,4	73.2
"			4,5	73.1
bl			4,5	73.1
NL			4,1	73.5

		77.59			
	350'	E of	30th St		
NL			3,8	73.8	
bl			4,3	73.3	
"			4,3	73.3	
b			4,5	73.1	
"			4,3	73.3	
bl			4,4	73.2	
SL			4,5	73.1	
	400'	E of	30th St		
SL			4,2	73.4	
bl			4,0	73.6	
"			3,8	73.8	
b			3,3	74.3	
"			3,3	74.3	
bl			3,3	74.3	
NL			3,6	74.0	
TP	5,08	79.25	3,40	74,19	Poor drop

		79.25		Webster
	450'	E of	30th St	
SL			5,3	74.0
bl			5,7	73.6
"			5,6	73.7
b			5,3	74.0
"			5,3	74.0
bl			5,4	73.9
NL			5,4	73.9
	500'	E of	30th St	
NL			4,5	74.7
bl			4,4	74.9
"			4,8	74.5
b			4,8	74.5
"			5,4	73.9
bl			5,3	74.0
SL			5,4	73.9

	79.25	7			
	500'	E of	30th	st	
SL			6,4	72.9	
bb			5,8	73,5	
"			5,6	73,7	
b			5,0	74.3	
"			4,7	74.6	
bb			4,9	74.4	
NL			4,8	74.5	
	600'	E ~~to~~ W ~~Lo~~ of	31st	(60')	
NL			5,0	74.3	
bb			5,0	74.3	
"			5,1	74.2	
b			6,1	73.2	
"			6,6	72.7	
bb			7,0	72.3	
SL			6,7	72.6	

		79.25		Webster
	W bb of		31st	st
SL			6,5	72.8
bb			7,1	72.2
"			6,6	72,7
b			6,4	72,9
"			4,8	74.5
bb			4,4	74.9
NL			4,4	74.9
	W ~~14~~ of	31st st		
NL			5,4	73,9
bb			5,6	73.7
"			6,2	73.1
b			6,5	72.8
~~4~~			6,7	72.6
bb			7,5	71.8
SL			7,7	71.6

	7	79.25			
	Center of 31st st			Center RR (Top of RR Tris)	
SL			6.5	72.7	
bl			6.2	73.1	
y			6.0	73.3	
b			5.6	73.7	
y			5.4	73.9	
bl			5.1	74.2	
NL			4.9	74.4	
	E 1/4 of		31st	st	
NL			6.6	72.7	
bl			6.7	72.7	
y			6.4	72.9	
b			7.2	72.1	
y			7.5	71.8	
bl			7.6	71.7	
SL			7.6	71.7	

		79.25		Webster	
	E bl of		31st	st	
SL			7.2	72.1	
bl			7.1	72.2	
y			6.9	72.3	
b			6.7	72.5	
y			6.3	73.0	
bl			6.4	72.9	
NL			6.6	72.7	
	E Line of		31st	st	
NL			6.2	73.1	
			6.8	72.5	
			7.0	72.3	
			6.9	72.4	
			6.8	72.5	
			6.5	72.8	
			6.1	73.2	
TP	11.27	84.83	5.70	73.56	BMSE 31st Webster

8483

	50'	E of	31 at	at
SL			9,4	75.4
bl			9,8	75.0
4			10,7	74.1
b			10,7	74.1
4			10,9	73.9
bl			12,0	72.8
NL			12,5	73.3
	75'	E of	31 at	at
NL			11,6	73.2
bl			11.1	73.7
4			10,3	74.5
b			10,7	74,1
4			10,4	74.4
bl			9,1	75.7
SL			7,5	77.3

8483 Webster

54

	100'	E of	31 at	at
SL			6,2	78.6
bl			7,4	77.4
4			9,1	75.7
b			10,0	74.8
4			10,5	74.3
bl			10,8	74,0
NL			11,2	73.6
	125'	E of	31 at	
NL			8,8	76.0
bl			9,5	75.3
4			9,7	75.1
b			9,6	75.2
4			8,0	76.8
bl			6,2	78.6
SL			5,9	78.9

84.83

	150'	E of	31 ft	ft
SL			6.0	78.8
bk			7.0	77.8
y			7.8	77.0
b			8.7	76.1
y			9.2	75.6
bk			9.2	75.6
RL			9.0	75.8

