

SEWERAGE.
Miscellaneous Notes.

2

F. B. 691

691

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	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44½	39	91	59	137½
20	46½	40	93½	60	140

31.76
47.640
4.776

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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
0		0		0		0	
4	0-24	11	1-88	18	5-14	25	10-54
5	0-38	12	2-24	19	5-76	26	11-26
6	0-55	13	2-63	20	6-42	27	12-24
7	0-76	14	3-06	21	7-11	28	13-37
8	0-98	15	3-53	22	7-85	29	14-34
9	1-24	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47	35	22-07

Datum line of levels of
San Diego is +6.0 with refer-
ence to mean tide

Ordinary tides rise & fall 4.5 ft.
Extremes " " " 9.0 "
Extreme H.W. is -1.5 ll. in
reference to said datum line

126

11/11
A.H.

2

B.M's on 19th st

Sta	+	HD	-	Elev	
B.M.	10.18	93.21		83.03	
#	1.92	83.24	11.29	81.92	
#	1.05	72.38	11.91	71.33	
B.M.			2.70	69.68	
#	0.46	60.55	11.89	60.49	
#	7.94	64.31	4.58	56.37	
B.M.			3.44	60.47	60.50
#	11.74	75.36	0.69	63.62	
B.M.			1.70	73.66	73.67
B.M.			5.40	69.96	
#	11.93	86.54	0.75	74.61	
#	11.75	97.54	0.75	85.79	
B.M.			7.09	90.45	90.46
#	11.44	108.28	0.70	92.84	
#	11.37	114.96	0.69	107.59	
#	11.54	129.84	0.70	118.26	
#	11.57	135.83	1.54	124.26	
#	11.47	150.60	0.70	139.13	
#	11.63	161.31	0.92	149.69	
#	7.06	167.46	0.91	160.40	
B.M.			4.68	162.78	

1986 B NB Iron pin 1'

1988 19 Set B.M. at HD 93.21 SW side post

1988 C SW side post

1988 B NW side in post

1988 A SW side post

2088 A SE top of post

2188 A SW side post

2388 B S/H tal

Febr 1888

H H
H H

Levels 21 to 23 on A

Stc	+	Hd	-	Elev
Bm	11.41	101.86		90.45
#	10.97	112.15	0.68	101.14
#	10.59	121.79	0.75	111.40
#	11.31	132.40	0.70	121.09
#	8.36	140.04	0.72	131.28
#	10.85	150.19	0.70	139.84
Bm			8.61	142.58
#	10.76	160.23	0.72	149.47
#	7.69	166.85	0.97	159.26
Bm			4.17	162.78
Bm	6.03	167.77	5.21	161.74
Bm			2.83	164.94

21 & A

22 & B

23 & B

28 & 25

BMs on Indian above Ash

Str	+	HD	-	Clev	BB
Bm	4.965	31.333		22.364	
TP	7.395	37.934	0.74	30.558	
Bm			3.26	34.679	34.67
TP	5.80	42.183	1.555	36.383	
Bm			7.26	34.923	
TP	6.36	47.59	0.95	41.233	
Bm			0.64	46.91	
TP	4.77	51.16	1.20	46.39	47.23
Bm#	4.65	51.64	4.13	47.63	47.03
Bm#	5.60	55.82	1.46	50.22	50.21
Bm#	4.11	50.14	3.75	46.07	
Bm#	3.69	50.46	3.01	47.17	
Bm			4.21	46.63	
#	1.90	40.80	11.96	38.90	
Bm			5.73	31.07	+
Bm	9.72	40.92		31.20	
#	11.85	50.31	2.46	38.46	
			3.54	46.77	J
Bm	3.07	50.35	3.03	47.28	H
	6.07	52.25	4.17	46.78	H
			1.93	50.32	J

India & Beech NW spk post

India & Cedar

India & Cedar NW spk post

India & Date SE spk post

India & Fir NW spk post

India & Grape SW spk post

India & Hawthorn NW spk top post

India & Ivy SW spk top post

India & Juniper in pit

rocks near NW cor

Archie & Juniper

$$\begin{array}{r} 81.16 \\ 41.3 \\ \hline 47.03 \end{array}$$

B.M. on base

Stc	+	H ₂	-	Clv
B.M.	11.76	28.64		16.88
#	10.28	38.09	0.53	27.81
B.M.			9.07	29.02
#	10.03	47.18	0.54	37.15
#	6.10	51.81	1.47	45.71
B.M.			1.66	50.15

