

UNIVERSITY HEIGHTS

BLAINE ST.
CENTER ST
LINCOLN AV
TYLER AVE
VAN BUREN AVE

185

400

LEVEL

F.B. 185

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 1/3	21	49	41	95 2/3
2	4 2/3	22	51 1/3	42	98
3	7	23	53 2/3	43	100 1/3
4	9 1/3	24	56	44	102 2/3
5	11 2/3	25	58 1/3	45	105
6	14	26	60 2/3	46	107 1/3
7	16 1/3	27	63	47	109 2/3
8	18 2/3	28	65 1/3	48	112
9	21	29	67 2/3	49	114 1/3
10	23 1/3	30	70	50	116 2/3
11	25 2/3	31	72 1/3	51	119
12	28	32	74 2/3	52	121 1/3
13	30 1/3	33	77	53	123 2/3
14	32 2/3	34	79 1/3	54	126
15	35	35	81 2/3	55	128 1/3
16	37 1/3	36	84	56	130 2/3
17	39 2/3	37	86 1/3	57	133
18	42	38	88 2/3	58	135 1/3
19	44 1/3	39	91	59	137 2/3
20	46 2/3	40	93 1/3	60	140

Return to City Engineers Office
City Hall, San Diego, Cal.
TABLE FOR RUNNING ON SLOPES.

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

Angle	COR. IN LINKS	Angle	COR. IN LINKS	Angle	COR. IN LINKS	Angle	COR. IN LINKS
0		0		0		0	
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

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

344.11

5.56

349.67^v

5.16

344.51

4.07

~~340.44~~

348.58^v

11.10

337.48

0.68

338.16^v

12.89

325.27

0.15

325.42^v

10.90

314.52

1.01

315.53

7

8

9

10

11

12

13

14

15

16

17

18

19

20

In 11

Angle

0

4

5

6

7

8

9

10

Levels on Blair Street

Childs 1

June 13, 1905

Gunn
MunsonSo. line Blaine

W. L. U. Boulevard	H.I.	309.81	5.3	304.5
50' W. " "			5.6	305.2
100' W. " "			7.3	302.5
140' W. " "	(E. line alley)		8.0	301.8
160' W. " "	(W. " " ")		8.0	302.8
200' W. " "			8.2	301.6
250' W. " "			8.7	301.1
300' W. " "			8.8	301.0
342' W. " "	= E. line Clowland		8.9	300.9

North line Blaine

W. L. U. Boulevard	H.I.	309.81	4.2	305.6
50' W. " "			5.1	304.7
100' W. " "			6.2	303.6
150' W. " "			7.4	302.4
200' W. " "			7.5	302.3

North line Blaine

250' W.	U. Boulevard	H.I. 309.81	6.7	303.1
300' W.	"	"	8.0	306.8
306' W.	"	(E. line Cleveland)	8.4	301.4

Center Blaine

W. 2. U. Boulevard	H.I. 309.81	4.9	304.9	
50' W.	"	6.0	303.8	
100' W.	"	7.0	302.8	
150' W.	"	7.4	302.4	
200' W.	"	7.8	302.0	
250' W.	"	7.9	301.9	
300' W.	"	8.3	301.5	
324' W.	"	(E. line Cleveland)	8.8	301.0
Center	"	3.9	305.9	
E. line	"	3.9	305.9	
50' E.	"	2.9	306.9	
100' E.	"	3.0	306.8	

Center Blaine

140' E.	U. Boulevard (W. line alley)	3.3	306.5
160' E.	" " (E. " ")	3.7	306.1
200' E.	" "	4.5	305.3
250' E.	" "	5.3	304.5
300' E.	" " (W. line Center St.)	6.4	303.4
Center of Center St.		7.9	301.9
E. Line Center St.		9.6	300.2

So. line Blaine

Center U. Boulevard		4.2	305.6
E. line " "		4.6	305.2
50' E.	" "	3.6	306.2
100' E.	" "	3.4	306.4
140' E.	" " (W. line alley)	3.5	306.3
160' E.	" " (E. " ")	3.6	306.2
200' E.	" "	5.4	304.4
250' E.	" "	5.8	304.0

H.I. 309.81

3

So. line Blaine Street

300' E. U. Boulevard (west line center)	7.1	302.7
Center Center St.	9.0	300.8
E. line " "	10.4	299.4

