ARNOLD
+
CHOATE'S

LEVEL BOOK

400

F. B. 293

293

H. S. CROCKER COMPANY

DRAWING MATERIALS AND SURVEYING INSTRUMENTS

SAN FRANCISCO

293

TABLES FOR EXCAVATIONS AND EMBANKMENTS

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING

Roadway 18 Feet Wide. Side Slopes 1 to 1.
For Single Track Excavation.

"Copyright, 1895, by Kuchel & Esser Co."

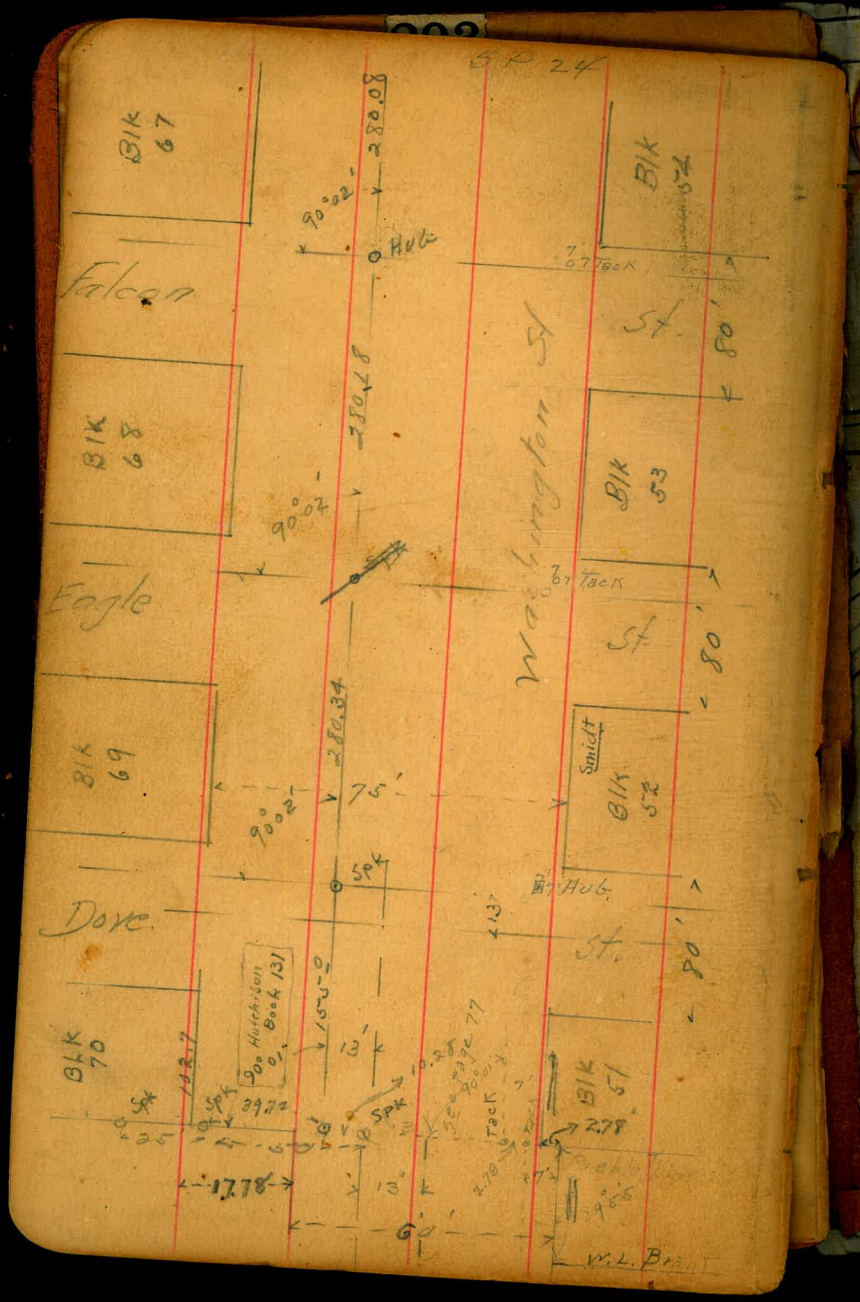
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19 5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MICROFILMED JUL 1964

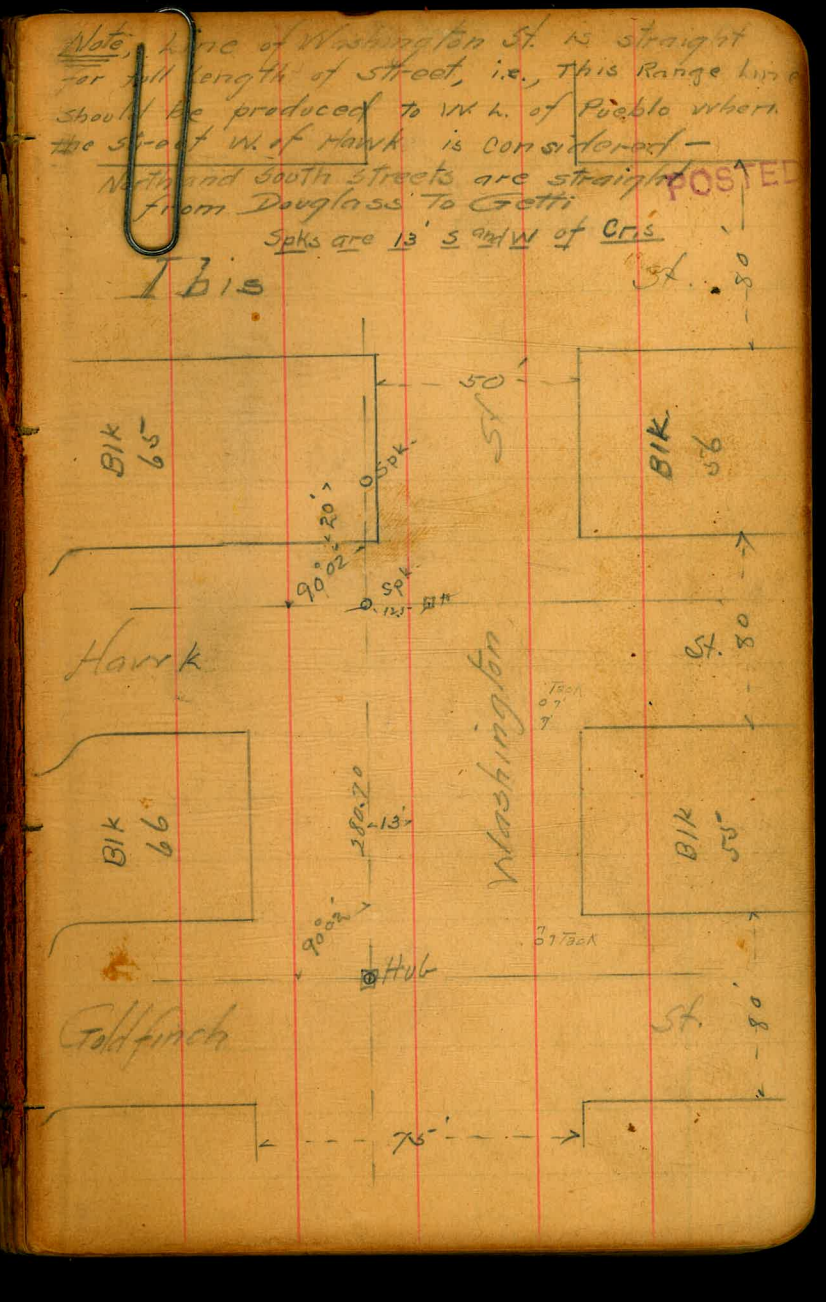
Book 293
Return to City Engineers Office
City Hall, San Diego, Cal.

265.94	Spk. NE	Eagle.	Fence Post.		
269.26	"	"	Goldfinch	"	"



Note, Line of Washington St. is straight for full length of Street, i.e., This Range line should be produced to W.L. of Pueblo where the Street W. of Hawk is considered—
North and South Streets are straight from Douglass To Getti
Spks are 13' S and W of Cr's

POSTED



5/22/07 Halt Domain Washington St. Every Pueblo line to Hawk

Bm Eagle	5.44	271.38		265.94
Pueblo line				
N. 101 E of Dove.			9.1	262.3
cb.			7.6	263.9
1/4			6.6	264.9
cr.			5.8	265.6
1/4			5.2	266.2
cb.			5.0	266.4
S 102.7 E of Dove.			5.2	266.2
75' E of Dove				
S			3.6	267.8
cb.			3.6	267.8
1/4			4.5	266.9
cr			4.7	266.7
1/4			4.9	266.5
cb.			5.1	266.3
N			6.0	265.4

Reduced by Bartlett

POSTED

1

		271.38		
50' E of Dove.				
N.			4.8	266.6
cb.			3.8	267.6
1/4			3.6	267.8
cr.			4.3	267.1
1/4			4.2	267.2
cb.			4.5	266.9
S			4.8	266.6
25' E of Dove.				
S			4.6	266.8
cb.			4.3	267.1
1/4			4.3	267.1
cr.			4.2	267.2
1/4			3.9	267.5
cb.			4.0	267.4
N			4.1	267.3

271.38

E ½ Dong Rd.

N.	4.0	267.4
cb.	3.8	267.6
¼	3.9	267.5
cr	2.7	268.7
¼	2.1	269.3
cb	2,5	268.9
S	3.9	267.5

E cb Dong.

S	4.2	267.2
cb.	2.9	268.5
¼	2.3	269.1
cr	3.4	268.0
¼	3,8	267.6
cb.	3.9	267.5
N	3.8	267.6

271.38

E ½ Dong.

N	3.7	267.7
cb.	3.6	267.8
¼	3.5	267.9
cr	3.3	268.1
¼	3,5	267.9
cb	4.0	267.4
S	4.1	267.3

Cr Dong.

S	3.7	267.7
cb.	3.9	267.5
¼	3,5	267.9
cr	2,8	268.6
¼	3.0	268.4
cb.	3.0	268.4
N	3.7	267.7

27138

W 1/4 Dome

N.	3.6	267.8
eb	3,3	267.1
1/4	2,7	268.7
or	3,3	268.1
1/4	3.6	267.8
eb	3.6	267.8
S	3,1	268.3

W eb. Dome

S	3.4	268.0
eb.	3,6	267.8
1/4.	3,9	267.5
or	3,6	267.8
1/4	3,4	268.0
eb.	3.4	268.0
N.	3,6	267.8

27138

W 1/4 Dome

N.	3.8	267.6
eb.	4.0	267.4
1/4	3.7	267.7
or	3.6	267.8
1/4	4.2	267.2
eb.	4.0	267.4
S	4.2	267.2

25' W of Dome

S	4,9	266.5
eb.	5.0	266.4
1/4	4.8	266.6
or	4.7	266.7
1/4	4,3	267.1
eb	4,3	267.1
N	3,8	267.6

27138

50' W of Dam.

N	4,0	267.4
cb.	4,3	267.1
1/4	4,0	267.4
cr	3,8	267.6
1/4	3,8	267.6
cb.	4,5	266.9
S	5.4	266.0

75' W of Dam

S	6,9	264.5
cb.	6,5	264.9
1/4	5,6	265.8
cr	5,2	266.2
1/4	5,2	266.2
cb.	5,0	266.4
N	4.6	266.8

27135

100' W of Dam.

N	5.0	266.4
cb	5.4	266.0
1/4	5.4	266.0
cr	5.9	265.5
1/4	6.3	265.1
cb.	7,4	264.0
S	7.3	264.1

125' W of Dam

S	7.4	264.0
cb	7,7	263.7
1/4	6.7	264.7
cr	5.7	265.7
1/4	5.8	265.6
cb	5.8	265.6
N	5.3	266.1

27138

150 W of Dam

r	5,9	266.0
cb	5,9	265.5
1/4	6,2	265.2
cr	6,8	264.6
1/4	7,6	263.8
cb	7,9	263.5
s	7,9	263.5

175 W of Dam

s	7.8	263.6
cb	7,6	263.8
1/4	8,0	263.4
cr	7,5	263.9
1/4	6,6	264.8
cb	6,3	265.1
r	6.0	265.4

271,38

200 W of Dam = E.L Eagle.

r	5.8	265.6
cb	6,3	265.1
1/4	6,9	265.0
cr	7.9	264.0
1/4	7,7	263.7
cb	6,7	264,1
s	6,9	264,5

= cb Eagle.

s	8.2	263.2
cb	7,7	263.7
1/4	8,0	263.4
cr	7,7	263.7
1/4	6,5	264.9
cb	6,3	265.1
r	6,1	265.3

371.38

E 1/4 Eagle

N	5.9	265.5	
cb.	6,1	265.3	
1/4	6,1	265.3	
c	7,1	264.3	
1/4	7,8	263.6	
cb.	8,2	263.2	
S	8,5	262.9	

or Eagle

S	8,4	263.0	
cb.	8,1	263.3	
1/4	7,7	263.7	
c	7,0	264.4	
1/4	5.7	265.7	
cb.	6,0	265.4	
N	5.7	265.7	

271.38

W 1/4 Eagle

N	5,2	266.2	
cb	6,2	265.2	
1/4	6,6	264.8	
c	7.5	263.9	
1/4	7.8	263.6	
cb.	8,1	263.3	
S	8,1	263.3	

W cb. Eagle

S	7.6	263.8	
cb	7.9	263.5	
1/4	7,6	263.8	
c	7.8	263.6	
1/4	6,9	264.5	
cb.	6.7	264.7	
N	5.5	265.9	

271.38

W & Eagle.

