9

TRANSIT

F. B. 14

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	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the links to be added to a chain on the slopes, to make one chain, horizontal measure

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor
°		°		°		°	
4	0·24	11	1·88	18	5·14	25	
5	0·38	12	2·24	19	5·76	26	
6	0·55	13	2·63	20	6·42	27	
7	0·76	14	3·06	21	7·11	28	
8	0·98	15	3·53	22	7·85	29	
9	1·24	16	4·02	23	8·64	30	
10	1·55	17	4·56	24	9·47	35	

Return to City Engineers Office
City Hall, San Diego, Cal.
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14

Return to City Engineers Office
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1

Page

Line for Poles for Ele.
Light Co from 20th
& H to C & 24th

7+80 south of F Street

6+53.2

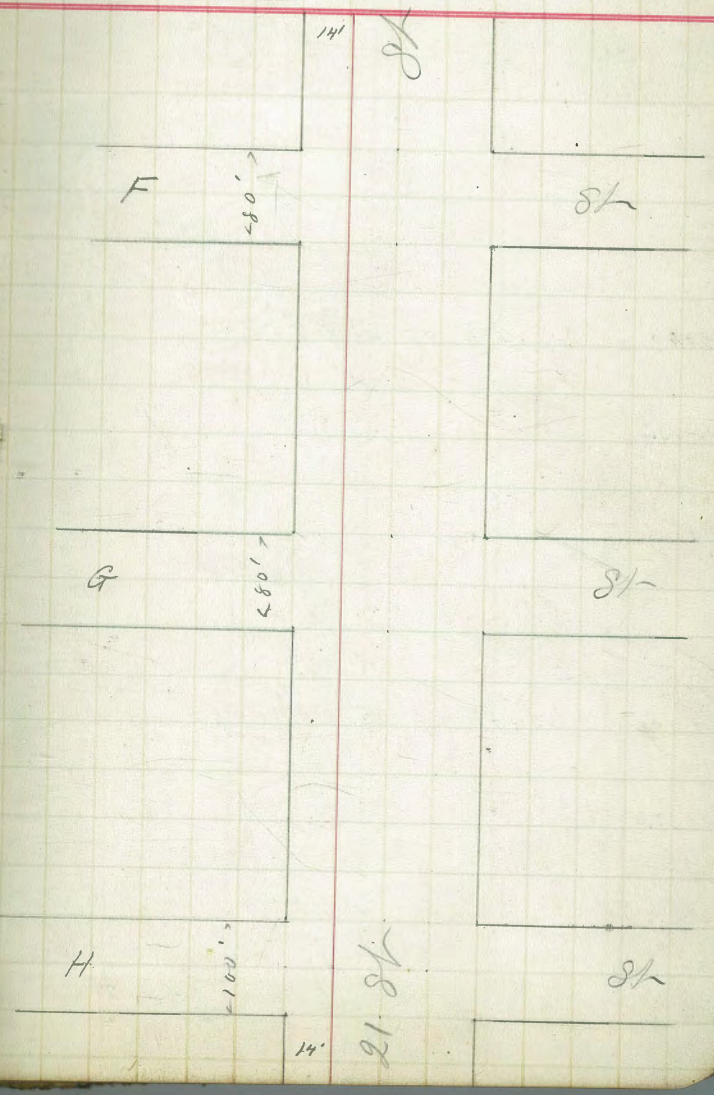
5+26.6 south of

4 south of G St

2+66.6

1+33.3

0 south line of H. St



16+66.6

15+40 south of D Street

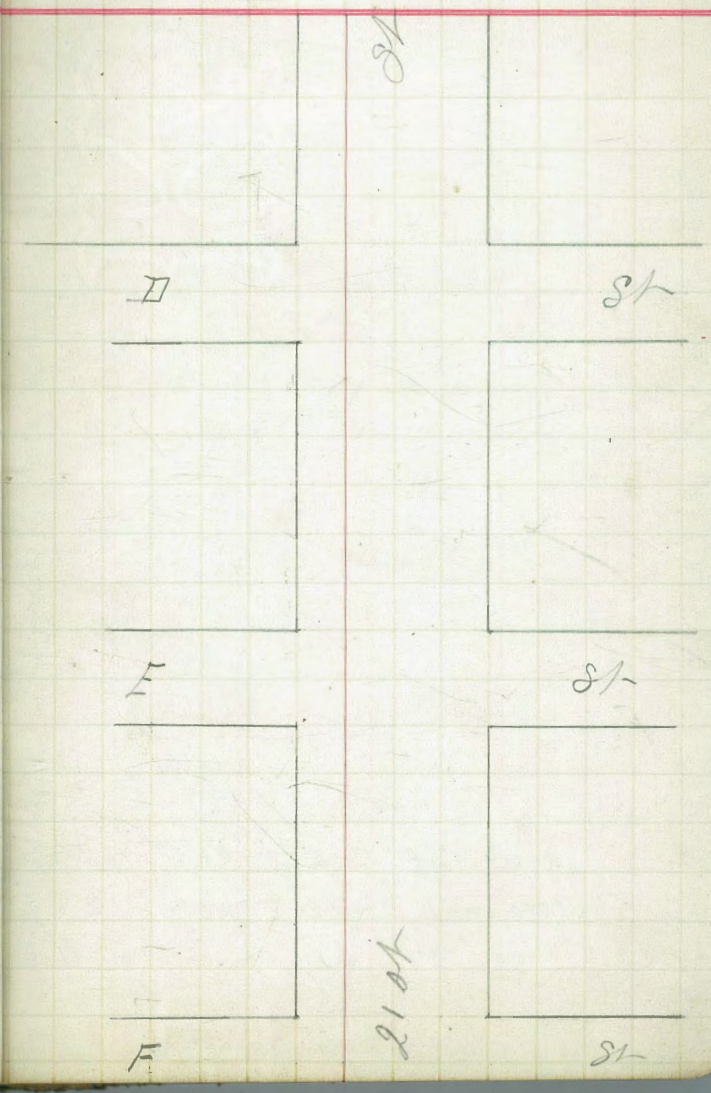
14+03.3

12+86.6

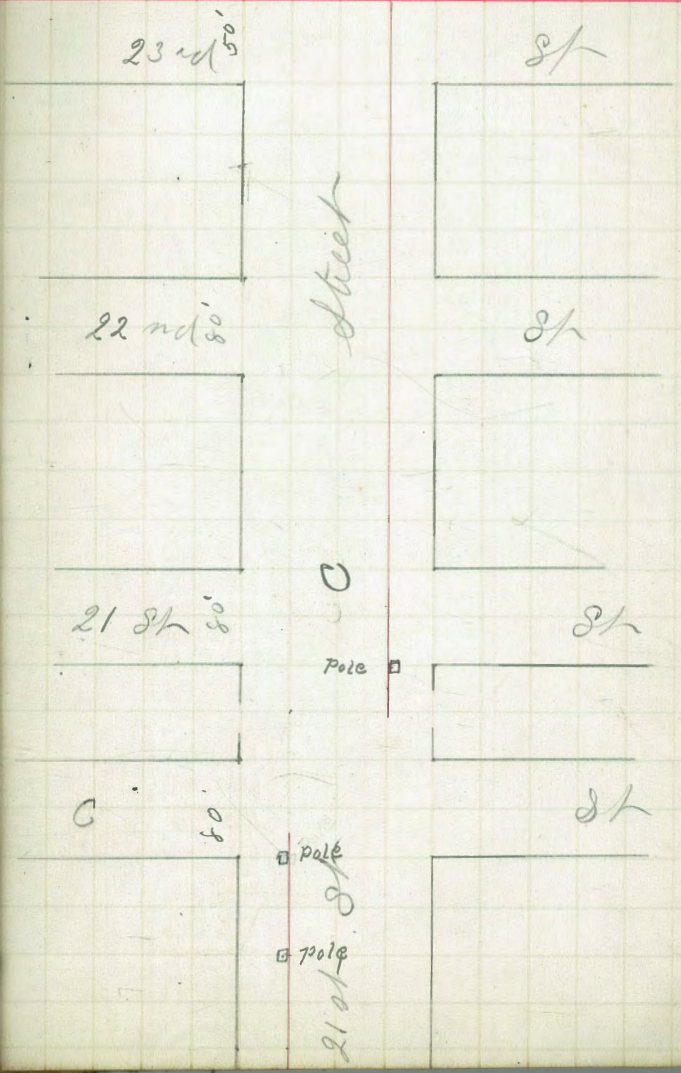
11+60 south of E Street

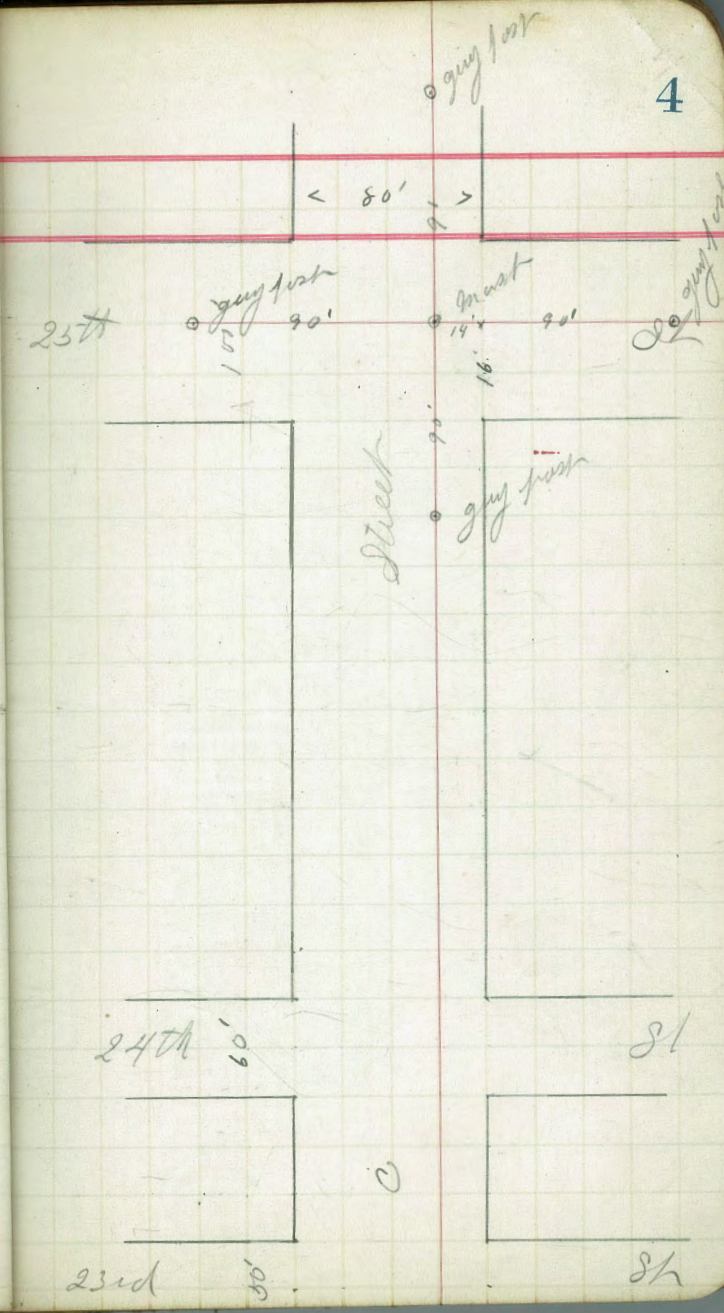
10+33.3

9+06.6



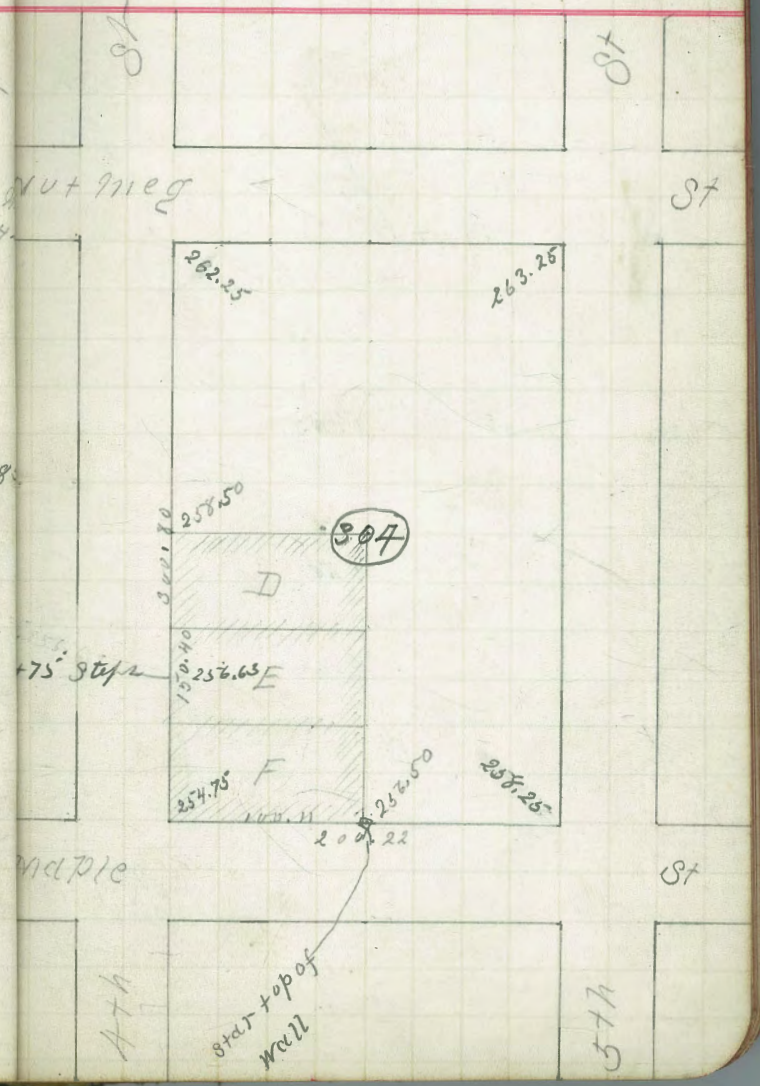
19+20	South of C Street offset to south curb line on C St	
17+93.3		




guy post
< 80' >
9'
guy post
mast
guy post
23th
90'
14'
90'
S2
16'
90'
Street
guy post
24th
60'
S1
C
23rd
50'
S2

Oct 4 1890 Hamlin { Orton, William, Ketchum

Sta	+	HI	Grade	Rod	Elev
Liner & grader for wall at lots D.E.& F Blk. HA for E.W. Butt					
	0.70	259.12			5th & [illegible] 258.4[illegible]
			256.50	2.62 ✓ .87	
			255.63	3.49 ✓ .88	
			254.75	4.37 ✓ 1.88	
			256.63	2.49 ✓	
4th & Map BM #	5.78	260.63		4.27	254.8[illegible]
			256.63	4.00 ✓	
			258.50	2.13 ✓	



Road North of Mission Valley

Oct 10 1890

Hamlin
Oxton
William
Hemsley

Sta	Hor Angle	Vert Angle	d	Centre Wire	Elev
Begining at S.E. cor of 1231 ran South 13° 45' E					
0	⊙	-1° 18'	8.60		
8+60	⊙	+0° 45'	3.43		
	⊙	+0° 10'	3.48		
	⊙	0° 0'	5.65		

South of corner

From Sta 8+60 B.S. to cor

Bottom of corner 0.96 -18° 0'

N Side of corner 2.15 -1° 51

Road North of Mission Valley

Sta	Hor Angle	Vert Angle	9	centre Wire	Elev	
