City Surv[illegible]

Jany 20th 1[illegible]

Fulton's Book.

Filled.

2

F.B. 64

J.M. VAN HOOK. Washington, D.C. April 20th 1888.

64

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

1616-19th St. N.W.

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.

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SAN FRANCISCO, 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.
°		°		°		°	
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

64

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

No 64

d

2

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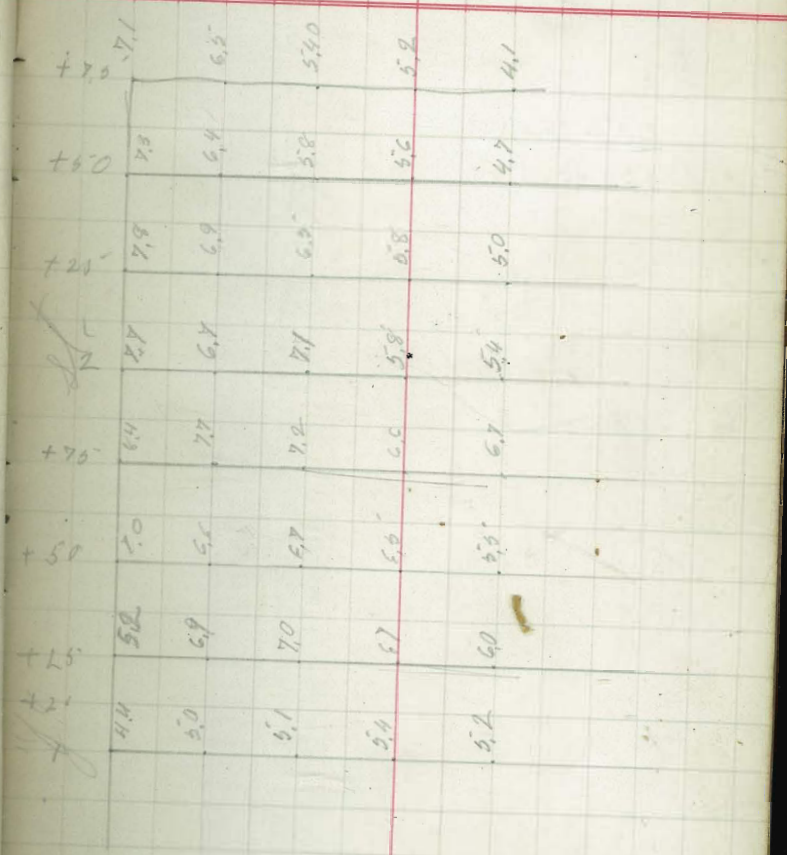
0.3 E 104.10 103.74

Blk 14 Newtown (?)

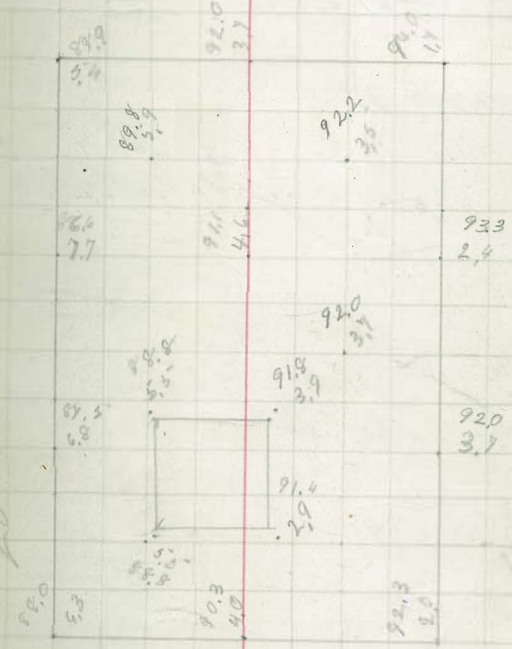


Blk 12 Sherman Add

Orig Stamford

2,32	94,35		92,01
3,22	95,73		

J. B. Fulton

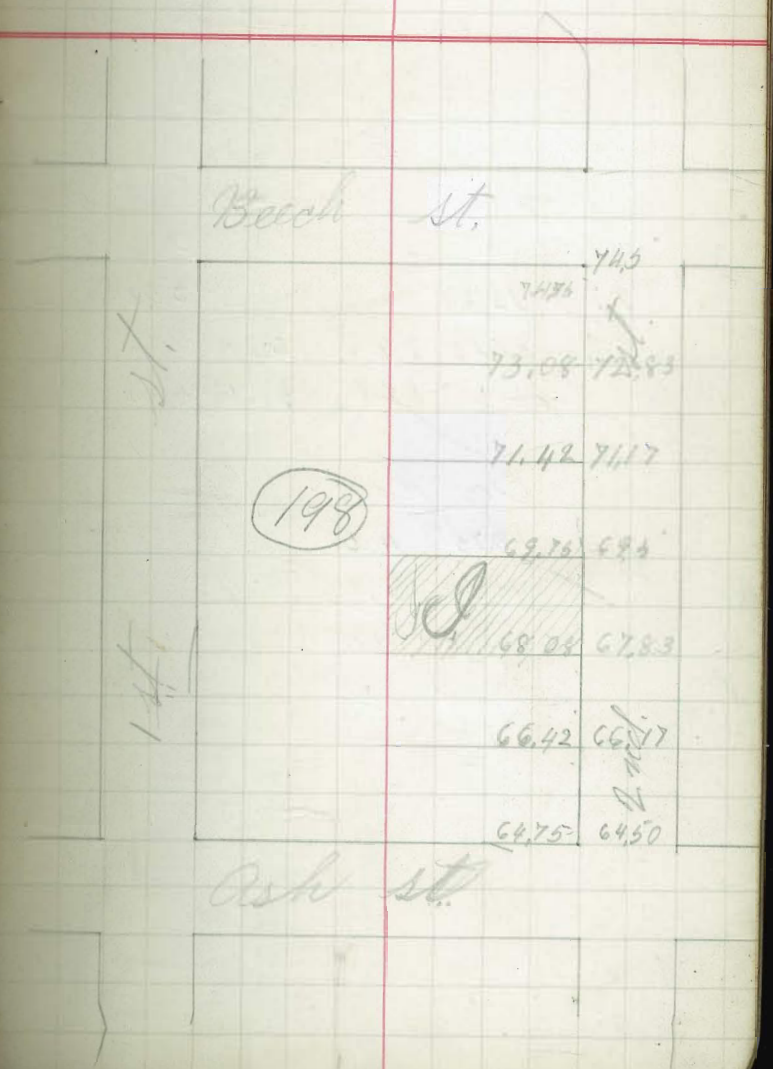


Jan 31st 1888

Grades for
Mrs. Shirley
Lot 5 Blk 198 Hoyts add.

0,00	73,01			74,41
4,13	70,30	8,84	66,17	
		7,08	63,22	63,24

Elev.	Rod.
69,75	5,26
68,08	6,93



7

Jan 31st 1888.