POSTED

	175'	E of	31 ft	ft
RL			6.9	78.9
bk			7.0	77.8
y			7.7	77.1
b			7.1	77.7
y			6.2	78.6
bk			6.0	78.8
SL			5.4	79.4

84.83 Webster

	200'	E of	31 ft	ft
SL			3.7	81.4
bk			4.5	80.3
y			5.9	78.9
b			6.8	77.9
y			6.8	77.9
bk			6.6	78.2
RL			7.7	77.1

	225'	E of	31 ft	ft
RL			6.9	77.9
bk			7.3	77.5
y			6.4	78.4
b			6.0	78.8
y			5.2	79.5
bk			5.0	79.8
SL			4.4	80.4

		8483		
	250'	E of	31st	st
SL			2.6	82.2
bh			4.6	80.2
"			5.4	79.4
b			5.4	79.4
"			5.4	79.4
bh			5.4	79.4
NL			5.0	79.8
	275'	E of	31st	st
NL			4.3	80.5
bh			4.7	80.1
"			4.3	80.5
b			3.0	81.5
"			3.5	81.3
bh			4.3	80.5
SL			4.5	80.3

		8483		webster
	300'	E of	31st	st
SL			2.2	82.6
bh			3.0	81.5
"			2.6	82.2
b			3.6	81.2
"			3.7	81.1
bh			3.6	81.2
NL			2.2	82.6
TP	836	9053	266	8217
	325'	E of	31st	st
NL			8.1	82.4
bh			7.9	82.6
"			8.0	82.5
b			7.7	82.8
"			7.5	83.0
bh			8.3	82.2
SL			8.5	82.0

90.53

	350'	E of	31 st	st
SL			7,8	82.7
bl			7,0	83.5
y			5,7	84.8
b			4,9	85.6
y			6,2	84.3
bl			6,3	84.0
NL			6,1	84.4
	375'	E of	31 st	st
NL			5,5	85.0
bl			5,7	84.8
y			5,8	84.7
b			6,0	84.5
y			6,2	84.3
bl			6,1	84.4
SL			6,9	83.6

90.53

Webster

	400'	E of	31 st	st
SL			6,3	84.2
bl			5,9	84.6
y			5,7	84.8
b			5,3	85.2
y			4,8	85.7
bl			4,4	86.1
NL			4,4	86.1
	425'	E of	31 st	st
NL			3,8	86.7
bl			3,6	86.9
y			3,7	86.8
b			4,0	86.5
y			4,3	86.2
bl			5,0	85.5
SL			5,8	84.7

90.53

	450'	E of	31st	st
SL			4,9	85.6
bh			4,3	86.2
y			3,8	86.7
b			3,7	86.8
y			3,7	86.8
bh			3,4	87.1
NL			3,3	87.2
	500'	E of	31st	st
NL			2,9	87.6
bh			2,7	87.8
y			2,6	87.9
b			3,1	87.4
y			4,0	86.5
bl			4,0	86.5
SL			4,4	86.1

90.53 Webster

	550'	E of	31st	st
SL			5,9	84.6
bh			5,4	85.1
y			4,5	86.0
b			3,8	86.7
y			3,6	86.9
bl			3,3	87.2
NL			2,9	87.6
	600'	E =	WL	32nd st (60')
NL			2,6	87.9
bh			3,2	87.3
y			3,6	86.9
b			3,9	86.6
y			4,7	85.8
bl			5,0	85.5
SL			5,1	85.4

905-3

W bb of 32 nd st

SL	5.2	85.3
bb	5.2	85.3
4	4.8	85.7
6	4.3	86.2
7	3.4	87.1
bb	2.9	87.6
NL	2.4	88.1

W 1/4 of 32 nd st

NL	2.2	88.3
bb	2.9	87.6
7	3.6	86.9
6	4.0	86.5
4	4.9	85.6
bb	5.3	85.2
SL	5.5	85.0

905-3 Webster

Center of 32 nd st

SL	4.6	84.9
bb	5.3	85.2
4	4.7	85.8
6	4.1	86.4
7	3.5	87.0
bb	3.0	87.5
NL	2.2	88.3

E 1/4 of 32 nd st

NL	2.5	88.0
bb	3.1	87.4
4	3.7	86.8
6	4.4	86.1
4	5.1	85.4
bb	5.3	85.2
SL	5.7	84.8

90.53

	Ebb	of	32nd	st
SL			5.0	85.5
bk			5.0	85.5
4			4.6	85.9
6			4.0	86.5
4			3.6	86.9
bk			3.4	87.1
NL			2.6	87.9
	E Line	of	32nd	st
NL			2.6	87.9
bk			3.1	87.4
4			3.4	87.1
6			3.7	86.8
4			4.3	86.2
bk			4.8	85.7
SL			5.1	85.4
TP	160	90.48	1.85	84.68

