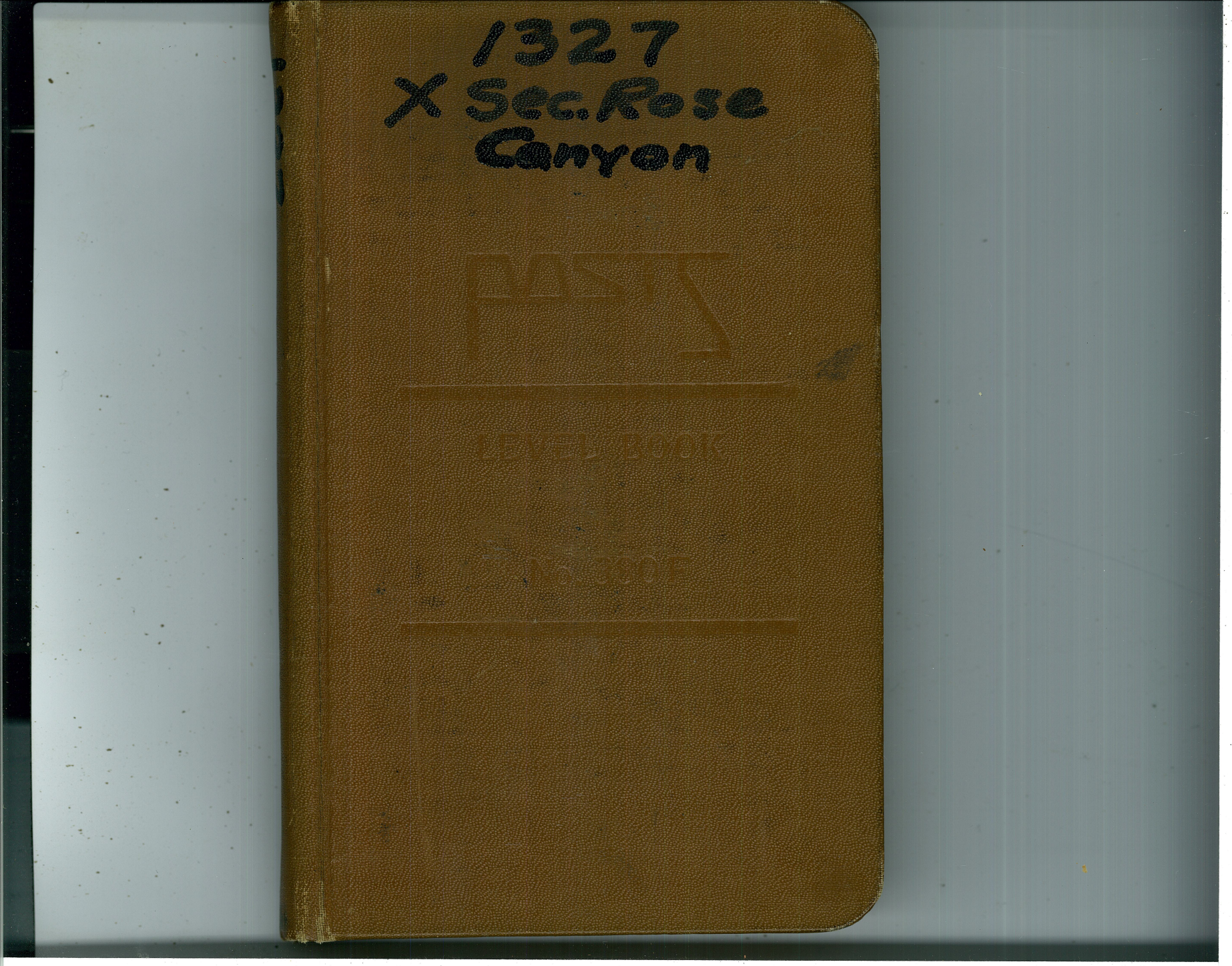
1327
X Sec. Rose
Canyon
LEVEL BOOK

ERROR, PAGE 3
4
3 } CORRECTED ON X-SEC. SHEETS

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.

No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.

No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

3/19/29 Xsec Rose Canyon Road.
Loudon Con't from 1326 Pl.

		H.I.			
Nail Pole BM	4.63	37.56		32.93	
24+00					
60R			12.8	24.8	
50R			13.6	24.0	
29R			13.7	23.9	
25R			12.0	25.6 ✓	
15R			5.5	32.1	
℄			5.1	32.5 ✓	
21L			5.2	32.4	
25L			3.9	33.7 ✓	
32L			0.1	37.5	bottom vert bank 30' high
24+28.16 E.C.					
30L			0.0		bot. vert bank 20' high
25L			3.4	34.2	
20L			4.7	32.9	
℄			4.9	32.7	
15R			5.5	32.1	
25R			11.5	26.1	
28R			13.1	24.5	
50R			13.6	24.0	

24+00 – 43+50
Plotted 3-20-29
T.G.H.

									2
25+00	37.56				26+00	37.56			
60R		12.2	25.4	13.1	50R		12.0	25.6	
50R		13.1	24.5	14.0	33R		13.0	24.6	
28R		12.7	24.9	13.6	25R		9.2	28.4	✓
25R		11.1	26.5	12.0 ✓	15R		2.5	35.1	
14R		4.3	33.3		℄		3.0	34.6	✓
℄		3.9	33.7	✓	17L		3.1	34.5	
18L		4.2	33.4		25L		+4.5	42.1	✓
23L		3.3	34.3		28L		+7.5	45.1	
25L		1.7	35.9	✓	40L		+12.4	50.0	
30L		+2.4	40.0	bot. vert bank 12' high.	26+50				
25+50					40L		+16.0	53.6	
40L		+15.1	52.7		29L		+10.4	48.0	
30L		+11.8	49.4		25L		+1.4	39.0	
27L		+3.6	41.2		19L		2.3	35.3	
25L		+2.8	40.4		℄		2.8	34.8	
18L		1.4	36.2		16R		2.9	34.7	
17L		3.7	33.9		25R		8.2	29.4	
℄		3.3	34.3		60R		12.0	25.6	
14R		3.3	34.3						
22R		8.9	28.7						
25R		9.5	28.1						
32R		13.1	24.5						
40R		13.3	24.3						
50R		12.0	25.6						

27+00		37.56			
60R			10.4	27.2	
29R			8.4	29.2	
25R			6.3	31.3 ✓	
17R			2.6	35.0	
℄			2.6	35.0 ✓	
17L			2.7	34.9	
18L			1.4	36.2	
25L			+3.4	41.0 ✓	
30L			+10.4	48.0	
40L			+15.3	52.9	
T.P.	7.42	42.39	2.59	34.97	
27+50					
40L			+13.1	55.5	
30L			+7.0	49.4	
25L			+2.1	44.5	
16L			4.8	37.6	
15L			6.8	35.6	
℄			6.8	35.6	
19R			7.2	35.2	
35R			12.0	30.4	
36R			13.3	29.1	
55R			15.5	26.9	

28+00		42.39			
50R			14.8	28.6	27.6
34R			12.7	29.7	
25R			10.7	31.7 ✓	
21R			6.1	36.3	
℄			5.9	36.5 ✓	
10L			6.5	35.9	
11L			5.3	37.1	
15L			3.2	39.2	
21L			+10.1	52.5	
25L			+11.8	54.2 ✓	
40L			+19.3	61.7	
28+50					
40L			+22.6	65.0	
25L			+15.6	58.0	
17L			+12.4	54.8	
12L			3.4	39.0	
℄			5.8	36.6	
25R			5.7	36.7	
32R			10.9	31.5	
50R			14.0	28.4	

29+00		42.39							
50R			13.1	29.3		29+70		55.29	
37R			10.6	31.8		70R		27.4	27.9
30R			5.5	36.9		50R		24.4	30.9
25R			5.4	37.0		43R		23.3	32.0
℄			5.3	37.1		35R		17.7	37.6
8L			4.1	38.3		13R		18.1	37.2
TP	13.26	55.29	0.36	42.03		12R		16.5	38.8
10L			3.5	51.8		℄		7.2	48.1
25L			+5.0	60.3		25L		+8.2	63.5
50L			+18.3	73.6		40L		+18.3	73.6
29+40						30+00			
50L			+22.3	77.6		40L		+20.6	75.9
16L			2.0	53.3		25L		+11.2	66.5 ✓
8L			16.7	38.6		9L		+4.3	59.6
℄			17.4	37.9		℄		2.7	52.6 ✓
9R			17.3	(38.3) 38.0		17R		14.2	38.1
10R			18.2	37.1		18R		17.8	37.5
25R			18.2	37.1		25R		17.5	37.8 ✓
33R			18.1	37.2		40R		17.4	37.9
38R			22.1	33.2		50R		23.8	31.5
50R			24.9	30.4		70R		27.0	28.3
70R			26.9	28.4					

30+69 37	5529 B.C.			
70R		26.0	29	3
54R		23.8	31	5
42R		16.4	38	9
25R		16.8	38	5
20R		17.0	38	3
19R		15.4	39	9
17R		15.4	39	9
10R		6.6	48	7
℄		1.0	54	3
25L		+12.8	68.	1
50L		+30.5	85.	8
31+00				
50L		+33.4	88.	7
25L		+15.7	71.	0
℄		+1.2	56.	5
32R		16.7	38	6
25R		16.7	38	6
43R		16.2	39	1
51R		23.0	32	3
70R		26.0	29	3

31+50	5529			
70R		23.5	31	8
50R		21.7	33	6
43R		15.1	40	2
25R		15.6	39	7
21R		15.6	39	7
20R		13.5	41	8
16R		6.8	48	5
℄		0.3	55	0
25L		+16.8	72	1
50L		+32.5	87	8
32+00				
50L		+29.0	84	3
25L		+13.2	68	5 ✓
3L		0.7	54	6
℄		4.2	51	1 ✓
5R		10.8	44	5
10R		13.4	41	9
11R		15.6	39	7
25R		14.9	40	4 ✓
46R		14.9	40	4
60R		23.1	32	2
80R		24.6	30	7
T.P.	5.91	48.00	13.20	42.09

33+00		48.00						
50R			17.3		30.7			
28R			17.0		31.0			
25R			15.6		32.4			
9R			4.9		43.1			
℄			5.3		42.7			
12L			5.1		42.9			
15L			+0.1		48.1			
25L			+26.4		74.4			
40L			+32.0	SL	80.0			
55L			+37.6		85.6			
TP	3.99	47.78	4.21		43.79			
33+21.21 EC.								
50L			+35.8		83.6			
26L			+13.0		60.8			
25L			+4.5		52.3			
18L			4.5		43.3			
℄			4.5		43.3			
1R			4.5		43.3			
17R			14.7		33.1			
25R			15.7		32.1			
50R			15.7		32.1			

33+50		47.78						
50R			16.1		31.7			
25R			15.9		31.9			
15R			15.1		32.7			
℄			6.0		41.8			
8L			4.1		43.7			
25L			3.9		43.9			
27L			3.9		43.9			
32L			+3.7		51.5			
38L			+10.8		58.6			
34+00								
48L			+1.4		49.2			
40L			1.2		46.6			
39L			2.3		45.5			
25L			2.4		45.4			
9L			2.2		45.6			
℄			7.7		40.1			
10R			15.0		32.8			
20R			17.5		30.3			
25R			16.2		31.6			
40R			16.3		31.5			
50R			17.3		30.5			
T.P.	1.97	49.60	0.15		47.63			

6

feet Vert bank 25' high

35+00	49.60			
50R		19.4	30 2	
25R		18.8	30 8	
12R		17.3	32 3	
℄		12.2	37 4	
16L		1.2	48 4	
25L		0.8	48 8	
39L		0.9	48 7	
42L		+0.2	49.8	foot bank 20' high.
T.P. 7.99	57.57	0.02	49.58	
36+00				
31L		6.5	51.1	foot vert bank 8' high
25L		6.7	50 9 ✓	
11L		6.2	51 4	
℄		13.9	43 7 ✓	
18R		25.0	32 6	
25R		26.0	31 6 ✓	
50R		27.1	30 5	
37+00				
50R		23.3	34 3	
40R		23.6	34 0	
25R		22.6	35 0	
16R		21.5	36 1	
℄		12.8	44 8	
10L		4.2	53 4	
25L		3.7	53 9	
27L		3.7	53 9	

37+00	57.57			
28L		2.3	55,3	foot vert bank 10' high.
37+50				
35L		+7.8	65 4	
26L		2.2	55 4	
25L		2.2	55 4	
8L		2.3	55 3	
℄		7.8	49 8	
25R		18.0	39 6	
60R		22.3	35 3	
38+00				
60R		21.2	36 4	
25R		13.7	43 9 ✓	
℄		5.9	51 7 ✓	
6L		0.7	56 9	
25L		0.8	56 8 ✓	
26L		0.8	56 8	
35L		+9.1	66 7	
T.P. 10.51	67.54	0.54	57.03	
39+00				
40L		+11.0	78 5	
25L		+3.0	70 5	
23L		+1.5	69 0	
17L		8.1	59 4	
℄		8.2	59 3	
1R		8.2	59 3	

39+00	67.54			
17R		19.6	47.9	
25R		21.1	46.4	
50R		24.6	42.9	
39+50				
50R		21.1	46.4	
25R		14.4	53.1	
13R		10.3	57.2	
7R		6.2	61.3	
℄		6.6	60.9	
13L		6.7	60.8	
25L		+5.0	72.5	
37L		+12.6	80.1	
40+00				
40L		+12.2	79.7	
25L		+4.6	72.1	
14L		2.7	64.8	
14L		5.6	61.9	
℄		5.7	61.8	
10R		5.0	62.5	
17R		12.0	55.5	
25R		13.5	54.0	
50R		19.1	48.4	
B.M. #2		11.94	55.60	55.65