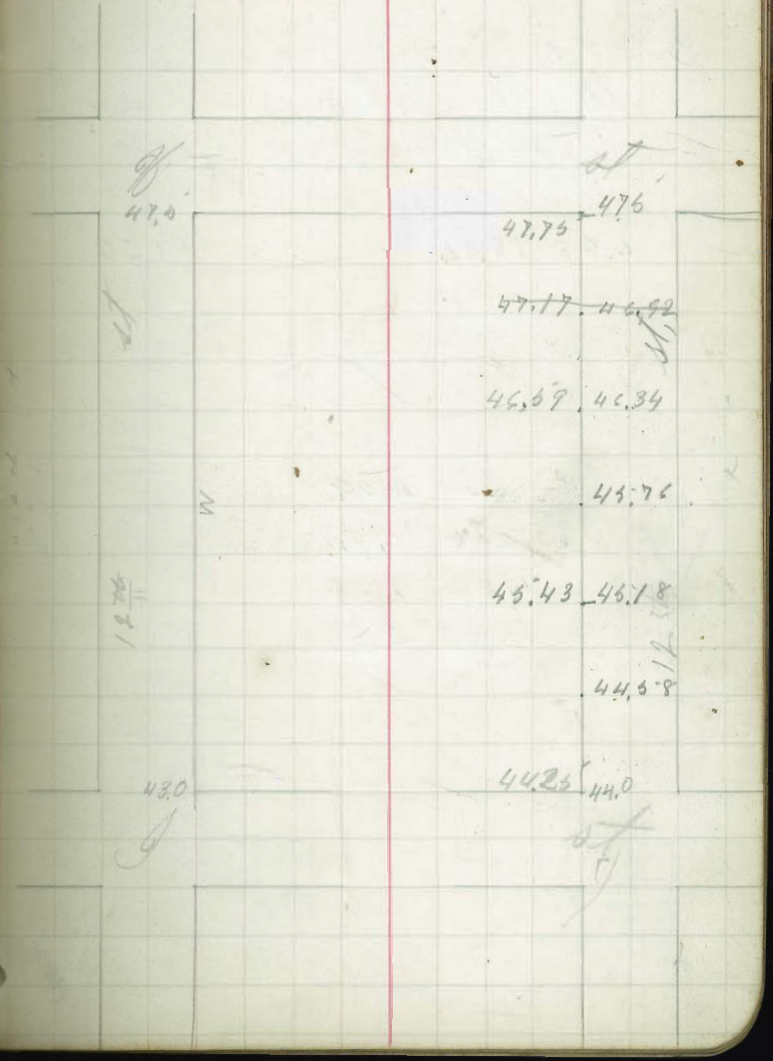
Grades for
Mr Liddy

2,29	52.33			50.04
6,72	56.76			
		1,98	54.78	54.82

Elev.	Rod.
47.76	4.68
46.59	5.74
45.43	6,90

6

Blk 100 Hopkins



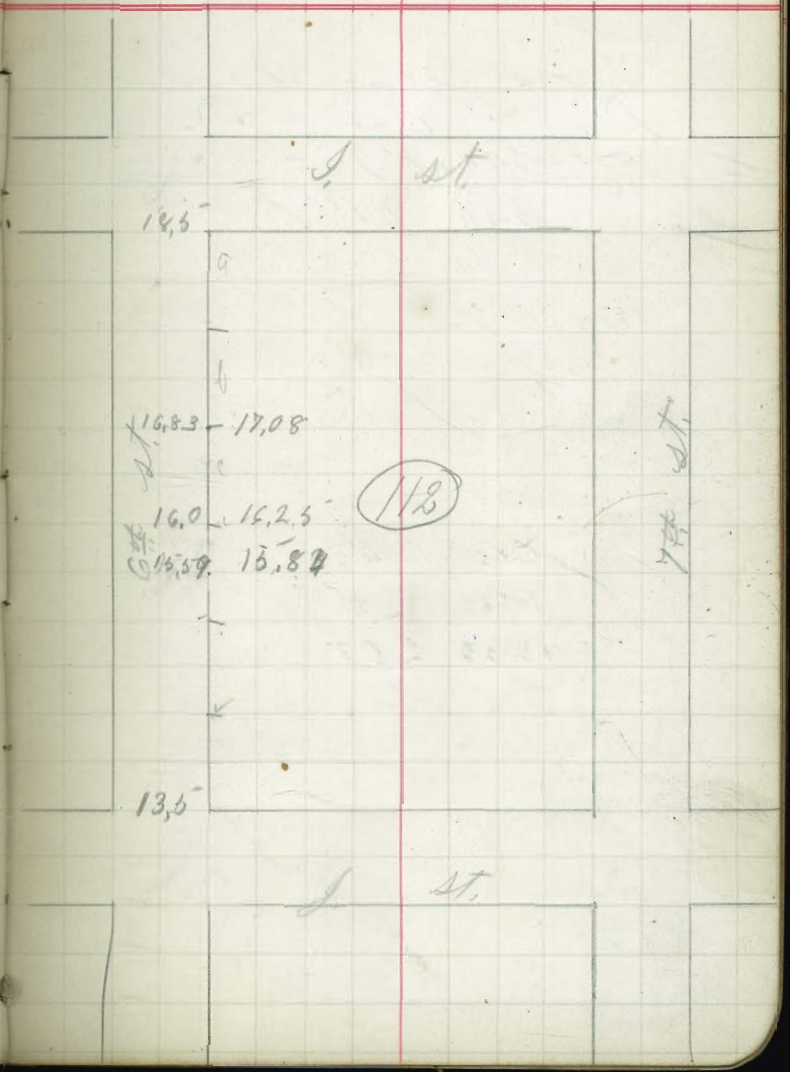
Jan. 31 1888

Blk 112 Hanford

3 Grades for
W. Mc. Conklin
Lot C & N 2 D Blk 112
Hanford addn.

4.98 18.64 13.66

Elev	Rod
17.08	1.56
16.25	2.39
16.84	2.80

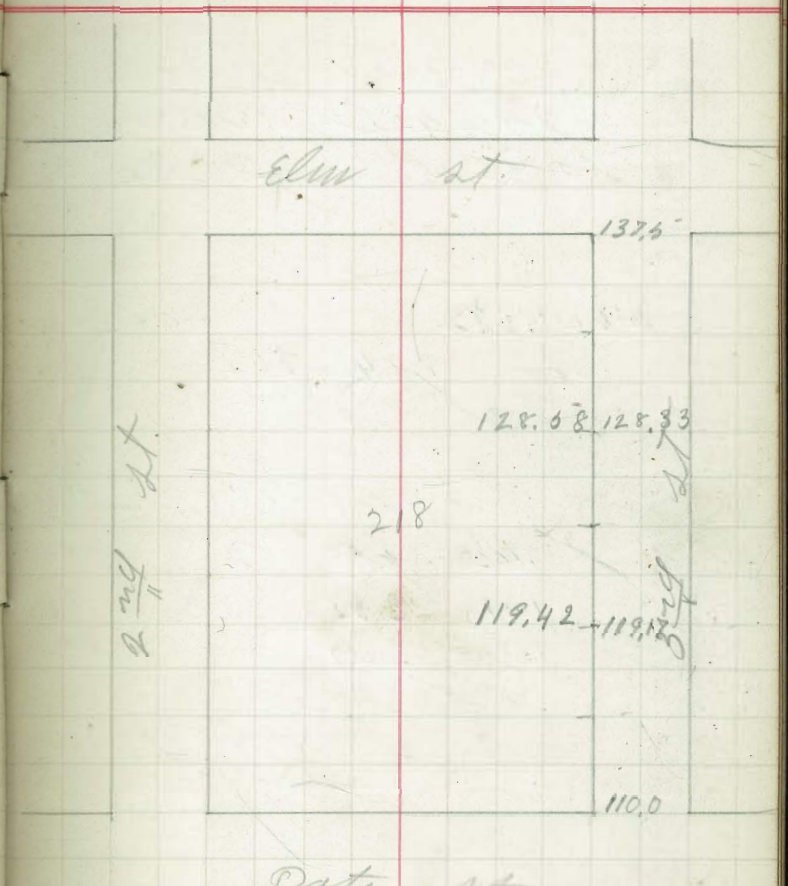


Jan 31 1888

Grades for Dr Friary on Lot 1 Blk Dat & Elev Blk 218 K a

11.74	12.26			100.52
11.24	13.06	2.84	119.42	

Elev.	Rod
119.42	2.84
128.58	2.08

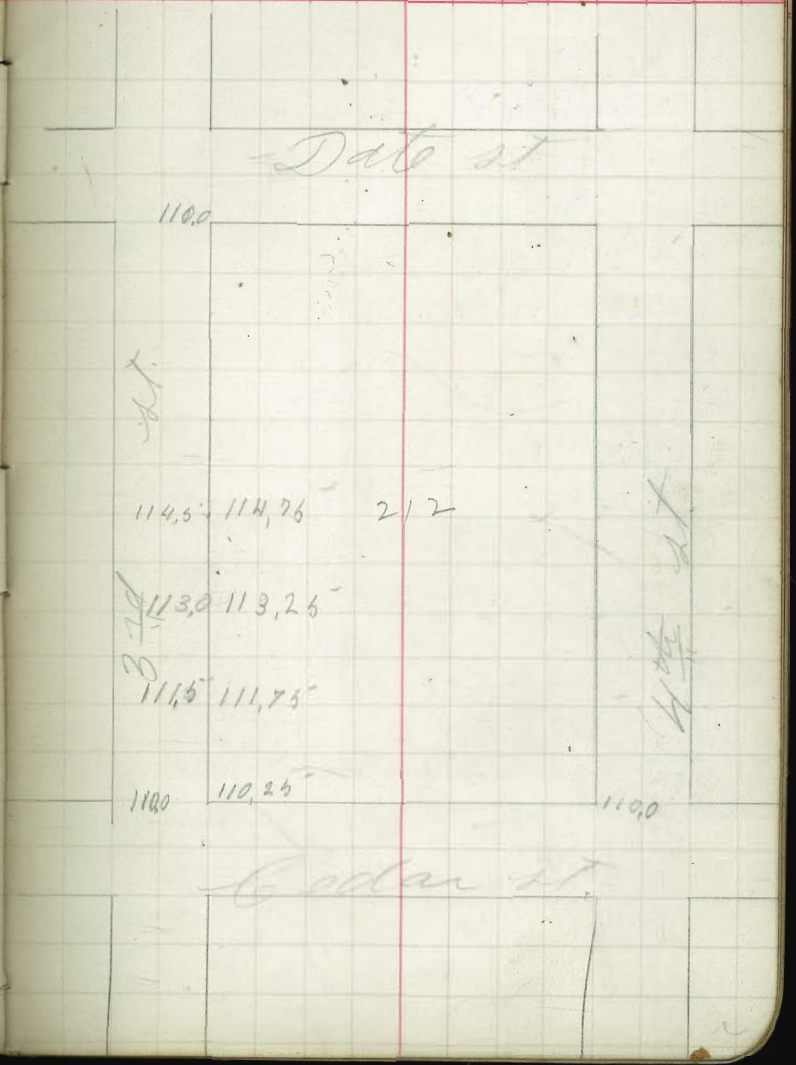


Feb 2nd 1888

Grades for
D.P Hall Blk 212
part add. lots D & E & F

4.80 | 116.32 | 110.52

Elev	Rock
110.25	5.07
111.75	3.57
113.25	2.07
114.75	0.57
110.25	5.07
110.25	5.07



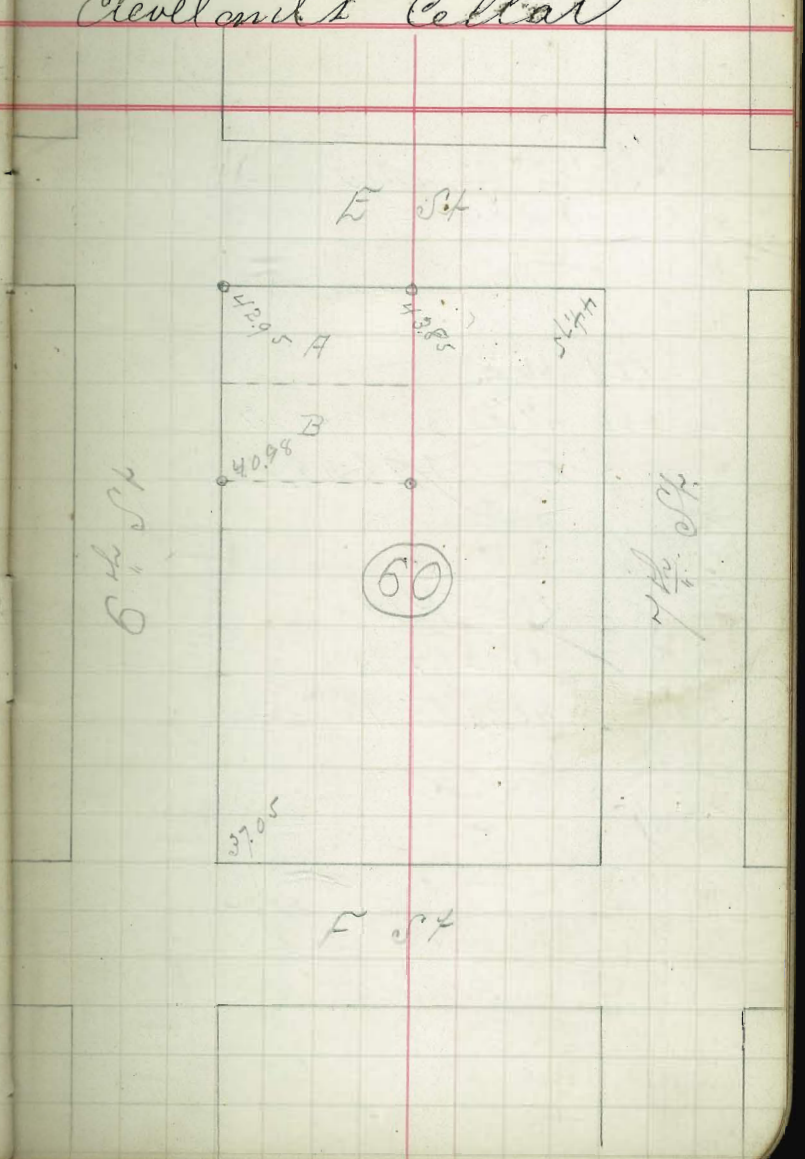
15

Bkw	+	H I	-	Grade	Rod	Elev.
		Sidewalk Grades for Blk 60 Lots A & B				
37.03	6.59	43.62		40.98	4.64	
				42.95	2.67	
				43.85	1.77	
	3.92	46.87				42.95
B.M.			2.25			44.62
	1.24	44.29				42.95
#	2.87	37.46	5.70			34.59
			6.34			31.12

