

488

400

LEVEL

F.B. 488

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

Crocker Quality

LEVEL BOOK

No. 400



MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO

and

SACRAMENTO

FROM
Loring's Book Store

Along X Sec of 29th St (60)

6-6-11

Dinner
Tiffany's Restaurant to Redwood

1

560	32613		32053	8th NW. Ch Street 20
387	32509	493	32120	8th St 19 + Redwood

S side of Redwood St

W		39	321.2
N		37	321.4
E		40	321.1
S		35	321.6
		38	321.3
		41	321.0
		39	321.2

25' S of Redwood

E		45	320.6
N		42	320.9
E		41	321.0
S		40	321.1
		43	320.8
N		40	321.0
W		40	321.0

32509

	50	S of	Red Wood	
W			44	320.7
H			45	320.6
Y			46	320.5
L			41	321.0
Y			41	321.0
H			47	320.4
E			43	320.8

75 S of R-W

E			47	320.4
H			49	320.2
Y			42	320.9
L			43	320.8
Y			48	320.3
H			46	320.5
W			46	320.5

32509

29.7.11

2

	100	S of	Red Wood	
W			49	320.2
H			49	320.2
Y			51	320.0
L			47	320.4
Y			47	320.4
H			52	319.9
E			49	320.2

125 S of R-W

E			52	319.9
H			56	319.5
Y			50	320.1
L			49	320.1
Y			53	319.8
H			50	320.1
W			50	320.1

32509

	150	S of	Red wood	
W			54	319.7
th			54	319.7
y			55	319.6
b			53	319.8
y			51	320.0
H			57	319.4
E			53	319.8

175 S of R-W

E			56	319.5
th			60	319.1
y			54	319.7
b			54	319.7
y			58	319.3
th			57	319.4
W			55	319.6

32509

29

3

	200	S of	Red wood	
W			60	319.1
th			58	319.3
y			60	319.1
b			57	319.4
y			58	319.3
th			62	318.9
E			61	319.0

225 S of R-W

E			58	319.3
th			63	318.8
y			60	319.1
b			60	319.1
y			63	318.8
th			62	318.9
W			62	318.9

32509

250' S of R.A. wood

W	65	318.6
th	63	318.8
4	64	318.7
6	60	319.1
4	67	318.9
th	65	318.6
E	60	319.1

275' S of R-W-

E	63	318.8
A	68	318.3
4	64	318.7
6	61	319.0
4	65	318.6
th	64	318.7
W	64	318.7

32509

29th

4

300' S of Red wood

W	66	318.5
th	67	318.4
4	67	318.4
6	64	318.7
4	66	318.5
th	66	318.5
E	66	318.5

325' S of R-W-

E	70	318.1
th	72	317.9
4	68	318.3
6	65	318.6
4	71	318.0
th	70	318.1
W	71	318.0

TP	345	32104	750	317.57
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32104

350 S of Red Wood

W	31	317.9
th	32	317.8
Y	33	317.7
l	29	318.1
Y	31	317.9
th	35	317.5
E	34	317.6

375 S of R-W

E	35	317.5
th	38	317.2
Y	33	317.7
l	34	317.8
Y	36	317.4
th	32	317.2
W	34	317.6

32104

2904

5

400 S of Red Wood

W	37	317.3
th	36	317.4
Y	39	317.1
l	37	317.3
Y	38	317.2
th	43	316.7
E	37	317.3

425 S of R-W

E	48	316.2
th	47	316.3
Y	41	316.9
l	40	317.0
Y	44	316.6
th	43	316.7
W	42	316.8

32104

	450	S of	Red wood	
W			47 316.3	
th			45 316.5	
Y			48 316.2	
b			44 316.6	
Y			45 316.5	
th			50 316.0	
E			49 316.1	

	475'	S of	R-W	
E			49 316.1	
th			51 315.9	
Y			50 316.0	
b			47 316.3	
Y			52 315.8	
th			48 316.2	
W			50 316.0	

32104

294

6

	500	S of	Red wood	
W			50 316.0	
th			50 316.0	
Y			55 315.5	
b			51 315.9	
Y			52 315.8	
th			53 315.7	
E			53 315.7	

	525	S of	R-W	
E			50 316.0	
th			52 315.8	
Y			53 315.9	
b			52 315.8	
Y			55 315.5	
th			52 315.8	
W			50 316.0	

32104

	550	S of	Redwood	
W			50	316.0
H			50	316.0
Y			53	315.15
L			51	315.9
Y			53	315.7
H			53	315.7
E			52	315.8

	575	S of	R-W	
E			53	315.7
H			52	315.8
Y			54	315.6
L			50	316.0
Y			54	315.6
H			48	316.2
W			49	316.1

32104

2914

	600	S = N S of	Palm	(60)
W			47	316.3
H			50	316.0
Y			53	315.5
L			51	315.9
Y			53	315.5
H			53	315.5
E			54	315.6

	N	H S	Palm	
E			52	315.7
H			52	315.8
Y			56	315.5
L			52	315.8
Y			53	315.5
H			49	316.1
W			49	316.1

32104

N 1/4 of Palm St

W	5.8	315.2
bl	5.7	315.3
y	5.7	315.3
b	5.5	315.5
y	5.7	315.3
bl	5.7	315.3
E	5.7	315.3

Center of Palm St

E	5.3	315.7
bl	5.4	315.6
y	5.4	315.6
b	5.4	315.6
y	5.6	315.4
bl	5.6	315.4
W	5.6	315.4

32104

29.4

8

S 1/4 of Palm St

W	5.4	315.6
bl	5.4	315.6
y	5.4	315.6
b	5.3	315.7
y	5.2	315.8
bl	5.2	315.8
E	5.7	316.0

S bl of Palm St

E	5.3	315.7
bl	5.4	315.4
y	5.5	315.5
b	5.6	315.4
y	5.8	315.2
bl	5.8	315.2
W	5.8	315.2

32104

S line of Palm st

W	53	315.7
th	55	315.5
y	59	315.1
b	56	315.4
y	57	315.3
th	54	315.6
E	52	

25' S of Palm st

E	58	315.2
th	55	315.5
y	60	315.0
b	57	315.3
y	63	314.7
th	58	315.2
W	58	315.2

32104

2904

50' S of Palm

W	63	314.7
th	62	314.8
y	64	314.4
b	60	315.0
y	64	314.6
th	62	314.8
E	60	315.0

75' S of Palm st

E	65	314.5
th	64	314.6
y	66	314.4
b	64	314.6
y	68	314.2
th	65	314.5
W	66	314.4

32104

	100'	S of	Palm st	
W	W		6.9	314.1
th	th		6.8	314.2
γ	γ		7.0	314.0
h	h		6.6	314.4
γ	γ		6.9	314.1
th	th		7.1	313.9
E	E		6.7	314.3

	125'	S of	Palm	
E	E		7.1	313.9
th	th		7.0	314.0
γ	γ		7.2	313.8
h	h		7.0	314.0
γ	γ		7.3	313.7
th	th		7.4	313.6
W	W		7.4	313.6

TP

343

31662

785

313.9

31662

294

10

	150'	S of	Palm st	
W			3.4	313.2
th			3.3	313.3
γ			3.3	313.3
h			2.8	313.8
γ			3.1	313.5
th			3.1	313.5
E			3.1	313.5

	175'	S of	Palm	
E			3.5	313.1
th			3.4	313.0
γ			3.5	313.1
h			3.2	313.4
γ			3.6	313.0
th			3.4	313.2
W			3.8	312.8

	200	S of	Palm	H.
w	w		43	312.3
th	th		41	312.5
y	y		42	312.4
b	b		37	312.9
y	y		40	312.6
th	th		43	312.3
E	E		39	312.7

225 S of Palm

E	E		42	312.4
th	th		44	312.2
y	y		43	312.3
b	b		42	312.4
y	y		46	312.0
th	th		43	312.3
w	w		47	311.9

250 S of Palm

w			49	311.7
th			48	311.8
y			49	311.7
b			44	312.2
y			45	312.3
th			47	311.9
E			45	312.1

275 S of Palm

E			50	311.6
th			55	311.1
y			50	311.6
b			49	311.7
y			53	311.3
th			51	311.5
w			52	311.3

316.62

300' S of Palm st

W	58	310.8
H	55	311.1
Y	57	310.9
L	54	311.2
Y	54	311.2
H	59	310.7
E	57	310.9

325' S of Palm

E	62	310.4
H	65	310.1
Y	60	310.6
L	58	310.8
Y	62	310.4
H	60	310.6
W	62	310.4

316.62

29th

12

350' S of Palm

W	68	309.8
H	64	310.2
Y	66	310.0
L	62	310.4
Y	64	310.2
H	70	309.6
E	66	310.0

375' S of Palm

E	70	309.6
H	73	309.3
Y	67	309.9
L	66	310.0
Y	69	309.7
H	70	309.6
W	73	309.3

TP	180	310.97	745	309.17
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310.97

400' S of Palm

W	2.3	308.7
U	2.1	308.9
Y	2.1	308.9
T	1.6	309.4
Y	1.8	309.2
U	2.3	308.7
E	1.9	309.1

425' S of Palm

E	2.7	308.3
U	2.9	308.1
Y	2.4	308.6
L	2.3	308.7
Y	2.9	308.1
U	2.7	308.3
W	2.9	308.1

310.97

2902

18

450' S of Palm

W	3.8	307.2
U	3.7	307.3
Y	3.6	307.7
L	3.1	307.9
Y	3.1	307.9
U	3.6	307.4
E	3.3	307.7

475' S of Palm

E	4.0	307.0
U	4.3	306.7
Y	3.9	307.1
L	3.7	307.1
Y	4.4	306.6
U	4.5	306.5
W	4.7	306.3

31097

500 S of Palm

W	56	305.4
H	53	305.7
Y	54	305.6
L	47	306.3
Y	49	306.1
H	53	305.7
E	52	305.8

525 S of Palm

E	66	304.4
H	67	304.3
Y	61	304.9
H	60	305.0
Y	64	304.6
H	64	304.6
W	68	304.2

31097

29th

14

550 S of Palm

W	81	302.9
H	78	303.2
Y	80	303.0
L	76	303.4
Y	81	302.9
H	88	302.2
E	87	302.3

575 S of Palm

E	106	300.4
H	109	300.1
Y	102	300.8
L	100	301.0
Y	103	300.7
H	101	300.9
W	105	300.8

600' S = N line of Rutledge St

W	122	298.8
W	123	298.7
W	126	298.4
W	124	298.6
W	125	298.5
W	130	298.0
E	133	297.7

6 | blanch X sec of 27th st (60)
 7 | Down
 7 | July 1901 n of B st to Park Ave

935 206.32

19697

Bm NW 23
 + B st

n of B st

W	80
th	86
4	91
6	90
7	92
th	77
E	73

8' n of B st

E	27
th	37
7	82
6	86
4	85
th	84
th	60
th	62
th	44
W	44

+3'