Group & Arctic

Group & Indian

Bms on India

Bm	8.98	31.35		22.37
#	11.90	41.33	1.72	29.63
Bm	8.36	43.31	6.58	34.95
#	5.37	47.89	0.79	42.52
Bm			0.85	47.04
#	5.44	51.16	2.61	45.28
Bm#	4.84	57.48	4.16	47.00
Bm#	1.00	51.26	1.82	50.26
Bm#	4.05	50.16	5.15	46.11
Bm	0.83	48.03	2.96	47.20
			1.34	46.64

India & Cedar NW 1/4 1st

India & Cedar SE 1/4 1st

India & Cedar NW 1/4 1st

India & Cedar SW 1/4 1st

India & Cedar SW 1/4 1st

India & Cedar SW 1/4 1st

A Line

Stn	+	H ₂ O	-	Cl ₂
BM	9.40	27.20		17.40
#	4.93	33.36	0.77	26.43
#	8.77	42.92	1.21	34.15
BM			7.53	35.39
#	8.45	50.64	1.08	41.54
BM			3.67	47.02
#	5.13	49.67	0.15	44.54
#	9.87	47.30	6.24	43.43
BM			0.23	47.07

Arctic & Fir

Indian & Fir

Gate & Indian

B. M. 12th St

Stn	+	W	-	Blu
Blm	7.92	17.32		9.40
#	4.64	25.06	1.94	16.34
Blm			3.38	21.64
#	11.64	35.41	0.93	24.13
Blm#	7.57	42.69	0.69	35.12
#	4.29	50.21	0.77	41.92
Blm			6.22	43.99
Blm			0.11	50.10
Blm	7.62	24.45		17.23
Blm#	6.74	29.15	2.49	22.37
TP	6.93	33.61	2.47	26.64
TP	4.31	35.72	2.20	31.41
Blm			1.04	34.64
#	6.73	39.54	2.91	32.81
Blm			4.60	34.99
#	9.24	45.65	3.13	36.41
#	5.39	49.27	1.77	43.89
Blm			2.26	47.01

12th St SW end by dt

12th St SE side fork

12th St SW end by dt

12th St NW side fork

A. re. to & A. sh

12th St & India side fork

India & Cedar NW side fork

India & Dale SE side fork

Bins on 1st N Ash

Str	+	HJ	-	Clear B/B
Bm	7.67	66.33		58.66
#	8.78	72.14	2.92	63.41
Bm			5.48	66.71 66.74
#	9.36	74.03	2.52	69.67
Bm			7.12	71.91
Bm			4.72	74.31 74.32
#	11.56	89.56	1.03	78.00
#	10.83	98.57	1.89	87.72
Bm			6.77	91.90 91.92
#	11.40	109.60	0.77	97.80
#	9.03	117.71	0.92	104.69
Bm#	10.47	122.34	5.94	111.97
#	11.82	133.40	0.76	121.58
#	11.38	144.04	0.74	132.66
Bm			7.00	137.04
#	4.90	147.33	1.11	142.93
Bm			8.59	138.74
#	11.39	158.02	0.70	146.63
#	11.81	169.07	0.76	157.26
Bm			4.15	164.92
#	12.00	180.22	0.55	168.22

Beeli

1st & Cedar High St.
Back

1st & White N.C. apt. feet

Clm & 1st & C High St.

1st & Pine St apt. feet

1st & Grape N.W. apt. east

1st - Hawthorn NW. apt. feet

BMs on 1st N Ash

Sta	+	HO	-	Elev
-----	---	----	---	------

#		180.22		
#	11.49	190.98	0.73	179.49
Bm	10.42	200.89	0.51	190.47
#	8.42	207.82	1.49	199.40
Bm			3.17	204.65

1st & 2nd est post

1st & 2nd

Bm on Jumper St.

Sta	+	H ₂	-	Elev
Bm	11.16	29.19		18.03
TP	11.24	39.74	0.73	28.76
BM			9.56	31.18
#	11.14	50.07	0.95	38.89
Bm			3.54	46.53
#	8.19	57.12	1.14	48.93
#	6.64	66.34	3.42	53.70
Bm			3.34	57.04
#	10.31	69.94	0.75	59.63
#	10.03	78.48	1.09	64.85
Bm			6.54	72.20
Bm	66.4	211.72		204.74
Bm			4.82	207.60
Bm	10.59	214.70		204.31
Bm			6.09	214.61
#	11.42	225.65	0.87	213.83
#	11.27	236.19	0.73	224.92
Bm			4.22	231.97
Bm			5.24	230.91

Jumper & India NW Iron gas
pipe 1" from cor. witness.

Jumper & bol SE cor plug

Jumper & State.

1st Jumper

2nd & Jumper ssk plug 18" cor.

