

- C. H. Bryson -  
- Personal -

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FIELD BOOK

361 S

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W108

# KEUFFEL & ESSER CO.

## DRAWING MATERIALS

AND  
SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

### Tables for Excavations and Embankments.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.  
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.  
FOR SINGLE TRACK EXCAVATION.

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

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	0
1	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	1
2	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	2
3	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	3
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5
6	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	6
7	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	7
8	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	8
9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	9
10	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	10
11	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	11
12	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	12
13	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	13
14	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	14
15	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	15
16	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	16
17	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	17
18	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	18
19	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	19
20	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	20
21	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	21
22	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	22
23	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	23
24	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	24
25	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	25
26	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	26
27	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	27
28	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	28
29	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	29
30	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	30
31	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	31
32	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	32
33	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	33
34	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	34
35	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	35
36	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	36

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

FOR KEITH'S RAILROAD CURVE TABLES SEE END OF BOOK

4

A page with horizontal blue lines and three vertical red margin lines. The page is otherwise blank.

5

A page with a green grid pattern and a vertical red margin line. The page is otherwise blank.

6

A page with horizontal blue lines and four vertical red margin lines. The page is otherwise blank.

7

A page with a grid of blue lines and one vertical red margin line. The grid consists of 20 columns and 25 rows. The page is otherwise blank.

8

A page with horizontal ruling and three vertical red margin lines. The page is otherwise blank.

9

A page with a grid pattern and a vertical red margin line. The grid is approximately 20 columns wide and 25 rows high. The page is otherwise blank.

11/9	1 qt	Mob. A	30
12/1	6 "	" "	120
12/2	2 "	" "	60
1/10	2 "	" "	60
2/8	1 "	" "	30
2/15	1 "	Yeedol	25
3/8	1 "	Mob A	30

12

13

A grid of 20 columns and 20 rows on page 13. The grid is formed by light blue lines. A vertical red margin line is positioned on the left side of the grid, approximately one-fifth of the way across the page. The grid is otherwise empty.

14

This page features horizontal blue ruling lines spaced evenly down the page. There are four vertical red lines that create five columns of varying widths. The columns are roughly equal in width, with the outermost columns being slightly narrower than the inner three.

15

This page features a grid of small squares formed by light blue lines. A single vertical red line is positioned on the left side of the page, creating a narrow margin. The grid covers the majority of the page area.



16

17

A ledger page with 5 vertical red lines and horizontal blue lines. The lines create 4 columns of varying widths. The page is otherwise blank.

A ledger page with 1 vertical red line and a grid of horizontal blue lines and vertical green lines. The grid is approximately 20 columns wide and 25 rows high. The page is otherwise blank.

This page is ruled with horizontal blue lines and four vertical red margin lines, creating five columns. The page is otherwise blank.

This page features a grid pattern of light blue lines. A single vertical red margin line is positioned on the left side of the grid. The page is otherwise blank.

MSC. Egpt.

 $\frac{1}{4}$  2- 32x3 $\frac{1}{2}$  Need Two chains 6.80

22

7

23

A grid of 20 columns and 20 rows on page 23. The grid is formed by light blue lines. A vertical red margin line is positioned to the left of the grid, and a vertical red margin line is positioned to the right of the grid. The grid is currently empty.

24

A page of lined paper with four vertical red margin lines and horizontal blue lines. The page is blank.

25

A page of graph paper with a grid of small squares and a vertical red margin line. The page is blank.

A page with horizontal ruling and three vertical red margin lines. The page is otherwise blank.

A page with a grid pattern and a vertical red margin line. The grid consists of 20 columns and 25 rows. The page is otherwise blank.

This page features horizontal blue ruling lines spaced evenly down the page. Four vertical red lines are drawn to create margins: one on the left side, one on the right side, and two in the center. The page is otherwise blank.

This page is filled with a grid of small squares, typical of graph paper. The grid consists of 20 columns and 25 rows of squares. A single vertical red line is drawn down the page, positioned approximately one-third of the way from the right edge. The page is otherwise blank.

