Brooklyn Hights, Levels

400

LEVEL

234

F.B. 234

234

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

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

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	
4	0.24		1.88		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

MICROFILMED
DEC 8 1964

-1216-
234

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

Table

MINUT

1 ...
2 ...
3 ...
4 ...
5 ...
6 ...
7 ...
8 ...
9 ...
10 ...
11 ...
12 ...
13 ...
14 ...
15 ...
16 ...
17 ...
18 ...
19 ...
20 ...

In the

Angle

0
4
5
6
7
8
9
10

Benches 30th St.

Seaman.	237.48	SW	Spk. F. Post
Choate	260.60	NE	" " "
Van Ness.	268.13	SE	" " "
Williams	276.97	SE	" " "
Watkins	280.20	SW	" " "
Horton	286.13	SE	" " "
Vassar.	289.90	SE	" " "
Tufts	293.40	150' W. of 30th	Spk F. Post
Oberline (near)	285.03	Spk. in Anchor of Pipe	

7/ 05

		HI		
BM Seaman ✓ 30th	2.08	239.56		237.48
T.P.	9.49	236.69	12.36	227.20
5 line Seaman				
Center "				
N line "				
50' N of Seaman				
100 " " "				
150 " " "				
200 " " "				
250 " " "				
300 S line Cloate				
45' N of S line Cloate				
T.P.	3.80	236.33	4.16	232.53
70' " " " "				
80 " " " " N line Cloate.				
10' N of Cloate.				
35' " " "				

BM. NE Hub. Seaman & 29th 226.45

29th St.

1

W		C		E	
Rod	Elev	Rod	Elev	Rod	Elev
16.7	220.0	15.5	221.2	13.4	223.3
16.1	220.6	14.6	222.1	12.4	224.3
14.9	321.8	13.2	223.5	BM. on Hub. 10.24	226.45
13.6	223.1	11.2	225.5	8.5	228.2
12.6	224.1	10.0	226.7	7.2	229.5
11.1	325.6	8.9	227.8	6.4	230.3
9.6	227.1	8.1	228.6	6.2	230.5
7.2	229.5	6.1	230.6	5.1	231.6
7.0	229.7	5.1	231.6	3.0	233.7
7.2	229.5	5.8	230.9	2.4	234.3
13.3	223.0	13.2	223.1	4.7	231.6
17.2	219.1	10.4	225.9	8.3	228.0
16.5	219.8	6.6	229.7	5.7	230.6
8.5	227.8	4.9	231.4	2.0	234.2

	Hub 236.33			
85' N of Choate.				
135' " " "				
T.P.	0.42	229.95	7.30	229.03
155' " " "				
185' " " "				
215' " " "				
233' " " "				
260' " " "				
T.P.	13.00	242.02	0.43	229.02
300' S. line Van Ness -				
Center Van Ness				
N. line Van Ness. (Hub. NE Cor.)				
T.P.	13.17	253.59	1.65	240.37
50				
100				
150				

29th St.

W		C		E	
Rod	Elev.	Rod	Elev.	Rod	Elev
11.3	225.0	6.7	225.6	2.4	233.9
17.0	219.3	11.0	225.3	5.6	230.7
12.9	216.6	6.7	228.8	0.7	228.8
22.3	207.2	9.7	219.8	3.8	225.7
10.3	219.2	19.3	210.2	9.6	219.9
7.4	222.1	12.3	217.2	16.9	212.6
3.7	225.8	3.0	226.2	5.1	224.4
11.2	230.8	10.9	231.1	9.3	232.7
7.8	234.2	6.2	235.8	5.4	236.6
4.4	237.6	3.0	239.0	1.6	240.4
14.6	238.9	11.2	242.3	8.4	245.1
13.0	240.5	6.9	246.6	3.8	249.7
8.2	245.3	3.8	249.7	1.4	252.1

29th St.

		253.54									
200	N of Van Ness.										
T.P.	5.26	258.43	0.37	253.17							
250											
280											
290											
295											
300	S line Williams										
15'											
18'											
20'											
35											
40											
55											
75 33	N line Williams										
T.P.	11.12	267.12	2.43	256.00							
50											
100											
150											

W		C		E	
5.8	247.7	2.1	251.4	+0.8	254.3
11.1	247.3	6.3	252.1	3.2	255.2
17.3	241.1	—		—	
—		8.8	249.6	—	
26.6	231.8	—		—	
23.4	235.0	—		4.1	254.3
—		23.0	230.4	—	
—		—		6.5	251.9
13.2	245.2				
—		—		16.7	241.7
—		8.1	250.3	—	
—	—	—		5.2	253.2
5.1	253.3	3.3	255.1	2.4	256.0
10.5	256.6	8.9	258.2	7.6	259.5
8.4	258.7	7.0	260.1	5.6	261.5
7.0	260.1	5.5	261.6	3.9	263.2

29th St.

267.12

200	M of Williams			
T.P.	11.19	275.78	2.53	264.59
250				
300	S. line Walkins			
N line Walkins				
BM	0.65	265.87		265.22
50				
70				
78				
85				
105				
113				
115				
125				
135				
140				
150				
165				

(275.78 / 10.56 / 265.22 NW Hub) Walkins

W		C			
5.3	261.8	3.9	263.2	2.5	264.6
12.7	263.1	10.9	264.9	9.9	265.9
11.2	264.6	10.1	265.7	8.7	267.1
10.6	265.2	9.1	266.7	7.9	267.9
1.3	264.6	+0.4	266.3	2.6	263.6
				15.7	250.2
—		5.4		—	
—		—		18.0	247.9
6.8	259.1	—		—	
—		22.8	243.1	—	
—		—		3.8	262.1
—		—		7.2	258.7
—		26.5	239.4	—	
—		—		3.0	262.9
32.7	233.2	—		9.3	256.6
—		24.3	241.6	2.0	263.9

29th St.

		265.87		
180'	N of Watkins			
190				
200				
T.P.	6.00	270.73	1.14	264.73
250				
300'	S line Horton			
B.M	7.24	273.85	4.12	266.61
Center of Horton				
20' N of Center				
North line of Horton				
10'	N of Horton			
35				
50'	" " "			
70'	" " "			
75'	" " "			
100				
115				

4.12
266.61 B.M SW Hub Horton

W		C		E	
—		9.2	256.7	—	
—		10.2	255.7	—	
7.1	258.8	3.0	262.9	+0.2	266.1
6.9	263.8	5.2	265.5	2.8	267.9
4.1	266.6	2.6	267.1	1.5	269.2
7.1	266.8	7.6	266.3	5.4	268.5
—		—		20.9	253.0
11.0	262.9	31.6	242.3	11.9	262.0
—		—		5.4	268.5
—		25.5	248.4	—	
—		—		3.8	270.1
—		22.6	251.3	—	
43.2	230.7	—		—	
—		—		3.5	270.4
—		8.4	265.5	—	

29th St. 255.73 BM SW Hat
Vassar & Bean

		273.85			
183					
150					
	0.81	272.81	1.56	272.00	
200					
215					
235					
240					
250					
255					
300 S line Vassar					
		246.19			
		Bean St			
S line Vassar					
T.P.	0.10	233.78	12.51	233.68	
50' S of Vassar					
100'					
T.P.	0.17	221.28	12.67	221.11	
100'					
135'					

BM. 269.96 BM SE Hat. Vassar & 29th

14.8	259.1	—			
13.6	260.3	7.4	266.5	2.6	270.2
18.6	254.2	10.9	261.9	4.1	268.7
23.4	249.4	—		—	
31.6	241.2	14.6	258.2	—	
—		19.2	253.6	—	
—		14.0	258.8	7.6	265.2
20.5	252.3	—		—	
11.7	261.1	7.1	265.7	2.9	269.9
8.5	237.7	5.6	280.6	2.0	244.2
3.1	230.7	2.5	231.3	2.0	231.8
13.2	220.6				
		2.0	219.3	4.6	216.7
—		—		19.3	202.0

Beam St. BM. 228.55 SW Hub Beam & Horton

						W		C		E	
		221.28									
150'						16.3	205.0	16.8	204.5	16.4	204.9
165'						—		24.4	196.9	—	
185'						28.0	193.3	—		—	
200'						24.7	196.6	9.9	211.4	0.7	220.6
T.P.	11.89	233.13	0.04	221.24							
250'						22.4	210.7	12.7	220.4	2.0	231.1
300'	N line Horton					15.4	217.7	4.8	228.3	—	
TP	12.71	241.26	4.58	228.55							
300	N line Horton					—		—		3.8	237.4
T.P.	6.15	246.69	0.72	240.54							
Center Horton						23.3	223.4	15.1	231.6	7.4	239.3
S. line Horton						18.1	228.6	12.7	234.0	5.7	241.0
50 S of "						15.2	231.5	11.4	235.3	5.2	241.5
T.P.	0.19	235.89	10.99	235.70							
100						7.4	228.5	4.6	231.3	+0.3	236.2
130						—		—		6.2	229.7

Bean St.