3rd & Jumper

4th & Jumper & C ssk post

5th & Jumper & C ssk tel

5th St B. Ms

Sto	+	HI	-	Clw
#		236.19		
#	10.39	245.84	0.70	235.49
Bm			3.92	242.06
#	7.35	251.67	1.56	249.32
Bm#	9.94	259.66	2.00	249.67
Bm#	7.36	265.79	1.23	254.43
Bm#	9.05	272.94	1.90	263.49
Bm#	6.61	277.82	1.73	271.21
Bm#	6.63	282.68	1.77	276.05
Bm			3.13	279.55

4th N Juniper

Bm	10.15	224.76		214.61
#	11.19	235.20	0.75	224.01
Bm#	10.67	243.64	2.23	232.97
#	9.44	252.34	0.74	242.90
Bm			7.61	244.77
#	10.83	262.09	1.12	251.26
Bm			7.24	254.85
#	5.10	266.50	0.69	261.40
Bm			3.43	262.67
Bm			2.59	263.91

5th & Kalma S & S pk tel.

6th & Laurel S & S pk tel

5th & Maple N & S pk tel.

5th & Nutmeg S & S pk ^{new} tel

5th & Olive S & S pk tel

5th & F - - S & S pk tel

5th & Bunker S & S pk tel

4th & Juniper

Kalma & 4th N & S pk tel

4th & Laurel N & S pk tel.

4th & Maple N & S pk tel

4th & Nutmeg S & W pk tel

5th & Nutmeg

81
3rd St N. Juniper

Sto	+	HD	-	Clear
Bm	1.43	264.50		262.67
Bm			7.46	257.04
Bm			7.64	256.96
#	0.85	253.99	11.96	253.14
Bm			3.64	250.35
#	0.86	243.48	11.42	242.57
Bm			6.23	237.20
#	0.72	235.78	8.57	236.06
Bm			6.58	229.20
#	1.27	225.61	11.44	224.34
#	21.6	216.25	11.52	214.09
Bm			11.95	204.30

3rd & Nutting & C spt post
3rd & " plug block

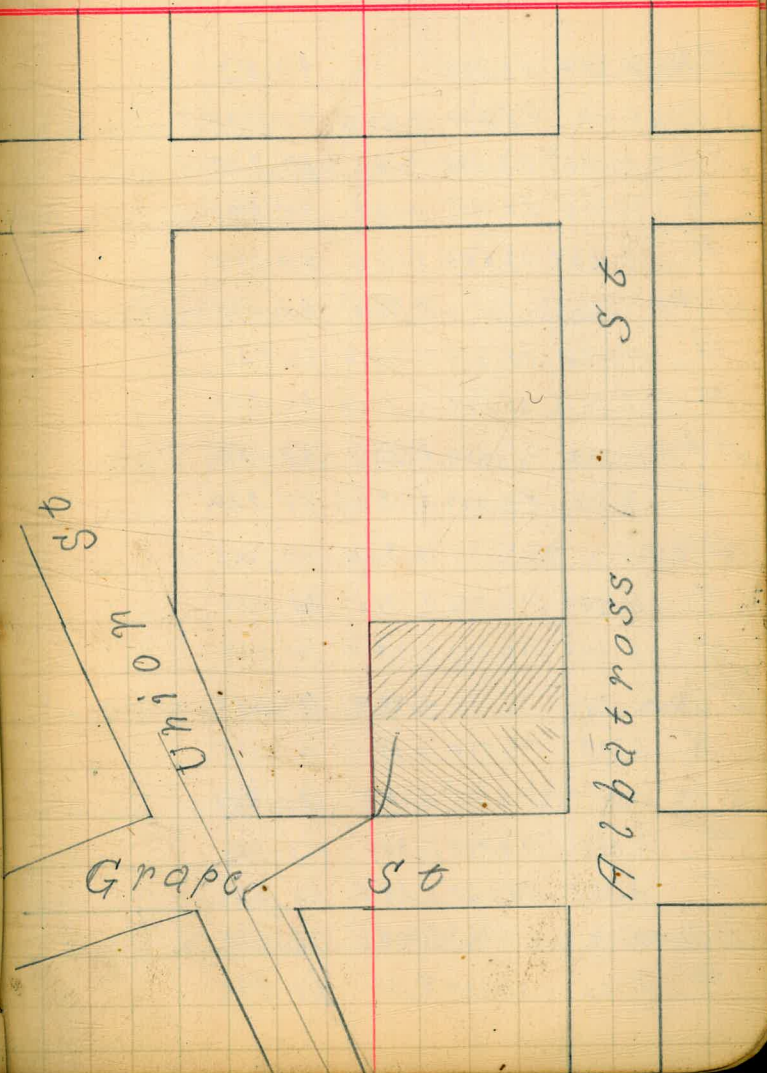
3rd & Maple NE spt post

3rd & Laurel SW spt tel

3rd & Rainier N. W. plug. S' W

3rd & I unipll

Sta	+	H ₂ O	-	Cl ₂	Grade	cut
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B Mrs on Indian St

