Cross Sections; Columbia St.,
from Kalmia to "H" St's. Page 1 to 14.

BK.

Cross Sections: Nineteenth St.,
from So. line "D" to No. line of "N" St's.
Page 18 to 95

370

LEVEL

F.B. 119

110

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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	10.80	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	83.86	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.

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Degrees.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

Degrees.

Pa

Columbia – Kalmia to H.

Continued from Book No. 113.

001

	No. line of F.		
E. line	3.80	17.92	14.12
Curb	4.35		13.57
1/4	4.86		13.06
C.	4.57		13.35
1/4	5.10		12.82
Curb	5.71		12.21
W. line	5.10		12.82
	25 ft. No of F.		
W. line	4.90		13.02
Curb	4.80		13.12
1/4	4.80		13.12
C.	4.80		13.12
1/4	4.73		13.19
Curb	4.28		13.64
E. line	3.75 ~~4.18~~		14.17
	50 ft. No. of F.		
E. line	3.95		13.97

Columbia St.

Curb	4.36	17.92	13.56
1/4	4.53		13.39
C.	4.65		13.27
1/4	4.57		13.35
Curb	4.81		13.11
W. line	4.70		13.22
75 ft. No. of F.			
W. line	4.60		13.32
Curb	4.65		13.27
1/4	4.51		13.41
C.	4.50		13.42
1/4	4.50		13.42
Curb	4.07		13.85
E. line	4.05		13.87
100 ft. No. of F.			
E. line	3.85		14.07
Curb	4.31		13.61
1/4	4.35		13.57

Columbia St.

C.	4.37	17.92	13.55
1/4	4.50		13.42
Curb	4.45		13.47
W. line	4.45		13.47
125 ft. No. of F.			
W. line	4.41		13.51
Curb	4.33		13.59
1/4	4.23		13.69
C.	4.08		13.84
1/4	4.05		13.87
Curb	3.73		14.19
E. line	4.07		14.85
150 ft. No. of F.			
E. line	3.63		14.29
Curb	3.75		14.17
1/4	3.88		14.04
C.	3.67		14.25
1/4	4.23		13.69

Columbia St.

Curb	4.20	17.92	13.72
W. line	4.15		13.77
175 ft. No. of F.			
W. line	3.95		13.97
Curb	4.22		13.70
1/4	4.24		13.68
C.	3.70		14.22
1/4	3.80		14.12
Curb	3.50		14.42
E. line	3.10		14.82
200 ft. No. of F.			
E. line	3.08		14.92
Curb	3.33		14.59
1/4	3.61		14.31
C.	3.00		14.92
1/4	3.90		14.02
Curb	4.15		13.77
W. line	3.87		14.05

Columbia St.

225 ft. No. of F.			
W. line	3.93	17.92	13.99
Curb	4.10		13.82
1/4	3.70		14.22
C.	3.13		14.79
1/4	3.40		14.52
Curb	3.14		14.78
E. line	2.95		14.97
250 ft. No. of F.			
E. line	2.85		15.07
Curb	2.97		14.95
1/4	3.10		14.82
C.	2.83		15.09
1/4	3.42		14.50
Curb	3.87		14.05
W. line	3.85		14.07
275 ft. No. of F.			
W. line	3.55		14.37

Columbia St.

Curb		3.60	17.92	14.32
1/4		3.44		14.48
C.		2.88		15.04
1/4		2.95		14.97
Curb		2.70		15.22
E. line		2.45		15.47
So. line of E.				
E. line		2.27		15.65
Curb		2.45		15.47
1/4		2.87		15.05
C.		2.43		15.49
1/4		3.25		14.67
Curb		3.50		14.42
W. line		3.48		14.44
T.P.	6.23	3.83	20.32	14.09
Curb line So. side of E.				
W. line		6.13		14.19
Curb		6.00		14.32

Columbia St.

1/4		5.70	20.32	14.62
C.		5.30		15.02
1/4		5.25		15.07
Curb		4.90		15.42
E. line		4.85		15.47
Center line of E.				
E. line		4.74		15.58
Curb		4.95		15.37
1/4		5.28		15.04
C.		5.54		14.78
1/4		5.62		14.70
Curb		6.06		14.26
W. line		6.15		14.17
Curb line No. side of E.				
W. line		5.77		14.55
Curb		5.63		14.69
1/4		5.33		14.99
C.		5.27		15.05

Columbia St.

1/4	5.05	20.32	15.27
Curb	4.70		15.62
E. line	4.54		15.78
No. line of E.			
E. line	4.40		15.92
Curb	4.60		15.72
1/4	4.88		15.44
C.	5.17		15.15
1/4	5.28		15.04
Curb	5.70		14.62
W. line	5.81		14.51
25 No. of E.			
W. line	5.73		14.59
Curb	5.24		15.08
1/4	4.85		15.47
C.	4.74		15.58
1/4	4.52		15.80
Curb	4.23		16.09

Columbia St.

E. line	4.19	20.32	16.13
T.P.	6.23		14.09
7.84		21.93	
50' No. of E.			
W. line	6.56		15.37
Curb	6.68		15.25
1/4	6.44		15.49
C.	6.22		15.71
1/4	5.85		16.08
Curb	5.78		16.25
E. line	5.50		16.43
75' No. of E.			
E. line	5.03		16.90
Curb	5.40		16.53
1/4	5.62		16.31
C.	5.65		16.28
1/4	6.14		15.79
Curb	6.17		15.76

Columbia St.

W. line		6.04	21.93	15.89
	100 No of E.			
W. line		5.91		16.02
curb		6.03		15.90
1/4		5.74		16.19
C		5.47		16.46
1/4		5.12		16.81
curb		4.83		17.10
E. line		4.85		17.08
	125 No of E			
E. line		4.53		17.40
curb		4.63		17.30
1/4		4.85		17.08
C		5.28		16.65
1/4		5.65		16.28
curb		5.88		16.05
W. line		5.63		16.30

Columbia St.

	150 No of E			
W. line		5.72	21.93	16.21
curb		5.65		16.28
1/4		5.42		16.51
C		5.21		16.72
1/4		4.80		17.13
curb		4.51		17.42
E. line		4.38		17.55
	175 No of E			
E. line		4.34		17.59
curb		4.56		17.38
1/4		4.47		17.46
C		5.05		16.88
1/4		5.18		16.75
curb		5.50		16.43
W. line		5.68		16.25
	200 No of E			
W line		5.58		16.35

Columbia St

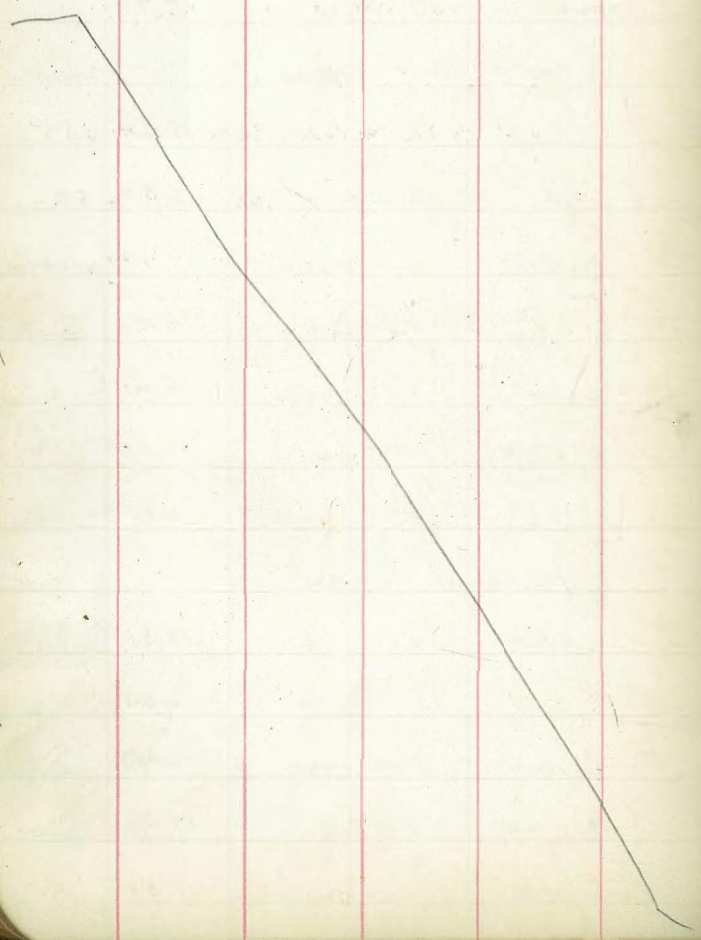
curb		5.48	21.93	16.45
1/4		5.38		16.55
C		5.13		16.80
1/4		4.73		17.20
curb		4.48		17.45
E. line		3.88		18.05
	225 No of E			
E line		4.12		17.81
curb		4.52		17.41
1/4		4.63		17.30
C		5.10		16.83
1/4		4.88		17.05
curb		5.30		16.63
W. line		5.72		16.21
	250 No. of E			
W. line		5.50		16.43
curb		5.47		16.46
1/4		5.33		16.60

Columbia St.

C		5.03	21.93	16.90
1/4		4.38		17.55
curb		4.36		17.63
E. line		4.12		17.81
	275 No of E			
E line		3.91		18.02
curb		4.66		17.33
1/4		4.80		17.13
C		5.00		16.93
1/4		5.52		16.41
curb		5.78		16.15
W. line		5.88		16.05
	South line D			
W. line		5.62		16.31
curb		5.60		16.33
1/4		5.50		16.43
C		4.60		17.33
1/4		4.62		17.31

Columbia St.

curb	4.12	21.93	17.81
E. line	3.55		18.38
T. P. B. M	2.22		19.71



Nineteenth St. from So. line of D, to No. line of N.

List of B. M's on 19th.

N-	N.E. Cor. Spk. 1' N. fence Cor.	34.256
	S.W. " Cop. tk. in Water table	27.382
M.	N.E. Cor. Iron spike Cor. of fence	63.250
L.	S.E. Cor. Cop. Tack. Base board of fence	64.022
K.	On top of Ball of Cor. fence post. S.E. Cor.	71.119
J.	N.W. Cor. Iron spike in Cor. of fence	67.750
I.	S.E. Cor. Cop. Tack on top of fence rail.	73.680
H.	S.W. Cor. Iron spike Tel. pole.	66.130
G.	S.W. " Noz. Hydrant	76.09
F.	N.E. " Cop. Tack. on top of fence post.	84.590

E. Copper tack in plug, 28"
N. E. of N. E. Corner. 83.864

D. Iron spike in cor. of
fence. S. W. Corner 93.204

Bench Marks established on
19th. Street.

Cross Sections - 19th street.
from D to N. - June 26/1901 -

{d Hemecourt
{Williams
Kenniston

B.M. at N.E. Cor. of 19th & F = 84.59

	0.64	~~85.25~~	84.59
	No. side of F.		
E. side	4.22		81.01
Curb	4.84		80.41
1/4	5.07		80.18
C.	5.60		79.65
1/4	6.73		78.52
Curb	7.88		77.37
W. line	8.54		76.71
20'	11.80		73.45
	25 ft. No. of F. (275 ft. So. of E.)		
20'	12.40		72.85
W. line	8.07		77.18
Curb	7.47		77.78
1/4	7.00		78.25

C.	5.67	85.25	79.58
1/4	5.30		79.95
Curb	5.05		80.20
E. line	4.11		81.14
	50 ft. No. of F. (250 ft. So. of E.)		
E. line	4.25		81.00
Curb	4.67		80.58
1/4	5.10		80.15
C.	5.60		79.65
1/4	6.43		78.82
Curb	6.95		78.30
W. line	8.10		77.15
20'	13.70		71.55
	75 ft. No. of F. (225' So. of E.)		
20'	15.20		70.05
W. line	9.1		76.15
^ + v	6.3		78.95
Curb	6.1		79.15

19th st.