90.28 Quebec

	50'	E of	32nd	st
SL			5.3	85.0
bk			4.7	85.6
4			4.5	85.8
6			3.9	86.4
4			3.6	86.7
bk			3.2	87.1
NL			2.5	87.8
	100'	E of	32nd	st
NL			2.3	88.0
bk			3.4	86.9
4			4.0	86.3
6			4.2	86.1
4			4.7	85.6
bk			5.0	85.3
SL			5.3	85.0

		90.28		
	150'	E of	32nd st	
SL			6.3	84.0
bl			5.5	84.8
"			5.6	84.7
b			4.8	85.5
"			4.3	85.9
bl			3.9	86.4
NL			2.9	87.4
	200'	E of	32nd st	
NL			3.1	87.2
bl			3.8	86.5
"			5.2	85.1
b			5.4	84.9
"			6.4	83.9
bl			6.8	83.5
SL			8.3	82.0
Tp	3.69	85.84	8.13	92.15

		85.84		Webster
	225'	E of	32nd st	
SL			4.5	81.3
bl			3.9	81.9
"			3.3	82.5
b			2.5	83.3
"			1.9	83.9
bl			0.4	85.4
NL			0.1	85.7
	250'	E of	32nd st	
NL			4.6	81.2
bl			5.1	80.7
"			5.6	80.2
bl			5.7	80.1
"			5.2	80.6
bl			5.9	79.9
SL			5.7	80.1

		85.84		
	275'	E of	32nd st	
SL			10.4	75.4
bb			10.2	75.6
"			10.2	75.6
b			10.5	75.3
"			10.7	75.1
bb			10.2	75.6
NL			9.8	76.0
TP	1.42	76.67	10.59	75.25
	300'	E of	32nd st	
NL		76.2	6.0	70.7
bb			6.2	70.5
"			6.4	70.3
b			6.7	70.0
"			7.2	69.5
bb			7.6	69.1
SL			7.7	69.0
TP	0.75	67.62	9.80	66.87

		67.62		Webster
	338'	E of =	W line of 33 st (60')	
SL			6.4	61.2
bb			5.8	60.8
"			5.3	62.3
b			5.1	62.5
"			4.6	63.0
bb			3.7	63.9
NL			2.8	64.8
	W bb of		53d	
NL			4.1	63.5
bb			5.0	62.6
"			5.8	61.8
b			6.2	61.4
"			6.4	61.2
bb			6.6	61.0
SL			7.1	60.5

67.62

W 1/4 of 33d st

SL		8,4	59.6
bh		7,2	60.4
"		7,2	60.4
b		7,0	60.6
"		6,7	61.0
bh		6,2	61.4
NL		5,9	61.7

Center of 33d st

NL		6,7	60.9
bh		7,4	60.2
"		7,5	60.1
b		7,5	60.1
"		8,0	59.6
bh		8,0	59.6
SL		8,6	59.0

67.62 Webster

E 1/4 of 33d st

SL		9,6	58.0
bh		9,3	58.3
"		9,5	58.5
b		8,9	58.7
"		8,5	59.1
bh		8,2	59.4
NL		7,7	59.9

E bh of 33d st.

NL		8,3	59.3
bh		8,9	58.7
"		9,3	58.3
b		9,5	58.1
"		9,8	57.8
bh		9,8	57.8
SL		9,7	57.9

67.62

E Line of 33d St

SL	11.2	56.4
Lh	10.9	56.7
4	10.5	57.1
6	10.2	57.4
4	10.2	57.4
Lh	9.8	57.8
NL	9.6	58.0

POSTED

Crossection of 32nd st (60')