41+00	67.54			
50R		18.5	49.0	
25R		12.8	54.7	
20R		11.3	56.2	
10R		3.3	64.2	
℄		3.5	64.0	
11L		3.3	64.2	
19L		+5.4	72.9	
25L		+9.3	76.8	
40L		+17.6	85.1	
T.P. 10.87	78.03	0.38	67.16	
41+35				
40L		+3.8	81.8	
25L		4.0	74.0	
18L		7.8	70.2	
9L		11.6	66.4	
9L		12.7	65.3	
℄		12.9	65.1	
12R		12.7	65.3	
22R		20.8	57.2	
25R		22.2	55.8	
50R		26.9	51.1	

42+00	78.03		
50R		23.2	548
33R		19.7	583
25R		13.3	647
22R		11.0	670
℄		10.8	672
2L		10.7	673
25L		+6.5	845
40L		+16.9	949
42+50			
40L		+18.3	963
25L		+9.7	877
℄		3.7	743
5R		9.6	684
25R		8.5	695
33R		8.6	694
40R		13.3	647
50R		15.4	626

43+00	78.03		
58R		13.0	650
45R		6.6	714
43R		9.3	687
35R		8.9	691
31R		7.2	708
25R		7.4	706
11R		8.1	699
4R		+1.1	791
℄		+2.1	801
11L		+5.0	830
25L		+8.7	867
40L		+14.6	926
43+50			
40L		+15.6	936
25L		+11.3	893
℄		+3.0	810
7R		6.7	713
25R		5.9	721
32R		5.3	727
40R		6.4	716
47R		10.9	671
53R		12.7	653
B.M. Nail Pole		1.92	76.11

Cont'd in Book 1326 P10

Cont from 1326 P 21

BM Post at 74+00 111.98		0.99	110.99	
73+60				
40L		+11.3	123.28	
25L		+8.0	119.98	
℄		+2.5	114.48	
25R		3.0	108.98	
27R		3.6	108.38	
27R		6.0	105.98	
33R		9.1	102.88	
34R		10.9	101.08	
63R		8.5	103.48	brow Exist Fill
74+00				
50R		9.0	102.98	brow Exist Fill
25R		10.1	101.88 ✓	
18R		5.1	106.88	
℄		1.0	110.98 ✓	
25L		+6.2	118.18 ✓	
40L		+12.0	123.98	

74+50	111.98			
40L			+18.7	130.68
25L			+10.0	121.98
℄			2.2	109.78
4R			4.2	107.78
9R			7.5	104.48
14R			9.1	102.88
25R			8.8	103.18
38R			8.9	103.08
44R			12.8	99.18
54R			15.0	96.98
75+00				
50R			17.6	94.38
40R			12.9	99.08
32R			8.0	103.98
25R			8.0	103.98
9R			8.0	103.98
8R			4.5	107.48
℄			0.7	111.28
25L			+14.2	126.18
40L			+23.1	135.08

75+50	111.98		
40L		+26.0	137.98
25L		+18.0	129.98
℄		+5.0	116.98
7R		+1.0	112.98
10R		6.4	105.58
25R		6.3	105.68
33R		6.4	105.58
46R		14.9	97.08
56R		17.8	94.18
76+00			
60R		14.2	97.78
48R		10.4	101.58
41R		6.1	105.88
25R		5.6	106.38 ✓
8R		6.0	105.98
℄		+6.2	118.18 ✓
4L		+9.0	120.98
25L		+15.5	127.48 ✓
50L		+26.8	138.78

76+50	111.98	7.0 / 8.3 / 17.7	✓
50L		+17.7	129.68
25L		+12.0	123.98
8L		+5.9	117.88
℄		7.0	104.98
25R		6.4	105.58
38R		6.2	105.78
40R		8.1	103.88
77+00			
60R		19.3	92.68
29R		15.2	96.78
12R		7.2	104.78
1℄		7.2	104.78
12L		7.5	104.48
21L		9.5	102.48
31L		7.6	104.38
50L		6.1	105.88
77+50			
50L		7.5	104.48
37L		9.7	102.28
32L		13.5	98.48
22L		7.4	104.58
℄		7.0	104.98
28R		29.0	82.98
45R		34.5	77.48
70R		39.0	72.98

78+00	111.98			
60R		21.1	90.88	
40R		14.0	97.98	
23R		9.8	102.18 ✓	
8R		5.2	106.78	
℄		6.4	105.58 ✓	
17L		6.7	105.28	
24L		+3.9	115.88 ✓	
40L		+8.7	120.68	
78+50				
40L		+9.6	121.58	
28L		+4.8	116.78	
14L		5.7	106.28	
℄		4.7	107.28	
7R		4.6	107.38	
13R		7.9	104.08	
40R		18.2	93.78	
55R		27.9	84.08	

79+00	111.98			
55R		26.0	85.98	
31R		12.7	99.28	
11R		6.2	105.78	
6R		3.2	108.78	
℄		3.1	108.88	
14L		4.0	107.98	
27L		+6.1	118.08	
40L		+10.3	122.28	
80+00				
40L		+11.5	123.48	
22L		+6.1	118.08 ✓	
15L		1.4	110.58	
13L		1.7	110.28	
℄		0.7	111.28 ✓	
11R		0.6	111.38	
16R		4.3	107.68	
40R		14.8	97.18	
55R		22.7	89.28	

81+00	111.98				
55R			8.0	103.98	
29R			1.5	110.48	
T.P.	6.96	118.75	0.19	111.79	
22R			5.5	113.25	
℄			6.6	112.15 ✓	
7L			6.6	112.15	
13L			0.0	118.75	
40L			+5.6	124.35	
82+00					
40L			+5.4	124.15	
25L			+2.3	121.05 ✓	
13L			0.2	118.55	
6L			6.2	112.55	
℄			6.0	112.75 ✓	
21R			5.5	113.25	
26R			8.5	110.25 ✓	
40R			12.5	106.25	

83+00	118.75			
40R		12.4	106.35	
17R		8.1	110.65	
13R		5.2	113.55	
℄		5.4	113.35	
14L		6.3	112.45	
19L		3.1	115.65	
25L		2.1	116.65	
40L		0.1	118.85	
84+00				
40L		0.2	118.55	
29L		3.1	115.65	
25L		5.9	112.85 ✓	
℄		5.3	113.45 ✓	
3R		5.6	113.15	
6R		8.7	110.05	
25R		12.7	106.05 ✓	
40R		15.7	103.05	

84+88.36	11875 P.C.C.	11			86+00	11875					
40R			16.8	101.95	40R			16.4	102.35		
25R			14.2	104.55	25R			14.3	104.45		
℄			8.1	110.65	℄			9.3	109.45		
6L			4.8	113.95	13L			6.7	112.05		
29L			5.1	113.65	19L			3.8	114.95		
32L			1.0	117.75	25L			3.7	115.05		
37L			0.0	118.75	40L			4.2	114.55		
85+00					47L			4.6	114.15		
40L			+1.1	119.85	86+50						
33L			0.6	118.15	53L			4.5	114.25		
30L			4.8	113.95	25L			2.9	115.85		
7L			4.2	114.55	16L			8.8	109.95		
4L			6.6	112.15	℄			11.9	106.85		
℄			8.3	110.45	25R			15.0	103.75		
25R			13.5	105.25	40R			17.1	101.65		
40R			16.6	102.15	87+00						
					40R			16.2	102.55		
					25R			13.6	105.15		
					℄			10.1	108.65		
					20L			6.7	112.05		
					28L			3.5	115.25		
					55L			4.3	114.45		
					T.P.	3.23	118.21	3.77	114.98		

87+50	118.21			
60 L		3.8	114.41	
53 L		3.0	115.21	
31 L		2.7	115.51	
15 L		7.6	110.61	
℄		8.9	109.31	
25 R		12.4	105.81	
40 R		14.4	103.81	
88+00				
40 R		14.3	103.91	
25 R		13.4	104.81	✓
℄		9.4	108.81	✓
25 L		4.0	114.21	✓
35 L		2.6	115.61	
40 L		2.8	115.41	
89+00				
40 L		5.0	113.21	
32 L		6.7	111.51	
25 L		7.5	110.71	
℄		10.4	107.81	
25 R		12.9	105.31	
40 R		14.3	103.91	

90+00	118.21			
40 R		11.7	107.11	
25 R		9.9	108.31	✓
℄		7.1	111.11	✓
25 L		4.1	114.11	✓
40 L		2.0	116.21	
90+50				
40 L		0.4	117.81	
34 L		0.2	118.01	
25 L		2.5	115.71	
℄		5.5	112.71	
25 R		8.7	109.51	
40 R		10.7	107.51	
91+00				
40 R		10.4	107.81	
25 R		9.4	108.81	
T.P. 1243	122.86	7.78	110.43	
℄		11.6	111.26	
14 L		9.5	113.36	
20 L		5.4	117.46	
40 L		5.2	117.66	

91+50	122.86			
40L		2.9	119.96	
37L		5.6	117.26	
25L		5.4	117.46	
11L		5.5	117.36	
5L		9.2	113.66	
℄		10.5	112.36	
25R		14.3	108.56	
40R		16.2	106.66	
92+00				
50R		20.3	102.56	
25R		14.7	108.16	
3R		10.5	112.36	
℄		8.8	114.06	
5L		5.4	117.46	
25L		5.5	117.36	
29L		5.7	117.16	
34L		0.3	122.56	
40L		+2.0	124.86	

92+50	122.86			16
40L		+4.0	126.86	
27L		0.8	122.06	
19L		5.5	117.36	
℄		5.9	116.96	
3R		6.2	116.66	
12R		12.4	110.46	
25R		15.5	107.36	
40R		18.4	104.46	
55R		20.9	101.96	
93+00				
55R		22.3	100.56	
27R		15.0	107.86	
14R		5.7	117.16	
℄		5.6	117.26	
6L		5.3	117.56	
16L		+3.0	125.86	
40L		+12.3	135.16	
93+50				
50L		+25.5	148.36	
25L		+13.2	136.06	
℄		+2.4	125.26	
7R		5.1	117.76	
29R		5.6	117.26	
40R		14.7	108.16	
65R		22.3	100.56	

94+00		122.86			
60R			19.3	103.56	
39R			5.0	117.86	
22R			5.1	117.76	✓
15R			+0.8	123.66	
℄			+7.4	130.26	✓
25L			+22.0	144.86	✓
50L			+35.0	157.86	
94+50					
60L			+51.0	173.86	
38L			+37.5	160.36	
25L			+29.4	152.26	
℄			+13.7	136.56	
18R			+5.0	127.86	
25R			1.0	121.86	
26R			5.1	117.76	
40R			4.3	118.56	
46R			4.4	118.46	
61R			13.8	109.06	
T.P	4.00	124.00	2.86	120.00	

95+00		124.00			
68R			17.0	107.00	
50R			5.4	118.6	
28R			5.9	118.1	
8R			+12.8	136.8	
℄			+17.4	141.4	
25L			+33.8	157.8	
40L			+43.6	167.6	
60L			+57.4	181.4	
95+50					
60L			+49.7	173.7	
25L			+26.2	150.2	
5L			+15.2	139.2	
℄			+12.3	136.3	
21R			6.3	117.7	
45R			5.9	118.1	
60R			15.6	108.4	
96+00					
55R			15.2	108.8	
40R			11.9	112.1	
31R			5.4	118.6	✓
6R			5.7	118.3	
℄			0.9	123.1	✓
11L			+8.6	132.6	
25L			+15.3	139.3	✓
46L			+26.4	150.4	

96+50	124.00			
48L		+13.6	137.6	
25L		+3.6	127.6	
13L		5.6	118.4	
℄		5.3	118.7	
14R		5.4	118.6	
22R		10.0	114.0	
31R		12.8	111.2	
40R		14.4	109.6	
97+00				
40R		14.6	109.4	
25R		12.5	111.5	
℄		8.8	115.2	
10L		5.3	118.7	
30L		5.4	118.6	
40L		5.9	118.1	
97+50				
40L		5.6	118.4	
25L		8.7	115.3	
℄		11.2	112.8	
25R		13.4	110.6	
50R		15.5	108.5	

98+00	124.00		
50R		20.0	104.00
22R		19.8	104.2 ✓
℄		19.7	104.3 ✓
16L		18.6	105.4
42L		14.1	109.9
98+50			
40L		5.3	118.7
29L		11.3	112.7
℄		14.7	109.3
25R		16.1	107.9
50R		17.6	106.4
99+00			
50R		18.2	105.8
25R		16.3	107.7
℄		14.4	109.6
25L		11.0	113.0
40L		4.8	119.2
T.P. 595	125.60	4.35	119.65
99+50			
40L		6.3	119.3
29L		5.8	119.80
23L		9.4	116.2
℄		13.1	112.5
25L		17.0	108.6
50L		19.5	106.1

100+00	125.60		
50R		20.8	104.8
25R		17.5	108.1 ✓
℄		12.9	113.2 ✓
15L		9.2	116.4
33L		5.6	120.0 ✓
40L		6.2	119.4
100+50			
40L		6.4	119.2
18L		5.9	119.7
11L		11.0	114.6
℄		14.4	111.2
25R		19.5	106.1
50R		23.0	102.6
101+00			
50R		27.0	98.6
25R		22.7	102.90
℄		14.4	111.2
13L		5.7	119.9
36L		6.1	119.5
37L		4.1	121.5

101+57 83 E.C.	125.60		
40L		+1.0	126.6
31L		2.6	123.0
30L		5.5	120.1
7L		5.2	120.4
℄		10.9	114.7
25R		21.8	103.8
60R		31.0	94.6
102+00			
60R		32.0	93.6
25R		19.3	106.3 ✓
7R		13.2	112.4
℄		8.5	117.1 ✓
5L		5.0	120.6
26L		5.1	120.5 ✓
38L		+4.0	129.6
45L		+6.8	132.4
102+50			
40L		+9.0	134.6
24L		1.3	124.3
22L		4.3	121.3
3L		4.9	120.7
℄		7.9	117.7
25R		19.8	105.8
60R		33.5	92.1