1/4	5.77	85.25	79.48
b.	5.24		80.01
1/4	4.75		80.50
Curb	4.43		80.82
E. line	3.60		81.65
	100 ft. No. of F.		(200' So. of E.)
E. line	3.53		81.72
Curb	4.13		81.12
1/4	4.05		81.20
b.	4.17		81.08
1/4	5.06		80.19
Curb 9'	5.58		79.67
	6.00		79.25
W. line	8.62		76.63
20'	13.70		71.55
	125 ft. No. of F.		175 ft. So. of E.
20'	12.80		72.45
W. line	7.85		77.40

19th street,

	5.80	85.25	79.45
Curb 10'	5.42		79.83
1/4	4.20		81.05
b.	3.43		81.82
1/4	3.62		81.63
Curb	3.54		81.71
E. line	2.87		82.38
	150 ft. No. of F.		(150 ft. So. of E.)
E. line	3.10		82.15
Curb	3.23		82.02
1/4	3.54		81.71
b.	3.79		81.46
1/4	4.37		80.88
Curb	5.10		80.15
9'	5.35		79.90
W. line	8.17		77.08
20'	11.90		73.35

19th st.

175 ft. No. of F. (125 ft. So. of E.)

20'	10.40	85.25	74.85
W. line	7.10		78.15
4'	5.05		80.20
Curb	4.80		80.45
1/4	3.55		81.70
C.	2.77		82.48
~~Curb~~ 1/4	3.23		82.02
Curb	3.08		82.17
E. line	2.75		82.50
T. P.	2.72		82.51
6.48		88.99	

200 ft. No. of F. (100 ft. So. of E.)

E. line	5.98		83.01
Curb	6.52		82.47
1/4	6.67		82.32
C.	6.80		82.19
1/4	7.08		81.91

19th street.

Curb	8.08	88.99	80.91
~~W. line~~ 4'	8.45		80.54
W. line	10.25		78.74
15'	12.10		76.89

225 No. of F. (75 ft. So. of E.)

10'	10.70		78.29
W. line	9.65		79.34
4'	8.12		80.87
Curb	7.70		81.29
1/4	7.05		81.94
Center	6.80		82.19
1/4	6.47		82.52
Curb	5.75		83.24
E. line	5.08		83.91

(50 ft. So. of E.) 250 ft. No. of F.

E. line	4.95		84.04
Curb	6.12		82.82
1/4	6.15		82.84
Center	6.20		82.79

19th St.

1/4	6.65	88.99	82.34
Curb	7.20		81.79
W. line	7.10		81.89
10'	10.22		78.77
	275 ft. No of F (25 ft. So. of E.)		
W. line	5.25		84.74
Curb	5.12		83.87
1/4	4.78		84.21
Center	4.20		84.79
1/4	4.20		84.79
Curb	4.08		84.91
E line	4.62		84.37
	South line of E.		
E. line	3.80		85.19
Curb	2.75		86.24
1/4	3.05		85.94
Center	3.25		85.74
1/4	3.67		85.32

19th St.

Curb	4.00	88.99	84.99
W. line	5.22		83.77
	14' No of S. line of E.		
W. line ~~14~~ north	3.20		85.79
Curb	3.22		85.77
1/4	2.73		86.26
Center	2.75		86.24
1/4	2.33		86.66
Curb	2.12		86.87
E. line	2.05		86.94
	Center of E. St.		
E. line	2.35		86.64
Curb	2.45		86.54
1/4	2.35		86.64
Center	2.55		86.44
1/4	2.88		86.11
Curb	3.15		85.84
W. line	4.05		84.94

19th. St.

Curb line No side of E. St.

W. line	4.15	88.99	84.84
Curb	3.52		85.47
1/4	3.25		85.74
Center	3.42		85.57
1/4	3.07		85.92
Curb	2.88		86.11
E. line	2.82		86.17

North line of E St.

E. line	3.55	85.44
Curb	2.90	86.09
1/4	2.92	86.07
Center	3.45	85.54
1/4	3.47	85.52
Curb	4.15	84.84
W. line	5.30	83.69

25 ft No of E. (275' So. of D.)

W. line	5.60	83.39

Curb	4.40	88.99	84.59
1/4	4.25		84.74
Center	4.35		84.64
1/4	4.20		84.79
Curb	3.83		85.16
E. line	5.20		83.79

50 ft No. of E. (250' So. of D)

E. line	5.45	83.54
Curb	4.93	84.06
1/4	4.02	84.97
Center	4.47	84.52
1/4	4.38	84.61
Curb	4.65	84.34
W. line	3.88	85.11

75 ft. No of E. (225' So. of D)

W. line	2.38	86.61
Curb	4.00	84.99
1/4	4.88	84.11

19th St.

Center	4.78	88.99	84.21
¼	4.90		84.09
Curb	4.45		84.54
E. line	5.10		83.89
100 ft. No of E. (200 ft. So. of D)			
E. line	4.63		84.36
Curb	4.30		84.69
¼	4.40		84.59
Center	4.38		84.61
¼	4.30		84.69
Curb	4.05		84.94
W. line	2.22		86.77
125 ft. No of E. (175 ft So. of D)			
W. line	2.40		86.59
Curb	3.85		85.14
¼	4.15		84.84
Center	4.18		84.81
¼	4.05		84.94

19th St.

Curb	4.00	88.99	84.99
E. line	4.15		84.84
T. P.	4.00	~~93.89~~	84.99
8.90		93.89	
150 ft No of E. (150' So. of D)			
E. line	7.61		86.28
Curb	8.65		85.24
¼	8.87		85.02
Center	8.88		85.01
¼	8.78		85.11
Curb	8.22		85.67
W. line	7.20		86.69
175 ft. No of E. (125' So. of D)			
W. line	6.43		87.46
Curb	6.78		87.11
¼	8.02		85.87
Center	8.38		85.51
¼	8.30		85.59

19th. St.

Curb	7.87	93.89	86.02
E. line	6.72		86.17
200 ft. No of E (100' ft. So. of D.)			
E. line	6.82		87.07
Curb	7.15		86.74
1/4	7.70		86.19
Centre	7.12		86.77
1/4	6.68		87.21
Curb	5.82		88.07
W. line	5.78		88.11
225 ft. No of E. (75' So. of D.)			
W. line	5.30		88.59
Curb	5.47		88.42
1/4	5.42		88.47
Centre	5.90		88.01
1/4	6.28		87.61
Curb	6.93		86.96
E. line	6.50		87.39

19th. St.

250 ft. No of E. (50' So. of D.)			
E. line	5.85	93.89	88.04
Curb	6.04		87.85
1/4	5.70		88.19
Centre	5.22		88.67
1/4	4.70		89.19
Curb	4.82		89.07
W. line	4.40		89.49
275 ft. No. of E. (25 So. of D)			
W. line	2.28		91.61
Curb	3.48		90.41
1/4	3.95		89.94
Centre	4.38		89.51
1/4	4.90		88.99
Curb	4.98		89.91
E. line	5.30		88.59
South Line of D.			
E. line	3.52		90.37

19th St.

Curb	4.20	93.89	89.69
1/4	4.18		89.71
Center	4.38		89.51
1/4	4.30		89.59
Curb	2.77		91.12
W. line	1.48		92.41

B. M. on top of Iron Post N.E. cor 19th and "H" = 84.59

0.55 85.14

Curb No side of H

E. line	3.82	81.32
Curb	4.40	80.70
1/4	4.80	80.34
Center	5.47	79.67
1/4	6.38	78.76
Curb	7.80	77.34
W. Line	8.63	76.51

19th St.

Center of H St

W line	7.73	85.14	77.41
Curb	6.96		78.24
1/4	5.90		79.24
Center	5.08		80.06
1/4	4.45		80.69
Curb	3.73		81.41
E. line	3.00		82.14

Curb South side of H

E. line	3.50	81.64
Curb	4.00	81.14
1/4	4.42	80.72
Center	4.70	80.44
1/4	5.68	79.46
Curb	7.15	77.99
W. line	8.08	77.06

South line of H.

W. line	7.78	77.36

19th, street

Curb	6.91	85.14	~~85.14~~ 78.23
1/4	5.78		79.36
	3.80		81.34
Centre	4.75		80.41
	3.85		81.29
1/4	3.00		82.14
	3.68		81.46
Curb	1.70		83.44
	2.65		82.49
E. line	0.70		84.44
25 ft. So. of H			
E line	0.75		84.39
Curb	2.52		82.62
1/4	3.68		81.46
Centre	4.25		80.89
1/4	5.45		79.69
Curb	7.58		77.56
W. line	8.63		76.51
50 ft. So. of H			
W. line	9.58		75.56
Curb	9.14		76.00
1/4	7.82		77.32

19th St.

Centre	6.15	85.14	78.99
1/4	5.31		79.83
Curb	3.34		81.80
E. line	2.14		83.00
75 ft. So. of H.			
E. line	3.22		81.92
Curb	5.48		79.66
1/4	6.85		78.29
Centre	8.28		76.86
1/4	9.03		76.11
Curb	9.71		75.43
W. line	9.88		75.26
100 ft. So. of H			
W line	9.81		75.33
Curb	9.85		75.29
1/4	9.40		75.74
Centre	7.15		77.99
1/4	6.37		78.77

19th St.

Curb	5.10	85.14	80.04
E. line	2.67		82.57
175 ft. So. of F.			
E. line	1.40		83.74
Curb	3.13		82.01
1/4	4.95		80.19
Centre	6.70		78.44
1/4	8.52		76.62
Curb	9.67		75.47
W. line	9.05		76.09
150 ft. So. of F.			
W. line	9.40		75.74
Curb	9.40		75.74
1/4	8.30		77.84
Centre	6.35		78.79
1/4	4.08		81.06
Curb	1.90		83.24
E. line	0.90		84.24

19th St.

T. P.	1.04		84.10
1.43		85.53	
175 ft. So. of F.			
E. line	1.05		84.48
Curb	2.05		83.28
1/4	3.60		81.93
Centre	5.96		79.55
1/4	8.30		77.23
Curb	9.40		76.13
W. line	10.62		74.91
200 ft. So. of F.			
W. line	10.90		74.63
Curb	8.60		76.93
1/4	7.48		78.05
Centre	5.92		79.61
1/4	3.00		82.53
Curb	1.70		83.83
E. line	0.50		85.03

19th Street

	275 ft. So. of F.		
E. line	0.70	85.53	84.83
Curb	1.92		83.61
1/4	3.20		82.33
Center	5.69		79.84
1/4	7.58		77.95
Curb	8.35		77.18
W. line	10.30		75.23
	350 ft. So. of F.		
W. line	9.79		75.74
Curb	8.55		76.98
1/4	7.58		77.95
Center	5.38		80.15
1/4	3.25		82.28
Curb	1.97		83.56
E. line	0.62		84.91
	275 ft. So. of F.		
E. line	1.10		84.43

19th St.

Curb	2.65	85.53	82.88
1/4	4.30		81.23
Center	5.42		80.11
1/4	7.08		78.45
Curb	8.08		77.45
W. line	9.50		76.03
	North line of G		
W. line	8.68		76.85
Curb	7.55		77.99
1/4	6.88		78.65
Center	6.10		79.43
	1/2 4.80		80.73
1/4	5.58		79.95
	1/2 5.20		80.33
Curb	3.50		82.03
	1/2 2.35		83.18
E. line	4.70		80.83
	Curb No Side of G.		
E. line	5.41		80.12
Curb	6.05		79.48
1/4	6.62		78.91

19th St.