## Tires

11/24	Inside Boot	60
	Outside Boot Lacing	25
12/2	Tire Valves	30
	Tire left rear (14230)	24 24
	" & Tube (right rear) (14285)	27 07
May	Penna Tire & Tube (16021)	29.09

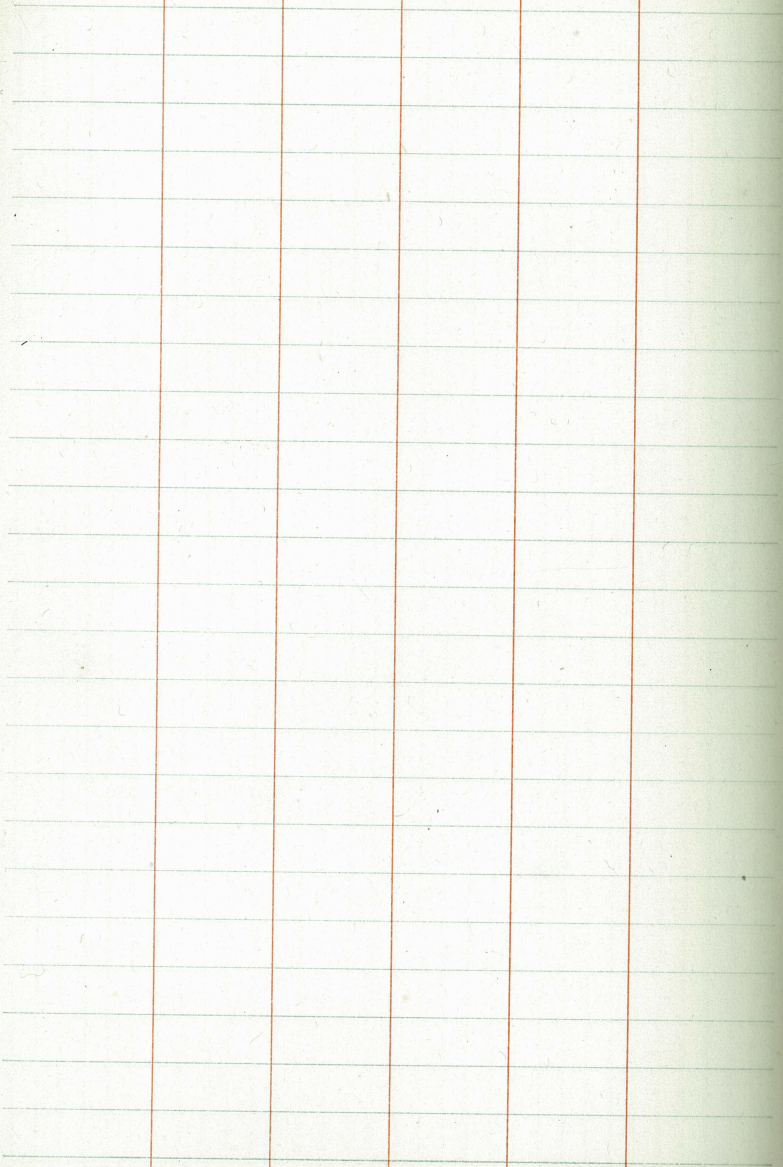


32

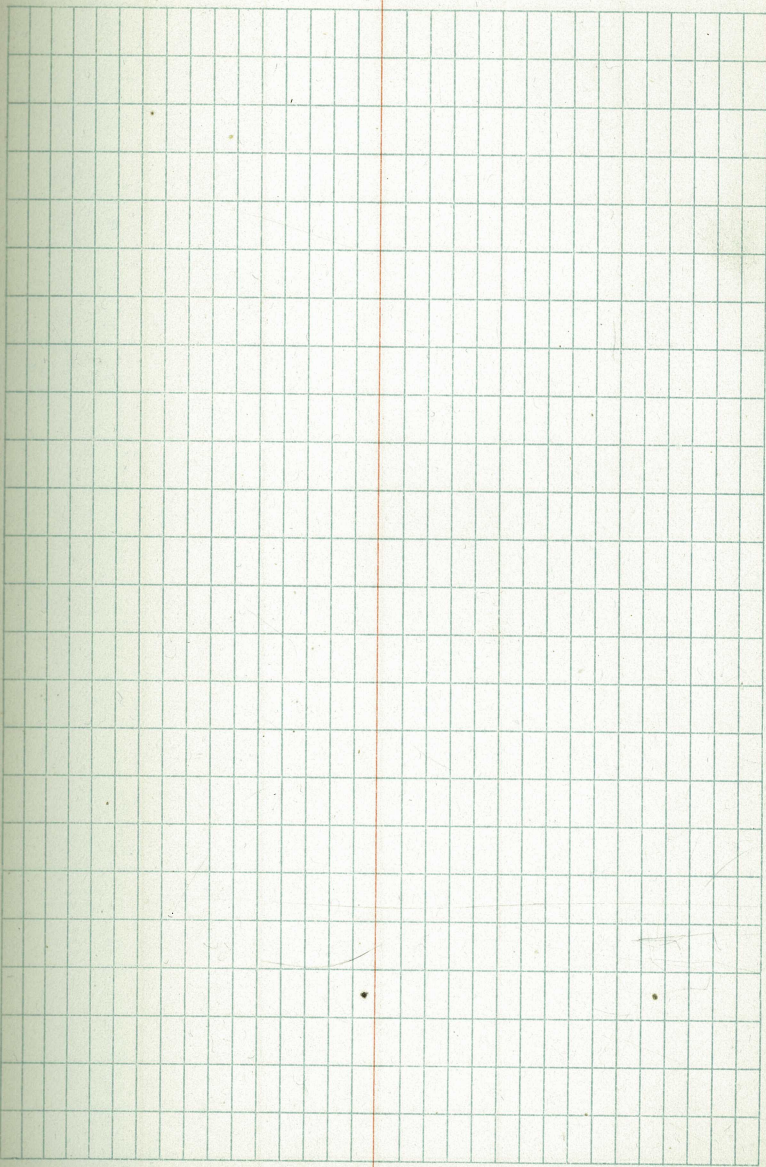
33

A grid of 20 columns and 20 rows, used for calculations or data recording. The grid is formed by light blue lines on a cream-colored page. A vertical red margin line is visible on the left side of the grid.

34



35



A ledger page with 5 vertical red lines and horizontal blue lines. The lines create 4 columns of varying widths. The page is otherwise blank.

A ledger page with a grid of blue lines and a vertical red line. The grid is 18 columns wide and 25 rows high. The red line is positioned between the 10th and 11th columns. The page is otherwise blank.

38

39

A grid of 20 columns and 20 rows on page 39. The grid is formed by light blue lines. A vertical red margin line is located on the right side of the page, approximately one-third of the way from the right edge. The grid covers the majority of the page area.

## Tires Electrical Work

11/24	Inside Boot	.60
"	Outside Boot Facing	.25
11/24	Repairs to wiring system	3.50
	Fuse	.10
12/5	Repairs	1.50
12/10	"	2.70
12/19	Spark Plug	1.50
12/23	Storage Bat. Repairs	15.00
2/15	Generator "	25.26

## Tires Electrical Work

11/24	Inside Boot	60
"	Outside Boot Facing	25
11/24	Repairs to wiring system	3.50
	Fuse	10
12/5	Repairs	1.50
12/10	"	2.70
12/19	Spark Plug	1.50
12/23	Storage Bat. Repairs	15.00
2/15	Generator "	25.26

42

This page features horizontal blue ruling lines. It is divided into four vertical columns by three red lines. The columns are of varying widths, with the two inner columns being the narrowest. The page is otherwise blank.