North of Lumber

Sta	+	HD	-	Clear
BM	2.659	42.189		46.53
BM#	4.27	45.597	7.862	41.327
BM#	11.90	49.697	7.90	37.797
#	10.85	59.657	0.89	48.807
#	9.552	67.549	1.66	57.997
BM			6615	60.934
#	11.045	77.868	0.726	66.823
#	7.912	84.883	0.897	76.971
BM#	11.135	95.321	0.727	94.156
#	7.04	95.569	6.562	88.929
BM			1.306	94.663
#	11.962	107.016	0.915	95.054
#	8.246	119.175	6.087	107.929
BM			0.918	108.267
#	1.659	119.724	2.11	107.065
BM			6.84	101.884
#	11.949	118.709	1.964	106.760
#	2.197	118.623	3.283	116.426
BM			7.885	110.738
#	1.815	111.607	8.481	109.792

10' SW cor

India & Walnut SW corner
 India & Laurel st building 100'
 E cor. S.W

India & Laurel NE corner

India & Maple SE corner

India & Nutmeg S.B.P. 5' cor. SE

India & Olive S.B.P. 5' NE cor.

India & Palm S.B.P. 5' SE cor.

India & Quince S.B.P. 5' SE cor.

BMs on India N of

Sta + Hgt - Elev

111.607

BM# 1.690 109.005 4.292 107.315

0.763 99.366 10.402 98.603

4.530 91.914 11.442 87.384

9.535 93.319 6.150 95.784

BM# 7.457 87.462

3.532 93.584 5.267 90.052

2.429 86.461 9.552 84.032

BM# 8.130 78.731

BM# 8.452 86.928 8.545 78.476

7.944 90.652 4.270 92.654

7.706 95.397 2.961 87.691

BM# 1.303 94.094 + +

4.123 90.914 8.706 86.691

7.200 93.669 4.545 86.469

BM# 6.260 87.489

0.945 82.964 11.65 82.019

2.895 70.634 9.335 73.629

BM# 4.820 71.329 10.020 66.504

3.268 67.648 6.964 64.360

11.332 77.698 1.282 66.366

Dumper

India & Redwood S. C. P. 5' SE cor

India & Spruce S. C. P. 5' SE cor

India & Juniper N.W. 1/4 top post
India & Fir SW 1/4 top post

India & Fir S. C. P. 1' SE cor

India & Vine SW 1/4 top post

India & Willow S.W. 1/4 5' SW cor

B.M's on Indian No of Dumps

Sta + HD - Elev

B.M.	77.694	10.130	67.568
#	9.880	86.846	0.732
B.M.		4.242	82.564
#	3.560	86.561	3.845
B.M.		4.614	81.347
#	10.883	96.504	0.940
#	11.164	106.963	0.709
#	10.682	116.804	0.841
B.M.		2.168	114.636

India & Chalmer SW, spike post

India & Winder NW, spike post

India & Price SW, spike post

India & McKee SW, spike post

to high levels on India St from Mc Kee South.

Sta + H₂ - Elev

Bm 1.89 118.53 114.64

1.03 105.88 11.64 105.85

2.09 96.53 11.74 95.14

Bm 14.58 81.95

Bm 0.51 83.07 13.97 83.56

1.41 73.20 11.68 71.39

Bm 5.64 67.56

6.58 78.66 1.12 72.08

Bm 12.17 68.49

11.36 89.31 0.71 77.95

Bm 1.90 87.41

8.14 96.05 1.40 87.91

Bm 1.96 94.09

3.87 44.64 4.14 84.87

Bm 10.20 78.78

Bm 9.94 78.74

Bm 8.57 103.46 95.09

1.78 93.57 11.57 91.89

4.30 84.24 8.29 85.38

~~10.20 79.44~~

India & Mc Kee

Pierce St

Winder St

Chalmer St

Willow St

Vine St

Maple St

Johnson St

Success St

Maple St

Check Levels on Indian

Sta	+	HL	-	Alto
Bom	10.47	84.95		78.48
#	11.21	88.77	1.35	87.56
			4.67	94.10
Bom	9.96	88.44		78.48
Bom			9.71	78.73
#	10.94	98.17	1.21	87.23
Bom			10.70	97.47
#	12.06	109.33	0.90	97.27
Bom#	7.72	115.04	2.47	107.32
Bom#	3.61	114.35	4.30	110.74
#	5.02	110.94	8.43	105.92
Bom			9.05	101.89
Bom			2.67	118.27
#	1.42	108.64	3.72	107.22
#	2.19	102.60	8.23	100.41
Bom			7.93	94.67
#	1.17	92.07	11.70	90.90
Bom			7.90	94.17
#	1.25	81.64	11.64	80.39
#	0.48	70.44	11.64	69.96

