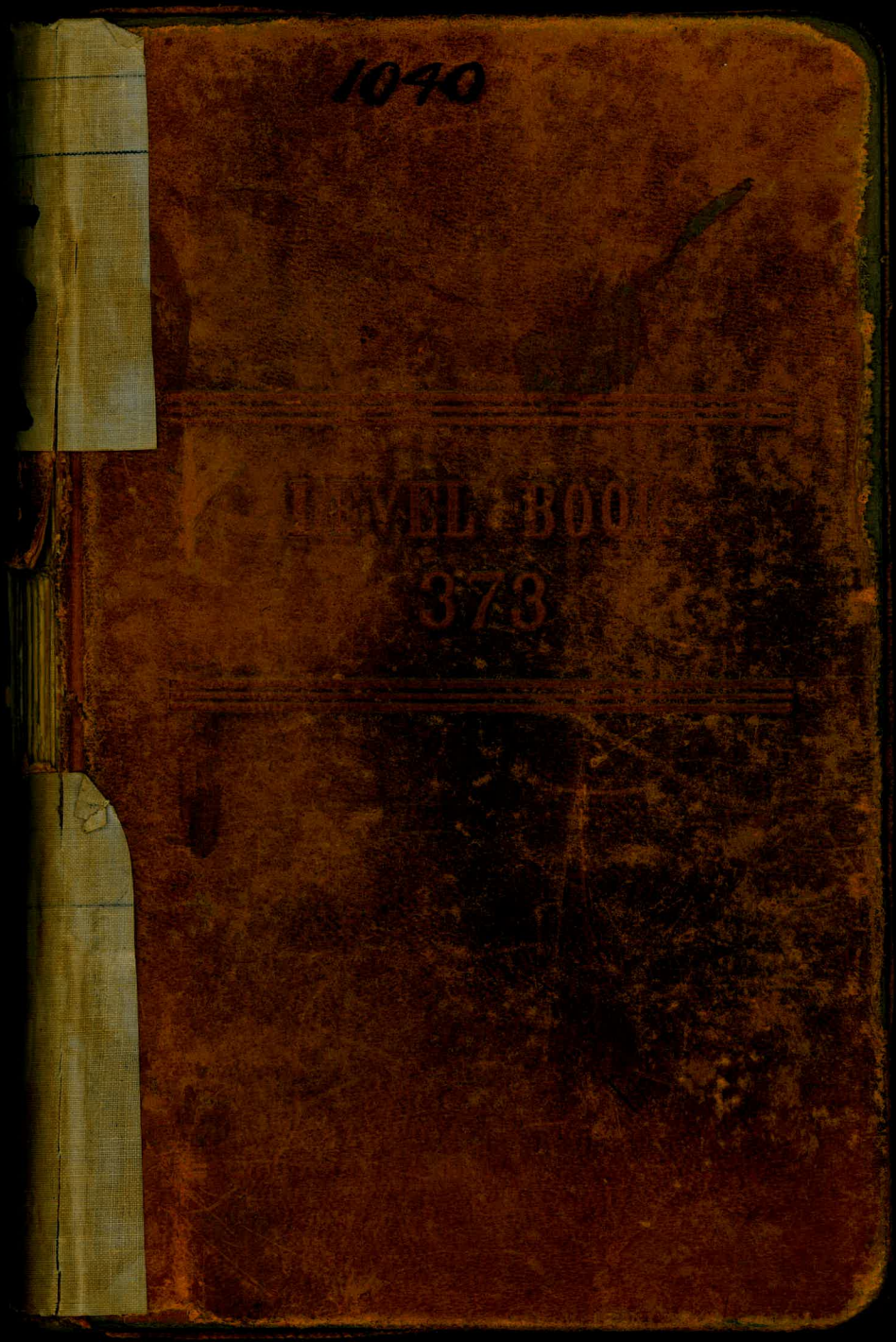

1040
TRAVEL BOO
378

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.

BM 419.06 W.R.P. Hub - City Line

BM 438.05 W.R.P. Hub Sta 104+00

99+32	+0.7		Pavement	16.95	-2.4
+50	+0.4			17.67	-2.3
100	+0.6			18.78	+3.0
+50	+0.4			21.89	-2.6
101	+0.9			4[illegible].00	
+50	+1.8			26.57	-0.3
102	+2.9			29.14	+1.7
+50	+2.5			31.77	+2.5
103	+2.1			34.29	+2.8
+50	+1.3			436.86	+2.4
104	+0.2			438.83	+2.0
+50	-0.6			439.67	+2.2
105	-1.8			439.2	+1.2
+50	-2.2			437.6	+0.7
106	-1.7			35.4	+1.5
+50	-1.2			33.2	+1.8
107	-0.9			31.0	+2.1
+50	-1.1			28.8	+1.9
108	-2.4			26.6	+1.2
+50	-2.4			24.[illegible]	+0.6

398.96 BM. E. R.P. Hub Sta 117+00

415.85 BM. E. R.P. Hub Sta 109+70.5

109			22.2	+0.6
	+50	-2.2	20.0	+0.7
110		-1.7	17.8	+1.1
	+50	-1.6	15.6	+0.7
111		-1.8	13.4	+0.3
	+50	-1.9	11.2	+0.4
112		-2.0	409.0	-0.3
	+50	-2.6	408.0	-1.7
113		-4.1	407.0	-2.7
	+50	-1.9	406.0	+2.9
114		-0.5	405.0	+1.4
	+50	-1.1	404.0	-0.5
115		-2.0	403.0	-0.2
	+50	-1.3	402.0	-1.1
116		-0.3	400.56	+0.7
	+50	-0.7	399.12	-0.3
117		-1.3	97.68	+0.3
	+50	-0.3	96.24	+1.0
118		0.0	94.80	+0.9
	+50	-0.6	93.36	0.0
119		-1.6	91.92	-1.1

		91.29			
+50	-2.5	90.57	90.48		-2.1
		89.85			
120	-3.4	89.13	89.04		-2.9
		88.41			
+50	-2.1	87.69	87.60		+0.1
		86.97			
121	-1.3	86.25	86.16		+0.1
		85.53			
+50	-1.8	84.81	84.72		-0.5
		84.09			
122	-1.4	83.37	83.28		-0.8
		82.65			
+50	-0.8	81.93	81.84		0.0
		81.21			
123	+0.1	80.49	80.40		+0.5
		79.77			
+50	+0.8	79.05	78.96		+0.9
		78.33			
124	+1.5	77.61	77.52		+1.7
		76.89			
+50	+0.9	76.17	2.88% 76.08		+2.6
		75.45			
125	+1.3	74.73	74.64		+2.6
		74.01			
+50	+1.3	73.29	73.20		+2.4
		72.57			
126	-2.2 ditch	71.85	71.76		+1.8
		71.13			
+50	-1.1 "	70.41	70.32		+1.7
		69.69			
127	-0.8	68.97	68.88		+0.8
		68.25			
+50	-1.3	67.53	67.44		0.0
		66.81			
128	-1.4	66.09	366.0		-0.2
		65.98			
+50	-2.2	65.87	65.78		-1.2
		65.76			
129	-2.7	65.66	65.57		-1.6
+50	-2.9	65.55 65.45	65.36		-1.5

274.56 BM. W.R.P Hub Sta 125+44 ±

71.74 HI
71
64.60 TP
6.77
71.37 HI
0.13
71.24 TP
10.83
82.07 HI
1.42
80.65 TP
8.70
89.35 HI
0.29
89.06 TP
11.34
~~450.40~~ HI

65.36/6.38 65.57/5.80 65.78/5.59 66.0/5.37 67.44/3.93 68.88/2.49 70.32/11.75 71.76/10.31

73.20/8.87 74.64/7.43 76.08/6.00 77.52/4.55 78.96/3.11 80.40/8.95 81.84/7.51 83.28/6.07

84.72/4.63 86.16/3.20 87.60/1.75 89.04/0.31 90.48/88.35/2.13 90.48/9.92 90.48/9.2

89.06/1.39
90.45 HI
10.28
80.17 TP
1.87
82.04 HI
11.39
70.65 TP
0.39
71.04 HI

89.04/1.41 87.60/2.85 86.16/4.30 84.72/5.73 83.28/7.17 81.84/8.61 80.40/10.05

78.96/3.68 77.52/4.5 76.08/5.96 74.64/7.40 73.20/8.8 71.76/10.28 65.36/5.68

70.32/0.72 68.88/2.16 67.44/3.60 66.0/5.04 65.78/5.26 65.57/5.47

91.92 TP
0.52
92.44
12.04
80.40
1.30
81.70

90.48/1.96 89.04/3.40 87.60/4.84 86.16/6.28 84.72/7.72 83.28/9.16 81.84/10.60 80.40/12.04

78.96/2.74 77.52/4.18 | 74.56 / 7.11 / 81.67 / 12.79 / 68.88 | 71.76/9.91 70.32/11.35 68.88/12.59

68.88 TP
0.27
69.15

67.44/1.71 66/3.15 65.78/3.37 65.57/3.58 65.36/3.79

69.48
0.51
68.97
12.71
81.68

65.45/4.03 65.55/3.93 65.66/3.82 65.76/3.72 65.87/3.61 65.98/3.50 66.09/3.39 66.81/2.67 67.53/1.95 68.25/1.23 68.97/0.51

69.69/11.99 70.41/11.27 71.13/10.55 71.85/9.83 72.57/9.11 73.29/8.39 74.01/7.67 74.73/6.95 75.45/6.23 76.17/5.51 76.89/4.79 77.61/4.07 78.33/3.35

78.33
11.50
89.83

79.05/10.78 79.77/10.06 80.49/9.34 81.21/8.62 81.93/7.90 82.65/7.18 83.37/6.46 84.09/5.74 84.81/5.02 85.53/4.30 86.25/3.58 86.97/2.86 87.69/2.14 88.41/1.42 89.13/0.70

89.13
11
100.13

89.85/10.28 90.57/9.56 91.29/8.84

351.01 - BM. E.R.P. Hub 141+36 PC

365.70 " " E.R.P. Hub 135+05

130		−2.0	65.34 65.23 65.12	65.14	−0.9
	+50	−1.1	65.01	64.93	+0.4
131		+0.6	64.91 64.80	64.71	+1.9
	+50	+0.1	64.69 64.59	64.50	+1.7
132		−0.7	64.48 64.37	64.28	+1.1
	+50	−0.8	64.26 64.16	64.07	+0.2
133		−1.1	64.06 63.95	63.86	+0.2
	+50	−0.6	63.84 63.73	63.64	+1.2
134		−0.1	63.62 63.52	63.43	+1.7
	+50	+1.1	63.41 63.30	63.21	+1.7
135		+2.2	63.20 63.09	63.0	+2.5
	+50	+1.1	62.98 62.88	62.19	+2.2
136		+1.0	61.87 61.46	61.37	+2.2
	+50	+0.2	61.05 60.65	60.56	+1.5
137		0.0	60.25 59.84	59.75	+1.3
	+50	−0.2	59.43 59.03	58.94	+1.0
138		−0.5	58.62 58.21	58.12	+0.6
	+50	−0.8	57.80 57.40	57.31	0.0
139		−1.2	57.00 56.69	56.50	−0.9
	+50	−1.9	56.19 55.78	55.69	−1.5
140		−2.4	55.38 54.96	54.87	−2.3

365.51 BM. R.P. Hub Sta 149+42.75

350.62 BM. W.R.P. Hub Sta 146+76.42 EC

351.01 " E.R.P. Hub Sta 141+33.6 PC

+50	-2.2	54.06	54.06	54.06	-2.6							
141	-2.6	53.95	53.75	53.55	-2.8							
+33.6 P.C.	-1.8	52.70	53.20	53.20	-3.3							
+50	-2.0	51.94	52.44	52.94	-3.0							
142	-1.9	51.17	51.67	52.17	-2.5							
+50	-1.4	50.31	50.81	51.31	-3.8							
143	-1.5	49.50	50.00	50.50	-1.5							
+50	-0.1	49.77	50.27	50.77	-1.5							
144	-1.4	50.04	50.54	51.04	-1.5							
+50	-1.3	50.31	50.81	51.31	-1.5							
145	-1.4	50.58	51.08	51.58	-1.1							
+50	-1.3	50.86	51.36	51.86	-1.8							
EC +76.42	-1.0	351.00	351.50	352.00	-1.6							
146		51.55	51.88	52.27								
+50	-1.4	52.69	52.69	52.69	-1.1							
147	-0.9	53.59	353.50		-0.7							
+50	-1.3	55.40	55.31		-1.3							
148	-0.6	57.21	57.12		-1.2							
+50	+2.1	59.04	358.93		+0.9							
149	+1.7	60.61	360.52		+2.0							
+50	+3.7	61.68	361.59		+2.8							
150+00	+4.9	62.20	362.11		+4.4							

	Paving	Paving
Sta 142+60	50.48	50.81	51.14
+75	50.14	50.47	50.80
143	49.94	50.27	50.60
+25	49.87	50.20	50.53
+50	49.94	50.27	50.60

54.80 E. R. P Hub Sta 155+00

54.68 HI
2.56
52.12 TP
7.51
59.63 HI
7.39
52.24 TP
3.02
55.26 HI
54.82
8.07
62.89 HI
0.43
62.46 T.B
5.87
68.33 HI

68.71 HI
354.82
3.10
357.92 HI
349.78 TP

50.02/4.66 50.48/4.20 50.92/3.76 51.38/3.30 51.83/2.85 52.28/2.40 52.73/1.95
53.19/1.49 53.64/6.00 54.09/5.54 54.55/5.08 55.00/4.63 55.85/3.76 56.70/2.91 57.55/2.06
58.40/1.21 53.19/2.05 52.73/2.51 52.28/2.96 51.83/3.41 51.38/3.86 50.92/4.32 50.48/4.76
50.02/5.22 55.85/7.04 56.70/6.19 57.55/5.3 58.40/4.49 59.25/3.64 60.10/2.79 60.95/7.38
61.80/6.53 62.20/6.13 62.20/6.5 61.80/6.9 60.95/7.76 60.10/8.61 59.25/9.46

356.11
50.02/6.09 50.48/5.63 50.92/5.19 51.38/4.73 51.83/4.28 52.28/3.83 52.73/3.38 53.19/2.92 53.64/2.47
54.09/2.02 54.56/1.56 55/1.11

354.80
9.72
364.52
55.85/8.67 56.70/7.82 57.55/6.97 58.40/6.12 59.25/5.27 60.10/4.42 60.95/3.57 61.80/2.72 62.20/2.32

63.75 62.20/1.55 61.80/1.95 60.95/2.80 60.10/3.65 59.25/4.50 58.40/5.35

362.70 62.26/0.44 62.29/0.41 62.14/0.56 61.89/.81 61.46/1.24 61.04/1.66 60.61/2.09 60.19/2.51

360.19
1.00
361.19
54.76/1.43 54.34/1.85 58.92/2.27 58.49/2.70 58.06/3.13 57.64/3.55 57.21/3.98 56.79/4.40 56.37/4.82 55.94/5.25 55.52/5.67 55.09/6.10 54.86/6.33
54.64/6.55 54.41/6.78 54.18/7.01

54.18
1.33
55.51
53.95/1.56 53.73/1.78 53.51/2.00 53.28/2.23 53.05/2.46 52.82/2.69 52.60/2.91 52.37/3.14 52.14/3.37 51.92/3.59 51.69/3.82 51.47/4.04 51.24/4.27 51.01/4.50
50.79/4.72 50.57/4.94 50.34/5.17 50.11/5.40

		62.26			
+50	+1.7	62.29	362.20		+0.8
		62.14			
151	+1.8	61.89	361.80		+0.8
		61.46			
+50	+2.8	61.04	60.95		+1.9
		60.61			
152	+3.0	60.19	60.10		+1.4
		59.76			
+50	+1.9	59.34	59.25		+1.2
		58.92			
153	+0.7	58.49	58.40		+0.4
		58.06			
+50	-0.1	57.64	57.55		0.0
		57.21			
154	-0.5	56.79	56.70		-0.3
		56.37			
+50	-0.3	55.94	55.85		-0.6
		55.52			
155	-0.2	55.09	355.00		-0.2
		54.86			
+50	-0.3	54.64	54.55		-0.4
		54.41			
156	-0.5	54.18	54.09		-0.1
		53.95			
+50	-0.6	53.73	53.64		-0.7
		53.51			
157	-1.1	53.28	53.19		-0.9
		53.05			
+50	-1.5	52.82	52.73		-1.0
		52.60			
158	-0.8	52.37	52.28		-1.1
		52.14			
+50	-0.8	51.92	51.83		-1.6
		51.69			
159	-1.8	51.47	51.38		-1.0
		51.24			
+50	-2.0	51.01	50.92		-1.8
		50.79			
160	-1.5	50.57	50.48		-1.5
		50.34			
+50	-1.1	50.11	50.02		0.8

48.11 - BM. W.R.P Hub Sta 163+00

57.96 H.I.
7.25
47.71 T.P.
3.48
51.19 H.I.
4.95
46.24 T.P.
7.45
53.69 H.I.
4.14
49.55 T.P.
5.13
54.68 H.I.
8.75
52.84 H.I.
3.97
48.94 T.P.
8.83
57.77 H.I.

55.24 H.I.
5.00
50.24 T.P.
2.40
52.6 H.I.
8.55
44.09 T.P.
48.11
4.77
52.88 H.I.
6.95
45.93 T.P.
2.72
48.65 H.I.

49.83/5.13 49.44/5.52 49.05/5.90 48.65/6.31 48.26/6.70 47.86/3.33 47.47/3.72 47.08/4.11

46.68/4.51 46.29/4.90 45.89/5.30 45.50/5.19 45.95/5.24 46.40/4.79 46.86/6.82 47.31/6.28

47.76/5.93 5.51/48.11 48.21/5.48 48.67/5.02 49.12/4.57 49.57/4.12

49.83/5.41 49.44/5.80 48.67/4.00 48.21/4.43 47.76/4.88 47.31/5.33 46.86/5.78

46.40/6.24 45.95/6.69 45.50/7.14 45.89/6.75 46.29/6.55 46.68/6.86 47.08/5.56

47.47/6.37 47.86/5.00 48.26/4.58 48.65/4.19 49.05/3.80 49.44/8.33 49.83/7.94

45.68/2.97

356.07
6.63
49.44
2.56
52.00
3.91
48.09 = 48.11 BM.