43

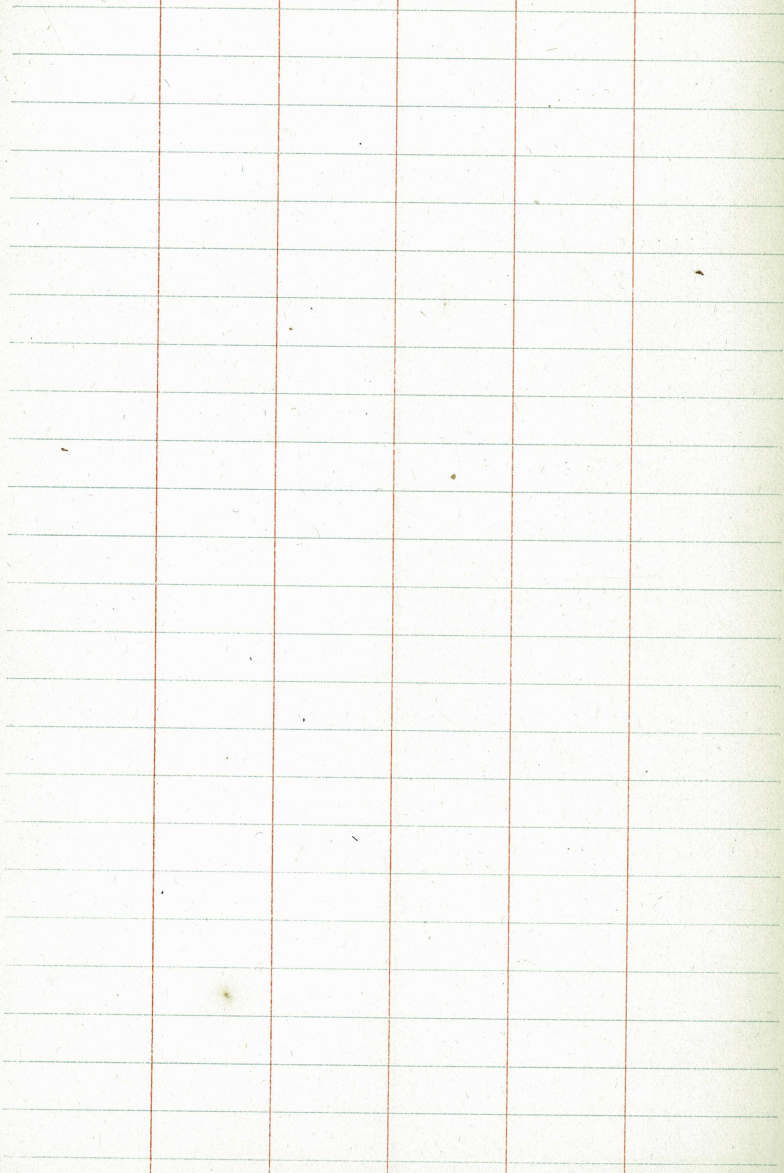
This page features horizontal blue ruling lines. A single vertical red line is positioned on the right side of the page. The area to the right of this line is filled with a grid of small squares, typical of a ledger for recording numerical data. The page is otherwise blank.

This page is a ledger-style sheet with horizontal blue ruling. It features three vertical red lines that create four columns of varying widths. The columns are approximately 15%, 35%, 35%, and 15% of the page width from left to right. The page is otherwise blank.