+7'

+5'

206.32

27th st

12

25' n of B st

W	38
th	38
4	40
4	41
6	78
7	69
th	63
th	28
th	23
E	22

50 n of B st

E	16
th	18
4	56
6	61
4	58
4	54
th	32
th	32
W	32

+3'

+7'

306.32

75' n of B st

W		2.6
bl		2.8
	+3'	2.7
	+7'	4.4
Y		4.7
b		4.7
Y		4.5
		4.2
bl	+4'	1.6
	+9'	1.5
E		1.2

100' n of B st

E		0.8
bl		1.0
	+6'	3.4
Y		3.7
b		4.0
Y		3.9
		3.6
bl	+3'	1.8
	+7'	1.0
W		1.9

306.32

27th

17

125' n of B st

W		0.8
bl		1.0
	+3'	1.1
	+4'	1.9
Y		2.3
b		2.7
Y		2.8
	+5'	2.3
bl		0.5
E		0.3

TP	920	21562	0.60	205.72
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150' n of B st

E		8.7
bl		9.7
Y		10.6
b		9.9
Y		10.0
bl		9.3
W		9.2

215.62

175' n of Bat

W	74
bl	77
Y	87
b	85
Y	80
bl	80
E	80

200' n of Bat

E	74
bl	72
Y	71
b	73
Y	75
bl	65
W	62

215.62

225' n of Bat

W	52
bl	56
Y	60
b	61
Y	63
bl	67
E	70

250' n of Bat

E	67
bl	63
Y	60
b	54
Y	50
bl	50
W	47

27.22

18

215.62

275' n of B st

W	43
hh	45
7	48
b	51
7	57
ll	58
B	66

296 n of B st

E	60
hh	54
7	52
b	49
7	48
ll	41
W	38

215.62

300 n of S line of Q st (80) (Paved)

W	37
hh	38
sub	45
7	47
b	43
7	52
sub	52
hh	47
E	46

n line of Q st

E	42
hh	48
sub	54
7	57
b	43
7	46
sub	46
ll	36
W	35

270'

19

21562

5' n of A st

W 3,8

th 4,8

4 4,8

l 5,0

4 5,7

th 6,4

E 6,7

25' n of A st

E 8,5

th 7,8

4 6,7

E 6,0

4 5,4

th 5,5

W 5,2

21562

50' n of A st

W 5,2

th 5,8

4 6,5

l in Road 7,3

4 7,9

th 8,5

E 9,3

75' n of A st

E 10,4

th 9,4

4 8,3

l in Road 7,6

4 6,7

th 6,5

W 5,5

TP 4,60 21458 5,64 209,98

27 st

20

21458

104.09 n w }
103.52 n E } = Park Line

W	4.9
Ch	5.4
Y	6.6
6 in Road	8.1
7	8.8
Ch	11.2
E	11.3
50' n of Park on center	9.0
100' n of " " "	7.7

Road is Bushed out not barbed much

21

6
15
11
X sec of Alley Black 3 (15)
Dinner
Fishes and bit 445 + Pot + Uni

	559	29348	28789	Br nw 54 Robinson
	564	29422	490	28858
	n of Robinson am			
n			53	288.9
b			56	288.6
4			54	288.8
	25'	n	of Robinson	
E			50	289.2
b			54	288.8
n			54	288.8
	50'	n	of Robinson	
n			57	289.0
b			57	289.0
E			48	289.4
	75'	n	of Robinson	
E			53	288.9
b			51	289.1
n			53	288.9

29422

22

	100	n	of Robinson	
			54	288.8
			57	289.0
			53	288.9
	125'	n	of Robinson	
			48	289.4
			50	289.2
			50	289.2
	150'	n	of Robinson	
			47	289.5
			47	289.5
			46	289.6
	175'	n	of Robinson	
			47	290.2
			44	289.8
			44	289.8

29422

200 n of Robinson

E	41	290.1
b	44	289.8
w	45	289.7

225 n of Robinson

E w	43	289.9
b	44	289.8
w c	44	290.2

250 n of Robinson

E	45	289.7
b	45	289.7
w	45	289.7

TP 461 29455 448 289.4

275 n of Robinson

w	52	289.4
b	51	289.5
E	54	289.2

29455

300 n of Robinson

E	53	289.3
b	53	289.3
w	53	289.3

325 n of Robinson

w	52	289.4
b	51	289.5
E	49	289.6

350 n of Robinson

E	50	289.6
b	50	289.6
w	50	289.6

375 n of Robinson

w	59	288.6
b	55	289.1
E	58	288.8

400 m of Poles

E 52 289.4

L 53 289.3

W 56 289.0

416 m = S L of University ave

W 58 288.8

L 59 288.7

E 57 288.9

6
15
14
Blough x sec Section of Section 25 (50')
Doman
24 poles E of 3d st to E End of Bluff

620 29320 287.20 Section

E line of 3d st (Graded)

S	6.2	287.0
H	6.4	286.8
4	5.8	287.9
6	5.7	287.5
7	5.6	287.6
H	5.6	287.6
2	5.3	287.9
2' E of 3d st		
n	4.7	288.5
H	4.8	288.4
4	5.3	287.9
6	5.5	287.7
7	5.6	287.6
H	5.8	287.9
S	5.5	287.7

29320

Section 25

25' E of 3d st

5	5.5	287.7
H	5.5	287.7
7	5.4	287.8
6	5.4	287.8
7	5.3	287.9
H	5.7	288.2
H	4.8	288.4
50' E of 3d st		
n	5.2	288.0
H	5.0	288.2
4	5.1	288.1
6	5.2	288.0
4	5.2	288.0
H	5.3	287.9
S	5.4	287.8

29320

75 E of 3d st

S	52	288.00
th	51	288.1
4	53	287.9
6	51	288.1
7	51	288.1
th	51	288.1
2	50	288.20

100 E of 3d st

n	50	288.20
th	50	288.2
4	50	288.2
6	51	288.1
7	50	288.2
th	52	288.0
S	47	288.50

29320

Station

26

125 E of 3d st

S	48	288.40
th	46	288.60
7	46	288.6
6	46	288.6
4	45	288.7
th	40	289.2
2	43	289.90

150 E of 3d st

2	38	289.40
th	36	289.6
7	34	289.8
6	37	289.5
4	36	289.6
th	36	289.6
5	37	289.50

29320

	175	E of	3d	at
S			33	289.90
h			36	289.6
7			35	289.7
6			34	289.8
7			34	289.8
h			34	289.8
8			31	290.10

240 E = W line of 4th st (80)

n			22	291.00
h			24	290.8
7			19	291.3
6			20	291.2
7			26	290.6
h			33	289.9
S			31	290.10

29320

Section 27

		W. side of	4th	at
S			28	290.40
h			28	290.4
7			23	290.9
6			16	291.6
7			14	291.8
h			12	291.9
n			18	291.20

W 1/4 of 4th st

n			18	291.20
h			18	291.4
7			22	291.0
6			25	290.7
7			28	290.4
h			29	290.5
S			29	290.30

29320

Center of 4th st.

S	29	290.30
ll	20	291.2
7	19	291.3
8	19	291.3
4	20	291.2
ll	20	291.2
n	21	291.10

E 1/4 of 4th st

n	20	291.20
ll	22	291.0
8	17	291.5
6	18	291.4
4	14	291.6
ll	20	291.2
S	25	290.70

29320

Station

28

E lb of 4th st

S	25	290.70
ll	24	290.8
F	23	290.9
8	22	291.0
F	21	291.1
ll	20	291.2
n	20	291.20

TP 400 $\frac{29618}{100}$ 29218

E line of 4th st

n	43	291.9
ll	46	291.6
4	46	291.6
6	48	291.4
4	47	291.5
ll	47	291.5
S	45	291.7

296.18

25' E of Hit st

S	54	290.78
U	52	290.0
Y	50	291.2
6	47	291.5
7	48	291.4
U	46	291.6
9	46	291.58

50' E of Hit st

n	44	291.78
U	45	291.7
Y	45	291.7
6	45	291.7
7	47	291.5
U	48	291.4
S	42	291.98

296.18

Station 21

29

75' E of Hit st

S	49	291.28
U	46	291.6
Y	43	291.9
6	42	292.0
7	44	291.8
U	45	291.7
n	46	291.78 ³ 291.58

100' E of Hit st

n	49	291.28
U	45	291.7
Y	40	292.2
6	42	292.0
7	40	292.2
U	44	291.8
S	46	291.58

29618

	125	E of	4th st	
S			45	291.78
ll			43	291.9
Y			44	291.8
l			44	291.8
Y			45	291.7
ll			48	291.4
n			50	291.18

	150	E of	4th st	
n			47	291.58 (291.48)
ll			42	292.0
Y			42	292.0
l			44	291.8
Y			43	291.9
ll			43	291.9
S			43	291.88

29618

Station

30

	175	E of	4th st	
S			42	290.98 (291.98)
ll			43	291.9
Y			43	291.9
l			45	291.7
Y			47	291.5
ll			48	291.4
n			52	290.98

200 E = W S. 100 ft (80)

n			52	290.98
ll			46	291.6
Y			44	291.8
l			42	292.0
Y			38	292.4
ll			40	292.2
S			44	291.44 (291.78)