Center	7.10	85.53	78.43
1/4	7.25		78.28
Curb	8.78		76.75
W. line	9.60		75.93
Center of G. St.			
W. line	9.78		75.75
Curb	9.00		76.53
1/4	8.30		77.23
Center	7.85		77.68
1/4	7.10		78.43
Curb	6.50		79.03
E. line	6.10		79.43
Gutter So. side of G			
E. line	6.83		78.70
Curb	7.22		78.31
1/4	7.85		77.68
Center	8.12		77.41
1/4	9.15		76.38

19th St.

Curb	10.12	85.53	75.41
W. line	10.90		74.63
South line of G.			
W. line	10.90		74.63
Curb	10.30		75.23
1/4	9.58		75.95
Center	8.50		77.03
1/4	7.33		78.20
Curb	7.32		78.21
E. line	6.68		78.85
T.P.	9.44		76.09

T.P. on Hydrant, B.M. = 76.09

19th. St.

June 27/1901 - A. Hemeant
William
Kennston

B.M. = S.W. Cor. 19th + G. =				76.09
	7.86		83.95	76.09
	10 ft. So. of G.			
W. line		9.52		74.43
Curb		8.43		75.52
1/4		7.37		76.58
C.		5.80		78.15
1/4		4.87		79.08
Curb		3.67		80.28
E. line		2.04		81.91
	25 ft. So. of G.			
E. line		2.25		81.70
Curb		3.28		80.67
1/4		5.00		78.95
C.		5.87		78.08
~~Curb~~ 1/4		6.96		76.99
Curb		8.57		75.38

19th. St.

W. line		9.54	83.95	74.41
	50 ft. So. of G.			
W. line		10.05		73.90
Curb		9.28		74.67
1/4		7.90		76.05
C.		5.75		78.20
1/4		5.10		78.85
Curb		3.80		80.15
E. line		2.46		81.49
	75 ft. So. of G.			
E. line		3.47		80.48
Curb		4.32		79.63
1/4		4.81		79.14
C.		5.95		78.00
1/4		8.16		75.79
Curb		9.80		74.15
W. line		10.88		73.07

19th St.

		100 ft. So. of G.		
W. line		11.10	83.95	72.85
Curb		10.23		73.72
1/4		8.61		75.34
C.		6.80		77.15
1/4		5.35		78.60
Curb		4.95		79.00
E. line		3.54		80.41
		125 ft. So. of G.		
E. line		4.35		79.60
Curb		5.50		78.45
1/4		6.25		77.70
C.		7.45		76.50
1/4		9.18		74.77
Curb		10.43		73.52
W. line		11.45		72.50
		150 ft. So. of G.		
W. line		12.40		71.55

19th St.

Curb		11.40	83.95	72.55
1/4		10.30		73.65
C.		8.43		75.52
1/4		7.31		76.64
Curb		6.15		77.80
E. line		5.00		78.95
T.P.	2.81	8.12	78.64	75.83
		175 ft. So. of G.		
E. line		0.90		77.74
Curb		1.70		76.94
1/4		3.07		75.57
C.		4.22		74.42
1/4		5.88		72.76
Curb		7.00		71.64
W. line		7.74		70.90
	200 ~~180~~ ft. So. of G.			
W. line		8.37		70.27
Curb		7.82		70.82

19th St.

1/4	6.63	~~83.95~~ 78.64	72.01
C.	5.26		73.38
1/4	4.12		74.52
Curb	3.21		75.43
E. line	1.90		76.74
225' So. of G.			
E. line	2.87		75.77
Curb	4.10		74.54
1/4	5.60		73.04
C.	6.10		72.54
1/4	7.52		71.12
Curb	8.20		70.44
W. line	9.18		69.46
250 ft. So. of G.			
W. line	9.87		68.77
Curb	8.87		69.77
1/4	8.18		70.46
C.	6.73		71.91

19th St.

1/4	5.95	~~83.95~~ 78.64	72.69
Curb	4.52		74.12
E. line	3.60		75.04
275 ft. So. of G.			
E. line	3.67		74.97
Curb	4.95		73.69
1/4	6.27		72.37
C.	7.30		71.34
1/4	8.62		70.02
Curb	9.35		69.29
W. line	10.61		68.03
300 ft. So. of G. = 11.4 No. of H.			
W. line	11.22		67.42
Curb	9.87		68.77
1/4	9.15		69.49
C.	8.17		70.47
1/4	6.78		71.86
Curb	5.00		73.64

19th. St.

E. line		4.15	~~83.95~~ 78.64	73.49
No. line of H.				
E. line		6.40		72.24
Cent		6.80		71.84
1/4		7.27		71.37
C.		8.37		70.27
1/4		9.34		69.30
Cent		10.00		68.64
W. line		10.80		67.84
T.P.	~~T.P. 2.78~~	10.02	71.40	68.62
Cent line No. side of H.				
W. line		5.10		66.30
		4.02		67.38
Cent line		4.00		67.40
1/4		2.60		68.80
C.		1.85		69.55
1/4		1.30		70.10
Cent		0.85		70.55

19th. St.

E. line		0.65	71.40	70.75
Center line of H.				
E. line		1.02		70.38
Cent		1.62		69.78
1/4		2.37		69.03
C.		2.97		68.43
1/4		3.58		67.82
Cent		4.25		67.15
W. line		5.10		66.30
Cent line So. side of H.				
W. line		6.20		65.20
Cent		5.43		65.97
1/4		4.72		66.68
C.		4.10		67.30
1/4		3.32		68.08
Cent		3.27		68.13
E. line		2.67		68.73

19th. St.

So. line of St.

E. line	2.83	71.40	68.57
Curb	3.13		68.27
1/4	3.85		67.55
C.	4.13		67.27
1/4	4.80		66.60
Curb	5.50		65.90
W. line	6.25		65.15

25 ft. So. of St.

W. line	7.30		64.10
Curb	6.57		64.83
1/4	6.05		65.35
C.	5.11		65.29
1/4	4.83		66.57
Curb	3.66		67.74
E. line	3.01		68.39

50 ft. So. of St.

E. line	3.57		67.83

19th. St.

Curb	4.70	71.40	66.70
1/4	5.39		66.01
C.	5.74		65.66
1/4	6.67		64.73
Curb	7.40		64.00
W. line	8.04		63.36

75 ft. So. of St.

W. line	8.10		63.30
Curb	7.50		63.90
1/4	7.05		64.35
C.	6.27		65.13
1/4	5.68		65.72
Curb	4.64		66.76
E. line	3.61		67.79

100 ft. So. of St.

E. line	3.46		67.94
Curb	5.05		66.35
1/4	5.90		65.50

19th. St.

C.	6.05	71.40	65.35
1/4	6.90		64.50
Curb	8.23		63.17
W. line	9.50		61.90
125 ft. So. of H.			
W. line	9.98		61.42
Curb	8.10		63.30
1/4	6.90		64.50
C.	6.80		64.60
1/4	6.27		65.13
Curb	5.45		65.95
E. line	3.95		67.45
150 ft. So. of H.			
E. line	4.53		66.87
Curb	5.87		65.53
1/4	6.73		64.67
C.	6.90		64.50
1/4	7.40		64.00

19th. St.

Curb	8.20	71.40	63.20
W. line	9.92		61.48
175 ft. So. of H.			
W. line	11.00		60.40
Curb	9.05		62.35
1/4	7.95		63.45
C.	6.87		64.53
1/4	6.95		64.45
Curb	6.92		64.48
E. line	6.05		65.35
200 ft. So. of H.			
E. line	6.82		64.58
Curb	6.75		64.65
1/4	6.92		64.48
C.	6.78		64.62
1/4	8.27		63.13
Curb	9.35		62.05
W. line	11.00		60.40

19th. St.

225 ft. So. of H.

W. line	11.43	71.40	59.97
Curb	10.67		60.73
1/4	9.46		62.94
C.	6.35		65.05
1/4	6.30		65.10
Curb	6.47		64.93
E. line	6.70		64.70

250 ft. So. of H.

E. line	5.96		65.44
Curb	6.27		64.13
1/4	6.45		64.95
C.	6.40		65.00
1/4	8.50		62.90
Curb	9.40		62.00
W. line	9.37		62.03

275 ft. So. of H.

W. line	8.18		63.22

19th. St.

Curb		7.85	71.40	63.55
1/4		7.35		64.05
C.		5.40		66.00
1/4		6.00		65.40
Curb		5.47		65.93
E. line		4.80		66.60

No. line of I.

E. line		3.05		69.35
Curb		3.67		67.73
1/4		4.30		67.10
C.		4.55		66.85
1/4		4.94		66.46
Curb		5.3[illegible]		66.07
W. line		5.40		66.00
T.P.	9.07	4.39	76.08	67.01

Curb line No. side of I.

W. line	9.35		66.73
Curb	8.87		67.21

19th, St.

1/4	8.20	76.08	67.88
b.	7.60		68.48
1/4	7.20		68.88
Curb	6.75		69.33
E. line	7.06		69.06
Center line of I.			
E. line	6.35		69.73
Curb	6.85		69.23
1/4	7.10		68.98
b.	7.47		68.61
1/4	7.67		68.41
Curb	8.40		67.68
W. line	9.10		66.98
Curb line No. side of I.			
W. line	9.83		66.25
Curb	8.83		67.25
1/4	8.25		67.83
b.	8.10		67.98

19th, St.

1/4	7.17	76.08	68.91
Curb	7.35		68.73
E. line	7.15		68.93
So. line of I.			
E. line	6.30		69.78
Curb	6.57		69.51
1/4	7.27		68.81
b.	7.70		68.38
1/4	7.84		68.24
Curb	8.54		67.54
W. line	8.95		67.13
5 ft. So. of I.			
W. line	7.30		68.78
Curb	7.20		68.88
1/4	6.47		69.61
b.	6.37		69.71
1/4	5.40		70.68
Curb	5.07		71.01

19th. St.

E. line	4.40	76.08	71.68
25 ft. So. of I.			
E. line	4.05		72.03
Curb	4.67		71.41
1/4	5.25		70.83
C.	5.57		70.51
1/4	6.40		69.68
Curb	6.71		69.37
W. line	6.75		69.33
50 ft. So. of I.			
W. line	6.50		69.58
Curb	6.22		69.86
1/4	6.07		70.01
C.	5.34		70.74
1/4	5.11		70.97
Curb	4.40		71.68
E. line	3.83		72.25

19th. St.

75 ft. So. of I.			
E. line	3.64	76.08	72.44
Curb	4.50		71.58
1/4	4.83		71.25
C.	5.25		70.83
1/4	5.97		70.11
Curb	6.15		69.93
W. line	6.35		69.73
100 ft. So. of I.			
W. line	6.27		69.81
Curb	6.10		69.98
1/4	6.05		70.03
C.	5.20		70.78
1/4	5.10		70.98
Curb	4.54		71.54
E. line	3.80		72.28
125 ft. So. of I.			
E. line	3.71		72.37

19th St.

Curb	4.45	76.08	71.63
1/4	5.50		70.58
C.	5.70		70.38
1/4	6.13		69.95
Curb	6.10		69.98
W. line	6.27		69.81
150 ft. So. of I.			
W. line	6.23		69.85
Curb	6.23		69.85
1/4	6.20		69.78
C.	5.40		70.68
1/4	5.45		70.63
Curb	4.87		71.21
E. line	4.24		71.84
175 ft. So. of I.			
E. line	4.07		72.01
Curb	5.05		71.03
1/4	5.77		70.31

19th St.