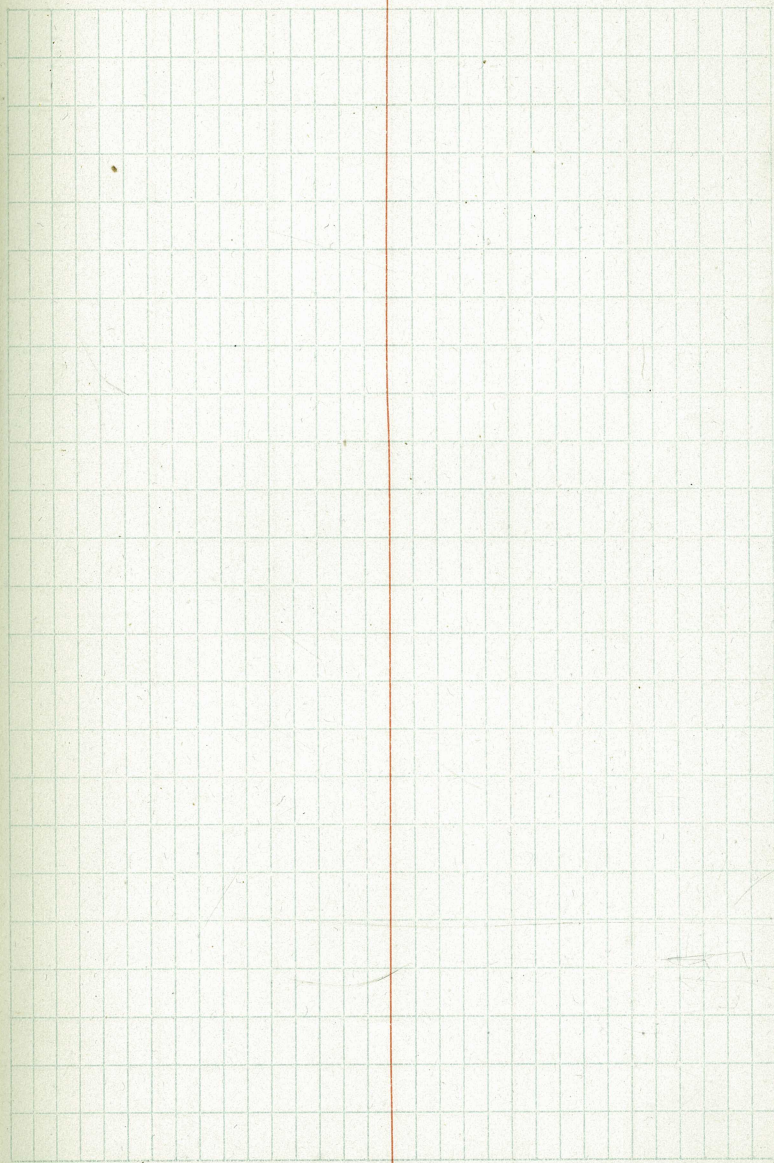
This page is a ledger-style sheet with horizontal blue ruling. It features a single vertical red margin line on the left side, creating a narrow left margin and a large main area. The main area is filled with a light blue grid pattern, consisting of small squares. The page is otherwise blank.



46



47



48

49

A grid of 20 columns and 20 rows on page 49. The grid is composed of thin blue lines. A vertical red margin line is located on the left side of the grid, approximately one-fifth of the way from the left edge of the page.

11/24	Box Valve Gr. Comp	25
12/19	Radiator	85
2/10	Gasket	3 00
2/12	Repairs-Petcock etc	<del>5 85</del>
12/30	Pet Cock	90
3/2	Spring Repairs	1 00

