1018

FIELD BOOK

360

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.

FOR KEITH'S RAILROAD CURVE TABLES SEE END OF BOOK.

Cross-Section of Linda Vista Road-thru Silver Terrace {Davis Herrick O'Hara}

	+	H.I.	-	Elev.	
	6.57	51.30		50.73 on Hub 314+54 83	
		315+00			
20 W	(L)		3.8	47.5	
10			4.3	47.0	
C			4.3	47.0	
10			4.2	47.1	
20 E	(R)		4.5	46.8	
		315+50			
20 E			8.0	43.3	
10			8.3	43.0	
C			8.3	43.0	
10			7.9	43.4	
20 W			7.7	43.6	
		316+00			
20 W			10.8	40.5	
10			11.2	40.1	
T.P.	0.87	41.25	10.92	40.38	
C			1.2	40.1	
10			1.0	40.3	
20 E			1.1	40.2	
		316+50			
20 E			3.7	37.6	
10			3.6	37.7	
C			3.5	37.8	
10			3.3	38.0	
20 W			3.2	38.1	

41.25

	317+00		
20 W		5.2	36.1
10		5.0	36.3
C		5.2	36.1
10		5.2	36.1
20 E		5.4	35.9
	317+50		
20 E		7.1	34.2
10		7.1	34.2
C		7.0	34.3
10		7.1	34.2
20 W		7.1	34.2
	318+00		
20 W		7.8	33.5
10		8.1	33.2
C		8.5	32.8
10		8.5	32.8
20 E		8.3	33.0
	318+50		
20 E		9.0	32.3
10		8.6	32.7
C		9.2	32.1
10		9.4	31.9
20 W		9.4	31.9

41.25

319+00

20W (L)		9.7	31.6
10		9.8	31.5
C		9.6	31.7
10		9.7	31.6
20 E		9.9	31.4

319+60

20E		10.1	31.2
10		10.0	31.3
C		10.0	31.3
10		10.2	31.1
20 W		10.5	30.8
T.P.	4.00	35.52 ✓	9.73 31.52 ✓

320+00

20 W		4.8	30.7
10		4.8	30.7
C		4.6	30.9
10		4.6	30.9
20 E		4.6	30.9

320+50

20 E		4.3	31.2
10		4.7	30.8
C		4.8	30.7
10		4.8	30.7
20 W		5.0	30.5

35.58 ✓

321+00

20W		5.1	30.4
10		4.8	30.7
C		4.9	30.6 ✓
10		4.9	30.6
20 E		4.8	30.7

321+50

25 E		4.8	30.7
10		5.3	30.2
C		5.3	30.2
10		5.1	30.4
25 W		5.3	30.2

322+00

25 W		5.5	30.0
10		5.7	29.8
C		5.5	30.0
10		5.7	29.8
25 E		5.7	29.8

322+50

25 E		6.0	29.5
10		6.2	29.3
C		6.1	29.4
10		6.0	29.5
25 W		6.2	29.3

35.52

		323+00		
25W			89	26.6
10			84	27.1
C			8.2	27.3
6			8.1	27.4
7			8.7	26.8
10			8.8	26.7
25E			9.1	26.4
T.P	1.11	24.62	12.01	23.51
		323+50		
25E			2.1	22.5
13			2.5	22.1
12			1.4	23.2
10			1.4	23.2
C			1.7	22.9
10			2.2	22.4
25W			2.2	22.4
		324+00		
25W			6.7	17.9
10			6.5	18.1
C			6.3	18.3
10			6.1	18.5
13			6.2	18.4
14			7.3	17.3
25E			6.8	17.8

	2462	324+50		
25E			10.5	14.1
16			10.8	13.8
15			10.1	14.5
10			10.2	14.4
C			10.3	14.3
10			10.5	14.1
25W			10.6	14.0
T.P 2.02		14.68	11.96	12.66
		325+00		
25W			3.2	11.5
10			3.0	11.7
C			3.1	11.6
10			3.7	11.0
17			2.6	12.1
25E			2.5	12.2
		325+50		
25E			3.9	10.8
13			5.0	9.7
10			4.9	9.8
7			4.4	10.3
C			4.4	10.3
10			4.4	10.3
25W			4.4	10.3

14.68

3x6+00

25W	5.7	9.0
10	5.8	8.9
C	5.7	9.0
10	5.4	9.3
19	6.1	8.3
25E	5.0	9.7

3x6+50

25E	6.3	8.4
22	6.9	7.8
18	6.1	8.6
10	6.0	8.7
C	6.2	8.5
10	6.3	8.4
25W	6.7	8.0

3x7+00

25W	6.7	8.0
10	7.1	7.6
C	7.3	7.4
10	7.5	7.2
23	7.3	7.4
25E	7.9	6.8

14.68

3x7+10

25'E	8.1	6.6
22	7.7	7.0
10	8.6	6.1
C	8.7	6.0
10	8.5	6.2
16	8.4	6.3
20	7.5	7.2
25W	7.4	7.3

3x7+50

25W	9.9	4.8
10	9.9	4.8
C	9.3	5.4
10	8.1	6.6
22	7.9	6.8
25E	7.1	7.6

3x7+70

25E	6.5	8.2
10	6.8	7.9
C	6.8	7.9
10	7.0	7.7
25W	7.5	7.2

1468

328+00

25W			7.0	7.7
10			6.6	8.1
C			6.5	8.2
10			6.7	8.5
25E			6.9	8.8

327+50

25E			6.0	8.7
10			6.7	8.5
C			6.4	8.3
10			6.9	8.8
25W			6.5	8.2

329+00

25W			6.1	8.6
10			6.6	9.1
C			6.9	8.8
10			6.1	8.6
25E			6.3	8.4
T.P	7.75	16.52	6.91	8.77

329+50

25E			8.3	8.2
10			8.6	7.9
C			8.3	8.2
10			8.3	8.2
25W			8.6	7.9

16.52

6

330+00

25W	8.1	8.4
10	8.1	8.4
C	8.0	8.5
10	8.3	8.2
25E	8.6	7.9

330+50

25E	8.3	8.2
10	8.4	8.1
C	8.5	8.0
10	8.4	8.1
25W	8.4	8.1

330+75

25W	10.0	6.5
10	9.2	7.3
C	9.1	7.4
10	9.0	7.5
25E	9.6	6.9

331+00

25E	9.2	7.3
18	9.2	7.3
10	7.0	9.5
C	6.7	9.8
10	8.1	8.4
25W	7.8	8.7

16.52

331+28 – Taken along edge of dyke

25 W	2.9	13.6
10	2.1	13.7
C	2.6	13.9
10	2.8	13.7
25 E	2.8	13.7

331+45.27 Taken along ℄ of Dyke

25 E	2.3	14.2
10	2.3	14.2
C	2.3	14.2
10	2.3	14.2
25 W	2.1	14.4

	11.43	62.16			50.73 on Hub 314+57.83

314+57.83 – Taken on dividing angle

20 R = E			13.0	49.2	
10			12.2	50.0	
C			11.5	50.7	
10			11.4	50.8	
20 L = W			10.5	51.7	
314+00					
20 L			6.8	55.4	
10			7.2	55.0	
C			8.0	54.2	
10			9.0	53.2	
20 R			9.6	52.6	
313+50					
20 R			6.5	55.7	
10			5.7	56.5	
C			4.6	57.6	
10			3.9	58.3	
20 L			3.0	59.2	
313+00					
20 R			2.2	60.0	
10			1.4	60.8	
C			0.6	61.6	
T.P	11.78	73.71	0.23		61.93 ✓
10			11.2	62.5	
20 L			10.7	63.0	

73.71

312+50

20L			6.2	67.5
10			6.7	67.0
C			7.7	66.0
10			8.9	64.8
20R			10.2	63.5

312+00

20R			6.0	67.7
10			4.8	68.9
C			3.0	70.7
20L			1.9	71.8

311+50

20L			0.2	73.5
10			1.3	72.4
C			2.2	71.5
10			2.9	70.8
20R			3.6	70.1
T.P	10.03	81.00	2.74	70.97

311+00

20R			13.8	67.2
10			12.2	68.8
C			11.0	70.0
10			9.2	71.8
20L			7.6	73.4

81.00

310+50

20L			3.8	77.2
10			5.6	75.4
C			6.9	74.1
10			8.6	72.4
20R			10.4	70.6

310+00

20R			6.5	74.5
10			4.6	76.4
C			2.9	78.1
10			1.4	79.6
T.P	10.65	90.30	1.35	79.65
20L			8.9	81.4

309+50

20L			7.0	83.3
10			8.3	82.0
C			10.0	80.3
10			11.5	78.8
20R			13.4	76.9

309+37

20R			13.6	76.7
10			11.6	78.7
C			8.7	81.6
10			7.9	82.4
20L			6.8	83.5

90.30

309+29

20 L	8.0	82.3
10	9.2	81.1
C	10.7	79.6
10	11.6	78.7
20 R	11.9	78.4

309+23

20 R	12.0	78.3
10	10.5	79.8
C	9.4	80.9
10	7.3	83.0
20 L	4.8	85.5

309+05

20 L	4.0	86.0
10	5.9	84.4
C	7.7	82.6
10	9.5	80.8
20 R	10.5	79.8

309+00

30 R	15.5	74.8
20	14.2	76.1
10	11.8	78.5
C	9.2	81.1
10	8.7	81.6
20	7.5	82.8
30 L	4.1	84.2

90.30

308+95

30 L	5.8	84.5
20	7.1	83.2
10	9.1	80.9
C	11.6	78.7
10	12.5	77.8
20	13.9	76.4
30 R	14.1	75.9

308+81

30 R	10.8	79.5
20	8.9	81.4
10	7.7	82.6
C	6.3	84.0
10	4.6	85.7
20	3.3	87.0
30 L	1.9	88.4

308+50

30 L	0.5	89.8
20	1.9	88.4
10	3.2	87.1
C	4.7	85.6
10	6.6	83.7
20	7.8	82.5
30 R	9.2	81.1

90.30

305+00

30 R			7.0	83.3
20			5.4	84.9
10			3.8	86.5
C			2.7	87.6
10			1.5	88.8
T.P	0.15	94.35	1.10	89.20
20			4.0	90.4
30 L			2.4	92.0

307+00

30 L			1.9	92.5
20			3.3	91.1
10			4.4	90.0
C			6.0	88.4
10			7.7	86.7
20			9.6	84.8
30 R			11.3	83.1

307+75

50 R			16.5	77.9
30			12.7	81.7
20			11.2	83.2
10			9.5	84.9
C			7.7	86.7
10			6.3	88.1
20			4.7	89.7
30 L			3.1	91.3

94.35

307+00

40 L			3.8	90.6
30			5.9	88.5
20			7.7	86.7
10			9.4	85.0
C			11.2	83.2
10			12.9	81.5
20			15.7	78.7
30			17.6	76.8
50 R			23.2	71.2

306+75

40 L			10.0	84.4
30			12.2	82.2
T.P.	1.68	84.14	11.89	82.46
20			3.2	80.9
10			6.8	77.3
C			8.9	75.2
10			12.2	71.9
30			17.3	66.8
50			18.5	65.6
70 R			19.9	64.2

306+50

70 R			19.8	64.3
50			18.2	65.9
30			17.2	66.9
10			17.0	67.1

84.14

306+58

C	16.1	68.0
10	14.3	69.8
30	11.1	73.0
50	4.9	79.2
70 L	1.7	82.4
306+30		
70 L	12.4	71.7
50	13.1	71.0
30	14.6	69.7
10	14.8	69.3
C	14.8	69.3
10	14.9	69.2
30	14.0	70.1
50	11.3	72.8
70 R	10.8	73.3
306+00		
70 R	1.2	82.9
50	0.2	83.9
30	0.3	83.8
10	0.8	83.3
C	0.4	83.7
10	0.1	84.0
30	0.1	84.0
50	3.6	80.5
70 L	6.2	77.9

T.P	11.80	95.62	0.32	83.82 ✓
305+75				
50 L			1.6	94.1
30			2.7	92.9
10			3.4	92.2
C			3.7	91.9
10			4.2	91.4
30			5.5	90.1
50 R			7.0	88.6
305+60				
50 R			4.9	90.7
30			2.7	92.9
T.P	11.77	107.20	0.9	95.43 ✓
10			1.4	94.8
C			1.6	95.6
10			1.3	95.9
30			10.3	96.9
40 L			10.3	96.9
305+50				
40 L			7.6	99.6
30			8.2	99.0
10			9.7	97.5
C			10.5	96.7
10			11.6	95.7
30			13.2	94.0
40			14.3	92.9

107.20

305+08 93 EC

40 R			9.6	97.6
20			7.7	99.5
10			6.5	100.7
C			5.3	101.9
10			4.1	103.1
20			2.8	104.4
40 L			0.2	107.0
		304+50		
40 R			4.0	103.2
20			1.4	105.8
T.P	11.83	118.70	0.33	106.87
10			11.6	107.1
C			10.4	108.3
10			9.1	109.6
20			8.2	110.5
30			6.9	111.8
40 L			5.6	113.1
		304+00		
40 L			0.5	118.2
30			2.3	116.4
20			3.8	114.9
10			4.9	113.8
C			5.7	113.0
10			7.3	111.4
20			9.2	109.5
40 R			12.0	106.7

