W
427

LEVEL BOOK
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.

	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.

427

Chocolate Creek Area

Silt Deposit X-Sections

Survey by contractors eng. crew

City copy notes by P.O.G.

INDEX

N2990 - 3330	E10510 - 10700	P 1-22
N2720 - 2400	E10090 - 10260	P 23-56
N2730 - 2590	E10500 - 10270	P 56-79

N 2990

624.30 ✓

E-10 700		8.1	16.2
690		7.6	16.7
80		6.1	18.2
70		7.4	16.9
60		7.2	17.1
50		6.8	17.5
40		7.3	17.0
30		7.0	17.3
20		7.0	17.3
10		7.8	16.5
10 600		8.2	16.1
590		8.6	15.7
80		9.1	15.2
70		10.0	14.3
60		11.0	13.3
50		12.1	12.2
	615.17 ✓		
40		4.2	11.0
30		5.6	09.6
20		6.5	08.7
10 510		7.3	07.9

2-9-33 Notes for city by P.O.E.

contractor crew { Clavert
Wade Rd

continued from book 426 P-79

N3000

624.30

E10 700		8.3	16.0
690		8.8	15.5
80		8.5	15.8
70		8.0	16.3
60		7.5	16.8
50		7.8	16.5
40		7.7	16.6
30		7.3	17.0
20		7.7	16.6
10		7.9	16.4
10600		8.4	15.9
590		8.9	15.4
80		9.0	15.3
70		9.9	14.4
60		10.8	13.5
50		11.5	12.8
	615.17		
40		3.4	11.8
30		4.2	11.0
20		4.9	10.3
10510		5.7	09.5

2-9-33

(2)

N3010

624.20 ✓

2-9-33

E10 700		8.4	15.9
690		9.0	15.3
80		8.9	15.4
70		8.2	16.1
60		7.9	16.4
50		8.4	15.9
40		8.2	16.1
30		7.8	16.5
20		8.5	15.8
10		8.7	15.6
10600		8.8	15.5
590		8.9	15.4
80		9.1	15.2
70		9.9	14.4
60		10.6	13.7
50		11.4	12.9
40		12.2	12.1
30		12.3	12.0
20		12.7	11.6
10510		13.5	10.8

2-9-33

N3020

624.30

E10700	9.1	15.2
690	9.2	15.1
80	9.3	15.0
70	11.5	12.8
60	11.5	12.8
50	9.9	14.4
40	9.2	15.1
30	9.2	15.1
20	9.3	15.0
10	9.3	15.0
10600	9.2	15.1
590	9.0	15.3
80	9.5	14.8
70	10.1	14.2
60	10.8	13.5
50	11.5	12.8
40	11.5	12.8
30	11.7	12.6
20	12.2	12.1
10510	12.9	11.4

N3030

G24.30

2-9-33

E10700	9.3	15.0
690	9.4	14.9
80	11.9	12.4
70	13.5	10.8
60	13.2	11.1
50	13.5	10.8
40	10.5	13.8
30	10.3	24.0
20	10.3	14.0
10	10.0	14.3
10600	9.6	14.7
590	9.8	14.5
80	10.1	14.2
70	10.6	13.7
60	11.1	13.2
50	11.3	13.0
40	11.6	12.7
30	11.9	12.4
20	12.4	11.9
10510	13.0	11.3

N 3040

617.51

2-9-33

E10510	6.5	11.0
20	6.1	11.4
30	5.6	11.9
40	5.1	12.4
50	4.4	13.1
60	4.2	13.3
70	4.1	13.4
80	3.7	13.8
90	3.5	14.0
10600	3.5	14.0
10	4.0	13.5
20	4.4	13.1
30	4.4	13.1
40	8.4	09.1
50	4.1	13.4
60	3.0	14.5
70	2.0	15.5
80	5.7	11.8
90	4.3	13.2
10700	2.0	15.6

CZ 24.30
−11.87
617.43
+5.08
617.51

N3050

617.51

7

2-9-33

E10510	7.7	09.8
20	7.2	10.3
30	6.6	10.9
40	5.5	12.0
50	4.9	12.6
60	4.4	13.1
70	4.4	13.1
80	4.1	13.4
90	3.9	13.6
10600	4.1	13.4
10	4.6	12.9
20	5.0	12.5
30	9.6	07.9
40	4.8	12.7
50	4.0	13.5
60	2.7	14.8
70	2.5	15.0
80	1.3	16.2
90	1.4	16.1
10700	1.1	16.4

N3060

617.51

2-9-38

E10510	9.2	08.3
20	8.6	08.9
30	7.7	09.8
40	6.8	10.7
50	5.9	11.6
60	5.1	12.4
70	4.9	12.6
80	4.9	12.6
90	4.8	12.7
10600	5.1	12.4
10	5.5	12.0
20	6.2	11.3
25	10.0	07.5
30	5.9	17.6
40	4.8	12.7
50	3.9	13.6
60	3.5	14.0
70	2.8	12.7
80	2.1	15.4
90	1.5	16.0
10700	1.2	16.3

N3070

617.51

(9)