52

53

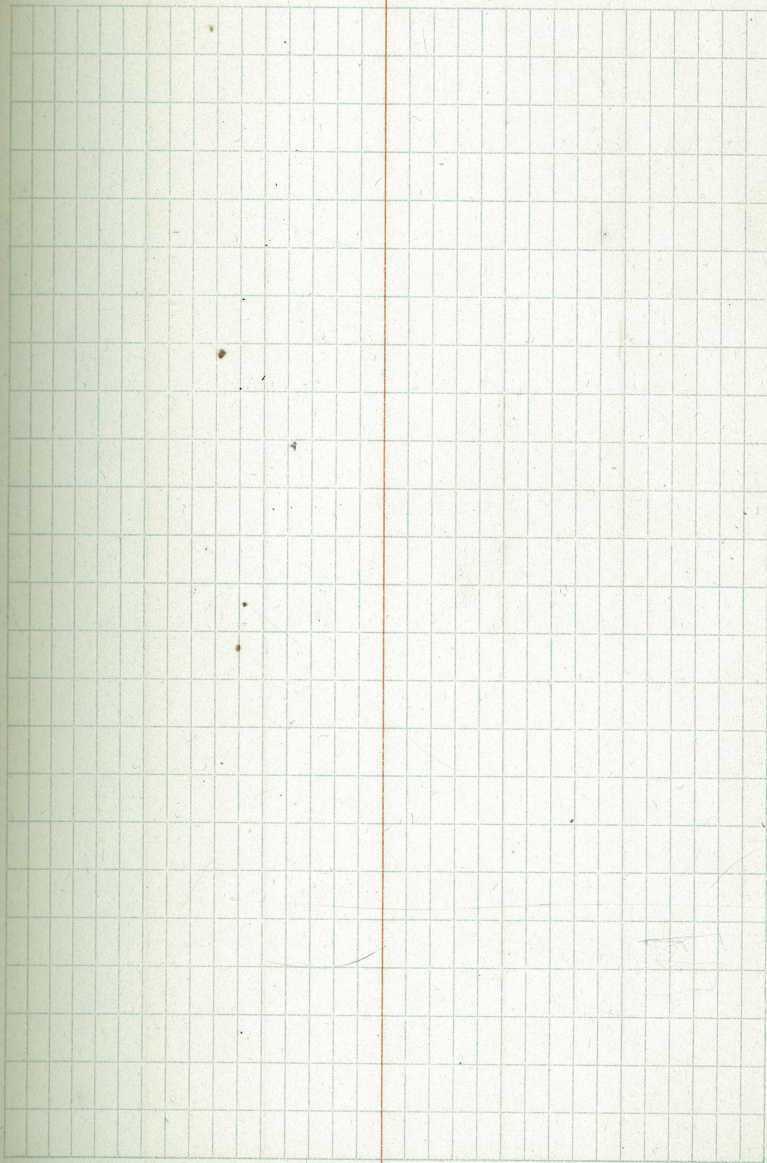
A grid of 20 columns and 20 rows on page 53. The grid is formed by light blue lines. A vertical red margin line is located on the left side of the grid, approximately one-fifth of the way across the page. The grid is empty.

A ledger-style table on page 54. It features 5 vertical red lines that create 5 columns of varying widths. The table is filled with horizontal blue lines, creating a grid of 25 rows. The columns are approximately 15%, 20%, 25%, 20%, and 20% of the page width from left to right.

A grid-style table on page 55. It features a single vertical red line on the left side, creating one wide column on the left and a large grid area on the right. The grid area is defined by 19 vertical blue lines and 25 horizontal blue lines, forming a 20x25 grid of small squares.

56

57



A page with horizontal blue lines and four vertical red margin lines. The page is otherwise blank.

A page with a grid of blue lines and one vertical red margin line. The page is otherwise blank.

Blank lined page with four vertical red margin lines.

Blank grid page with a vertical red margin line on the left side.



This page is ruled with horizontal blue lines and features four vertical red margin lines, creating five columns of varying widths. The page is otherwise blank.

This page is ruled with a grid of blue lines, forming a grid of approximately 20 columns and 25 rows. A single vertical red margin line is positioned on the left side of the grid. The page is otherwise blank.

64

A ledger page with horizontal ruling and four vertical red margin lines. The page is otherwise blank.

65

A ledger page with horizontal ruling, a vertical red margin line, and a large grid area. The grid is approximately 20 columns wide and 25 rows high. The page is otherwise blank.

66

67



This page features horizontal blue ruling lines spaced evenly down the page. Four vertical red lines are drawn to create four columns of varying widths: a narrow left margin, a wide central area, and two narrow right margins. The page is otherwise blank.

This page features horizontal blue ruling lines. A single vertical red line is drawn on the right side, creating a narrow right margin. The majority of the page is filled with a fine grid of light blue lines, forming a large table with many small cells. The page is otherwise blank.

A page with horizontal blue lines and four vertical red margin lines. The margins are located at approximately 10%, 15%, 85%, and 90% of the page width from the left edge.

A page with a grid pattern and a vertical red margin line. The grid consists of 20 columns and 25 rows of small squares. The vertical red margin line is located at approximately 65% of the page width from the left edge.

