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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.

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

MICROFILMED

APR 12 1965

Grade Change on Richmond
St. bet Brooks Ave + Cypress St.

6127

6107

5787

5767

5747

5727

5707

4787

Indexed Complete

West
Curb Grds

Gutter
Grds

BB 4

Gutter
Grds

East 1
Curb grds

262.90 262.35 261.68

262.21 262.88 262.93

263.27 263.62 262.95

263.37 264.00 264.05

265.26 265.21 264.54

264.76 265.43 265.48

267.18 267.13 266.46

266.53 267.20 267.25

269.42 269.37 268.70

268.63 269.30 269.35

271.28 271.63 270.96

270.77 271.44 271.49

273.67 273.62 273.95

272.66 273.33 273.38

275.39 275.34 274.67

274.30 274.97 275.02

W

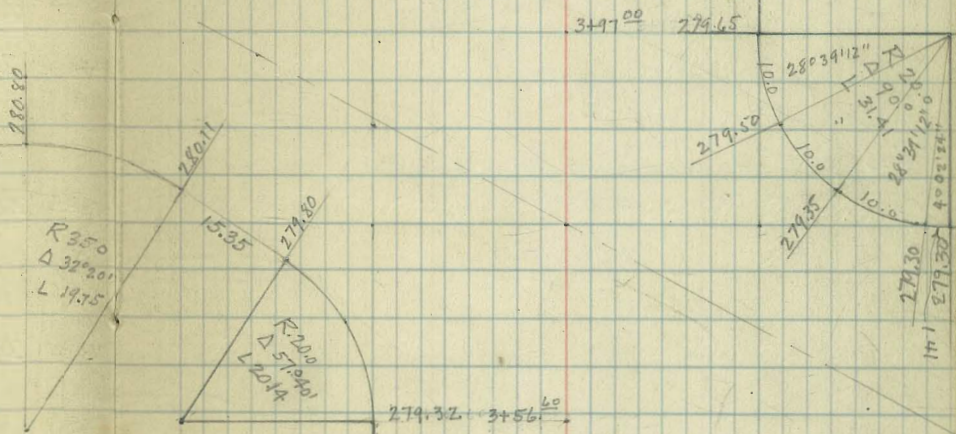
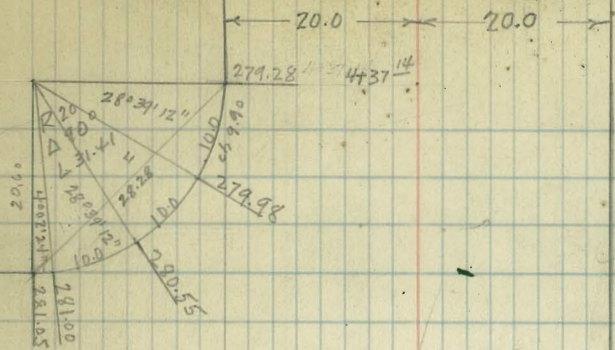
Curb Gutter

E

Gutter Curb ²

7497			262.85	262.80	262.13	265.13	265.80	265.85
7490 ⁵⁰	EG. Rt+Lt. 5° 02' 33"	17.08 ch	R 194.15	262.54	261.87	264.74	265.41	
7473 ⁸⁰	MC. 2° 31' 16.5"		Δ 10° 05' 10.6"	261.87	261.20	263.74	264.41	
			L 34.20					
			T 34.13					
			C 34.13					
			Det. per					
7457		17.08 "	261.25	261.20	260.53	262.73	263.40	263.45
7456 ²⁰	PRC. Rt+Lt. 5° 02' 33"	17.08 "	R 194.15	261.09	260.52	262.70	263.38	
7439 ⁶⁰	MC. 2° 31' 16.5"		Δ 10° 05' 10.6"	L 34.20	260.63	259.84	261.66	262.51
7437			T 34.13	260.41	260.56	259.80	261.50	262.38
		ch 17.08 "	C 34.13					
			Det. per					
7422 ⁵⁰	BC. Rt+Lt.			260.32	259.32	259.92	260.92	
7417	± Curb Inlet Lt+Rt.		260.28	260.23	259.23	260.74	261.74	261.77
6497			260.28	260.23	259.56	260.80	261.46	261.51
6477			260.58	260.53	259.86	261.00	261.55	261.60
6467			260.82	260.77	260.10	261.15	261.68	261.73
6447			261.45	261.40	260.73	261.45	262.12	262.17

Curb Returns from Richmond St. to Brooks Terrace



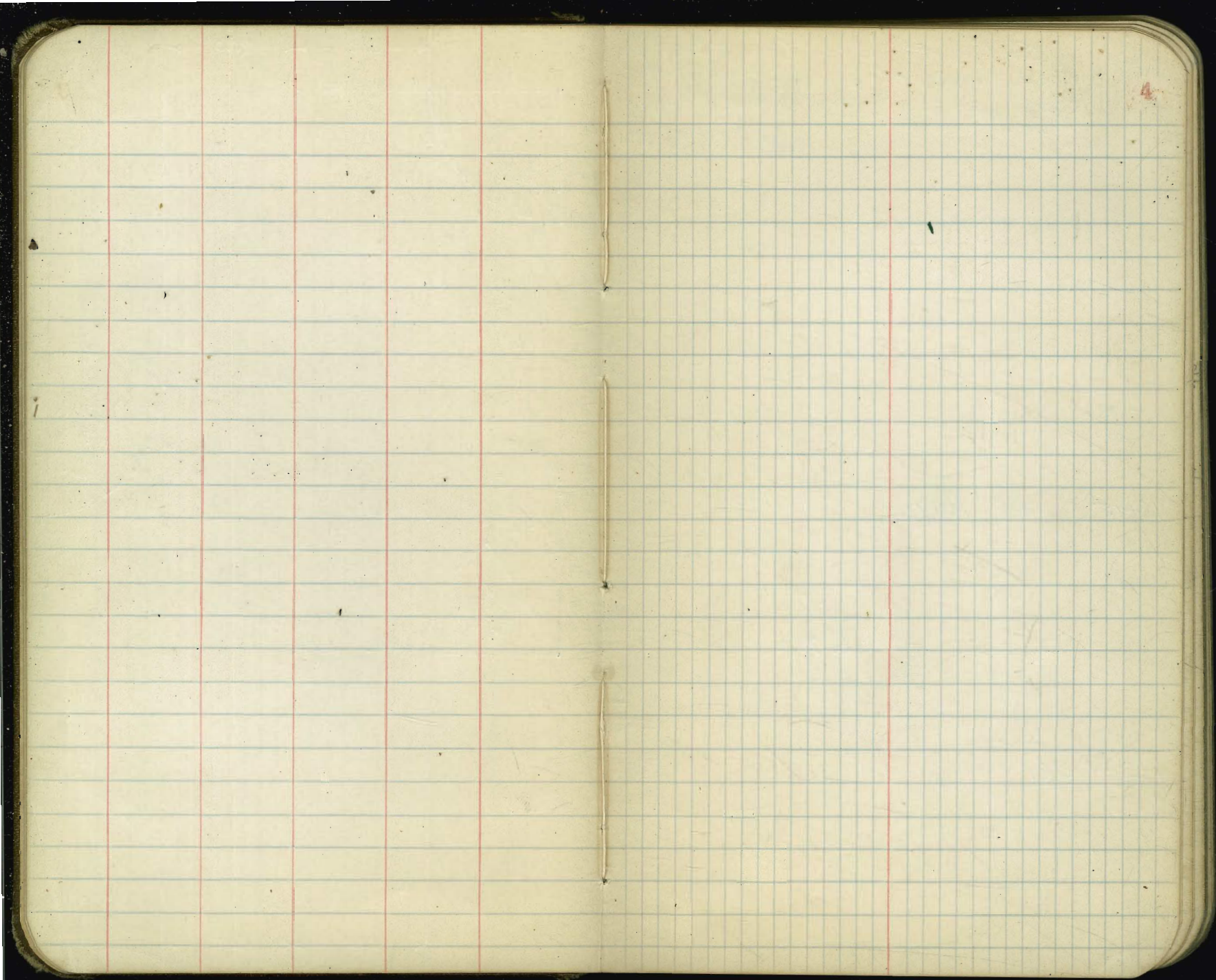
Richmond St.

3+27
3 R Brooks Ave

3+17

R 200
Δ 90°
L 31.41

← 20.0 20.0 →



Culvert Sta 18+15^e Cross
Road from Alabama St to Park
Blvd. across Powder House Canyon
Road.

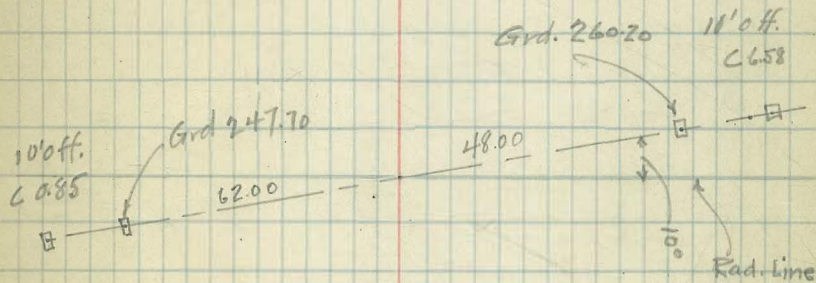
INDEXED
W.K.
OCT 14 1948

5

18+15^e def 15°12'30"

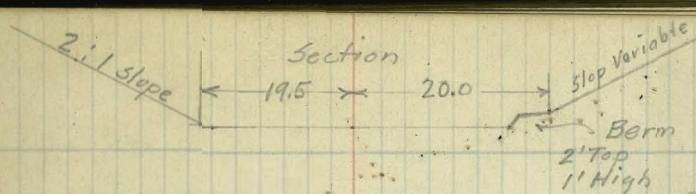
ch. 78.70

17+35³⁷ B.C.



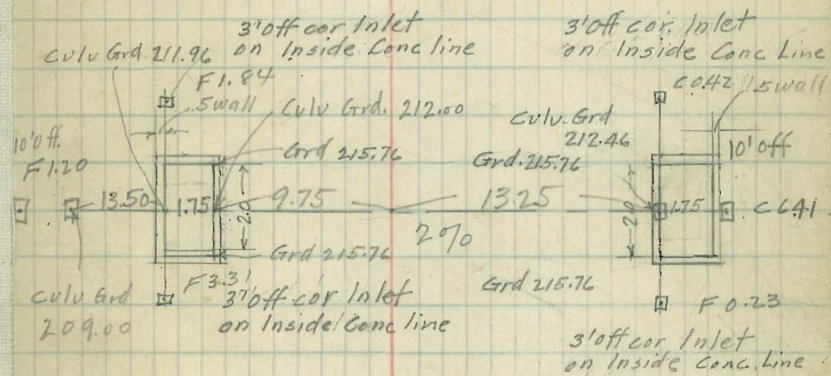
Change of Slope Richmond

St from Sta 3+30 to Sta 6+50



7+00		1:1	$\frac{7.9}{27.4}$	256.83		
6+50 ⁵⁰ BC		1 1/2:1	$\frac{+11.5}{36.8}$	260.18		
6+26 ⁵⁰ BC		1 3/4:1	$\frac{+12.2}{40.9}$	261.55		
6+00		2:1	$\frac{+12.2}{43.9}$	263.15		
5+50			$\frac{+10.3}{40.1}$	266.28	267.28	$\frac{+4.6}{42.8}$ 42.8
5+00			$\frac{+9.6}{38.7}$	269.70	270.70	$\frac{+4.4}{36.5}$ 56.5
4+80			$\frac{+8.6}{36.7}$	271.08	272.08	$\frac{+3.8}{33.8}$ 53.8
4+50		"	$\frac{+6.4}{32.3}$	273.06	273.72	$\frac{+3.3}{29.7}$ 49.7
4+20		"	$\frac{+4.8}{29.1}$	275.15	275.33	$\frac{+2.9}{25.5}$ 45.5
3+90		"	$\frac{+3.0}{25.5}$	277.00	276.75	$\frac{+2.1}{21.6}$ 41.6
3+61 ⁹⁷ EC		"	$\frac{+2.1}{23.7}$	278.40	277.89	$\frac{+1.8}{17.7}$ 37.7
3+30				279.70	278.95	

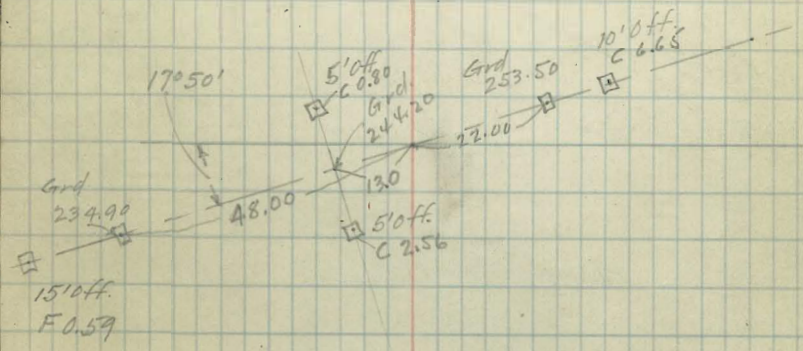
12+01⁹⁷



18" Corr. Culu. Sta. 15+94.0 Gross.
Road bet. Alabama + Park Blvd.

16+24.53 BC.

15+94.0



Finish Grades on
Richmond St.
Upas to Canyonada Way

7 9° 20.88

288.1
58
282.3

58
282.3

+1.1
20.6
282.13
C 0.2

281.30
C 1.0

280.40 +23
C 1.9 218

+50 7° 05.16

288.1
54
282.7

54
282.7

+0.2
282.60
288.1 19.7 C 0.1

281.78
C 0.9

280.86 +1.2
C 1.8 20.7

47
283.4

47
283.4

1 10° 23.00

+0.6
20.1 283.00

282.25
C 1.1

281.45 +2.0
C 1.7 21.5

288.1
43
284.8

43
284.8

+50 2° 21.74

283.95
4.15
288.10
11.41

+2.5
22.0
283.22
C 1.6

282.75
C 2.0

282.28 +2.4
C 2.5 21.9

276.69
0.41
277.10
7.55

+1.5
21.0

00 = B.C. S. edge pmt. Upas - St.

269.55 283.40

283.20

283.20

B.M. N.W.
Upas
Richmond 283.95

4 + 50

288.1 93 278.8	1/4" +6.0 210	273.06	93 278.8	273.32	272.72 +4.9 24.4
288.1 87 279.4			87 279.4		

4 + 20

288.1 81 290.0	1/4" +4.4 20.6	275.15	81 290.0	275.05	274.33 +4.1 23.6
288.1 79 280.2			79 280.2		

3 + 90

288.1 79 280.2	1/4" +2.8 20.2	277.00	79 280.2	276.55	275.75 +2.1 21.6
288.1 82 279.9			82 279.9		

3 + 61.97 = E.S. 17° 06.00 ± Hub Elev 280.28

288.1 82 279.9	1/4" +2.0 20.0	278.40	82 279.9	277.74	276.89 +2.3 21.8
288.1 75 280.6			75 280.6		

3 + 30 15° 35.34

288.1 75 280.6	1/4" +0.8 19.7	279.70	75 280.6	278.91	277.95 +1.5 21.0
288.1 69 281.2			69 281.2		

3 14° 10.31

288.1 69 281.2	+0.4 19.9	280.63	69 281.2	279.76	278.89 +1.1 20.6
288.1 64 281.7			64 281.7		

2 + 70 12° 45.28

288.1 64 281.7	+0.3 19.8	281.26	64 281.7	280.39	279.52 +1.0 20.5
288.1 64 281.7			64 281.7		

2 + 40 P.V.C. 11° 20.25

288.1 64 281.7	+0.6 20.1	281.77	64 281.7	280.90	280.03 +2.6 22.1
----------------------	--------------	--------	-------------	--------	---------------------

7 2° 00.63

41 270.6
9.8
260.8

9.8
260.8

255.76 -11.6
38.9

259.35
6.2
258.73
11.90
270.63
1.14

270.6
6.4
264.2

6.4
264.2

259.21 +1.0
20.5

450 0° 38.38

BM on Zoo
Fence post * 269.44
LH 6475
Out 269.53
Aver

3/4-1 +11.2 260.18
27.9 < 1.2

259.75
C 4.4

26.50 BC RT

New Elev 270.47

270.6
5.1
265.5

5.1
265.5

260.82 +0.7
20.2

6

269.44
7.69
277.13
37
276.76

1/2-1 +11.6 261.55
25.3 < 1.0

261.32
C 4.2

262.25 +1.2
20.7

57.15

269.44
7.69
277.13
37
276.76

270.6
3.1
267.5
+9.4 263.15
C 4.3

3.1
267.5

266.28 +6.7
26.2

450

5

5

277.1
6.6 +8.6
270.5 266.28
1/4-1 21.7 C 4.2

6.6
270.5

266.28 +6.7
26.2

4+80 EVC

277.1
0.0
277.1
1/4-1 +8.4
21.6 269.70
C 7.4

0.0
277.1

266.28 +6.7
26.2

288.1
10.2
277.9
1/4-1 +7.4
21.3 271.08
6.8

270.0
C 7.1
10.2
277.9

269.70 +5.4
24.9

271.08
6.8

271.38
C 6.5

271.08 +5.3
24.8

3 Crowned Tern

10

$$\begin{array}{r} 41247.2 \\ 9.8 \\ \hline 237.4 \end{array}$$

$$\begin{array}{r} +2.6 \\ 22.1 \\ \hline 23.7 \end{array}$$

235.41

$$\begin{array}{r} 00 \\ 195 \\ \hline \end{array}$$

$$\begin{array}{r} 9.8 \\ 237.4 \end{array}$$

$$\begin{array}{r} 235.71 \\ C 17 \end{array}$$

$$\begin{array}{r} 235.41 \\ C 17.0 \\ \hline 218.41 \end{array}$$

-10.4

371

+60 Culv. #2

$$\begin{array}{r} 247.2 \\ 5.7 \\ \hline 241.5 \end{array}$$

$$\begin{array}{r} 5.7 \\ 241.5 \end{array}$$

+50

$$\begin{array}{r} 247.17 \\ 75 \\ 246.44 \\ 12.91 \\ \hline 259.357 \end{array}$$

$$\begin{array}{r} +3.0 \\ 22.5 \end{array}$$

$$\begin{array}{r} 239.20 \\ 00 \\ 195 \\ \hline \end{array}$$

$$\begin{array}{r} 239.15 \\ C 2.3 \end{array}$$

$$\begin{array}{r} 238.80 \\ \hline 218.41 \end{array}$$

-12.1

37.7

9 +00.85 E.C. 7° 28.0°

$$\begin{array}{r} 247.2 \\ 0.8 \\ \hline 246.4 \end{array}$$

$$\begin{array}{r} 242.85 \\ +16.32 \\ \hline 259.17 \end{array}$$

$$\begin{array}{r} 0.8 \\ 246.4 \\ \hline 247.2 \end{array}$$

$$\begin{array}{r} 241.95 \\ \hline 218.41 \end{array}$$

-5.7

30.1

+50

6° 05.0

$$\begin{array}{r} 259.4 \\ 9.3 \end{array}$$

$$\begin{array}{r} 250.1 + 29.0 \\ 48.5 \end{array}$$

$$\begin{array}{r} 246.15 \\ 00 \\ 195 \\ \hline \end{array}$$

$$\begin{array}{r} 9.3 \\ 250.1 \\ \hline 246.0 \\ C 4.1 \end{array}$$

$$\begin{array}{r} 245.47 \\ \hline 218.41 \end{array}$$

+2.6

22.1

8 4° 43.33

$$\begin{array}{r} 259.4 \\ 6.1 \end{array}$$

$$\begin{array}{r} 253.3 + 26.1 \\ 45.6 \end{array}$$

$$\begin{array}{r} 249.96 \\ 00 \\ 195 \\ \hline \end{array}$$

$$\begin{array}{r} 6.1 \\ 253.3 \\ \hline 249.49 \\ C 3.9 \end{array}$$

$$\begin{array}{r} 248.90 \\ \hline 218.41 \end{array}$$

C 4.4

23.9

7 +75 Culv. #3 4° 07.48

$$\begin{array}{r} 259.4 \\ 22 + 181 \\ \hline 257.237.6 \end{array}$$

$$\begin{array}{r} 253.39 \\ C 3.8 \end{array}$$

$$\begin{array}{r} 2.2 \\ 257.2 \\ \hline 252.86 \\ C 4.3 \end{array}$$

$$\begin{array}{r} 252.33 \\ \hline 218.41 \end{array}$$

-4.2

27.8

7 +50

3° 21.68

14

H/209.6
27
206.9

+141
336 208.19

27
206.9

208.49
F 7.6

208.19 -4.0
F 1.3 27.5

209.57
0.50
209.07
13.15
222.22 X
52

222.2
11.4
210.8

+22.4
41.9 211.56

11.4
210.8

211.86
F 1.1

211.56 -1.0
F 0.8 23.0

221.70
13.08
234.78 X
48

222.2
2.8
225.0

+32.3
51.8 214.94

+2.8
225.0

214.94 -1.0
C 10.1 23.0

234.30
12.89
247.19 X

222.2
6.9
229.1

+50.0
69.5 218.32

215.24
C 9.8

218.32 -1.5
C 10.5 23.8

222.2
8.6
230.8

+33.2
52.7 221.70

+6.9
227.4

221.70 -1.2
C 8.8 23.3

234.8
7.4
227.4

+30.4
49.9 225.12

+8.6
230.8

225.12 -0.4
C 2.0 22.1

234.8
5.9
228.9

+21.2
40.7 228.55

7.4
227.4

228.55 +0.4
C 1.3 19.9

234.8
1.4
233.4

+16.0
35.5 231.98

5.9
228.9

231.98 -12.0
C 1.1 39.5

228.85
C 1.4
233.4

232.28
C 1.1

+50

+50

Break

+50

+50

191.78
 +50 3° 23.19
 17 1° 25.74
 11.25 191.78 13.09 191.21
 0.57 191.78
 16 + 63.49 BC RT 191.78
 6.03 204.30 198.27 BM#2
 +50
 16
 +50
 17 B.M. - 198.27
 11.30
 209.57
 14 + 60 July #5
 +50