49.93/6.24 49.44/6.63

49.05/2.95 48.65/3.35 48.26/2.74 47.86/4.14 47.47/4.53 47.08/4.92 46.68/5.32 46.29/5.71 45.89/6.11 45.50/6.50 45.95/6.05 46.40/5.60

46.76/5.14 47.31/4.69 47.76/4.24

348.11 =
8.00
356.11

48.21/7.90 48.67/7.44 49.12/6.99 49.57/6.54

55.51

49.89/5.62 49.66/5.85 49.44/6.07 49.21/6.30 48.98/6.53 48.76/6.75 48.53/6.98 48.30/7.21 48.07/7.44 47.85/7.76

47.85
3.37
51.22

47.63/3.59 47.40/3.82 47.17/4.05 46.95/4.27 46.72/4.50 46.49/4.73 46.26/4.96 46.04/5.18 45.82/5.40 45.59/5.63 45.78/5.44 45.98/5.24 46.18/5.04 46.38/4.84

51.15 H.I.

46.57/4.58 46.77/4.38 46.97/4.18 47.17/3.98 47.36/3.79 47.56/3.59 47.76/3.39 47.95/3.20 48.15/3.00 48.35/2.80 48.55/2.60 48.74/2.41 48.94/2.21 49.14/2.01

49.14
6.07
55.21

49.34/5.87 49.53/5.68 49.72/5.49 49.92/5.29 50.12/5.09 50.32/4.71 49.92/5.11 50.13/4.90 49.72/5.31 49.53/5.50

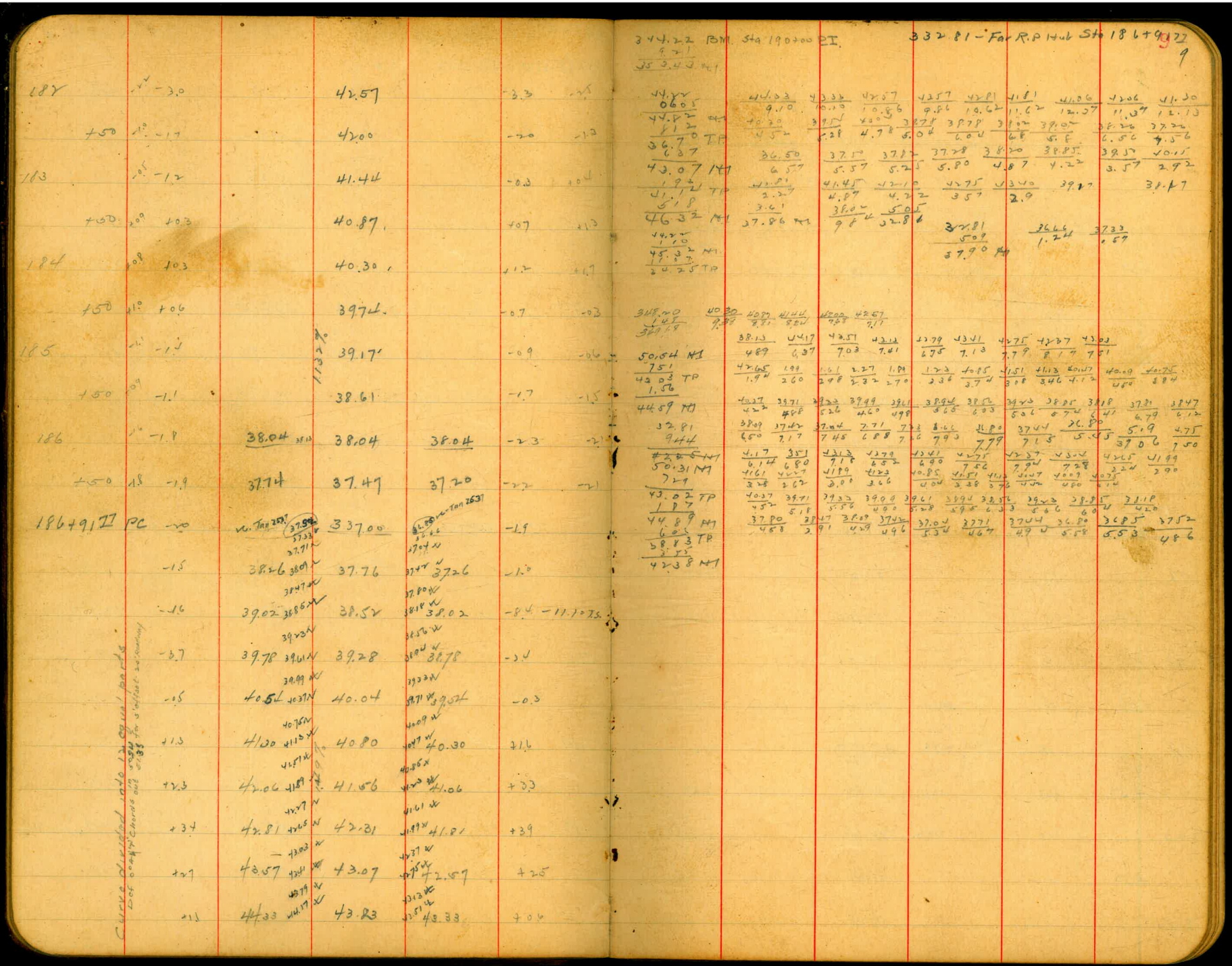
51.98
3.05
55.03 H.I.

		51.15 6.38 47.7	51.15 3.0			
			49.89			
161	-0.1		49.66	49.57		+1.0
			49.44			
+50	+0.3		49.21	49.12		+1.4
			48.98			
162	+1.5		48.76	48.67		+1.5
			48.53			
+50	+0.6		48.30	48.21		+1.0
			48.07			
163	+1.1		47.85	47.76		+0.9
			47.62			
+50	+0.4		47.40	0.905% 47.31		+0.6
			47.17			
164	-0.4		46.95	46.86		+0.3
			46.72			
+50	-0.2		46.49	46.40		+0.1
			46.26			
165	-2.2		46.04	45.95		-1.3
+30			45.82	45.68		
+50	-3.0		45.59	345.50		-3.1
			45.78			
166	-1.5		45.98	45.89		-1.8
			46.18			
+50	-0.6		46.38	46.29		-1.9
			46.57			
167	-0.2		46.77	46.68		-0.1
			46.97			
+50	+1.3		47.17	47.08		-0.1
			47.36			
168	+1.1		47.56	47.47		-0.2
			47.76			
+50	+0.1		47.95	0.788% 47.86		-0.8
			48.15			
169	-0.4		48.35	48.26		-0.8
			48.55			
+50	-0.6		48.74	48.65		-0.8
			48.94			
170	-0.7		49.14	49.05		-0.4
			49.34			
+50	-0.2		49.53	49.44		+0.1
			49.72			
171	+0.6		49.92	49.83		+1.2

348.20 - W.R.P. Hub Sta 177+35

351.98 - W.R.P. Hub Sta 177+17.8

	+50	+0.9	50.13 / 50.92 / 50.62	50.73	+1.6
172		+1.4	50.71 / 50.91	50.62	+1.5
	+50	+0.8	51.11 / 51.31	51.02	+1.3
173		+0.5	51.50 / 51.69	51.41	+0.9
	+50	+0.4	51.89 / 51.95 / 52.13 / 52.12 / 51.94	51.80	+0.9
174		-0.2		352.20	+0.1
	+50	+0.0	51.91	51.95	+0.2
175		+0.1	51.79 / 51.67	51.70	+0.1
	+50	-0.3	51.64 / 51.39	51.45	+0.1
176		-0.1	51.16 / 50.90	351.2	+0.2
	+50	+1.0	50.54 / 50.17	50.45	+1.3
177		+2.6	49.79 / 49.41	49.70	+3.6
	+50	+2.1	49.0	48.96	+6.4
178		-0.5 -0.9		48.20	-0.2 +0.1
	+50	-2.2 -2.7		47.45	-2.1 -1.6
179		-2.3 -2.9		46.70	-3.5 -2.9
	+50	-1.0 -1.7		45.95	-2.1 -1.4
180		-1.6 -2.4		45.20	-2.8 -2.0
	+50	-2.0 -2.9		44.45	-2.3 -1.4
181		-2.2 -3.2	43.99	43.70	-3.1 -2.1
	+50	-1.0 -2.5		43.13	-3.3 -2.4



		+0.7	45.09	44.55✓ 44.93✓	44.59	44.89✓ 44.37✓	44.09	+0.4
		0.0	45.85	45.31✓ 45.69✓	45.35	44.65✓ 45.03	44.85	+0.7
193	+02.95 E.C.	+0.9	46.61	46.07✓ 46.44	46.11	45.41✓ 45.78	45.61	+1.8
	+50	+1.0	46.81	46.9	46.81	46.9	46.81	+0.1
194		-0.3			47.55			+1.4
	+50	-0.4			48.30			+1.1
195		+1.4			49.05			-0.3
	+50	-0.3		1.49	49.79			-0.7
196		-0.8			50.54			-0.8
	+50	-1.0			51.28			-1.3
197		-1.4			52.02			-0.2
	+50	-0.9			52.77			-1.6
198		-0.2			53.51			-1.6
	+50	-0.4		54.35	54.26	54.35		-0.5
199		0.0	K.	4.66 4.86	4.57 355.0			-1.1
	+50	+0.8		4.94 4.91	4.77 4.85 54.82	54.91		-0.4
200		+1.0		4.84 54.73	54.66			-0.3
	+50	+1.3			54.46			+0.9
201		+1.6			54.28			+1.7

358.37 BM Sta 200+00 W R.P. Hub.
347.20 " " Sta 193+02.95 W R.P. Hub.

60.09 HI
8.23
51.86 TP
2.65
54.51 HI
7.28
47.23 TP
353.43 HI

47.20
3.34
50.54 HI
58.37
1.72
360.09 HI
54.73
5.15
59.88 HI
50.31 HI
1.36
58.37
59.73 HI
58.37
1.59
59.96 HI

54.28/5.81 54.46/5.63 54.64/5.45 5.06/55.83 1.72/58.37 54.82/5.27 55.00/5.09
54.26/5.83 53.51/6.58 52.77/7.32 52.02/8.07 51.28/3.20 50.54/3.97 49.79/4.72
49.05/5.46 48.30/6.21 47.55/6.96 46.81/7.70 46.61/7.90 45.61/8.90
46.6/6.8 45.6/7.8 6.23/47.20 5.85/7.58 4.85/8.58 44.09/9.34 45.09/8.34
46.44/4.10 45.78/4.76 45.41/5.13 46.07/4.47 45.69/4.85 45.03/5.51 44.65/5.89 45.31/5.23 44.93/5.61 44.27/6.27 43.89/6.65 44.55/5.99
54.73/5.36 54.35/5.53 54.66/5.22 54.86/5.02 4.94/4.94 4.91/4.97 4.82/5.06
47.20/5.14 46.90/5.44 46.44/3.84 46.07/4.24 45.69/4.62 45.41/4.90 45.02/5.28
52.34 HI 45.21/5.00 4.65/5.66 4.93/5.38 4.27/6.04 3.89/6.42 4.55/5.76 44.44/5.72 45.78/6.38
54.73/5.00 1.76/58.37 60.13 HI 54.73/5.40 4.96/47.20 52.16 HI 46.40/5.76 49.88/2.28 50.63/1.53 50.26/2.90
4.82/5.14 4.91/5.05 4.94/5.02 4.86/5.10 4.66/5.30 4.35/5.61

	+50	+2.2		54.11		+0.4
202		+0.7		53.93		+0.1
	+50	-0.5		53.75		-0.3
203		-0.8	0.357,47	53.57		-0.9
	+50	-0.7		53.39		-1.2
204		-0.6		53.21		-0.6
	+50	-1.1		53.04		-1.4
205		-1.7		52.86		-1.8
	+50	-2.5		52.68		-1.8
206		-2.4	52.59	352.50	52.59	-0.2
	+50	-2.2		52.45		-1.1
207		-1.7		52.39		-0.5
	+50	-0.5		52.33		-0.5
208		-1.3		52.28		+0.5
	+50	-0.6		52.22		+1.4
209		0.0	[illegible]	52.16		+2.2
	+50	-1.1		52.11		+0.1
210		-1.0		52.05		-0.6
	+50	-0.7	52.09	352.00	52.09	-0.7

353.06 BM. Sta 204+92.08 E R.P. 1446

58.72 HI
7.65
51.07
7.25
58.32 HI
8.09
50.23 T.P.
8.31
58.54 HI
2.70
55.84 T.P.
4.25
60.09 HI
53.06 / 5.29
58.35 HI

52.00 / 6.72 — 52.05 / 6.67 — 52.11 / 6.61 — 52.16 / 6.16 — 52.22 / 6.10 — 52.28 / 6.04 — 52.33 / 6.00

52.39 / 5.93 — 52.45 / 5.87 — 52.50 / 5.82 — 52.68 / 5.64 — 52.86 / 5.68 — 54.8 / 53.06 — 53.04 / 5.50

53.21 / 5.23 — 53.39 / 5.16 — 53.57 / 4.97 — 53.75 / 4.79 — 53.93 / 4.61 — 54.11 / 4.43 — 52.59 / 5.76

53.06 BM
4.22
57.28 HI

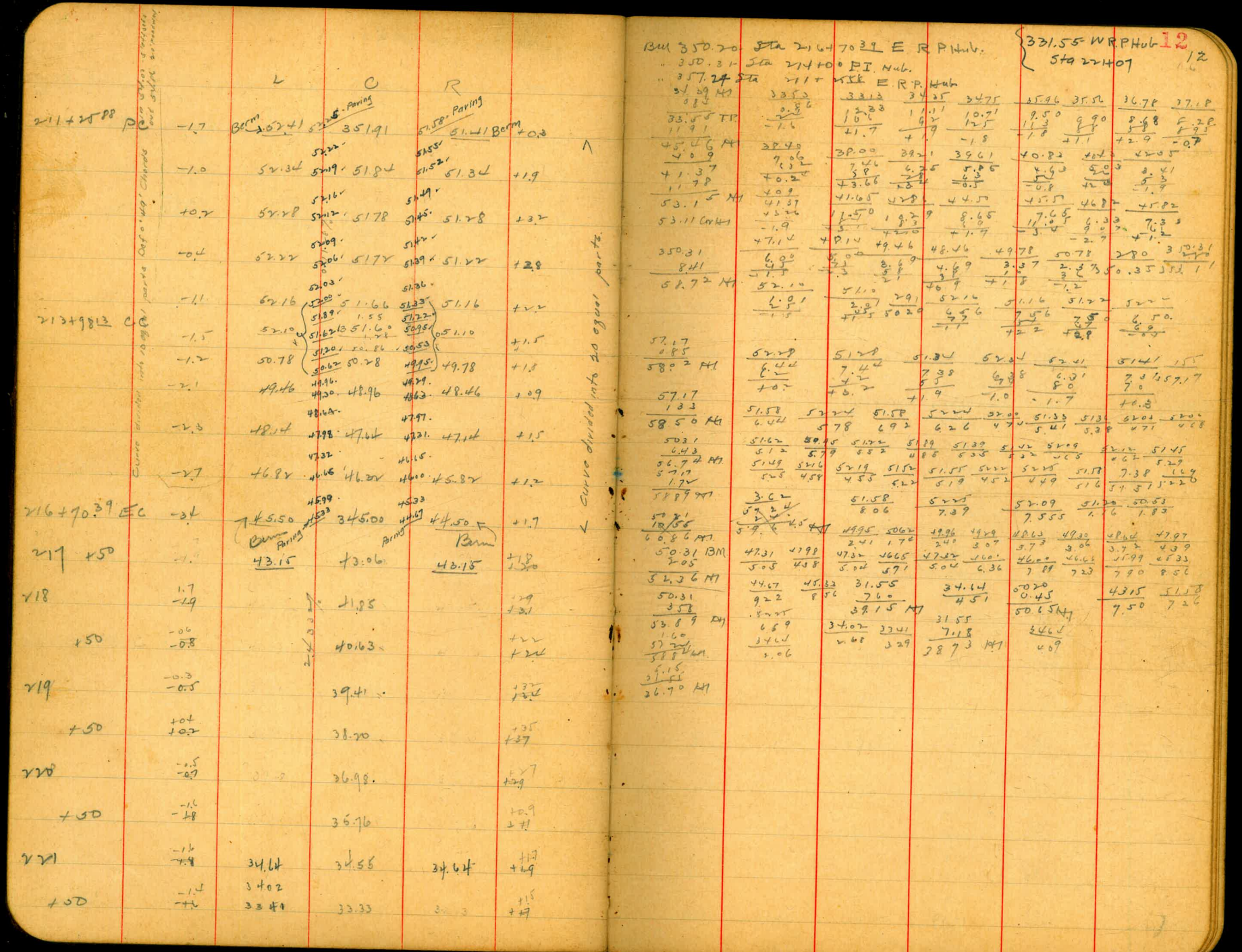
52.59 / 4.69

52.09 / 6.41

53.06
4.45
57.51 HI

52.59 / 4.92

58.50 HI



		L	C	R	
222	-1.6 / -1.8	32.80 / 32.19	32.11		+1.6 / +1.8
+50	-1.5 / -1.7	31.58 / 30.98	30.90		+1.2 / +1.4
223	-2.1 / -2.3	30.37 / 29.77	29.68		-0.3 / -0.1
+50	-2.3 / -2.5	29.16 / 28.55	28.46		-0.4 / -0.2
224	-2.5 / -2.7	27.94 / 27.34	27.25		-0.9 / -0.7
+50	-2.4 / -2.6	26.73 / 26.12	26.03		-1.2 / -1.0
225	-2.1 / -2.3	25.51 / 24.90	24.81		-1.4 / -1.2
+50	-2.2 / -2.4	24.29 / 23.69	23.60		-1.2 / -1.0
226	-2.8 / -3.0	23.08 / 22.47	22.38		-1.2 / -1.0
+50	-2.7 / -2.9	21.86 / 21.25	21.16	21.25	-1.7 / -1.5
227	-2.1 / -2.3	20.64 / 20.04	19.95		-1.2 / -1.0
+50	-0.9 / -1.1	19.43 / 18.82	18.73		+0.2 / +0.4
228	+1.1 / +0.9	18.21 / 17.60	17.51		+2.2 / +2.4
+50	+1.2 / +1.0	16.99 / 16.39	16.30		+2.0 / +2.2
229	+0.4 / +0.2	15.78 / 15.17	15.08		+1.6 / +1.8
+50	0.0 / -0.2	14.56 / 13.95	13.86		+1.4 / +1.6
230	-0.2 / -0.4	13.34 / 12.73	12.65		+1.0 / +1.2
+50	0.0 / -0.2	12.12 / 11.52	11.43		+0.3 / +0.5
231	-0.2 / -0.3	10.91 / 10.30	10.21	10.30	+0.0
+4987 PC		8.50	8.9 Paving 9.00	9.3 paving 9.50	

