City Engineers Office
City Hall, San Diego, Cal.

400 LEVEL

F. B. 392

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

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	$2\frac{1}{3}$	21	49	41	$95\frac{2}{3}$
2	$4\frac{2}{3}$	22	51	42	98
3	7	23	$53\frac{1}{3}$	43	$100\frac{1}{3}$
4	$9\frac{1}{3}$	24	56	44	$102\frac{2}{3}$
5	$11\frac{2}{3}$	25	$58\frac{1}{3}$	45	105
6	14	26	$60\frac{2}{3}$	46	$107\frac{1}{3}$
7	$16\frac{1}{3}$	27	63	47	$109\frac{2}{3}$
8	$18\frac{2}{3}$	28	$65\frac{1}{3}$	48	112
9	21	29	$67\frac{2}{3}$	49	$114\frac{1}{3}$
10	$23\frac{1}{3}$	30	70	50	$116\frac{2}{3}$
11	$25\frac{2}{3}$	31	$72\frac{1}{3}$	51	119
12	28	32	$74\frac{2}{3}$	52	$121\frac{1}{3}$
13	$30\frac{1}{3}$	33	77	53	$123\frac{2}{3}$
14	$32\frac{2}{3}$	34	$79\frac{1}{3}$	54	126
15	35	35	$81\frac{2}{3}$	55	$128\frac{1}{3}$
16	$37\frac{1}{3}$	36	84	56	$130\frac{1}{3}$
17	$39\frac{2}{3}$	37	$86\frac{1}{3}$	57	133
18	42	38	$88\frac{2}{3}$	58	$135\frac{1}{3}$
19	$44\frac{1}{3}$	39	91	59	$137\frac{2}{3}$
20	$46\frac{2}{3}$	40	$93\frac{1}{3}$	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

Crocker Quality

LEVEL BOOK

LEVEL BOOK

276.61 NE page 30th

No. 400

COMMUNI CONSENSU TRADE MARK PRIMO

MANUFACTURED BY

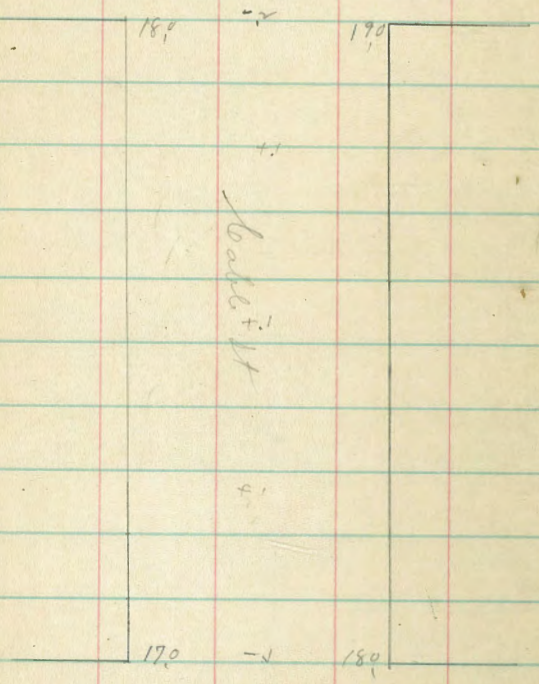
A. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO

Check Grades
O B Rark

Clough
Dinner
Rodgers } Jan 26 10

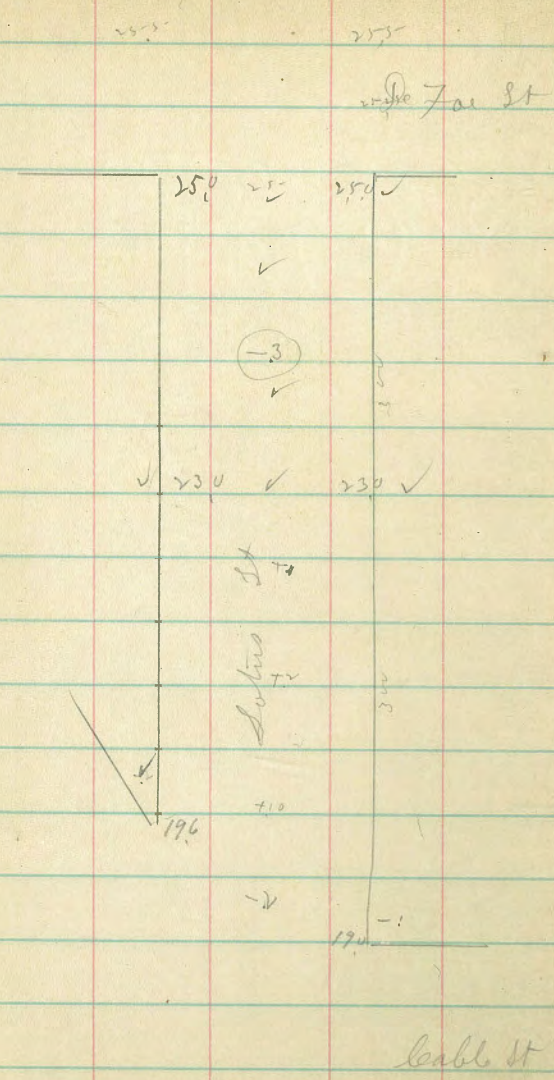
Lotus St



Voltair St

BM	17.0	17.5	18.0
17.69	5.48	5.0	4.48
4.79			
22.48			
	18.0	18.5	19.0
	4.48	3.98	3.48

Check Grades



22.48 ~~+~~ 3
1.39
21.09 T.P.
6.71
27.80

19.0
3.48

19.4
3.08

19.8
2.68

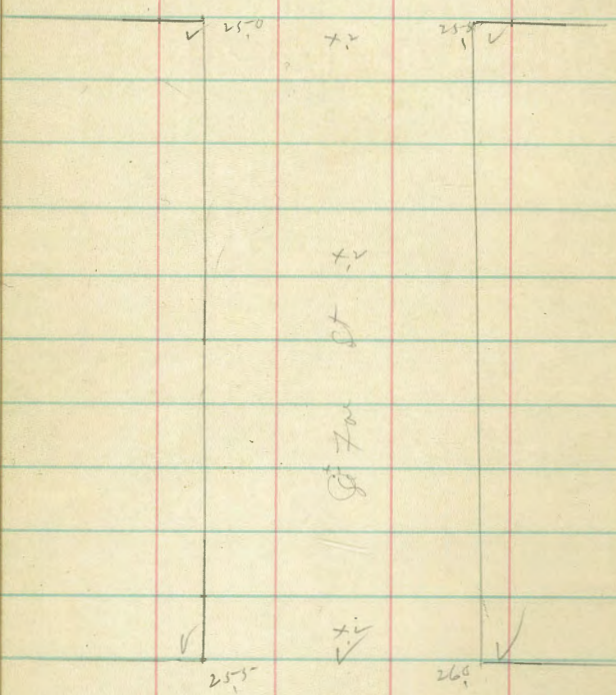
23.02
4.80

25.0
2.80

25.5
2.30

25.25
35

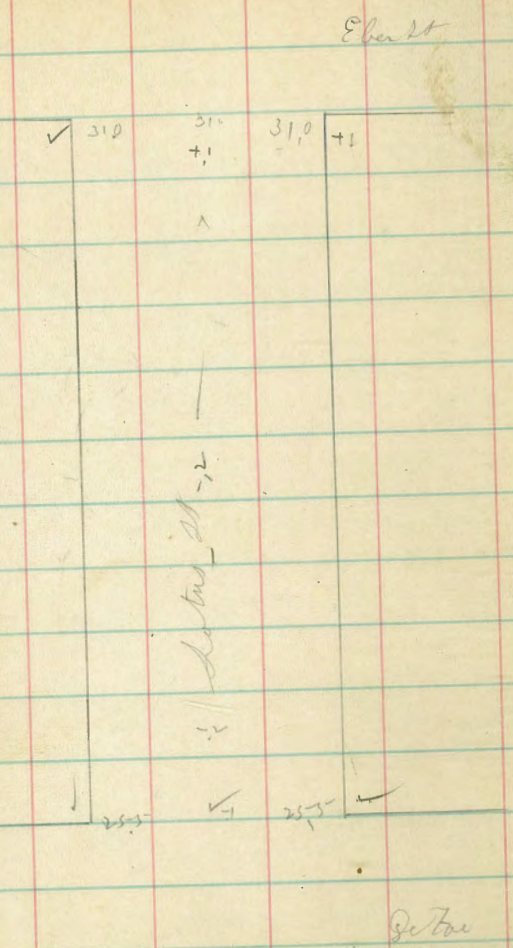
Latus st



Voltari

Bm
2614
489
31,03

25,5	25,75	26,00
5,53	5,28	5,03
25,00	25,25	25,5
6,03	5,78	5,53



Bm
2614
4.89
31.03

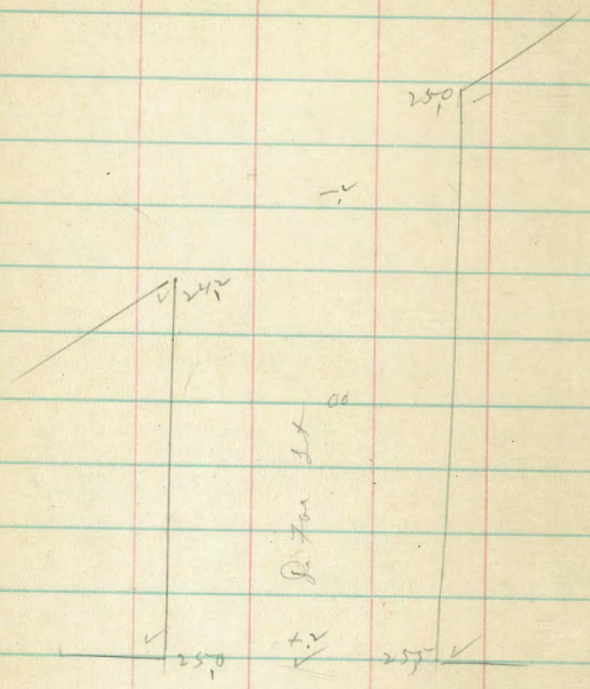
25.5
5.53

25.50

Bm

31.04 Eber
5.18
36.22

31.00
5.22



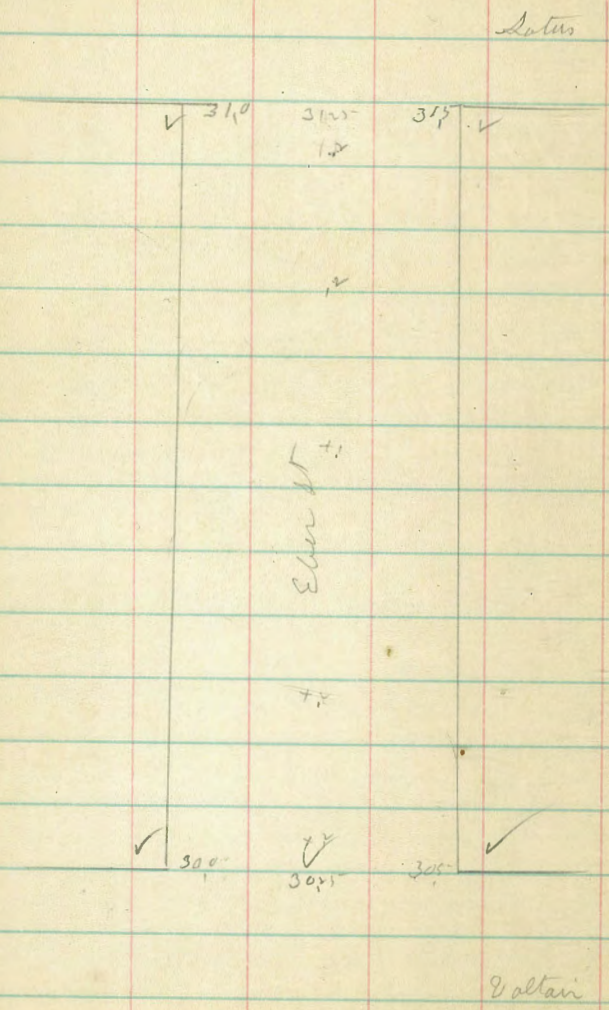
Satus 20

31.03 H.D.

250
6.03

2525
578

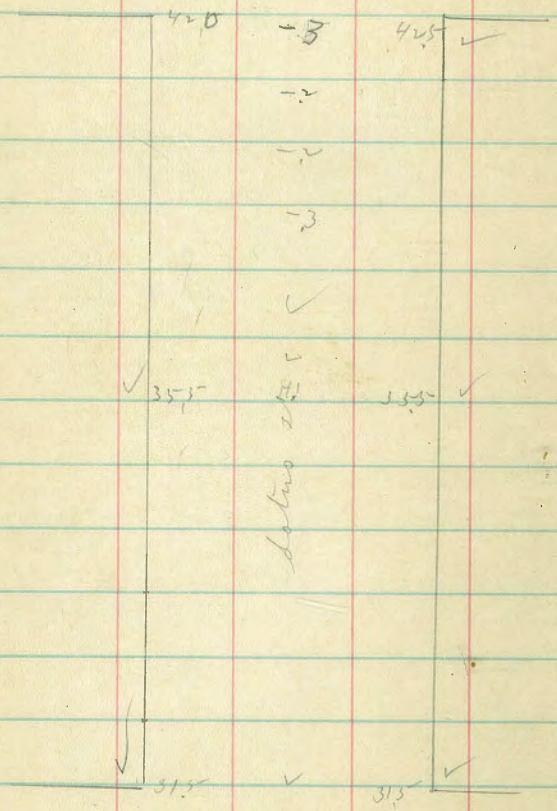
255



30,22

30,0	30,25	30,50
6,22	5,97	5,72
31,00	31,25	31,50
5,22	4,97	4,72

Froude



Eber St

36.22 H3	31.5 4.72			
38.24 H7	35.5 2.74			
49.68 H7	42.5 7.18	42.25 7.43	42 7.68	

Green St

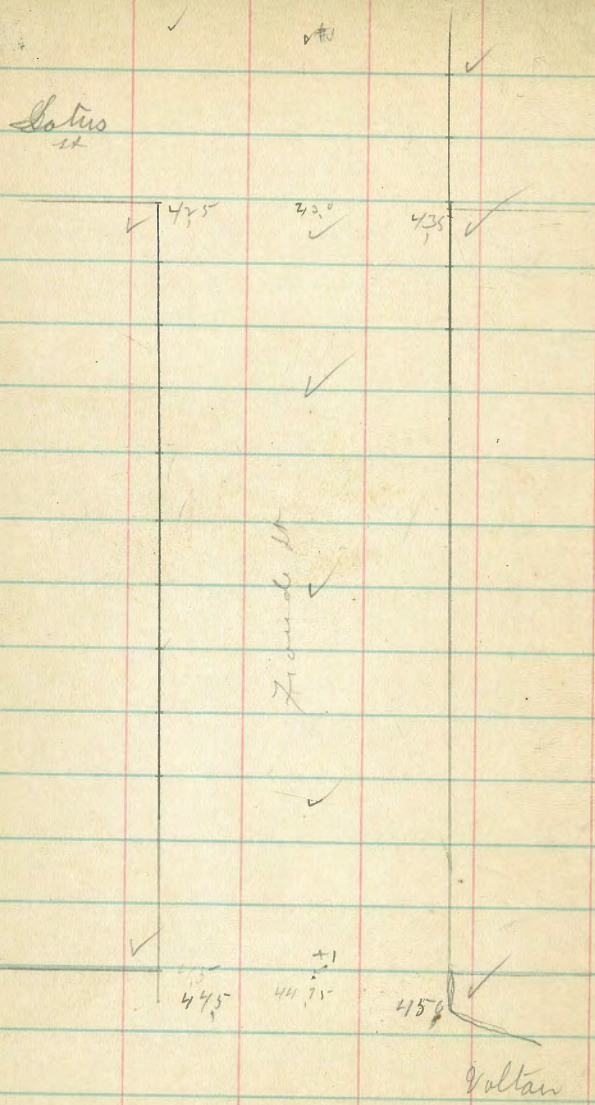
✓	31.0	31.25 +4	31.5	✓
5	31.5	✓ 31.75	32.0	✓
✓	31.0	+3 31.25	31.5	✓

Eber St

Lotus

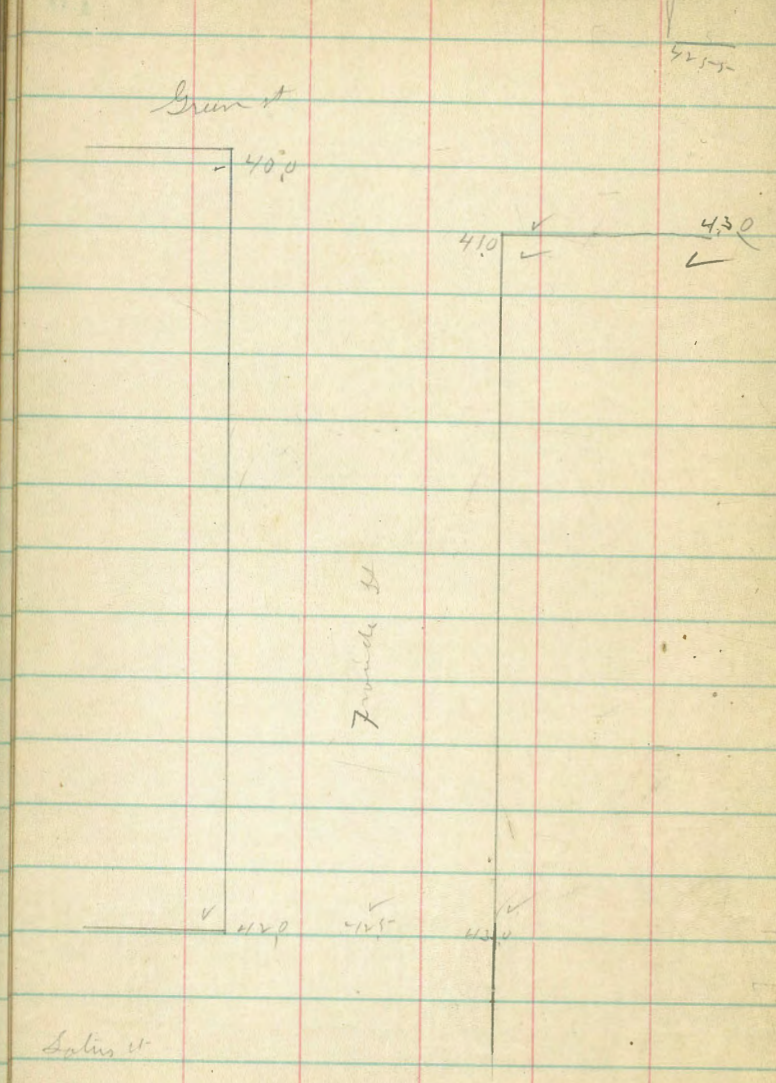
36.22	H J	31.00 5.22	31.25 4.97	31.50 4.72
3.91				
32.31	Bm Lotus & Eb			
5.93				
38.24	H J			
35.81	H J	31.0 4.81	31.5 4.31	31.25 4.56
		31.75 4.06		