103+00	125.60			
60R			31.3	94.3
25R			17.8	107.8
6R			10.4	115.2
℄			4.8	120.8
19L			4.3	121.3
20L			2.3	123.3
38L			+9.0	134.6
45L			+11.9	137.5
103+33.27 B.C.				
45L			+12.7	138.3
22L			0.0	125.6
19L			3.7	121.9
℄			4.5	121.1
25R			18.9	106.7
60R			26.0	99.6
104+00				
60R			28.2	97.4
25R			14.2	111.4 ✓
10R			3.0	122.6
℄			3.7	121.9 ✓
7L			3.8	121.8
8L			2.0	123.6
16L			+4.0	129.6
20L			+9.1	134.7 ✓
52L			+21.2	146.8

2.12

104+50	125.60			
45L			+25.0	150.6
25L			+14.0	139.6
7L			+6.2	131.8
℄			+1.0	126.6
3R			3.0	122.6
19R			2.7	122.9
60R			24.0	101.6
105+00				
60R			20.6	105.0
47R			14.3	111.3
27R			1.4	124.2
12R			1.9	123.7
℄			+10.3	135.9
19L			+20.6	146.2
46L			+32.8	158.4 2.6.11
105+50				
50L			+31.1	156.7
33L			+26.2	151.8
25L			+22.3	147.9
℄			+10.4	136.0
T.P.	5.20	128.68	2.12	123.48
8R			4.5	124.18
26R			3.7	124.98
50R			18.3	110.38

1+06+00	128.68				
50R			18.3	110.38	
25R			12.1	116.58	
10R			3.4	125.28	
℄			4.3	124.38	
10L			4.8	123.88	
16L			+4.6	132.28	
29L			+10.7	139.38	
40L			+15.7	144.38	
106+20					
40L			+9.5	138.18	
30L			+5.0	133.68	
24L			5.7	122.98	
℄			4.1	124.58	
16R			12.7	115.98	
40R			17.8	110.88	
106+57					
40R			19.6	110.08	
25R			21.7	106.98	
℄			18.0	110.68	
29L			12.1	116.58	
43L			6.9	121.78	
T.P.	1.76	117.34	13.10	115.58	
B.M. #7			9.66	107.68	107.71
	9.66	117.37		107.71	

1+07+00	117.37			
40L		4.0	113.37	
31L		5.7	111.67	
25L		4.4	112.97	
10L		5.6	111.77	
℄		3.5	113.87	
25R		6.9	110.47	
40R		7.7	109.67	
107+50				
40R		7.1	110.27	
25R		6.1	111.27	
℄		4.7	112.67	
25L		3.1	114.27	
40L		2.4	114.97	
108+00				
40L		5.1	112.27	
25L		5.8	111.57	
℄		6.7	110.67	
25R		7.7	109.67	
40R		8.6	108.77	
109+00				
40R		12.8	104.57	
25R		12.2	105.17	
℄		11.3	106.07	
25L		10.5	109.87	106.9
40L		9.9	107.47	

110 +00		117.37			
40L			10.6	106.77	
25L			11.8	105.57	✓
℄			13.1	104.27	✓
25R			15.1	102.27	
40R			15.4	101.97	
TP	1.24	106.15	12.46	104.91	
111+00					
40R			7.1	99.05	
25R			6.4	99.75	
℄			5.3	100.85	
25L			3.2	102.95	
40L			2.1	104.05	
112 +00					
40L			5.3	100.85	
25L			6.6	99.55	✓
℄			8.7	97.45	✓
25R			10.5	95.65	✓
40R			11.2	94.95	
113 +00					
40R			15.4	90.75	
25R			14.6	91.55	
℄			12.6	93.55	
25L			10.9	95.25	
40L			10.0	96.15	

113 +81.34 EC		106.15			
40L			12.6	93.55	
25L			13.4	92.75	
℄			15.4	90.75	
25R			17.2	88.95	
40R			18.2	87.95	
TP	2.26	95.31	13.10	93.05	
114+00					
40R			8.6	86.71	
25R			7.3	88.01	✓
℄			5.1	90.21	✓
25L			3.1	92.21	✓
40L			2.3	93.01	
114+50					
40L			3.7	91.61	
25L			5.1	90.21	
℄			6.7	88.61	
25R			8.1	87.21	
40R			8.7	86.61	
115 +00					
40R			7.9	87.41	
25R			7.2	88.11	
℄			5.7	89.61	
25L			4.0	91.31	
40L			3.0	92.31	

116+00	95.31			
40L		1.5	93.81	
25L		2.5	92.81	
℄		4.0	91.31	
25R		5.4	89.91	
40R		6.3	89.01	
117+00				
40R		3.4	91.91	
25R		2.3	93.01	
℄		0.8	95.51	94.5
TP	10.99	106.01	0.29	95.02
25L		9.8	96.21	
40L		8.6	97.41	
118+00				
40L		7.1	98.91	
25L		8.4	97.61	
℄		10.2	95.81	
25R		12.1	93.91	
40R		12.6	93.41	
119+00				
40R		9.2	96.81	
25R		8.5	97.51	
℄		6.6	99.41	
25L		4.8	101.21	
40L		3.3	102.71	
B.M.	+0.6 Post RR fence	5.07	100.94	

Cont in Book 1326 P 22

162+50

Cont from Book 1376 P 31

23

B.M.	8.71	129.58		120.87
163+00				
40L			2.4	127.18
25L			3.9	125.68
℄			6.1	123.48
25R			8.3	121.3
40R			10.0	119.6
50R			12.5	117.1
163+50				
50R			10.7	118.9
25R			8.0	121.6
℄			4.0	125.6
25L			1.5	128.1
40L			+0.4	130.0
164+00				
40L			+1.9	131.5
25L			+1.1	130.7
℄			0.9	128.7
25R			3.2	126.4
27R			6.4	123.2
38R			8.5	121.1
40R			6.0	123.6
50R			7.8	121.8

		129.58			
164+19 57 B.C					
50R			6.8	122.8	
38R			4.0	125.6	
33R			6.7	122.9	
28R			7.0	122.6	
25R			2.8	126.8	
H.b ℄	12.48	141.68	0.38	129.20	
25L			10.5	131.18	
40L			9.6	132.1	
164+50					
40L			6.5	135.2	
25L			7.7	134.0	
℄			12.2	129.5	
14R			14.1	127.6	
15R			11.2	130.5	
25R			12.9	128.8	
40R			14.8	126.9	
50R			15.8	125.9	
165+00					
50R			13.7	128.0	
25R			11.6	130.1	
℄			8.9	132.8	
25L			5.6	136.1	
40L			4.2	137.5	

165+50		141.68			
40L			1.6	140.1	
25L			4.6	137.1	
℄			8.7	133.0	
25R			11.8	129.9	
50R			13.3	128.4	
166+00					
50R			12.5	129.2	
25R			8.8	132.9	
℄			3.7	138.0	
25L			+2.4	144.1	
40L			+6.2	147.9	
166+50					
40L			+13.1	154.8	
25L			+10.5	152.2	
℄			+4.4	146.1	
25R			1.8	139.9	
50R			6.9	134.8	
T.P.	14.33	152.72	1.29	140.39	
167+00					
50R			11.2	141.5	
25R			7.1	145.6	
℄			0.6	152.1	
25L			+4.9	157.6	
40L			+7.4	160.1	

167+50	152.72		
40L		+4.3	157.0
25L		+3.7	156.4
℄		0.6	152.1
25R		5.1	147.6
50R		9.3	143.4
168+00			
50R		10.1	142.6
25R		5.7	147.0 ✓
℄		1.8	150.9 ✓
25L		0.4	152.3 ✓
36L		0.3	152.4
40L		+2.8	155.5
168+50			
40L		+3.3	156.0
25L		+0.7	153.4
10L		2.2	150.5
℄		5.0	147.7
25R		8.3	144.4
40R		9.7	143.0

169+00	152.72		
40R		12.5	140.2
25R		9.2	143.5 ✓
℄		6.1	146.6 ✓
25L		0.5	152.2 ✓
40L		+2.1	154.8
169+50			
40L		+1.5	154.2
25L		2.2	150.5
℄		8.3	144.4
25R		12.8	139.9
40R		15.3	137.4
T.P.	8.15	14.95	12.92	139.80
170+00			
40R		14.5	133.4
25R		12.3	135.6 ✓
℄		8.0	139.9 ✓
25L		1.5	146.4 ✓
40L		+2.8	150.7
170+50			
40L		3.8	144.1
25L		7.8	140.1
℄		11.2	136.7
25R		12.9	135.0
40R		13.7	134.2

171+00	147.95		
40R		13.6	134.3
25R		12.7	135.2
℄		10.2	137.7
25L		7.5	140.4
40L		5.7	142.2
171+50			
40L		4.0	143.9
25L		6.6	141.3
℄		10.2	137.7
25R		13.2	134.7
40R		14.0	133.9
172+00			
40R		15.0	132.9
25R		14.5	133.4 ✓
℄		11.7	136.2 ✓
25L		7.9	140.0 ✓
40L		6.4	141.5
172+49.71 E.C.			
40L		8.1	139.8
25L		11.6	136.3
℄		14.8	133.1
25R		14.8	133.1
32R		15.3	132.6
34R		20.0	127.9
40R		19.1	128.8

173+00	147.95		
40R		17.3	130.6
35R		18.3	129.6
30R		14.7	133.2
25R		14.3	133.6
℄		13.9	134.0
25L		14.0	133.9
40L		13.6	134.3
173+50			
40L		12.0	135.9
25L		12.7	135.2
℄		13.6	134.3
25R		14.1	133.8
36R		15.0	132.9
37R		18.0	129.9
45R		18.0	129.9
50R		15.5	132.4
174+00			
50R		17.0	130.9
40R		14.4	133.5
25R		13.9	134.0 ✓
℄		13.0	134.9 ✓
25L		10.5	137.4 ✓
40L		8.3	139.6

174+50	147.95			
40L		5.3	142.6	
25L		7.5	140.4	
℄		10.5	137.4	
25R		12.6	135.3	
40R		13.3	134.6	
175+00				
40R		12.3	135.6	
25R		11.1	136.8	
℄		9.6	138.3	
25L		4.7	143.2	
40L		0.0	147.9	
TP	13.08	1.38	146.57	159.65
175+50				
40L		3.6	156.1	
25L		7.8	151.9	
℄		14.0	145.7	
25R		19.3	140.4	
40R		21.0	138.7	
176+00				
40R		16.3	143.4	
25R		13.8	145.9 ✓	
℄		8.7	151.0 ✓	
25L		2.6	157.1 ✓	
40L		+1.4	161.1	

176+40	159.65			
40L		+4.1	163.8	
25L		+0.9	160.6	
℄		4.9	154.8	
13R		10.3	149.4	
25R		10.6	149.1	
40R		11.4	148.3	
TP 1.71	149.09	12.27	147.38	
BM #13		9.74	139.35	139.41

Cont'd in Book 1326 P 32

Cont from Book 1326 P46

B.M. #16	0.17	250.01		249.84	
TP	1.14	238.21	12.94	237.07	
217+00					
40L			4.0	234.2	
27L			8.5	229.7	
25L			13.3	224.9	✓
3L			12.8	225.4	
℄			15.6	222.6	✓
8R			20.4	217.8	
25R			22.5	215.7	✓
50R			23.1	215.1	✓
217+50					
50R			26.1	212.1	✓
29R			26.6	211.6	
25R			26.8	211.4	✓
℄			21.7	216.5	✓
11L			13.4	224.8	
25L			12.9	225.3	✓
34L			13.5	224.7	
40L			9.2	229.0	

218+00		238.21			
38L			13.3	224.9	
25L			12.4	225.8	✓
17L			12.7	225.5	
T.P.	7.04	232.77	12.48	225.73	
℄			15.8	217.0	✓
4R			17.8	215.0	
25R			20.1	212.7	✓
50R			21.5	211.3	✓
218+50					
50R			19.9	212.9	✓
25R			16.9	215.9	✓
℄			14.5	218.3	✓
10L			12.8	220.0	
20L			6.6	226.2	
25L			6.7	226.1	✓
40L			7.3	225.5	
219+00					
40L			6.6	226.2	
25L			5.7	227.1	✓
20L			5.5	227.3	
16L			8.8	224.5	
℄			10.8	222.0	✓
25R			14.6	218.2	✓
50R			18.5	214.3	✓

232.77

219+68 $\frac{83}{}$ = 219+83 $\frac{76}{}$ E.C.

50R			16.9	215.9
25R			13.9	218.9
℄			10.9	221.9
20L			7.5	225.3
25L			5.0	227.8
40L			5.9	226.9

Section Duplicated in Book 1304 Page 40

219+68 $\frac{83}{}$ to 249+50 taken by Yager.