315.15 HI
1.49
313.66 TP
11.34
325.00 HI
1.60
23.40 TP
10.99
34.39 HI
45.46 HI

10.86 / 4.79 / +0.1 — 10.00 / 5.09 / -0.3 — 11.62 / 3.52 / 3.7 / -0.2 — 11.23 / 3.92 / 3.4 / +0.5 — 150 / 1.36 / +1.2 — 12.85 / 12.15 / 12.5 / -0.4 — 14.06 / 1.92 / -0.2 — 13.66 / 11.34 / 9.7 / +1.6

14.88 / 10.12 / 8.3 / +1.8 — 15.28 / 9.72 / 9.5 / +0.2 — 16.50 / 8.50 / 7.5 / +1.0 — 16.10 / 9.10 / 6.9 / +2.2 — 17.31 / 7.69 / 3.2 / +2.4 — 17.71 / 7.29 / 6.36 / +0.9 — 18.93 / 6.07 / 7.13 / +1.1 — 18.53 / 6.47 / 6.05 / +0.4

19.75 / 5.25 / 6.2 / -1.0 — 20.15 / 4.85 / 7.15 / -2.3 — 21.36 / 3.64 / 6.5 / -2.9 — 20.96 / 4.04 / 5.5 / -1.5 — 22.18 / 2.82 / 3.8 / -1.0 — 22.58 / 2.42 / 5.4 / -3.0 — 23.80 / 1.26 / 3.6 / -2.4 — 23.40 / 1.60 / [illegible] / -1.0

24.60 / 9.40 / 1.6 / -1.2 — 25.01 / 9.38 / 11.7 / -2.3 — 26.23 / 8.16 / 10.7 / -2.6 — 25.83 / 8.56 / 9.5 / -1.0 — 27.05 / 7.24 / 8.0 / -0.7 — 27.45 / 6.94 / 9.6 / -2.7 — 28.66 / 5.73 / 8.2 / -2.5 — 28.26 / 6.13 / 6.29 / -0.2

29.48 / 4.91 / 4.0 / -0.1 — 29.88 / 4.51 / 6.8 / -2.3 — 31.10 / 3.29 / 5.0 / -1.7 — 30.70 / 3.69 / 2.3 / +1.4 — 32.31 / 2.08 / 3.9 / -1.8 — 31.91 / 13.55 / 11.7 / +1.8

36.70 HI
8.15
28.55 TP
1.33
29.88 HI
7.41
22.47 TP
0.90
23.37 HI
12.10
4.22
16.32 HI

32.80 / 3.90	32.19 / 4.51	31.58 / 5.12	30.98 / 5.72	30.37 / 6.33	29.77 / 6.93	29.16 / 7.54	28.55 / 8.15	27.94 / 1.94	27.34 / 2.54
26.73 / 2.15	26.12 / 3.76	25.51 / 4.37	24.90 / 4.98	24.29 / 5.59	23.69 / 6.19	23.08 / 6.80	22.47 / 7.41		
21.86 / 1.51	21.25 / 2.12	20.64 / 2.73	20.04 / 3.33	19.43 / 3.94	18.82 / 4.55	18.21 / 5.16	17.60 / 5.77	16.99 / 6.38	16.39 / 6.98
15.78 / 7.59	15.17 / 8.20	14.56 / 8.81	10.30 / 6.02	14.56 / 1.76	13.95 / 2.37	13.34 / 2.98	12.73 / 3.69	12.12 / 4.20	11.52 / 4.80
10.91 / 5.41	10.30 / 6.02	9.48 / 6.84	9.81 / 6.51						

Sta		L Berm	paring	C	Paring	R Berm	
231+49.82	P.C. -0.1	8.50	8.67	309.0	9.33	9.50	+0.4
+75			8.00 ✓		8.67 ✓		
232	+0.4	7.17	7.33 ✓	7.67	8.00 ✓	8.17	+0.8
+50	+1.5	5.83	6.67 ✗ / 6.00 ✗	6.33	7.33 ✗ / 6.67 ✗	6.83	+1.8
233	+1.8	4.50	5.33 ✗ / 4.67	5.00	6.00 ✗ / 5.33 ✗	5.50 ✓	+2.1
+50	+2.3	3.17	4.00 ✓ / 3.33 ✓	3.67	4.67 ✓ / 4.00 ✓	4.17 ✓	+2.5
234	+3.7	1.83	2.67 ✓ / 2.00 ✓	2.33	3.33 ✓ / 2.67	2.83	+3.8
+50	+3.7	300.50	1.33 ✓ / 300.67 ✓	301.00	2.00 ✓ / 1.33 ✓	301.50	+3.4
235	-0.2	299.17	300.00 / 99.33 ✓	99.67	300.67 ✓ / 300.00 ✓	300.17	+3.4
+50	-4.4	97.83	98.67 ✓ / 98.00	98.33	99.33 / 98.67 ✓	98.83	-0.7
236	-4.9	96.50	97.33 / 96.67	97.00	98.00 / 97.33	97.50	-3.3
+50	-4.6	95.17	96.00 ✓ / 95.33 ✓	95.67	96.67 ✓ / 96.00 ✓	96.17	-3.6
237	-3.0	93.83	94.67 ✓ / 94.00	94.33	95.33 / 94.67	94.83	-3.4
+50	-1.1	92.50	93.33 / 92.67 ✓	93.00	94.00 ✓ / 93.33 ✓	93.50	-1.7
238	0.0	91.17	92.00 ✓ / 91.33 ✓	91.67	92.67 ✓ / 92.00 ✓	92.17	-0.6
+50	-0.8	89.83	90.67 ✓ / 90.00 ✓	90.33	91.33 ✓ / 90.67 ✓	90.83	-0.8
239	-0.9	88.50	89.33 ✓ / 88.67 ✓	89.00	90.00 ✓ / 89.33 ✓	89.50	-1.7
+50	+1.1	87.17	88.00 ✓ / 87.33 ✓	87.67	88.67 ✓ / 88.00 ✓	88.17	-1.5
240	+2.6	85.83	86.67 ✓ / 86.00 ✓	86.33	87.33 ✓ / 86.67 ✓	86.83 (V.C. see opp. page)	-0.3
+30.15	EC	84.50	85.33 / 84.67 Paring	285.0	86.00 / 85.33 Paring	85.50	

Curve divided into 18 equal parts - For 5' offset chords [illegible]

312.10 - Sta 231+49.82 E. R.R. Hub.

295.87 HI
1.68
294.19 TP
11.69
305.88 HI
1.08
304.80 TP
10.35
315.15 HI

12.10
1.01
13.11 HI
12.10
9.5
13.05 HI
10.80
2.25 TP
[illegible]
6.25 HI
87.55 BM
9.95
97.50 HI
87.55
5.30
92.85 HI

12.10
0.08
12.18 HI
1.018
2.00 TP
2.78
4.78 HI

303.03 HI

87.55
0.63
88.18 HI

87.55
2.15
89.70 HI

Sta		
	86.00	86.67
	85.40	86.04
240+30.15 EC	84.96	85.50
	84.64	85.04
	84.47	84.67
241+00	84.38	84.38

Sta.		L	C	R	
+30.15 EC +2.8	0 ... Paving = 84.67		285.0	85.33 = Paving	-0.3
240+50					
241	-1.5	84.38	84.29	84.38	-1.9
+50	-3.3		83.79	84.13 / 83.88	-3.2
242	-1.1		83.28	83.62 / 83.37	-2.1
+50	-0.4		82.78	83.11 / 82.87	+0.3
243	-0.5		82.27	82.61 / 82.36	+0.7
+50	-0.3		81.77	82.11 / 81.86	+0.8
244	-0.1		81.26	81.60 / 81.35	+1.1
+50	-0.5		80.76	81.10 / 80.85	+0.6
245	-1.1		80.25	80.60 / 80.34	+0.3
+50	-1.5		79.75	80.09 / 79.84	-0.9
246	-1.8		79.24	79.58 / 79.33	-1.3
+50	-1.9		78.74	79.08 / 78.83	-2.3
247	-2.5		78.23	78.57 / 78.32	-2.6
+50	-2.6		77.73	78.07 / 77.82	-2.5
248	-0.9		77.22	77.56 / 77.31	-2.2
+50	-0.7		76.72	77.06 / 76.81	-1.3
249	0.0		76.21	76.56 / 76.30	-1.2
+50	-0.7		75.71	76.05 / 75.80	-0.3

BM 287.55 No. R.P. Hub Sta 240+30.15

BM 275.71 W R.P. Hub Sta 246+98.26

281.48 HI
3.51
277.97 TP
9.63
287.60 HI
0.79
286.81 TP Hub PC
9.06
296.87 HI
88.18 HI
1.58
81.60 TP
0.56
82.16 HI
75.71
6.45
75.71
5.99
81.70 HI

75.71/5.77 76.21/5.27 76.72/4.76 77.22/4.26 77.73/3.75 78.23/3.25 78.74/2.74

79.24/2.24 79.75/7.85 80.25/7.35 80.76/6.84 81.26/6.34 81.77/5.83 82.27/5.33 82.78/4.82

83.28/4.32 83.79/3.81 84.29/3.31 85.50/2.10 84.50/3.10 84.50/1.37 8.32/287.55

84.13/4.05 83.88/4.30 83.62/4.56 83.37/4.81 83.11/5.07 82.87/5.31 82.61/5.57 82.36/5.82 82.11/6.07 81.86/6.32

81.60/6.58 81.35/0.81 81.10/1.06 80.85/1.31 80.60/1.56 80.34/1.82 80.09/2.07 79.84/2.32 79.58/2.58 79.33/2.83

79.08/3.08 78.83/3.33 78.07/4.09 78.57/3.59 78.32/3.38 78.07/2.63 77.82/3.88 77.56/4.14 77.31/4.39 77.06/4.64

76.81/4.89 76.56/5.14 76.30/5.40 76.05/5.65 75.80/6.90

		L	C	R	
				75.54 ✓	
250			75.20 .	75.29 ✓	
				75.04 ✓	
+50			74.70 .	74.79 ✓	
				74.53 ✓	
251			74.19 .	74.28 ✓	
				74.03 ✓	
+50			73.69 .	73.78 ✓	
				73.52 ✓	
252			73.18 .	73.27 ✓	
				73.02 ✓	
+50			72.68 .	72.77 ✓	
				72.51 ✓	
253			72.17 :	72.26 ✓	
				72.01 ✓	
+50			71.67 .	71.76 ✓	
				71.51 ✓	
254			71.16 .	71.25 ✓	
				71.00 ✓	
+50		70.74	70.65	70.74	
255					
	Berm	Paving		Paving	Berm
+15.08 P.C.	69.25	69.50	270.0	70.50	70.75
		69.08		70.08 ✓	
+50	68.41	68.66	69.16	69.66 ✓	69.91
		68.24		69.24 ✓	
256	67.57	67.82	68.32	68.82 ✓	69.07
		67.40		68.40 ✓	
+50	66.73	66.98	67.48	67.98 ✓	68.23
		66.56		67.56 ✓	
257	65.89	66.14	66.64	67.14 ✓	67.39
		65.72		66.72 ✓	
+50	65.05	65.30	65.80	66.30 ✓	66.55
		64.88		65.88 ✓	
258	64.21	64.46	64.96	65.46 ✓	65.71
+50					

Note – Curve divided into 15 equal parts

BM 274.83 Sta 251+00 – So. R.P.

BM. 271.63 – Sta 255+15.08 P.C. So. R.P.

269.02
8.95
277.97 HI

70.50 / 7.47 / 9.47 / –.20 — 70.65 / 7.32 / 9.0 / –1.7 — 71.16 / 6.81 / 8.8 / –2.0 — 71.67 / 6.30 / 8.1 / –1.8 — 72.17 / 5.80 / 7.3 / –1.5 — 72.68 / 5.29 / 5.44 / –.02 — 73.18 / 4.79 / 4.92 / –0.1 — 73.69 / 4.28 / 3.70 / +1.0

3.86
272.88 HI

74.19 / 3.78 / 3.5 / +1.28 — 69.50 / 8.47 / 9.37 / –0.9 — 69.71 / 3.13 / 3.23 / –1.06 — 68.93 / 3.95 / 3.85 / +0.1 — 68.14 / 4.74 / 6.0 / –1.3 — 67.35 / 5.53 / 6.3 / –0.8 — 66.56 / 6.32 / 7.2 / –0.9 — 65.78 / 7.10 / 8.1 / –1.0 — 64.99 / 7.89 / –0.46

69.02
5.68
74.70 HI

63.99 / 8.89 / 9.39 / –0.5 — 64.78 / 8.10 / 8.4 / –0.3 — 65.56 / 7.32 / 7.6 / –0.3 — 66.35 / 6.53 / 6.69 / –0.16 — 67.14 / 5.74 / 5.6 / +0.1 — 67.93 / 4.95 / 5.4 / –0.5 — 68.71 / 4.17 / 5.6 / –1.4 — 4.53 / 3.7 — 1.03 / 6.7 / 3.6

64.50 / 5.20 / 6.1 / –0.9 — 68.66 / 6.04 / 7.6 / –1.6 — 67.82 / 6.88 / 7.2 / –0.4 — 66.98 / 7.72 / 7.4 / +0.3 — 66.14 / 8.56 / 8.46 / +0.1 — 65.30 / 9.40 / 6.0 — 64.46 / 10.24 / 10.16 / +0.08 — 73.19 / 4.27

274.80
6.68
281.48 HI

65.46 / 9.24 / 9.8 / –0.6 — 66.31 / 6.40 / 6.0 / –0.6 — 67.16 / 7.56 / 8.06 / –0.5 — 67.98 / 6.72 / 7.7 / –1.0 — 68.82 / 5.88 / 5.6 / +0.2 — 69.66 / 5.04 / 6.0 / –1.0 — 70.50 / 4.20 / –2.0 — 3.95 / 75.41 — 73.79 / 3.67 / 4.23 / –0.56

74.70 / 6.78 — 75.20 / 6.28 — 70.50 / 6.96 — 69.50 / 7.96 — 70.78 / 6.68 — 71.38 / 6.08 — 71.99 / 5.47 — 72.59 / 4.87

71.63
5.83
77.46 HI

74.39 / 3.07 — 75.00 / 2.46 — 75.60 / 1.86

2.61
79.82
81.70 HI

75.14 / 6.16 — 75.29 / 6.41 — 75.04 / 3.26 — 74.79 / 3.61 — 74.53 / 3.77 — 74.28 / 4.02 — 74.03 / 4.27 — 73.78 / 4.52 — 73.52 / 4.78

6.41
75.29 T.P.

73.27 / 6.03 — 73.02 / 5.28 — 72.77 / 5.53 — 72.51 / 5.79 — 72.26 / 6.04 — 2.01 / 6.29 — 1.76 / 6.54 — 1.51 / 6.79 — 1.25 / 7.05 — 1.00 / 7.30 — 70.74 / 7.56

3.01
78.30 HI

70.50 / 3.57 — 69.50 / 4.37 — 70.08 / 2.87 — 69.66 / 3.29 — 69.24 / 3.71 — 68.82 / 4.13 — 68.40 / 4.55 — 67.98 / 4.97 — 67.56 / 5.39

~~71.63~~
~~2.24~~
~~73.87 HI~~

67.14 / 5.81 — 66.72 / 6.23 — 66.30 / 6.65 — 65.88 / 7.07 — 65.46 / 7.49

71.63
1.32
72.95 HI

	Berm	L	C	R	Berm
259	63.37	64.04 63.62 ✓	64.12	65.04 64.62 ✓	64.87
+50	62.53	63.20 62.78 ✓	63.28	64.20 ✓ 63.78 ✓	64.03
260	61.69	62.36 61.94 ✓	62.44	63.36 ✓ 62.94 ✓	63.19
+50	60.85	61.52 61.10 ✓	61.60	62.52 ✓ 62.10 ✓	62.35
261	60.01	60.68 60.26 ✓	60.76	61.68 ✓ 61.26 ✓	61.51
+50	59.17	59.84 59.42 ✓	59.92	60.84 60.42 ✓	60.67
262	58.33	59.00 58.58	59.08	60.00 ✓ 59.58 ✓	59.83
+50	57.49	58.16 57.74 ✓	58.24	59.16 ✓ 58.74	58.99
262+90.30 E.C.	56.65	57.32 56.90	57.40	58.32 57.90	58.15 Berm
263+50	56.09	56.20	56.44	56.66	56.77
264		55.62	55.62	55.62	+1.1
+50		54.81	54.81	54.81	+0.3
265	+0.3	54.09	254.0	54.09	-0.5
+50		.13 53.86	53.84 .18	53.81	-2.1
266		.29 53.13	53.67 .31	53.61	-2.6
+50		.37 53.49	53.51 .41	53.42	-4.3
267		.45 53.3	53.34 .45	53.33	-4.3
+50		.37 53	53.18 .29	53	-34
268		.05 53.11	53.02 .06	53.11	-04

Curve divided into 15 equal parts.
Stakes set 5' outside for 20' roadway
D of for 15: 2.9611
Chords { out 53.21, in 50.11

℄ = 0.3287

Sta 262+90.30 57.32 BM. For R.P. Hut.