		235.89			
150					
160					
175				7/15/05	
187				✓	
BM	5.11	237.44	3.56	232.33	
200				7/17/05	
250					
B.M	12.22	244.55		232.33	
300 N line Watkins					
T.P.	6.98	249.76	1.77	242.78	
Center of Watkins					
5 line "		"			
50					
100					
T.P.	1.98	244.06	7.68	242.08	
150					

BM 356 / 232.33 — NW Hub Watkins and Bean

W		C		E	
17.1	218.8	12.9	223.0	19.5	216.4
—		—		25.0	210.9
—		28.3	207.6	—	
32.2	203.7	—		—	
29.2	208.2	22.0	215.4	11.5	225.9
12.1	225.3	5.2	232.2	+2.4	239.8
12.2	232.4	5.8	238.8	+1.4	246.0
13.6	236.2	7.7	242.1	1.6	248.2
12.6	237.2	7.2	242.6	1.3	248.5
14.1	235.7	8.0	241.8	2.9	246.9
15.5	234.3	10.6	239.2	5.2	244.6
12.3	231.8	7.4	236.7	1.8	242.3

Beam St. 7/17/05

						W		C		E	
		244.06									
200						17.0	227.1	11.1	233.0	5.3	238.8
235						23.0	321.1	—		—	
250						20.1	224.0	18.5	225.6	8.9	235.2
264						—		—		10.3	233.8
300	N line Williams					10.8	233.3	8.8	235.3	6.5	237.6
30' S of N line of Williams						10.1	234.0	7.1	237.0	4.7	239.4
75' S line Williams —						11.2	232.9	9.0	235.1	6.8	237.3
50' S of "						13.0	231.1	11.5	232.6	10.5	233.6
T.P.	2.01	233.77	12.30	231.76							
100						4.4	229.4	2.9	230.9	3.1	230.7
150						8.1	225.7	7.0	226.8	8.5	225.3
160						—		8.8	225.0	10.4	223.4
175						15.3	218.5	—		—	
180						—		—		23.2	210.6
185						—		18.3	215.5	—	
195						27.8	206.0	—		—	

Bean St.

7/17/05

		233.77		
200				
21.5				
250				
275				
300	N. line Van Ness –			
BM	4.26	235.16	2.87	230.90
Center Van Ness.				
S line "		"		
50. S. of "		"		
100 T.P.	8.46	223.59	12.03	223.13
130				
150				
175				
185				
200				
225				

W		C		E	
26.8	207.0	26.2	207.6	19.2	214.6
—		15.5	218.3	13.2	220.6
11.4	222.4	8.4	225.4	4.8	229.0
5.9	227.9	3.5	230.3	2.3	231.5
2.9	230.9	2.0	231.8	1.3	232.5
NW Cor Hub. Van Ness Ave					
3.6	231.6	2.5	232.7	2.1	233.1
4.9	230.3	3.3	231.9	2.7	232.5
7.5	227.7	6.4	228.8	6.0	229.2
10.3	224.9	10.6	224.6	11.6	223.6
—		—		4.6	219.0
3.5	220.1	7.0	216.6	13.6	210.0
—		—		24.6	199.0
9.4	214.2	—		—	
14.3	209.3	23.6	200.0	25.7	197.9
—		—		25.0	198.6

Bear St. 7/17/05

	223.59			
235				
250				
257				
275				
300 N line Choate				
Center "				
S line "				
T.P. BM. 8.66	226.08	6.17	217.42	
50' S of Choate.				
100				
150				
200				
250				
T.P. 0.69	214.19	12.58	213.50	
290				
300 N line Seaman				
10' S of N line				

214.19
3.95
210.24 NE Seaman

W		C		E	
—		34.0	189.6	—	
36.4	187.2	31.8	191.8	20.2	203.4
38.3	185.3	—		—	
—		—		14.7	208.9
27.1	196.5	18.7	204.9	10.3	213.3
14.0	209.6	7.9	215.7	3.6	220.0
6.2	217.4	2.5	220.1	+0.2	223.4
SW Cor Hub. Choate.					
5.9	220.2	3.7	222.4	1.8	224.3
5.7	220.4	4.1	222.0	2.5	223.6
7.7	218.4	6.0	220.1	4.0	222.1
11.8	214.3	8.8	217.3	6.4	219.7
17.8	208.3	13.2	212.9	9.5	216.6
11.9	202.3	—		—	
15.6	198.6	8.0	206.2	4.0	210.2
—		—		6.5	208.7

Bean St. 7/17/05

214.19

25' S of N line

35' " " "

45 " " "

S line

BM 3.95 210.12 210.24

Check

W		C		E	
24.0	190.2	12.5	201.7	–	
–		–		20.6	193.6
–		23.9	190.3	–	
6.6	207.6	12.0	202.2	9.8	204.39

NE Cor Hub. Seaman & Bean

Park St

B.M.				
B.M.	N.E. Hub Seaman + 29			226.45
	2.42	228.87		
	5.41	222.62	12.02	216.85
S		222.26		
S Line of	Seaman			
℄ "	"	"		
N "	"			
50'	N of N. Line of Seaman			
100'				
T.P.	4.68	214.47	12.47	209.79
150'				~~209.79~~
~~200'~~	0.10	201.81	12.76	201.71
200'				
~~250'~~	2.18	191.04	12.95	188.86
250'				
300'	S Line of Choate			
℄	"	"	"	

W.	C.	E.
Plug 100' S of Property		S Line of Park St.
4.3	6.1	8.9
4.3	6.3	10
4.8	6.9	11.3
6.1	8.2	14.5
8.1	13.0	6.7
		(191.04)
5.2	11.1	1.6
		(191.04)
10.9	13.8	1.6
18.0	18.0	10.8
21.6	19.0	14.9
(201.71)	3.7	14.0
8.2		

Park St.

	19.04	0.91		19.13
N Line				
	11.77	20.90		
N Line of Chorate		11.38	N.E. Cor. Chorate & 28th B.M. Plug	19.52
T.P.	12.50	213.98	0.42	20.48
			0.35	
T.P.	11.44	225.07	0.35	213.63
50' N of N. Line of Chorate				
100'				
150				
200				
250				
North Line of Van Ness				
℄ Line of Van Ness				
N Line of Van Ness				
50' North of N Line of Van Ness				
T.P.	2.05	214.43	12.69	212.38
				212.38

W.	Cr.	E.
(213.98)	(213.98)	
12.5	11.6	1.4
0.4	10.5	11.3
5.7	5.8	6.7
3.5	5.1	4.8
3.0	5.3	7.3
3.2	6.6	13.2
3.8	10.3	21
4.5	11.5	18
		(214.43)
5.2	13.0	15.4
		(214.43)
12.4	15.6	3.8

214.43

Park St.