118.70

303+50

40 R			10.5	108.2
20			9.0	109.7
14			5.6	113.1
10			5.4	113.3
C			3.9	114.8
10			2.3	116.4
20			0.5	118.2
T.P	11.95	130.13	0.57	118.18
30			10.7	119.4
40 L			8.7	121.4
		303+01	68 PC	
40 L			7.1	123.0
30			8.5	121.6
20			10.1	120.0
10			11.6	118.5
C			13.0	117.1
10			16.7	113.4
20			17.9	112.2
30 R			18.7	111.4
		302+50		
30 R			15.1	115.0
20			15.1	115.0
10			13.5	116.6
C			11.8	118.3
10			10.8	119.3
20			8.9	121.2
40			7.7	122.4
30 L			6.5	123.6

130.13

302+00

30L			4.1	126.0
20			5.5	124.6
10			7.0	123.1
8			7.0	123.1
5			9.5	120.6
C			9.6	120.5
10			10.5	119.6
20			11.2	118.9
30 R			12.7	117.4

301+50

30R			9.0	121.1
20			7.1	123.0
10			6.6	123.5
C			5.9	124.2
4			6.5	123.6
10			3.1	127.0
20			2.7	127.4
30 L			0.0	130.1
T.P	11.54	141.54	0.12	130.00 ✓

301+00

30L			7.1	134.4
20			8.6	132.9
10			10.2	131.3
4			12.9	128.6
C			12.9	128.6
10			14.0	127.5
20			14.5	127.0
30 R			17.6	123.9

141.54

300+50

30 R			12.7	128.8
20			10.8	130.7
10			10.6	130.9
C			10.2	131.3
7			7.2	134.3
10			7.0	134.5
20			5.5	136.0
30L			3.9	137.6

300+00

30 L			0.0	141.5
20			6.8	140.7
10			1.9	139.6
C			2.8	138.7
1			2.9	138.6
5			6.0	135.5
10			5.7	135.8
20			5.1	136.4
30 R			5.5	136.0

299+50

30R			1.6	139.9
20			1.4	140.1
T.P.	1.83	152.13	1.24	140.30 ✓
14			11.6	140.5
10			10.5	141.6
5			9.2	142.9

152.13

299+50

C		9.2	142.9
10		8.5	143.6
20		7.7	144.4
30 L		6.8	145.3
	299+00		
30 L		4.7	147.4
20		5.7	146.4
10		6.8	145.3
C		7.7	144.4
10		10.0	142.1
20		11.1	141.0
30 R		12.5	139.6
	298+50		
30 R		13.5	138.6
20		10.3	141.8
10		9.6	142.5
4		7.4	144.7
C		7.0	145.1
10		5.6	146.5
20		4.3	147.8
30 L		2.9	149.2

152.13

298+00

30 L			+0.3	151.8
20			0.9	151.2
10			2.5	149.6
C			4.6	147.5
10			6.6	145.5
14			7.4	144.7
20			9.3	142.8
30 R			10.1	142.0
		297+62 INEC.		
30 R			7.7	144.4
20			5.4	146.7
10			3.5	148.6
C			1.4	150.7
T.P	1.86	163.50	0.48	151.65
10			10.5	153.0
20			8.5	155.0
30 L		Corr N1. 163.59	6.5	157.0
		297+50	6.27	157.23 157.32 Bm 5th 197
30 L			4.9	158.7
20			7.1	156.5
10			9.2	154.4
C			11.4	152.2
10			13.6	150.0
20			16.0	147.6
30			18.2	145.4

163.59

297+25

30 R	16.0	147.6
20	14.8	148.8
10	11.4	152.2
C	9.0	154.6
10	6.8	156.8
20	4.4	159.2
30 L	2.4	161.2

297+00

30L	1.8	162.8
20	3.1	160.5
10	6.8	157.8
C	8.2	155.4
10	10.8	152.8
20	12.4	151.2
30 R	15.0	148.6

296+75

30R	17.0	146.6
20	14.3	149.3
10	11.2	152.4
C	8.6	155.0
10	6.7	156.9
20	5.1	158.5
30	2.5	161.1

163.59

296+50

40 L	12.5	149.8
30	15.3	148.3
20	17.5	146.1
10	19.2	144.4
C	21.7	141.9
10	22.2	141.4
20	23.0	140.6
30	22.7	140.9
40 R	23.0	140.6

296+25

40 R	22.0	141.6
30	21.2	142.4
20	18.5	145.1
10	14.1	149.5
C	10.9	152.7
10	10.0	153.6
20	8.2	155.4
30 L	7.0	156.6

296+14.83 PC

30 L	2.3	161.3
20	4.1	159.5
10	6.1	157.5
C	7.6	156.0
10	10.8	152.8
20	15.0	148.6
30	15.3	148.3
40	16.0	147.6

		16 3.59		
		296+00		
40 R			13.6	150.0
30			11.7	151.9
20			9.1	154.5
10			6.5	157.1
C			4.0	159.6
10			1.8	161.8
20			0.0	163.6
T.P.	12.05	175.60	0.04	163.55
30 L			9.9	165.7
		295+64.24 Ec		
30 L			5.5	170.1
20			8.4	167.2
10			10.8	164.8
C			14.0	161.6
10			16.4	159.2
20			18.8	156.8
30 R			20.8	154.8
		295+50		
30 R			20.0	155.6
20			17.6	158.0
10			15.2	160.4
C			12.9	162.7
10			10.7	165.4
20			7.5	168.1
30 L			4.7	170.9

		17560		
		295+00		
30 L			0.4	175.2
20			3.8	171.8
10			6.5	169.1
C			8.6	167.0
10			10.6	165.0
20			13.4	162.2
30 R			18.4	157.2
		294+50		
30 R			12.7	162.9
20			11.8	163.8
16			9.3	166.3
10			8.1	167.5
C			6.4	169.2
10			4.3	171.3
20			2.2	173.4
T.P.	11.83	187.22	0.21	175.39
30 L			1.9	173.3
		294+00		
30 L			8.9	178.3
20			11.6	175.6
10			14.0	173.2
C			16.9	170.3
10			20.1	166.6
20			21.8	165.7
24			23.0	164.2
26			25.4	161.8
24			22.4	164.6
30 R			20.4	164.8

187.22

293+44.13 P.C.

30 R	16.0	171.2
20	15.0	172.2
20	16.0	171.2
15	17.4	169.8
10	15.5	171.7
C	15.4	171.8
10	11.9	175.3
20	9.2	178.0
30 L	6.2	181.0

293+00

30 L	4.0	183.2
20	5.9	181.3
10	7.8	179.4
C	10.4	176.8
10	10.8	176.4
11	12.3	174.9
14	11.0	176.2
20 R	11.2	176.0

292+50

20 R	7.3	179.9
10	7.5	179.7
C	7.0	180.2
10	5.4	181.8
20 L	3.9	183.3

187.22

292+32.22 EC

20 L	2.8	184.4
10	3.6	183.6
C	5.4	181.8
10	5.8	181.4
20 R	5.9	181.3

292+00

20 R	3.9	183.3
10	4.3	182.9
C	4.5	182.7
10	2.3	184.9
20 L	1.2	186.0

T.R 12.07 197.76 14.8 185.74

291+50

20 L	10.1	187.7
10	11.4	186.4
C	12.6	185.2
10	12.1	185.7
20 R	11.7	186.1

291+00

20 R	9.1	188.7
10	9.8	188.0
C	10.0	187.8
10	9.3	188.5
20 L	8.0	189.8

		197.76		
		290+50		
20L			5.1	192.7
10			6.6	191.2
C			7.7	190.1
10			7.9	189.9
20R			6.3	191.5
		290+00		
20R			4.6	193.2
10			5.5	192.3
C			5.6	192.2
10			4.9	192.9
20L			3.0	194.8
		289+50		
20L			2.4	195.4
10			3.7	194.1
C			3.9	193.9
10			3.6	194.2
20R			3.0	194.8
		289+00		
20R			1.3	196.5
10			2.0	195.8
C			2.4	195.4
10			2.2	195.6
20L			1.6	196.2
T.P.	11.37	208.63	0.50	197.26

208.63

	288+50		
20L	11.0	197.6	
10	11.3	197.3	
C	11.5	197.1	
10	11.0	197.8	
20R	10.3	198.3	
	288+00		
20R	8.4	200.2	
10	9.2	199.4	
C	9.6	199.0	
10	9.2	199.4	
20L	8.9	199.7	
	287+77.77 PC		
20L	7.9	200.7	
10	8.1	200.5	
C	8.6	200.0	
10	8.5	200.1	
20R	7.8	200.8	
	287+00		
20R	5.1	203.5	
10	6.1	202.5	
C	6.6	202.0	
10	5.9	202.7	
20L	5.6	203.0	

208.63

286+50

20L	45	204.1
10	48	203.8
C	54	203.2
10	50	203.6
20R	42	204.4

286+00 -2

20R	2.1	206.5
10	3.6	205.0
C	4.2	204.4
10	4.0	204.6
20L	4.0	204.6

285+50

20L	3.2	205.4
10	3.3	205.3
C	3.0	205.6
10	1.1	207.5
20R	0.7	207.9

285+00

20R	1.1	207.5
10	1.9	206.7
C	2.5	206.1
10	2.7	205.9
20L	3.4	205.2

208.63

284+50

20L	37	204.9
10	26	206.0
C	2.3	206.3
10	1.5	207.1
20R	0.8	207.8
T.P 6.43	213.53	1.53 207.10

284+00

20R	4.3	209.2
10	5.0	208.5
C	6.5	207.0
10	6.8	206.7
20L	7.6	205.9

283+50

20L	6.3	207.2
10	5.7	207.8
C	5.5	208.0
10	4.3	209.2
20R	3.7	209.8

282+99.4 EC

20R	3.6	209.9
10	4.3	209.2
C	5.2	208.3
10	5.8	207.7
20L	6.2	207.3

21353

282+50

20 L		6.5	207.0
10		6.0	207.5
C		5.4	208.1
10		4.9	208.6
20 R		3.7	209.8
	282+00		
20 R		3.0	210.5
10		4.2	209.3
C		5.2	208.3
10		5.7	207.8
20 L		6.2	207.3
	281+50		
20 L		7.0	206.5
10		6.2	207.3
C		5.2	208.3
10		4.3	209.2
20 R		3.2	210.3
	280+92.29 P.C.		
20 R		3.5	210.0
10		4.5	209.0
C		5.2	208.3
10		5.0	208.5
20 L		5.4	208.1

21353

280+50

20 L		5.6	207.9
10		5.3	208.2
C		5.1	208.4
10		4.3	209.2
20 R		3.5	210.0
	280+00		
20 R		4.4	209.1
10		4.7	208.8
C		5.4	208.1
10		5.3	208.2
20 L		5.1	208.4
	279+50		
20 L		7.0	206.5
10		7.0	206.5
C		6.7	206.8
10		6.3	207.2
20 R		4.8	208.7
	279+05.78 EC		
20 R		4.3	209.4
10		5.8	207.7
C		6.5	209.0
10		7.7	205.8
20 L		9.1	204.4
30		8.4	205.1

213.53

278+50

30 L			10.4	203.1
25			8.3	205.2
20			7.6	205.9
10			6.5	207.0
C			5.5	208.0
10			5.3	208.2
20 R			3.6	209.9
		278+00		
20 R			3.3	210.2
10			3.9	209.6
C			4.2	209.3
10			4.9	208.6
20			5.3	208.2
30 L			5.5	208.0
		277+50		
30 L			3.5	210.0
20			3.0	210.5
10			2.2	211.3
C			2.0	211.5
10			2.1	211.4
20 R			1.8	211.7
T.P.	11.95	223.75	1.53	212.00

223.75

277+00

20 R		10.1	213.7
10		10.1	213.7
C		10.1	213.7
10		10.1	213.7
20 L		10.6	213.2
	276+76.7' PC		
20 L		9.7	214.1
10		9.1	214.7
C		9.2	214.6
10		9.2	214.6
20 R		8.8	215.0
	276+50		
20 R		8.1	215.7
10		8.1	215.7
C		8.2	215.6
10		8.4	215.4
20 L		8.6	215.2
	276+00		
20 L		5.8	218.0
10		5.9	217.9
C		6.5	217.3
10		7.0	216.8
20		8.0	215.2
40 R		12.5	211.3

		273.75		
		275+50		
40 R			6.3	217.5
20			4.9	218.9
10			4.1	219.7
C			4.0	219.8
10			3.6	220.2
20 L			2.8	221.0
		275+00		
20 L			0.1	223.7
10			0.0	223.8
C			0.4	223.4
10			0.9	222.9
20			0.8	223.0
40 R			3.0	220.8
		274+50		
50 R			8.4	215.4
30			4.7	219.1
20			1.8	222.0
T.P	12:03	235.65	0.13	223.62 ✓
10			11.4	224.3
C			10.0	225.7
10			9.5	226.3
20			9.4	226.3
30 L			9.6	226.1

		235.65		
		274+00		
30 L			7.9	227.8
20			8.8	226.9
10			9.2	226.3
C			10.0	225.7
10			10.5	225.2
20			12.6	223.1
30			13.5	222.2
50 R			15.0	220.7
		273+50		
40 R			5.9	229.8
30			5.5	230.2
20			6.1	229.6
10			6.9	228.8
C			8.5	227.2
10			9.1	226.6
20			10.6	225.1
30			12.4	223.1
50 L			17.5	218.2
		273+25		
50 L			14.5	221.2
30			10.1	225.6
20			8.2	227.5
10			6.9	228.8
C			5.8	229.9
10			5.2	230.5
20			0.9	234.8
30 R			0.0	235.7

