

W  
430

REVUE BOU

373 A

# 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.

430

MICROFILMED

JAN 12 1965

Chocolate Creek Area

Silt Deposit X-Section

Survey by Contractor eng. crew

Notes for city by P.O.G.

INDEX

N 2600 - 3310

E 10910 - 11100

P-1-72

N 2500 -

E 10510 - 10700

P-73-

MICROFILMED

JAN 15 1982

N2600

653.17  
~~653.30~~

①

E10910	12.9
20	12.0
30	11.4
40	10.5
50	10.1
60	9.5
70	9.1
80	8.6
90	8.2
11000	7.5
10	6.9
20	6.5
30	5.8
40	5.0
50	4.3
60	3.8
70	3.1
80	2.7
90	2.0
11100	1.1

Delany 10.09 53.17  
 correction 10.22 ~~653.30~~ 643.08  
 for 100' shot

Beginning of work Feb. 21-33

Notes for city by P.G.G.

Delany - Chief }  
 Kerney Rd } contractors chg. crew  
 Clavert \* }  
 Wade Rd }

N26.0

653.17

2-21-33

②

E11100	1.3
11090	2.1
80	2.9
70	3.5
60	4.1
50	4.8
40	5.3
30	5.9
20	6.6
10	7.2
11000	7.7
990	8.3
80	8.9
70	9.4
60	9.9
50	10.6
40	10.9
30	11.4
20	12.0
10910	12.8

N2620

653.17

2-21-33

(3)

E10910	13.0
20	12.4
30	11.6
40	11.5
50	11.0
60	10.4
70	9.6
80	9.1
90	8.4
11000	8.0
10	7.6
20	7.0
30	6.3
40	5.4
50	4.9
60	4.2
70	3.8
80	3.0
90	2.4
111000	1.6

NZ630

④

653.17

2-20-33

E11100	2.0
11090	2.6
80	3.3
70	4.0
60	4.5
50	5.1
40	5.6
30	6.3
20	7.0
10	7.9
11000	8.6
10990	9.0
80	9.5
70	9.9
60	10.7
50	11.1
40	11.7
30	12.3
20	12.9
10910	13.4

N2640

653.17

2-21-33

E10910	13.6
20	13.0
30	12.6
40	11.8
50	11.5
60	10.9
70	10.4
80	9.6
90	9.0
11 000	18.5
10	7.9
20	7.1
30	6.4
40	5.9
50	5.2
60	4.6
70	4.0
80	3.3
90	2.8
11100	2.3

N2650

653.17

2-21-73

E11100	2.9
11090	3.3
80	3.5
70	4.7
60	5.0
50	5.4
40	6.0
30	6.6
20	7.2
10	7.9
11000	8.5
10990	9.0
80	9.5
70	10.3
60	11.0
50	11.7
40	12.4
30	12.9
20	13.3
10910	13.8

N2660

653.17

2-21-33

②

E10910	14.4
20	13.7
30	12.9
40	12.1
50	11.5
60	10.9
70	10.3
80	9.5
90	8.9
11000	8.5
10	7.9
20	7.3
30	6.7
40	6.2
50	6.0
60	5.4
70	4.7
80	4.1
90	3.8
11100	3.4

N2670

②

653.17

2-21-33

E11100	4.1
11090	4.6
80	4.8
70	5.1
60	5.6
50	6.2
40	6.7
30	7.2
20	7.7
10	8.0
11000	8.3
10990	8.7
80	9.2
70	10.0
60	10.5
50	11.5
40	12.0
30	12.7
20	13.4
10910	14.2

N 2680

653.17

2-21-33

E10910 14.1

20 13.3

30 12.6

40 11.9

50 11.2

60 10.7

70 10.0

80 9.4

90 9.0

11000 8.6

10 8.4

20 7.8

30 7.2

40 6.7

50 6.1

60 5.7

70 5.4

80 5.3

90 5.2

11100 5.0

N2690

(10)

653.17

2-21-33

E11100	5.8
11090	5.8
80	5.8
70	5.9
60	5.9
50	6.3
40	6.5
30	7.2
20	7.7
10	8.1
11000	8.6
10990	9.0
80	10.0
70	10.7
60	11.0
50	11.5
40	11.9
30	12.6
20	13.3
10910	14.0

N2700

(11)

