357

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

TRANSIT

398

F.B.357

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.		

MICROMEDIA 1964

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

Crocker Quality

TRANSIT BOOK

No._____

MANUFACTURED BY

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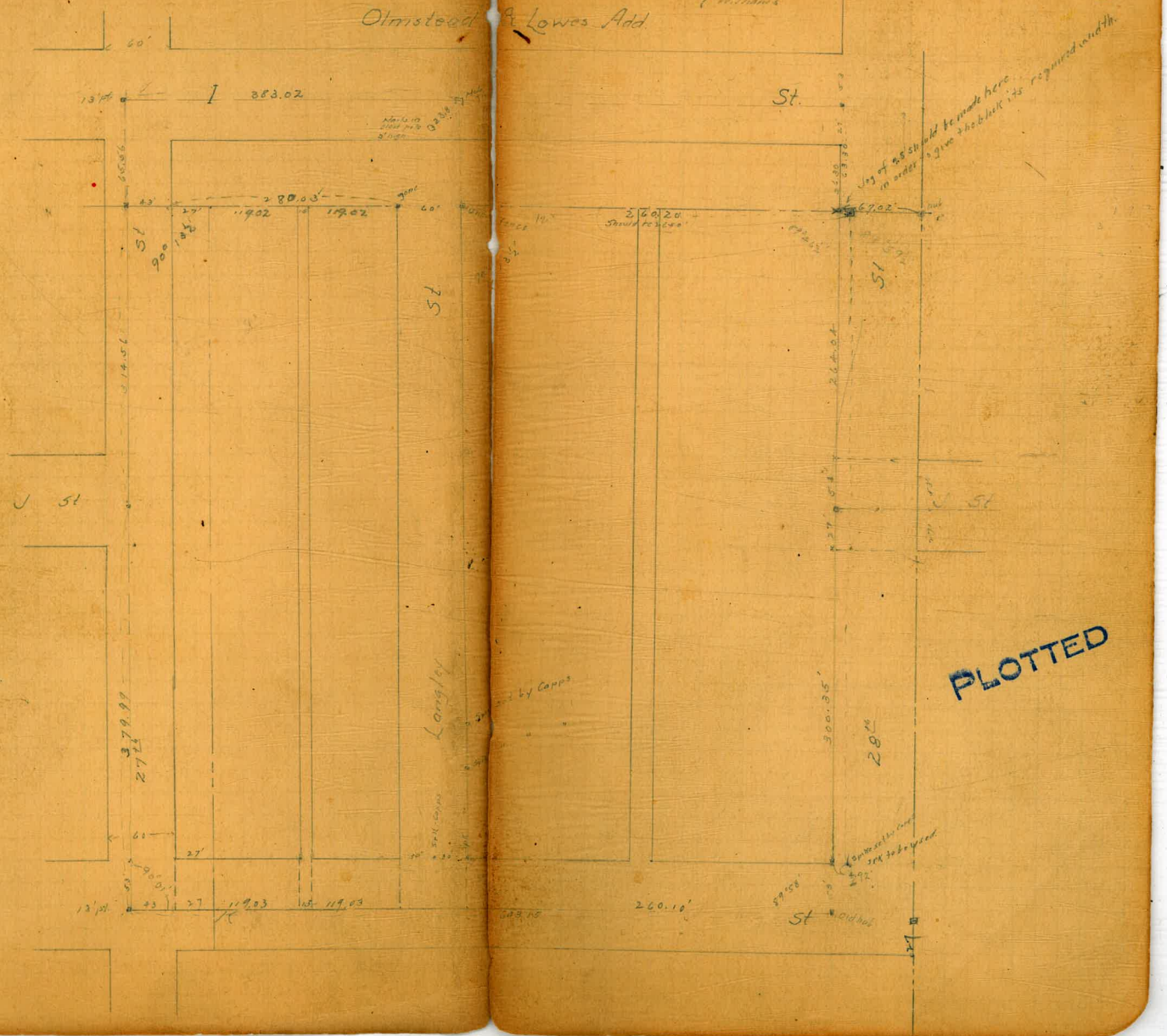
SAN FRANCISCO AND SACRAMENTO
CALIFORNIA

FROM
LORING'S BOOK STORE
SAN DIEGO, CAL.

Survey of

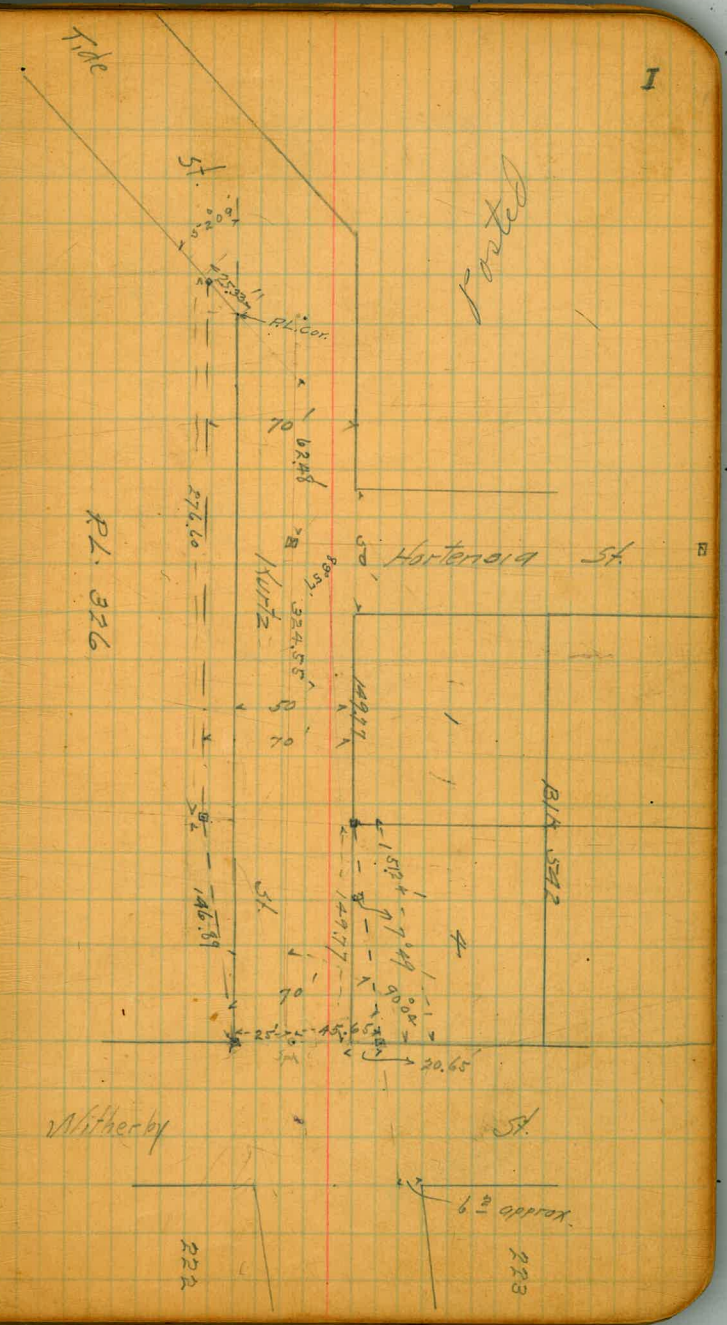
Olmstead & Lowes Add

1

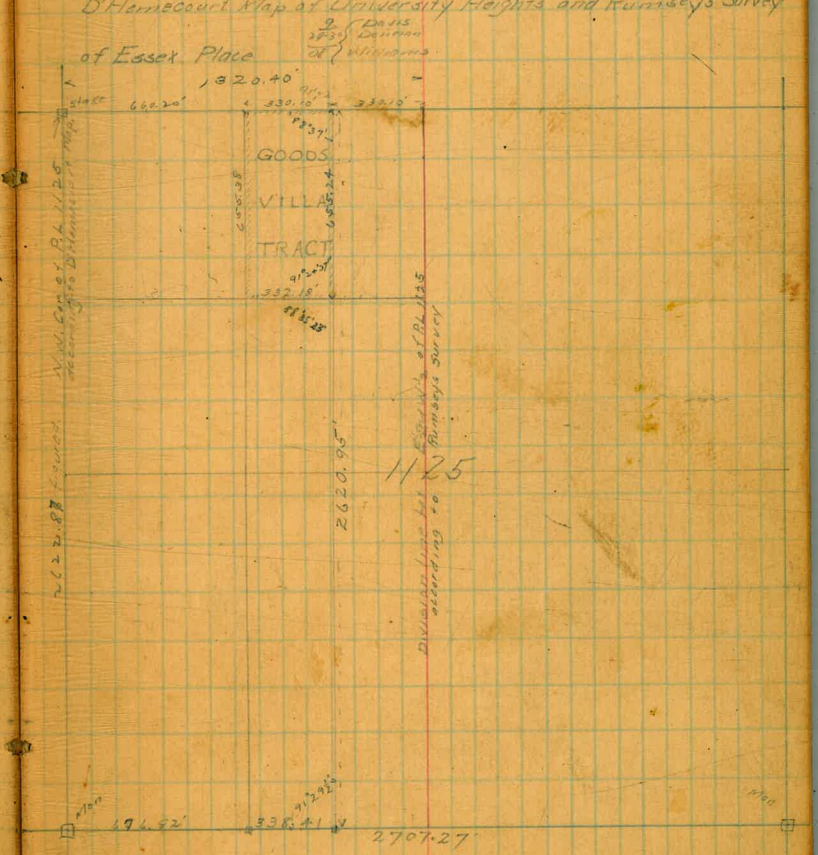


9/21/08
Hatch
Moore
Churchman

Survey of the land to be acquired for the widening of Kurtz St.

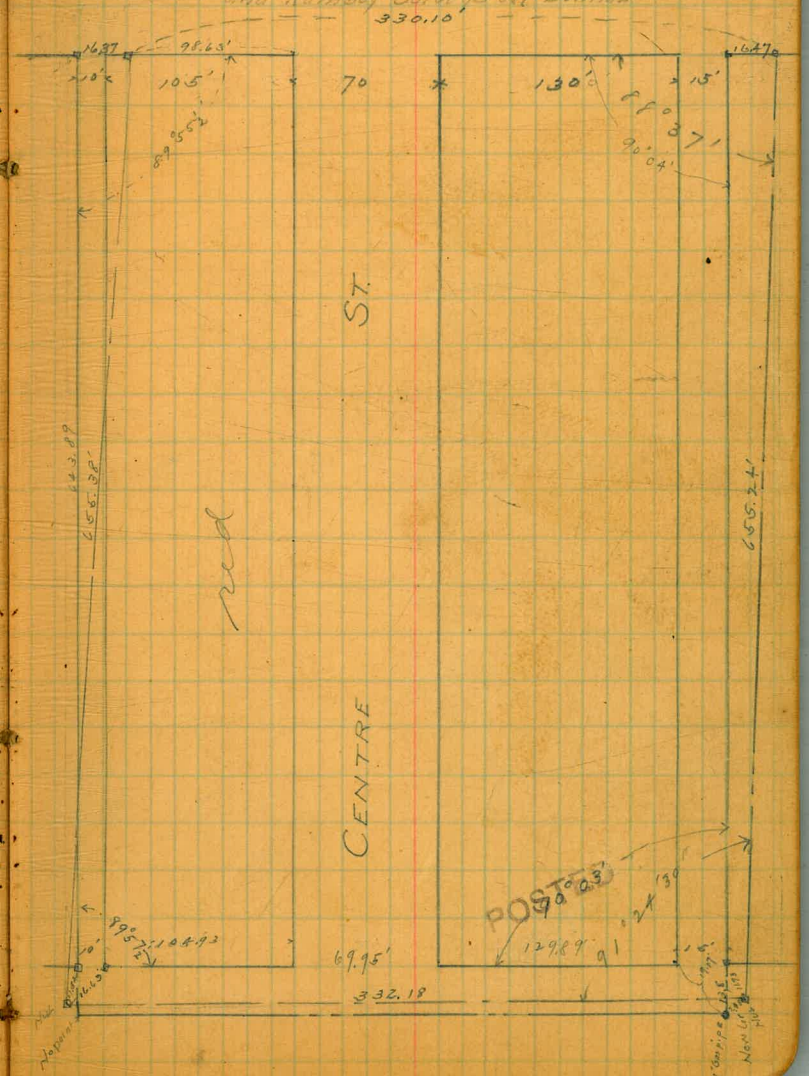


Survey of W½ of N.E¼ of N.W¼ of P.L. 1125 Known as Goods Villa Tract. Survey made according to the D'Hemecourt Map of University Heights and Rumsey's Survey of Essex Place



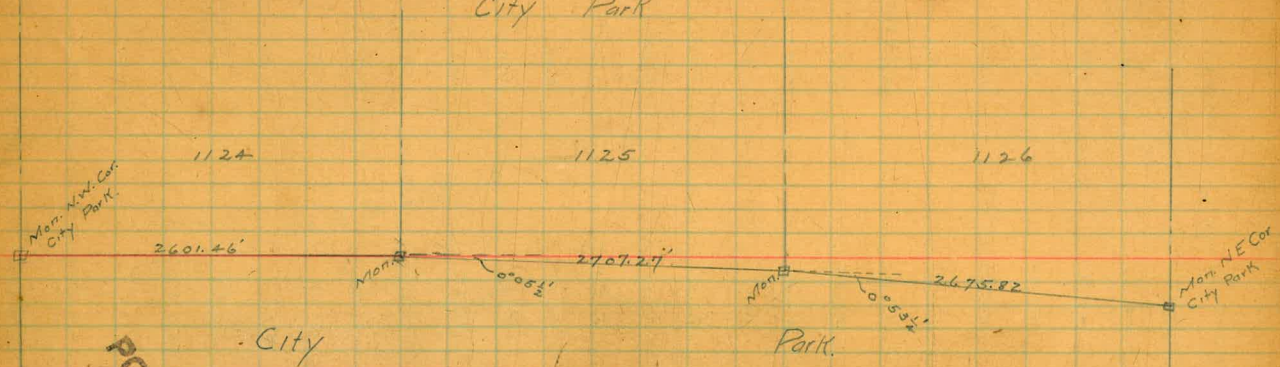
POSTED

Plat showing difference between Survey made by Crowell and Survey made according to d Hemecourt and Rumsey Surveys 68 Davis Williams Donnan



Plot showing measurements of south line of Pueblo Lots 1124-25 and 26 or north line of the City Park

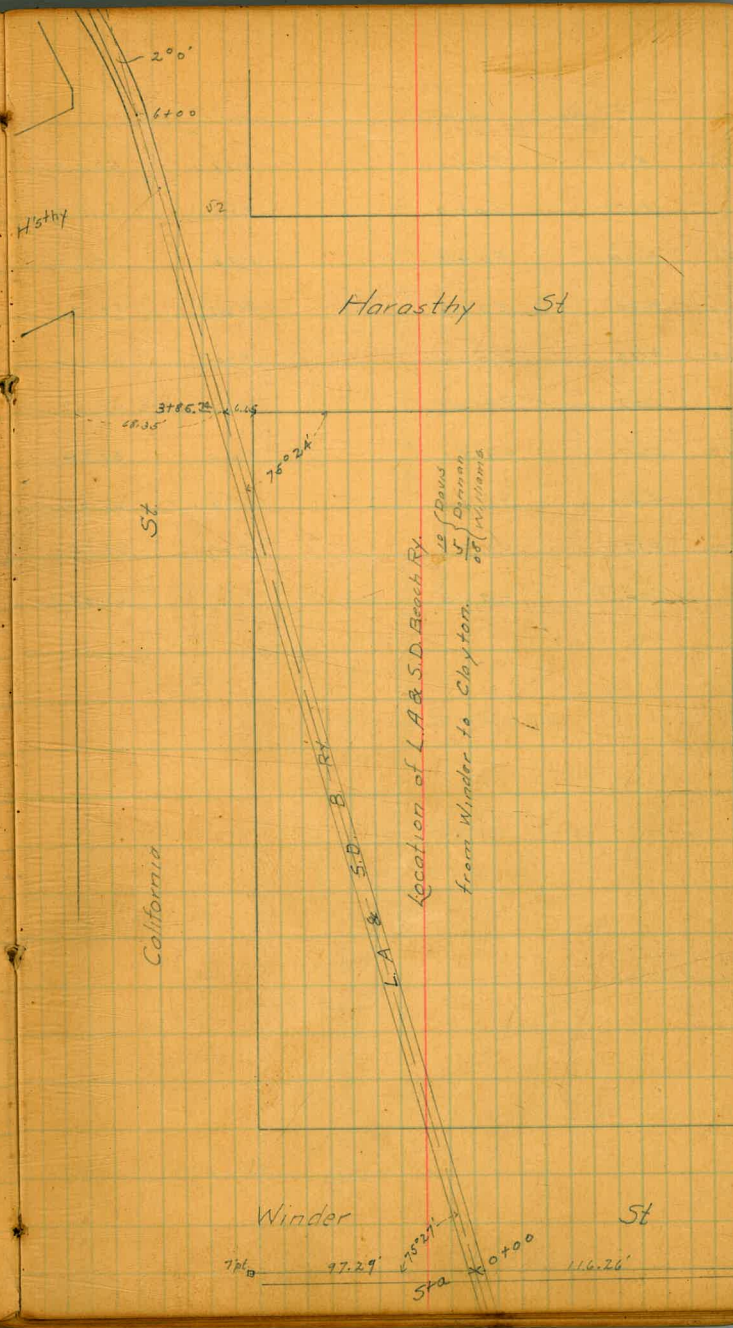
10 Davis
2 Williams
08 Dorman



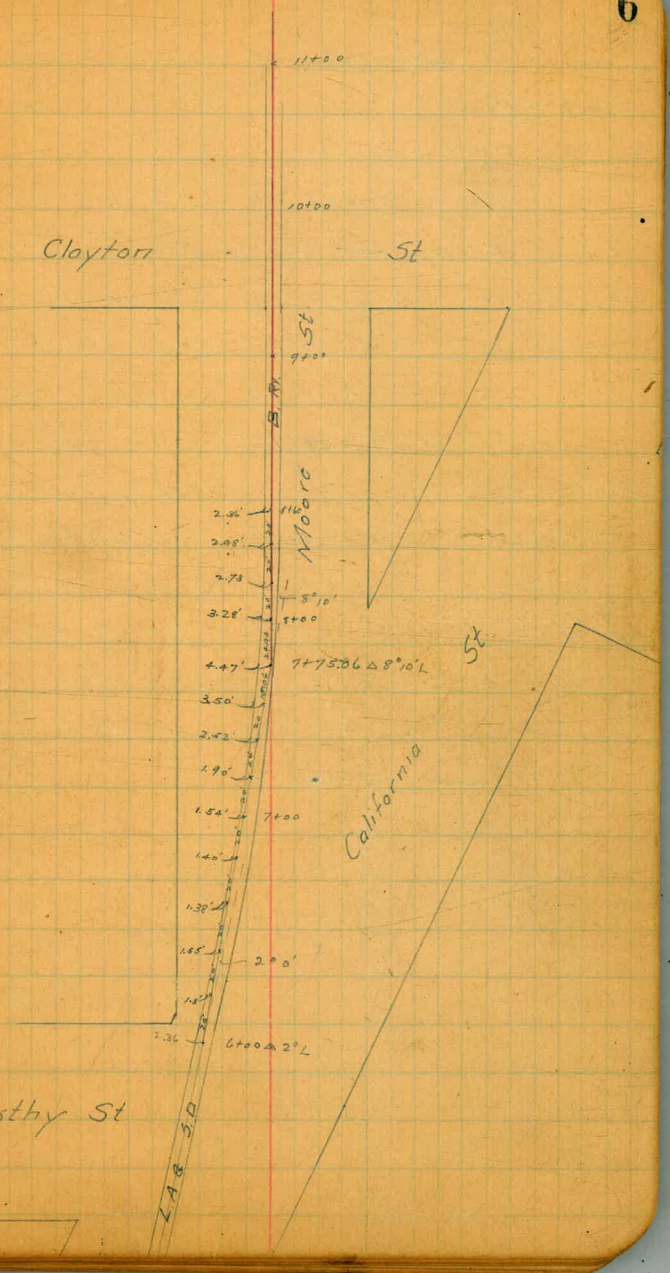
POSTED

Levels over L.A. and S.D. Beach Ry - Winder to Clayton

Sta	E. Rail R.R.	E. Rail Elev		W. Rail R.R.	W. Rail Elev
	3.37	54.61		51.24 - 5.5 Cal. 3rd Hisby Sta path	
0+00 - 5 7 line Wtr.	4.40	50.21		4.40	50.21
+50	3.85	50.76		3.89	50.72
1	3.27	51.34		3.34	51.27
+50	2.89	51.72		2.91	51.70
2	2.60	52.01		2.62	51.99
+50	2.35	52.26		2.37	52.24
3	2.21	52.40		2.24	52.37
+50	2.20	52.41		2.20	52.41
+85 74	2.22	52.39		2.26	52.35
4	2.33	52.28		2.34	52.27
+50	2.66	51.95		2.72	51.89
5	3.05	51.58		3.20	51.41
+50	3.30	51.31		3.52	51.09
6 Δ 2°L	3.47	51.14		3.80	50.81
T.P.	4.33	55.18	3.76	50.85	
+20	4.11	51.07		4.45	51.73
+40	4.15	51.03		4.52	50.66
+60	4.21	50.97		4.53	50.65
+80	4.30	50.88		4.62	50.56
7	4.38	50.80		4.71	50.47
+20	4.41	50.77		4.80	50.38
+40	4.49	50.69		4.87	50.31
+60	4.50	50.68		4.90	50.28



	E. Rail R.R.	H.I. 55.18 Elev.	W. Rail R.R.	Elev
7+75.06	4.57	50.61	4.89	50.29
8	4.58	50.60	4.85	50.33
+20	4.69	50.49	4.92	50.26
+40	4.80	50.38	4.97	50.21
+60	4.92	50.26	5.04	50.14
9	5.09	50.09	5.16	50.02
+50	5.27	49.91	5.24	49.94
10	5.50	49.68	5.49	49.69
+50	5.77	49.41	5.83	49.35
11	6.05	49.13	6.10	49.08



Description

Mary Mott Day
to
George L. Good.