	H.I.		
B.M.	214.43	10.78	203.65
	233.10		
100'			
150'			
200'			
250'			
S Line of	North Williams St.		
℄	(B.M. S.E. Cor of Pub. Mon.		
N. Line			230.35
50			
100			
150			
	222.41		
200			
250			
S Line of	Watkins		

W.		Cr.	E.
Rock 50' South			
N.E. Cor of Vanduse & Park			
(227.15)			
7.3		11.3	7.3
10.4		9.0	8.6
8.8		7.9	7.0
7.6		7.0	5.8
5.1		5.0	4.8
3.4		3.3	4.2
2.8		2.7	3.9
2.4		3.4	4.7
4.2		5.5	7.6
6.0		9.6	13.0
-0.6		3.5	9.7
4.9		10.3	19.7
			(210.37)
14.0	14.0	19.0	20.6

	210.37			
℄ Watkins				
N. line of Watkins				
50' N	210.03			
100'				
150				
~~200~~				
	211.72			
200				
250				
	220.28			
300				
S line of Horton				
B.M. 250' N. of Watkins				208.03
7.97	216.00			
℄				
T.P. 0.47	204.80	11.67		204.33
N line Horton				
1.11	193.12	12.79		192.01

W	Cr	E
21.3	10.8	23.5
14.0	20.2 / 210.03 / 12.0	14.2 / 210.03 / 16.6
22.0		
26.4	18.0	17.4
14.0	8.7	-1.2
7.7	0.9 (220.28)	5.8 (227.73)
3.8 (227.73)	2.2	3.1
9.1	7.6	16.3
near mound of rock.		
~~18.2~~	~~11.2~~	
~~11~~ 18.2	11.2	9.1
16.4	13.0	9.0

		193.12			W.	Cr.	E.	
50'					15.9	14.3	12.4	
T.P.	0.56	192.38	11.30	181.82				
70'					15.6	7.7	9.0	
100'					4.5	11.4	4.0	
125'					1.0	7.7	—	
	9.96	191.80		181.82				
150'					8.7	3.5	1.0	
200							(202.92)	
250					6.2	0.5	4.4	
						(202.92)	(202.92)	
					5.6	9.2	1.6	
	12.29	202.92	1.17	190.63				
	S Line of Vassar			199.28	15.4	9.9	3.64	B.M. on hub
	12.09	211.37	0.15	211.22				
	10.74	221.96	0.48	221.48				
	11.64	233.12	0.75	232.37				
	11.66	244.03	7.01	237.02				
				255.73				

		H.I.			
	Seaman				
	12.05	249.53	~~12.05~~		237.48
100'	E of	East	Line of 30th		
50'	E of	30th	" " "		
		"	" " "		
	℄		" " "		
	W Line	of	30th		
50'	W of	W Line	of 30th		
100'					
150'					
	6.04	243.52			237.48
	East Line	of	Dale		
	℄ Line	of	Dale		
	W "	"	"		
50'	W of	W Line	of Dale		
100	" "	"	"		
T.P.	1.0	232.34	12.18		231.34

N		Cr		S
B.M.	S.W.	Cor	Seaman & 30th.	
4.9		7.9		12.7
4.5		7.6		12.5
5.3		8.8		13.3
5.9		8.7		12.4
6.1		8.7		12.0
7.5		10.2		13.3
8.8		12.0		15.0
8.9		12.1		15.2
3.3		4.8		7.1
4.4		5.6		7.6
6.0		7.7		9.1
7.6		9.0		10.3
11.0.		12.0		13.2

29th + Seaman		NE Cor.		Hub			221.12 -	10.79	210.33	Hub N.E. Cor.	
	Seaman	5.89									
		232.34		226.45		η	Cr		S		
150	W					3.2	4.7		6.2		
	E Line of 29th St					6.0	8.1		9.0		
29											
¢	29th St					8.9	10.3		11.3		
	W Line 29th St					10.8	11.9		12.7 (221.12)		
50'	W					12.5	11.5		3.7		
T.P.	1.68	221.12	12.90	219.44							
100'	W					7.2	2.4		5.2		
125							6.0		5.7		
120						12.3					
130						17.1 (208.8)					14.9
140	W of W Line of 29					12.0					
150						17.6	11.9		7.9		
175							7.4		10.5		
160						14.5	(208.8)				
180						12.5	~~7.4~~ (208.8)				
E Line of	Beam					10.9	13.5		14.9		

Seaman

					N	Cr	S
T.P.		221.12	12.85	208.27			
	0.53	208.80					
7' W of E line of Bea							4.7
17' " " " " "							8.6
13						15.6	
25'						13.2	13.4
31'							11.1
Cr. of Bea					1.6	14.1	7.6
10' W of Cr.						19.0	
65' W of E line of Bea						14.7 (60)	4.5
13' E of W line					6.1		
W property					10.3	11.5	1.4
13' W of W Prop.					14.5	(202.39)	(215.09)
T.P. 25'						1.9	3.2
T.P.	6.39	202.39	12.80	196.00			
30' W of Bea					15.4		
50					12.5	8.6	3.9
75'					9.5	8.5	5.5
100					7.8	11.5	8.2
110					7.8	14.7	11.4
120					10.5	21	15.9
125					13.8		
130					11.8	17.0	
150					8.5	10.2	

215.09 215.09 (215.09)

Seaman

		202.39			
T.P.	12.70	215.09	1.67	200.72	
IP					
	6.58	219.65	2.82	213.07	
			~~5.73~~	216.83	Plug 100' 5 sk Portland

Choate

	0.56	261.16	260.60
100'			
50'			
E Line of 30th			
¢ " " "			
W Line of 30th			
50'			
100			
150			
	0.60	250.05 11.71	249.45
E Line of Dale			
¢ " " "			
W " " "			
50			
100			
	2.04	239.39 12.70	237.35

N	¢	S
0.8	2.3	3.8
0.7	2.1	3.5
1.3	2.7	4.0
2.5	3.6	5.0
3.4	5.1	5.9
4.9	6.8	8.1
7.5	8.9	10.1
10.4	11.5	12.5
2.0	3.1	4.1
4.0	5.2	5.7
6.7	6.8	8.0
8.9	9.5	9.9
10.6	11.7	12.0

Choate

239.39

150
175
2' E Line of 29th
℄ " " "
53' E of E Line
15' E of W Line
5'
W Line of 29th St.
50' W
65'
75'
100'
150

0.02	226.60	12.81	226.58

E Line of Bean
℄ " " "

W Line of Bean

T.P. 0.62	214.34	12.88	B.M. 213.72

N	℄	S
3.0	3.0	3.4
5.1	3.9	5.0
11.3	5.2	5.7
13.0	7.7	7.9
15.0	8.5	8.5
~~22.6~~		
21.3	9.4	9.5
22.6	9.7	9.7
21.1	12.1	11.0
17.3	12.2	11.1
14.4	11.9	11.0
14.0	11.9	10.6
18.0	15.0	12.7
13.3	6.8	3.3
23.1	10.5	5.5
	(214.34) 4.6	9.1

Choate

21434

50' W

N Cr. S

11.1 2.2

8/28/05 McLeran, Lambert, T. J. Butler

		HI		
B.M.	7.39			210.12
T.P	7.53	217.51	3.76	213.75
S Line of	Seaman	221.28		
Centre	"	"		
N. Line	"	"		
50		"		
T.P @		"	6.06	215.22

8/29/05 McLeran, Lambert, Butler

T.P.	0.69			215.22
100		215.91		
1.30		"		
1.50		"		
1.78		"		
T.P.	1.10	"	12.50	203.41
87		204.51		
100		"		

Park St

BM NE cor Park Seaman & Bean 210.12

W		C		E	
		in NE Park Seaman & Bean			
3.9	217.4	5.2	216.1	8.2	213.1
3.4	217.9	5.1	216.2	9.0	212.3
3.8	217.5	5.7	215.6	10.2	211.1
4.9	216.4	6.5	214.8	13.5	207.8
1.5	214.4	5.2	210.7	—	
3.0	212.9	—		—	
—		9.5	206.4	—	
11.1	204.8	—		—	
—		—		2.2	202.3
—		—		4.9	199.6

		204.51		
1.25		"		
150		"		
160		"		
B.M. Hob N side of Choate			1.40	203.11
T.P.	0.28		12.25	192.26
200		192.54		
T.P.	6.86	"	0.28	192.26
200		199.12		
T.P.	1.46	"	12.18	186.94
200		188.40		
250		"		
225		"		
262		"		
300	S Line Choate			
+8		"		
T.P.	1.77	"	11.69	176.71
		178.48		

Park St

W		C		E	
—		—		9.5	195.0
—		—		13.0	191.5
—		(3) 1.5	203.0	—	
1.40	203.1				
—		3.7	188.8	~~12.2~~	~~180.8~~
3.6	195.5	—		—	
—		—		8.50	179.9
13.3	175.1	13.00	175.4	10.0	178.4
—		—		13.00	175.4
—		—		7.9	180.5
—		—		11.2	177.2
—		—		12.2	176.2