C.	6.14	76.08	69.94
1/4	6.57		69.51
Curb	6.37		69.71
W. line	6.31		69.77
200 ft. So. of I.			
W. line	6.70		69.38
Curb	6.87		69.21
1/4	6.94		69.14
C.	6.24		69.84
1/4	5.95		70.13
Curb	5.20		70.88
E. line	4.43		71.65
225 ft. So. of I.			
E. line	4.43		71.65
Curb	5.28		70.80
1/4	6.15		69.93
C.	6.43		69.65
1/4	7.10		68.98

19th St.

Curb	7.30	76.08	68.78
W. line	7.40		68.68
250 ft. So. of J.			
W. line	8.01		68.07
Curb	7.58		68.50
1/4	7.64		68.44
C.	6.95		69.13
1/4	6.47		69.61
Curb	5.54		70.54
E. line	4.40		71.68
275 ft. So. of J.			
E. line	4.30		71.78
Curb	6.02		70.06
1/4	6.83		69.25
C.	7.24		68.84
1/4	8.10		67.98
Curb	8.21		67.87
W. line	8.40		67.68

19th St.

No. line of J.

W. line		8.75	76.08	67.33
Curb		8.80		67.28
1/4		8.30		67.78
C.		7.33		68.75
1/4		7.17		68.91
Curb		6.83		69.25
~~W~~ E. line		6.10		69.98
T.P.	4.39	7.03	~~73.44~~	69.05
Curb line No. side of J.				
E line		3.80		69.64
Curb		4.21		69.23
1/4		4.60		68.84
C.		5.06		68.38
1/4		6.15		67.29
Curb		6.60		66.84
W. line		6.54		66.90

19th. St

	Center line of J.		
W. line	6.02	73.44	67.42
Curb	5.62		67.82
1/4	5.37		68.07
C.	4.91		68.53
1/4	4.47		67.97
Curb	3.90		69.54
E. line	3.20		70.14
	Curb line So. side of J.		
E. line	3.77		69.67
Curb	4.10		69.34
1/4	4.30		69.14
C.	4.76		68.68
1/4	5.90		67.54
Curb	6.25		67.19
W. line	6.60		66.84
	So. line of J.		
W. line	6.43		67.03

19th. St.

Curb	5.97	73.44	67.47
1/4	5.78		67.66
C.	5.10		68.34
1/4	4.67		68.77
Curb	4.27		69.17
E. line	3.77		69.67
	25 ft. So. of J.		
E. line	4.00		69.44
Curb	4.06		69.38
1/4	4.45		68.99
C.	4.57		68.87
1/4	5.60		67.84
Curb	6.40		67.04
W. line	6.93		66.51
	50 ft. So. of J.		
W. line	6.80		66.64
Curb	6.57		66.87
1/4	5.64		67.80

19th. St.

b.	4.55	73.44	68.89
1/4	4.27		69.17
Curb	4.08		69.36
E. line	4.08		69.36
75 ft. So. of J.			
E. line	4.20		69.24
Curb	3.95		69.49
1/4	4.28		69.16
b.	4.57		68.87
1/4	5.87		67.57
Curb	6.63		66.81
W. line	6.84		66.60
100 ft. So. of J.			
W. line	7.10		66.34
Curb	6.75		66.69
1/4	5.85		67.59
b.	4.85		68.59
1/4	4.43		69.01

19th. St.

Curb	4.10	73.44	69.34
E. line	3.70		69.74
125 ft. So. of J.			
E. line	4.07		68.37
Curb	4.52		68.92
1/4	4.77		68.67
b.	5.46		67.98
1/4	6.13		67.31
Curb	6.94		66.50
W. line	7.15		66.29
150 ft. So. of J.			
W. line	7.45		65.99
Curb	7.32		66.12
1/4	6.88		66.56
b.	5.10		68.34
1/4	4.95		68.49
Curb	5.30		68.14
E. line	4.55		68.89

19th. st.

175 ft. So. of J.

E. line	5.12	73.44	68.32
Curb	5.78		67.66
1/4	6.23		67.21
C.	6.57		66.87
1/4	7.25		66.19
Curb	7.64		65.80
W. line	8.20		65.24

200 ft. So. of J.

W. line	7.83		65.61
Curb	7.37		66.07
1/4	7.70		65.74
C.	6.50		66.94
1/4	6.25		67.19
Curb	6.18		67.26
E. line	6.56		66.88

225 ft. So. of J.

E. line	4.95		68.49

19th. st.

Curb	5.57	73.44	67.87
1/4	5.63		67.81
C.	6.00		67.44
1/4	6.77		66.67
Curb	6.83		66.61
W. line	7.63		65.81

250 ft. So. of J.

W. line	7.78		65.66
Curb	7.20		66.14
1/4	7.02		66.42
C.	6.13		67.31
1/4	6.05		67.39
Curb	5.47		67.97
E. line	4.87		68.57

~~No. line of K~~, 275 ft. So. of J.

E. line	5.35		68.09
Curb	5.74		67.70
1/4	6.20		67.24

19th. st.

b.	6.56	73.44	66.88
1/4	7.20		66.24
Curb	7.64		65.80
W. line	8.05		65.39
No. line of K.			
W. line	8.20		65.24
Curb	7.75		65.69
1/4	7.30		66.14
b.	7.10		66.34
1/4	6.77		66.67
Curb	6.30		67.14
E. line	5.57		67.87
Curb line No. side of K.			
E. line	5.65		67.79
Curb	6.45		66.99
1/4	6.42		67.02
b.	6.59		66.85
1/4	7.47		65.97

19th. st.

Curb	8.45	73.44	64.99
W. side	8.70		64.74
Center line of K.			
W. side	8.35		65.09
Curb	7.87		65.57
1/4	7.60		65.84
b.	7.34		66.10
1/4	6.95		66.49
Curb	6.71		66.73
E. line	6.30		67.14
Curb line South side of K.			
E. line	5.70		67.74
Curb	6.25		67.19
1/4	6.57		66.87
b.	6.77		66.67
1/4	7.47		65.97
Gutter	8.40		65.04
W. line	8.50		64.94

19th. st.

T.P.		2.31		71.13

T.P or B.M. at S.E. Cor. 19th + K. = 71.12

June 28th 1901.

d'Hemecourt
William
Kennaston

B.M. 19+K	0.84		71.96	71.12
So. line of K.				
E. line		4.30		67.66
Curb		5.00		66.96
1/4		5.50		66.46
C.		5.90		66.06
1/4		7.04		64.92
Curb		7.67		64.29
		6.63		65.33
W. line		7.34		64.62
4 ft. So. of K.				
W. line		8.10		63.86
Curb		8.00		63.96

19th. st.

1/4		7.20	71.96	64.76
C.		6.13		65.83
1/4		5.63		66.33
Curb		4.95		67.01
E. line		4.15		67.81
25 ft. So. of K.				
E. line		3.98		67.98
Curb		4.55		67.41
1/4		5.71		66.25
C.		6.35		65.61
1/4		7.20		64.76
Curb		7.95		64.01
W. line		8.80		63.16
50 ft. So. of K.				
W. line		8.77		63.19
Curb		8.33		63.63
1/4		7.45		64.51
C.		6.41		65.55

19th St.

1/4	5.87	71.96	66.09
Curb	4.61		67.35
E. line	4.15		67.81
75 ft. So. of K.			
E. line	4.35		67.61
Curb	4.95		67.01
1/4	6.14		65.82
C.	6.80		65.16
1/4	7.75		64.21
Curb	8.33		63.63
W. line	9.17		62.79
100 ft. So. of K.			
W. line	9.35		62.61
Curb	8.63		63.33
1/4	7.87		64.09
C.	6.45		65.51
1/4	6.24		65.72
Curb	5.19		66.77

19th St.

E. line	4.43	71.96	67.53
125 ft. So. of K.			
E. line	4.11		67.85
Curb	4.62		67.34
1/4	6.15		65.81
C.	6.22		65.74
1/4	7.95		64.01
Curb	8.56		63.40
W. line	9.23		62.73
150 ft. So. of K.			
W. line	8.40		63.56
Curb	8.12		63.84
1/4	7.20		64.76
C.	6.65		65.31
1/4	6.08		65.88
Curb	5.20		66.76
E. line	4.20		67.76

19th. st.

175 ft. So. of K.			
E. line	3.50	71.96	68.46
Curb	4.63		67.33
1/4	5.35		66.61
C.	5.73		66.23
1/4	6.64		65.32
Curb	7.30		64.66
W. line	7.96		64.00
200 ft. So. of K.			
W. line	7.88		64.08
Curb	6.93		65.03
1/4	6.20		65.76
C	5.50		66.46
1/4	4.96		67.00
Curb	3.60		68.36
E. line	2.60		69.36
225 ft. So. of K.			
E. line	3.07		68.89

19th. st.

Curb	4.50	71.96	67.46
1/4	5.10		66.86
C.	5.47		66.49
1/4	6.33		65.63
Curb	7.12		64.84
W. line	8.27		63.69
250 ft. So. of K.			
W. line	8.81		63.15
Curb	7.63		64.33
1/4	6.50		65.46
C.	5.30		66.66
1/4	4.92		67.04
Curb	4.24		67.72
E line	3.23		68.73
275 ft. So. of K.			
E. line	4.10		67.86
Curb	4.63		67.33
1/4	5.90		66.06

19th. st.

b,		6.57	71.96	65.39
1/4		7.45		64.51
Curb		8.03		63.93
W, line		8.37		63.59
No. line of L,				
W. line		9.20		62.76
Curb		8.47		62.49
1/4		8.05		63.91
b.		7.42		64.54
1/4		6.90		65.06
Curb		6.37		65.59
E. line		5.55		66.41
T. P.	1.87	6.83	67.00	65.13
Curb line No. side of L.				
E. line		1.17		65.83
Curb		1.74		65.26
1/4		2.42		64.58
b.		2.92		64.08

19th. street

1/4		3.54	67.00	63.46
Curb		3.87		63.13
W. line		4.73		62.27
Center Line of L.				
W. line		5.95		61.05
Curb		5.18		61.82
1/4		4.66		62.34
b.		4.08		62.92
1/4		3.48		63.52
Curb		3.00		64.00
E. line		2.30		64.70
Curb line So. side of L.				
E. line		3.20		63.80
Curb		3.83		63.17
1/4		4.27		62.73
b.		4.95		62.05
1/4		5.60		61.40
Curb		6.33		60.67

19th street

W. line	7.25	67.00	59.75
So. line of L.			
W. line	7.90		59.10
Curb	6.50		60.50
1/4	6.13		60.87
C.	5.54		61.46
1/4	4.86		62.14
Curb	4.05		62.95
E. line	3.83		63.17
B.M. 19+L.	2.97		64.03
25 ft. So. of L.			
E. line	4.70		62.30
Curb	5.40		61.60
1/4	6.05		60.95
C.	6.44		60.56
1/4	7.10		59.90
Curb	8.35		58.65
W. line	8.93		58.07

19th street.

50 ft. So. of L.			
W. line	8.81	67.00	58.19
Curb	8.53		58.47
1/4	7.92		59.08
C.	7.55		59.45
1/4	6.94		60.06
Curb	5.85		61.15
E. line	5.22		61.78
75 ft. So. of L.			
E. line	6.27		60.73
Curb	6.51		60.49
1/4	7.10		59.90
C.	7.15		59.85
1/4	8.35		58.65
Curb	8.77		58.23
W. line	9.12		57.88
100 ft. So. of L.			
W. line	9.40		57.60

19th. St.