North line Blaine

Center U. Boulevard	3.3	306.5
E. line " "	3.45	306.36
50' E " " H.I. 311.22	3.3	308.0
100' E " "	4.7	306.6
140' E " " (Whin alley)	5.5	305.8
160' E " " (C line alley)	6.3	305.0
200' E " "	6.7	304.6
250' E " "	7.0	304.3
300' E " " (W line center St)	7.1	304.2
Center of center St.	8.6	302.7
E. line " "	11.0	300.3

H.I. 304.91 July 16, 1905

North line Blaine

25' E Center St.	5.3	298.6
50' E " "	5.7	299.2
75' E " "	5.3	299.6
100' E " "	5.3	299.6
125' E " "	4.7	300.2
150' E " "	4.1	300.8
175' E " "	4.2	300.7
200' E " (W line alley)	4.7	300.2
220' E " (E line alley)	4.5	300.4
25' E alley	3.7	301.2
50' E " "	2.3	302.6
75' E " "	1.7	303.2
100' E " "	0.8	304.1
125' E " " H.I. 311.29	6.5	304.8
150' E " "	3.6	307.7
175' E " "	1.2	310.1
214.4 E " "	0.5	310.8

H.I. 304.91

South line Blaine

25' E Center St.	6.0	298.9
50' E " "	6.9	298.0
75' E " "	7.6	297.3
100' E " "	9.0	295.9
125' E " "	9.8	295.7
150' E " "	7.9	297.0
175' E " "	8.0	296.9
200' E " "	8.0	296.9
246.5 E " "	5.32	299.59

Center Blaine Street

50' E Center St.	6.2	298.7
100' E " "	6.7	298.2
150' E " "	6.1	298.8
200' E " "	5.1	299.8
250' E " "	3.7	301.2
300' E " "	2.5	302.4
340.5 E " "	1.0	303.9

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June

1905

4

June 17 1905

H.I. 328.41

East line Center Street		
So. line Lincoln St.	4.3	324.1
50' So. "	7.7	320.7
100' " "	9.4	319.0
150' " "	11.1	317.3
200' " "	13.7	314.7
250' " " H.I. 318.73	5.5	313.2
300' " "	8.9	309.8
350' " "	11.4	307.3
400' " "	12.9	305.8
450' " "	14.3	304.4
500' " "	15.3	303.4
550' " "	17.2	301.5
600' " " (N. line Blaine)	18.4	300.3
Center Blaine	18.5	300.2
So. line "	19.3	299.4

Builds
Dunn
Munson

5

East line Center Street

50' So. Blaine	18.4	300.3
104.6 " " (N. line University)	18.1	300.6

West line Center Street

So. line Lincoln St. (H.I. 328.41)	4.9	323.5
50' So. " "	8.0	320.4
100' So. " "	8.7	319.7
150' So. " "	9.5	318.9
200' So. " "	12.4	316.0
250' So. " " H.I. 318.73	5.0	313.7
300' So. " "	7.2	311.5
350' So. " "	8.7	310.0
400' So. " "	9.6	309.1
450' So. " "	11.3	307.4
500' So. " "	12.0	306.7
550' So. " "	13.2	305.5
600' So. " " (N. line Blaine)	14.5	304.2

H.I. 318.73

West line Center Street.

Center Blaine	15.3	303.4
So. line "	16.0	302.7
50' So. "	14.3	304.4
100' So. "	14.2	304.5
138.5' So. "	13.1	305.6

H.I. 328.41

Center Center Street

So. line Lincoln St.	5.6	322.8
50' So. " "	7.4	321.0
100' So. " "	9.4	319.0
150' So. " "	11.0	317.4
200' So. " "	12.9	315.5
250' So. " " H.I. 318.73	6.1	312.6
300' So. " "	8.7	310.0
350' So. " "	10.4	308.3
400' So. " "	11.8	306.9

H.I. 318.73

6

Center Center Street

450' So. Lincoln St.	12.0	306.7
500' So. " "	14.5	304.2
550' So. " "	14.3	304.4
600' So. " "(N. line Blaine)	16.0	302.7
Center Blaine	16.8	301.9
So. line "	17.9	300.8
50' So. "	15.8	302.9
100' So. "	16.4	302.3
1215' So. "	15.6	303.1