That portion of the N.E ¼ of the N.W ¼ of P.L. 1125, in said City of San Diego, described as follows; Commencing at a point on the north boundary line of said Pueblo Lot; 40 rods east of the N.W. cor. thereof, thence east along said No. boundary line to a point 20 rods west from the N.E. Cor of the N.W ¼ of said Pueblo Lot; thence south 40 rods to a point 20 rods west of E. line of said N.W ¼ thence west to a point 40 rods E of W line and 40 rods so of No. line of said N.W ¼ thence north to point of commencement.

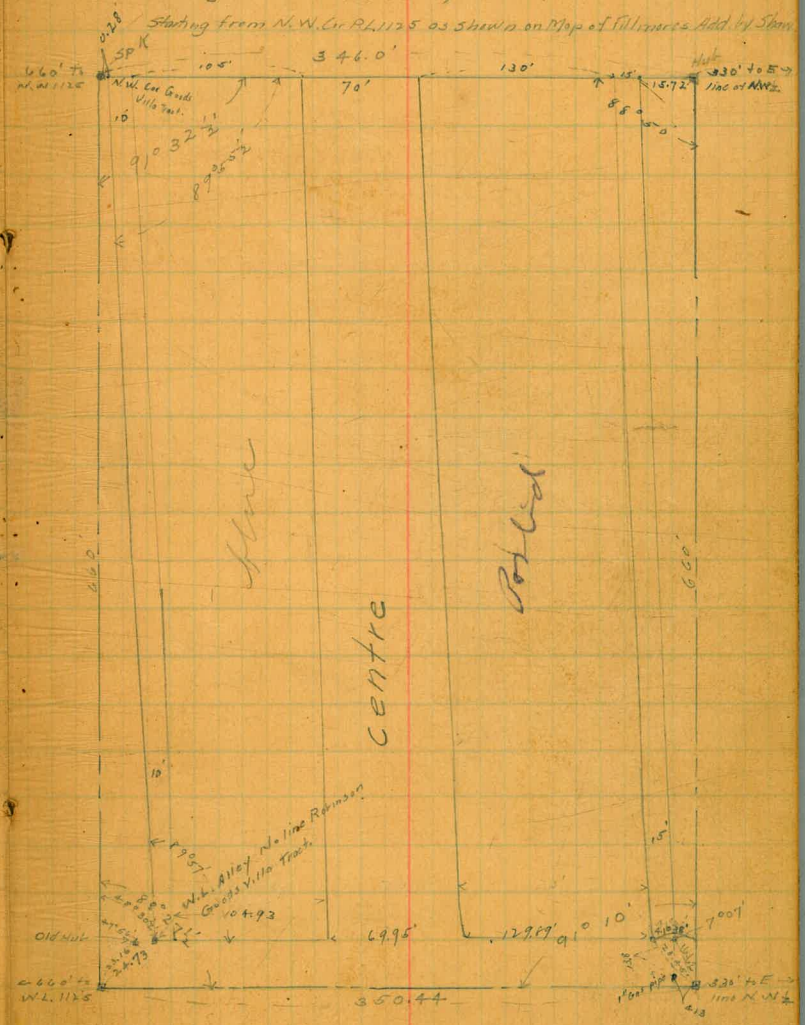
10 } Davis
13 } Donnan
08 } Williams

7

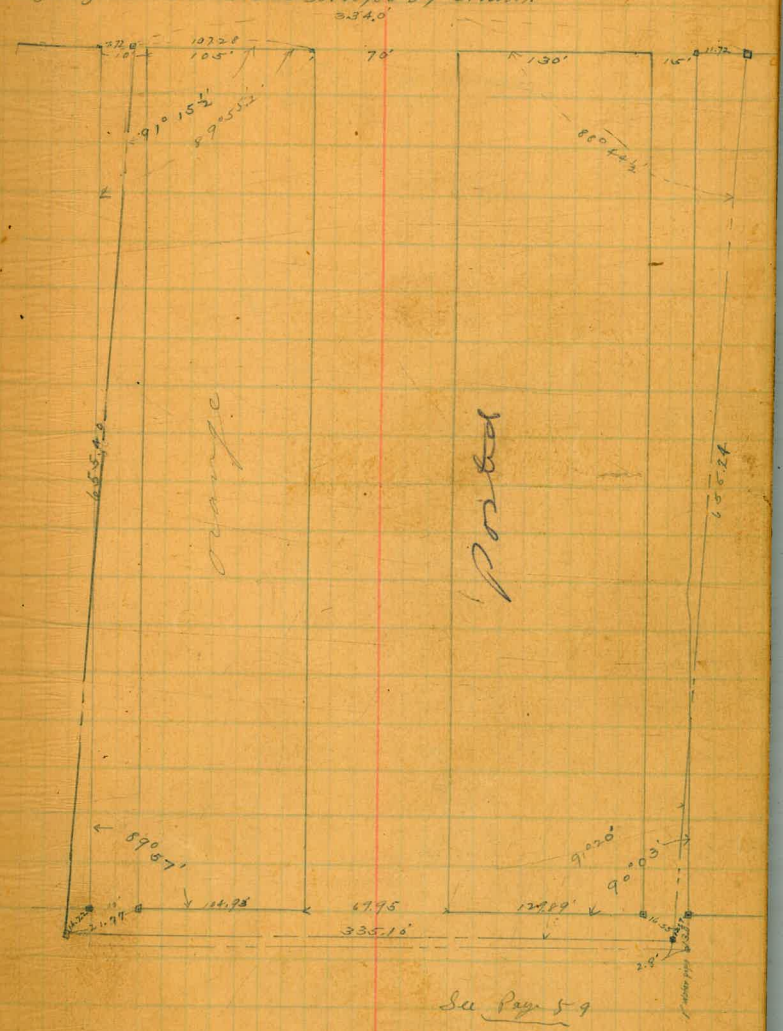
Survey according to Description.

Giving ties to corners set by Crowell.

Starting from N.W. Cor P.L. 1125 as shown on Map of Fillmores Add. by Shaw



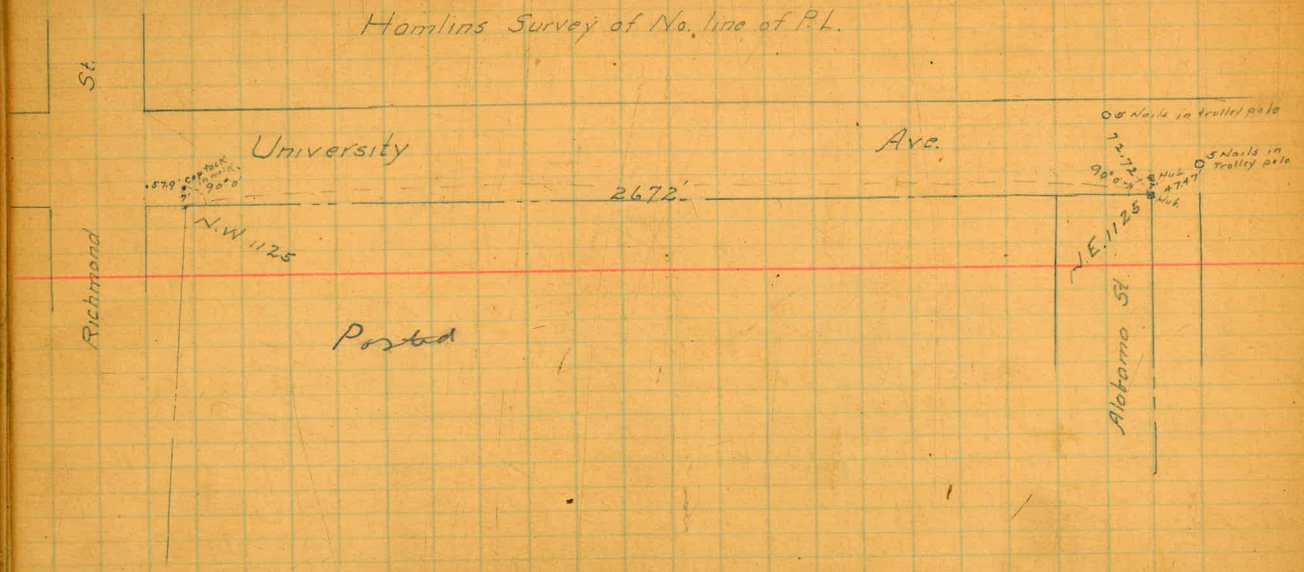
Survey of Goods Villa Tract Starting from N.W. Cor P.L. 1126 as shown on Map of Fillmores Add. Surveyed by T. Shaw. Giving each property owner their proportion of the Pueblo. and giving ties to corners as surveyed by Crowell.

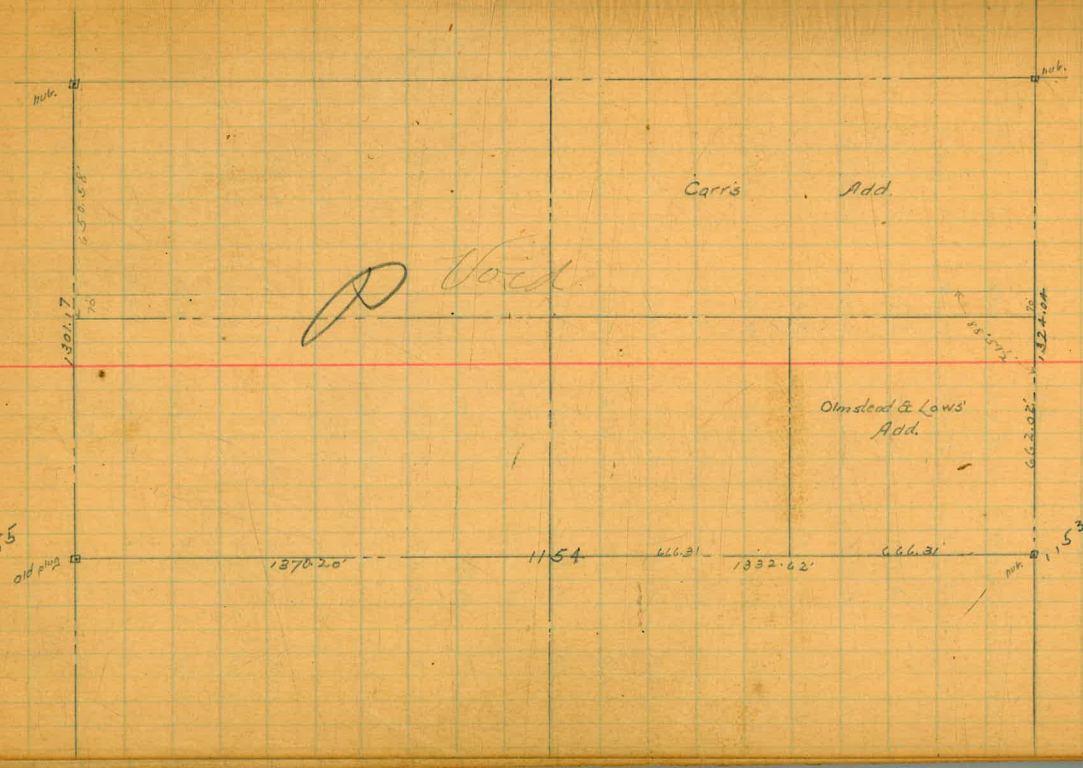


See Page 59

N.W. and N.E. Cors. P.L. 1125 Set according to Hamlins Survey of No. line of P.L.

10 / 19 / 08 { Davis / Donovan / Williams




nub.
nub.
650.58'
Carr's Add.
Void
1301.17
70
70
1324.04
Olmstead & Lows' Add.
662.02'
1155
old plug
1370.20'
1154
666.31
1332.62'
666.31'
nub.
1153

Cut Stakes for 7th St Storm drain from "L" to bay

10/27/18 { Davis, Dennan, Williams

Sta	Rod R.	Ground	Grade	I
0+00 N.L."L"	3.00	4.91	2.08	+ 2.83
+25	2.30	5.61	1.80	+ 3.81
+50	2.58	5.33	1.53	+ 3.80
+75	2.84	5.07	1.25	+ 3.82
1	3.94	3.97	0.97	+ 3.00
+25	3.87	4.04	0.70	+ 3.34
+50	4.57	3.34	0.42	+ 2.92
+75	4.52	3.39	0.15	+ 3.24
2	5.24	2.67	-0.13	+ 2.80
+25	5.27	2.64	-0.41	+ 3.05
+50	6.05	1.86	-0.68	+ 2.54
+75	5.52	2.39	-0.96	+ 3.35
3	5.47	2.44	-1.24	+ 3.68
+25	5.92	1.99	-1.51	+ 3.50
+50	6.32	1.59	-1.79	+ 3.38
+75	6.95	0.96	-2.07	+ 3.03
4	6.77	1.14	-2.34	+ 3.48
+25	6.28	1.63	-2.62	+ 4.25
+50	5.60	2.31	-2.89	+ 5.20
+75	6.24	1.67	-3.17	+ 4.84
5	6.68	1.23	-3.45	+ 4.68
+25	6.76	1.16	-3.72	+ 4.88
+50	12.22	-4.31	-4.00	-0.31

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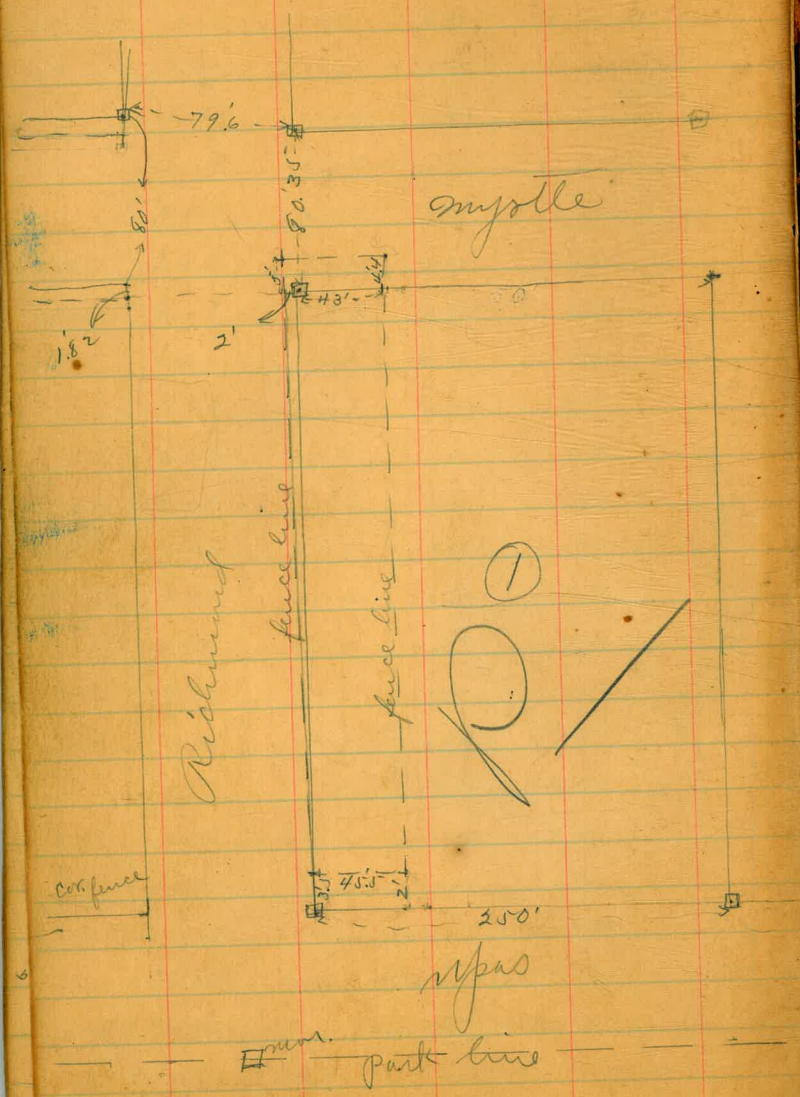
6.67 BM NE 7 & L
Spk p.10

1.24	7.91		

231
368
599 HI

4.33	1.66	-3.17	+ 4.83
4.75	1.24	-3.45	+ 4.69
4.67	1.32	-3.72	+ 5.04
10.27	-4.28	-4.00	-0.28