235.65

273+00

50 L			10.2	225.5
35			7.3	228.4
20			4.1	231.6
15			3.2	232.5
10			3.9	231.8
5			2.7	233.0
C			0.9	234.8
T.P.	12.03	247.42	0.24	235.39
5			10.1	237.3
10			9.5	237.9
20			7.5	239.9
30 R			5.7	241.7

272+75

50 L			18.7	228.7
40			15.9	231.5
30			14.7	232.7
15			12.7	234.7
10			12.1	234.3
C			10.2	237.2
10			5.1	242.3
20			0.0	247.4
TP	11.90	258.97	0.35	247.07
30 R			9.3	249.7

258.97

272+50

30 R			6.6	252.4
20			8.6	250.4
10			11.5	247.5
C			18.4	240.6
5			20.4	238.6
10			21.0	238.0
15			19.9	239.1
30			24.7	234.3
50 L			28.6	230.4

272+75

50 L			23.3	235.7
25			18.8	240.2
15			15.7	243.3
10			15.7	243.3
C			15.0	244.0
5			12.6	246.4
10			11.0	248.0
20			8.1	250.9
30 R			5.7	253.3

258.97

271+00

30 R		3.4	255.6
20		5.0	254.0
10		7.9	251.1
C		11.7	247.3
10		12.1	246.9
20		11.6	247.4
25		14.4	244.6
40 L		15.4	243.6
	271+75		
30 L		6.8	252.2
14		5.0	254.0
10		5.3	253.7
4		7.9	251.1
C		7.8	251.2
2		7.6	251.4
10		3.0	256.0
20		2.4	256.4
30 R		2.4	256.6
	271+50		
30 R		1.8	257.2
20		0.8	258.2
10		3.4	255.6
4		4.3	254.7
C		3.6	255.4
1		1.6	257.4
10 L		1.4	257.6

258.97

271+50

20		1.1	257.9
30 L		1.4	257.6
T.P	6.42	263.81	1.58 257.39
	271+38 EC		
30 L		6.7	258.1
20		6.7	258.1
10		5.0	258.8
C		6.0	257.8
10		7.9	255.9
20		7.5	256.3
30 R		6.3	257.5
	271+00		
40 R		6.5	257.3
20		5.6	258.2
10		5.1	258.7
C		4.6	259.2
10		3.8	260.0
20		3.1	260.7
40 L		2.6	261.2
40 L	270+50	2.1	261.7
30		3.3	260.5
10		3.8	260.0
C		4.4	259.4
10		5.0	258.8
20		5.4	258.4
40 R		6.7	257.6

263.81

270+00

40 R	7.0	256.8
20	6.4	257.4
10	6.0	257.8
C	5.4	258.4
10	5.1	258.7
20	4.4	259.4
40 L	4.0	259.8

269+47.67 P.C.

30 L	6.0	257.8
20	6.3	257.5
10	6.5	257.3
C	7.0	256.8
10	7.2	256.6
20	7.5	256.3
30 R	7.8	256.0

269+00

30 R	8.7	255.1
20	8.8	255.0
10	8.5	255.3
C	8.2	255.6
10	7.9	255.9
20 L	7.8	256.0
30	7.7	256.1

263.81

268+50

20 L	9.7	254.1
10	9.7	254.1
C	9.6	254.2
10	10.0	253.8
20 R	10.1	253.7

268+00

20 R	11.6	252.2
10	11.2	252.6
C	11.5	252.3
10	11.1	252.7
20 L	11.0	252.8
T.P. 705	259.61 11.55	252.26 ✓

267+50

20 L	9.4	250.2
10	9.7	249.9
C	9.3	250.3
10	9.8	249.8
20 R	9.9	249.7

267+00

20 R	10.7	248.9
10	10.6	249.0
C	10.8	248.8
10	10.9	248.7
20	10.5	249.1

259.61

26+50

20 L	9.7	249.9
10	10.0	249.6
C	10.1	249.2
10	10.0	249.6
20 R	10.5	249.1

26+00

20 R	9.7	249.9
10	9.4	250.2
C	9.1	250.5
10	8.8	250.8
20 L	8.7	250.9

25+50

20 L	6.8	252.8
10	7.1	252.5
C	7.6	252.0
10	7.8	251.8
20 R	8.1	251.5

25+00

20 R	6.2	253.4
10	6.2	253.4
C	5.8	253.8
10	5.3	254.3
20 L	5.6	254.0

259.61

26+50

20 L	4.2	255.4
10	4.1	255.5
C	4.3	255.3
10	4.5	255.1
20 R	4.7	254.9

26+00

20 R	2.8	256.8
10	3.2	256.4
C	3.1	256.5
10	3.2	256.4
20 L	3.5	256.1

25+50

20 L	5.2	254.4
10	4.5	255.1
C	3.9	255.7
10	3.9	255.7
20 R	3.2	256.4

25+49.32 P.C.

20 R	3.5	256.1
10	4.3	255.3
C	4.6	255.0
10	5.5	253.1
20	9.1	250.5
50 L	19.0	240.6
TP 10.4	2.30	257.31

25+68.23

268.23

	262+50		
20 R		11.7	256.5
10		12.4	255.8
C		12.6	255.6
10		14.2	254.0
20		16.7	251.5
40 L		22.5	245.7
	262+00		
20 L		10.6	257.6
10		11.0	257.2
C		10.8	257.4
10		10.0	258.2
20 R		9.4	258.8
	261+50		
20 R		6.6	261.6
10		7.1	261.1
C		8.1	260.1
10		8.6	259.6
20 L		9.0	259.2
	261+00		
20 L		7.4	260.8
10		7.0	261.2
C		6.6	261.6
10		6.1	262.1
20 R		5.6	262.6

268.23

	260+50		
20 R		5.5	262.7
10		6.2	262.0
C		6.6	261.6
10		6.8	261.4
20 L		7.2	261.0
	260+00		
20 L		6.3	261.9
10		5.8	262.4
C		5.6	262.6
10		5.7	262.5
20 R		4.8	263.4
	259+50		
20 R		4.7	263.5
10		4.6	263.6
C		4.7	263.5
10		5.2	263.0
20 L		5.5	262.7
	259+00		
20 L		4.0	264.2
10		4.8	263.4
C		4.9	263.3
10		4.7	263.5
20 R		4.7	263.5

		268.23		
		258+50		
20R			3.5	264.7
10			2.7	265.5
C			2.5	265.7
10			2.3	264.9
20L			4.4	263.8
		258+00		
20L			2.9	265.3
10			1.7	266.5
C			1.9	266.3
10			2.5	265.7
20R			3.3	264.9
		257+50		
20R			20	266.2
10			24	265.8
C			24	265.8
10			22	266.0
20L			21	266.1
T.P.	8.15	274.37	2.01	266.22 ✓
		257+00		
20L			8.2	266.2
10			6.9	267.5
C			6.9	267.5
10			7.4	267.0
20R			7.3	267.1

		274.37		
		256+50		
20R			7.0	267.4
10			7.4	267.0
C			7.3	267.1
10			7.4	267.0
20L			7.6	266.8
		256+00		
20L			6.8	267.6
10			7.0	267.4
C			7.2	267.2
10			5.5	268.9
20R			4.9	269.5
		255+50		
20R			4.5	269.9
10			5.4	269.0
C			6.8	267.6
10			6.8	267.6
20L			6.2	268.2
		255+15.08 PC		
20L			6.2	268.2
10			5.6	268.8
C			5.4	269.0
10			6.0	268.4
20R			5.6	268.8
T.P	8.54	277.56	5.33	269.04 Hub E C 269.02

277.56

255+00

20 R		8.6	269.0
10		9.0	268.6
C		8.9	268.7
10		8.9	268.7
20 L		9.1	268.2

254+50

30 L		12.0	265.6
20		10.6	267.0
10		10.3	267.3
C		9.9	267.7
10		9.1	268.5
20 R		8.7	268.9

254+00

20 R		8.0	269.6
10		9.1	268.5
C		9.6	268.0
10		10.4	267.2
20		11.6	266.0
30 R		14.4	263.2

253+50

30 R		9.9	267.7
20		9.6	268.0
10		8.2	269.4
C		8.0	269.6
10		8.0	269.6
20 R		7.7	269.9

277.56

253+00

20 R		7.0	270.6
10		6.8	270.8
C		6.1	271.5
10		6.8	270.8
20 L		7.5	270.1

252+00

20 L		5.7	271.9
10		5.7	271.9
C		5.9	271.7
10		5.3	272.3
20 R		5.0	272.6

251+00

20 R		4.6	273.0
10		4.8	272.8
C		4.8	272.8
10		4.0	273.6
20 L		4.4	273.2

250+50

20 L		3.6	274.0
10		3.6	274.0
C		3.5	274.1
10		3.0	274.6
20 R		3.1	274.5

277.56

		251+00		
20 R			2.4	275.2
10			2.3	275.3
C			2.6	275.0
10			2.4	275.2
20 L			2.3	275.3
T.P.	5.57	281.43	1.70	275.86 ✓
		250+50		
20L			5.3	276.1
10			5.3	276.1
C			5.6	275.8
10			5.5	275.9
20R			5.7	275.7
		250+00		
20R			6.4	275.0
10			6.4	275.0
C			6.2	275.2
10			5.7	275.7
20L			5.6	275.8
		249+50		
20L			6.4	275.0
10			6.5	274.9
C			6.5	274.9
10			6.6	274.8
20R			5.8	275.6

28143

		249+00		
20R			6.5	274.9
10			6.5	274.9
C			5.9	275.5
10			5.7	276.2
20L			5.8	276.1
		248+50		
20L			5.5	275.9
10			5.5	275.9
C			5.6	275.8
10			6.0	275.4
20R			6.2	275.2
		248+00		
20R			6.5	274.9
10			6.5	274.9
C			6.3	275.1
10			6.2	275.2
20L			6.2	275.2
		247+50		
20L			6.2	275.2
10			6.4	275.0
C			6.3	275.1
10			6.2	275.2
20R			6.1	275.3

281.43

2+700

20 R			5.5	275.9
10			5.6	275.8
C			5.4	276.0
10			5.7	275.7
20 L			5.7	275.7

2+650

20 L			4.7	276.7
10			4.6	276.8
C			4.9	276.5
10			5.2	276.2
20 R			4.7	276.7

2+600

20 R			3.5	277.9
10			3.9	277.5
C			4.5	276.9
10			4.1	277.3
20 L			4.3	277.1
T.P	10.71	288.56	3.58	277.85

2+550

20 L			10.1	278.5
10			10.5	278.1
C			10.5	278.1
10			9.6	279.0
20 R			9.8	278.8

288.56

2+500

20 R		8.0	280.6
10		8.4	280.2
C		8.6	280.0
10		9.4	279.2
20 L		9.4	279.2

2+450

20 L		8.4	280.2
10		7.9	280.7
C		7.2	281.4
10		7.2	281.4
20 R		7.0	281.6

2+400

20 R		6.2	282.4
10		6.4	282.2
C		6.6	282.0
10		6.9	281.7
20 L		7.4	281.2

2+350

20 L		7.2	281.4
10		6.8	281.8
C		6.1	282.5
10		6.2	282.4
20 R		6.8	282.8

	24+300		
20R		5.6	283.0
10		5.7	282.9
C		6.1	282.5
10		6.4	282.2
20L		7.0	281.6
	24+250		
20L		6.4	282.0
10		5.9	282.7
C		5.9	282.7
10		5.6	283.0
20R		5.4	283.2
	24+200		
20R		7.7	280.9
10		7.2	281.4
C		7.0	281.6
10		6.J	282.2
20L		6.9	281.7
	24+150		
30L		7.7	280.9
20		8.1	280.5
10		8.0	280.6
C		8.3	280.3
10		8.3	280.3
20		8.5	280.1
30R		8.5	280.1

	24+100		
20R		6.2	282.4
10		6.4	282.2
C		6.4	282.2
10		6.1	282.5
20L		5.8	282.8
TP 970	297.25	10.7	287.45 17.55RM P.C
	24+30.45 EC		
20L		10.0	287.3
10		10.2	287.1
C		10.5	286.8
10		11.8	285.5
20R		12.6	284.7
	24+000		
20R		11.7	285.6
10		10.4	286.7
C		10.0	287.3
10		9.J	287.9
20L		9.0	288.3
	23+50		
20L		8.8	288.5
10		9.2	288.1
C		9.6	287.7
10		10.4	286.9
20R		11.0	286.3

297.25

	239+00		
20R		10.0	287.3
10		10.2	287.1
C		10.1	287.2
10		10.0	287.3
20L		9.2	288.1
	238+50		
30L		8.9	288.4
10		8.9	288.4
C		8.7	288.6
10		8.3	289.0
20R		7.8	289.5
	238+00		
20R		5.7	291.6
10		5.9	291.4
C		6.3	291.0
10		6.4	290.9
20L		6.9	290.4
	237+50		
20L		6.1	291.2
10		5.8	291.5
C		5.7	291.6
10		5.6	291.7
20R		5.5	291.8

297.25

	237+00		
30R		5.7	291.6
20		5.7	291.6
10		5.8	291.5
C		6.2	291.1
10		6.3	291.0
20		6.6	290.7
30L		6.5	290.8
	236+50		
30L		7.1	289.9
20		6.8	290.5
10		6.8	290.5
C		6.2	291.1
10		5.3	292.0
20		4.9	292.4
30R		4.6	292.7
	236+00		
30R		2.7	294.6
20		3.5	293.8
10		4.3	293.0
C		5.2	292.1
10		6.0	291.3
20		6.2	291.1
30L		7.1	290.2

		297.25		
		235+50		
30L			5.7	291.6
20			4.9	292.5
10			3.6	293.7
C			1.9	295.4
10			0.6	296.7
TP	11.50	308.11	0.6	296.61 ✓
20 R			10.4	297.7
		235+00		
20R			4.9	303.2
10			5.6	302.5
C			7.3	300.8
10			9.1	298.7
20			11.7	296.4
30 L			13.3	294.8
		234+50		
30L			6.7	301.4
20			5.5	302.6
10			4.2	303.9
C			3.6	304.5
10			3.7	304.4
20 R			3.3	304.8
TP	10.79	316.60	2.30	305.81 ✓

316.60

234+00

20R	10.1	306.5
10	10.7	305.9
C	11.4	305.2
10	11.0	305.6
20 L	11.7	304.9
	233+50	
20L	11.2	305.4
10	11.2	305.4
C	10.4	306.2
10	10.0	306.6
20R	10.0	306.6
	233+00	
20R	8.6	308.0
10	9.6	307.0
C	9.9	306.7
10	10.0	306.6
20 L	10.1	306.5
	232+50	
20 L	9.0	307.6
10	9.4	307.2
C	9.1	307.5
10	8.4	308.2
20 R	7.7	308.9

316.60

2+320

20R		7.6	309.0
10		8.1	308.5
C		8.4	308.2
10		9.0	307.6
20L		9.1	307.5

2+314.97 PC.