Latus



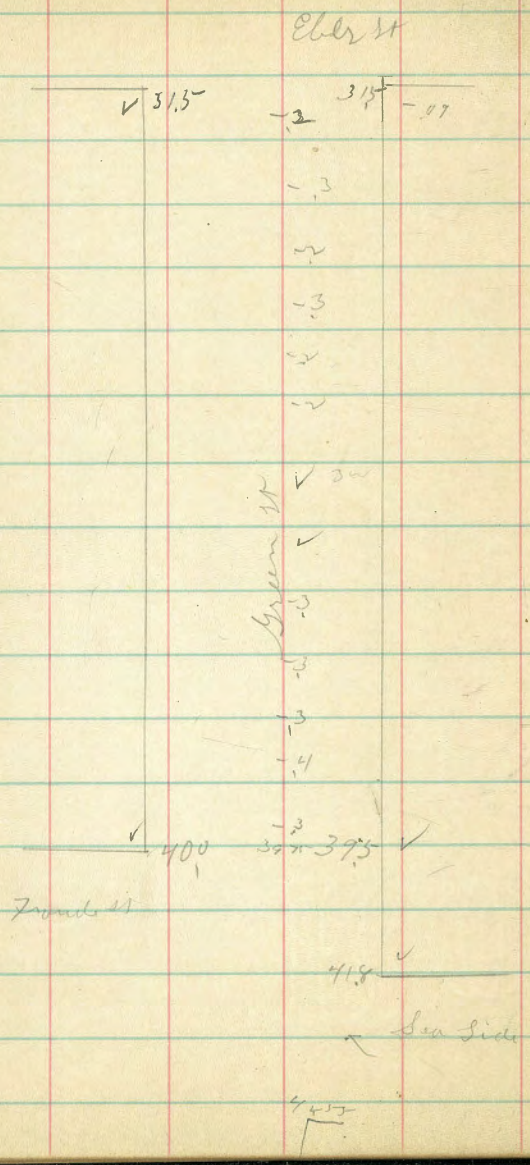
Bm
45.00
4.68
49.68
6.70
42.98 Bm

45.0	44.75	44.5
4.68	4.93	5.18
42.5	43.00	43.5
7.18	6.68	6.18



42.94 BM
3.48
46.42

40.0	40.5	41.0	43.0
6.42	5.92	5.42	3.42



42.98 Bm

3.48
46.46
4.66
41.80 Bm

42.55
3.91

40.00
6.46

42.77
4.44

39.75
6.71

39.50
6.96

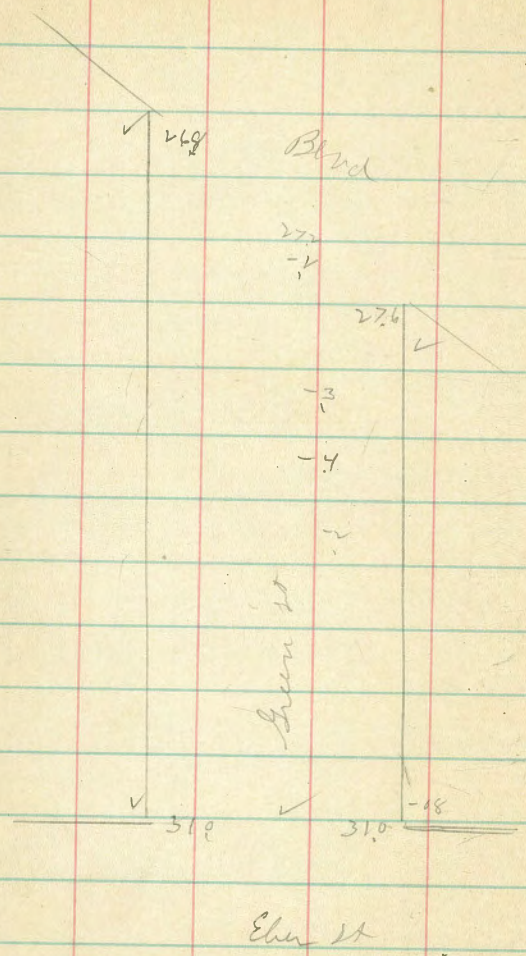
41.8
4.66

42.55
41.8
4.75

41.8
3.7
42.55

32.31 Bm
3.50
35.81

31.5
4.31



3581 HJ

31.0
4.81

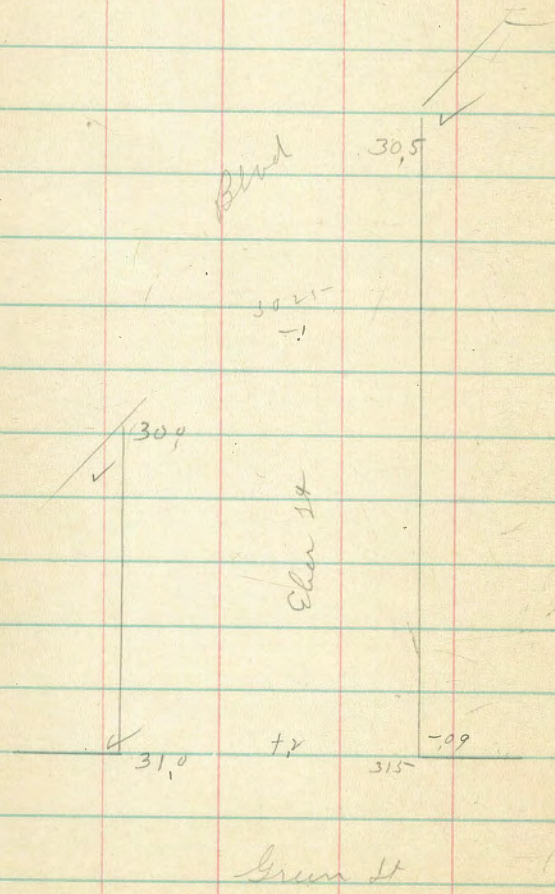
26.8
9.0

27.2
8.61

27.6
8.21

27.6
26.8
.8

26.8
27.2



35.81 Bm
3.45
32.36 Bm
2.60
34.96 Hr

31.00
4.81

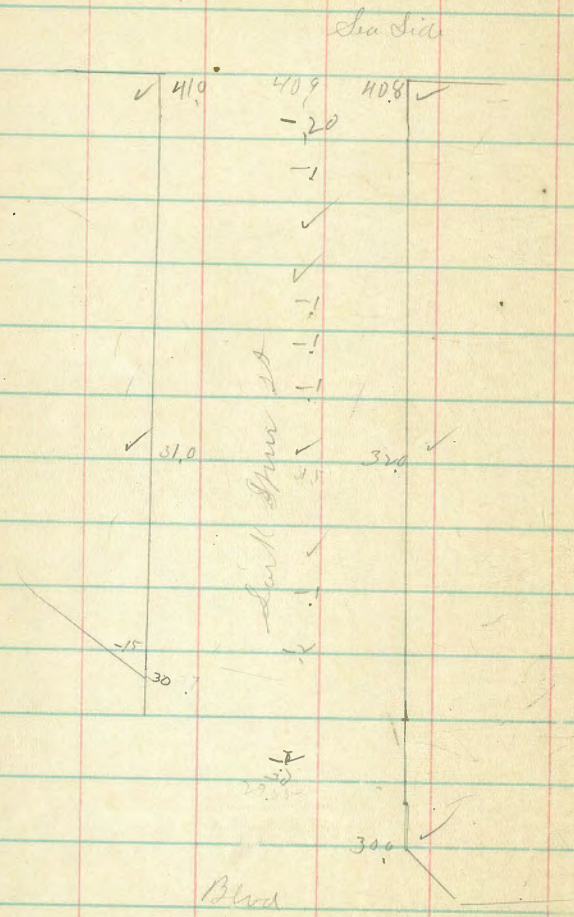
31.25
4.56

31.5
4.31

30.00
5.81

30.25
5.56

30.50
5.31



34.96 HJ

30.0
4.96

29.85 Br
5.27
35.12 HJ

31.00
4.12