Curb	9.18	67.00	57.82
1/4	8.77		58.23
C.	8.25		58.75
1/4	8.13		58.87
Curb	7.67		59.33
E. line	6.88		60.12
125 ft. So. of L.			
E. line	7.80		59.20
Curb	8.10		58.90
1/4	8.33		58.67
C.	8.73		58.27
1/4	9.23		57.77
Curb	9.63		57.37
W. line	9.93		57.07
150 ft. So. of L.			
W. line	10.65		56.35
Curb	10.13		56.87
1/4	9.78		57.22

19th. St.

C.	9.18	67.00	57.82
1/4	8.90		58.10
Curb	8.27		58.73
E. line	7.81		59.19
175 ft. So. of L.			
E. line	8.05		58.95
Curb	8.55		58.45
1/4	8.47		58.53
C.	8.30		58.70
1/4	9.05		57.95
Curb	10.28		56.72
~~Curb~~ W. line	10.87		56.13
~~W. line~~			
200 ft. So. of L.			
W. line	11.47		55.53
Curb	10.10		56.90
1/4	9.50		57.50
C.	9.07		57.93

19th. St.

1/4	8.22	67.00	58.78
Curb	6.17		60.83
E. line	5.64		61.36
225 ft. So. of L.			
E. line	5.05		61.95
Curb	6.13		60.87
1/4	8.00		59.00
C.	9.75		57.25
1/4	10.10		56.90
Curb	10.60		56.40
W. line	11.95		55.05
250 ft. So. of L.			
W. line	11.43		55.57
Curb	10.45		56.55
1/4	9.33		57.67
C.	7.80		59.20
1/4	7.20		59.80
Curb	5.63		61.37

19th. St.

E. line		4.90	67.00	62.10
275 ft. So. of L.				
E. line		4.95		62.05
Curb		5.20		61.80
1/4		6.45		60.55
C.		7.55		59.45
1/4		8.95		58.05
Curb		10.10		56.90
W. line		11.00		56.00
No. line of M.				
W. line		10.50		56.50
Curb		9.20		57.80
1/4		8.30		58.70
C.		7.25		59.75
1/4		6.45		60.55
Curb		5.57		61.43
E. line		4.83		62.17
T.P.	1.11	5.06	63.05	61.94

19th. st.

Curb line No. side of M.

E. line	1.60	63.05	61.45
Curb	1.83		61.22
1/4	2.53		60.52
C.	3.21		59.84
1/4	4.36		58.69
Curb	5.21		57.84
W. line	6.20		56.85

12 ft. No. of Center of M.

W. line	5.90		57.15
Curb	5.07		57.98
1/4	3.95		59.10
C.	3.20		59.85
1/4	2.85		60.20
Curb	2.48		60.57
E. line	1.45		61.60

5 ft No. of Center of M.

E. line	2.13		60.92

19th. Street

Curb	3.15	63.05	59.90
1/4	5.62		57.43
C.	6.18		56.87
1/4	7.18		55.87
Curb	7.68		55.37
W. line	8.36		54.69

Center of M.

E. side	2.13		60.92
Curb	3.15		59.90
1/4	5.62		57.43
C.	6.18		56.87
1/4	7.18		55.87
Curb	7.68		55.37
W. line	8.36		54.69

5 ft. So. of Center of M.

E. line	2.13		60.92
Curb	3.15 ~~5.62~~		59.90
1/4	5.62 ~~6.18~~		57.43

19th st,

b	6.18	63.05	56.87
1/4	7.18		55.87
Curb	7.68		55.37
W. line	8.36		54.69
14 ft, So. of Center of M			
W. line	6.60		56.45
Curb	5.65		57.40
1/4	3.43		59.62
b.	2.80		60.25
1/4	2.30		60.75
Curb	1.87		61.18
E. line	1.00		62.05
Curb line So. side of M,			
E. line	2.35		60.70
Curb	2.62		60.43
1/4	2.95		60.10
b.	3.22		59.83
1/4	3.94		59.11

19th st,

Curb	6.04	63.05	57.01
W. line	6.75		56.30
So. line of M.			
W. line	6.32		56.73
Curb	5.40		57.65
1/4	4.60		58.45
b.	4.20		58.85
1/4	3.61		59.44
Curb	3.35		59.70
E. line	2.30		60.75
25 ft. So. of M.			
E. line	4.65		58.40
Curb	5.33		57.72
1/4	5.30		57.75
b.	5.33		57.72
1/4	5.90		57.15
Curb	6.45		56.60
W. line	7.05		56.00

19th St.

50 ft. So. of M.

				54.20
W. line		8.85		63.05
Curb		8.50		54.55
1/4		8.60		54.45
C.		8.45		54.60
1/4		8.05		55.00
Curb		8.17		54.88
E. line		7.41		55.64

75 ft. So. of M.

E. line		9.90		53.15
Curb		10.45		52.60
1/4		10.17		52.88
C.		10.35		52.70
1/4		10.93		52.12
Curb		10.34		52.71
W. line		10.10		52.95
T.P.	1.80	11.67	53.18	51.38

19th St.

100 ft. So. of M.

W. line		2.45	53.18	50.73
Curb		2.65		50.53
1/4		2.75		50.43
C.		3.08		50.10
1/4		2.85		50.33
Curb		2.67		50.51
E. line		2.83		50.35

125 ft. So. of M.

E. line		4.65		48.53
Curb		4.80		48.38
1/4		5.20		47.98
C.		5.40		47.78
1/4		5.94		47.24
Curb		6.00		47.18
W. line		5.60		47.58

150 ft. So. of M.

W. line		8.92		44.26

19th. St.

Curb		8.82	53.18	44.36
1/4		8.48		44.70
C.		8.50		44.68
1/4		8.05		45.13
Curb		7.17		46.01
E. line		6.50		46.68
175 ft. So. of M.				
E. line		8.80		44.38
Curb		9.10		44.08
1/4		10.02		43.16
C.		11.05		42.13
1/4		11.75		41.43
Curb		12.10		41.08
W. line		12.10		41.08
T.P.	0.65	11.76	42.07	41.42
200 ft. So. of M.				
W. line		4.10		37.97
Curb		3.85		38.22

19th. St.

1/4		3.08	42.07	38.99
C.		1.65		40.42
1/4		1.17		40.90
Curb		0.41		41.66
E. line		0.02		42.05
225 ft. So. of M.				
E. line		2.57		39.50
Curb		3.35		38.72
1/4		3.84		38.23
C.		4.40		37.67
1/4		5.85		36.22
Curb		6.02		36.05
W. line		6.36		35.71
250 ft. So. of M.				
W. line		7.97		34.10
Curb		7.67		34.40
1/4		7.43		34.64
C.		6.62		35.45

19th. st.

1/4	5.98	42.07	36.09
Curb	5.87		36.20
E. line	4.97		37.10
275 ft. So. of M.			
E. line	6.95		35.12
Curb	7.40		34.67
1/4	7.67		34.40
C.	8.05		34.02
1/4	8.84		33.23
Curb	8.85		33.22
W. line	9.12		32.95
No. line of M.			
W. line	10.57		31.50
Curb	10.40		31.67
1/4	10.50		31.57
C.	10.00		32.07
1/4	9.62		32.45
Curb	9.25		32.82

19th. st.

E. line	9.00	42.07	33.07

10/23/02.

Gutters on Upper 5th st.

Gutter So. side Hawthorne (E. 5th)

b.	3.2	199.48	196.28
2'	3.3		196.18
5'	3.1		196.38

1/4 So. side Hawthorne (E. 5th)

b.	2.9	196.58
2'	2.9	196.58
5'	2.8	196.68

Center Hawthorne (E. 5th)

b.	2.7	196.78
2'	2.7	196.78
5	2.5	196.98

1/4 No. side Hawthorne (E. 5th)

b.	2.3	197.18
2'	2.4	197.08
5'	2.2	197.28

Gutter No. side Hawthorne (E. 5th)

b.	1.7	199.48	197.78
2'	1.8		197.68
5'	1.4		198.08

B.M.	8.68	224.49	215.81

Gutter So. side of Ivy (E. 5th)

b.	11.3	213.19
2'	11.7	212.79
5'	11.0	213.49

1/4 So. side of Ivy (E. 5th)

b.	11.1	213.39
2'	11.1	213.39
5'	10.7	213.79

Center of Ivy. (E. 5th)

b.	10.6	213.89
2'	10.7	213.79
5'	10.2	214.29

	1/4 No. side of Ivy (E. side)		
b.	10.4	224.49	214.09
2'	10.4		214.09
5'	10.3		214.19
	Gutter No. side of Ivy (E. 5th)		
b.	10.2		214.29
2'	10.2		214.29
5'	10.0		214.49
	Gutter, So. side Ivy (W. 5th.)		
b.	11.9		212.59
2'	11.8		212.69
5	11.6		212.89
	1/4 So. side Ivy (W. 5th)		
b.	11.1		213.39
2'	11.5		212.99
5'	11.1		213.39
	Center Ivy (W. 5th)		
b.	11.0		213.49

2'	11.1	224.49	213.39
5'	10.6		213.89
	1/4 No. side Ivy (W. 5th.)		
b.	10.7		213.79
2'	10.7		213.79
5'	10.4		214.09
	Gutter No. side Ivy. (W. 5th.)		
b.	10.4		214.09
2'	10.6		213.89
5'	10.1		214.39
	No. line of Ivy (W. 5th.)		
b.	10.2		214.29
2'	10.2		214.29
5'	9.8		214.69
	25' N. of Ivy (W. 5th.)		
b.	9.2		215.29
2'	9.0		215.49
5'	8.6		215.89

	50' No. of Ivy. (W, 5th.)		
b.	8.1	224.49	216.39
2'	7.8		216.69
5'	7.7		216.79
	75' No. of Ivy. (W, 5th.)		
b.	7.1		217.39
2'	7.0		217.49
5'	6.5		217.99
	100' No. of Ivy. (W, 5th.)		
b.	5.7		218.79
2'	5.5		218.99
5'	5.3		219.19
	125' No. of Ivy (W, 5th.)		
b.	4.7		219.79
2'	4.7		219.79
5'	4.4		220.09
	150' No. of Ivy (W, 5th.)		
b.	3.7		220.79

2'	3.4	224.49	221.09
5'	3.3		221.19
	175' No. of Ivy. (W, side.)		
b.	2.7		221.79
2'	2.3		222.19
5	2.1		222.39
	200' No. of Ivy (W, side.)		
b.	1.6		222.89
2'	1.1		223.39
5'	1.0		223.49
	No. line of Ivy (E, 5th.)		
b.	9.8		214.69
2'	9.8		214.69
5'	9.3		215.19
	25' No. of Ivy (E, 5th.)		
b.	9.3		215.19
2'	9.1		215.39
5'	8.5		215.99

	50' No. of Ivy (E. 5th.)			
b.		8.1	224.49	216.39
2'		8.2		216.29
5'		7.5		216.99
	75' No. of Ivy (E. 5th.)			
b.		6.8		217.69
2'		6.5		217.99
5'		6.5		217.99
	100' No. of Ivy (E. 5th.)			
b.		5.4		219.09
2'		5.4		219.09
5'		5.5		218.99
	125' No. of Ivy (E. 5th.)			
b.		4.4		220.09
2'		4.3		220.19
5'		4.3		220.19
	150' No. of Ivy (E. 5th)			
b.		3.4		221.09

2'		3.5	224.49	220.99
5'		3.2		221.29
	175' No. of Ivy (E. 5th.)			
b.		2.3		222.19
2'		2.3		222.19
5'		2.0		222.49
	200' No. of Ivy (E. 5th.)			
b.		1.2		223.29
2'		1.1		223.39
5'		1.0		223.49
T.P.	9.25	0.52	233.22	223.97
	225' No. of Ivy (E. 5th.)			
b.		8.9		224.32
2'		8.9		224.32
5'		8.6		224.62
	250' No. of Ivy (E. 5th.)			
b.		7.9		225.32
2'		7.9		225.32

5'	7.6	233.22	225.62

275' No. of Ivy. (~~W~~ E, 5th)

b.	7.0	226.22
2'	6.8	226.42
5'	6.5	226.72

So. line of Juniper (~~W~~ E, 5th.)

b.	6.1	227.12
2'	5.8	227.42
5'	5.6	227.22

225' No. of Ivy (~~W~~ 5th)

b.	8.6	224.62
2'	8.8	224.42
5'	8.7	224.52

250' No. of Ivy (~~W~~ 5th.)

b.	8.0	225.22
2'	8.2	225.02
5'	7.6	225.62

275' No. of Ivy. (W, 5th.)

b.	6.9	233.22	226.32
2'	7.1		226.12
5'	6.8.		226.42

So. line of Juniper (W. 5th.)

b.	6.0	227.22
2'	6.4	226.82
5'	5.8	227.42
T.P.	1.56	231.66

on Iron fence J.H. Gay's.