June 19, 1905

H.I. 338.24

East line Center Street

Center Lincoln St.	10.9	327.3
N. line " "	7.9	330.3
50' N. " "	6.0	332.2
100' N. " "	4.6	333.6
150' N. " "	4.2	334.0
200' N. " "	4.3	333.9
250' N. " "	3.4	334.8
300' N. " H.I. 347.81	11.41	336.40
350' N. " "	10.5	337.3
400' N. " "	9.2	338.6
417' N. " (W. line Park B)	9.1	338.7

Childs

Sum

Summar

7

H.I. 338.24

Center Center Street

Center Lincoln St.	12.7	325.5
N. line " "	10.5	327.7
50' N. " "	8.7	329.5
100' N. " "	7.3	330.9
150' N. " "	6.5	331.7
200' N. " "	6.1	332.1
250' N. " "	4.1	334.1
300' N. " H.I. 347.81	11.8	336.0
350' N. " "	9.7	338.1
400' N. " "	8.9	338.9
450' N. " "	7.9	339.9
500' N. " "	6.7	341.1
509.7 N. " (W. line Park B)	6.6	341.2

H.I. 338.24

West line Center Street

Center Lincoln St.	14.4	323.8
N. line " "	12.2	326.0
50' N " "	11.1	327.1
100' N " "	11.4	326.2
150' N " "	8.1	330.1
200' N " "	4.7	333.5
250' N " "	2.9	335.3
300' N " "	10.7	337.1
350' N " "	9.1	338.7
400' N " "	7.9	339.9
450' N " "	8.1	339.7
500' N " "	6.1	341.7
550' N " "	6.6	341.2
600' N " (So. line Campus)	5.3	342.5

H.I. 347.81

H.I. 324.22

Oct 8

North Line Lincoln Street

E. line University Park	6.4	317.8
50' E " "	3.1	321.1
100' E " "	3.2	321.0
140' E " (White Alley)	4.3	319.9
160' E " (E. " ")	3.7	320.5
200' E " "	3.6	320.6
250' E " "	0.8	323.4
300' E " " (W. line Center)	9.7	326.0
Center Center Street	8.0	327.7
E. line " "	5.4	330.3
50' E " H.I. 335.70	3.3	332.4
100' E " "	2.0	333.7
150' E " "	1.3	334.4
176.9 E " (White Park B)	2.9	332.8

Plat

H.I. 324.22

Center Lincoln Street

E. line University Boulevard	7.9	316.3
50' E " "	6.3	317.9
100' E " "	5.4	318.8
140' E " (W. line alley)	4.8	319.4
160' E " (E " ")	4.7	319.5
200' E " "	3.8	320.4
250' E " "	2.3	321.9
300' E " (W. line center)	11.9	323.8

H.I. 335.70

Center Center Street

E. line " "	8.4	327.3
50' E " "	6.0	329.7
100' E " "	4.3	331.4
150' E " "	3.6	332.1
193.8 E " (White Park B)	4.2	331.5

Plat

H.I. 324.22

9

South Line Lincoln Street

E. line University Boulevard	10.6	313.6
50' E " "	9.3	314.9
100' E " "	7.0	317.2
140' E " (W. line alley)	7.2	317.0
160' E " (E " ")	6.7	317.5
200' E " "	4.8	319.4
250' E " "	3.0	321.2
300' E " (W. line center)	12.2	323.5

H.I. 335.70

Center Center Street

E. line " "	11.6	324.1
50' E " "	9.7	326.0
95.4 E " (White alley)	7.8	327.9
115.4 E " (E. line alley)	7.3	328.4
166.8 E " "	5.4	330.3
210.8 E " (White Park Blvd)	6.2	329.5

Plat

June 21, 1905

H.I. 315.90

South line Lincoln Street

Center University Blvd	2.0	313.9
West line " "	5.4	310.5
50' W. " "	8.2	307.7
100' W " "	9.5	306.4
138.8 W " "(E. line Clearland)	11.4	304.5
Center Clearland av.	11.6	304.3
W. line H.I. 306.72	5.2	301.5
50' W. " "	5.6	301.1
100' W. " "	5.1	301.6
147.27 W " (E. line alley)	5.1	301.6
167.27 W " (W. line ")	5.0	301.7
200' W " "	5.2	301.5
250 W " "	6.0	300.7
299.27 W " (E. line Hendricks)	6.0	300.7
Center Hendricks	6.1	300.6
W. line " "	6.5	300.2
Plot		