32.0
3.12

31.5
3.62

35.12
4.96
30.16

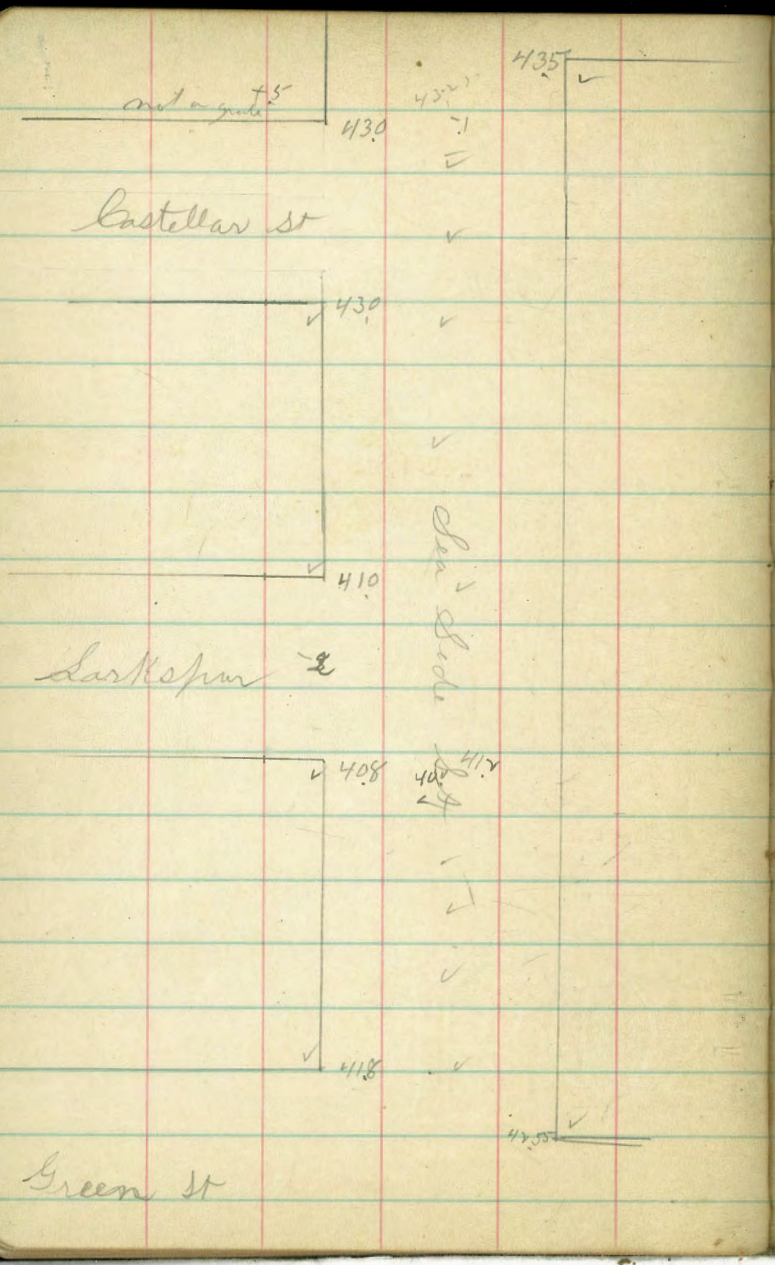
35.12
5.44
29.68

41.80 Br
4.05
45.85 HJ

41.00
4.85

40.90
4.95

40.80
5.05



418.0 BM
40.5
45.85

408
5.05

41.2
4.65

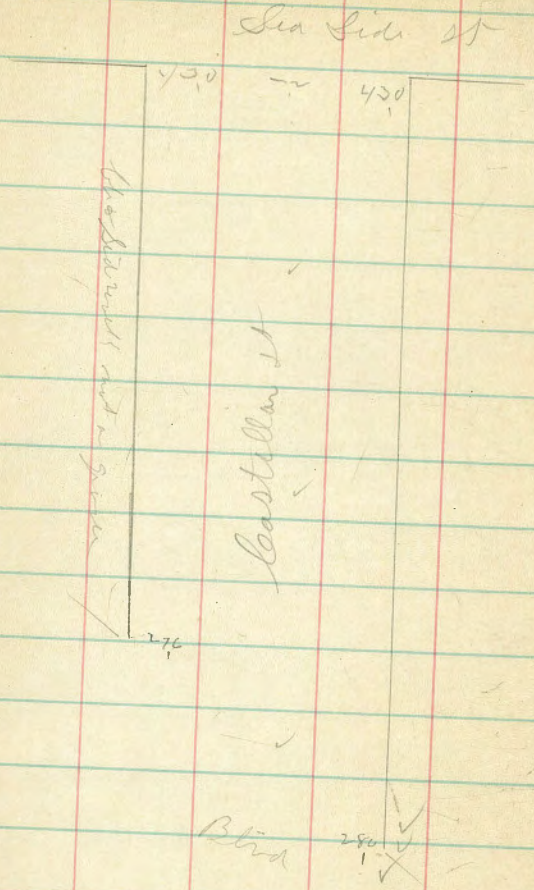
41.0
4.85

43.00
2.85

43.21
2.60

43.5
2.35

45.85
2
43.85



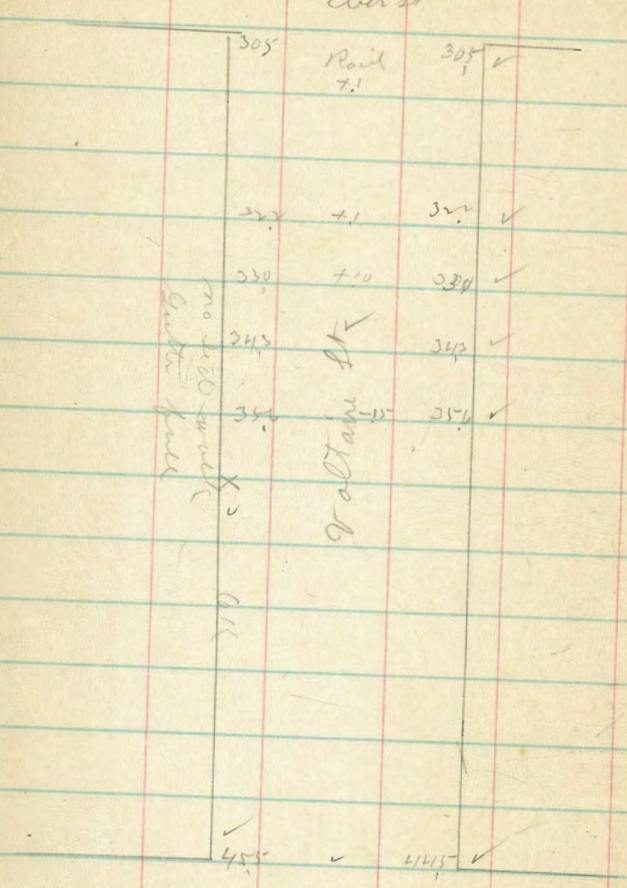
3150 Br
593
37.43

280
9.43

27.8
9.63

276
9.83

37.43
8.47
29.



Eber St

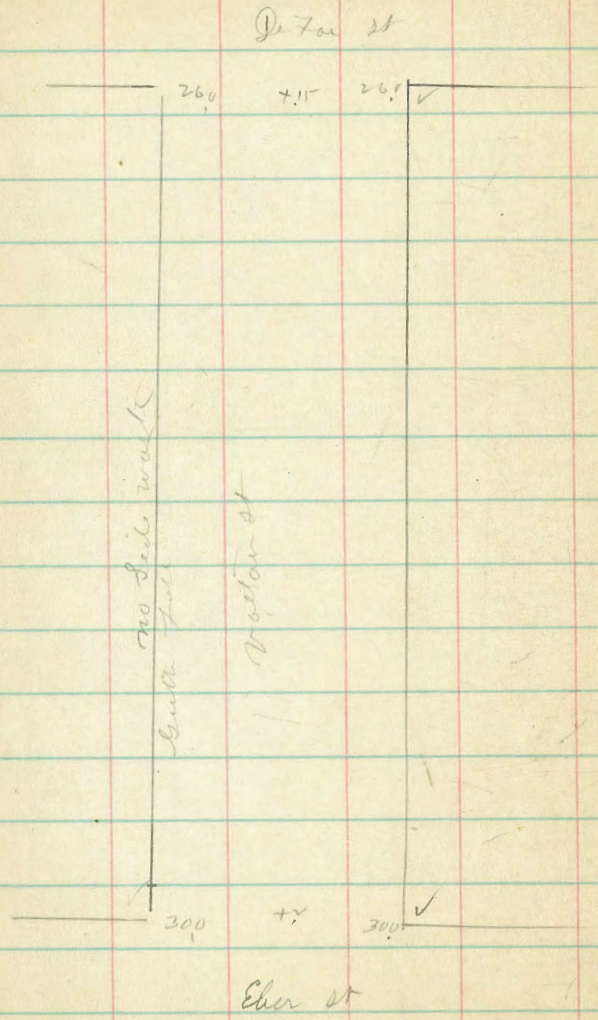
305	Rail +.1	305	✓
322	+.1	322	✓
330	+.10	330	✓
343	✓	343	✓
356	-.15	356	✓
✓			
455	✓	445	✓

no [illegible] [illegible] [illegible]

Voltaire St

Fronde St

31.04 Bm 6.17 37.21		30.50 6.71	32.20 5.01	33.00 4.21	34.30 2.91
	.356 1.61				
Bm 45.00 3.17 48.17		45.5 3.67	45.0 3.17	44.5 2.62	