May 27 1984
 H Hamlin 21
 A Hamlin

Thorn St
 Sassafras

Spruce

Redwood
 Linnce

Palm
 Olive St

H Hamlin

Maple

May 26 1888 H H Hamlin
A H Hamlin 22

Check levels on Indian

Sta	+	HD	-	Clear
Bm		70.44	9.50	60.94
#	0.36	59.15	11.65	58.79
#	0.82	48.35	14.62	47.53
Bm			10.56	37.79
#	6.57	43.74	11.18	37.17
Bm	7.62	44.94	2.42	41.32
Bm				

Laurel

Wk end of House bet Laurel & J

Rubus
Juniper

May 29 1888

H Hamlin
A Hamlin 23

B M on Land & St

North of Hawthorn

Sto	+	HJ	-	Alt
-----	---	----	---	-----

B M	3.11	169.69		166.53
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#	11.46	180.32	0.83	168.86
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B M			4.85	175.47
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#	10.98	190.44	0.86	179.46
---	-------	--------	------	--------

#	11.76	199.82	2.38	188.06
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B M	9.06	207.78	1.40	199.42
-----	------	--------	------	--------

B M			1.92	206.56
-----	--	--	------	--------

B M	11.00	186.47		175.47
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#	0.07	175.19	11.35	175.12
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B M			10.20	164.99
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Land & Hawthorn N.E. Sp. 6" cut

Land & Jay N.W. Sp. 6" cut

Land & Juniper

Land & Hawthorn

1 St & Hawthorn

Check levels from dmi

Oct 11

1888

Sta	+	H ₂	-	Elev
Bm	3.58	43.58		40.00
#	0.90	42.106	2.274	41.306
Bm			3.69	39.416
#	0.92	35.161	7.865	34.271
Bm			4.12	31.041
#	0.13	27.709	7.542	27.579
Bm			3.236	24.473
#	1.263	21.783	7.145	20.514
Bm			4.74	17.043
#	2.20	16.544	7.399	14.344
Bm			6.335	10.249
#	1.44	10.864	7.56	9.124
#	2.735	7.021	6.578	4.286
Bm			3.54	3.441
#	5.765	9.885	2.491	4.130
Bm			2.515	7.390

trial B.M. on R & E to 5th 24

H Humber

H Humber

4th & E

4th & J

4th & G

4 & H H of H

4th & I

4th & K

5th & R

The image shows an open notebook with two pages. The left page is a ledger page with a grid of red lines. It has two horizontal lines near the top, creating a header section. Below these, there are seven vertical lines that divide the page into eight columns of varying widths. The right page is a grid page with a single horizontal line near the top and a single vertical line near the left edge, creating a header and a narrow left margin. The rest of the page is a grid of small squares. The notebook is bound in the center with three visible metal fasteners. The pages are a light cream color and show some signs of age and use.

Low Water for Aug

Date	H AM	Elev	H PM	Elev
1	10.25	-5.9	0.0	-4.0
2	0 34	-7.3	11 30	-5.9
3	1 16	-7.9	12 15	-5.9
4	1 47	-8.4	0 56	-6.0
5	2 16	-8.8	1 32	-6.1
6	2 45	-9.1	2 04	-6.6
7	3 14	-9.2	2 46	-6.9
8	3 44	-9.2	3 26	-7.1
9	4 16	-9.1	4 08	-7.2
10	4 48	-8.9	4 56	-7.2
11	5 24	-8.5	5 46	-7.1
12	6 11	-7.9	6 35	-7.1
13	7 00	-7.3	7 55	-7.0
14	8 13	-6.7	9 41	-7.1
15	9 41	-6.4	11 18	-7.7
16	11 09	-6.3	0 + 0	-0.0
17	0 27	-8.4	12 17	-6.5
18	1 18	-9.0	1 20	-6.7
19	2 04	-9.4	1 56	-6.9
20	2 43	-9.5	2 39	-7.00
21	3			