72.88 HI
9.76
63.12 TP
3.08
66.20 HI
10.0
56.20 TP.
2.67
58.87 HI
6.22
52.65 TP.
8.77
61.42 HI

55.97 HI.
1.63
54.34 TP.
6.54
60.93 HI

3.1	62.41	61.63	60.84	60.05	59.26	58.48	
63.1	3.79	4.57	5.36	6.15	6.94	7.72	
63.2	2.29	4.3	4.84	5.7	8.3	11.7	
-0.1	+1.5	+0.2	+0.5	+0.45	-1.4	-4.0	
56.00	57.74	58.58	59.42	60.26	61.10	61.94	62.78
9.30	8.46	7.62	6.78	5.94	5.10	4.26	3.42
13.8	11.72	8.3	5.7				
-4.5	-3.3	-0.7	+1.1	+1.1	+0.7	+2.0	+0.3
63.62	64.62	63.78	62.94	62.10	61.26	60.42	59.58
2.58	8.58	2.42	3.26	4.40	4.94	5.78	6.62
2.68	0.68	2.2	3.6				
-0.1	+0.9	+0.2	-0.4	+0.4	+1.2	+0.93	-0.5
58.74	57.90	8.88	56.66	55.62	54.81	54.00	53.70
7.46	8.20	57.32	9.54	3.25	4.97	4.87	5.17
9.16	10.5			2.1	3.8	5.37	7.1
-1.7	-2.3		-0.5	+1.1	+0.3	-0.5	-1.9
53.40	53.10	52.80	52.50	52.20	53.20	52.84	53.18
5.47	5.77	6.07	6.37	6.67	2.67	3.1	2.8
8.7	9.57	9.53	9.1	6.3	4.0		
-3.2	-3.8	-3.4	-2.7	+0.4	-1.3		
53.32	53.04	53.23	53.46	53.6	53.42	53.61	53.73
2.65	2.9	2.7	2.5	2.4	2.55	2.36	2.2

53.86 / 2.1 — 53.81 / 2.16

BM 57.32 ✓
3.05
60.37 HI

4.81 / 1.16 — 54.00 / 1.97 — 3.6 / 57.29 — 57.49 / 12.88 — 65.04 / 7.91 — 64.62 / 8.23 — 64.20 / 8.75

72.95 HI
57.32
7.01
64.33 HI

57.90	58.32	58.74	59.16	59.58	60.00	60.42	60.84	61.26
6.43	6.01	5.59	5.17	4.75	4.33	3.91	3.49	3.07
61.68	62.10	62.52	62.94	63.36	63.78	64.20		
2.65	2.23	1.81	1.39	0.97	0.55	1.13		

57.32
5.72
63.04 HI

56.90 / 6.15 — 54.09 / 8.95 — 53.11 / 6.94

57.72
2.33
60.05 HI

+50	+1.1	52.05	52.85	[illegible]	+1.2
269	+2.9	53.?6	52.69	[illegible]	+2.9
+47 67 PC	+4.1	53.08	52.53	52.03	+4.5
		52.99		51.99	
+75	+5.7	52.94	52.44	51.94	+5.3
		52.90		51.90	
270	+6.2	52.86	252.36	51.86	+5.7
		52.81		51.73	
+25	+7.?	52.70	252.00	51.50	+6.?
		52.58		51.20	
+50	+8.9	52.30	251.30	50.80	+7.?
		51.89		50.36	
+75	+10.9	51.32	250.32	49.82	+9.0
		50.69		49.21	
271	+10.6	249.90	249.0	48.50	+1?.0
		48.69		47.49	
+339 E.C.	+10.?	247.47	246.97	246.47	+10.7
272	+3.2	243.09	243.0	243.09	+12.0
+50	-2.2		240.0		+12.0
273	-6.0		237.0		+2.8
+50	-10.3		234.0		-4.1
274	-4.0		231.0		-9.3
+50	-1.8		228.0		-8.6
275	-1.3		225.0		-1.9
+50	-1.1		222.0		-3.2
276	-1.0	219.09	219.0	219.09	-4.0

BM 57.72 - Sta 269+47 67 - Far R.P. Hub
56.82 - Sta 271+33 9 Far R.P. Hub.

61.42 HI
222.75 HI
0.45
222.30 TP
11.67
233.97 HI
.48
233.49 TP
244.89 HI
0.15
244.74 TP
11.69
256.43 HI
0.48
255.95 TP
7.66
263.61 HI
9.71
253.90 TP
2.07
255.97 HI
47.49
4.01
51.50 HI
56.82
0.39
57.21 HI
6.83
50.38 TP
3.83
54.21 HI

51.90 / 9.52 / 7.47 / +2.05 — 51.32 / 10.20 / 6.1 / +4.1 — 51.56 / 10.86 / 4.7 / +6.16 — 52.06 / 9.36 / 4.0 / +5.4 — 36 / 57.78 — 51.98 / 9.44 / 5.3 / +4.1 — 51.90 / 9.52 / 5.2 / +2.3

19.0/3.75 — 22.0/0.75 — 25.00/9.0 — 28.0/6.0 — 31.0/3.0 — 34.0/0.0 — 22.70/7.9 — 40.0/4.9 — 40.0/16.2

43.0/13.4 — 46.22/11.40 — 47.72/15.9 — 49.75/13.86 — 48.25/15.36 — 49.57/14.0 — 51.07/12.5

6.79/56.82 — 60.55/13.0 — 52.05/11.5 — 52.75/10.86 — 51.25/12.06 — 51.61/12.00 — 63.11/10.5 — 53.19/10.4

51.69/11.9 — 51.78/11.83 — 53.28/10.33 — 5.84/57.72 — 52.20/11.4 — 53.16/10.45 — 53.05/10.6 — 52.65/11.0

60.05 HI — 52.02/8.02 — 52.03/6.05 — 51.99/6.09 — 1.94/6.14 — 1.90/6.18 — 1.86/6.22 — 1.73/6.35 — 1.50/6.58

56.82
1.26
58.08 HI
9.58
48.50 TP
7.22
55.72 HI

1.20/6.88 — 0.80/7.28 — 0.31/7.72 — 49.82/8.26 — 49.21/8.87 — 52.70/5.38 — 48.50/9.58
47.49/10.59 — 47.49/8.23 — 46.47/9.25 — 43.3?/12.38 — 47.72/8.00 — 50.12/5.60 — 51.70/4.02 — 52.68/3.04
53.0?/2.72 — 53.11/2.61 — 53.19/2.53 — 43.09/8.41

53.03/4.18 — 52.99/4.22 — 52.94/4.27 — 52.90/4.31 — 52.86/4.35 — 52.81/4.40 — 52.70/4.51 — 52.58/4.63 — 52.30/4.91
51.89/5.32 — 51.32/5.89 — 50.69/6.52 — 49.90/7.31 — 51.91/5.37 — 51.73/5.48 — 51.50/5.71 — 51.20/6.01 — 50.80/6.41 — 50.36/6.85
49.82/4.39 — 49.21/5.00 — 48.50/5.71 — 47.49/6.72 — 2.31/51.90 — 2.30/1.91 — 49.90/4.31 — 48.69/5.52 — 47.47/6.74

		Paring		Paring
276+50			216.0	
+76 21 PC		14.15	214.4	16.03
		13.45	13.7	14.39
277		212.75	213.0	13.75
		12.04	12.29	13.21
+25		11.42	11.67	12.74
		10.89	11.14	12.31
+50		10.44	210.69	11.94
		10.07	10.32	11.62
+75		9.78	10.03	11.35
		9.58	9.83	11.14
278		9.48	209.73	210.98
		9.42	9.67	10.85
+25		9.35	209.60	10.73
		9.29	9.54	10.60
+50		9.22	209.47	10.47
		9.16	9.41	10.35
+75		9.09	209.34	10.22
		9.00	9.25	10.06
279+05 28 EC		8.91	209.16	9.91
+50			208.93	
280			208.67	
+50			208.40	
+92 29 PC-0		8.92	208.17	207.92
281		8.91	208.09	7.84
+25		8.89	208.00	7.75
+50		8.87	207.87	7.62
+75		8.73	207.73	7.48

BM 211.19 E.R.P. Hub Sta 280+92 29

211.16 BM. P.I. Sta 278+00

214.64 HI / 6.26 / 208.38 T.P. / 7.08 / 215.46

7.37/7.27 8.37/6.27 8.67/5.97 7.67/6.97 4.28/1.18

209.50/5.9 10.50/4.9 10.23/5.21 9.23/6.21 8.97/6.47 9.97/5.47 9.66/5.78 8.66/6.78

211.16 / 4.28 / 215.44 HI / 4.25 / 211.19

8.93/6.51 8.67/6.77 8.40/7.0 13.5/9.2 [illegible]/10.25 13.9/8.8 14.9/7.8

211.16 / 5.81 / 16.97 HI

210.50/6.47 209.50/7.47 10.10/6.87 11.10/5.87 12.50/4.47 12.15/4.82

211.16 / 11.59 / 222.75 HI

7.62/3.42 8.50/4.59 8.37/4.72 8.23/4.86 14.90/6.03 19.09/1.64 12.17/1.66

9.77 / 211.16 / 220.93 HI 47.49

14.90/1.62 14.20/2.32 13.50/3.02 15.03/1.49 14.49/03 14.15/2.37

211.19 BM / 1.90 / 213.09 HI

9.10/4.73 13.45/3.07 12.75/3.77 12.04/4.48 11.12/5.10 10.89/5.63 10.44/6.08 10.07/6.45

211.16 / 2.67 / 13.83 HI

14.89/2.13 13.75/2.77 13.21/3.31 12.74/3.78 12.31/4.21 11.94/4.58 11.62/4.90 11.35/5.17

211.16 / 5.36 / 216.52 HI

11.14/5.38 10.98/5.54 10.85/5.67 10.73/4.48 10.60/4.61 10.47/4.74 10.35/4.86 10.22/4.99 10.06/5.15 9.91/3.20

9.00/6.21 9.09/6.12 9.16/6.05 9.22/5.99 9.29/5.92 9.35/5.86 9.42/5.79 9.48/5.73 9.58/5.63 9.78/5.43

11.16 / 4.05 / 15.21 HI / 13.20 HI

7.48/5.72 8.73/4.47 8.87/4.33 7.62/5.58 7.75/5.45 9.00/4.20 8.88/4.32 8.91/4.29 7.84/5.36 7.92/5.28

14.39/2.29 11.94/7.74

1.65 / 15.03 / 16.68 HI

7.92/4.58 7.84/4.66 7.75/4.75 7.62/4.88 7.48/5.02 8.92/4.03 8.89/4.06 8.87/4.08 8.73/4.22

211.19 / 1.31 / 12.50 HI

211.19 / 1.76 / 12.95 HI

202.25 BM. E. R.P. Hub. Sta 287+71.77

210.16 BM. E. R.P. Hub. Sta 282+99.11

		Paving		Paving	
282		208.60	207.60	207.35	
+25		8.46	207.46	7.21	
+50		8.33	207.33	7.08	
+75		8.07	207.20	6.95	
+99.11	E.C.	207.82	207.07	206.82	
283+50	+07		206.80		+3.0
284	-03		206.53		+2.0
+50	-07	6.36 6.17	206.27	6.36 6.17	+1.0
285	-04	5.90 5.54	206.00	5.90 5.54	+1.0
+50	+05	5.09	205.00	5.09	+2.8
286	+07		204.00	204.59 204.09	+1.1
+50	+10		203.00	203.59 203.09	+1.1
287	+09	202.00	202.00 201.91	202.09 201.75	+1.1
+50			200.33	200.42	
+71.77	P.C. +1.0	99.31	199.61	99.91	+0.5
288	+1.0	98.37 97.54	198.67	98.97 8.1 Hr	+1.1
+50	+08	96.70 96.86	197.00	97.30 96.46	+1.0
289	+07	95.03 94.20	195.33	95.63 94.80	+0.7
+50	+1.6	93.37	193.67	93.97	+0.5
		9x53	9x83	93.11	

200.09 HI 632	93.97 1.1	93.37 6.7	95.03 5.1	95.62 4.5	97.3 2.8	96.7 3.4	98.37 1.72		
199.77 TP 10.62									
210.39 HI 3.47	98.97 11.42	99.91 10.48	8.14 202.25	99.31 11.08	202.0 8.4	202.0 7.4	201 6.4		
206.92 TP 7.72	205.0 5.4	206 4.1	206.27 4.12	6.53 8.1	6.80 7.8	7.07 7.5	6.48 210.16	6.57 8.07	
214.64 HI	6.83 7.81	7.83 6.81	8.10 6.6	7.10 7.5	100.06 2.33	99.46 3.17	98.22 4.17	99.12 3.27	+1.5
202.25 0.14									
202.39 HI	97.45 4.94	96.55 5.84	9488 7.51	95.78 6.61	94.12 8.27	93.22 9.17	6.80 6.80		
213.09 HI	4.99	7.96 5.12	7.83 5.26	7.70 5.39	7.57 5.52				
10.16 3.04									
13.20 HI	7.12 5.38	8.07 5.13	6.95 6.25	8.07 5.13	8.33 4.87	7.09 6.12	7.21 5.97	7.44 5.74	8.60 4.60	7.35 5.85
	7.90 0.03	99.97 7.82	99.31 8.42	2.09 5.64	6.82 6.50	6.36 6.96	6.17 7.15	5.74 7.58	5.14 8.18	5.09 8.23
202.25 BM 548	99.91 0.85		98.97 1.79	98.37 2.39	96.70 4.06	97.30 3.46	95.63 5.13	95.03 5.73	93.27 7.49	93.97 6.79
207.73 HI	200.76 HI									
10.16 BM 3.42	12.95 HI	7.35 5.15	7.21 5.29	7.08 5.42	6.95 5.55	6.82 5.68	8.60 4.35	8.41 4.49	8.36 4.54	
13.32 HI		8.07 4.88	7.82 5.13							
1.50 HI										
202.25 BM 99	99.91 3.33	8.37 4.87	8.14 5.10	96.70 6.54	96.46 6.78	95.03 8.21	94.80 8.44	93.37 9.87	93.11 10.13	
3.24 HI										

290 +00	+29	191.37	91.67 ~~192.00~~	191.97	+0.5
		90.12	90.42	90.72	
+50	+37	188.70	189.0	189.30	+1.9
		87.20		87.80	
291	+4.0	185.70	186.0	186.30	+2.2
		84.20		84.80	
+50	+5.0	182.70	183.0	183.30	+2.5
		81.20		81.80	
292	+6.6	179.70	180.0	180.30	+2.9
+26.72	E.C. +6.5	178.10	178.4	178.70	+2.6
+50	+6.8	176.65	177.0	177.33	+2.6
293	+8.4	173.57	174.0		+1.7
+44.13	P.C. +8.2	170.85	172.0 171.35	171.52	-1.1
		69.92		70.59	
+75		169.00	169.5	169.67	
294	+9.5	167.5	168.0	168.17	-3.1
+25		166.0	166.5	166.67	
+50	+11.1	164.5	165.0	165.17	+0.7
+75		163.0	163.5	163.67	
295	+12.9	161.5	162.0	162.17	+0.9
+25		160.0	160.5	160.54	
+64.04	E.C. +12.0	158.83 / 157.66	158.16	159.27 / 158.00	-1.1
296			156.0		

Lowered on acct of increase in grade

161.54 BM Near R.P. Hub 296+14.23 181.86 Near R.P. Hub Sta 292+26.72

175.91 BM Near R.P. Hub 293+44.13

169.06 HI
2.63
166.43 TP
11.87
178.30 HI
6.18
178.12 TP
11.23
189.35 HI
0.81
188.54 TP
11.55
200.09 HI
202.39 HI
11.75
190.64 TP
191.08 HI
161.54
9.07
170.61 HI
1.89
168.72 TP
9.07
177.79 HI
1.88
75.91
11.90
64.50 TP
64.67 HI
3.15
61.52
203.24 HI
11.87
191.37 TP
91.57 HI
12.00
79.57 TP
64
80.21 HI

157.66 / 11.4 58.66 / 10.40 7.52 / 161.54 162.5 / 6.56 165.5 / 3.56

157.62 / 20.64 161.5 / 16.8 164.5 / 13.8 167.5 / 10.8 168.5 / 9.8 171.85 / 6.45 6.50 / 171.80

74.42 / 3.88 170.85 / 18.50 73.57 / 15.78 76.65 / 12.70 77.33 / 12.0 7.49 / 81.86

78.7 / 10.7 78.1 / 11.2 179.7 / 9.7 180.3 / 9.0 83.3 / 6.0 82.7 / 6.6 85.7 / 14.4 86.3 / 13.8

91.55 / 10.84 92.45 / 9.94 89.45 / 12.94 88.55 / 13.84

89.3 / 10.8 88.7 / 11.4 91.7 / 8.4 92.3 / 7.8 7.6 / +3.2

86.45 / 4.63 85.55 / 5.53 82.55 / 8.53 83.45 / 7.63 80.45 / 10.63 79.55 / 11.53 77.95 / 13.13 78.85 / 12.23

57.41 / 13.20 / 8.45 / +4.75 59.75 / 10.86 61.25 / 9.36 62.75 / 7.86 64.25 / 6.36 65.75 / 4.86 67.25 / 19.54

68.75 / 9.04 70.60 / 7.19 91.97 / 8.79 91.87 / 9.29 88.70 / 12.06 89.30 / 11.46

200.76 HI
11.46
89.30 / 47
89.77 HI
175.91
1.49
76.60 HI

86.30 / 3.47 85.70 / 4.07 82.70 / 7.07 83.30 / 6.47 80.30 / 9.47 79.70 / 10.07 78.10 / 11.67 78.70 / 11.07

71.85 / 4.55 67.50 / 8.90 65.50 / 10.90 845 / 68.95 76.0 / 71.80 71.52 / 4.88 70.85 / 5.55

67.50 / 8.90 68.17 / 8.23 65.17 / 11.23 64.50 / 11.90 61.50 / 3.17 62.17 / 2.50 58.00 / 6.67 57.66 / 7.01

91.27 / 11.87 90.12 / 1.45 89.30 / 2.27 87.20 / 4.37 86.30 / 5.27 84.20 / 7.37 83.30 / 8.27 81.20 / 10.37 80.30 / 11.27

78.70 / 12.87
75.91 BM
27
76.18 HI
11.01
65.17 TP
47
65.64 HI

71.52 / 4.66 70.85 / 5.33 69.92 / 6.26 70.59 / 5.59 69.67 / 6.51 69.00 / 7.18 67.50 / 8.68 68.17 / 8.01

61.67 / 9.51 66.00 / 10.18 64.50 / 11.68 63.67 / 1.94 63.00 / 2.64 61.50 / 4.14 62.17 / 3.47 60.54 / 5.10