20L		8.5	308.1
10		7.8	308.8
C		6.7	309.9
10		6.5	310.1
20R		6.8	309.8
	~~316.65~~ 316.65	4.55	312.05

2+310

20R		6.0	310.7
10		6.0	310.7
C		6.1	310.6
10		6.4	310.3
20L		7.5	309.2

2+300

20L		5.1	311.6
10		5.3	311.4
C		5.2	311.5
10		5.0	311.7
20R		4.7	312.0

316.65

2+290

20R		2.9	313.8
10		3.1	313.6
C		3.6	313.1
10		4.2	312.5
20L		4.4	312.3

2+270

20L		3.1	313.6
10		2.5	314.2
C		2.1	314.6
10		1.6	315.1
20R		1.2	315.5
TIP	11.69	327.61	0.73	315.92

2+260

20R		10.8	316.8
10		11.2	316.4
C		11.6	316.0
10		12.1	315.5
20L		12.3	315.3

2+250

20L		10.5	317.1
10		9.9	317.7
C		9.8	317.8
10		9.6	318.0
20R		9.2	318.4

327.61

2+800

20R	7.7	319.9
10	7.9	319.7
C	8.2	319.0
10	8.4	318.7
20L	9.4	318.2

2+750

20L	10.0	317.6
10	9.5	318.1
C	9.5	318.1
10	8.9	318.7
20R	8.6	319.0

2+700

20R	8.7	318.9
10	9.1	318.5
C	9.3	318.3
10	9.8	317.8
20L	10.0	317.6

2+650

20L	9.3	318.3
10	9.0	318.6
C	8.8	318.8
10	8.3	319.3
20R	8.1	319.5

327.61

2+600

20R	6.6	321.0
10	6.5	321.1
C	7.0	320.6
10	8.0	319.6
20L	8.2	319.4

2+550

20L	6.6	321.0
10	6.5	321.1
C	6.1	321.5
10	5.3	322.3
20R	5.0	322.6

2+500

20R	3.8	323.8
10	4.3	323.3
C	4.7	322.9
10	4.8	322.8
20L	5.1	322.5

2+450

20L	4.3	323.3
10	3.9	323.7
C	3.4	324.2
10	2.8	324.8
20R	2.5	325.0
T.P. 10.68	337.13	326.45

337.0

224+00

20 R		10.4	326.7
10		11.1	326.0
C		11.5	325.6
10		12.3	324.8
20 L		12.6	324.5

223+50

20 L		11.1	326.0
10		10.7	326.4
C		9.9	327.2
10		9.0	328.1
20 R		8.9	328.2

223+00

20 R		7.5	329.6
10		7.9	329.2
C		8.5	328.6
10		9.3	327.8
20 L		9.8	327.3

222+50

20 L		8.1	329.0
10		7.3	329.8
C		6.2	330.9
10		5.3	331.8
20 R		4.9	332.2

337.13

222+00

20 R		2.8	334.3
10		4.1	333.0
C		5.0	332.1
10		6.2	330.9
20 L		7.0	330.1

221+50

20 L		5.8	331.3
10		4.5	332.6
C		3.7	333.4
10		2.8	334.3
20 R		1.7	335.4

221+00

20 R		0.0	337.1
10		1.1	336.0
C		2.4	334.7
10		3.8	333.3
20 L		4.6	332.5
T.P. 1176	340.46	0.43	336.70

220+50

20 L		1.43	334.2
10		1.35	335.0
C		1.24	336.1
10		1.17	337.3
20 R		1.04	338.1

348.46

2 20+00

20 R		8.8	339.7
10		9.3	339.2
C		10.5	338.0
10		12.2	336.3
20 L		12.9	335.6

2 19+50

20 L		10.5	338.0
10		9.5	339.0
C		9.1	339.4
10		7.5	341.0
20 R		6.8	341.7

2 19+00

20 R		5.3	343.2
10		6.5	342.0
C		7.6	340.9
10		8.8	339.7
20 L		9.8	338.7

2 18+50

20 L		8.7	339.8
10		8.1	340.4
C		6.5	342.0
10		5.6	342.9
20 R		5.0	343.5

348.46

2 18+00

20 R		3.4	345.1
10		4.2	344.3
C		6.2	342.3
10		7.9	340.6
20 L		9.0	339.5

2 17+50

20 L		7.9	340.6
10		6.2	342.3
C		4.9	343.6
10		4.1	344.4
20 R		3.0	345.5

2 16+70 39 EC.

20 R		1.5	347.0
10		2.6	345.9
C		4.3	344.2
10		5.9	342.6
20 L		6.8	341.7
10		7.6	340.9
T.P. 10+20	356.57	20.9	346.37 ✓

2 16+50

30 L		16.1	340.2
20		14.6	342.0
10		13.8	342.8
C		11.7	344.9
10		10.4	346.2
20 R		9.4	347.2

	356.57		
	216+00		
20R		8.1	348.5
10		8.8	347.8
C		10.6	346.0
10		11.4	345.2
20L		13.3	343.3
30		15.2	341.4
	215+50		
20L		10.7	345.9
10		10.2	346.4
C		8.9	347.7
10		7.5	349.1
20R		7.3	349.3
	215+00		
20R		6.8	349.8
10		6.9	349.7
C		7.9	348.7
10		8.7	347.9
20L		9.6	347.0
	214+50		
20L		7.5	349.1
10		6.3	350.3
C		6.3	350.3
10		5.2	351.2
20R		4.2	352.2
	356.53	6.22	350.35	350.31 Hwt BF

35653		
214+00		
20R	3.5	353.0
10	4.4	352.1
C	5.3	351.2
10	6.1	350.4
20L	6.5	350.0
213+50		
20L	5.9	350.6
10	5.3	351.2
C	4.5	352.0
10	3.6	352.9
20R	2.9	353.6
213+00		
20R	2.3	354.2
10	3.0	353.5
C	3.7	352.8
10	4.6	351.9
20L	5.3	351.2
212+50		
20L	3.8	352.7
10	3.6	352.9
C	3.3	353.2
10	2.6	353.9
20R	1.8	354.7

356.53

			2+400		
20R			2.3	354.2	
10			2.9	353.6	
C			3.6	352.9	
10			4.3	352.2	
20L			4.9	351.6	
			2+450		
20L			5.8	350.7	
10			5.6	350.9	
C			5.1	351.4	
10			4.0	352.5	
20R			2.6	353.9	
TIP	6.17	358.02	4.68	351.85	
			2+488 P.C.		
20R			6.0	352.0	
10			6.5	351.5	
C			7.0	351.0	
10			7.1	350.9	
20L			7.5	350.5	
			2+500		
20L			7.2	350.8	
10			6.8	351.2	
C			6.9	351.1	
10			6.8	351.2	
20R			6.0	352.0	
		357.96	0.79	357.23	357.17 RP Invert PC

357.96

	2+050		
20R	6.4	351.6	
10	6.9	351.1	
C	7.3	350.7	
10	7.2	350.8	
20L	6.1	351.9	
	2+000		
20L	6.9	351.1	
10	7.3	350.7	
C	6.9	351.1	
10	6.5	351.5	
20R	6.6	351.4	
	2+950		
20R	5.7	352.3	
10	5.8	352.2	
C	6.3	351.7	
10	6.9	351.1	
20L	7.2	350.8	
	2+900		
20L	5.2	352.4	
10	6.1	351.9	
C	5.5	352.5	
10	4.3	353.7	
20R	3.6	354.4	

357.96

	20 P+50		
20R		41	353.9
10		44	353.6
C		46	353.4
10		61	351.9
20L		67	351.3
	20 P+00		
20L		70	351.0
10		66	351.4
C		61	351.9
10		56	352.4
20R		50	353.0
	207+50		
20R		60	352.0
10		65	351.5
C		68	351.2
10		63	351.7
20L		60	352.0
	207+00		
20L		76	350.4
10		69	351.1
C		68	351.2
10		64	351.6
20R		61	351.9

357.96

	206+50		
20R		63	351.7
10		68	351.2
C		72	350.8
10		77	350.3
20L		80	350.0
T.P 8.77	358.46	7.77	350.19 ✓
	206+00		
20L		87	349.8
10		77	350.8
C		63	352.2
10		59	352.6
20R		64	352.1
	205+50		
20R		75	351.0
10		77	350.8
C		78	350.7
10		81	350.4
20L		85	350.0
	205+00		
20L		76	350.9
10		75	351.0
C		74	351.1
10		76	350.9
20R		68	351.7

358.46

	204+50		
20R		6.8	351.7
10		6.8	351.7
C		6.5	352.0
20L		6.5	352.0
20		6.2	352.3
	204+00		
20L		5.8	352.7
10		5.9	352.6
C		6.1	352.4
10		5.9	352.6
20R		5.6	352.9
	203+50		
20R		5.6	352.9
10		6.3	352.2
C		6.3	352.2
10		5.3	353.2
20L		6.1	352.4
	203+00		
20L		5.7	352.8
10		5.9	352.6
C		6.0	352.5
10		6.0	352.5
20R		5.8	352.7

358.46

	202+50		
20R		4.8	353.7
10		5.1	353.4
C		5.4	353.1
10		5.3	353.2
20L		5.2	353.3
	202+00		
20L		3.9	354.6
10		4.1	354.4
C		4.5	354.0
10		4.5	354.0
20R		4.0	354.5
TIP 7.4	361.26	4.4	354.2 ✓
	201+50		
20R		6.9	354.4
10		6.8	354.5
C		5.3	356.0
10		5.0	356.3
20L		5.0	356.3
	201+00		
20L		5.4	355.9
10		5.3	356.0
C		4.8	356.5
10		4.9	356.4
20R		5.6	355.7

361.26

200+50

20R	5.3	356.0
10	6.2	355.1
C	6.3	355.0
10	5.8	355.5
20L	5.3	356.0

200+00

20L	5.4	355.9
10	6.0	355.3
C	6.5	354.8
10	6.8	354.5
20R	6.7	354.6

199+50

20R	6.6	354.7
10	6.5	354.8
C	6.0	355.0
10	5.8	355.5
20L	5.5	355.8

199+00

20L	6.1	355.2
10	6.6	354.7
C	6.9	354.4
10	7.2	354.1
20R	7.5	353.8

361.24

198+50

20R	7.4	353.9
10	7.4	353.9
C	7.3	354.0
10	7.5	353.8
20L	7.3	354.0

198+00

20L	7.8	353.5
10	8.3	353.0
C	9.0	352.3
10	9.3	352.0
20R	9.5	351.8

197+50

20R	10.2	351.1
10	10.0	351.3
C	9.4	351.9
10	9.4	351.9
20L	9.4	351.9
TP 351	354.45	9.37	351.94 ✓

197+00

20L	3.4	351.1
10	3.8	350.7
C	3.8	350.7
10	3.3	351.2
20R	2.2	352.3

3544.45

196+50			
20R	4.6	349.9	
10	4.4	350.1	
C	4.4	350.1	
10	4.3	350.2	
20L	4.1	350.4	
196+00			
20L	4.7	349.8	
10	4.7	349.8	
C	4.7	349.8	
10	4.7	349.8	
20R	4.6	349.9	
195+50			
20R	5.2	349.3	
10	5.3	349.2	
C	5.2	349.3	
10	5.3	349.2	
20L	5.0	349.5	
195+00			
20L	3.8	350.7	
10	4.5	350.0	
C	5.6	348.9	
10	5.8	348.7	
20R	5.7	348.8	

3544.45

194+50			
20R	5.2	349.3	
10	4.9	349.6	
C	5.9	348.6	
10	6.5	348.0	
20L	6.3	348.2	
194+00			
20L	7.1	347.4	
10	7.2	347.3	
C	6.5	348.0	
10	5.7	348.8	
20R	5.4	349.1	
193+50			
20R	7.7	346.8	
10	7.2	347.3	
C	6.7	347.8	
10	6.6	347.9	
20L	6.9	347.6	
193+02.95 EC			
20L	7.5	347.0	
10	6.6	347.9	
C	6.6	347.9	
10	6.9	347.6	
20R	7.1	347.4	
TP. 4.27	351.50	7.19	347.26 347.25 ✓