Survey of Blk. 1

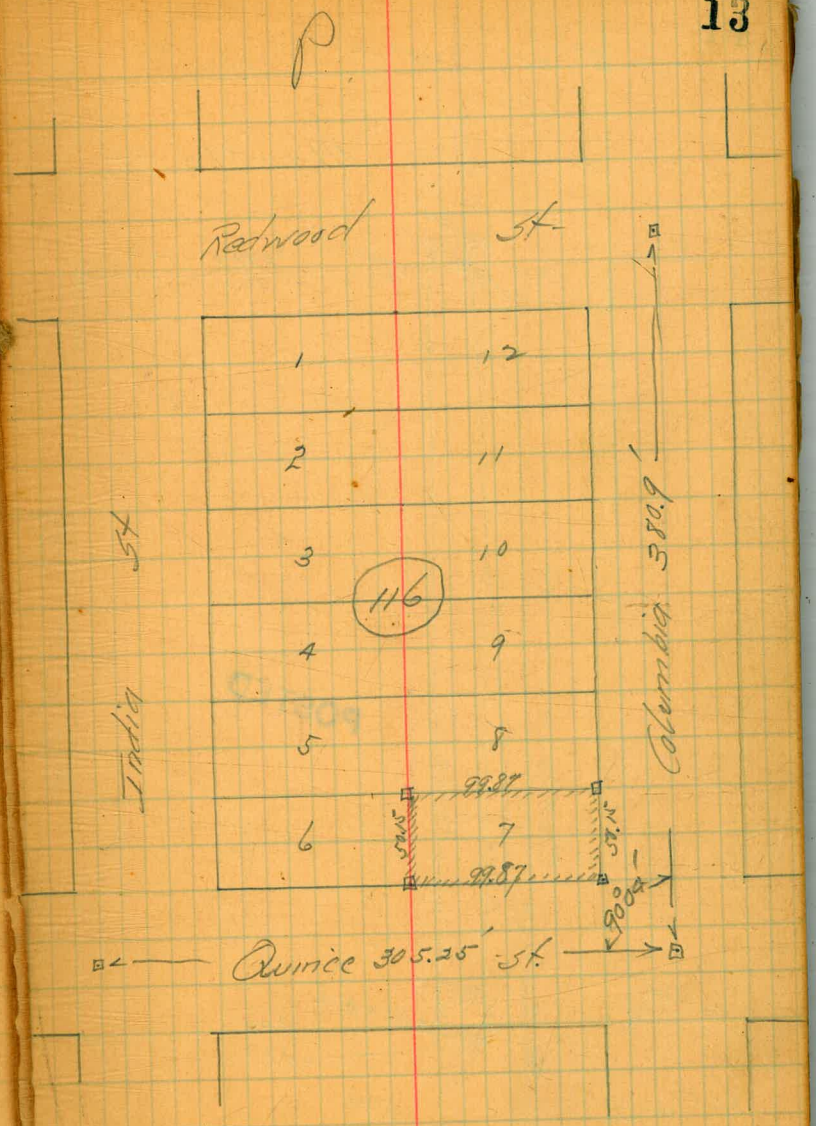


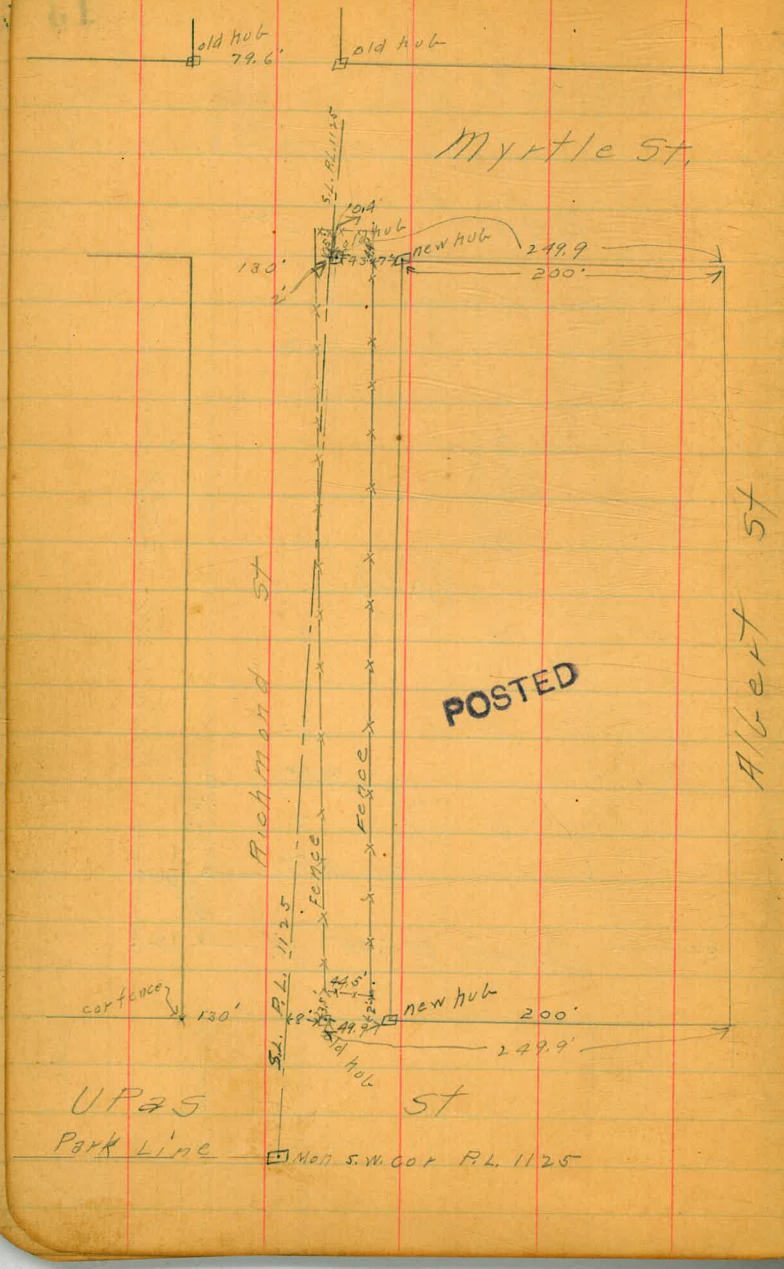
Nov. 14/08 { Childs
Barber
Rogers

11/16/08 Hatch
Moore
Dezel

Survey of Lot 7 Blk. 116
Middletown

Posted

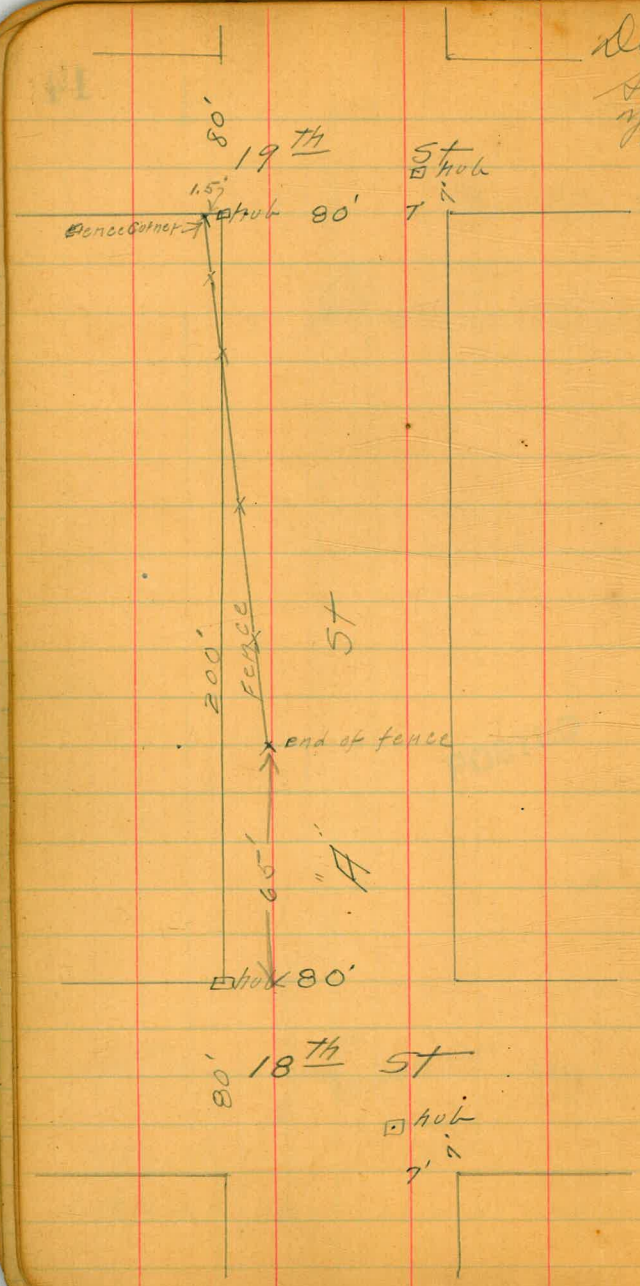




POSTED

11/23/08 Dunkle
Shaw
Thomas

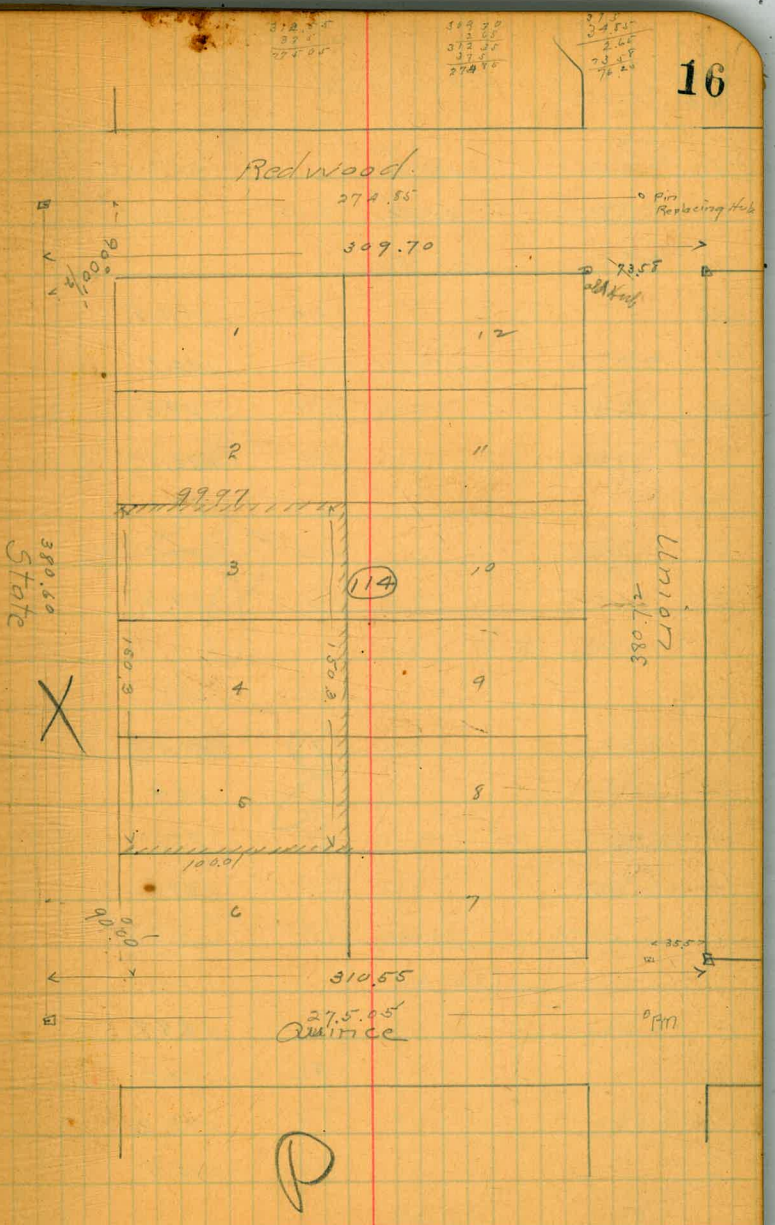
Dunkin
Shaw
Thomas



12 Hatch
17 Moore
08 Dezul

Survey of Lots 3,4,5, Blk 114
Middletown Add

Line on State determined by Cr. Hubs on Palm and Spruce. Checked on Sassafrass.
Line on Redwood determined by Cr Hubs on India, Columbia and Horton Ave.
Line on Quince, by Cr Hub on Columbia and Blk Cor. [illegible] Union. checked on India
Union St taken as shown by Hubs on Blk Cors on Quince and Redwood



12/21/88 Hatch / Section 3rd St.
Mowl / from Ivy to Laurel
Tozier

NW 3rd & Ivy					
BM	288	198.85		195.955	
T.P.	225	191.94	9.14	189.69	
		N.L. Ivy			
W			1.4	190.5	
cb			1.2	190.7	
1/4			2.7	189.2	
C			3.4	188.5	
1/4			4.0	187.0	
cb			4.2	187.7	
E			4.9	187.0	
	7' N				
E			10.4	181.5	
cb			8.0	183.3	
1/4			7.0	184.4	
C			6.7	185.2	
1/4			2.0	189.5	
T.P.	8.57	179.64	12.87	179.07	
		25' N			
E			10.8	168.8	
cb			9.6	170.0	
1/4			7.4	172.2	
C			1.7	176.9	
		32' N			
E	1625/39.5		15.1	164.5	163.5 foot chart opening

	179.64			189.6
cb		13.2		166.4
1/4		8.4		171.2
C		1.2		178.4
	50' N			
E 1/4		5.2		174.4
cb		11.7		191.0 167.9
E	1618/15 1610/35 1629/42.2 Tue	15.7		163.9 1629
	75' N			
E	1644/35 1617/40 1613/47.5 Tue	11.5		198.2 168.1
cb		6.4		173.2
1/4		0.4		179.2
	100' N			
E	1718/20 1642/20 1620/49.5 Tue	4.4		195.3 175.2
cb		0.3		179.3
T.P. - 12.15	191.64	0.15		179.49
1/4		6.3		185.20
C		+0.6		192.2
	75' N			
C		5.1		186.5
	50' N			
C		9.0		182.6
	32' N			
W 1/4		5.5		186.1
	25' N	5.1		186.5
W 1/4				

		191.64		
		125' N		
E	182.7/15 167.5/40 163.3/51 tae		7.1	197.3 184.5 (12.8)
cb			4.7	186.9
1/4			0.3	191.3
		150' N		
E	185.0/20 183.0/24 tae		1.7	199.0 189.9 (9.1)
T.P.	1291	204.23	0.32	191.32
cb.			11.2	193.0
1/4			7.8	196.4
c			3.7	200.5
1/4			2.8	201.4
		125' N		
W 1/4			4.2	200.0
c			6.9	197.3
		100' N		
W 1/4			4.6	199.6
cb.			3.2	202.0
+7			1.8	202.4
W			+0.6	204.8
		75' N		
W 1/4			7.5	196.7
cb.			4.3	199.9
+8			3.8	200.4
W			1.4	202.8

	204.23		
	50' N		
W 1/4		11.9	192.3
cb		7.0	197.2
+7		5.8	198.4
W		2.6	201.6
	25' N		
W cb		8.6	195.6
+7		7.8	196.4
W		4.3	199.9
	7' N		
W		7.0	197.2
+7		10.5	193.7
cb		10.7	193.5
	175' N		
E	191.5/15 tae	10.4	201.3 193.8 (7.5)
cb		8.4	195.8
1/4		5.1	199.1
c		3.5	200.7
1/4		0.6	203.6
	200' N		
c		0.2	204.0
1/4		2.5	201.7
cb		5.0	199.2
E	195.1/12.3 tae	7.6	203.3 196.6 (6.7)

		204.23		
		225' N		
E	198.7/10 toe		4.0	200.2 (5.1) 205.3
cb			1.6	203.6
1/4			+0.5	204.7
		250' N		
E	201.6/8.5		1.2	203.0 (4.3) 207.3
T.P.	11.56	215.61	0.18	204.05
cb			10.1	205.5
1/4			8.3	207.3
c			6.5	209.1
1/4			5.5	210.1
cb			2.7	212.9
W			1.7	213.9
		225' N		
W			2.0	213.6
+4			2.9	212.7
cb			3.5	212.1
1/4			6.4	209.2
c			9.0	206.6
		200' N		
W 1/4			8.2	207.4
cb			4.9	210.7
+12			4.7	210.9
W			3.7	211.9

		215.61		
		175' N		
W			5.4	210.2
+4			6.4	209.2
cb			7.1	208.5
		150' N		
W			8.3	207.3
cb			9.2	206.9
		125' N		
W			{10.9 / 9.0	204.7 / 206.6
cb			11.3	203.6
		275' N		
W			0.9	214.7
cb			2.5	213.1
1/4			4.1	211.5
c			5.2	210.4
1/4			6.5	209.1
cb			8.1	207.5
E	204.3/7.5 toe		9.9	205.7 (3.6) 209.3
		300' N = St. Juniper		
E	205.6/8.5 toe		8.4	207.2 (4.1) 211.3
cb			6.2	209.4
1/4			5.3	210.3
c			4.1	211.5
1/4			2.8	212.8

215.61

cb	1.4	214.2
W	0.6	215.0

S cb. Juniper

T.P 6.05	220.73	0.96	214.65
W	4.8	215.9
cb	6.2	214.5
1/4	7.4	213.3
C	8.4	212.3
1/4	9.6	211.1
cb	11.4	209.3
E 198.0/19.5 Toe	14.1	210.0 206.6 (4.4)

S 1/4

E 195.0/25.3 Toe	13.8	210.9 206.9 (4.0)
cb	11.0	209.7
1/4	9.0	211.7
C	7.9	212.8
1/4	6.8	213.9
cb	5.8	214.9
W	4.1	216.6

Cr.

W	3.6	217.1
cb	5.5	215.2
1/4	6.8	213.8
C	8.0	212.7

220.73

1/4	9.3	211.4
cb	10.6	210.1
E 202.5/18	12.2	211.5 208.5 (3.0)

N 1/4

E 186.2/27.8	14.0	211.2 206.7 (4.7)
cb	10.0	210.7
1/4	8.2	212.5
C	6.7	214.0
1/4	5.7	215.0
cb	4.5	216.2
W	3.2	217.5

N cb. Juniper

W	3.0	217.7
cb	3.9	216.8
1/4	4.5	216.2
C	6.0	214.7
1/4	7.6	213.1
T.P.	8.8	211.9
cb	9.3	211.4

NL

cb	9.2	211.5
1/4	7.0	213.7
C	5.5	215.2
1/4	4.3	216.4

220.73

cb	3.3	217.4
W	2.4	218.3
25' N		
W	1.8	218.9
cb	2.6	218.1
1/4	3.7	217.0
c	4.7	216.0
1/4	6.5	214.2
cb	10.3	210.4
50' N		
E 1/4	11.2	209.5
c	6.4	214.3
1/4	4.8	215.9
cb	3.3	217.4
W	1.4	219.3
75' N		
W	1.3	219.4
cb	3.3	217.4
1/4	5.5	215.2
c	7.9	212.8
1/4	10.4	210.3
100' N		
E 207.2/10 200.6/22.5	11.2	2156 209.5 (6.1)
cb	9.4	211.3

220.73

1/4	7.9	212.8
c	6.4	214.3
1/4	4.5	215.9
cb	3.2	217.2
W	1.0	219.7
125' N		
W	1.0	219.7
cb	2.6	218.1
1/4	4.5	216.2
c	7.4	213.3
1/4	8.5	212.2
cb	10.2	210.5
TP 364	21.1 19.0 12.47	208.26
E 203.8/12.0 196.0/25 85.0/A7	4.2	3164 207.7 (8.3)
75' N		
E 188.2/A0	9.0	3148 202.9 (11.9)
cb	5.4	206.5
50' N		
E 184.8/43.8 Tree	10.5	3140 201.4 (12.6)
cb	5.7	206.2
25' N		
E 195.7/15 183.1/A5 Tree	7.2	3131 204.7 (5.4)
NL Juniper		
E 180.6/47.5 Tree	7.9	3123 204.0 (7.3)

211.90

N cb Juniper

E	183.0 / 43.5 tae		9.2	212 / 202.7 (9.3)

155 N of Juniper

E	193.3 / 15	183.4 / 51 tae	16.1	217.4 / 195.8 (21.6)
cb,			12.2	199.7
1/4			9.4	202.5
c			4.8	207.1

175' N

E	186.3 / 27	185.3 / 49 tae	17.5	218.0 / 194.4 (23.6)
cb.			12.2	199.7
1/4			9.2	202.7
c			5.4	206.5

200' N

E	191.7 / 15	187.0 / 30	187.4 / 47	13.5	218.9 / 198.4 (20.5)
cb				6.7	205.2
1/4				0.4	211.5

225' N

E	194.7 / 20	187.4 / 40	188.4 / 47	8.6	219.7 / 203.3 (16.4)
cb				0.5	211.4

250' N

E	191.1 / 35	190.4 / 45.3 tae	3.3	220.6 / 208.6 (12.0)
T.P.	13.08	224.31	0.67	211.23
cb			9.2	215.10

224.31

1/4	2.8	221.5
c	2.0	222.3
1/4	1.4	222.9
cb	2.1	221.2
W	0.5	223.8

225' N

E 1/4	4.2	220.1
c	2.5	221.8
1/4	2.3	222.0
cb	2.6	221.7
W	1.6	222.7

200' N

W	0.9	223.4
+5	2.8	221.5
cb	3.4	220.9
1/4	4.3	220.0
c	7.5	216.8

175' N

W	1.5	222.8
+5	4.0	220.3
cb	4.6	219.7
1/4	11.2	213.1

224.31

155 N. of Juniper

W	4.5	219.8
cb	4.7	219.6
1/4	10.7	213.6

275' N

W	0.0	224.3
cb.	1.0	223.3
1/4	0.1	224.2
c	1.2	223.1
1/4	2.0	222.3
cb	1.7	222.6
+6	5.5	218.8
E 203.4/15 202.2/29 toe	10.8	213.5 (221.4) (7.9)

290' N

E 222.0/11	9.6	214.7 (221.9) (7.2)
cb.	1.4	222.9
1/4	0.9	223.4
c	1.1	223.2
1/4	0.3	224.0
cb	0.2	224.1
W	+0.4	224.7

224.31

300' N = SL Kalmia

W	0.1	224.2
cb	1.3	223.0
1/4	1.5	222.8
c	2.0	222.3
1/4	2.4	221.9
cb	2.1	222.2
E	2.2	222.1
T.P. 6.60 228.81	2.10	222.21

NL Kalmia

W	1.8	227.0
cb	2.4	226.4
1/4	4.3	224.5
c	4.6	224.2
1/4	5.7	223.1
cb	5.3	223.5
E	4.7	224.1

5' N of Kalmia

E	7.9	220.9
cb	6.9	221.9
1/4	6.4	222.4
+5	4.2	224.6
c	3.5	225.3
1/4	2.9	225.9
cb	2.2	226.6
W	0.7	228.1

228.51

25' N of Kalmia

W	0.2	228.6
cb.	1.8	227.0
1/4	2.0	226.8
C	1.9	226.9
1/4	11.8	217.0
+5	14.0	214.8
cb.	11.8	213.0
E	7.7	221.1

50' N.

E	8.0	220.8
cb.	13.1	215.7
+6	13.7	215.1
1/4	11.0	217.8
C	4.1	224.7
+6	1.8	227.0
1/4	1.5	227.3
cb.	1.3	227.5
W	+0.6	229.4

75' N

W	+2.6	231.4
+4	+0.4	229.2
cb.	1.2	227.6
1/4	1.3	227.5

228.81

C	0.3	228.5
1/4	6.4	222.4
cb	13.0	215.8
E	5.7	223.1

100' N

E	4.9	223.9
cb.	12.0	216.8
1/4	9.4	219.4
C	1.4	227.4
T.P. 7.82 235.94	0.69	228.75
+6	6.9	229.0
1/4	7.1	228.8
cb	7.3	228.6
W	6.8 5.2	229.1 230.7

125' N

W	6.4	229.5
cb	6.2	229.7
1/4	6.5	229.4
C	6.8	229.1
+7	6.2	229.7
1/4	8.6	227.3
cb	14.2	221.7
+4	15.9	220.0
	11.0	224.9

23594

150 N of Kalnica

E	6,1	229.8
cb	6.3	229.6
1/a	6.2	229.7
c	6,1	229.8
1/a	5.7	230.2
cb	5.3	230.6
W	4.9	231.0

175 N

W	3.6	232.3
cb	4.2	231.7
1/a	5.1	230.8
c	4.9	231.0
1/a	5.1	230.8
cb	5.5	230.4
E	4.6	231.3

200 N

E	3.8	232.1
cb	4.3 4.9	231.6 231.0
1/4	4.0	231.9
c	3.8 4.5	232.1 231.4
1/a	3.9	232.0
cb	3.8	232.1
W	3.1	232.8

23594

225 N

W	2.2	233.7
cb	2.8	233.1
1/a	3.5	232.4
c	3.5 3.0	232.4 232.9
1/4	3.4	232.5
cb	3.8 2.9	232.1 233.0
E	2.6	233.3

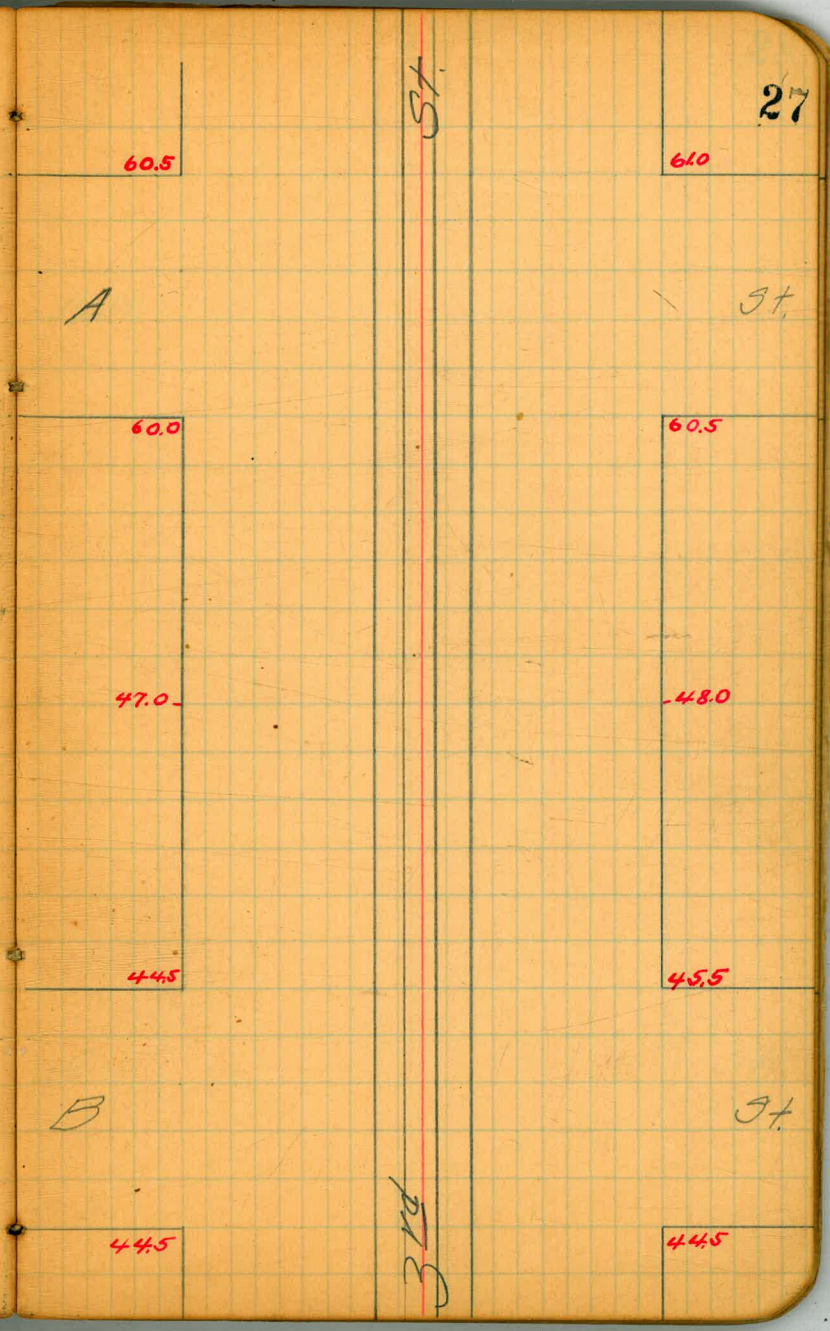
250 N

E	1.5	234.4
cb	1.5 2.9	234.1 233.0
1/a	2.1	233.8
c	1.8 1.5	234.1 233.4
1/a	2.2	233.7
cb	2.2	233.7
W	1.3	234.6

275 N

W	0.6	235.3
cb	0.8	235.1
1/4	1.2	234.7
c	1.3 0.8	234.6 235.1
1/a	1.2	234.7
cb	1.7 0.8	234.2 235.1
E	0.5	235.4

		23594			
TP	5.90	241,38	0.46	235.48	
E			4.9	236.5	
cb			5.4 6.4	236.0 235.0	
1/4			5.6	235.8	
e			5.2 5.8	236.2 235.6	
1/4			5.8	235.6	
cb			5.9	235.5	
W			5.0	236.4	
BM Laurel-3d			4.74	236.64	23662


60.5
A
60.0
47.0
44.5
B
44.5
St.
3rd
61.0
St.
60.5
48.0
45.5
St.
44.5

72.0

Ash

70.5

60.5

A

3rd St.