S of Woolman to Bay

	11,50	65.84		54.34	Bm 31 + Woolman
TP	6,90	66.33	6.41	59.43	Bm NW Corner of 32 + Wool
	S line of Woolman St				
WL			11,2	55.1	
bh			11,3	55.0	
"			11,4	54.9	
b			10,9	55.4	
"			11,0	55.3	
bh			10,9	554	
EL			11,0	553	
	25' S of Woolman				
EL			13,2	53.1	
bh			12,5	53.8	
"			11,5	54.8	
b			11,5	548	
"			11,7	54.6	
bh			11,6	54.7	
WL			10,9	55.4	

POSTED

66.33 32nd st

	50' S of Woolman			
WL			7,5	58.8
bh			9,3	57.0
"			10,7	556
b			11,0	55.3
"			11,0	55.3
bh			12,6	53.7
EL			14,0	52.3
	75' S of Woolman			
EL			11,7	54.6
bh			10,1	56.2
"			8,7	57.6
b			8,7	57.6
"			8,3	58.0
bh			6,6	59.7
WL			5,7	60.6

6633

	100' Sq	Woolman
W2	4.3	62.0
bb	5.0	61.3
4	6.3	60.0
6	7.1	59.2
4	6.8	59.5
bb	7.5	58.8
E2	9.3	57.0
	125' Sq	woolman
E2	8.0	58.3
bb	7.3	59.0
4	6.6	59.7
6	6.0	60.3
4	5.8	60.5
bb	4.5	61.8
W2	4.0	62.3

6633 32nd St

#	150' Sq	woolman
W2	4.0	62.3
bb	4.7	61.6
4	5.3	61.0
6	5.8	60.5
4	5.7	60.6
bb	6.3	60.0
E2	7.8	58.5
	200' Sq	Woolman
E2	8.9	57.4
bb	8.2	58.1
4	7.6	58.7
6	7.1	59.2
4	6.3	60.0
bb	6.4	59.9
W2	6.3	60.0

6633

250' S of N column

W2			7,8	58.5
bh			7,8	58.5
4			8,5	57.8
b			8,5	57.8
4			8,5	57.8
bh			8,6	57.7
E2			9,1	57.2

300' S = N end of Valle (80')

E2			9,8	56.5
bh			9,7	56.6
4			9,7	56.6
b			9,6	56.7
4			9,6	56.7
bh			9,3	57.0
W2			8,7	57.6
TP	1.18	5893	8.58	5775

5893

32nd st

N bank of Valle

W2	1,8	57.1
bh	2,0	56.9
4	2,6	56.3
b	2,6	56.3
4	2,5	56.4
bh	2,5	56.4
E2	3,0	55.9

N ½ of Valle

E2	3,0	55.6
bh	2,7	56.2
4	2,8	56.1
b	3,1	55.8
4	3,0	55.9
bh	2,7	56.2
W2	2,2	56.7

1893

Center of Valley

W2	2,4	56.5
bk	3,0	55.9
4	3,6	55.3
6	3,3	55.6
4	3,3	55.6
bk	3,5	55.4
E2	4,0	54.9

S ¼ of Valley

E2	5,0	53.9
bk	4,5	54.4
4	4,2	54.6
6	4,0	54.9
4	3,8	55.1
bk	3,6	55.3
W2	2,2	56.7

1893 32nd ft

S bk of Valley

W2	3,0	55.9
bk	4,0	54.9
4	4,4	54.5
6	4,4	54.5
4	5,2	53.6
bk	5,1	53.8
E2	5,7	53.2

S Line of Valley

E2	6,7	52.2
bk	6,0	52.9
4	5,9	53.0
6	5,2	53.7
4	4,8	54.1
bk	4,8	54.1
W2	4,1	54.8

5893

	50'	Soft	Volk	
WL			6.2	52.7
bk			8.8	50.1
4			9.1	49.8
6			9.8	49.1
4			11.4	47.5
bk			11.8	47.1
EL			12.7	46.2
TP	2.85	50.58	11.20	47.73

	100'	Soft	Volk	
EL			8.5	42.1
bk			7.2	43.4
4			6.1	44.5
6			4.9	45.7
4			4.1	46.5
bk			3.0	47.6
WL			1.9	48.7

50.58

52nd St

	150'	Soft	Woolman	
WL			4.5	46.1
bk			6.0	44.6
4			7.0	43.6
6			7.7	42.9
4			9.2	41.4
bk			9.8	40.8
EL			11.1	39.5

195' Soft = N 2ST 27 (60')

EL		13.2	37.3
bk		12.7	37.9
4		12.3	38.3
6		11.3	39.3
4		10.2	40.4
bk		9.8	40.8
WL		8.1	42.5