16

10

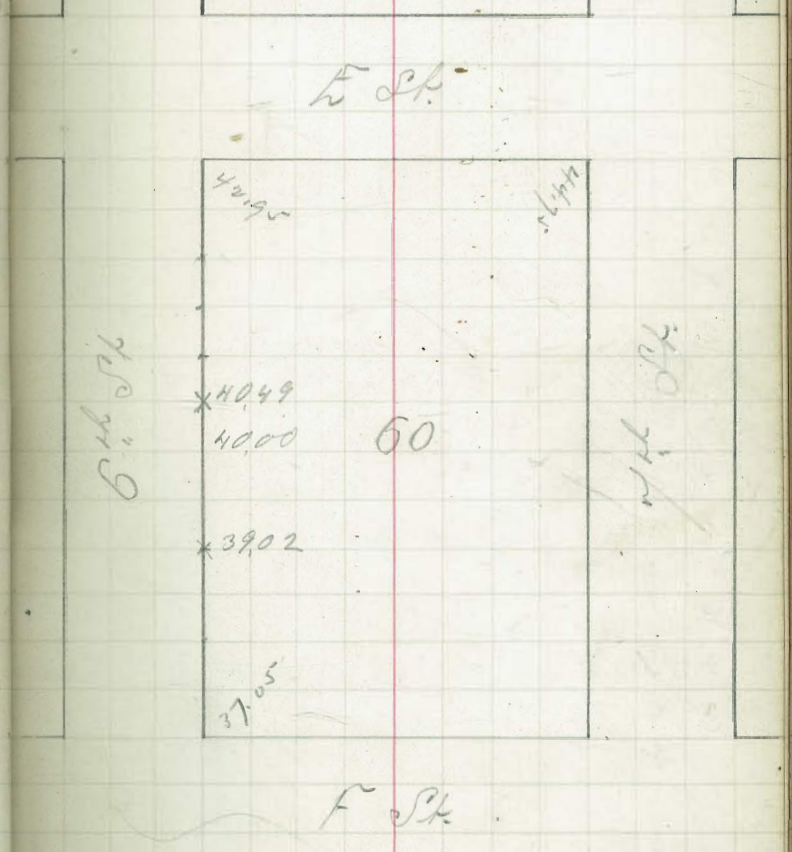
Cleveland's Cellar



Property Grades for J. H. Snyder

7.21	44.27			37.06
6.30	47.57	3.00	41.27	
		2.91	44.66	44.66

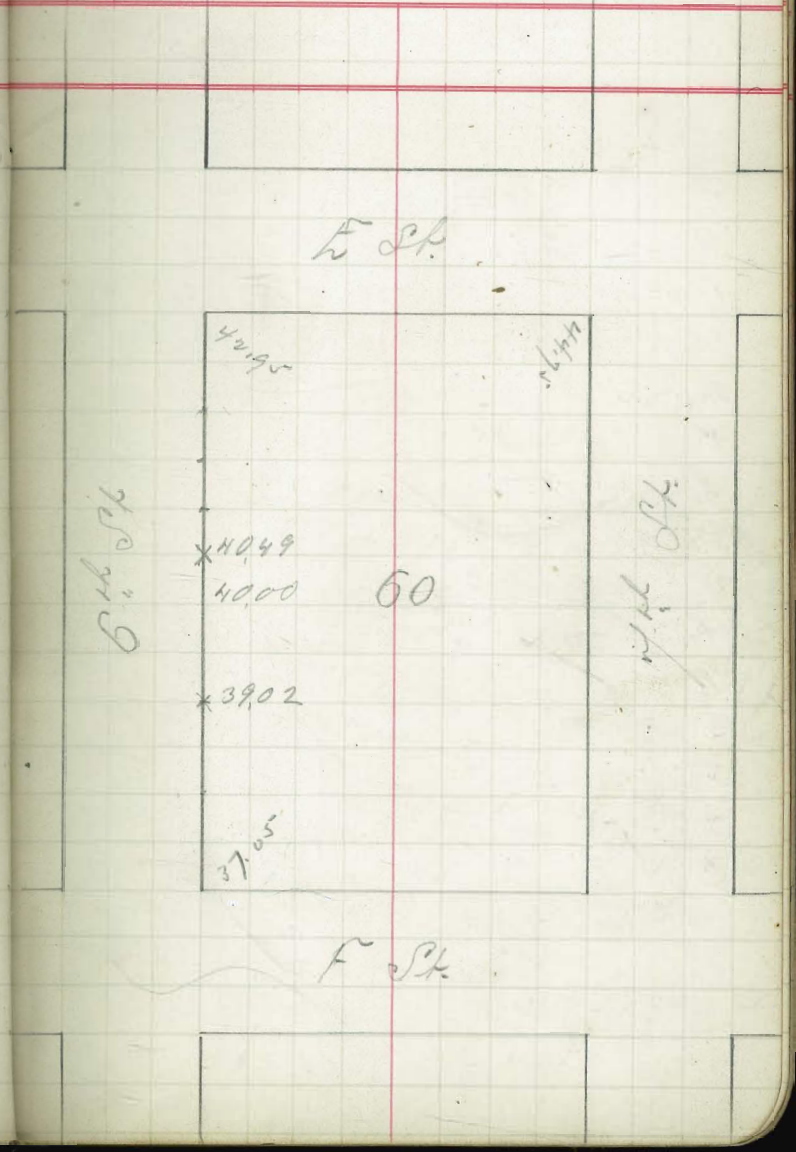
Elev	Rod
39.02	5.25
40.49	3.78



Property Grades for J.H. Snyder

7.21	44.27			37.06
6.30	47.57	3.00	41.27	
		2.91	44.66	44.66

Elev	Rod
39.02	5.25
40.49	3.78



19 Grades for College Hill road. Forward

Sta.	+	B.S.	−	Elev.	Grade
0					
+					
1					
+					
2					
+					
3					
Maple st					
0					
+					
1					
+					
2					
+					
3					
Nutmeg st					

Rod.	Elev.	Grade	±
		250,5	
		251,79	
		253,00	
		254,21	
		255,60	
		256,76	
		258,0	
		258,5	
		259,29	
		260,08	
		260,87	
		261,67	
		262,46	
		263,25	

Sta	+	B.S.	−	Elev.	H.I.
0					
+					
1					
+					
2					
+					
3					
Olive st.					
0					
+					
1					
+					
2					
+					
3					
Palm st.					

Rod	elev	B.S.	+	−
		264.25		
		266.21		
		267.17		
		268.12		
		269.08		
		270.04		
		271.0		
		271.6		
		272.21		
		272.92		
		273.62		
		274.33		
		276.04		
		275.75		

Sta	+	H.I.	−	Elev.	B.M.
0					
+					
1					
+					
2					
+					
3					
	Quince st.				
0					
+					
1					
+					
2					
+					
3					
	Redwood st.				

Rod	Elev.	9	±
		276.74	
		277.17	
		277.58	
		278.00	
		278.42	
		278.83	
		279.25	
		279.25	
		279.54	
		279.83	
		280.12	
		280.42	
		280.71	
		281.0	

Sta	+	H.I.	−	Elev.	B.M.
0					
+					
1					
+					
2					
+					
3					
Spruce st.					
0					
+					
1					
+					
2					
+					
3					
Thorn st.					

Rod.	Elev.	H.I.	±
		281.5	
		281.42	
		281.33	
		281.25	
		281.17	
		281.08	
		281.0	
		281.0	
		280.75	
		280.50	
		280.25	
		280.00	
		279.75	
		279.5	

Sta	+	H.I.	−	Elev	B.M.
0					
+					
1					
+					
2					
+					
3					
Upas st.					
0					

Rod.	Elev	91	±
		280.5'	
		281.5'	
		282.5'	
		283.5'	
		284.5'	
		285.5'	
		286.5'	
		287.0	

2.9

Grades for Sidewalks on

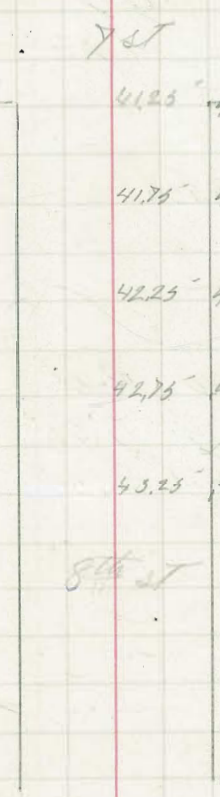
7th St between

7th & 8th Sts

for the City

+	H.I.	−	Elev	Elev Rod
0.87	50.09			49.22
4.27	47.16	7.20	42.89	

Elev	Rod
43.25	3.91
42.75	4.41
42.25	4.91
41.75	5.41
41.25	5.91

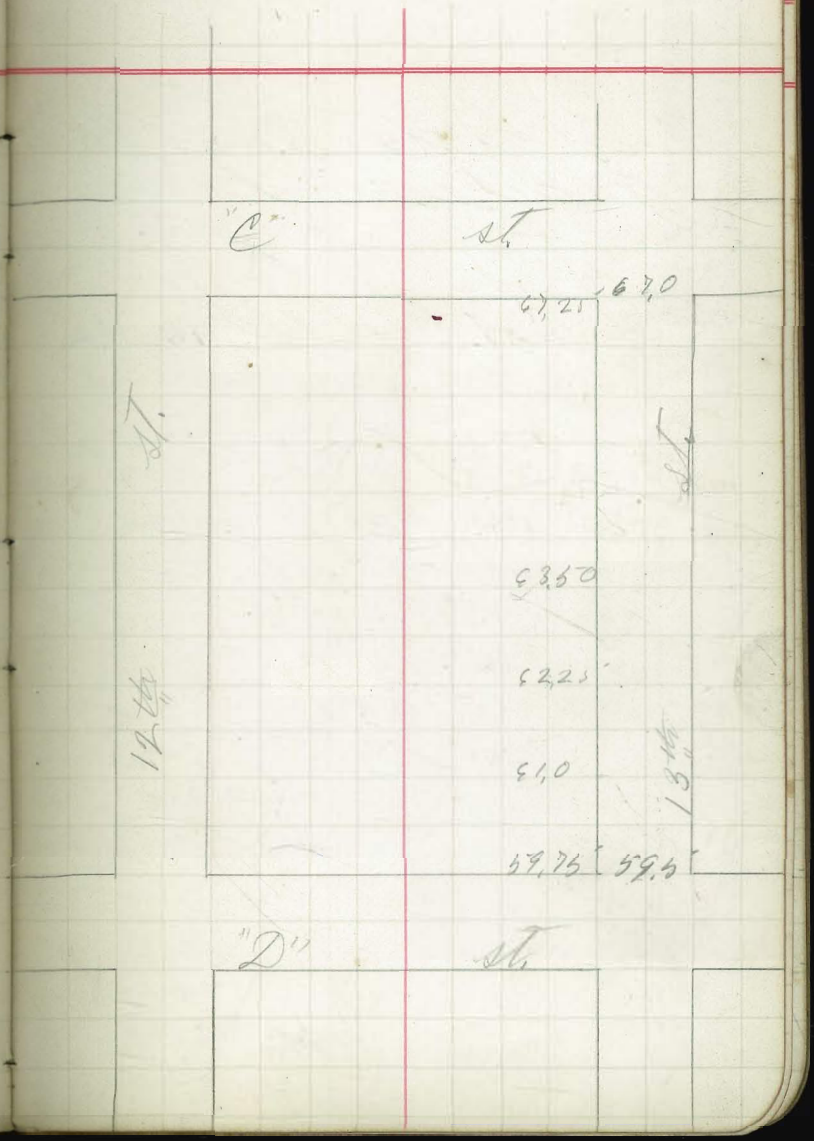


41.25	41.0
41.75	41.5
42.25	42.0
42.75	42.5
43.25	43.0

Grades for
J. G. Capron

2,31	63,55		61,24

Elev	Rod
63,5	0,06
62,25	1,30



Feb 14 1888

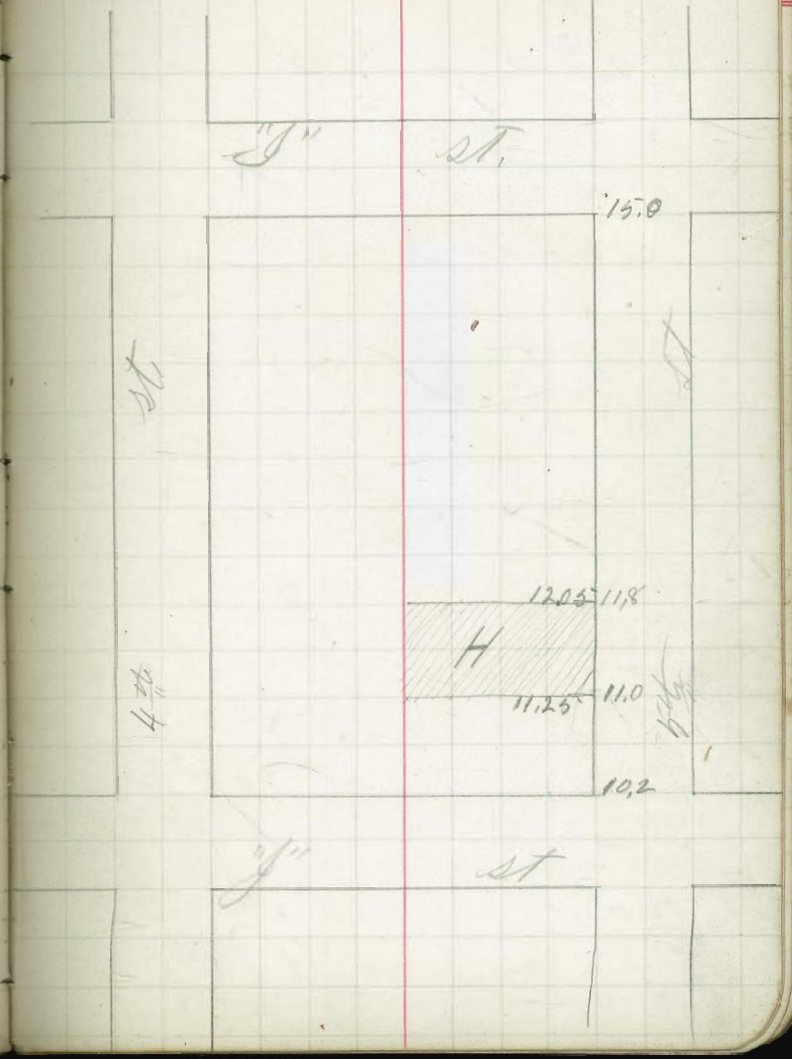
Two side walk grades for

J. L. Wray

Lot H Blk 114. H.A.