N.	5.9	265.5
cb.	6.5	264.9
1/4	6.8	264.6
c	7.4	264.0
1/4	7.4	264.0
cb	7.8	263.6
S	8.0	263.4

25' W of Eagle

S	7.5	263.9
cb	7.1	264.3
1/4	7.2	264.2
c	7.2	264.2
1/4	6.8	264.6
cb	6.2	265.2
N	5.5	265.9

271.38

50' W of Eagle

N.	6.9	265.5
cb	6.5	264.9
1/4	6.5	264.9
c	7.0	264.4
1/4	6.9	264.5
cb	7.0	264.4
S	7.1	264.3

75' W of Eagle.

S	6.8	264.6
cb	6.5	264.9
1/4	6.4	265.0
c	6.5	264.9
1/4	5.3	266.1
cb	4.9	266.5
N.	5.7	265.7

		271.38			
	100' W of Eagle				
N			4.6	266.8	
sh.			4.6	266.8	
1/4			5.1	266.3	
c			5.8	265.6	
1/4			6.0	265.4	
cb			6.0	265.4	
S			6.1	265.3	
T.P	7.8'	273.22	5.97	265.41	
	125' W of Eagle.				
S			7.6	265.6	
cb			6.9	266.3	
1/4			7.4	265.8	
c			7.5	265.7	
1/4			7.3	265.9	
cb			6.4	266.8	
N			6.3	266.9	

		273.22			
	150' W of Eagle				
N			5.9	267.3	
sh.			6.4	266.8	
1/4			6.9	266.3	
c			7.1	266.1	X
1/4			6.8	266.4	
cb			6.7	266.5	
S			7.0	266.2	
	175' W of Eagle.				
S			7.0	266.2	
cb			6.7	266.5	
1/4			6.5	266.7	
cb			6.9	266.3	
1/4			6.5	266.7	
sh.			5.7	266.5	
N			5.9	266.8	

2/3/22

200' N of Eagle = EL Falcon

N	5.2	268.0
cb	5.6	267.6
1/4	6.2	267.0
C	6.5	266.7
1/4	6.3	266.9
cb	6.2	267.0
S	6.7	266.5

E Cb. Falcon

S	6.3	266.9
cb	6.3	266.9
1/4	6.3	266.9
C	6.1	267.1
1/4	5.2	268.0
cb	5.0	268.2
N	5.1	268.1

2/3/22

E 1/4 Falcon

N	4.9	268.3
cb	4.8	268.4
1/4	4.9	268.3
C	5.9	267.3
1/4	6.0	267.2
cb	6.2	267.0
S	6.0	267.2

Cr Falcon

S	5.7	267.5
cb	5.8	267.4
1/4	5.8	267.4
C	6.0	267.2
1/4	5.4	267.8
cb	5.0	268.2
N	4.8	268.4

27827

W 1/4 Falcon

N.	4,4	268.8
b.	4,1	269.1
1/4	5.2	268.0
c	5,8	267.4
1/4	5,6	267.6
b	4,9	268.3
S	5.4	267.8

W b Falcon

S	5,3	267.9
b	5.3	267.9
1/4	5,3	267.9
c	5,6	267.6
1/4	5,0	268.2
b.	3,8	269.4
N	4.3	268,9

27827

W h Falcon

N.	4,1	269.1
b	4,5	268.7
1/4	5,0	268.2
c	5,4	267.8 X
1/4	5,1	268.1
b.	5,1	268.1
S	4,5	268.7

W W of Falcon

S	5.0	268.2
b.	4,7	268.5
1/4	4,6	268.6
c	5.0	268.2
1/4	4,6	268.6
b.	3,9	269.3
N	3,7	269.5

27322

50' W of Falcon

N.	3.2	270.0
b.	3.3	269.9
1/4	4.1	269.1
c	4.6	268.6
1/4	3.4	269.8
b.	4.1	269.1
S	4.5	268.7

75' W of Falcon.

S	3.9	269.3
b.	3.7	269.5
1/4	3.5	269.7
c	4.4	268.8
1/4	4.2	269.0
b.	3.6	269.6
N.	3.1	270.1

27322

100' W of Falcon -

N.	3.2	270.0
b.	3.5	269.7
1/4	4.1	269.1
c	4.6	268.6
1/4	4.4	268.8
b	4.2	269.0
S	4.3	268.9

125' W of Falcon

S	4.8	268.4
b	4.8	268.4
1/4	4.4	268.8
C	4.7	268.5
1/4	4.3	268.9
b	4.1	269.1
N	3.3	269.9

27322

150' W of Falcon

N		3.6	269.6
cb.		4,4	268.8
1/a		4.5	268.7
c		5.0	268.2
1/a		4,7	268.5
cb.		4,9	268.3
S		5.2	268.0

175' W of Falcon

S		5,4	267.8
cb.		5,2	268.0
1/a		4,8	268.4
c		5,2	268.0
1/4		4,5	268.7
cb.		4,6	268.6
N		4,1	269.1

27322

200' W of Falcon = El Goldfinch.

N		4.5	268.7
cb.		5.5	267.7
1/4		5,7	267.5
c		5,3	267.9
1/a		5,1	268.1
cb.		5,5	267.7
S		5.7	267.5
Bm	084 270.10"		26926

= cb. Goldfinch

N		1.3	268.3
cb.		2.6	267.5
1/a		1.7	268.4
c		2.3	267.8
1/a		2.2	267.9
cb.		2.5	267.6
S		3.0	267.1

270.10

E ¼ Goldfinch

S	3.1	267.0
cb.	2,9	267.2
¼a	2,7	267.4
c	2,8	267.3
¼a	2,8	267.3
cb.	3,1	267.0
N	2,5	267.6

Cr Goldfinch

N	2,8	267.3
cb	3,2	266.9
¼a	3,0	267.1
c	3,2	266.9
¼a	3,3	266.8
cb	3,1	267.0
S	2,9	267.2

270.10

NW ¼ Goldfinch

S	3,2	266.9
cb.	3,5	266.7
¼a	3,5	266.7
c	3,1	267.0
¼a	3,1	267.0
cb	3,4	266.7
N	2,7	267.4

NW cb. Goldfinch

N	2,9	267.2
cb.	3.6	266.5
¼a	3,1	267.0
c	2,9	267.2
¼a	3,1	267.0
cb	3,7	266.4
S	3,7	266.4

270.10

W h Goldfinch

S	3,7	266.4
cb	3,9	266.2
1/a	3,2	266.9
c	3,2	266.9
1/a	3,3	266.8
cb	3,7	266.4
N	3,7	266.4

25' W of Goldfinch

N	4.1	266.0
cb	3.6	266.5
1/a	4,0	266.1
c	4,1	266.0
1/a	3,9	266.2
cb	4,0	266.1
S	4.0	266.1

270.10

50' W of Goldfinch

S	4.1	266.0
cb	4,0	265.7
1/a	4,2	265.9
c	4.4	265.7
1/a	4,2	265.9
cb	4,1	266.0
N	4.4	265.7

75' W of Goldfinch

N	4.4	265.7
cb	4,4	265.7
1/a	4,5	265.6
c	4.9	265.2
1/a	4.7	265.4
cb	4.9	265.2
S	5,0	265.1

270.10

100' W of Goldfinch

S	5.7	264.4
cb	5.4	264.7
1/4	5.2	264.9
C	5.1	265.0
1/4	4.9	265.2
cb	4.7	265.4
N	4.6	265.5

125' W of Goldfinch

N	4.1	266.0
cb	5.2	264.9
1/4	5.5	264.6
C	5.5	264.6
1/4	5.7	264.4
cb	6.1	264.0
S	6.2	263.9

270.10

150' W of Goldfinch

S	7.1	263.0
cb	6.9	263.2
1/4	6.6	263.5
C	6.2	263.9
1/4	5.9	264.2
cb	5.7	264.4
N	5.6	264.5

175' W of Goldfinch

N	5.6	264.5
cb	5.4	264.7
1/4	5.9	264.2
C	6.9	263.2
1/4	7.0	263.1
cb	7.5	262.6
S	7.8	262.3

270.10

200 W of Goldfinch = E b. Hawk

S		8.4	261.7
b		8.5	261.6
1/4		7.2	262.9
c		7.4	262.7
1/c		7.4	262.7
cb		6.4	263.7
N		5.6	264.5

E cb. Hawk.

N		5.7	264.4
cb		4.4	263.7
1/c		8.5	261.6
c		9.0	261.1
1/c		9.5	260.6
b		9.9	260.2
S		10.0	260.1
T.P	4.58	261.02	10.66	259.44

264.02

E 1/4 Hawk -

6 ft. of line

		8.9	255.1
S		8.0	256.0
cb		9.6	254.4
1/c		6.6	257.4
c		3.8	260.2
1/c		2.5	261.5
cb		1.9	262.1
N		0.9	263.1

cr Hawk.

N		1.7	262.3
cb		2.1	261.9
1/c		2.3	261.7
c		2.5	261.5
1/c		6.0	258.0
cb		9.4	254.6
S		13.5	250.5
+13		15.3	248.7

POSTED

264.02

W 1/4 Hawk.

10 S.	9,5	254.5
S.L.	9.1	254.9
d.	9,0	255.0
1/4	6,3	257.7
c	4,0	260.0
1/a	2,7	261.3
b.	2,3	261.7
N	1,7	262.3

W1 cb. Hawk.

N	1,9	262.1
b.	2,2	261.8
1/4	2,7	261.3
c	3,8	260.2
1/4	5,3	258.7
b	5,5	258.5
S	5,2	258.8

POSTED

17

264.02

W L Hawk.

S	3.4	260.6
b	3,3	260.7
1/a	3,3	260.7
c	2,5	261.5
1/a	2,1	261.9
b	2,1	261.9
N	1,6	262.4

X Sect Kalama 3. to 4th

POSTED

	0.05	H.I. 230.80	230.75	B.M.
	W. line 4th			
N. line		5.4		225.4
		5.4		225.4
		6.1		224.7
C		6.9		223.9
		7.5		223.3
		7.6		223.2
So. line		7.6		223.2
	25' W			
So. line		8.7		222.1
		7.9		222.9
		7.2		223.6
C		6.6		224.2
		6.1		224.7
		6.2		224.6
N line		6.1		224.7

May 28. 1907 { Childs, Evans, Barber

	230.80			
	50' W			
N line		7.1		223.7
		7.0		223.8
		6.1		224.7
C		6.2		224.6
		7.3		223.5
		7.8		223.0
So line		8.4		222.4
	75' W			
So. line		7.5		223.3
		6.7		224.1
		6.5		224.3
C		6.7		224.1
		10.5		220.3
		15.1		215.7
N line		9.5		221.3

230.80

100' W

N. line			10.9		219.9
		H.I.			
J.P.	0.23	218.92	12.11	218.69	
		100' W			
N cb			9.2		209.7
			13.1		205.8
C			10.6		208.3
			8.1		210.8
			7.4		211.5
So. line			7.0		211.9
		125' W			
N line			2.5		216.4
		146' W			
N line			5.2		213.7
		150' W			
N line			5.7		213.2
		168' W			
N. line			4.6		214.3
		175' W			
N line			4.2		214.7

218.92

East line 3rd

N line			6.2		212.7
2' So. of N line		POSTED	10.0		208.9
			8.8		210.1
			6.4		212.5
C			5.0		213.9
			7.9		211.0
			7.5		211.4
So. line			6.1		212.8
		H.I.			
J.P.	0.32	206.39	12.85	206.07	
		125' W			
N cb			0.9		205.5
			7.7		198.7
C			8.6		197.8
			7.6		198.8
			6.7		199.7
So. line			7.1		199.3

206,39

146' W

So line	13.8	192.6	
	12.7	193.7	
	11.4	195.0	
C	10.0	196.4	
	8.6	197.8	
N. cb	1.6	204.8	

150' W

N cb.	1.8	204.6	
	7.9	198.5	
C	9.7	196.7	
	11.3	195.1	
	12.5	193.9	
So. line	13.4	193.0	

206,39

168' W

So. line	13.1	193.3	
	11.8	194.6	POSTED
	9.4	197.0	
C	8.4	198.0	
	7.6	198.8	
N. cb	2.9	203.5	

175' W

N. cb	1.7	204.7	
cb + 6'	4.1	202.3	
1/4	5.6	200.8	
C	6.0	200.4	
	7.1	199.3	
	7.7	198.7	
So. line	8.9	197.5	

6/28/07 Hatch Donnan Emery

Levels Univ. Ave 6th – 8th

POSTED

8th Univ.	393	287.74		283.81	
SE Cor 6 Cb.			4.2		283.5
Gutter			4.65		283.0
Centre			4.8		282.9
EL 6th (5' E of SE Cor)					
S cb			4.2		283.5
gutter			4.9		282.8
Centre			4.75		283.0
gutter			5.6		282.1
N. cb.			5.1		282.6
50' E					
N			4.85		282.8
gutter			5.45		282.3
Centre			4.6		283.1
Gutter			4.7		283.0
S			4.05		283.6