653.17

2-21-33

E10910	14.0
20	13.6
30	13.0
40	12.4
50	11.8
60	11.2
70	10.7
80	9.8
90	9.1
11000	8.6
10	8.2
20	7.7
30	7.5
40	7.0
50	6.5
60	6.1
70	6.4
80	6.4
90	6.5
11100	7.3

653.17

9.92

643.25

2.67

645.92

N2710

(12)

64592

2-21-33

E111000	0.4
11090	0.6
80	1.0
70	0.0
60	+0.2
50	+0.2
40	0.3
30	0.5
20	0.7
10	1.1
11000	1.7
10990	2.1
80	2.8
70	3.6
60	4.0
50	4.6
40	5.3
30	5.8
20	6.4
10910	7.2

N2720

64592

E10910	7.1
20	6.4
30	5.7
40	5.3
50	4.7
60	4.2
70	3.7
80	2.9
90	2.9
11000.	2.0
10	1.5
20	1.2
30	1.1
40	0.9
50	0.6
60	0.5
70	2.2
80	1.8
90	0.6
11100	+0.2

2-21-33

(13)

N2730

645.92

E11100 0.0

11090 0.7

80 1.5

70 1.9

60 3.1

50 1.5

40 1.6

30 1.7

20 1.8

10 1.8 1

11000 2.3

10990 2.9

80 3.4

70 3.8

60 4.4

50 4.8

40 5.3

30 5.8

20 6.4

10910 7.0

2-21-33

(14)

N2740

(15)

645.92

2-21-33

E10910

7.3

20

6.8

30

6.2

40

5.6

50

5.0

60

4.6

70

4.1

80

3.6

90

3.4

11000

2.7

10

2.3

20

2.3

30

2.5

40

2.7

50

3.0

60

3.1

70

2.3

80

1.5

90

0.9

11100

0.0

N2750

645.92

2-21-33

(6)

El 100 + 0.1

90 0.7

80 1.8

70 2.4

60 3.1

50 3.4

40 3.6

30 3.5

20 3.3

10 3.2

11000 3.3

90 3.5

80 3.9

70 4.3

60 4.9

50 5.3

40 5.8

30 6.3

20 7.0

10910 7.4

N 2760

(22)

645.92

2-21-33

E 10910	7.8
20	7.2
30	6.6
40	6.0
50	5.6
60	5.2
70	4.7
80	4.4
90	4.2
11000	4.0
10	4.2
20	4.3
30	4.0
40	4.1
50	4.1
60	3.2
70	2.5
80	1.7
90	0.8
100	0.0

N 2770

64592

2-21-33

(P)

E11100	+0.2
090	0.4
80	1.2
70	2.2
60	3.2
50	3.8
40	4.5
30	4.7
20	4.9
10	5.0
11000	4.9
090	5.0
80	5.1
70	5.3
60	5.6
50	6.0
40	6.5
30	6.9
20	7.4
10910	7.9

N 2780

(19)

645.92

2-21-23

E10910 8.3

20 7.9

30 7.5

40 7.2

50 6.6

60 6.2

70 6.0

80 5.7

90 5.6

11000 5.8

10 5.9

20 5.6

30 5.4

40 4.8

50 3.9

60 2.6

70 1.9

80 0.9

90 0.6

11100 0.0

N2790

645.92

E11100	0.2
090	0.7
80	1.4
70	2.2
60	2.9
50	3.2
40	3.8
30	5.1
20	5.9
10	6.3
11000	6.6
990	6.5
80	6.4
70	6.4
60	6.7
50	7.2
40	7.8
30	8.2
20	8.6
10910.	8.8

2-21-23

20

N2800

64592

2-21-33

(21)

E10910

9.6

20

9.3

30

9.1

40

8.3

50

7.6

60

7.4

70

7.1

80

7.1

90

7.3

11000

7.2

10

6.8

20

5.4

30

4.8

40

4.0

50

3.4

60

3.0

70

2.5

80

2.0

90

1.3

11100

0.6

N 2810

(22)

645.92

2-21-33

E11100	0.7
090	1.5
80	2.3
70	2.8
60	3.4
50	3.9
40	4.2
30	4.9
20	5.7
10	6.2
11000	7.2
10990	7.7
80	8.2
70	7.7
60	8.1
50	8.7
40	7.3
30	9.9
20	10.2
10910	10.3

N2820

(23)