Book 1304 page 64

29

BM #20	0.71	295.35		294.64
TP	0.05	282.69	12.71	282.64
250+00				
40L			12.7	270.0
25L			14.4	268.3
10L			15.9	266.8
℄			18.3	264.4
5R			23.4	259.3
25R			22.6	260.1
26R			21.5	261.2
50R			23.1	259.6
250+50				
50R			24.2	258.5
25R			21.2	261.5
19R			22.1	260.6
℄			22.0	260.7
2L			22.0	260.7
16L			14.5	268.2
25L			11.7	271.0
40L			7.1	275.6

251+00					
40L			3.5	279.2	
25L			10.0	272.7	
17L			13.2	269.5	
GC			22.3	260.4	
℄			21.9	260.8	
18R			22.6	260.1	
25R			25.6	257.1	
50R			27.4	255.3	
251+50					
50R			32.5	250.2	
32R			30.0	252.7	
25R			27.3	255.4	
19R			22.3	260.4	
℄			22.1	260.6	
11L			22.9	259.8	
25L			17.0	265.7	
40L			11.2	271.5	

252+00		282.69			
40L				1.2	281.5
25L				6.0	276.7
℄				14.6	268.1
2R				14.6	268.1
5R				22.0	260.7
25R				22.0	260.7
27R				22.0	260.7
50R				33.3	249.4
252+50					
50R				26.5	256.2
38R				20.9	261.8
25R				21.5	261.2
15R				22.0	260.7
℄				4.8	277.9
25L				+5.4	288.1
40L				+10.2	292.9
253+00					
40L				+7.9	290.6
25L				+3.6	286.3
T.P	10.17	280.81		12.05	270.64
2L				3.1	277.7
℄				6.4	274.4
6R				19.6	261.2
25R				19.3	261.5
40R				18.5	262.3
50R				23.0	257.8

253+60	280.81		
50R	29.6	251.2	
42R	28.8	252.0	
25R	17.9	262.9	
℄	18.4	262.4	
18L	17.2	263.6	
25L	14.9	265.9	
40L	11.6	269.2	
254+00			
40L	16.3	264.5	
25L	16.7	264.1	✓
℄	17.3	263.5	✓
25R	17.8	263.0	✓
38R	27.6	253.2	
50R	29.8	251.0	✓
254+20			
50R	30.0	250.8	
40R	29.0	251.8	
25R	18.0	262.8	
℄	17.3	263.5	
14L	17.0	263.8	
25L	14.4	266.4	
40L	11.3	269.5	

280.81

254+60 24 EC		
40L	+1.0	281.8
25L	3.1	277.7
10L	7.6	273.2
℄	11.0	269.8
7R	15.6	265.2
25R	15.9	264.9
28R	16.0	264.8
50R	25.9	254.9
255+00		
50R	20.7	260.1
38R	14.3	266.5
25R	14.0	266.8
14R	14.7	266.1
8R	9.0	271.8
℄	6.6	274.2
25L	+0.8	281.6
40L	+6.0	286.8
255+50		
40L	+12.3	293.1
25L	+8.0	288.8 ✓
℄	+0.7	281.5 ✓
14R	3.3	277.5
22R	11.7	269.1
25R	11.4	269.4 ✓
45R	10.3	270.5
50	13.4	267.4 ✓

256+00	280.81			
50R		7.8	273.0	
25R		8.4	272.4	
20R		1.4	279.4	
T.P	12.96	292.05	1.72	279.09
℄		7.4	284.7	
25L		+1.0	293.1	
40L		+5.2	297.3	
257+00				
40L		+8.8	300.9	
25L		+6.0	298.1	
℄		1.1	291.0	
21R		6.4	285.7	
25R		9.0	283.1	
28R		12.8	279.3	
52R		12.7	279.4	
258+00				
54R		5.1	286.9	
29R		5.1	286.9	
25R		1.0	291.0	
22R		+1.0	293.0	
℄		+6.0	298.0	
25L		+12.0	304.0	
40L		+14.0	306.0	

258+50	292.05			
40L		+14.4	306.5	
25L		+12.7	304.8	
℄		+8.3	300.4	
25R		+4.0	296.1	
T.P.	13.23	305.20	0.08	291.97
T.P.	11.67	316.17	0.70	304.50
BM #21			0.34	315.83 (315.94)
	0.34	316.28		315.94
T.P.	5.07	309.68	11.67	304.61
30R			18.9	290.8
55R			18.6	291.1
259+00				
50R			14.5	295.2
25R			15.1	294.6
19R			10.2	299.5
℄			7.5	302.2
25L			2.9	306.8
40L			1.4	308.3
259+50				
40L			0.2	309.5
25L			1.9	307.8
2.L			5.2	304.5
℄			6.3	303.4
13R			11.8	297.9
25R			10.8	298.9
37R			11.1	298.6
45R			14.7	295.0

259+50	309.68		
50R		16.3	293,4
259+75 46	BC		
50R		13.8	295,9
35R		12.4	297,3
30R		9.4	300,3
25R		9.3	300,4
5R		9.8	299,9
℄		7.2	302,5
11L		2.5	307.2
25L		1 3	308,4
40L		+0.4	310,1
260+00			
40L		+1.1	310,8
25L		0 8	308,9
8L		3.6	306,1
℄		8.0	301,7
25R		8.0	301,7
28R		10.0	299,7
45R		11.4	298,3
50R		13 2	296,5

260+50	309.68		
50R		9.8	299,9
40R		7.6	302,1
25R		6.1	303,6
18R		5.2	304,5
15R		4.4	305,3
℄		4.0	305,7
11L		4.6	305,1
15L		1.0	308,7
25L		+0.5	310,2
40L		+2.5	312,2
261+00			
40L		+4.7	314,4
35L		+4.1	313,8
29L		+0 4	310,1
25L		0.2	309,5
19L		1.1	308,6
℄		0 9	308,8
4R		1 2	308,5
6R		0 8	308,9
25R		2.8	306,9
40R		3.9	305,8

261+50	309.68			
T.P.	13.20	323.49	+0.61	310.29
40R			14.3	309,2
25R			13.5	310,0
17R			12.4	311.1
9R			11.0	312,5
℄			10.8	312,7
1L			11.5	312,0
25L			11.0	312,5
34L			10.3	313,2
40L			7.1	316,4
262+00				
40L			2.7	320,8
34L			5.2	318,3
25L			6.3	317,2
14L			6.2	317,3
℄			7.5	316,0
5R			7.6	315,9
25R			9.3	314,2
40R			11.2	312,3

262+50	323.49			
40R			4.5	319,0
25R			4.8	318,7
20R			4 3	319,2
11R			3 6	319,9
℄			3 3	320,2
15L			2.7	320,8
20L			0.6	322,9
25L			0.2	323,3
40L			+0.4	323,9
263+00				
40L			+4.6	328,1
25L			+3.7	327,2
14L			+1.3	324,8
4L			0 9	322,6
℄			0 6	322,9
21R			1.3	322,2
25R			0 8	322,7
31R			0.8	322,7
35R			2.4	321,1
40R			3.4	320,1
T.P.	13.09	336.32	0 26	323.23

263+50	336.32			
40R			10.1	326,2
33R			9.7	326,6
31R			10.6	325,7
25R			9.9	326,4
~~10R~~			10.3	326,0
℄			9.0	327,3
2L			7.7	328,6
25L			5.5	330,8
31L			5.2	331,1
40L			3.6	332,7
264+00				
40L			0.6	335,7
~~34L~~			2.5	333,8
25L			3.2	333,1
13L			3.3	333,0
℄			4.1	332,2
9R			5.0	331,3
15R			6.1	330,2
17R			6.8	329,5
25R			6.3	330,0
40R			6.6	329,7

264+50	336.32			
40R			3.0	333,3
25R			3.0	333,3
20R			3.4	332,9
17R			1.6	334,7
T.P.	13.06	349.37	0.01	336,31
12R			13.1	336,3
℄			12.8	336,6
25L			10.3	339,1
40L			9.4	340,0
265+00				
40L			3.5	345,9
32L			4.3	345,1
25L			5.6	343,8
℄			8.3	341,1
14R			8.6	340,8
20R			12.8	336,6
25R			12.3	337,1
40R			12.7	336,7
265+50				
40R			9.8	339,6
25R			9.1	340,3
20R			9.5	339,9
16R			6.1	343,3
℄			5.2	344,2
14L			4.1	345,3
25L			1.7	347,7
40L			0.7	348,7

266+00	349.37			
40L		0.5	348,9	
25L		1.6	347.8	✓
℄		2.9	346,5	✓
14R		3.9	345.5	
17R		3.6	345.8	
23R		7.4	342.0	
25R		7.0	342,4	✓
32R		6.7	342.7	
40R		7.1	342.3	
266+50				
40R		4.8	344.6	
32R		4.6	344,8	
25R		5.1	344.3	
23R		2.4	347.0	
℄		1.4	348.0	
25L		0.3	349.1	
40L		+0.9	350.3	
267+00				
40L		+2.1	351.5	
35L		+1.2	350,6	
25L		+0.7	350.1	
℄		0.0	349.4	
25R		1.0	348.4	
28R		1.0	348.4	
31R		3.4	346.0	
40R		2.9	346.5	

		349.37		
TP	12.88	359.76	2.49	346.88
R67+50				
40R			11.5	348,3
32R			10.4	349,4
25R			10.5	349,3
℄			8.7	351,1
25L			7.8	352,0
40L			6.4	353,4
268+00				
40L			5.5	354,3
25L			5.8	354.0 ✓
18L			6.7	353,1
℄			7.2	352,6 ✓
25R			8.0	351.8 ✓
40R			9.6	350.2
268+50				
40R			6.5	353,3
25R			5.8	354,0
℄			5.5	354.3
11L			4.1	355,7
25L			3.8	356.0
40L			2.8	357.0

269+00	359.76		
40L		+1.5	361.3
25L		0.2	359.6
℄		1.8	358.0
5R		2.0	357.8
25R		4.4	355.4
40R		5.1	354.7
269+28.39 E.C.			
40R		1.7	358.1
38R		2.4	357.4
32R		1.4	358.4
25R		1.1	358.7
15R		0.0	
TP.	12.62	370.47	1.91	357.85
℄		10.6	359.9
14L		10.4	360.1
25L		8.1	362.4
40L		6.9	363.6

37

270+00	370.47		
40L		0.2	370.3
25L		1.5	369.0
6L		2.8	367.7
℄		4.4	366.1
6R		6.2	364.3
14R		6.0	364.5
15R		7.3	363.2
25R		6.9	363.6
38R		7.2	363.3
40R		8.1	362.4
270+50			
40R		2.8	367.7
25R		3.2	367.3
21R		4.1	366.4
15R		3.4	367.1
℄		3.2	367.3
5L		3.4	367.1
9L		0.8	369.7
25L		+0.5	371.0
40L		+1.0	371.5

271+00	370.47			
40L			+2.7	373.2
25L			+2.3	372.8
20L			1.0	369.5
11 L			0.2	370.3
℄			0.5	370.0
8 R			1.2	369.3
T.P	12.82	382.81	0.48	369.99
10R			12.1	370.7
25R			12.4	370.4
40R			13.0	369.8
271+50				
40R			11.5	371.3
25R			10.9	371.9
15R			10.1	372.7
℄			10.2	372.6
6L			10.2	372.6
7L			10.8	372.0
15L			10.0	372.8
25L			10.0	372.8
34L			10.6	372.2
40L			7.1	375.7

272+00	382.81		
40L		7.4	375.4
25L		7.8	375.0
23L		8.2	374.6
22L		7.7	375.1
℄		8.4	374.4
25R		9.3	373.5
40R		9.5	373.3
272+50			
40R		7.0	375.8
25R		6.9	375.9
℄		6.2	376.6
25L		6.1	376.7
33L		5.9	376.9
34L		6.4	376.4
40L		5.7	377.1
273+00			
40L		3.8	379.0
28L		3.7	379.1
25L		3.2	379.6
℄		2.3	380.5
25R		2.2	380.6
40R		1.8	381.0

273+15		382.81		
40R			4.4	378,4
25R			4.2	378,6
21R			3.6	379,2
17R			0.0	3878
℄			0.6	382,2
25L			1.8	381.0
40L			1.6	381.2
TP	6.45	389.23	0.03	382.78
273+50				
40L			5.4	383,8
25L			4.7	384,5
℄			3.0	386,2
3R			2.8	386.4
9R			8.5	380,7
16R			9.6	379,6
25R			9.0	380,2
40R			9.2	380,0
274+00				
47R			8.5	380,7
32R			2.7	386.5
25R			2.8	386,4
℄			4.7	384,5
25L			5.8	383.4
40L			5.8	383.4

274+50		389.23		
40L			6.6	382,6
25L			7.0	382,2
℄			7.4	381,8
25R			7.1	382,1
40R			6.6	382,6
275+00				
40R			9.3	379,9
25R			9.1	380,1
℄			8.3	380,9
25L			7.5	381,7
40L			6.8	382,4
275+50				
40L			6.5	382,7
25L			6.7	382,5
℄			8.1	381,1
25R			8.8	380,4
40R			9.3	379,9
276+00				
40R			7.5	381,7
25R			7.0	382,2
℄			6.6	382,6
25L			5.8	383,4
40L			5.7	383,5
TP	5.81	389.13	5.91	383.32

277+00		389.13		
40L			4.4	384.7
25L			4.8	384.3
℄			5.4	383.7
25R			6.1	383.0
40R			7.0	382.1
278+00				
40R			6.1	383.0
25R			5.9	383.2
℄			5.3	383.8
25L			4.3	384.8
40L			4.2	384.9
279+00				
40L			2.8	386.3
25L			3.1	386.0
℄			3.2	385.9
25R			2.2	386.9
40R			1.7	387.4
280+00				
T.P.	11.96	400.01	1.08	388.05
40R			9.8	390.2
25R			10.3	389.7
℄			10.3	389.7
25L			10.6	389.4
40L			10.1	389.9

280+84.82 BC 400.01

40

40L	5.0	395.0
25L	4.7	395.3
℄	5.2	394.8
25R	4.9	395.1
40R	4.5	395.5
281+00		
40R	3.0	397.0
25R	3.1	396.9
℄	3.3	396.7
25L	3.4	396.6
40L	3.5	396.5
281+17		
40L	4.6	395.4
25L	4.7	395.3
℄	4.6	395.4
25R	4.2	395.8
40R	3.7	396.3
281+50		
40R	2.4	397.6
25R	2.6	397.4
℄	2.9	397.1
25L	3.0	397.0
40L	2.7	397.3

282+00		400.01		
40L			0.6	399.4
25L			1.0	399.0
℄			1.0	399.0
25R			1.0	399.0
40R			0.7	399.3
T.P	7.11	406.87 (7.01)	0.25	399.76
283+00				
40R			4.4	402.5
25R			4.4	402.5
℄			4.5	402.4
25L			4.6	402.3
40L			4.4	402.5
284+00				
40L			4.1	402.8
25L			4.1	402.8
℄			3.8	403.1
25R			4.0	402.9
40R			3.8	403.1
285+00				
40R			4.5	402.4
25R			4.6	402.3
℄			5.0	401.9
15L			4.9	402.0
25L			3.9	403.0
33L	E edg. Exist Pav.		4.00	403.01

					41
286+00		407.01 406.87			
12L	E edge Exist Pav		3.81	403.1	403.20
5L			3.7	403.2	
℄			4.3	402.6	
25R			4.7	402.2	
40R			4.0	402.9	
286+56					
40R			3.6	403.3	
25R			3.7	403.2	
17R			3.0	403.9	
℄			3.3	403.6	
5L	E. edge Exist Pav.		3.27	403.6	403.74
287+00					
TP	6.11	412.46 (60)	0.52	406.35	
℄	on Pav.		7.76	404.7	404.84
15R			7.0	405.5	
25R			7.6	404.9	
40R			7.4	405.1	
288+00					
40R			2.7	409.8	
25R			3.1	409.4	
20R			3.5	409.0	
14R			4.7	407.8	
7½R	E edge Pav		4.54	408.0	408.06
℄	on Pav		4.42	408.1	408.18
8½L	W edge Pav.		4.53	408.0	408.07

60
412.46
288+51.02 E.C.