Beginning at			N.W.	12 / 4	Run	
North		N 14°	0' W.			
0		+0° 31'	5.34			
5+33.2						
11+12.4		+0° 30'	5.76			
15+02.6		+0° 40'	3.89			
17+83.8		-0° 20'	2.80 ✓			S side of Common
18+70.2		-1° 0'	0.97	5.0	25'	Bottom of Common
19+96.8		-1° 30'	2.12			N side of Common
26+47.4		+1° 30'	8.63			SE cor 1231

See page 14

Road North of Mission Valley

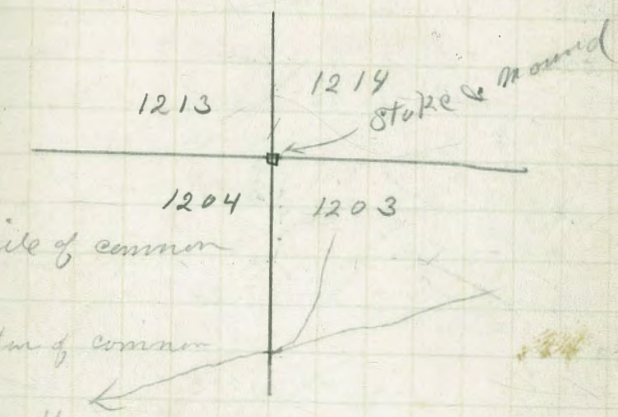
Sta	Hor Angle	Vert Angle	9	Centre Wire	Elev	
Beginning at NW 1214 & SW 1219 Run South						
0						
3+24.2		-0° 30'	3.23	8.0		N side of cannon
5+37.4		11° 0'	2.20	10.1	36.0'	Bottom of cannon
7+03.4		0° 0'	3.78	4.9		South side of cannon
9+04.4		+0° 30'	5.79			
11+25.4		-1° 30	2.20	6.1		N side of cannon
13+25.4		-17° 15'	2.07	2.0	54.0	Bottom of cannon
14+14.5		-9° 30'	2.96	2.5	46.2	Bottom of cannon
16+05.6		-0° 24'	4.79	3.3		South of cannon
16+72.6		+0° 30'	5.46			
21+96.8		0° 0'	5.23	4.5		

See page 14

Road North of Mission Valley

Sta	Hor Angle	Vert Angle	a	Centre Wire	Elev	
22+16.8'		to N side of cannon				
23+84		-19° 45'	2.10	6.0	68.0	Bottom of cannon
25+88		-0° 15'	3.90	4.0		S side of cannon
26+44		0° 0'	4.56			
26+44	cor 0	+0° 30'	5.04			
505.2		-1° 0'	1.94	5.0		N side of cannon
7+26.2		-16° 05'	2.38	6.2	60.0	Bottom of cannon
4+34.2		-0° 15'	4.04	3.0		South of cannon
7+21.4		-0° 15'	2.86			
8+95.4		-2° 0'	1.73	3.9		N of cannon
9+74		-21° 30'	0.89	2.5	30.0	Bottom of cannon

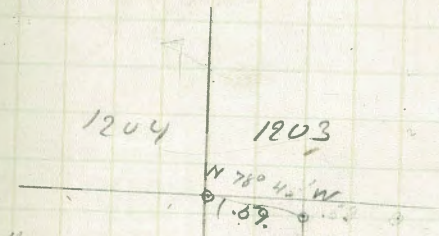
See Page 14



Road North of Mission Valley

Sta	Hor Angle	Vert Angle	a	Center Wire	Elev
10+78.6		-0° 30'	1.82	3.0	
14+07.6		+0° 30'	5.11		
19+89.6		-0° 20'	3.81	Top corner	
		-18° 40'	2.83	3.4	
		0° 0'	4.98		
		-0° 30'	7.24		
		+0° 10'	11.02		
	S19° 30' W				
	19° 30' R		3.78		
	cor rel				

N of corner



Bottom of corner

1297 1298

S of of corner

corner

Road North of Mission Valley

Sta	Hor Angle	Vert Angle	q	centre Axis	El
7+8					
6+3					
5+2					
4					
2					
1					

Road North of Mission Valley

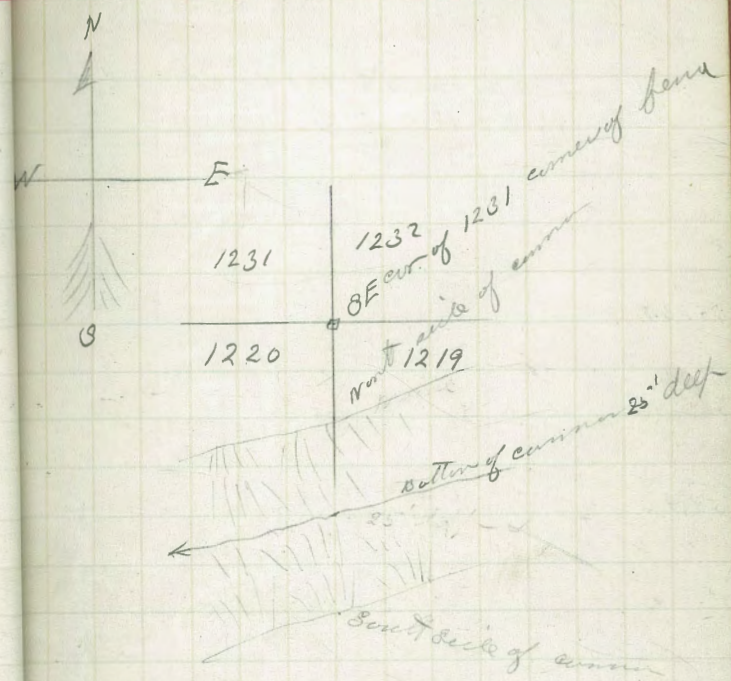
Sta	Hor Angle	Vert Angle	a	Centre Wire	Ele

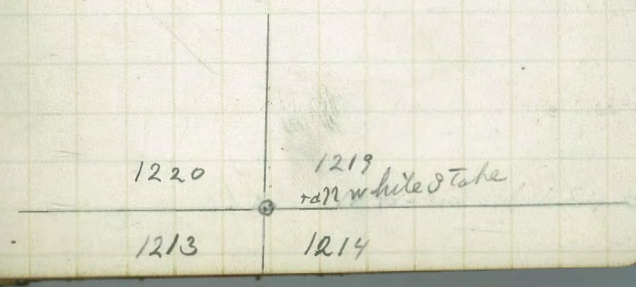
Road North of Missouri Valley

Sta	Hor Angle	Vert Angle	g.	center Wire	El.