64592

2-21-33

E10910	11.2
20	10.2
30	10.3
40	9.7
50	9.2
60	8.7
70	9.1
80	8.4
90	7.5
11000	7.1
10	6.6
20	6.2
30	5.3
40	4.6
50	4.0
60	3.2
70	2.8
80	2.2
90	1.6
11100	0.9

N2830

(24)

645.92

2-21-33

E11100	1.6
090	2.2
80	2.8
70	3.3
60	3.5
50	4.2
40	4.6 *
30	5.4
20	6.0
10	6.7
11000	7.4
990	8.1
80	8.4
70	9.0
60	10.2
50	9.9
40	10.1
30	10.4
20	10.9
10910	11.5

N2840

(23)

64592

2-21-33

E10910	71.6
20	11.3
30	11.0
40	10.9
50	10.6
60	10.1
70	9.1
80	8.5
90	7.9
11000	7.3
10	6.7
20	5.9
30	5.5
40	4.8
50	4.6
60	4.1
70	3.7
80	3.3
90	2.8
11100	2.1

N2850

(26)

645.92

2-21-33

E11100	2.4
090	2.9
80	3.4
70	4.0
60	4.6
50	5.1
40	5.6
30	5.9
20	6.3
10	6.9
11000	7.3
990	7.8
80	8.1
70	8.8
60	9.5
50	10.2
40	11.0
30	11.9
20	12.6
10910	12.3

N2860

(27)

645.92

2-21-33

E10910	12.8
20	12.4
30	11.4
40	10.4
50	9.8
60	9.5
70	8.9
80	8.2
90	7.9
11000	7.6
90	7.1
20	6.8
30	6.3
40	5.9
50	5.3
60	4.9
70	4.3
80	3.6
90	3.0
11100	3.4

N2870

(28)

645.92

2-21-33

Elmoo	2.7
590	3.3
80	3.8
70	4.2
60	5.0
50	5.7
40	6.3
30	6.6
20	7.2
10	7.5
11000	8.0
990	8.7
80	8.6
70	9.2
60	9.5
50	10.0
40	10.3
30	11.2
20	12.0
10910	13.0

N2880

645.92

2-21-33

(29)

E.10910	13.2
20	12.5
30	11.7
40	10.9
50	10.5
60	10.0
70	9.6
80	9.1
90	8.7
11000	8.3
10	7.9
20	7.4
30	6.9
40	6.5
50	5.9
60	5.2
70	4.6
80	3.8
90	3.1
11100	2.4

N2890

645-92

2-21-33

(30)

E11100	3.2
090	3.5
80	3.8
70	4.4
60	5.1
50	6.1
40	6.6
30	7.4
20	7.8
10	8.1
11000	8.4
990	8.9
80	9.6
70	10.1
60	10.5
50	10.9
40	11.5
30	12.1
20	12.8
10910	13.6

N2900

645.92

2-21-33.

(31)

E10910	13.7
20	13.0
30	12.5
40	11.8
50	11.4
60	10.7
70	10.3
80	9.6
90	9.1
11000	8.7
10	8.3
20	7.9
30	6.9
40	6.4
50	6.0
60	5.5
70	5.0
80	4.9
90	4.4
11100	3.8

N 2910

(32)

64592

2-21-33

E 11100	3.8
090	4.6
80	5.6
70	5.8
60	6.3
50	6.8
40	7.2
30	7.6
20	8.1
10	8.4
11000	8.6
990	9.1
80	10.0
70	10.5
60	10.9
50	11.3
40	11.9
30	12.5
20	13.4
10910	14.0

N2920

645.92

2-21-33

33

E10910	13.8
20	13.4
30	12.8
40	12.3
50	11.2
60	10.8
70	10.3
80	9.9
90	9.7
11000	9.5
10	9.1
20	8.8
30	8.2
40	7.6
50	7.2
60	6.7
70	6.6
80	5.6
90	4.7
11100	3.8

N2930

645.92

2-21-33

32

E11100	4.0
090	4.8
80	5.5
70	6.3
60	7.3
50	8.2
40	8.9
30	8.7
20	9.2
10	9.7
11000	10.1
990	10.4
80	10.9
70	11.0
60	11.1
50	11.6
40	12.0
30	13.2
20	13.8
10910	14.3