7.8 L	wedge Pav		2.83	~~409.7~~	409.77
℄	℄ Pav		2.77	~~409.7~~	409.83
8.1 R	Eedge Pav		2.81	~~409.7~~	409.79
14 R			3.1	409.4	
25 R			1.6	410.9	
28 R			1.0	411.5	
40 R			1.0	411.5	
100' N of E.C. on Exist. Pav.		412.60			
E. edge			0.26	~~412.2~~	412.34
℄			0.31	~~412.2~~	412.29
W. edge			0.31	~~412.2~~	412.29
TP	2.97	405.74	9.69	402.77	
BM #24			10.90	394.84	394.98

394.98
10.90
405.88
2.97
402.91
9.69
412.60

Correct El. of X sec. on pavement to El. of BM #24 this page

Extra Levels for R.O.W.

A/20/29
London.

Flat 50' out

B.M. #13	9.62	149.03		139.41	
T.P.	7.76	154.47	2.32	146.71	
169+00					
70L			+8.3	162.8	(157.5)
70R			18.8	135.7	(137.2)
169+50					
70R			21.0	133.5	(136.1)
T.P.	10.79	165.15	0.11	154.36	
70L			2.6	162.6	(157.0)
170+00					
70L			4.7	160.5	(154.0)
170+50					
70L			13.8	151.4	(146.7)
T.P.	0.98	153.60	12.53	152.62	
171+00					
70L			7.2	146.4	(143.6)
171+50					
70L			5.2	148.4	145.4
172+00					
70L			7.0	146.6	143.2
172+49.71 E.C.					
50L			11.7	141.9	
57L			8.8	144.8	
70L			5.4	148.2	

				11.6	
173+00		153.60			
55L			13.0	140.6	
70L			7.8	145.8	
T.P.	7.62	148.70	12.52	141.08	
173+50					
70L			7.5	141.2	(137.7)
174+00					
65L			5.4	143.3	(141.1)
70L			3.6	145.1	
174+50					
70L			1.5	147.2	(149.4)
T.P.	13.11	161.57	0.24	148.46	
175+00					
70L			6.4	155.2	(150.5)
T.P.	12.40	172.81	1.16	160.41	
175+50					
70L			7.6	165.2	(159.1)
176+00					
70L			4.7	168.1	(163.4)
176+40					
70L			1.5	171.3	165.3
177+00					
48L			6.4	166.4	(166.9)
70L			0.8	172.0	

177+50	172.81			
45L			4.6	168.2
65L			1.3	171.5 (1690)
70L			+2.1	174.9
BM #13	886	148.27		139.41
177+50				
55R			5.6	142.7
64R			7.5	140.8
70R			7.5	140.8
177+00				
70R			8.3	140.0
176+40				
45R			0.7	147.6
65R			7.9	140.4
70R			7.9	140.4
176+00				
62R			5.7	142.6
70R			4.7	143.6
175+50				
70R			11.4	136.9
175+00				
65R			13.7	134.6
70R			16.2	132.1
T.P.	2.32	138.49	12.10	136.17

174+50	138.49		
55R		4.8	133.7
60R		7.3	131.2
70R		5.9	132.6
174+00			
70R		4.8	133.7
56R		6.9	131.6
48R		7.8	130.7
43R		5.4	133.1
173+50			
70R		4.7	133.8
173+00			
50R		6.7	131.8
70R		4.8	133.7
172+49.71 E.C.			
50R		7.6	130.9
56R		6.5	132.0
70R		5.8	132.7
172+00			
70R		6.6	131.9
58R		7.8	130.7
52R		10.5	128.0
48R		7.0	131.5

171+50	138.49			
70R		7.6	130.9	
171+00				
70R		5.3	133.2	
170+50				
70R		6.1	132.4	
170+00				
70R		6.7	131.8	
169+50				
70R		5.4	133.1	
BM #13	9.04	148.45	139.41	
178+00				
70R		7.6	140.8	
60R		8.1	140.4	
178+50				
70R		7.4	141.0	
179+00				
70R		7.0	141.4	
179+50				
70R		5.8	142.6	
180+00				
70R		4.7	143.8	

180+50	148.45		
70RP	4.3	144.1	
181+00			
70R	3.5	144.9	
181+50			
70R	2.5	146.0	
T.P. 6.39	154.78	0.06	148.39
182+00			
70R	6.9	147.9	
182+11 32 B.C			
70R	6.4	148.4	
182+50			
70R	7.2	147.6	
183+00			
70R	6.2	148.6	
183+50			
70R	6.0	148.8	
183+86 72 E.C.			
70R	5.7	149.1	
184+00			
70R	5.1	149.7	
184+50	4.3	150.5	
55R	4.6	150.2	
70R	4.3	150.5	

185+00	154.78				
65R			2.0	152.8	
70R			2.0	152.8	
T.P.	13.01	166.64	1.15	153.63	
185+50					
70R			11.9	154.7	
186+00					
58R			7.3	159.3	
70R			6.7	159.9	
186+50					
70R			3.6	163.0	
187+00					
70R			4.8	161.8	
T.P.	12.64	179.01	0.27	166.37	
60R			11.9	167.1	
187+20					
60R			15.3	163.7	
65R			15.9	163.1	
70R			19.0	160.0	
75R			13.6	165.4	
80R			13.9	165.1	

187+40	179.01				
65R			8.8	170.2	
80R			10.6	168.4	
187+50					
80R			9.7	169.3	
187+60					
80R			9.8	169.2	
188+00					
80R			9.0	170.0	
188+25					
80R			8.5	170.5	
189+00					
80R			10.7	168.3	
190+00					
80R			8.4	170.6	
191+00					
T.P.	12.75	190.87	0.89	178.12	
BM			7.73	183.14	Pole R+.
60R			10.4	180.5	
80R			11.7	179.2	
T.P	12.72	203.59	0.00	190.87	
T.P	12.16	215.26	0.49	203.10	
BM			2.91	212.35	Stone 70R 191+00

191+00	215.26			
70L		4.0	211.3	
190+00				
48L		15.4	199.9	
70L		9.3	206.0	
189+00				
70L		11.7	203.6	
65L		16.5	198.8	
58L		17.2	198.1	
56L		20.4	194.9	
T.P. 1.26	204.06	12.46	202.80	
188+25				
70L		10.0	194.1	
63L		13.8	190.2	
T.P. 0.67	191.25	12.98	191.08	
188+00				
70L		6.2	185.5	
65L		11.1	180.6	
187+60				
70L		6.6	185.1	
187+50				
70L		6.6	185.1	
187+40				
70L		7.3	184.4	
187+20				
70L		7.7	184.0	

187+00	191.75			
70L		8.5	183.3	
186+50				
70L		8.0	183.8	
186+00				
70L		7.7	184.0	
185+50				
70L		10.2	181.5	
TP 2.96	183.87	10.84	180.91	
185+00				
70L		1.9	182.0	
184+50				
70L		1.4	182.5	
184+00				
70L		1.6	182.3	
183+86.72 = E.C.				
70L		2.6	181.3	
183+50				
70L		1.0	183.9	
T.P. 3.72	185.19	2.40	181.47	
183+00				
70L		2.1	183.1	
BM#14		2.16	183.03	182.98

182+11 32 B.C	185.19			
70L		2.9	182.3	
182+00				
70L		3.5	181.7	
181+50				
70L		6.6	178.6	
181+00				
70L		11.0	174.2	
180+50				
70L		13.3	171.9	
180+00				
70L		12.4	172.8	
179+50				
70L		11.5	173.7	
179+00				
T.P. 503	177.51	12.71	172.48	
70L		3.7	173.8	
178+50				
70L		2.9	174.6	
178+00				
58L		6.8	170.7	
70L		0.1	177.4	

BM.	9.10	192.24		183.14
191+50				
80R			9.6	182.6
192+00				
80R			9.6	182.6
192+99 24 B.C.				
80R			9.6	182.6
194+00				
75R			3.6	188.6
80R			4.8	187.4
194+50				
80R			5.7	186.5
195+00				
80R			5.8	186.4
195+50				
80R			3.9	188.3
90R			15.9	176.3
196+00				
55R			+0.3	192.5
80R			1.9	190.3
196+50				
80R			1.6	190.6
197+00				
80R			3.7	189.0
197+61 75 E.C.				
80R			5.6	186.6

		192.24			
T.P.	12.67	201.31	3.60	188.64	
198+00					
80R			15.8	185.5	
199+00					
80R			15.3	186.0	
200+00					
80R			6.5	194.8	
200+50					
80R			3.9	197.4	
201+00					
80R			2.6	198.7	
201+50					
80R			3.1	198.2	
202+00					
80R			0.8	200.5	
T.P.	12.90	213.59	0.62	200.69	
202+60					
80R			9.4	204.2	
203+00					
80R			6.6	207.0	
203+50					
80R			5.4	208.2	
204+00					
80R			4.1	209.5	

204+50		213.59			
80R			4.1	209.5	
205+00					
80R			5.0	208.6	
205+50					
80R			7.3	206.3	
206+00					
80R			10.0	203.6	
206+50					
50R			7.2	206.4	
80R			10.7	202.9	
207+00					
80R			12.7	200.9	
207+50					
80R			15.8	197.8	
208+00					
75R			16.6	197.0	
80R			17.0	196.6	
208+50					
80R			15.0	197.6	
209+00					
80R			7.2	205.4	
209+50					
80R			2.8	210.8	
210+00					
80R			1.7	211.9	
T.P	5.01	218.43	0.17	213.42	

210+50	218.43			
80R		4.6	213.8	
211+00				
80R		0.7	217.7	
211+50				
80R		0.0	218.4	
212+00				
80R		0.0	218.4	
212+50				
80R		0.3	218.1	
213+00				
80R		+1.0	219.4	
213+26.85 B.C				
80R		+2.3	220.7	
213+50				
80R		+1.3	219.7	
214+00				
80R		+1.2	219.6	
214+50				
80R		0.6	217.8	
215+00				
80R		0.8	217.6	
215+50				
80R		+0.5	218.9	
216+00				
80R		0.7	217.7	

216+50	218.43			
80R		3.4	215.0	
217+00				
80R		5.4	213.0	
217+50				
80R		7.5	210.9	
218+00				
80R		9.7	208.7	
218+50				
80R		8.6	209.8	
219+00				
80R		6.6	211.8	
219+68.83 = 219+83.76 E.C. (back on Lt.)				
80R		4.5		
BM	12.48	230.55	0.36	218.07 Post R+ 219+00
50L		3.8	226.8	
TP	12.41	239.89	3.07	227.48
65L		9.4	230.5	
70L		7.2	232.7	
219+00				
70L		5.8	234.1	
50L		9.5	230.4	
45L		14.0	225.9	

218+50		239.89			
TOL			1.0	238.9	
50L			7.3	232.6	✓
42L			14.5	225.4	
218+00					
48L			5.0	234.9	235.5
TOL			+2.3	242.2	
T.P.	12.92	252.58	0.23	239.66	
BM #16			2.90	249.88	249.80
		252.50			
217+50					
TOL			11.7	240.8	232.9
217+00					
TOL			6.8	245.7	238.0
216+50					
TOL			+0.5	253.0	
216+00					
TOL			+2.0	254.5	
215+50					
TOL			+2.0	254.5	
TP	1.23	264.59	0.25	252.25	
215+00					
TOL			11.8	252.9	
214+50					
TOL			8.0	256.6	
T.P.	4.69	262.88	6.40	258.19	

214+00		262.88			
TOL			+3.3	266.2	
213+50					
TOL			4.7	258.2	
213+26.85 B.C.					
TOL			12.5	250.4	
213+00					
TOL			24.6	238.3	
212+50					
TOL			16.7	246.2	
212+00					
TOL			19.8	243.1	
211+50					
TOL			17.6	245.3	
211+00					
TOL			15.7	247.2	
T.P.	5.09	257.05	10.92	251.96	
210+50					
TOL			16.3	240.7	
210+00					
TOL			14.8	242.2	
209+50					
TOL			14.2	242.8	
209+00					
TOL			12.9	244.1	

208+50	257.05				
TOL			8.1	248.9	
208+00					
TOL			7.9	249.1	
207+50					
TOL			13.0	244.0	
207+00					
TOL			6.5	250.5	
206+50					
TOL			6.4	250.6	
206+00					
TOL			15.6	241.4	
T.P. 0.21	244.86		12.40	244.65	
205+50					
TOL			15.5	228.4	
T.P. 4.97	239.03		10.80	234.06	
205+00					
TOL			14.0	225.0	
204+50					
TOL			13.3	225.7	
204+00					
TOL			12.7	226.3	
BM#15			12.91	226.12	
203+50					
TOL			12.9	226.1	