296.18

	W	bb of	5th st
S			43 291.88
U			42 292.0
Y			42 292.0
L			44 291.8
Y			46 291.6
U			50 291.2
Z		X	52 290.98

	W	1/4 of	5th st
m			52 291.0
U			48 291.4
Y			48 291.4
L			44 291.8
Y			42 292.0
U			43 291.9
S			44 291.8

296.18

Stoughton

31

		center of	5th st
S			45 291.7
U			44 291.8
Y			45 291.7
L			46 291.6
Y			47 291.5
U			48 291.4
Z			49 291.3

	E	1/4 of	5th st
m			49 291.3
U			48 291.4
Y			46 291.6
L			46 291.6
Y			43 291.9
U			43 291.9
S			44 291.8

+ ^{291.8} HI - Ele

Σ lb of 5th st

S	42	292.0
bl	43	291.9
7	43	291.9
6	44	291.8
7	48	291.4
ll	48	291.4
n	49	291.3

Σ line of 5th st

n	49	291.3
bl	49	291.3
7	49	291.3
6	49	291.3
7	48	291.4
bl	48	291.4
S	49	291.3

TP 3.29 ^{294.24} 4.23 291.515

^{294.74}

station w
32

Σ lb of 5th st

S	34	291.5
ll	34	291.5
7	37	291.2
6	39	291.0
7	40	290.9
ll	39	291.0
n	40	290.9

Σ lb of 5th st

n	46	290.3
ll	45	290.4
7	46	290.3
6	44	290.5
7	44	290.5
ll	44	290.5
S	43	290.6

	75	E 8	5th	
S			50	289.9
tl			50	289.9
y			52	289.7
b			52	289.3 289.7
y			52	289.7
tl			52	289.6
n			54	289.5

	100	E 8	5th	st
n			56	289.3
tl			60	288.9
y			60	288.9
b			59	289.0
y			58	289.0
tl			59	289.0
S			60	288.9

	125	E 8	5th	st
S			65	288.4
tl			65	288.4
y			64	288.5
b			71	287.8
y			88	286.1
tl			65	288.4
n			61	288.8

	143	E 8	5th	st
n			64	288.5
	150	E 8	5th	st = Edge of Bluff
n			86	286.3
tl			135	281.4
y			172	277.7
b			220	272.9
y			193	275.6
tl			140	280.9
S			79	287.0

x sec of 5th st (80) Broadway north

295.72

5th st

34

427 295.72

291.45

TP on Pgs
3 ~

25' line of Section st

W	4.7	291.0 ✓
bl	4.7	
7	4.7	
6	4.5	291.2 ✓
4	4.5	
bl	4.5	
E	4.5	291.2 ✓

25' line of Section st

E	4.8	290.9 ✓
bl	4.5	
4	4.8	
6	4.9	290.5 ✓
4	4.8	
bl	5.0	
W	5.2	290.6 ✓

50' line of Section st

W	5.0	290.7 ✓
bl	5.1	
7	5.2	
6	5.0	290.7 ✓
7	5.0	
bl	5.0	
E	4.9	290.5 ✓

75' line of Section st

E	5.0	290.7 ✓
bl	5.0	
7	5.0	
6	5.2	290.5 ✓
4	5.4	
bl	5.2	
W	4.8	290.9 ✓

29572

100' n f S tactor st

w		5-1	290.6 ✓
ll		5-3	
y		5-2	
b		5-2	290.5 ✓
y		5-1	
ll		5-3	
o		4-8	290.9 ✓

125' n f S tactor

E		4-8	290.9 ✓
ll		4-8	
y		5-0	
b		5-1	290.6 ✓
y		5-1	
ll		5-1	
w		5-3	290.4 ✓

29572

5-11 30

150' n f S tactor st

w		5-3	290.4 ✓
ll		5-0	
y		4-9	
b		5-0	290.7 ✓
y		5-0	
ll		4-8	
o		4-9	290.8 ✓

175' n f S tactor

E		5-0	290.7 ✓
ll		4-9	
y		5-0	
b		5-2	290.5 ✓
y		3-2	
ll		5-2	
w		5-4	290.3 ✓

295.72

200

n f

Stactor

W	65	289.2 ✓
bl	60	
7	56	
l	55	280.2 ✓
4	53	
bl	52	
E	50	280.7 ✓

225

n f

Stactor

E	52	280.5 ✓
bl	56	
7	57	
l	62	282.5 ✓
7	64	
bl	70	
W	78	287.9 ✓

295.72

250

n f

Stactor

W	96	286.1 ✓
bl	82	
7	74	
l	69	288.8 ✓
7	63	
bl	58	
E	54	280.3 ✓

275

n f

Stactor

E	58	289.9 ✓
bl	63	
7	69	
l	75	288.2 ✓
7	89	
bl	104	
W	124	283.3 ✓

506.11

33

29572

300 n of Stock

E line 6.6 289.1 ✓

325 n

E L about 8.0 289.7 ✓

This is a grove + the bank

backs off steep

exc 5th st (80) Birdway north 5th st

37

302 294.47

291.45

S line of Stock st

E 32 291.3 ✓

H 25

9 28

6 29 291.6 ✓

4 27

H 26

2 27 291.8 ✓

25 S of Stock st

W 27 291.8 ✓

H 23

9 28

6 30 291.5 ✓

4 27

H 32

E 34 291.1 ✓

29447

	50'	S of	Structure	
E			36	190.9 ✓
H			38	
Y			37	
b			33	191.2 ✓
Y			31	
H			34	
W			35	191.0 ✓

	75'	S of	Structure	
W			40	190.5 ✓
H			40	
Y			41	
b			40	190.5 ✓
Y			40	
H			36	
E			30	191.5 ✓

29492

3-21-15

38

	100'	S of	Structure	
E			43	190.2 ✓
H			44	
Y			44	
b			43	190.2 ✓
Y			44	
H			45	
W			48	189.7 ✓

	125'	S of	Structure	
W			52	189.3 ✓
H			52	
Y			52	
b			48	189.7 ✓
Y			48	
H			46	
E			44	190.1 ✓

	150	S of	Stoctor st	
E			48	289.7 ✓
ll			50	
7			52	
6			51	289.4 ✓
7			53	
ll			59	
w			63	289.2 ✓

	175	S of	Stoctor	
w			64	288.1 ✓
ll			63	
7			62	
6			60	288.5 ✓
7			57	
ll			57	
E			59	288.6 ✓

	200	S of	Stoctor st	
E			66	287.9 ✓
ll			66	
7			66	
6			65	288.3 ✓
7			64	
ll			69	
w			70	287.5 ✓

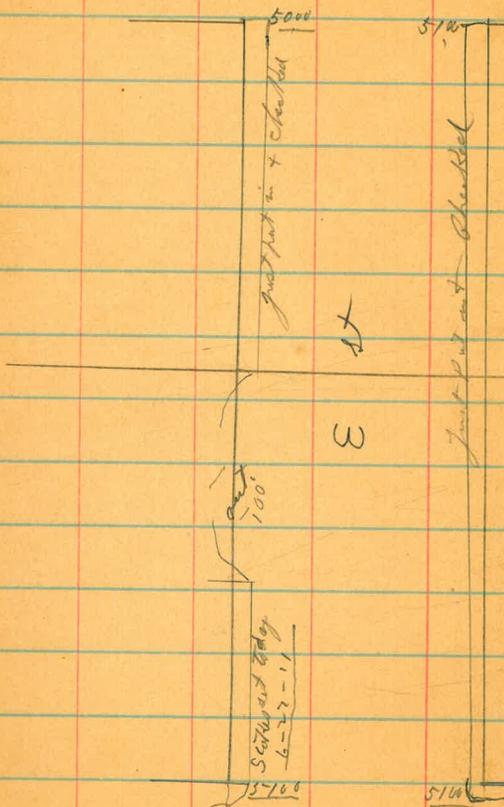
	222	S of	Stoctor	
E			75	287.0 ✓
	225	S of	Stoctor (Down Street)	
w			77	286.8 ✓
ll			76	
7			81	
6			81	286.4 ✓
7			84	
ll			75	
E			90	285.5 ✓

6/37
11/7/27

Check back Guides of lines for paving
E St

40

15th St

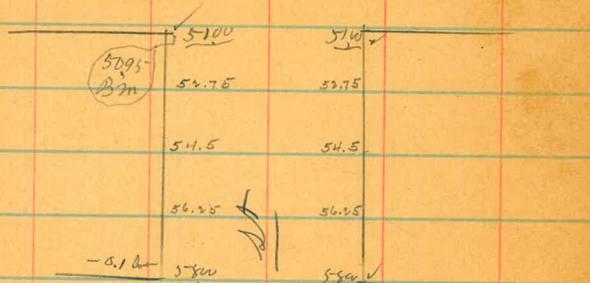


14th St

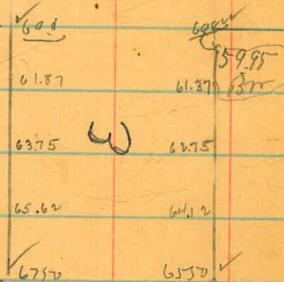
Check Coal Beads & in

E AT

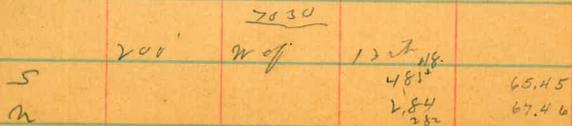
14th st



13th st



12th st



995 60.90

5095 Brn 2w 14

W side of 14th st

N		995	
N		99	51.00
S		99	51.00
RT		100	50.00 - 1 low
	50' W of	14th st	
S		82	52.7
E		82	52.7
N	100' W of	14th st	
N		645	54.46
S		650	54.4 - 1 low