Lehilds

Sum

Museum

10

H.I. 315.90

Center Lincoln Street

Center University Blvd.	0.9	315.0
W. line " "	4.2	311.7
50' W. " "	6.2	309.7
100' W. " "	8.8	307.1
144.5 W " "(E. line Clearland)	10.5	305.4
Center Clearland ave.	11.7	304.2
W. line H.I. 306.72	3.4	303.3
50' W. " "	3.7	303.0
100' W. " "	3.5	303.2
150 W " "	3.7	303.0
200' W " "	4.1	302.6
250' W " "	4.6	302.1
300' W " "	4.8	301.9
350' W " "	5.0	301.7
400' W " "	5.3	301.4
450' W " "	5.9	300.8
500' W " "	6.2	300.5

Plot X

Center Lincoln Street

550' W. Cleveland ave.	6.4	300.3
600' W. " "	7.0	299.7
650' W. " "	7.8	298.9
700' W. " "	8.7	298.0
750' W. " "	9.1	297.6
766' W. " angle point	9.3	297.4

Plat.

North line Lincoln Street

Center University Bldg.	-0.7	316.6
W. line " "	1.9	314.0
50' W " "	4.6	311.3
100' W " "	6.6	309.3
150' W " " (E. line Cleveland)	9.3	306.6
Center Cleveland ave.	9.7	306.2
W. line " "	10.07	305.83
50' W " H.I. 306.72	1.8	304.9
100' W " "	1.8	304.9
150' W " "	2.3	304.4
200' W " "	3.5	303.2
250' W " "	4.0	302.7
300' W " "	4.8	302.9
350' W " "	3.6	303.1
400' W " "	4.3	302.4
450' W " "	5.2	301.5
500' W " "	5.5	301.2

Plat

H.I. 306.72

North line Lincoln Street

550' W. Cleveland ave.	6.7	300.0
596.2 W " (E. line Maryland)	7.6	299.1
Center Maryland St.	7.8	298.9
W. line " "	8.7	298.0
E. line Buchanan	9.8	296.9
Center " "	10.4	296.3
W. line " "	9.5	297.2

H.I. 306.72

12

South line Lincoln Street

50' W. Richmond Street	7.3	299.4
100' W. " "	7.2	299.5
150' W. " "	7.3	299.4
200' W. " "	7.8	298.9
250' W. " "	8.6	298.1
300' W. " "	8.7	298.0
350' W. " "	9.0	297.7
362' W. " " angle point	8.98	297.74

Plat

June 22, 1905

H.I. 301.91

South line Lincoln Street

Center Vermont Street	9.7	292.2
E. line " "	13.4	288.5
27' E. " "	17.7	284.2
50' E. " "	14.6	287.3
100' E. " "	9.8	292.1
150' E. " "	7.4	294.5
200' E. " "	5.8	296.1
250' E. " "	4.7	297.2
300' E. " "	4.2	297.7
350' E. " "	3.8	298.1
400' E. " "	4.2	297.7
450' E. " "	4.2	297.7
491.9 E. " angle point	4.2	297.7

Plat

H.I. 293.93

South line Lincoln Street

W. line Vermont Street	1.1	292.8
" " 50' W.	2.4	291.5
" " 100' W.	3.6	290.3
" " 150' W.	4.5	289.4
" " 200' W.	5.3	288.6
" " 250' W.	6.5	287.4
" " 300' W.	7.5	286.4
" " 350' W.	8.5	285.4
" " 400' W.	9.8	284.1
" " 450' W.	10.4	283.5
" " 500' W.	11.3	282.6
" H.I. 287.19	8.0	279.2

Plat

Abilds
Gunn
Munson

13

H.I. 30191

14

North line Lincoln Street

North line Lincoln Street

Distance	H.I.	Value	Value
W. line Vermont Street	H.I. 30191	9.27	292.64
50' W	H.I. 294.07	1.8	292.3
100' W	"	3.4	290.7
150' W	"	4.8	289.3
200' W	"	6.5	287.6
250' W	"	7.1	287.0
300' W	"	11.2	282.9
350' W	"	15.3	278.8
400' W	"	14.3	279.8
450' W	"	12.7	281.4
500' W	"	15.5	278.6
538'.65 W	H.I. 287.19	13.6	274.6