Road North of Missouri Valley

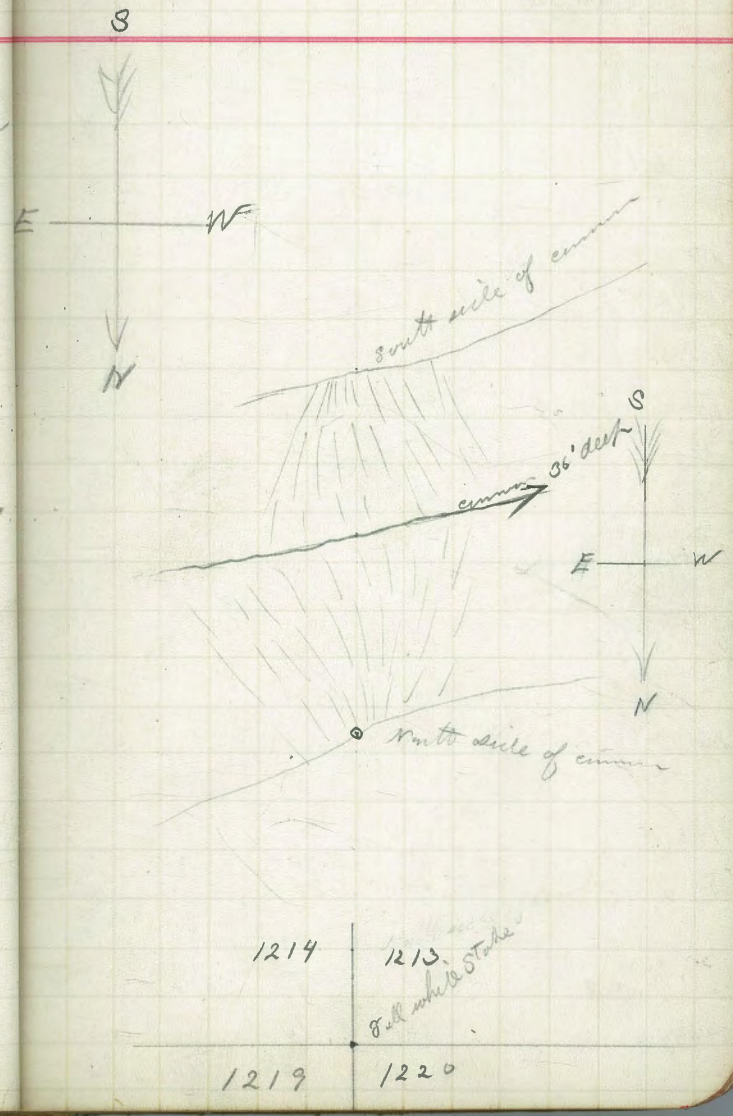
Sta	Hor Angle	Vert Angle	a	Centre Wire	E
Line bet		1219 & 1220			
26+47.4					
19+96.8		1° 30'	8.63		
18+70.2		-1° 30'	2.12		
17+83.8		-19° 0'	0.97		
15+02.6		-0° 30	2.80		
11+12.4		+0° 40	3.89		
5+35.2		+0° 30'	5.76		
0		+0° 31'	5.34		





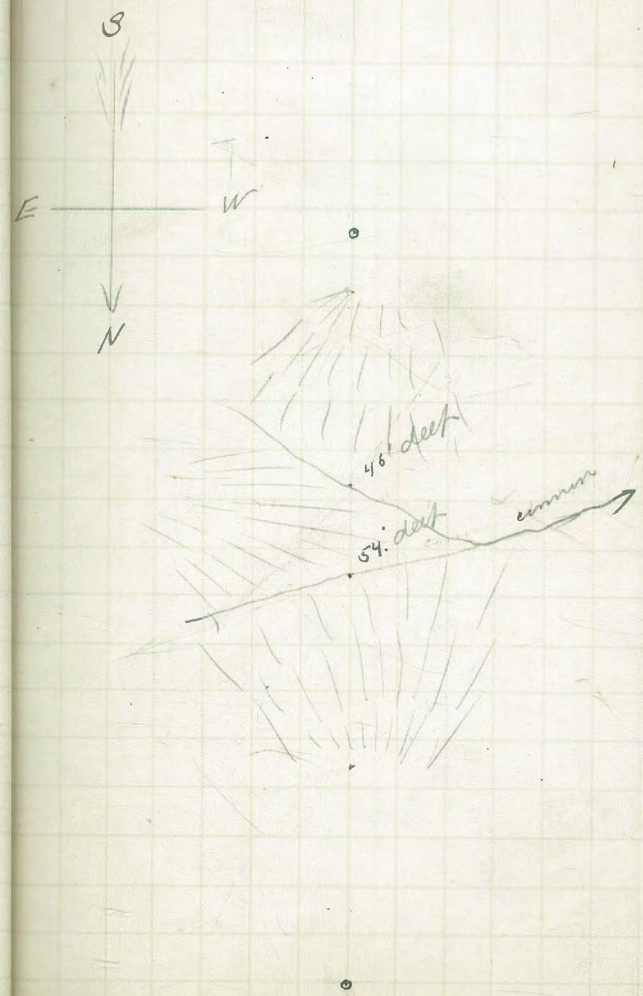
Road N of Mission Valley

Sta	Hor. Angle	Vert. Angle	a	Centre Wire	Ele
South from common cor of 1219, 1220, 1213 & 1214 along bu bet 1213 & 1214					
8					
7+03.8					
6					
5+37.4					
4		+0° 30'	5.79		
		0° 0'	3.78		
1.3+24.2	⊙	-11° 0'	2.20	10.1	36
2					
1					
0		-0° 30'	3.23		



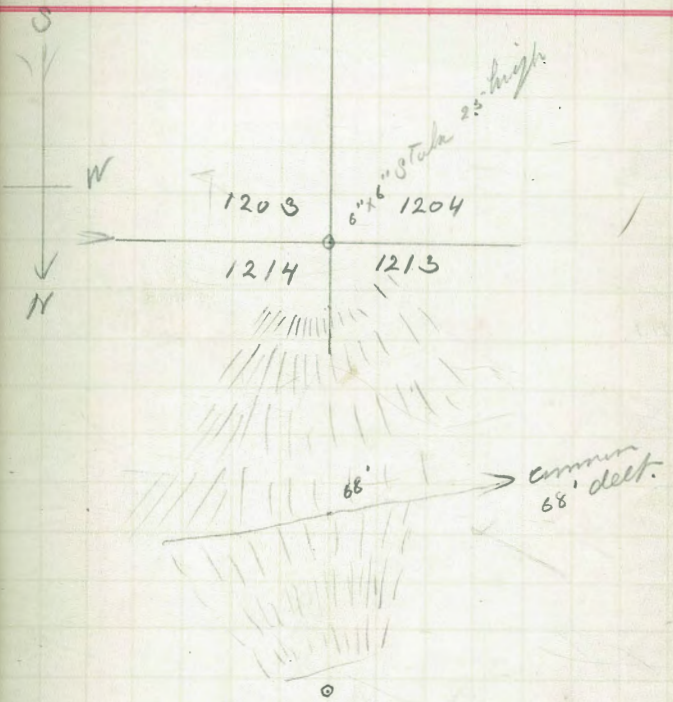
Road N of Mission Valley

Sta	Hor Angle	Vert Angle	a	Centre Wire	Elev
18					
17					
16+72.6		0° 0'	5.23		
16+05.6					
15					
14+14.5					
13+25.4					
12					
11+25.4					
		+ 0° 30'	5.46		
		− 0° 24'	4.79		
10		− 9° 30'	2.96	2.5	46.2
1		− 17° 15'	2.07	2.0	54
9+044		− 1° 30'	2.20		



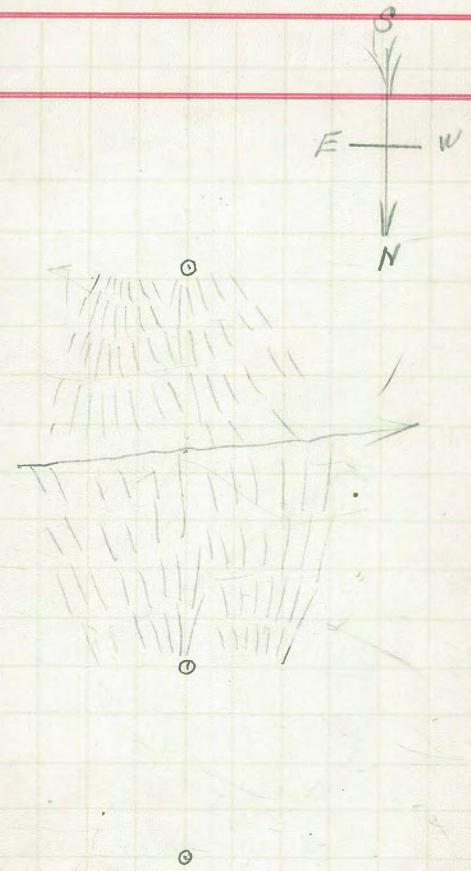
Road N of Missouri Valley

26+44	0 corner	+ 0° 30'	5.04		
25+88		0° 0'	4.56		
25					
24					
23+84					
22					
22+16		- 0° 15'	3.90		
21+96.8		-19° 45'	2.10	6.0	68.0
20					
19					



Road N of Missouri Valley

12					
11 +05.2		-0° 15'	2.86		
10					
+21.1					60.0
9					
8					
		-0° 15'	4.04		
7+00.2		-16° 05'	2.38	6.2	
6					
5+05.2		-1° 0'	1.94		

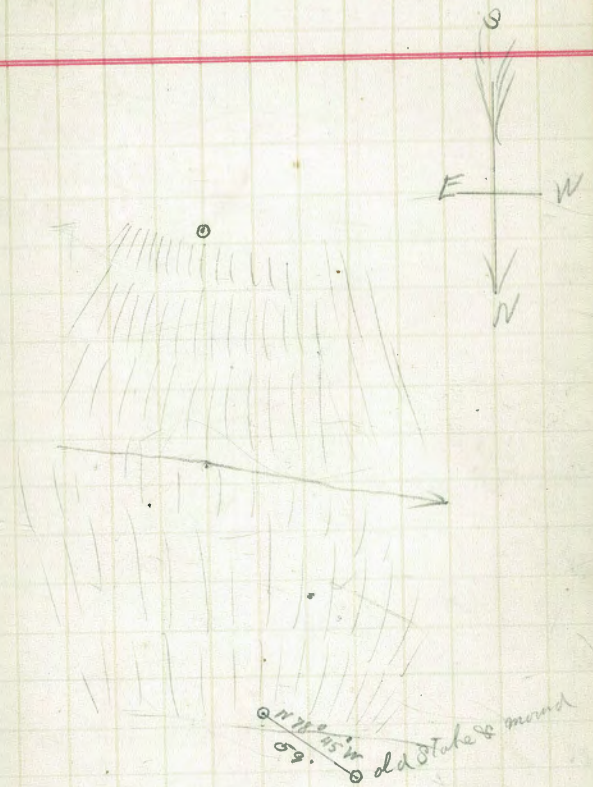


Road N of Dussin Valley

22					
21					
+78.6		-0° 20'	5.81		
20					
19					
18					
+49.6					
17					
+45.2		+ 0° 30	5.11		30.0
16		- 0° 30'	1.82		
+66.4		-21° 30'	0.89	2.5'	
15					
14					
+92.4		-2° 0'	1.73		
13					