60.00 / 5.64 58.83 / 6.81 59.27 / 6.37 58.00 / 7.64 57.66 / 7.98

296+14.83 PC.	+5.2	156.00	155.11	55.00	Raised mound & increase in grade −8.8
+25		55.39	154.5	54.39	
+50	−6.6	53.89	153.0	52.89	−11.7
+75		52.39	151.5	51.39	
297	+11.0	50.89	150.0	49.89	+2.2
+25	+11.8	49.39	148.5	48.39	+2.3
		48.27		47.27	
+62.4 EC	+9.2	47.16	146.87	46.16	+1.5
298	+7.9		144.0		+0.2
+50	+7.2	41.09	141.0	41.09	+1.4
299	+8.8		138.0		+3.3
+50	+9.9		135.0		+5.2
300	+8.9		132.0		+4.4
+50	+7.2		129.0		+1.9
301	+7.5		126.0		+1.6
+50	+3.9		123.0		+0.4
302	+4.7	120.09	120.0	120.09	−0.4
+50	+5.9		117.0		−0.9
303+01.68 PC	+6.6	113.4	113.9	114.4	−1.8

124.98 T.P. Sta 300 approx.

161.54 BM. new R.P. Hub Sta 296+14.83 PC.

157.32 / 0.39 / 157.71 HI

144.0 / 13.71

45.77 / 11.94

48.00 / 9.71

49.5 / 8.2

52.50 / 5.21

54.61 / 3.16

53.5 / 4.2

57.32 / 11.7 / 169.06 HI / 161.54 BM

149.0 / 20.1

150.5 / 18.6

55.61 / 3.45

55.86 / 5.68

53.75 / 7.79

7.8 / 1.6

52.25 / 9.29

50.75 / 10.80

54.31 / 7.18

149.25 / 12.29

47.00 / 14.5

145.59 / 16.0

47.75 / 13.79

49.25 / 12.29

50.75 / 10.79

52.25 / 9.29

161.54 HI

161.54 / 92 / 67.46 HI / 11.57 / 50.89 TP / 1.91 / 52.87 HI / 17.93 / 24.10 HI

55.0 / 7.46

55.39 / 7.07

57.89 / 9.57

57.39 / 10.07

50.89 / 11.57

49.89 / 2.98

48.39 / 4.48

8.77 / 4.60

6.16 / 6.71

13.40 / 1.070

9.70 / 20.09

41.09 / 6.42

5.5.99 HI

55.39 / 0.58

57.89 / 3.08

57.39 / 3.58

49.89 / 6.18

49.39 / 7.68

48.27 / 9.72

46.16 / 46.16 / 9.83

42.33 HI

		L		R	
303+01.68 PC	+4.4	113.4	113.9	114.4	-1.6
+25		12.00	112.5	13.00	
+50	+4.4	110.5	111.00	111.5	+1.3
+75		9.00	109.5	10.00	
304	+8.4	107.5	108.00	108.5	+1.6
+25		6.00	106.5	7.00	
+50	+6.9	104.5	105.00	105.5	+0.4
+75		3.00	103.5	4.00	
		2.00	102.5	3.00	
305+08.33 EC	+5.4 100.75	101.0	101.5	102.0	100.75 -2.4
+50	-0.7		99.00		-4.2
306		96.08	96.00	96.08	
+50			93.00		
307	-3.1		90.00		-1.78
+50	+4.0		87.00	87.09	-2.0
			85.54	85.63	
308	Slope +6.6		84.15	84.24	+1.8 Slope
+08.93 End berm.			82.84	82.93	
+25 +50	+5.6		81.6	81.69	+2.3
				80.49	
309	+3.0	Stakes set to sub grade West	79.2	79.29	-0.9
				78.09	
+50	+5.4	4.83	76.8	76.89	+2.2
				75.69	
310	+5.5		74.4	74.49	+1.9

106.45 B.M. N. R.P. Hub Sta 305+08.33

121.93 B.M. N. R.P. Hub Sta 303+01.68

81.67
2.58
79.09 T.P.
11.50
90.59 H.I.
0.36
90.23 T.P.
11.52
101.75 H.I.
1.23
100.52 T.P.
11.84
112.36 H.I.
.20
112.16 T.P.
12.02
124.18 H.I.
106.45 B.M.
6.49
112.94 H.I.
.94
12.00
4.83
16.83 H.I.
87.09
1.38
88.47 H.I.
106.45
6.58
113.03 H.I.
0.02
113.01 T.P.
4.46
117.47 H.I.

7.44 / 16.19	76.8 / 13.8	79.2 / 11.4	81.6 / 9.0	84.00 / 6.6		
87.00 / 14.75	99.00 / 2.75	101.00 / 1.36	5.91 / 96.45	104.5 / 7.86	105.50 / 6.56	8.50 / 3.86
2.23 / 121.93	21.94 / 78 / 41.3	1.00 / 11.94	3.00 / 9.94	5.50 / 7.44	6.00 / 6.94	8.50 / 4.44 · 9.00 / 3.94
121.93 / 0.24 / 122.17 / 13.32 / 108.85 / 1.01 / 109.86 / 12.90 / 96.96 / 1.12 / 97.08 / 12.95 / 109.03	11.34 / 8.77 · 11.05 / 11.67 · 10.75 / 2.36 · 10.45 / 5.86 · 96 / 1.08 · 93 / 4.08 · 90 / 7.08 · 5.46	11.50 / 1.44 · 101 / 8.86 · 99 / 10.86 · 87 / 10.08 · 96.08 / .48 / 96.56 H.I.	12.00 / 0.94	13.00 / 3.83 · 87.09 / 9.47	14.4 / 2.43 · 79.79 / 9.18	74.49 / 13.98
106.45 / 0.01 / 106.46 H.I.	96.08 / 10.38 · 85.63 / 2.84	84.69 / 6.78	81.27 / 7.20	85.63 / 2.84	84.24 / 4.23	82.93 / 5.54 / 5.96
87.09 / .71 / 87.80 H.I. / 11.34 / 76.46 T.P. / .78 / 77.24 H.I.	82.51 / 5.29 · 75.69 / 1.65 / .42 / 1.97	81.27 / 6.53 · 74.49 / 2.75 / 3.17	80.07 / 7.73 · 3.42 / 3.60 / 7.02	79.29 / 8.51 / 8.93	78.09 / 9.71 / 10.13	76.89 / 10.91 / 11.33 · 3.72
1.00 / 12.03 · 2.00 / 11.03	4.00 / 9.03	5.50 / 7.53	7.00 / 6.03 · 8.50 / 4.53	10.00 / 3.03	11.50 / 1.53	11.00 / 1.03 · 14.4 / 3.07

BM 55.42 N.R.P Hub Sta 3144+19.28 PC

BM 47.19 E R.P. Nail Sta 3144+89.88 EC (78.65 - Nail in fence 25'W of line Sta 3104+00)

310 +50			72.0	72.09	+0.4
311	+2.2		69.6	69.69	-1.0
+50	+5.3		67.2	67.29	+3.7
312	+6.0		64.8	64.89	+4.2
+50		62.49	62.4	62.49	
313		61.26 / 59.98 / 58.66	60.00	61.24 / 59.88 / 58.42	
+50		57.27	57.00	56.85	
314		54.44	54.00	53.61	
314 +19.28 PC		53.31	52.81	52.31	
		52.65	51.96	51.27	
C 41.73		51.74	50.99	50.24	
		50.58	49.89	49.20	
314 +89.88 EC		49.17	48.67	48.17	
315			48.00		
+50			45.0		
316		42.09	42.0	42.09	
+50			40.5	40.59	
			39.0	39.09	
317			37.50	37.59	
			36.00	36.09	
+25					

+25			34.60	34.69	
317+50			33.60	33.69	
+75			32.64	32.73	
318		32.09	32.00	32.09	
			31.35	31.44	
+50			30.71	30.80	
			30.06	30.15	
319			29.42	29.51	
+50			28.77	28.86	
			28.13		
320			26.85		
+50			25.56		
321	+6.2		24.28		+6.5
+50	+7.2	2.57%	23.00		+7.5
322	+8.4		21.71		+8.1
+25		21.15	21.06		
+50	+9.1		20.42		+8.9
323	+7.5		19.14		+7.5
+50	+4.4		17.85		+4.5
324	+1.3		16.57		+0.8
+50	-1.2	15.37	15.28		-1.6
325	-2.3	14.80	14.71		
		14.36	14.00 +27	V.C. 50 Tan	-2.0
+50		14.07	13.98		
		13.92	13.83		
326	-4.7		13.67		
+50		0.33%	13.50		

BM 322+27 - Mon SE PL 299 - Elev 29.70 OK
B.M. 317+61.48 - SE - 298 - 33.75

10.96 ... 8.62 ... 32.34 TP ... 36.52 HI ... 6.25 ... 30.27 TP ... 1.50 ... 31.77 HI ... 12.02 ... 19.75 TP ... 31.47 HI ... 11.30 ... 20.17 TP ... 10.45 ... 4.45 ... 15.16 HI

34.00 / 6.96 — 32.00 / 8.96 — 30.71 / 10.25 — 30.71 / 5.81 — 29.42 / 7.10 — 28.13 / 8.39 — 26.85 / 9.67

25.56 / 10.96 — 24.28 / 12.24 — 23.00 / 13.52 — 23.00 / 8.77 — 21.71 / 10.06 — 20.42 / 11.35 — 19.14 / 12.63 — 17.85 / 13.92

16.57 / 5.34 — 15.28 / 6.63 — 14.00 / 7.91 — 14.00 / 0.73 — 13.83 / 1.33 — 13.67 / 1.49

29.70 / 5 / 30.20 HI

16.57 / 2.90 — 15.28 / 4.19 — 14.00 / 5.47 — 13.83 / 6.62 — 13.67 / 5.60 — 13.50 / 5.97 — 34.20 / 2.37 — 32.20 / 4.37 — 34.0 / 2.57

29.70 / 30.10 HI — 36.57 HI / 9.51 — 32.00 / 4.57 — 30.91 / 5.66 — 30.71 / 5.86 — 29.62 / 6.95 — 28.33 / 8.24 — 27.05 / 9.52 — 25.76 / 2.86

27.06 TP — 28.62 HI — 24.48 / 4.14 — 23.20 / 5.42 — 21.91 / 6.71 — 20.62 / 8.00 — 19.34 / 9.28 — 18.05 / 10.57 — 16.77

19.47 HI — 29.70 BM / 0.85 / 30.55 HI — 23.20 / 5.42 — 21.91 / 6.71 — 20.62 / 8.00 — 19.34 / 9.28 — 18.05 / 10.57 — 16.57 / 12.05

21.15 / 9.40 — 32.3 / 33.93 — 32.20 / 37.18 HI — 32.09 / 5.09 — 29.77 TP / 7.39 / 37.16 HI

55.42 BM on PC — 32 / 2.68 — 20.41 / 3.37 — 24.82 / 5.46 — 28.13 / 6.55 — 26.85 / 7.93 — 25.56 / 9.12 — 24.28 / 10.40 — 23 / 11.68 — 21.71 / 12.97

14.09 / 4.44 — 14.36 / 4.17 — 14.80 / 3.73 — 15.37 / 3.16 — 14.07 / 4.46 — 13.92 / 4.61

32.09 / 5.40 — 31.44 / 6.05 — 30.80 / 6.69 — 30.15 / 7.34 — 29.51 / 7.98 — 28.86 / 8.63 — 32.73 / 4.76 — 33.69 / 3.80 — 34.69 / 2.80 — 36.09 / 1.40

18.53 HI — 13.92 / 4.91 — 14.07 / 4.76 — 14.36 / 4.47 — 14.80 / 4.03 — 20.51 / 10.26

37.49 HI — 29.70 / 1.07 / 30.77 HI

18.83 HI

327			13.33	
+50			13.17	
328	-5.1	13.09	13.00	-4.0
		13.16	13.07	
+50		13.24	13.15	
		13.31	13.22	
329		13.38	13.29	
		13.46	13.37	
+50		13.53	13.44	
		13.61	13.52	
330		13.68	13.59	
		13.75	13.66	
+50		13.83	13.74	
		13.90	13.81	
331		13.98	13.89	1398
+25 +45 27		14.05	13.96 14.00	
331 +20.6		14.04		
330 +91.85		13.95		

8.22 Bm mon NE PL 300 Sta 326+92.5

15.16 HI — 13.33 / 1.83 — 13.17 / 2.00 — 13.00 / 2.16 — 13.15 / 2.00 — 13.44 / 1.72

13.50 / 4.45 / 17.95 HI — 13.29 / 1.87 — 13.44 / 1.72 — 13.59 / 1.57 — 13.74 / 1.42 — 13.88 / 1.28 — 1344 / 451 — 13.59 / 436

13.32 / 462 — 4.73 / 8.22 — 13.17 / 4.78 — 13.00 / 495 — 13.15 / 480 — 1329 / 466 — 1374 / 421 — 1388 / 407

1760 — 1333 / 427 — 1317 / 443 — 13 / 4.60 — 1316 / 446 — 1329 / 431 — 1344 / 416 — 1359 / 401 — 1374 / 386 — 1388 / 372

9.33 / 8.22 / 17.55 HI — 13.09 / 446 — 13.16 / 439 — 13.24 / 431 — 13.31 / 424 — 13.38 / 417 — 1346 / 409 — 13.53 / 439 — 1361 / 421 — 1368 / 424 — 1375 / 417 — 1383 / 409

409 / 13.46 TP — 13.90 / 402 — 398 / 3.94 — 14.05 / 387 — 14.08 / 384 — 14.04 / 388 — 1369 / 4.58 — 13.98 / 369

1061

.446 / 17.92 HI

9.45 / 8.22 / ~~17.67~~ HI — 4.94 / 1390 / 18.84 HI — 14.04 / 480 — 13.95 / 489 — 4.91

253+50 should be culv.

Culverts lin ft

8"	12"	16"	24"
36	40	55	102
38	40	52	
40	46		
39	57		
36	40		
37			
226	223	107	102

Add 329 sq ft pavement for returns at junctions with dyke road.

Culverts: Lindo Vista Road

247

	Sta	Size		Length
✓	330+81	16"	✓	52'
✓	306 ~~326+50~~	24"	✓	~~40.5~~ toe to toe 102' of pipe if wing walls are used.
✓	296+50	16"	✓	55' ~~57.2~~ toe to toe ~~52~~ of pipe with wing walls.
✓	188+04	12"	✓	57'
✓	165+32	12"	✓	40'
✓	142+81	12"	✓	46'
✓	129+50	8"	✓	37' outlet closed
✓	130+15	12"	✓	40'
✓	113+00	12"	✓	40'
✓	182+00	8"	✓	36'
✓	241+50	8"	✓	~~40'~~ 39
160±		8"	✓	40'
205+50		8"	✓	38
227 ±	115' S of SL Olivet overhead	8"	✓	36" outlet closed
~~306 ±~~		~~24"~~		~~102'~~

Lin ft. culverts Dec 1

8"	12"	16"	24"
37	40		
40	40		
36	46		
38	40		
36	57		
39			
226	223	0	0

Lin ft. culverts. Dec 2

8"	12"	16"	24"
		55	107
		52	
0	0	107	107

Cross Section of Imperial Ave. 32d to City Limits

8.38 75.41 67.03 N.W 32d M. P.B.M.

W.L. 32d 54

No	8.0	67.4
Ct.	8.4	67.0
Gutr. Paving	9.08	66.33
¼ "	8.60	66.8
1.7 No ℄ No. rail	8.55	66.86
C	8.4	67.0
¼ Paving	8.46	66.95
Gutr "	9.0	66.4
Ct.	8.4	67.0
So	2.2	73.2
W. Ctr.		
So	3.1	72.3
29' So ℄	4.4	71.0
So Ct	8.7	66.7
¼	8.5	66.9
C	8.8	66.6
+0.5: Top No rail.	8.73	66.67
No ¼	8.7	66.7
Ct.	9.0	66.0
No	8.4	67.0
W ¼		
No.	8.4	67.0
Ct.	8.5	66.9
¼	8.6	66.8
C	8.9	66.5
+0.5 : Top No. rail.	8.95	66.45
¼	8.9	66.5
24.5' So Ctr.	9.5	65.9
Ct.	8.1	67.3
31' So Ctr	2.3	73.1
So	2.1	73.3
℄ 32d		
So	1.6	73.5
32' S. ℄	1.6	73.5
Ct.	8.3	67.1
48' So ℄	9.8	65.6

75.41

℄ 3rd

So ¼	9.2	66.2
1.2' So ℄ Top No rail	9.23	66.17
C	9.2	66.2
½	8.7	66.7
Cl	8.3	67.1
No	8.0	67.4

E ½

No	8.3	67.1
Cl	8.9	66.5
¼	9.1	66.3
C	9.6	65.8
1.75 So ℄ Top No rail	9.66	65.8
½	9.5	65.9
24' So ℄	10.1	65.3
Cl	8.5	66.9
51' So ℄	1.1	74.0
So	10	74.4

E Ch. 3rd

So	1.1	74.3
31' So ℄	1.1	74.3
Cl	7.1	68.0
23' So ℄	10.5	64.9
¼	9.8	65.6
2.05 So ℄ Top No rail	10.00	65.0
C	10.1	65.3
¼	10.0	65.0
Cl	9.3	66.1
No	8.6	66.8

7' E of Cl

No	8.3	67.1
Cl	9.1	66.0

E L. 3rd ✗/

No	6.3	69.1
Cl	8.7	66.7
¼	11.0	64.47
C	10.6	64.8
2.1 So ℄ Top No rail	10.53	64.87