Plot

Distance	Value	Value
Center Vermont Street	10.7	291.2
E. line "	12.0	289.9
50' E	10.2	291.7
100' E	8.5	293.4
150' E	6.7	295.2
200' E	4.9	297.0
250' E	4.3	297.6
300' E	3.9	298.0
350' E	4.1	297.8
400' E	4.0	297.9
445'.29 E	(Willis Buchanan)	4.7
		297.2

Plot

H.I. 294.07

Center Lincoln Street

W. line Vermont Street	2.0	292.1
50' W	2.3	291.8
100' W	3.4	290.7
150' W	4.5	289.6
200' W	5.2	288.9
250' W	6.6	287.5
300' W	8.0	286.1
350' W	8.9	286.2
400' W	10.0	284.1
450' W	11.2	283.9
500' W	11.5	283.6
538.1 W	14.9	279.2

Plat

H.I. 301.91

15

Center Lincoln Street

Center Vermont Street	10.6	291.3
E. line	11.6	290.3
50' E	11.1	290.8
100' E	8.9	293.0
150' E	7.0	294.9
200' E	5.3	296.6
250' E	4.1	297.8
300' E	3.3	298.6
350' E	3.1	298.8
400' E	3.7	298.2
450' E	4.3	297.6
496.35 E	4.5	297.4

Plat

June 24 1905

H.I. 313.01

South line Tyler Street

E. line Maryland Street	12.4	300.6	
30' E "	"	"	
50' E "	"	"	
75' E "	"	"	
100' E "	"	"	
130' E "	"	"	
140' E "	"	"	
160' E "	"	"	
200' E Maryland St,	-3.2	297.7	
227' E "	"	"	
250' E "	"	"	
300' E "	"	"	
Center Cleveland Ave.	1.4	311.6	
E line "	"	"	
50' E "	"	"	
100' E "	"	"	
114' E "	"	"	

H.I. 346.18

South line Tyler Street

134' E Cleveland Ave (E. line alley)	13.7	332.5
" " "	9.2	337.0
" " "	7.2	339.0
" (W. line campus)	5.3	340.9

Plat.

Childs
Gunn
Munson

16

H.I. 313.01

North line Tyler Street,

E. line Maryland Street	11.3	301.7
50' E " "	10.4	302.6
100' E " "	9.8	303.2
140' E " " (W. line alley)	9.4	303.6
160' E " " (E. line alley)	10.3	302.7
175' E " "	11.9	301.1
200' E " " H.I. 302.63	8.7	293.9
235' E " " canyon	14.5	288.1
250' E " "	8.3	294.3
280' E " " H.I. 313.01	7.8	305.2
300' E " " (W. line Cleaveland)	5.9	307.1
Center Cleaveland ave	1.2	311.8
E. line " H.I. 324.46	8.0	316.5
50' E " H.I. 335.31	13.5	321.8
71' E " " (W. line alley)	11.1	324.2
91' E " " (E. line ")	9.1	326.2

H.I. 346.18

17

North line Tyler Street

141' E. Cleaveland ave	12.4	333.8
191' E " "	7.8	338.4
243.8 E " " (W. line campus)	5.5	340.7

H.I. 313.01

Center Tyler Street

E. line Maryland Street	12.0	301.0	162' E
50' E " "	11.5	301.5	212' E
100' E " "	12.2	300.6	254' E
140' E " "	H.I. 302.63 " (W. line alley)	7.2	295.4
160' E " "	" (E. line alley)	11.5	391.1
186' E " "	" canyon	21.4	281.2
200' E " "	" "	14.8	287.8
240' E " "	" H.I. 313.01	11.1	301.9
250' E " "	" "	9.9	303.1
300' E " "	" (W. line Cleveland)	6.0	307.0
Center Cleveland ave.	1.4	311.6	
E. line " "	H.I. 324.46	8.3	316.2 304.7
50' E " "	H.I. 335.31	12.5	322.8 300.5
92' E " "	" (W. line alley)	8.2	327.1 304.8
112' E " "	" (E. line ")	4.6	330.7 308.4