150' W of 14th st

S		4.6	56.3
N		4.7	56.2

200' W of E of 13th st

RT		58	57.90 - 1 low
N		295	58.00
S		290	

W side of 13th st

S		0.99	60.0
N		0.9	60.0
TP	10.35	70.30	0.95

50' W of 13th st

N		85	61.5 - 1 low
S		90	61.3 - 1 low

100' W of 13th st

N		755	62.75
S		670	63.60 - 1.5 low

150' W of 13th st

S		475	65.55 - 1 low
N		620	64.10

Check bank Grade + line

E 21

12th

66.5	65.0
66.12	64.75
65.75	64.5
64.5	64.15
64.0	64.0

5.90 Bank 1700
2.00 Bank 1700
2.00 Bank 1700

11th

64	63
63.75	62.63
63.50	62.25
63.25	61.87
63.0	61.5

10th

3.01

70.20
69.74

3.61

42

W line of 12th st

n	32	66.4	.1 low
s	47.5	65.00	
50' W of	11.2	64.84	.1 high
n	4.9	66.00	.1 low
s	37.2		
100' W of	11.2	65.64	.1 low
n	4.0	64.54	
s	22.0		
125' W of	1.2	64.34	
n	5.5	65.22	.1 low
s	4.5		
200' W of	3.0	64.70	.3 low
n	4.5	64.70	
s	5.5		

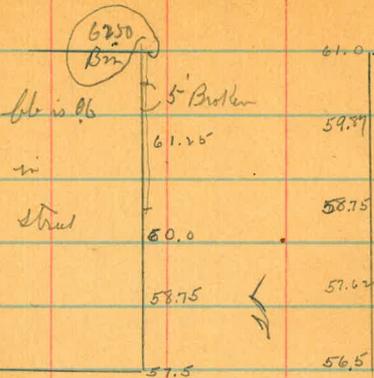
TP 291

66.90	574	64.20
W 2' of	11.2	64.95
n	39.5	64.00
s	2.0	
50' W of	11.2	63.70
n	3.20	63.00
s	4.70	
100' W of	11.2	64.15
n	4.75	63.50
s	3.40	
150' W of	11.2	63.40
n	3.7	61.50
s	5.1	
200' W of	3.0	61.50
n	5.40	61.50
s	8.95	63.00
n	4.40	62.50

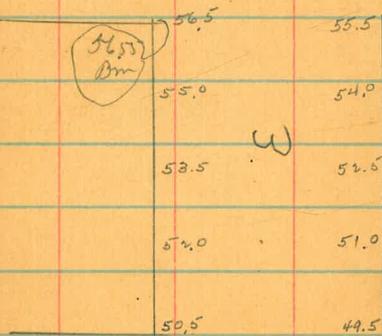
Along check banks Grades + Lines

E St

10th St



9th



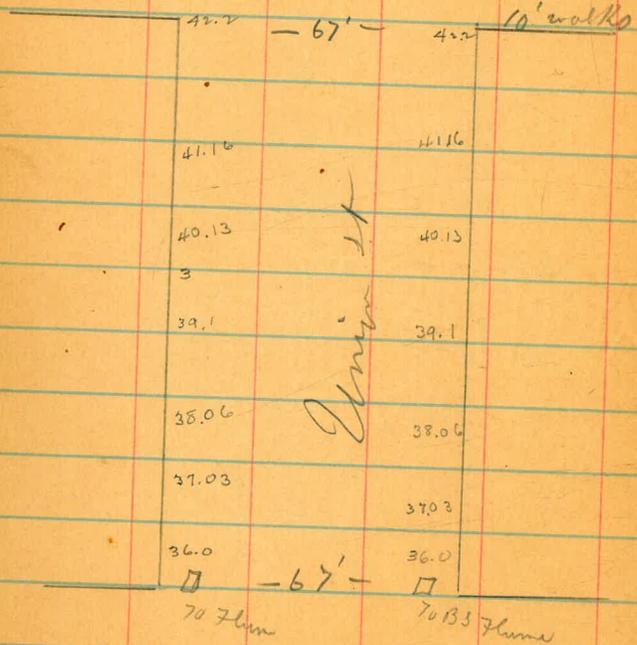
8th St

176	6426	10 ft	6250 Bm	
W	24	185	62.41	1 low
		335	60.91	1 low
50'	W 8	445	59.81	1 low
		310	61.16	1 low
100'	W 7	43	59.96	
		55	58.71	
150'	W 4	10 ft	57.56	1 low
		670	58.71	
200'	W = E	515	58.71	
		675	57.51	
		78	56.46	
	W line of	9 ft		
		88	55.46	
		78	56.46	

190	5845	771	5655	
50'	W 8	35	54.05	
		45	53.95	
100'	W 8	60	52.45	
		50	53.45	
150'	W 6	65	51.95	
		75	50.95	
200'	W = E	90	49.45	
		80	50.45	

6 / Lehigh Lehigh Gravel & Sand
 28 / Penna
 11 / Feb
 Union St

Cast



B St

Bm
 3493

	874	4367	34.93	Bm SW B 2 mi
				44
		R line of	B St	
W			720.77	35.92 - 1 low
E			770.77	35.97
	50'	n 8	B St	
E			67	36.97
W			67	36.97
	100'	n 8	B St	
W			5.60	38.07
E			5.60	38.07
	150'	n 8	B St	
E			46	39.07
W			47	39.97 - 1 low
	200'	n 8	B St	
W			40	39.67 - 1 low
E			35	40.17
	250'	n 8	B St	
E			25	41.17 - 1 low
W			285	40.82 - 1 low
	300'	n 8	S	2
W			185.14	41.82 - 1 low
E			250.15	42.17 - 1 low

Check levels grade & line
Union st

Ash st

41.0	-75'	42.5
41.83		43.17
42.67		43.84
43.5		44.5
43.17		44.0
42.83		43.5
42.5		43.0

Union st

42.37
Bm

A st

670 49.07

42.37

Bm 42.37

North of A st

W		6.50	42.57
E	50'	61.67	42.97
E		3.76	43.47
W	100'	6.7	44.87
E		5.95	43.12
W	150'	5.1	43.97
E		4.6	44.47
W	200'	5.7	43.47
E		6.45	42.62
W	250'	5.75	43.82
E		6.0	43.07
W	300'	7.3	41.77
E		8.1	40.97
W		6.6	42.47

-1.20

of Ash st

check curbs in + Grade
 Mon St

Beech St

	49.50	75'	51.0
Broken Tree	48.07 -6'		49.51
	46.67		48.17
	45.45		46.75
	45.83		45.33
Broken Tree	44.41 -5'		43.91
4097 Bin	41.0		42.5
	at curb grade		
	level		

Ash St

725 4800

4097

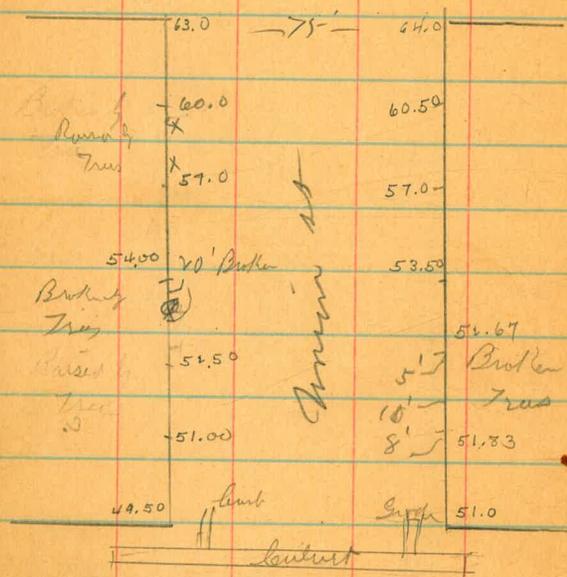
Bin n 46
 ash + Bin

n side of Ash

W			7.2	41.00	
E			5.7	42.50	
	50'	n	5.7	42.50	-1 low
E			4.4	43.80	-1 low
W			5.7	44.30	-1 high
	150'	n	4.2	44.00	
E			3.0	45.00	-1 low
	150'	n		46.00	
E			3.0	45.00	
	200'	n		46.70	
E			1.5	48.00	
W			0.0	47.90	
	66'	54'	0.0	47.90	
	250'	n		49.50	
E			5.0	46.00	-1 high
W			6.3	48.00	
	300'	n	2.0	49.50	
E			5.0	49.50	
			2.5	51.00	

Check Comb Grade & Line
Union St

cedar St



Buck

54.50

47

	n	line of	Buck	
E			35 ⁻³⁸	51.02
W	50'	n b	50	49.52
				Buck
W			35	51.02
E	100'	n b	45	52.02 - 2 high
				Buck
E			175	54.72 - 1 high
W			205	52.47
TP	12.3	6488	177	52.75
E				Buck
W	150'	n b	114	53.48
				53.98
W	200'	n b	80	Buck
				56.88 - 1 low
W			80	56.88 - 1 low
E	250'	n b	475	Buck
				60.52
SW			47	59.98
W	300'	n b		52 Cedar
			185 ⁻¹⁸	63.03
			190 ⁻¹⁰	63.28 - 1 low

Check Comb, Gradient Line
Union

	Date	
Bm 6879	69.0	71.0
	68.17	70.0
	64.33	69.0
		68.0
Barker by tree	66.50	
	65.67	67.0
64.83	66' Barker	66.0
		65.0
64.04 Bm	64.0	

Cedar

960 73-62 6402 On 48

	n	sin	of	Cedar
N			96	64.02
E			8.3	65.02
	50'	n	87	64.92
E			77	65.92
W			86	65.02 - n high
	100'	n		65.62
N			80	66.97
E			65	65.02
	150'	n		65.07
E			55	66.62 .1 high
W			70	65.02
	200'	n		67.32
E			63	69.02
	250'	n		65.02
E			36	70.02
W			55	68.12
	300'	n		69.02
N			5 d	68.92
E			47	70.92
			2,7	71.02
				70.02
				70.02

n sin of Date

E	1.6	70.02
W	3.6	70.02

7/19/17
 19
 17/17
 See of Richmond St (80')
 n of Pennsylvania to Sol. Henshaw
 Richmond