Road N of Mission Valley

32					
+60		-0° 30'	7.24		
31					
30					
+16.0					85.0
29					
28					
27		0° 0'	4.98	3.4	
+60.8		-18° 40'	2.83		
26					
25					
24					
23					

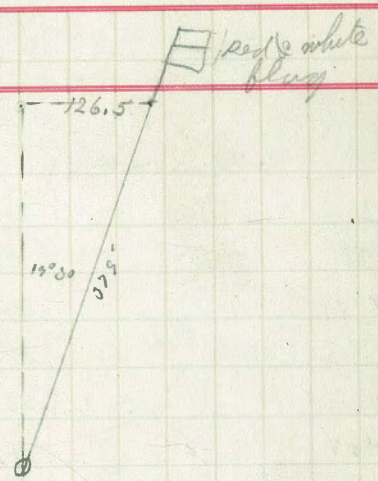


Road N of Mission Valley

42					
41					
40					
39					
+85.2		+0° 10'	11.02		
38					
37					
36					
35					
34					
33					

Road N of Missin Valley

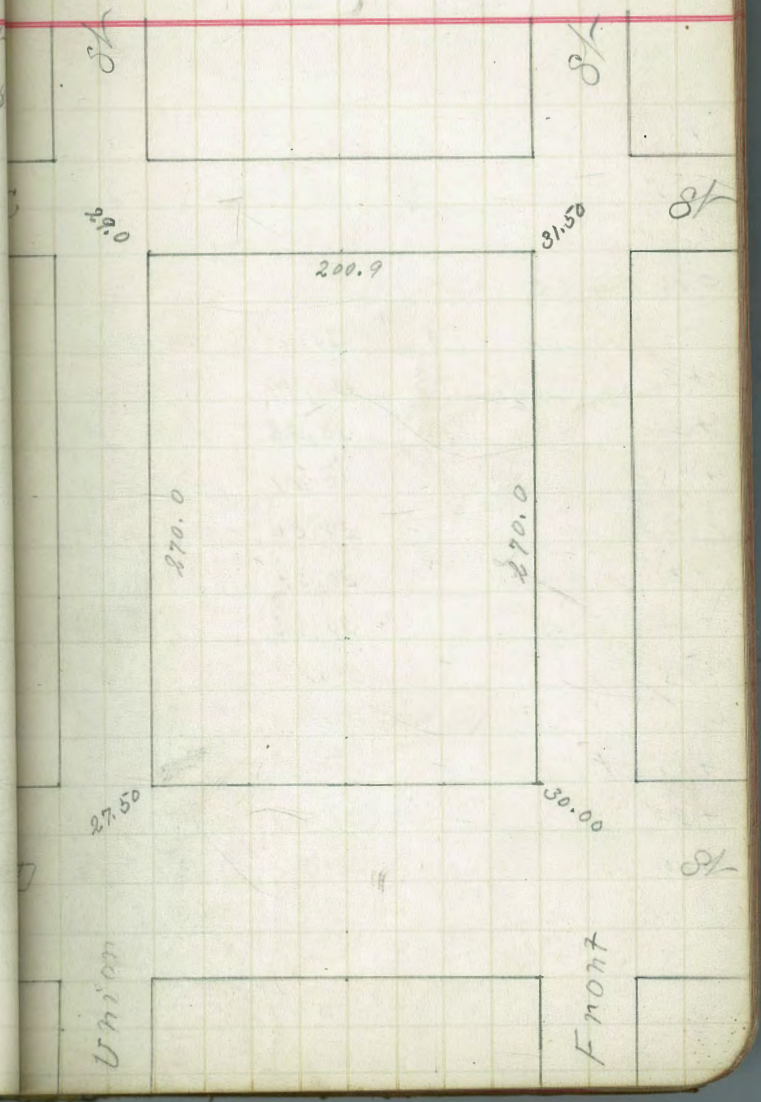
+46.8					
53					
52					
51					
50					
+88.4	19° 30' R	0° 0'	3.78		
49					
48					
47					
46					
45					
44					
43					



Curb lines & grades for court House block

Oct 15 1890

Sta	+	HI	Grade	Rod	Ele
				Wmin & C St	
BM	3.43	32.21			28.78
0			27.50	4.71 .14	✓
+25			27.64	4.57 .14	✓
+50			27.78	4.43 .14	✓
+75			27.92	4.29 .14	✓
1			28.06	4.15 .13	✓
+25			28.19	4.02 .14	✓
+50			28.33	3.88 .14	✓
+75			28.47	3.74 .14	✓
2			28.61	3.60 .14	✓
+25			28.75	3.46 .14	✓
+50			28.89	3.32 .11	✓
+70			29.00	3.21	✓
BM	Wmin & Ob St			5.20	27.
0					
+25					
+50					
+75					
1					
+25					



Grade for court House

Sta	+	HI	Grade	Rod	Elev	
+50						
+75						
2						West of Main
BM	4.23	36.37			32.1	
0			30.00	6.37	✓	South of 2d St
+25			30.14	6.23 (.14)	✓	
+50			30.28	6.09 (.14)	✓	
+75			30.42	5.95 (.14)	✓	
1			30.56	5.81 (.14)	✓	
+25			30.69	5.68 (.13)	✓	
+50			30.83	5.54 (.14)	✓	
+75			30.97	5.40 (.14)	✓	
2			31.11	5.26 (.14)	✓	
+25			31.25	5.12 (.14)	✓	
+50			31.39	4.98 (.14)	✓	
+70			31.50	4.87 (.11)	✓	South of C St
BM				2.76	33.1	Front & C St

Hamlin & Party Oct 20

+	HI	-	Elev	Grade	cut
Survey of Lot 8 and the E					
of Lot 7 Blk 6 Centerville					
for — John Ruddemann					
# 0.02	48.51		48.49	B.M.	17 A & 2
# 2.89	43.60	7.80	40.71		
		3.14	40.46	B.M.	15 + F
		5.15	38.45	46.30	− 7.7' 10 1/4"
		5.27	38.33	45.85	− 7.7' 6 1/4"

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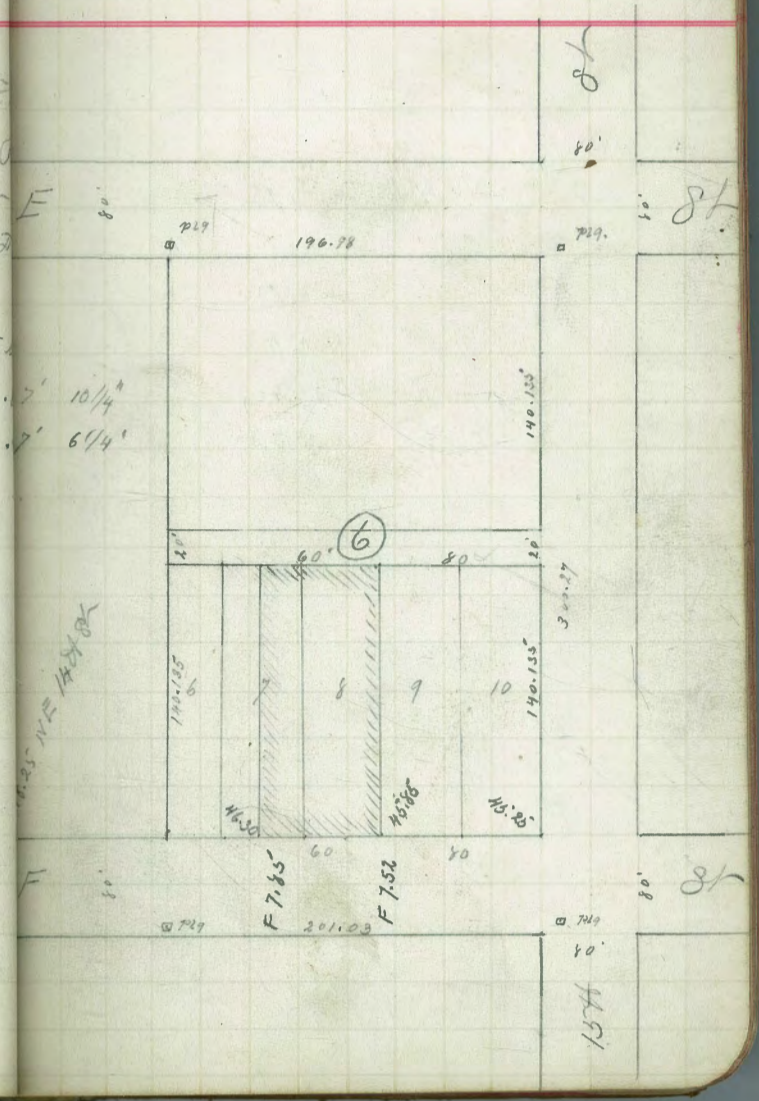
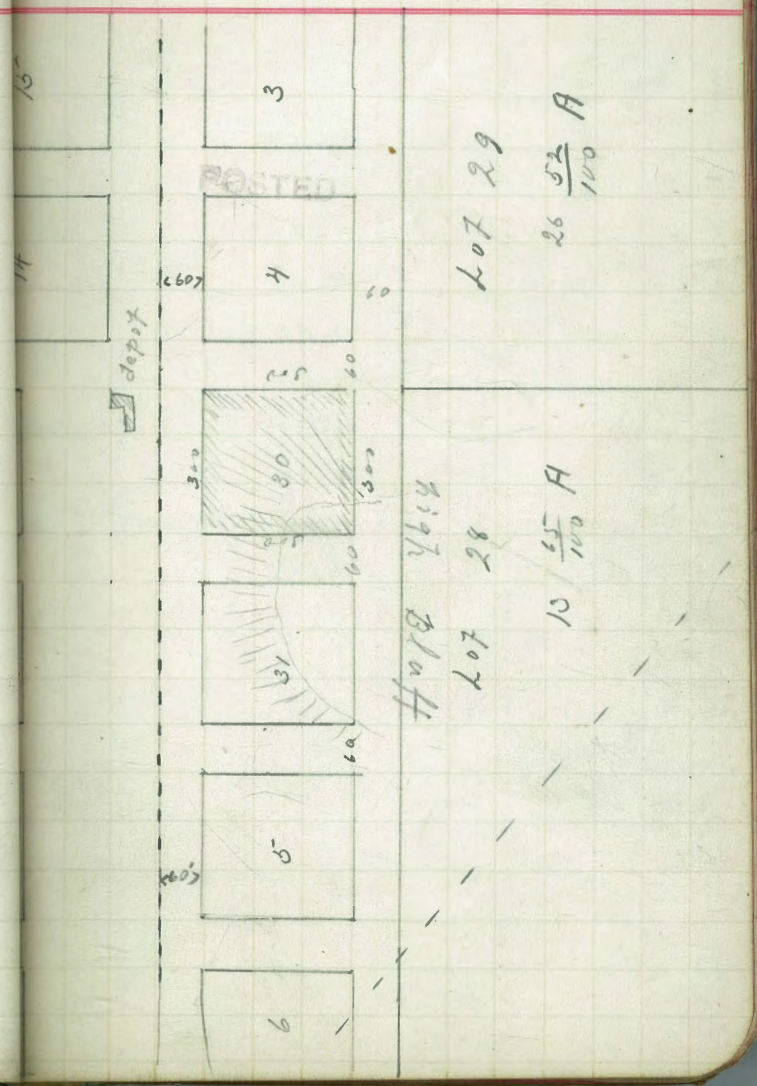