H.I. 346.18

18

Center Tyler Street

Cleveland ave.	10.2	336.0
" "	8.3	338.9
" " (W. line Canyon)	5.7	340.5

H.I. 348.58

July 3rd 1905

South line Van Buren St.	250' W		
W. line Campus	5.0	343.6	
50' W "	5.4	343.2	
100' W "	6.0	342.6	
140' W (Chine alley)	7.0	341.6	
160' W "(W " ")	7.2	341.4	
200' W "	7.2	341.4	
250' W "	9.3	339.3	
300' W "(E. line Cleveland)	10.1	338.5	
Center Cleveland art.	12.1	336.5	
W. line Cleveland	H.I. 338.16	5.3	333.9
50' W "		10.1	328.1
100' W "		15.0	323.2
140' W "(Chine alley)	H.I. 325.42	5.6	319.8
160' W "(W " ")		6.5	318.9
200' W "		12.3	313.1

H.I. 315.53

19

South line Van Buren St.

250' W	8.0	307.5
300' W (E. line Maryland)	14.6	300.9

Plat.

H.I. 348.58

20

Center Van Buren Street

W. line Campus		4.5	344.1
50' W. "		4.7	344.9
100' W. "		5.5	342.9
140' W. " (E. line alley)		6.2	342.4
160' W. " (W. line ")		6.5	342.1
200' W. "		7.1	341.5
250' W. "		8.3	340.2
300' W. " (E. line Cleveland)		9.6	339.0
Center Cleveland ave.		11.0	337.6
W. line Cleveland	H.I. 338.16	2.2	336.0
50' W. "		7.2	331.0
100' W. "		12.7	325.5
140' W. " (E. line alley)	H.I. 325.42	3.3	322.1
160' W. " (W. line ")		4.6	320.8
200' W. "	plat	9.8	315.6
250' W. "		15.6	309.8
300' W. " (E. line Morfing)	H.I. 315.53	9.4	306.1

H.I. 348.58

21

North line Van Buren Street		
W. line campus	4.2	344.4
50' W "	3.9	344.7
100' W "	4.6	344.0
140' W " (E. line alley)	5.7	342.9
160' W " (W. " ")	5.8	342.8
200' W "	6.3	341.7
250' W "	7.0	341.6
300' W " (E. line leasland)	8.0	340.6
Center leasland w. l.	9.8	338.8
W. line #1 H.I. 338.16	0.5	337.7
50' W. "	4.6	333.6
100' W "	9.4	328.8
140' W. " (E. line alley) H.I. 325.42	1.0	324.4
160' W " (W. " ")	3.2	322.2
200' W " <i>Plot</i>	6.4	319.0
250' W "	12.8	312.6
300' W " (E. line Maryland) H.I. 315.53	6.7	308.8

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185

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37

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44

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48

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53

55

June 13 1905

Chilids
Dunn
Munson

56

Wooden Water Pipe line on University Ave. Starting at Boulevard.
Sta. Grade H.I. Rod Elev. cut

0 at University
Boulevard.

+50

1 +05

+50

2

+50

3

+50

4

+10.35 Cross in Richmond

+50

5

+50

6

June 15 1905

Childs
Grim
Munsam 57

Sta. Grade H.I. Rod Elev. cut

+50

7

+50

8

+50

9

+50

10

+50

+90.1 Cross in Vermont

11

+50

12

+50

13

58

59

60

61

62

June 13, 1905

Childs
Gunn
Munson

63

Wooden Water Pipe line on University Boulevard beginning University ave.

Sta. Grade H.T. Rod Elev. cut

0 at University ave.

+50

1

+50

2

+50

3

+50

4

+50

5

+50

6

+50

7

June 14 1905

Childs
Dunn #4
Munson

Sta. Grade N.T. Rod Elev. cut

+50

8

+50

9

+50

10

+07.3

Cross in gutter
Lincoln St.