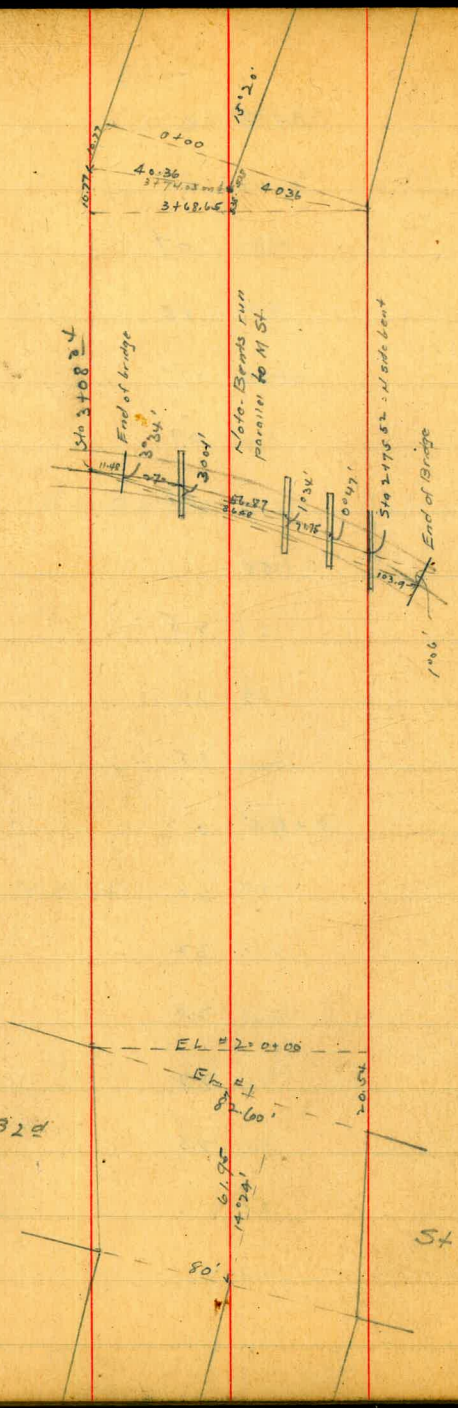
75.41

E.L. 32nd St. #1

So. ℄	10.4	65.0	
20.5' So. ℄	10.7	64.7	
Ch.	4.0	71.4	
30' So. ℄	1.4	74.0	
So.	1.1	74.3	
E.L. 32nd St. = 0+00			
So.	1.0	74.4	
Ch.	1.2	74.2	
22' So. ℄	2.5	72.9	
18' So. ℄	11.2	64.2	
℄	11.2	64.2	
2.2' So. ℄: Top No. rail	11.12	64.28	
℄	11.2	64.2	
℄	11.2	64.2	
15' No. ℄	10.8	64.6	
Ch.	0.5	74.9	
33' N. CL.	1.8	73.6	
No.	6.3	69.1	

0+30

No.	0.4	75.0	
Ch.	0.7	74.7	
3' So. of Ch.	1.5	73.9	
0+25			
No.	0.9	74.5	
Ch.	1.4	74.0	
0+50			
No.	4.5	72.9	
+13	1.0	74.4	
Ch.	1.5	73.9	
0+65			
No.	6.0	69.4	
+7	3.2	72.2	
+9	2.0	72.4	
Ch.	2.2	73.2	
+1	2.5	72.9	



		75.41		
		0+75		
N.			6.3	69.1
+9			6.0	69.4
Ch.			4.4	71.1
+2			5.0	70.4
T.P.	0.26	66.68	8.99	66.42
		1+00		
N.			4.3	62.4
Ch.			0.6	66.1
+2			0.4	66.3
+5			1.2	65.5
		1+12		
N.			7.8	58.9
Ch.			3.4	63.3
+2			3.0	63.7
+5			3.0	63.7
		1+25		
N.			8.4	57.3
+9			9.0	57.7
Ch.			6.5	60.2
+4			5.2	61.5
+7			5.4	61.0

66.68

1+50		
No	5.2	61.5
+10	10.8	55.9
Cr.	11.0	55.7
+2	10.5	56.2
+5	8.8	57.9
+9	9.1	57.6
1+55		
No	5.1	61.6
+7	11.3	55.4
Cr.	11.3	55.4
1+75		
No	6.4	60.3
+5	6.9	59.8
Cr.	12.2	54.5
+5	12.5	54.2
+9	11.5	55.2

2+00		
No.	7.6	58.1
+7	9.1	57.6
Cr.	13.4	53.3
+2	14.3	52.4
+10	14.6	52.1
2+25		
No	8.4	58.3
Cr	12.3	54.4
+10	15.8	50.9
2+50		
No	8.4	58.3
Cr.	14.3	52.4
+8	15.1	51.6
2+75		
No.	4.8	61.9
+11	9.7	57.0
Cr.	11.7	55.0
+9	15.5	51.2

66.68

2+92

No		3.7	68.0
+9		5.7	61.0
Ch		8.0	58.7
+8		10.7	56.0

3+00

No		7.4	59.3
+8		8.3	58.4
Ch		9.6	57.1
+6		10.2	56.5

3+02

No		8.3	58.4
+9		7.9	58.8
Ch		9.6	57.1
+6		10.2	56.5

3+05.2 =

W. Rail		7.26	59.44

3+10.8 =

E Rail		6.92	59.78

3+08 34 = ℄ Ry Track on No

No		7.5	59.2
+10		7.6	59.1
Ch		9.6	59.2
+8		10.5	56.2

3+25

No			8.1	58.6
Ch			8.7	58.0
+9			10.0	56.7
T.P	0.14	54.86	11.96	54.72
T.P	4.81	49.31	10.36	44.50

3+50

No		4.4	44.9
+4		4.0	45.3
Ch		5.6	43.7
+5		7.9	41.4
Ch		8.2	41.1
C		8.6	40.7
+ 39 = Top No rail		8.7	40.33
¼		8.6	40.7

49.31

3+50

S. Cr.	8.8	40.5
+2	5.6	43.7
S.	4.7	44.6

3+68.65

S.	6.8	42.5
+9	7.2	42.1
Cr	9.7	39.6
.4	9.3	40.0
5.5 S. ℄ = Top No. rail	9.14	40.26
C	9.0	40.3
½	8.8	40.5
+8	8.8	40.5
Cr.	11.1	38.2
+5	13.9	36.4
+6	11.2	38.1
No	12.3	37.0
+10	13.0	36.3

3+25

S.	2.6	46.7
+12	3.4	45.9
Cr	6.5	42.8

3+15

S.	2.2	47.1
+11	2.7	46.6

3+11

S.	2.1	47.2
+5	2.4	46.9
Cr.	6.4	42.9

3+07

Σ	4.1	45.2
Cr.	6.1	43.2

3+02

S.	3.7	45.6
+11	2.2	47.1
Cr.	6.3	43.0

		49.21		
		3+00		
So			1.8	47.5
+11			1.9	47.4
Ch.			6.0	43.3
		2+90		
So			0.4	48.9
+3			0.0	49.3
Ch.			6.0	43.3
		2+75		
So			0.9	48.4
+8			1.8	47.5
+11			4.7	44.6
T.P.	11.75	60.84 ✓	0.22	49.09
T.P.	6.13	65.24 ✓	1.73	59.11
Top	E. Rail		4.00	61.2
Top	W. Rail		4.33	60.87

		2+63		
So			15.5	49.7
+10			13.8	51.4
		2+50		
So			8.7	56.5
+12			9.6	55.6
		2+44		
So			5.2	60.0
+13			7.8	57.4
T.P.	11.89	76.58 ✓	0.56	64.69
		2+25		
So			9.6	67.0
+12			12.0	64.6
		2+00		
So			4.2	72.4
+10			6.9	69.7
Ch.			11.8	64.8

76.58

	1+75		
So		3.6	73.0
+10		6.8	69.8
Cr.		10.5	66.1
	1+50		
So		3.4	73.2
+9		4.8	71.8
Cr.		9.6	67.0
+8		13.0	63.6
	1+25		
So		3.2	73.4
+12		4.1	72.5
Cr.		6.5	70.1
	1+00		
So		3.3	73.3
+11		3.8	72.8
Cr.		5.6	71.0
+1		5.6	71.0

	0+75			
So		2.7	73.9	
+13		3.0	73.6	
Cr.		4.0	72.6	
+4		6.5	70.1	
	0+50			
So		2.0	74.6	
Cr.		1.8	74.8	
+5		6.7	69.9	
	0+25			
So		2.3	74.3	
Cr.		2.1	74.5	
+r.		2.4	74.2	
+6		6.6	70.00	
T.P	0.50	69.53	9.56	67.02 ✓ 67.03 BM N/W32
+9			5.0	62.5
4			5.0	62.5
n.i So ℄ Top No rail			4.8r	62.68
C			5.0	62.5
4			5r	62.3
+2			5.2	62.3

67.53

	0+50		
16' No ℄		7.0	60.5
½		7.1	60.4
℄		6.8	60.7
2.2' So ℄ = Top No rail		6.72	60.78
½		6.7	60.8
+5		6.8	60.7
	0+75		
18.5' So ℄		8.1	59.4
½		8.6	58.9
2.2' So ℄ = No rail		8.65	58.85
℄		8.7	58.8
½		9.0	58.5
+3		9.1	58.4
	1+00		
15' No ℄		10.5	57.0
½		10.8	56.7
℄		10.6	56.9
+2.2 No rail		10.52	56.98
½		10.7	56.8
+6		10.2	57.3

T.P.	0.24	55.92	11.85	55.68
		1+25		
20' So ℄			0.7	55.2
½			0.8	55.1
2.3' So ℄ = No rail			0.91	54.99
℄			1.0	54.9
½			1.2	54.7
+1			1.2	54.7
		1+50		
15' No ℄			3.3	52.6
½			3.2	52.7
℄			3.0	52.9
2.3 So ℄ = No rail			2.9	53.0
½			2.7	53.2
+8			3.0	52.9

55.92

1+75

22' So ℄	4.7	51.2
℄	4.6	51.3
23' So ℄ = No rail	4.90	51.0
C	5.0	50.9
℄	5.2	50.7
+2	5.2	50.7

2+00

No ℄	7.1	48.8
C	7.1	48.8
+2.3 = No rail	7.05	48.85
℄	6.6	49.3
+8	6.8	49.1

2+25

23' So ℄	9.2	46.7
℄	8.9	47.0
2.3' So ℄ = No rail	9.01	46.89
C	9.1	46.8
℄	9.1	46.8

2+50

No ℄	10.6	45.3
C	10.9	45.0
+2.3 = No rail	10.91	44.99
℄	10.7	45.2
+2℄5	10.7	45.2
So Ch.	6.7	49.1
T.P. 2.26	46.29 11.89	44.03

2+75

So Ch.	2.6	43.7
℄	2.2	44.1
2.3' So ℄ = No rail	2.86	43.44
C	2.9	43.4
+2	2.7	43.6
℄	2.0	44.3

3+00

14' No ℄	2.8	43.5
℄	3.3	43.0
+2	3.7	42.6
C	4.0	42.3
+2.5 = No rail	3.98	42.32
+9	4.0	42.3
℄	3.4	42.9

46.29

3+25

W'S &			4.6	41.7
4			4.8	41.5
2.83 So & = No rail			4.90	41.4
C			4.9	41.4
4			4.7	41.6
1 V			3.4	42.9
B.M	1.77	42.69	5.37	40.92 Spk pole So side Sta 3+68

3+74.03 on & on Dividing arg.

So			0.1	42.6
+ 10			0 3	42.4
+ 1 V			3.0	39.7
Cr.			3.0	39.7
4			2.8	39.9
6.1 So & = No rail			2.61	40.09
C			2.5	40.2
4			2.4	40.3
+4			2.1	40.6
Cr.			7.4	35.3
No			9.7	38.0
+10			10.6	32.1
+30			13.7	29.5

0+00 = Right angles to St going east

+30 No.	15.5	27.2	
+10 No.	13.3	29.4	
No.	11.9	30.8	
+8	11.0	31.7	
Cr.	7.2	35.5	
+8	2.6	40.1	
4	2.7	40.0	
C	2.7	40.0	
+5.4 = No rail	2.71	39.99	
4	2.8	39.9	
Cr.	3.1	39.6	
+1	3.1	39.6	
+4	0.4	42.3	
So	0.1	42.6	

42.69

0+25

So.		20	40.7	
+10		24	40.3	
Cl.		38	39.9	
4		37	39.0	
28	S.E. No rail	343	39.27	
C		35	39.2	
4		34	39.3	
+9		34	39.3	
Cl.		53	37.4	
No.		136	29.1	
+4		152	27.5	
+10		143	28.4	
+16		164	26.3	
+40		17.0	25.7	

0+50

+30 No.		17.5	25.2	
+5		15.9	26.8	
No.		13.5	29.2	
Cl.		4.8	37.9	
+1		43	38.4	
4		42	38.5	
C		42	38.5	
+1.3° No rail		418	38.57	
4		43	38.4	
+10		46	38.1	
Cl.		59	36.8	
So.		18.2	29.5	
+20		138	28.9	
T.P.	2.04	39.80	6.93	35.76

37.80

0+75

20' So	11.9	25.9	
So	10.8	27.0	
+6	10.2	27.6	
Cl	6.7	31.1	
+11	0.0	37.8	
4	0.0	37.8	
0.7 So 4 = No rail	0.01	37.79	
C	0.0	37.80	
4	0.1	37.79	
Cl	0.2	37.6	
No	8.6	29.2	
+5	11.7	26.1	
+30	12.0	25.8	

1+00

+30	13.0	24.8	
+5	12.9	24.9	
No	9.3	28.5	
+13	0.9	36.9	
Cl	1.0	36.8	
4	1.0	36.8	
C	0.8	37.0	
+0.4 = No. rail	0.73	37.07	
4	1.0	36.8	
Cl	9.0	28.8	
+7	11.1	26.7	
So	11.6	26.2	
+20	13.1	24.7	

37.50

1+75

+20 S.	13.4	24.4
So	12.0	25.8
+13	10.8	27.0
Ch	10.1	27.7
¼	2.1	35.7
+2	1.4	36.4
0.2 So ℄: No rail	1.43	36.37
C	1.4	36.4
½	1.6	36.2
Ch	1.8	36.0
+1	1.9	35.9
No	10.3	27.5
+4	12.6	25.2
+7: House	12.9	24.9

1+50

+30 No	14.0	23.8
+5	13.2	24.6
No	10.5	27.3
+12	2.6	35.2
Ch	2.7	35.1
¼	2.5	35.3
0.1 No ℄: No rail	2.15	35.65
C	2.2	35.6
+10	2.2	35.6
¼	3.6	34.2
Ch	11.5	26.3
+6	12.7	25.1
So	13.1	24.7
+20	14.0	23.8

37.80

14+75

+20 S.		14.3	24.5
S.		13.8	24.0
+11		13.4	24.4
Cr		12.1	25.4
4		4.5	33.3
+W		2.9	34.9
C		2.9	34.9
+0.3	No rail	2.86	34.94
4		3.3	34.5
Cr.		3.4	34.4
+3		3.4	34.4
No		11.5	26.3
+4		12.9	24.9
+30		13.9	23.9

2+00

+30		13.7	24.1
+4		13.4	24.4
No		11.5	26.3
+10		4.1	33.7
Cr.		4.1	33.7
4		4.0	33.8
0.6'	No 4 = No rail	3.61	34.22
C		3.6	34.2
+10		3.6	34.2
4		6.4	31.4
Cr.		13.0	24.8
+1		14.2	23.6
So		14.3	23.5
+20		14.3	23.5

37.80

2+25

+20			14.7	23.1
5.			14.4	23.4
+8			14.1	23.7
Ch			13.4	24.4
4			6.5	31.3
+3			4.3	33.5
C			4.3	33.5
+0.9 = No rail			4.33	33.47
4			4.8	33.0
Ch			5.0	32.8
+5			5.2	32.6
No			10.5	27.3
+5			13.2	24.6
+30			13.7	24.1
T.P.	1.58	33.15	6.73	31.57

2+50

+30 Rt.	8.6	24.6
+5	8.9	24.3
No	6.3	26.9
+8	1.4	31.8
Ch.	1.2	32.0
4	0.9	32.3
1.2 N. of = N. rail	0.48	32.72
C	0.4	32.8
+9	0.5	32.7
4	2.4	30.8
Ch	9.0	24.2
+2	9.3	23.8
So	9.9	23.3
+15	10.0	23.2

33.15

2+75

+15 S.	10.2	23.0
S.	10.0	23.2
Ch	10.0	23.2
↓	3.8	29.4
+4	1.4	31.8
C	1.3	31.9
+1.4 No rail	1.25	31.95
↓	1.6	31.6
Ch	2.0	31.2
+7	2.1	31.1
No	6.3	26.9
+5	9.2	24.0
+30	9.2	24.0

3+00

+30	9.0	24.2
+3	8.7	24.5
No	6.7	26.5
+7	2.9	30.3
Ch	2.6	30.6
↓	2.3	30.9
1.8 No ↓: No rail	2.00	31.2
C	2.0	31.2
+8	1.9	31.3
↓	4.6	28.6
Ch	10.0	23.2
S.	9.9	23.3
+15	10.0	23.2

33.15

3+25

+15	9.4	23.8
So	9.3	23.9
Ct	9.5	23.7
+8	8.2	25.0
4	5.0	28.2
+5	2.7	30.5
0	2.8	30.4
+1.9 - No. rail	2.73	30.47
4	3.0	30.2
Cb.	33	29.9
+8	35	29.7
No	77	25.5
+1	8.7	24.5
+25 = House	9.0	24.2

3+50

+30	9.2	24.2
+2	8.6	24.6
No	7.5	25.7
+6	4.1	29.1
Cr.	4.0	29.2
4	3.8	29.4
2.2 No ℄ - N. rail	3.42	29.78
C	3.4	29.8
+9	3.4	29.8
44	5.4	27.8
+5	8.3	24.9
Cr.	9.1	24.1
So	8.8	24.4
+15	8.8	24.4

3315

3+8725 = W.L 33d - 60'St

+15	9.0	24.2
So	9.0	24.2
Ch.	8.6	24.6
+10	8.3	24.9
¼	6.5	26.7
½	4.4	28.8
C	4.5	28.7
+2.5 No. rail	4.50	28.7
¼	4.9	28.3
Ch.	5.2	28.0
+10	5.4	27.8
No.	7.1	26.1
+2	8.2	25.0
+20	8.8	24.4

+10 = W. Ch 33d

+20	8.5	24.7
+5	7.7	25.5
No.	6.5	26.7
+3	6.0	27.2
Ch.	5.4	27.8
½	5.1	28.1
C	4.7	28.5
+9	5.1	28.1
½	7.0	26.2
Ch.	8.5	24.7
So	8.7	24.5
+15	9.0	24.2

W½ 33d

+15	9.4	23.8
So	8.6	24.6
Ch.	8.7	24.5
+6	8.5	24.7
¼	6.3	26.9
+3	5.7	27.5

33.15

W 433d

C	50	28.2
H	53	27.9
Cl.	55	27.7
No	66	26.6
+50	84	24.8

℄ 33d

+20	8.3	24.9
No	66	26.6
Cl	5.8	27.4
H	5.5	27.7
C	52	28.0
+11	54	27.8
H	6.2	27.0
+6	85	24.7
Cl.	9.0	24.2
So	90	24.2
+15	90	24.2

E H 33d

+15	93	23.9
So	92	24.0
Cl.	90	24.2
+6	88	24.4
H	64	26.8
+2	55	27.7
C	55	27.7
H	56	27.6
Cl.	60	27.2
No	73	25.9
+20	84	24.8

E Cl 33d

+20	85	24.7
No	70	25.9
Cl.	62	27.0
H	58	27.4
C	56	27.6
+11	56	27.6
H	61	27.1
+8	88	24.4
Cl	92	24.0
So	90	24.2
+15	90	24.2

3315

EL. 33[illegible] = 0+00

+15		9.2	24.0
So		9.2	24.0
cl		9.2	24.0
+6		8.9	24.3
℄		5.9	27.3
℄		5.8	27.4
+3.2 = No rail		5.86	27.34
℄		5.9	2.7.3
cl		6.3	26.9
No		6.7	26.5
+20		7.7	25.5

0+25

No. on board platform in front of Store		6.2	27.0
+6. edge	"	{6.2 6.7 ground	27.0 26.5
cl		6.6	26.6
℄		6.3	26.9
3.5 No ℄ = No rail		6.10	27.1
C		6.0	27.2
+11		6.0	27.2
℄		6.6	26.6
℄+10		9.0	24.2
cl		9.3	23.9
So		9.4	23.8
+10		9.4	23.8
T.P.	5.34	32.58	5.96	27.19

0+50

+10		9.0	23.5
So		8.9	23.6
cl.		8.7	23.8
+5		8.2	24.3
℄		6.3	26.2
+2		5.6	26.9
C		5.5	27.0
+3.8 = No rail		5.60	26.9
℄		5.8	26.7
cl.		6.1	26.4
+12		6.0	26.5
No		6.8	25.7
+10		7.3	25.2

32.53

0+75

+10	7.3	25.2	
No	7.0	25.5	
+5	6.2	26.3	
Ch	5.9	26.6	
H	5.7	26.8	
H No L No rail	5.2	26.58	
C	5.6	26.9	
+9	5.4	27.1	
H	6.3	26.2	
+8	8.3	24.2	
Ch	8.9	23.6	
So	8.9	23.6	
+10	9.0	23.5	
	1+00		
+10	9.0	23.5	
So	8.8	23.7	
Ch	8.4	24.1	
+3	7.9	24.6	
H	6.9	25.6	
C	5.7	26.8	

C+4.2= No rail	5.6	26.84	
H	5.8	26.7	
Ch	6.0	26.5	
No	6.5	26.0	
+1	7.3	25.2	
+10	7.4	25.1	
	1+25		
+10	7.9	25.6	
+1	7.7	24.8	
No	6.6	25.9	
Ch	6.0	26.5	
H	5.8	26.7	
H9 No L No rail	5.65	26.85	
C	5.7	26.8	
+11	5.7	26.8	
H	6.8	25.7	
+6	8.9	23.6	
Ch	9.1	23.4	
So	9.0	23.5	
+10	9.0	23.5	

82.53

1+50.