645.92  
 12.03  
 633.89  
 8.07  
 641.96

N 2940

641.96

E10 910

10.0

20

9.5

30

9.4

40

9.2

50

8.8

60

8.3

70

7.9

80

7.3

90

6.9

11000

6.6

10

6.2

20

5.9

30

5.9

40

4.7

50

3.9

60

3.1

70

2.3

80

1.6

90

0.7

111000

0.0

2-21-23

35

N 2950

(36)

641.96

2-21-33

E 11100 +0.1

090 0.7

80 1.6

70 2.4

60 3.3

50 4.1

40 4.8

30 5.6

20 6.7

10 7.0

11000 7.1

990 7.2

80 8.1

70 8.5

60 8.8

50 9.3

40 9.7

30 10.2

20 10.9

10910 11.4

N2960

(37)

641.96

2-21-33

E10910	12.0
20	11.5
30	10.7
40	10.3
50	9.9
60	9.3
70	9.1
80	8.3
90	8.2
11000	8.4
10	7.4
20	6.3
30	5.7
40	5.0
50	4.1
60	3.2
70	2.6
80	1.8
90	0.9
11100	0.0

N2970

(38)

641.91

2.21.33

E 11100	0.5
090	1.3
80	2.0
70	2.8
60	3.6
50	4.1
40	5.1
30	5.8
20	6.4
10	6.9
11000	7.8
990	9.3
80	9.2
70	9.3
60	9.7
50	10.0
40	10.8
30	11.5
20	11.8
10910	12.6

N2980

641.91

2-21-33

99

E10910	13.0
20	12.2
30	11.7
40	11.3
50	10.9
60	10.5
70	10.3
80	10.4
90	8.9
11000	7.7
10	6.9
20	6.6
30	5.7
40	5.3
50	4.7
60	3.9
70	2.9
80	2.2
90	1.7
11100	0.9

N 2990

40

641.91

2-21-33

E 11100	0.9
090	1.7
80	2.4
70	3.1
60	3.9
50	4.8
40	5.5
30	6.3
20	6.9
10	7.4
11000	8.3
990	9.2
80	10.1
70	11.4
60	11.8
50	12.3
40	12.5
30	12.3
20	12.7
10910	13.5

N 3000

64.96

2-21-33

(71)

E10910	13.7
20	13.3
30	13.8
40	13.6
50	12.9
60	11.6
70	10.6
80	10.0
90	9.3
11000	8.6
10	7.8
20	7.3
30	6.6
40	5.7
50	5.0
60	4.2
70	3.2
80	2.5
90	1.7
11100	1.0

N3010

641.96

2-21-33

E11100	1.1
090	1.5
80	2.4
70	3.3
60	4.2
50	5.0
40	5.7
30	6.4
20	7.1
10	8.1
11000	9.0
990	9.5
80	10.2
70	10.7
60	11.1
50	12.0
40	13.1
30	14.7
20	14.3
10910	14.3

N3020

632.64

E10910	5.9
20	6.4
30	5.8
40	4.1
50	3.1
60	2.1
70	2.1
80	1.3
90	0.4

641.96

11000	9.0
10	8.2
20	7.2
30	6.7
40	6.0
50	4.9
60	4.4
70	3.5
80	2.6
90	1.8
11100	1.1

2-21-33

641.96  
12.04  
629.92  
2.72  
632.64

(43)

N3030

641.96

2-21-33

44

E11100		7.1
090		1.8
80		2.6
70		3.7
60		4.5
50		5.3
40		6.1
30		6.6
20		7.4
10		8.3
11000		9.0
990		9.9
80		10.8
70		12.0
60	632.64	3.5
50		4.4
40		5.1
30		6.0
20		7.1
10910		7.1

N3040

63264

2-21-44

(45)

E10910	8.2
20	6.9
30	5.6
40	4.5
50	3.8
60	3.0
70	2.3
80	1.5
90	0.7

64196

11000	9.2
10	8.4
20	7.7
30	6.7
40	6.1
50	5.5
60	4.9
70	3.9
80	3.0
90	1.9
11100	1.1

N 3050

641.96

2-21-33

(46)

E 11100	1.3
090	2.1
80	3.3
70	4.0
60	4.9
50	5.6
40	6.2
30	6.9
20	7.9
10	8.6
11000	9.4
990	10.4
80	11.1
70	12.0
60	3.2
50	4.0
40	4.7
30	5.5
20	6.3
10910	7.6