2-9-33

E10 510	10.9	06.6
20	9.9	07.6
30	8.9	08.6
40	7.9	09.6
50	7.1	10.4
60	6.4	11.1
70	6.0	11.5
80	5.7	11.8
90	5.8	11.7
10600	6.1	11.4
10	6.0	11.5
30	10.4	07.1
again 20	6.3	11.2
30	5.9	11.6
40	4.8	12.7
50	4.5	13.0
60	4.0	13.5
70	3.0	14.5
80	2.5	15.0
90	1.7	15.8
10 700	1.5	16.0

N3080

617.51

2-9-83

E10510	12.0	05.5
20	11.1	06.4
30	10.2	07.3
40	9.3	08.2
50	8.3	09.2
60	7.6	09.9
70	7.0	10.5
80	7.0	10.5
90	6.8	10.7
10600	6.8	10.7
10	6.4	11.1
again 10	11.3	06.2
20	6.6	10.9
30	5.7	11.8
40	5.1	12.4
50	4.8	12.7
60	4.3	13.2
70	3.4	14.1
80	2.4	15.1
90	1.9	15.6
10700	1.5	16.0

N3090

617.51

E10520	14.2	03.3
30	11.1	06.4
40	10.4	07.1
50	9.6	07.9
60	8.8	08.7
70	8.3	09.2
80	7.9	09.6
90	7.6	09.9
10600	13.3	04.2
10	11.7	05.8
20	6.8	10.7
30	6.3	11.2
40	5.5	12.0
50	5.3	12.2
60	4.3	13.2
70	3.5	14.0
80	2.5	15.0
90	1.9	15.6
10700	1.3	16.2

2-9-33

7-9-33

	N3100		
	617.51 ✓		
E10550		13.2	04.3
60		9.6	07.9
70		9.0	08.5
80		8.6	08.9
90		16.9	00.6
10600		10.9	06.6
10		7.7	09.8
20		7.8	09.7
30		6.3	11.2
40		5.7	11.8
50		5.6	11.9
60		4.7	12.8
70		3.4	14.1
80		2.9	14.6
90		2.0	15.5
10700		1.6	15.9
	N3110		
10570		14.9	02.6
80		13.2	04.3

2-9-33

N 3110

617.51

E10590	21.9	95.6
10600	8.8	08.7
10	8.6	08.9
20	9.8	07.7
30	8.0	09.5
40	7.2	10.3
50	5.9	11.6
60	5.1	12.4
70	3.9	13.6
80	3.2	14.3
90	2.4	15.1
10700	2.1	15.4

N 3120

10590	16.0	01.5
10600	9.7	07.8
10	9.7	07.8
20	12.0	05.5
30	9.0	08.5
40	7.9	09.6

2-9-33

N3120

617.51

E10650	6.1	11.4
60	5.2	12.3
70	4.3	13.2
80	3.6	13.9
90	3.2	14.3
10700	2.6	14.9

N3130

10590	15.0	02.5
10600	10.5	07.0
10	10.0	07.5
20	13.9	03.6
30	9.9	07.6
40	8.5	09.0
50	6.7	10.8
60	5.6	11.9
70	4.8	12.7
80	4.4	13.1
90	3.9	13.6
10700	3.4	14.1

2-9-33

		N3140		
		617.51		
	8.61	614.22	11.90	605.61
E10590			12.2	02.0
10600			11.7	02.5
10			8.0	06.2
20			12.2	02.0
30			7.5	06.7
40			6.1	08.1
50			4.4	09.8
60			3.0	11.2
70			2.1	12.1
80			1.7	12.5
90			1.1	13.1
10700			0.5	13.7
			N3150	
10600			9.5	04.7
10			8.6	05.6
20			13.6	00.6
30			8.9	05.3
40			7.4	06.8

2-9-33

N3150

614.22 V

E10650	5.5	08.7
60	3.7	10.5
70	2.8	11.4
80	2.3	11.9
90	1.6	12.6
10700	1.0	13.2

N3160

10600	11.1	03.1
10	9.3	04.9
20	14.6	99.6
30	11.7	02.5
40	8.7	05.5
50	6.5	07.7
60	4.6	09.6
70	3.4	10.8
80	2.5	11.7
90	1.8	12.4
10700	1.3	12.9

7-9-33

N 3170

614.22

E 10610	10.4	03.8
20	15.9	98.3
30	13.0	01.2
40	10.2	04.0
50	7.6	06.6
60	5.6	06.6
70	4.0	10.2
80	3.2	11.0
90	2.3	11.9
10 700	1.9	12.3

N 3180

10610	16.0	98.2
20	17.2	97.0
30	13.9	00.3
40	11.6	02.6
50	8.5	05.7
60	6.8	07.4
70	5.1	09.1
80	3.9	10.3

2-9-33

	N 3180	
	614.22	
E.10690	3.0	11.2
10700	2.9	11.3
	N 3190	
10610	19.2	95.0
20	18.3	95.9
30	14.4	99.8
40	13.4	00.8
50	10.0	04.2
60	7.9	06.3
70	6.0	08.2
80	4.9	09.3
90	4.0	10.2
10700	3.8	10.4
	N 3200	
10630	10.6	03.6
40	10.4	03.8
50	10.3	03.9
60	9.1	05.1
70	7.4	06.8