50.58

N bb of ST st

WL			9,0	41.6
bb			10,6	40,0
"			11,0	39.6
b			11,9	38.7
"			12,6	38.0
bb			13,1	37.5
EL			13,7	36.9
TP	8,40	46,57	12,41	38,17

N 1/4 of ST st

EL			10,3	36.3
bb			9,4	37.2
"			8,8	37.8
b			7,9	38.7
"			7,3	39.3
bb			6,9	39.7
WL			5,7	409

46,57 32 [illegible]

Center of ST st

WL			6,1	40.5
bb			7,2	39.4
"			7,5	39.1
b			8,2	38.4
"			8,9	37.7
bb			9,5	37.1
EL			10,0	36.6

S 1/4 of ST st

EL			10,5	36.1
bb			9,9	36.7
"			9,4	37.2
b			8,8	37.8
"			7,8	38.8
bb			7,5	39.1
WL			6,1	405

4657 46.57

S bb of ST 22

WL	6,4	40 2
bb	7,7	38.9
4	8,2	38.4
6	8,4	38.2
4	9,1	37.5
bb	10,5	36.1
EL	10,8	35.8

S L of ST 22

EL	9,7	36.9
bb	10,3	36.3
4	9,4	37.2
6	8,7	37.9
4	8,1	38.5
bb	7.8	38.8
WL	6,5	40.1

4657

300' Sof Wall = 22 Martin 80

WL	5.5	41.1
bb	6,0	40.6
4	6,4	40,2
6	6,5	40.1
4	6,5	40.1
bb	6.7	39.9
EL	7,0	39.6

N bb of Martin

EL	6,5	40.1
bb	6,0	40.6
4	5-9	40.7
6	5-6	41.0
4	5-6	41.0
bb	5-4	41.2
WL	5-1	41.5

46.57

N 1/4 of Martin

WL		4.9	41.7
bb		5.2	41.4
"		5.3	41.3
b		5.4	41.2
"		5.7	40.9
bb		5.6	41.0
EL		5.5	41.1

Center of Martin

EL		5.2	41.4
bb		5.3	41.3
"		5.2	41.4
bb		5.3	41.3
"		5.2	41.4
bb		5.1	41.5
WL		4.8	41.8

46.57 32nd st

S 1/4 of Martin st

WL		5.4	41.2
bb		5.4	41.2
"		5.4	41.2
b		5.1	41.5
"		5.0	41.6
bb		5.0	41.6
EL		5.0	41.6

S bb of Martin

EL		4.8	41.8
bb		4.9	41.7
"		5.1	41.5
b		5.3	41.3
"		5.6	41.0
bb		5.2	41.4
WL		5.2	41.4

4657

S Line of Marten st

WL			6,1	40.5	
bb			6,0	40.6	
"			6,0	40.6	
b			5,9	40.7	
"			5,5	41.1	
bb			5,0	41.6	
EL			5,0	41.6	
	120	42.49	5.28	41.29	Bm MW Marten

50' S of Marten st

WL			3,7	38.8	
bb			3,7	38.8	
"			3,5	39.0	
b			3,3	39.2	
"			3,1	39.4	
bb			2,9	39.6	
EL			2,4	40.1	

4249 32nd st

100' S of Marten

EL			3,5	39.0
bb			4,0	38.5
"			4,3	38.2
bb			4,6	37.9
"			4,8	37.7
bb			4,6	37.9
WL			4,4	38.1

150' S of Marten

WL			7,2	35.3
bb			7,5	35.0
"			7,4	35.1
b			7,3	35.2
"			7,0	35.5
bb			6,5	36.0
EL			6,0	36.6
TP	0,23	36.19	6.50	35.99

36.19

165' S of Morton = N S of Greely on East (Ralston) (80')