H.I.

$$\begin{array}{r} 191.8 \\ 7.0 \\ \hline 184.8 \end{array} +5.7 = 185.60$$

$$\begin{array}{r} 7.0 \\ 184.8 \\ \hline 184.8 \end{array} F 0.1$$

$$182.10 + 0.9 = 183.0$$

$$\begin{array}{r} 191.8 \\ 3.7 \\ \hline 188.1 \end{array} +14.6 = 188.5$$

$$\begin{array}{r} 3.7 \\ 188.1 \\ \hline 188.1 \end{array} F 0.1$$

$$187.50 + 0.5 = 188.0$$

$$\begin{array}{r} 191.8 \\ 1.6 \\ \hline 190.2 \end{array} +16.0 = 191.05$$

$$\begin{array}{r} 1.6 \\ 190.2 \\ \hline 190.2 \end{array} F 0.5$$

$$190.05 - 7.7 = 182.35$$

$$\begin{array}{r} 190.2 \\ 35.5 \\ \hline 190.2 \end{array} F 0.9$$

$$190.74 - 7.7 = 183.04$$

$$\begin{array}{r} 190.2 \\ 35.5 \\ \hline 190.2 \end{array} F 0.5$$

$$190.05 - 7.7 = 182.35$$

$$\begin{array}{r} 204.3 \\ 10.1 \\ \hline 194.2 \end{array} +10.0 = 204.3$$

$$\begin{array}{r} 10.1 \\ 194.2 \\ \hline 194.2 \end{array} F 0.8$$

$$194.68 - 10.1 = 184.58$$

$$\begin{array}{r} 204.3 \\ 6.7 \\ \hline 197.6 \end{array} +2.7 = 194.7$$

$$\begin{array}{r} 6.7 \\ 197.6 \\ \hline 197.6 \end{array} F 0.8$$

$$198.05 - 9.1 = 188.95$$

$$\begin{array}{r} 204.3 \\ 6.7 \\ \hline 197.6 \end{array} -0.5 = 198.05$$

$$\begin{array}{r} 6.7 \\ 197.6 \\ \hline 197.6 \end{array} F 0.8$$

$$198.05 - 9.1 = 188.95$$

$$\begin{array}{r} 204.3 \\ 4.2 \\ \hline 200.1 \end{array} -0.8 = 201.43$$

$$\begin{array}{r} 4.2 \\ 200.1 \\ \hline 200.1 \end{array} F 1.6$$

$$201.43 - 12.0 = 189.43$$

$$\begin{array}{r} 204.3 \\ 4.2 \\ \hline 200.1 \end{array} -0.8 = 201.43$$

$$\begin{array}{r} 4.2 \\ 200.1 \\ \hline 200.1 \end{array} F 1.6$$

$$201.43 - 12.0 = 189.43$$

$$\begin{array}{r} 209.6 \\ 6.2 \\ \hline 203.4 \end{array} +11.8 = 204.81$$

$$\begin{array}{r} 6.2 \\ 203.4 \\ \hline 203.4 \end{array} F 1.7$$

$$204.81 - 11.8 = 193.01$$

$$\begin{array}{r} 209.6 \\ 6.2 \\ \hline 203.4 \end{array} +11.8 = 204.81$$

$$\begin{array}{r} 6.2 \\ 203.4 \\ \hline 203.4 \end{array} F 1.7$$

$$204.81 - 11.8 = 193.01$$

20 + 75.75 = E.C. 16° 08.00

20 + 60

1 + 40

20

+ 60

+ 20

19

+ 50

+ N = Culv #6

18

175.21

14° 44.4

13° 10.44

11° 36.48

10° 02.5

9° 15.54

7° 15.09

5° 55.89

5° 20.64

191.78

11.90 179.88

Note for Latest Grades
from Sta 19420 to 460 Canyonada Way
See pages 68-71
This book

167.78
107
169.05 A

179.88
67
180.55 A
125.7
167.78

H.I. 169.1
42
164.9

169.1
21
167.0

180.6
11.6
169.0

180.6
95
171.1

180.6
72
173.4

180.6
59
174.7

191.8
13.1
178.7

191.8
103
181.5

+150
345
+154
39.9

+18
21.8

+18
21.3

+3.3
22.8

+86
28.1

+150
345

+154
39.9

164.70

165.64

+3.1
22.6 166.90

+3.0
22.5 169.28

+18
21.8 171.55

+18
21.3 174.11

+3.3
22.8 175.46

+86
28.1 178.84

+150
345

+154
39.9 182.22

4.2
164.9
165.00
F0.1

165.64

2.1
167.0

166.93
C.05

11.6
169.0

168.53
C.05

95
171.1

170.80
C.03

72
173.4

173.36
Grd

59
174.7

174.71
Grd

13.1
178.7

178.09
C.06

103
181.5

181.57
Grd

165.28 +21
21.6 15

165.64

146.17 +28
C.08 22.3

167.78 +2.4
C.12 21.9

170.05 +1.8
21.3

172.61 +0.9
20.4

173.96 +0.5
20.0

177.34

+77.84 +0.2
19.7

180.74

C.08 +1.3
20.8

Finest Grades on
Canyada Way
Richmond to Russ Blvd

T.P. 22+10
22.82 W of P.I.

160.99
2.17
163.16

INDEXED

WK.

OCT 14 1948

+50

Crawles Void see pages 68-71

1+6493 E.C. 40°50.00

T.P. 002 Hub =

164.44
2.31
166.75
5.24
161.51

1+20 29°42.48

0+80 19°48.32

40.00
39.00

0+40 9°54.16

00 = B.C. LT.

20+8718 Richmond St.

NOTE! 0.30 crown on Tang.

Cuts = 195.00 from 4

Fills = 21.5 " " "

16

LT

RT

~~2.8~~
23.8
-1.4
23.6

157.78

158.08

157.78

~~2.4~~
23.4
+3.5
23.0

~~1.1~~
23.4

158.50

159.0

158.95

~~0.5~~
23.5

~~0.8~~
30.2

158.98

159.85

160.40

~~0.7~~
22.6

~~0.8~~
21.1
-0.1
21.7

159.30

160.50

161.50

~~2.0~~
24.5

~~0.8~~
19.8

159.85

161.27

162.70

~~2.7~~
24.8

~~0.5~~
20

160.50

162.09

163.08

~~2.0~~
24.5

~~1.4~~
21.1
+0.8
20.3

161.92

163.18

164.27

~~1.0~~
23

~~1.8~~
21.5
21.3

163.95

164.56

165.0

~~1.6~~
21.7

7

+50

to 152400

~~0.0~~
19.5
0.0
19.5

152.88
-0.3

+5.0
24.5

6

4460

+450

+ ~~0.7~~
30.2
0.0
19.5

153.44
+0.8

6.0
24.5

+50

1.216%

~~0.0~~
19.5
0.0
21.5

154.05
-0.1

+6.2
24.7

5

4460

+50

~~0.0~~
19.5
0.0
19.5

154.66
0.0

+6.0
24.5

~~1.8~~
2.5 154.97
-0.6
22.4

154.27
+1.8

154.97 +6.4
24.9

Grades Void
see Pages
68-71

163.16 X
1.89
161.27
0.62
167.89 X

~~1.7~~
2.1 155.58
-0.0
21.5

155.88
+1.0

155.58 +6.2
24.7

4

~~1.8~~
2.2 156.25
0.0
21.5

156.55
-0.6

156.25 +6.6
26.1

3 +50

~~1.7~~
2.1 156.97
0.0
19.5

157.27
-0.9

156.97 +3.9
23.2
0.0
19.5

11 $2^{\circ} 52' 44''$
 10+80 $1^{\circ} 58' 16.1''$
 10+60 $1^{\circ} 04' 07.7''$
 +50 $0^{\circ} 37' 08''$

10+36.31 BC. LT.

10+20

10

9+75

+50

9

+50

8

+50

161.89 X
~~11.38~~
~~150.51~~
~~2.92~~
~~157.43~~
~~8.02~~
~~149.41~~

~~-0.6~~ 146.92 147.79 148.67
~~-21.4~~ 147.13 147.97 148.84 $\frac{0.0}{19.5}$
 147.23 148.10 148.95
 147.61 148.39 149.15
~~+0.4~~ 147.85 148.58 149.23 $\frac{+1.2}{20.7}$
 19.9 0.0

148.05 148.68 149.26
~~+0.6~~ 148.05 148.75 149.20 $\frac{+0.7}{20.1}$
 148.35 148.94 $\frac{+0.1}{20.3}$ 149.25
 148.20 149.20 149.20
 $\frac{0.0}{19.5}$ 148.70 149.19 149.28 $\frac{+0.8}{19.9}$
 149.15 149.50 $\frac{0.0}{19.5}$ 149.37
 149.51 149.81 149.51
~~-0.8~~ 149.48 149.80 149.55 $\frac{0.0}{19.5}$
~~-0.6~~ 22.4 $\frac{0.0}{19.5}$

~~-1.4~~ 150.11 150.41 150.11 $\frac{0.0}{21.5}$
~~-0.9~~ 22.9 $\frac{0.0}{21.5}$

~~-2.0~~ 150.71 151.01 150.71 $\frac{0.0}{21.5}$
~~-0.9~~ 22.9 $\frac{0.0}{21.5}$

~~-1.4~~ 151.31 151.61 151.31 $\frac{+2.7}{24.1}$
~~-1.7~~ 24.1 $\frac{+2.7}{24.1}$

~~-0.7~~ 151.92 152.22 151.92 $\frac{+4.3}{23.7}$
~~-0.8~~ 22.7 $\frac{+4.3}{23.7}$

817 43
137.24
2.94
142.89

14+60
14+50
14+40 ✓
14+20 ✓
13+80 ✓
+50 ✓
13+25
13
13+91.22 EC. 11° 30.00'
12+75 10° 46' 07.0"
+50 9° 38.48
12+25 8° 30' 46.0"
12 7° 23.13
11+80 6° 28' 57.1
11+60 5° 34' 49.7"
11+50 5° 07.78'
11+40 4° 40' 41.3"
11+20 3° 46' 32.9"

140.67 140.97 0.3cr 140.67
-143.42 -143.72 -143.42
~~144~~
23.6 140.98 141.28 0.3cr 140.98 +2.3
21.6
-21 141.32 141.62 0.3cr 141.32 21.6
24.8 141.68 141.98 0.3cr 141.68 +2.1
21.6
+44.03 +44.33 +44.03
-1.8 742.07 742.37 0.28cr 742.10 +2.7
24.2 27.3 27.2
-1.6 142.57 142.97 0.28cr 142.80 +2.8
23.9 22.3
+44.58 +44.94 +44.84
-1.7 142.98 143.47 0.22cr 143.52 +1.7
24.1 21.2
+44.95 +45.15 +45.95
-2.9 -3.1 -0.1
25.9 21.7
-1.1 143.45 144.12 0.09cr 144.61 +0.5
23.2 21.0 21.0 20.0
+45.0 +45.24 +46.14
-1.7 144.11 144.48 0.07cr 145.11
24.1 21.4
+45.24 +45.15 +46.95
144.61 145.48 0.0cr 146.35
-1.5 145.11 145.98 0.0cr 146.85 -0.2
23.8 21.8
+45.88 +46.75 +47.67
145.50 146.37 0.0cr 147.24
-1.4 145.87 146.74 147.61 -1.6
23.6 23.9
+46.49 +47.36 +48.03
146.24 147.11 147.98
146.58 147.45 148.32

18+60 5-28-24.2

+50 5° 12' 53"

18+40 4-56-35.0

3° 52' 96"

17+50 2° 39' 14"

17+50 2° 33' 23"

17+50 1° 19' 57"

17+00 1° 13' 50"

16+75 0-36-03.7

16+50 B.C. LT

16+25

16+20

16+00 ✓

15+80

15+60 ✓

15+50

15+40

15+20 ✓

15+00

14+80 ✓

137.68

~~138.38~~

-1.6

^{-0.9}_{23.9} 137.79

^{-1.5}_{23.8} 137.99

~~138.99~~

-1.9
24.4

^{-1.6}_{23.9} ~~138.24~~

~~139.59~~

-3.5
26.8

^{-1.2}_{23.0} ~~138.79~~

~~140.20~~

^{-1.1}_{23.2} ~~138.62~~

~~140.82~~

^{-0.6}_{22.4} ~~141.22~~

~~141.58~~

139.32

^{-0.8}_{22.7} ~~139.48~~

~~142.71~~

^{-0.8}_{22.7} ~~139.67~~

~~140.12~~

^{-0.8}_{22.7} ~~139.88~~

~~142.81~~

^{-1.0}_{23.0} ~~140.38~~

138.16

~~138.86~~

-2.0

138.27

138.47

~~139.47~~

-2.1

138.72 o.c.r

~~140.67~~

-2.5

138.97 o.03cr

~~140.68~~

139.20 o.c.r

~~141.78~~

-3.0

141.60

139.62 o.2cr

139.78 o.3cr

~~142.51~~

139.97 o.3cr

140.18 o.3cr

140.42 o.3cr

143.11

140.68 o.3cr

138.64

~~139.34~~

-1.7

24.1

138.75

~~138.95~~

+1.9
21.4

139.20 +2.8
22.3

~~140.55~~

+0.4

19.9

139.39

~~141.20~~

139.41

139.40 +5.0
24.5

~~141.45~~

+2.8
22.3

141.58

139.37

139.35 +3.9
23.4

~~141.72~~

139.39

139.48 +4.5
24.0

142.21

139.67

139.88 +4.4
23.9

140.12

~~142.81~~

140.38 +2.4
21.9

+50	9° 52.29	2
21+25		1+ 7
21	0° 28.29	
20+78		
+50	3° 04.09	
20+40		
20+20		
20+04.85	BC 17.	
20+00		
19+89.00		
20+04		
19+74.03	EC. 8° 50' 00	
19+60	8-07-30.2	
+50	7° 57.67	
19+40	7-35-41.0	14289
19+20	7-03-51.8	
19	6-32-10	
18+80	6-00-13.4	

	136.45	135.22	134.00
+6.4	136.44	135.21	133.98
27.1			+1.5
1/2	136.71	135.53	134.28
	136.87	135.83	134.68
	136.90	135.82	134.70
1/2	+2.4	-0.2	+1.47
	20.7		20.9
	136.98	136.03	135.15
	137.08	136.43	135.78
0.0	137.00	136.45	135.92
19.5	137.00	136.69	136.35
	136.99	136.98	136.70
	136.80	136.98	137.16
	-0.4	-0.1	-0.5
	22.1		22.3
		137.03	

	136.95	137.20	137.35
Flt	137.20	137.35	137.50
236	-1.4	-0.4	-0.7
	23.6	Leve / Sect.	22.6
	137.08	137.40	137.61
	137.32	137.64	137.98
	137.12	137.58	137.96
-22	137.27	137.75	138.23
248	137.42	137.90	138.38
	137.77	138.75	138.73
	-2.3	-1.5	-1.9
	25.0		24.4
-16	137.56	138.04	138.52
297			-1.4
			23.6

B1770

137.92
8.97
138.91

25 + 10.28 BC 17

25 ✓

+50 ✓

24 ✓

23 + 50 ✓

22 + 100

22 + 98.76 EC 20° 00

+50

16° 40.49

22

13° 16.39

Lt

Fence	+23	131.28
	15.9	$\frac{00}{14.5}$

130.82	0.09 cr.
+1.9	

130.18
+3.6
<u>23.1</u>

		131.30
+24		
Fence	16.0	$\frac{00}{14.8}$

131.95	0.11 cr.
+1.8	

130.38
+3.4
<u>22.9</u>

		131.40
+23		
Fence	16.9	$\frac{00}{16.0}$

131.56	0.27 cr.
+1.5	

131.18
+2.4
<u>21.6</u>

		131.87
+24		
Fence	17.8	$\frac{00}{16.8}$

132.17	0.3 cr.
+1.0	

131.87
+0.8
<u>20.3</u>

		132.70
+1.2		
Fence	18.7	$\frac{00}{18.1}$

132.78	0.28 cr.
+0.9	

132.30
+1.0
<u>20.5</u>

		134.05
+2.4		
Fence	19.5	$\frac{00}{19.5}$

133.39	0.11 cr.
+0.4	

132.50
+1.2
<u>20.7</u>

1/2 in	+56	135.13
	22.3	$\frac{00}{19.5}$

133.99
0.0

132.77
+1.3
<u>20.8</u>

1/2 in	+66	135.83
	22.8	$\frac{00}{19.5}$

134.60
+0.1

133.37
+0.7
<u>20.2</u>

22

29			125.79 -1.3 23.5	126.09 -2.0	125.79 -5.0 29.0
28 + 50			126.80 -1.2 23.3	126.70 .22 cr -2.1	126.37 -1.2 27.8
27 + 97.33	EC	12° 31.00	127.72 -0.8 22.7	127.36 .13 cr -0.3	126.75 -0.1 21.7
+50		10° 27.05	128.65 -0.3 22.0	127.91 .03 cr -0.3	127.12 +0.5 20.0
27		8° 16.25	129.33 0.0 19.5	128.52 .00 cr +0.9	127.71 +2.3 21.8
+50		6° 05.45	129.94 +2.7 19.0	129.13 .20 cr +1.9	128.32 +3.6 23.1
26		3° 54.05	130.55 +2.1 14.5	129.74 .00 cr +2.3	128.93 +4.9 26.4
25 + 50		1° 43.85	131.08 +2.5 14.0	130.35 .03 cr +2.2	129.56 +4.4 23.9

33+00

32 + 98.70 B.C. 17.