2-9-33

N3200

614.22

E10680	6.0	08.2
90	5.0	09.2
10700	4.5	09.7

N3210

10630	11.0	03.2
40	10.7	03.5
50	10.4	03.8
60	9.7	04.5
70	8.5	05.7
80	7.2	07.0
90	6.4	07.8
10700	6.0	08.2

N3220

10640	11.1	03.1
50	10.8	03.4
60	10.2	04.0
70	9.2	05.0
80	8.4	05.8
90	7.8	06.4
10700	7.6	06.6

2-9-33

N3230

614.22 ✓

E10650	11.2	03.0
60	10.7	03.5
70	9.8	04.4
80	9.2	05.0
90	9.0	05.2
10700	14.6	99.6

N3240

10700	15.0	99.2
690	13.1	01.1
80	10.8	03.4
70	10.5	03.7
60	11.0	03.2
650	11.3	02.9

N3250

10670	20.6	93.6
80	12.3	01.9
90	10.0	04.2
10700	8.9	05.3

2-9-33

N3260

614 22

E10700	8.8	05.4
690	9.9	04.3
80	10.6	03.7
10670	10.9	03.3

N 3270

10700	9.0	05.2
690	10.1	04.1
680	10.8	03.4
670	11.3	02.9

N3280

10700	9.7	04.5
690	10.6	03.6
680	11.1	03.1
670	11.5	02.9

N3290

10700	10.1	04.1
690	10.9	03.3
680	11.4	02.8
670	11.9	02.3

N3300

614.22

E10700	10.8	03.4
690	11.4	02.8
680	11.7	02.5

N 3310

10700	11.1	03.1
690	11.8	02.4

N3320

10700	11.7	02.5
690	16.6	97.6

N3330

10700	14.3	99.9

2-9-33

			643.08	TP by Clavert
	5.10	648.18		
			626.72	TP by Clavert
	9.59	636.31		
		N2720		
		636.31		
E10090			23.1	13.2
10100			22.5	13.8
110			18.0	18.3
20			16.2	20.1
30			14.6	21.7
40			12.5	23.8
50			10.5	25.8
60			8.5	27.8
70			6.4	29.9
80			5.1	31.2
90			3.1	33.2
10200		648.18	1.5	34.8
210			11.5	36.7
20			10.2	38.0
30			9.2	39.0

beginning Feb. 10 - '33

Notes for City by R.O.G

Contractors crew Clavert
Wade

π
RP

2-10-33

N 2720

648.18

E10240	7.9	40.3
50	6.9	41.3
60	5.6	42.6

N 2710

10260	4.1	44.1
50	4.9	43.3
40	6.4	41.8
30	7.6	40.6
20	8.5	39.7
10	9.8	38.4
10200	11.4	35.8

636.31

190	1.3	35.0
180	3.0	33.3
70	4.5	31.8
60	6.5	29.8
50	8.4	27.9
40	11.0	25.3
30	13.4	22.9
20	16.6	20.7

2-10-33

N 2710

636.31

E10110	17.0	19.3
10100	18.9	17.4
090	24.1	12.2

N2700

10090	25.2	11.1
10100	18.3	18.0
110	16.0	20.3
20	14.4	21.9
30	11.7	24.6
40	9.6	26.7
50	6.8	29.5
60	4.4	31.9
70	2.4	33.9
80	0.7	35.6

648.18

90	11.5	36.7
10200	10.0	38.2
10	8.4	39.8
20	7.1	41.1
30	5.4	42.8

2-10-33

N2700

G48.18

E10240	4.1	44.1
50	3.7	44.5
60	3.2	45.0

N2690

10260	2.6	45.6
50	3.1	45.1
40	3.5	44.7
30	3.7	44.5
20	4.1	44.1
10	7.2	41.0
10200	8.8	39.4
190	10.4	37.8
80	11.3	36.9
70	11.8	36.4

G3631

60	2.2	34.1
50	5.7	30.6
40	8.4	27.9
30	10.8	25.5
20	13.3	23.0

2-10-33

N2690

636.31

E1011.0	13.4	22.9
10100	16.7	19.6
090	19.3	17.0

N2680

10090	18.6	17.7
10100	16.2	20.1
110	14.5	21.8
20	12.3	24.0
30	9.7	26.6
40	7.5	28.8
50	5.0	31.3
60	2.0	34.3

648.18

70	11.4	36.8
80	10.9	37.3
90	9.6	38.6
10200	7.8	40.4
10	6.1	42.1
20	4.1	44.1
30	3.5	44.7

2-10-39

N 2680

648.18

E10240	3.1	45.1
50	2.7	45.5
60	2.3	45.9

N 2670

10260	1.8	46.4
50	1.9	46.3
40	2.2	46.0
30	2.6	45.6
20	3.7	44.5
10	4.3	43.9
10200	6.3	41.9
190	8.2	40.0
80	10.1	38.1
70	11.5	36.7

636.31

60	1.0	35.3
50	3.3	33.0
40	7.0	29.3
30	9.5	26.8
20	11.8	24.5

N2670

636.31

E10110	14.6	21.7
10100	15.4	20.9
09	19.4	16.9

N2660

10090	19.0	17.3
10100	16.7	19.6
110	13.8	22.5
20	11.3	25.0
30	8.7	27.6
40	6.2	30.1
50	3.5	32.7
60	1.0	35.3