ES	0,4	35.8
bb	0,9	35.3
4	1,6	34.6
b	1,9	34.3
4	2,0	34.2
bb	1,9	34.3
WS	2,0	34.2

N bb of Ralston st

WS	2,6	33.6
bb	2,4	33.8
4	2,5	33.7
b	2,4	33.8
4	2,4	33.8
bb	1,5	34.7
ES	1,0	35.2

3619

37 mil

N ¼ of Ralston st

ES	2,2	34.0
bb	2,3	33.9
4	2,8	33.4
b	3,1	33.1
4	3,2	33.0
bb	3,3	32.9
WS	3,7	32.5

Center of Ralston

WS	4,4	31.8
bb	3,8	32.4
4	4,0	32.2
b	3,8	32.4
4	3,6	32.6
bb	3,3	32.9
ES	3,0	33.2

		36.19		
	S ¼ of Ralston so			
Es			3,6	32.6
bh			4,4	31.8
"			5,0	31.2
b			4,6	31,6
"			4,8	31.4
bl			5,8	304
Wl			6,0	30.2
	S bh of Ralston			
Wl			9,0	27.2
bh			6,4	29.8
"			6,7	295
b			6,6	29,6
"			6,5	29.7
bl			6,0	30.2
Es			4,8	31.4

		36.19		32 mi
(245's) S Line of Ralston				
Es			6,5	29.7
bh			7,3	28.9
"			7,7	28.5
b			7,7	28.5
"			8,0	28.2
bl			8,4	27.8
Wl			11,0	25.2
TP	02,6	24.49	11,96	24,23
	275' S of Morton 30' S of Ralston			
Wl			3,8	20.7
bl			1,2	23.3
"			0,0	24.5
b			+0,5	25,0
"			+0,4	24.9
bl			0,0	24.2
Es			+1,0	25.2

2449

300' S = N ½ of Grid (80')

E2	3.3	21.2
bb	3.7	20.8
4	3.8	20.7
6	3.2	21.3
1	3.9	20.6
bb	7.2	17.3
W2	9.1	15.4

N bb of Grid

W2	11.2	13.3
bb	9.8	14.7
4	6.4	18.3
6	4.8	19.7
1	3.6	18.9
bb	6.0	18.5
E2	4.9	19.6

2449

N ¼ of Grid

E2	6.6	17.9
bb	8.0	16.5
4	7.5	17.0
6	5.8	18.7
1	7.0	17.5
bb	10.2	14.3
W2	11.5	13.0

Center of Grid

W2	12.3	12.2
bb	9.8	14.7
1	7.1	17.4
6	6.7	17.8
1	10.6	13.9
bb	10.4	14.1
E2	9.0	15.5

2449

S ¼ of Grady

El	10.9	13.6
bl	11.5-	13.0
4	9.0	15.5
6	7.3	17.2
4	8.8	15.7
bl	12.0	12.5
WR	13.0	11.5

S bl of Grady

WR	11.8	12.7
bl	13.5-	11.0
4	9.3	15.2
6	7.4	17.1
4	9.0	15.5
bl	10.1	14.4
El	11.0	13.5

2449 32 m

S bl of Grady

El	11.0	13.5
bl	9.7	14.8
4	8.0	16.5
6	7.1	17.4
4	8.0	16.5
bl	11.0	13.5
WR	11.9	12.6

X 10' S of Grady

WR	6.9	17.6	Top of Rd Rail
bl	7.6	16.9	
4	7.0	17.5	
6	7.1	17.4	
4	7.2	17.3	
bl	10.0	14.5	
El	15.-	9.3	

X See Page 81

24-49

30' S of Gruby

E2	7.8	16.7	T&PRR Rail
bb	7.7	16.8	
4	7.2	17.3	
6	6.7	17.8	
4	6.7	17.8	
bb	5.3	19.2	
W2	4.6	19.9	

40' S of Gruby

W2	2.2	22.3	
bb	2.7	21.8	
4	4.8	19.7	
6	5.3	19.2	
4	6.3	18.2	
bb	7.0	17.5	
E2	8.0	16.5	
TP	1.04	35-43	1.0 x3.39

35-43

60' S of Gruby

E2	14.7	20.7	
bb	13.6	21.8	
24	12.0	23.4	
+6	12.3	23.1	
	64.5	20.9	
bank	14.5	20.9	
4	13.8	21.6	
+8	13.4	22.0	
bb	7.3	28.1	
W2	7.4	28.0	

80 S of Gruby (72' wide here)

E2	8.0	27.4	
bb	7.3	28.1	
+3	4.2	31.2	
bk+24=bank	11.7	23.7	
bk+24	9.0	26.4	
TP	7.66	40.71	4.38 3305
10' W.	4.5	36.2	
W2	5.7	35.4	

40.71

100' S of Greely (84' min).