+	HI		BM
8.67	15.97		2.43

	Elev	Rod
	11,25	4.72
	12,05	3.92



35

Grades for
21 Car 05

sta.	+	B.S.	−	Elev.	B.M.	sta
		17.96				0
			1.18	16.80		+
	9.50	26.30				1
			0.14	26.70	15th E	+
						2
						+
						3
						0
						+
						1
						+
						2
						+
						3

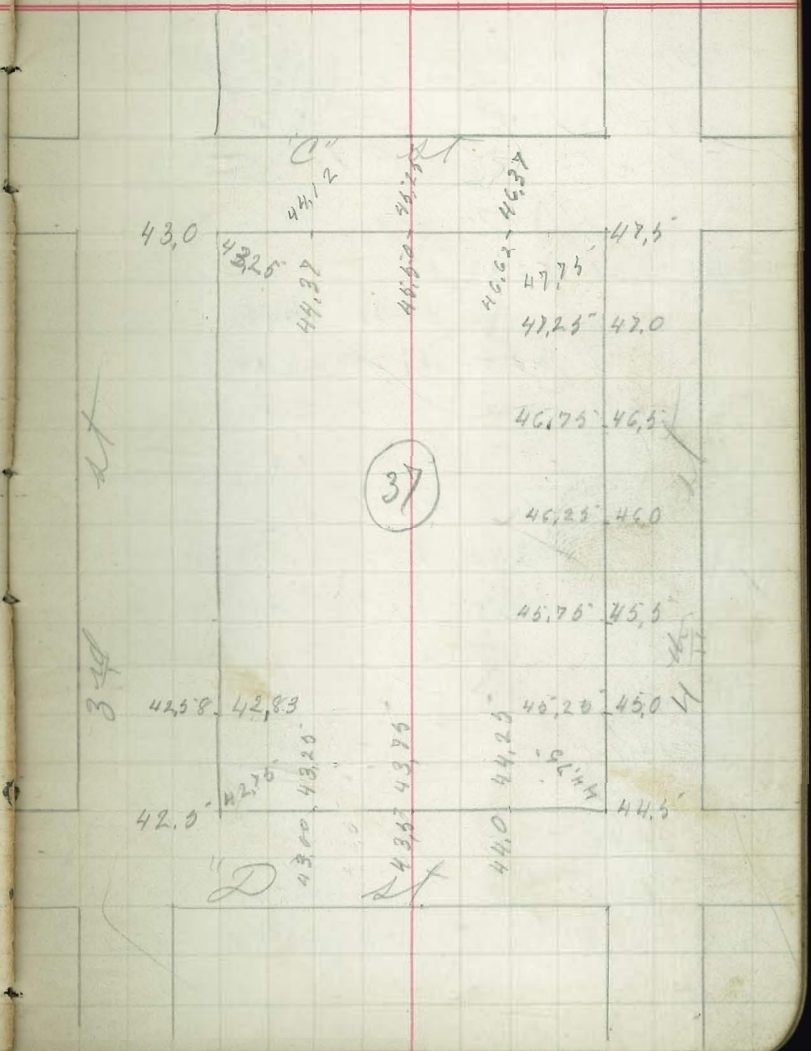
Gr. G	Rod.	Gr. E	Rod.
14.6	3.48	26.5	
14.88		27.55	
15.27		28.60	
15.65	4.33	29.65	
16.03		30.70	
16.42		31.75	
16.8	1.18	32.8	
26.30 F		D	
17.8	8.00	33.5	
18.08		33.82	
20.37		34.23	
21.65	4.15	34.53	
22.93		34.81	
24.22		35.18	
25.3	.80	36.5	
		C	

Sta	+	B.S	—	Elev	H.I.
	3.90	17.98			14.08

Sta	Rod
12.5	3.48
12.85	
13.17	
13.50	4.48
13.83	
14.17	
14.5	2.48

Grades for sidewalk
Blk 37 Lots 8, 9, 11, 12
for A. Haskins.

+	N.S.	−	elev	B.M.
5,55	46,55			40,00
5,94	49,01	2,48	43,07	
		9,01	40,00	
gr	Rod		gr	Rod
42,83	2,72		44,75	4,26
42,99	2,76		45,00	4,01
42,75	2,80		45,25	3,76
43,00	2,55		45,50	3,51
43,25	2,30		45,75	3,26
43,50	2,05		46,00	3,01
43,75	5,26		46,25	2,76
44,00	5,01		46,50	2,51
44,25	4,76		46,75	2,26
44,50	4,51			



41 Set 2374 1888

J. B. Fuller 4/88

Two sidewalk grades on Lot 15 Blk 44 Hoits Add for W. P. Flavin,

44.64	8.68	53.32			1.67
			48.38	4.94	51.65
			47.20	6.12	

1.03
54.72 4.11 55.76
8.04
47.73

Checked

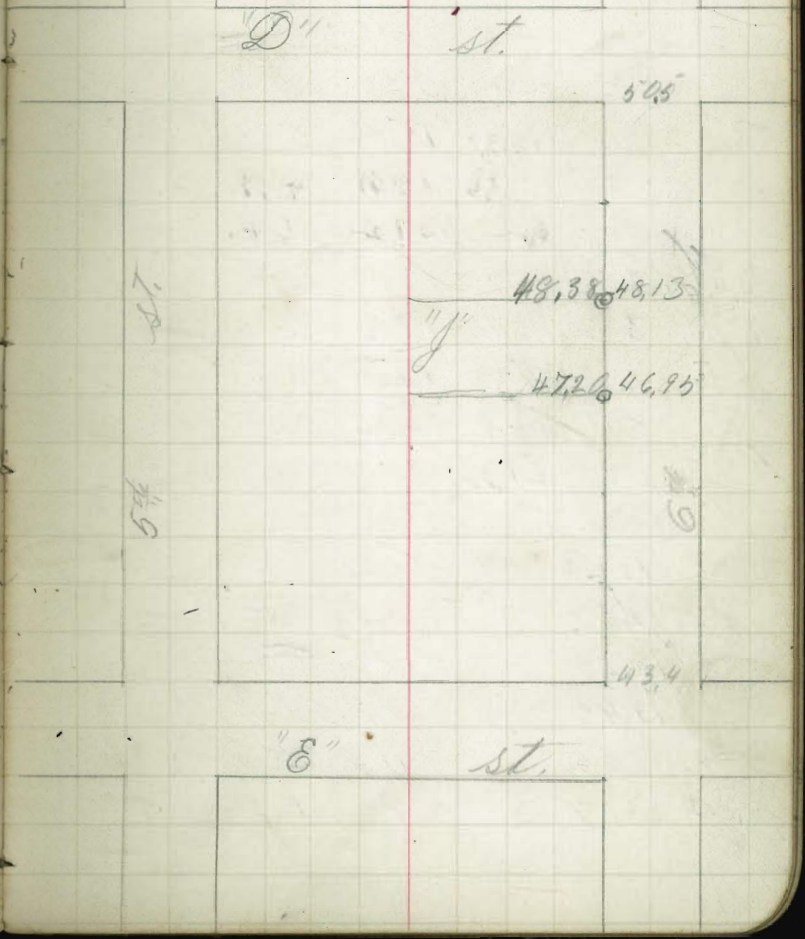
9-2	Rod		
48.38	6.73		
47.20	8.91		
		54.73	
0.38	5.51		
R.R.	7.91	47.20	Lower cor
B.R.	6.73	48.38	Upper "

0.4
2.4

23

Find building floor run out, which makes lower end .4 ft high and upper end .4 low

— Shaw —



Bridge at Just

	4,35	19,64			15,29
	Rod	Elev	gr	cut	
S.E.	5,65	13,99	11,0	3,0	
M.S.	3,3	16,34	11,0	5,3	
S.W.	3,2	16,44	11,0	5,4	
N.W.	2,9	16,74	12,0	4,1	
N.M.	3,2	16,44	12,0	4,4	
N.E.	4,3	15,34	12,0	3,3	
	5,9	21,19			15,29
Rod	Elev		length		
9,26	11,93		9, 7/8	E	S
9,02	12,17		8, 9 7/8	M	
8,54	12,26		8, 9"	W	
7,79	13,40		8, 7" 3/16	W	N
8,14	13,05		8, 11" 3/8	M	
8,02	13,17		8, 9" 7/8	E	

Top of Bridge at
North end 22,0
Batter N.S.
South end 21,0
Batter N.S.
12,0 11,0

Bridge on J" 11/5

	0,14	36,98			36,84
	1,91	27,32	11,57	25,41	
	Rod	elev	gr	cut	
	7,1	20,2	17.0	3,2	
	7,0	20,3	17,5	2,8	
	6,5	20 8	18,0	2,8	
	7,6	19,7	17,5	2,2	
	7,0	20,3	18,0	2,3	
	7,7	19,6	18,5	1,1	
	0,62	37,46			36,84
	1,52	28,30	10,68	26,78	

Rod	Elev	length
9,3	19,00	10'
9,09	19,21	9' 3 1/2"
10,37	17,93	10' 3/4"
9,68	18,62	8' 10 1/8"

Top of Bridge at

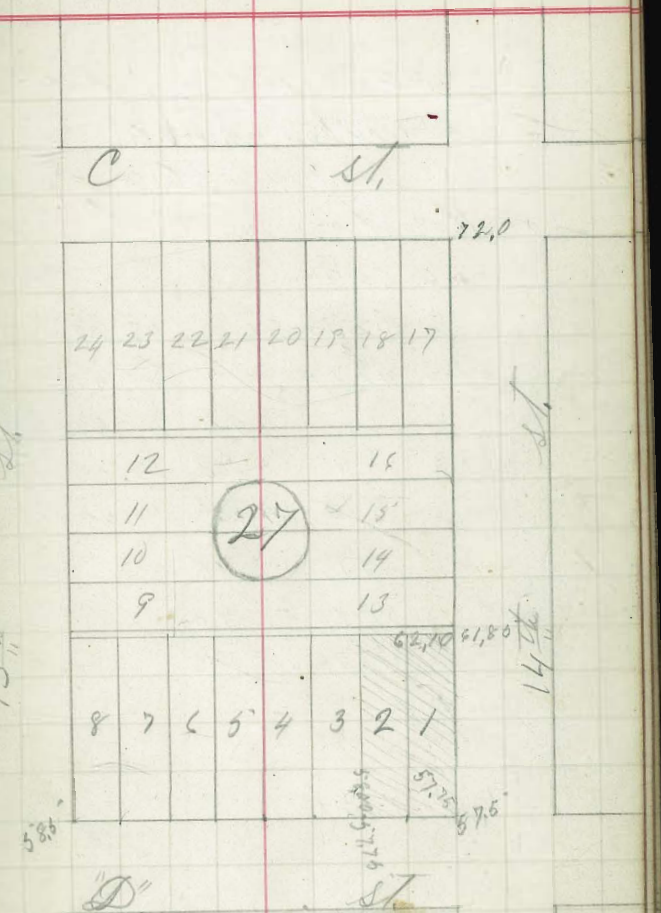
North end	South end
W m E	W. m E
28,5 28 27,5	28,0 28,5 28,0
Bot. M.S. Bot. M.S.	Bot M.S. B. M.S.
18,0 17,0	18,5 17,5

47 March 5th 1888

3 Grades for
W. D. Mowry
Lots 1 & 2 Blk
21 Hurlbut add
Glenwood sub. Div.

BM	+	HI	Grade	Red	=	Elev.
52.90	9.03	61.93	58.00	3.93		
			57.75	4.18		
			61.80	.13		
BM				0.73		61.20

H Hamblin
A Hamblin



March 7 1888

Grades for Brewster and Whaley at Blk. 36 lots 9 & 1 Horton add.

0,46	56,90			56,44
4,48	52,75	8,63	48,27	
3,30	47,77	3,28	44,47	
		3,95	43,82	43,75
		3,68	40,08	40,00

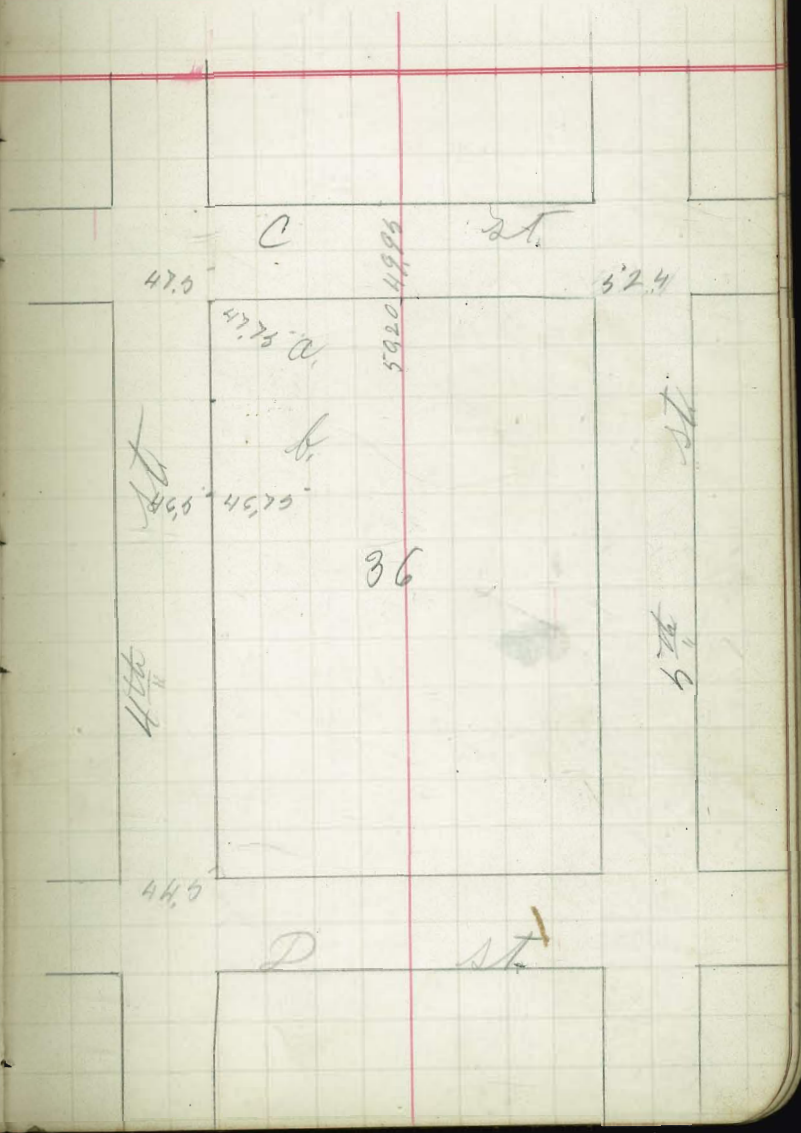
9-2. Rod

47,75	4,86
50,20	2,41
46,75	3,86

4,41	52,61	48,20

4000
761
4761
358
43,74

4382
391
47,73
761
40,08

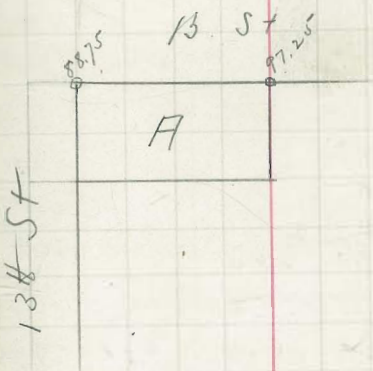


Grades for RW Laudmm

S E Cor 13 + B - Lot a

Spencer + Wife.