648.18

70	11.1	37.1
80	9.4	38.8
90	7.4	40.8
10200	5.3	42.9
210	3.9	45.3
20	2.7	45.5
30	2.2	46.0

7-10-33

	NZ660		
	648.18		
E10240		1.9	46.3
50		1.8	46.4
60		1.8	46.4
	NZ650		
10260		1.7	46.5
50		1.6	46.6
40		1.6	46.6
30		1.7	46.5
20		2.2	46.0
10		3.5	44.7
10200		4.4	43.8
190		6.4	41.8
80		8.1	40.1
70		10.2	38.0
60		12.1	36.1
	636.31		
50		2.3	34.0
40		5.2	31.1
30		8.4	27.9
20		10.4	35.9

2-10-33

N2650

636.31 ✓

E10110	13.5	22.8
10100	15.8	20.5
090	19.3	17.0

N2640

10090	17.1	19.2
10100	15.2	21.1
110	13.0	23.3
120	9.8	26.5
130	5.8	30.5
140	3.6	32.7
150	2.0	34.3

648.18

160	11.7	36.5
170	9.5	38.7
180	7.4	40.8
190	5.4	42.8
10200	3.7	44.5
10	2.7	45.5
20	1.9	46.3
30	1.8	46.4

2-10-33

	N2640		
	648.18		
E10240		1.7	46.5
50		1.7	46.5
60		2.1	46.1
	N2630		
10260		2.3	45.9
50		1.8	46.4
40		1.8	46.4
30		2.2	46.0
20		2.3	45.9
10		2.6	45.6
10200		3.8	44.4
190		5.5	42.7
80		7.3	40.9
70		9.5	38.7
60		11.8	36.4
	636.31		
50		1.8	34.5
40		4.2	32.1
30		6.4	29.9
20		9.5	26.8

2-10-33

N-2630

636.31 ✓

E10110	12.1	24.2
10100	14.4	21.9
090	16.5	19.8

N2620

10090	18.1	18.2
10100	15.3	21.0
10	13.0	23.3
20	10.4	25.9
30	7.3	29.0
40	4.7	31.6
50	2.0	34.3

648.18

60	11.8	36.4
70	9.5	38.7
80	7.5	40.7
90	5.3	42.9
10200	3.6	44.6
10	2.5	45.7
20	2.4	45.8
30	2.4	45.8

2-10-30

N2620

648.18

E10240	2.5	45.7
50	2.6	45.6
60	2.7	45.5

N2610

10260	2.9	45.3
50	3.0	45.2
40	2.9	45.3
30	2.7	45.5
20	2.6	45.6
10	2.8	45.4
10200	3.5	44.7
190	5.3	42.9
80	7.4	40.8
70	9.4	38.8
60	11.6	36.6

636.31

50	1.7	34.6
40	3.9	32.4
30	6.6	29.7
20	7.8	28.5

2-10-33

N 2610

636.31

E 10110	11.4	24.9
10100	14.1	22.2
090	17.2	16.1

N 2600

10 090	18.5	17.8
10100	15.7	21.6
10	12.9	23.4
20	10.0	26.3
30	7.5	28.8
40	4.8	31.5
50	2.5	33.8
648.18		
60	12.0	36.8
70	8.8	39.4
80	7.7	40.5
90	5.4	42.8
10 200	3.6	44.6
10	3.0	45.2
20	2.7	45.5
30	2.8	45.4

N2600

648.18 ✓

E10240		2.9	45.3
50		2.8	45.4
60		3.0	45.2
	N2590		
10260		3.3	44.9
70		2.9	45.3
40		3.1	45.1
30		2.8	45.4
20		3.1	45.1
10		3.1	45.1
10200		4.6	43.6
190		6.1	42.1
80		8.3	39.9
70		10.5	37.7
60		12.3	35.9
	636.31		
50		2.8	33.5
40		5.1	31.2
30		7.7	28.6
20		10.2	26.1

2-10-33

	N2590		
	636.31		
E10110		13.5	23.8
10100		15.4	20.9
090		18.3	18.0
	N2580		
10090		19.2	17.1
10100		16.2	20.1
10		13.3	23.0
20		11.5	24.8
30		8.7	27.6
40		5.8	30.5
50		3.2	33.1
	648.18		
60		13.0	35.2
70		10.8	37.4
80		8.5	39.7
90		6.1	42.1
10200		4.8	43.4
10		3.6	44.6
20		3.3	44.9
30		3.2	45.0

		N2580		
		648.18 ✓		
E10240			3.7	44.5
50			3.9	44.3
60			4.1	44.1
				643.08
	2.39	645.47 ✓		
	0.52	634.04 ✓	11.95	633.52
		N2570		
		645.47 ✓		
E10260			2.2	43.3
50			1.5	44.0
40			1.1	44.4
30			1.1	44.4
20			0.9	44.6
10			1.3	44.2
10200			1.9	43.6
190			3.5	42.0
80			5.8	39.7
70			8.1	37.4

2-10-37

N2570

645.47

E10160	10.1	35.4
50	12.4	33.1
634.04		
40	2.9	31.1
30	5.5	28.5
20	8.0	26.0
10	10.4	23.6
10100	12.7	21.3
10090	14.6	19.4

N2560

10090	16.1	17.9
10100	14.1	19.9
10	12.2	21.8
20	9.8	24.2
30	7.5	26.5
40	4.3	29.7
50	1.8	32.2
645.49		
60	10.7	34.8
70	8.7	36.8
80	6.2	39.3