	218	297.30	295.12	13M Nub 29. Poles Richmond
				n of Pennsylvania an
W		297.3	7.0	290.3
th			6.6	290.7
y			6.5	290.8
t			6.0	291.3
y			5.8	291.5
th			5.1	292.2
E			4.9	292.4
	25			n of Penn an
E			5.0	292.3
th			5.2	292.1
y			5.8	291.5
t			6.3	291.0
y			6.7	290.6
th			7.0	290.3
W			7.0	290.3

297.30

Richmond
49

	50'	n of Penn an
W	297.3	7.0 290.3
th		6.7 290.6
y		6.6 290.7
t		6.0 291.3
y		5.5 291.8
th		5.0 292.3
E		4.8 292.5
	75'	n of Penn an
E		4.8 292.5
th		4.8 292.5
y		6.0 291.3
t		6.1 291.2
y		6.3 291.0
th		6.6 290.7
W		6.4 290.9

297.30

100' n of Penn am

W	297.3	64	290.9
ll		63	291.0
4		62	291.1
6		60	291.3
4		55	291.8
ll		47	292.6
E		46	292.7

125' n of Penn am

E		44	292.9
ll		47	292.6
4		54	291.9
6		57	291.6
4		55	291.8
ll		54	291.9
W		61	291.2

299.30

Richmond

50

150' n of Penn am

W	297.3	56	291.7
ll		50	292.3
4		47	292.6
6		47	292.6
4		46	292.7
ll		46	292.7
E		44	292.9

175' n of Penn am

E		37	293.6
ll		40	293.3
4		43	293.0
6		46	292.7
4		49	292.4
ll		52	292.1
W		55	291.8

297.30

	200'	n of	Pennam
W	297.3	32	292.1
U		48	292.5
Y		42	293.1
L		41	293.2
Y		37	293.6
U		34	293.9
E		34	293.9

	225'	n of	Pennam
E		24	294.9
U		26	294.7
Y		33	294.0
L		36	293.7
Y		37	293.6
U		45	292.8
W		49	292.4

297.30

Richmond
51

	250'	n of	Pennam
W	297.3	44	292.9
U		42	293.1
Y		34	293.9
L		32	294.1
Y		27	294.6
U		20	295.3
E		18	295.5

	275'	n of	Pennam
E		18	295.5
U		20	295.3
Y		25	294.8
L		30	294.3
Y		30	294.3
U		35	293.9
W		38	293.5

29730

300 n = S S of Robinson am (80')

W 297.3 33 294.0

W 29 294.4

bl 27 294.6

4 24 294.9

bl 22 295.1

4 bl 17 295.6

E 21 295.2

S bl of Rob

E 18 295.5

E bl 20 295.3

bl 4 21 295.2

4 bl 22 295.1

bl 4 25 294.8

bl 27 294.6

W 36 293.7

595

30107

295.12

13m

30107

S 1/4 of Robinson

W 301.1 64 294.7

bl 62 294.9

4 61 295.0

bl 58 295.3

4 55 295.6

bl 58 295.3

E 60 295.1

Center of Robinson

E 59 295.2

bl 57 295.4

4 57 295.4

bl 59 295.2

4 60 295.1

bl 63 294.8

W 64 294.7

Robinson

52

30167

N 14 of Robinson

W	301.1	6.7	294.9
bl		5.9	295.2
Y		5.8	295.3
b		5.8	295.3
Y		5.5	295.6
bl		5.5	295.6
E		5.7	295.4

N 66 of Robinson

E		5.9	295.2
bl		5.8	295.3
Y		5.6	295.5
b		5.7	295.4
Y		5.8	295.3
bl		5.5	295.6
W		6.1	295.0

30167

Robinson

53

N line of Robinson

W	301.1	6.0	295.1
bl		5.7	295.4
Y		5.6	295.5
b		5.7	295.4
Y		5.5	295.6
bl		5.7	295.4
E		6.0	295.1

25 of Robinson

E		5.9	295.2
bl		5.8	295.3
Y		5.8	295.3
b		5.9	295.2
Y		5.9	295.2
bl		5.9	295.2
W		6.0	295.1

301.07

50 n of Robinson

W	301.1	60	295.1
U		59	295.2
S		60	295.1
L		58	295.3
Y		55	295.6
U		54	295.7
E		56	295.5

75 n of Robinson

E		55	295.6
U		55	295.6
Y		55	295.6
L		55	295.6
Y		57	295.4
U		57	295.4
W		57	295.4

301.07

100 n of Robinson

W	301.1	54	295.5
U		54	295.7
Y		52	295.9
L		49	296.2
Y		46	296.5
U		53	295.8
E		53	295.8

125 n of Robinson

E		45	296.6
U		49	296.2
Y		51	296.0
L		55	295.6
Y		57	295.4
U		57	295.6
W		57	295.4

54

301.07

150 n 8 Robinson

W	301.1	6.0	295.1
bl		5.8	295.3
Y		5.9	295.2
b		5.1	296.0
Y		5.5	295.6
ll		5.7	295.4
E		5.4	295.7

175 n 8 Robinson

E		5.1	296.0
ll		5.5	295.6
Y		5.8	295.3
b		5.7	295.4
Y		6.0	295.1
ll		5.9	295.2
W		5.8	295.3

301.07

Richmond

55

200 n 8 Robinson

W	301.1	5.8	295.3
ll		5.8	295.3
Y		5.9	295.2
b		5.4	295.7
Y		5.6	295.5
ll		5.3	295.8
E		5.1	296.0

225 n 8 Robinson

E		5.3	295.8
ll		5.2	295.9
Y		4.9	296.2
b		5.9	295.2
Y		5.9	295.2
ll		6.0	295.1
W		5.9	295.2

301.07

250 n of Robinson

W	301.1	5.9	295.2
bl		5.8	295.3
Y		5.7	295.4
b		5.4	295.7
Y		5.6	295.5
bl		5.0	296.1
E		4.8	296.3

275 n of Robinson

E		5.1	296.0
bl		5.2	295.9
Y		5.1	296.0
b		5.6	295.5
Y		5.6	295.5
bl		5.7	295.4
W		5.6	295.5

301.07

Richmond
50

300 n = S. dir of Essex st (80)

W	301.1	5.6	295.5
bl		5.2	295.5
Y		5.5	295.6
b		5.2	295.9
Y		4.8	296.3
bl		5.2	295.9
E		5.3	295.8

S bl of Essex

E		5.1	296.0
bl		4.6	296.5
Y		5.5	295.6
b		5.9	295.2
Y		5.7	295.4
bl		5.7	295.4
W		5.5	295.6

TP 513 3084

5.78 295.29

30042

S	1/4 of	E	Index
W	300.4	55	294.9
U		53	295.1
Y		51	295.3
L		52	295.2
Y		50	295.4
U		46	295.8
E		45	295.9

Route of

			Essex
E		49	295.5
U		50	295.4
Y		50	295.4
L		51	295.3
Y		53	295.1
U		53	295.1
W		53	295.1

30042Richmond
57

N	1/4 of	E	Index
W	300.4	55	294.9
U		52	295.2
Y		50	295.4
L		49	295.5
Y		47	295.7
U		47	295.7
E		51	295.3

Route of

			Essex
E		51	295.3
U		48	295.6
Y		46	295.8
L		49	295.5
Y		49	295.5
U		50	295.4
W		53	295.1

300.42

n sin of Essex

W	300.4	49	295.5
U		48	295.6
Y		52	295.2
b		46	295.8
Y		42	296.2
U		47	295.7
E		49	295.5
TP	467	300.75	434
	25'	n of	Essex
E	300.8	47	296.1
U		50	295.8
Y		51	295.7
b		52	295.2
Y		58	295.0
U		55	295.3
W		50	295.8

300.75

Rechnung

58

50 n of Essex

W	300.8	48	296.0
U		50	295.8
Y		47	296.1
b		48	296.0
Y		50	295.8
U		51	295.7
E		52	295.6

75 n of Essex

E		52	295.6
U		48	296.0
Y		46	296.2
b		51	295.7
Y		53	295.5
U		45	296.3
W		45	296.3

300.75

	100'	n	of	E	surf
W		300.8	44	296.4	
bl			40	296.8	
y			47	296.1	
b			48	296.0	
y			50	295.8	
bl			48	296.0	
E			50	295.8	

125' n of E surf

E			50	295.6	
bl			50	295.8	
y			50	295.8	
b			47	296.1	
y			47	296.6	
bl			37	297.1	
W			37	297.1	

300.75

Richmond

59

	150'	n	of	E	surf
W		300.8	37	297.1	
bl			38	297.0	
y			41	296.7	
b			43	296.5	
y			40	296.8	
bl			38	297.0	
E			39	296.9	

175' n of E surf

E			44	296.2	
bl			43	296.5	
y			47	296.1	
b			37	296.9	
y			39	296.9	
bl			37	297.1	
W			37	297.6	

300.75

200' n of Essex

W	300.8	3.5	297.6
bl		3.6	297.2
y		3.6	297.2
b		3.4	297.4
y		3.7	296.9
bl		4.0	296.8
E		3.6	297.2

225' n of Essex

E		3.4	297.4
bl		3.8	297.0
y		3.6	297.2
b		3.7	297.1
y		3.8	297.0
bl		3.7	297.6
W		3.4	297.4

300.75

250' n of Essex

W	300.8	3.3	297.5
bl		3.5	297.3
y		3.6	297.2
b		3.8	297.0
y		3.4	297.4
bl		2.7	298.1
E		2.9	297.9