Park St

		HI			W		C		E	
300 S Line of Choate		178.48			10.6	167.9	5.9	172.6	—	
+25		"			—		4.0	174.5	—	
+20		"			—		—		4.4	174.1
Cr.		"			—		—		1.6	176.9
T.P.	12.34	"	0.14	178.34						
TP	12.17	190.68	0.37	190.31						
N Line of Choate		202.48	12.70	189.78	—		2.0	200.5	12.7	189.78
+40 N of S. line of Choate					9.4	193.1	—		—	
25		"			—		—		—	
T.P.	12.46	"	2.25	200.23						
50 N of Choate		212.69			—		—		10.0	202.7
N. of Choate Tp	12.37			200.23 (203.11 Check)						
Hub N line of Choate		212.60	9.50	203.10	9.5	203.1	BM		—	
T.P.	11.77		2.07	210.53						
50		222.30			7.9	214.4	—		—	
70		"			4.1	218.2	—		—	
100		"			3.2	219.1	—		—	

Park St

			222.30					
T.P. 150	4.11			0.38	221.92			
200		226.03						
250		"						
300	S. Van Ness	"						
C2		"						
B.M.	r Van Ness	"		6.29	219.74			
B.M.	10.42				210.53			
50		220.95						
100		"						
T.P. 150	6.71	"		0.89	220.06			
200		226.77						
250		"						
300		"						
Van Ness Centre	4.73	"		7.65	219.12			
		223.85						

W		C		E	
0.4	221.9				
4.6	221.4	—		—	
4.1	221.9				
4.2	221.8	—		—	
5.6	220.4				
6.3	219.7	B.M. = 219.74			

N.W. Cor Hub of Chord.

—	9.9	211.0
—	3.8	217.1
—	0.9	220.1
—	7.1	219.7
	7.9	218.9
	10.7	216.1
	9.3	214.5
	12.06	211.79

Park St

92
56
36

T.P. 200.23
199.66
000.57

N line of Van Ness	223.85	4.00	219.85			
			219.74			
	11.1		210.53			
	5.84	221.70	0.44	221.36		
				217.95		
BM		226.60	6.54	220.06		
				219.74		
			6.74	219.86		
N ℄ Chute Hub	12.22			189.78		
		202.00	2.34	199.66		
T.P.	10.90			200.23		
50		211.13				
75		"				
100		"				
125		"				
T.P. 150	6.42	"	1.99	209.14		
175		215.56				

W	C	E	
4.0	219.8		

198.61 W Line Van Ness E Van Ness
219.85 " " " W NW Cor. of Bean
Z 30.90

Park St.

					W.	C	E	
200		215.56			—	—	8.4	207.1
T.P. 225	2.94		11.18	204.38	—	—	11.1	204.4
250		207.32			—	—	6.1	201.2
275		"			—	—	11.4	195.9
S. line of Van Ness					—	—	12.3	195.0
Cr					—	—	10.6	196.6
N " " " "			8.71	198.61	—	—	8.7	198.6
T.P.	12.76		0.55	206.77				
T.P.	11.62	219.53	0.64	218.89				
		230.51						

8/30/05 McLeran
Butler
Lambert
H.T.

BM	0.64			230.90 (218.09 ok)
	12.66	231.54	12.59	218.95
		131.61		

N W cor Stub Van Ness & Bean

NW cor Williams
B.M. = 230.15

N. Line of Van Ness				
T.P.	12.66			206.77
50'		219.43		
75		"		
	9.06	"	0.53	218.90
100		227.96		
50 N of N line Van Ness		"	15.3	
60 " " " "			18.4	
B.M.		"	8.21	219.75
150		"		
200 T.P.	8.00	"	1.92	226.04
250		234.04		
B.M. on head of Williams				
S. line of Williams		"	5.90	228.14 B.M.
C.L.		"		
N line Williams		"	3.89	230.15
NW Cor.				
50		"		
100 T.P.	2.75	"	8.70	225.34
150		228.09		

Park St

W		C		E	
—		—		8.7	210.7
—		—		3.8	216.1
8.0	220.0	6.6	221.3	8.1	219.8
15.3	213.7	—		—	
18.4	209.6	—		—	
5.4	222.5	4.0	223.9	3.6	224.4
3.9	224.0	2.7	225.3	1.92	226.04
8.7	225.3	8.1	225.9	6.9	227.1
6.1	227.9	6.1	227.9	5.9	228.1
4.5	229.5	4.4	229.6	5.3	228.7
3.9	230.1	3.8	230.2	5.0	229.04 (229.04)
3.5	230.5	5.0	229.0	5.8	228.2
5.3	228.7	6.8	227.2	8.7	225.34
1.1	227.0	3.7	224.4	8.0	220.1

Park St

NW Hub Watkins & Bean 232.33
BM 216.35

N of Williams

					W		C		E	
200		228.09			4.9	223.2	9.1	219.0	—	
BM			12.33	215.76						
BM in Sagamont St hill	0.95		11.74	216.35						
200		217.30			—		—		3.7	213.6
250		"			—		4.9	212.4	—	
275		"	4.20	213.10	4.2	213.1	—		—	
300	S line Watkins Hub S.W. 2.69		11.91	205.39						
300		208.08			2.7	205.4	9.4	198.7	—	Correction −.55
250		"			—		—		6.7	~~201.38~~ 200.83
275		"			—		—		11.1	~~197.0~~ 196.5
T.P.	3.72	"	12.33	195.75						
Hub SE cor Watkins		199.47							10.2	~~189.2~~ 188.7
Cr		"			0.4	~~199.1~~ ~~198.6~~ −.55	—			
N line Watkins		"			12.6	~~186.9~~ 186.4	—		—	
Cr		"					10.5	~~189.0~~ 188.5 −.55	~~8.3~~	191.7
N line Hub Watkins		Hub	2.40	197.07	—		—		2.4	~~197.1~~ 196.6

Park St — N of Watkins —

					W	C	E	Correction -.55
r from N line Watkins		199.47						
34		"			—	—	0.0	~~199.5~~ 199.0
50		"			—	—	5.2	~~194.3~~ 193.8
60		"			—	—	9.3	~~190.2~~ 189.7
75		"					12.2	~~187.2~~ 186.7
T.P.	9.02		10.58	188.89 (1) End				
100		197.91			—	—	12.4	~~185.5~~ 185.0
15		"			—	—	13.0	~~184.9~~ 184.4
25		"		Correction -.55	—	—	9.7	~~188.2~~ 187.7
T.P.	12.52	"	1.73	196.18				
50		208.70			—	—	7.6	~~201.1~~ 200.6
T.P.	12.26	"	1.30	207.40				
75 T.P.	9.82	219.66	1.74	~~217.92~~ 217.37	— Summit of hill		3.5	~~217.92~~ 217.37
200		227.74			—	—	5.4	~~222.3~~ 221.8
225		"			—	—	2.7	~~225.0~~ 224.5
250		"			—	—	2.7	~~225.0~~ 224.5
275		"					5.3	~~222.4~~ 221.9

N of Watkins

300		227.74	8.82	218.9	
B.M.		"	7.83	~~219.91~~ 219.36	
T.P.	4.93			188.89	
		193.82	6.72	187.10	
r Line of Watkins North					
75		"			
100		"			
150		"			
		"			
T.P. (high)		"	1.33	192.49 (1)	
T.P. (low)	7.90	"	12.77	181.05	
100		188.95			
T.P. (high)	12.90			192.49 (1)	
200	12.88	205.39	1.22	204.17	
250		217.05			
300	5 line of Horton				

Park St. N of r Line of Watkins

N	C		E	
			8.8	~~218.9~~ 214.5

B.M. Top of Guard Stake at S.E. cor of Horton

Turning point between 60 + 75 E line

7.0	~~186.8~~ 186.3	—		—
~~7.8~~	~~186.0~~ 185.5	—		—
		3.9	~~189.9~~ 189.4	—
7.4	~~186.4~~ 185.9	2.6	~~191.2~~ 190.7	
11.3	~~177.6~~ 177.1	8.0	~~180.9~~ 180.4	—
7.5	~~203.9~~ 203.4	—		—
8.5	~~208.5~~ 208.0	—		—
13.00	~~204.0~~ 203.5	7.0	~~209.7~~ 209.2	—

N of Watkins

T.P.	9.98	217.05	0.60	216.45
250		226.43		
200		"		-55 (217.02 d)
T.P. at 75		"	8.58	~~217.85~~ 217.37

8/31/05 McLeran
Lambert
Butler

	8.27			~~215.76~~ 216.65
		224.03 224.62	~~7.38~~ 7.38	~~216.65~~ ~~217.85~~ 217.24 61