N 2560

645.47

E10190	3.9	41.6
10200	2.6	42.7
10	1.6	43.9
20	1.2	44.3
30	1.6	43.9
40	1.5	44.0
50	1.7	43.8
60	1.9	43.6

N 2550

10260	3.7	41.8
50	2.5	43.0
40	1.7	43.8
30	1.7	43.8
20	1.9	43.6
10	2.2	43.3
10200	3.7	41.8
190	5.0	40.5
80	7.3	38.2
90	9.5	36.0

	N2550		
	645.47		
E10160		11.4	34.1
	634.04		
50		2.0	32.0
40		4.2	29.8
30		5.7	28.3
20		10.1	23.9
10		11.9	22.1
10100		14.0	20.0
090		15.8	18.2
	N 2540		
10090		16.2	17.8
10100		14.3	19.7
10		11.9	22.1
20		9.7	24.3
30		5.8	28.2
40		4.5	29.5
50		1.8	32.2
	645.47		
60		11.1	34.4
70		9.2	36.3
80		7.0	38.5

N2540

645.47

E10190	4.8	40.7
10200	3.5	42.0
10	2.6	42.9
20	2.4	43.1
30	2.1	43.4
40	2.8	42.7
50	3.4	42.1
60	4.5	41.0

N2530

10260	5.3	40.2
50	4.2	41.3
40	3.1	42.4
30	2.9	42.6
20	3.1	42.4
10	4.2	41.3
10200	5.6	39.9
190	7.2	38.3
80	9.1	36.4
70	10.9	34.6

2-10-38

N 2530

634.04

E 10160	1.7	32.3
50	3.8	30.2
40	6.1	27.9
30	7.8	26.2
20	11.0	23.0
10	12.9	21.1
10100	14.7	19.3
090	17.2	16.8

N 2520

10090	18.0	16.0
10100	15.6	18.4
10	13.4	20.6
20	11.6	22.4
30	9.0	25.0
40	6.6	27.4
50	4.1	29.9
60	2.2	31.8
70	0.3	33.7

N 7520

645.47

E 10180	9.6	35.9
90	7.9	37.6
10200	6.5	39.0
10	5.0	40.5
20	3.8	41.7
30	3.5	42.0
40	3.8	41.7
50	4.8	40.7
60	5.9	39.6

N 7510

10260	6.7	38.8
50	5.4	40.1
40	4.7	40.8
30	4.3	41.2
20	4.7	40.8
10	6.2	39.3
10200	7.7	37.8
190	9.3	36.2
80	10.9	34.6

N2510
634.04

E10170	1.2	32.8
60	3.2	30.8
50	5.2	28.8
40	7.1	26.9
30	9.4	24.6
20	11.4	22.6
10	13.3	20.7
10100	15.1	18.9
090	17.5	16.5

N2500

10090	18.2	15.8
10100	15.5	18.5
10	13.5	20.5
20	11.7	22.3
30	10.2	23.8
40	7.9	26.1
50	5.9	28.1
60	3.8	30.2
70	1.9	32.1

	N2500		
	634.04		
E10180		0.3	33.7
	645.47		
90		9.9	35.6
10200		8.4	37.1
10		6.7	38.8
20		5.4	40.1
30		5.1	40.4
40		5.5	40.0
50		6.4	39.1
60		7.5	38.0
	N2490		
10260		8.5	37.0
50		7.3	38.2
40		6.4	39.1
30		6.3	39.2
20		6.6	38.9
10		7.8	37.7
10200		9.4	36.1
190		10.9	34.6

N2490

634.04

E10180	1.2	32.8
70	3.0	31.0
60	4.9	29.1
50	6.6	27.4
40	8.4	25.6
30	10.3	23.7
20	12.2	21.8
10	14.2	19.8
10100	15.6	18.4
090	18.2	15.8

N2480

10 090	18.8	15.2
10100	16.5	17.5
10	14.3	19.7
20	12.2	21.8
30	10.4	23.6
40	8.5	25.5
50	7.0	27.0
60	5.1	28.9

	N 2480		
	634.04		
E 10170		3.1	30.9
80		1.2	32.8
	645.47		
90		10.9	34.6
10200		10.0	35.5
10		8.0	37.5
20		7.1	38.4
30		7.2	38.3
40		7.6	37.9
50		8.4	37.1
60		9.5	36.0
	N 2470		
10260		10.8	34.7
50		9.7	35.8
40		8.9	36.6
30		8.2	37.3
20		8.3	37.2
10		9.1	36.4
10200		10.8	34.7

	N2470		
	645.49		
E10190		11.8	33.7
	634.04		
80		2.4	31.6
70		4.1	29.9
60		5.8	28.2
50		7.4	26.6
40		9.3	24.7
30		10.7	23.3
20		13.0	21.0
10		14.8	19.2
10100		16.2	17.8
090		18.6	15.4
	N2460		
10,090		19.6	14.4
10100		17.3	16.7
10		15.0	19.0
20		13.6	20.4
30		11.3	22.7
40		9.8	24.2