10/~~29~~ 30/02. d'Hennecourt Fortiner & Davis.

T.P. on Iron fence S.E. Cor. 5th and Juniper (J.H. Gay's.—

Gutter So. side of Juniper (E. 5th)

	3.86	235.52	231.66
C.	7.9		227.62
2'	7.5		228.02
5'	7.4		228.12 ✓

1/4 So. side Juniper (E. 5th.)

C.	7.7	227.82
2'	7.4	228.12
5'	7.0	228.52 ✓

Center of Juniper (E. 5th)

C	7.4	228.12
2'	7.1	228.42
5'	6.7	228.82 ✓

1/4 No. side Juniper (E. 5th)

C.	6.8		228.72
2'	7.0	235.52	228.52
5'	6.5		229.02 ✓

Gutter No. side Juniper (E 5th.)

C.	6.4	229.12
2'	6.4	229.12
5'	6.0	229.52 ✓

Gutter So. side Juniper (W. 5th.)

C.	8.0	227.52
2'	8.1	227.42
5'	7.8	227.72 ✓

1/4 So. side Juniper (W. 5th.)

C.	7.8	227.72
2'	7.8	227.72
5'	7.4	228.12 ✓

Center of Juniper (W. 5th.)

C.	6.9	228.62
2'	7.2	228.32
5'	7.1	228.42 ✓

1/4 No. side Juniper (W. 5th)

b.		6.8	235.52	228.72	
2'		6.8		228.72	
5'		6.7		228.82	✓

Gutter No. side Juniper (W. 5th)

b.		6.2		229.32	
2'		6.4		229.12	
5'		6.6		228.92	✓
T.P.	9.36	0.94	243.94 ✓	234.58 ✓	

Gutter So. side Kalmia (W. 5th)

b.		4.3		239.64	
2'		4.2		239.74	
5'		3.9		240.04	✓

1/4 So. side Kalmia (W. 5th)

b.		4.1		239.84	
2'		4.2		239.74	
5'		3.8		240.14	✓

Center Kalmia (W. 5th)

b.		3.8	243.94	240.14	
2'		3.8		240.14	
5'		3.4		240.54	✓

1/4 No. side Kalmia (W. 5th)

b.		3.5		240.44	
2'		3.4		240.54	
5'		3.2		240.74	✓

Gutter No. side Kalmia (W. 5th)

b.		3.1		240.84	
2'		3.2		240.74	
5'		3.2		240.74	✓

Gutter So. side Kalmia (E. 5th)

b		3.8		240.14	
2'		3.8		240.14	
5'		3.3		240.64	✓

1/4 So. side Kalmia (E. 5th)

b.		3.4		240.54	

2'		3.4	243.94	240.54	
5'		2.9		241.04	✓
Center of Kalmia (E. 5th)					
b.		3.2		240.74	
2'		3.2		240.74	
5'		2.9		241.04	✓
1/4 So. side of Kalmia (E. 5th)					
b.		3.0		240.94	
2'		2.8		241.14	
5'		2.8		241.14	✓
Gutter So. side Kalmia (E. 5th)					
b.		2.7		241.24	
2'		2.7		241.24	
5'		2.5		241.44	✓
T.P.	7.40	1.28	250.06	242.66	✓
T.P. (A)	6.76	1.15	255.67	248.91	✓
Gutter So. side Laurel (E. 5th)					
b.	6.2	6.2		249.47	

2'		6.2	255.67	249.47	
5'		6.2		249.47	✓
1/4 So. side Laurel (E. 5th.)					
b.		5.9		249.77	
2'		5.9		249.77	
5'		6.0		249.67	✓
Center So. side Laurel (E. 5th)					
b		5.7		249.97	
2'		5.9		249.77	
5'		5.9		249.77	✓
1/4 No. side Laurel (E. 5th.)					
b.		5.4		250.27	
2'		5.6		250.07	
5'		5.6		250.07	✓
Gutter No. side Laurel (E. 5th)					
b.		5.3		250.37	
2'		5.2		250.47	
5'		5.2		250.47	✓

Gutter So. side Laurel (W. sh.)

b.	7.1	255.67	248.57
2'	7.2		248.47
5'	6.7		248.97 ✓

1/4 So. side Laurel (W. sh.)

b.	6.9		248.77
2'	7.0		248.67
5'	6.5		249.17 ✓

Center Laurel (W. sh.)

b.	6.8		248.87
2'	6.6		249.07
5'	6.2		249.47 ✓

1/4 No. side Laurel (W. sh)

b.	5.5		250.17
2'	5.5		250.17
5'	5.9		249.77 ✓

Gutter No. side Laurel (W. sh)

b	6.2		249.47

2'	6.3	255.67	249.37
5'	5.8		249.87 ✓

~~T.P.~~

T.P.(A)	6.77		255.68 ✓	248.91 ✓
P.P.	7.46	1.50	261.64 ✓	254.18 ✓

Gutter So. side Maple (W. side)

b.	4.7	256.94	
2'	4.7	256.94	
5'	4.4	257.24 ✓	

1/4 So. side Maple (W. side.)

b.	4.5	257.14	
2'	4.6	257.04	
5'	4.3	257.34 ✓	

Center Maple (W. side.)

b.	4.3	257.34	
2'	4.4	257.24	
5	4.1	257.54 ✓	

1/4 No. side Maple (W. 5th)

b.		4.2	261.64	257.44
	2'	4.2		257.44
	5'	3.8		257.84 ✓

Gutter No. side Maple (W. 5th)

b.		4.1		257.54
	2'	4.2		257.44
	5'	3.7		257.94 ✓

Gutter So. side Maple (E. 5th)

b.		3.9		257.74
	2'	3.9		257.74
	5'	3.8		257.84 ✓

1/4 So. side Maple (E. 5th)

b.		3.6		258.04
	2'	3.6		258.04
	5'	3.6		258.04 ✓

Center Maple (E. 5th)

b.		3.5		258.14

	2'	3.5	261.64	258.14
	5'	3.5		258.14 ✓

1/4 No. side Maple (E. 5th)

b.		3.4		258.24
	2'	3.3		258.34
	5'	3.3		258.34 ✓

Gutter No. side Maple (E. 5th)

b.		3.4		258.24
	2'	3.2		258.44
	5'	3.2		258.44 ✓
T.P.	10.47	1.67	270.44	259.97

Gutter So. side Nutmeg (W. 5th)

b.		7.5		262.94
	2'	7.8		262.64
	5'	7.6		262.84 ✓

1/4 So. side Nutmeg (W. 5th)

b.		6.9		263.54
	2'	7.3		263.14

5'		7.6	270.44	262.84 ✓
	Center Nutmeg (W, 5th)			
b.		6.5		263.94
2'		7.1		263.34
5'		6.8		263.64 ✓
	1/4 No. side Nutmeg (W, 5th)			
b.		6.5		263.94
2'		6.7		263.74
5'		6.4		264.04 ✓
	Gutter No. side Nutmeg (W, 5th)			
b.		6.7		263.74
2'		6.7		263.74
5'		6.2		264.24 ✓
	Gutter So. side Nutmeg (E. 5th)			
b.		6.8		263.64
2'		6.9		263.54
5'		7.1		263.34 ✓

	1/4 So. side Nutmeg (E. 5th)			
b.		6.6	270.44	263.84
2'		6.7		263.74
5'		6.9		263.54 ✓
	Center Nutmeg (E. 5th)			
b.		6.3		264.14
2'		6.4		264.04
5'		6.5		263.94 ✓
	1/4 No. side Nutmeg (E. 5th)			
b.		5.9		264.54
2'		6.1		264.34
5'		6.2		264.24 ✓
	Gutter No. side Nutmeg (E. 5th)			
b.		5.5		264.94
2'		5.8		264.64
5'		6.0		264.44 ✓
T.P.	7.82	1.70	276.56	268.74

Gutter So. side Olive (W. 5th)

b.	6.9	276.56	269.66
2'	7.0		269.56
5'	6.4		270.16 ✓

1/4 So. side Olive (W. 5th)

b.	6.7		269.86
2'	6.7		269.86
5'	6.3		270.26 ✓

Center of Olive (W. 5th)

b.	6.6		269.96
2'	6.5		270.06
5'	6.1		270.46 ✓

1/4 No. side Olive (W. 5th)

b.	6.5		270.06
2'	6.3		270.26
5'	5.9		270.66 ✓

Gutter No. side Olive (W. 5th)

b.	6.4		270.16

2'	6.4	276.56	270.16
5'	6.0		270.56 ✓

Gutter So. side Olive (E. 5th)

b.	5.6		270.96
2'	5.7		270.86
5'	6.0		270.56 ✓

1/4 So. side Olive (E.

b.	5.5		271.06
2'	5.6		270.96
5'	5.6		270.96 ✓

Center Olive (E. 5th)

b.	5.3		271.26
2'	5.4		271.16
5'	5.5		271.06 ✓

1/4 Olive (E. 5th)

b.	5.2		271.36
2'	5.2		271.36
5'	5.3		271.26 ✓

Gutter No side Olive (E. Sch.)

b.		5.1	276.56	271.46
2'		5.1		271.46
5'		5.2		271.36 ✓
T.P.	7.07	2.27	281.36 ✓	274.29 ✓
B.M.	Palm + Sch.	4.22		277.14

B.M.	4.22		281.46	277.24

Gutter So. side Palm (W.)

b.		6.4		275.06
2'		6.3		275.16
5'		5.9		275.56 ✓

1/4 So. side Palm (W.)

b.		6.2		275.26
2'		6.2		275.26
5'		5.8		275.66 ✓

Center Palm (W.)

b.		5.8		275.66

2'		5.9	281.46	275.56
5'		5.4		276.06 ✓

1/4 No. side Palm (W.)

b.		5.6		275.86
2'		5.7		275.76
5'		5.2		276.26 ✓

Gutter No. side Palm. (W.)

b.		5.5		275.96
2'		5.6		275.86
5'		5.4		276.06 ✓

Gutter So. side Palm (E.)

b.		5.9		275.56
2'		5.9		275.56
5'		5.8		275.66 ✓

1/4 So. side Palm (E.)

b.		5.5		275.96
2'		5.5		275.96
5'		5.5		275.96 ✓

Center Palm (E.)

b.		5.3	281.46	276.16
2'		5.3		276.16
5'		5.3		276.16 ✓

1/4 No. side Palm (E.)

b.		5.1		276.36
2'		5.1		276.36
5'		5.2		276.26 ✓

Gutter No side Palm (E.)