B.M.	11.02			219.91
		230.93	1.85	229.08 55 .63

Van Ness

	11.69		11.	218.45
		230.64	4.57	226.07
	4.23	233.33	1.54	229.70

Park St

W	C	E
—	7.5	~~218.9~~ -55 218.4 —
—	10.1	~~216.3~~ 215.8 —

Grand Stake S.E. cor Park & Norton

								217.24 217.86	
					W		C		E
		233.38	7.90	225.43					
Jp-	2.04		10.03	223.30					
(275) W		225.34	12.74	213.10 212.60					
Jp	3.07		12.62	212.72					
~~250~~ Jp pm	2.04	215.79	11.61	204.18					
250		206.22	5.4	200.82					5.4
275		"	9.7	196.75					9.7
Jp	6.79	"	10.96	195.26 .59					
300 B Cir Cr Mathews		202.05	13.20	188.8					
			12.00	190.0					
N.E. cor Mathews Hub			5.50	197.07 196.55 .52					
25			2.8						2.8
50			8.2						
100			12.3						
150 Jp	12.77		0.63	201.42					
275	12.07	213.80 225.69	1.24	212.62					

Park St

228.55

225.59 10.10

2.92 217.37

Tp. 8.22

20.0 3.80

225.7 1.01

Tp 8.12 0.9 224.68

232.78 4.27 228.61

232.80 228.53

N of Horton

B.M.	4.27			228.55
T.P.	2.13	232.82	12.79	220.03
B.M		222.16	2.79	219.37
S line of Horton		"	3.78	
T.P.	2.34	"	12.16	210.00
S line of Horton		212.34		
Cr				
T.P.	1.34		12.16	202.18
N line of Horton		201.52		

B.M. Top of Guard Stake S.E Cor Hor and Park 219.37

W	C	E

SW cor Bean & Horton

Top of Guard Stake SE Cor of Horton & Park

S.E. Cor. Horton Park

	13.0	209.2	3.7	218.5
9.4	202.9			
	10.8	200.5	5.7	206.6
			5.7	195.8

— from Horton N →

N Line of Horton		201.52		
Cr Horton		"		
	4.02	"	12.87	188.65
N of N Line Horton		192.67		
50		"	—	
	0.48	"	12.07	180.60
50		181.08	0.1	
65		"	10.8	
75		"	10.6 gully	
100		"		
Tp.	11.62		1.71	179.37
125		190.99	—	—
150		"		—
Tp	9.09	"	0.58	190.41
150		199.50		
200		"		
250		"		

Park St bet Horton & Vassar

42

W		C		E	
—		9.5	192.0	—	
4.55	197.0	—		—	
5.1	187.6	—		—	
—		13.5	179.2	—	
3.19	177.9	—		0.1	180.9
13.1 gully	168.0	—		—	
—		10.6	170.5	—	
2.0	179.1	2.8	178.3	1.6	179.5
9.2	180.8	6.7	184.3	2.4	188.6
7.6	183.4	2.5	188.5	—	
—		—		7.6	191.9
—		7.6	191.9	1.8	197.7
1.27	186.8	6.3	192.2	0.0	199.5

from Spikes N →

		199.50		
	3.23		0.35	199.15
Hub		202.38	3.21	199.17
S. line of Vassar		"		
T.P.	6.03	"	12.10	190.28
S line of Vassar		196.31		
200		"		

B.M. SE Cor. Vassar + Park 199.17

N		C		E	
	SE. Cor Vassar Park B.M.				
				Check	(199.17)
—		9.9	192.5	3.2	199.18
9.2	187.1	—		—	
10.81	(185.5)	—		—	

McLeran
B. Haslem
9/2/05 H A Thomas

NE Cor Seaman Bean 210.24 Hub BM

Seaman St

B.M.	3.01			237.48	
E of 30th St		240.49	3.75	236.8	
+100			3.46	237.0	
50					
E line of 30th			4.61	235.8	
Cr " " "			3.40	237.1	
W " " "			3.30	237.2	
50			4.28	236.1	
100			6.00	234.5	
150			6.20	234.3	
T.P. 200	1.06		4.09	236.40	Hub
Cr		237.46	1.50	235.9	
W		"	2.92	234.56	
50		"	4.20	233.2	
100		"	7.20	230.2	
150		"	11.30	226.2	
T.P.	2.39	"	12.09	225.37	
E line 29th		227.76	4.43	223.33	
Cr " " "			6.7	221.1	
W " " "			8.19	219.57	Hub
50			10.50	217.3	
T.P. 100	1.56		11.95	215.81	
150		216.37	4.10	~~212.27~~ +8	
T.P.		"	5.38	210.99 +8	
N.E. Cor.		NE Cor Hub Seaman & Bean	6.97	209.40	(210.24)
T.P. N of E line	2.31		10.84	205.53 +8	
N of E line Bean		207.84	5.80	201.2	
"		8			
W 24 " "		207.04	13.40	193.6	
Cr			8.00	199.0	
W line of Bean			1.25	206.7	

W from 30th St

South Line

S.E Cor 30th spike in F.P.

30th

E Line of Dale
Cr " " "
W " " "

29th

213.1
211 .8
210.24 B.M.
205.61

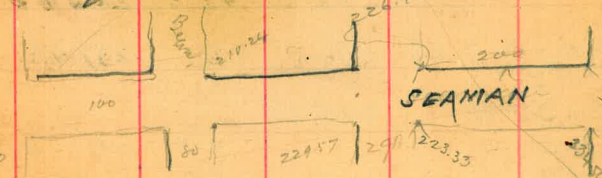
Bean

bottom of Gulch

Seaman St

W. Line of Bean		207.04	1.18	205.86
T.P.	5.92			
		213.88	1.65	211.73
50	Ew	"	4.1	209.3
100		"	8.3	205.1
123		"	16.0	197.4
150		"	3.6	209.8
T.P.	9.64		1.27	212.11
E line of Park		221.75	8.5	213.2
W line of Park			4.1	217.4
W " " " centre			4.0	217.7
W " " " N			4.45	217.3
centre line of Park S.			5.9	215.9

S Line from 30th St West.



123 bot gulch

Seaman St

Centre Line W from 30th St

SPK in SE cor 30th	7.60		237.48	
E line 30th St		245.08		
100		3.7	241.4	
50		3.0	242.1	
E line 30th		4.1	241.0	
Cr		4.1	241.0	
W " "		4.2	240.9	
50		5.4	239.7	
100		7.5	237.6	
Hub Dale SE in s line		8.7	236.38 (236.40)	
150		7.7	237.4	
Dale E line	1.66	6.33	238.75	
Dale W on s line		240.41	5.81	234.60 (234.56)
Cr			2.60	237.8
W line Dale			4.60	235.8
50			5.80	234.6
100			9.50	230.9
TD 150	0.18		12.87	227.54
150		227.72	0.30	227.4
E line 29th St			3.60	224.1
Cr			4.41	223.31 (223.33) E cor
W line "			5.50	222.2
W 50	3.79		7.20	220.5
100		224.53	6.98	220.74

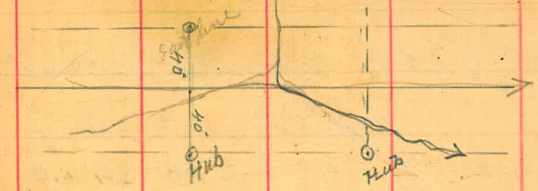
Dale S W

29th S line

Sermon St

		224.53			
T.P	4.01	"	12.68	211.85	
150		215.86	5.80	210.1	
(Hub) on NE cor.		of Bean	5.54	210.32	
T.P.	2.95		12.08	203.78	
E line of Bean		206.73	11.40	195.3	
Cr		"	15.60	191.1	
N Line of Bean		"	10.90	195.8	
T.P.	5.38	"	1.95	204.78	
50		210.16	6.40	203.8	
75		"	4.90	205.3	
100		"	8.30	201.9	
150			8.72	201.34	B.M.
T.P.	6.28		10.95	199.21	
125		205.49	13.20	192.3	small gulch
150	12.47	"		201.34	
T.P.	4.90	213.81	6.24	213.57	
(B.M) old		218.47	6.26	212.21	
E line N Park			6.10	212.4	

Centre Line N from 30th St.