	N2460		
	634.04		
E10150		7.9	26.1
60		6.3	27.7
70		4.3	29.7
80		2.8	31.2
90		0.8	33.2
	645.47		
10200		10.9	34.8
10		9.5	36.0
20		9.0	36.5
30		9.3	36.2
40		10.2	35.3
50		10.9	34.6
60		11.9	33.6
	N2450		
10260		13.0	32.5
50		11.9	33.6
40		10.7	34.8
30		10.0	35.5
20		10.1	35.4

N 2450

645.47

E10 210		10.7	34.8
10 200		12.2	33.3
	634.04		
190		1.6	32.4
80		3.6	30.4
70		5.3	28.7
60		7.2	26.8
50		9.0	25.0
40		10.8	23.2
30		12.7	21.3
20		14.4	19.6
10		15.8	18.2
10,100		18.0	16.0
090		20.6	13.4
	N 2440		
10090		19.7	14.3
10100		17.6	16.4
10		15.7	18.3
20		13.8	20.2
30		12.2	21.8

	N2440		
	634.04		
E10140		10.5	24.5
30		8.8	25.2
60		6.8	27.2
70		5.0	29.0
80		3.1	30.9
90		1.9	32.1
10200		0.3	33.7
	645.47		
10		10.9	34.6
20		10.9	34.6
30		11.6	33.9
40		12.4	33.1
50		13.4	32.1
60		14.3	31.2
	N2430		
	634.04		
10260		3.5	30.6
50		2.8	31.2
40		1.6	32.4
30		0.9	33.1

	N 2430		
	634.04		
E10220		0.4	33.6
10		0.5	33.5
10200		1.4	32.6
190		2.9	31.1
80		4.2	29.8
70		6.1	27.9
60		7.7	26.3
50		9.5	24.5
40		11.3	22.7
30		12.7	21.3
20		14.2	19.8
10		15.9	18.1
10100		18.0	16.0
090		22.2	11.8
	N 2420		
10090		21.4	12.6
10100		20.7	13.3
10		16.9	17.1
20		15.0	19.0

N2420

634.04

E10130	13.2	20.8
40	11.5	22.5
50	10.1	23.9
60	8.3	25.7
70	6.7	27.3
80	4.6	29.4
90	3.8	30.2
10200	2.2	31.8
10	1.4	32.6
20	1.2	32.8
30	1.7	32.3
40	2.7	31.3
50	3.8	30.2
60	4.7	29.3

N2410

10260	5.6	28.4
50	4.6	29.4
40	3.7	30.3
30	2.6	31.4

N 2410

634.04

E10220	2.2	31.8
10	2.2	31.8
10200	2.9	31.1
190	4.6	29.4
80	5.6	28.4
70	7.5	26.5
60	8.8	25.2
50	10.5	23.5
40	11.7	22.3
30	13.3	20.7
20	15.0	19.0
10	16.4	17.6
10100	19.6	14.4
090	21.3	12.7

N 2400

10090	23.2	10.8
10100	19.1	14.9
10	18.1	15.9
20	14.7	19.3

N 2400

634.04

E 10130	13.4	20.6
40	12.1	21.9
50	11.0	23.0
60	9.5	24.5
70	7.8	26.2
80	6.6	27.4
90	4.5	29.5
10200	3.7	30.3
10	3.4	30.6
20	3.5	30.5
30	4.2	29.8
40	5.1	28.9
50	5.8	28.2
60	6.4	27.6

POG. Notes for city
Clavert
Wade
Rd } Contractor crew

End of work Feb. 10-33

				643.08 TP by Clavert
Transit	3.58	646.66		
			11.90	634.76
Level	0.86	635.62		
		N 2730		
		635.62		
E 10500			14.6	21.0
490			14.0	21.6
80			13.1	22.5
70			11.7	23.9
60			9.9	25.7
50			7.7	27.9
40			5.6	30.0
30			3.3	32.3
20.			1.8	33.8
		646.66		
10			10.3	36.4
10400			9.0	37.7
390			7.3	39.4
80			5.6	41.1
70			4.4	42.3

Feb. 11-33 Beginning of work

City notes by R.O.G

Clavert ⊼

Wade Rd

N2730

646.66

E10360	3.4	43.3
50	2.7	44.0
40	2.2	44.5
30	2.1	44.6
20	2.1	44.6
310	2.1	44.6

N2720

10270	3.1	43.6
80	2.3	44.4
90	2.0	44.7
10300	1.8	44.9
10	1.6	45.1
20	1.4	45.3
30	1.4	45.3
40	2.0	44.7
50	3.0	43.7
60	3.8	42.9
70	4.6	42.1
80	5.8	50.9

	N2720		
	646.66'		
E10390		7.4	39.3
10400		9.1	37.6
10		11.6	35.1
	635.62'		
20		2.2	33.4
30		4.0	31.6
40		6.1	29.5
50		8.0	27.6
60		9.8	25.8
70		11.6	24.0
80		13.5	22.1
90		14.0	21.6
10500		14.9	20.7
	N2710		
10500		15.2	20.4
490		14.4	21.2
80		13.5	22.1
70		11.9	23.7
60		10.1	25.5
50		8.2	27.4