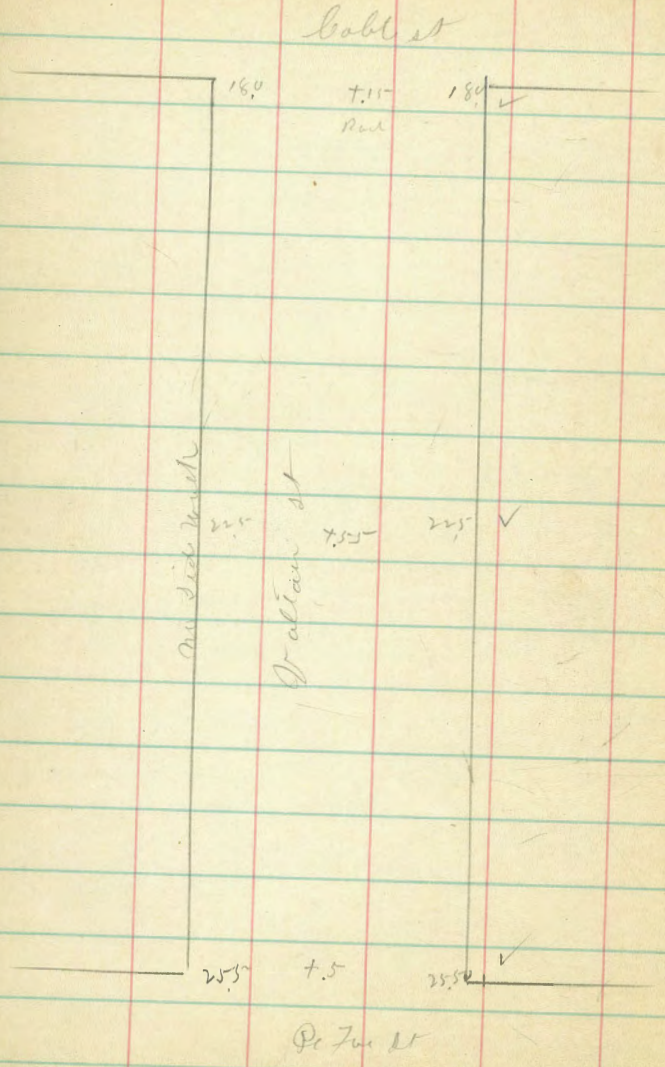


31.04 Bm
3.48
34.52

30.00
4.52

26.14 Bm
4.67
30.81

26.00
4.81



Cobb st

18.0 +.15 18.0 ✓

Rail

No side walk

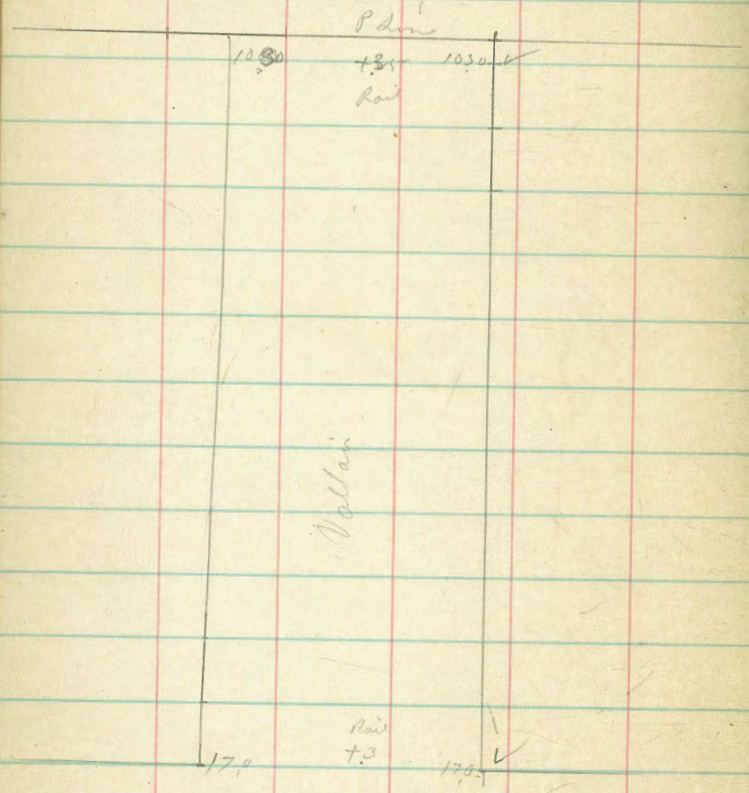
22.5 +.55 22.5 ✓

Gratian st

25.5 +.5 25.50 ✓

Pe Fue St

30.81 H.S	25.5 5.31	22.5 8.31
17.69 Bm 3.39 21.08	18.00 3.08	



Cable St

1769 Brn	17.00	10.30
3.39	4.08	10.78
21.08		

8 Hatch
29 Moore
18 Rogers

Xsec alley between 28th - 29th from B to E

BM 28th B.	857	205.53		196.96	
		SL. B.			
E			8,3	197.2	
Cr			8,4	197.1	
+4			8.4 3.5	197.1 202.0	
W			8.1 3.2	197.4 202.3	
		25' S			
E			6.0	199.5	
Cr.			6.1	199.4	
+5			6.1 3.7	199.4 201.8	
W			3.2	202.3	
		50. S			
W			4.0	201.5	
+2			4.0	201.5	
+3			5.0	200.5	
Cr			4,8	200.7	
E			4.8	200.7	

		205.53			
		75'			
E			4.7	200.8	
Cr			4.5	201.0	
W			4.6	200.9	
		100' S			
W			4.9	200.6	
Cr.			4.8	200.7	
E			5.1	200.4	
		125			
E			5.2	200.3	
Cr			5.1	200.4	
W			4.9	200.6	
		150			
W			5.3	200.2	
Cr.			5.5	200.0	
E			5.8	199.7	

205.53

175 's

E	5.7	199.8
Cr	5.7	199.8
W	5.7	199.8

200 's

W	5.9	199.6
Cr	5.7	199.8
E	5.8	199.7

225 's

E	6.0	199.5
Cr	6.1	199.4
W	6.3	199.2

250 's

W	6.9	198.6
Cr	6.7	198.8
E	6.1	199.4

205.53

275 's

E	7.0	198.5
Cr	7.1	198.4
W	7.5	198.0

300 's = Nk C St

W	7.8	197.7
Cr	7.5	198.0
E	7.3	198.2

20 's

E	7.4	198.1
Cr	7.7	197.8
W	8.3	196.2

40 's

W			8.5	197.0
Cr			8.1	197.4
E	0.66	198.56	7.63	197.90

1955

60's

E	0.8	197.8
Cr.	1.2	197.4
W	1.6	197.0

80's = St. & Sd.

W	1.9	196.7
Cr	1.7	196.9
E	1.1	197.5

25's of R

E	1.9	196.7
+1	1.9	196.7
+2	2.6	196.0
Cr.	2.3	196.3
W	2.4	196.2

50's

W	3.3	195.3
Cr.	3.5	195.1

1955

+8	3.5	195.1
E	3.0	195.6

75's

E	4.1	194.5
+1	4.2	194.4
+2	4.9	193.7
Cr.	5.0	193.6
W	4.8	193.8

100's

W	7.0	191.6
Cr	7.0	191.6
+7	7.1	191.5
+8	6.3	192.3
E	5.8	192.8

125's

E	8.1	190.5
+6	9.3	189.3

		19856		
cr			9.1	189.5
W			9.5	189.1
		150's		
W			12.1	186.5
+4			10.9	187.7
cr			10.9	187.7
E			10.2	188.4
		175's		
E			11.6	187.0
cr			12.1	186.5
+5			12.3	186.3
W			13.9	184.7
		200's		
W			15.3	183.3
+6			13.2	185.4
cr			13.1	185.5
+8			13.3 12.6	185.3 186.0

		19856		
E			12.2	186.4
T.P.	2.75	190.09	12.22	186.24
		225's		
E			4.2	185.9
+1			4.4	185.7
+2			5.4	184.7
cr			5.0	185.1
+3			5.0	185.1
W			7.2	182.9
		250's		
W			6.1	184.0
+6			4.8	185.3
cr			4.9	185.2
+8			4.9	185.2
+9			3.8	186.3
E			3.6	186.5

190.09

270' S

E	3.0	187.1
+1	3.1	187.0
+3	4.6	185.5
Cr	4.3	185.8
W	5.2	184.9

360' S = Sta. D St.

W	5.6	184.5
Cr.	4.7	185.4
+7	5.0	185.1
E	3.6	186.5

20' S

E	5.6	184.5
Cr	5.8	184.3
W	6.6	183.5

190.09

40' S

W	7.9
Cr	7.1
+9	7.0
E	6.2

60' S

E	6.7
+1	7.7
Cr	7.7
+2	7.9
+5	9.1
W	9.5

80' S = Sta. D St.

W	9.5
+5	8.9
+8	7.9
Cr	7.6

		19009			
E			7.4 / 6.7		
		25's			
E			6.0 / 6.5		
cr			7.0		
+3			7.5		
W			8.4		
		50's			
W			5.9		
+5			5.1		
cr			4.7		
+8			4.6		
E			4.1		
		75's			
E			2.7		
+2			3.3		
cr			3.4		
W			3.8		

		19009			
		100's			
W			2.7		
cr			2.1		
+8			2.1		
E			1.5		
		125's			
E			1.1		
+2			1.6		
cr			1.6		
W			2.1		
TP.	477	193.77	107	189.02	
		150's			
W.			5.9		
cr			5.3		
+5			5.3		
E			4.8		

19379

175' S

E 5.1

+3 5.8

cr 5.7

W 6.1

200' S

W 7.0

cr 6.7

+7 6.6

E 6.1

225' S

E 7.2

cr. 7.7

W 8.2

250' S

W 9.3

cr 8.7

E 7.8

19379

275' S

E 8.3

cr 9.2

W 10.2

300 = W.L. E

W 11.0

cr 10.4

E 9.7

Cross-section of Hamilton St. Adams to Collier. (20' walls) 10/1/10 Davis Williams Hancock

		H.I.			B.M. S.E. Idaho R.R. Spk in pole
	3.79	389.10			385.31
	6.16	388.51	6.75	382.35	
		No line Adams Ave			
E			7.2	381.3	
Ct			8.0		
1/4			8.1		
C			8.0	380.5	
1/4			8.2		
Ct			8.5		
W			8.2	380.3	
		4' N.			
W			5.6	382.9	
+10			7.2		
Ct			7.9		
1/4			7.8		
C			7.7	380.8	
1/4			7.7		

		4' N.		
E Ct.			7.1	381.4
+10			6.3	
+14			5.6	
+16			4.4	
E			4.7	383.8
		25' N.		
E			4.9	383.6
+5			4.8	
+10			5.8	
Ct.			6.5	
1/4			7.1	
C			6.8	381.7
1/4			7.5	
Ct			7.3	
+10			6.8	
W.			4.6	383.9

H1
388.51

39 in.

W	4.5	383.0
+7	5.1	
+13	6.5	
Cl.	7.1	

58 in.

W.	4.6	383.9
+9	5.4	
+15	6.6	
Cl.	7.0	
¼	6.8	
C	6.3	382.2
¼	6.6	
Cl.	6.1	
+15	5.9	
E	4.7	383.8

Hamilton 57.
75 in.

E	4.2	384.3
Cl	5.5	
¼	5.7	
C	5.8	382.7
¼	6.2	
Cl.	5.7	
W	5.5	383.0

90 in.

W	4.2	384.3
Cl.	4.7	

100 in.

W.	5.4	383.1
Cl.	4.9	
¼	5.3	
C	5.7	383.3
¼	4.8	
Cl	5.0	
E	3.8	384.7

Hamilton St

	385.5'	
	125' No	
E	4.4	384.4
Cl.	4.3	
¼	4.9	
C	4.8	383.7
¼	5.2	
Cl.	4.6	
W	4.5	384.0
	150' No	
W	5.3	383.7
Cl.	5.4	
¼	4.5	
C	4.1	384.4
¼	4.5	
Cl.	4.7	
E	4.6	383.9
	165 No.	
E	4.6	383.9
Cl.	4.5	

	170' No	
W	4.2	384.3
+10	5.6	
Cl.	4.7	
	175' No	
E	3.5	385.0
+6	4.1	
Cl.	4.3	
¼	4.4	
C	4.1	384.4
¼	4.4	
Cl.	4.8	
+10	5.7	
W	4.5	384.0
	200' No	
W	5.8	382.7
+17	4.1	
Cl.	4.1	
+6	5.0	
¼	4.5	

		38851		
		200 No		
C			4.2	384.3
½			4.6	
+6			4.7	
Cl.			4.0	
+10			4.2	
E			3.6	384.9
		215 No		
E			4.6	384.1
+10			2.1	
Cl.			2.5	
+2			3.0	
+5			4.8	
½			4.5	
C			4.2	384.3
½			4.5	
+6			5.0	
+7			3.5	
Cl.			3.3	
+7			3.6	
VV			5.1	383.4

Hamilton St.