73.5

St.

71.5

61.0

St.

88.0

Beech

86.5

72.0

Ash

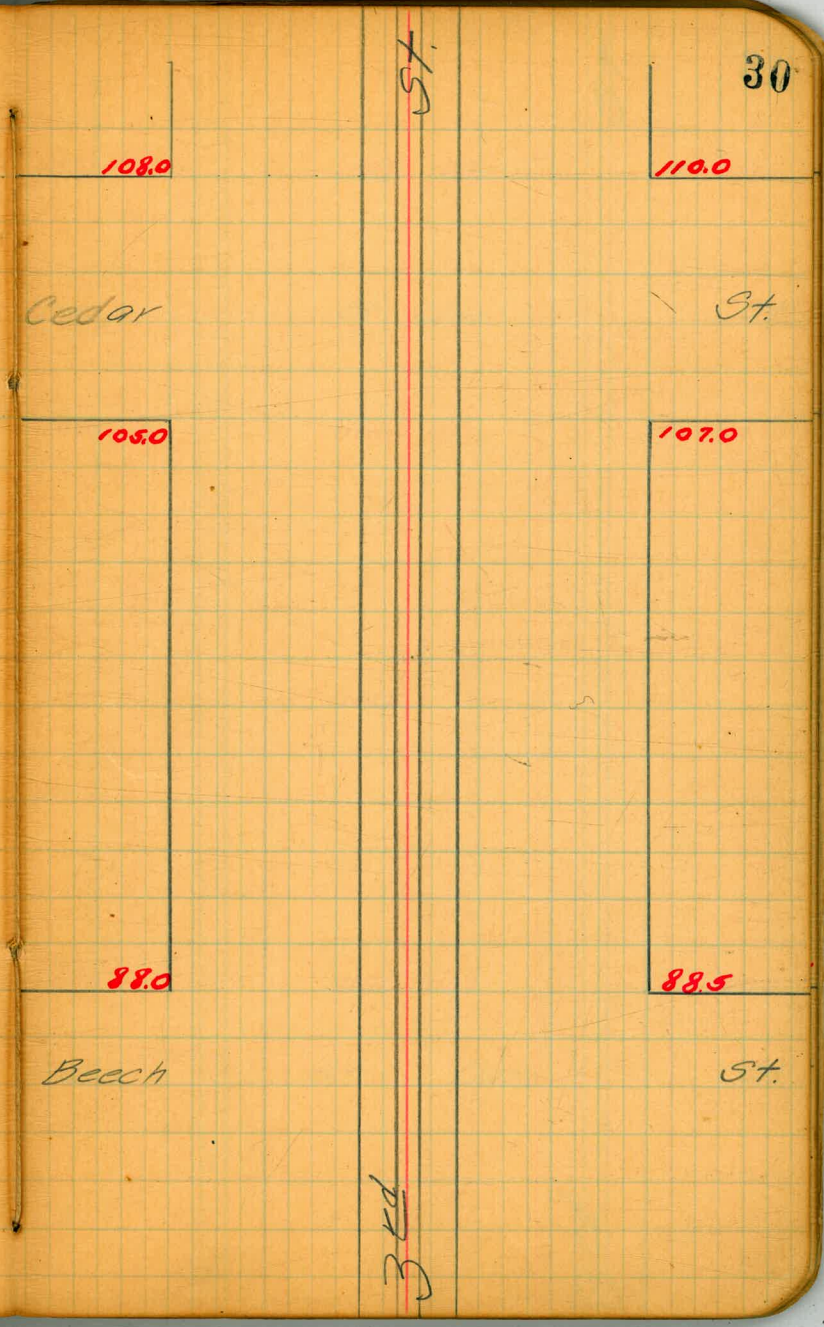
88.5

St.

87.0

73.5

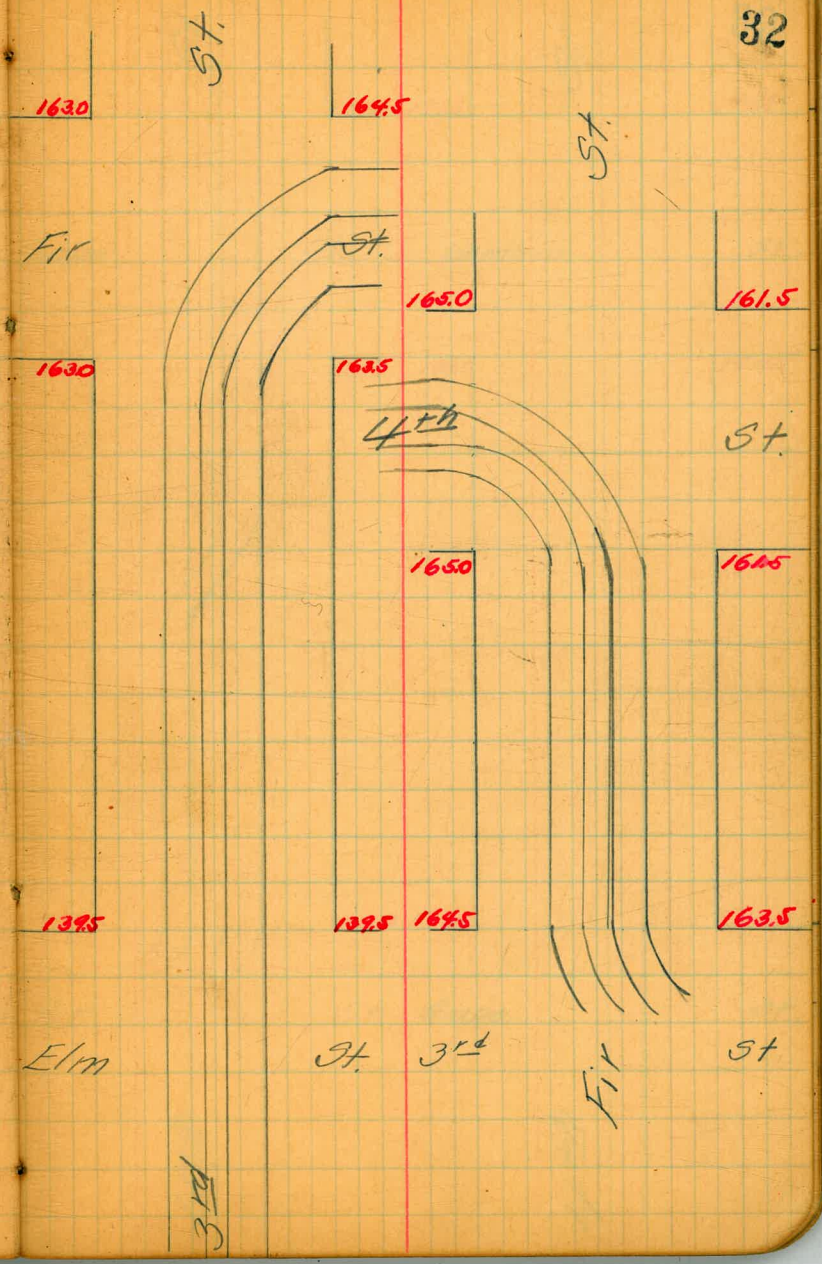
St.

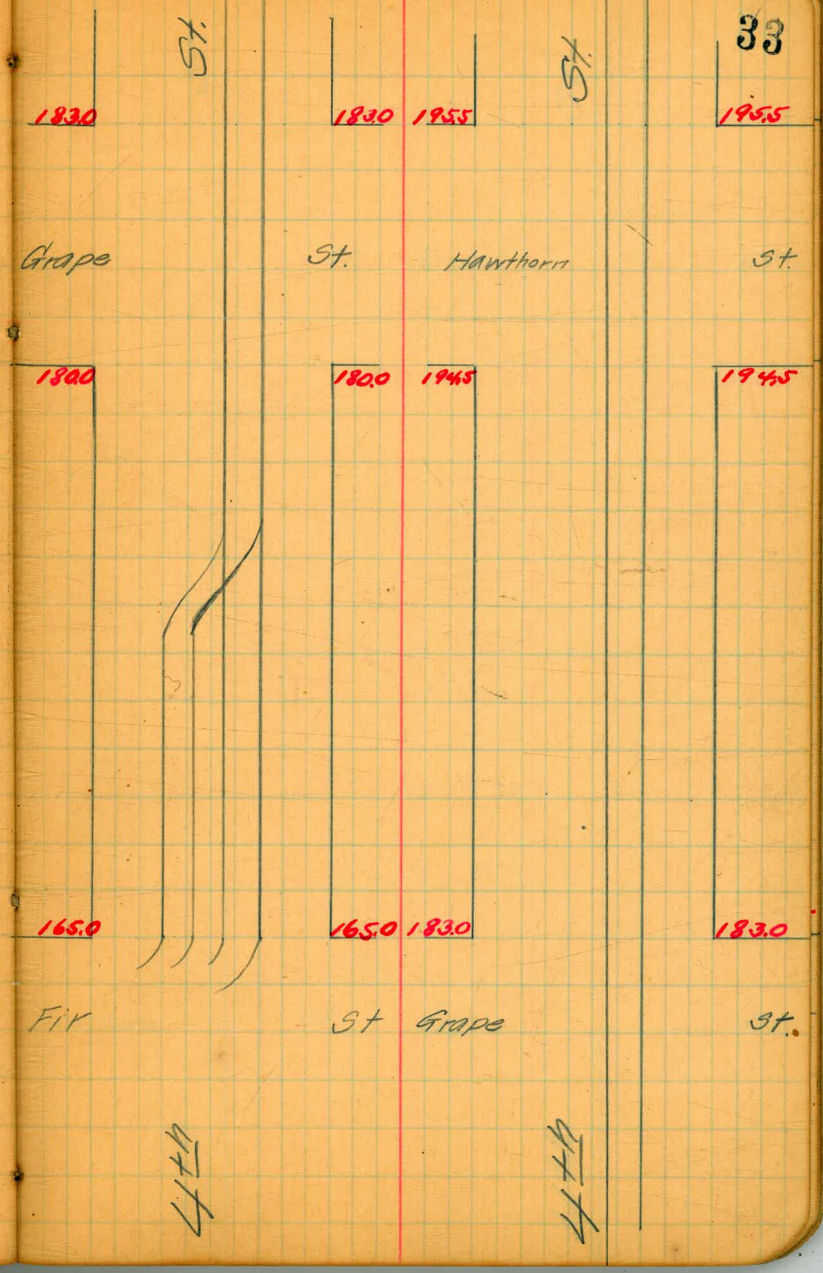

108.0
110.0
Cedar
St.
105.0
107.0
88.0
88.5
Beech
St.
3rd
St.

110.0	110.0	139.5	139.5
Date	St	Elm	St.
109.0	110.0	137.5	137.5
111.5	114.5		
108.0	110.0	110.0	110.0
Cedar	St	Date	St.

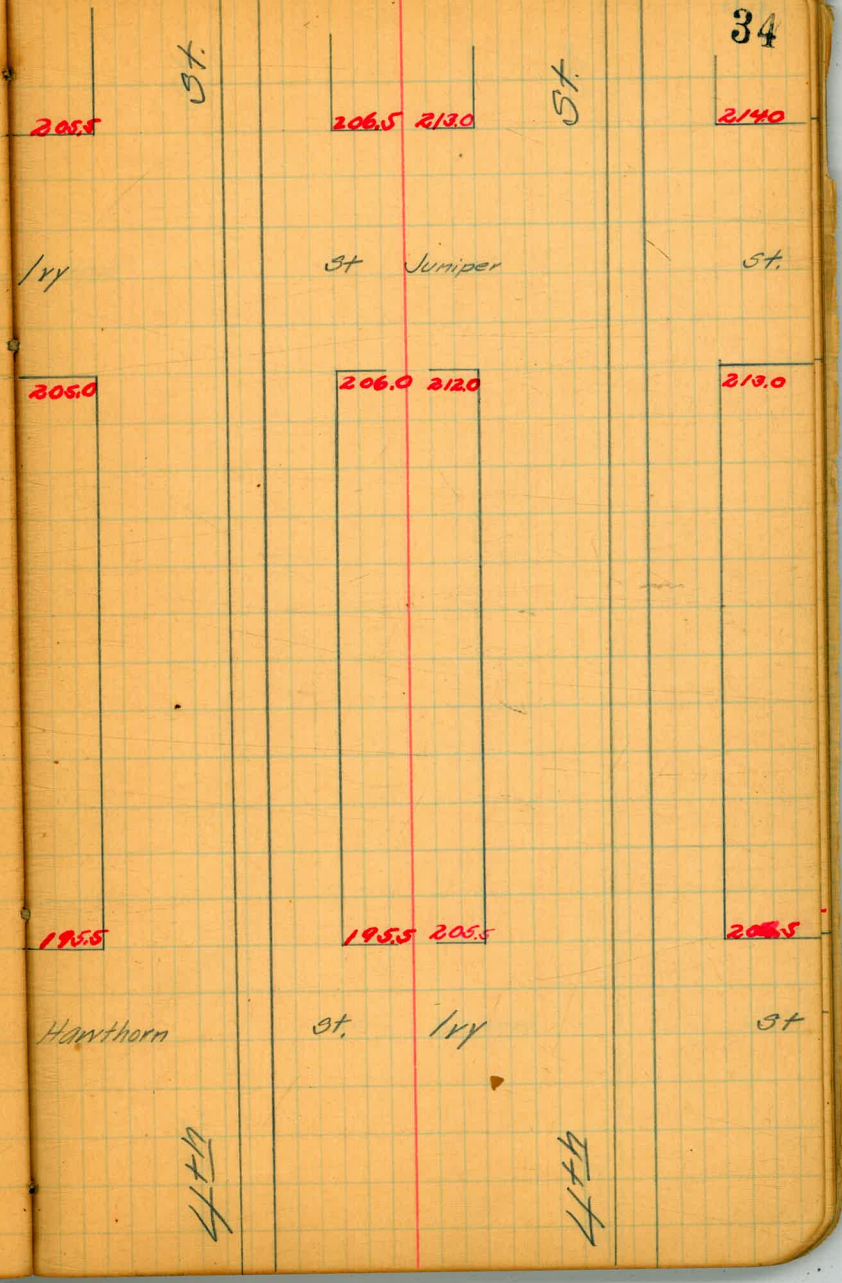
St.

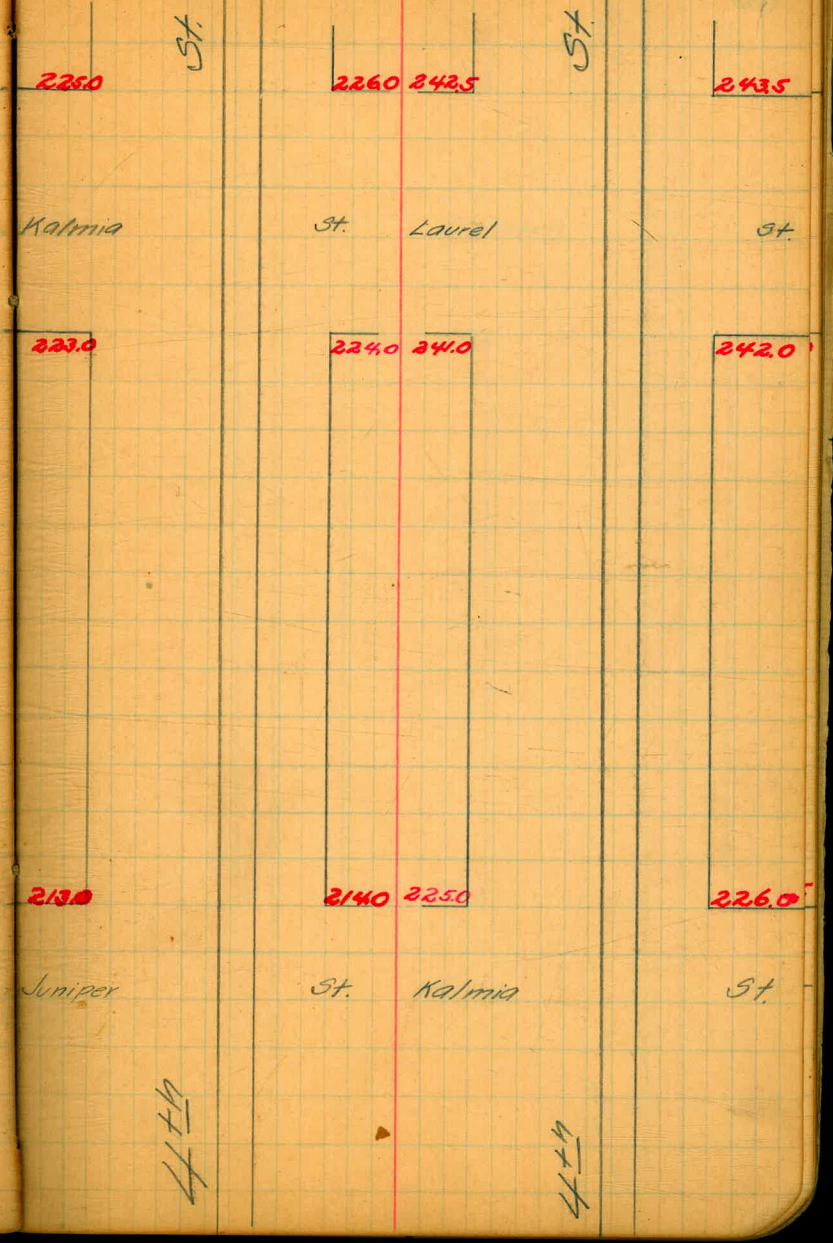
3rd


163.0
St.
164.5
St.
Fir
St.
165.0
161.5
163.0
163.5
4th
St.
165.0
164.5
139.5
139.5
164.5
163.5
Elm
St.
3rd
Fir
St
3rd


St.
St.
183.0
183.0
195.5
195.5
Grape
St.
Hawthorn
St.
180.0
180.0
194.5
194.5
165.0
165.0
183.0
183.0
Fir
St
Grape
St.
4th
4th

205.5	St.	206.5	213.0	St.	214.0		
Ivy		St	Juniper		St.		
205.0		206.0	212.0		213.0		
195.5		195.5	205.5		206.5		
Hawthorn		St.	Ivy		St		
	4th			4th			




St.
St.
226.0
226.0
242.5
243.5
Kalmia
St.
Laurel
St.
223.0
224.0
241.0
242.0
213.0
214.0
225.0
226.0
Juniper
St.
Kalmia
St.
4th
4th

St.

St.

253.5

254.5 262.0

263.0

Maple st. Nutmeg st.

252.0

253.0 261.0

262.0

242.5

243.5 253.5

254.5

Laurel st Maple st

4th

4th

5th St.

265.0

Olive St.

264.5

262.0

Nutmeg St.

4th

266.0 266.5

Palm St.

265.5 266.5

263.0 266.0

Olive St.