264' n = S line of Pennsylvania Ave ⁽¹⁵⁰⁾

E		2.5	298.3
bl		2.8	298.0
y		3.4	297.4
b		3.8	297.0
y		3.8	297.0
bl		2.5	297.3
W		3.1	297.7

Richmond

60

N line of University

521 30237 29716 Bm Str University

W	302.4	5.3	297.1	
H		5.3	297.1	
y	5.9	5.9	297.5	296.5
		5.5	296.9	
b		5.1	297.3	
y		5.7	296.7	
H		4.4	298.0	
E		4.0	298.4	

25' n of University

E		3.8	298.6	
H		4.3	298.1	
y		5.1	297.3	
b		5.1	297.3	
y		5.3	297.1	
H	Gutter	6.0	296.4	
		5.3	297.1	
W		4.9	297.5	

S 1/2 of Block seems to have been Graded Side Walk on E side

30237

Richmond

61

50 n of University

W	302.4	5.0	297.4	
H		5.2	297.2	
y		5.8	296.6	
		5.3	297.1	
b		4.9	297.5	
y		4.8	297.6	
H		4.2	298.2	
E		3.7	298.7	

75' n of University

E		3.5	298.9	
H		4.1	298.3	
y		4.6	297.8	
b		4.8	297.6	
y		5.3	297.1	
H	Gutter	5.7	296.7	
		5.7	297.3	
W		5.0	297.4	

30.37

100' n of University av

W	302.4	50	297.4
bl		5.4	297.0
7	Butter	5.8	296.6
		5.3	297.1
6		4.7	297.7
7		4.4	298.0
bl	Butter	4.3	298.1
		4.0	298.4
E		3.2	299.2

125' n of University

E		3.5	298.9
bl		4.0	298.4
7		4.2	298.2
6		4.7	297.7
7		5.3	297.1
bl	Butter	5.8	296.6
		5.3	297.1
W		5.0	297.4

30.37

150' n of University

W	302.4	51	297.3
bl		5.2	297.1
7	Butter	6.0	296.4
		5.1	297.3
6		4.5	297.9
7		3.9	298.5
bl		3.3	299.1
E		3.1	299.3

175' n of University

E		3.2	299.2
bl		4.1	298.3
7		4.3	298.1
6		4.6	297.8
7		5.2	297.2
bl	Butter	6.0	296.4
		5.3	297.1
W		5.2	297.2

Richmond

62

30237

200 n of University

W		3024	52	297.2
H			54	297.0
	Sutta		61	296.3
Y			52	297.2
L			45	297.9
Y			44	298.0
	+7'		57	296.7
H			49	297.5
	+5'		37	298.7
E			34	299.0

225' n of University

E			33	299.1
	+10'		33	299.1
H			51	297.3
	+7'		53	297.1
Y			44	298.0
L			44	298.0
Y			52	297.2
H	Sutta		59	296.5
			54	297.0
W			51	297.3

30237

2573 n = 52 Standard - West

W		3024	52	297.2
H			53	297.1
	Sutta		57	296.7
Y			52	297.2
L			47	297.7
Y			45	297.9
	+5'		44	298.0
H			30	299.4
	+10'		32	299.2
E			35	298.9

2573 n = 52
 282' n = 52
 (8237 figured) = 52
 calculator (Graded)

E			33	299.1
	+10'		36	298.8
H			42	298.2
Y			42	298.2
L			45	297.9
Y			52	297.2
H	Sutta		58	296.6
			53	297.1
W			51	297.3

Rehman

63

A line of Cleveland

659 30372 29713 Brnw Cleveland

W	303.7	6.5	297.2
th		6.5	297.2
Y		6.2	297.5
b		5.4	298.3
Y		5.8	297.9
b		4.7	299.0
E		4.5	299.2

25' n of Cleveland on W }
220 " " E }

E		4.5	299.2
th		4.7	299.0
Y	78°	4.7	299.0
Y		5.5	298.2
b		4.9	298.8
Y		5.6	298.1
th		5.9	297.8
W		6.2	297.5

30372

Richmond

64

25' n of Cleveland

W	303.7	6.1	297.6
th		5.9	297.8
Y		5.6	298.1
b		5.0	298.7
Y		5.5	298.2
b		4.8	298.9
E		4.3	299.4

50' n of Cleveland

E		4.3	299.4
th		4.7	299.0
Y		5.3	298.4
b		5.0	298.7
Y		5.4	298.3
th		5.6	298.1
W		6.0	297.7

30372

75' n of Cleveland

W	W	303.7	5.8	297.9
bl	bl		5.5	298.2
y	y		5.6	298.1
b	b		4.8	298.9
y	y		5.3	298.4
bl	bl		4.6	299.1
E	E		4.7	299.4

100' n of Cleveland

E	E		4.5	299.2
bl	bl		4.6	299.1
y	y		5.4	298.3
b	b		4.8	298.9
y	y		5.6	298.1
bl	bl		5.3	298.4
W	W		5.7	298.0

30372

Richmond

65

125' n of Cleveland

W	W	303.7	5.6	298.1
bl	bl		5.5	298.2
y	y		5.5	298.2
b	b		4.8	298.9
y	y		5.6	298.1
bl	bl		4.7	299.0
E	E		4.6	299.1

150' n of Cleveland

E	E		4.6	299.1
bl	bl		4.9	298.5
y	y		5.4	298.3
b	b		5.8	297.9
y	y		5.3	298.4
bl on bl	bl on bl		5.8	297.9
W	W		5.5	298.2

Side walk + curb in W side in 1/200
this block

3037c

175 n of Cleveland

W	W	303.7	55	298.2
bl	bl		57	298.0
Y	Y		52	298.5
b	b		48	298.9
Y	Y		55	298.2
bl	bl		48	298.9
E	E		47	299.0

200 n of Cleveland

E	E		48	298.9
bl	bl		51	298.6
Y	Y		53	298.4
b	b		49	298.8
Y	Y		57	298.6
bl	bl		56	298.1
W	W		54	298.3

TP 5.99 30419 5.50 298.20

30419

Richmond

68

225 n of Cleveland

W		304.2	56	298.6
bl			60	298.2
Y			53	298.9
b			52	299.0
Y			54	298.8
			39	300.3
			49	299.3
E			55	298.7

250 n of Cleveland

E			37	300.5
bl			46	299.6
Y			55	298.7
b			50	299.2
Y			53	298.9
bl			57	298.3
W			56	298.6

30419

275° n of Cleveland

w	w	304.2	5.3	298.9
bl	bl		5.8	298.4
y	y		5.1	299.1
b	b		5.0	299.2
y	y		5.4	298.8
ll	ll		4.7	299.5
E	E		4.5	299.7

302.6' n = Sd Handicks on west

E	E		4.8	299.4
ll	bl		4.9	299.3
y	y		5.5	298.7
b	b		5.0	299.2
y	y		5.4	298.8
ll	bl		5.2	299.0
w	w		5.4	298.8

30419

350° n n E sin

E		304.2	5.0	299.2
(W.?)		302.6' n n	5.8	298.4
		396' n n	5.2	
E			5.8	298.4
ll			5.2	299.0
y			5.8	298.4
b			5.6	298.6
y			5.8	298.4
ll			5.5	298.7
w			5.4	298.8

Richmond

67

8/11 Day
 11/11 Day
 X Sec of Ingals St (60')
 S line of Washington to 2nd Douglas

1063 26800 257.36

S. E. of Washington

W			
ll	W	75	
4	ll	75	
6	4	83	
	4	81	
4	6	80	
ll	4	84	
E	ll	84	
	ll	85	
E	E	83	
E			(S line of Washington to 4th Park)
ll	E	88	259.2
4	ll	85	259.5
6	4	82	259.8
4	6	75	260.5
ll	4	63	261.7
W	ll	52	262.8
		45	263.5
		45	266.8
W		07	267.3

+5
+1

26800

Ingals

68

25 57 Washington

W			
ll			
4			
6			
4			
ll			
E			

+7
48

50 56 Washington

E			
ll			
4			
6			
4			
ll			
W			

268^m

75' S of Wash

W	W	38	264.2
ll	ll	50	263.0
4	4	57	262.3
6	6	70	261.1
4	4	74	260.6
ll	ll	83	259.7
E	E	93	258.7

100' S of Wash

E	E	111	256.9
ll	ll	102	257.8
4	4	91	258.9
6	6	82	259.8
4	4	75	260.5
ll	ll	62	261.8
W	W	55	262.8

268^m

125' S of Washington

W	W	66	261.4
ll	ll	74	260.6
4	4	81	259.9
6	6	93	258.7
4	4	105	257.5
ll	ll	120	256.0
E	E	134	254.4

150' S of Wash

E	E	168	251.2
ll	ll	133	254.7
4	4	115	256.5
6	6	100	258.0
4	4	91	258.9
ll	ll	86	259.4
W	W	75	260.5

Ingalb

69

26800

175 S of Washington

W	W			80	260.0
ll	ll			89	259.1
4	4			97	258.3
6	6			107	257.3
4	4			117	256.3
ll	ll			139	255.0
E	TD	264	26000	1063	25736
	E			79	252.1
E		200	S of Wash		
ll	E			58	254.2
4	ll			40	256.0
6	4			32	256.8
4	6			24	255.6
ll	4			17	258.3
W	ll			14	258.6
	W			10	259.0

26000

225 S of Washington

W				17	258.3
ll				22	257.8
4				25	257.5
6				34	266.6
4				42	255.8
ll				54	254.6
E				73	252.7

250 S of Washington

E				109	249.1
ll				82	251.8
4				58	254.2
6				48	255.2
4				43	255.7
ll				32	256.8
W				32	256.8