		235 No		
W.			5.3	383.2
+10			4.5	
Cl.			4.9	
½			4.3	
C			4.2	384.3
½			4.5	
+5			4.6	
+7			3.0	
Cl.			2.6	
+10			2.6	
E			4.3	384.2
T.P	7.18	391.49	4.20	384.31
		250 No		
E			7.3	384.2
Cl.			7.5	
½			7.2	
C			7.1	384.4
½			7.2	

	391.49		
	250' N.		
Ch.	7.6		
+5	8.3		
W	6.2	385.3	
	275 N.		
W	8.3	383.2	
Ch.	7.2		
¼	7.1		
C	6.9	384.6	
¼	7.0		
Ch	6.5		
+10	5.9		
E	6.3	385.2	
	300 N.		
E	6.1	385.4	
+10	5.5		
Ch	5.5		
+2	5.6		

+15	7.0		
¼	7.0		
C	6.8	384.7	
¼	6.9		
Ch.	7.2		
+10	5.8		
W.	5.6	385.9	
	315 N.		
W	4.8	386.7	
+10	5.5		
Ch.	7.2		
¼	6.9		
C	6.7	384.8	
¼	7.0		
+5	7.3		
+7	5.8		
Ch	5.7		
E	6.6	384.9	

Hamilton St.

	391.49		
	325 in.		
E	5.0	386.5	
Ch	6.7		
+5	6.7		
7	6.9		
C	6.7	384.8	
2	6.9		
Ch	7.4		
+10	6.5		
W	6.1	385.4	
	335 N.		
W	7.5	384.0	
Ch	7.3		
	340 in.		
E	4.7	386.8	
Ch	6.6		
	350 N.		
E	6.3	385.2	
Ch	6.3		

4	6.5	385.0	
C	6.4	385.1	
4	6.7		
+7	6.9		
Ch	5.8		
+10	6.3		
W	7.4	384.1	
	375 in.		
W	6.3	385.2	
Ch	6.5		
+5	7.0		
4	6.5		
C	6.2	385.3	
2	6.2		
+5	6.5		
+6	4.3		
Ch	4.3		
E	5.6	385.9	

	391.49		
	390 N.		
W	5.2	386.3	
+1.0	6.5		
Ch.	6.9		
	400 N.		
E	6.5	385.0	
Ch.	6.4		
¼	6.0		
C	6.0	385.5	
¼	6.2		
Ch.	6.9		
W	6.0	385.5	
	415 N.		
W	7.1	384.4	
Ch.	6.5		
¼	6.0		
C	5.8	385.7	
¼	5.9		

Hamilton St

Ch.	6.4		
W E(?)	6.4	385.1	
	425 N.		
W E(?)	5.3	386.2	
+1.0	4.5		
Ch.	5.0		
+3	5.4		
+5	6.4		
¼	6.0		
C	5.7	385.8	
¼	5.9		
Ch.	6.7		
W	6.2	385.2	
	435 N.		
W	5.6	385.9	
+1.0	5.3		
Ch.	6.5		

	391.49		
	450 in.		
W	5.7	385.8	
Cl.	6.4		
½	5.7		
C	5.5	386.0	
½	5.7		
+5	6.0		
Cl	5.6		
E	6.0	385.5	
	475 in.		
E	5.8	385.7	
Cl.	6.0		
½	5.4		
C	5.3	386.2	
½	5.4		
Cl	6.5		
W	6.1	384.8	

Hamilton St.

	550 in.		
W	6.2	385.3	
+10	4.8		
Cl	4.7		
+4	5.5		
½	5.4		
C	5.2	386.3	
½	5.4		
+4	5.6		
+6	4.1		
Cl.	4.3		
+13	5.6		
E	4.7	386.8	
	515 in.		
E	5.3	386.2	
+10	5.6		
Cl.	5.2		
+4	5.0		
+6	5.7		
½	5.4		

	391.49		
C		5.7	386.3
¼		5.5	
ch.		5.8	
+5		5.5	
W		6.3	385.2
	525 N.		
W		5.1	386.4
+10		4.5	
ch		5.3	
+5		5.8	
¼		5.3	
C		5.0	386.5
¼		5.3	
ch.		5.9	
E		4.3	387.2

	Hamilton St.		
	540 N.		
E		3.7	387.8
		5.5	
	553 N.		
E		5.0	386.5
ch		5.5	
¼		5.2	
C		5.6	386.5
¼		5.3	
ch.		5.7	
W.		5.9	385.6
	565 N.		
W		6.7	385.3
ch.		5.8	
	575 N.		
W		5.0	386.5
ch		5.7	
¼		5.3	

	391.49		
C	5.1	386.4	
ta	5.2		
ct	5.5		
E	5.0	386.5	
	600 N. 5th. Collier Ave		
E	3.6	387.9	
+10	4.0		
ct	5.5		
ta	5.2		
C	5.0	386.5	
ta	5.6		
+7	6.0		
ct	5.6		
+12	4.4		
W.	4.1	387.4	

Cross-section of Idaho St. Adams Ave to Copley Ave (20' walks) 10/2 Davis, 10 Williams, Hancock

141.

	6.80	392.11			B.M. Spl. pole S.E. Adams 385.31
		No. line Adams			
E			5.9	386.2	
+14			6.2		
+15			6.9		
Cl			6.9		
1/4			6.5		
C			6.1	386.1	
1/4			6.4		
Cl			6.9		
+4			7.0		
+6			6.1		
W			5.9	386.2	
		25 No.			
W			6.5	385.6	
+15			5.6		
Cl			6.0		
+7			6.4		
1/4			6.0		
C			5.6	386.5	
1/4			6.2		
Cl			6.6		
E			6.2	385.9	
		50' No.			
E			6.0	386.1	
Cl			6.0		
1/4			5.9		
C			5.4	386.7	
1/4			5.9		
+4			6.3		
+6			5.6		
Cl			5.5		
W			5.5	386.6	

	392.11		
	75 N. Adams		
W		4.3	387.8
+15		5.5	
Ch.		5.1	
+5		5.9	
¼		5.6	
C		5.2	386.9
¼		5.7	
Ch.		6.1	
E		5.9	386.2
	100 N.		
E		5.9	386.2
Ch.		6.0	
¼		5.5	
C		5.0	387.1
¼		5.6	
+4		3.8	
+7		4.0	

	Idaho St.		
Ch		4.4	
K/		5.4	386.7
	125 N.		
K/		5.3	386.8
Ch		5.4	
+2		5.6	
¼		5.1	
C		4.9	387.2
¼		5.3	
+5		5.8	
Ch.		5.4	
E		5.5	386.6
	150 N.		
E		5.2	386.9
Ch.		5.1	
¼		5.2	
C		4.1	387.4

	39211	
W½	5.0	
+5	5.5	
cl	5.3	
W	4.8	387.3
	165 N.	
W	4.1	388.0
cl	5.2	
	175 N.	
W	4.7	387.4
cl	5.2	
+5	5.7	
¼	5.0	
C	4.6	387.5
¼	5.0	
cl	5.5	
E	5.2	386.9

Idaho St

	200 N.	
E	4.9	387.2
cl	5.2	
½	5.0	
C	4.7	387.4
¼	5.0	
+5	5.2	
cl	5.4	
W	4.0	388.1
	225 N.	
W	4.6	387.5
+10	4.3	
cl	5.0	
+5	5.4	
¼	4.7	
C	4.4	387.7
¼	4.8	
+5	5.2	

	392.11		
cl		4.9	
E		4.7	387.4
	235 N.		
W		3.7	388.4
+10		3.4	
cl.		4.3	
	250 N.		
E		4.3	387.8
+4		4.7	
cl		4.7	
+5		4.7	
¼		4.4	
c		4.1	388.0
¼		4.4	
+5		5.0	
cl		4.7	
+5			
W		4.4	387.7

	Idaho St. 275 N.		
W		4.6	387.5
cl.		3.9	
+4		3.9	
+6		4.7	
¼		4.4	
c		4.0	388.1
¼		4.2	
+4		4.5	
+7		3.0	
cl		3.0	
+15		4.1	
E		3.8	388.3
	300 N.		
E		4.0	388.1
cl		4.0	
+5		4.3	
¼		3.9	
c		3.9	388.4

392.11

W½	4.0	
+4	4.3	
+7	3.5	
cl.	3.2	
+10	2.7	
W	3.6	388.5

325 N.

W	3.9	388.2
cl.	4.0	
+5	4.4	
½	3.7	
C	3.4	388.7
½	3.9	
cl	3.9	
E	3.2	388.9

Idaho St.

350 N.

E	3.6	388.5
+10	3.6	
cl.	2.9	
+3	2.5	
+6	3.9	
½	3.5	
C	3.4	388.7
½	3.6	
+5	4.1	
+6	3.7	
cl	3.6	
+10	3.2	
W	3.9	388.2

375 N.

W	3.5	388.6
+10	2.4	
cl	2.7	

		392.11		
U+4			3.0	
+6			3.9	
¼			3.4	
C			3.1	389.0
¼			3.4	
+4			3.8	
+6			3.4	
U			3.5	
E			3.6	388.5
T.P.	6.57	395.27	3.31	388.80
		400 N.		
E			6.7	388.7
+10			6.2	
U			5.7	
+3			5.7	
+7			7.0	
¾			6.6	

		Idaho 57		
C			6.3	389.1
¼			6.6	
+5			7.3	
U			6.9	
N			7.0	388.4
		425 N.		
N			6.0	389.4
U			6.6	
+5			6.9	
¼			6.4	
C			6.3	389.1
¼			6.5	
+4			6.7	
+7			6.9	
U.			6.1	
E			6.6	388.5

395.37

450 ft.