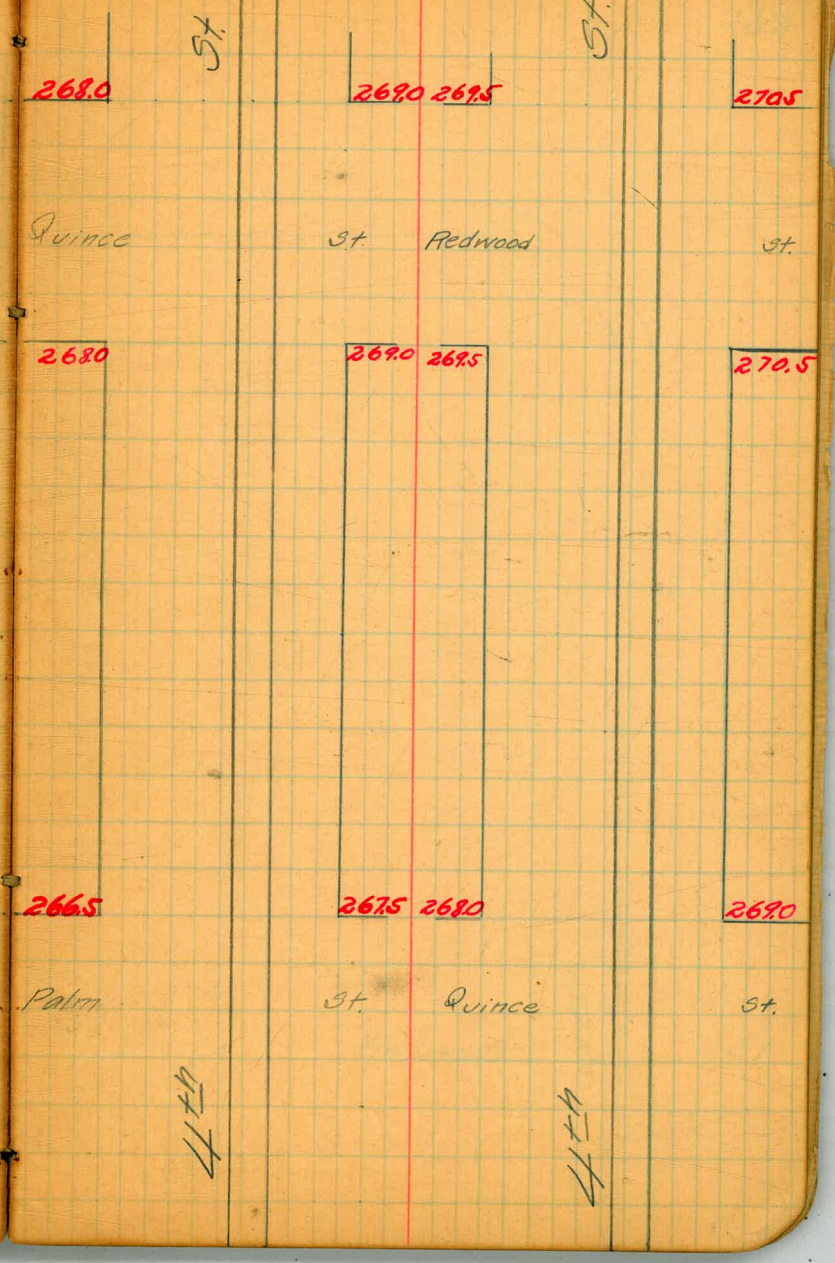
5th St.

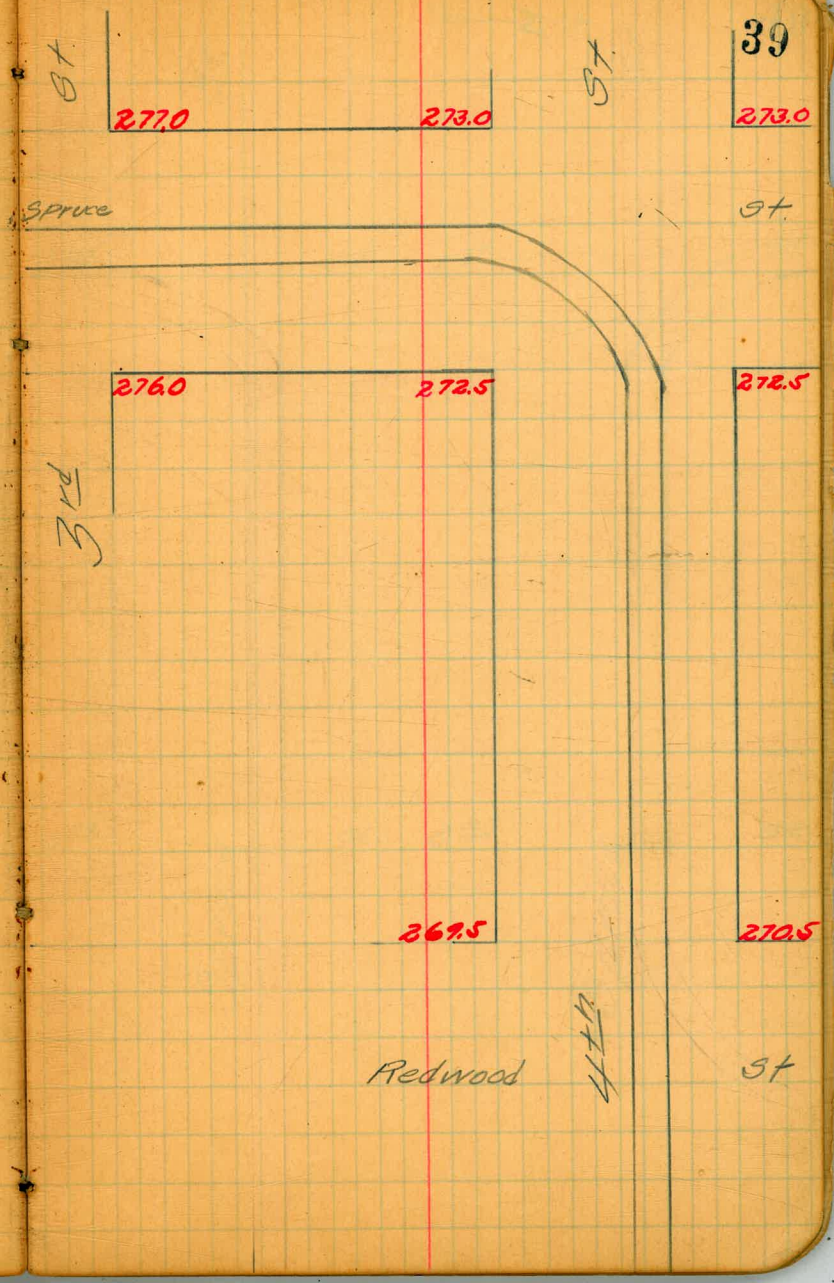
267.5

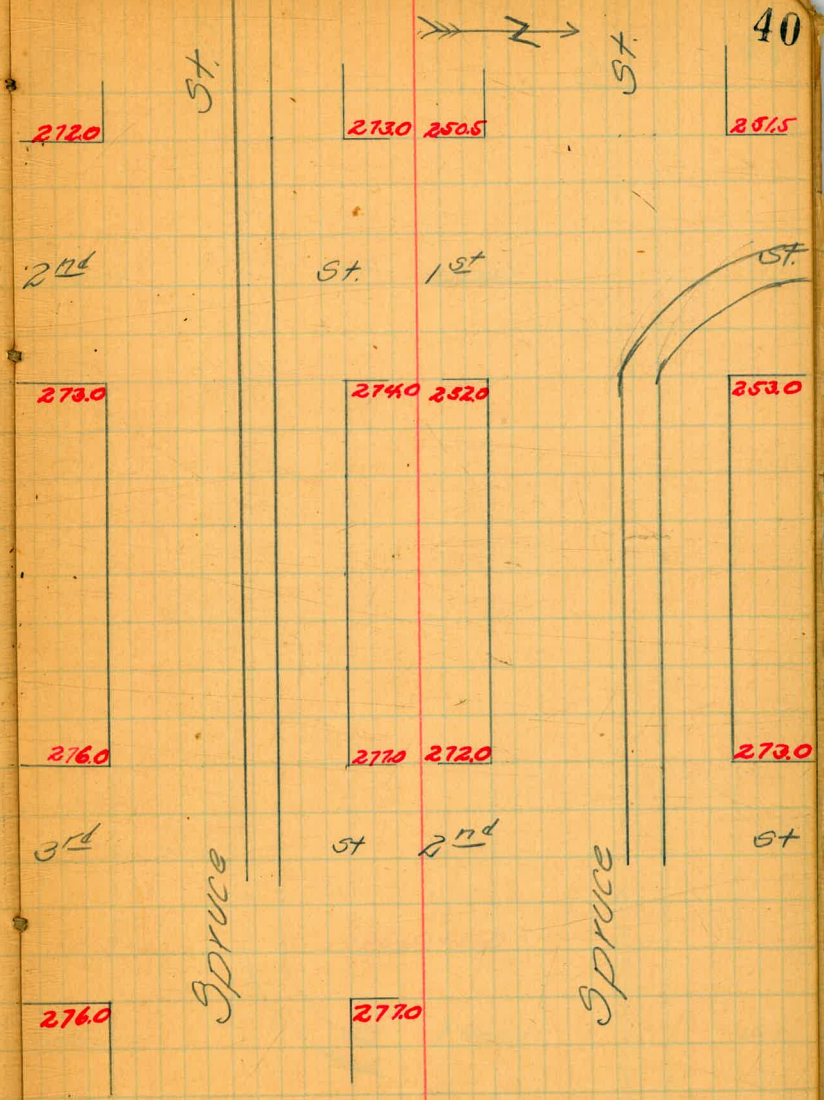
267.5

266.0

4th


268.0
St.
269.0
269.5
St.
270.5
Quince
St.
Redwood
St.
268.0
269.0
269.5
270.5
266.5
267.5
268.0
269.0
Palm
St.
Quince
St.
4th
4th


St
277.0
273.0
St.
273.0
Spruce
St.
276.0
272.5
272.5
3rd
269.5
270.5
Redwood
4th
St


N
St.
St.
272.0
273.0
250.5
251.5
2nd
St.
1st
St.
273.0
274.0
252.0
253.0
276.0
277.0
272.0
273.0
3rd
St
2nd
St
Spruce
Spruce
276.0
277.0

St. St.

255.0 256.5 258.5 260.0

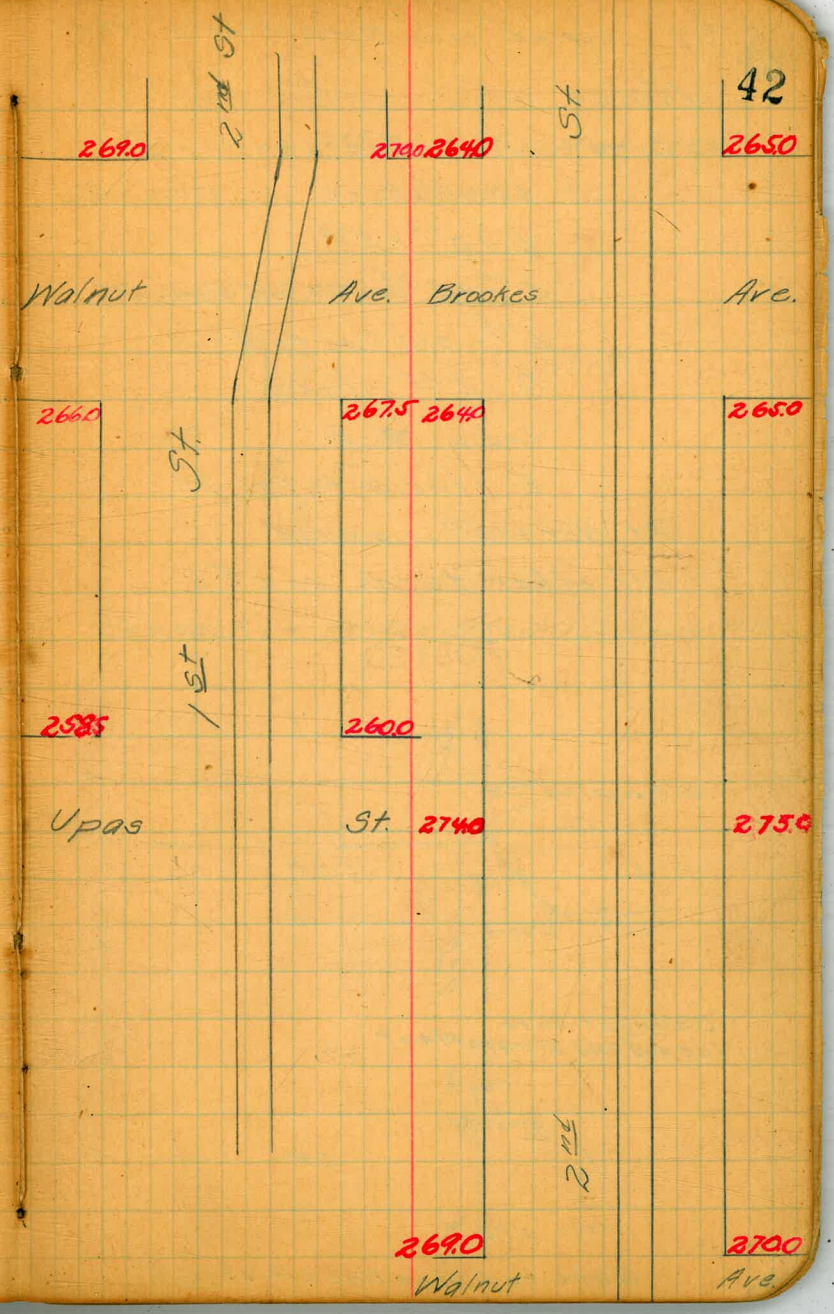
Thorn St Upas St

254.5 256.0 257.5 259.0

251.5 253.0 255.0 256.5

Spruce St Thorn St

St St


2nd St
St.
269.0
270.0
264.0
265.0
Walnut
Ave.
Brookes
Ave.
266.0
267.5
264.0
265.0
St.
1st
258.5
260.0
Upas
St.
274.0
275.0
2nd
269.0
270.0
Walnut
Ave.

3/11 '09 Copied from Notes of the Co. Mar. 11, 09

Notes on Union Oil Co

Pipe Line - Nat. Ave - 13

13 - Nat - L

L - 13th - 5th

5th - 2nd on old line

2nd - old line to G

G - 2nd - India

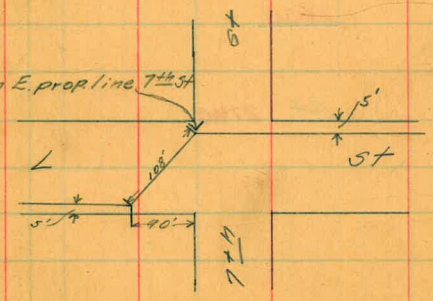
India - G - E

E - India - to Cal St.

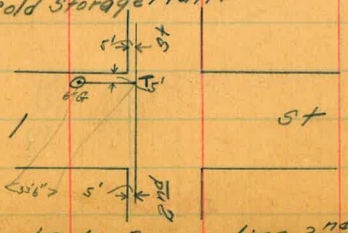
At Nat & 13th is a band

All other turns are Ts

POSTED



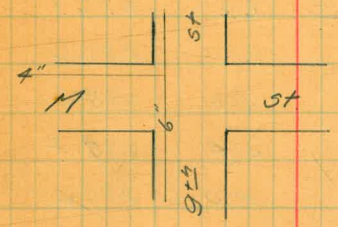
Connection to Ice and Cold Storage Plant



Gate to E prop line 2nd St 13'6"

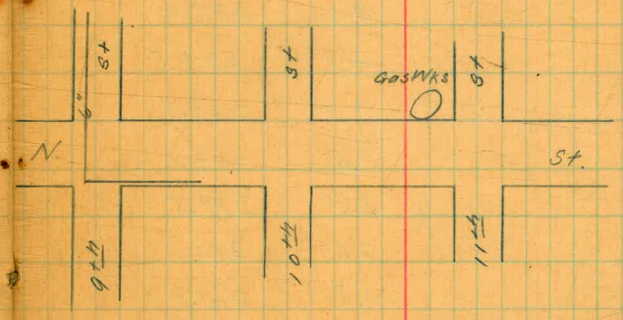
Branch on 9th St is 6" to N st, then 4" to Gas Wks and to Cuyamaca R.R.

Branch at 9th and M



POSTED

Connection to Gas Wks. and Cuyamaca R.R.



3 Hatch Levels on El. 4th
20 Moore
09 Dezil Broadway - 250' N.

BM 4th - Broadway 8.60	292.63		284.028
SW RR Spk Pole			
NL. Broadway		6.6	286.0
25'		6.1	286.5
50'		6.5	286.1
75'		6.0	286.6
100		5.6	287.0
175		5.4	287.2
131	POSTED	5.0	287.6
150		3.4	289.2
163		3.5	289.1
175		4.6	288.0
200		4.1	288.5
225		3.8	288.8
250		3.5	289.1
275		3.1	289.5
290		2.5	290.1
300		1.8	290.8

3/24/09 Hatch Xsection of Chalmers St. Moore Churchman from India to State.

SE Cor. BM India and Chalmers	12.09	80.38	68.29
		EL India	
N		11.2	69.2
cb		12.6	67.8
1/4		12.4	68.0
C		12.2	68.2
1/4		12.4	68.0
cb		12.8	67.6
S		11.7	68.7 POSTED
		S'E.	
S		8.9	71.5
S		8.6	71.8
+4		12.8	67.6
1/4		12.2	68.2
C		11.8	68.6
1/4		12.1	68.3
cb		12.1	68.3
+5'		11.1	69.3
+8.		6.9	73.5
N		7.2	73.2
		35 E	
N		5.5	74.9
+5		10.3	70.1
cb		10.3	70.1
1/4		10.7	79.7

		80.38	
C		10.1	70.3
+8		9.7	70.7
1/4		6.2	74.2
cb		6.5	73.9
S		8.1	72.3
		50 E	
		7.5	72.6
S		9.0	POSTED 71.4
cb		9.0	71.4
1/4		9.3	71.1
C		3.8	76.6
1/4		6.9	73.5
cb		7.2	73.2
+10		6.8	73.6
N		3.3	77.1
		75 E	
N		1.3	79.1
		3.2	77.2
cb		4.2	76.2
1/4		8.0	72.4
+7		10.0	70.4
C		10.3	70.1
1/4		9.9	70.5
cb		8.6	71.8
S		6.7	73.7

80.38

100' E

S	7.8	72.6
+7	5.5	74.9
cb	4.7	75.7
+8	5.2	75.2
1/4	8.3	72.1
C	8.3	72.1
+9	7.4	73.0
1/4	4.8	75.6
+5'	2.7	77.7

125' E

S	7.2	73.2
cb	4.1	76.3
1/4	3.5	76.9
C	4.6	75.8
1/4	4.3	76.1
+10'	2.8	77.6

150' E

S	6.1	74.3
+10	6.0	74.4
cb	4.5	75.9
+2	1.8	78.6
1/4	2.2	78.2
C	1.6	78.8

80.38

164' E

S		5.1	75.3
		1.8	78.6
+8'		3.4	77.0
		0.2	80.2
cb		0.4	80.0
T.P.	12.52	92.68 0.22	80.16

100' E

1/4 +2'	11.1	81.6
cb.	11.0	81.7
N	11.8	80.9

125' E

N	8.8	83.9
+10'	8.7	84.0
cb	13.0	79.7

150' E

N	5.8	86.9
+8	7.4	85.3
cb	9.2	83.5
1/4	12.0	80.7

175' E

S	12.2	80.5
cb	12.1	80.6
1/4	11.9	80.8
C	11.1	81.6
1/4	9.8	82.9

POSTED

		92.68		
+9			8.9	83.8
cb			6.0	86.7
N			3.1	89.6
	200 E = Wh Columbia			
N			0.8	97.9
cb			2.4	90.3
b			5.9	86.8
			8.9	83.8
1/a			10.5	82.2
cb			11.3	81.4
S			10.2	82.5
TP	11.98	104.11	0.55	92.18
	El Columbia			
S			10.4	93.7
cb			15.3	88.8
1/4			17.8	86.3
c			17.1	87.0
1/a			11.6	92.5
cb			7.5	96.6
N			4.6	99.5
	15 E			
N			2.3	101.8
cb			6.0	98.1
1/a			10.3	93.8

	104.11		
C		13.0	91.1
1/a		15.2	88.9
cb		16.3	87.8
S		10.4	93.7
	50 E		
S		11.3	92.8
+9		15.3	88.8
cb		16.5	87.6
1/a		12.0	92.1
a		9.4	94.7
1/b		6.5	97.6
cb		2.7	101.4
	75 E		
N cb		0.0	104.1
1/4		4.6	99.5
c		8.0	96.1
1/a		9.5	94.6
+8		10.2	93.9
cb		13.2	90.9
+4		14.1	90.0
S		7.8	96.3

		104.11		
		100' E		
S			5.0	99.1
cb			12.4	91.7
1/4			7.4	96.7
C			6.3	97.8
1/4			4.4	99.7
		125' E		
N 1/4			3.7	100.4
O			5.2	98.9
+ 1/4			10.6	93.5
cb			8.1	96.0
S			1.0	103.1
		150' E		
T.P.	6.85	110.72	0.24	103.87
		50' E of Columbia		
N			6.2	104.5
		75' E		
N			2.1	108.6
		100' E		
N			2.9	107.8
cb			6.6	104.1
		125' E		
N			1.9	108.8
cb			6.1	104.6

	110.72		
	150' E		
N		1.1	109.6
cb		4.3	106.4
1/4		9.0	101.7
+10		14.5	96.2
cr		12.6	98.1
+9		12.4	98.3
1/4		10.1	100.6
cb		5.3	105.4
S		2.0	108.6
	175' E		
S		+1.2	111.9
cb		0.0	110.7
1/4		3.5	107.2
+7		5.1	105.6
C		8.3	102.4
1/4		11.5	99.2
cb		7.1	103.6
N		3.4	107.3
	200' E – WL State		
N		5.1	105.6
+9'		10.0	100.7
cb		8.1	102.6
1/4		5.8	104.9

		110.72		
C			5.2	105.5
1/4			0.5	110.2
TP	8.78	119.04	0.46	110.26
cb			5.8	113.2
S			4.6	114.6
		W Cb State		
S			3.1	115.9
cb			4.4	114.6
1/4			7.2	111.8
C			12.5	106.5
1/4			13.1	105.9
cb.			13.2	105.8
+9			16.3	102.7
N.	bottom of ravine		16.2	102.8
		W 1/4 State		
N			13.8	105.2
+5			12.0	107.0
cb.			11.6	108.4
1/4			11.7	107.3
C			11.0	108.0
1/4			6.0	113.0
cb			3.0	116.0
S			1.0	118.0