632.64

N3060

63264

E10910	7.0
20	6.3
30	5.6
40	4.5
50	4.1
60	3.4
70	2.6
80	1.9
90	1.2
11000	0.3

64196

10	8.8
20	8.0
30	7.1
40	6.4
50	5.7
60	4.9
70	4.1
80	3.5
90	2.9
11100	2.2

2-21-33

(47)

N3070

48

641.96

2-21-33

E11100	2.2
090	3.2
80	4.3
70	4.7
60	5.0
50	5.7
40	6.4
30	7.5
20	8.4
10	9.0
11000	10.0
990	10.7
80	11.4
70	12.1
60	132.64
50	3.5
40	4.2
30	5.0
20	5.8
10910	6.5
	7.1

N3080

632.64

E10910	7.4
20	6.6
30	5.5
40	5.3
50	4.4
60	3.8
70	3.0
80	2.3
90	1.7
11000	1.0
10	0.2
20	8.6
30	7.7
40	6.6
50	6.1
60	5.6
70	5.3
80	4.0
90	2.8
11100	1.6

641.96

2-21-33

(49)

N3090

6496

2-21-33

(50)

E11100		1.5
090		2.6
80		3.6
70		4.8
60		5.8
50		7.1
40		7.7
30		8.1
20		8.4
10		9.6
11000		10.4
990		11.2
80		12.0
70	632.64	3.3
60		3.9
50		4.8
40		5.5
30		6.1
20		7.0
10910		7.5

N 3100

(57)

632.64

2-21-33

E 10910	7.6
20	7.0
30	6.3
40	5.5
50	4.9
60	4.2
70	3.4
80	2.5
90	1.5
11000	1.0
10	0.3
20	9.2
30	8.9
40	7.7
50	6.4
60	5.6
70	4.6
80	3.7
90	2.7
11100	1.6

641.96

N 3110

(52)

641.96

2-21-33

E11100	1.6
090	2.8
80	3.8
70	4.8
60	5.7
50	6.6
40	7.6
30	8.3
20	9.5
10	10.1
11000	10.4
990	11.2
80	12.0
70	3.5
60	4.2
50	5.5
40	5.8
30	6.5
20	7.0
10910	7.6

632.6A

N3120

53

632.64

2-21-33

E10910

7.9

20

7.2

30

6.6

40

5.9

50

5.2

60

4.5

70

3.8

80

2.9

90

2.3

11000

2.1

10

1.0

20

0.0

641.96

30

8.4

40

7.7

50

7.0

60

5.8

70

5.2

80

4.2

90

3.3

11100

2.3

N3130

(54)

64.96

2-21-33

E11100		2.7
090		3.6
80		4.7
70		5.4
60		6.0
50		7.1
40		7.7
30		8.5
20		9.3
10		10.4
11000		11.5
990		12.3
80	632.64	3.4
70		4.1
60		4.7
50		5.5
40		6.4
30		7.0
20		7.5
10910		8.1

N 3140

632.64

E 10910

8.7

20

8.1

30

7.3

40

6.6

50

5.9

60

5.2

70

4.4

80

3.9

90

2.9

11000

2.1

10

1.2

20

0.4

241.96

30

8.8

40

8.0

50

7.3

60

6.5

70

5.8

80

5.0

90

3.8

1100

2.9

2-21-33

55

N3150

641.96

E11100 3.0

090 3.9

80 4.9

70 5.6

60 6.9

50 7.7

40 8.7

30 9.5

20 10.2

10 10.9

---

11000 11.7

632.64

990 3.2

80 4.0

70 4.7

60 5.3

50 5.7

40 6.5

30 7.4

20 8.1

10 9.0

2-21-33

(56)

R3160

(57)

632.64

2-21-33

E10910 9.4

20 8.5

30 7.5

40 6.7

50 5.9

60 5.7

70 5.1

80 4.5

90 3.8

11000 3.1

10 2.3

20 1.2

30 0.4

641.96

40 8.7

50 7.8

60 6.8

70 5.9

80 4.9

90 4.3

11100 3.1

N3170

641.96

2-21-33

58

E11100		3.6
090		4.5
80		5.2
70		6.2
60		7.2
50		8.1
40		8.8
30		9.7
20		10.5
10		11.5
	632.64	
11000		3.1
990		4.0
80		5.0
70		6.0
60		6.2
50		6.7
40		7.2
30		7.8
20		8.7
10910		9.5