A grid of 20 columns and 20 rows on page 73. The grid is formed by light blue lines. A vertical red margin line is positioned on the left side of the grid, approximately one-fifth of the way across the page. The grid is empty.

A ledger page with horizontal ruling and four vertical red margin lines. The page is otherwise blank.

A ledger page with horizontal ruling, a vertical red margin line, and a grid of small squares. The page is otherwise blank.





The table on page 79 is a grid with 20 columns and 25 rows. A vertical dashed line is drawn in the second column from the left. There are some faint blue markings in the lower half of the grid, including a horizontal line in the 15th row and some illegible scribbles in the 18th and 19th rows.

70 Mileage run for City.

Date	Description	Chq
11/20	Upper Otay & Ret. Cem.	7 <sup>✓</sup> BD
11/21	" " " "	7 <sup>✓</sup> "
11/21	" " " "	7 <sup>✓</sup> "
11/24	" " " "	7 <sup>✓</sup> "
11/30	" " " "	7 <sup>✓</sup> "
11/30	" " " " Air hose	7 <sup>✓</sup> "
12/2	" " " "	7 <sup>✓</sup> "
12/3	" " " "	7 <sup>✓</sup> "
12/7	Harvey Ranch & Return (Roads)	10 <sup>✓</sup> "
12/19	San Diego & Return Orders H.E.	42 <sup>✓</sup> LOD
12/22	Upper Otay & Return Cement	7 <sup>✓</sup> B.D.
1/5	Trip to near Mahms & return with men from Purch. Dept. Truck & trip for mule team	16 B.D.
1/10	L.O.D. to City for men	42 " "
1/17	L.O.D. To Harvey Bridge with crusher truck orders HYS	15
1/18+19	LOD to Harvey Bridge following #8 crusher - 3 Round trips & Msc. driving	40
2/4	L.O.D. to S.D. & return (Men)	11.3
2/7	" " " " Hyd. Engrs Ord.	42
2/15	L.O.D. To Dr. Fly-ing. Carp Heath	32
2/18	L.O.D. to City Hall for loadmen.	42
2/28	L.O.D. to Jamal Ranch for stock	30
3/1	L.O.D. To Harvey Ranch & Return Road Work	13
3/3	" " " " " "	13
	Request 3/4	214

81

3/4	L.O.D. to Daleys, Upper Otay, Harvey Ranch & Mahms after Plow	21	21
3/12	L.O.D. To Jamal Sect. w/ Imp. Val. Highway after Powder Mess Supplies and draining water off road on return	24	24
	Request 3/13.		45

3/16	To near Harvey Ranch & return accompanying H.E.	13
4/1	L.O.D. to Jamal Ranch for teamster returning stock.	30
4/5	L.O.D. To Minnewahwah lodge & return taking Timbers & Jacks to Powelsons track stock in mud hole	20
4/6	L.O.D. To Minnewahwah lodge & return taking timbers & men to Powelsons track stock in mud hole	20
4/15	Trip to U.O.D. & return w/ men sacking broken cement & salvaging lumber	7 miles
4/17	Ditto	7 "
4/29	Trip To St. Jas. Hosp. w/ inj. man	86