W.E. 7 29.5 N 590
E.L. 36 S 661

287.74

100' E

POSTED

S			3.9		283.8
gutter			4.8		282.9
Centre			4.45		283.2
Gutter			5.3		282.4
N.			4.5		283.2
150' E					
N			4.7		283.0
gutter			5.2		282.5
Centre			4.35		283.4
gutter			4.9		282.8
S			4.8		282.9
200' E					
S			5.15		282.5
gutter			5.15		282.6
Centre			4.15		283.5
Gutter			5.05		282.6
N			4.7		283.0

287.74

260' E

N.	4.7	283.0
Gutter	5.15	282.5
Centre	4.05	283.6
Gutter	5.05	282.6
S	5.05	282.6

295 WL 7th

S	5.25	282.5
Gutter	5.25	282.4
Centre	3.9	283.8
Gutter	5.0	282.7
N.	4.6	283.1

328 Centre 7th

N.	4.45	283.3
Gutter	4.85	282.8
Centre	3.9	283.8
Gutter	4.8	282.9
S	4.8	282.9

287.74

361 E EL 7th

POSTED

S	4.3	283.4
Gutter	4.65	283.0
Centre	3.8	283.9
Gutter	4.7	283.0
N	4.3	283.4

400' E

N	4.1	283.6
Gutter	4.55	283.1
Centre	3.75	284.0
Gutter	4.55	283.2
S	4.25	283.4

450' E

S	4.0	283.7
Gutter	4.35	283.4
Centre	3.55	284.2
Gutter	4.3	283.4
N	3.55	283.8

287.74

500' E

N.	3.75	284.0
Gutter	4.2	283.5
Centre	3.4	284.3
Gutter	4.4	283.3
S	4.1	283.6

550' E

S	3.3	284.4
Gutter	4.25	283.5
Centre	3.3	284.4
Gutter	4.05	283.6
N.	3.55	284.1

590' E WL 8m on North.

N	3.25	284.4
Gutter	3.85	283.8
Centre	3.45	284.2
Gutter	4.4	283.3
S	3.5	284.2

287.74

661' E

POSTED

S	3.7	284.0
Gutter	4.35	283.4
Centre	3.45	284.2

All streets parallel both ways.
All tie points 13' south & west of center

S
N

Washington — spk — 90° 02' — 280.34
Tack ⊡ 7
363.1'

Getti — Pin — 90° 02'
Dove Street
350.6'

Lewis — Pin — 90° 02'
350.6'

Broadway — Pin — 90° 02'

Broadway — Pin — 90° 02'
POSTED
360.2'

Stockton — Hub — 90° 02'
Dove Street
350.0'

Hunter — Pin — 90° 02'
350.0'

Pin — 90° 02'

Barr ave.

Washington — spk — 90°02' — 280.18

Tack 07

363.1

Getti — Hub — 90°02'

Eagle Street

340.6

Lewis — Hub — 90°02'

340.6

Broadway — spk — 90°02'

Broadway — spk — 90°02'

340.2

Stockton — spk — 90°02'

Eagle Street

340.0

Hunter — spk — 90°02'

340.0

spk — 90°02'

Barr ave.

Washington — Hub — 90° 02' — 280.08

Tack

363.1

Getti — spk — Tack — 90° 02'

Tack

Falcon Street

350.6

12' 7' — Hub

Lewis

350.6

Broadway — Hub — 90° 02'

Broadway — Hub — 90° 02'

350.2

Stockton — Hub — 90° 02'

Falcon Street

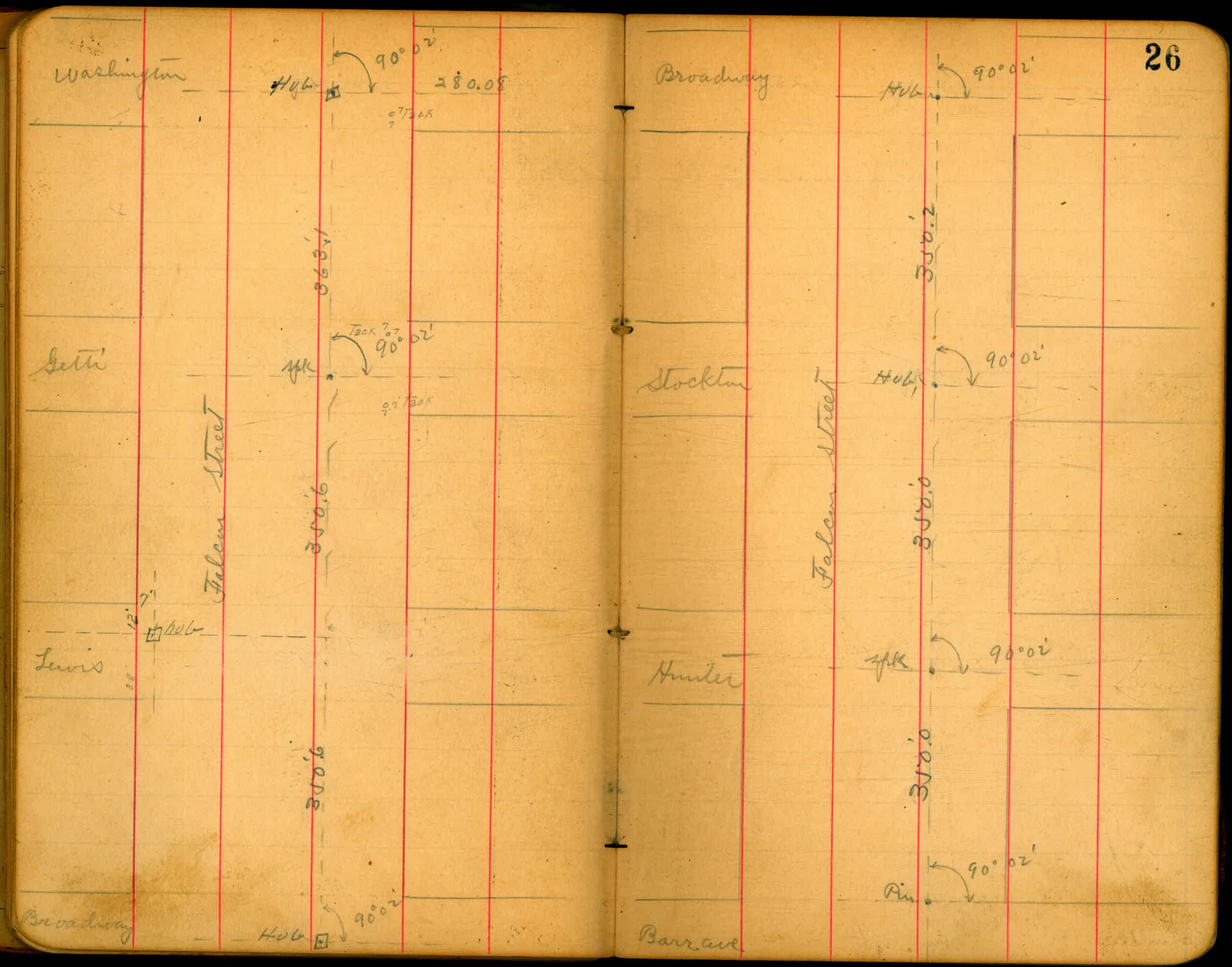
350.0

Hunter — spk — 90° 02'

350.0

Pin — 90° 02'

Barr ave



Washington — spk 90° 02' 280.7
Tack 07

363.1

Getti — spk 90° 02'
Tack 07

Goldfinch Street

350.6

see page 34

Lewis — spk 90° 02'

350.6

Broadway — Pin 90° 02'

Broadway — Pin 90° 02'

350.2

Stockton — ~~spk~~ 90° 02'
hub

Goldfinch Street

350.0

Hunter — Pin 90° 02'

350.0

spk 90° 02'

Barrave.

Washington — spk — 90°02'

7 o Tack
7

363.1

7' ⊡ Hole

Getti — spk — 90°02'

Hawk Street

350.6

see page 34

Lewis — spk — 90°02'

350.6

Broadway — spk — 90°02'

Broadway — spk — 90°02'

350.2

POSTED

Stockton — Pin — 90°02'

Hawk Street

350.0

Hunter — spk — 90°02'

280.0

350.0

spk — 90°02'

Barr Ave.

Ties to Lewis St
at Hawk & Goldfinch
4-29-08
Lockwood
Evans
Forward

POSTED

Levels over University Ave. 6th – 8th. 10/18/07 {Davis, Donis, Collett}

POSTED

	4.29	287.83		283.54 – B.M. S.E. 6th & Univ

E. line 6th St (on south side of St

So			4.1	283.73
Cb			4.32	283.51
Gutr.			4.8	283.03
South Rail			4.7	283.13
North "			4.92	282.91

5 E of 6th on South 0+00 E. line 6th on North

So			4.0	283.83
Cb			4.34	283.49
Gutr			4.8	283.03
South Rail			4.71	283.12
North "			4.94	282.89
Gutr			5.5	282.33
Cb			5.2	282.63
No			5.2	282.63

25 E of 6th

No			5.0	282.83
Cb			5.1	282.73
Gutr			5.6	282.23
No. Rail			4.94	282.89
So "			4.65	283.18
" Gutr			5.0	282.83
" Cb			4.26	283.57
So			4.0	283.83

50' E

So			3.9	283.93
Cb			4.15	283.68
Gutr			4.9	282.93
So Rail			4.56	283.27
No "			4.83	283.00
Gutr			5.6	282.23
Cb			5.0	282.83
No			4.8	283.03

28783

75 E of 6th

No	4.7	283.13
Ct	4.7	283.13
Gutr	5.6	282.33
No. Rail	4.72	283.11
So "	4.50	283.33
Gutr	4.9	282.93
Ct	4.07	283.96
So	4.0	283.83

83 E - beginning of Cement ct - No side

So	4.0	283.83
Ct	4.05	283.78
Gutr	4.9	283.93
So Rail	4.77	282.86
No "	4.67	283.16
Gutr	5.6	282.33
Ct	4.53	283.30
No	4.7	283.13

Univ Ave.

100 E - 6th

No	4.6	283.23
Ct	4.62	283.21
Gutr	5.4	282.43
No. Rail	4.60	283.23
So "	4.42	283.41
Gutr	4.9	282.93
Ct	4.00	283.83
So	3.7	284.13

125 E

So	3.7	284.13
Ct	3.95	283.88
Gutr	4.9	282.93
So Rail	4.34	283.49
No "	4.53	283.30
Gutr	5.3	282.53
Ct	4.71	283.12
No	4.7	283.13

28783

135 E = WL. Alley So Side = End Connections.

No	4.6	283.23
Ct	4.74	283.09
Centr	5.4	282.43
N. Rail	4.49	283.39
So "	4.30	283.53
Gutr	4.8	283.03
Ct	3.91	283.92
So	3.9	283.93

165 E = E. line Alley so So.

So	4.8	283.03
Ct - Centr	5.1	282.73
So Rail	4.29	283.54
No "	4.45	283.38
Centr	5.3	282.53
Ct	4.83	283.00
No	4.7	283.13

Univ. Ave

180' E of 6th

No	4.5	283.33
Ct	4.90	282.93
Centr	5.3	282.53
No Rail	4.34	283.49
So "	4.22	283.61
Ct. Centr	5.25	282.58
So	4.8	283.03

POSTED

200 E

So	4.8	283.03
Ct. Centr	5.35	282.58
So Rail	4.14	283.69
No "	4.27	283.56
Centr	5.3	282.53
Ct	4.81	283.02
No	4.6	283.23

287.83

330 E of 6th

N.	4.75	283.08
Ct.	4.85	283.0
Centr	5.25	282.58
No Rail	4.18	283.65
Do. S.	4.06	283.77
N. Centr	5.3	282.53
S.	5.0	282.83

355 E

S.	5.1	282.73
N. Centr	5.25	282.58
S. Rail	3.98	283.85
No. "	4.10	283.73
Centr	5.2	282.63
Ct	4.83	283.00
No	4.6	283.23

Univ. Ave.

380 E. of 6th

N.	4.6	283.33
Ct	4.78	283.05
Centr	5.2	282.63
No Rail	4.06	283.77
S. "	3.96	283.87
N. Centr	5.30	282.53
S.	4.7	283.13

395 E of 6th - W.L. 7th - S. side St

So	4.6	283.20
N. Centr	5.3	282.53
S. Rail	3.90	283.93
No "	4.02	283.81
Centr	5.2	282.63
Ct	4.75	283.09
No	4.5	283.23

287.83

318 E of 6th - Ctr 7th - S. Side

No.	4.4	283.43
Ct	4.59	283.24
Center	5.0	282.83
No Rail	3.94	283.89
So "	3.89	283.94
Ct Center	5.0	282.83
So	4.6	283.23

361 E - E.L. 7th. S. Side

So.	4.1	283.73
Ct. Center	4.7	283.13
So Rail	3.95	283.88
No "	3.92	283.91
Center	4.9	282.93
Ct	4.43	283.39
No	4.1	283.73

Univ. Ave.