1st POT

351.50

192+50

20 R	6.7	344.8
10	5.5	346.0
C	5.0	346.5
10	5.1	346.4
20 L	5.2	346.1

192+00

20 L	5.6	345.9
10	6.5	345.0
C	6.8	344.7
10	6.7	344.8
20 R	7.2	344.1

191+50

20 R	7.9	343.6
10	7.5	344.0
C	6.8	344.7
10	6.3	345.2
20 L	6.0	345.5

191+00

20 L	5.3	346.2
10	5.5	346.0
C	6.5	345.0
10	6.3	345.2
20 R	6.9	344.6

351.50

45

190+50

20 R	6.3	345.2
10	5.7	345.8
C	5.6	345.9
10	5.6	345.9
20 L	5.1	346.4

190+00

20 L	7.2	344.3
10	6.8	344.7
C	6.8	344.7
10	7.1	344.4
20 R	7.2	344.3

189+50

20 R	9.5	342.0
10	9.4	342.1
C	8.6	342.9
10	8.5	343.0
20 L	9.0	342.5

189+00

20 L	11.6	339.9
10	11.6	339.9
C	11.6	339.9
10	11.6	339.9
20 R	12.1	339.4
	7.28	344.22 344.22

Bm. Pt

		351.50		
TP	2.78	342.30	11.98	339.52 ✓
		188+50		
20 R			5.8	336.5
10			6.2	336.1
C			6.2	336.1
10			6.1	336.2
20 L			6.3	336.0
		188+25		
30 L			7.6	334.7
20			7.9	334.4
10			8.7	333.6
C			8.8	333.5
10			9.2	333.1
20			9.5	332.9
40 R			11.3	331.0
		188+10		
40 R			16.0	326.3
20			14.3	328.0
10			14.0	328.3
C			13.7	328.6
10			12.7	329.6
20			11.1	331.2
30 L			10.1	332.2

342.30

188+00

30 L	10.7	331.6
20	10.9	331.4
10	9.5	332.8
C	10.7	332.1
10	11.4	330.5
20	13.0	329.3
30	13.6	328.7
40 R	13.4	328.9
	12.6	329.7
	187+75	
30 R	7.6	334.7
20	7.4	334.9
10	7.3	335.0
C	7.1	335.2
10	6.5	335.8
20	5.8	336.5
30 L	5.7	336.6
	187+50	
20 L	6.3	337.0
10	6.9	336.4
C	6.3	336.0
10	6.5	335.8
20 R	6.8	335.5

342.30

186+91.77 PC

20 R		8.1	334.2
10		7.5	334.8
C		6.9	335.4
10		7.0	335.3
20 L		6.6	335.7

186+50

20 L		6.1	336.2
10		6.8	335.5
C		7.0	335.3
10		7.3	335.0
20 R		7.5	334.8

186+00

20 R		6.5	335.8
10		6.1	336.2
C		5.9	336.4
10		6.0	336.3
20 L		5.9	336.4

185+50

20 L		4.8	337.5
10		5.0	337.3
C		5.3	337.0
10		5.1	337.2
20 R		4.8	337.5

342.30

185+00

20 R		4.2	338.1
10		3.5	338.8
C		3.6	338.7
10		4.3	338.0
20 L		4.0	338.3

184+50

20 L		1.8	340.5
10		1.7	341.1
C		1.5	340.8
10		2.6	339.7
20 R		2.4	339.5
T.P.	6.57	347.36	1.51	340.79

184+00

20 R		5.8	341.6
10		5.1	342.3
C		5.1	342.3
10		5.8	341.6
20 L		6.8	340.6

183+50

20 L		5.9	341.5
10		5.7	341.7
C		5.4	342.0
10		5.3	342.1
20 R		5.7	342.4

347.36

183+00

20R		5.7	341.7
10		0.5	341.9
C		6.1	341.3
10		6.6	340.8
20L		6.5	340.9

182+50

20L		6.3	341.1
10		6.2	341.2
C		6.3	341.1
10		6.7	340.7
20R		6.5	340.9

182+00

20R		7.1	340.0
10		7.3	340.1
C		7.2	340.2
10		7.0	340.4
20L		6.8	340.6

181+50

20L		6.1	341.0
10		5.9	341.5
C		5.9	341.5
10		6.1	341.0
20R		6.7	340.7

347.36

181+00

20R		5.8	341.6
10		5.8	341.6
C		5.8	341.6
10		6.1	341.3
20L		5.8	341.6

180+50

20L		5.9	342.5
10		5.0	342.4
C		5.0	342.4
10		5.0	342.4
20R		5.2	342.2

180+00

20R		4.1	343.3
10		4.1	343.3
C		4.0	343.4
10		4.0	343.4
20L		3.9	343.5

179+50

20L		2.3	345.1
10		2.7	344.7
C		3.0	344.4
10		3.0	344.4
20R		3.2	344.2

		347.36		
		179+00		
20R			3.7	343.7
10			3.6	343.8
C			3.3	344.1
10			3.1	344.3
20L			2.7	344.7
		178+50		
20L			2.3	345.1
10			2.2	345.2
C			2.1	345.3
10			1.7	345.7
20R			1.5	345.9
T.P.	1/10.90	357.81	0.45	346.91 ✓
		178+00		
20R			9.6	348.2
10			9.7	348.1
C			9.6	348.2
10			10.0	347.8
20L			10.3	347.5
		177+50		
20L			7.0	350.8
10			6.3	351.5
C			5.4	352.4
10			4.0	353.8
20R			3.0	354.8

357.81

177+35

20R		3.6	355.2
10		3.0	354.8
C		2.9	353.9
10		5.2	352.6
20L		6.1	351.7
	177+00		
20L		5.7	352.1
10		5.5	352.3
C		4.9	352.9
10		4.6	353.2
20R		4.3	353.5
	176+50		
20R		6.0	351.8
10		6.1	351.7
C		6.2	351.6
10		6.2	351.6
20L		6.6	351.2
	176+00		
20L		7.0	350.8
10		6.9	350.9
C		6.8	351.0
10		6.6	351.2
20R		6.0	351.8

		357.81			
		175+50			
20R			6.0	351.8	
10			6.7	351.6	
℄			6.5	351.4	
10			6.6	351.2	
20L			6.7	351.1	
		175+00			
20L			5.7	352.1	
10			6.5	351.4	
℄			6.2	351.6	
10			5.9	351.9	
20R			5.7	352.1	
		174+50			
20R			5.5	352.3	
10			5.8	352.0	
℄			5.7	352.1	
10			4.9	352.9	
20L			4.7	353.1	
		174+00			
20L			5.9	351.9	
10			5.5	352.3	
℄			5.4	352.4	
10			5.2	352.6	
20R			5.1	352.7	
T.P.	5.1 ✓	357.66	5.27	352.54	✓

	357.66		
	173+50		
20R	4.8	352.9	
10	5.0	352.7	
℄	5.3	352.4	
10	5.3	352.4	
20L	5.5	352.2	
	173+00		
20L	5.9	351.8	
10	5.7	352.0	
℄	5.5	352.2	
10	5.3	352.4	
20R	5.2	352.5	
	172+50		
20R	5.2	352.5	
10	5.6	352.1	
℄	5.7	352.0	
10	5.9	351.8	
20L	5.9	351.8	
	5.37	352.31 ✓	352.30 BM [illegible] 172+128
	172+00		
20L	5.7	352.0	
10	5.7	352.0	
℄	5.5	352.2	
10	5.4	352.3	
20R	5.3	352.4	

		357.6		
		171+50		
20 R			5.8	351.9
10			6.0	351.7
C			6.1	351.6
10			6.2	351.5
20 L			6.5	351.2
		171+00		
20 L			7.4	350.3
10			6.8	350.9
C			6.7	351.0
10			6.6	351.1
20 R			6.5	351.2
		170+50		
20 R			F1	349.6
10			F2	349.5
C			F3	349.4
10			8.3	349.4
20 L			8.4	349.3
		170+00		
20 L			9.5	348.3
10			9.2	348.5
C			9.0	348.7
10			9.0	348.7
20 R			9.0	348.7
T.P	5.160	354.52	8.75	345.77

	354.51		
	169+50		
20 R		6.5	348.0
10		6.6	347.9
C		6.7	347.8
10		6.6	347.9
20 L		6.5	348.0
	169+00		
20 L		6.7	347.8
10		6.8	347.7
C		7.0	347.5
10		7.0	347.5
20 R		7.0	347.5
	168+50		
20 R		7.7	346.8
10		7.3	347.2
C		7.0	347.5
10		6.7	347.8
20 L		6.3	348.2
	168+00		
20 L		5.2	348.9
10		6.2	348.3
C		6.6	347.9
10		6.9	347.6
20 R		7.3	347.2

354.5'

167+50

20R	7.7	346.8
10	7.1	347.1
C	6.8	347.7
10	6.4	348.1
20L	6.0	348.5

167+00

20L	7.8	346.7
10	8.1	346.4
C	8.2	346.3
10	7.8	346.7
20R	8.0	346.5

166+50

20R	10.2	344.3
10	9.8	344.7
C	9.5	345.0
10	9.0	345.5
20L	8.6	345.9

166+00

20L	10.2	344.3
10	9.9	344.6
C	10.3	344.2
10	10.4	344.1
20R	10.6	343.9

354.5'

165+50

20R	12.2	342.3
10	12.0	342.5
C	11.8	342.7
10	12.1	342.4
20L	11.8	342.7

165+32

30L	12.7	341.8
20	12.9	341.6
10	12.7	341.8
C	12.9	341.6
10	12.8	341.7
20	12.2	342.3
30R	12.0	342.5

165+00

30R	10.1	344.4
10	10.1	344.4
C	10.3	344.2
10	10.3	344.2
20L	10.7	343.8

164+50

20L	8.5	346.0
10	8.2	346.3
C	7.9	346.6
10	8.1	346.4
20R	7.9	346.6

		354.5'		
TP	9.15	355.9'	7.75	346.7'
		164+00		
20R			8.5	347.4
10			8.8	347.1
C			8.7	347.2
10			9.0	346.9
20L			9.5	346.4
		163+50		
20L			8.3	347.6
10			8.2	347.7
C			8.0	347.9
10			7.9	348.0
20R			7.8	348.1
		163+00		
20R			7.2	348.7
10			7.2	348.7
C			7.2	348.7
10			7.0	348.9
20L			7.2	348.7
		162+50		
20L			7.3	348.6
10			7.0	348.9
C			6.9	349.0
10			6.7	349.2
20R			6.7	349.2

35591

	162+00	
20R	5.6	350.3
10	5.8	350.1
C	6.0	349.9
10	6.0	349.9
20L	5.8	350.1
	161+50	
20L	6.7	349.2
10	6.4	349.5
C	6.2	349.7
10	5.8	350.1
20R	5.4	350.5
	161+00	
20R	5.1	350.8
10	5.5	350.4
C	6.2	349.7
10	6.9	350.0
20L	6.6	349.3
	160+50	
20L	7.1	348.8
10	7.0	348.9
C	6.6	349.3
10	6.0	349.9
20R	5.6	350.3

		355.94'		
		160+00		
20R			6.8	349.1
10			7.0	348.9
C			7.3	348.6
10			7.1	348.8
20L			6.9	349.0
		159+50		
20L			7.2	348.7
10			7.2	348.7
C			7.1	348.8
10			6.9	349.0
20R			6.8	349.1
		159+00		
20R			5.8	350.1
10			5.8	350.1
C			5.2	350.7
10			6.3	349.6
20L			6.3	349.6
T.P.	7.63	357.50	6.04	349.87 ✓
		158+50		
20L			6.5	351.0
10			6.4	351.1
C			6.7	350.8
10			7.1	350.4
20R			7.1	350.4

		357.50			
		158+00			
20R			6.3	351.2	
10			6.2	351.3	
C			6.2	351.3	
10			6.0	351.5	
20L			5.9	351.6	
		157+50			
20L			6.1	351.4	
10			5.9	351.6	
C			5.6	351.9	
10			5.7	351.8	
20R			5.9	351.6	
		157+00			
20R			5.3	352.2	
10			5.1	352.4	
C			5.3	352.2	
10			5.5	352.0	
20L			5.4	352.1	
		156+50			
20L			4.5	353.0	
10			4.4	353.1	
C			4.3	353.2	
10			4.4	353.1	
20R			4.7	352.8	
T.P	7.22	362.04	2.60	354.90 ✓	354.82 BM
					Sta. 155+00

362.04

156+00

20R		8.3	353.7
10		8.3	353.7
C		8.4	353.6
10		8.5	353.5
20L		8.5	353.5
	155+50		
20L		8.0	354.0
10		7.9	354.1
C		7.9	354.1
10		7.9	354.1
20R		7.9	354.1
	155+00		
20R		7.3	354.7
10		7.3	354.7
C		7.3	354.7
10		7.2	354.8
20L		7.2	354.8
	154+50		
20L		6.5	355.5
10		6.6	355.4
C		6.7	355.3
10		6.8	355.2
20R		6.7	355.3

362.04

154+00

20R		6.7	356.3
10		6.5	356.5
C		6.4	356.6
10		6.8	356.2
20L		6.8	356.2
T.P.	12.00	367.44	6.60	355.44
	153+50		
20L		10.1	357.3
10		10.1	357.3
C		10.1	357.3
10		10.0	357.4
20R		9.7	357.7
	153+00		
20R		5.6	358.8
10		5.7	358.7
C		5.6	358.8
10		5.4	359.0
20L		5.2	359.2
	152+50		
20L		6.3	361.1
10		6.3	361.1
C		6.5	360.9
10		6.8	360.6
20R		7.0	360.4