N2710

635.62

E10440		6.3	29.3
30		4.5	31.1
20		2.5	33.1
10		0.3	35.3
	646.66		
10400		10.3	36.4
390		7.5	39.2
80		5.9	40.8
70		4.5	42.2
60		3.6	43.1
50		2.9	43.7
40		2.1	44.6
30		1.4	45.3
20		1.2	45.5
10		1.3	45.4
10300		1.3	45.4
290		1.3	45.4
80		1.5	45.2
70		2.0	44.7

N2700
646.66

E10270		1.3	45.4
80		1.1	45.6
90		0.9	45.8
10300		1.0	45.7
10		1.1	45.6
20		1.3	45.4
30		1.7	45.0
40		2.4	44.3
50		2.9	43.8
60		3.7	43.0
70		5.0	41.7
80		6.0	40.7
90		8.8	37.9
10400		10.0	36.7
10	635.62	12.0	34.7
20		3.0	32.6
30		4.9	30.7

End Feb. 11-33
contractor called party off by 9 am

N 2700

				643.08	TP by Clavert
Transit	355	646.63'			
			11.95	634.68'	
Level	0.13	634.81'			
E10440			5.6	29.2	
50			7.3	27.5	
60			8.9	25.9	
70			10.7	24.1	
80			12.2	22.6	
90			13.7	21.6	
10500			14.8	20.0	
		N2690			
10500			14.7	20.1	
490			14.3	20.5	
80			12.8	22.0	
70			11.6	23.2	
60			10.1	24.7	
50			8.5	26.3	
40			6.8	28.0	
30			4.7	30.1	

Feb. 13 -33

Beginning of work 1pm

rain in forenoon

P.O.G Notes for city

Clavert ⊼ Rd
Wade

Z-13-33

	N2690		
	634.81 ✓		
E10420		2.7	32.1
10		0.9	33.1
	646.63 ✓		
10400		10.9	35.7
390		8.5	38.1
80		7.6	39.0
70		4.7	41.9
60		4.0	42.6
50		3.0	43.6
40		2.3	44.3
30		1.9	44.7
20		1.5	45.1
10		1.1	45.5
10300		0.9	45.7
290		0.8	45.8
80		0.7	45.9
70		1.0	45.6
	N2680		
10270		0.8	45.8
80		0.7	45.9

2-13-33

N 2680

646.63'

E 10290		0.8	45.8
10300		0.9	45.7
10		1.2	45.4
20		1.6	46.0
30		1.9	44.7
40		2.7	43.9
50		3.6	43.0
60		5.1	41.5
70		6.9	39.7
80		8.0	38.6
90		10.2	36.4
10400		12.1	34.5
	634.8'		
10		2.2	32.6
20		4.0	30.8
30		5.9	28.9
40		8.0	26.8
50		9.3	25.5
60		10.7	24.1
70		12.0	22.8

2-13-33

N 2680

634.81

E10480	13.0	21.8
90	14.3	20.5
10500	14.4	20.4

N 2670

10500	14.3	20.5
490	14.2	20.6
80	13.5	21.3
70	12.3	22.5
60	11.0	23.8
50	9.8	25.0
40	8.4	26.4
30	6.6	28.2
20	4.6	30.2
10	2.9	31.9
10400	1.2	33.6

646.63

390	11.0	35.6
80	9.3	37.3
70	7.6	39.0
60	6.2	40.4

2-13-33

N2670

C46.63'

E10350	5.0	41.6
40	2.9	43.7
30	2.2	44.4
20	1.5	45.1
10	1.2	45.4
10300	1.0	45.6
290	0.8	45.8
80	0.8	45.8
70	0.8	45.8

N2660

10270	0.9	45.7
80	0.7	45.9
90	0.9	45.7
10300	1.0	45.6
10	1.1	45.5
20	1.8	44.8
30	2.7	43.9
40	4.9	42.0
50	5.8	41.1

2-13-33

N 2660

646.63

E 10360	7.2	39.4
70	8.9	37.7
80	10.6	36.0
90	12.2	34.4
	634.81	
10400	1.9	32.9
10	3.8	31.0
20	5.7	29.1
30	7.3	27.5
40	8.9	25.9
50	10.0	24.8
60	11.3	23.5
70	12.4	22.4
80	14.0	20.8
90	14.3	20.5
10500	14.1	20.7

N 2650

10500	14.3	20.5
490	14.3	20.5
80	13.9	20.9

2-13-33

	N2650		
	634.81		
E10470		12.5	22.3
60		11.5	23.3
50		10.2	24.6
40		9.2	25.6
30		7.6	27.2
20		6.0	28.8
10		4.1	30.7
10400		2.4	32.4
390		0.7	34.1
	646.63		
80		10.8	35.8
70		9.3	36.3
60		7.9	38.7
50		6.2	40.4
40		5.2	41.4
30		4.2	42.4
20		3.1	43.5
10		1.4	45.2
10300		0.9	45.7
290		0.8	45.8

2-13-33

N2650

646.63

E10280	0.6	46.0
290	0.8	45.8

N2640

10270	0.7	45.9
80	0.4	46.2
90	0.6	46.0
10300	1.8	44.8
10	2.9	43.7
20	3.6	43.0
30	5.2	41.4
40	6.6	40.0
50	8.3	38.3
60	9.8	36.8
70	11.4	35.2