b.		5.1		276.36
2'		5.0		276.46
5'		5.0		276.46 ✓
T.P.	5.20	3.74	282.92	277.72

Gutter So. side Quince (W.)

b.		5.4		277.52
2'		5.4		277.52
5'		5.0		277.92 ✓

1/4 So. side Quince (W.)

b.		5.3	282.92	277.62
2'		5.3		277.62
5'		5.1		277.82 ✓

Center ~~So. side~~ Quince (W.)

b.		5.3		277.62
2'		5.2		277.72
5'		4.9		278.02 ✓

1/4 No. side Quince (W.

b.		5.2		277.72
2'		5.2		277.72
5'		5.0		277.92 ✓

Gutter No side Quince (W.)

b.		5.1		277.82
2'		5.2		277.72
5'		5.0		277.92 ✓

Gutter So. side Quince (E.)

b.		4.3		278.62

2'	4.3	282.92	278.62
5'	4.3		278.62 ✓

1/4 So. side Quince (E.)

b.	4.2	278.72
2'	4.3	278.62
5'	4.5	278.42 ✓

Center Quince (E.)

b.	4.2	278.72
2'	4.3	278.62
5'	4.6	278.32 ✓

1/4 No. side Quince (E.)

b.	4.1	278.82
2'	4.2	278.72
5'	4.5	278.42 ✓

Gutter No side Quince (E.)

b.	4.5	278.42
2'	4.5	278.42
5'	4.5	278.42 ✓

~~T.P.~~ 282.92

Gutter So. side Redwood (W.)

b.	4.3	278.62
2'	4.3	278.62
5	4.2	278.72 ✓

1/4 So. side Rw'd. (W.)

b.	4.3	278.62
2'	4.0	278.92
5'	4.0	278.92 ✓

Center Redwood (W.)

b.	4.2	278.72
2'	4.1	278.82
5'	3.9	279.02 ✓

1/4 No. side Redwood (W)

b.	4.2	278.72
2'	4.0	278.92
5'	3.8	279.12 ✓

Gutter No. side Redwood (W)

C.	4.1	282.92	278.82
2'	4.1		278.82
5'	3.9		279.02 ✓

Gutter So. side Redwood (E.)

C.	3.0		279.92
2'	3.1		279.82
5'	3.3		279.62 ✓

1/4 So. side Redwood (E.)

C.	3.1		279.82
2'	3.1		279.82
5'	3.3		279.62 ✓

Center of Redwood (E.)

C.	3.0		279.92
2'	3.0		279.92
5'	3.1		279.82 ✓

1/4 No. side Redwood (E.)

C.	3.1		279.82

2'	3.1	282.92	279.82
5'	3.1		279.82 ✓

Gutter No. side Redwood (E.)

C.	3.1		279.82
2'	3.1		279.82
5'	3.1		279.82 ✓
T.P.	1.17		281.75

N.E. Cor. Redwood + 5th. on Concrete Post, d'Hemecourt, Fortine, Davis

Oct. 31st 1902.

T.P.	3.42	285.17	281.75

No. line Redwood (E.)

C.	5.6		279.57
2'	5.4		279.77
5'	5.3		279.87

25' No. of Redwood (E.)

C.	5.6		279.57
2'	5.5		279.67

5'	5.4	285.17	279.77

50' No. of Redwood (E.)

b.	5.5	279.67
2'	5.2	279.97
5'	5.2	279.97

75' No. of Redwood (E.)

b.	5.4	279.77
2'	5.2	279.97
5'	5.2	279.97

100' No. of Redwood (E.)

b.	5.2	279.97
2'	5.3	279.87
5'	5.2	279.97

125' No. of Redwood (E.)

b.	5.3	279.87
2'	5.2	279.97
5'	5.2	279.97

150' No. of Redwood (E.)

b.	5.0	285.17	280.17
2'	5.0		280.17
5'	5.2		279.97

175' No. of Redwood (E.)

b.	4.8	280.37
2'	5.0	280.17
5'	5.1	280.07

200' No. of Redwood (E.)

b.	5.0	280.17
2'	5.0	280.17
5'	5.1	280.07

225' No. of Redwood (E.)

b.	4.6	280.57
2'	4.8	280.37
5'	4.9	280.27

250' No. of Redw (E.)

b.	4.6	280.57

2'	4.7	285.17	280.47
5'	4.8		280.37

275' No. of Redwood (E.)

b.	4.6		280.57
2'	4.7		280.47
5'	4.8		280.37

So. line of Spruce (E.)

b.	4.5		280.67
2'	4.6		280.57
5'	4.7		280.47

No. line of Redwood (W.)

b.	6.4		278.77
2'	6.3		278.87
5'	6.2		278.97

25' No. of Redwood (W.)

b.	6.5		278.67
2'	6.3		278.87
5'	6.0		279.17

50' No. of Redwood (W.)

b	6.4	285.17	278.77
2'	6.2		278.97
5'	6.0		279.17

75' No. of Redwood (W.)

b.	6.4		278.77
2'	6.3		278.87
5'	6.1		279.07

100' No. of Redwood (W.)

b.	6.3		278.87
2'	6.1		279.07
5'	6.0		279.17

125' No. of Redwood (W.)

b.	6.3		278.87
2'	6.1		279.07
5'	5.9		279.27

150' No. of Redwood (W.)

b.	6.2		278.97

2'		6.0	285.17	279.17
5'		5.9		279.27
	175' No. of Redwood (W.)			
b.		6.1		279.07
2'		6.0		279.17
5'		5.9		279.27
	200' No. of Redwood (W.)			
b.		5.9		279.27
2'		5.9		279.27
5'		5.7		279.47
	225' No. of Redwood (W.)			
b.		5.8		279.37
2'		5.8		279.37
5'		5.6		279.57
	250' No. of Redwood (W.)			
b		5.9		279.27
2'		5.7		279.47
5'		5.6		279.57

	275' No. of Redwood (W.)			
b.		5.7	285.17	279.47
2'		5.6		279.57
5'		5.4		279.77
	So. line of Spruce (W.)			
b.		5.4		279.77
2'		5.5		279.67
5'		5.4		279.77
	Cent. So. side Spruce (W.			
b		5.5		279.67
2'		5.4		279.77
5		5.3		279.87 ✓
	1/4 So. side spruce (W.)			
b.		5.5		279.67
2'		5.4		279.77
5'		5.3		279.87 ✓
	Center Spruce (W.)			
b.		5.2		279.97

2'		5.3	285.17	279.87
5'		5.3		279.87 ✓
	1/4 No. side Spruce. (W.)			
b.		5.1		280.07
2'		5.2		279.97
5'		5.2		279.97 ✓
	Gutter No. side spruce. (W.)			
b.		5.3		279.87
2'		5.4		279.77
5'		5.2		279.97 ✓
	Gutter So. side spruce (E.)			
b.		4.5		280.67
2'		4.6		280.57
5'		4.7		280.47 ✓
	1/4 So. side spruce (E.)			
b.		4.5		280.67
2'		4.5		280.67
5'		4.6		280.57 ✓

	Center of Spruce (E.)			
b.		4.4	285.17	280.77
2'		4.5		280.67
5'		4.7		280.47 ✓
	1/4 No. side spruce (E.)			
b.		4.4		280.77
2'		4.5		280.67
5'		4.6		280.57 ✓
	Gutter No. side Spruce (E.)			
b.		4.5		280.67
2'		4.6		280.57
5'		4.7		280.47 ✓
	No. side of Spruce (E.)			
b.		4.5		280.67
2'		4.6		280.57
5'		4.6		280.57 ✓
	25' No. of Spruce (E.)			
b.		4.4		280.77

2'	4.6	285.17	280.57
5	4.6		280.57

50' No. of Spruce (E.)

b.	4.5		280.67
2'	4.5		280.67
5'	4.6		280.57

75' No. of spruce (E)

b.	4.2		280.97
2'	4.3		280.87
5'	4.5		280.67

100' No. of Spruce (E.)

b.	4.1		281.07
2'	4.2		280.97
5'	4.2		280.97

125' No. of Spruce (E.)

b.	4.0		281.17
2'	4.1		281.07
5'	4.1		281.07

150' No. of Spruce (E.)

b.	4.0	285.17	281.17
2'	4.0		281.17
5'	4.1		281.07

175' No of Spruce (E.)

b.	3.9		281.27
2'	4.0		281.17
5'	4.1		281.07

200' No. of Spruce (E.)

b.	3.9		281.27
2'	3.9		281.27
5'	4.0		281.17

225' No. of Spruce (E.)

b.	3.7		281.47
2'	3.8		281.37
5'	4.0		281.17

250' No. of Spruce (E.)

b.	3.7		281.47

2'	3.7	285.17	281.47
5'	3.8		281.37

275' No. of Spruce (E.)

b.	3.7		281.47
2'	3.5		281.67
5'	3.6		281.57

So. line of Thom (E)

b.	3.4		281.77
2'	3.5		281.67
5'	3.5		281.67 ✓

No. line of Spruce (W.)

b.	5.2		279.97
2'	5.3		279.87
5'	5.2		279.97

25' No. of Spruce (W.)

b.	5.1		280.07
2'	5.2		279.97
5'	5.1		280.07

50' No. of Spruce (W.)

b.	5.3	285.17	279.87
2'	5.2		279.97
5'	5.1		280.07

75' No. of Spruce, (W.)

b.	5.2		279.97
2'	5.1		280.07
5'	5.0		280.17

100' No. of Spruce (W.)

b.	5.0		280.17
2'	5.0		280.17
5'	4.9		280.27

125' No. of Spruce (W.)

b.	4.8		280.37
2	4.9		280.27
5'	4.8		280.37

	150'	No. of Spruce W,		
b		4.8	285.17	280.37
2'		4.8		280.37
5'		4.6		280.57
	175'	No. of Spruce (W.)		
b,		4.8		280.37
2'		4.6		280.57
5'		4.5		280.67
	200'	No. of Spruce (W.)		
b,		4.5		280.67
2'		4.5		280.67
5'		4.2		280.97
	225'	No. of Spruce (W.)		
b.		4.4		280.77
2'		4.3		280.87
5'		4.3		280.87
	250'	No. of Spruce (W.)		
b,		4.4		280.77

2'		4.2	285.17	280.97
5'		4.2		280.97
	275'	No. of Spruce (W.)		
b,		4.2		280.97
2'		4.1		281.07
5'		4.1		281.07
		So. line of Thorn (W,		
b,		3.9		281.27
2'		4.0		281.17
5'		4.0		281.17
T.P.	6.11	3.43	287.85	281.74
		Gutter So. side Thorn (W.)		
b,		6.6		281.25
2'		6.7		281.15
5		6.7		281.15
		1/4 So. side Thorn		
b,		6.5		281.35
2'		6.6		281.25

5'	6.6	287.85	281.25 ✓
	Center of Thorn (W.)		
b	6.4		281.45
2'	6.5		281.35
5'	6.5		281.35 ✓
	1/4 No. side Thorn (W.)		
b.	6.4		281.45
2'	6.4		281.45
5'	6.5		281.35 ✓
	Gutter No. side Thorn (W.)		
b.	6.4		281.45
2'	6.4		281.45
5'	6.4		281.45 ✓
	Gutter So. side Thorn (E.)		
b.	5.9		281.95
2'	5.8		282.05
5'	6.0		281.85 ✓

	1/4 So. side Thorn (E.)		
b.	5.5	287.85	282.35
2'	5.5		282.35
5'	5.6		282.25 ✓
	Center of Thorn (E.)		
b.	5.8		282.05
2'	5.8		282.05
5'	5.8		282.05 ✓
	1/4 No. side Thorn (E.)		
b	5.7		282.15
2'	5.7		282.15
5'	5.7		282.15 ✓
	Gutter No. side Thorn (E.)		
b.	5.8		282.05
2'	5.7		282.15
5'	5.7		282.15 ✓
	No. line of Thorn (E.)		
b.	5.6		282.25