21.7
20.1

+50

32

+50

31

+50

30

29 +50

$$\frac{1}{2} : 1 \quad \begin{array}{r} +12.6 \\ 25.8 \end{array} \quad 120.13$$

$$\frac{1}{2} : 1 \quad \begin{array}{r} +12.0 \\ 25.5 \end{array} \quad 121.45$$

$$\begin{array}{r} +11.2 \\ 30.7 \end{array} \quad 122.14$$

$$\begin{array}{r} +8.4 \\ 27.7 \end{array} \quad \begin{array}{r} 122.75 \\ 0.0 \\ 21.5 \end{array}$$

$$\begin{array}{r} 123.36 \\ 0.0 \\ 19.5 \end{array}$$

$$\begin{array}{r} 123.97 \\ +4.6 \\ 24.1 \end{array}$$

$$\begin{array}{r} 124.57 \\ -1.4 \\ 23.6 \end{array}$$

$$\begin{array}{r} 125.18 \\ -2.2 \\ 24.8 \end{array}$$

121.23

$$\begin{array}{r} 121.21 \\ -1.6 \end{array} \quad 121.65$$

$$\begin{array}{r} 121.83 \\ -1.8 \end{array} \quad 121.73$$

$$\begin{array}{r} 122.44 \\ -2.0 \end{array} \quad 122.14$$

$$\begin{array}{r} 123.05 \\ -2.3 \end{array} \quad 122.75$$

$$\begin{array}{r} 123.66 \\ -2.3 \end{array} \quad 123.36$$

$$\begin{array}{r} 124.27 \\ -1.9 \end{array} \quad 123.97$$

$$\begin{array}{r} 124.87 \\ -2.2 \end{array} \quad 124.57$$

$$\begin{array}{r} 125.48 \\ -1.8 \end{array} \quad 125.18$$

$$\begin{array}{r} 121.65 \\ -1.2 \\ 23.3 \end{array}$$

$$\begin{array}{r} 121.73 \\ -1.5 \\ 23.8 \end{array}$$

$$\begin{array}{r} 122.14 \\ -1.9 \\ 24.4 \end{array}$$

$$\begin{array}{r} 122.75 \\ -4.0 \\ 27.5 \end{array}$$

$$\begin{array}{r} 123.36 \\ -7.5 \\ 32.8 \end{array}$$

$$\begin{array}{r} 123.97 \\ +6.4 \\ 31.1 \end{array}$$

$$\begin{array}{r} 124.57 \\ -5.3 \\ 29.5 \end{array}$$

$$\begin{array}{r} 125.18 \\ -5.5 \\ 29.8 \end{array} \quad \begin{array}{r} -5.0 \\ 29.0 \end{array}$$

18.2
17.8

14

+50

11
1.1

	116.67	116.97	116.67
+16.1	+0.6	+0.3	+2.5
35.6	20.1		25.3

36

$\frac{1}{2} \cdot 1 + 18.0$	117.28	117.58	117.33
28.5		+0.3	+1.8
			21.3

+50

$\frac{1}{2} \cdot 1 + 18.3$	117.80	118.19	118.19
28.7		0.0	+1.3
			20.8

35 + 12.33 EC 8° 30.00

$\frac{1}{2} \cdot 1 + 16.0$	118.07	118.63	119.01
27.5		0.0	+0.6
			20.1

28

35 8° 00.58

$\frac{1}{2} \cdot 1 + 13.4$	118.17	118.79	119.30
26.2		-0.2	+0.5
			20.0

42

+50

6° 01.18

+7.3	118.65	119.40	120.15
26.8		-0.2	0.0
			19.5

42

34 ✓ 4° 01.82

+10.7	119.26	120.01	120.76
30.2		-0.6	-3.3
			26.5

42

33 + 50 2° 02.46

$\frac{1}{2} \cdot 1 + 10.2$	119.87	120.62	121.37
24.6		-1.2	-0.6
			22.4

45 17 19.5 out

+50

$$\begin{array}{r} 111.81 \\ +26.4 \\ \hline 45.9 \end{array}$$

$$\begin{array}{r} 112.11 \\ +7.1 \\ \hline \end{array}$$

$$\begin{array}{r} 111.81 \\ -0.6 \\ \hline 22.4 \end{array}$$

40

$$\begin{array}{r} 112.41 \\ +17.5 \\ \hline 37.0 \end{array}$$

$$\begin{array}{r} 112.71 \\ -1.4 \\ \hline \end{array}$$

$$\begin{array}{r} 112.41 \\ -0.4 \\ \hline 22.1 \end{array}$$

+50

$$\begin{array}{r} 113.02 \\ +4.5 \\ \hline 34.0 \end{array}$$

$$\begin{array}{r} 113.32 \\ -1.2 \\ \hline \end{array}$$

$$\begin{array}{r} 113.02 \\ -4.6 \\ \hline 27.4 \end{array}$$

39

$$\begin{array}{r} 113.63 \\ -0.8 \\ \hline 22.7 \end{array}$$

$$\begin{array}{r} 113.93 \\ -0.8 \\ \hline \end{array}$$

$$\begin{array}{r} 113.63 \\ -4.5 \\ \hline 28.3 \end{array}$$

+50

$$\begin{array}{r} 114.24 \\ -0.9 \\ \hline 22.9 \end{array}$$

$$\begin{array}{r} 114.54 \\ -0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 114.24 \\ -3.9 \\ \hline 27.4 \end{array}$$

38

$$\begin{array}{r} 114.85 \\ -0.4 \\ \hline 22.1 \end{array}$$

$$\begin{array}{r} 115.15 \\ 0.9 \\ \hline \end{array}$$

$$\begin{array}{r} 114.85 \\ -2.9 \\ \hline 25.9 \end{array}$$

+50

$$\begin{array}{r} 115.45 \\ +0.1 \\ \hline 19.6 \end{array}$$

$$\begin{array}{r} 115.75 \\ +0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 115.45 \\ -3.4 \\ \hline 26.6 \end{array}$$

37

$$\begin{array}{r} 116.06 \\ +0.3 \\ \hline 19.8 \end{array}$$

$$\begin{array}{r} 116.36 \\ +0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 116.06 \\ -7.2 \\ \hline 32.3 \end{array}$$

43 + 72.61 EC. 12° 30.00

.18

1/2" 1

107.10
+13.0
26.0

108.19
+0.8

109.10
0.0
19.5

+50 10° 32.13

.9

1/2" 1

107.18
+12.7
25.9

108.46
+0.7

109.65
0.0
21.5

43 6° 10.97

.9

1/2" 1

107.51
+12.4
25.7

109.07
0.0

110.51
-0.5
22.3

+50 1° 49.71

.16

108.40
+14.6
34.1

109.67
+0.6

110.83
-0.9
22.9

42 + 29.06 B.C. LT
20.98

111.51

108.80
+17.4
36.9

109.90
+1.6

110.80
-0.9
22.9

42

109.58
+18.0
37.5

110.28
+1.7

110.60
-0.7
22.6

+50

110.55
+20.4
39.9

110.89
+4.3

110.69
+0.1 -0.6
19.6 22.4

41

111.20
+12.8
42.3

111.50
+10.3

111.20
-0.7
22.6

+50

1/2:1	103.29 +6.2 <u>22.6</u>	103.59 +0.2	103.29 -1.2 <u>22.7</u>
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47

	103.90 +5.9 <u>25.4</u>	104.20 +0.2	103.90 -4.5 <u>28.3</u>
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+50

	104.51 +4.6 <u>24.1</u>	104.81 +0.6	104.51 -7.8 <u>33.2</u>
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46

BM on Expofence
Elev 11096

	105.12 +6.8 <u>26.3</u>	105.42 0.0	105.12 +0.9 <u>20.4</u>
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+50

1/2:1	105.73 +7.8 <u>23.4</u>	106.03 +0.8	105.73 +1.6 <u>21.1</u>
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45

1/2:1	106.33 +10.6 <u>24.8</u>	106.63 +4.5	106.33 +1.7 <u>20.2</u>
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+50

1/2:1	106.89 +13.2 <u>26.1</u>	107.24 +5.0	107.00 +1.5 <u>21.0</u>
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44

1/2:1	107.10 +12.4 <u>25.7</u>	107.85 +0.7	108.20 +0.7 <u>20.2</u>
-------	--------------------------------	----------------	-------------------------------

+50

$$\begin{array}{r} 98.43 \\ -0.4 \\ \hline 22.1 \end{array}$$

$$\begin{array}{r} 98.73 \\ -0.2 \\ \hline \end{array}$$

$$\begin{array}{r} 98.43 \\ -2.7 \\ \hline 25.6 \end{array}$$

51

$$\begin{array}{r} 99.04 \\ 0.0 \\ \hline 19.5 \end{array}$$

$$\begin{array}{r} 99.34 \\ -0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 99.04 \\ -1.3 \\ \hline 23.5 \end{array}$$

+50

$$\begin{array}{r} 99.65 \\ +5.9 \\ \hline 25.4 \end{array}$$

$$\begin{array}{r} 99.95 \\ -0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 99.65 \\ -9.1 \\ \hline 35.3 \end{array}$$

50

$$\begin{array}{r} 100.25 \\ +9.0 \\ \hline 28.5 \end{array}$$

$$\begin{array}{r} 100.55 \\ +0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 100.25 \\ +1.1 \\ \hline 20.6 \end{array}$$

+50

$$\begin{array}{r} 100.86 \\ -12.4 \\ \hline 22.6 \\ \frac{1}{4} \end{array}$$

$$\begin{array}{r} 101.16 \\ -0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 100.86 \\ +1.0 \\ \hline 20.5 \end{array}$$

49

$$\begin{array}{r} 101.47 \\ +12.6 \\ \hline 22.7 \\ \frac{1}{4} \end{array}$$

$$\begin{array}{r} 101.77 \\ +0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 101.47 \\ +1.2 \\ \hline 20.7 \end{array}$$

+50

$$\begin{array}{r} 102.08 \\ +12.0 \\ \hline 22.5 \\ \frac{1}{4} \end{array}$$

$$\begin{array}{r} 102.38 \\ +0.5 \\ \hline \end{array}$$

$$\begin{array}{r} 102.08 \\ +1.5 \\ \hline 21.0 \end{array}$$

48

$$\begin{array}{r} 102.69 \\ +8.8 \\ \hline 23.9 \\ \frac{1}{2} \end{array}$$

$$\begin{array}{r} 102.99 \\ +0.5 \\ \hline \end{array}$$

$$\begin{array}{r} 102.69 \\ +1.0 \\ \hline 20.5 \end{array}$$

55

30 01'00
2° 48.18

+50

10 10'42"
1° 05.60

54 + 1796 B.C. R7.

53 + 75

+50

53 + 25

53

+50

52

Note for latest
grades from Sta
54 + 1796 to 6244139
see Page 57-59
This book

Def 132.358"
pet H.

BM on Expo
Fence Gate post
Elev 98.41

$$\begin{array}{r} 95.35 \\ +18.4 \\ \hline 37.9 \end{array}$$

$$\begin{array}{r} 95.75 \\ +21.8 \\ \hline 41.3 \end{array}$$

$$\begin{array}{r} 95.87 \\ +22.2 \\ \hline 41.7 \end{array}$$

$$\begin{array}{r} 95.88 \\ +22.2 \\ \hline 42.2 \\ 95.90 \\ +24.0 \\ \hline 43.5 \end{array}$$

$$\begin{array}{r} 96.08 \\ +24.0 \\ \hline 43.5 \\ 96.30 \\ +22.6 \\ \hline 42.1 \end{array}$$

$$\begin{array}{r} 96.61 \\ +18.7 \\ \hline 38.2 \end{array}$$

$$\begin{array}{r} 97.21 \\ -0.1 \\ \hline 21.7 \end{array}$$

$$\begin{array}{r} 97.82 \\ 0.0 \\ \hline 41.5 \end{array}$$

$$\begin{array}{r} 94.70 \\ +39 \\ \hline \end{array}$$

$$\begin{array}{r} 95.20 \\ +7.8 \\ \hline \end{array}$$

$$\begin{array}{r} 95.52 \\ +8.4 \\ \hline \end{array}$$

$$\begin{array}{r} 95.70 \\ +8.1 \\ \hline \end{array}$$

$$\begin{array}{r} 96.00 \\ +7.3 \\ \hline \end{array}$$

$$\begin{array}{r} 96.30 \\ +4.3 \\ \hline \end{array}$$

$$\begin{array}{r} 96.60 \\ 0.0 \\ \hline \end{array}$$

$$\begin{array}{r} 96.91 \\ -0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 97.51 \\ -0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 98.12 \\ -0.8 \\ \hline \end{array}$$

$$\begin{array}{r} 94.05 \\ +1.4 \\ \hline 20.9 \end{array}$$

$$\begin{array}{r} 74.65 \\ 95.44 \\ +0.2 \\ \hline 19.7 \end{array}$$

$$\begin{array}{r} 95.16 \\ +0.8 \\ \hline 20.3 \end{array}$$

$$\begin{array}{r} 95.29 \\ +0.5 \\ \hline 20.0 \\ 95.65 \\ +0.5 \\ \hline 20.0 \end{array}$$

$$\begin{array}{r} 96.00 \\ +0.4 \\ \hline 19.9 \\ 96.30 \\ +0.5 \\ \hline 20.0 \end{array}$$

$$\begin{array}{r} 96.61 \\ +0.5 \\ \hline 20.0 \end{array}$$

$$\begin{array}{r} 97.21 \\ -7.5 \\ \hline 32.8 \end{array}$$

$$\begin{array}{r} 97.82 \\ -10.0 \\ \hline 36.5 \end{array}$$

Grades Voide See Pages 57-59

58 + 26.03

58 + 11.17

58 + 09.51 EC

14° 23' 45"

58 + 10.62 EC

13° 25' 00"

14° 02' 46"

58

13° 03' 10"

13° 07' 37"

12° 11' 85"

57 + 75

12° 12' 28"

+ 50

11° 20' 60"

10° 22' 10"

57

9° 38' 10"

8° 31' 52"

+ 50

7° 55' 60"

6° 41' 34"

56

6° 13' 10"

4° 51' 17"

55 + 50

4° 30' 60"

92.00

-1.6
23.9

92.28

-1.4
92.81-0.7
22.6

92.86

+0.0
19.5

93.36

+1.9
21.4

93.86

+1.6
21.4

94.36

+2.3
21.8

94.85

+1.7
21.2

91.61

-1.7

91.71

-1.4
91.96

-1.1

92.21

-0.8

92.71

-0.4

93.21

+0.4

93.71

+1.3

94.20

+1.9

91.00

-11.8
39.2

91.13

-31
91.37-5.6
29.9

91.56

-1.9
24.4

92.06

+0.3
19.8

92.56

0.0
19.5

93.06

+0.6
20.1

93.55

+1.6
21.1

5 +50
 5 61
 5 +50
 3 60+04.24
 60
 +50
 59
 58+62.93
 58+59.04 - P.G.
 58+42.73 BC
 58+41.44 BC LT

4° 25' 19.6"
~~3° 40.95~~
 3° 42' 09.1"
~~3° 05.15~~
 2° 58' 58.6"
~~2° 29.55~~
 2° 19' 17.7"
 2° 15' 48.1"
~~1° 53.55~~
 1° 32' 37.6"
~~1° 17.75~~
 0° 49' 27.1"
~~0° 41.95~~
 0° 17' 26.5"
~~0° 12.88~~

Grades Void, see Pages 57-59

Road to Park Blvd
 Def 51.811" per ft.

88.20 -3.6 <u>26.9</u>	88.22 -4.7	87.90 -4.9 <u>28.9</u>
88.72 -3.4 <u>26.6</u>	88.72 -4.1	88.20 -4.2 <u>27.8</u>
89.22 -2.3 <u>26.5</u>	89.22 -4.2	88.52 -3.4 <u>26.6</u>
89.68 -1.2 <u>23.3</u>	89.68 -4.7	88.81 -4.0 <u>27.5</u>
90.38 -2.0 <u>24.5</u>	90.22 -4.3	89.95 -7.6 <u>37.4</u>
90.98 -3.0 <u>26.0</u>	90.72 -3.1	90.42 -8.9 <u>34.9</u>
91.46 -2.7 <u>25.6</u>	91.09 -3.0	90.77 -10.3 <u>37.8</u>
91.60 -2.2 <u>24.8</u>	91.30 -3.7	90.83 -11.4 <u>38.6</u>

26.6
26
53.1

37.4
24.5
61.9

65

+50

64

+50

63

62+69.46 = Δ 2° 41' 30" LT.

62+50

= 62+41.39

62+40.57 E.C.

62+24.11

End of Road to Park Blvd = Sta. 17+97.27

62

59° 44' 15"

50° 29' 19.2"

5° 08' 30.1"

4° 16' 7.5"

Grades
Void
See Pages
57-59

84.43
+0.4
19.9

84.93
-3.2
26.3

85.43
-1.4
23.6

85.93
-1.8
24.2

86.43
-1.3
23.5

86.93
-1.4
23.6

-0.8
22.7

87.07
-1.0
87.18

87.58
-0.5
25.3

84.73
-0.5

85.23
-1.5

85.73
-2.3

86.23
-3.6

86.73
-4.4

87.23
-4.6

87.32
-4.7
87.48
-1.3

87.72
-4.5

84.43
-2.7
25.6

84.93
-0.5
22.3

85.43
-3.3
26.5

85.93
-3.9
27.4

86.43
-4.5
28.3

86.93
-4.9
28.9

87.02
-4.9
28.9
87.18

87.42
-5.0
29.0

67 + 14.10 Hedge pmt. at Russ Blvd.

67

+50

66

65 + 50

$\frac{82.58}{15.0} = \frac{11 \text{ St.}}{\text{Pave}}$ 81.63 pave.

$\frac{81.21}{10.8} = \frac{80.88}{\text{Gutter}}$

82.30

82.60

82.30

82.44
+0.4
19.9

82.74
-0.5

82.44
+0.1
19.6

82.94
+0.7
20.2

83.24
-0.4

82.94
-0.3
22.0

83.44
+0.3
19.8

83.74
-0.2

83.44
-0.2
25.1

83.94
-0.2
19.7

84.24
-0.2

83.94
-0.2
25.3

Richmond St. from
Myrtle to Cypress

West

±

East 35

1+25

H.I.

Curb Gutter

Gutter Curb

743

262.1
50
257.1

50
2571

1+47

272.65

271.98

272.13

271.78

272.45

273.5
7.0
266.5

-22.8
55.4

F15.0
7.0
266.5

F14.0
42.5

1+27

273.10

272.43

272.73

272.43

273.10

BM, 280.03
5.40
285.5
7.5
278.0

-10.0
36.5

F6.2
7.5
278.0

-8.6
24.6

1+07

273.75

273.08

273.43

273.18

273.85

TP 272.59
0.95
273.54
12.18
285.5
5.4
280.1

+3.3
22.8

C4.6
5.4
280.1

+6.0
25.5

1+00

Fd. Tacked Hub P.C.L.

TP 261.36
7.2
262.08
12.17
274.25

+26.1

C5.9
4.5
281.0

+6.2
25.7

0+87

P.V.C.