Low Water for Sept

Rate	H	Elev	H	Elev				
21	3 20	- 9.5	3 15	- 7.1				
22	3 53	- 9.3	3 51	- 7.1				
23	4 29	- 8.9	4 26	- 7.1				
24	4 50	- 8.3	5 03	- 7.1				
25	5 18	- 7.7	5 35	- 6.9				
26	5 54	- 7.1	6 07	- 6.8				
27	6 29	- 6.7	6 48	- 6.6				
28	7 08	- 6.1	8 14	- 6.5				
Sept	0 39	- 7.4	12 06	- 5.8	29	8.0	-	5.9 10 30 - 6.7
2	1 14	- 4.3	0 50	- 6.1	30	9.14	-	5.7 00 - 6.0
3	1 42	- 8.6	1 28	- 6.7	31	11.54	-	7.1 11 0 - 5.6
4	2 12	- 8.9	2 15	- 7.1				
5	2 43	- 8.9	2 42	- 7.5				
6	3 12	- 8.9	3 20	- 7.4				
7	3 46	- 8.7	4 02	- 8.0				
8	4 24	- 8.4	4 44	- 8.1				
9	5 06	- 7.9	5 28	- 7.9				
10	5 44	- 7.4	6 18	- 7.7				
11	6 32	- 6.7	7 34	- 7.5				
12	7 46	- 6.2	9 18	- 7.5				

Low Water for Sept

1888

Date	H A.M.	Clev	H P.M.	Clev
13	9 34	- 5.9	10 56	- 7.9
14	11 12	- 5.6	0 10	- 0.0
15	0 04	- 8.5	12 18	- 6.3
16	0 56	- 8.9	1 08	- 6.7
17	1 35	- 9.1	1 50	- 6.9
18	2 16	- 9.1	2 27	- 7.2
19	2 48	- 8.9	3 04	- 7.5
20	3 18	- 8.5	3 36	- 7.7
21	3 53	- 8.1	4 08	- 7.7
22	4 24	- 7.7	4 40	- 7.7
23	4 46	- 7.1	5 02	- 7.5
24	5 12	- 6.7	5 26	- 7.3
25	5 40	- 6.2	6 08	- 7.2
26	6 38	- 6.0	7 02	- 7.1
27	7 39	- 5.8	8 04	- 7.1
28	8 55	- 5.7	10 20	- 7.3
29	10 16	- 5.7	11 46	- 7.7
30	11 40	- 5.9	0 10	- 1.0
1	0 24	- 8.0	12 34	- 6.4
2	1 02	- 8.3	1 06	- 7.1
3	1 35	- 8.4	1 54	- 7.6
4	2 12	- 8.4	2 33	- 8.0
5	2 53	- 8.3	3 11	- 8.0

Oct 1888

Low Water for Oct

188

Boat	H _{AM}	Clev	H _P	Clev
6	3 28	-8.1	3.46	-8.5
7	4 01	-7.8	4 23	-9.6
8	4 37	-7.3	5 10	-8.5
9	5 17	-6.8	6 08	-8.3
10	6 11	-6.2	7 22	-8.1
11	7 33	-5.7	8 57	-7.9
12	9 34	-5.7	10 24	-8.1
13	11 10	-5.9	11 32	-8.3
14	0 10	-0 10	12 12	-6.4
15	0 24	-8.5	0 58	-6.9
16	1 06	-8.5	1 38	-7.4
17	1 42	-8.3	2 12	-7.9
18	2 22	-8.1	2 48	-8.1
19	2 54	-7.9	3 16	-8.1
20	3 18	-7.4	3 36	-8.2
21	3 38	-7.0	4 02	-8.2
22	3 54	-6.7	4 32	-8.1
23	4 28	-6.3	5 07	-8.0
24	5 13	-6.1	5 50	-7.8
25	6 07	-5.8	6 46	-7.6

A M

P M

Height Head Height Head

-5.8	2.3'	-5.8	2.3
-5.6	2.1'	-5.8	2.3
-5.1	1.6'	-5.9	2.4
-4.7	1.2'	-5.9	2.4
-4.4	0.9	-5.8	2.3
-4.0	0.5	-5.7	2.2
-3.8	0.1	-5.5	missed a tide
-3.5	0.0	-5.3	1.8

Low Water for Oct

Date	H _A	Elev	H _P	Elev
26	7 14	-5.6	8 04	-7.5
27	8 49	-5.6	9 34	-7.5
28	10 22	-5.7	10 42	-7.6
29	11 31	-5.9	11 33	-7.7
30	0 +6	-0+0	12 20	-6.6
31	0 20	-7.8	0 53	-7.5

November 1884

1	1 08	-7.9	1 33	-8.1
2	1 44	-7.9	2 11	-8.5
3	2 21	-7.8	2 52	-8.9
4	2 57	-7.5	3 34	-9.1
5	3 33	-7.3	4 18	-9.1
6	4 14	-6.9	5 08	-9.1
7	4 58	-6.4	6 04	-8.8
8	5 56	-5.9	7 08	-8.5
9	7 21	-5.5	8 22	-8.3
10	9 18	-5.7	9 40	-8.1
11	10 54	-5.9	10 48	-8.1
12	11 56P	-6.5	11 42	-7.9