367.44

	152+00		
20 R		5.0	362.4
10		4.9	362.5
C		4.7	362.7
10		4.4	363.0
20 L		4.2	363.4
	151+50		
20 L		3.5	363.9
10		4.0	363.4
C		4.2	363.2
10		4.3	363.1
20 R		4.6	362.8
	151+00		
20 R		4.8	362.6
10		4.6	362.8
C		4.4	363.0
10		3.8	363.6
20 L		3.6	363.8
	150+50		
20 L		3.1	364.3
10		3.5	363.9
C		4.0	363.4
10		4.2	363.2
20 R		4.3	363.1

367.44

	150+00		
20 R		3.6	363.8
10		3.5	363.9
C		3.6	363.8
10		3.7	364.0
20 L		3.7	364.2
	149+50		
20 L		2.0	365.4
10		2.1	365.3
C		2.4	365.0
10		2.7	364.7
20 R		2.9	364.5
	149+00		
20 R		3.9	363.5
10		3.5	363.9
C		3.3	364.1
10		2.8	364.6
20 L		2.6	364.8
T.P. 019	364.55	3.08	364.36 ✓
	148+50		
20 L		3.5	361.1
10		3.8	360.8
C		4.1	360.5
10		4.5	360.1
20 R		4.9	359.7

		364.55		
		148+00		
20 R			8.6	356.0
10			8.5	356.1
C			8.4	356.2
10			8.1	356.5
20 L			8.0	356.6
		147+50		
20 L			10.6	354.0
10			10.7	353.9
C			10.5	354.1
10			10.6	354.0
20 R			10.5	354.1
		147+00		
20 R			11.5	353.1
10			11.8	352.8
C			11.9	352.7
10			11.9	352.7
20 L			11.9	352.7
T.P	2.79	355.48	11.86	352.69
		146+50		
20 L			4.4	351.1
10			4.3	351.2
C			4.1	351.4
10			3.9	351.6
20 R			3.7	351.8

355.48

57

146+00

20 R	4.7	350.8	
10	4.9	350.6	
C	5.1	350.4	
10	5.2	350.3	
20 L	5.3	350.2	
145+76.42 EC			
20 L	5.5	350.0	
10	5.5	350.0	
C	5.4	350.1	
10	5.2	350.3	
20 R	5.1	350.4	
145+50			
20 R	5.3	350.2	
10	5.6	349.9	
C	5.7	349.8	
10	5.8	349.7	
20 L	6.0	349.5	
145+00			
20 L	6.3	349.2	
10	6.1	349.4	
C	6.0	349.5	
10	5.2	350.3	
20 R	5.0	350.5	

	355.48			
	1+44+50			
20R			5.6	349.9
10			5.7	349.8
C			6.3	349.2
10			6.5	349.0
20L			6.5	349.0
	1+44+00			
20L			6.8	348.7
10			6.5	349.0
C			6.3	349.2
10			6.2	349.3
20R			6.0	349.5
	1+43+50			
20R			6.0	349.5
10			5.9	349.6
C			5.7	349.8
10			5.7	349.8
20L			5.7	349.8
	355.47		5.90	349.58 / 349.57
	1+43+00			BM PI
20L			7.3	348.2
10			6.8	348.7
C			6.9	348.6
10			6.6	348.9
20R			6.5	349.0

	355.47			
	1+42+50			
20R			7.3	348.2
10			7.9	347.6
C			8.4	346.6
10			8.0	346.9
20L			8.7	346.8
	1+42+50			
20L			6.7	348.8
10			6.9	348.6
C			6.8	348.7
10			7.0	348.5
20R			7.5	348.0
	1+42+00			
20R			5.8	349.7
10			5.8	349.7
C			6.0	349.5
10			6.1	349.4
20L			6.2	349.3
T.P. 803		358.61	5.79	349.68
	1+41+50			
20L			8.6	350.0
10			8.4	350.2
C			8.2	350.4
10			8.0	350.6
20R			8.8	349.8

358.61

141+33.6 PC

20 R		P.6	350.0
10		8.5	350.1
C		P.6	350.2
10		P.6	350.2
20 L		P.7	350.4
	141+00		
20 L		P.7	350.4
10		7.7	350.9
C		7.7	350.9
10		7.9	350.7
20 R		7.9	350.7
	140+50		
20 R		7.1	351.5
10		7.1	351.5
C		7.2	351.4
10		6.7	351.9
20 L		6.5	352.1
	140+00		
20 L		6.2	352.4
10		6.1	352.5
C		5.9	352.7
10		6.1	352.5
20 R		6.1	352.5

358.61

139+50

20 R		4.4	354.2
10		4.3	354.3
C		4.3	354.3
10		4.6	354.0
20 L		4.6	354.0
	139+00		
20 L		3.7	355.4
10		3.7	355.4
C		3.3	355.3
10		2.9	355.7
20 R		2.7	355.9
	138+50		
20 R		1.7	357.4
10		1.7	357.4
C		1.5	357.1
10		1.5	357.1
20 L		1.4	357.2
TP	10.87	368.69	0.79 357.82 ✓
	138+00		
20 L		10.6	358.1
10		10.5	358.2
C		10.4	358.3
10		10.1	358.6
20 R		9.9	358.8

	368.69		
	137+50		
20R		8.8	359.9
10		8.9	359.8
C		9.2	359.5
10		9.4	359.3
20L		9.5	359.2
	137+00		
20L		8.7	360.0
10		8.2	360.5
C		8.1	360.6
10		7.8	360.9
20R		7.5	361.2
	136+50		
20R		6.8	361.9
10		7.0	361.7
C		7.2	361.5
10		7.4	361.3
20L		7.6	361.1
	136+00		
20L		6.0	362.7
10		5.9	362.8
C		5.7	363.0
10		5.3	363.4
20R		5.1	363.6

	368.69			
	135+50			
20R		4.1	364.6	
10		4.4	364.3	
C		4.8	363.9	
10		4.9	363.8	
20L		5.0	363.7	
		3.30	365.39 ✓	365.39 BM 135+05
	135+00			
20L		3.3	365.4	
10		3.1	365.6	
C		3.2	365.5	
10		3.2	365.5	
20R		2.8	365.9	
	134+50			
20R		2.7	366.0	
10		2.8	365.9	
C		3.3	365.4	
10		3.5	365.2	
20L		3.8	364.9	
	134+00			
20L		5.2	363.5	
10		5.0	363.7	
C		4.6	364.1	
10		4.1	364.6	
20R		3.5	365.2	

36 F.69

		13375		
20R			3.7	365.0
10			4.3	364.4
C			4.7	364.0
10			5.3	363.4
20L			5.5	363.2
T.P.	6.81	370.89	7.61	364.08
		13300		
20L			8.0	362.9
10			7.7	363.2
C			7.4	363.5
10			6.9	364.0
20R			6.6	364.3
		13275		
20R			6.3	364.6
10			6.6	364.3
C			7.0	363.9
10			7.1	363.8
20L			7.4	363.5
		13200		
20L			7.2	363.7
10			6.8	364.1
C			5.9	365.0
10			5.4	365.5
20R			5.4	365.5

370.89

61

13175

20R	4.6	366.3
10	5.0	365.9
C	5.5	365.4
10	5.8	365.1
20L	6.1	364.8
13100		
20L	5.4	365.5
10	5.0	365.9
C	4.7	366.2
10	4.6	366.3
20R	4.2	366.7
13050		
20R	5.8	365.3
10	5.7	365.2
C	6.2	364.7
10	6.7	364.2
20L	6.9	364.0
13000		
20L	7.7	363.2
10	7.5	363.4
C	7.3	363.6
10	7.0	363.9
20R	6.6	364.3

370.89

129+50

20R	7.1	363.8
10	7.4	363.5
C	7.9	363.0
10	8.2	362.7
20L	8.4	362.5
129+00		
20L	8.0	362.9
10	7.9	363.0
C	7.6	363.3
10	7.3	363.6
20R	7.0	363.9
128+50		
20R	6.3	364.6
10	6.5	364.4
C	6.7	364.2
10	6.7	364.2
20L	7.1	363.8
128+00		
20L	6.3	364.6
10	6.0	364.9
C	5.7	365.2
10	5.3	365.6
20R	5.1	365.8

370.89

127+50

82

20R	3.5	367.4
10	3.8	367.1
C	4.0	366.9
10	4.2	366.7
20L	4.5	366.4
127+00		
20L	2.7	368.2
10	2.4	368.5
C	2.0	368.9
10	1.6	369.3
20R	1.4	369.5
TP. 12.05 381.09	1.85	369.04 ✓
126+50		
20R	9.0	372.1
10	9.5	371.6
C	10.1	371.0
10	10.6	370.5
20L	11.0	370.1
126+00		
20L	10.3	370.8
20	12.0	369.1
14	8.7	372.4
10	8.6	372.5
C	8.0	373.1
10	7.8	373.3
20R	7.5	373.6

381.09

1+25+50

20 R		5.7	375.4
10		5.7	375.4
C		6.0	375.1
10		6.4	374.7
14		9.7	371.4
17		7.1	374.0
20 L		6.6	374.5
	1+25+00		
20 L		5.3	375.8
10		7.9	373.2
10		4.4	376.7
C		4.1	377.0
10		3.8	377.3
20 R		3.5	377.6
	1+24+00		
20 R		2.2	378.9
10		2.7	378.4
C		3.2	377.9
6		3.5	377.6
10		5.9	375.2
18		4.0	377.1
20 L		4.0	377.1

381.09

1+24+00

20 L		2.1	379.0
16		2.2	378.9
13		4.3	376.8
10		3.9	377.2
6		2.1	379.0
C		2.2	378.9
10		2.0	379.1
20 R		1.8	379.3
	1+23+50		
20 R		0.9	380.2
10		1.0	380.1
C		1.3	379.8
6		1.4	379.7
20 L		1.4	379.7
T.P 11+27	392.01	0.35	380.74
	1+23+00		
20 L		11.5	380.5
10		11.5	380.5
C		11.4	380.6
10		11.3	380.7
20 R		11.2	380.8

392.01

	122+50		
20R		10.2	381.8
10		10.1	381.9
C		10.2	381.8
10		10.6	381.4
20L		11.0	381.0
	122+00		
20L		10.4	381.6
10		10.0	382.0
C		10.0	382.0
10		9.8	382.2
20R		9.5	382.5
	121+50		
20R		7.9	384.1
10		8.4	383.6
C		8.8	383.2
10		9.2	382.8
20L		9.2	382.8
	121+00		
20L		7.2	384.8
10		7.0	385.0
C		6.7	385.3
10		6.2	385.8
20R		5.7	386.3

392.01

	120+50		
20R		4.5	387.5
10		4.9	387.1
C		5.5	386.5
10		6.0	386.0
20L		6.6	385.4
	120+21		
20L		7.3	384.7
10		7.6	384.4
C		7.4	384.6
10		6.8	385.2
20R		6.2	385.8
	120+00		
20R		5.8	386.2
10		5.8	386.2
C		6.0	386.0
10		6.3	385.7
20L		6.3	385.7
	119+50		
20L		4.3	387.7
10		4.0	388.0
C		3.4	388.6
10		3.4	388.6
20R		3.7	388.3

392.01

		119+00		
20 R			1.2	390.8
10			1.2	390.8
C			1.5	390.5
10			1.2	390.8
20 L			1.3	390.7
T.P.	12.01	403.61	0.41	391.60
		118+50		
20 L			10.7	392.9
10			10.7	392.9
C			10.6	393.0
10			10.3	393.3
20 R			10.2	393.4
		118+00		
20 R			8.2	395.4
10			8.0	395.6
C			8.5	395.1
10			8.6	395.0
20 L			8.9	394.7
		117+50		
20 L			7.8	395.8
10			7.5	396.1
C			7.2	396.4
10			6.8	396.8
20 R			6.7	396.9

403.61

65

	117+00		
20 R		5.6	398.0
10		5.8	397.8
C		6.1	397.2
10		6.7	396.9
20 L		7.3	396.3
	116+50		
20 L		5.6	398.0
10		5.5	398.1
C		5.1	398.5
10		4.6	399.0
20 R		4.9	398.7
	116+00		
20 R		3.0	400.6
10		3.0	400.6
C		3.3	400.3
10		3.1	400.2
20 L		3.8	399.8
	115+50		
20 L		2.9	400.7
10		2.7	400.9
C		2.7	400.9
10		2.5	401.1
20 R		2.5	401.1