Survey of Blk 30 in Serrent
town side for Board of Educ

POSTED



Curb grades on S.W. side
Logan Ave bet 16th & S. 21st

Sta	+	HI	Grade	Rod	Elev.
0			9.00		
+50			9.33		
1			9.66		
+50			10.00		
2			11.33		
+50			11.64		
3			12.29		
+50			14.88		
4			16.83		
+50			19.75		

On N.E. Side
Logan 28.50
300' N.W. 12.00
480 N.W. 11.00

S.E. Line of Logan Ave

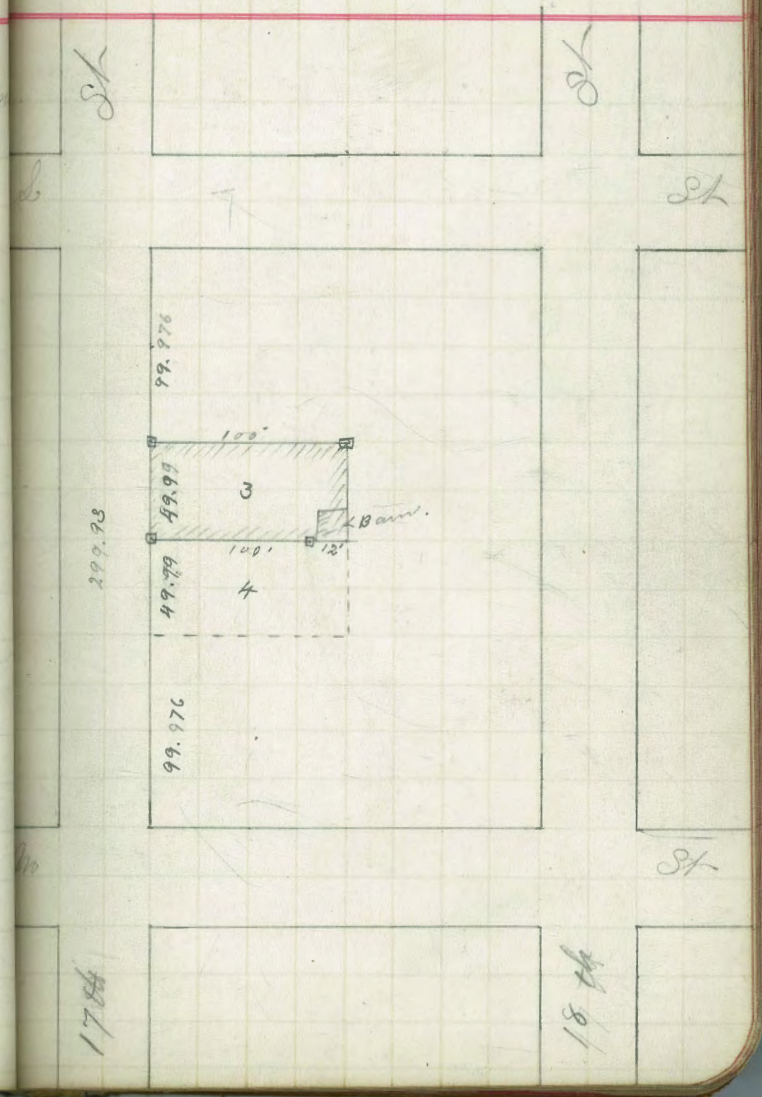
B.C. of vertical curve 10.66
Break in grade 11.00
13.92
E.C. of vertical curve

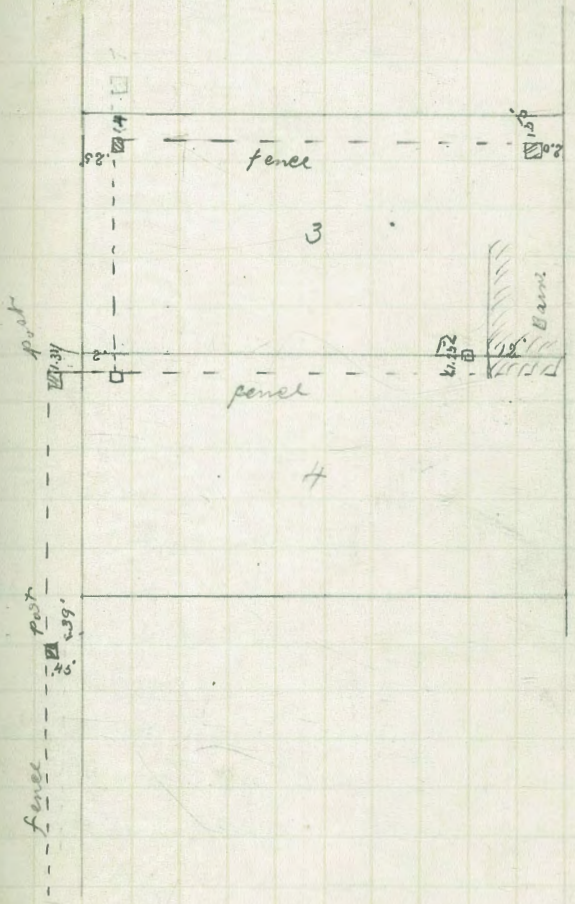
Curb grades on Logan
Ave bet 20 & 21st. St

Sta	+	HI	Grade	Rod	Ele	
B.M.	1.58	15.90			14.3	16th & M
B.M.				2.95	12.9	20th & Logan
0			9.00	6.90 ✓		S of S 20th St
7+50			9.33	6.57 ✓		
1			9.67	6.23 ✓		
1+50			10.00	5.90 ✓		
2			10.33	5.57 ✓		
2+50			10.67	5.23 ✓		" " 11.28
3			11.00	4.90 ✓		Set St 12.25
3+50			13.92	1.98 ✓		" " 14.53 old Stake
4 #	10.67	25.20	16.83	1.37	14.	
4+50			19.75	5.45		
5 #	10.57	33.26	22.67	2.51 2.53	22.6	
5+50						
6						
B.M.				1.45	31.8	21st & Logan

Survey for Mrs Plant

Survey of Lot 3 Blk 51 Sherm
Add
Nov. 11th 1890
Hamlin
Oleton
Williams
Hemsley




fence
3
Barn
post
fence
4
post
fence

Bot diam from South line of K St 4th St to Water Front

Sta	+	HI	-	Elev	Grade	Cut	
Begining at a point one South line of K St 6' west of Bush curb B.S. up 4th St parallel to curb, reversed, angle to left of 12°20' thence,							
B.M.	3.17	6.62		3.45			
0			5.75	0.87	-1.4	2.29	2' 3 5/8" Tack in pavement 6' W of curb
+25			5.24	1.38	-1.6	3.00	3'
+50			5.00	1.62	-1.8	3.44	3 5 1/4"
+75			5.14	1.48	-2.0	3.50	3' 6"
1			5.44	1.18	-2.2	3.40	3 4 3/4
+25			5.62	1.00	-2.4	3.42	3' 5"
+50			5.68	0.94	-2.6	3.56	3 6 3/4"
+75			5.60	1.02	-2.8	3.84	3 10 1/8"
2			5.65	0.97	-3.0	3.99	3 11 7/8"
+25			5.67	0.95	-3.2	4.17	4' 2"
+50			5.84	0.78	-3.4	4.20	4 2 3/8"
+75			6.64	-0.02	-3.6	3.60	3 7 1/4" edge of Bank
#	6.96	9.05	4.53	2.09			
B.M.			2.88	6.17			6th & J

Bot	1'	2"	
top "		2"	Cutter grade
Rail		3"	= 0.75
ties		6"	
	1	13	2.17
			.25
	2	1	1.42
		1	
	2'	2" =	2.17