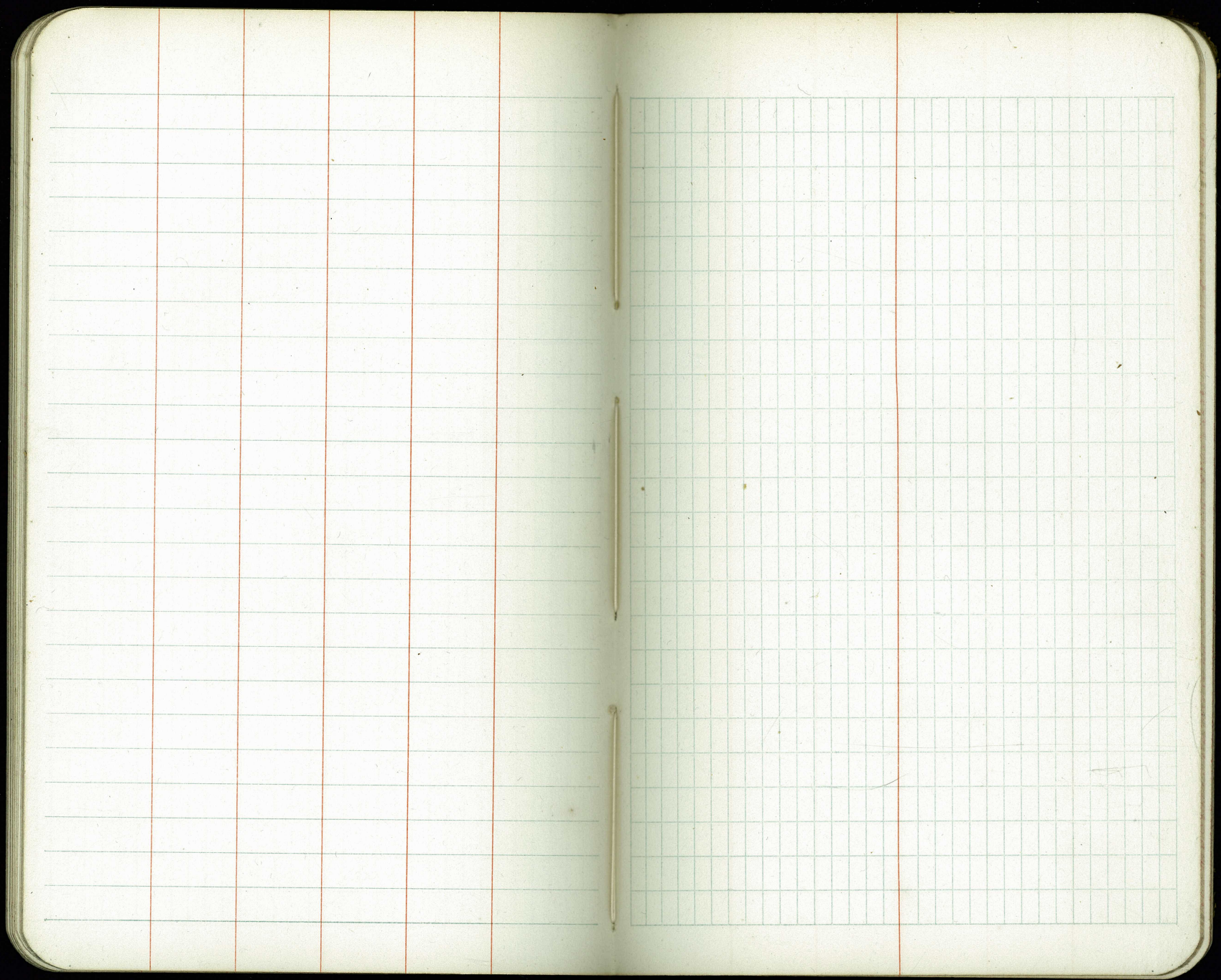
6/3 Trip to Barrett Siding & return  
 via Cottonwood w/ Supt. Paddock  
 reg. 6/5 41@10 4.10

7/15 Trip to San Diego & Return  
 Hyd. Engrs Orders 8.60

7/19 Trip to Delzora, Donahues  
 & return Hyd Engrs Orders 3.60  
 Reg. 7/20 12.20

8/3 Trip with Supt. Paddock  
 up Hauser Creek Canyon  
 Road to Descanso road &  
 return 28@10 2.80

8/4



make request on City  
 atty for appropriate resolution  
 from Water Com + Council  
 for money reqd.

60,000<sup>00</sup>

Water from dam  
 showing bottom  
 length of cable.

Est. on sand available  
 Dam - Sample every 500  
 ft.

Photograph

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE SIDE SLOPES 1 1/2 TO 1.

FOR SINGLE TRACK EMBANKMENT.

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

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