TP 249.91

274.50

273.83

274.23

274.03

274.70

285.5
4.5
281.0

+6.6
26.1

C5.9
4.5
281.0

+6.2
25.7

274.75

+5.6
28.4

0+50

N.W. Cor. Rich + Ups 283.95 BM
3.12
287.07
7.04
285.45
7.43
278.02

276.12

275.45

276.04

276.02

276.69

276.74

285.45
7.43
278.02

+4.9
24.4

C5.0
7.43
278.02

+5.8
25.2

+5.0
27.5

0+07

= N. P. Myrtle Ave

SE Cor. Rich + Myr 280.03 BM
5.42
285.45
13.05
272.40

278.00

277.33

278.13

278.33

279.00

0+00

= N T'line Myrtle Ave Fd. Tack in pave.

BM
280.03
IN CURB
SE Cor Rich
+ MYRTLE

		West		±	East		
		Curb	Gutter		Gutter	Curb	
3+07	P.R.V.C.	41 273.9 38. 270.1		3.8 270.1		F49	
		261.8 36 258.2	276.10	F5.4 36 258.2	275.43	275.52	274.98 - 275.65
2+87		250.6 6 250.0	275.05	F15.7 06 250.0	274.38	273.88	273.88 274.55
2+67	Top Five Hyd Brooks	272.94 11.37 284.31 4.11 280.20 BM 250.6 70 243.6	274.10	F23.5 10 243.6	273.43	273.48	272.93 273.60
2+47		242.6 5.4 237.2	273.40	F29.2 5.4 237.2	272.73	272.76	272.18 272.85
2+27		250.55 .69 TP 249.86 11.95 261.81 X 0.50 7.0 242.6 235.6	273.00	F35.1 7.0 235.6	272.33	272.33	271.73 272.40
2+07	± Curb	TP 261.91 12.56 273.97 X 0.93 TP 272.94 250.6 96 241.0	272.65	F34 272.6 39.0 79.6 -37.2 77.3	271.98	272.06	271.53 272.20
1+92				F36.2 9.6 241.0	271.45	271.05	271.25 271.6
1+87	± Curb inlet E.+W.	TP 249.91 0.61 250.55 X 12.25	272.45	F30.8 2.9 247.7	271.78	271.88	271.38 272.05
1+82		TP 238.30 43.4 242.64 X 1.26 247.7	271.45	F24.3 50.3	271.45	271.05	271.05 286 64.4
1+67	Sewer M.H.	BM 241.38	272.45		271.78	271.96	271.53 272.20

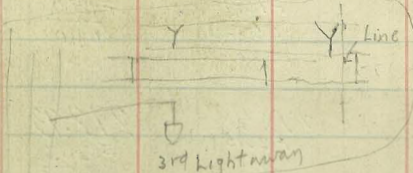
West Gutter E East Gutter

4+27 P.V.C. (W)

279.65
+3.5
25.3
279.60 278.93 279.03
+3.8 278.53 279.20 279.25
+4.3
2.65

4+17²⁵ Fd Tacked Hub P.C.L. Marked 4+17³²

4+17



Not. For sight at Penn. + Rich

279.65
+4.6
26.9
279.60 278.93 279.21
+4.8 278.88 279.55 279.60
+4.5
26.8

4+07

B.M. 280.23
3.55
283.75

279.65
+2.5
23.8
279.60 278.93 279.26
+5.0 278.98 279.65 279.70
+3.6
25.4

3+97 P.C. Ret on Rt. ✓ set & Hub 4-21-76

279.60 278.93 279.26
+2.8 278.98 279.65 279.70
+1.5
24.2

3+87 P.V.C. (E)

279.65
-0.5
20.5
279.60 278.93 279.13
278.94 278.83 279.50 279.55
+1.4
22.1

3+67 E.V.C. (W)

3+57

3+52 P.C. Ret. on Lt. ✓ set at in driveway

3+50

279.20 278.53 278.63
277.53 278.20

3+30³⁵ E.V.C. (W)

Detail page 3

277.55
+4.1
22.2
277.50 276.83 276.76 276.08 276.75

3+27 E.V.C. (E)

276.53 276.23 276.90 276.95
+1.3
21.9

3+21⁶⁶ Fd. Tacked Hub P.C.L. Marked 3+21⁷²

3+17 P.C. Ret on Rt. ✓

275.93
+1.9 275.63 276.30 276.35
+0.5
20.8

West
Curb Gutter

±

East
Gutter Curb

6+42 Curb Line { BC to Rt on East
 { BC " Lt on West
 Def. 0°00' Def. per ft. 200.61"

264.04
 -27.34
 5.5

264.5
 -22.6
 33.7

6+37 264.30 264.75 263.58 264.03 263.98 264.65 264.70

6+17 265.45 265.40 264.73 265.13 264.93 265.60 265.65

5+97 266.75 266.70 266.03 266.36 266.08 266.75 266.80

5+77 R.V.C. (E+W) 269.78 268.15 267.48 267.78 267.48 268.15 268.20

-31.20
 17.4

-10.1
 25.0

5+50 set of Hub 4-21-36 270.35 270.30 269.63 269.93 269.63 270.30 270.25

-20.0
 50.0

-8.8
 33.2

5+00 274.38 274.28 273.61 273.91 273.61 274.28 274.23

-1.8
 22.7

+0.2
 20.3

4+75³¹ Fd tacked Hub P.C. Marked 4+75 47

4+47 E.V.C. (E+W) 278.55 278.50 277.83 277.88 277.33 278.00 278.05

+3.0
 25.9

+4.5
 26.5

4+37¹⁴ P.C. of Ret. on Lt.

4+37 279.25 279.20 278.53 278.56 277.98 278.65 278.70

+3.3
 25.0

+4.2
 26.5

Note. For Latest
 Grades from Sta 4+87
 to 7+97 see
 Pages 1-2
 4-25-36

	Def.	West Curb	West Gutter	East Gutter	East Curb
7+97 ⁵⁴	4-11-40	262.85 262.80	262.13	265.13	265.80 265.85
7+77 ⁵⁴	3-21-30	30215 262.10	261.43	263.93	264.60 264.65
7+57 ⁵⁴	2-14-38	261.80 261.75	261.08	263.08	263.75 263.80
7+37 ⁵⁴	1°-07-46	261.15 261.60	260.93	262.53	263.20 263.25
7+22 ²⁷			260.60	262.00	
7+17 ²⁷	PRC Curb Line E+W = $\frac{1}{2}$ Curb Inlet 40° 11' 40"	261.70 261.65			263.00 263.05
7+12 ²⁷			260.60	262.00	263.05 263.12 263.18
6+97	$\frac{1}{2}$ = R to pt. on R for Curb 3° 03' 53"	262.00 261.95	261.28	262.38	263.05 263.10 263.15 263.20
6+77	1° 57' 01"	262.50 262.45	261.78	262.73	263.40 263.45
6+70	Long Chord 75.20				263.45 263.52 263.58
6+57	0° 50' 09"	263.75 263.70	262.53	263.78	263.95 264.00 264.05 264.10

Culvert No 1 bet.
Myrtle + Brooks
150' - 24" R.C. Pipe

B.M.	<u>241.38</u>	241.38
	6.87	69
	<u>242.25</u>	242.07
		23

242.07	
<u>233.00</u>	9.07
9.07	779
806	1.28
<u>6.101</u>	

242.07	
<u>238.00</u>	4.07
4.07	362
4.14	45
.07	

242.25	
<u>238.00</u>	4.25
4.25	825
8.40	1.04
<u>.85</u>	

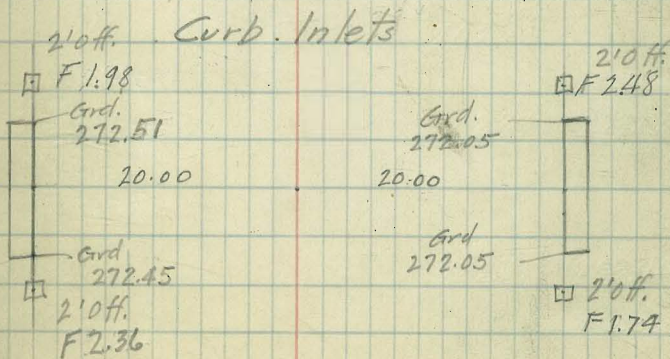
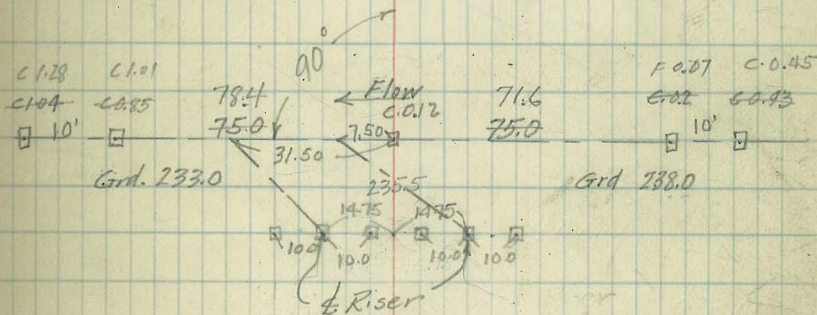
242.25	
<u>235.50</u>	6.75
6.75	6.63
	.12

242.25	
<u>238.00</u>	4.25
4.25	825
4.05	352
.20	.93

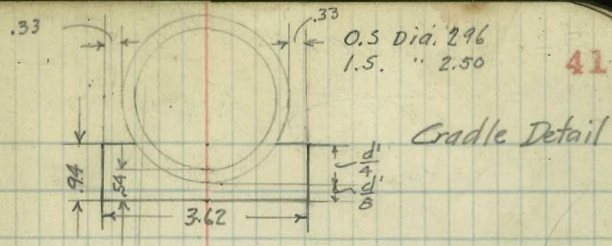
2+07⁰ & Culvert

1+87 & Catch basin inlet

1+87
<u>7.5</u>
1+79.5
<u>15.0</u>
1+94.5

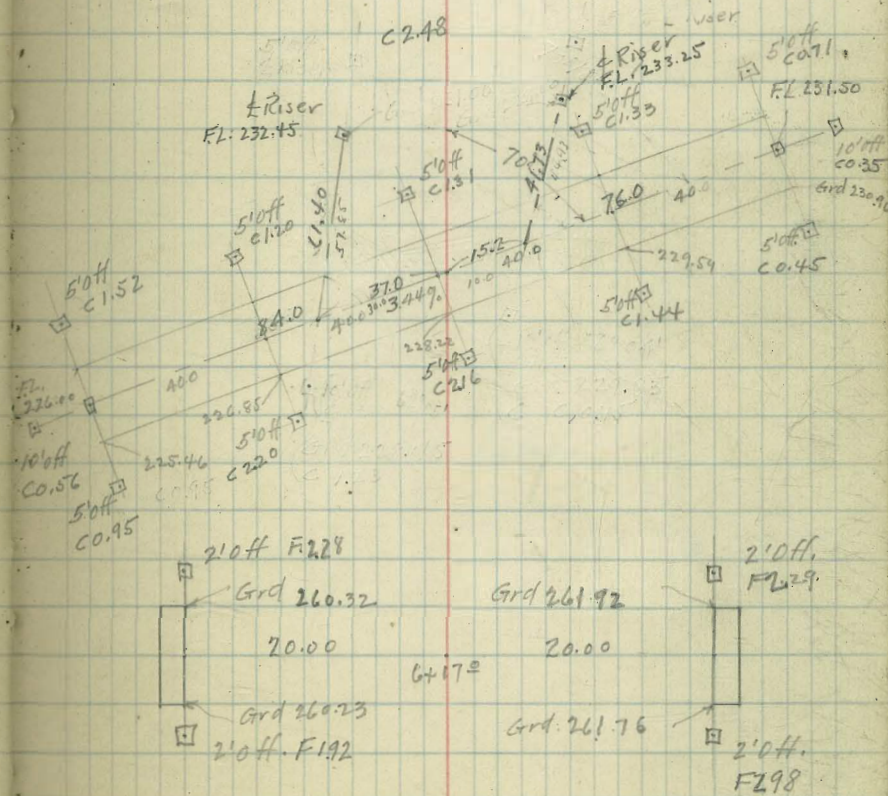


Culvert No 2. bet.
Brooks + Cypress



6+70.0 ± Int Culu

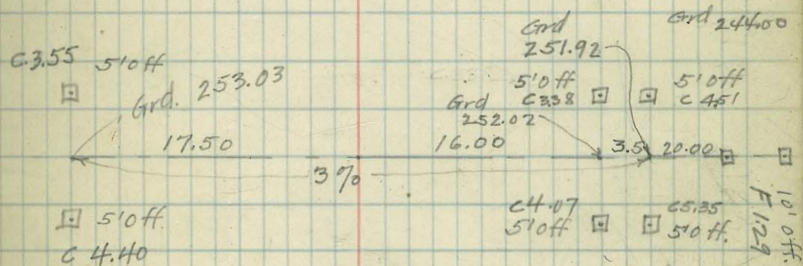
7+17.0
75
7+09.5
15.0
7+24.5



Culvert No 3 Sta.
~~7+00~~
~~7+75~~ Richmond St. Ext.

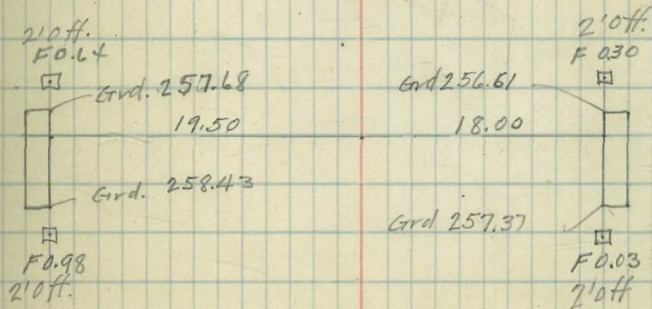
Note: $\frac{1}{2}$ Culv. on Rad. Line

7+00 Def 2°00'01" Ch. 73.47



Detail of Inlets:

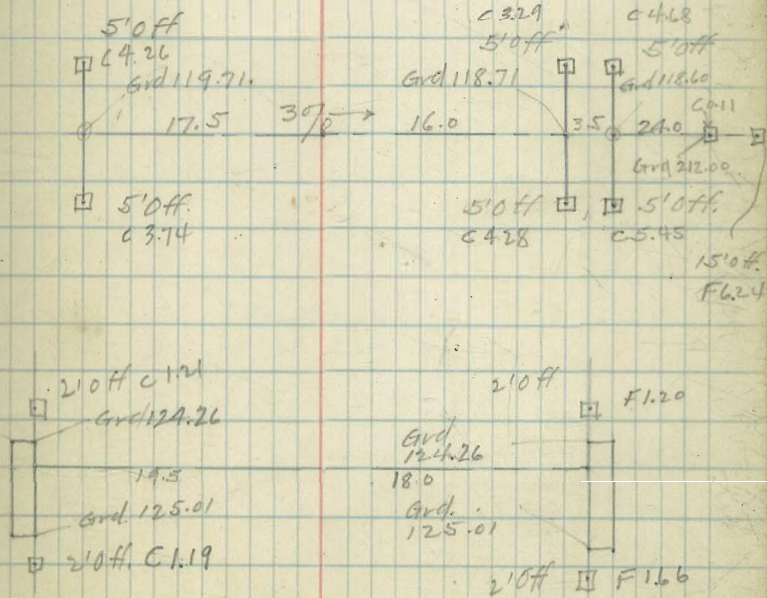
6+26.50 B.C.



Culvert No 4 Sta
 11+75
 10+60^e. Richmond St Ext.

43

11+75

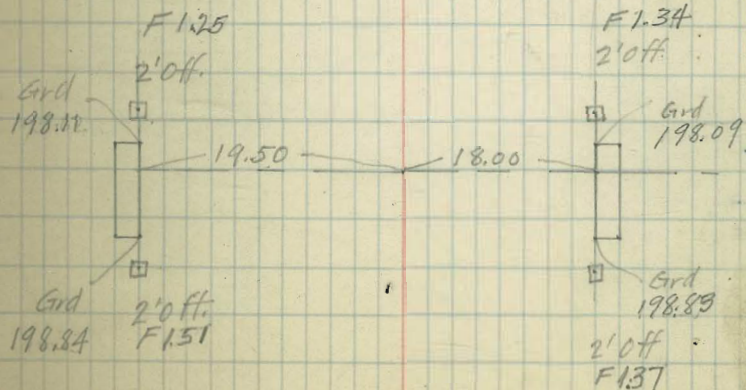
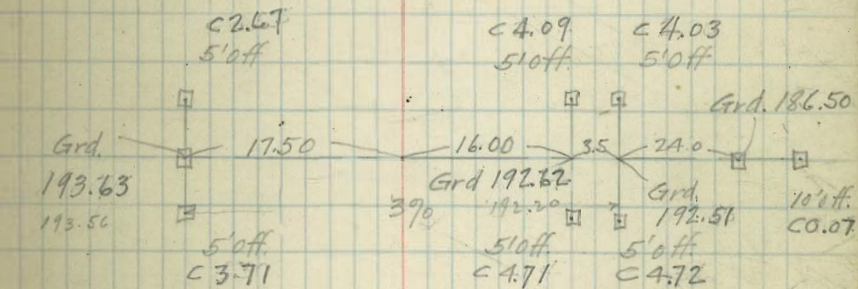


Culvert No 5 Sta.
14+60^e Richmond St. Ext.

Culvert No 6 Sta.
15+62
18+15² Richmond St. Ext.