203+00	239.03			
TOL		7.1	231.9	
202+60				
TOL		5.6	233.4	
202+00				
TOL		5.5	233.5	
201+50				
TOL		11.6	227.4	
T.P. 1.09	227.52	12.60	226.43	
201+00				
TOL		11.6	215.9	
200+50				
TOL		7.3	220.2	
200+00				
TOL		8.8	218.7	
52L		15.5	212.0	
199+00				
TOL		14.0	213.5	
T.P. 1.78	216.49	12.81	214.71	
56L		13.0	203.5	
198+00				
59L		14.1	202.4	
64L		9.3	207.2	
TOL		7.7	208.8	

197+61.75 E.C.			216.49		
70L		8.4	208.1		
60L		10.6	205.9		
57L		14.3	202.2		
197+00					
50L		14.8	201.7		
53L		11.6	204.9		
70L		8.2	208.3		
196+50					
70L		10.9	205.6		
196+00					
70L		5.4	211.1		
195+50					
70L		+0.5	217.0		
T.P. 8.56	222.87	2.18	214.31		
195+00					
45L		13.1	209.7	211.0	
70L		6.7	216.2		
194+50					
70L		12.9	210.0		
194+00					
70L		4.6	218.3		
192+99.94					
70L		2.6	220.3		

192+00	222.87				
70L		12.1	210.8		
191+50					
70L		8.5	214.4		
BM#20	0.35	294.95		294.60	
250+00					
70L		23.5	271.4	270.5	
250+50					
70L		10.5	283.5	278.2	
251+00					
70L		+1.9	296.9	291.5	
251+50					
70L		11.1	283.8	275.5	
252+00					
70L		8.5	286.4	283.4	
TP 8.31	303.00	0.26	294.69		
252+50					
70L		3.8	299.2	294.9	
253+00					
70L		3.8	299.2	293.5	
TP 2.19	292.67	12.52	290.48		
253+60					
70L		17.2	275.5	271.3	

254+00	292.67				
70L			22.3	270.4	
60L			25.3	267.4	(266.0)
254+20					
70L			15.0	277.7	(272.7)
254+60.24 E.C.					
70L			2.7	290.0	(284.5)
255+00					
T.P.	12.94	302.28	3.33	289.34	
70L			5.8	296.5	(290.0)
255+50					
70L			0.7	301.6	(296.0)
T.P.	12.48	313.43	1.33	300.95	
256+00					
70L			8.6	304.8	(299.8)
257+00					
70L			5.0	308.4	(303.4)
258+00					
70L			0.8	312.6	(309.3)
258+50					
70L			0.3	313.1	
50L			3.7	309.7	r
259+00					
70L			0.0	313.4	(310.0)
T.P.	6.30	316.03	3.70	307.73	
B.M #21			0.08	315.95	315.90

		315.98			
T.P.	0.45	303.98	12.45	303.53	
T.P.	0.14	291.49	12.63	291.35	
259+00					
63R			0.0	291.5	
75R			4.3	287.2	
80R			5.0	286.5	
258+50					
60R			3.2	288.3	
80R			8.0	283.5	
258+00					
80R			12.6	278.9	
60R			8.1	283.4	
257+00					
T.P.	0.85	279.35	12.99	278.50	
59R			5.0	274.4	
90R			13.0	266.4	
256+00					
90R			18.9	260.5	
255+50					
T.P.	0.44	267.36	12.43	266.92	
60R			2.6	264.8	
90R			12.4	255.0	
255+00					
90R			17.6	249.8	
T.P.	0.01	254.26	13.11	254.25	

254+60.99 Elev. 254.26			
90R	10.5	243.8	
254+20			
90R	12.1	242.2	
254+00			
90R	11.2	243.1	
253+60			
90R	9.3	245.0	
253+00			
75R	5.2	249.1	
80R	8.3	246.0	
90R	11.8	242.5	
252+50			
75R	10.9	243.4	
90R	12.8	241.5	
252+00			
75R	10.0	244.3	
90R	9.2	245.1	
251+50			
90R	6.9	247.4	
251+00			
90R	2.6	251.7	
250+50			
90R	0.3	254.0	
250+00			
90R	+0.4	254.7	

Cross Section of Private Rd.
East of Sta. 12+48.08 see F.B. 1325, pg. 4

Sta		+	H.I.	−	Elev.
BM. #1					25.46
		0.92	26.38		
				6.85	19.53
		3.03	22.56		
0+00	=	12+48.08		4.9	17.7
		0+50			
+10' S				5.5	17.1
℄				5.6	17.6
+10' N				4.8	17.8
		1+00			
+10' N				5.0	17.6
℄				5.5	17.1
+10' S				5.5	17.1
		1+50.			
+10' S				6.3	16.3
℄				5.9	16.7
+10' N				5.1	17.5
		2+00			
+10' N				5.3	17.3
℄				6.0	16.6
+10' S				6.5	16.1

X-Section Rd's. East of STA. 46+89 & 49+72 22
See. F.B. 1325, pg. 11

STA		+	H.I.	−	Elev.
BM. #	3				66.47
		13.05	79.47	✓	
50 E	0+00	= 49+72 28		4.2	75.1
℄				3.8	75.7
3 W.				3.5	76.0
16 W	T.P.			0.0	79.47
25 W.		9.00	88.47 ✓		
35 W				6.8	81.7
50 W				5.6	82.9
50 W	0+50			4.5	84.0
35 W				5.1	83.4
			79.47 ✓		
16 W				2.6	76.9
8 W				2.5	77.0
℄				3.8	75.7
26 E				3.6	75.9
30' - E				5.3	74.2
31 - E				9.2	70.3
		1+00			
30 - E				6.9	72.6
25 - E				5.8	73.7
11 - E				6.8	72.7
10 - E				3.2	76.3
℄				3.7	75.8
8 - W				3.4	76.1

Plotted 5-9-29 TEH

STA		+	H.I.	−	Elev.
10 - W			79.47	1.4	78.1
14 - W				1.5	78.0
10 - W				0.8	78.7
		1+42 40			
25 - W				2.1	77.4
14 - W				2.3	77.2
℄				3.6	75.9
15 - W (E?)				4.8	74.7
27 - W				6.2	73.3
		1+70 06			
20 - N				4.2	75.3
7 - N				5.8	73.7
℄				5.7	73.8
12 - S				4.4	75.1
15 - S				3.6	75.9
20 - S				3.8	75.7
		1+92			
20 - S				7.7	71.8
8 - S				7.1	72.4
5 - S				7.7	71.8
℄				8.2	71.3
15 - N				8.5	71.0
20 - N				7.8	71.7
	T.P.			10.05	69.42
		1.65	71.07		

STA		+	H.I.	−	Elev.
		2+50	71.07		
28-N				12.8	58.3
15-N				8.0	63.1
℄				8.2	62.9
10-S				8.6	62.5
27-S				10.0	61.1
	T.P.			12.70	58.37
		1.55	59.92 ✓		
		3+00			
20-S				4.7	55.2
10-S				3.2	56.7
℄				4.0	55.9
17-N				5.0	54.9
29-N				5.7	54.2 Curve
		3+53	(x-section Right Angle with next)		
20-W				6.5	53.4
8-W				8.2	51.7
7-W				10.8	49.1
℄				10.9	49.0
6-E				11.2	48.7
10-E				6.5	53.4
25-E				7.1	52.8
		4+00			
20-E				8.8	51.1
7-E				9.1	50.8

STA		+	H.I.	−	Elev.
℄			59.52	10.5	49.0
14-W				9.8	49.7
30-W				8.2	51.3
BM. # 2					66.42
		1+70.40	= 1+80.50 ✓		
		13.30	79.72 ✓		
20-W				6.3	73.4
9-W				5.9	74.3
℄				6.0	73.7
12-E				4.7	75.0
17-E				5.3	74.4
28-E				6.0	73.7
		1+50			
20-E				4.7	75.0
2-E				1.2	78.7
℄				2.0	77.7
20-W	T.P.			0.0	79.72
		8.10	87.82 ✓		
		1+00			
20-W				5.6	82.2
6-W				5.0	82.8
5-W				7.0	80.8
℄				7.0	80.8
4-E				6.9	80.9
5-E				5.6	82.2

STA		+	H.I.	-	Elev.
20-E			87.82	10.8	77.0
		0+50			
20-E				10.2	77.6
10-E				5.5	82.3
℄				6.5	81.3
15-W				6.5	81.3
20-W				4.7	83.1
	T.P.			11.20	76.62
		1.20	77.82 ✓		
	X-Section Private Rd. east of STA. 42+16 30				
	See F.B. 1325, pg. 10				
0+00 =	42+16 30		77.82		
℄				8.0	69.8
		0+50			
14-W				8.9	68.9
℄				8.2	69.6
14-E				7.8	70.00
20-E	Plotted 6-9-29 TGH			10.2	67.6
		1+00			
20-E				12.9	64.9
6-E				6.6	71.2
4-E				9.6	68.2
℄				9.7	68.1
4-W				9.8	68.0
11-W				5.5	72.3

STA		+	H.I. (77.82)	-	Elev.
20-W				6.7	71.1
		1+50			
20-W				9.1	68.7
8-W	T.P.			13.10	64.72
		3.20	67.92 ✓		
4-W				5.7	62.2
℄				6.0	61.9
5-E				5.4	62.5
20-E				8.4	59.5
		2+00			
20-E				13.0	54.9
5-E				10.8	57.1
℄				11.2	56.7
5 W				10.9	57.0
20 W				6.6	61.3
	T.P.			13.0	54.92
		0.80	55.72 ✓		
		2+50 (X-Section 1/2 central ℄)			
20-E				3.6	52.1
12-E				3.3	52.4
℄				3.3	52.4
20-W				1.9	54.3
		3+00			
12-N				8.5	47.2
℄				8.0	47.7
20-S				7.9	47.8

X-Section San Clemente Canyon Rd. east of STA. 87+60. See F.B. 13285, pg. 19

STA		+	H.I.	-	Elev.
BM. # 5					92.15
		13.05	105.20 ✓		
	T.P.			0.0	105.20
	Hand Level	13.0	118.20		
0+00	= 87+60			8.0	110.2
	Instr.	0+65	(105.20) ✓		
30-E				4.2	101.0
10-E				2.2	103.0
℄				1.9	103.3
15-W				0.0	105.2
30-W				+ 1.2	104.0
		1+00			
30-W				0.7	104.5
11-W	plotted 9-3-9 T.B.H.			2.6	102.6
℄	5			4.3	100.9
10-E				4.4	100.8
30-E				6.5	98.7
		1+50			
30-E				9.9	95.3
10-E				7.2	98.0
℄				6.8	98.4
13-W				5.0	100.2
30-W				3.8	101.4
		1+73			
30-W				4.3	100.9

STA	+	H.I.	-	Elev.
10-W		105.20	7.0	98.2
℄			7.3	97.9
10-E			8.0	97.2
30-E			10.6	94.6
	2+00			
30-E			10.0	95.2
20-E			8.4	96.8
℄			7.5	97.7
15-W			5.8	99.4
30-W			4.0	101.2
	2+50			
30-W			3.0	102.2
14-W			5.1	100.1
℄			6.6	98.6
14-E			8.1	97.1
30-E			8.7	96.5
	3+00			
30-E			11.5	93.7
17-E			9.3	95.9
℄			8.0	97.2
7-W			7.7	97.5
10-W			6.1	99.1
30-W			4.2	101.00
T.P.			9.95	95.25
	7.65	102.90 ✓		

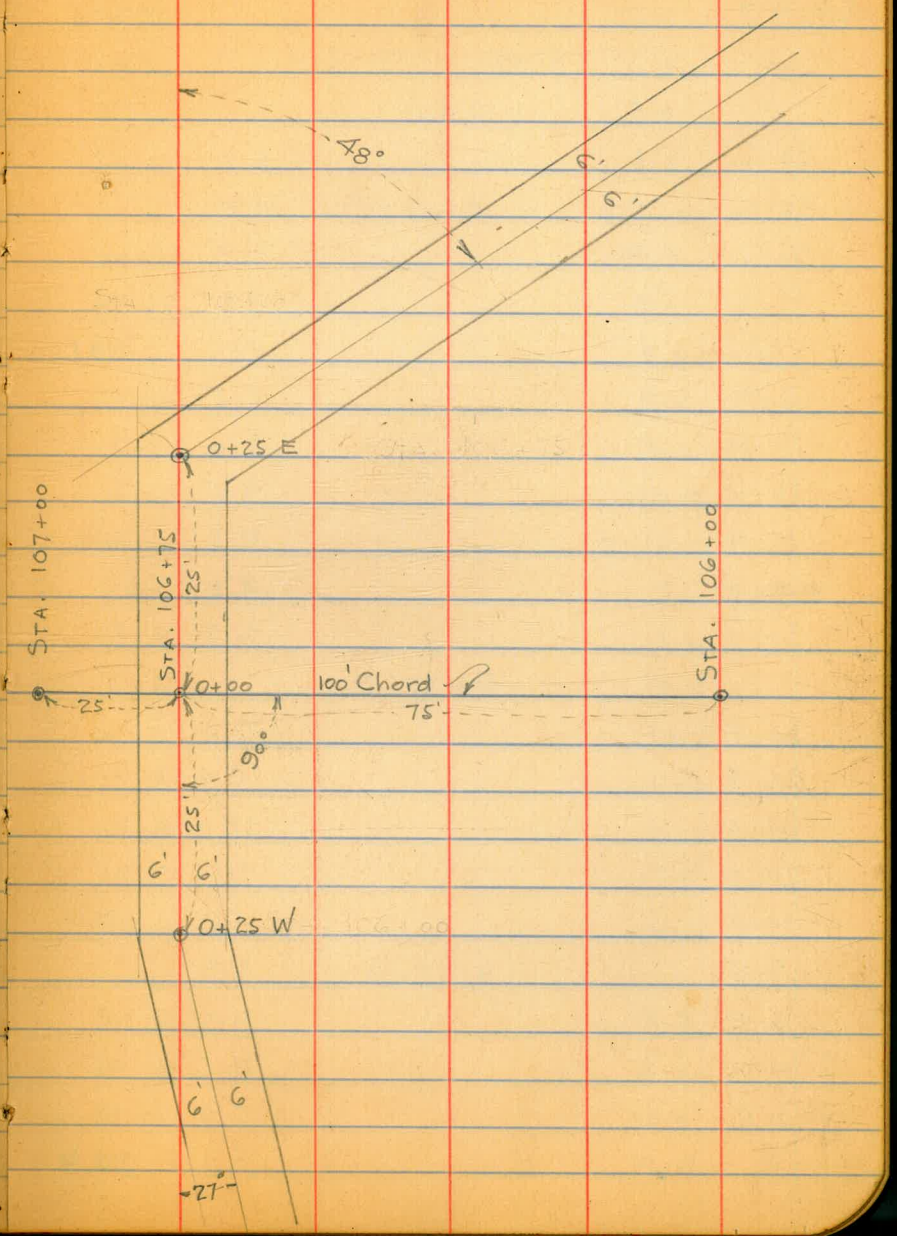
Sta		+	H.I.	-	Elev
		3+50			
30-W			102.90	4.3	98.6
℄				6.6	96.3
8-E				7.2	95.7
30-E				9.9	93.0
		4+00			
30-E				10.6	92.3
16-E				8.2	94.7
℄				7.6	95.3
5-W				7.3	95.6
8-W				5.8	97.1
30-W				3.7	99.2
		4+50			
30-W				6.6	96.3
10-W				8.0	94.9
8-W				9.5	93.4
℄				10.1	92.8
10-E				10.4	92.5 ✓
30-E				12.8	90.1
	T.P.			12.0	90.90
		6.20	97.10 ✓		
		5+00			
30-E				10.2	86.9
11-E				8.0	89.1
5-E				6.9	90.2