1888 A

P

Height	Head	Height	Head
No difference in tides		-5.2	1.7

Low Water for Nov 1888

1888

Date	Hour	Elev	Hour	Elev
13	"	"	12 42	-7.1
14	0 30	-7.7	1 12	-7.6
15	1 14	-7.5	1 44	-7.9
16	1 47	-7.3	2 18	-8.2
17	2 18	-7.1	2 48	-8.5
18	2 45	-6.8	3 20	-8.7
19	3 12	-6.5	3 50	-8.7
20	3 37	-6.1	4 22	-8.6
21	4 05	-6.0	4 58	-8.5
22	4 40	-5.9	5 38	-8.3
23	5 22	-5.8	6 24	-8.2
24	6 24	-5.7	7 20	-8.0
25	7 53	-5.6	8 24	-7.9
26	9 34	-5.9	9 22	-7.6
27	10 50	-6.4	10 42	-7.5
28	11 34	-7.1	11 44	-7.7
29	" "	-0.0	12 26	-7.8
30	0 31	-7.6	1 17	-8.5

Low Water for Dec 1888

Date	Hour A	Elev	Hour P	Elev
1	1 14	-7.5	2 02	-9 0
2	1 53	-7.3	2 42	-9 4
3	2 36	-7.1	3 32	-9 6
4	3 15	-6.8	4 18	-9 6
5	4 00	-6.4	5 04	-9 5
6	4 48	-6.1	5 53	-9 2
7	5 46	-5.7	6 48	-8 8
8	6 59	-5.8	7 46	-8 4
9	8 37	-5.7	8 47	-8 0
10	10 16	-5.9	9 49	-7 5
11	11 29	-6.5	10 53	-7 3
12	' '	' '	12 09	-7 1
13	11 53	-7.1	0 52	-7 5
14	0 36	-6.9	1 30	-7 9
15	1 08	-6.7	2 06	-8 3
16	1 35	-6.5	2 38	-8 7
17	2 00	-6.3	3 09	-8 9
18	2 34	-6.2	3 41	-9 1
19	2 49	-6.1	4 12	-9 1
20	3 29	-6.1	4 48	-9 0

Low Water for Dec 1888

Date	Hour	Elev	Hour	Elev
21	3 55	-6.0	5 20	-8.8
22	4 43	-6.0	5 58	-8.6
23	5 42	-5.9	6 42	-8.3
24	7 04	-5.9	7 36	-7.9
25	8 30	-6.1	8 45	-7.6
26	9 44	-6.6	10 00	-7.4
27	11 08	-7.2	11 06	-7.3
28			12 16	-7.9
29	0 07	-7.2	1 09	-8.7
30	0 52	-7.1	1 56	-9.3
31	1 40	-7.0	2 44	-9.7

Measurements on Sewer Wharf

0	W L of Atlantic St.
+50	
1	
+50	
2	
+50	
3	
+14	
+46	
+50	
+90	
+96	
4+0	
+50	
5	
+50	
6	
+50	

10'



6+79

7+00

+40

+50

4

+50

9

+50

10

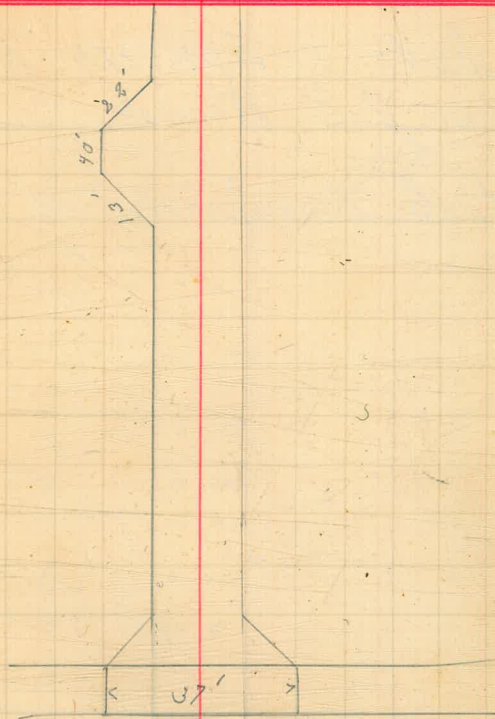
+9 beginning of Rise

+50

+64 end of Rise

+95.5 Reservoir

11+02



Dec 23 1888

Lot J Blk 115 Montrose
for J S Buck

P. G. Remondine

6275
480

1475

J			
I			
H			
C			
J			

6' 78

6' 35

6' 275

6' 025

57' 8

4' x 90

90

Top of Piles for Piers

Pier	S Pile	N Pile
40	-12.98	-12.95
39	-13.1	-12.88
38	-12.50	-12.50
37	-12.60	-12.70
36	-12.40	-12.40
35	-12.30	-12.35
34	-12.16	-12.01
33	-12.44	-12.50
32	-12.45	-12.45
31	-12.67	-12.57
30	-12.30	-12.35
29	-12.49	-12.40
28	-12.53	-12.53
27	-12.08	-12.11
26	-12.74	-12.58
25	-12.10	-12.10
24	-11.94	-11.97
23	-12.20	-12.20
22	-12.22	-12.19
21	-12.33	-12.48
20	-11.50	-11.55