E	5.7	390.0
+10	6.2	
cl.	6.3	
½	6.4	
C	6.0	389.4
½	6.5	
+5	6.9	
+8	5.0	
cl.	4.9	
+7	4.8	
W	6.6	388.8

475 ft.

W	6.6	388.8
cl.	6.5	
+5	6.8	
½	6.0	
C	5.8	389.6

Idaho St.

½	6.2	
cl.	6.4	
E	6.3	389.1

490 ft.

W	5.5	389.9
+5	5.6	
cl.	6.6	

500 ft.

E	6.1	389.3
+15	4.8	
cl.	5.1	
+4	5.5	
+2	6.3	
½	6.0	
C	5.6	389.8
½	6.0	
cl.	6.6	
+16	6.2	
W	6.2	389.2

395.37

6-35 N.

W	5.1	390.3
+10	4.4	
Cl.	5.5	
+5	6.4	
¼	5.9	
C	5.4	390.0
¼	5.6	
+4	6.1	
Cl	6.0	
E	5.6	389.8

5.50 N.

E	4.0	391.4
+10	4.4	
Cl	5.4	
+5	5.6	
¼	5.3	
C	5.2	390.2

Idaho St.

¼	5.5	
+5	6.0	
+6	5.5	
Cl.	5.5	
+10	5.7	
W	6.2	389.2

5.65 N.

E m(2)	4.6	390.8
+1.5	5.1	
Cl	4.7	
W	6.0	389.4
+10	5.7	
Cl	5.6	
+5	5.8	
¼	5.1	
C	4.9	390.5
¼	5.0	
+5	5.4	
+9	4.1	
Cl	4.4	
+10	4.1	
E	3.9	391.5

		395.37		
		585.10		
E			3.2	390.2
+10			4.5	
Cl			4.4	
		600 N. Adams St. Collect		
E			4.1	391.3
Cl			4.9	
1/4			4.8	
C			4.3	391.1
1/4			4.9	
+5			5.5	
Cl.			5.4	
+10			4.6	
W			4.7	390.7
		So Cb = 14'		
W			5.0	390.4
+15			5.4	
Cl			5.1	

		Idaho St.		
1/4			4.8	
C			4.3	391.1
1/4			4.5	
Cl			4.7	
E			4.5	390.9
		So 1/4		
E			4.1	391.3
Cl			4.2	
1/4			4.3	
C			4.5	390.9
1/4			4.7	
Cl			4.7	
W			5.0	390.4
		Ctr		
W			4.3	391.1
Cl			4.0	
1/4			3.9.	

395.37

C	39	391.5
¼	36	
cl	34	
E	33	399.1
	N. ¼	
E	3.5	391.9
cl	39	
¼	39	
C	4.3	391.1
¼	4.3	
cl.	44	
W.	47	390.7
	¼ + 4′	
W	3.9	391.5
a	3.8	
+4	3.8	
+5	41	

Idaho St.

¼	3.9	
C	3.6	391.8
¼	38	
+5	3.9	
+6	3.6	
cl	32	
+10	2.6	
E	2.6	397.8
	No cl	
E	3.1	392.3
cl	26	
+3	27	
+5	38	
¼	36	
C	3.3	392.1
¼	37	
+4	3.9	
4	3.6	

		395.37		
Cl			3.5	
W			3.6	391.8
	N. line Collier Ave			
W			3.5	391.9
Cl			3.2	
Hl			3.7	
1/4			3.4	
C			2.9	392.5
1/4			3.2	
+5			3.3	
+7			1.8	
Cl			1.7	
+10			2.0	
E			2.9	392.5
		25' N.		
E			2.7	392.7
Cl			3.0	

+5			3.4	
1/4			3.0	
C			2.6	392.8
1/4			3.1	
+4			3.4	
+7			3.0	
Cl			3.0	
W			3.2	392.2
		50 N.		
W			2.9	392.5
Cl			2.7	
+5			3.3	
1/4			2.8	
C			2.5	392.9
1/4			2.8	
+8			3.0	
Cl			2.1	
+10 E			1.4 1.4	394.0

		39537		
		65'N.		
W			2.1	393.3
+10			1.8	
Cl.			2.7	
		75'N.		
E			2.5	392.9
Cl			2.4	
+5			2.8	
¼			2.6	
C			2.1	393.3
½			2.6	
+5			3.0	
Cl.			2.7	
+10			2.1	
W			2.4	393.0
T.P.	3.90	397.76	1.51	393.86
		100'N.		
W			4.6	393.2
+10			3.8	

Cl			4.0	
+5			5.0	
¼			4.7	
C			4.3	393.5
¼			5.0	
+5			5.2	
Cl			4.8	
E			4.7	393.1
		115'N.		
W			4.0	393.8
+10			3.1	
Cl.			3.5	
		150'N.		
E			3.4	394.4
+10			3.5	
Cl			4.0	
+6			3.0	
¾			4.8	

397.71

125 in.

C	42	393.6
½	44	
+5	5.0	
+7	42	
d	40	
+10	35	
W	45	393.3

150 in.

W	47	393.1
d	45	
½	44	
C	40	393.8
½	47	
d	44	
E	42	393.6

175 in.

E	42	393.6
d	44	
½	44	
C	39	393.9
½	41	
+5	44	
+7	35	
d	36	
W	45	393.3

200 in.

W	45	393.3
d	43	
½	40	
C	36	394.2
½	44	
d	43	
E	39	393.9

39770

225 No.

E	4.2	393.6
cl	4.1	
½	4.3	
c	3.8	394.0
½	4.0	
cl	4.1	
W	4.3	393.5

250 No.

W	4.1	393.7
cl.	4.2	
½	4.0	
c	3.7	394.1
½	4.4	
cl	4.2	
E	4.2	393.6

275 No.

E	4.3	393.5
cl	4.2	
+5	4.6	
½	4.5	
c	3.9	393.9
½	4.1	
+5	4.6	
cl	4.3	
W	4.1	393.7

300 No. Collins Solina Copley Ave

W	4.3	393.5
+15	4.5	
+16	5.3	
cl.	5.1	
½	4.3	
c	4.0	393.8
½	4.5	
cl.	5.0	
+5	4.5	
E	4.3	393.5

12 Hatch
8 Moore
10 Rogers

X Sec 31st Hawthorn Jointh to Pueblo line (check elevation of bench on grape with curb grade at that point)

BM NE Cor 3.50	280.11		276.61	Grape 30th	
NE Cor 31st Grape 6.60	278.22	8.49	271.62		
		5th Hawthorn			
E		0.1	278.12		
cb		0.4	277.8		
1/4		1.2	277.0		
c		1.2	277.0		
1/4		1.7	276.5		
cb		1.1	277.1		
W		1.2	277.0		
	25's				
W		1.3	276.9		
		1.2	277.0		
		1.5	276.7		
		1.5	276.7		
		1.3	276.9		
		0.6	277.6		
E		0.5	277.7		

		278.22		
		50's		
E			1.1	277.12
			1.0	277.2
			1.5	276.7
			1.6	276.62
			1.5	276.7
			1.7	276.5
W			1.9	276.32
		75's		
W			2.2	276.02
			2.2	276.0
			2.0	276.2
			1.8	276.42
			1.7	276.5
			1.5	276.7
E			1.5	276.72

	27822		
	100's		
E		1.9	276.32
ct		2,0	276.2
1/4		2,1	276.1
c		2,1	276.12
1/4		2,0	276.2
ct		2.5	275.7
W		2.7	275.52
	125's		
E		3,1	275.12
ct		3,1	275.1
1/4		2,6	275.6
c		2.7	275.52
1/4		2.5	275.7
ct		2,5	275.7
W		2.2	276.02

	27822		
	150's		
E		2.7	275.52
		2.9	275.3
		3,0	275.2
		3.2	275.02
		3,2	275.0
		3,5	274.7
W		3.4	274.82
	175's		
W		4,0	274.22
		4,0	274.2
		3.5	274.7
		3.6	274.62
		3,5	274.7
		3,5	274.7
E		3.4	274.82

278.22

200 's

E	3.8	274.42
cl.	4.0	274.2
1/4	4.1	274.1
c	4.1	274.12
1/4	4.1	274.1
cl	4.4	273.8
W	4.6	273.62

225 's

W	5.6	273.22
cl	5.2	273.0
1/4	4.8	273.4
c	4.9	273.32
1/4	4.8	273.4
cl	4.6	273.6
E	4.6	273.62

278.22

250 's

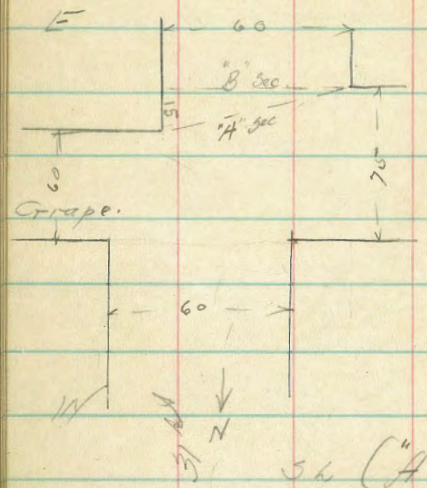
E	5.2	273.02
	5.1	273.1
	5.3	272.9
	5.4	272.82
	5.2	273.0
	5.5	272.7
W	5.6	272.62

275 's

W	6.1	272.12
	6.2	272.0
	5.9	272.3
	6.0	272.22
	5.8	272.4
	5.9	272.3
E	5.8	272.42

278.22

300's = NL Grape



6.6	271.62
6.4	271.8
6.5	271.7
6.5	271.72
6.4	271.8
6.6	271.2
6.7	271.52

SL ("A" sec)