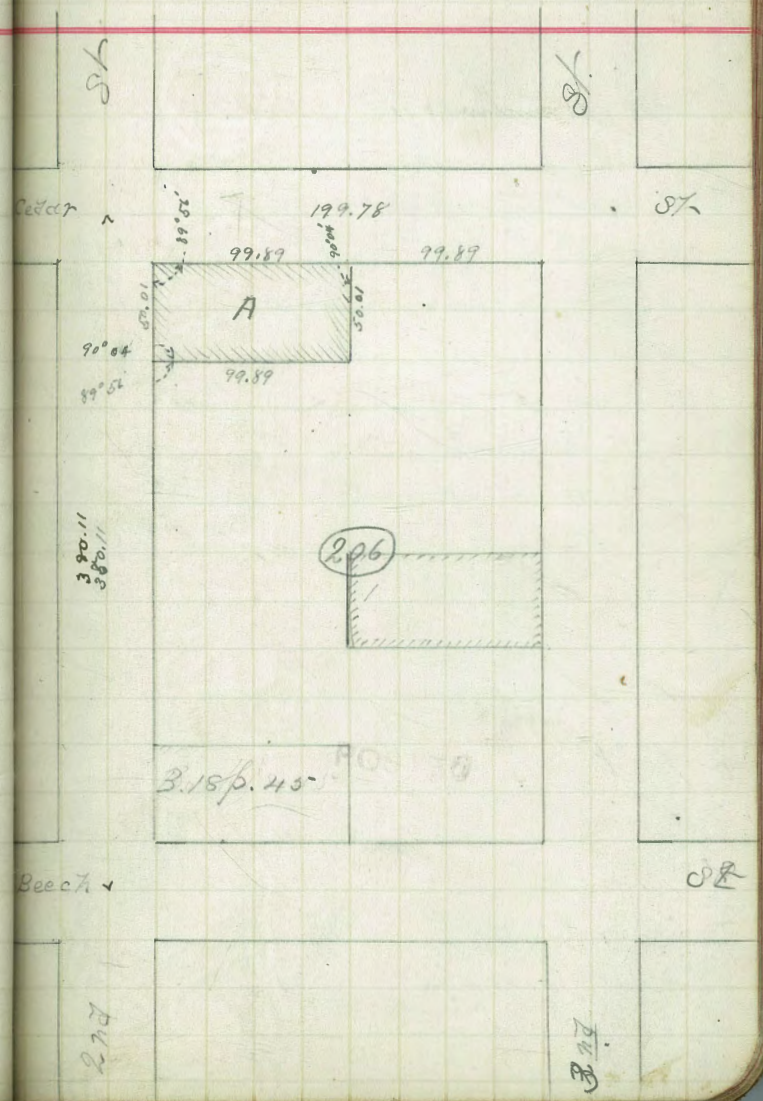
Survey of Lot A Blk 206

Horton Add B. Macready

Nov. 13 1890

Hamlin { Cotton / Williams / Hemsley

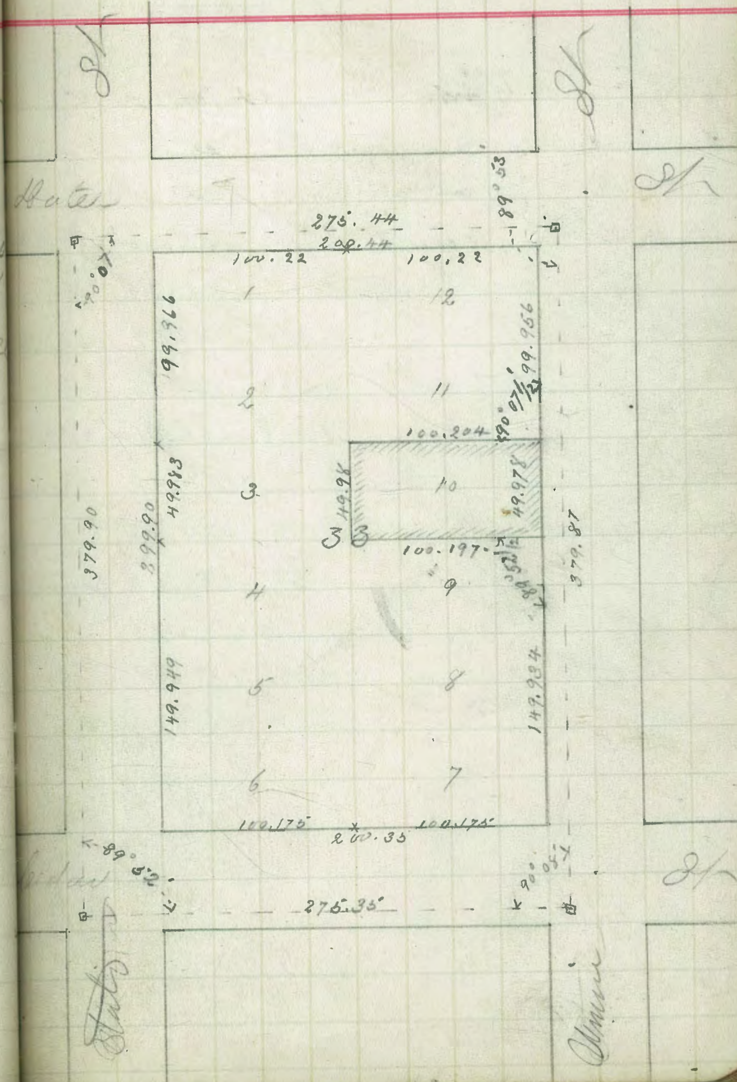
See also Book 18. p. 45.



Survey of Lot 10 blk 33
Middletown for H. M. Ketchum

Nov 19 1890

Set a point 1' East of N W cor
of lot, was unable to set the
corner on account of shed
The fence on south is on Lot 10
2.10' feet on front and 1.9 on back
Set a point 1' East of S W cor fence
in way.
Hamlin Transit
Alton chain
Williams "
Hemsley "



Grades for sewer on 16th St North

Sta	+	HI	–	Elev	Elev.			
BM	9.59	85.54		75.95				16th & B
#	10.32	95.33	0.53	85.01				
#	9.91	105.02	0.22	95.11				
#	10.17	115.19	0.0	105.02				
3			3.90	111.29	104.0	7.29	7' 8"	South of 17 St
+40			1.50	113.69	106.50	7.10	7' 1"	
#	10.62	125.50	0.31	114.88				
0			9.49	116.01	109.0	7.01	7'	
+50			5.28	120.22	116.0	4.22	4' 2"	
#	3.40	127.94	0.96	124.54	116.0	8.54		
1			1.50	126.44	123.0	3.44	3' 5"	
#	0.10	116.31	11.73	116.21				
	1.77	106.43	11.65	104.66				
BM			5.69	100.74		15th & A		

grader for Lateral Sewer
on C St bet 15th & 16th

Sta	+	HI	D-	Elev	Grade			
B M	0.35	82.46		82.11				15th & C
0+60#	1.30	72.62	11.14	71.32	67.75	3.57	3' 8"	
1			4.37	68.25	64.25	4.00	4' 0"	
+50			7.74	64.88	59.88	5.00	5' 0"	
#	4.33	65.19	11.76	60.86				
2			5.94	59.25	55.50	3.75	3' 9"	West of 16th St
B.M.			4.36	60.71 60.83				16th & C

Survey of lots 7 & 9 Blk A
Estudillo Add. for
Sisters of Charity Hospital

No charge made

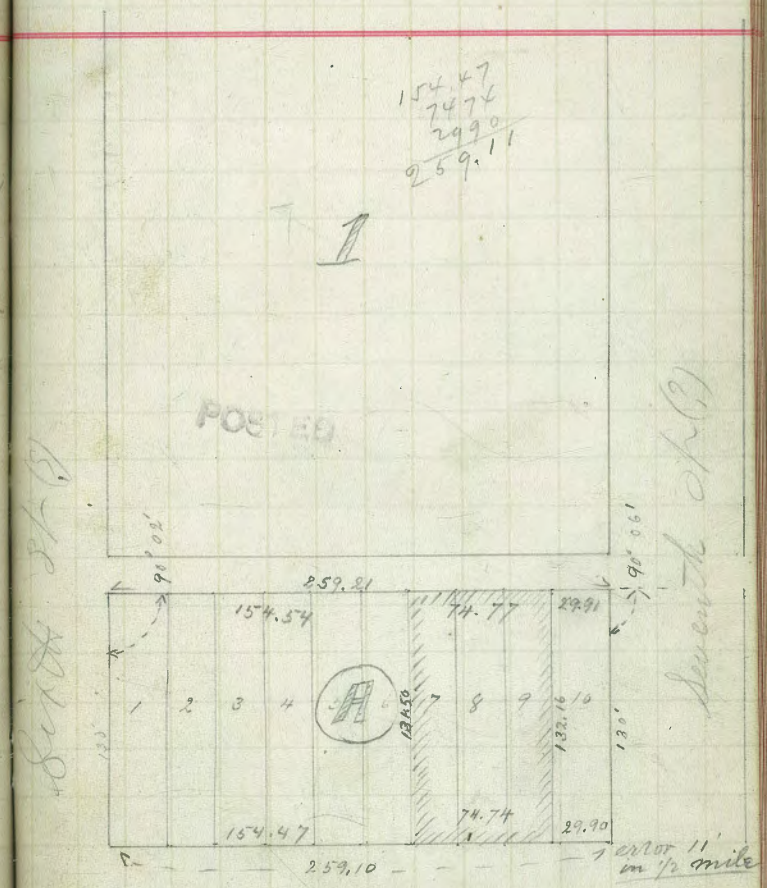
The original depth of this block was 130'

Moved East line 2.16 south and West line 1.50 South, to make Univ Ave 75' wide along North of Crittenden

See Plat of Esdudillo's B 10.

POSTED

Dec 29 1890



University Ave

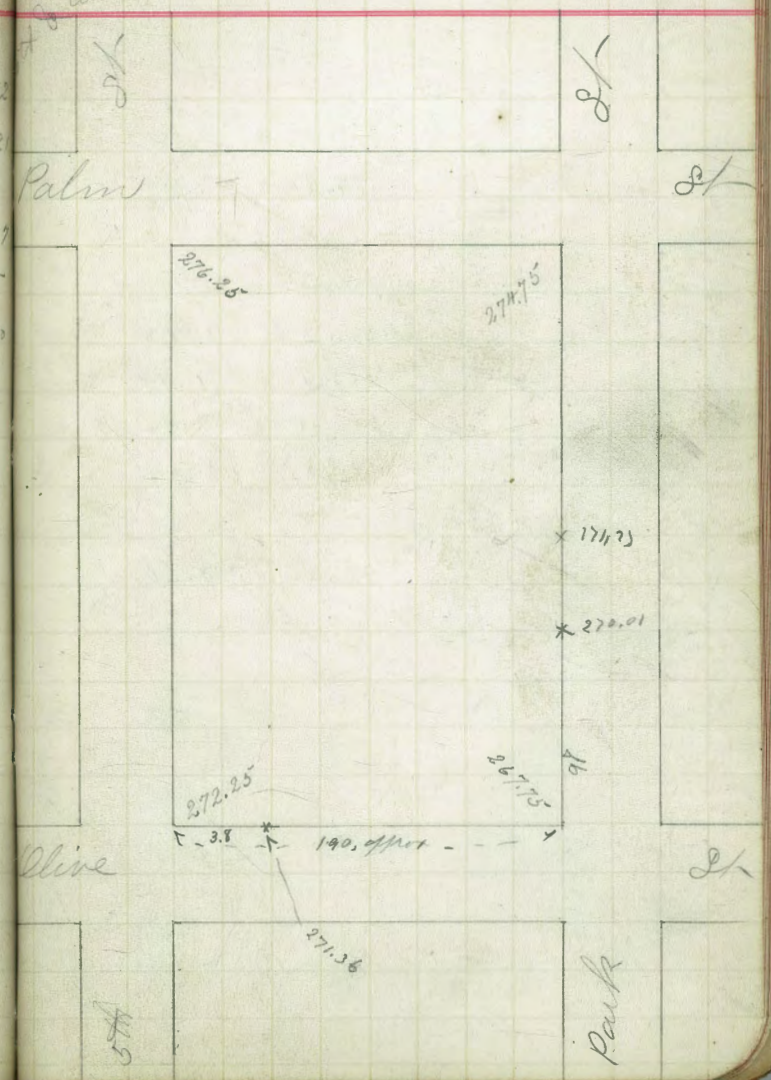
Crittenden Add.

Jan 3 1891

Hamlin & Partly

Grades for Heating Residence in Blk bet Olive and Palm and bet 5th and Park

Sta	+	HI	Grade	Rod	Elev.
B.M.	8.02	279.24			271.22
				2.03	277.21
0 + 38	center of gate		271.36	7.88	
				3.97	275.27
				4.39	274.85
In front of House.			4.60	274.54	4.63
			274.47	4.77	
			274.22	5.02	
			273.97	5.27	
0			274.68	4.56	
			274.89	4.35	
			274.83	4.41	
			274.65	4.59 (.18)	
			274.47	4.77 (.18)	
			274.93	4.31	
			274.76	4.48 (.17)	
			274.51	4.73	
			274.21	5.03 (.30)	
			273.86	5.38	



Sta	+	HI	Grade	Rod	
		279.24			
			273.46	5.78	
			272.96	6.28	✓
			272.36	6.88	✓
			271.66	7.58	✓
			271.36	7.88	
			267.75 ✓	11.49	
			271.25 ✓	7.99	
			272.25	6.99	
B.M.	3.40	280.61		2.03	277.
			276.25	4.36	

10615-E
TIERRASANTA
BLVD.