B.M.	+	H.I.	−	Gr	Rod
108.04	0.11	108.15	10.80		
El 97.35	0.82	98.17			
				88.75	9.42
				97.25	0.92
			2.68		
95.49	7.40	102.89	3.9.9		
98.90	ok				
98.94	B.M.				



53

March 12 88

April 20 88

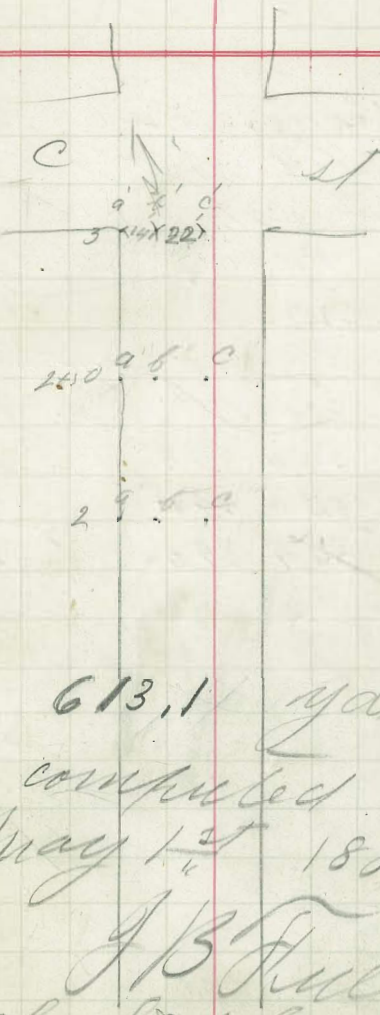
June

Measurement of Earthwork for Mr Harbeson on 13th hole K.H. Blk 28 Northwood

	a		b		c		
	0.66		68.74			68.08	
	a		b		c		
Rod	ele		Rod	el	Rod	el	
3,62	65,22		3,32	65.42	3,46	65,28	3
6,7	62,04		7,53	61,21	7,2	61,54	2+50
8,7	60,04		9,4	59 34	9,2	59,54	2
10,14	58,6		10,94	57,8	10,74	58,0	1+65
	2,57		70,59			68,08	
Rod	ele		Rod	el	Rod	el	
3,7	66,9		3,5	67,1	4,9	65,7	3
3,3	67,3		4,1	66,5	6,4	65,2	2+50
8,2	62,4		8,1	62,5	8,0	62,6	2
9,3	61,3		8,9	61,7	9,4	61,1	1+65

54

29



613,1 yds

completed

May 1st 1888

J.B. Fuller

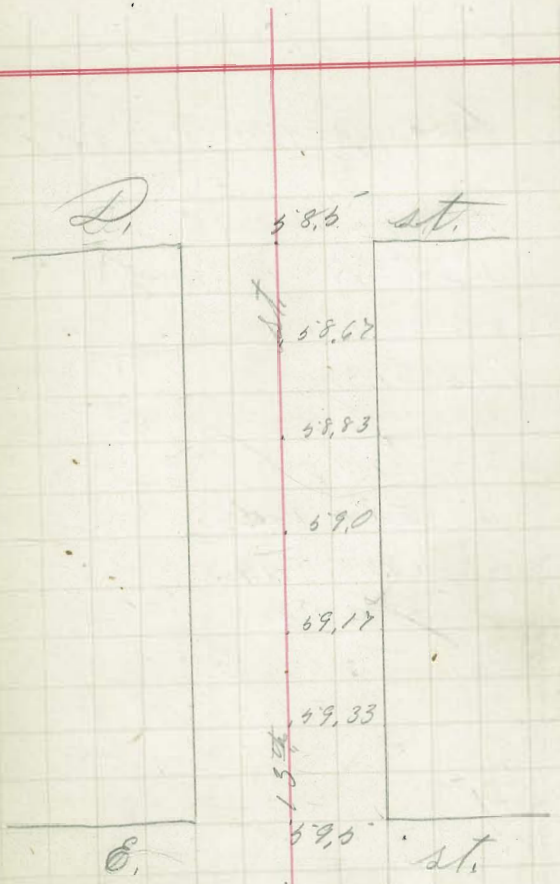
checked by Shaw

55 March 13 1888

Grades for Water
Co Set D E on
13th st.

IH 8 62.72 61.24

Rod	El	gr	fill
6.8	54.4	58.5	4.1
7.2	54.0	59.0	5.0
4.3	56.9	59.5	2.6



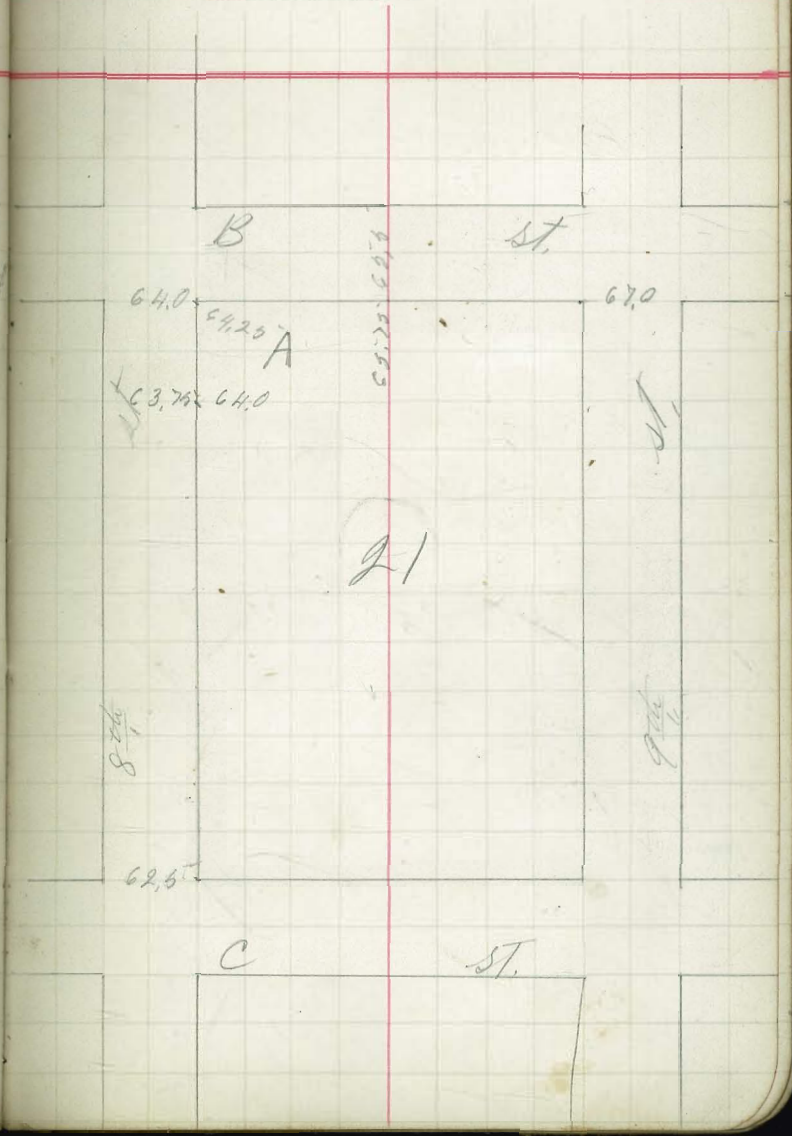
57 March 15 1888

531

Two grades for
Pump Position
Lot A Blk 21 Hobbs add

7.73	69.39			61.66

Elev	Rod
64.20	5.14
65.75	3.64



59

March 16 1888

Estimate of excavation for Gorge Suspension

2509.2 yds. in Main excavation at 50 cts per yd. = $1254.60

203 yds in wall ex. at 80 cts per yd = $170.40

Total $1425.00

50 cts

15' X 12' X 50' S.W. excavation

48.3 X 12' X 87.8 Main ex.

12' X 12.5' X 5' 1.3 East end ex.

80 cts

Wal. 50' X 3.2 X 1.8' wall ex

No 2 5.0 X 1.5' X 1.8' " "

10' X 3' X 8' " "

1' X 12' X 23'

two piers 5' X 5' X 1.5'

8' X 5' X 116.3

50' X 3.5' X 1.8'

15' X 2.5' X 1.8'

18' X 3' X 1'

2.5' X 5.5' X 1.8'

March 17 1888

982 41.33 31.57

5 x 25 x 9

40 x 14 x 3,5

27741 (@ yds)

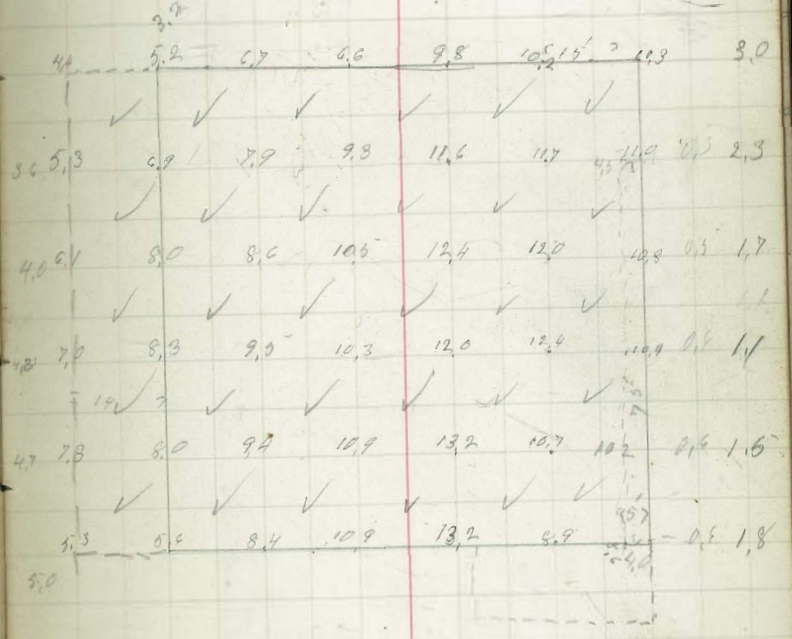
= 1303,83

Estimate March 31-87.