+50

11

+50

12

+50

13

+50

14

June 16, 1905

65

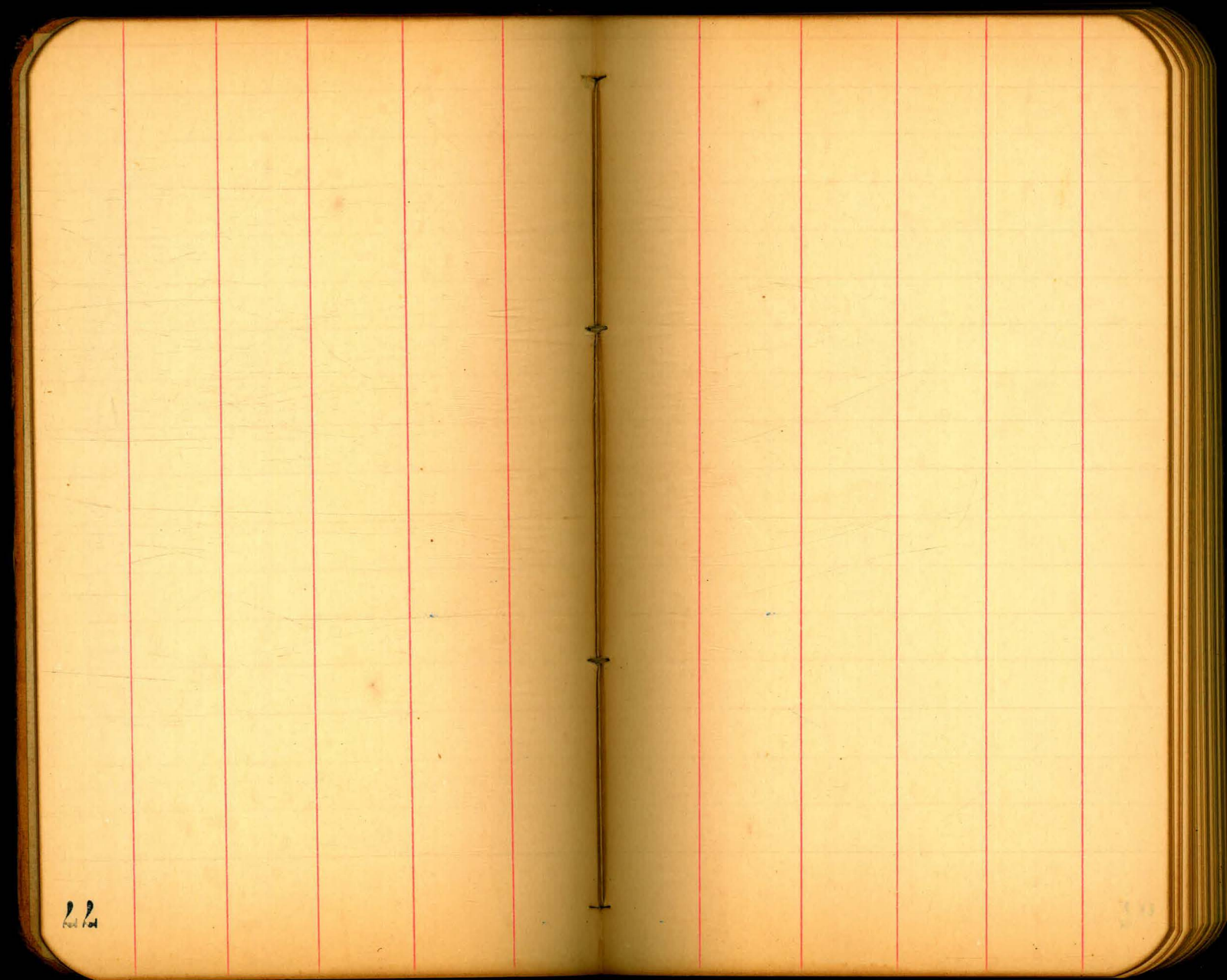
Sta.	Grade	H.I.	Rod	Elev.	cut
+50					
15					
+50					
16					
+50					
+85.25	Cross in Campus				
17+50					
18					
+50					
19					
+50					
20					
+50					
21					
+50					

Sta.	Grade	H.I.	Rod	Elev.	cut
22					
	+65				Cross
23					
	+50				
24					
	+50				
25					
	+50				
26					
	+38.8				angle point
27					
	+38.8				Cross,

71

74

75



22

8

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

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		
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	65.98	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.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

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Handwritten notes and calculations on the left page, including a vertical list of numbers (180, 170, 160, 150, 140, 130, 120, 110, 100, 90, 80, 70, 60, 50, 40, 30, 20, 10) and some scribbles.