Seaman St
N. Line

B.M	9.38			237.48
E of E line				
100'		246.86 ✓	2.45	244.4
50'			2.80	244.9
E line of 30th			2.70	244.1
Cr " "			3.30	243.6
W " " "			3.50	243.4
W 50'			5.00	241.9
100'			6.20	240.7
150'			6.30	240.6
E of Dale			6.70	240.2
B.M.	4.83		7.70	239.16
B.M		243.99	6.58	237.49
150			3.34	240.5
E line of Dale			3.80	240.2
S.E. Dale + Seaman Cr.			7.64	236.46 236.35
			4.90	239.1
N. line Dale Hub. N.			6.45	237.5
50'			8.1	235.9
T.B.O	0.72		10.21	233.78
100		234.50	1.50	233.0
150			5.3	229.2
E line of 29th			8.03	226.47 226.45 Check

Dale

226.45

West from 30th St.

S.W. cor 30th St Spk in F.P.

5/9/05 McLeran Bell.
Whetmore
Thomas

NE Hub of 29th St 226.47

Seaman St
r Line

					N		C		S
29th 8X									
T.P	1.24	234.50	10.35	224.15					
Cr		225.39	1.80	223.6					
Nline 29			3.80	221.6					
+ 50			5.6	219.8					
Elm 29 Cr									
100	C						0.9	224.5	
N. line							2.8	222.6	
+ 50							4.9	220.5	
100							4.7	220.7	
							7.0	218.4	
T.P.	0.56		10.13	215.26					
100		215.82	1.8	214.0					
125			7.2	208.6					
150									
Elm Bean									
T.P	3.84		10.40	205.42					
135		209.26	6.0	203.3					
146			9.8	199.5		140 bat quick			
150			5.6	203.7					

Seaman St
N Line

175		209.26	1.4	207.9	
T.P.	4.71		1.50	207.76	check
E line of Bean		212.47	2.12	210.35	(210.24)
E line of Bean	2.12			210.24	
Cr		212.36	5.4	207.0	
J.P.	7.07		10.04	202.32	
		209.39			
T.P.	2.47			202.32	
N line of Seaman		204.79	6.4	198.4	
12			9.7	195.1	
T.P.	0.42		10.15	194.64	
36		195.06	9.1	186.0	bot of gulch
50			3.9	191.2	
T.P. 85 100	2.17		0.39	194.67	
115		196.84	3.7	193.1	X
145 145			8.3	188.5	gulch
T.P. 135 150	9.96		1.41	195.43	
		205.39			

6/9/05 McLean
Watmore
Thomas

Seaman St

T.P. 60	9 v 83	205.39	4.39	201.00
185	6 v 3 4	210.83	2.57	208.26
T.P.		214.60	3.42	211.18

211.11 check

Elm of Park St N side

6/9/05 Choate St

W. from

McLeran

McLemore

Thomas

B.M.	1.51			260.60
E line 30th surface		262.11		
~~E 50'~~ E 50				
E 100				
Cr 30th				
W line 30th				
W 50				
Tp. 100	1.07		8.47	253.64
" 100		254.71		
" 150		"		
E line of Dale St				
+40 Cr.				
	0.92		9.41	245.30
W " " "		246.22		
N of Dale " +50				
" 100				

30th St.

N		C		S	
	N.E. Cor. 30th & Choate				FP Spk.
2.2	259.9	3.6	258.5	5.1	257.0
1.7	260.4	3.1	259.0	4.7	257.4
1.8	260.3	3.2	258.9	4.8	257.3
3.5	258.6	4.4	257.7	5.8	256.3
4.27 Hub	257.8	5.9	256.2	6.9	256.2
5.9	256.2	7.5	254.6	9.4	252.7
8.4	253.7				
—		3.2	252.5	3.6	251.1
3.9	251.8	5.0	249.7	6.1	248.6
6.7	248.0	7.6	247.1	8.6	246.1
8.6	246.1	9.8	244.9	10.6	244.1
—		—		—	
2.8	243.4	3.0	243.2	4.1	242.1
5.0	241.2	5.5	240.7	6.1	240.1
6.7	239.5	7.8	238.4	8.1	236.1

Choate St

of Sale N 150		246.22				N		C		S	
T.P.	1.32	"	10.22	236.00		9.8	236.4	9.8	236.4	10.5	235.7
N 175		237.32				8.3					
E line of 29		"				3.35	233.97	2.9	434.4	3.6	233.7
Cro						10.9	226.4	6.2	231.1	5.8	231.5
N line 29th		"				—		7.7	229.6	7.6	229.7
N 50'						—		10.2	227.1	8.9	228.4
T.P.	2.89	"	9.80	227.52		—	—	—		—	
N 100		230.41				5.0	225.4	2.9	227.5	4.9	228.7
N 150						8.7	221.7	5.6	224.8	8.7	226.7
E line of Beam			~~10.15~~	~~222.26~~		—		10.9	219.5	6.8	223.6 Adj 5a 230.52
T.P. N 80'			10.15	220.26		5.7	224.7	—		—	
N 70						8.2	222.2	—		—	
N 60						12.0	218.4	—		—	
N 50						11.0	219.1	—		—	
N line of 29th						11.2	219.2	—		—	

Choate St.

		HI				N		C		S	check
E line of Bean						—		—		9.3	221.01
N 40 ft		230.40				—		—		13.0	217.4
N " "	"										
T.P	2.64			220.26		—		—		—	
E line Bean		222.90				9.4	213.5	—		—	
N of N line of Bean W. 50		"				—		—		11.5	211.4
E line of Bean N 40		"				—		8.1	214.8	—	
N line of Bean		"						12.8	210.1		
T.P.	2.54		10.07	212.83		—		—		—	
N line of Bean N 50		215.37				—		14.6	200.8		
N 100						—		—		12.5	202.9
TP	2.7		10.35	205.02							
		207.09	—								
E line Bean N 40		"				1.7	205.4	—		—	
N line Bean W 50						10.3	196.8	—		—	
N 100						15.6	191.5	—		—	
						—		14.3	192.8	—	
T.P.	0.94		10.24	196.85							
		197.79									

		197.79	—	
Bean N 100		"		
E line of Park N 150				
T.P.	2.77	"	10.30	187.49
E line of Park		190.26		
"	"			
N 150				
N 140				
— Correction — Park St				
N.W. Cor. Choate & Park	2.25			203.10
	1.25	205.35	9.85	195.50
N line Choate 60 S of		196.75	3.60	193.15
T.P.	0.75	"	9.90	186.85
B.M.		187.60	10.19	177.41
B.M.	2.77			177.41
S line of Choate		180.08	11.9	168.2

Choate St

N		C		S	
13.5	184.3				
7.0.8	190.71				
—		—		8.2	189.6
—		—		12.9	check (177.2) 177.36
—		13.4	(176.9 ch) 176.86	—	
10.4	179.9	13.2	176.7	—	
13.2	177.1				

W		C		E	
193.15		—		—	
168.2	In channel				

		HI			N	C		E	
N of S line		180.08			9.8				
S line of Chute		"			—	7.5		—	
S line " "									
S 25' " "					—	8.6	Channel	—	
" S 75' " "								4.9	
" S 62 " "					—	—		6.9	173.2 on channel
" S 50 " "								1.7	178.4
S line of Chute								3.06	
" " " N 20								6.1	173.9 channel
S line of Chute N 40								3.3	176.8
Correction Park St					**N W cor Van Ness.**				
B.M	3.57			219.85					
N line Van Ness N 50		223.42			—	14.1		—	
" " "									
T.P	2.85	"	8.18	215.37					
" " " N 35'		218.22	15.0		—	15.0	203.2	—	
N line of Van Ness			6.2			6.2	212.0		
S line Van Ness	7.7			195.0	**S.E. cor Van Ness & Park**				
N 14		202.70			—	—	channel	8.3	194.7

Park St

		HI	Correction	
B.M.	1.9			205.40
S line of Watkins N 20'		207.30		
N 40'				—
NW cor Watkins	4.00			186.4
N line of Watkins		190.4	10.4	180.0
SE cor Watkins	3.50			188.70
N 14'		192.27	8.67	183.6
W of NW cor Watkins 100'				177.1
	12.1	189.1	7.3	181.8

N		6		E
	S. W cor Watkins			
7.3	200.00	—		—
13.	194.30			
—		10.4	180.0 Channel	
—		—		8.7 Channel 183.6
—		7.3 Channel	181.8	—