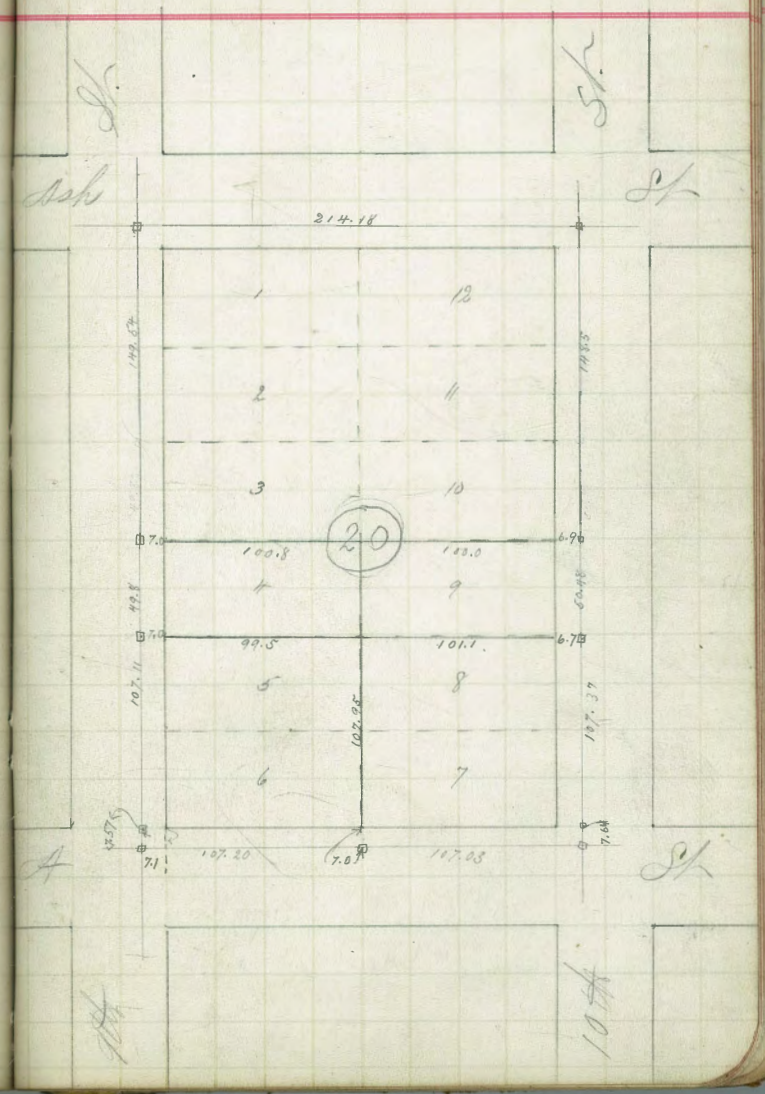
1-858-573-5000

Sta	+	HI	Scale	Rod	
		279.24			
			273.46	5.78	
			272.96	6.28	✓
			272.36	6.88	✓
			271.66	7.58	✓
			271.36	7.88	
			267.75 ✓	11.49	
			271.25 ✓	7.99	
			272.25	6.99	
B.M.	3.40	280.61		2.03	277.21 SH & Dalm
			276.25	4.36	

Jan 6 1891

Hamlin { Arthur Williams Hemsley

Sketch showing fence lines in Blk 20 Carathers Additions



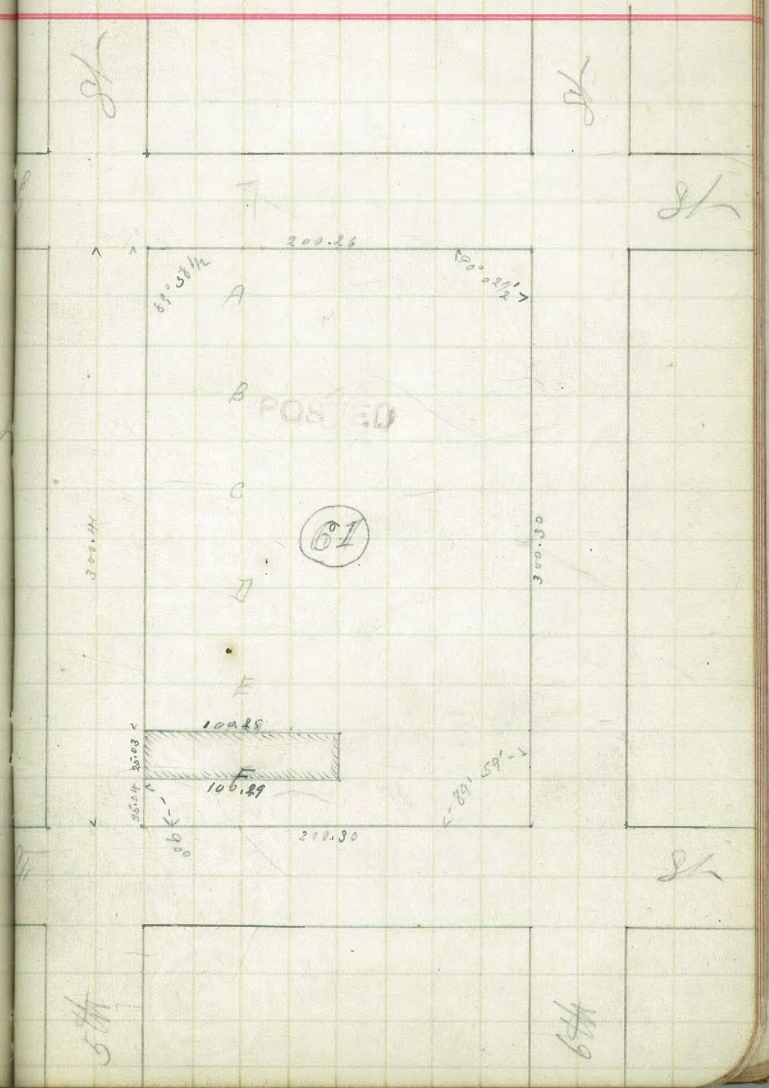
Jan 7 1891

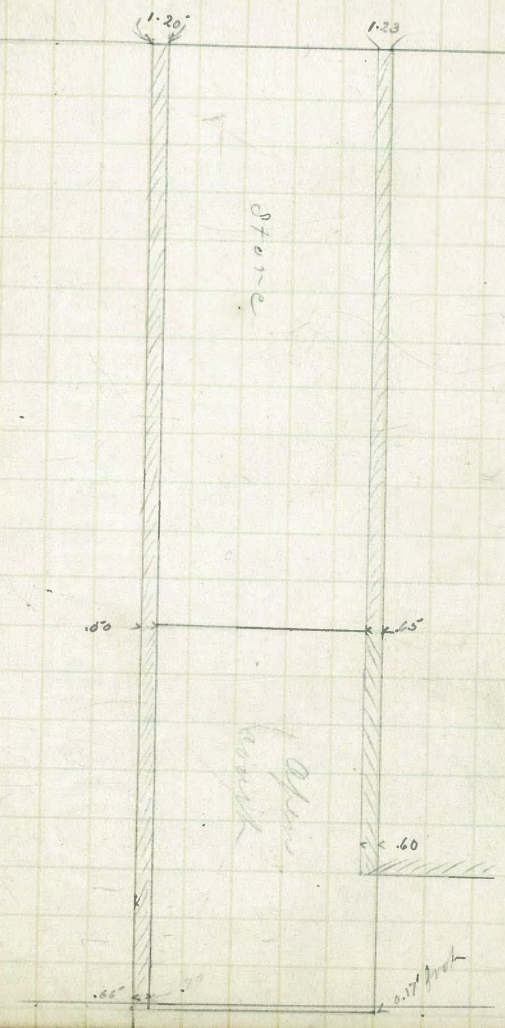
Survey of N½ of Lot F Blk 61
Hortons Add
Ordered by H.C. Gordon

On North line of lot set NW cor 1' west of true corner and NE cor 2' West of true corner
On South line set S.W. cor 1' West of true cor and set SE cor 2' west and 2' north of true point

Hamlin
Orton
Williams
Hemsley.

POSTED




1.20
1.23
.60
.66

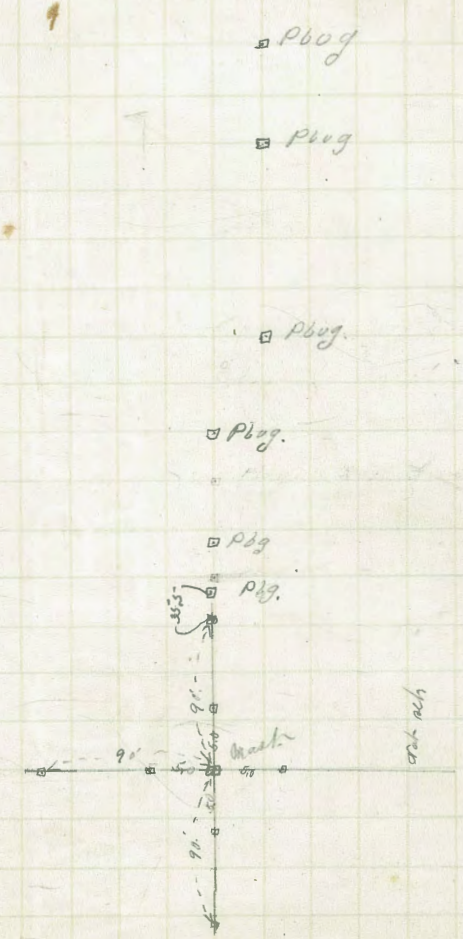
Points for Elec. Mast on Arctic & H Sts and lines for Poles from Mast to 2nd & H.

Jan 10 1891

Hamlin Transit
Williams } chain
Hemsley }
Ortom - Stake

2	West of State
+62.5	
0	East of Columbia
2	West of Columbia
+62.5	
0	East of India
2	West of India
+62.5	
0	East of Arctic
+12 =	Intersection of curb line on SW cor of Arctic & Mast
2+0 =	West line of Arctic St

set points on curb line on South side of H St



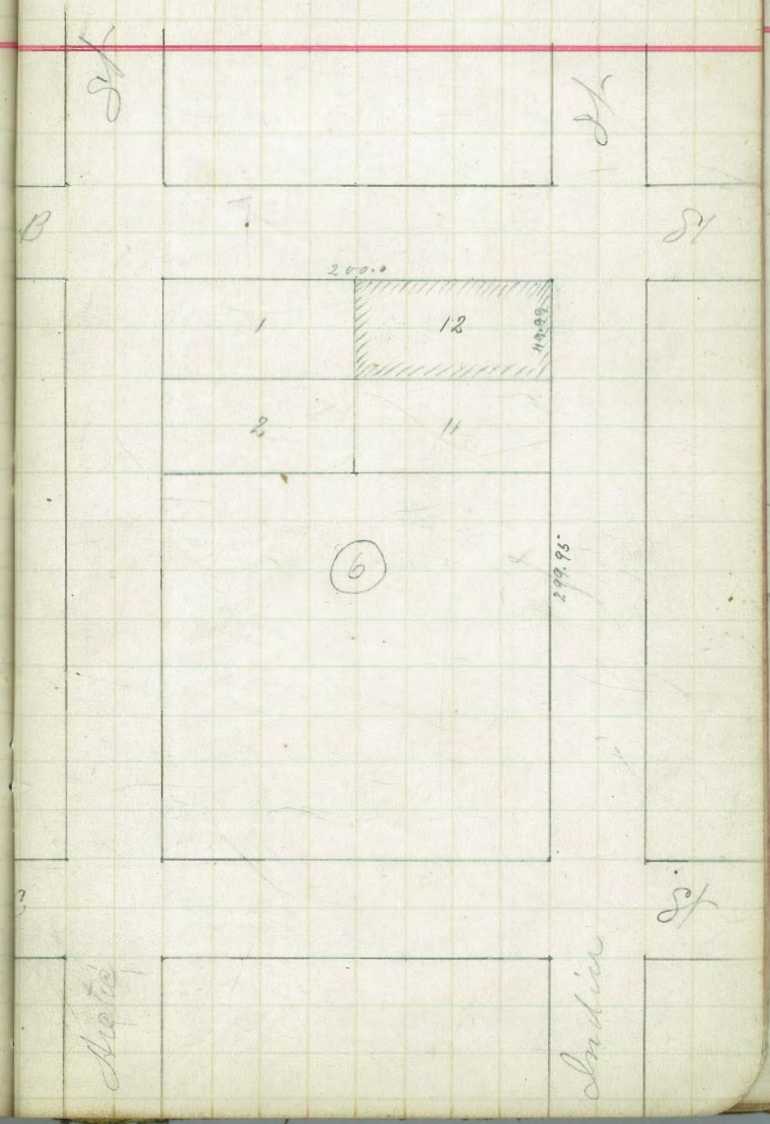
2+0	West of 2nd St	Plug
+60		Plug
0	East of 1st St	
2	West of 1st St	
+57		Plug.
0 57	East of Front St	
2	West of Front	Plug.
+62.5		Plug.
0	East of Union St	
2	West of Union St	Plug.
+62.5		Plug
0	East of State	