26 E of 7th

No.	4.1	283.73
Ct	4.32	283.51
Center	4.8	283.03
No. Rail	3.83	284.0
So "	3.87	283.96
Center	4.7	283.13
Ct	4.4	283.43
So	3.7	284.13

50 E of 7th

So	4.1	283.73
Ct	4.4	283.43
Center	4.7	283.13
So Rail	3.75	284.08
No "	3.72	284.11
Center	4.7	283.13
Ct	4.20	283.63
No	3.8	284.13

28783

75 E of 7th

N.	3.8	284.03
Ct	4.13	283.70
Centr	4.50	283.33
No Rail	3.64	284.19
So "	3.63	284.20
Centr	4.5	283.33
Ct	4.2	283.63
So.	3.7	284.13

100 E 7th

So	3.7	284.13
Ct	4.1	283.73
Centr	4.5	283.33
So Rail	3.54	284.29
No "	3.62	284.21
Centr	4.40	283.43
Ct	3.98	283.85
No	3.60	284.23

Univ. Ave.

125 E of 7th

N	3.5	284.33
Ct	3.91	283.92
Centr	4.4	283.43
No Rail	3.53	284.30
So "	3.46	283.37
Centr	4.6	283.33
Ct	4.2	283.63
So.	3.6	284.23

POSTED

140 E = W.L. Alley on So.

So	3.7	284.13
Ct	4.2	283.63
Centr	4.4	283.43
So Rail	3.41	284.42
No "	3.48	284.35
Centr	4.4	283.43
Ct	3.85	283.98
No	3.5	284.33

287.83

160' E of 7th = E.L. Alley So. Side - beginning at Center Line So.

No.	3.4	284.43
Ct	3.75	284.08
Center	4.3	283.50
No Rail	3.40	284.43
So "	3.38	284.45
Center	4.3	283.53
Ct	3.27	284.56
So	3.10	284.73

175 E 7th

So	3.3	284.53
Ct	3.38	284.45
Center	4.2	283.53
So Rail	3.36	284.47
No "	3.36	284.47
Center	4.2	283.63
Ct	3.72	284.17
No	3.3	284.53

Univ. Ave.

200 E of 7th

No	3.2	284.63
Ct	3.59	284.24
Center	4.1	283.73
No Rail	3.43	284.40
So "	3.39	284.44
Center	4.1	283.43
Ct	3.44	284.39
So	3.5	284.33

230' E of 7th = W.L. 8th St. N. Side:

So	3.5	284.33
Ct	3.60	284.22
Center	4.4	283.43
So Rail	3.43	284.40
No "	3.57	284.26
Center	4.0	283.83
Ct	3.38	284.45
No	3.3	284.53

287.83

265 E of 7th - Ctr 8th No Side

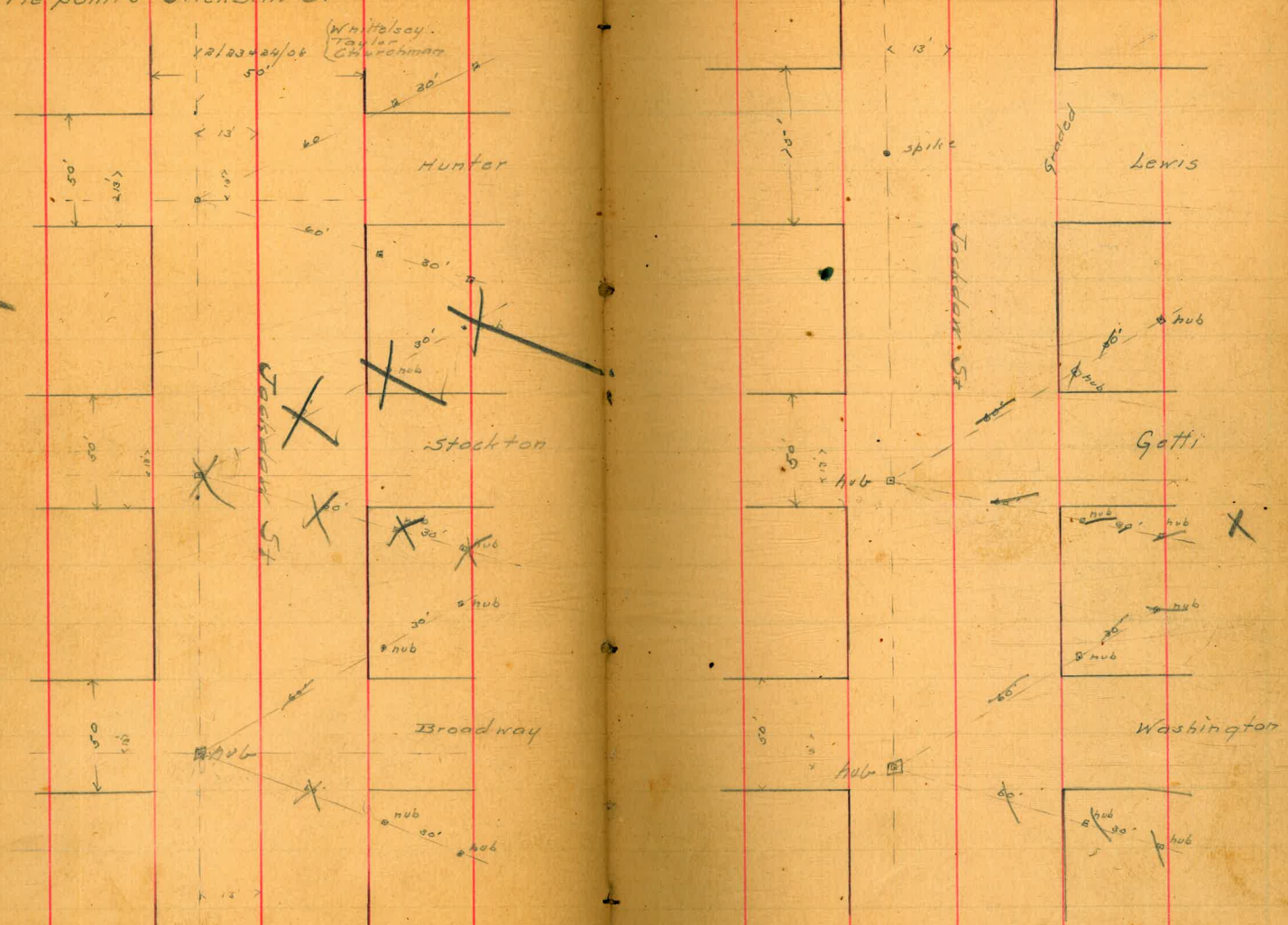
No	3.9	283.93
Ct Centr	4.0	280.83
No Rail	3.57	284.26
So "	3.48	284.35
Centr	4.5	283.33
Ct	3.74	284.09
So	3.6	283.23

300 E of 7th = E. 8th on No & W.L 8th on So

So	3.7	284.13
Ct	3.85	283.98
Centr	4.5	283.33
So Rail	3.54	284.29
No "	3.57	284.26
Centr	4.1	283.73
Ct	3.78	284.05
No	3.1	284.73