Sta		+	H.I.	-	Elev
℄			97.1	6.5	90.6
10-W				6.0	91.1
15-W				4.8	92.3
30-W				3.0	94.1
		5+50			
30-W				6.0	91.1
℄				8.1	89.0
5-E				8.2	88.9
20-E				9.8	87.3
		6+00			
30-E				13.2	83.9
℄				11.0	86.1
30-W				10.1	87.0
	T.P.			14.80	84.30
		5.00	89.30 ✓		
		6+50			
30-W				3.8	85.5
℄				4.9	84.4
30-E				7.2	82.1
		7+00			
30-E				7.3	82.0
10-E				5.7	83.6
℄				5.2	84.1
30-W				4.0	85.3

STA		+	H.I.	Elev. −	Rod. ~~Elev.~~
		7+50	89.30	~~89.30~~	
30-W				85.7	3.6
℄				84.1	5.2
30-E				81.5	7.8
		8+00			
26-E				81.8	7.5
℄				84.4	4.9
30-W				86.6	2.7
		8+50			
30-W				87.2	2.1
10-W				85.1	4.2
℄				84.4	4.9
25-E				82.1	7.2
		9+00			
28-E				80.7	8.6
℄				84.3	5.0
30-W				87.4	1.9

X-Section Cattle Pass at STA. 106+75

STA	+	H.I.	−	Elev.



Sta		+	H.I.	−	Elev.
BM. # 7					107.70
		10.98	118.68 ✓		
		0+00			
30-L				5.8	
24-L				4.9	
16-L				6.4	
7-L				7.6	
℄				6.6	112.1
5-R				5.5	
7-R				5.0	
15-R				9.5	
17-R				9.3	
22-R				4.8	
30-R				11.8	
		0+25 E			
30-R				6.5	
26-R				6.8	
24-R				10.1	
19-R				11.4	
14-R				6.5	
7-R				8.3	
6-R				11.2	
4-R				11.6	
3-R				8.4	
℄				8.1	110.6

Sta		+	H.I.	−	Elev.
6-L				7.0	
10-L				6.4	
15-L				7.9	
30-L				8.8	
		0+50 E			
30-L				9.3	
17-L				8.0	
11-L				8.0	
6-L				9.8	
6-L				13.4	
4-L				13.9	
4-L				10.1	
℄				9.5	109.2
3-R				8.6	
6-R				10.5	
10-R				12.5	
13-R				11.6	
17-R				11.1	
19-R				7.8	
30-R				6.0	
		0+75 E			
30-R				6.8	
19-R				8.7	
18-R				10.9	
12-R				13.4	

Sta		+	H.I. 118.68	−	Elev.
9-R				12.7	
7-R				9.3	
6-R				9.0	
℄				9.3	109.4
2-L				10.6	
3-L				14.3	
6-L				14.3	
9-L				13.9	
9-L				12.1	
19-L				9.1	
30-L				9.8	
		1+00 E			
30-L				11.3	
16-L				10.5	
11-L				12.0	
10-L				15.0	
6-L				15.0	
3-L				14.3	
3-L				12.7	
℄				13.1	105.6
6-R				14.1	
10-R				13.9	
11-R				11.1	
15-R				10.9	
16-R				12.7	

Sta		+	H.I.	−	Elev.
18-R				12.9	
19-R				11.1	
30-R				10.5	
		1+25 E			
30-R				12.5	
16-R				13.3	
14-R				14.0	
9-R				13.2	
6-R				13.3	
4-R				13.5	
℄				15.6	103.1
4-L				16.5	
6-L				15.2	
9-L				13.7	
10-L				12.8	
30-L				13.5	
	T.P.			13.0	105.68
	Hand Level	3.0	108.68		
		1+35 E			
30-L				4.5	
6-L				3.7	
5-L				5.0	
2-L				6.5	
1-L				7.8	
℄				8.6	100.1

Sta		+	1087 H.I.	−	Elev.
2-R				8.4	
3-R				6.3	
6-R				5.0	
7-R				3.9	
13-R				4.1	
19-R				4.0	
30-R				3.0	
		1+75 E			
30-R				7.1	
	T.P.			6.0	102.68
		4.0	106.68		
26-R				5.4	
25-R				8.2	
20-R				8.0	
19-R				5.6	
11-R				4.6	
6-R				5.0	
℄				4.8	101.9
6-L				4.7	
30-L				4.5	
		Instr.	118.68 ✓		
		0+25 W			
30-R				4.8	
25-R				5.8	
24-R				6.5	

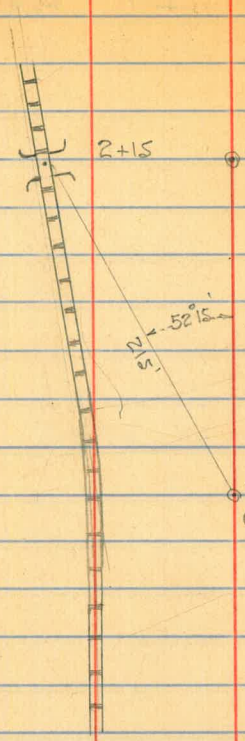
Sta		+	1187 H.I.	−	Elev.
20-R				6.8	
16-R				5.2	
7-R				4.7	
6-R				4.7	
1-R				4.8	
℄				6.4	112.3
4-L				8.0	
6-L				8.0	
14-L				6.9	
19-L				3.1	
26-L	T.P.			0.0	118.68
		6.98	125.66 ✓		
35-L				2.9	
		0+50 W			
30-L				3.8	
13-L				4.1	
6-L				7.9	
℄				9.4	109.3
6-R				9.7	
16-R				10.4	
22-R				10.5	
24-R				11.6	
26-R				10.7	
30-R				10.3	

STA		+	118.7 H.I.	−	Elev.
		0+75 W			
30-R				7.N	
25-R				5.N	
6-R				4.6	
℄				4.8	113.9
6-L				4.6	
16-L				4.N	
30-L				3.7	
		1+00 W			
30-L				2.3	
16-L				4.3	
11-L				6.8	
9-L				5.8	
6-L				5.4	
℄				5.4	113.3
6-R				4.0	
30-R				5.1	
		1+25 W			
30-R				4.6	
19-R				4.8	
17-R				4.0	
6-R				3.8	
℄				3.5	115.N
4-L				3.1	
5-L				4.1	

STA		+	H.I.	−	Elev.
6-L				4.1	
10-L				4.0	
20-L					
	T.P.			3.1N	122.59
		10.45	132.99		
30-L				7.0	
		1+50 W			
30-L				7.0	
18-L				11.1	
13-L				10.3	
6-L				10.6	
℄				10.6	123.N
6-R				10.5	
19-R				10.6	
30-R				10.6	
		1+75 W			
30-R				10.N	
14-R				9.N	
6-R				8.8	
℄				8.6	124.N
6-L				8.7	
17-L				9.5	
23-L				10.1	
30-L				7.8	

Sta		+	133° H.I.	−	Elev.
		2+00 W			
30-L				8.4	
23-L				8.9	
6-L				8.3	
℄				8.5	124.5
6-R				8.1	
22-R				7.4	
30-R				5.8	
		2+25 W			
30-R				3.8	
14-R				5.5	
6-R				6.4	
℄				7.6	125.4
6-L				7.7	
19-L				7.4	
30-L				6.8	
		2+50 W			
30-L				5.4	
16-L				5.4	
8-L				5.4	
6-L				7.3	
℄				6.6	126.4
6-R				5.4	
30-R				0.5	

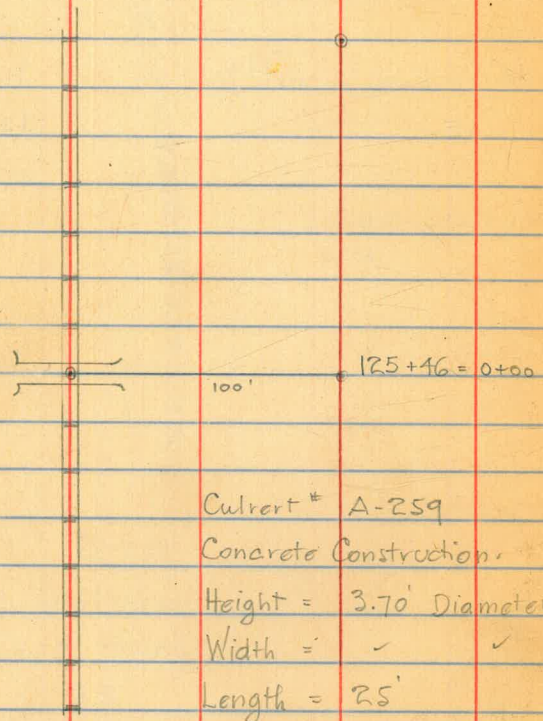
Culverts along S.F. R.R. in relation To ℄ Rose Canyon Road.



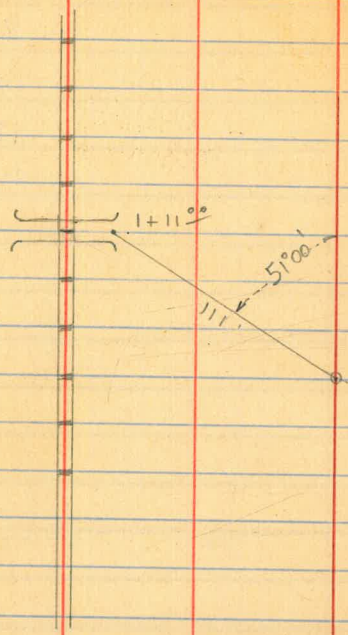
Culvert # B-259
Timber Construction
Height = 4' inside
Width = 15.5' "
Length = 15' inside
Eler. W.End = 80.58
" E. " = 78.48

STA		+	H.I.	−	Eler.
BM # 8					86.66
		5.42	92.08 ✓		
0+00				4.0	
+50				5.5	
1+00				6.6	
+50				6.8	
2+00	W. End Culvert			11.5	
	E. " "			13.6	

Sta		+	H.I.	−	Elev.
BM. # 9					93.95
		2.9 ✓	96.87 ✓		
0+00				8.4	
+50				10.5	
+88	W. End Culvert			12.3 ✓	
	E " "			12.55	



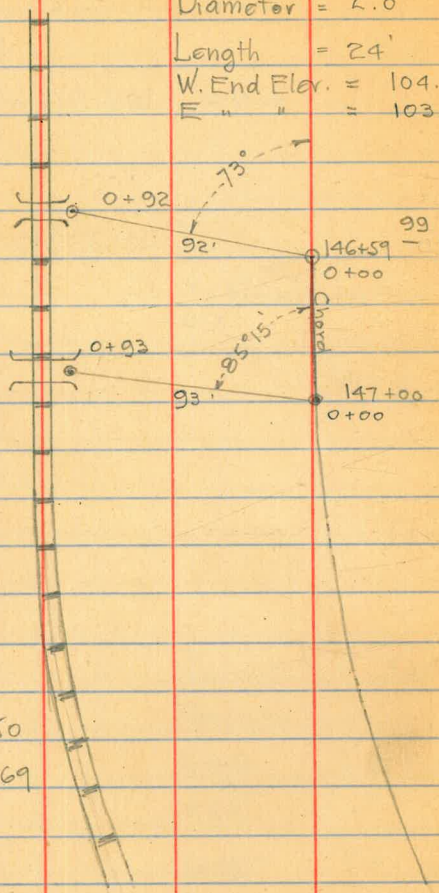
Culvert # A-259
Concrete Construction.
Height = 3.70' Diameter
Width = ✓ ✓
Length = 25'
Elev. W. End = 84.55
" E. " = 84.32



Culvert # F-258
Concrete Constr.
Height = 2.80' Dia.
Width = ✓ ✓
Lenght = 24'
Elev. W. End = 99.21'
" E " = 98.69'

STA		+	H.I.	−	Elev.
BM # 10					109.80
		2.48	112.28		
	T.P.			7.51	104.77
		4.99	109.76	✓	
0+00				6.3	
+50				7.3	
1+00				9.3	
1+11	W. End	Culvert		10.55	
	E. "	"		11.07	

Culvert # E-258
Concrete Constr.
Diameter = 2.0'
Length = 24'
W. End Elev. = 104.53
E " " = 103.30



Culvert
Trestle Constr.
Height = 2.0'
Width = 15'
Length = 15'
Elev. W. End = 105.50
" E. End = 104.69

STA		+	H.I.	−	Elev.
BM # 10					109.80
		9.75	119.55 ✓		
0+00				3.7	
+50				7.1	
+92'	West End Elev.			15.02	
	East " "			16.25	
			119.55 ✓		
0+00				2.9	116.7
+50				10.4	109.1
+93	W. End Elev.			14.05	105.5
	E. " "			14.86	104.6

X-Section E¼ R.R. Right o' Way from ℄ 1st Trestle = Lowdon's 0+50 North To ℄ 2nd Trestle.