		119.04		
		Cr		
N			10.3	108.7
cb			8.9	110.1
1/4			9.4	109.6
+10			9.5	109.5
C			7.7	111.3
1/4			2.8	116.2
cb			0.5	118.5
TP	10.43	129.17	0.30	118.74
S			7.5	121.7
		E 1/4		
S			4.0	125.2
cb			7.6	121.6
1/4			10.0	119.2
C			15.6	113.6
1/4			15.3	113.9
+9'			14.6	114.6
cb			16.8	112.4
N.			19.4	109.8
		E cb		
N.			18.1	111.1
cb			14.0	115.2
1/4			11.6	117.6
C			12.9	116.3

		129.17			
1/4			7.9	121.3	
cb			5.0	124.2	
S			1.6	127.6	
		EL. State			
S			+0.8	130.0	
cb			1.9	127.3	
1/4			6.1	123.1	
C			8.4	120.8	
1/4			8.7	120.5	
+7			8.6	120.6	
cb			12.2	117.0	
N			16.4	112.8	
on B.M.	11.40	77.48		66.08	B.P. SW Indiana Chal.
T.P.	12.17	89.43	0.22	77.26	
T.P.	12.88	102.19	0.12	89.31	
T.P.	12.73	114.32	0.60	101.59	
T.P.	11.90	125.23	0.99	113.33	
		25.57' E = Middletown Line on N			
-15			11.5	113.7	
N			10.0	115.2	
+7			6.3	118.9	
+7.1			1.0	124.2	
T.P.	12.06	136.26	1.03	124.20	

POSTED

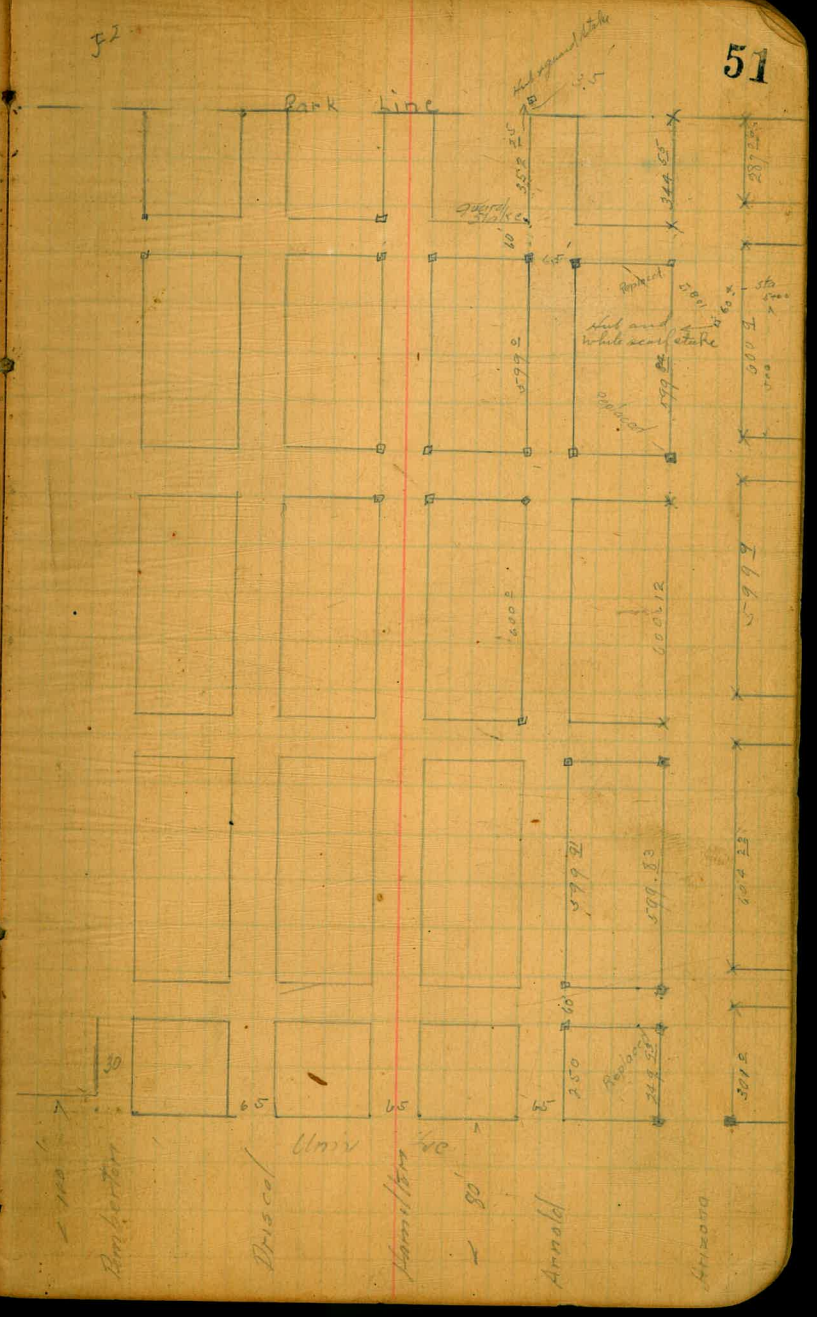
(136.3)

cb			10.7	125.6
1/4			9.9	126.4
C			8.9	127.4
1/4			8.1	128.2
cb			4.7	131.6
S			0.6	135.7
T.P.	10.65	145.61	1.30	134.96
		.64' E		
S			2.0	143.6
cb			8.2	137.4
		76.17 E on S 35.57 " N } = Middletown Line		
S			2.2	143.4
cb			8.2	137.4
1/4			12.0	133.6
C			14.3	131.3
1/4			15.7	129.9
cb			18.9	126.7
+8			21.2	124.4
+8.1			26.7	118.9
N			30.4	115.2

5/6 Hatch
Moore
Thomas

Measurements on Park
Villa Tract

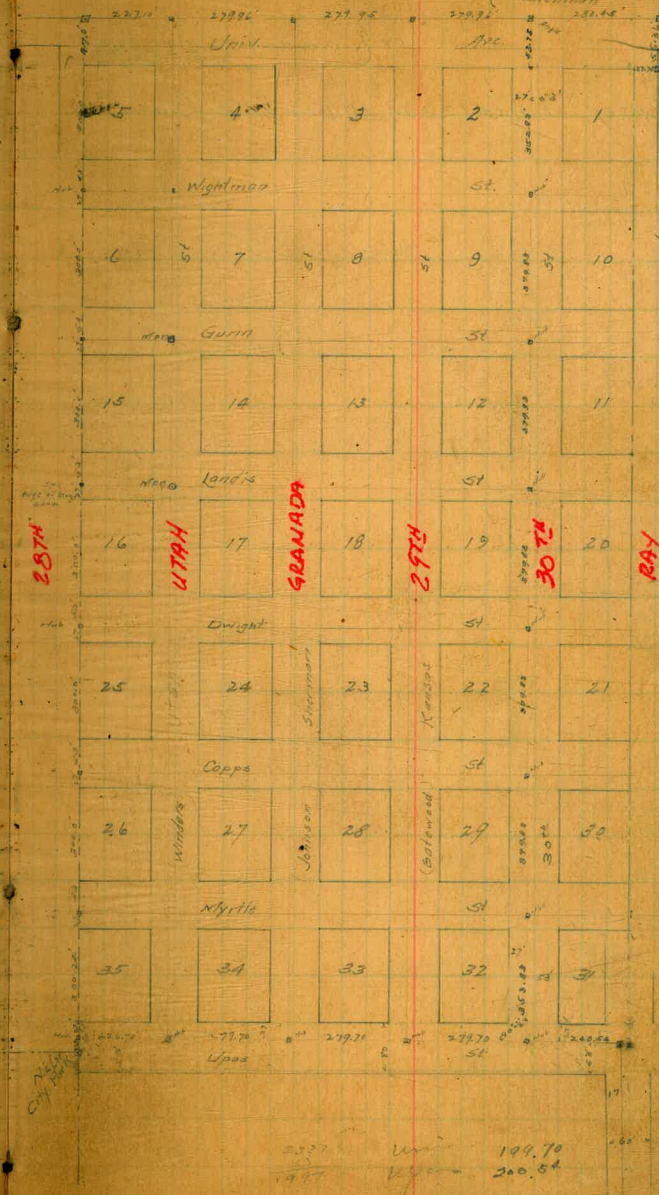
POSTED



POSTED

Tie Points for West End

7 Davis
09 Williams
Churchman



Note monuments set at every intersection except Utah & Landis

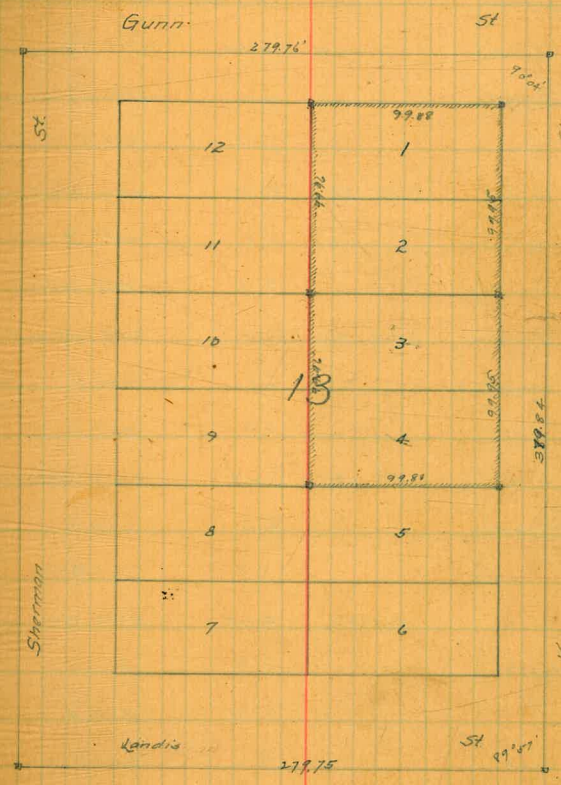
2537
1997

Univ 199.70
Upas 200.54

POSTED

7 Davis
26 Williams
27 Churchman

Survey of Lots 1.2.3.&4 Blk. 13 West End



Levels for Monuments in West End 11/30/09 { Dam / Miller

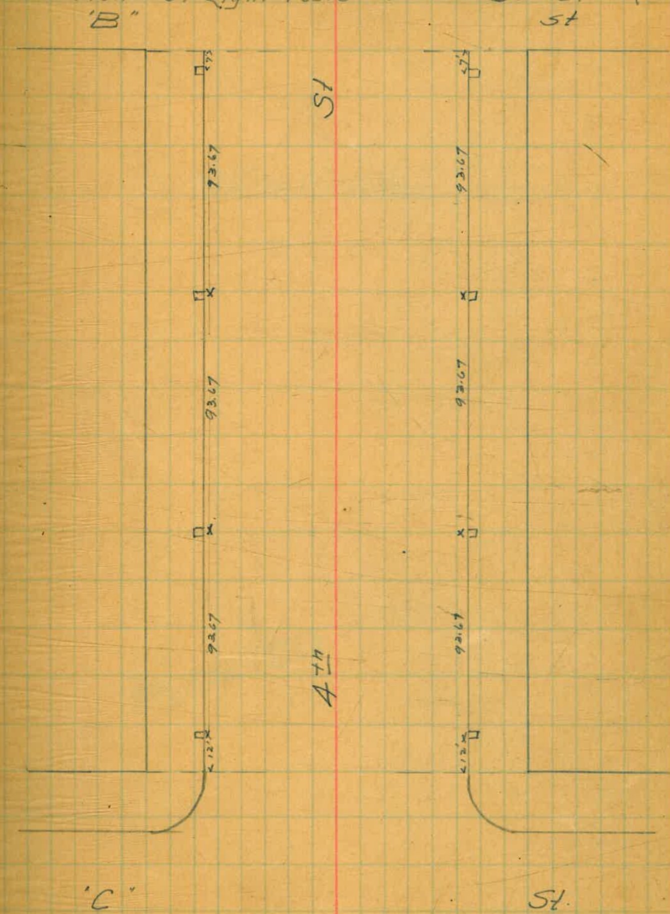
	+	Ht	−		
	2.71	358.34		355.63	BM/SW 33rd & Unn
T.P.	2.72	350.47	10.59	347.75	
Kan & Wightman			2.72	347.75	
Sherman	"		2.90	347.57	
"	Gunn		7.2	343.3	
Kansas	"		7.15	343.3	
T.P.	3.57	345.89	8.15	342.32	
Kansas & Landis			5.2	340.7	
Sherman	"		6.3	339.6	
T.P.	4.13	343.42	6.60	339.29	
Sherman & Dwight			6.60	336.8	
Kansas	"		6.3	337.1	
T.P.	4.01	338.19	9.24	334.18	
Kansas & Capps			5.6	332.6	
Sherman	"		6.7	331.5	
T.P.	2.00	335.51	4.68	333.51	
Sherman & Myrtle			3.9	331.6	
Kansas	"		5.5	330.0	
"	Upas		9.6	325.9	
Sherman	"		4.0	331.5	
T.P.	5.22	339.70	1.03	334.48	
Upas & Utah			9.1	330.6	
"	Idaho		9.9	329.8	

2.70
347.54

Myrtle & Idaho			6.6	333.1
"	Utah		5.3	334.4
T.P.	5.90	341.26	4.34	335.36
Capps & Utah			6.0	335.3
"	Idaho		7.7	333.6
Dwight	"		6.4	334.9
"	Utah		4.2	337.0
T.P.	7.98	345.78	3.46	337.80
Landis & Utah			5.6	340.2
"	Idaho		5.1	340.7
T.P.	7.10	350.24	2.64	343.14
Gunn	Idaho		6.00	344.2
"	Utah-S.		6.3	343.9
Wightman	"		4.6	345.6
"	Idaho		6.0	344.2

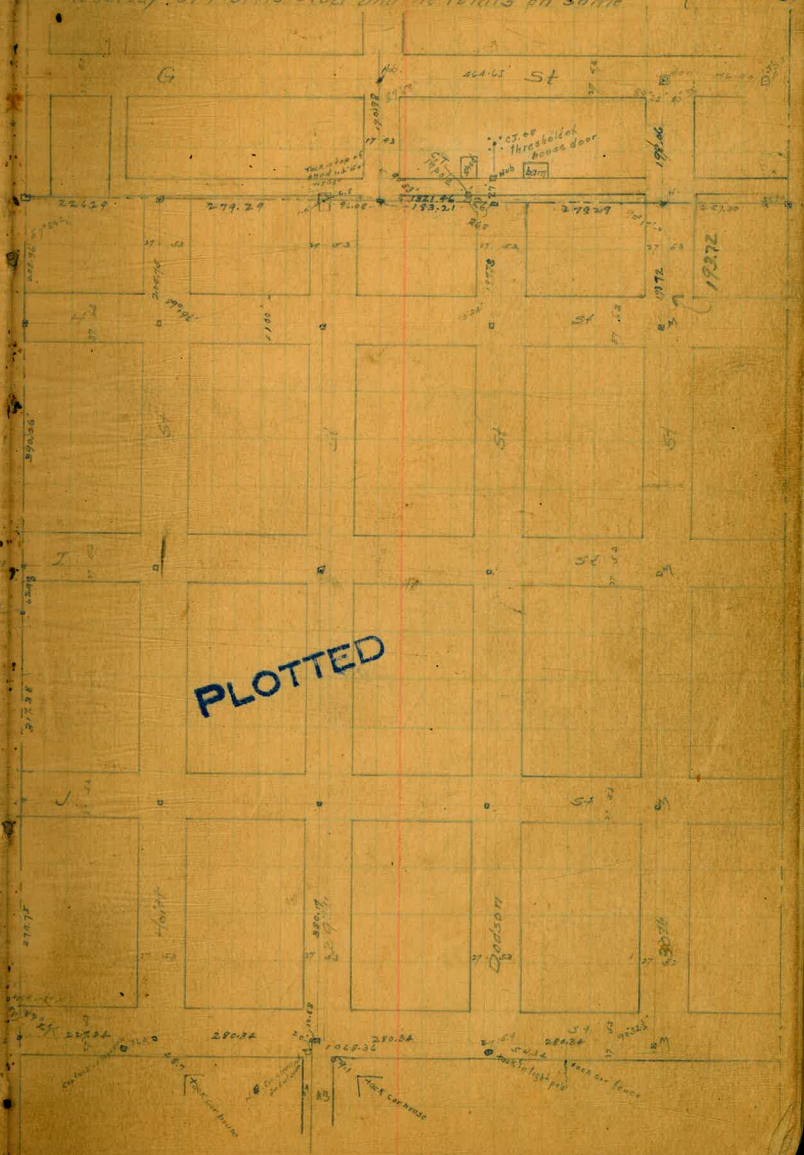
12/14/09 { Davis / Williams / Churchman

Location of Light Posts - 4th St B to C.



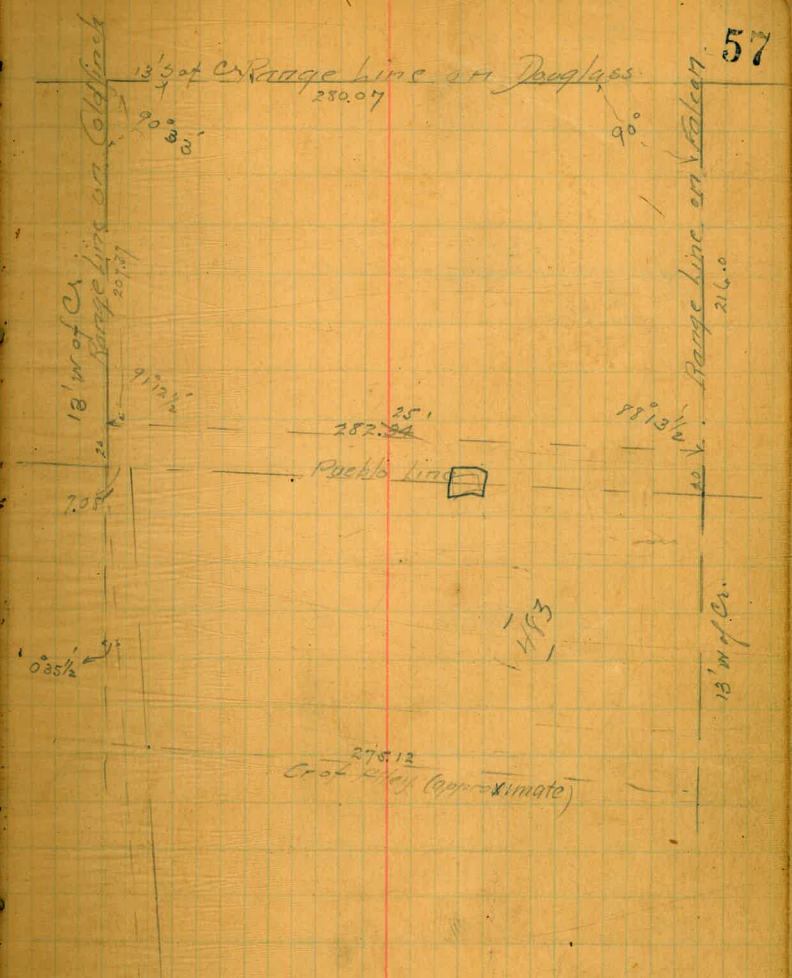
See Page 64

Resurvey of Hoit's Add and Tie Points on same



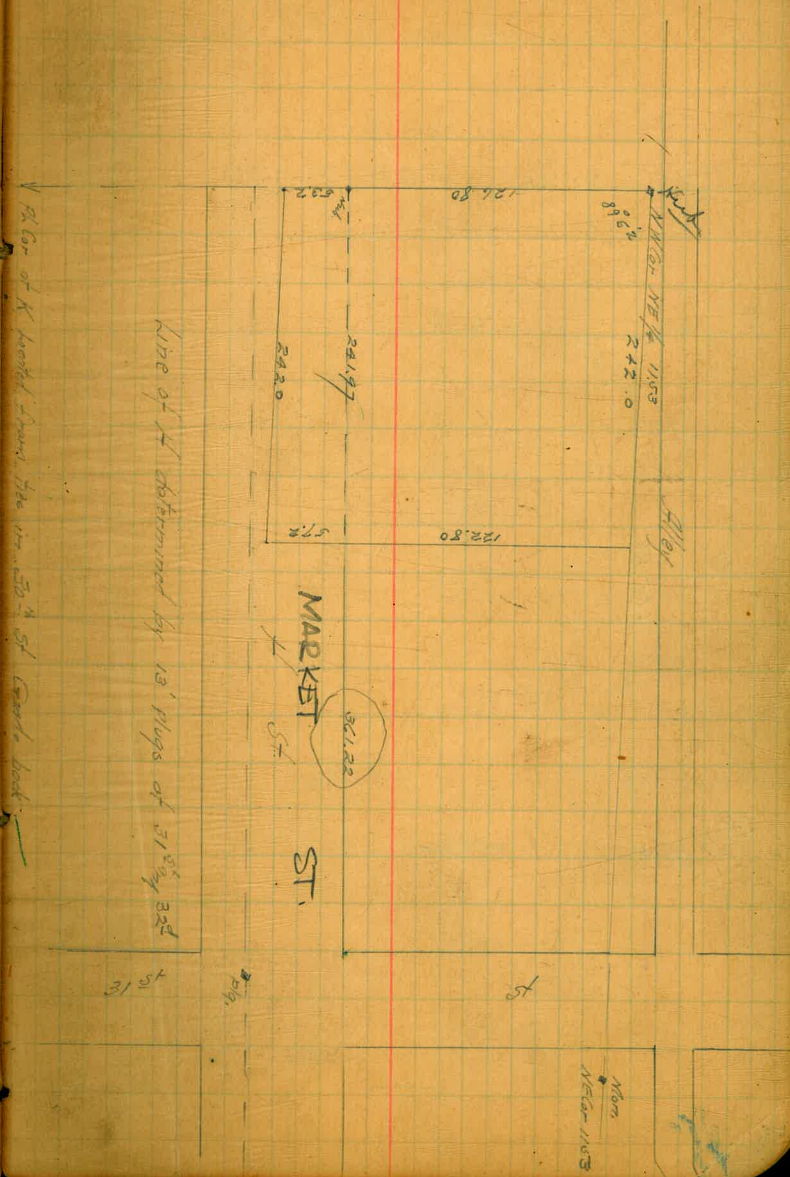
6/7/10 Hatch
Butler
Fitzpatrick

Measurements on Goldfield and Falcon from Douglas South for description for opening of Falcon through Blk 483