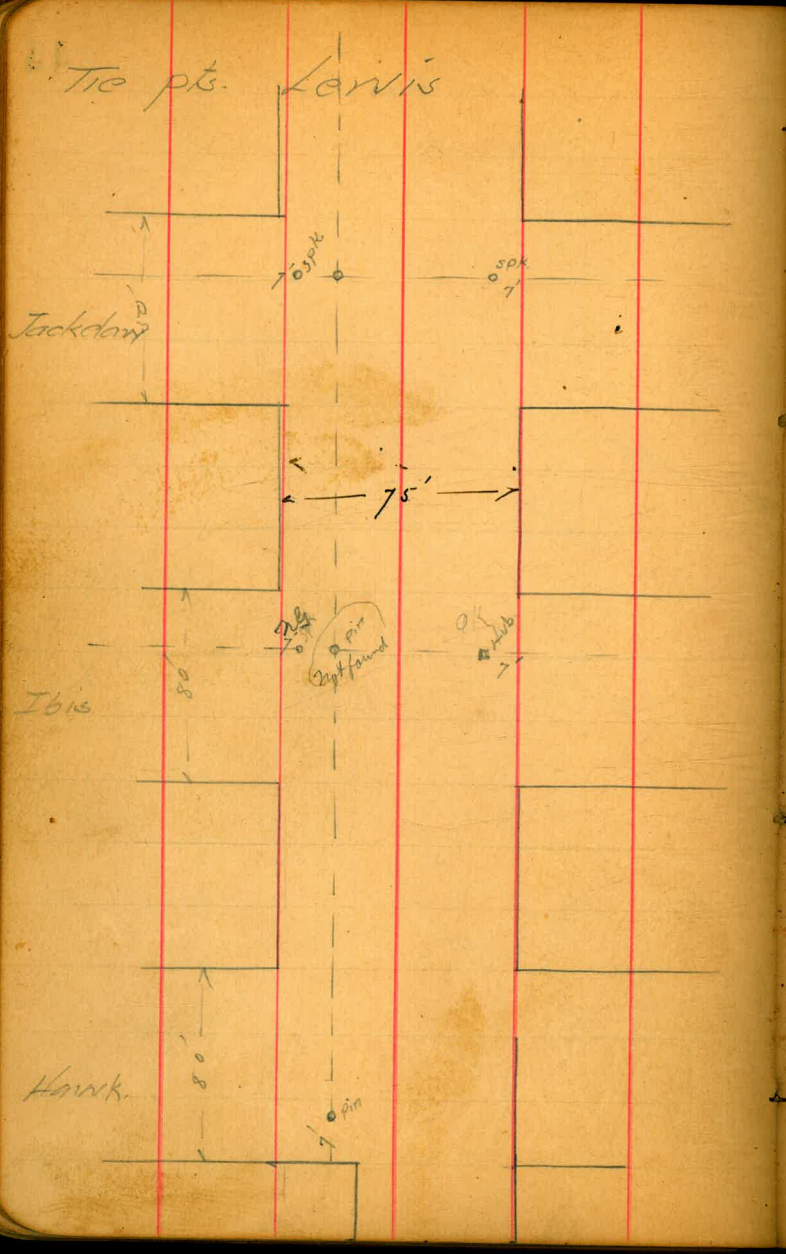
POSTED

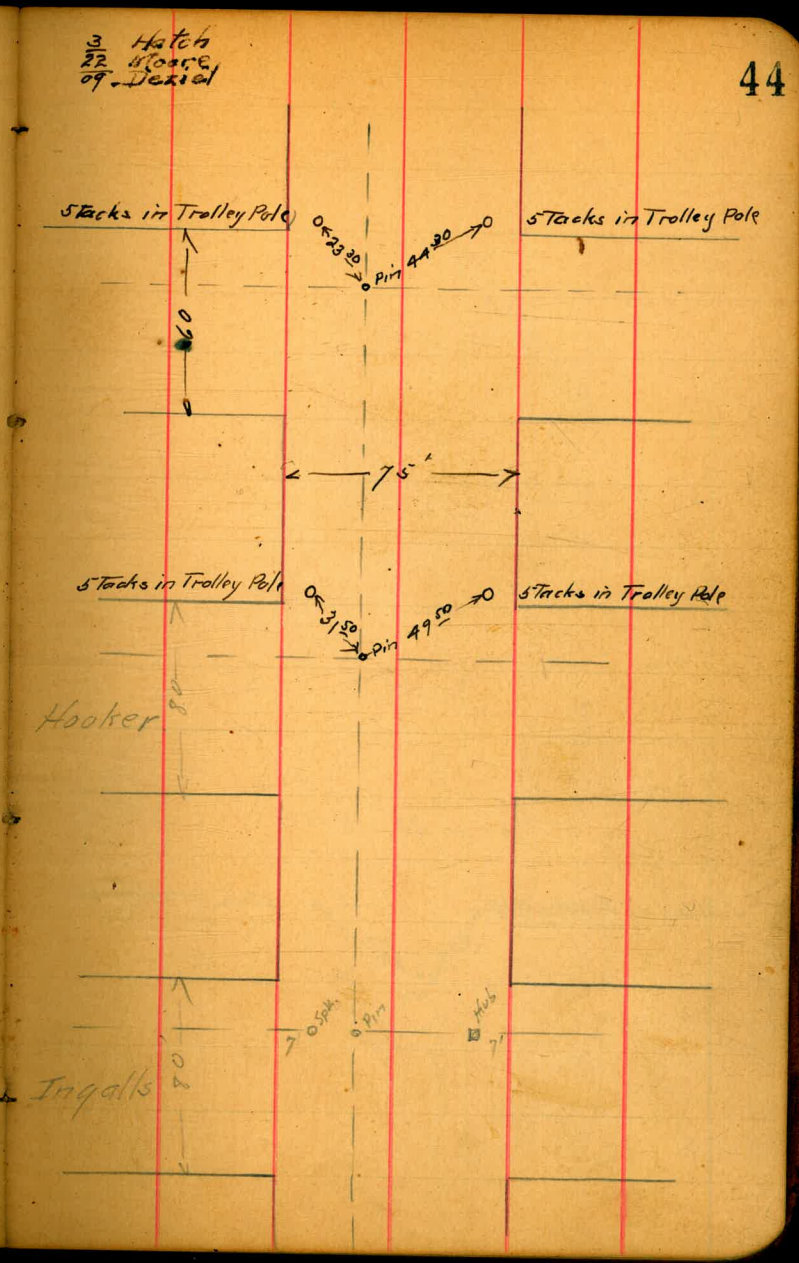
Tie points JACKDAW St-

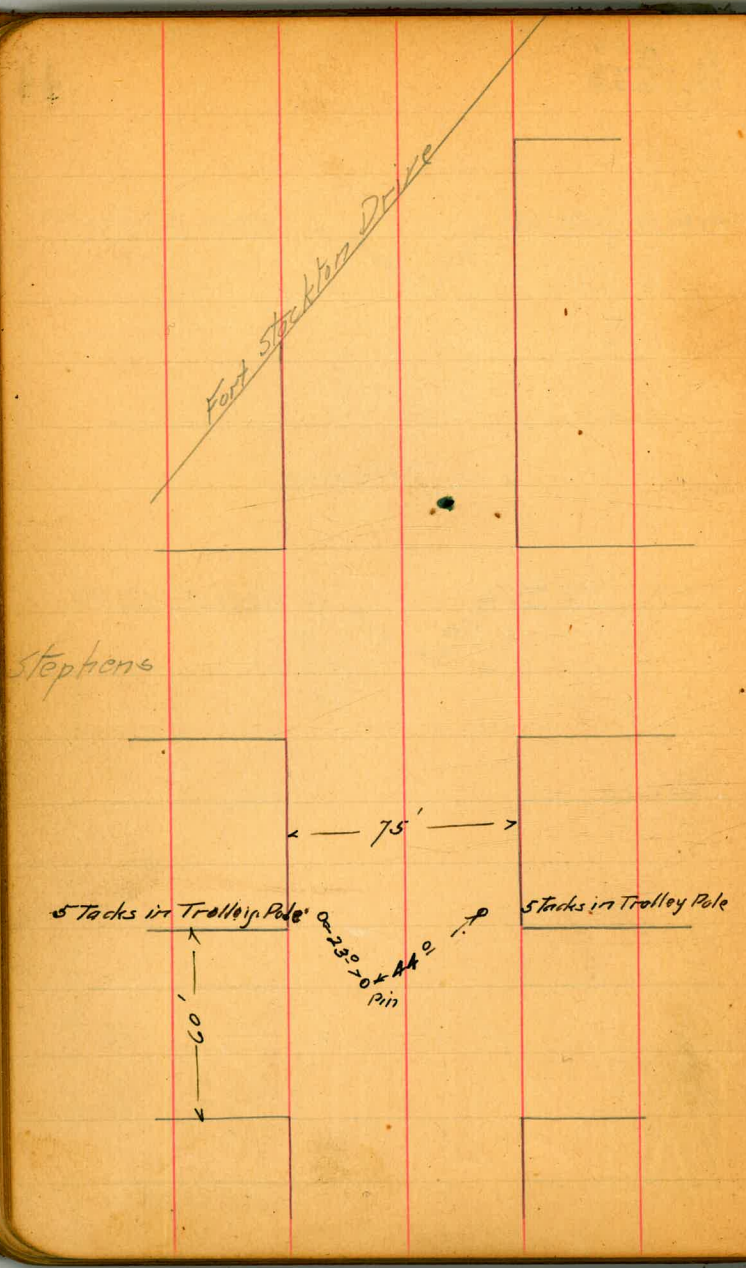


All tie points 13' So & West of Centre lines

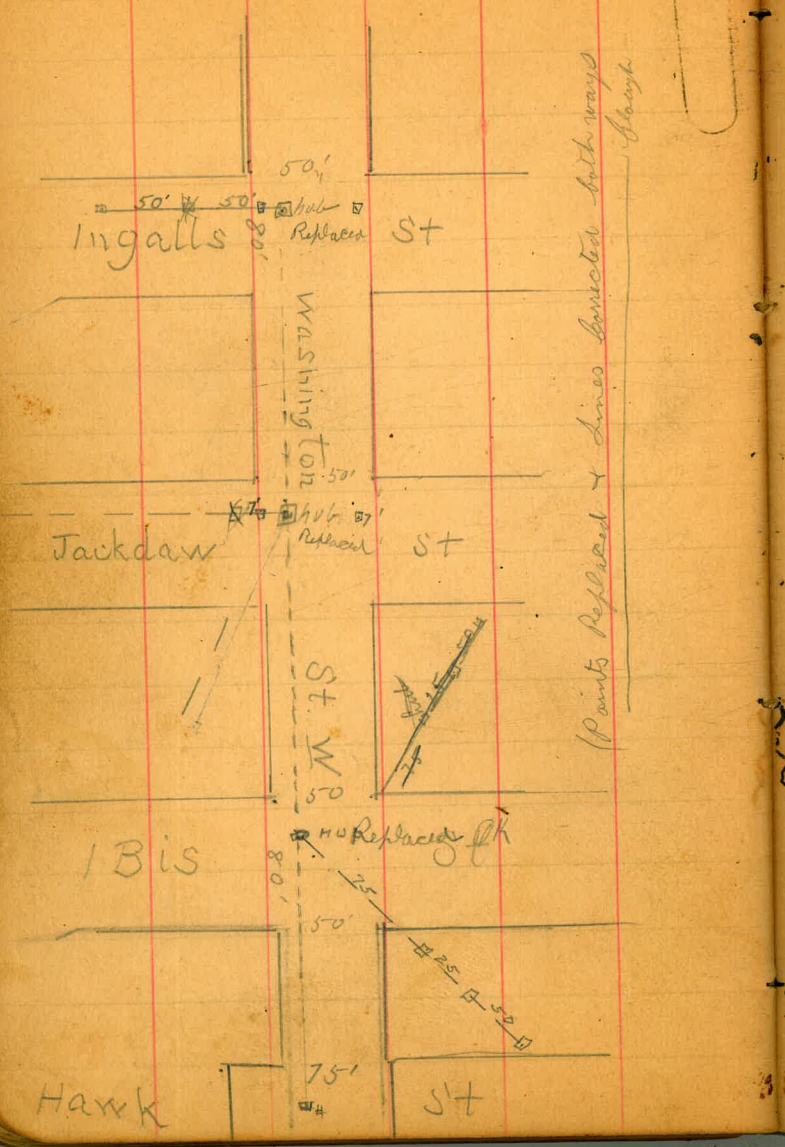
3 Hatch
22 Moore
09 Dezial

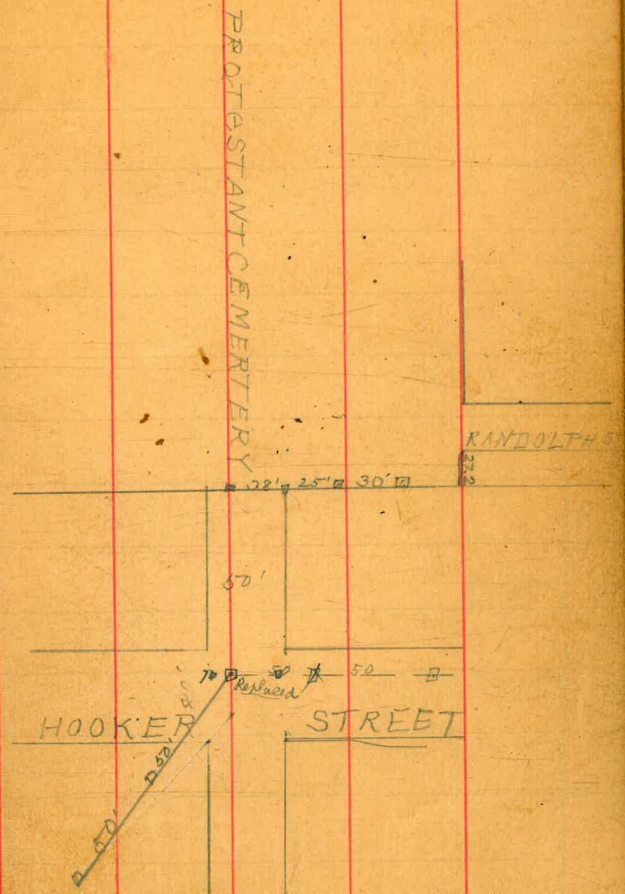


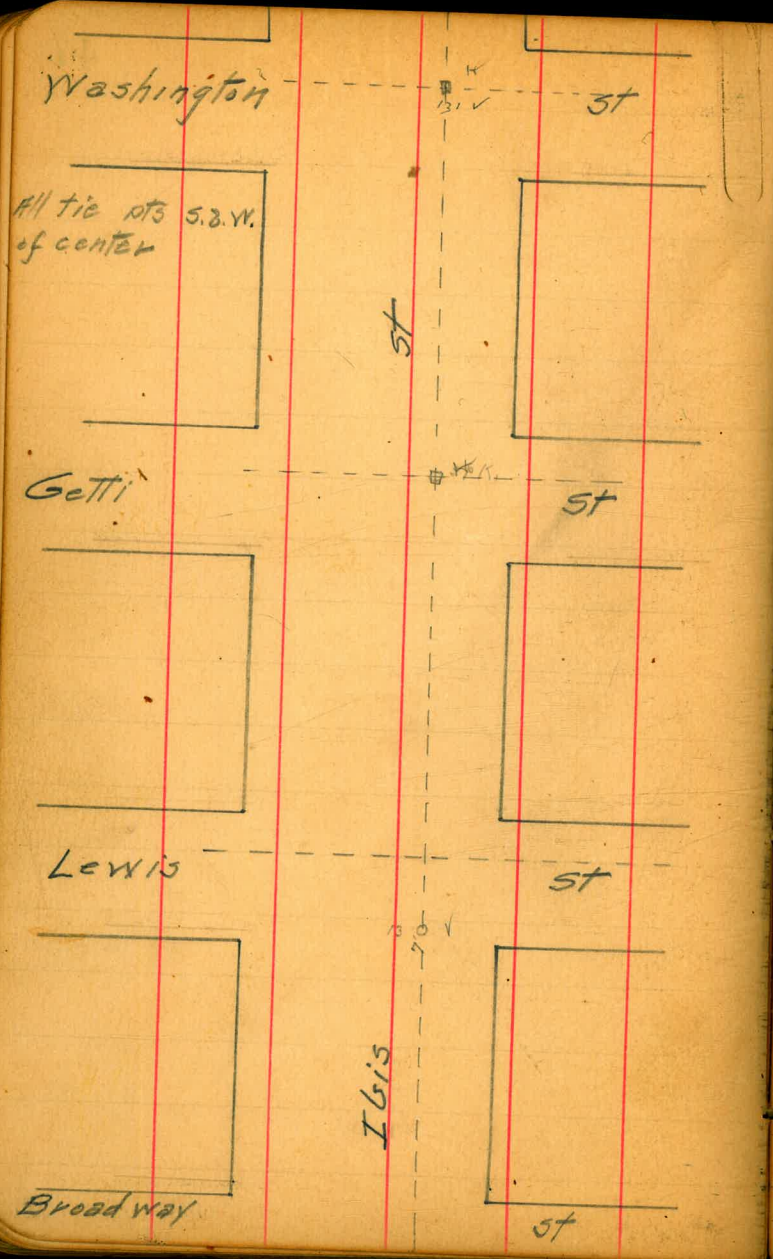


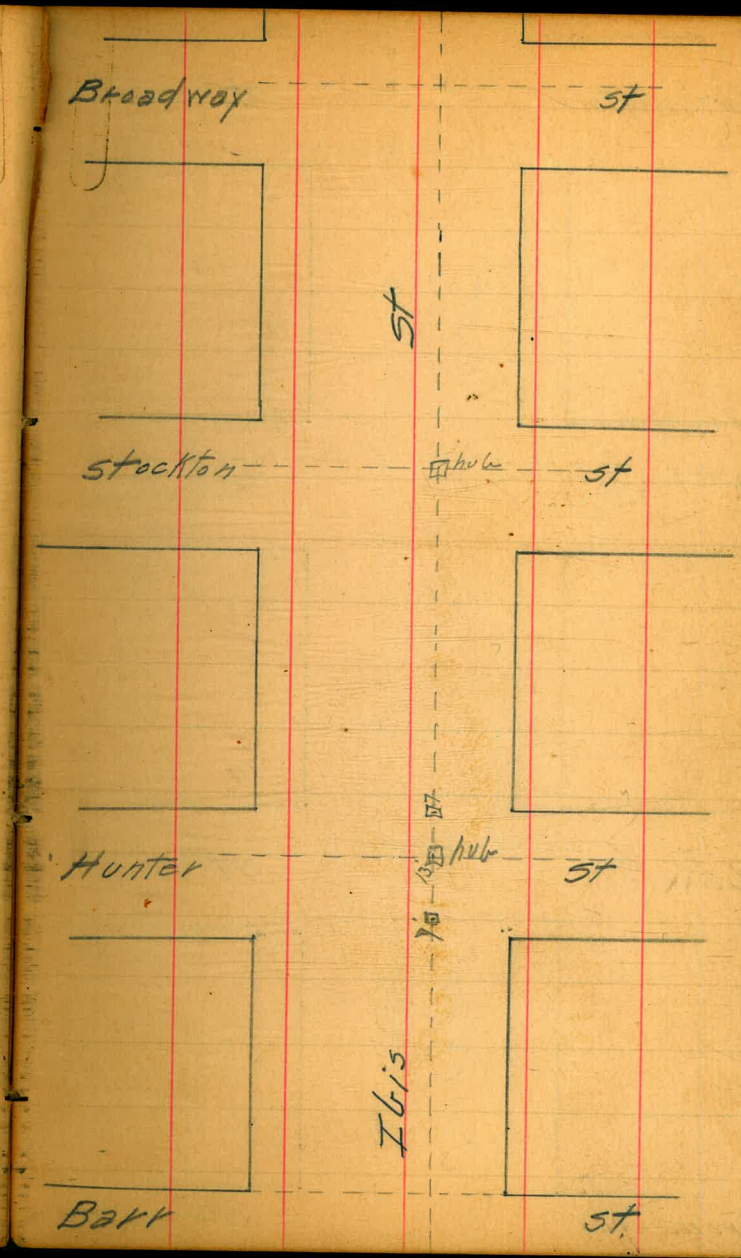

Fort Stockton Drive
Stephens
75'
5 Tacks in Trolley Pole
5 Tacks in Trolley Pole
60'