45

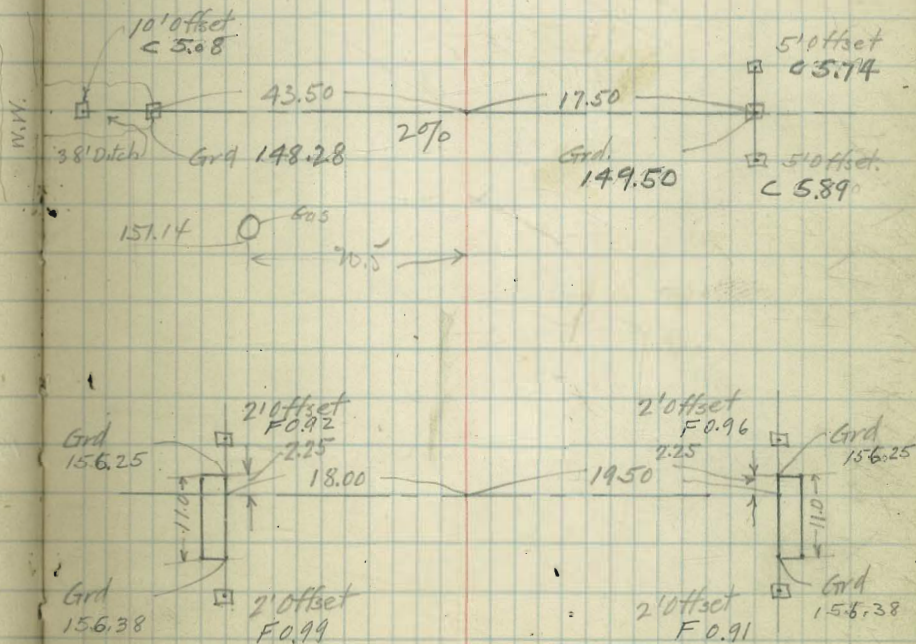
15+62



Culvert No 7 Sta.
4+75° Canyon Way

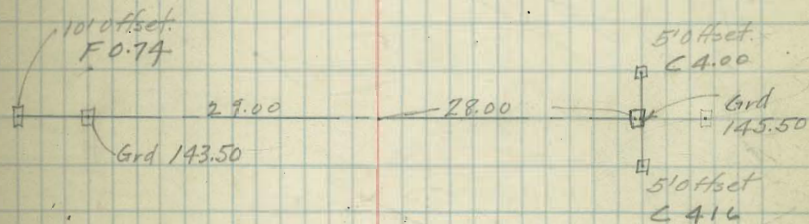
46

4+75

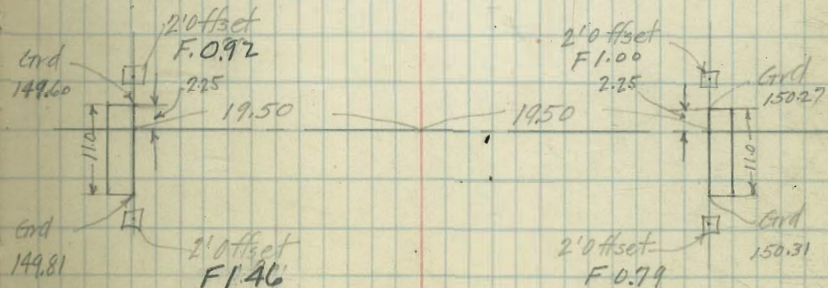


Culvert No 8 Sta.
 10+03⁸⁰
 10+00⁰ Canyonada Way

10+03⁸⁰



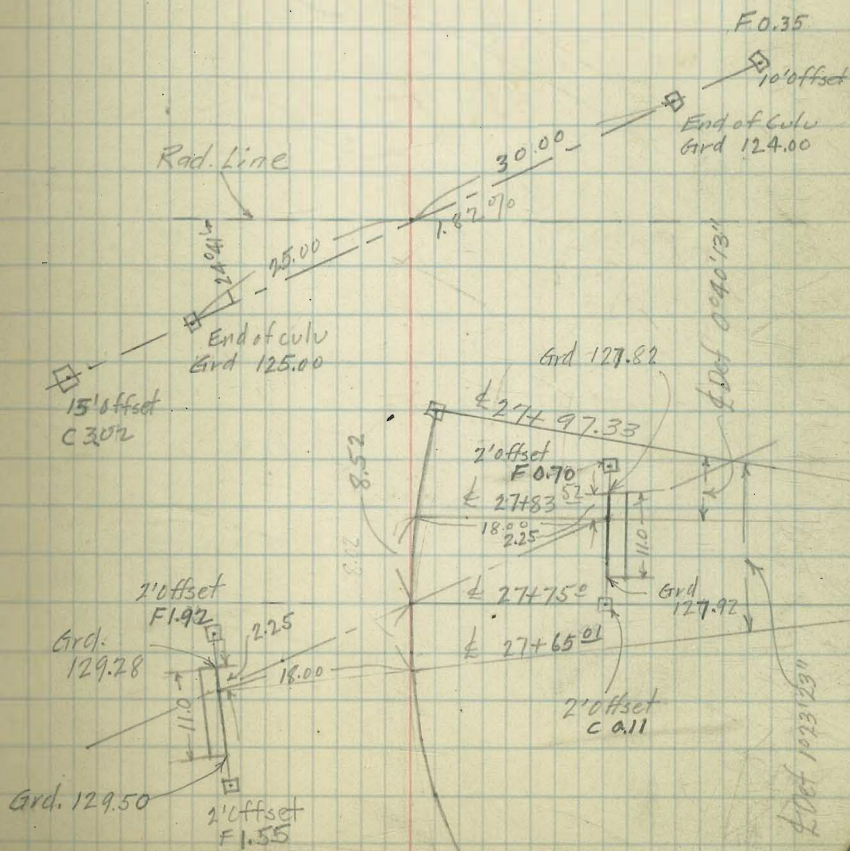
Details of Curb Inlets



Culvert No 9 Sta
 27+75
 27+65^o - Canyon Way

27+97³³ EC

27+75 P.O.C.

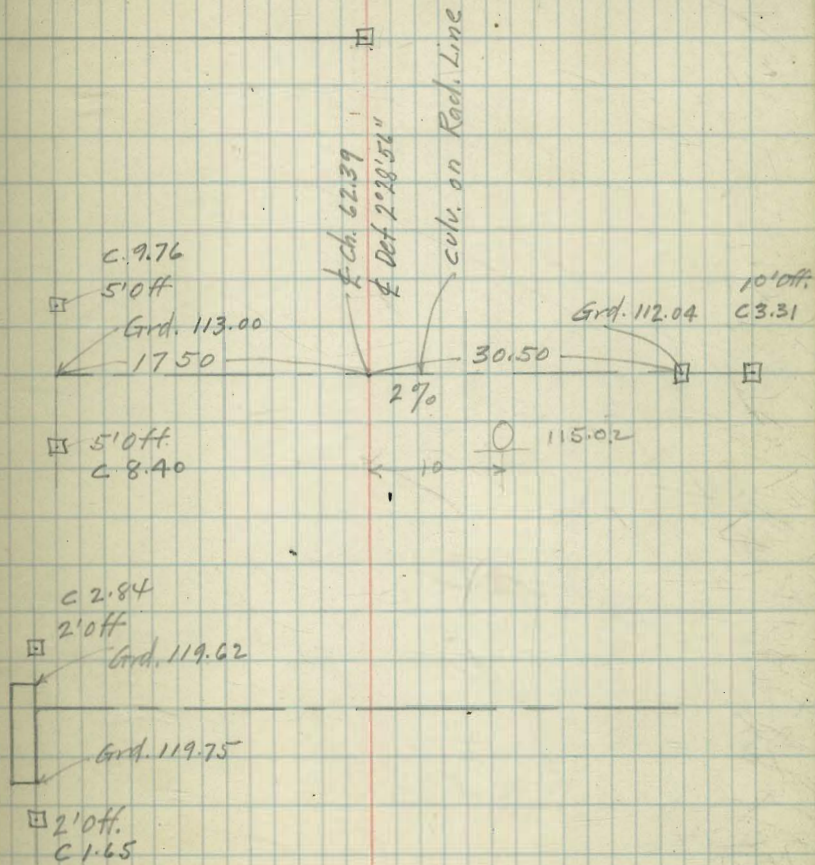


Culvert No 10 Sta
34+49.33
34+50.9 Canyon Way

49

35+12.33 E.C.

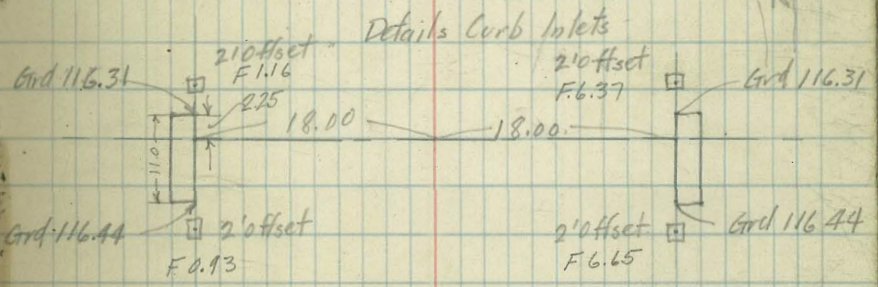
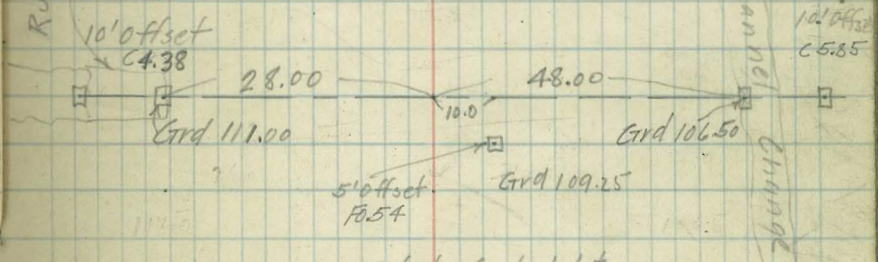
34+49.33



Culvert No 11 Sta.
 37+59.0
 37+55.0 - Canyon Way

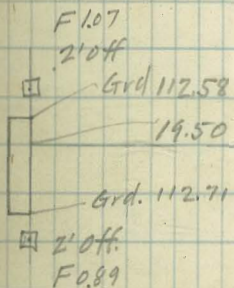
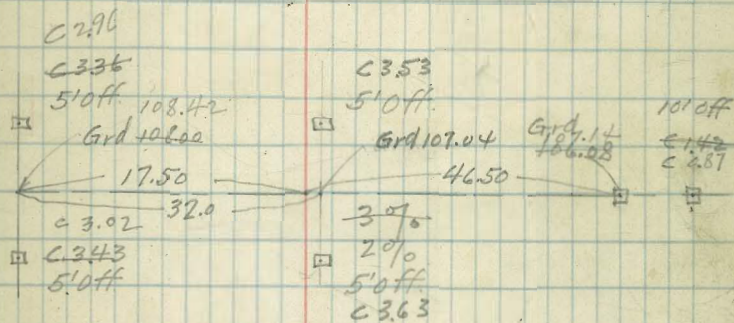
Rubble over spill from Expo.
 construct Rubblegotten Grounds

37+59.0



Culvert No 12 Sta
 40+66²⁰
 42+90 Canyonada Way

40+66²⁰

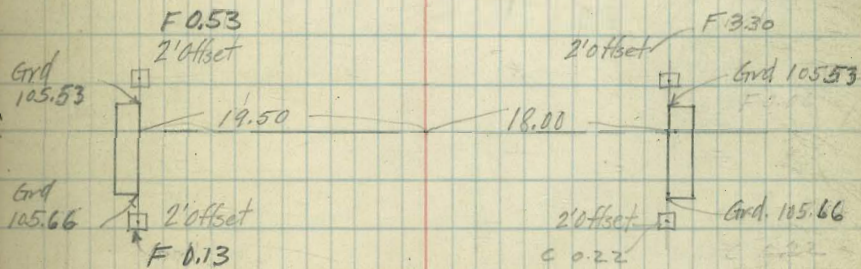
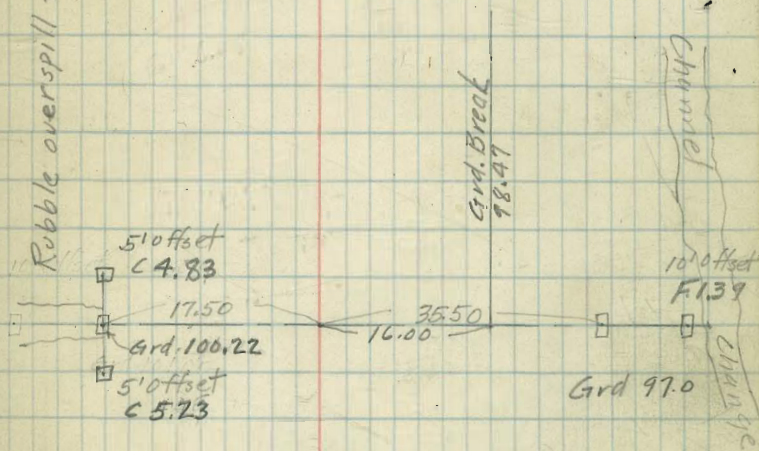


Culvert No 13 sta
 46+46²
 46+45⁰ Canyon Way

46+46

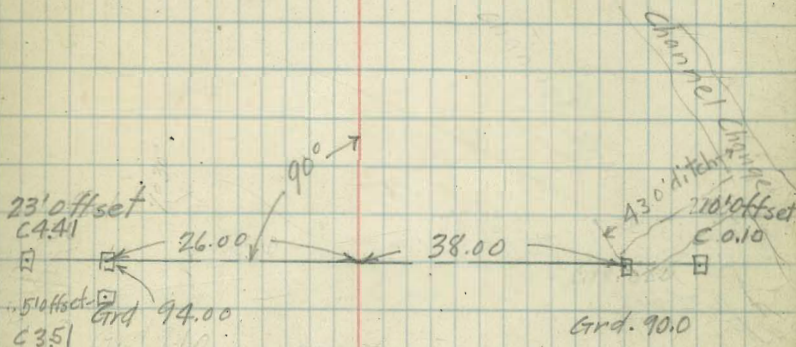
Rubble overspill from Expo Grounds 104.56

52

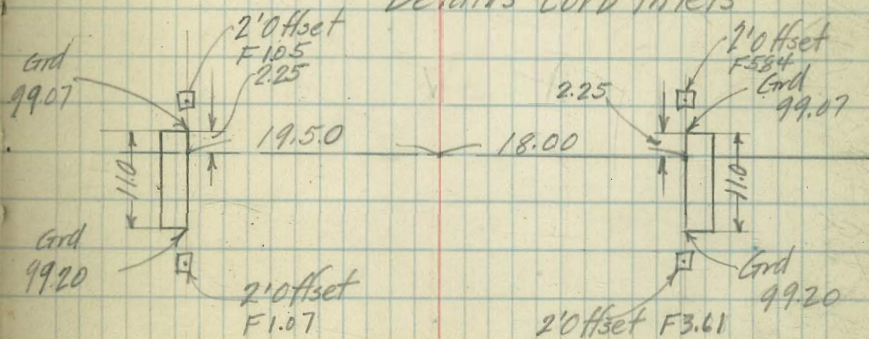


Culvert No. 14 Sta.
 51+77^o
 51+75^o Canyon Way

51+77



Details Curb Inlets



Culvert No 15 Sta.
52+55⁰
52+75⁰ Canyonada Way

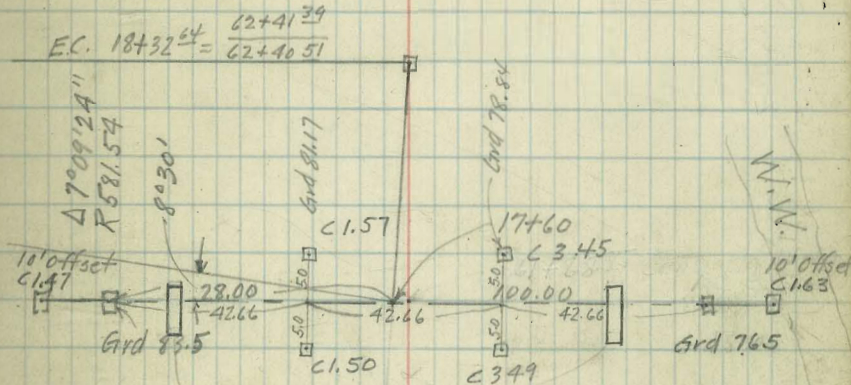
54

52+55 $\frac{1}{2}$ Culv.

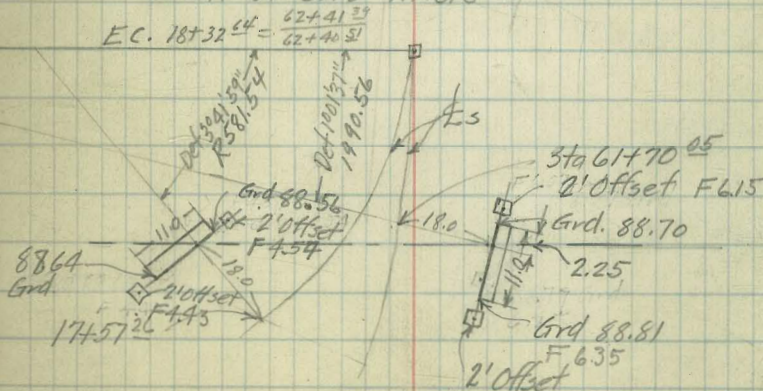


Culvert No 16 Sta
 17+60[±] Road to Park Blvd.
 62+45[±] Canyon Way

17+60



Detail of Curb Inlets



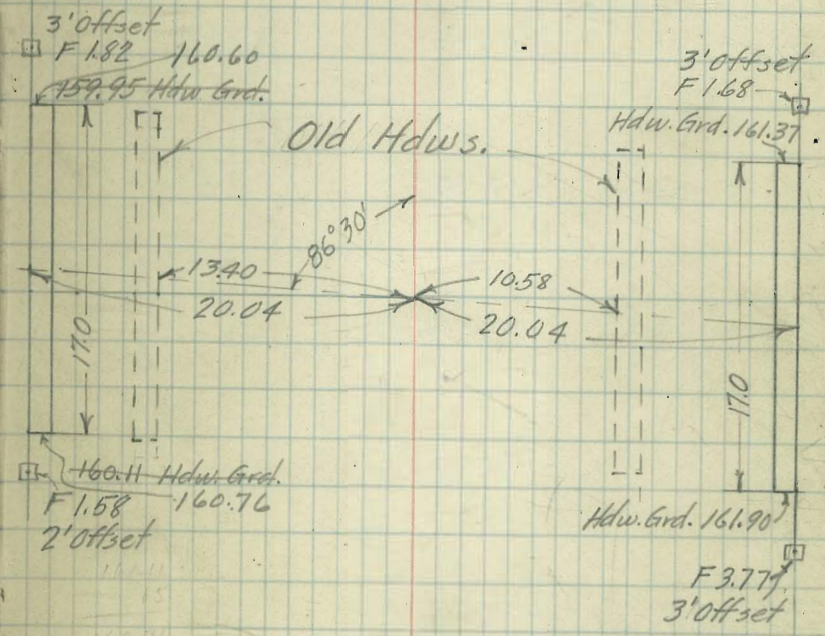
Extention of Bridge Sta.
 1+93⁶³ Can yada Way

6+39 P.O.L.

INDEXED
 W.K.
OCT 14 1948

1+93⁶³

1+64⁹³ E.C.



Grade change from Sta. 54+17.96
to Sta 62+41.31 Canyonada Way.

57

57+75	13°07'37"		92.50	91.96	91.35	39 35 24
57+50	12°12'28"		92.86	92.21	91.59	
57+00	10°22'10"		93.36	92.71	92.06	
56+50	8°31'52"		93.86	93.21	92.56	
56+00'	6°41'34"		94.36	93.71	93.06	
55+50	4°51'17"		94.85	94.20	93.55	
55+00	3°01'00"		95.35 4.85 5	94.70	94.05	
54+50 17.96 32.04	1°10'42"		95.75	95.20	94.44	
54+17.96 BC		Def. per ft 132.358"	95.87	95.52	95.16	

60+18 ⁴¹	2°31'41.8"		89.54	89.54	88.67
60+00	2°15'48"		89.75	89.72	89.42
59+75	1°54'12.8"		90.08	89.97	89.62
59+50	1°32'37.6"		90.41	90.22	89.92
59+25	1°11'02.3"		90.72	90.42	90.17
59+00	0°49'27.1"		91.18	90.72	90.41
58+74 ⁶¹	P.C. Ref 011 Lt. 0°27'31.7"		91.32	90.97	90.67
58+42 ⁷³	B.C.	Detpett. 51.811"	91.73	91.29	90.90
58+09 ⁵¹	EC 14°23'45"		92.16	91.61	91.12
58+00	14°02'46"		92.28	91.70	91.20

62+41 ³⁹ E.C.	5°44'15"	87.02	87.32	87.02	59
62+25	5°36'05.3"	87.19	87.47	87.17	
62+00	5°08'30.1"	87.50	87.72	87.42	
61+75	4°46'54.8"	87.81	87.97	87.67	
61+50	4°25'19.6"	88.12	88.22	87.92	
61+25	4°03'44.3"	88.40	88.47	88.17	
61+00	3°42'09.1"	88.72	88.72	88.42	
60+75	3°20'33.8"	88.97	88.97	88.67	
60+50	2°58'58.6"	89.22	89.22	88.92	
60+25	2°37'23.2"	89.47	89.47	89.17	

Grades for Road Connecting
Park Blvd. + Canada way

61

3+00	5°43'48"			
2+50	4°46'30"	192.56	192.21	191.86
2+00	3°49'12"	194.65	194.30	193.95
1+50	2°51'54"	196.45	196.10	195.75
1+00	1°54'36"	198.25	197.90	197.55
0+85	= Inton. Lt.	198.75	198.44	198.10
0+50	0°57'18"	199.65	199.20	199.38
0+25		200.35	200.60	200.30
0+00	BC to Lt.	201.20	201.50	201.20

6+00	15°03'43"	166.15	166.10	164.05
5+50	12°11'50"	171.25	170.20	169.15
5+00	9°19'57"	175.35	174.30	173.25
4+50	6°28'04"	179.45	178.40	177.35
4+00	3°36'11"	183.55	182.50	181.45
3+75	3°36'11"	185.55	184.48	183.43
3+50	0°44'18"	187.00	187.36	185.42
3+37 ⁴	BC to Rt.	187.70	187.25	186.45
3+30 ⁷⁴	E.C. 6°19'00"	189.48	189.35	188.80

9+50			137.03	137.40	137.25
9+25			139.15	139.45	139.15
9+00			141.25	141.50	141.15
8+50			145.80	145.60	145.00
8+25 ⁰⁴ E.C.	27°57'22"		148.15	147.67	146.80
8+00	26°31'15"		150.55	149.70	148.75
7+50	23°39'22"		154.85	153.80	152.75
7+00	20°47'29"		158.95	157.90	156.85
6+50	17°55'36"		163.05	162.00	160.95

13400		107.83	108.70	109.57
12450		111.93	112.80	113.67
12400		116.03	116.90	117.77
11450		120.13	121.00	121.87
11400		124.23	125.10	125.97
10450		128.33	129.20	130.05
10434 ⁰²	BC. to Lt.			
10425 ⁰²	BC.	130.40	131.25	131.95
10402 ⁰²	old BC.	132.45	133.13	133.65
10400				

15+75		89.25	90.12	90.12
15+50		89.83	90.70	90.70
15+25		90.86	91.73	91.73
15+00		92.01	92.88	92.88
14+76 ⁴⁰	P.C. Ret. on Rt.	93.55	94.42	94.42
14+50		95.53	96.40	96.72
14+25		97.58	98.45	99.30
14+00		99.63	100.50	101.37
		99.63		
13+50		103.73	104.60	105.47

$17+66^{89}$

87.51

87.97

87.81

 $17+42^{16}$

87.69

88.22

88.12

 $17+17^{43}$

87.87

88.47

88.37

 $16+92^{21}$

88.05

88.72

88.72

 $16+69^{98}$

88.24

88.97

88.97

 $16+43^{26}$

88.42

89.22

89.22

 $16+18^{53}$

88.60

89.47

89.47

 $16+12^{11}$

88.67

89.54

89.54

 $16+00$

88.80

89.67

89.67

~~18+32 = 62+41-51 EC~~

18+32⁶⁴ EC = $\frac{62+41-51}{62+40-51}$

18+16³⁴

17+91⁶²

87.02

87.32

87.02

87.14

87.47

87.17

87.32

87.72

87.50

Grade change from Sta 19+20
Richmond St Ext. to Sta 4+60
Canyada Way.