634.81

80	0.9	33.9
90	2.5	32.3
10400	4.1	30.7
10	5.8	29.0
20	7.1	27.7

2-13-33

N 2640

634.81 ✓

E 10430	8.6	26.2
40	9.8	25.0
50	11.0	23.8
60	11.9	22.9
70	13.0	21.8
80	13.8	21.0
90	14.1	20.7
10 500	14.3	20.5

N 2630

10 500	14.7	20.1
490	14.5	20.3
80	14.3	20.5
70	13.8	21.0
60	12.7	22.1
50	11.8	23.0
40	10.7	24.1
30	9.4	25.4
20	7.9	26.9
10	6.4	28.4

2+13-33

N2630

634.81

E10400		4.9	29.9
390		3.3	31.5
80		1.9	32.9
70		0.3	34.5
	646.63		
60		10.9	3.57
50		9.3	37.3
40		8.0	38.6
30		6.3	40.3
20		4.9	41.7
10		3.0	43.6
10300		2.2	44.4
290		1.5	45.1
80		0.7	45.9
70		0.9	45.9
	N2620		
10270		0.8	45.8
80		1.1	45.5
90		1.9	44.7
10300		2.9	43.7

NZ620

646.63

2-13-33

E10310		4.4	42.2
20		5.9	40.7
30		7.4	39.2
40		9.3	37.3
50		10.7	35.9
60		12.2	34.4
	634.81		
70		1.9	32.9
80		3.1	31.7
90		4.3	30.5
10400		5.8	29.0
10		7.3	27.5
20		8.8	26.0
30		10.0	24.8
40		11.1	23.7
50		11.9	22.9
60		12.7	22.1
70		13.5	21.3
80		14.2	20.6
90		14.3	20.5
10500		14.4	20.4

NZ610

634.81

2-13-33

E10500		14.4	20.4
490		14.4	20.4
80		14.1	20.7
70		13.9	20.9
60		13.2	21.6
50		12.1	22.7
40		11.6	23.2
30		10.7	24.1
20		9.7	25.1
10		8.2	26.6
10400		6.8	28.0
390		5.5	29.3
80		4.1	30.7
70		2.8	32.0
60		1.3	33.5
	646.63		
50		11.8	34.8
40		10.2	36.4
30		8.7	37.9
20		6.9	38.7

2-13-33

	N2610		
	646.63 ✓		
E10310		5.5	41.1
10300		3.7	42.9
290		2.6	44.0
280		1.4	45.2
270		1.0	45.6
	N2600		
10270		2.1	44.5
80		3.6	43.0
90		4.0	42.6
10300		5.4	41.2
10		6.8	41.8
20		8.3	38.3
30		9.9	36.7
40		11.3	35.3
	634.81 ✓		
50		0.9	33.9
60		2.5	32.3
70		3.8	31.0
80		5.1	29.7
90		6.2	28.6

2-13-33

N 2600

634.81

E10400	7.7	27.1
10	9.1	25.7
20	10.4	24.4
30	11.3	23.5
40	11.8	23.0
50	12.8	22.0
60	13.5	21.3
70	14.0	20.8
80	14.0	20.8
90	14.3	20.5
10500	14.2	20.6

N 2590

10500	14.1	20.7
490	14.2	20.6
80	14.0	20.8
70	14.0	20.8
60	13.8	21.0
50	13.0	21.8
40	12.3	22.5

N2590

634.81

2-13-33

E10430		11.7	23.1
20		10.9	23.9
10		9.8	25.0
10400		8.6	26.2
390		7.4	27.4
80		6.0	28.8
70		5.0	29.8
60		3.6	31.2
50		2.1	32.7
40	646.63	0.6	34.2
30		10.9	35.7
20		9.4	37.2
10		7.9	38.7
10300		6.2	40.4
290		4.7	41.9
80		3.2	43.4
70		2.8	43.8
60			
50			

N2580

646.63

Z-13-33

E 10270		3.4	43.2
80		4.6	42.0
90		6.0	40.6
10300		7.6	39.0
10		9.1	37.5
20		10.7	35.9
30	634.81	12.1	34.5
40		1.7	33.1
50		3.1	31.7
60		4.8	30.0
70		5.7	29.1
80		6.8	28.0
90		8.1	26.7
10400		9.4	25.4
10		10.6	24.2
20		11.6	23.2
30		11.7	23.1
40		12.6	22.2
50		13.4	21.4

2-13-33

N 2580

634.81

E10460	13.9	20.9
70	13.9	20.9
80	14.1	20.7
90	14.0	20.8
10500	13.6	21.2

N 2570

10500	13.8	21.0
490	13.8	21.0
80	14.1	20.7
70	14.0	20.8
60	14.0	20.8
50	13.6	21.2
40	12.9	21.9
30	12.1	22.7
20	11.7	23.1
10	11.4	23.4
10400	10.2	24.6
390	9.1	25.7

2-13-33

N 2570

634.81 ✓

E10380		8.0	26.8
70		6.7	28.1
60		5.7	29.1
50		4.4	30.4
40		2.9	31.9
30		1.5	33.3
20	646.63 ✓	0.1	34.7
10		10.6	36.0
10300		9.0	37.6
290		7.4	39.2
280		5.7	40.9
270		4.2	42.4

Continued in B 428-P1

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.