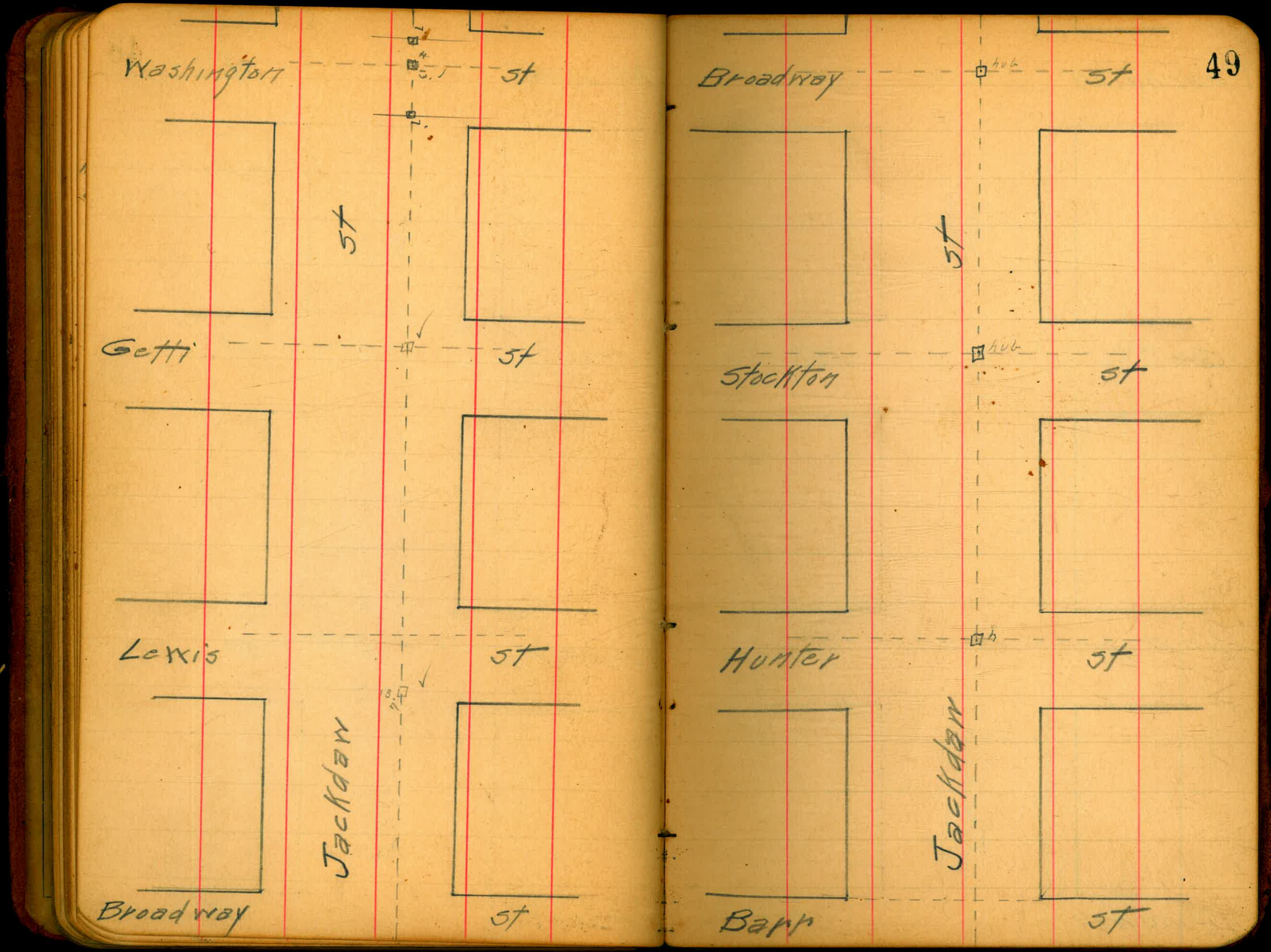
Tie Points Washington St. West of Hawk
13' S + W of Center 50' Street