Tot of Bills for Piers

Pier	3 Pile	4 Pile
19	-12.58	-12.44
18	-12.40	-12.50
17	-12.58	-12.40
16	-12.37	-12.51
15	-12.29	-12.20
14	-12.25	-12.21
13	-12.22	-12.25
12		
11		
10		

41

The image shows an open notebook with two pages. The pages are cream-colored and feature a light blue grid pattern. The left page is ruled with a grid and has six vertical red lines, creating seven columns. The right page is ruled with a grid and has one vertical red line, creating two columns. The number '42' is printed in the top right corner of the right page. The notebook is placed on a white surface, and the background is black.

$$\begin{array}{r} 12.75 \\ 8.27 \\ \hline 4.48 \end{array}$$

$$\begin{array}{r} 12.72 \\ 8.14 \\ \hline 4.58 \end{array}$$

$$\begin{array}{r} 12.72 \\ 8.27 \\ \hline 4.45 \end{array}$$

$$\begin{array}{r} 12.48 \\ 8.25 \\ \hline 4.23 \end{array}$$

$$\begin{array}{r} 12.62 \\ 8.29 \\ \hline 4.33 \end{array}$$

$$\begin{array}{r} 6.13 \\ 2.14 \\ \hline 8.27 \end{array}$$

$$\begin{array}{r} 6.15 \\ 2.14 \\ \hline 8.29 \end{array}$$

$$\begin{array}{r} 12.65 \\ 8.28 \\ \hline 4.37 \end{array}$$

$$6.14$$

$$\begin{array}{r} 6.14 \\ 2.14 \\ \hline 8.28 \end{array}$$

Grades on lateral fm

Sta	+	H.S.	-	Blv	Grade	Cut
B.M.	1131	118.16		106.95		
V			3.13	115.03	107.75	7.28
+30			3.94	114.22	108.25	5.97
+60			3.48	114.68	108.75	5.93
+90			3.93	114.23	109.25	4.98
+120			5.18	112.98	109.75	3.23
+36			5.51	112.45	110.00	2.45

Abutment bet
Grave & Hawthorn
On Donald

7	3 3/4
5	11 5/8
5	11 1/8
4	11 3/4
3	2 3/4
2	10 1/4

dup/rs
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	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	80
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	79
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	78
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	77
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	76
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	75
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	74
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	73
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	72
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	71
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	70
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	69
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	68
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	67
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	66
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	65
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	64
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	63
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	62
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	61
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	60
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	59
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	58
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	57
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	56
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	55
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	54
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	53
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	52
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	51
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	50
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	49
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	48
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	47
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	46
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	45
37	79.96	60.18	79.60	60.53	79.34	60.88	79.07	61.22	44
38	78.98	61.57	78.53	61.91	78.26	62.25	77.99	62.59	43
39	77.97	62.93	77.44	63.27	77.16	63.61	76.88	63.94	42
40	76.93	64.28	76.32	64.61	76.04	64.94	75.76	65.28	41
41	75.87	65.61	75.18	65.93	74.90	66.26	74.61	66.59	40
42	74.78	66.91	74.02	67.24	73.73	67.56	73.43	67.88	39
43	73.66	68.20	72.84	68.52	72.54	68.84	72.24	69.15	38
44	72.51	69.47	71.63	69.78	71.33	70.09	71.02	70.40	37
45	71.33	70.71							36
Degrees.	De	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

Handwritten notes on the left page:

7.72 163.77 158.05
 10.68 163.72 155.04 C
 1.54 166.32 164.84 b
 5.04 166.82 161.74 b
 4.01 162.81 B
 B.M. 5.83 14.98 9.15
 B.M. # 6.21 17.97 3.22 11.76
 B.M. 4.09 13.88
 B.M. 2.28 17.48 2.77 15.30
 B.M. 9.35 176.64 167.29
 # 11.57 185.23 2.78 173.86
 B.M. 1.42 184.81
 B.M. 6.16 15.39 9.15

C. Grades on India St. A B B B B B B B B