Invals
m 0

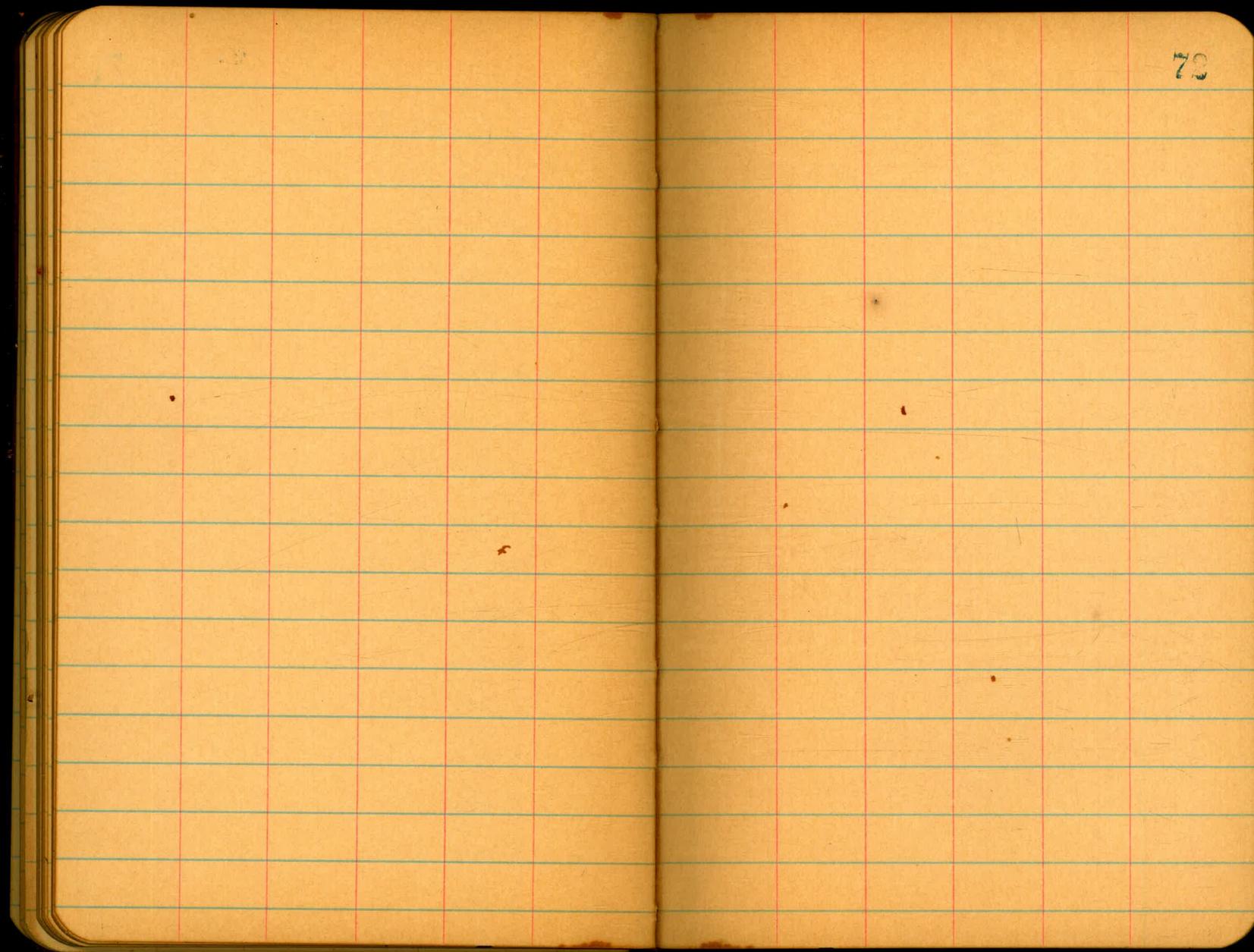
275' S of Washington

W		4,6	255.4
H		5,8	254.2
y		7,3	252.7
b		9,2	250.7
y		11,5	248.5
H		13,3	246.7
E		19,0	241.0

TP 350 25232 11,8 248.82

300' S = n. of Douglas

E		13,3	239.0
H		11,4	240.9
y		9,6	242.7
b		7,0	245.3
y		4,8	247.5
H		3,5	248.8
W		2,5	249.8