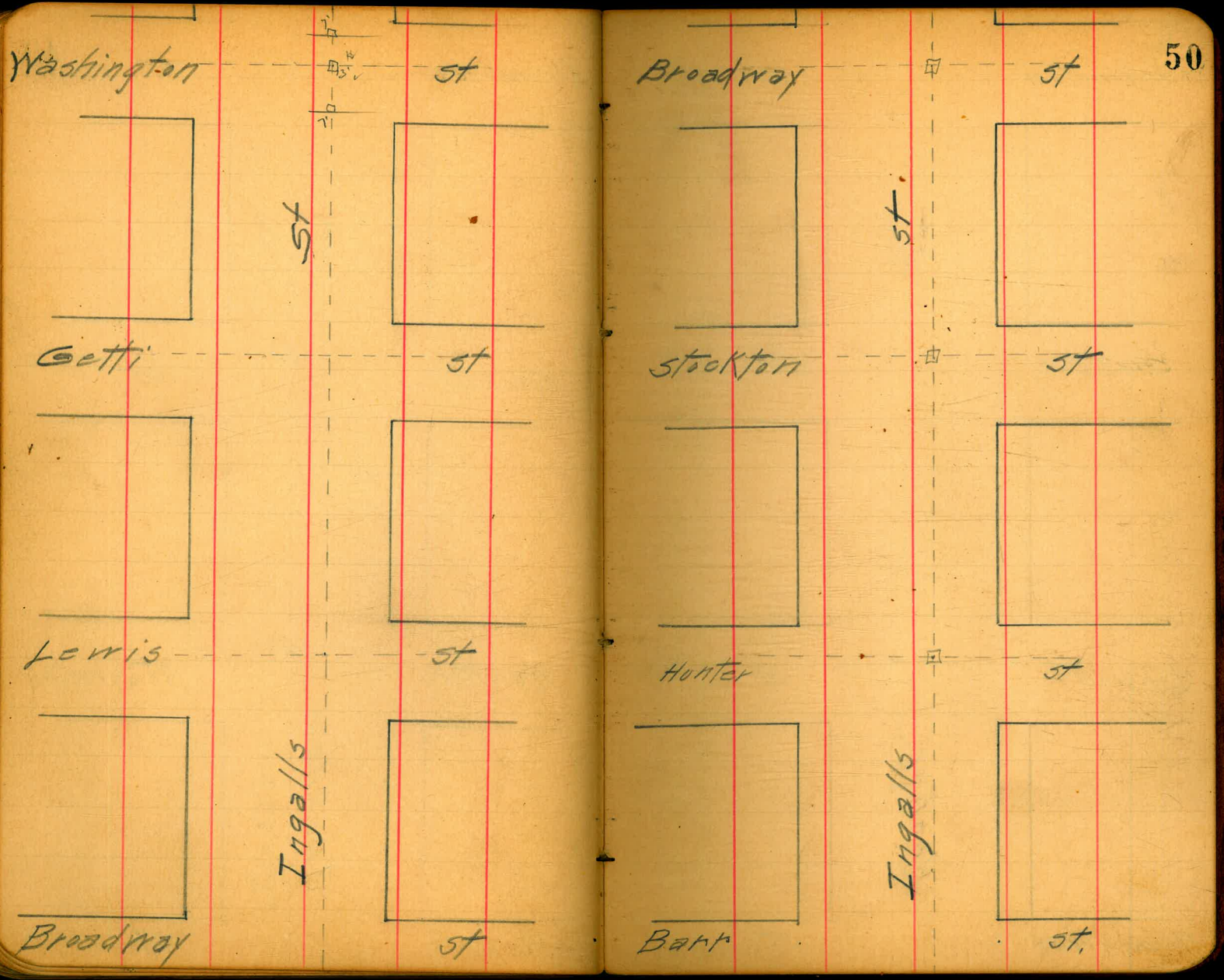


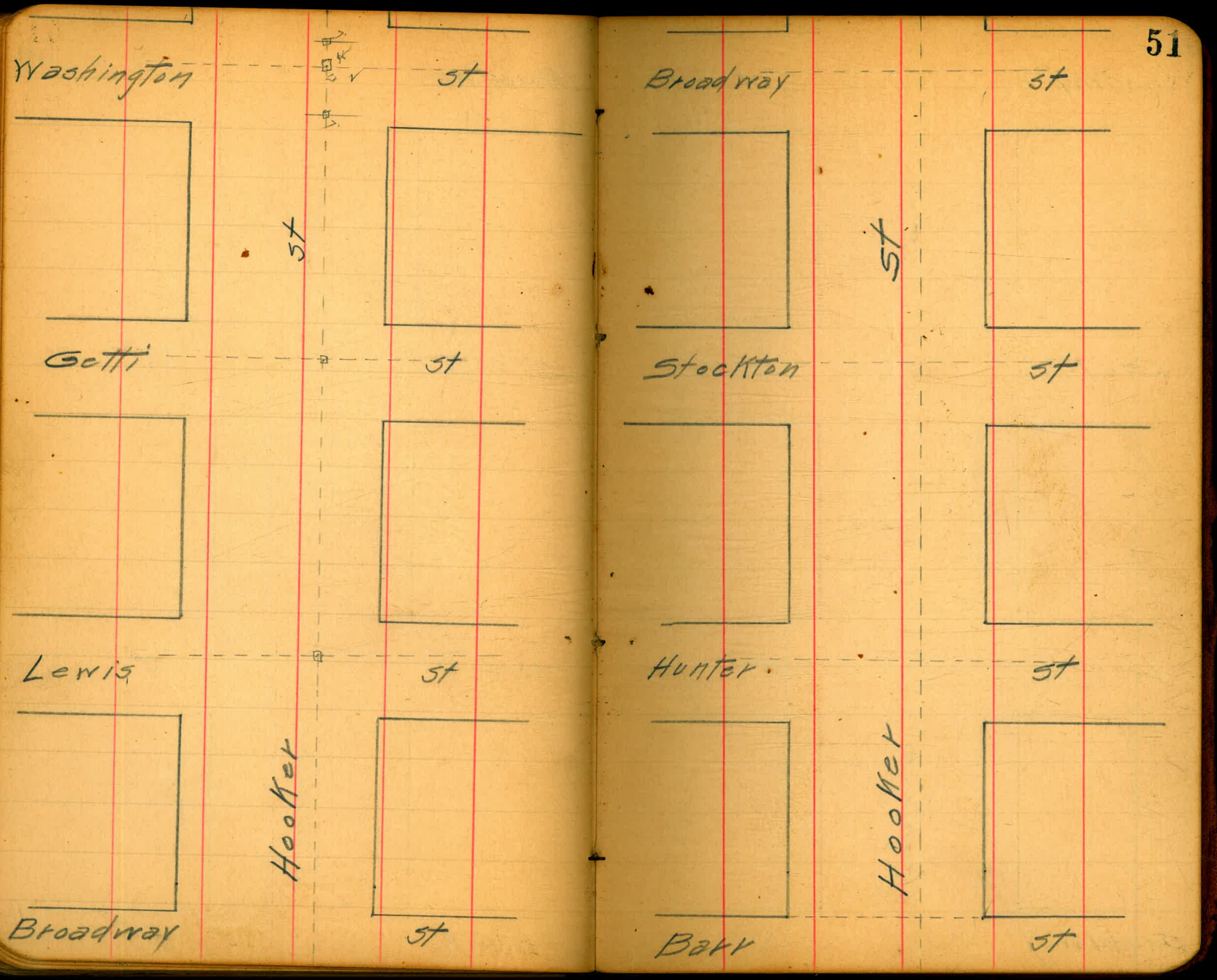


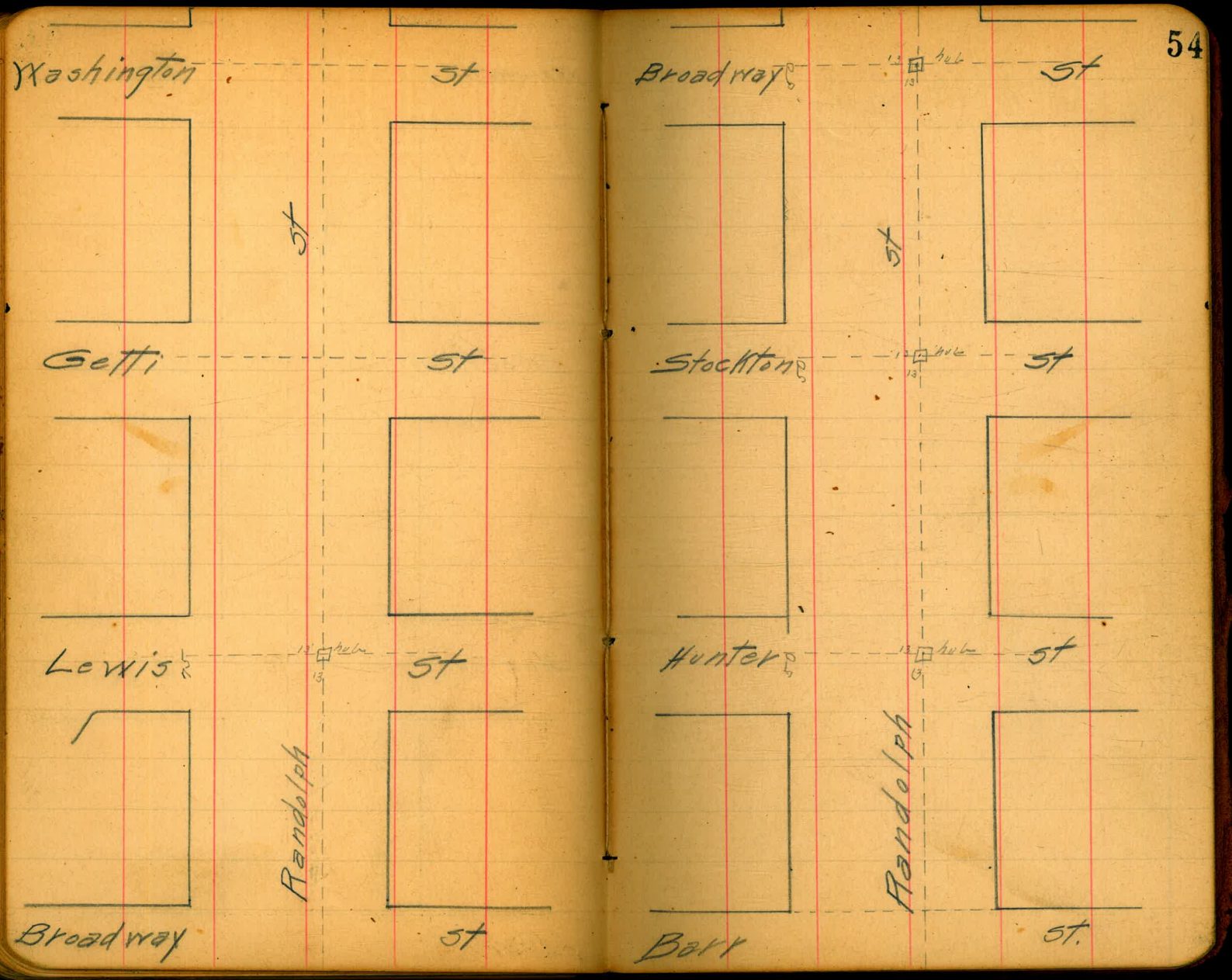

Washington
st
All tie pts S.&W. of center
st
Getti
st
Lewis
st
Ibis
Broadway
st

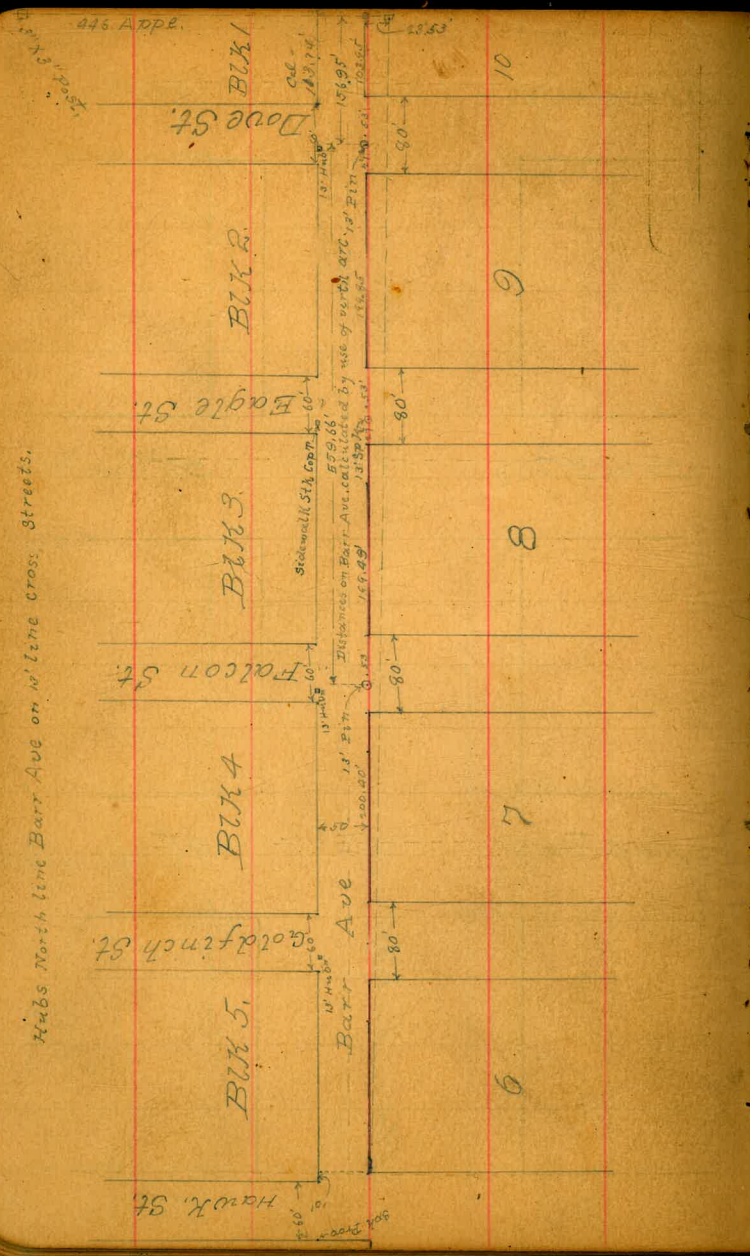

Broadway
st
st
Stockton
hub
st
Hunter
hub
st
Ibis
Barr
st

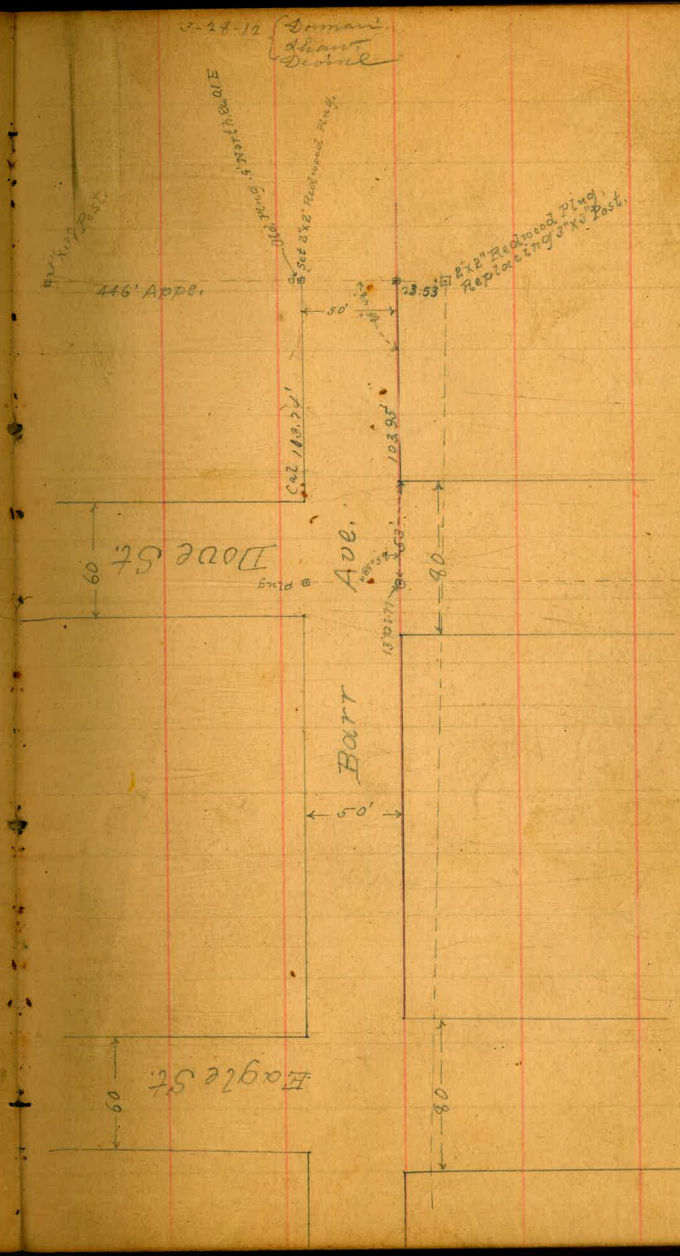

Washington
St
St
Getty
St
Lexis
St
Jackson
Broadway
St
Broadway
St
St
Stockton
St
Hunter
St
Jackson
Bay
St

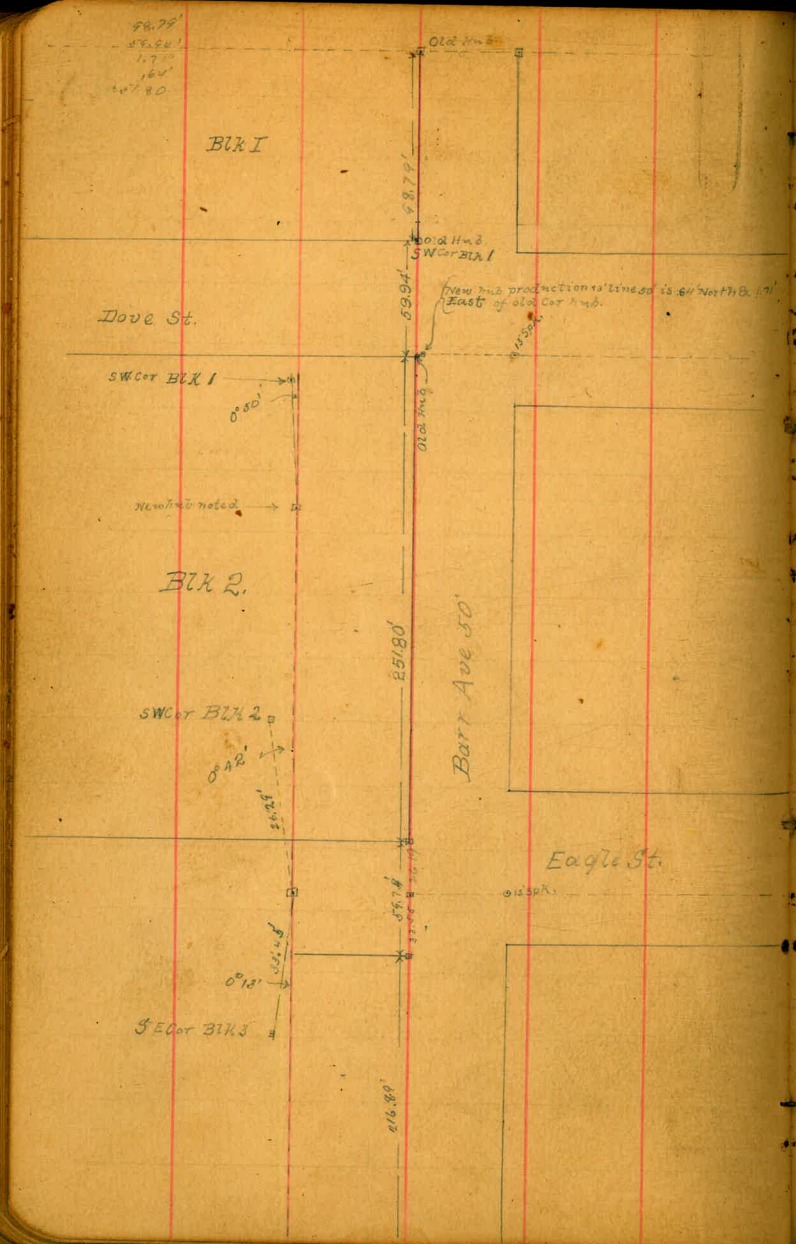

Washington
St
St
Getti
St
Lewis
St
Ingalls
St
Broadway
St
Broadway
St
St
Stockton
St
Hunter
St
Ingalls
St
Bank
St.