POSTED

Levels for Cross section of 32nd St (60') Mst to Woolman

Cloudy Tuesday Bell

BM	3.08	91.76		88.68
	0.36	79.78	12.34	79.42
	S line of Jn St			
WL			5.1	74.78
bb			5.2	74.58
1/4			5.2	74.58
b			5.4	74.38
1/4			5.5	74.28
bb			5.6	74.18
EL			5.7	74.08
	50' S of Jn St			
EL			6.6	73.18
bb			7.0	72.78
1/4			6.8	72.98
b			6.6	73.18
1/4			6.3	73.48
bb			6.1	73.68
WL			5.9	73.88

		79.78	32nd	
	100' S of Jn St			
WL			7.1	72.68
bb			7.4	72.38
1/4			7.5	72.28
b			7.5	72.28
1/4			7.6	72.18
bb			7.6	72.18
EL			7.6	72.18
	150' S of Jn St			
EL			9.0	70.78
bb			9.0	70.78
1/4			8.7	71.08
b			8.5	71.28
1/4			8.2	71.58
bb			7.7	72.08
WL			7.4	72.38

79.78

200' S of Mst

WL	8.7	71.08
bb	8.7	71.08
1/4	9.0	70.78
b	9.2	70.58
1/4	9.1	70.68
bb	9.1	70.68
EL	8.8	70.98

250' S of Mst

EL	7.3	72.48
bb	7.0	72.78
1/4	6.9	72.88
b	6.2	73.58
1/4	6.0	73.78
bb	6.0	73.78
WL	5.7	74.08

79.78 32a

270' S of M St

WL	5.5	74.28
bb	5.5	74.28
1/4	5.7	74.08
b	5.7	74.08
1/4	6.6	73.18
bb	7.4	72.38
EL	7.2	72.58

275' S of M

EL	11.7	68.08
bb	10.0	69.78
1/4	6.7	73.08
b	5.8	73.98
1/4	6.2	73.58
bb	5.5	74.28
WL	5.9	73.88

79.78

300' S of M & N L of N St

WL	7.6	72.18
bb	6.2	73.58
1/4	8.3	71.48
b	11.0	68.78
1/4	10.2	69.58
bb	9.9	69.88 on RR tie
EL	11.0	68.78

8' S of N Line of N St

EL	6.9	72.88
bb	7.1	72.68
1/4	10.8	68.98
b	9.9	69.88
1/4	10.0	69.78 on tie
bb	10.0	69.78
WL	9.6	70.18

79.78 32nd

N lev of N St (80)'

WL	9.7	70.08
bb	9.4	70.38
1/4	10.0	69.78
b	10.7	69.08
1/4	8.0	71.78
bb	6.4	73.38
EL	6.3	73.48

N 1/4 of N St

EL	3.7	76.08
bb	3.4	76.38
1/4	5.8	73.98
b	5.3	74.48
1/4	9.1	70.68
bb	10.2	69.58
WL	9.0	70.78

79.78

Center of N St

WL	5.6	74.18
bb	8.1	71.68
1/4	5.2	74.58
b	4.0	75.78
1/4	3.2	76.58
bb	3.2	76.58
EL	3.4	76.38

S ½ of N St

EL	4.4	75.38
bb	4.1	75.68
1/4	4.3	75.5
b	4.3	75.5
1/4	4.8	75.0
bb	4.8	75.0
WL	4.9	74.9

79.78 32nd

S Curb of N St

WL	4.0	75.8
bb	4.6	75.2
1/4	4.0	75.8
b	3.7	76.1
1/4	4.2	75.6
bb	4.1	75.7
EL	4.0	75.8

S Line of N St

EL	2.7	77.1
bb	3.2	76.6
1/4	3.5	76.3
b	3.3	76.5
1/4	3.5	76.3
bb	3.8	76.0
WL	4.2	75.6

TP	12.35	91.57	0.26	79.42

91.57

	50'	S of	h St		
WL			11.6		80.0
bh			11,5		80.1
1/4			11,2		80.4
b			10,3		81.3
1/4			9,5		82.1
bh			8,3		83.3
EL			8,3		83.3
	100'	S of	h St		
EL			4,4		87.2
bh			4,7		86.9
1/4			5,1		86.5
b			5.7		85.9
1/4			6,2		85.4
bh			6,5		85.1
WL			7,0		84.6

	150'	S of	h St		
WL			4.6		87.0
bh			4,4		87.2
1/4			3,2		88.4
b			3,0		88.6
1/4			3,3		88.3
bh			2,9		88.7
EL			1,7		89.9
	200'	S of h	St		
EL			0,4		91.2
bh			1,2		90.4
1/4			1,3		90.3
b			1.6		90.0
1/4			2,1		89.5
bh			2,2		89.4
WL			2,4		89.2

	9/5-7		52nd	
	225' S of N St			
WL		2,3		89.3
bh		2,1		89.5
1/4		1,8		89.8
b		1,5		90.1
1/4		1,0		90.6
bh		0,7		90.9
EL		0.0		91.6
	250' S of N St			
EVL		1,3		90.3
bh		2,2		89.4
1/4		1,8		89.8
b		2,1		89.5
1/4		2,2		89.4
bh		2,2		89.4
WL		2,5		89.1

	300' S of N = N L Webster St			
WL		3.7		87.9
bh		3,5		88.1
1/4		3.4		88.2
b		3,4		88.2
1/4		3,5		88.1
bh		4,1		87.5
EL		4.0		87.6
	0,53 89.21	2,89	88.68	BM Webster
	N bh of Webster (80')			
EL		1,9		87.3
bh		2,0		87.2
1/4		1,9		87.3
b		1,6		87.6
1/4		1,8		87.4
bh		1,8		87.4
WL		1,9		87.3

8921 32nd

N 1/4 of Webster

WL	2,2	87.0
bb	2,1	87.1
1/4	2,6	86.6
b	2,3	86.9
1/4	2,5	86.7
bb	2,4	86.8
EL	2,1	87.1

Center of Webster

EL	2,6	86.6
	2,8	86.4
	2,9	86.3
	3,1	86.1
	2,8	86.4
	3,0	86.2
	2,5	86.7

8921

S 1/4 Webster

WL	3,4	85.8
bb	3,4	85.8
1/4	3,6	85.6
b	3,4	85.8
1/4	3,6	85.6
bb	3,0	86.2
EL	2,7	86.5

S bb of Webster

EL	3,7	85.5
bb	3,7	85.5
1/4	4,2	85.0
b	4,1	85.1
1/4	4,0	85.2
bb	4,0	85.2
WL	3,7	85.5

8921

	5 line of Webster	
WL	3,7	85.5
bb	3,9	85.3
1/4	4,2	85.0
b	4,3	84.9
1/4	4,4	84.8
bb	4,2	85.0
EL	3.9	85.3
	50' S of Webster	
EL	5,2	84.0
bb	5,3	83.9
1/4	5,3	83.7
b	5,4	83.8
1/4	5,4	83.8
bb	5,3	83.9
WL	5,3	83.9

8921

	100' S of Webster	
WL	6,7	82.5
bb	6,6	82.6
1/4	6,2	83.0
b	6.1	83.1
1/4	61	83.1
bb	6,0	83.2
EL	6,0	83.2
	125' S of Webster	
EL	6,6	82.6
bb	66	82.6
1/4	69	82.3
b	6,6	82.6
1/4	6,8	82.4
bb	6,9	82.3
WL	7,1	82.1

		8921			
		150' S of Webster			
WL			6.9		82.3
lb			6.6		82.6
1/4			6.3		82.9
b			6.1		83.1
1/4			6.5		82.7
lb			6.6		82.6
EL			6.9		82.3
		200' S of Webster			
EL			7.9		81.3
lb			8.0		81.2
1/4			8.1		81.1
b			8.1		81.1
1/4			8.4		80.8
lb			8.4		80.8
WL			8.0		81.2

		8921		32	
		250' S of Webster			
WL			8.9		80.3
lb			9.4		79.8
1/4			9.4		79.8
b			9.1		80.1
1/4			9.2		80.0
lb			8.8		80.4
EL			8.8		80.4
TP	0.43	83.43	6.71	83.42	
TP					
		300' S = 2nd bay st (80')			
EL			3.9		79.5
lb			3.9		79.5
1/4			3.7		79.7
b			3.9		79.5
1/4			4.3		79.1
lb			4.5		78.9
WL			4.4		79.0