403.61

115+00

20R			0.6	403.0
10			1.4	402.2
C			2.5	401.1
10			2.5	401.1
20L			2.6	401.0
T.P.	10.43	413.59	0.25	403.36

114+50

20L			11.2	402.4
10			10.5	403.1
C			10.4	403.2
10			10.3	403.3
20R			9.9	403.7

114+00

20R			7.4	406.2
10			7.6	406.0
C			7.8	405.8
10			8.4	405.2
20L			9.0	404.6

113+50

20L			9.2	404.4
10			6.6	407.0
C			5.4	408.2
10			5.8	407.8
20R			4.7	408.9

413.59

113+30

66

20R			8.6	405.0
10			9.2	404.4
C			10.0	403.6
10			11.2	402.4
20L			11.8	401.8

113+00

20L			10.8	402.8
10			10.6	403.0
C			10.0	403.6
10			9.8	403.8
20R			9.3	404.3

112+50

20R			7.4	406.2
10			7.7	405.9
C			7.8	405.8
10			7.9	405.7
20L			8.4	405.2

112+00

20L			6.9	406.7
10			6.4	407.2
C			5.5	408.1
10			5.2	408.4
20R			5.0	408.6

413.59

111+50

20R			2.1	411.5
10			2.6	411.0
C			3.2	410.4
10			3.7	409.9
20L			4.2	409.4
		111+00		
20L			2.2	411.4
10			1.5	412.1
C			1.0	412.6
10			0.1	413.5
20R			0.0	413.6
T.P	11.69	425.24	0.04	413.55 ✓
		110+50		
20R			9.0	416.2
10			9.5	415.7
C			10.2	415.0
10			10.8	414.4
20L			11.1	414.1
		110+00		
20L			9.3	415.9
10			8.5	416.7
C			8.1	417.1
10			7.3	417.9
20R			6.4	418.8
		425.34	6.90	418.34 418.44 Hub

109+05

425.34

109+50

20R			5.0	420.3
10			5.5	419.8
C			6.0	419.3
10			6.9	418.4
20L			7.6	417.7
		109+00		
20L			2.7	422.6
10			3.1	422.2
C			3.6	421.7
10			4.5	420.8
20R			5.3	420.0
		108+50		
20R			0.0	425.3
10			0.7	424.6
C			1.8	423.5
10			2.5	422.8
20L			3.2	422.1
T.P	11.94	436.76	0.52	436.82 ✓
		108+00		
20L			12.8	424.0
10			11.9	424.9
C			10.9	425.9
10			10.3	426.5
20R			9.4	427.4

436.72

10+50

20R		5.9	430.9
10		6.8	430.0
C		7.8	429.0
10		8.7	428.1
20L		9.6	427.2

10+00

20L		7.2	429.6
10		6.1	430.8
C		5.2	431.6
10		4.5	432.3
20R		3.8	433.0

10+50

20R		0.0	436.8
10		0.5	436.3
C		2.3	434.5
10		4.1	432.7
20L		4.7	432.1
T.P.	9.35	444.66	435.31

11+00

20L		10.5	434.2
10		9.9	434.8
C		9.4	435.3
10		8.5	436.2
20R		7.8	436.9

444.66

10+50

20R		5.9	438.8
10		6.6	438.1
C		7.2	437.3
10		8.3	436.4
20L		8.9	435.8

10+00

20L		7.2	437.5
10		6.5	438.2
C		5.7	439.0
10		4.9	439.8
20R		4.3	440.4

9+50

20R		2.7	442.0
10		3.5	441.2
C		4.4	440.3
10		5.1	439.6
20L		5.6	439.2

9+00

20L		5.2	439.5
10		4.8	439.9
C		4.3	440.4
10		3.5	441.2
20R		3.7	441.0

Jul 4.66

10 3+50

20 R			5.4	439.3
10			5.6	439.1
C			6.0	438.7
10			6.2	438.5
20 L			6.5	438.2
		10 3+00		
20 L			8.5	436.2
10			8.0	436.7
C			7.6	437.1
10			7.7	437.0
20 R			7.1	437.6
		10 2+50		
20 R			10.3	434.4
10			10.4	434.3
C			10.5	434.2
10			10.3	434.4
20 L			10.0	434.7
TP	0.16	433.12	11.70	432.96 ✓
		10 2+00		
20 L			1.6	431.5
10			1.8	431.3
C			2.1	431.0
10			2.0	431.1
20 R			1.9	431.2

433.12

10 1+50

20 R		7.1	426.0
10		6.5	426.5
C		6.1	427.0
10		5.0	428.1
20 L		4.6	428.5
	10 1+00		
20 L		8.3	424.8
10		8.9	424.2
C		9.5	423.6
10		9.9	423.2
20 R		10.2	422.9
T.P.	1.77 423.26	11.63	421.49 ✓
	10 0+50		
20 R		3.8	419.5
10		3.2	420.1
C		2.3	421.0
10		1.8	421.5
20 L		1.1	422.2
	10 0+00		
20 L		3.0	420.3
10		3.4	419.4
C		4.8	418.5
10		5.3	418.0
20 R		6.1	417.2

4-23-26

99+50

20 R	7.6	415.7
10	7.1	416.2
C	6.5	416.8
10	6.0	417.3
20 L	5.1	418.2

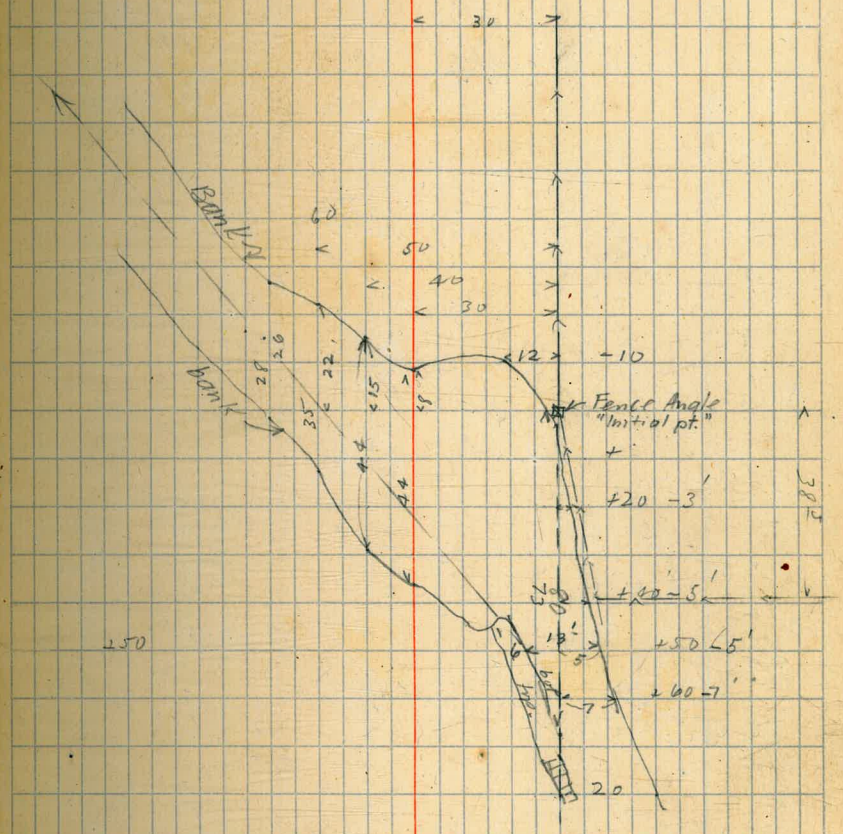
99+32± - on City Line

20 L	6.3	417.0
10	6.7	416.6
C	7.3	416.0
10	7.3	416.0
20 R	7.6	415.7
	7.2	416.00 / 416.00

Hub City Line

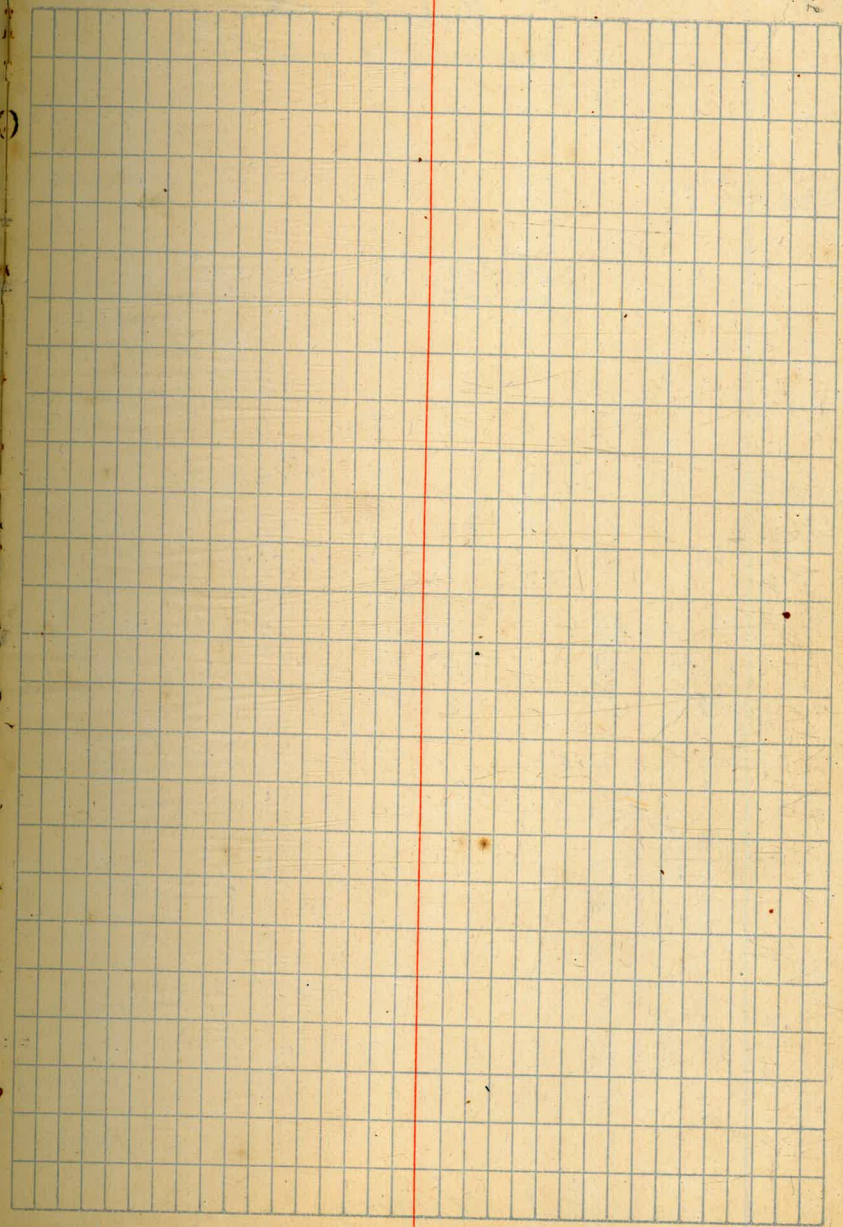
Bridge Site at Sorrento at Bakers "Corral"

Average depth of Wash 8'. (uniform)



Location of Wash out Ditch West of Subway near Pacific Beach

Station from W. R.O.W. of S.F. Ry	Offset from S. edge of Pavement to Wedge of ditch	Width
0		
1	11	0 7
2	3	17
3	8	17
4	8	10
5	6.	25.
+25	2.	18
6	4.	29.
7	3	23
+50	4.	27.
8	6.	18.
9	3.	20.
10	4	14.
11	3.	14.
12	7.	12.



10/20/20 Gregory.

Relocation of Roosevelt Memorial Drive from S. End of Biological Paving to S.L. of Pueblo Lot 1286

Pavement 18' wide

42+29.34 E.C.

Δ 20°30'

r = 735'

39+66.36 P.C.

This Tangent is 5' West of Tangent shown in Book 1010-24 stations 48+74.64 to 88+44.

0+00 = S. End of Biological Paving

61+42.79

59+97.29 = S. End of Contract ←

59+28.29 EC.

Δ 39°34
r = 160'
l = 110.49

58+17.8 P.C.

56+70.50 E.C.

Δ 38°48'30
r = 350
l = 237.07

54+33.43 P.C.

49+96.98 EC.

Δ 50°02'30
r = 780
l = 681.25

43+15.73 P.C.

145.5 Tie hub 90 approx 35° Tie hub →

This curve wider by 4.5' at the center

7+23.77 P.R.C.

Δ 12°00
R = 936.88
T = 98.47

9+19.99 PT.

Start 1010 for grades

14+39.88 P.C.

Δ = 20°52'30"
r = 959.66
St = 176.78

Pavement width increases uniformly from 18' at P.T. to 20' at P.C.

Stationing from Biological
70+38.6 = 17+89.52 P.T.

Stationing from Prospect

59+97.29 = End 1st Contract.
70+38.60 = 17+89.52
1041.31
1431.00
353.27
7825.58 = length. Prospect to end of 1st Contract.

Z ← × 23.2 • 20.90 ×

59+97.29
70+38.60
1041.31
18' wide
8330 48
1041 31
18743.58

17+89.52
14+39.88
349.64
19 wide
314676
34964
6643.16

14+39.88
3+58.52
1081.36
353.27
1434.63
20' wide
28692.60

67+61.49 EC. Δ 37°38 R=180'
67+04.60 PI. St = 61.34
66+43.26 PC. Lc = 118.23

426.5 sq ft (excess increase widened on inside)

62+00.24 EC Δ = 15°38 R = 850'
61+85.00 PI. St = 116.69
60+68.31 PC. Lc = 231.93

18743.58
6643.16
28692.60
426.50 extra widening curve
54505.84 sq ft pavement.

51.99

0+00 = N.L. Prospect.

0+92.64 Δ 4°20'30"

2+05.01 P.C.

Δ 7°56'30"
R = 300
T = 20.83
E = 0.72

2+46.59 P.T.

106.68

↑

3+53.27 =
3+58.52 P.C. } Equation

↓

Δ 22°04'
R = 540.71
T = 105.43

5+66.77 P.T.

88.15

6+54.92 P.C.