68

20+60	15° 30' 59.8"	166.12 + 2.1 21.6	165.72 + 0.1	165.43 + 2.6 22.1
20+50	15° 07' 31"			
20+40	14° 44' 02.2"	167.25 + 2.5 22.0	166.60 + 0.4	166.02 + 2.8 22.3
20+20	13° 57' 04.6"	168.22 + 2.4 21.9	167.54 + 0.4	166.82 + 2.7 22.2
20+00	13° 10' 07"	169.30 + 3.0 22.5	168.56 + 0.3	167.81 + 2.4 21.9
19+80	12° 23' 09.4"	170.40 + 2.3 21.8	169.65 0.0	168.90 + 1.8 21.3
19+60	11° 36' 11.8"	171.56 + 1.8 21.3	170.81 - 0.7	170.06 + 1.6 21.1
19+50	11° 12' 43"			
19+40	10° 49' 14.2"	172.80 00.5 19.5	172.05 - 0.3	171.30 + 1.7 21.2
19+20	10° 02' 16.6"	174.11 + 2.1 21.6	173.36 - 0.1	172.61 + 1.0 20.5
19+00	9° 15' 19"			

1450	37°08'06"	160.09	161.19	162.35
1440	34°39'39.9"	-0.3 22.0	-0.5	-1.8 24.2
1425	30°56'45"			
1420	29°42'34.7"	160.30	161.57	162.87
		-0.5 22.3	-0.8	-2.4 25.1
1400	24°45'28.5"	160.58	161.95	163.30
		-1.3 23.5	-0.8	-1.5 23.8
0480	19°48'22.8"	160.95	162.32	163.71
0475	18°34'03"	0.0 21.5	-0.7	-2.3 25.0
0460	14°51'17.1"	161.50	162.78	164.01
		+0.2 19.7	-1.1	-1.8 24.2
0450	12°22'42"			
0440	9°54'11.4"	162.29	163.32	164.30
		+0.5 20.0	-0.9	-0.8 22.7
0425	6°11'21"			
0420	4°57'05.7"	163.32	163.94	164.60
		+0.7 20.2	-0.4	+0.2 19.7
	ch 19.98			
20+87 ¹⁸ = 0400 = BC Fo LT		164.45	164.65	164.88
		+1.1 20.6	-0.2	+1.8 21.9
20+75 ⁷⁵ EC.	16°08'00"	165.20	165.20	165.20
		+1.5 21.0	-0.2	+2.2 21.7

3+20

157.50

157.80

157.50

3+00

157.86

158.16

157.86

2+80

158.22

158.52

158.25

2+60

158.59

158.89 0.23 cr

158.72

2+40

158.97

159.27

159.22

2+20

159.35

159.65 0.08 cr

159.79

2+00

159.58

160.04

160.36

B.M. NE Cor W. Bridge
abutment Elev. 161.89

1+80

159.77

160.42

161.00

$$\begin{array}{r} 14.93 \\ 15.07 \\ \hline \end{array}$$
1+64²³ EC

40°50'00"

$$\begin{array}{r} -0.6 \\ 22.4 \\ \hline \end{array}$$

159.88

160.71

161.60

-0.7

$$\begin{array}{r} -23 \\ 250 \\ \hline \end{array}$$

4+60

155.46

155.76

155.46

4+40

155.71

156.01

155.71

4+20

155.97

156.27

155.97

4+00

156.26

156.56

156.26

3+80

156.55

156.85

156.55

3+60

156.87

157.17

156.87

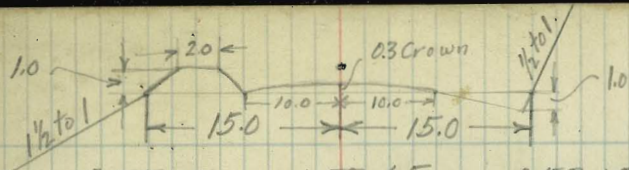
3+40

157.17

157.47

157.17

Cross Road from Alabama St
to Park Blvd. across Powder
House canyon Road.



72

3+20	17°03'55.2"			255.15	253.65	252.15
				-0.6 18.9	-0.9	+0.7 15.4
3+00	15°09'19.8"			256.50	255.00	253.50
				-1.9 17.9	-0.6	+0.8 15.4
2+80	13°14'44.4"			258.75	257.10	255.15
				+0.8 15.4	-1.0	+0.4 15.2
2+68 ⁷⁸	12°10'27.3"	46.29 25 21.29	68.79 46.19 22.49	259.35	258.00	256.55
				+0.3 15.2	-0.1	-0.6 15.9
2+46 ²⁹	10°01'35.9"	80. 68.98 11.22		259.50	259.30	258.05
				+0.6 15.3	0.0	-0.8 16.2
2+25	7°59'37."			259.60	259.65	259.15
				+0.1 15.4	+0.3	-0.6 15.9
1+97 ⁵⁷	5°22'27.4"			259.60	259.75	259.80
				+1.3 15.7	+0.9	-0.5 15.8
1+50	0°49'54.2"			259.85	260.15	260.04
1+41 ²⁹ B.C.			Det per ft. 343.773"	259.90	260.20	260.10
				+1.2 15.6	+0.8	+0.2 15.1
1+00				260.20	260.45	260.35
				+1.1 15.6	+0.7	+0.1 15.1
0+50				260.45	260.75	260.45
				+0.7 15.4	+0.3	-0.2 15.3
0+25				260.60	260.60	260.20
0+00				260.72	260.15	259.65

6+80			190.55 $\frac{+7.0}{18.5}$	190.85 $\frac{+6.5}{18.5}$	190.55 $\frac{+7.2}{18.6}$
6+60			193.60 $\frac{+6.7}{18.4}$	193.86 $\frac{+6.7}{18.4}$	193.56 $\frac{+6.8}{18.4}$
6+40			197.29 $\frac{+6.4}{18.2}$	197.29 $\frac{+7.3}{18.2}$	196.65 $\frac{+7.8}{18.9}$
6+20			201.10 $\frac{+6.7}{18.4}$	200.72 $\frac{+7.4}{18.4}$	199.85 $\frac{+8.8}{19.4}$
6+00 E.C.	43° 48' 12"	± Hub Elev 211.38	204.90 $\frac{+5.7}{17.9}$	204.15 $\frac{+7.2}{17.9}$	203.10 $\frac{+9.4}{19.7}$
5+75	41° 24' 57"		209.60 $\frac{+5.0}{17.5}$	208.44 $\frac{+8.4}{17.5}$	207.18 $\frac{+11.9}{21.0}$
5+50	39° 01' 42.7"		214.62 $\frac{+5.3}{17.7}$	212.72 $\frac{+10.7}{17.7}$	211.30 $\frac{+14.4}{17.8}$ 22.2
5+25	36° 38' 28.4"		218.51 $\frac{+5.4}{18.0}$	217.01 $\frac{+12.2}{18.0}$	215.51 $\frac{+5.8}{17.9}$ +15.0 22.5
5+00	34° 15' 14.1"		222.79 $\frac{+5.5}{17.8}$	221.29 $\frac{+9.5}{17.8}$	219.79 $\frac{+14.1}{17.1}$ +13.8 21.9
4+50	29° 28' 45.5"		231.36 $\frac{+4.0}{17.0}$	229.86 $\frac{+1.4}{17.0}$	228.36 $\frac{+1.6}{15.8}$ +10.6 20.3
4+00	24° 42' 16.9"		239.93 $\frac{+3.9}{17.0}$	238.43 $\frac{+6.1}{17.0}$	236.93 $\frac{+7.9}{19.0}$
3+50	19° 55' 48.3"		250.22 $\frac{-0.8}{16.2}$	248.72 $\frac{+0.9}{16.2}$	247.22 $\frac{+2.8}{16.4}$
3+40	18° 58' 30.6"		251.93 $\frac{-1.2}{16.2}$	250.43 $\frac{+0.6}{16.2}$	248.93 $\frac{+2.0}{16.1}$

Elev 243.68

9420 2°57'02.4"

9400 1°48'17.2"

8497 ~~Int Box~~ 1037' 53.4"
Culu.

8480 0°39'32"

6470

8468⁵⁰ B.C. ~~Hub~~ Elev. 184.33

8460

8440 ~~f~~ Culu

8475

8420

8400

7464

5475

7449

7434

7420

7450

7400

Def. per ft.
206.264"

-6.5 191.21 191.38 189.55 -5.2
24.8 190.54 189.34 188.09 22.8

-6.6 190.32 189.48 188.70 -5.2
24.9 189.55 188.43 187.30 22.8

189.55 188.75 188.10

188.68 187.70 186.90

189.18 188.39 187.85

187.24 187.39 186.69

188.92 188.20 187.68

187.90 187.16 186.70

188.35 187.80 187.35

187.33 186.97 186.60

187.80 187.48 187.15

186.87 186.66 186.53

-3.4 187.20 187.20 186.95 -2.3
20.1 186.50 186.67 186.50

186.16 186.80 186.55
186.10 186.78 186.65

+0.4
186.52 186.86 187.15
187.06

186.16 186.80 186.55
186.10 186.95 186.65
+0.4

186.62 187.30 187.00
0.0 -0.4 +1.1
15.6

188.25 188.71 188.41
+3.8 +1.5 +2.7
16.9 16.4

9120 2°57'02.4"
 9100 1°48'17.2"
 8197 Int Box
 -Culv. 1°37'58.4"
 8180 0°39'32"

6170
 8168⁵⁰ B.C. Hub Elev. 194.33

Def. per ft.
 106.264"

8160 EC

8140 & C

8120

8100

7164

7125

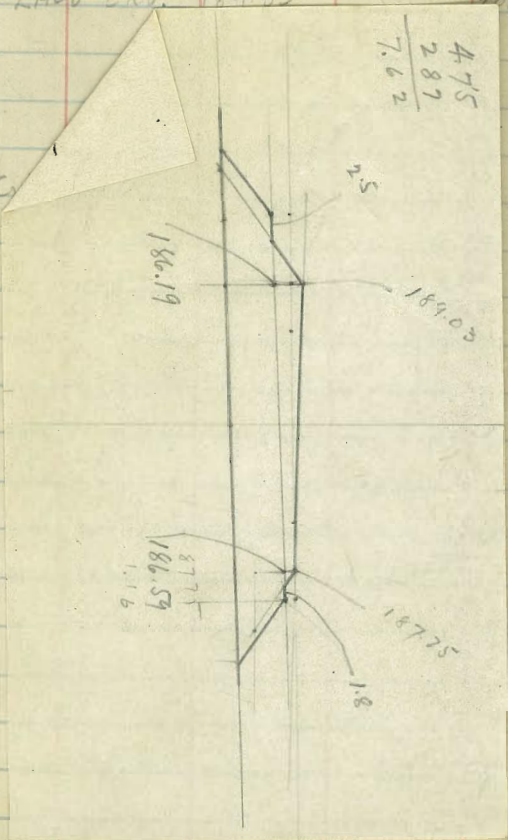
7149

7134

7120

7150

7100



-6.5	191.21	191.38	189.55	-5.2
24.8	-190.59	+189.34	+188.09	22.8
-6.6	190.32	189.48	188.70	-5.2
24.9	+189.55	+188.43	-187.30	22.8
	189.55	188.75	188.10	
	188.68	187.70	186.90	
	189.18	188.39	187.85	
	187.24	187.39	186.69	
	188.92	188.20	187.68	
	187.90	187.16	186.70	
	188.35	187.80	187.35	
	187.33	186.97	186.60	
	187.80	187.48	187.15	
	186.87	186.66	186.53	
-3.4	187.20	187.20	186.95	-2.3
20.1	-186.50	-186.67	-186.50	
	186.16	186.80	186.55	
	186.10	186.78	186.65	
	+0.4		+0.4	
	186.66	187.06	187.06	
	186.57	186.86	187.15	
	186.16		186.55	
	186.10	186.95	186.65	
		+0.4		
	186.62	187.30	187.00	
	0.0	-0.4	+1.1	
			15.6	
	188.25	188.71	188.41	
	+3.8	+1.5	+2.7	
	16.9		16.4	

12+00					215.35 -2.2 24.3	215.65 -1.3	215.35 +3.2 16.6
11+75	12.70	228.95	0.50	216.25	212.70 -4.1 24.3	213.00 +0.5	212.70 +4.8 17.4
11+50					210.06 -2.0 24.0	210.36 +1.7	210.06 +6.0 18.0
11+25					^{24.0} -1.9 17.9 208.25	207.71 +2.3	207.36 +6.9 18.5 207.75
11+00					^{15.0} 0.0 15.0 205.15	205.06 +3.0	204.08 +7.6 18.8 204.70
10+75					-0.9 16.4 203.80 203.30	202.42 +2.6 202.42	201.83 +7.4 18.7 201.65
10+58 ¹⁶	EG. 1284	10° 52' 00" 216.75		203.91	+0.8 15.4 204.21 201.75	200.72 +3.1 200.85	200.00 +6.6 18.3 199.70
10+40		19° 49' 38.6"			+0.2 15.1 198.74 199.90	198.88 +3.1 198.71	199.14 +6.2 18.1 197.55
10+20		8° 40' 48.4"			+0.4 15.2 197.88 197.93	197.08 +3.0 196.81	196.22 +3.3 16.7 195.43
10+00		7° 32' 03.2"			-0.3 15.5 196.28 196.09	195.45 +3.1 194.84	194.62 +0.4 15.2 193.59
9+80		6° 23' 18"			-1.4 17.1 194.78 194.45	193.95 +3.2 193.20	193.12 -0.4 15.6 191.95
9+60		5° 14' 32.8"			-2.2 18.3 193.43 192.98	192.60 +3.1 191.73	191.27 -0.2 15.3 190.48
9+40		4° 05' 47.6"			-7.1 25.7 192.23 191.69	190.40? -0.1 190.44	190.57 +0.7 -4.8 189.19

Elev 209.27

L ± R

17+00			2.24	264.50	
16+75					
16+50					
16+25					
16+24 ⁵² BC	12.63		6.80	254.11 254.03 = 254.11	Def per. A. 206.269
16+00					
15+75					
15+50					BM. 261.57 S.W. Cor. Base plate Tressle Hng
15+00	12.84	260.83	5.44	247.99	
14+50					
8+60					
14+00					
13+50	12.36		0.35	241.07	
13+00	13.03	241.42	0.56	228.39	
12+50					
		228.45			

268.08 -12.7 34.0	268.58 +0.8	268.78 +11.0 20.5
265.48 -12.5 33.8	265.93 +0.9	265.88 +10.2 20.1
262.98 -13.0 34.0	263.28 -3.1	263.15 +0.7
260.34 -15.1 37.7	260.64 -6.5	260.34 -2.0 18.0
257.69 -17.0 40.5	258.00 -11.3	257.69 -2.5 18.8
255.05 -19.0 43.5	255.35 -5.0	255.05 +1.4 15.7
252.40 -15.9 38.9	252.70 -3.1	252.40 +4.6 17.4
247.11 -11.6 32.7	247.41 -0.7	247.11 +7.1 18.6
241.82 -5.5 23.3	242.12 +3.4	241.82 +14.6 22.3
236.52 +12 15.6	236.82 +8.9	236.52 +21.3 25.7
231.23 -8.2 27.3	231.53 +3.3	231.23 +15.8 22.9
225.94 -6.9 35.4	226.24 +2.1	225.94 +12.2 21.1
220.64 -5.8 23.7	220.94 +1.9	220.64 +9.2 19.3

19+45 ⁴² 40° 07' 00.1" P.C. Reton Rt. E Hub Elev. 291.68

19+40 39° 04' 53.6" R 150.00

19+20 35° 15' 42.6" Δ 41° 54' 30" T 134.63

19+00 31° 26' 32.0" L 219.43 Def per ft. 687.554"

18+80 27° 37' 20.6" 297.19 0.63 287.55

18+60 23° 48' 09.6

18+50 21° 53' 34.3

18+40 19° 58' 58.6

18+20 16° 09' 47.6 ch 19.98

18+00 12° 20' 36.6 ch 24.97

17+75 7° 34' 07.7"

17+72 ⁸⁷ 1285 299.18 2.24 275.33

17+50 2° 47' 38.9 ch 14.62

17+35 ³⁷ Ahead BC 36.37 Back

17+25

291.15 291.78 292.51
0.0
15.0 + 0.5

290.85 291.49 292.27
+ 0.2
15.1 + 0.1 + 0.4
15.2

289.53 290.27 291.08
- 6.9
25.4 - 3.3 - 5.1
23.4

287.92 288.85 289.80
- 22.4
49.3 - 16.8 - 7.3
29.0

286.23 287.23 288.23
- 26.1
54.2 - 13.0 - 5.1
23.9

284.42 285.42 286.42
- 29.1
58.7 - 10.4 - 5.8
23.7

282.40 283.40 284.40
- 30.1
68.2 - 15.4 - 11.4
32.1

280.28 281.28 282.28
- 29.6
59.4 - 26.2 - 19.7
44.6

278.17 279.17 280.15
- 28.8
58.2 - 22.8 - 9.2
28.8

275.11 276.52 277.42
- 27.2
55.8 - 12.4 - 4.2
21.3

273.02 273.87 274.58
- 26.2
54.3 - 7.7 - 1.5
17.3

271.50 272.32 272.82
- 22.3
48.5 - 7.7 - 1.2
15.6

270.55 271.22 271.70
- 14.5
36.8 - 3.4 + 3.4
15.7

B.M. Red Head in stump Elev 258.59

1400

1300

1300

20+19²⁸ Gutter End of Lt. Ret.