+10		8.7	23.8
So		8.6	23.9
Cl.		8.8	23.7
+1		8.4	24.1
4		6.5	26.0
+2		5.6	26.9
0.35o of ℄ - So rail		.564	26.86
C		5.7	26.8
2		5.8	26.7
Cl.		5.9	26.6
No		6.8	25.7
+1		7.5	25.0
+10		7.9	24.6
	1+75		
+10		7.8	24.7
No		7.8	24.7
+2		6.7	25.8
Cl.		5.9	26.6
4		5.7	26.8
C - So Rail		.551	26.99

+11		5.5	27.0
4		6.2	26.1
+5		8.3	24.2
Cl.		8.2	23.9
So		8.3	24.2
+10		8.5	24.0
	2+00		
+10		8.1	24.4
So		8.1	24.4
Cl.		8.3	24.2
+1		8.1	24.4
4		6.4	26.1
+2		5.7	26.8
C		5.2	27.1
+.2 - So Rail		5.42	27.08
4		5.6	26.9
Cl.		5.9	26.6
+4		6.1	26.4
+8		7.2	25.3
+12		7.2	25.3
No		8.0	24.5
+10		8.2	24.3

3+53

2+25

+10	82	24.3
Ho	82	24.3
+1	75	25.0
+6	72	25.1
+10	62	26.3
Cl.	6.0	26.5
4	57	26.8
0.5 No & - Sorail	5.7	27.23
C	5.3	27.2
+11	56	26.9
4	58	26.7
+5	80	24.5
Cl.	79	24.6
So	79	24.6
+10	80	24.5

2+50

+10	9.2	23.3
So	9.2	23.3
Cl.	88	23.7
+8	85	24.0
3	7.1	25.4
+3	5.4	27.1
C	5.1	27.4
+04 Sorail	5.10	27.4
4	56	26.9
Cl	58	26.7
+3	58	26.7
+7	80	24.5
No	87	23.8
+10	88	23.7

32.53

2+75

+10		84	24.1
No		94	23.1
+2		9.3	23.2
+10		5.2	27.1
Ch.		54	27.1
4		53	27.2
1' No & So rail		4.83	27.67
C		4.8	27.7
+9		5.0	27.6
4		69	25.6
+5		89	23.6
Ch.		92	23.3
So		92	23.3
+10		9.2	23.3

3+00

+10		9.3	
So		93	23.2
Ch.		88	23.7
+6		89	23.6
4		72	25.3
+4		52	27.3
C		45	28.0
+1.3	= So rail	4.47	28.03
4		48	27.7
Ch.		51	27.4
+3		51	27.4
+10		88	23.7
Ch.		89	23.6
+10		88	23.7

32.53

3+25

+15		73	25.2
+10		9.8	22.7
N6		72	25.3
+5		68	25.7
+11		40	28.1
Ch.		4.5	28.0
4		44	28.1
1.5 N6 ℄ So rail		4.13	28.37
C		4.1	28.4
+9		47	27.8
4		6.8	25.7
+6		87	23.8
Ch.		89	23.6
So		9.3	23.2
+10		94	23.1

3+50 82 → W. end bridge

+10		10.0	22.5
So		99	22.6
Ch.		9.8	22.7
+3		89	23.6
4		7.2	25.3
9.6 So ℄ = Cor bridge		4.0	28.5
C		38	28.7
+ 1.8 = So rail		373	28.80
4		39	28.6
Ch.		40	28.5
+2.6 = Cor bridge		40	28.5
+8		10.5	22.0
N6		11.2	21.3
+10		11.6	20.9

3+53

3+75 on bridge

29 No ℄ edge bridge	36	28.9
Ch	36	28.9
⅓	36	28.9
21.2 No ℄ So rail	37.1	28.79
C	38	28.7
+9.3 = edge bridge	37	28.8

4+00 on bridge

9.1 So ℄ edge bridge	34	29.1
C	37	28.8
+2.4 = So rail	36	28.9
⅓	35	29.0
Ch	36	28.9
29.2 No ℄ edge bridge	36	28.9

4+27.55 end bridge

29.5 No ℄ "	38	28.7
Ch	39	28.6
⅓	39	28.6
21.7 No ℄ So rail	37.2	28.78
C	38	28.7
8.9 = SL me bridge	38	28.7

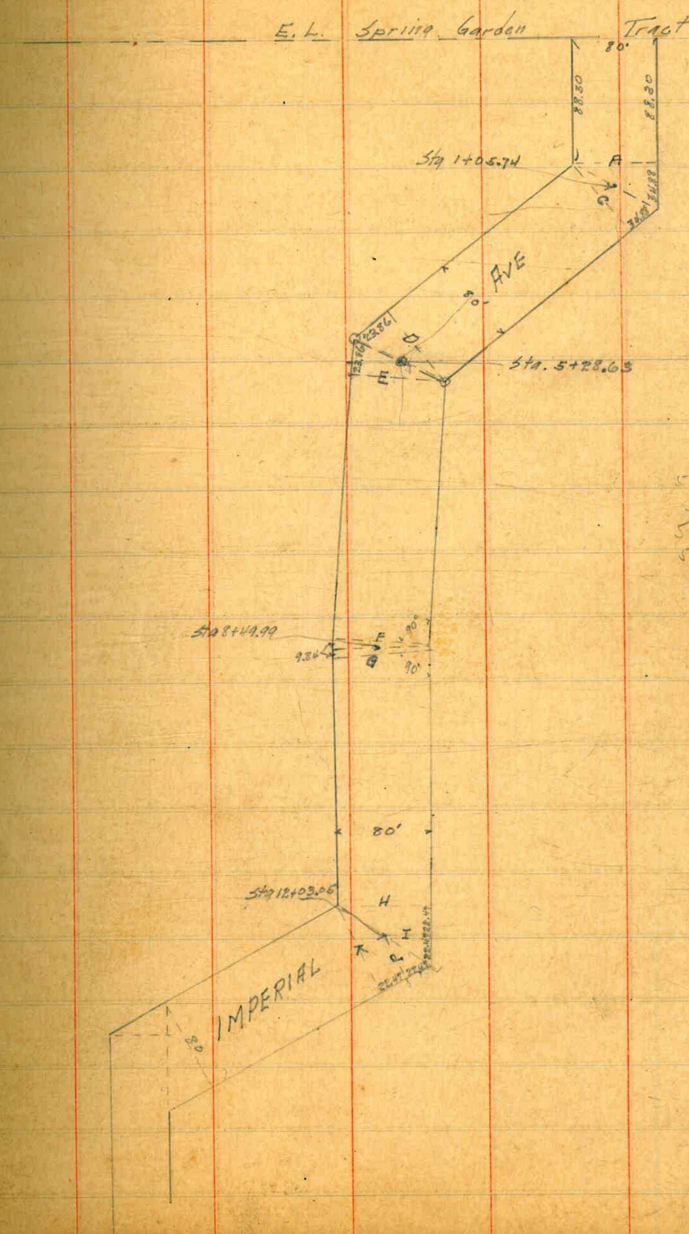
4+50

+10	12.6	19.9
⅔	12.6	19.9
+7	11.2	21.8
Ch	10.9	21.6
⅓	6.4	26.1
⅓	4.3	28.2
C	4.1	28.4
+3.0 = So rail	4.02	28.48
⅓	4.2	28.3
Ch	4.4	28.1
+⅓	4.2	28.3
+8	5.4	27.1
No	5.5	27.0
+1	6.6	25.9
+10	6.6	25.9

32.53

4+85.72 = E.L. Spring Garden

No	59		26.6
cL	54		27.1
Lt	4.6		27.1
3.3 No ¢ = So rail	4.64		27.86
C	48		27.7
+11	4.9		27.6
Lt	63		26.2
+7	9.4		23.1
cL	10.2		22.3
So	11.0		21.5
+15	11.4		21.1
	6.07	26.46 r	26.41 Mon SE 34th



5+28.63
11.93
5+16.70
5+40.56

2/17/19 Davis Gregory

CROSS SECTION
IMPERIAL AVE
FROM E.L. Spring Garden Tract

12.23 38.64 26.41 SE 34°42' M

E.L. Spring Garden Tract = 0+00 on ℄ 80' St.
rail measurements are to guage

-15		17.6	21 0
So.		17.3	21 3
ob		16.5	22 1
+11		15.5	23 1
1/4		12.4	26 2
+2		11.2	27.4
C		11 0	27.6
+3.3 = So rail		10.80	27 8
1/4		10.8	27 8
ob		11.6	27 0
+5		12.1	26 5
N		11.9	26 7
+10		12.0	26 6
	0+25		
-10		13.4	25.2
N		13.3	25.3
+8		12.2	25 4
+14 Cb		11.9	26 7

IMPERIAL

1/4		11.2	27.4
2.8 No. of ℄ = So. rail		11.15	27 4.5
C		11.2	27.4
1/4		11.5	27.1
+2		11.8	26.8
+5		13.8	24 8
+9		14.9	23.7
ob		15.0	23 6
+4		15.8	22 8
So.		16.1	22.5
+15		16.4	22 2
	0+50		
-15		15.8	22.8
So.		14.9	23.7
+9		14.6	24 0
ob		13.6	25 0
+5		12.4	26.2
1/4		11.9	26.7
0.4 So. of ℄ = So rail		11.37	27 23
C		11.4	27 2

		38.64									
1/2			11.6	27.0		+6			12.4	26.4	
cb			12.0	26.6		No. Line			80	30.6	
+4			12.0	26.6				1+05.74 = A pt Section taken on radial line			
+7			12.7	25.9		So.			12.1	26.5	
No			13.1	25.5		cb			11.6	27.0	
+10			13.1	25.5		25.3 No of So Line = Sorail			11.43	27.17	
		0+88.3 = SECT. A.	see sketch page 57			1/2			11.4	27.2	
-10			9.3	29.3		C			11.6	27.0	
No.			11.8	26.8		+8			12.2	26.4	
+4			12.5	26.1		1/2			12.2	26.4	
cb			12.3	26.3		+7			12.3	26.3	
1/2			12.0	26.6		+11.			9.8	28.8	
C			11.6	27.2		+11.1			6.7	31.9	
+12.3			11.46	27.14		cb			6.2	32.4	
1/4			11.5	27.1		No.			2.9	35.7	
cb			11.9	26.7				1+23.18 = SECT C			
+6			12.3	26.3		No.			2.6	36.0	
So.			12.1	26.5		+13			6.2	32.4	
		10' E of SECT A Taken at Lt to No. Line				cb			10.5	28.1	
No. cb.			12.5	26.1		+11			12.2	26.4	

	38.6 ↓		
℄		12.1	26.5
C		11.4	27.2
℄		11.3	27.3
+8 = So rail		11.42	27.18
cb		11.8	26.8
+7		12.2	26.4
So.		12.1	26.5
	1+50 on ℄		
So		12.1	26.5
cb		12.0	26.6
℄		11.4	27.2
+6? = So rail		11.39	27.61
C		11.3	27.3
℄		11.8	26.8
+8		11.9	26.7
cb		11.0	27.6
+3.5		7.2	31.4
+4		5.0	33.6
No.		2.0	36.6

	1+75 on ℄		
No.		1.4	37.2
+4		2.6	36.0
+10		10.2	28.2
cb		11.5	27.1
+6		11.8	26.8
℄		11.5	27.1
C		11.1	27.5
+4.5 = So rail		11.32	27.28
℄		11.3	27.3
cb		11.9	26.7
So.		12.4	26.2
	2+00		
So		12.0	26.6
cb		12.0	26.6
℄		11.3	27.3
3.8 So. of ℄ = So rail		11.14	27.46
C		11.0	27.6
℄		11.4	27.2
+9		11.8	26.8

		38.64		
cl		11.3	27.3	
+4		11.1	27.5	
+10		4.1	34.5	
No		2.4	36.2	
	2+25			
No		3.9	34.7	
+4		4.1	34.5	
+8		9.9	28.7	
+11		11.3	27.3	
cl		11.5	27.1	
1/4		11.3	27.3	
C		10.9	27.7	
+3.9 = So rail		10.98	27.02	
1/4		11.5	27.1	
cl		12.0	26.6	
So		11.9	26.7	
	2+50			
So.		11.6	27.0	
cl		11.9	26.7	
1/4		11.4	27.2	

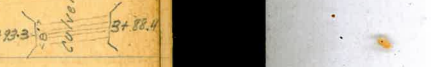
3.9 So ox C = So rail			10.88	27.72
C			10.8	27.8
1/4			11.2	27.4
TP	9.30	36.83	11.11	27.53
+10			9.7	27.1
cl			9.4	27.4
+4			9.2	27.6
+8			7.8	29.0
+10			2.9	33.9
No.			2.7	32.1
		2+80		
No			2.6	34.2
+3.5			3.3	33.5
+5			7.4	29.4
+10			9.2	27.6
cl			9.3	27.5
1/4			9.2	27.6
C			8.8	28.0
+3.9			8.87	27.93
1/4			9.5	27.3

	36.83		
cl-		9.7	27.1
So.		9.6	27.2
	3+05		
So.		10.5	26.3
cl-		9.5	27.3
1/4		9.0	27.8
3.9 So. ox cl = So rail		8.75	28.05
C		8.7	28.1
1/4		8.9	27.9
cl-		8.7	28.1
+6		9.2	27.4
+11		5.4	31.2
No.		5.1	31.7
	3+11		
No.		7.6	29.2
cl-		8.5	28.3
1/4		8.8	28.8
C		8.6	28.2
1/4		9.1	27.7
cl-		9.5	27.3

So.		10.5	26.3
	3+25		
So.		10.4	26.4
cl-		9.5	27.3
1/4		9.1	27.7
4.0 So. ox cl = So rail		8.65	28.15
C		8.6	28.2
1/4		8.7	28.1
cl-		8.3	28.5
No.		6.9	29.9
	3+56		
No.		13.5	23.3
+7		13.1	23.7
cl-		9.3	27.5
+3		8.4	28.4
+6		8.6	28.2
1/4		8.7	28.1
C		8.4	28.4
+4.0 = So rail		8.44	28.36
1/4		8.9	27.9

		36.83		
cl.			9.3	27.5
+3			9.7	27.1
+8			11.5	25.3
So.			12.2	24.6
		3+83		
-10			14.7	22.1
So.			15.5	21.3
+10			14.4	22.4
cl.			11.5	25.3
+4			8.9	27.9
1/4			8.6	28.2
3.8 So. ox &	= So rail		8.29	28.71
C			8.3	28.5
1/4			8.5	28.3
+7			8.7	28.1
+12			8.5	28.3
cl.			9.2	27.6
T.P.	4.10	37.38	8.55	28.28
+6			9.3	23.1
+9			11.0	21.4

No.		10.8	21.6
+10		11.1	21.3
	3+89 = NL ox {3' Double Pipes} on W 0.6' So. ox & ox ← ~ ~ on E		
-10		11.1	21.3
No.		11.7	20.7
+7.5 = face ox Culvert		12.87	19.53 = flow line
+7.6		8.5	23.9 = top coping
cl.		4.6	27.8
+5		4.3	28.1
1/4		4.1	28.3
C		3.8	28.6
1/4		4.1	28.3
+8		4.2	28.2
cl.		6.6	25.8
+3.6		9.3	23.1 top coping
+3.7 = face ox culvert.		13.72	18.68 = flow line
So.		15.7	16.7
+10		13.0	19.4



32.38

3+93

-10	14.7	17.7	
So.	15.7	16.7	
+5	14.2	18.2	
+10.5	13.7	18.7	face culvert
+10.6	9.2	23.2	
cl	6.6	25.8	
+5	4.2	28.2	
1/4	4.1	28.3	
C	3.8	28.6	
1/2	4.1	28.3	
+8	4.3	28.1	
cl	4.5	27.9	
+6.5	8.4	24.0	
+6.6	12.7	19.7	
No.	12.4	20.0	
+10	12.4	20.0	