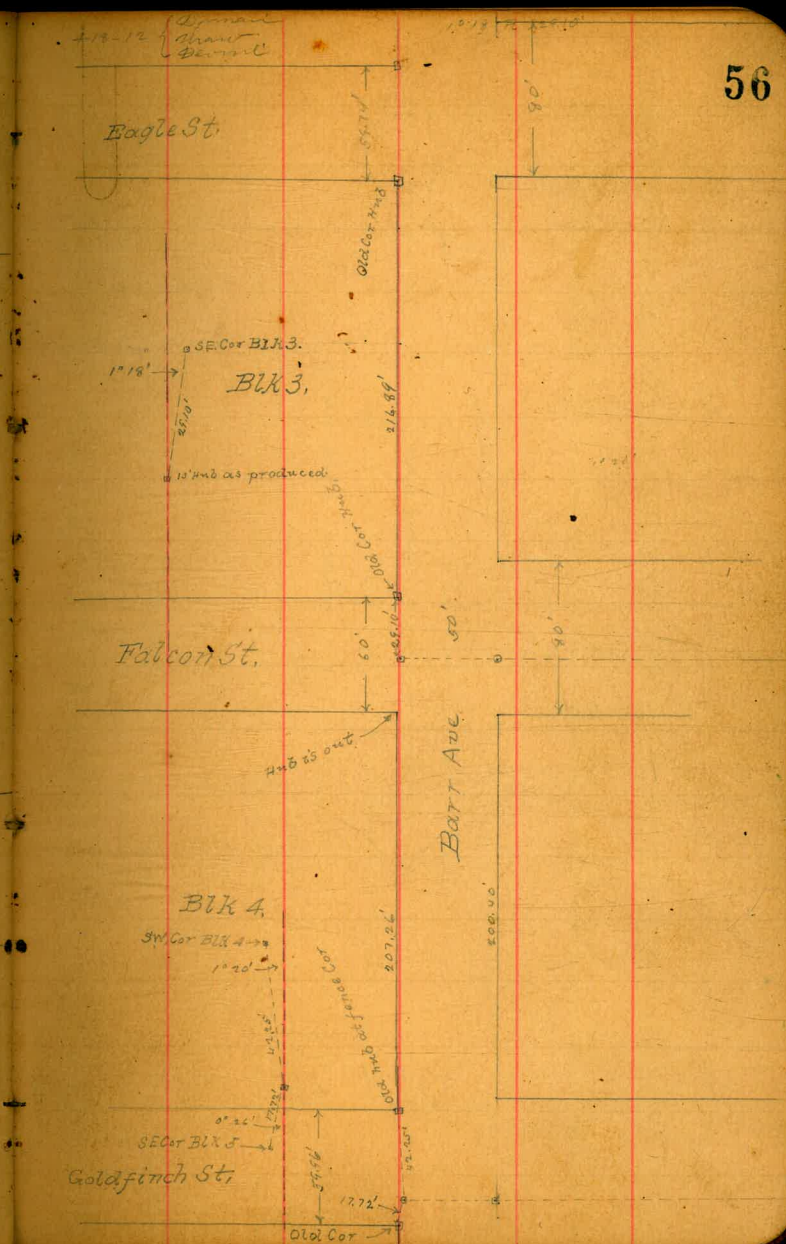

Washington
St
St
Getti
St
Lewis
St
Hooker
Broadway
St
Broadway
St
St
Stockton
St
Hunter
St
Hooker
Bay
St

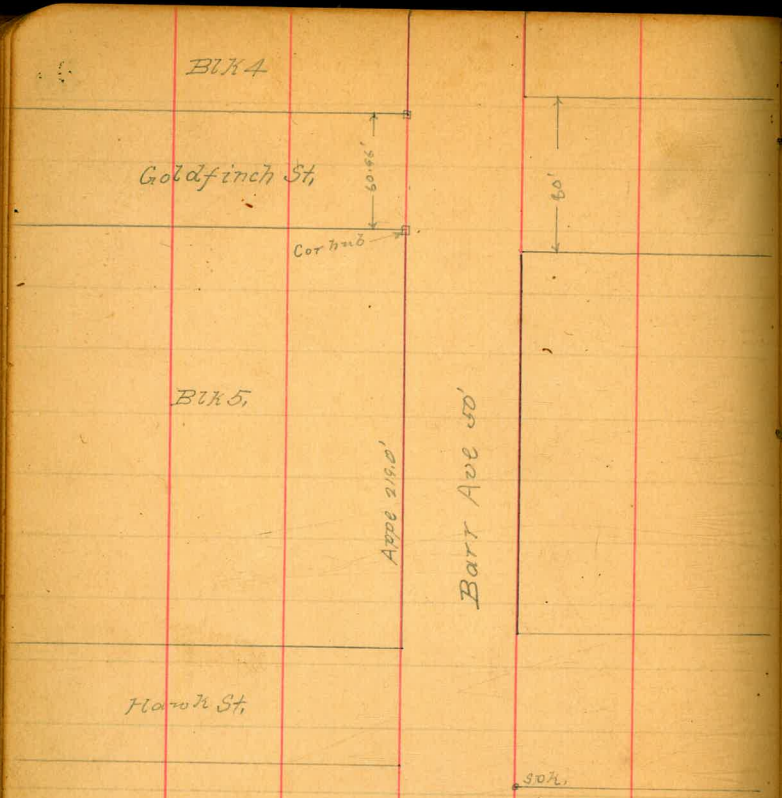

Washington
St
St
Getti
St
Lewis
13
hub
St
Randolph
Broadway
St
Broadway
13
hub
St
St
Stockton
13
hub
St
Hunter
13
hub
St
Randolph
Barr
St.

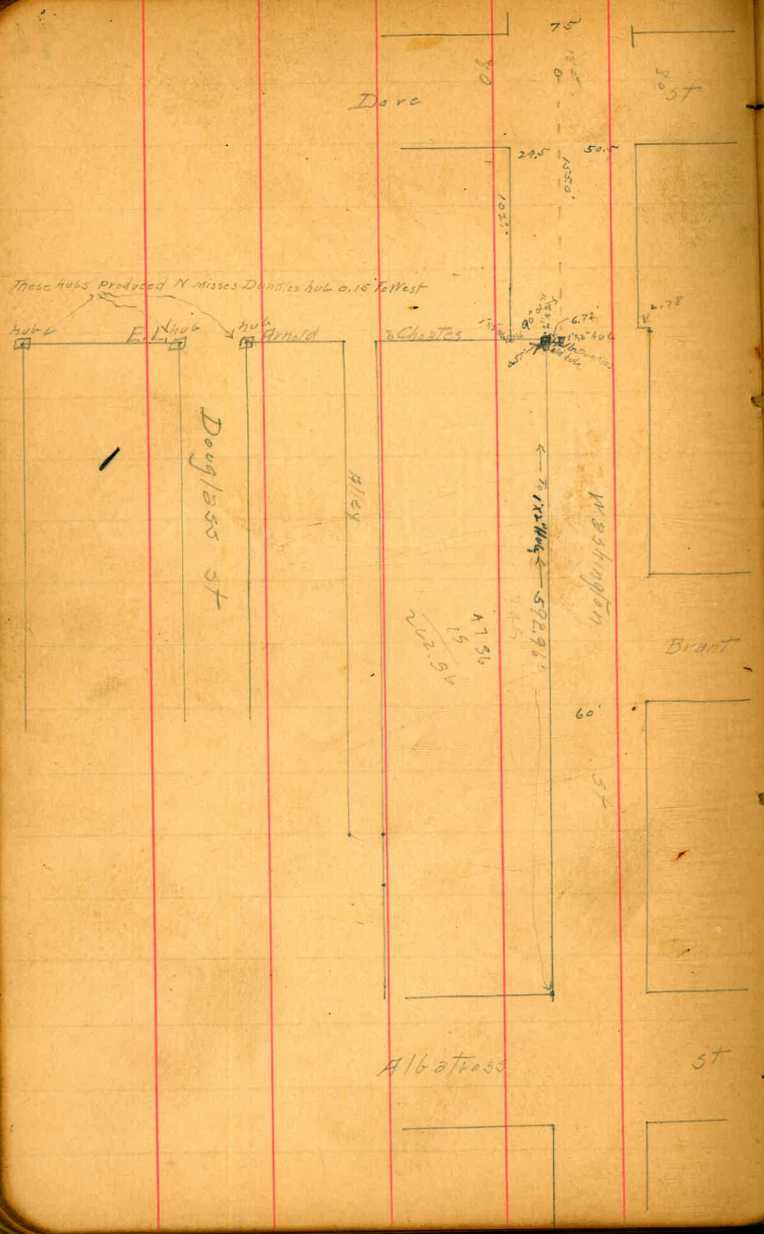

446 Appe.
Hubs North line Barr Ave on 10' line cross streets.
Blk 1
Blk 2
Blk 3
Blk 4
Blk 5
Dove St.
Eagle St.
Falcon St.
Goldfinch St.
Hawk St.
Barr Ave
Sidewalk Sth Copm
Distances on Barr Ave. calculated by use of verth arc
10
9
8
7
6


3-28-12
Dorman
Shaw
Devine
446' Appe.
Old Plug 4' North & 01 E
Set 2"x2" Redwood Plug
2"x2" Redwood Plug, Replacing 3"x3" Post.
Dove St.
Eagle St.
Barr Ave.
Plug
50'
60
80


Blk I
Old Hub
Old Hub
SW Cor Blk 1
New hub production 15' line 50' is .64' North & 1.71' East of old Cor hub.
Dove St.
SW Cor Blk 1
0°50'
New hub noted
Blk 2.
Old Hub
251.80'
Barr Ave 50'
SW Cor Blk 2
0°42'
Eagle St.
0°13'
SE Cor Blk 3
216.89'


Eagle St.
Old Cor Hub
SE Cor Blk 3.
1°18'
Blk 3.
216.89'
15' Hub as produced
Old Cor Hub
Falcon St.
60'
Hub is out
Barr Ave
50'
80'
Blk 4.
SW Cor Blk 4
1°20'
207.26'
Old hub at fence Cor
0°26'
SE Cor Blk 5
Goldfinch St.
17.72'
Old Cor


Blk 4
Goldfinch St,
60.66'
Cor hub
Blk 5,
Appe 219.0'
Barr Ave 50'
60'
Hawk St,
sok,


75'
Dore
St
24.5
50.5
These hubs produced N misses Dunkles hub 0.15 To West
hub
E.L.
hub
hub
Arnold
To Cheates
6.72
Douglass St
Alley
Washington
Brant
60'
Albatross
St

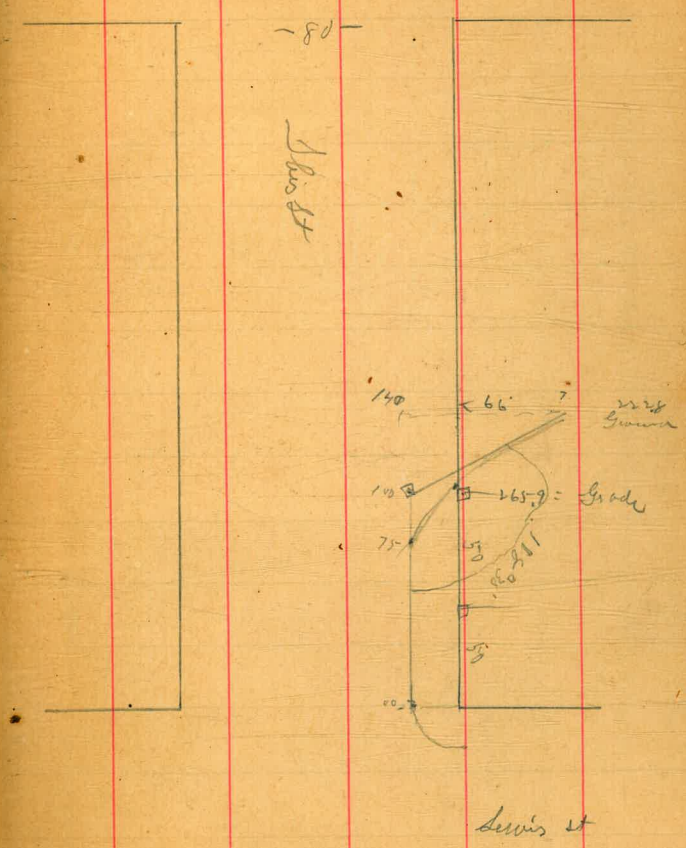
Clough Levels for Culvert N E Cor &
Denman
Bunker Ibis + Lewis St

					Mon SE
				267,22	Ibis + Lewis
	4,70	269,70		265,00	Curb
00 = N E Curb			5,2		
25' n			4,7		
35' n			4,5		
43' n			11,6		
TP	0,34	257,56	12,48	257,22	
75' n = PC			6,7		
104' on Curb = Prop d = 100' n			15,4	242,2	
TP	0,90	245,56	12,90	244,66	
120' n E			9,0		
130' n E			14,0		
TP	1,50	234,06	13,00	232,56	
160' n			9,00		
170' n = 66' E of Ibis			12,00	222,8	

189,54
89,96
179,50

Transferred
See Book 354 P 54

Broadway



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

For Single Track Embankment.

Roadway 14 feet wide. Side Slopes 1½ to 1.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	27
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.