3/20 March 87

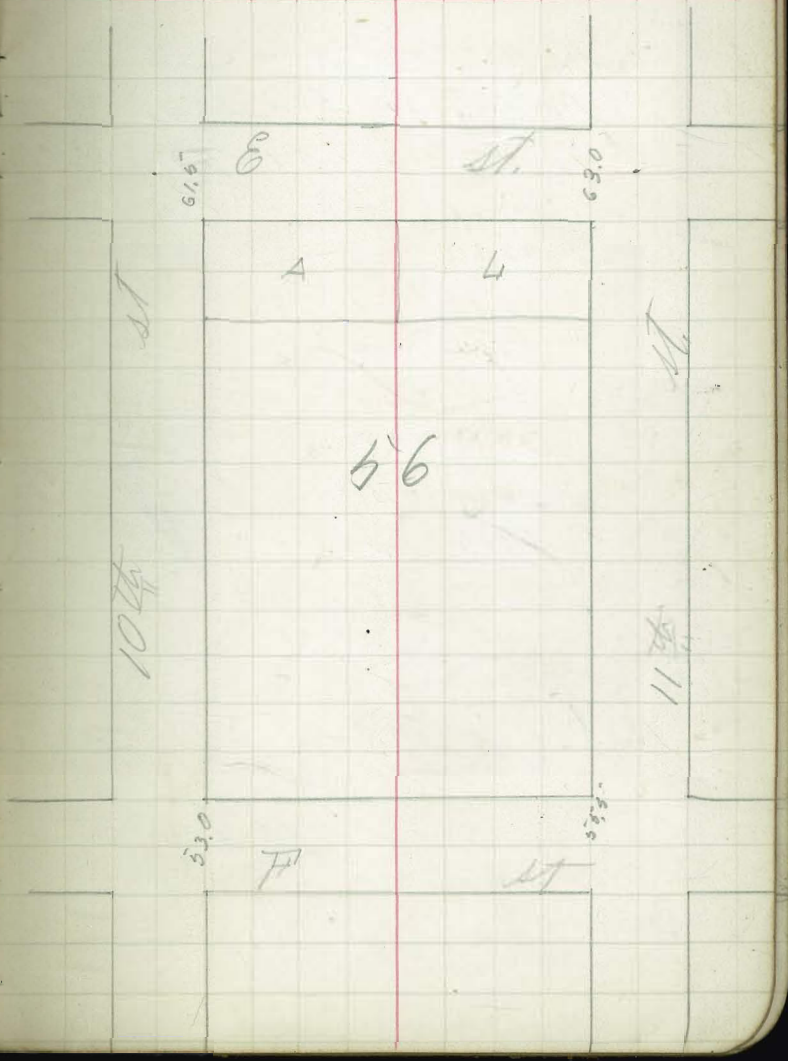
47 work

33



63 March 21st 88

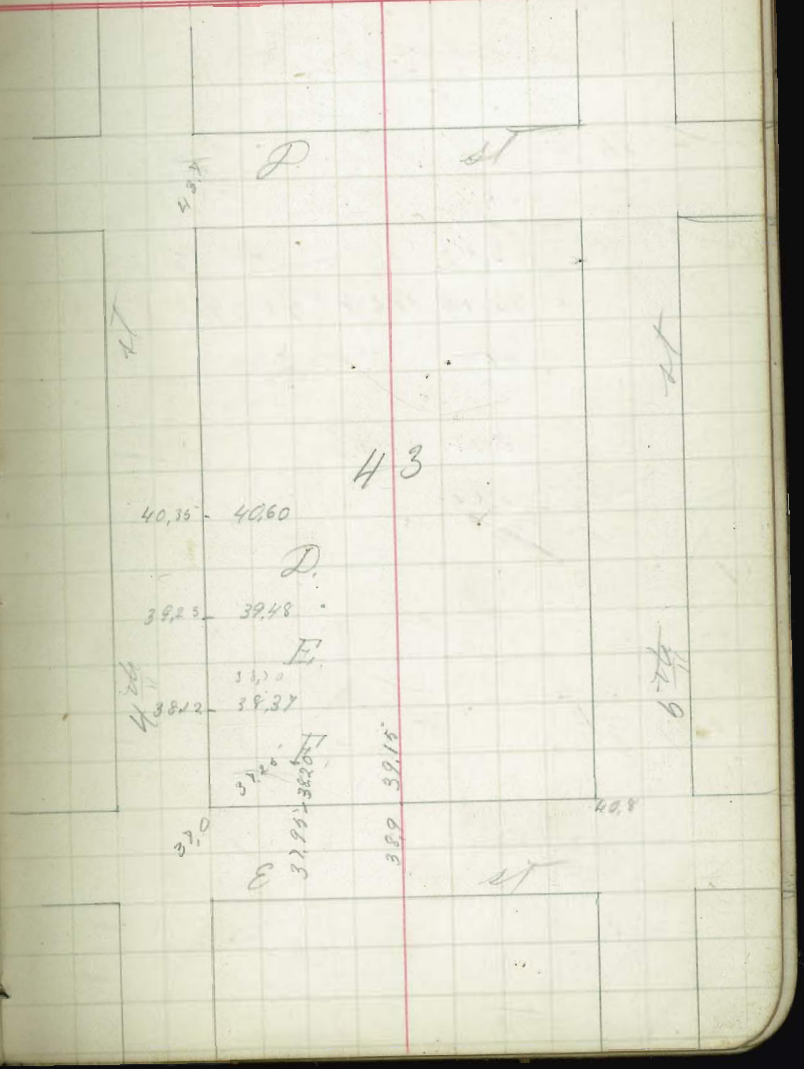
Grades for
Dr Quinn
Blk 56 lots 1, 2 & 4,
Haulard's add.



Grades for Pauly & Gaisen

Blk 43 Lots D, E & F Hoboken

	10,7 c	42,10			31,34
	0.7 f	31,18	11,67	30,43	
		Elev	Rod		
		37,21	4,84		
		38,20	3,40		
		40,60	1,50		
		39,15	2,95		
N.E. cor	Elev	N.W. cor	Elev	S.W. cor	Elev
4,6	26,58	4,9	26,28	5,08	26,10
S.E. cor	Elev	center of Excav.			
3,9	27,28	5,2	25,98		



67

March 24 1885

68

36

E

W

						B. H.	SW H	C	SW H	B H
Ste	X soundings on									
	14 H st for Capitol									
	15.2	62,76			61,24					
	41 2	37 19	9,69	53,07						
3						4,8	4,5	4,9	4,2	4,0
+25						5,0	5,3	5,9	5,0	4,9
+50						6,0	6,6	6,3	5,7	5,1
+25						7,3	6,8	6,5	5,4	4,9
2						7,4	7,4	6,1	5,6	5,6

March 29 1888

Grades for
construction on

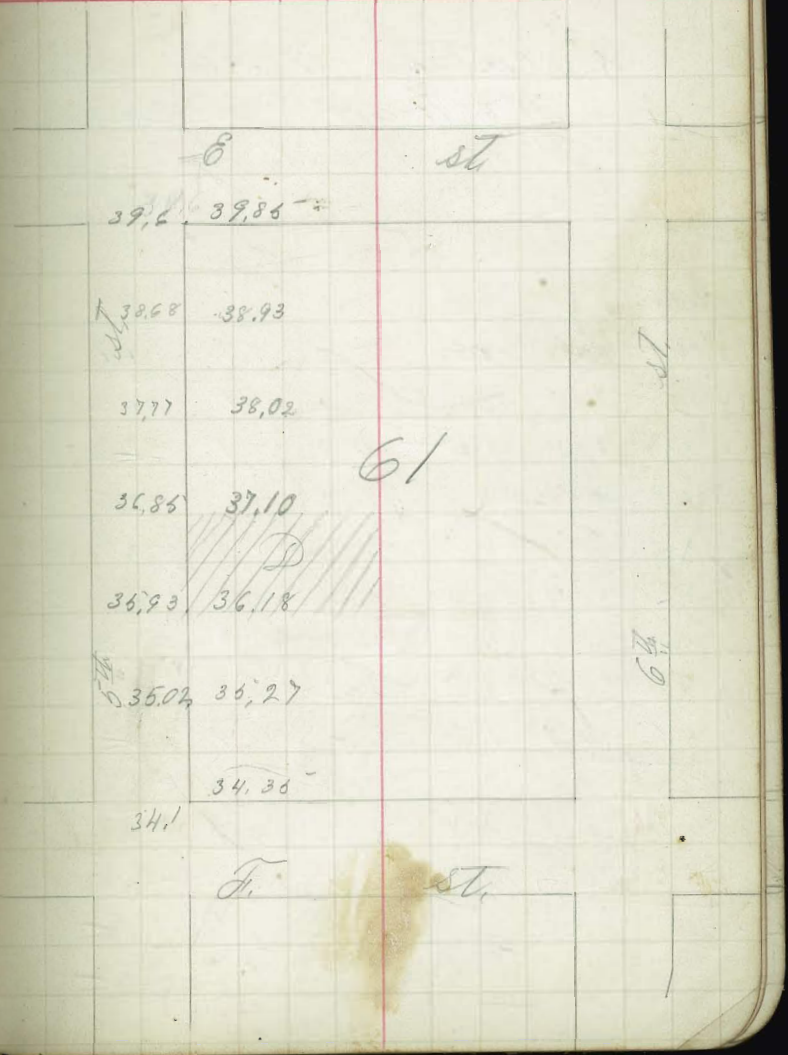
Lot D Blk 61
Koch's add.

6.72 41.67 34.95

37.10 4.57

36.18 5.49

37.10
4
37.5



March 31 1888

X section of Blk 26 in R & Add for H. P. Whitney

	(a) 2,5		(b) 25,26		(c) 22,23	
	R	E	R	E	R	E
(1)	1,8	23,3	7,7	17,6	16,1	9,2
(2)	1,4	23,9	7,1	18,2	6,2	1,7
(3)	1,2	24,1	10,1	15,2	8,1	-0,2
(4)	7,5	17,8	17,4 (18,3)	6,9	10,1	-2,2
(5)	16,0	9,3	18,0	0,3	10,6	-2,6
(6)	17,6	7,7	15,7	2,6	11,0	-3,1
(7)	4,6	20,7	14,5	3,8	11,0	-3,1
(8)	4,4	20,9	5,3 (7,9)	2,6	11,1	-3,2
(9)	3,3	22,0	5,7	2,2	10,9	-3,0
(10)	5,6	19,7	7,8	0,1	10,9	-3,0
(11)	5,8	12,5	7,6	0,3	10,9	-3,0
(12)	6,4	11,9	9,7	-1,8	10,9	-3,0
(13)	7,6	10,7	10,7	-2,8	10,9	-3,0

25,25
11,80
13,45
4,82
18,91
1,2
6,71
1,6
7,31

(a) x y — 29 7/12 sq ft — Cu. feet

a	b	c	d	e	f	g	Ave.	Ave.	Cu. feet
117.3	5.4	28	6.7						3579
169.0	8.5	26	5.8						5087
238.0	7.0	34	3.3						10125
572.0	14.3	40	3.4						16355
734.8	16.7	44	1.5						18270
726.8	15.8	46	1.6						18772
775.0	15.5	50	0.0						10912
98.0	2.8	35	1.2						2492
101.4	3.9	26	3.6						94
695.0	31.5	11.8	5.0	42.5	15	14.8			9955
1390.0	373.7	17.7	5.0	10.13	13.5				26062
1470.0	550.0	16.9	12.5	14.6	1.8				5065
1365.0	875.10	139.12	5.6	11.7	5.0	5.8	24	6.2	35750
									11546
									35437
									17817
									900

228193

28 7/12 sq ft

228193 Cu ft = 8451 Cu Yds.

	D		E		F	
	K	E	K	E	K	E
(1)						
(2)						
(3)	11,3	-3,4				
(4)	11,4	-3,5				
(5)	11,0	-3,1				
(6)	11,1	-3,2				
(7)	11,0	-3,1	-10,1	-2,2		
(8)	10,9	-3,0	10,5	-2,6		
(9)	11,0	-3,1	10,8	-2,9	10,2	-2,3
(10)	11,0	-3,1	10,9	-3,0	10,3	-2,4
(11)	11,0	-3,1	11,6	-3,7	10,2	-2,3
(12)	11,2	-3,3	11,1	-3,2	10,6	-2,7
(13)	10,9	-3,0	11,3	-3,4	10,9	-3,0

7,9

K	E
10,3	-2,4
10,3	-2,4
10,6	-2,6

75

April 4 1888

Estimate of cellar at N.E. cor. of 7th & Grats. for Griffith

Original ground Elevations in Cuts are obtained by averaging East & West Outside Elevations

Red figs indicate amt of cut.

840		3296	
1085		3255	
1085			
690		6551	
2847		87842	
8094			
2969		94393	
2250		2996	deduct
4360			
5531	27	91397	3381 yards
6397		81	
5610			
5660		103	
6328		81	
6610			
5985		229	
5812		216	
6828		13	
7141			
6720			
87842			

Certificate Mch 31/88

76

Elevations by Fulton

Calculations by G.H.S. 4/4/88

40

Charge 7 50.