El	7.9	32.8
+10' bl	6.6	34.1
+20'	4.7	36.0
+30'	3.1	37.6
+40	2.0	38.7
+49	13.2	27.5
+60	12.8	27.9
+70	12.0	28.7
+72 bl	2.0	38.7
+84=WL	5.7	35.0

40.71 32°

120' S of Greely (96' min)

El	4.0	36.7
+10' bl	2.8	37.9
+20	1.6	39.1
+30	1.0	39.7
+40	1.0	39.7
+49	0.7	40.0
+52	8.5	32.2
+60	8.3	32.4
+70	7.7	33.0
+80	5.0	35.7
+96	7.2	33.5

40.71

Pueblo 135' S of Grady = 165' N of Logan

E2	1.0	39.7
410 bk	0.6	40.1
420	0.4	40.3
430	0.2	40.5
440	0.0	40.7
450	0.0	40.7

POSTED

(Pueblo) 135' S of Grady = 165' N of Logan

E2 Going South	0.0	40.7
47'	0.0	40.7
bk	3.0	37.7
44	5.8	34.9
4	5.2	35.5
b	4.8	35.9
4	4.3	36.4
bk	5.5	35.2
W2 Going South	6.7	34.3

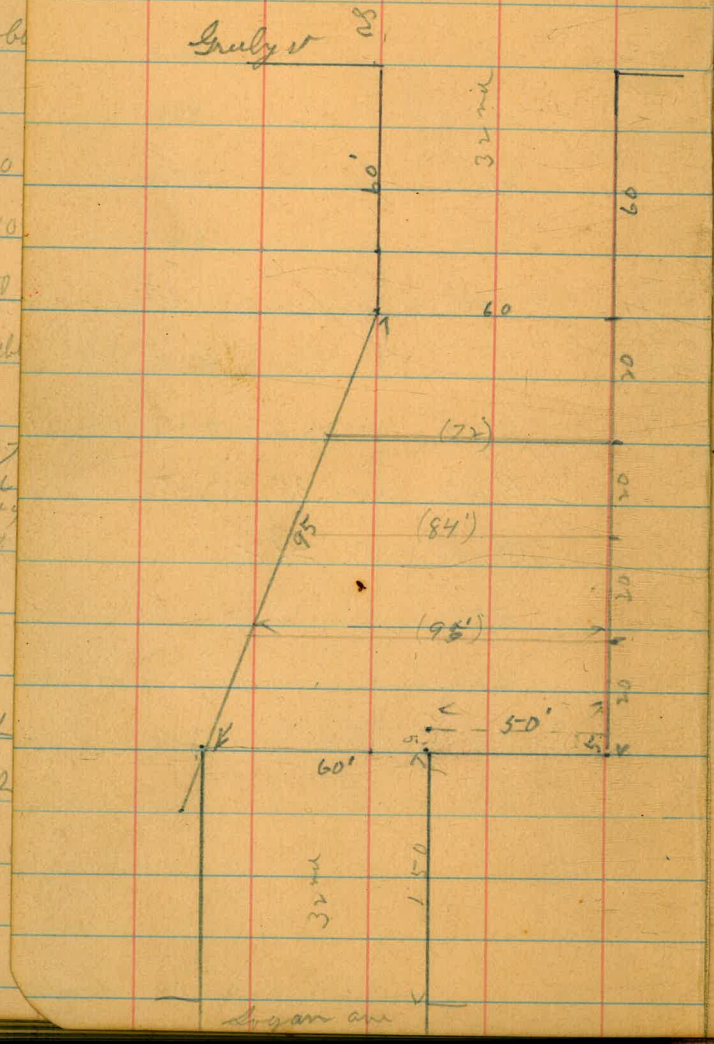
40.71

150' N of Logan

W2			5.5	35.2
bk			4.4	36.3
4			3.1	37.6
b			3.5	37.2
4			4.0	36.7
IP	1044	4929	1.86	38.85
bk			8.3	40.9
E2			7.5	41.7

Ballance of 32 not set in Book 312

See Plan next Page



25.96

2' N Rail

8' S of Grady on west

W L	9.2
bk	9.0
4	8.6
1	8.8
4	9.0
bk	9.2
E L	9.5

30' S of Grady on East

2' S of Rail

E L	8.6
bk	8.5
4	8.4
1	8.5
4	8.8
bk	9.8
~~bk~~	~~9.0~~
W L	9.5

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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