8343

	N lab of Clay St		
W L	5.1	78.3	
lab	4.9	78.5	
1/4	4.9	78.5	
b	4.7	78.7	
1/4	4.4	79.0	
lab	4.2	79.2	
E L	4.0	79.4	
	N 1/4 Clay St		
E L	4.1	79.3	
lab	4.1	79.3	
1/4	4.2	79.2	
b	4.5	78.9	
1/4	4.7	78.7	
lab	4.9	78.5	
W L	4.8	78.6	

8343

	Center Clay St		
W L	5.0	78.4	
lab	4.6	78.8	
1/4	4.9	78.5	
b	4.7	78.7	
1/4	4.2	79.2	
lab	4.0	79.4	
E L	4.0	79.4	
	S 1/4 Clay		
E L	4.4	79.0	
lab	4.4	79.0	
1/4	4.6	78.8	
b	4.7	78.7	
1/4	5.0	78.4	
lab	5.0	78.4	
W L	5.1	78.3	

8343

W	S bk of clay		
WL	5.2	78.2	
bk	5.0	78.4	
1/4	5.0	78.4	
b	5.0	78.4	
1/4	4.9	78.5	
bk	5.0	78.4	
EL	5.0	78.4	
	S L of clay st		
EL	4.6	78.8	
bk	5.0	78.4	
1/4	5.1	78.3	
b	5.4	78.0	
1/4	5.2	78.2	
bk	5.3	78.1	
WL	5.8	77.6	

8 2 m

	50' S of clay st		
WL	6.0	77.4	
bk	6.2	77.2	
1/4	6.1	77.3	
b	5.7	77.7	
1/4	4.6	78.8	
bk	5.3	78.1	
EL	5.4	78.0	
	100' S of clay st		
EL	6.4	77.0	
bk	6.5	76.9	
1/4	7.0	76.4	
b	7.3	76.1	
1/4	6.9	76.5	
bk	6.8	76.6	
WL	6.8	76.6	

		83.45			
	150' S of bloy st				
W2			10,1		73.3
bb			9,7		73.7
1/4			9,3		74.1
b			8,7		74.7
1/4			8,6		74.8
bb			8,4		75.0
E2			7,7		75.7
	200' S of bloy st				
E2			6,7		76.7
bb			7,4		76.0
1/4			7,9		75.5
b			8,1		75.3
1/4			8,7		74.7
bb			9.4		74.0
W2			10,5		72.9

	250' S of bloy st				
W2			7,4		76.0
bb			8,2		75.2
1/4			8,6		74.8
b			8,4		75.0
1/4			8,0		75.4
bb			7,7		75.7
E2			7,7		75.7
TP	2,4	77.41	8.16	75.27	
	300' S = N2 Franklin				(80)
E2			2,4		75.0
bb			3,4		74.0
1/4			3,4		74.0
b			3,4		74.0
1/4			3,2		74.2
bb			3,0		74.4
W2			2,8		74.6

7741

N bk of Franklin

W2	3,0	74.4
bk	3,1	74.3
1/4	3,5	73.9
b	3,6	73.8
1/4	3,6	73.8
bk	3,9	73.5
E2	3,9	73.5

N 1/4 of Franklin

E2	4,2	73.2
bk	3,9	73.5
1/4	3,9	73.5
b	3,8	73.6
1/4	3,5	73.9
bk	3,5	73.9
W2	3,2	74.2

3200

Center of Franklin

W2	3,6	73.8
bk	3,8	73.6
1/4	4,1	73.3
b	4,0	73.4
1/4	4,1	73.3
bk	4,1	73.3
E2	4,4	73.0

S 1/4 of Franklin

E2	4,3	72.9
bk	4,1	73.3
1/4	4,1	73.3
b	4,4	73.0
1/4	4,2	73.2
bk	4,0	73.4
W2	3,5	73.9

7741

S bk of Franklin

WL	3,8	73.6
bb	3,7	73.7
1/4	4,0	73.4
b	4,7	73.7
1/4	4,1	73.3
bb	4,3	73.1
EL	4,4	73.0

S line of Franklin

EL	4,8	72.6
bb	4,7	72.7
1/4	4,7	72.7
b	5,0	72.4
1/4	4,3	73.1
bb	3,7	73.7
WL	3,8	73.6

50' S of Franklin

WL	4,7	72.7
bb	4,5	72.9
1/4	4,4	73.0
b	5,5	71.9
1/4	5,5	71.9
bb	5,7	71.7
EL	5,7	71.7

100' S of Franklin

EL	6,0	71.4
bb	6,3	71.1
1/4	6,4	71.0
b	6,4	71.0
1/4	6,2	71.2
bb	6,1	71.3
WL	6,3	71.1

		77.41			
		150' S of Franklin			
WL			7.1		70.3
bh			6.9		70.5
1½			7.0		70.4
b			6.8		70.6
1½			7.3		70.1
bh			7.3		70.1
EL			7.2		70.2
		200' S of Franklin			
EL			7.3		70.1
bh			8.2		69.2
1½			8.3		69.1
b			8.4		69.0
1½			8.5		68.9
bh			8.4		69.0
WL			8.6		68.8
TP	0.57	69.42	8.56	68.85	

		69.42	32.41		
		250' S of Franklin			
WL			3.5		65.9
bh			3.1		66.3
1½			3.4		66.0
b			2.8		66.6
1½			3.5		65.9
bh			3.1		66.3
+1			2.1		67.3
EL			2.0		67.4
		300' S = N L of Woolman			
EL			3.7		65.7
bh			4.8		64.6
+7			8.2		61.2
1½			8.2		61.2
b			8.2		61.2
1½			8.9		60.5
bh			9.4		60.0
WL			10.0		59.4

694.2

N lab of Woolman (80)

WL	10,9	58.5
lb	9,9	59.5
1/4	9,5	59.9
b	9,2	60.2
1/4	9.9	59.5
lb	7,8	61.6
EL	5.6	63.8

N lab + 6'

EL	8,5	60.9
lb	8,5	60.9

N 1/4 of Woolman

EL	9,8	59.6
lb	10,3	59.1
1/4	9,7	59.7
b	9,8	59.6
1/4	10,1	59.3
lb	10,2	59.2
WL	10,2	59.2

Center of Woolman

WL	10,3	59.1
lb	10,4	59.0
1/4	10,7	58.7
b	10,5	58.9
1/4	10,4	59.0
lb	10,4	59.0
EL	10,4	59.0

POSTED

6942

E2	S 1/4 of Woolman		
E2		11,7	58.2
bb		11,1	58.3
1/4		11,3	58.1
b		11,7	57.7
1/4		12,4	57.0
bb		12,8	56.6
W2		12.9	56.5
	S bb of Woolman		
W2		14,0	55.4
bb		14,0	55.4
1/4		13,8	56.0
b		13,5	55.9
1/4		13.4	56.0
bb		13,0	56.4
E2		12,7	56.7

	S 2 of Woolman		
E2		14,4	55.0
bb		14,0	55.4
1/4		14.1	55.3
b		14.1	55.3
1/4		14,6	54.8
bb		14,7	54.7
W2		14,5	54.9

W. C. E.

Samar

0		0
+50	+50	+50
+100	+100	+100
	+50	+25
1+30		
1+77	1+80	750
2+00	2+00	2+00
2+50	2+50	2+25 ravine
		2+38
		2+50 →
Chrat		2+62
300	300	300
80 +50	+25	+25 Chrat
		+50
0	+50	0
+50		+25
		+50
		+75
100	100	100
		+25
150	150	+50
		+75
200	200	200
		+25
250	2+50	+50
300	2+90	+75
		300
c+40		c
+80		0

250 250

Chrat 50
Van Nesse

+80
~~240~~
+30
200
+80
+28
100
50

Stadia Deductions

1	0
2	0
3	0.8
4	0.4
5	0.7
6	1.1
7	1.4
8	1.9
9	2.4
10	3.0
11	3.6
12	4.3
13	5.0
14	5.8
15	6.7
16	7.6
17	8.5
18	9.5
19	10.6
20	11.7
21	12.8
22	14.0
23	15.3
24	16.5
25	17.8
26	19.2
27	20.6
28	22.0
29	23.5
30	25.0

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. Lat.	DEGREES. Dep.	¼ DEGREE. Lat.	¼ DEGREE. Dep.	½ DEGREE. Lat.	½ DEGREE. Dep.	¾ DEGREE. Lat.	¾ DEGREE. Dep.	Degrees.
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.		

Published by H. S. Crocker Company, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.

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