9.83 41.34 31.51

3.4 3.5 3.9 3.7 2.6

4.8	3.5	6.9	13.2	11.4	11.1
.6	.1	.3.4	9.3	7.7	8.5
5.9	3.4	6.7	11.7	12.9	12.7
2.7	3.7	.6.4	8.8	10.4	10.6
5.4	4.4	5.3	13.3	12.9	13.1
.1		9.7	10.5	10.8	11.7
4.1	5.5	5.6	13.3	13.2	13.3
2.2	3.7	9.4	10.3	11.1	12.1
3.4	4.0	12.0	13.1	12.7	13.0
0	2.0	(3.1) (7.5)	8.7	8.2	11.6
			11.1	12.7	13.6
			6.0	8.2	9.2

5.0 4.9 4.9 4.4

76 x 85 x 4.7 to be subtracted

cu yds 47.67 - 7 x 3 x 60 in ditch

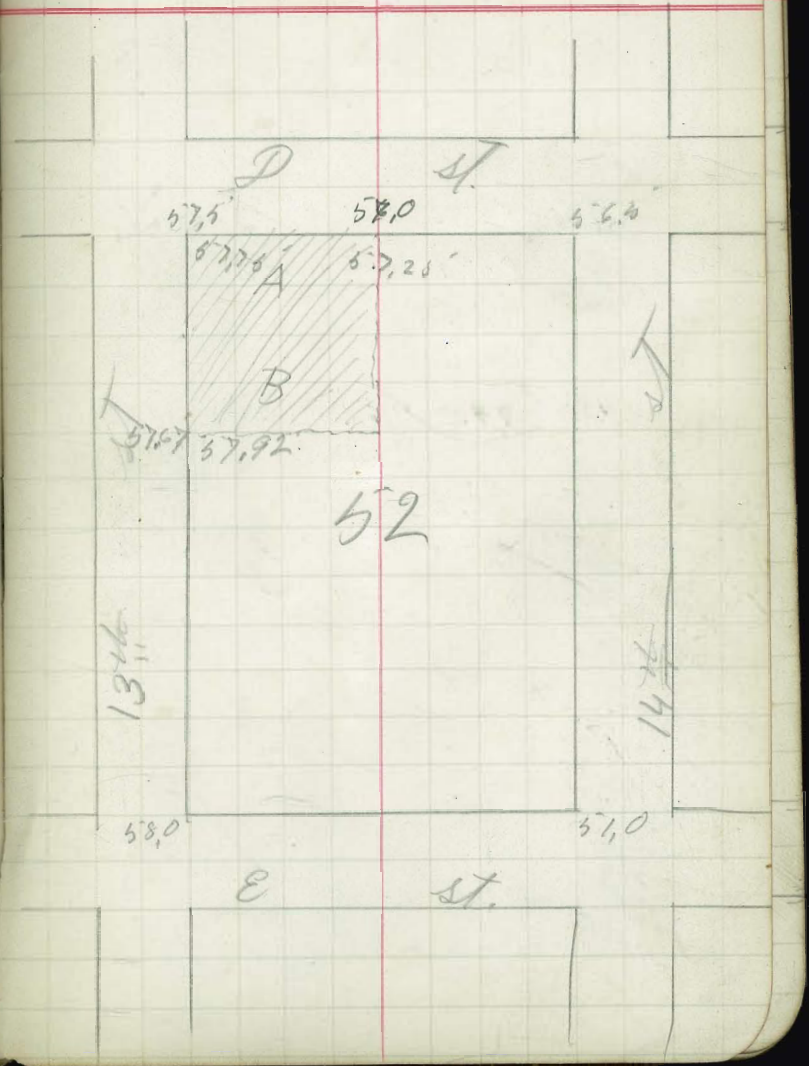
April 6

Grades for Sanford,

Blk 52

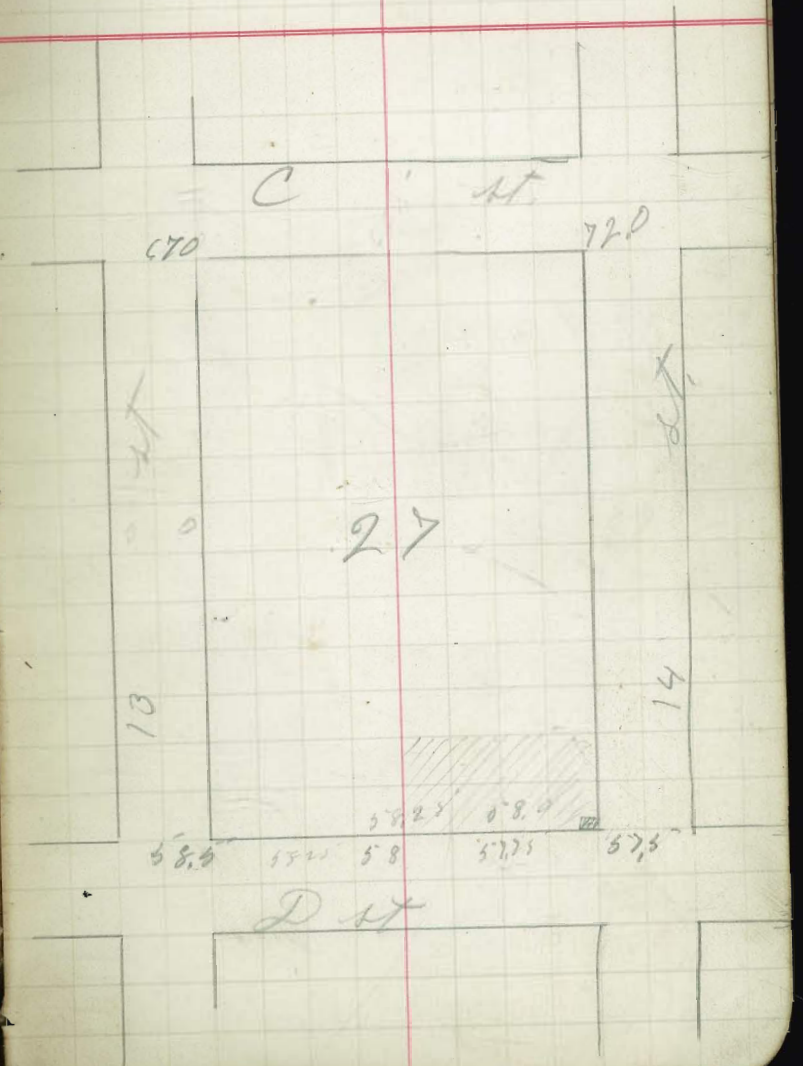
Lots A & B Kent's add

1,12	62,36			61,24
2,20	58,95	4,61	57,75	
57,52	4,44			
57,75	4,61			
57,25	2,70			



11,2 c2,36 c1,24
2,20 5,995 4,61 57,85

5'50 1,53



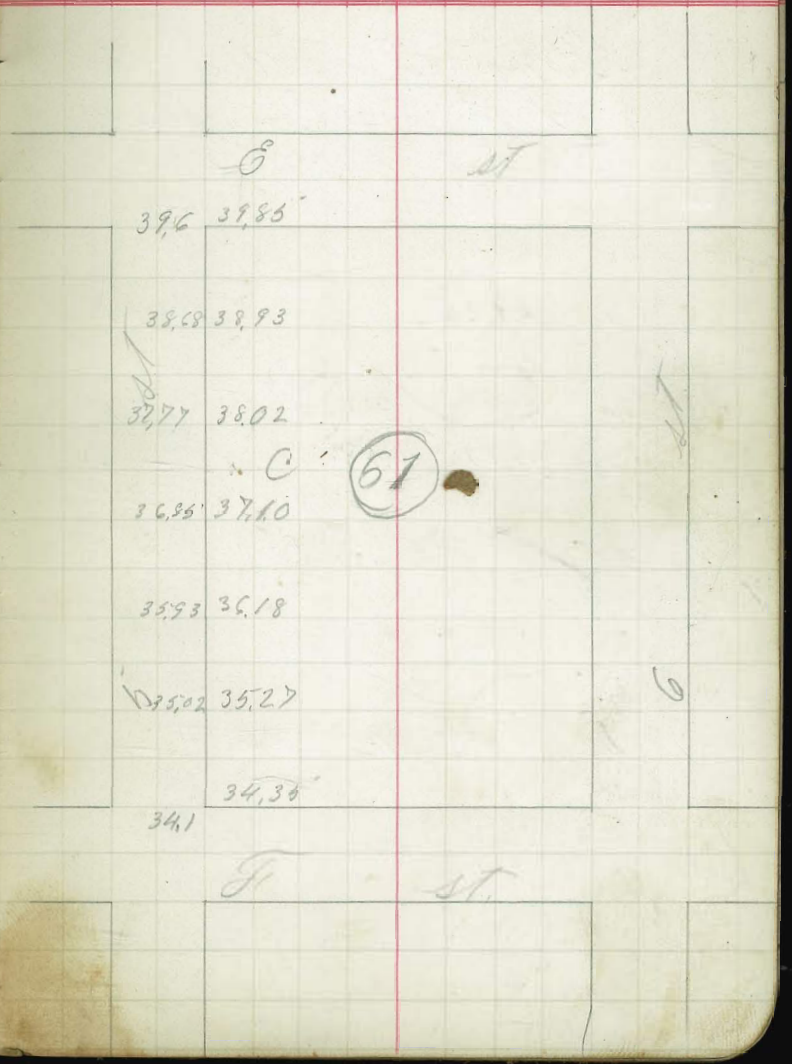
81

492
4c

April 11. 88

Grades for
Bank of Commerce

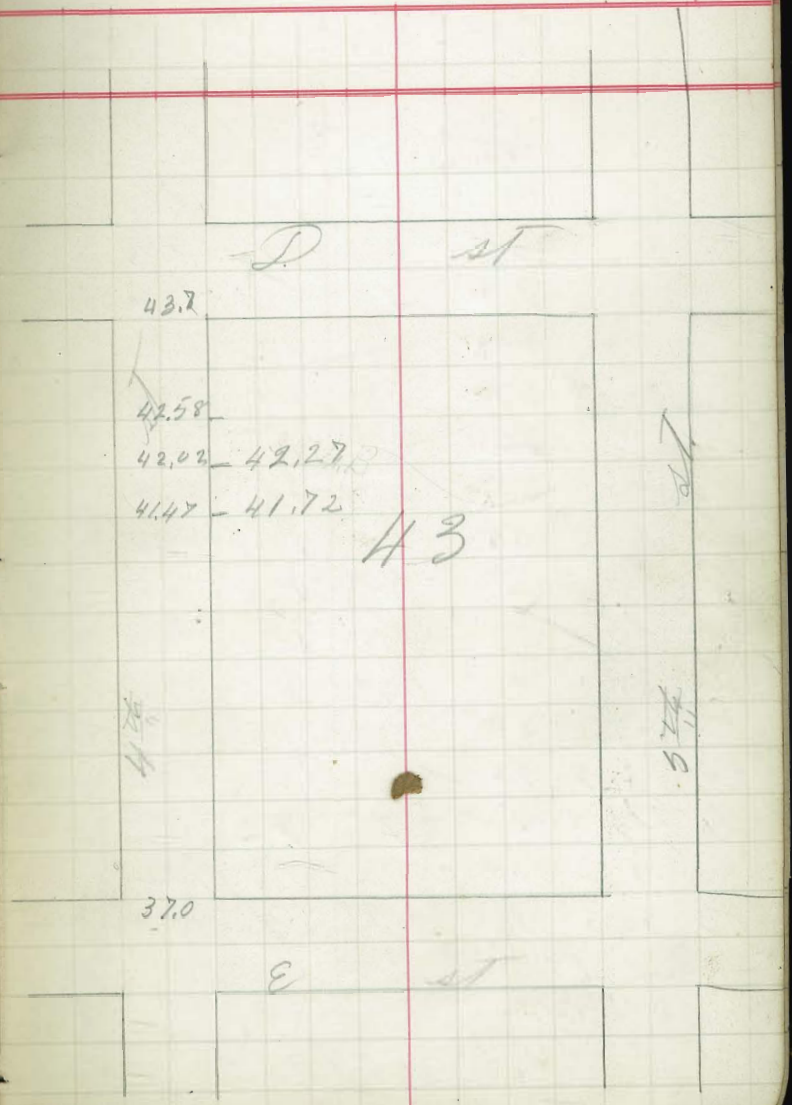
7,5-8	42,53		34,93
	38,02	4.51	
	37,56	4.97	



April 13 '88

Town Grades for
G H Schmidt M.D.
S½ Lot 13 Blk 43 H.A.

6 22	46.22			40.00
	42.27	3.95		
	41.72	4.50		



Check levels on 7th over L & T's St. K. R.