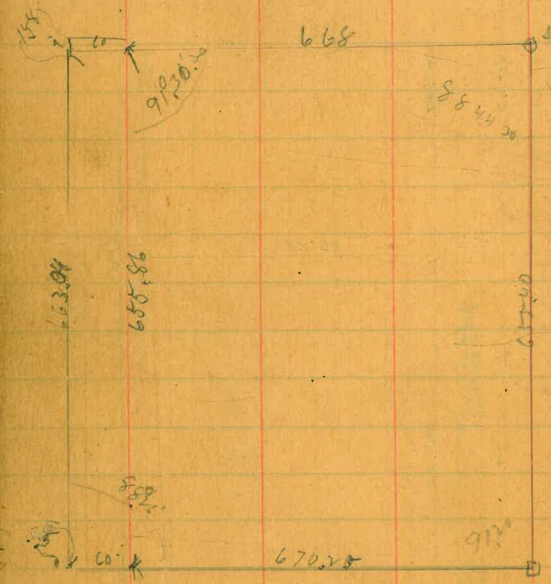
3/23/11 Measurements for opening of K St.
between 30th and 31st
Hatch Moore Rogers (sick)

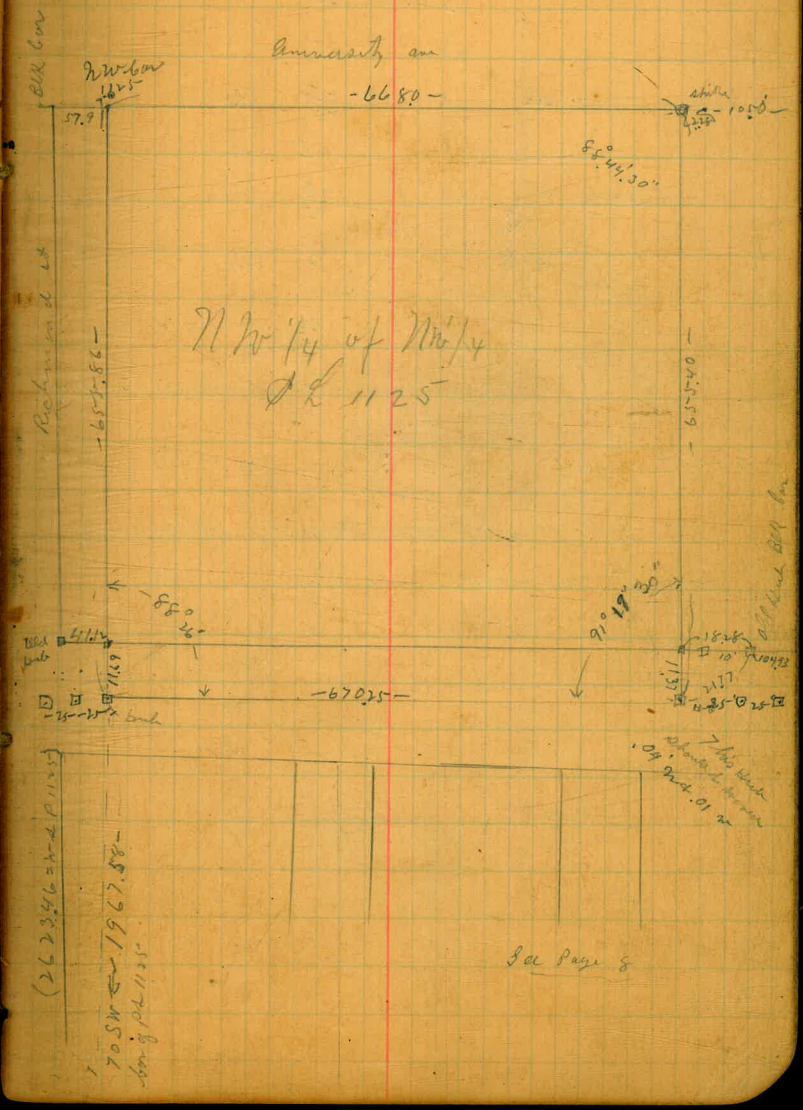
See P56



5/8/11 | Clough Donnan Fitzpatrick

Survey of NW 1/4 of NW 1/4 of PL 1125
To show Robinson Ave off of it
Starting from Survey on Page 8
Subdividing the Parcels

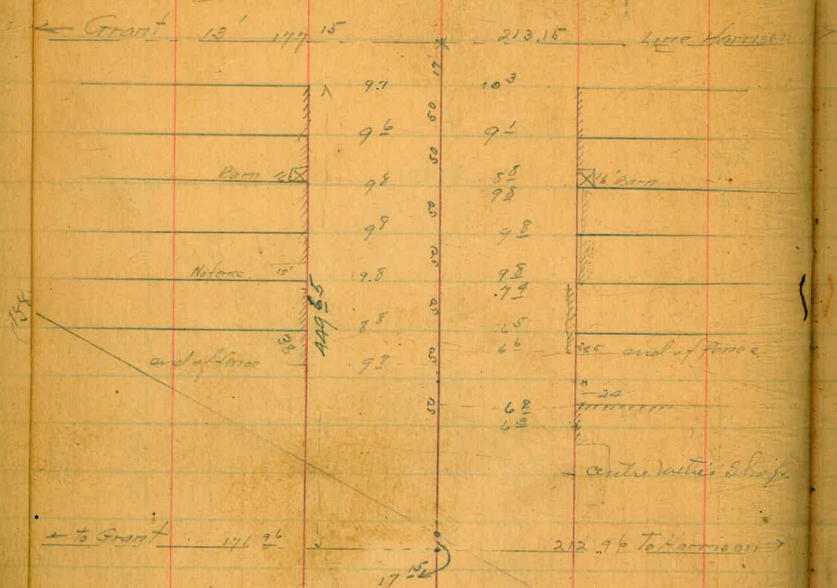




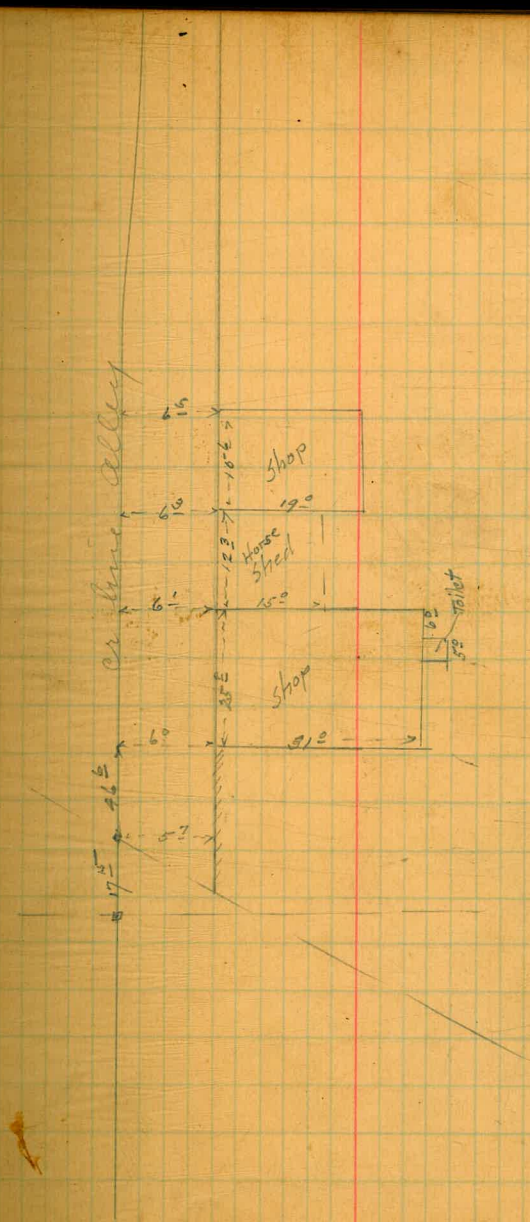
See Page 8

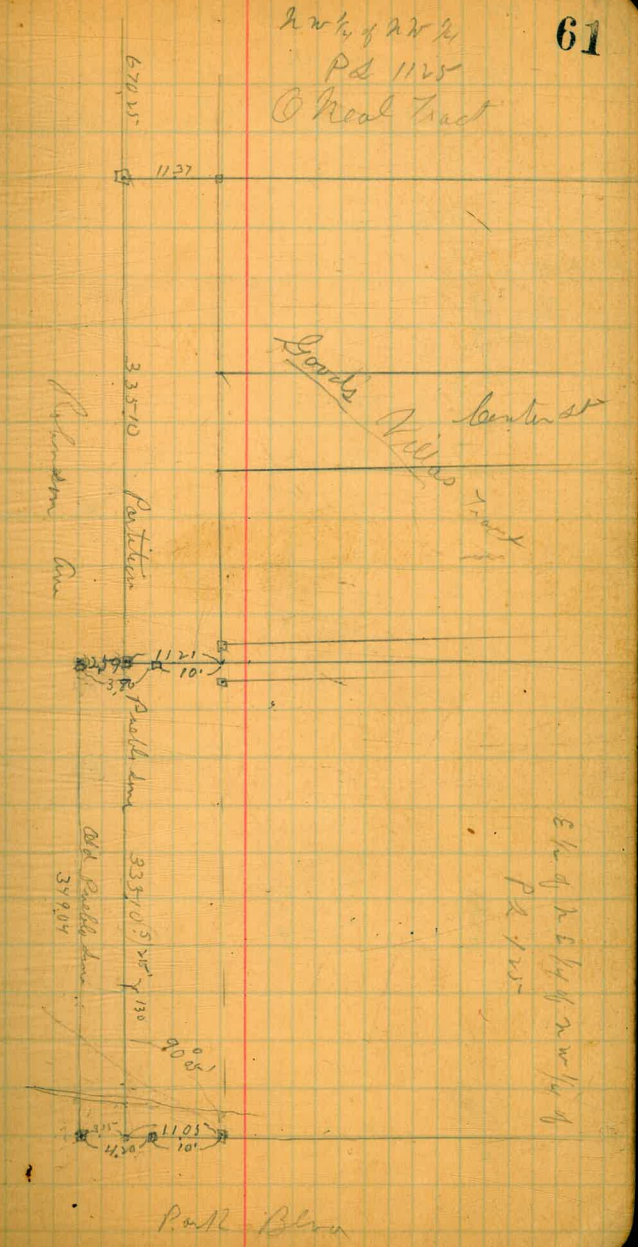
10/ Hatch
18/ Moore
11 Hall

Measurements in Pillow Blk 177
Land - Town Co



Center Line of Alley Taken midway Between Grant and Harrison Avenues

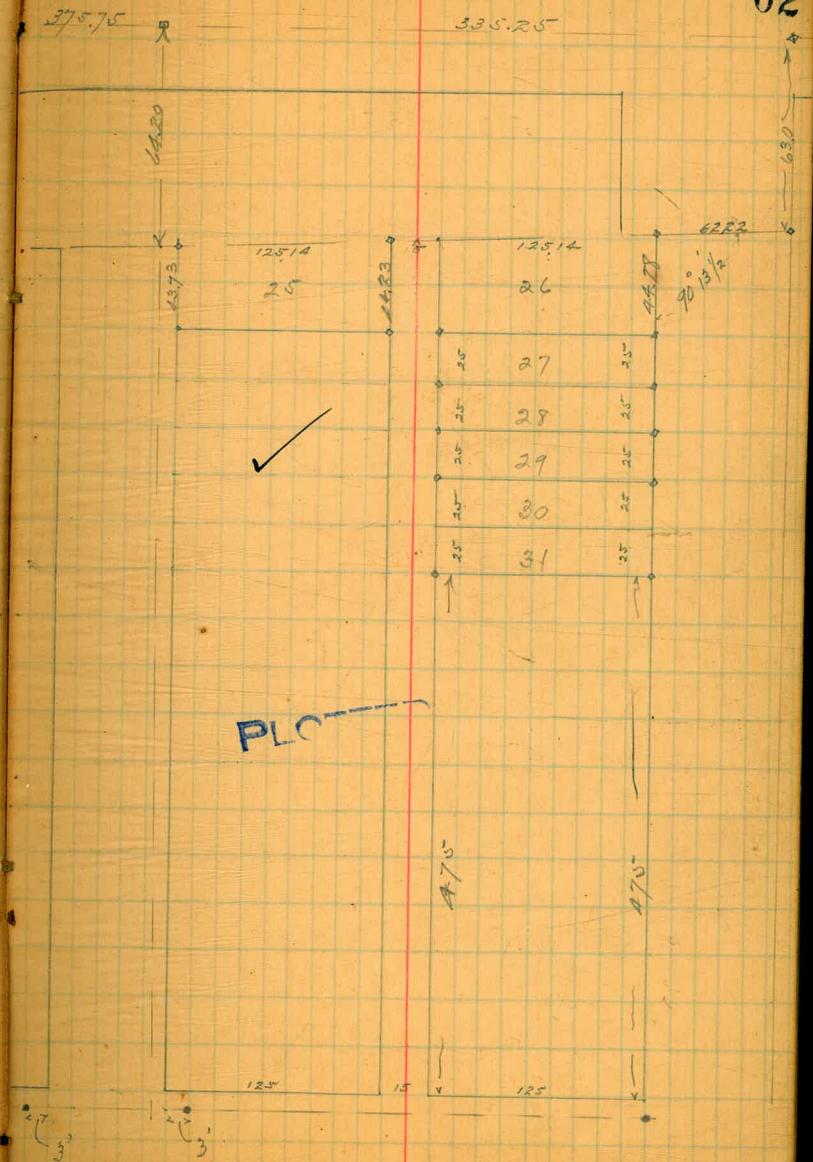


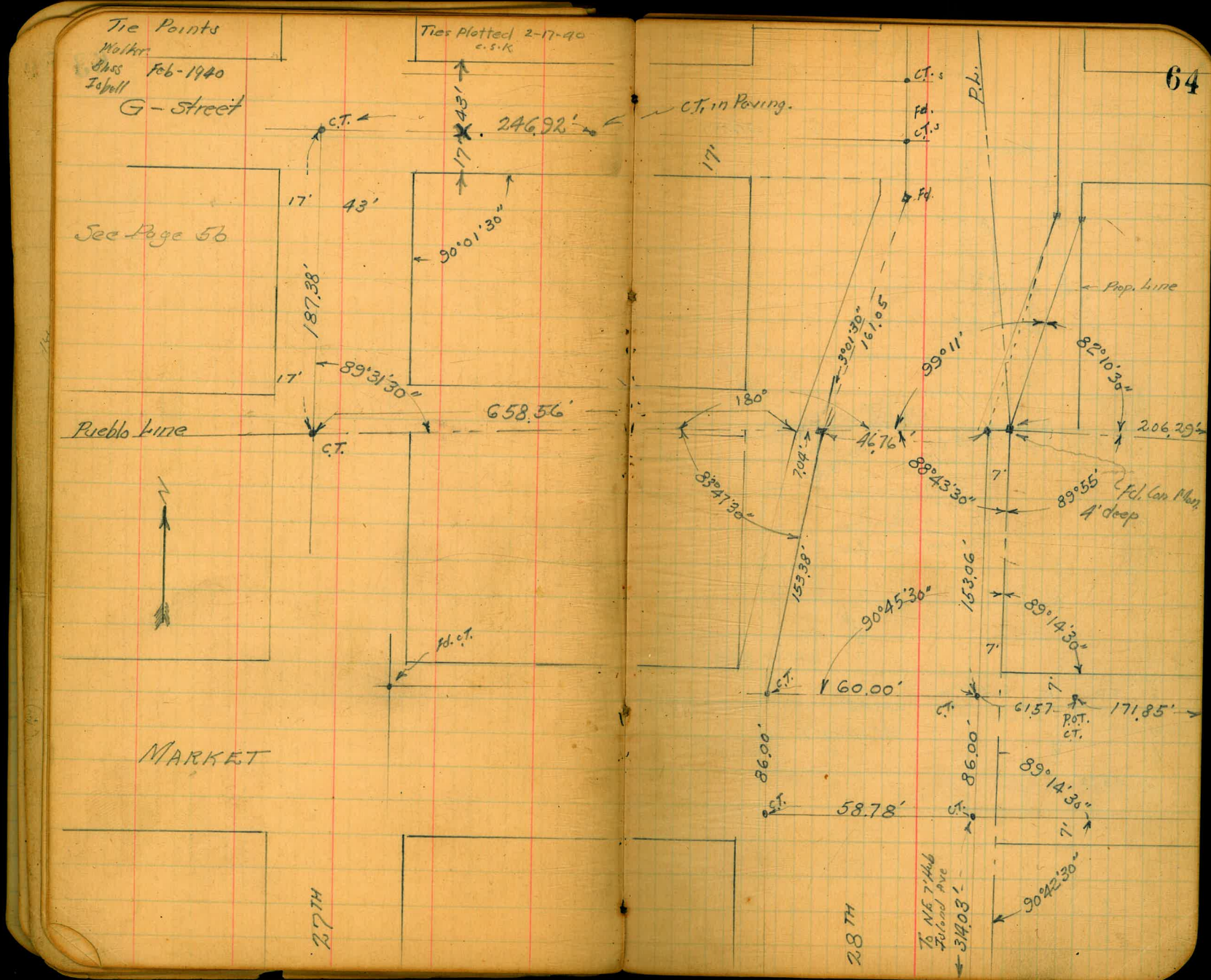

N W 1/4 of N W 1/4
P.S. 1125
O Neal Tract
670.25
11.37
335.10
Partition
Robinson Ave
Goods Villas Tract
Center St
11.21
10'
Pueblo Ave
Old Pueblo Ave
349.04
333.10
90°
11.05
10'
Park Blvd