294.00

20+00

293.68

19+90³⁰ 1/2 Int Carb Line

293.66

19+83³⁰ P.C. Ret on Lt.

293.08

19+80³⁰ P.C. Ret on Lt.

292.95

293.32

19+79⁹¹ Gutter End of Rt. Ret.

294.00

0.0

15.0

19+60

292.00

292.51

293.25

19+54⁸⁰ EC.

41°54'30.1"

0.0

-0.4

19+50

40°59'29.7"

15.0

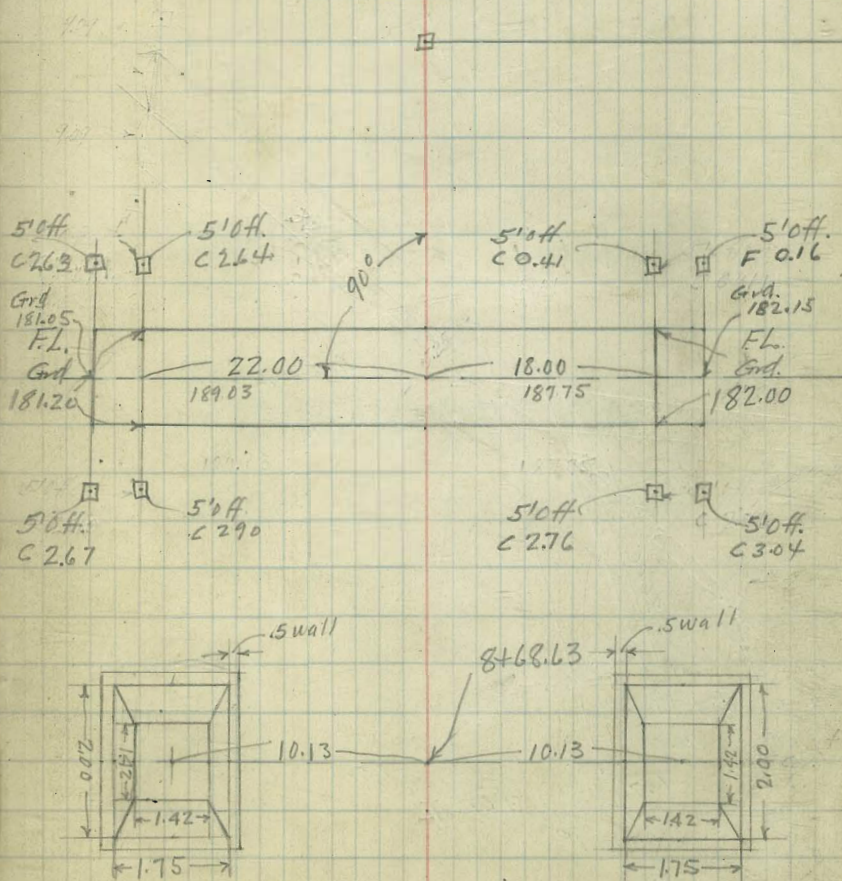
Box Culvert Sta. 8+65 Cross
 Road from Alabama to Park
 Blvd. across Powder House Canyon Rd.

8+68.50 B.C.

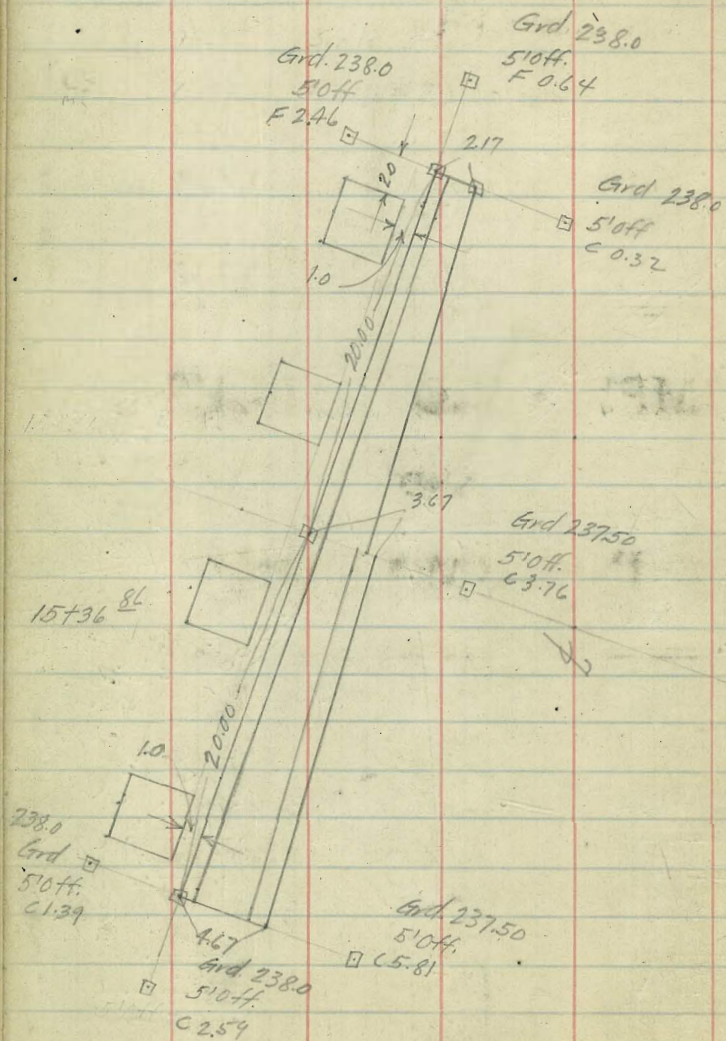
8+65

8+65⁵¹ B.C.

6+00 E.C.



Retaining Wall Sta 15+36.86 Cross
 Road from Alabama to Park Blvd.
 At footings of S.D.E. Ry Trestle



DIRECTIONS FOR USE OF TABLES

TABLE No. 1

Distance of slope stake from side or shoulder
 take for any width roadway, slope 1 1/2 to 1.
 If ground is nearly level, the cut or fill at stake
 stake is located by the double entry method in
 left column and top row. The number in body

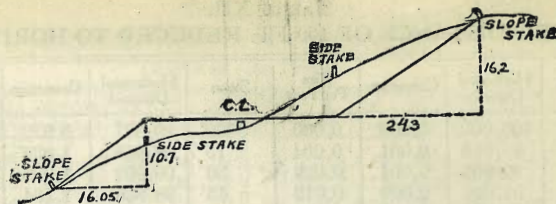
IMPROVED TABLES AND INFORMATION

TABLE No. 2

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 T may be found
 by dividing tangent (or external), oppositely 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.



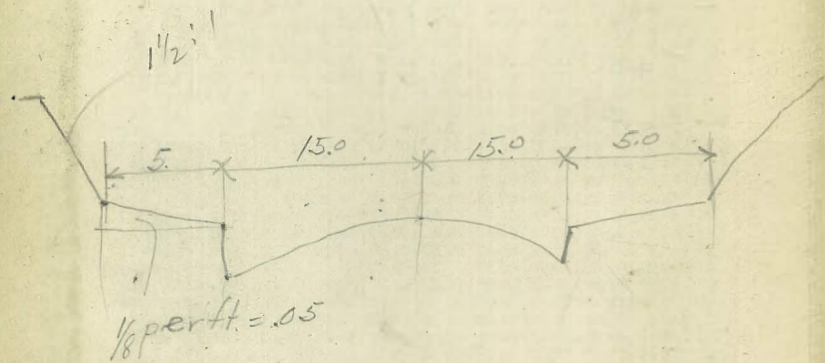
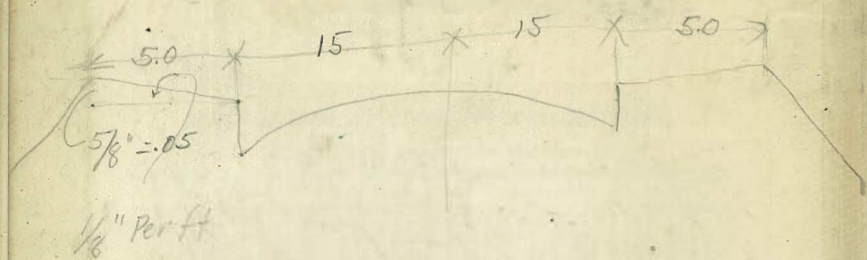
DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0 00	0 15	0 30	0 45	0 60	0 75	0 90	1 05	1 20	1 35	0
1	1 50	1 65	1 80	1 95	2 10	2 25	2 40	2 55	2 70	2 85	1
2	3 00	3 15	3 30	3 45	3 60	3 75	3 90	4 05	4 20	4 35	2
3	4 50	4 65	4 80	4 95	5 10	5 25	5 40	5 55	5 70	5 85	3
4	6 00	6 15	6 30	6 45	6 60	6 75	6 90	7 05	7 20	7 35	4
5	7 50	7 65	7 80	7 95	8 10	8 25	8 40	8 55	8 70	8 85	5
6	9 00	9 15	9 30	9 45	9 60	9 75	9 90	10 05	10 20	10 35	6
7	10 50	10 65	10 80	10 95	11 10	11 25	11 40	11 55	11 70	11 85	7
8	12 00	12 15	12 30	12 45	12 60	12 75	12 90	13 05	13 20	13 35	8
9	13 50	13 65	13 80	13 95	14 10	14 25	14 40	14 55	14 70	14 85	9
10	15 00	15 15	15 30	15 45	15 60	15 75	15 90	16 05	16 20	16 35	10
11	16 50	16 65	16 80	16 95	17 10	17 25	17 40	17 55	17 70	17 85	11
12	18 00	18 15	18 30	18 45	18 60	18 75	18 90	19 05	19 20	19 35	12
13	19 50	19 65	19 80	19 95	20 10	20 25	20 40	20 55	20 70	20 85	13
14	21 00	21 15	21 30	21 45	21 60	21 75	21 90	22 05	22 20	22 35	14
15	22 50	22 65	22 80	22 95	23 10	23 25	23 40	23 55	23 70	23 85	15
16	24 00	24 15	24 30	24 45	24 60	24 75	24 90	25 05	25 20	25 35	16
17	25 50	25 65	25 80	25 95	26 10	26 25	26 40	26 55	26 70	26 85	17
18	27 00	27 15	27 30	27 45	27 60	27 75	27 90	28 05	28 20	28 35	18
19	28 50	28 65	28 80	28 95	29 10	29 25	29 40	29 55	29 70	29 85	19
20	30 00	30 15	30 30	30 45	30 60	30 75	30 90	31 05	31 20	31 35	20
21	31 50	31 65	31 80	31 95	32 10	32 25	32 40	32 55	32 70	32 85	21
22	33 00	33 15	33 30	33 45	33 60	33 75	33 90	34 05	34 20	34 35	22
23	34 50	34 65	34 80	34 95	35 10	35 25	35 40	35 55	35 70	35 85	23
24	36 00	36 15	36 30	36 45	36 60	36 75	36 90	37 05	37 20	37 35	24
25	37 50	37 65	37 80	37 95	38 10	38 25	38 40	38 55	38 70	38 85	25
26	39 00	39 15	39 30	39 45	39 60	39 75	39 90	40 05	40 20	40 35	26
27	40 50	40 65	40 80	40 95	41 10	41 25	41 40	41 55	41 70	41 85	27
28	42 00	42 15	42 30	42 45	42 60	42 75	42 90	43 05	43 20	43 35	28
29	43 50	43 65	43 80	43 95	44 10	44 25	44 40	44 55	44 70	44 85	29
30	45 00	45 15	45 30	45 45	45 60	45 75	45 90	46 05	46 20	46 35	30
31	46 50	46 65	46 80	46 95	47 10	47 25	47 40	47 55	47 70	47 85	31
32	48 00	48 15	48 30	48 45	48 60	48 75	48 90	49 05	49 20	49 35	32
33	49 50	49 65	49 80	49 95	50 10	50 25	50 40	50 55	50 70	50 85	33
34	51 00	51 15	51 30	51 45	51 60	51 75	51 90	52 05	52 20	52 35	34
35	52 50	52 65	52 80	52 95	53 10	53 25	53 40	53 55	53 70	53 85	35
36	54 00	54 15	54 30	54 45	54 60	54 75	54 90	55 05	55 20	55 35	36
37	55 50	55 65	55 80	55 95	56 10	56 25	56 40	56 55	56 70	56 85	37
38	57 00	57 15	57 30	57 45	57 60	57 75	57 90	58 05	58 20	58 35	38
39	58 50	58 65	58 80	58 95	59 10	59 25	59 40	59 55	59 70	59 85	39
40	60 00	60 15	60 30	60 45	60 60	60 75	60 90	61 05	61 20	61 35	40
41	61 50	61 65	61 80	61 95	62 10	62 25	62 40	62 55	62 70	62 85	41
42	63 00	63 15	63 30	63 45	63 60	63 75	63 90	64 05	64 20	64 35	42
43	64 50	64 65	64 80	64 95	65 10	65 25	65 40	65 55	65 70	65 85	43
44	66 00	66 15	66 30	66 45	66 60	66 75	66 90	67 05	67 20	67 35	44
45	67 50	67 65	67 80	67 95	68 10	68 25	68 40	68 55	68 70	68 85	45
46	69 00	69 15	69 30	69 45	69 60	69 75	69 90	70 05	70 20	70 35	46
47	70 50	70 65	70 80	70 95	71 10	71 25	71 40	71 55	71 70	71 85	47
48	72 00	72 15	72 30	72 45	72 60	72 75	72 90	73 05	73 20	73 35	48
49	73 50	73 65	73 80	73 95	74 10	74 25	74 40	74 55	74 70	74 85	49
50	75 00	75 15	75 30	75 45	75 60	75 75	75 90	76 05	76 20	76 35	50

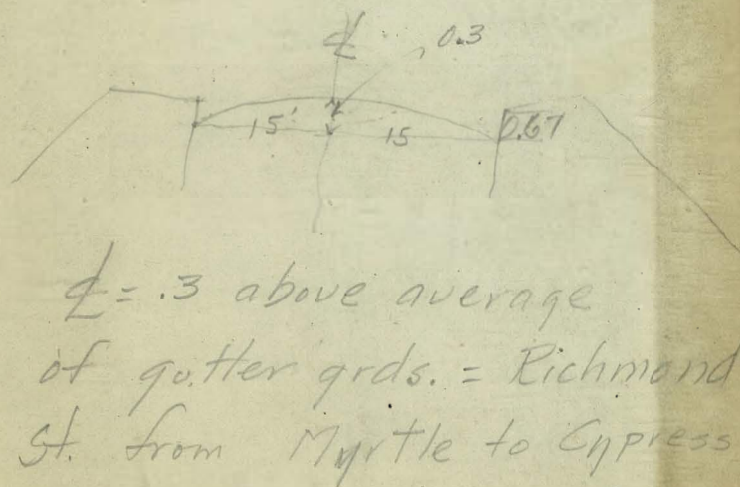
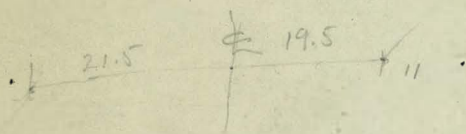
Computed by L. Leland Locke.

10+36 31 } R 635
 12+91 22 }
 16+53 54 } R 1080
 14+74 03 }
 20+04 85 }
 22+98 76 } R 421



67
 .05
 72

D.H. Perkins
 F4121



166.66
88
167.54 4.1
65.20
2.34

66.40
1.14
64.00
3.5
2.3
1.6
1.9

62.32
5.22
63.52
4.02
61.12
6.42
4.3
1.9

56.06
12.09
143.97

80
47.60
32.40

680
648.00
6120
3600
3400

67.54
60.60
6.94

61.80
6.74
8.14
6.9
4.0

67.54
56.12
11.42
67.54
57.32
10.25
10.3
54.92
12.62
11.2

20
30
680
6000
5440
5600
5400
2000

167.54
12.54
155.00
106
152.0641
51.60
4.41
52.80
3.26
50.50
546
38
1.7
9.6
1.9

156.06
46.92
9.14
47.15
8.91

46.02
10.04
42.75
13.31
42.98
13.18
42.20
14.86
14.9

19
221
4.11
276.02
250.13

69
88323
55722

59
65
34.2

51
22
83.8
793
83

28013
27220
793

159
137
29.6
178
164
34.2

80.8
83

80.8
80213
80213

9.51
454
619
27403
28013

408
71
79
86723
59522

$$\begin{array}{r} 28013 \\ 27545 \\ \hline 468 \\ 383 \\ \hline 851 \end{array}$$

$$\begin{array}{r} 28013 \\ 27602 \\ \hline 411 \\ 383 \\ \hline 829 \end{array}$$

$$\begin{array}{r} 28013 \\ 27383 \\ \hline 630 \\ 502 \\ \hline 128 \end{array}$$

$$\begin{array}{r} 28013 \\ 27243 \\ \hline 770 \end{array}$$

$$\begin{array}{r} 28013 \\ 27198 \\ \hline 815 \end{array}$$

$$\begin{array}{r} 28013 \\ 27178 \\ \hline 835 \end{array}$$

$$\begin{array}{r} 28013 \\ 27013 \\ \hline 112 \end{array}$$

$$\begin{array}{r} 28013 \\ 27243 \\ \hline 770 \end{array}$$

$$\begin{array}{r} 28013 \\ 27198 \\ \hline 815 \end{array}$$

$$\begin{array}{r} 28013 \\ 27178 \\ \hline 835 \end{array}$$

$$\begin{array}{r} 28013 \\ 27013 \\ \hline 112 \end{array}$$

$$\begin{array}{r} 4.16 \\ 280.03 \\ \hline 284.19 \\ 281 \\ \hline 319 \\ 396 \end{array}$$

$$\begin{array}{r} 281.00 \\ 279.98 \\ \hline 1.02 \end{array}$$

$$\begin{array}{r} 284.19 \\ 279.98 \\ \hline 4.19 \\ 32 \\ \hline 99 \\ 419 \\ 446 \\ \hline 27 \end{array}$$

N.S. Burn ash

0+25	F1.2	"	6.5
0+50	F1.6	"	7.4
0+75	F2.2	out	8.3
1+00	F3.2	"	9.8
1+25	F3.5	"	10.3

S.S. Burn ash

1+80	C1.2	out	5.0
1+75	C1.2	"	5.0
1+50	C1.2	"	5.0
1+25	F2.8	"	9.2
1+00	F2.5	"	8.8
0+75	F2.5	"	8.8
0+50	F2.2	"	8.3
0+25	F1.9	"	7.9

1480⁵ C 10

1480⁵ 4.79-8213

8299	86.58	0-5	1475-C10	4.5	82.4
<u>3.89</u>	8.45				82.5
86.88	78.43	+1.00 ⁵	1450-C10	7.3	82.6
479	H.1	<u>5.0</u>			82.4
8209	86.88	-2.8	1+25	46	82.3
	80.30	<u>9.2</u>			
86.9	6.58	-2.5	1+00	49	82.0
<u>45</u>		<u>8.8</u>			
824	3.9	-2.5	0+75	5.7	81.2
<u>43</u>	6.3	<u>8.8</u>			80.3
826	2.4	-2.2	0+50	6.8	80.1
<u>4.6</u>		<u>8.3</u>			
823	82.40	-1.9	0+25	7.6	79.3
4.9	<u>4.48</u>	<u>7.9</u>			
820	3.5		0+00	8.45	78.43
<u>67</u>	6.3				
81.2	82.50		0-25	8.8	
<u>68</u>	<u>4.38</u>				
80.1	3.4				
<u>76</u>	8299	8660	8660	8660	
793	8660	82.00	82.40	82.40	
	819	4.60	4.20	4.20	
	78.41	4.2	8660	8660	
		1.9	8250	8250	
			4.10	4.10	