Rod	Elev	Gr	Rod	Elev	Gr
		M	8,8	11,7	K
		3,0	8,3	12,2	11,8
		3.3	7,8	12,7	12,4
		3.7	7,1	13,4	13,0
		4.0	6,7	13,8	13.6
		4 33	6,1	14,4	14,2
		4,7	5,4	15,1	14.9
		5.0	4,6	15,8	15.5
		L	4,3	16 1	J
6,9	7,0	6,3	3,6	16,8	16,3
6,4	7,5	7.2	2,9	17,5	17,1
5,7	8,2	8.2	2,3	18,1	17,8.
5,0	8,9	9,1	11,3	18,8	18.6
4,2	9,7	10,0	10,9	19,2	19,6
10,1	10,4	11,0	10,4	19 7	20.1
9,3	11,2	11,9	9.7	20 4	20,8
					J

St.				
0				
+				
1				
+	3,48	13,90	10,08	10,42
2				
+		20,50	6.66	13.77 84
3				
+				
0				
+				
1	7,62	20,43	11,32	18,81
+				
2				
+				
3				

Rod	Elev	Gr	Rod	Elev	Gr
8,2	20,9		4,6	36,1	
9,2	20,9	20,8	4,1	36,6	36,5
8,2	21,9	21,7	3,3	37,4	37,3
7,3	22,8	22,6	11,9	38,4	38,1
6,3	24,8	23,5	10,9	39,4	38,9
5,3	24,8	24,5	10,0	40,3	39,7
4,4	25,7	25,4	9,4	40,9	40,5
3,7	26,4	26,3	8,9	41,4	41,3
3,0	27,1	A	8,7	41,6	F
2,0	28,1	27,8	8,2	42,1	41,5
11,5	29,2	29,1	7,7	42,6	42,1
10,3	30,4	30,3	7,3	43,0	42,8
9,1	31,8	31,6	6,7	43,6	43,4
7,7	33,0	32,8	6,0	44,3	44,0
6,4	34,3	34,1	5,3	45,0	44,7
5,3	35,4	35,3	4,7	45,6	45,3
		G			E

0				
+				
1				
+				
2				
+				
3				
0	0,85	30,13	11,45	29,28
+				
1				
+				
2				
+				
3	2,32	40,73	11,85	38,41

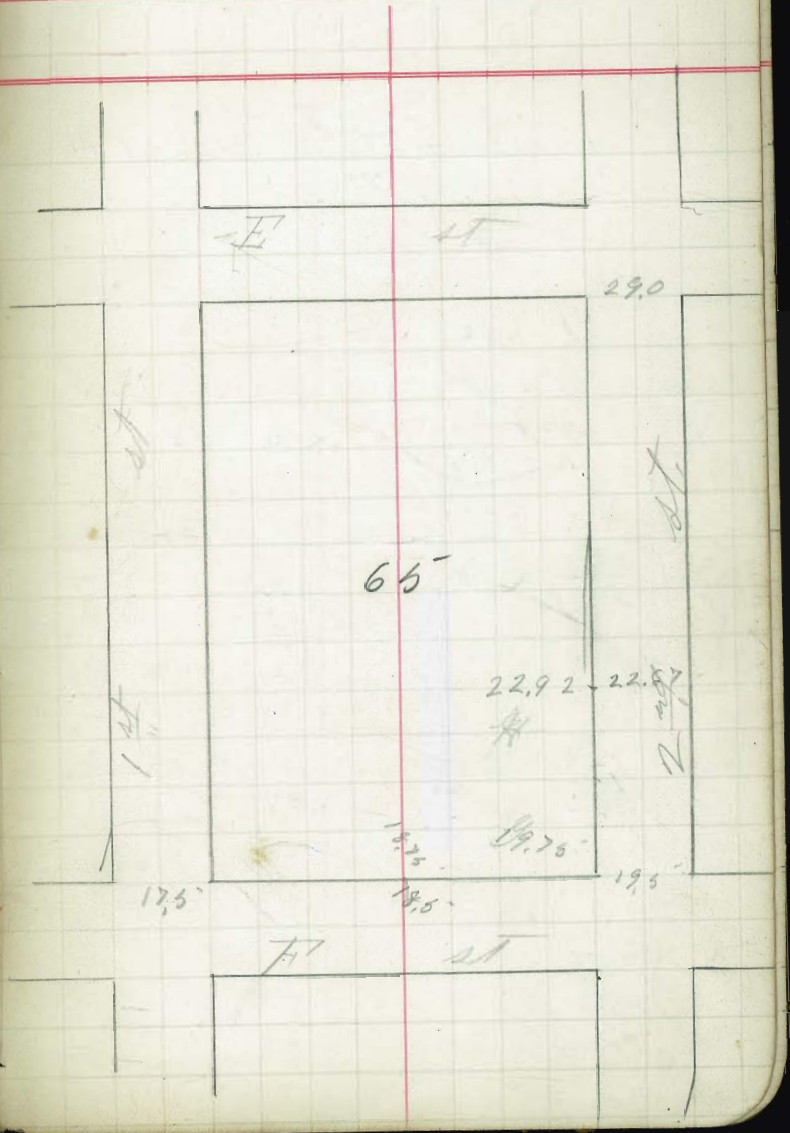
Rod	Elev	Gr	Rod	Elev	Gr
4,0	46,2	E	1,6	60,2	C
3,4	46,8	46,3	1,4	60,4	59,8
2,4	47,8	47,6			60,1
1,3	48,0	48,8			60,4
11,5	50,3	50,1			60,7
10,2	51,6	51,3			61,0
9,2	52,6	52,6			61,2
8,2	53,6	53,8			61,5
7,9	53,9	D			18
7,2	54,6	54,5			
6,3	55,5	55,4			
5,3	56,4	56,3			
4,4	57,4	57,2			
3,5	58,3	58,0			
2,6	59,2	58,9			
2,0	59,8	59,8			
		C			

0			
+			
1	001 50 26	11,54 50,25	5
+			
2			
+			
3			
0			
+			
1			
+			
2			
+			
3	2,6,1	6179	59,18

April 17 1888

Grid grades for
Mr Battell
65 G, K, B, L, 65 H, 9,

5,21	25,23			20,02
		8,00	17,23	17,24
19,75	5,48			
22,92	2,31			
18,75	6,48			



93

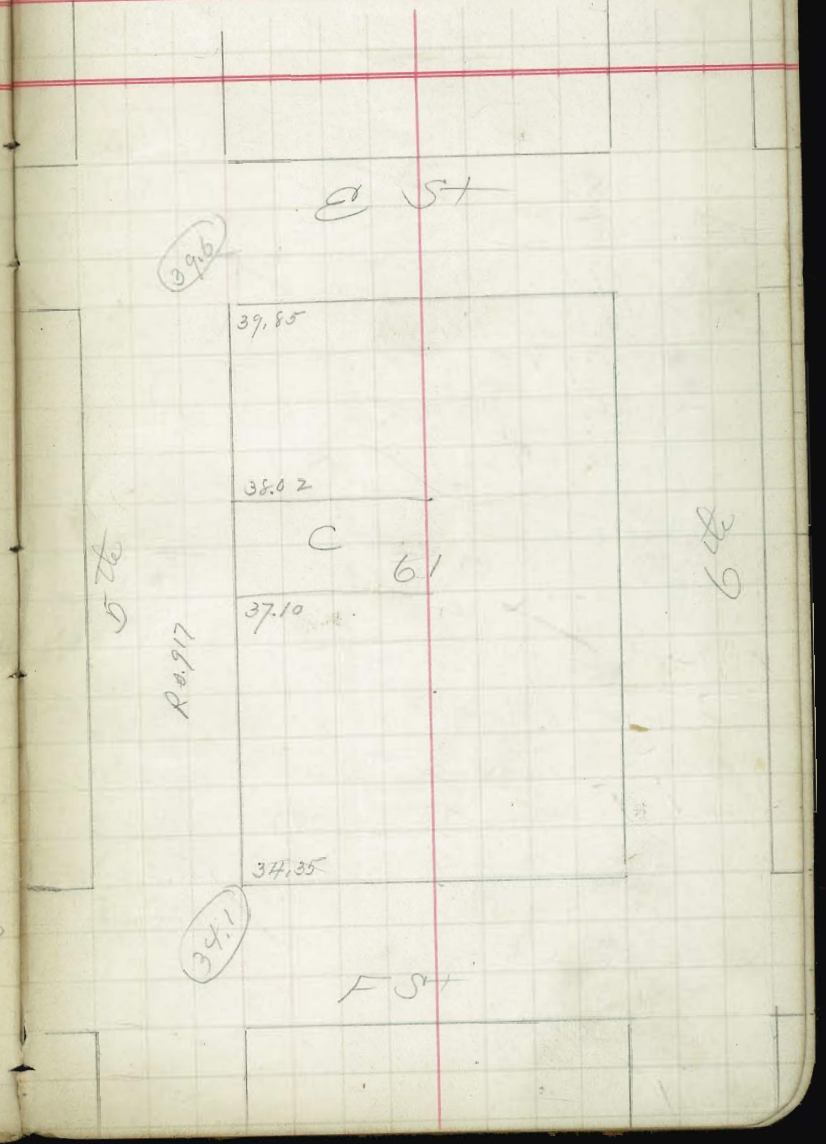
49

7-31-87

G. C. Clements

Grades Lot C Blk 61 Ala
Louis Building
Chg ½ to Louis"
½ to Bank of Commerce

	+	+	−	El		
BM	4.27	52.00		47.73		SD
X	2.28	43.61	10.67	41.33		R
NS lot C			5.24		38.02	5.59
SS "			5.795		37.10	6.51
X	7.37	41.73	9.25	34.36		
B.M.			4.34	37.46		6 F
B.M.			6.42	35.38		
B.M.		41.40	4.34	37.06	37.06	
X	8.15	42.18	7.37	34.03		
Sta IN			4.14	38.04	38.02	C 0.02
" 2S			4.63	37.55	37.10	C 0.43
X	10.58	51.21	1.55	40.63		
BM			3.47	47.74		4 D



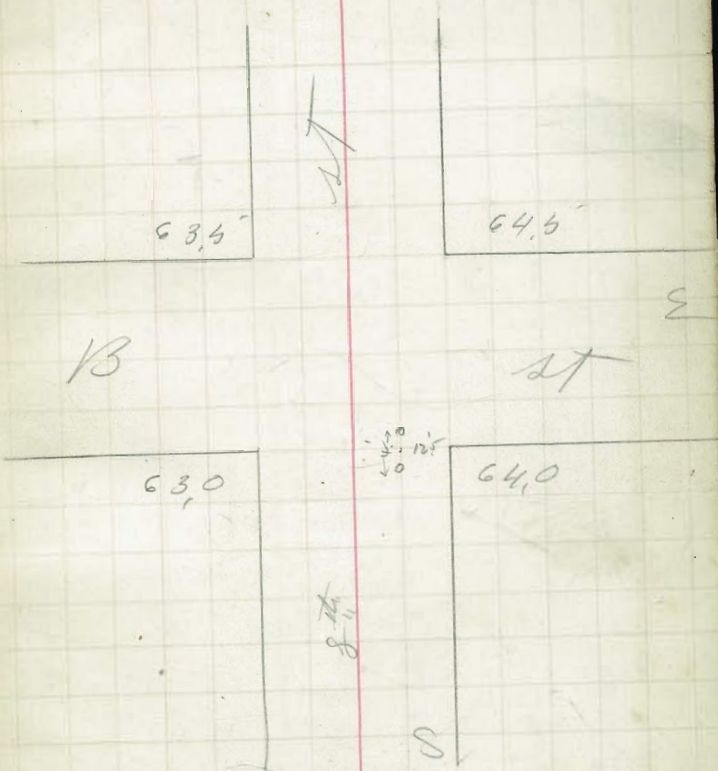
95

Lft M SE cor
on line of B. St.
12.5 W of E line 8th St.

61.660 BM 6" SW cor.
+6.786
68.446 H.I.
- 64. Curb grade
4.446

Note:
E.J.W + Donovan ran the transit
party + put the plug 14' out
from property line in place
of 12.5' as the water Co. ordered
(away)

Apl 20-88



Bill	+	Mdse	−	Ext
(Bill 4 Mdse) Bill	4.30	266.96		262.66
			1.40	

50

34.35
2 75
37.10
.917
08.017
1833

114
114
456
114
1299 6
1299 6
27 | 1425.6 (52.91
135
78
54
245
243
26

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

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

TRAVERSE TABLE FOR TRANSIT BOOK,

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19 94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91 18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90 26	43 05	90.07	43 44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49 24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82 66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78 26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67 88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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