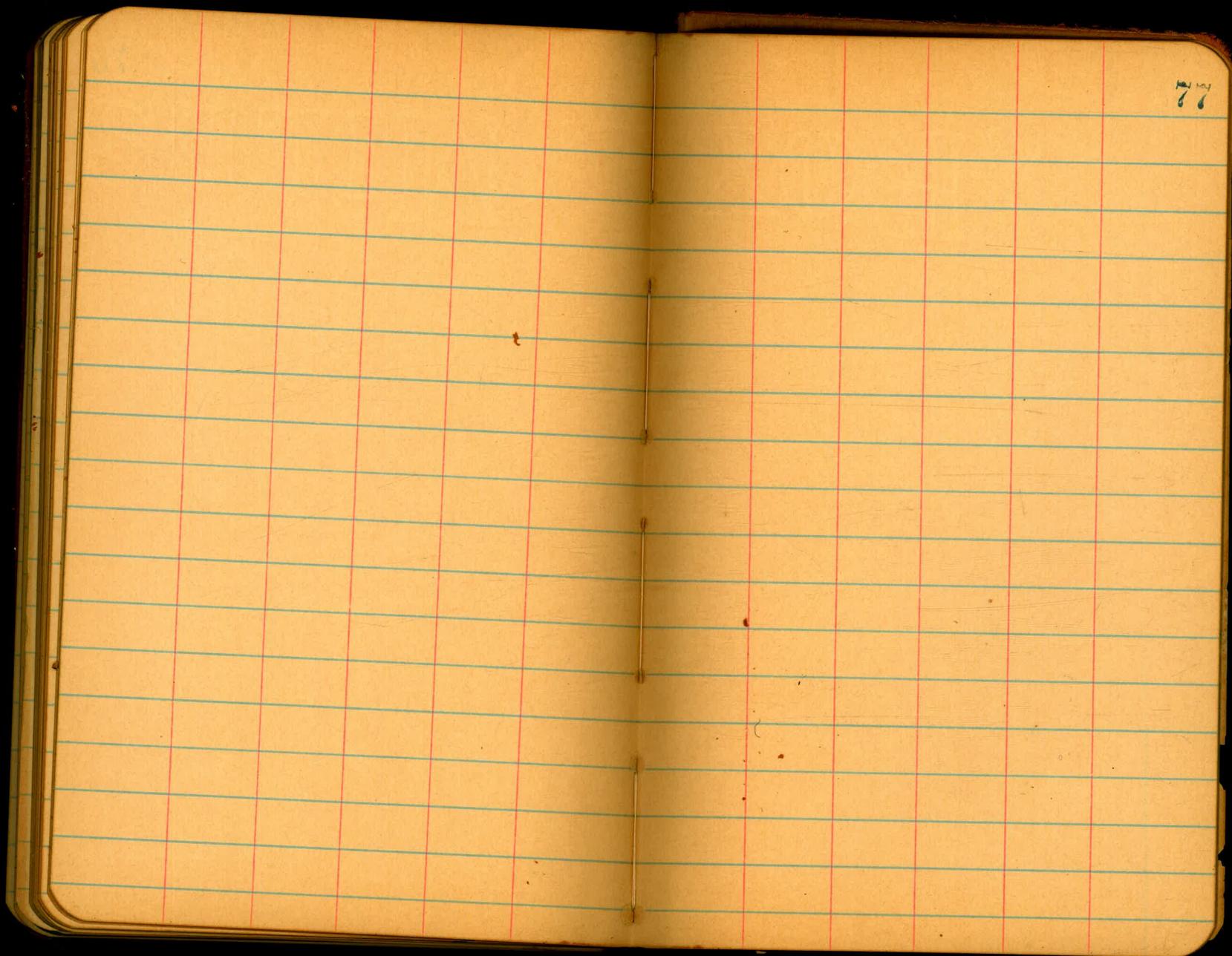


73

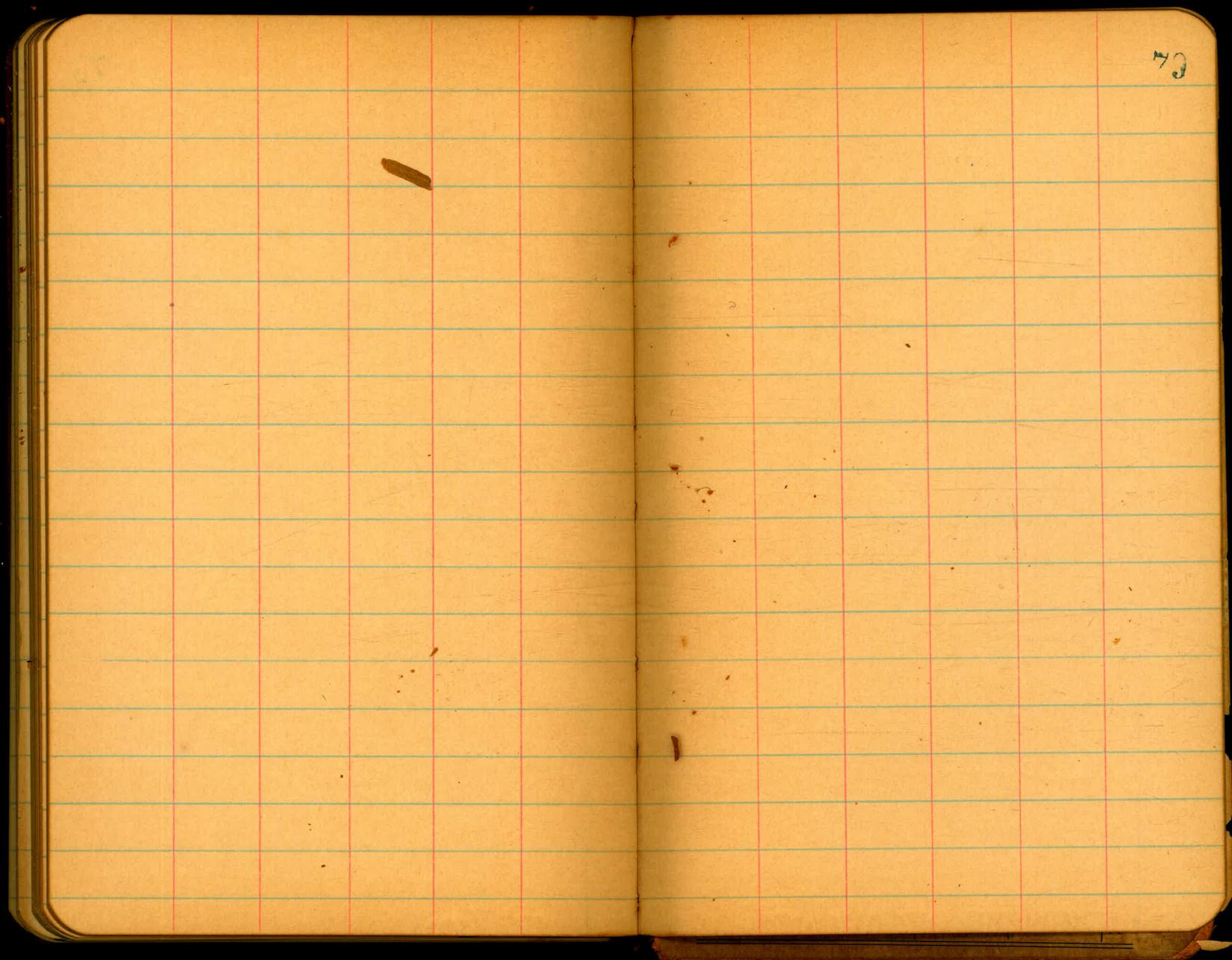
74

75

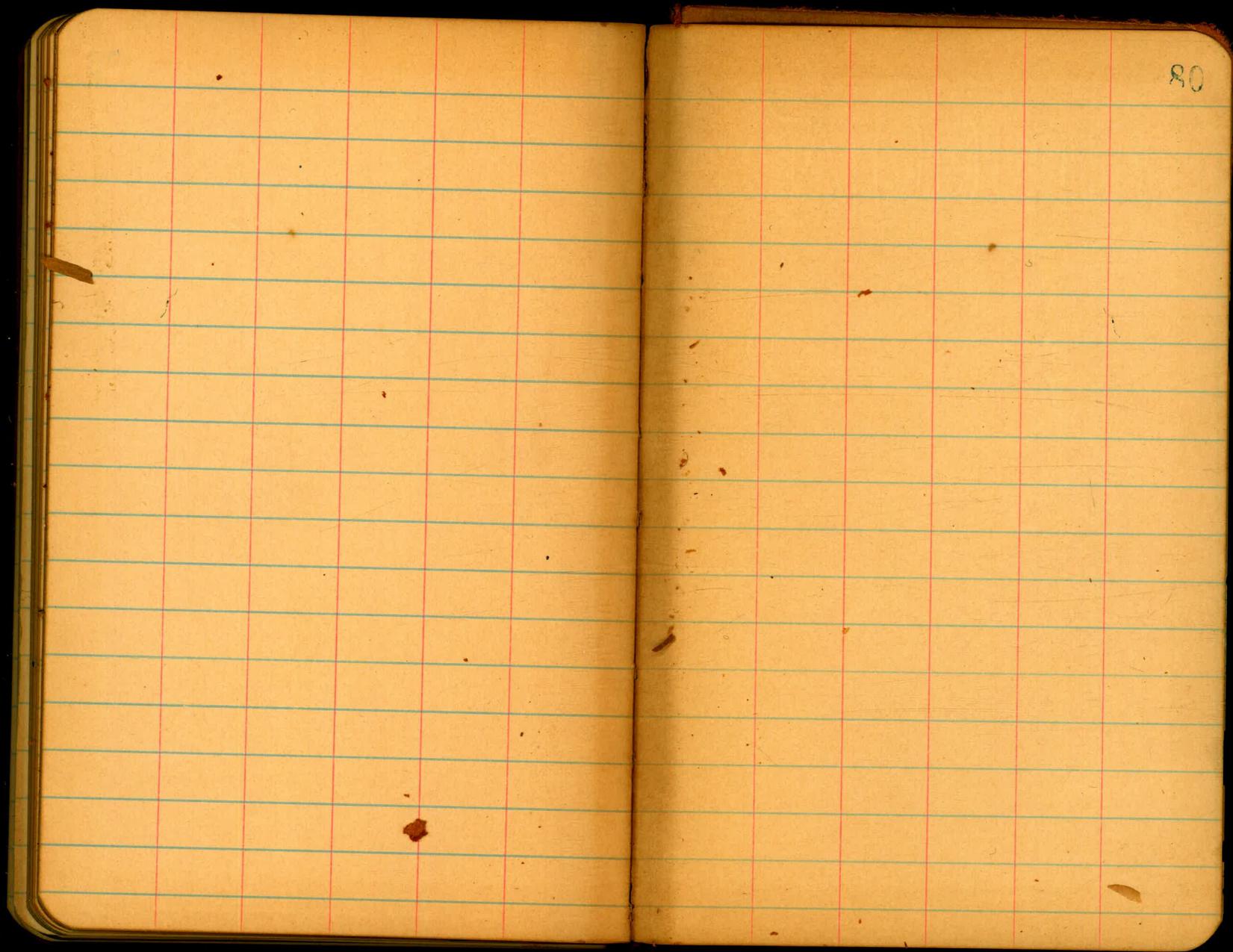
76

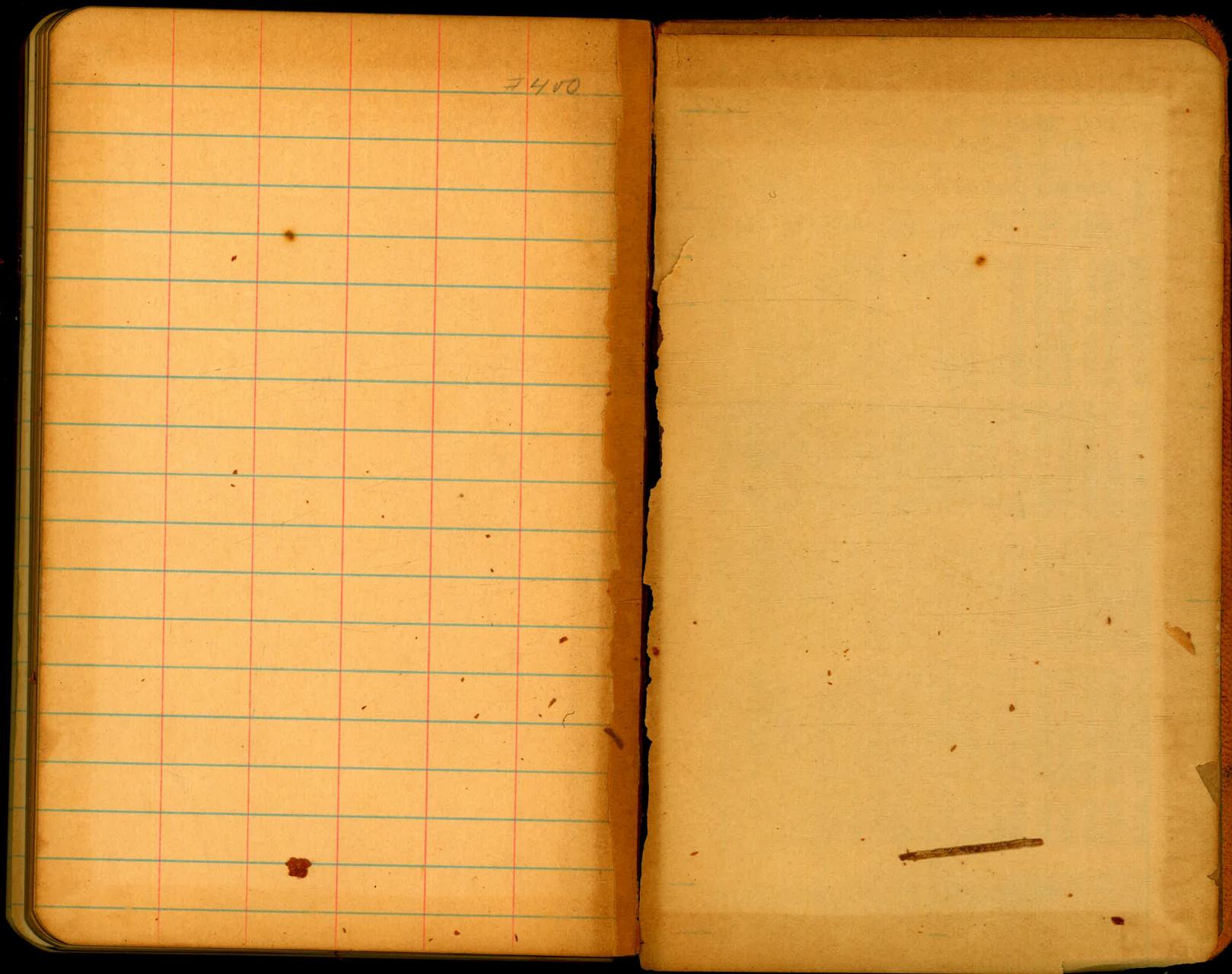


73



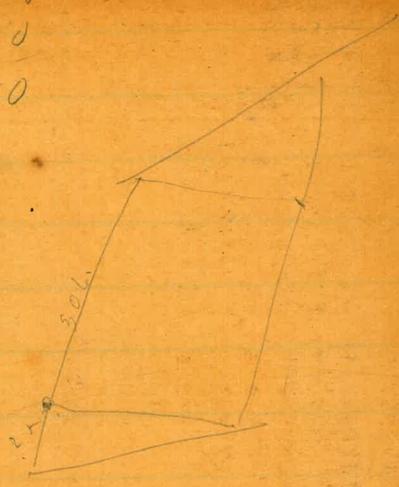
79





7450

Pac 80
 230
 50



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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							