Jan 10 1891

Hamlin Transit
Williams } Chain
Hemsley }
Orton Stake

Survey of lot 12 Blk 6 in
Middle town ~~Add~~

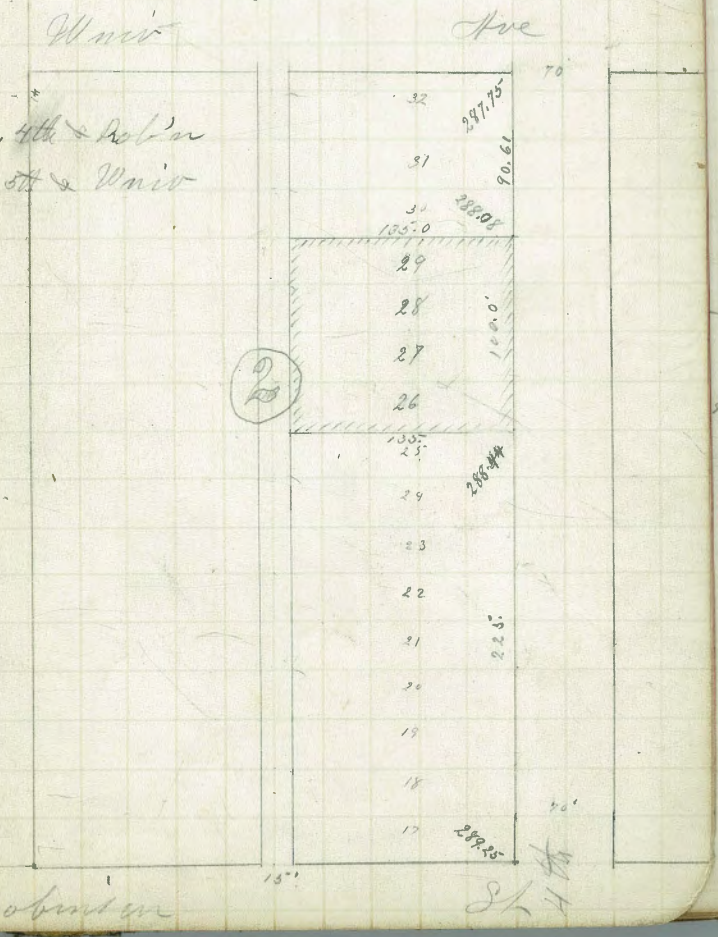
POSTED



Jan 13 1891 Hamlin Transit
Otton } chain
Williams }
Hemsley Stake

+	HI	Grade	Rod	−	Elev
4.70	293.65				288.95
				3.68	289.97
		288.44	5.21		
		.36	.36		
		288.08	5.57		

Survey of lots 26, 27, 28 & 29 Blk 2
Nutts Addition
Ordered by John H. Marshall

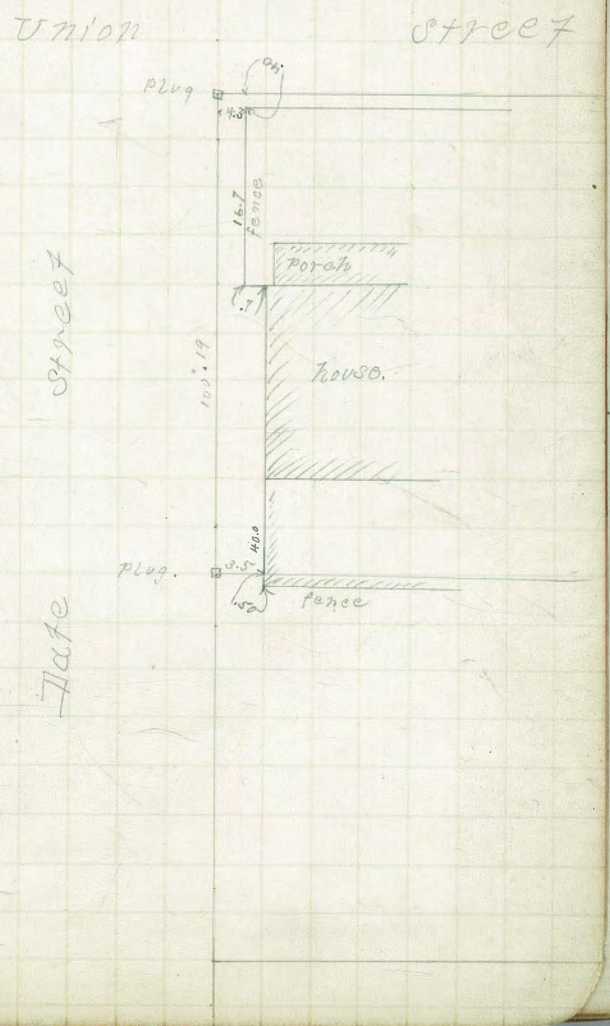


POSTED

Frontage line for lot 12 Blk 33 Middle town for Mrs French.

Feb 1891

Hambin transit
Ceiton
Williams
Hemsley



Elev on Sewer

Sta	+	HI	−	Elev	
B.M.	10.25	70.93		60.68	7th & B St
#	10.60	81.30	0.23	70.70	
#	6.45	87.52	0.23	81.07	
#	4.61	81.59	10.54	76.98	
			4.70	76.89	Elev at mouth of tunnel
#	10.86	87.84	4.61	76.98	
#	11.26	96.92	2.18	85.66	
			0.72	96.20	

2) 286
143.0

14
72.1
86.1 Front

Sta	Sta	HD	Grade	Rod	
		279.24			
0			270.01	270.01	9. 2
+13	+13		270.79	270.92	8. 3
+26			271.57	271.83	7. 41
+40			272.41	272.67	6. 57
+51			273.07	273.22	6. 0
+66			273.97	273.97	5. 27

2) 275
137.5
2
375.0

137.5
12
125.5

270.01
270.79 8.45
271.57 7.67
272.41 6.83
273.07 6.17

3.66
144.5
137.5
7
66 | 4 5
16
10.6
5.39
.01

270.79
13
270.92

270.
1 90
137.5
7
144.5

271.57
26
271.83

.50
.65
66) 3.96
39 6
.66

.5
6
7
.18

66
5
3.30
270.01
331

21
18
3
33

40
33
7

13
06
78
270.01
270.79
78
271.57

272.41

5
6.
7.5

273.97
270.01
3.98

.15

18
273.97
270.01
3.96

40
6
2.40

66
270.01
2.4
72 2.41

66) 3.30
330
.05

270.01
65
270.66
65
271.31

.05

13
.05
.65

26
.05
1 0

.40
.65
2.00

51
6
3.06
270.01
273.07

270.01
2
272.01

274.75
217.75
7.00

51
3
2.55
270.01
272.56

267.75
35
271.25
35
475

66
6
39 6
270.01
33.97

35) 1.50 / 140 / 10

6

40 06

40 / 20

40 / .50 / .60 / .80 / 190

50 / 70 / 90 / 210

50 / 60 / 70 / 180 / 2

273.46 / 271.36 / 2.10

50 / .65 / .85 / 2.00

273.86 / 40 / 273.46 / 40 / 273.06

10 / .06 / .60

271.36 / 273.06 / 30

274.47 / 25 / 274.72

50 / 65 / 8.

273.06 / 271.36 / 1.70

274.93 / 8 / 274.85

45 / 85

.45 / .85 / 1.30 / 85 / 2.15

.45 / .70 / 1.15

4

274.93 / 17 / 274.76 / 25 / 274.51 / 30 / 274.21

274.21 / 35 / 273.86

35) 2.100 / 210 / .06

6

.06 .06

38

4.77 / 25 / 5.02

4.77 / 25 / 4.02

4.77 / 17 / 4.94 / 17 / 11

6) 299.95 / 49.9

272.25 / 267.75 / 4.50

270.01 / 4.73 / 274.74

190

274.22 / 25 / 273.97 / 190 / 38 / 152

4.50 / 380 / 700 / 570 / 1300 / 30

.0236

509 / 473 / 22

.0236 / 38 / 1888 / 708 / .8968

267.75 / 3.59 / 271.34 / 89 / 272.25

.0236 / 152 / 472 / 1180 / 236 / 3.58.72 / 89 / 961

6) 299.94 / 49.99

430 / .38 / 3600 / 1350 / 171.00

38 / 190 × 4.50

272.25 / 89 / 271.36

49.99

190) 1710 / 1520 / 1900 / 1710 / .89

274.75 / 267.75 / 17.00 / .023 / 300 / 1000

300 / 97 / 203

267.75 / 2.26 / 270.01

97 / .023 1/3 / 32 / 291 / 194 / 2.263

203 / 23 1/3 / 64

609 / 406 / 4733

4.77
4.41
2) 36
.18

33
6

279.24
4.01
275.23

16.83
10.33
2) 27.16
13.58
11.00
2) 2.58
1.29
11
12.29

274.65
18
274.47

274.83
18
274.65

275.23
40
275.63

274.68
21
274.89

275.23
40
274.83

4.01
40
4.41

43
47
36

6) 299.93
24
59
54
59
54
53
48
50
48
20

49.9883
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3.6.5

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21
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1.98
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.60

4.77

79.77
29.91
104.68
32
105.00

.68
.32

16.83
10.33
2) 6.50
3.

279.24
4.56
274.68

279.24
274.89
4.35

1.37
89
32
35
274.47

1.98
1.37
60

15.90
3.65
12.25

4.52
4
4.56

15.90
1.37
16.53

17
9
21

279.24
4.56
274.68

274.68
25
274.93

16.53
13.92
.61

68
21
89

15.90
1.37
14.53

14.53
13.92
.61

10.67
61
19.28

5.23
61
4.62

15.90
4.62
11.28

49.97
49.97
99.976
99.976
92

49.99
99.99
199.99
299.99

49.976
2
199.952

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

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

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

DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees
Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
		100.00	0.44	100.00	0.87	99.99	1.31	89
99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
70.71	70.71							
Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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