Δ 24°47'30
R = 159.13
T = 35'

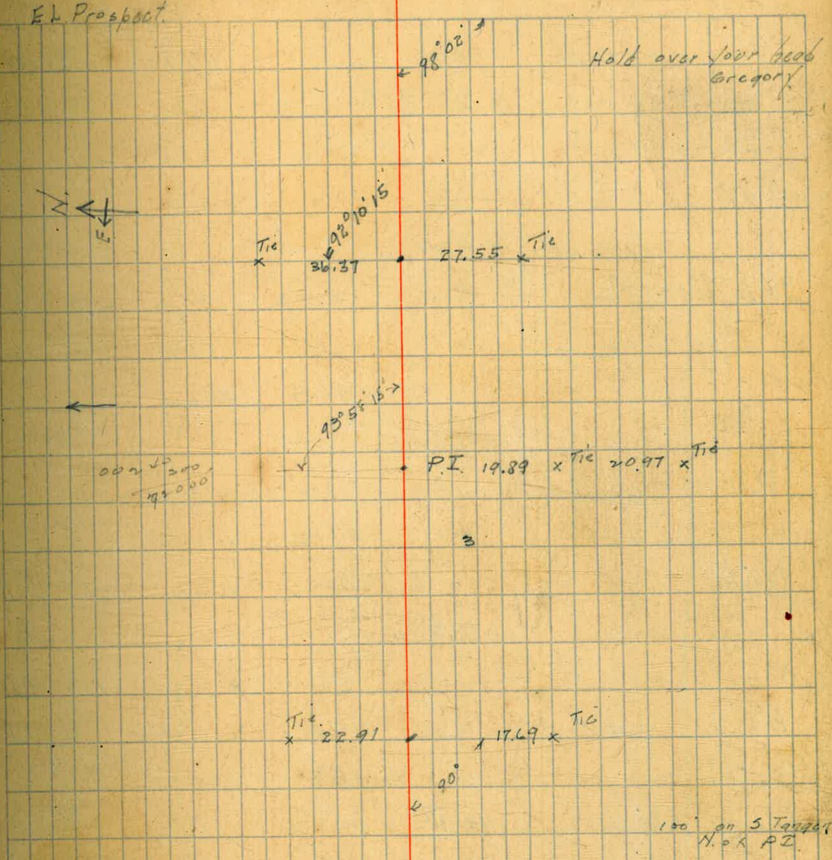
see book 1010 for grades

205.01
135.24
69.77

93.62
42
135.24

55981
5199
61180

E.L. Prospect.



20.83
153.41
174.24

12/22/22 Gregory Moore

Levels on Hawthorn 2nd to 3rd for slopes

	0.46	172.40		171.94	BP N/E 2nd & Hawthorn	
		W.L. 3rd				area
N.L. Hawthorn			1.2	171.2	-1.1	0.9
6' N			1.2	171.2		
		25' W				20.8 sq yds
N.L. Hawthorn			5.4	167.0	-2.3	44.1
17' N			15.8	156.6		
25' "			16.3	156.1		34.9 sq yds
		50' W				
25' N			17.2	155.2	[illegible]	
14' "			17.2	155.2		
N.L.			8.0	164.4	-2.4	31.3
		63' W				13.2 sq yds
N.L.			8.8	163.6	-1.7	23.3
8' N			15.0	157.4		
15' "			16.2	156.2		1.9 sq yds
		90' W				
5' N			8.8	163.6		
N.L.			8.7	163.5	-0.7	0.4
T.P.	0.45	163.02	9.83	162.57		
		100' W				
S.L.			0.45	162.6	-1.3	1.3
6' S			0.4	162.6		
		100.1' W				
15' S			5.4	157.6		

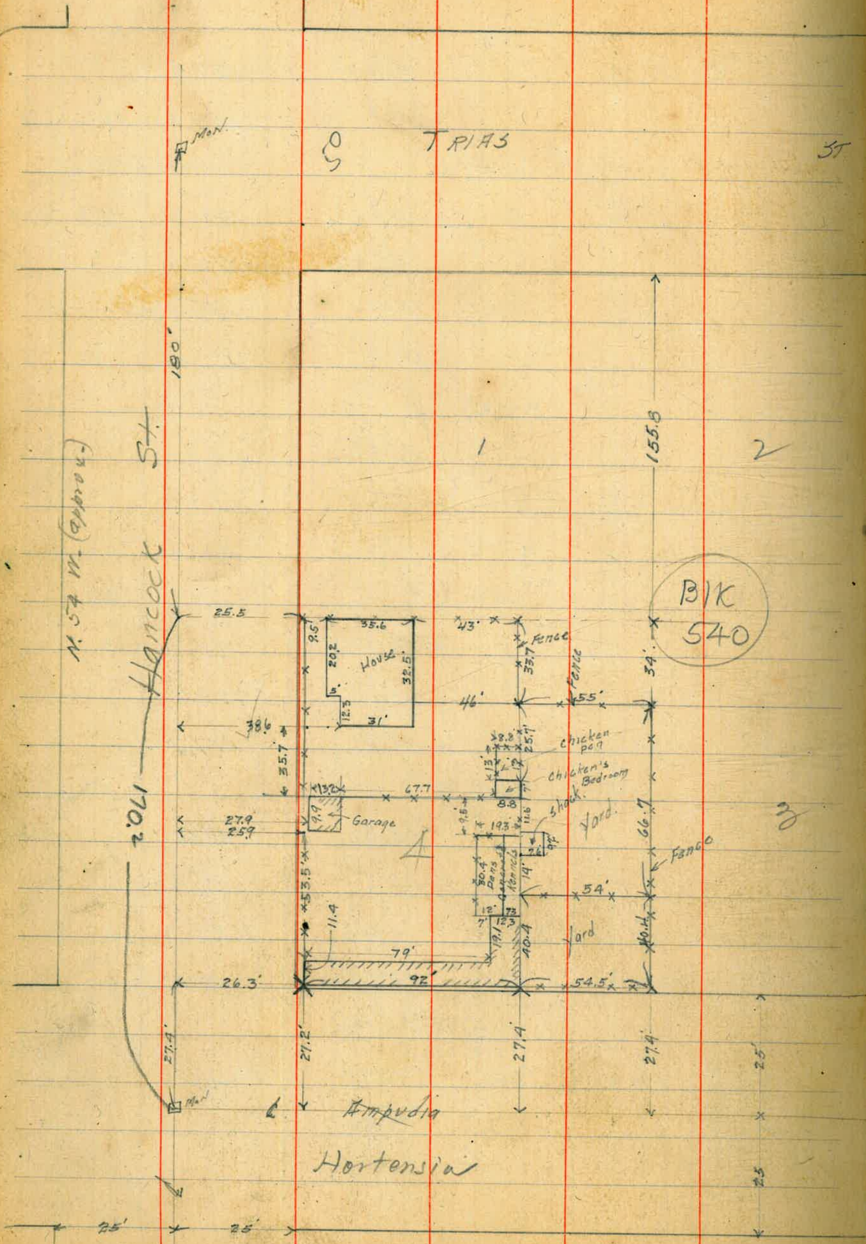
163.02

10' S			5.6	157.4		
S.L.			0.8	162.2	-1.7	7.9
		115' W			10.4 sq yds	
S.L.			0.8	162.2	-1.8	31.4
11' S			8.8	154.2		
16' S			10.2	152.8		
20' S			10.4	152.6		
		135' W				
35' S			15.5	147.5	18.3 sq yds	
24' S			13.7	149.3		
S.L.			0.4	162.6	-2.0	18.0
		155' W			22.4 sq yds	
S.L.			+0.3	163.3	-2.5	56.1
36' S			15.7	147.3		
36' S			15.9	147.1		
		165' W			51.2 sq yds	
36' S			16.3	146.7		
21' S			11.5	151.5		
T.P.	6.78	169.35	0.45	162.57		
S.L. Hawthorn			5.1	164.3	-2.2	36.2
		180' W			10.3 sq yds	
S.L.			2.2	162.2	-0.5	0.7
15' S			9.2	160.2		

12/19/22 Gregory Moore Ellis Shaw

Survey of Buildings City Pound

Being Lot 4 Blk 540 Old Town



155.8
34.0
66.7
40.4
27.4
324.3
25
299.3

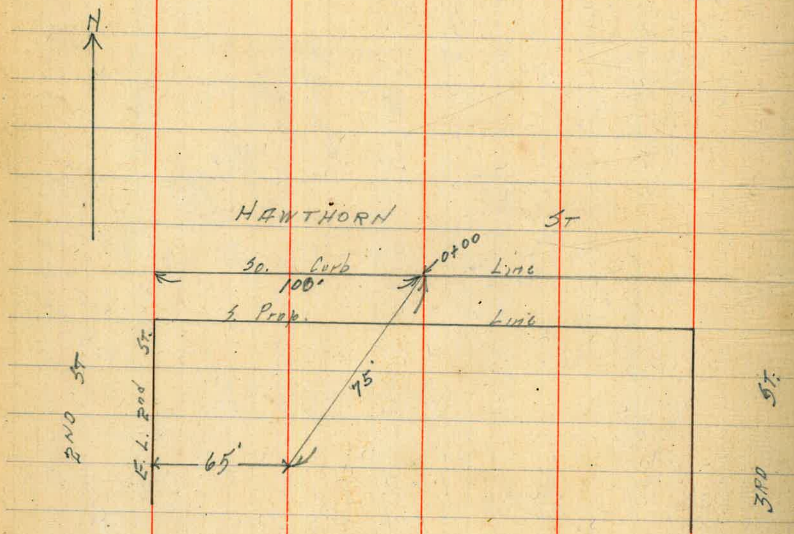
40.4
14.1
9.2
11.6
75.3

53.5
9.9
35.7
99.1
32.5
121.6

40.4
66.7
34
141.1

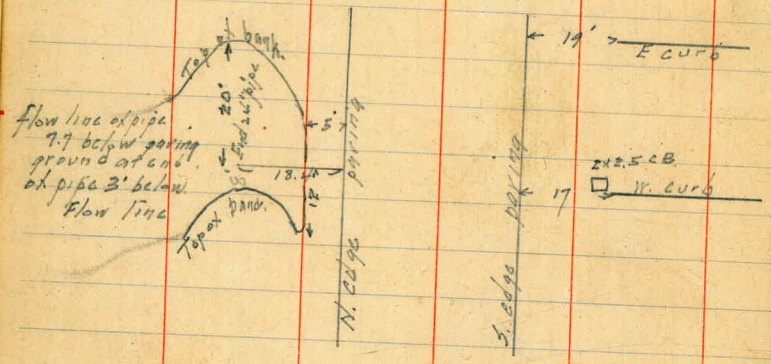
12/19/22 Gregory, Moore, Ellis, Shaw — Levels for Culvert on Hawthorn bet 2nd & 3rd.

	0.42	172.36		171.94	BP 2nd & Hawthorn NE
0+00			10.55	161.81	in gutter
0+00			10.10	162.26	on curb
0+15			9.7	162.7	
T.P.	0.57	160.58	12.35	160.01	
0+32			7.7	152.9	
0+42			8.1	152.5	
0+43			10.5	150.1	
0+75			15.5	145.1	



19' S. of S. Edge of paving on East to End Curb

17' " " " " " West " " "



See Book 1010 Page 52

Location of RR. TRACKS thru BIRD Rock Add & BIRD Rock City

Moore

ON N.L. Colima. E cb of La Jolla Blvd to ℄ RR = 341.85

" " " Midway " " " " " " = 342.0

" " Forward " " " " " " = 305.20

" SL Bird Rock City by the Sea " " " " " " = 300.40

" N'L Bird Rock Ave " " " " " " = 290.50

La Jolla Blvd = 40' between cbs

" " = 30' ℄ paving to cb.

KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P. = 23° 20′ to the R. at Station 542+72.

Ext. in Tab. IV opposite 23° 20′ = 120.87
120.87 ÷ 12 = 10.07. Say a 10° Curve.

Tan. in Tab. IV opp. 23° 20′ = 1183.1
1183.1 ÷ 10 = 118.31.

Tab. V correction for A. 23° 20′ for a 10° Cur. = 0.16
118.31 + 0.16 = 118.47 = corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. 23° 20′ = 23.33° ÷ 10 = 2.3333 = L. C.

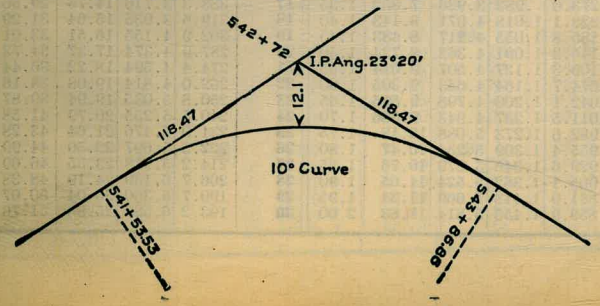
2° 19½′ = def. for sta.	542	I. P. = sta.	542+72
4° 49½′ = " " "	+50	Tan. =	1.18.47
7° 19½′ = " " "	543	B. C. = sta.	541+53.53
9° 49½′ = " " "	+50	L. C. =	2.33.33
11° 40′ = " " "	543+	E. C. = Sta.	543+86.86
	86.86		

100 − 53.53 = 46.47 × 3′ (def. for 1 ft. of 10° Cur.) = 139.41′ = 2° 19½″ = def. for sta. 542.

Def. for 50 ft. = 2° 30′ for a 10° Curve.

Def. for 36.86 ft. = 1° 50½′ for a 10° Curve.

(These tables are published in Field Books of KEUFFEL & ESSER Co., New York, N. Y.)



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.