2'	5.7	287.85	282.15
5'	5.7		282.15

25' No. of Thorn (E.)

b.	5.2		282.65
2'	5.5		282.35
5'	5.5		282.35

50' No. of Thorn (E.)

b.	5.2		282.65
2'	5.3		282.55
5'	5.2		282.65

75' No. of Thorn (E.)

b.	5.0		282.85
2'	5.1		282.75
5'	4.9		282.95

100' No. of Thorn (E.)

b.	4.6		283.25
2'	4.9		282.95
5'	4.7		283.15

125' No. of Thorn (E.)

b.	4.2	287.85	283.65
2'	4.6		283.25
5'	4.4		283.45

150' No. of Thorn (E.)

b.	3.7		284.15
2'	4.1		283.75
5'	4.1		283.75

175' No. of Thorn (E.)

b.	3.4		284.45
2'	3.7		284.15
5'	3.6		284.25

200 No. of Thorn (E.)

b.	3.2		284.65
2'	3.5		284.35
5'	3.4		284.45

225 No. of Thorn (E.)

b.	2.8		285.05

2'		3.1	287.85	284.75
5'		3.2		284.65
	250' No. of Thorn (E)			
b.		2.6		285.25
2'		2.8		285.05
5'		2.9		284.95
	275' No. of Thorn (E.)			
b.		2.2		285.65
2'		2.4		285.45
5		2.5		285.35
	So. line of Upro (E.)			
b.		2.2		285.65
2'		2.1		285.75
5'		2.3		285.55 W
	No. line of Thorn (W.)			
b.		6.4		281.45
2'		6.3		281.55
5'		6.4		281.45

	25' No. of Thorn. (W.)			
b.		6.3	287.85	281.55
2'		6.1		281.75
5'		6.0		281.85
	50' No. of Thorn (W.)			
b.		6.1		281.75
2'		6.0		281.85
5'		5.8		282.05
	75' No. of Thorn (W.)			
b.		5.8		282.05
2'		5.6		282.25
5'		5.6		282.25
	100' No. of Thorn (W.)			
b.		5.5		282.35
2'		5.3		282.55
5'		5.2		282.65
	125' No. of Thorn (W)			
b.		5.1		282.75

2'	5.0	287.85	282.85
5'	4.8		283.05
150' No. of Thorn (W.)			
b.	4.8		283.05
2'	4.6		283.25
5'	4.5		283.35
175' No. of Thorn (W.)			
b.	4.6		283.25
2'	4.5		283.35
5'	4.4		283.45
200' No. of Thorn (W.)			
b.	4.3		283.55
2'	4.2		283.65
5'	4.2		283.65
225' No. of Thorn (W.)			
b.	3.9		283.95
2'	3.9		283.95
5'	3.9		283.95

250' No. of Thorn (W.)			
b.	3.6	287.85	284.25
2'	3.7		284.15
5'	3.7		284.15
275' No. of Thorn (W.)			
b.	3.4		284.45
2'	3.3		284.55
5'	3.2		284.65
So. line of Upan. (W.)			
b.	3.1		284.75
2'	3.1		284.75
5'	3.0		284.85 ✓
Gutter So. line Upan. (W.)			
b.	3.1		284.75
2'	3.0		284.85
5'	2.9		284.95 ✓
1/4 So. line Upan. (W.)			
b.	2.9		284.95

2'		2.9	287.85	284.95
5'		2.9		284.95 ✓
Center line Upas (W.)				
b.		2.9		284.95
2'		2.9		284.95
5'		2.8		285.05 ✓
1/4 No. side Upas. (W)				
b.		2.8		285.05
2'		2.8		285.05
5'		2.8		285.05 ✓
Gutter No. side Upas (W.)				
b.		2.9		284.95
2'		2.8		285.05
5'		2.7		285.15 ✓
Gutter So. side Upas (E.)				
b.		2.2		285.65
2'		2.1		285.75
5'		2.3		285.55 ✓

1/4 So. side Upas. (E.)				
b.		2.1	287.85	285.75
2'		2.1		285.75
5'		2.2		285.65 ✓
Center Upas. (E.)				
b.		2.1		285.75
2'		2.1		285.75
5'		2.2		285.65 ✓
1/4 No. side Upas. (E)				
b.		2.1		285.75
2'		2.2		285.65
5'		2.3		285.55 ✓
Gutter No. side Upas (E.)				
b.		2.4		285.45
2'		2.4		285.45
5'		2.4		285.45 ✓
T.P.	1.28	0.87	288.26	286.98

No. line of Upas, (E. 5th

b,	2.4	288.26	285.86	✓
2'	3.0		285.26	✓
5'	3.0		285.26	✓

820' So. of Brooks (E,

b,	2.9		285.36	✓
2'	3.2		285.06	✓
5'	3.0		285.26	✓

805' So. of Brooks (E.

b,	3.1		285.16	✓
2'	3.3		284.96	✓
5'	3.2		285.06	✓

780' So. of Brooks (E.

b.	3.4		284.84	✓
2'	3.4		284.84	✓
5'	3.4		284.84	✓

755' So. of Brooks (E

b.	3.2		285.06	✓

2'	3.4	288.26	284.84	✓
5'	3.3		284.96	✓

730' So. of Brooks.

b,	3.5		284.76	✓
2'	3.6		284.66	✓
5'	3.5		284.76	✓

705' So. of Brooks

b	3.5		284.76	✓
2'	3.7		284.56	✓
5'	3.8		284.46	✓

680' So. of Brooks (E. 5th

b,	3.6		284.66	✓
2'	3.8		284.46	✓
5'	3.8		284.46	✓

660' So. of Brooks. (E.

b	3.8		284.46	✓
2'	4.2		284.06	✓
5'	4.2		284.06	✓

	2'	640' So. of Brooks. (E		
b.	5'	4.3	288.26	283.96 ✓
	2'	4.4		283.86 ✓
	5'	4.4		283.86 ✓
		620' So. of Brooks. (E.		
b.		4.3		283.96 ✓
	2'	4.5		283.76 ✓
	5'	4.4		283.86 ✓
		600' So. of Brooks. (E		
b.		4.4		283.86 ✓
	2'	4.7		283.56 ✓
	5'	4.6		283.66 ✓
		580.5' So. of Brooks (E.		
b.		4.7		283.56 ✓
	2'	4.9		273.36 ✓
	5'	4.6		283.66 ✓
		555.5' So. of Brooks (E.)		
b.		4.9		273.36 ✓

	2'	4.8	288.26	283.46 ✓
	5'	4.8		283.46 ✓
		530.5 So. of Brooks. (E, 5th)		
b.		5.2		283.06 ✓
	2'	5.4		282.86 ✓
	5'	5.1		283.16 ✓
		505.5' So. of Brooks (E. 5th)		
b.		5.1		283.16 ✓
	2'	5.5		282.76 ✓
	5'	5.3		282.96 ✓
		480.5' So. of Brooks. (E. 5th)		
b.		5.3		282.96 ✓
	2'	5.5		282.76 ✓
	5'	5.5		282.76 ✓
		455.5' So. of Brooks (E. 5th)		
b		5.4		282.86 ✓
	2'	5.8		282.46 ✓
	5'	5.7		282.56 ✓

430.5' So. of Brooks (E.)

b.	5.7	288.26	282.56 ✓
2'	5.7		282.56 ✓
5'	5.7		282.56 ✓

405'5. So. of Brooks. (E.)

b.	5.9		282.36 ✓
2'	5.8		282.46 ✓
5'	5.8		282.46 ✓

380.5' So. of Brooks (E. 5th)

b.	6.4		281.86 ✓
2'	6.5		281.76 ✓
5'	6.4		281.86 ✓

350' So. of Brooks (E. 5th.)

b.	6.4		281.86 ✓
2'	6.9		281.36 ✓
5'	6.7		281.56 ✓

325' So. of Brooks. (E. 5th)

b.	6.7		281.56 ✓

2'	7.0	288.26	281.26 ✓
5'	6.9		281.36 ✓

No. line of Upas - (West 5th.)

b	3.2		285.06 ✓
2'	3.2		285.06 ✓
5'	3.1		285.16 ✓

830' So. of Brooks. (W.)

b.	3.3		284.96 ✓
2'	3.5		284.76 ✓
5'	3.4		284.86 ✓

805' So. of Brooks. (W.)

b.	3.6		284.66 ✓
2'	3.6		284.66 ✓
5'	3.5		284.76 ✓

780' So. of Brooks. (W.)

b.	3.8		284.46 ✓
2'	3.7		284.56 ✓
5'	3.7		284.56 ✓

755' So. of Brooks (W.

b.		4.0	288.26	284.26 ✓
	2'	3.9		284.36 ✓
	5'	3.9		284.36 ✓

730' So. of Brooks. (W.

b.		4.0		284.26 ✓
	2'	3.9		284.36 ✓
	5'	3.8		284.46 ✓

705' So. of Brooks (W.

b.		4.1		284.16 ✓
	2'	3.9		284.36 ✓
	5'	3.8		284.46 ✓

680' So. of Brooks. (W.)

b.		4.1		284.16 ✓
	2'	3.9		284.36 ✓
	5'	3.9		284.36 ✓

660' So. of Brooks. (W.)

b.		4.0		284.26 ✓

	2'	4.1	288.26	284.16 ✓
	5'	4.1		284.16 ✓

640.' So. of Brooks

b.		4.1		284.16 ✓
	2'	4.1		284.16 ✓
	5'	4.2		284.06 ✓

620' So. of Brooks.

b.		4.5		283.76 ✓
	2'	4.5		283.76 ✓
	5'	4.4		283.86 ✓

600' So. of Brooks

b.		4.7		283.56 ✓
	2'	4.7		283.56 ✓
	5	4.5		283.76 ✓

580, 5' So. Brooks (W.

b.		5.0		283.26 ✓
	2'	4.9		283.36 ✓
	5'	4.8		283.46 ✓

555.5' So. of Brooks (W.)

b.	5.1	288.26	283.16 ✓
2'	5.1		283.16 ✓
5'	4.9		283.36 ✓

530.5' So. of Brooks (W.)

b.	5.3	282.96 ✓
2'	5.2	283.06 ✓
5'	5.0	283.26 ✓

505.5' So. of Brooks (W.)

b.	5.4	282.86 ✓
2'	5.4	282.86 ✓
5'	5.3	282.96 ✓

480.5' So. of Brooks (W.)

b.	5.7	282.56 ✓
2'	5.5	282.76 ✓
5'	5.4	282.86 ✓

Prop
lemb —
12 N. of 6. —
5 " " "
6,
5 S. " —
14 " "
lemb

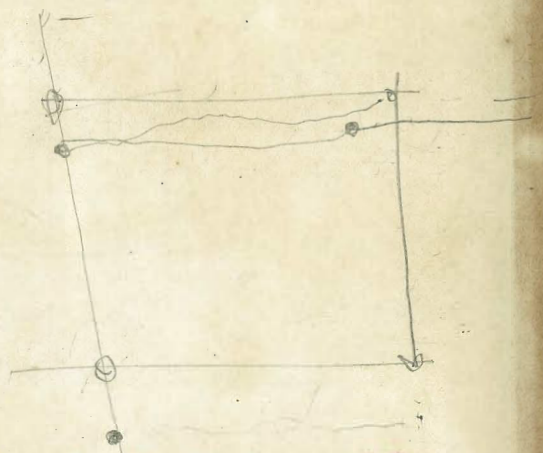


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Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	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.

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