N3180

632.64

2-21-33

(19)

E10910	10.1
20	9.3
30	8.4
40	7.9
50	7.4
60	6.9
70	5.9
80	5.1
90	4.1
11000	3.3
10	2.4
20	1.6
30	0.9
40	0.0
50	8.5
60	7.7
70	6.8
80	5.6
90	4.8
11100	3.7

641.96

N3190

641.96

2-21-33

60

E11100	3.9
090	4.6
80	5.5
70	6.7
60	7.8
50	8.7
40	9.6
30	10.5
20	11.5
10	12.3

632.64

11000	3.7
990	4.7
80	5.5
70	6.2
60	6.9
50	7.9
40	8.5
30	9.1
20	9.8
10910	10.3

113200

(61)

632.64

2-21-33

E10910 10.9

20 10.5

30 10.1

40 9.0

50 7.8

60 7.2

70 6.5

80 5.8

90 5.0

11000 4.1

10 3.4

20 2.5

30 1.5

40 9.8

50 8.9

60 7.9

70 7.0

80 5.8

90 4.9

11100 4.2

641.96

641.96

8.73

633.23

4.12

637.35

N3210

637.35<sup>41</sup>

2-21-33

(2)

E11100	†0.1
090	0.7
80	1.9
70	2.7
60	3.6
50	4.4
40	5.1
30	6.3
20	7.3
10	8.3
11000	9.2
990	10.0
80	10.6
70	11.4
60	11.9
50	12.5.64
40	0.5
30	1.7
20	2.9
10	4.0
10910	4.8

637.35

12.57

625.28

0.30

625.58

10.74

614.84 = 614.90 B.M.

made a correction

N 3220

625.64

2-21-33

63

10910 5.4

20 4.3

30 3.1

40 2.1

50 1.0

60 0.7

637.41

70 11.6

80 10.9

90 10.2

11000 9.8

10 8.6

20 7.7

30 6.8

40 5.9

50 5.0

60 4.1

70 3.2

80 2.4

90 1.3

11100 0.0

N3230

637.41

2-21-33

(64)

E11100		0.1
090		1.3
80		2.4
70		3.4
60		4.3
50		5.3
40		6.4
30		7.7
20		8.6
10		9.6
11000		10.4
990		10.8
80		11.3
70		11.8
60	625.64	1.1
50		1.7
40		2.5
30		3.6
20		4.5
10910		5.2

N3240

62.5.64

E10910	5.7
20	4.9
30	4.3
40	3.6
50	2.6
60	1.4
70	0.6
80	0.3
90	11.7
11000	10.6
10	9.6
20	8.4
30	7.4
40	6.0
50	5.3
60	4.3
70	3.4
80	2.5
90	1.6
11100	0.3

637.41

2-21-33

(65)

N3250

(66)

637.41

2-21-33

E 11100 0.7

090 1.8

80 2.8

70 3.7

60 4.6

50 5.5

40 6.7

30 7.6

20 8.7

10 9.7

11000 10.7

990 11.5

625.64

80 1.0

70 1.7

60 2.0

50 3.2

40 4.6

30 5.2

20 5.7

10910 6.3

N 3260

625.64

E10910	7.1
20	6.6
30	5.9
40	4.8
50	3.7
60	2.8
70	2.7
80	1.2
90	0.0

637.41

11000	11.3
10	10.2
20	9.4
30	8.0
40	7.0
50	5.7
60	4.9
70	4.0
80	3.1
90	2.1
11100	1.2

2521-33

(67)

N 3270

637.41

2-21-33

62

E 11100 1.5

090 2.6

80 3.5

70 4.4

60 5.2

50 6.3

40 7.4

30 8.7

20 9.6

10 10.7

11000 11.4

625.64

990 0.4

80 1.1

70 2.2

60 3.7

50 4.8

40 5.4

30 6.3

20 7.1

10910 7.6

N 3780

625.64

E10910

8.0

20

7.4

30

7.0

40

6.2

50

5.0

60

3.8

70

2.6

80

1.7

90

0.9

11000

0.1

637.41

910

11.1

20

10.3

30

9.0

40

7.9

50

6.9

60

5.8

70

4.8

80

4.0

90

3.1

1110

2.1

2-21-33

69

N 3290

(70)