Sta		+	H.I.	−	Elev.
B.M. # 11					116.91
		3.69	120.60	✓	
	T.P.			13.0	107.60
	Hand Level	0.0	107.60		
0+00	= 0+50 (Lowdon's)			7.2	100.4
+9				7.1	100.5
+14				5.0	102.6
+31				3.9	103.7
+37				2.0	105.6
+38				0.0	107.6
1+00		Instr.	120.60 ✓	11.5	109.1
+23				10.8	109.8
+50				8.2	112.4
2+00				4.7	115.9
+50				5.4	115.2
3+00				5.0	115.6
+50				5.3	115.3
4+00				4.8	115.8
+50				4.5	116.1
	T.P.			3.74	116.86
		8.74	125.60 ✓		
5+00				9.8	115.8

71

Sta		+	(125.6) H.I.	−	Elev.
5+50				9.6	116.0
6+00				9.5	116.1
+50				8.3	117.3
7+00				7.7	117.9
+18				6.0	119.6
+28				5.4	120.2
+28				11.0	114.6
	T.P.			13.0	112.60
	Hand Level	2.0	114.60		
+58				2.0	
+71	℄ 2nd Trestle			3.6	111.0

X-Section Private Rd. East of STA 168+53 leading To Dairy Ranch. Sec F.B. 1325, pg. 70 35

72

STA		+	H.I.	−	Elev.
BM. #12					131.00
		12.56	143.56 ✓		
		0+00			
15W				2.0	141.6
℄				3.6	140.0
15E				4.2	139.4
		0+50			
15E				9.0	134.6
℄				8.8	134.8
15W				8.8	134.8
	Plotted 5-10-29 T.G.H.	1+00			
15W				11.6	132.0
℄				11.8	131.8
15E				12.3	131.3
		1+40			
15E				13.3	130.3
℄				13.0	130.6
15W				12.9	130.7
		2+00			
15W				18.2	125.4
℄	Top of Small Pondage			13.7	129.9
15E				18.2	125.4

STA	+	H.I.	−	Elev.
15E	2+30			
		143.56	14.7	128.9
℄			13.3	130.3
15W			12.6	131.0
	2+50			
15W			12.3	131.3
℄			12.7	130.9
15E			14.1	129.5
	3+00			
15E			9.5	134.1
℄			9.9	133.7
15W			10.1	133.5
	3+50			
15W			6.2	137.4
℄			6.2	137.4
15E			5.9	137.7
	4+00			
15E			2.5	141.1
℄			2.9	140.7
15W			1.9	141.7
	4+29			
15W			1.1	142.5
℄			1.1	142.5
15E			1.3	142.3

X-Section of Roads to Sorrento & Rifle Range

for Alignment see F.B. 1325, pg. 64

Sta		+	H.I.	−	Elev.
BM.#					354.96
		2.65	357.61		
0+00	20 E			12.4	345.2
	15 E			12.4	345.2
	12 E			14.7	342.9
	℄			14.1	343.5
	10 W			14.8	342.8
	12 W			14.8	342.8
	15 W			11.1	346.5
	20 W			11.1	346.5
1+00	20 W			9.0	348.6
	16 W			9.6	348.0
	11 W			11.1	346.5
	℄			10.7	346.9
	14 E			11.3	346.3
	15 E			10.5	347.1
	20 E			10.5	347.1
2+00	20 E			8.0	349.6
	14 E			6.9	350.7
	14 E			7.6	350.00
	℄			7.1	350.5
	14 W			7.3	350.3
	15 W			6.1	351.5
	20 W			6.1	351.5

Plotted 5-10-29 T.H.

Sta			+	H.I.	−	Elev.
3+00	20 W			357.61	1.3	356.3
	℄				2.8	354.8
	14 E				3.2	354.4
	20 E				3.2	354.4
		T.P.			0.00	357.61
			11.85	369.46		
4+00	20 E				11.8	357.7
	12 E				10.9	358.6
	11 E				11.5	358.0
	℄				10.3	359.2
	8 W				11.0	358.5
	14 W				9.6	359.9
	20 W				8.7	360.8
5+00	20 W				4.0	365.5
	15 W				4.1	365.4
	10 W				6.2	363.3
	℄				5.2	364.3
	10 E				6.7	362.8
	13 E				5.6	363.9
	20 E				5.3	364.2
		T.P.			0.57	368.89
			7.64	376.53		
6+00	20 E				6.9	369.6
	10 E				8.4	368.1
	℄				7.6	368.9

73

Sta		+	H.I.	−	Elev.
	8 W		376.53	8.2	368.3
	15 W			7.1	369.4
	20 W			6.6	369.9
6+85	20 W			4.0	372.5
	7 W			5.8	370.7
	℄			6.0	370.5
	11 E			6.6	369.9
	20 E			7.3	369.2
7+65	20 E			8.9	367.6
	10 E			6.2	370.3
	℄			6.3	370.2
	6 W			6.4	370.1
	8 W			6.0	370.5
	15 W			6.7	369.8
	20 W			6.0	370.5
	T.P.			6.10	370.43
		9.25	379.68		
9+00	20 W			9.9	369.8
	15 W			10.0	369.7
	℄			9.3	370.4
	12 E			10.1	369.6
	18 E			11.2	368.4
	20 E			10.7	369.0
10+00	20 E			7.8	371.9
	14 E			9.3	370.4

Sta		+	H.I.	−	Elev.
	℄		379.68	8.3	371.4
	11 W			8.6	371.1
	15 W			8.0	371.7
	20 W			7.7	372.0
11+00	20 W			6.5	373.2
	15 W			6.6	373.1
	8 W			7.7	372.0
	℄			7.2	
	15 E			8.3	
	20 E			7.3	
12+00	20 E			6.4	
	15 E			7.4	
	℄			6.2	
	8 W			6.3	
	15 W			5.3	
	20 W			5.9	
13+00	20 W			4.4	
	15 W			4.3	
	8 W			5.2	
	℄			5.1	
	15 E			6.2	
	20 E			5.9	
14+00	20 E			4.0	
	15 E			4.8	
	℄			4.0	

Sta		+	H.I.	−	Elev.
8	W			4.1	
15	W			3.9	
20	W			3.7	
15+00 20	W			2.4	
15	W			3.1	
11	W			3.4	
℄				3.3	
14	E			4.3	
20	E			4.5	
16+00 20	E			4.2	
12	E			4.7	
℄				3.9	
14	W			3.4	
20	W			2.5	
17+00 20	W			4.0	
15	W			4.1	
9	W			5.1	
℄				4.9	
12	E			6.0	
20	E			5.4	
	T.P.			5.23	374.45
		2.55	377.00		
18+00 20	E			4.6	
12	E			4.4	
℄				3.7	

Sta		+	H.I.	−	Elev.
8	W		3770	3.9	
15	W			2.7	
20	W			2.5	
19+00 20	W			3.6	
15	W			3.8	
9	W			4.7	
℄				4.9	
10	E			5.2	
20	E			5.2	
20+00 20	E			5.2	
11	E			5.7	
℄				5.0	
12	W			5.4	
16	W			4.0	
20	W			3.8	
21+00 20	W			4.1	
15	W			4.2	
9	W			5.5	
℄				5.5	
11	E			6.0	
16	E			5.5	
20	E			5.5	
	T.P.			6.38	370.62
		12.21	382.83		

Sta		+	H.I.	−	Elev.
21+77	Right angles with last Alignment				
20 E			382.83	14.3	
℄				12.3	
9 W				12.5	
15 W				11.3	
20 W				11.3	
21+77	Right angles with following Alignment				
20 N				11.6	371.2
12 N				12.6	370.2
℄				12.3	370.5
20 S				13.4	369.4
22+00					
20 S				12.W	370.6
℄				11.9	370.9
8 N				12.2	370.6
15 N				11.W	371.6
20 N				11.W	371.6
23+00					
20 N				7.1	375.7
15 N				7.3	375.5
10 N				7.7	375.1
7 N				8.9	373.9
℄				8.6	374.2
11 S				9.1	373.7
12 S				8.1	374.7

Sta		+	H.I.	−	Elev.
20 S			382.83	8.1	374.7
24+00					
20 S				6.0	376.8
10 S				5.5	377.3
9 S				6.0	376.8
℄				5.5	377.3
8 N				5.8	377.0
12 N				4.8	378.0
15 N				4.6	378.2
20 N				4.5	378.3
	T.P.			2.11	380.72
		11.02	391.74		
25+00					
20 N				10.3	381.4
15 N				10.5	381.2
12 N				10.5	381.2
9 N				10.7	381.0
℄				11.1	380.6
9 S				11.4	380.3
20 S				11.6	380.1
26+00					
20 S				11.6	380.1
15 S				11.3	380.4
8 S				9.W	382.5
℄				9.0	382.7

Sta		+	H.I.	−	Elev.
	12 N		391.74	9.1	382.6
	20 N			10.0	381.7
27+00					
	20 N			5.1	386.6
	13 N			6.0	385.7
	℄			5.7	386.0
	10 S			5.9	385.8
	20 S			7.0	384.7
28+00					
	20 S			4.7	387.0
	9 S			2.9	388.9
	℄			2.3	389.4
	16 N			2.6	389.1
	20 N			2.0	389.7
	T.P.			0.78	390.96
		12.48	403.44		
29+00					
	20 N			8.1	395.3
	15 N			8.3	395.1
	13 N			9.6	393.8
	℄			9.2	394.1
	10 S			9.6	393.8
	20 S			10.8	392.6

Sta		+	H.I.	−	Elev.
30+00			403.44		
	20 S			6.9	396.5
	7 S			5.8	397.6
	℄			5.7	397.7
	12 N			6.2	397.2
	16 N			5.2	398.2
	20 N			4.3	399.1
31+00					
	20 N			0.9	402.5
	12 N			1.4	402.0
	6 N			3.1	400.3
	℄			3.0	400.4
	16 S			2.7	400.7
	20 S			2.4	401.0
31+77.81					
	20 S			2.4	401.0
	14 S			2.0	401.4
	12 S			2.5	400.9
	℄			2.2	401.2
	10 N			2.6	400.8
	20 N			0.8	402.6
32+00					
	20 N			1.4	402.0
	10 N			3.0	400.4
	℄			2.5	400.9

Plotted 5-11-29 T&H.

Sta		+	H.I.	−	Elev.
13	S		403.44	2.7	400.7
20	S			2.9	400.5
	T.P.			5.31	398.13
		3.13	401.26		
33+00					
20	S			4.6	396.7
13	S			3.6	397.7
℄				3.1	398.2
15	N			4.0	397.3
20	N			3.0	398.3
33+97 10					
20	N			5.0	396.3
15	N			6.1	395.2
10	N			4.8	396.5
℄				4.5	396.8
11	S			4.9	396.4
20	S			6.3	395.0
BM #24	394.99			6.31	394.95

Sta		+	H.I.	−	Elev.

Sta		+	H.I.	−	Elev.

Sta		+	H.I.	−	Elev.

Sta		+	H.I.	−	Elev.

IMPROVED TABLES AND INFORMATION

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

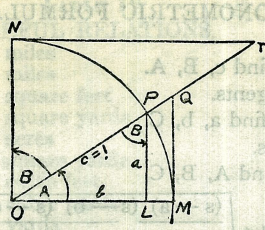


TABLE II

TRIGONOMETRIC FORMULÆ.

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$R = OB = c = 1$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot P = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

$$\text{vers } A = \frac{LM}{OP} = LM = \text{covers } B$$

$$\text{covers } A = \frac{OP - LP}{OP} = OP - LP = \text{vers } B$$

$$\text{exsec } A = PQ = \text{coexsec } B$$

$$\text{coexsec } A = PT = \text{exsec } B$$

$$\sin \tfrac{1}{2} A = \sqrt{\frac{1 - \cos A}{2}} \qquad \cos \tfrac{1}{2} A = \sqrt{\frac{1 + \cos A}{2}}$$

$$\sin 2A = 2 \sin A \cos A \qquad \cos 2A = \cos^2 A - \sin^2 A$$

$$\text{Law of Sines} \quad \frac{\sin A}{a} = \frac{\sin B}{B} = \frac{\sin C}{C}$$

$$\text{Law of Cosines} \quad c^2 = a^2 + b^2 - 2ab \cos C$$

$$\text{Law of Tangents} \quad \frac{a+b}{a-b} = \frac{\tan \tfrac{1}{2}(A+B)}{\tan \tfrac{1}{2}(A-B)}$$

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA.

11.83
1.72
13.55
3.80
10.25

20
3.85
1.05

119.55
14.86
104.69

39.74
0.78
390.96

14.55
3.70
16.25

403.44
5.31
398.13

140.60
3.74
116.86
8.74
125.60

{ 219+83 7.6
{ 249+50

219
169
50

401.26
6.35
394.99

96.87
14.32
84.55

96.87
14.55
84.32

6.27

92.08
11.50
80.58

92.08
13.60
78.48

109.76
10.55
99.21

109.76
11.07
98.69