3+97

-10	10.6	21.8
No	10.7	21.7
+7.5	7.8	24.6
cl	4.5	27.9
+5	4.1	28.3
1/4	4.1	28.3
C	3.8	28.6
1/2	3.9	28.5
+8	4.0	28.4
cl	7.6	24.8
+3.7	9.9	22.5
+3.8	13.7	18.7
+9	14.0	18.4
So.	14.9	17.5
+10	14.5	17.9

4+03

-10	12.5	19.9
So.	11.7	20.7
+8	11.8	20.6

cb		6.6	25.8
+6		3.8	28.6
1/4		3.9	28.5
3.6 So. ox 6 = So rail		3.75	28.65
C		3.7	28.7
1/4		4.1	28.3
+9		4.1	28.3
cb		4.5	27.9
+6		7.0	25.4
No		7.8	24.6
+10		8.4	24.0
	4+25		
-10		7.6	27.8
No.		7.1	25.3
+6		6.6	25.8
cb		3.9	28.5
1/4		3.8	28.6
C		3.5	28.9
+2.1 = So rail		3.49	28.91
1/4		3.6	28.8

+8		3.7	28.7
cb		6.3	26.1
+5		9.3	23.1
So.		9.5	22.9
+10		9.9	22.5
	4+50		
-10		9.0	23.4
So.		8.8	23.6
+10		8.4	24.0
cb		6.3	26.1
+5		3.7	28.7
1/4		3.4	29.0
C		3.3	29.1
C+1.0		3.25	29.15
1/4		3.5	28.9
cb		3.6	28.8
+2		3.8	28.6
+7		6.6	25.8
No		6.9	25.5
+10		7.0	25.4

	4+75	
-10	5.9	26.5
No.	5.7	26.7
+7	4.8	27.6
+10	3.6	28.8
cb	3.5	28.9
1/4	3.2	29.2
5.5 No. ox 6 = So rail	2.82	29.58
C	3.0	29.4
1/4	3.2	29.2
+4	3.6	28.8
cb	6.9	25.5
+1	7.6	24.8
So.	7.7	24.7
	5+16.7 = SECT. D.	
So.	6.2	26.2
cb	5.5	26.9
+7	5.5	26.9
1/4	4.0	28.4
+3	2.4	30.0

C	1.9	30.5
1/4	1.9	30.5
+3.9 = So rail	1.72	30.68
cb	1.9	30.5
+7	2.1	30.3
No	3.3	29.1
+10	4.2	28.2
5+28.63 = △PT on ℄		
No.	3.3	29.1
+7	2.1	30.3
cb	1.8	30.6
1/4	1.6	30.8
C	1.6	30.8
+7	2.1	30.3
1/4	3.3	29.1
+2	4.9	27.5
cb	4.9	27.5
So.	4.9	27.5
+10	5.2	27.2

3238

5+40.56 = SECT E

-5			3.6	28.8
So.			3.7	28.7
cb			3.9	28.5
+7			3.7	28.7
1/4			2.2	30.2
+3			1.5	30.9
C			1.2	31.2
1/4			1.4	31.0
+4.5 = So rail			1.24	31.16
cb			1.8	30.6
+7			2.2	30.2
No.			3.3	29.1
		5+75		
-10			4.9	27.5
No.			4.8	27.6
+7			4.2	28.2
T.P.	11.73	43.07 ✓	1.04	31.34 ✓
+13			11.4	31.7
cb			11.5	31.6

1/4			10.5	32.6
103 No. ox 4 = So rail			10.28	32.82
C			10.6	32.5
1/4			10.7	32.4
+5			10.9	32.2
cb			12.1	31.0
So.			12.0	31.1
+5			13.1	30.0
		6+00		
-5			9.7	33.4
So.			10.7	32.4
cb			10.5	32.6
+7			9.3	33.8
1/4			9.1	34.0
C			9.3	33.9
+6.8 = So rail			8.92	34.18
1/4			9.4	33.7
+12			10.0	33.1
cb			11.0	32.1
+6			14.8	28.3

No.			15.0	28.1		cl		7.8	35.3
+10			15.6	27.5		¼		6.8	36.3
		6+25 ✓				C		6.4	36.7
-10			15.4	27.7		+3.9 = 50 rail		6.31	36.79
No.			14.1	29.1		¼		6.3	36.8
+5			13.5	29.6		+10		6.8	36.3
cl			9.3	33.8		cl		7.5	35.6
+4			8.3	34.8		+8		8.3	34.8
¼			8.0	35.1		No.		10.6	32.5
						+5		12.4	30.7
4.5 No. of C = 50 rail			7.49	35.61		+10		13.0	30.1
C			7.8	35.3			6+52 ✓		
¼			7.9	35.2		-10		12.2	30.9
+8			8.2	34.9		-6		11.8	31.3
cl			4.0	39.1		No.		9.8	33.3
+3			4.1	39.0		+3		7.8	35.3
50.			2.3	40.8		cl		7.1	36.0
		6+46				+5		6.2	36.9
50			+6.5	49.6		¼		6.1	37.0
+5			+5.0	48.1		C		6.0	37.1
+12			7.7	35.4		¼		6.4	36.7

ab		7.6	35 5
+4		6.7	36 4
+11		2.1	41.0
So		+8.3	31 4
	6+75		
So.		3.1	40.0
+8		6.5	36.6
ab		6.2	35 9
1/4		5.2	37.9
C		4.8	38 3
+4.0 = So rail		4.59	38.51
1/4		4.8	38 3
+9		5.0	38.1
ab		5.7	37.4
No.		5.7	37 4
+2.0		5.9	37.2
	6+86		
No.		5.4	37.7
ab		5.0	38.1

	7+00		
-23		17.5	25 6
-14		15.9	27.2
No		6.6	36.5
+5		5.2	37.9
ab		3.9	39.2
+6		3.1	40.0
1/4		3.2	39 9
4.4 No. of E = So rail		3.15	39.95
C		3.3	39 8
1/4		3.8	39 3
+10		4.3	38 8
ab		5.2	37.9
+12.5		4.4	38.7
So.		2.3	40 8
	7+25		
So.		+7.2	50 3
+10		1.0	42.1
ab		2.6	40 5
1/4		2.3	40 8

		43.07							
C			1.7	41.4	1/4			11.9	42.0
+4.9 = Sorail			1.59	41.51	+8			12.3	41.6
1/4			1.6	41.5	cb			8.6	45.3
+9			1.8	41.3	+8			3.3	50.6
cb			3.4	39.7	Sa.			+7.0	60.9
No.			10.6	32.5			7+50		
+8			15.0	28.1	Sa.			+7.7	61.6
+13			15.4	27.7	+8			+5.0	58.9
+24			17.9	25.4	cb			1.9	52.0
T.P	11.57	53.88	0.76	42.31	+5			11.8	42.1
		7+45			1/4			11.4	42.5
-27			25.2	28.7	C			10.9	43.0
-20.			28.8	25.6	+5.3 = Sorail			10.83	43.07
-9			25.2	28.7	1/4			10.8	43.1
No.			24.2	29.7	+8			10.8	43.1
+9			18.6	35.3	cb			15.4	38.5
cb			14.0	39.9	+5			19.3	34.6
+5			11.5	42.4	No.			24.4	29.5
1/4			11.3	42.6	+20			28.6	25.3
C			11.3.	42.6	+27			25.5	28.4

	7+68		
-28	25.0	28.9	
-8	28.6	25.3	
-7	25.6	28.3	
No.	23.8	30.1	
cb	14.9	39.0	
+5	10.2	43.7	
1/4	9.8	44.1	
5.8 No. of ℄ = So rail	9.76	44.14	
C	9.9	44.0	
1/4	10.5	43.4	
+8	10.8	43.1	
+11	1.5	52.4	
cb	0.5	53.4	
+5	+3.7	57.6	
So	+5.9	59.8	
	7+79		
No. cb	13.2	40.7	
No.	24.5	29.4	
+5	27.8	26.1	

+20		26.3	27.6
+25		25.0	28.9
	7+93		
So.		+6.8	60.7
cb		+2.2	56.1
+3		0.0	53.9
+7		9.2	44.7
1/4		9.0	44.9
C		8.4	45.5
+6.3 = So rail		8.24	45.66
1/4		8.3	45.6
+7		8.1	45.8
cb		12.8	40.1
+10		19.2	34.7
No.		21.0	32.9
+4		23.0	30.9
+7		27.5	26.4
+26		25.0	28.9

		8+25					1/L	6.2	47.7
-24			27.1	26.8			C	5.4	48.5
-8			24.3	29.6			+7.8 = So. rail	5.06	48.84
No.			20.0	33.9			1/L	5.2	48.7
cl-			9.6	44.3			+10	5.3	48.6
+3			7.0	46.9			cl.	7.5	46.4
+8			6.3	47.6			+7	12.5	41.4
1/L			6.4	47.5			No.	17.3	36.6
6.8 No. of L = So. rail			6.28	47.62			+8	21.3	32.6
C			6.6	47.3			+14	24.1	29.8
1/L			7.1	46.8			+27	24.7	29.2
+3			7.2	46.7			8+49.99 = △ pt on L		
cl			+2.5	56.4			-27	24.7	29.2
So			+7.3	61.2			-14	24.1	29.8
		8+45.07 = SECT F		see sketch page 57			-8	21.3	32.6
So.			+7.2	61.1			No.	17.3	36.6
+11			+3.6	57.5			+7	12.5	41.4
cl			+1.9	55.8			cl	6.9	47.0
+6			2.5	51.4			+3	5.1	48.8
+11			6.2	47.7			1/L	5.1	48.8

C			5.1	48.8	+8			21.3	31.6	
+6			5.2	48.7	+14			24.1	29.8	
1/2			5.9	48.0	+27			24.7	29.2	
+6			3.4	50.5			8+75			
cb			+2.3	56.2	-29			23.7	30.2	
+5			+4.4	58.3	-14			22.4	31.5	
So.			+8.2	62.1	-6			20.5	33.4	
		8+54.91 = SECT 6			No.			17.1	36.8	
So.			+8.5	62.4	cb			7.2	46.7	
cb			+2.7	56.6	+6			4.2	49.7	
+4			0.9	53.0	1/2			3.7	50.2	
+11			5.4	48.5	5.1 No. or 2 = So. rail			3.39	50.51	
1/2			5.2	48.7	C			3.6	50.3	
+7			4.8	49.1	+9			3.6	50.3	
C			4.8	49.1	1/2			4.0	49.9	
+7.4 No = So rail			4.58	49.32	+5			4.4	49.5	
1/4			4.8	49.1	+13.9			+2.1	56.0	
+10			5.2	48.7	cb			+4.2	58.1	
cb			7.0	46.9	+6			+6.3	61.2	
No.			17.3	36.6	So.			+9.5	63.4	

		53.88								
		9+00			-10			20.0	33.9	
So.			+12.2	66.1	No.			14.4	39.5	
+8			+8.1	62.0	ab			4.8	49.1	
+13			+6.7	60.6	T.P.	12.55	66.18	0.25	53.63	
ab			+5.2	59.1	+7			11.8	54.4	
+3.5			+0.6	54.5	1/4			11.6	54.6	
+7			3.1	50.8	3.5 No. ox Q = So rail			11.30	54.8	
1/4			2.3	51.6	C			11.5	54.6	
C			2.1	51.8	1/4			11.7	54.5	
+3.8 No. = So rail.			1.93	51.97	+5			12.2	54.0	
1/4			2.4	51.5	+6			10.6	55.6	
+3			2.3	51.6	+9			8.4	57.8	
+9			3.6	50.3	+11			1.3	64.9	
ab			6.7	47.2	ab			0.5	65.7	
No.			16.5	37.4	So			+4.9	71.1	
+5			19.2	34.7			9+75			
+14			22.0	31.9	So.			+7.8	74.0	
+30			23.1	30.8	+6			+5.5	71.7	
		9+50			ab			1.5	64.7	
-30			21.8	37.1	+9			10.4	55.8	

1/4			10.3	55.9	1/4			8.6	57.6
C			10.1	56.1	+9			8.9	57.3
+3.6 = Sorail			9.83	56.37	Cl-			1.1	65.1
1/4			10.0	56.2	+2			0.2	66.0
+6			10.3	55.9	+8			+7.5	73.7
Cl-			15.3	50.9	So.			+9.7	75.9
No.			25.2	41.0			10+21		
+10			30.1	36.1	So.			+10.0	76.2
+4.4			32.4	33.8	+6.0			+7.8	74.0
+3.5			35.7	30.5	Cl-			+2.8	69.0
		10+05			+3			1.3	64.9
-35			34.4	31.8	+6			7.0	59.2
-2.5			29.7	36.5	+10			8.0	58.2
-16			29.0	37.2	1/4			7.7	58.5
No.			22.7	43.5	C			7.2	59.0
Cl-			12.9	53.3	+3.6 = Sorail			7.04	59.16
+8			8.4	57.8	1/4			7.1	59.1
1/4			8.2	58.0	+5			7.4	58.8
3.6 No. of C = Sorail			8.00	58.2	Cl-			13.3	52.9
C			8.2	58.0	N			22.3	43.9

+17			25.7	40.5				10+40			
+31			29.0	37.2			So		+10.7	76.9	
		10+36					cb		+ 2.3	68.5	
-31			28.8	37.4			+4		3.7	62.5	
-25			28.6	37.6			+9		6.9	59.3	
-16			26.1	40.1			1/4		6.6	59.6	
N			21.8	44.4			C		6.1	60.1	
cb			12.1	54.1			1/4		6.1	60.1	
+8			6.4	59.8			+6		6.3	59.9	
1/4			6.3	59.9			cb		11.3	54.9	
+9			6.2	60.0			N		21.2	45.0	
C			6.4	59.8			+3		23.0	43.2	
1/4			6.9	59.3			+25		28.4	37.8	
+4			6.9	59.3			+35		28.6	37.6	
cb			4.0	62.2				10+75			
+9			+7.9	74.1			-32		25.8	40.4	
So.			+10.6	76.8			-5		21.0	45.2	
							N		18.7	47.5	
							cb		8.8	57.4	
							+8		4.3	61.9	

1/4		3.8	62.4	
3.8 No. of ℄ = So. rail.		3.74	62.46	
C		3.9	62.3	
1/4		4.5	61.7	
+6		5.0	61.2	
cb		+0.9	67.1	
+3		+6.3	72.5	
So.		+11.0	77.2	
	10+75			
So		+11.8	78.0	
+5		+8.6	74.8	
+11.5		+6.7	72.9	
cb		0.0	66.2	
	11+00			
So.		+13.1	79.3	
+12		+8.0	74.2	
cb		1.0	65.2	
+7		3.7	62.5	
1/4		2.9	63.3	
C		2.4	63.8	

66.2

+3.8 = So rail		2.16	64.04
1/4		2.2	64.0
+6		2.6	63.6
cb		7.2	59.0
+10		14.7	51.5
No		15.9	50.3
+10		21.2	45.0
+30		24.0	42.2
	11+25		
-30		21.8	44.4
-13		17.5	48.7
No.		12.9	53.3
cb		4.6	61.6
+6		0.4	65.8
1/4		0.3	65.9
3.7 No. of ℄ = So Rail		0.52	65.68
C		0.6	65.6
1/4		1.3	64.9
+9		2.1	64.1
cb		+9.0	75.2

		66.18		
+7			+14.2	80.4
So			+16.0	82.2
		11+50		
So			+20.3	86.5
+8			+18.6	84.8
+11			+13.2	79.4
ab			+0.7	66.9
+2			0.3	65.9
T.P.	9.50	75.49	0.19	65.99
1/4			9.1	66.4
C			8.3	67.2
+1.9 = So rail			8.33	67.17
1/4			8.2	67.3
+6			8.1	67.4
ab			9.9	65.6
No.			16.7	58.8
+24			23.8	51.7
		11+65		
No.			12.6	62.9
+9			9.1	66.4
ab			8.3	67.2

11+80.58 = SECT H.

-20	17.5	58.0
-11	14.0	61.5
No.	12.2	63.3
+9	7.9	67.6
ab	7.5	68.0
1/4	6.6	68.9
C	6.5	69.0
+5.9 = So rail	6.58	68.92
1/4	6.8	68.7
ab	7.3	68.2
+3	7.6	68.9
+11	+11.0	86.5
So.	+11.5	87.0

12+03+05 = SECT. I

C	5.5	70.0
No. 1/4	5.8	69.7
+10	6.8	68.7
No. Ab.	8.2	67.3
+9	12.3	68.2

No.		14.3	61.2
+6		16.0	59.5
+22		21.2	54.3
	12+03.05 = Apt Taken on radial line		
-45		38.5	37.0
-32		35.3	40.2
-20		29.4	46.1
No.		20.5	55.0
+8		16.5	59.0
cb		12.0	63.5
+10		6.3	69.2
1/4		5.6	69.9
C		5.5	70.0
+14.4 = 30. rail		5.63	69.87
1/4		5.6	69.9
cb		6.6	68.9
+5		6.8	68.7
+9.5		2.0	73.5
+12		+11.0	86.5
30		+11.5	87.0

	12+03.05 = SECT. J		
C		5.5	70.0
No. 1/4		5.4	70.1
+8		6.0	69.5
cb		9.6	65.9
No.		16.8	58.7
+20		25.6	49.9
+33		33.8	41.7
+55		34.6	40.9
	12+~~73.05~~ 25.52 = SECT. K.		
-50.0		34.8	40.7
-25.0		26.1	49.4
-24.0		29.2	46.3
-15.0		28.8	46.7
-14.0		23.8	51.7
-7.0		20.7	54.8
No.		15.2	60.3
cb		6.4	69.1
	CONTINUED IN Book 1053-page 1		

32nd M - 67.05 NW

33rd NE Mon 25.57

34th SE Mon 26.41 - inside fence

6+54
50 +8.3

6+61
+4.0

8+75
-6 20.5
-14 28.7
-24

7+68
50 +5.9
+9 +3.7
db 0.5
+2 1.5

7+93
50 +6.8
db +2.2
+3 00

7+79
+25 +26
+26.3 +20
+27.8 +5
+24.5 No
13.2 db

11+25
50 +16.0
+7 +14.2
db +9.0

12+00
50 +20.3
+8 +18.6
+11 +13.2

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.