E	8.5	269.72
	8.3	
	8.4	
	8.3	269.92
	8.5	
	8.5	
W	87	269.52

278.22

"B" Sec

W	8.7	269.52
	8.5	
	8.6	
	8.5	269.72
	8.6	
	8.6	
E	8.8	269.42

25' S of B

E			9.7	268.52
ch			9.5	
1/a			9.4	
c			9.2	269.02
1/a			9.2	
T.P.	0.82	269.82	9.22	269.00
ch			9.6	
W			9.6	269.22

	269.82		
	50's		
W		1.1	268.7
		1.0	
		1.7	
		1.6	
		1.7	
		2.1	
E		2.2	
	75's		
E		2.8	
		2.7	
		2.5	
		2.1	
		2.2	
		1.8	
W		1.7	

	269.82	
	100's	
W		2.3
		2.2
		2.9
		2.6
		3.0
		3.4
E		3.8
	125's	
E		4.4
		3.8
		3.5
		3.2
		3.3
		2.8
W		2.7

269.82

150'S

W 2.9

3.2

3.6

3.6

3.9

4.5

E 4.8

175'S

E 5.1

4.7

4.2

3.9

4.0

3.5

W 3.1

269.82

300'S

W 3.5

3.9

4.3

4.2

4.4

4.7

E 5.1

225'S

E 5.1

4.8

4.6

4.5

4.6

4.2

W 3.8

36982

250 's

W

4,9

4,5

4,9

4,7

4,8

5,0

E

5,3

275 's

E

5,7

5,5

5,3

5,3

5,5

5,2

W

4,9

300 's

W

5,5

5,8

6,2

5,9

6,0

6,1

E

6,2

325 's

E

6,9

6,8

6,5

6,6

6,8

6,5

W

6,3

26982

300 's = Nh. Fir St.

W	7.3
	7.2
	7.4
	7.4
	7.4
	7.6
E	7.7
N cb.	
E	8.1
	7.9
	7.8
	7.8
	7.8
	7.7
W	7.7

26982

N 1/4

W	8.2
	8.1
	8.2
	8.3
	8.2
	8.5
E	8.6
Cr.	
E	9.0
	9.0
	8.8
	8.7
	8.6
	8.4
W	8.5

		26982			
		S 1/4			
W			8.8		
			9.0		
			9.1		
			9.2		
			9.2		
			9.5		
E			9.5		
		S cb.			
E			9.9		
			9.9		
			9.6		
			9.6		
			9.7		
			9.4		
W			9.3		

		26982			
		SL.			
W			9.7		
			9.9		
			9.9		
			10.1		
			10.1		
			10.4		
E			10.5		
TP	194	26081	10.95	258.87	
		25.5			
E			2.5		
			2.6		
			2.4		
			2.3		
			2.3		
			2.1		
W			2.0		

		260.81			
		50' S			
W			3,5		
			3,7		
			3,9		
			3,8		
			3,9		
			4,0		
E			4,2		
		75' S			
E			6,3		
			6,1		
			6,6		
			6,6		
			5,9		
			5,6		
W			5,2		

		260.81			
		100' S			
W			7.7		
			7.7		
			8,2		
			8,6		
			8.7		
			9,0		
E			9.5		
		125' S			
E			12.4		
			12,0		
			11,5		
			11.6		
			11.5		
			11.1		
W			10.7		
T.P.	0,86	248.54	13.13	247.68	

248.54

150 S

W	1.1
	1.4
	1.8
	1.8
	2.1
	2.8
E	3.3

175 S

E	6.2
	5.8
	5.0
	4.7
	4.4
	4.3
W	4.0

248.54

200 S

W	6.6
	7.0
	7.2
	7.7
	8.1
	8.6
E	8.9

225 S

E	11.4
	10.9
	10.2
	9.7
	9.1
	9.1
W	8.9

		54864		
		250 ' S		
W			10.9	
			11.1	
			11,3	
			11.9	
			12,3	
			13,1	
E			13.4	
T.P.	155	23709	13.00	235.54
(80 ' st)		270 ' S = Nh. Elm on West		
E			37	
			3.1	
			2.2	
			1,8	
			1,5	
			1,2	
W			09	

		23709	
	N ch		
W			1.9
ch			2 2
1/4			2,8
cr			31
	N 1/4		
cr			4,2
1/4			3.7
ch			3,3
W			3.0
	cr.		
W			3.9
ch			4.1
1/4			4 7
cr			5 1
	5 1/4		
cr			6,0

		23709			
1/4			5,6		
cb			5,0		
W			4,8		
		S cb.			
W			5.9		
cb			6.0		
1/4			6,5		
C			6.9		
(60'st)	300's of Fir = Nh Elmon East				
E			5.9		
cb			5.4		
1/4			4,4		
Cr			4.4		
		N cb.			
cr			5,0		
1/4			5,3		
cb			6,0		
E			6,5		

		23709			
		N 1/4			
E			7,4		
cb			6,8		
1/4			6,2		
cr			5.7		
		cr			
cr			6,6		
1/4			6.9		
cb			7.5		
E			8.0		
		S 1/4			
E			8.7		
cb			8.1		
1/4			7,6		
cr			7.1		

		237.09			
East Sch = Sh West					
E			9.3		
			8.9		
			8.2		
			7.8		
			7.7		
			7.1		
W			7.3		
Sh. of Elm on East.					
W			8.0		
			7.9		
			8.1		
			8.4		
			8.7		
			9.4		
E			10.1		
T.P.	0.30	235.84		235.54	

		235.84			
25' S of Elm –					
E			10.6		
			9.9		
			9.3		
			9.1		
			9.2		
			8.9		
W			8.9		
50' S					
W			11.9		
			11.2		
			11.2		
			11.2		
			11.4		
			11.8		
E			12.3		
T.P.	0.39	223.03	13.20	222.64	

		223.03		
		75' S		
E			1.4	
			1.0	
			0.6	
			0.5	
			1.1	
			1.9	
W			3.0	
	100' S			
W			7.2	
			5.5	
			4.3	
			3.4	
			3.3	
			3.5	
E			3.9	

		223.03		
		125' S		
E			6.1	
			6.1	
			6.6	
			7.4	
			9.1	
			10.7	
W			11.7	
	150' S			
Or			12.1	
1/4			11.2	
Ch			9.7	
E			8.9	
TP	017	210.28	12.92	210.11
W 1/2			2.8	
A			1.9	
W			2.9	

		210.28			
		175' S			
W			5.7		
			4.8		
			4.2		
			3.2		
			2.7		
			1.3		
E			0.8		
		200' S			
E			5.6		
			5.4		
			6.1		
			6.0		
			7.1		
			8.7		
W			11.2		

		210.28			
		225 S			
W 1/4			12.9		
Cr			11.0		
1/c			10.7		
Ch			10.1		
E			9.8		
T.P	0.22	197.26	13.24	197.04	
Web			3.1		
W			5.3		
		250' S			
W			8.8		
			6.5		
			3.5		
			1.9		
			1.5		
			1.2		
E			1.3		

		197.26			
		375's			
E			3.9		
			4.1		
			4.9		
			5.2		
			5.6		
			8.9		
W			12.3		
	300's				
W 1/a			10.9		
cr.			9.1		
1/a			8.1		
cb			7.2		
E			6.9		
	325's				
E			9.7		
cb.			11.4		

		197.26			
T.P	5.46	190.64	120.8	185.18	
		300's			
W.h.			9.1		
cb			7.6		
		325's			
W			10.2		
cb			10.6		
1/a			10.8		
c			10.3		
1/a			5.5		
	338's				
W			10.9		
			12.1		
			12.9		
			13.1		
			13.3		
			12.7		
E			8.6		

19064

350's

E	14.2
	12.9
	12.1
	11.9
	11.1
	10.7
W	10.9

375's

W	6.2
	9.0
	10.8
	11.5
	6.6
	13.0
E	13.4

19064

400's

E	13.7
	13.1
	12.2
	11.0
	9.8
	7.6
W	4.4

425's

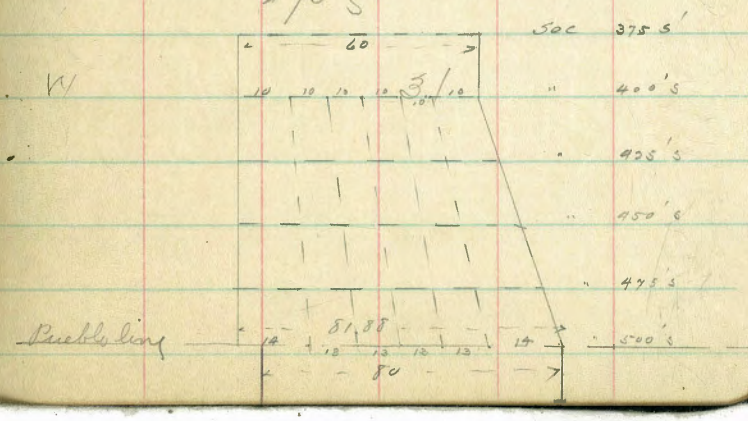
W ch.	4.1
1/2	6.9
c	9.8
1/2	11.7
ch	12.8
E	14.0

450's

E	10.9

		190.64		
cb.			7.3	
1/4			4.3	
cr			2.0	
		475 's		
E			5.7	
cb			3.1	
T.P.	8.35	198.54	0.45	190.19
1/4			7.0	
cr.			4.4	
1/4			1.5	
		425 's		
W			7.4	
		450 's		
W cb.			4.1	
1/4			7.6	
		500 's	Pueblo line	
W 1/4			0.8	

		198.54		
cr			4.0	
1/4			9.1	
cb.			14.3	
T.P.	0.43	190.62	8.35	190.19
E			11.6	
T.P.	12.66	202.85	0.43	190.19
		450 's		
W			3.5	
T.P.	5.40	206.88	1.37	201.48
		500 's		
W			1.8	
cb			6.1	
		475 's		



Idaho SE SpK [illegible] 81

Hamilton SE " 381.43