637.41

2-21-33

E11100 2.7

090 3.6

80 4.5

70 5.5

60 6.3

50 7.2

40 8.6

30 9.6

20 10.7

10 11.4

11000 12.4

625.64

990 1.4

80 2.2

70 3.3

60 4.5

50 5.5

40 6.6

30 7.5

20 7.9

10910 8.2

N3300

625.64

2-21-33

(71)

E10910		8.7
20		8.4
30		8.2
40		7.5
50		6.4
60		5.1
70		4.1
80		2.9
90		2.0
11000		1.2
10		0.1
20	637.41	11.1
30		10.1
40		8.9
50		8.1
60		6.9
70		5.9
80		5.0
90		4.1
11100		3.3

N3310

(72)

637.41

2-21-33

E11100 4.0

90 4.7

80 5.6

70 6.6

60 7.6

50 8.5

40 9.6

End of work Feb. 21-33

30 11.0

20 11.4

10 12.4

625.64

11000 1.6

990 2.7

80 3.8

70 4.8

60 5.8

50 7.1

40 8.1

30 8.8

20 8.9

10910 8.9

N 2500

(73)

647.75

E10 700	2.0
690	2.5
80	4.8
70	6.2
60	7.5
50	8.7
40	9.9
30	11.3
20	12.3
10	6.3
10 600	7.8
590	8.7
80	10.1
70	10.9
60	11.9
50	12.8
40	14.0
30	15.1
20	15.5
10510	15.7

640.19

Beginning of work Feb. 25. 33

Delaney TK

Clavert R4

647.79  
 - 0.16  
 647.63  
 + 0.12  
 647.75  
 - 11.85  
 635.90  
 + 4.29  
 640.19

N 2490

640.19

2-25-33

(74)

E10510	16.0
20	14.8
30	14.9
40	12.5
50	11.4
60	9.9
70	9.1
80	8.5
90	7.4
10600	5.8
10	4.8
20	3.6
30	2.1
40	0.4
50	9.4
60	8.2
70	6.7
80	5.3
90	3.9
10700	2.3

650.35

640.19  
 - 0.09  
 640.10  
 + 10.25  
 650.35

N 2480

650.35

2-25-32

75

E 10700	0.6
690	2.0
80	3.2
70	4.6
60	6.0
50	7.1
40	8.6
30	10.4
20	11.9
10	1.5
10 600	2.7
590	3.4
80	5.0
70	5.7
60	6.8
50	8.5
40	8.9
30	11.1
20	12.7
10510	13.2

638.43

650.35  
 -11.97  
 638.38  
 +00.05  
 638.43

N2470

638.43

E10510		12.7
20		11.3
30		9.8
40		8.6
50		7.5
60		6.2
70		4.8
80		3.5
90		2.7
10500		0.8
10	649.78	10.9
20		9.5
30		7.8
40		6.7
50		5.0
60		3.6
70		2.5
80		1.1
90	654.14	4.0
10900		2.6

2-25-33

(76)

638.43
- 23
638.20
+ 11.58
649.78
+ 0.28
649.50
+ 4.64
654.14

N2460  
654.14

2-25-33

(77)

E 10700	0.5
690	2.3
80	3.6
70	4.9
60	6.5
50	7.6
40	9.2
30	10.4
20	12.0
10	5.7
10600	7.2
590	8.2
80	10.0
70	11.5
60	12.8
50	14.1
40	15.4
30	17.0
20	18.5
10510	20.0

646.42

654.14  
- 12.03  
642.11  
+ 4.31  
646.42

N 2450

646.42

2-25-33

(72)

E 10510	18.5
20	16.9
30	15.6
40	14.2
50	12.7
60	11.2
70	10.0
80	8.7
90	6.6
10600	5.4
10	4.3
20	2.8
30	1.1
40	10.7
50	9.3
60	8.2
70	6.3
80	4.9
90	3.7
10700	2.6

657.65

646.42

- 0.09

646.33

+ 11.32

657.65

N2A40

657.65

2-25-33

(79)

E 10700	0.5
690	1.6
80	2.8
70	4.6
60	6.1
50	7.5
40	8.7
30	10.8
<hr/>	
20	1.6
10	2.8
10600	3.7
590	5.1
80	6.8
70	8.4
60	9.3
50	10.6
40	12.3
30	13.5
20	14.9
10510	16.5

646.17

657.65  
 -11.96  
 645.69  
 +0.48  
 646.17

Continued B42A P-1

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ 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.