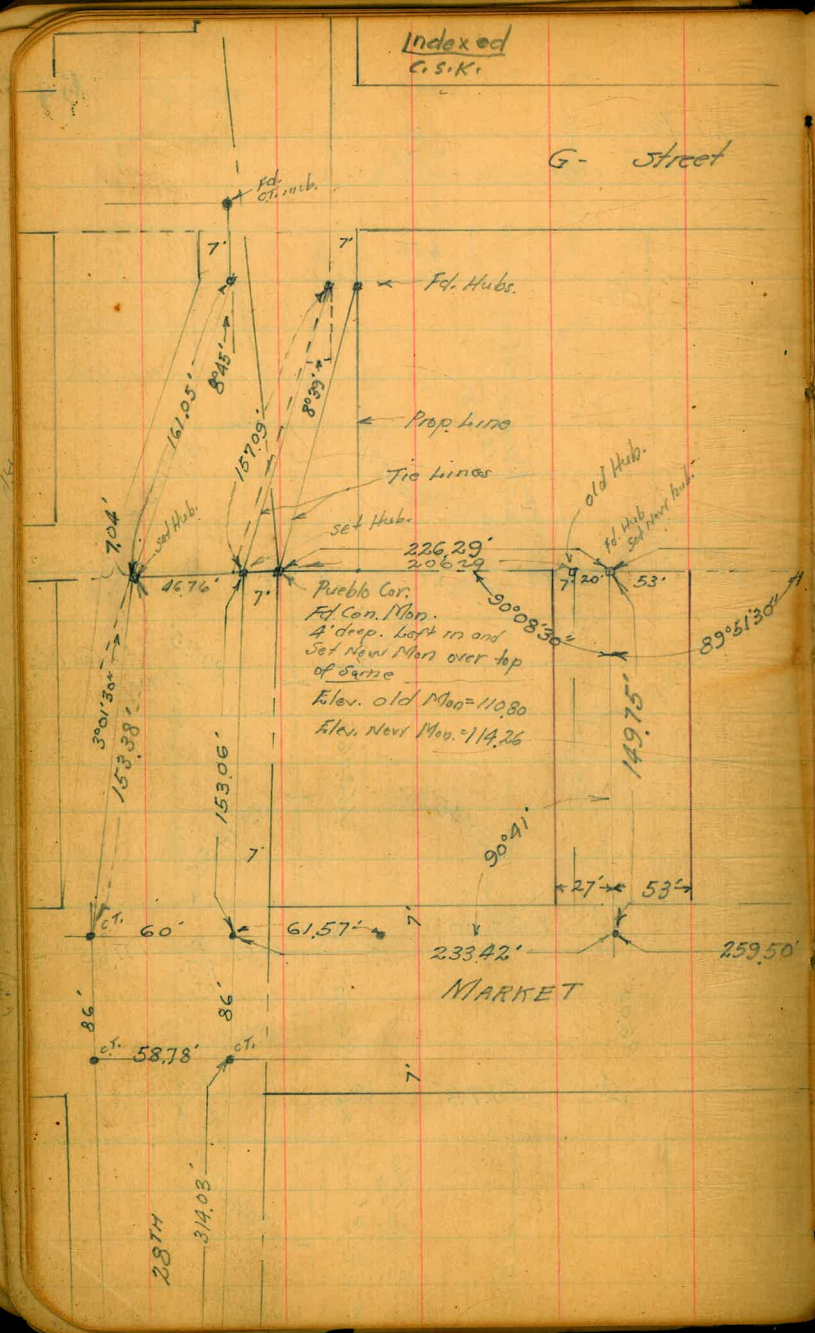
5/7/15 Hatch
Moore
Hall

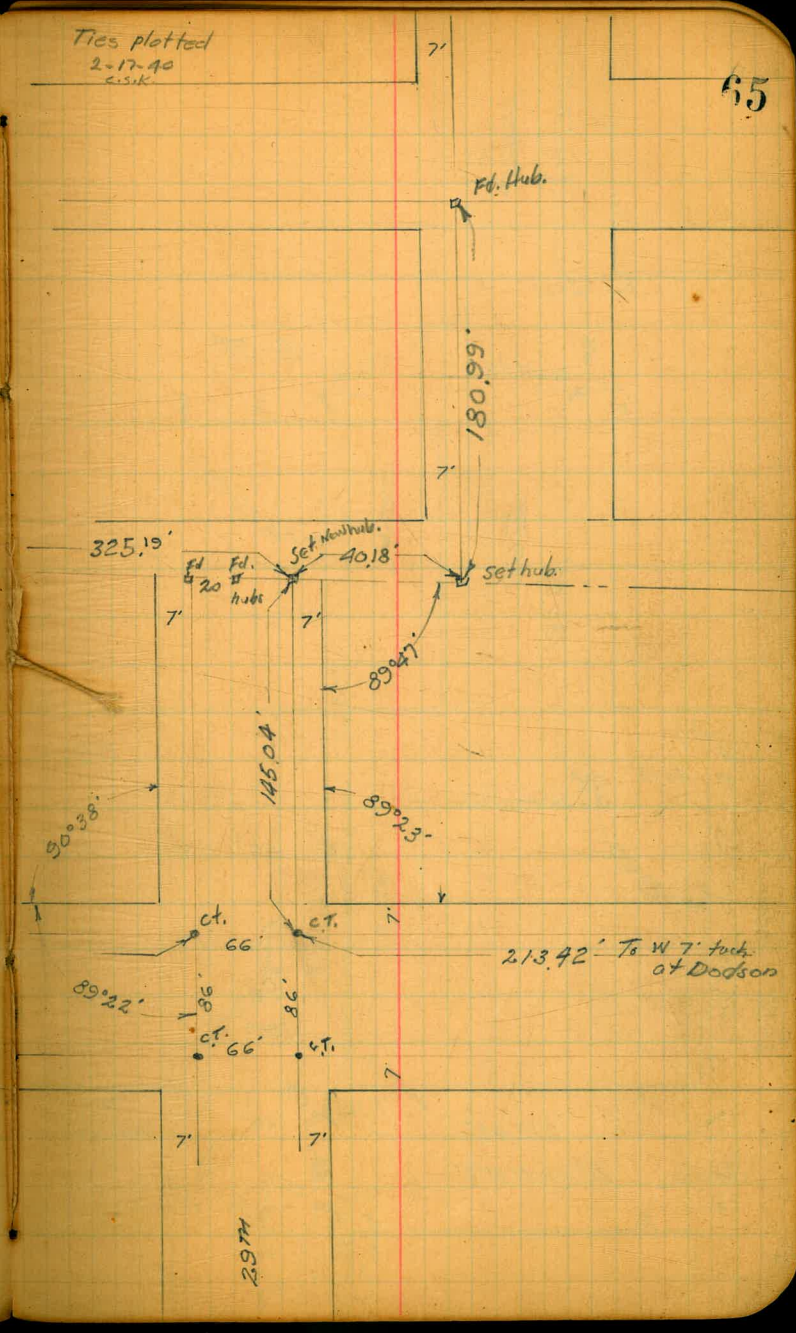
Survey lots 25, 27, 29
30, 31 Blk 51
Almstead & Lewis Addn

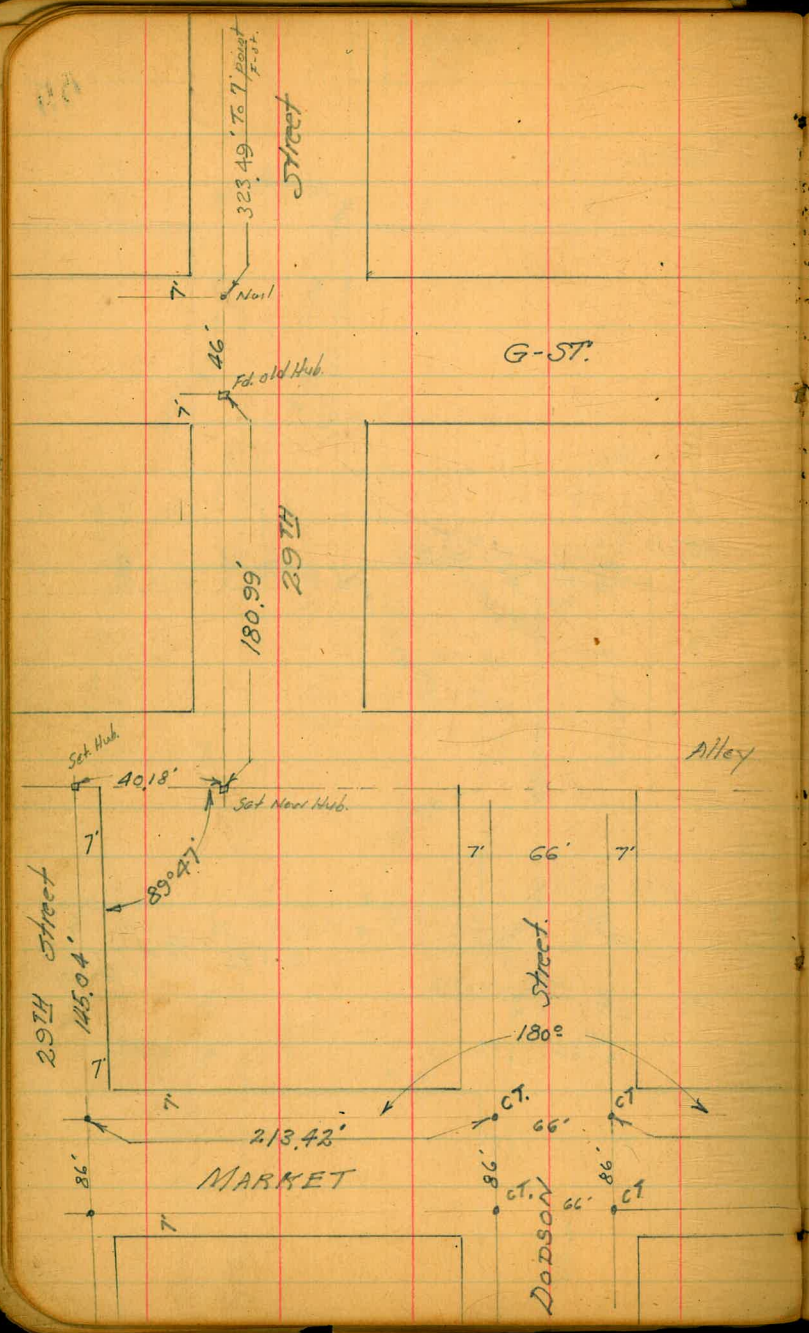
also see sketch in front of book.

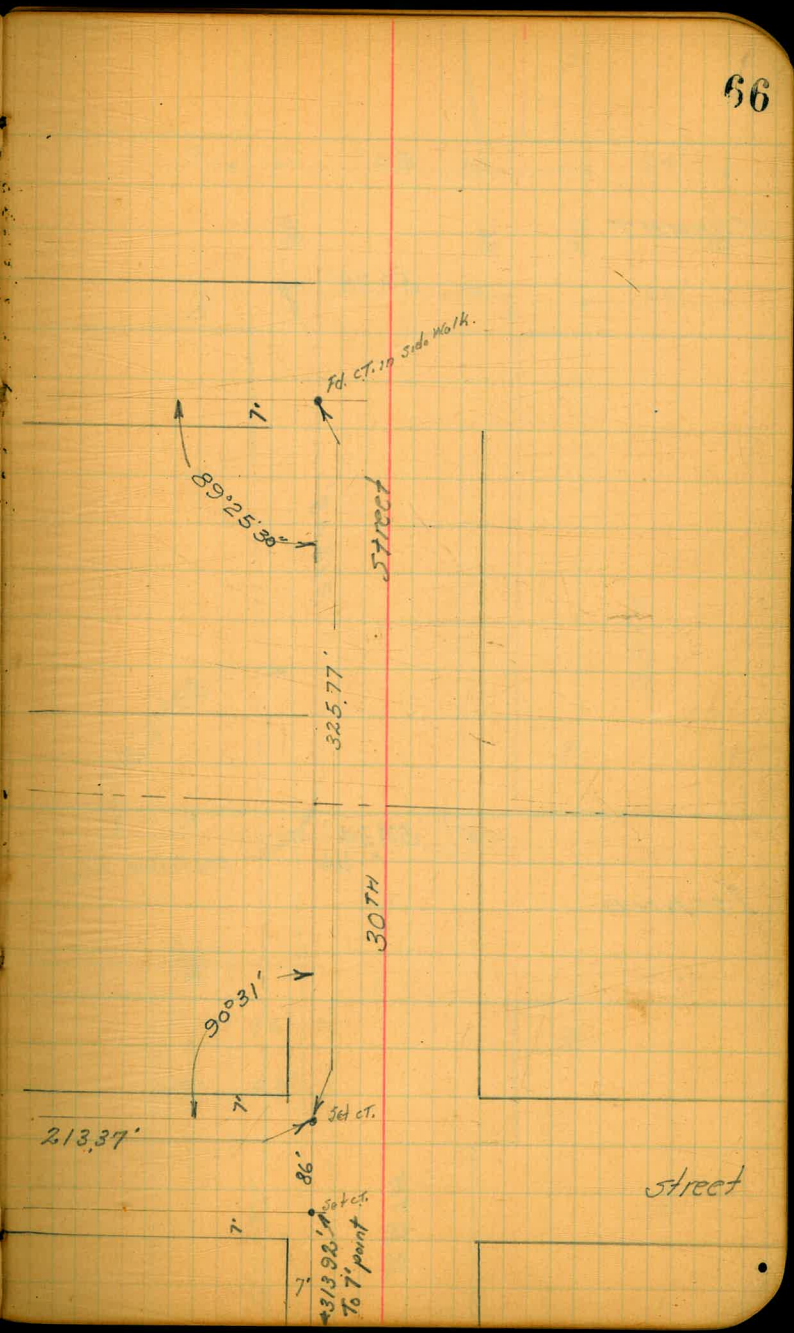


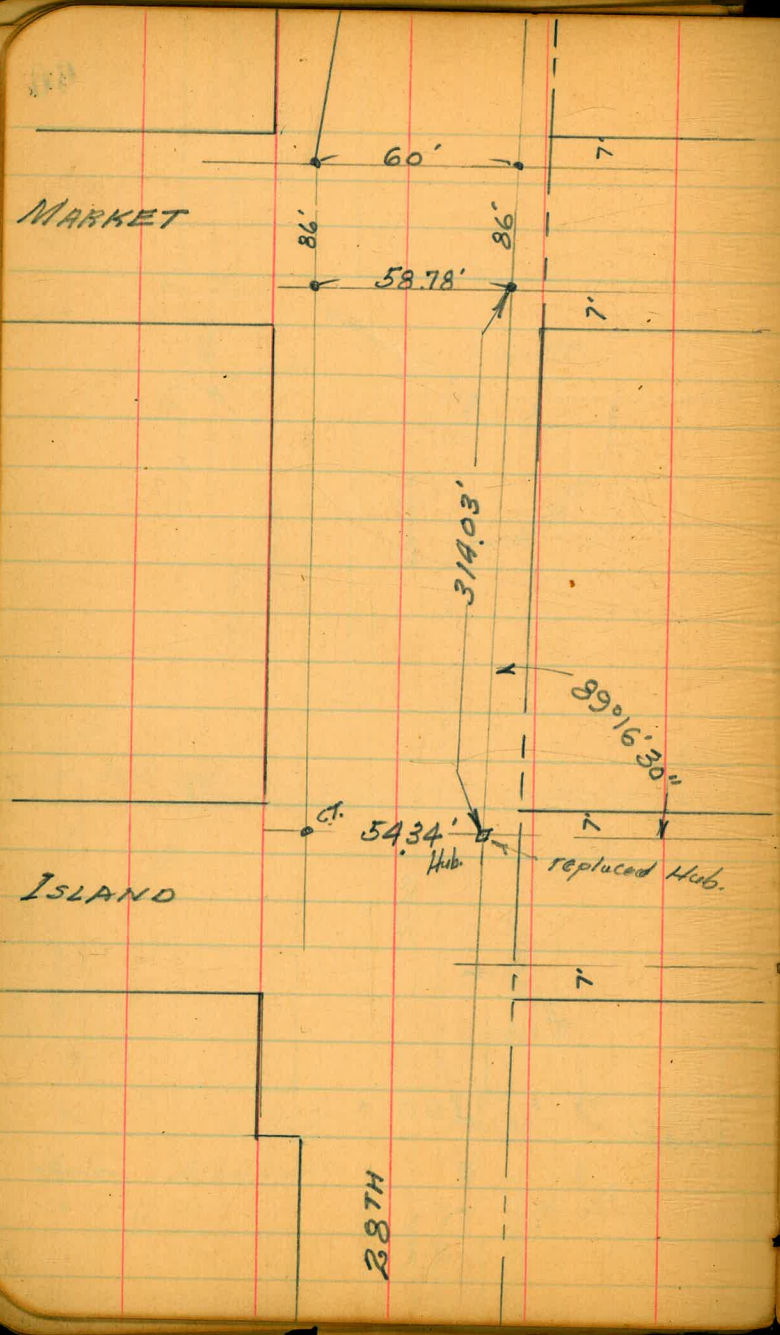

Tie Points
Walker
Bliss
Isbell
Feb-1940
G - Street
Ties Plotted 2-17-40
C.S.K.
C.T.
17'
43'
246.92'
C.T. in Paving.
See Page 56
90°01'30"
187.38'
89°31'30"
658.56'
Pueblo Line
C.T.
Fd. C.T.
MARKET
27TH
28TH
C.T.s
Fd.
P.L.
Prop. Line
3°01'30"
161.05
99°11'
82°10'30"
180°
46.76'
206.29'
7.04'
83°47'30"
88°43'30"
89°55'
Fd. Con. Mon.
4' deep
153.38'
153.06'
90°45'30"
89°14'30"
60.00'
61.57
P.O.T.
C.T.
171.85'
86.00'
86.00'
89°14'30"
58.78'
90°42'30"
To N.E. 7' Hub
Island Ave
314.03'

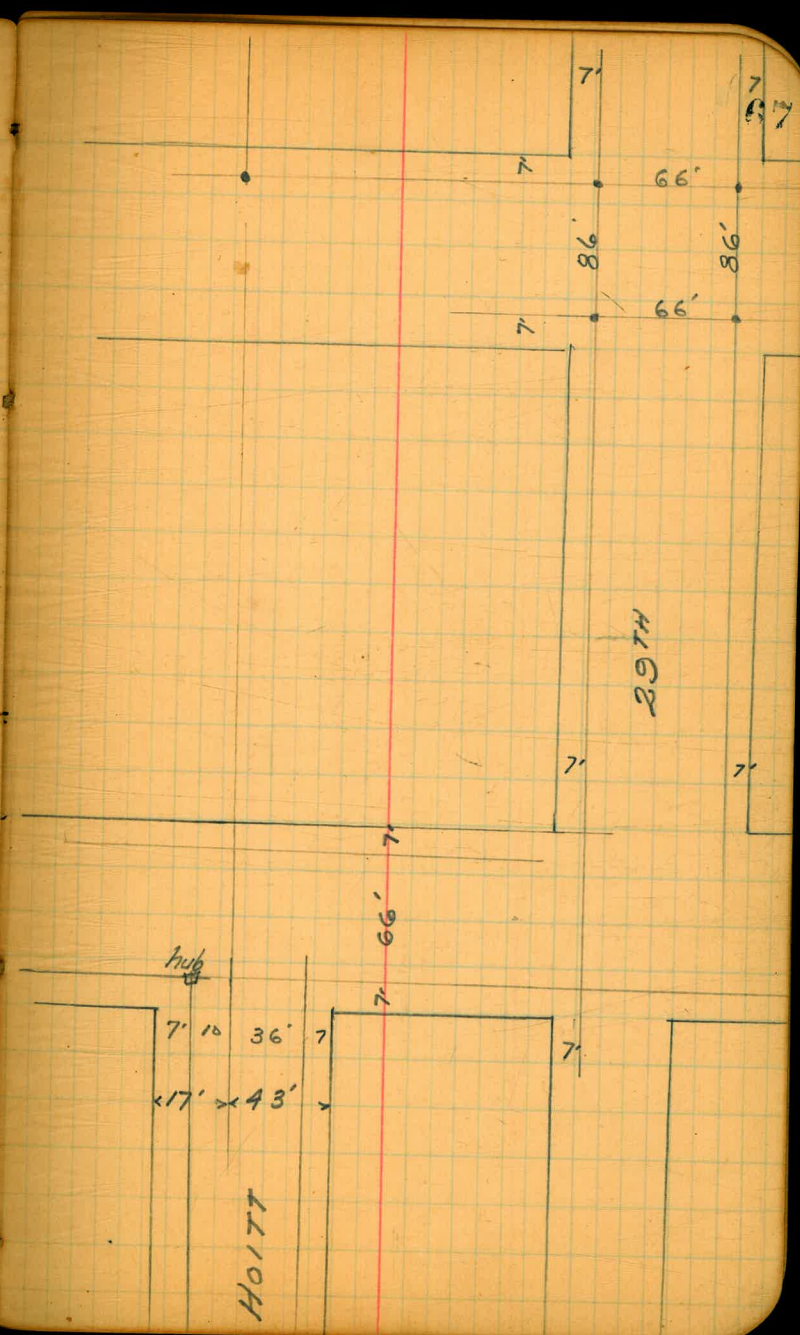

Indexed
C.S.K.
G- Street
Fd. Hubs.
Prop. Line
Tie Lines
set Hub.
old Hub.
Fd. Hub
Set New hub.
226.29'
206.29
Pueblo Cor.
Fd. Con. Mon.
4' deep. Left in and
Set New Mon over top
of Same
Elev. old Mon = 110.80
Elev. New Mon. = 114.26
90°08'30"
89°51'30"
149.75'
153.38'
153.06'
90°41'
27'
53'
60'
61.57'
233.42'
259.50'
MARKET
58.78'
314.03'
28TH
161.05'
157.09'
8°45'
8°39'
7.04'
3°01'30"
7'
86'


Ties plotted
2-17-40
C.S.K.
Fd. Hub.
180.99'
325.19'
Fd 20
Fd. hubs
Set New hub.
40.18'
set hub.
89°47'
145.04'
89°23'
90°38'
213.42' To W 7' tack at Dodson
89°22'
66'
29TH
7'
86'


323.49' To 7' point
Street
7'
Nail
46'
Fd. old Hub.
G-ST.
7'
29TH
180.99'
Alley
Set Hub.
40.18'
Set New Hub.
7'
89°47'
7'
66'
7'
29TH Street
145.04'
Street
180°
7'
CT.
CT.
213.42'
66'
86'
MARKET
86'
CT.
CT.
86'
66'
7'
DODSON


Fd. CT. in side Walk.
7'
89°25'30"
Street
325.77'
30TH
90°31'
7'
Set CT.
213.37'
86'
Set CT.
7'
313.92' To 7' point
7'
Street


MARKET
60'
7'
86'
86'
58.78'
7'
314.03'
89°16'30"
C.T.
54.34'
Hub.
replaced Hub.
7'
ISLAND
7'
28TH


67
7'
7'
66'
86'
86'
7'
66'
29TH
7'
7'
7'
66'
7'
hub
7' to 36' 7
17' 43'
7'
HOITT

	287h		
A – NW BP			206.98
B – SE BP	OUT		196.96
C – NE BP		old 175.98	176.05
I – SW BP			98.03
K – NE BP			85.96
Ground NW BP			51.00

48.05
40.4

Langley

239.4
210

K { 155.5
162.5
156.5

474.5

318.0

X 998

67.02
9.80
62.22

67.02
53.32
13.70

335.

300.35
80.00
264.04
644.39

644.4 : 327.35 :: 13.7 : x

53.32
6.96
60.28
6.00
54.28

327.35
13.

327.35
13

72.1 S L I 5th

327.35
137
229145
98205
32735
644.4) 4484695 | 6.96
38664
61829
57996
38330

~~63.00~~
390.06

76.0
72.1
4.0

80.00
390.06
208.96
679.02

679.02 : ~~208.06~~ 208.96 :: 4 : x

208.96
4
879.02) 835.840 | 1.23
679.02
156.820
135.804
210160
13706

76.10
1.23
74.87 at H 13'8.

80

279.29
837.87
226.29
1064.16

1064) 15.24 | 1432.33
1064
4600
4250
3440
3192
2480
2128
3520
3192
3281

.01432.33
226.29
1289077
286466
857398
286466
286466
3.241219557

317.04
53
264.04

380.03
103
277.03

163.96
216.03
379.99

208.96
3.24
205.72

643.15
383.05
260.10

208.96
193.72
15.24

188.67
194.36
383.03
103
280.03
15
2) 265
132.5

265.03
27
2) 238.03
119.02

Lots 1-4-Blk 13

279.29
558.58
226.29
784.87

208.96
11.24
197.72

.01432.33
784.87
1002631
1145864
572932
1145864
1002631
11.241928.491

17
53
70

240.54
70
170.54

383.03
27
2) 356.03
15
2) 341.00

383.03
130.00
253.03
15
2) 238.03
119.02

32

119.02
119.02
27.00
15.00
280.04
43.00
323.04
285.04
38.04

280
135
28
31
41
25
25
285

633
27.0
36.3

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Mr. Blair

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	$51\frac{1}{3}$	42	98
3	7	23	$53\frac{2}{3}$	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

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