92
61
31

668
65
18
554
572

424
411
13
556
569

868
84
28
558
586

628
594
34

442
426
16

28302
3.6
27942

~~572~~
504

307
297
10

80
3
27932
27803
139

435
17932
278675

B.M. 28023
302

28302
435
17867

28302
347
27961

5660
1760
3960

332
316
16
09

318
373
343
32

316
9
307

332
6
338

375660
2166
3494

375660
3035
2625

3497
3035
6665

1160
 438
 1898
 1398
 1076
322
 775
 758
 117
 85
 67
 18
 54
 596
 1126
 67
 1059
 510
 312
 822

574
 742
 1316
 67
 1249
 1249
 29
 594
 503
 91
 552
 42
 542
 503
 545

5.24 = 271
 73
 06
 1214
 35
 1249
 67
 1316
 742
 574

438
 742
 1180
 1035
 145
 60
 85
 586
 423
 163
 1009
 821
 188
 822
 755
 510
 332
 842

5.52 = 594
 552
 42
 542
 503
 545

21' $\frac{246}{220}$ $8\frac{1}{2}$ 7.0 82.99
 $\frac{353}{86.52}$
 $\frac{79.23}{7.29}$

149.3 $\frac{1}{2}$ C.B. to Rt. Gut. Line

84.43 0+00 $\frac{1}{2}$ C.B. = Grd 78.25
 $\frac{80.21}{6.31}$
 $\frac{81.19}{.98}$
 $\frac{5.33}{79.23}$

1.53 0+25 $\frac{3.93}{1.026}$
 $\frac{.21}{23.58}$
 $\frac{152}{0+50}$ $\frac{78.6}{102.18}$
 $\frac{30.6}{0+75}$

321.2 1+00
 $\frac{84.43}{.32}$
 $\frac{1+25}{83.16}$
 $\frac{1+27.6}{83.26}$

84.43 P.1. Gut Lines
 $\frac{78.25}{5.86}$ $\frac{1+27.6}{83.26}$ Line Ref.
 $\frac{84.43}{83.26}$
 $\frac{1.170}{.29}$

149.3 $\frac{1}{2}$ C.B. to Rt. Gut. Line
 $\frac{84.43}{8.5}$
 $\frac{84.43}{83.26}$
 $\frac{83.26}{83.26}$

84.43 $\frac{1}{2}$ C.B. to Rt. Gut. Line
 $\frac{84.43}{8.5}$
 $\frac{84.43}{83.26}$
 $\frac{83.26}{83.26}$

84.43 $\frac{1}{2}$ C.B. to Rt. Gut. Line
 $\frac{84.43}{8.5}$
 $\frac{84.43}{83.26}$
 $\frac{83.26}{83.26}$

84.43 $\frac{1}{2}$ C.B. to Rt. Gut. Line
 $\frac{84.43}{8.5}$
 $\frac{84.43}{83.26}$
 $\frac{83.26}{83.26}$

82.99 Lt. Rt
 $\frac{405}{87.04}$ $\frac{87.04}{8.17}$ $\frac{1.26}{.05}$ $\frac{87.04}{7.79}$

0+00 $\frac{78.87}{.0630}$ 0+00 $\frac{79.25}{7.16}$

0+50 $\frac{87.04}{8.87}$ $\frac{78.25}{.06}$ $\frac{79.31}{7.16}$ 0+50 $\frac{79.88}{7.16}$

0+66 $\frac{87.04}{9.00}$ $\frac{78.19}{.06}$ 79.19 $\frac{7.04}{7.02}$

0+66 $\frac{78.04}{75}$ 80.02 0+62 $\frac{80.02}{87.04}$

887 $\frac{79.27}{7.79}$ $\frac{7.79}{7.79}$

8.17 $\frac{1.4}{.16}$ $\frac{86.52}{7.79}$ $\frac{1.26}{.12}$

.70 $\frac{8.4}{1.4}$ $\frac{79.19}{7.16}$ $\frac{1.26}{.12}$

9.00 $\frac{2.24}{1.26}$ $\frac{733}{63}$ $\frac{252}{126}$

8.87 $\frac{.13}{.66}$ $\frac{8300}{7.21}$ $\frac{7.16}{7.02}$

.13 $\frac{66}{170}$ $\frac{79.31}{7.21}$ $\frac{7.16}{7.02}$

9.00 $\frac{132}{380}$ $\frac{7.16}{7.02}$ $\frac{.14}{.14}$

8.17 $\frac{132}{380}$ $\frac{7.16}{7.02}$ $\frac{.14}{.14}$

.83 $\frac{132}{380}$ $\frac{7.16}{7.02}$ $\frac{.14}{.14}$

8.17 $\frac{132}{380}$ $\frac{7.16}{7.02}$ $\frac{.14}{.14}$

.83 $\frac{132}{380}$ $\frac{7.16}{7.02}$ $\frac{.14}{.14}$

104.94 105.02

38 28
46.733 105.02
3.20 46.727 105.09

110.96 105.02 105.09

1.22
33
366
366
4026
27
854
244
3294

105.42
10481
61
105.42 38
40 28
105.02 66
105.42 32
33 38
105.09

105.02
104.72 104.87

105.02
30
104.72
15
104.87
105.02
15
08

104.96

105.09
30
104.79
15
104.94
105.09
15
05
105.02

2.8

3+52 3+52 72.33
37 30 35 71.73
21.65 27 14406
25 72.03

280.20 80.36 80.36
16. 74.98 73.45
280.36 5.38 73.65
76.23 75.70 6.71
4.13 4.66 74.60
76.95 76.15 5.76
3.41 4.21 72.90
25 75.10 7.46
23 5.26 73.45
74.15 6.91
6.21 72.45
7.91
73.05
7.31

808
694
214

2.72
2.65

07

26870
26863
(5+47)

26653
26646
07

5+67

489
764
6.94
482

808
764
44
107

37096
2777
19

584
53
26337
26295
26277
58
107

6.1721
26168
3.53
7.22
1.05

5787
26476
26454
22

26115
26010
1.05

6.94
2.22
6.72
5+67

6
2
4
2
4

69.9
19
6.88

ft 10 P 1
3.47
6.88

270.96
277.84
277.84
270.96
6.88

269.82
277.84
277.84
270.96
6.88

270.77
19

270.96 W.S.

5727.2

269.82
277.84
277.84
270.96
6.88

271.78
271.38
271.78

272.33
271.78
272.18
271.38
271.38
47
453

432
406
26

271.73
271.38
35

271.98
20
271.78
272.18
271.38
271.38
47
453

456
453
3

$$\begin{array}{r} 28023 \\ 108 \\ \hline 28131 \\ 28136 \\ \hline 28136 \\ 17602 \\ \hline 28136 \\ 17602 \\ \hline 47451 \end{array}$$

$$\begin{array}{r} 28136 \\ 27138 \\ \hline 998 \\ 1048 \\ \hline 1048 \\ 28136 \\ 27138 \\ \hline 998 \\ 1048 \\ \hline 1048 \end{array}$$

$$\begin{array}{r} 28136 \\ 27178 \\ \hline 958 \\ 104 \end{array}$$

$$\begin{array}{r} 28136 \\ 591 \\ \hline 573 \\ 18 \\ \hline 591 \\ 591 \\ \hline 591 \\ 581 \\ \hline 104 \end{array}$$

$$\begin{array}{r} 28136 \\ 27545 \\ \hline 379 \\ 591 \\ \hline 562 \\ 591 \\ \hline 591 \\ 591 \\ \hline 591 \end{array}$$

$$\begin{array}{r} 27602 \\ 27545 \\ \hline 57 \end{array}$$

$$\begin{array}{r} 28136 \\ 27669 \\ \hline 467 \\ 337 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 28067 \\ 27233 \\ \hline 834 \\ 954 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 28067 \\ 27240 \\ \hline 828 \\ 116 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 28136 \\ 27602 \\ \hline 474 \\ 534 \\ \hline 28003 \\ 133 \end{array}$$

$$\begin{array}{r} 28067 \\ 27233 \\ \hline 847 \\ 908 \\ \hline 908 \end{array}$$

$$\begin{array}{r} 28067 \\ 27230 \\ \hline 847 \\ 884 \end{array}$$

F039

958
794
1.64
804
849
708
794
27273
28067

776
+ -52
724
724
37343
2806739
888
849
27218
28067
516
28067
679
516
1.63
28067
27543
524
437
87

28003
28067
64
27293
7.74
7.08
3.62
2.07
28067
27388
679
516
1.63
28067
27543
524
437
87

28067
27623
4.44
2.47
1.97
516
28067
362
603
6.29
27438
28067
362
516

K-01

Canada Way Grade Change Sta. 9+50 to 21+50 1-15-36

Station	Lt	q	Rt	Station	Lt	q	Rt
9+50	149.51	149.81	149.51	18+80	137.56	138.04	137.52
9+75	149.15	149.50	149.37	19+00	137.42	137.90	137.38
10+00	148.70	149.20	149.20	+20	137.27	137.75	138.23
+20	148.35	148.94	149.25	+40	137.12	137.58	137.96
+36 31	148.05	148.68	149.26	+60	137.08	137.40	137.61
+60	147.61	148.39	149.15	+7403	136.95	137.20	137.35
+80	147.23	148.10	148.95	20+0485	136.99	136.98	136.70
11+00	146.92	147.79	148.67	+20	137.00	136.69	136.35
+20	146.58	147.45	148.32	+40	137.00	136.45	135.92
+40	146.24	147.11	147.98	+72	136.98	136.03	135.15
+60	145.87	146.74	147.61	21+00	136.87	135.83	134.68
+80	145.50	146.37	147.24	+25	136.71	135.53	134.28
12+00	145.11	145.98	146.85	+50	136.40	135.22	134.00
+25	144.61	145.48	146.35				
+50	144.11	144.98	145.85				
+75	143.70	144.48	145.11				
1279122	143.48	144.12	144.61				
13+25	142.98	143.47	143.52				
+50	142.57	142.97	142.80				
+70	142.07	142.37	142.10				
14+00	141.68	141.98	141.68				
+20	141.32	141.62	141.32				
+40	140.98	141.28	140.98				
+60	140.67	140.97	140.67				
+80	140.38	140.68	140.38				
15+00	140.12	140.42	140.12				
+20	139.88	140.18	139.88				
+40	139.67	139.97	139.67				
+60	139.48	139.78	139.48				
+80	139.32	139.62	139.39				
16+00	139.18	139.48	139.35				
+20	139.02	139.37	139.37				
+53598	138.78	139.20	139.40				
+75	138.62	139.10	139.41				
	138.49						
17+00	138.49	138.97	139.39				
+50	138.24	138.72	139.20				
18+00	137.99	138.47	138.95				
+40	137.79	138.27	138.75				
+60	137.68	138.16	138.64				

Land wiew
Change of Grade
on Canada

Station	CROSS ROAD			30' Road			Way to Park Blvd across P.H. Canyon		
	Lt.	℄	RT	Lt.	℄	RT	Lt.	℄	RT
0+00	260.72	260.15	259.65	9+40	192.3	190.40	190.57	u	
+25	260.60	260.60	260.20						(5317-5317A)
0+50	260.45	260.75	260.45	+60	193.43	192.60	191.77		L. Sheets
1+00	260.20	260.45	260.35	+80	194.78	193.95	193.12		
1+41.29 PC	259.90	260.20	260.10	10+00	196.28	195.45	194.62		
1+50	259.85	260.15	260.04	+20	197.88	197.08	196.22		
1+97.57	259.60	259.75	259.80	+40	198.74	198.88	197.14		
2+25	259.60	259.65	259.55	+75	202.80	202.42	201.83		
+46.29	259.50	259.30	258.62	11+00	205.15	205.06	204.08		
+62.30	259.37	258.42	257.60	+25	207.55	207.71	207.36		
+80	258.10	257.10	256.10	+50	210.06	210.36	210.06		
3+00	256.00	255.00	254.00	+75	212.70	213.00	212.70	u	
3+20	254.65	253.65	252.65	12+00	215.35	215.65	215.35		
3+40	251.43	250.43	249.43	+50	220.64	220.94	220.64		
3+40	249.72	248.72	247.72	13+00	225.94	226.24	225.94		
4+00	239.43	238.43	237.43	+50	231.23	231.53	231.23		
4+50	230.86	229.86	228.86	14+00	236.52	236.82	236.52		
5+00	222.29	221.29	220.29	+50	241.82	242.12	241.82		
5+25	218.01	217.04	216.01	15+00	247.11	247.41	247.11		
5+50	213.72	212.72	211.72	+50	252.45	252.70	252.35		
5+75	207.24	208.44	207.54	+75	255.35	255.35	254.80		
				16+00	258.20	258.00	257.45		
6+00 PT	204.60	204.15	203.35	+24.92 PC	261.00	260.60	259.90		
+20	200.92	200.72	200.05	+50	263.96	263.29	262.50		
+40	197.25	197.29	196.80	+75	266.77	265.94	265.11		
+60	193.70	193.86	193.56	17+00	269.42	268.59	267.76		
+80	190.55	190.85	190.55	+25	272.07	271.24	270.40		
7+00	188.25	188.71	188.41	+50	274.58	273.88	273.18		
+20	186.62	187.30	187.00	+72.27 PT	276.75	276.30	275.65		
7+34	186.16	186.95	186.55	+75	2	276.53			
+49	186.66	186.86	187.06	18+00	279.38	279.17	278.62		
+64	186.16	186.80	186.55	+25	281.82	281.82	281.40		
8+00	187.20	187.20	186.95	+50	284.25	284.47	284.15		
+20	187.80	187.48	187.15	+75	286.82	287.12	286.82		
+40	188.35	187.80	187.35	19+00	289.46	289.26	289.44		
+60	188.92	188.20	187.68	+20	291.09	291.39	291.09		
+68.50 PC	189.18	188.39	187.85	+40	292.54	292.84	292.54		
+80	189.55	188.75	188.10	+60		293.91			
9+00	190.32	189.48	188.70	+80		294.40			
+20	191.21	190.38	189.55	+95.84 GdH					

Entered
Book G 183
P 72-77

Changed Jan 3-1936
CRB

For Landwiler
79

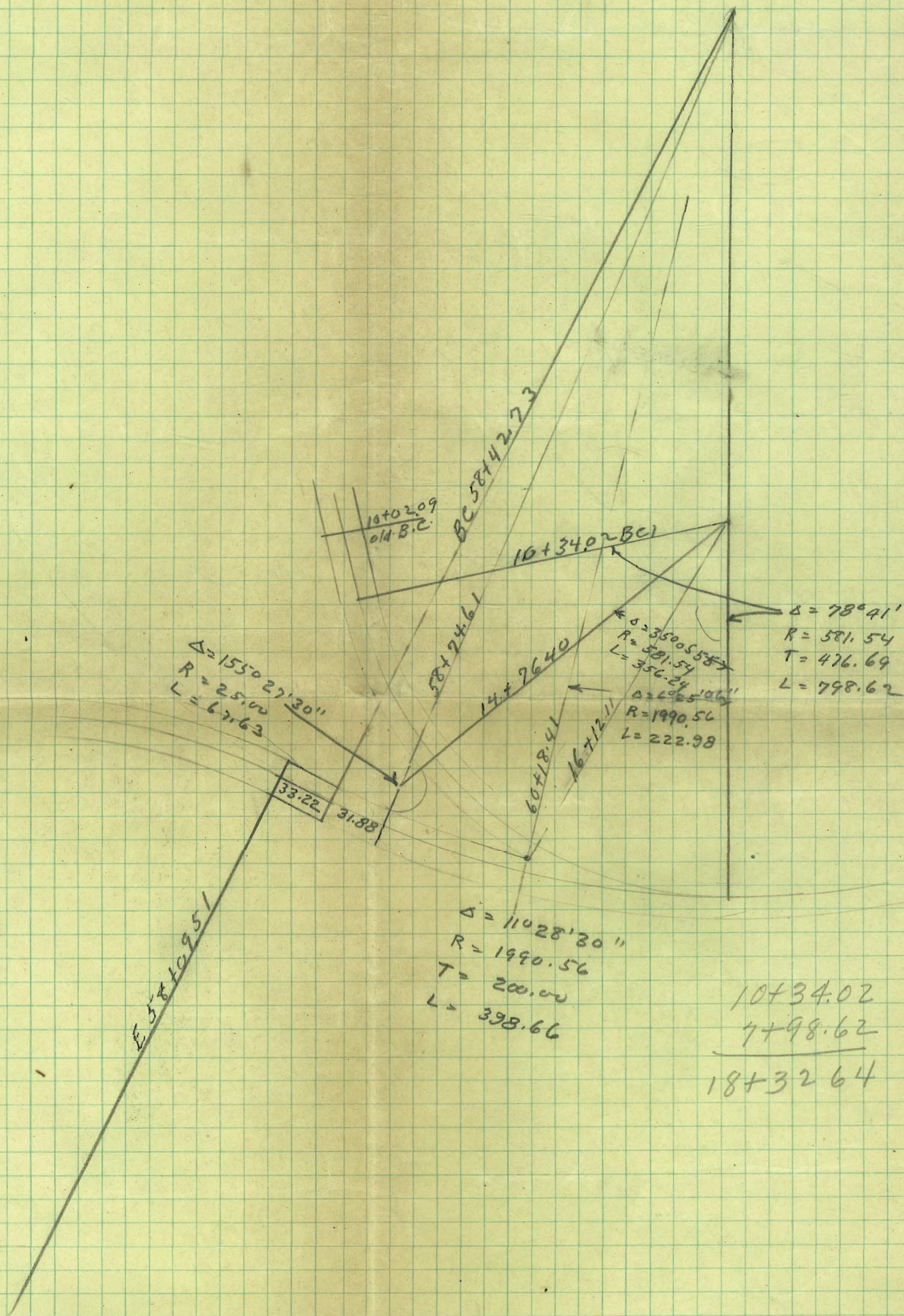
Latest Grades Canada Way at Park Blvd Connection change 12-13-35

Station	Lt	£	Rt	Station	Lt	£	Rt
Park Blvd Connection				Canada Way			
14+00	99.63	100.50	101.37	57+00	93.36	92.71	92.06
+25	97.38	98.45	99.30	+50	92.86	92.21	91.59
+50	95.53	96.40	96.72	+75	92.50	91.96	91.35
+76.40	93.55	94.42	94.42	58+00	92.28	91.71	91.20
End Return				+09.51	92.16	91.62	91.12
15+00	92.01	92.88	92.88	+42.73	91.70	91.29	90.90
+25	90.86	91.73	91.73	+74.61	91.32	90.97	90.67
+50	89.83	90.70	90.70	59+00	92.18	90.72	90.41
+75	89.25	90.12	90.12	+25	90.72	90.47	90.17
16+00	88.80	89.67	89.67	+50	90.41	90.22	89.92
+12.11	88.67	89.54	89.54	+75	90.08	89.97	89.67
+18.53	88.60	89.47	89.47	60+00	89.75	89.72	89.42
+43.26	88.42	89.22	89.22	+18.41	89.54	89.54	88.67
+69.98	88.24	88.97	88.97	+25	89.47	89.47	89.17
61+00	88.05	88.72	88.72	+50	89.22	89.22	88.92
+17+17.43	87.87	88.47	88.37				
+42.16	87.69	88.22	88.17				
+66.89	87.51	87.97	87.81	+75	88.97	88.90	88.67
+91.62	87.32	87.72	87.50	61+00	88.72	88.72	88.42
+18+16.34	87.14	87.42	87.17	+25	88.40	88.47	88.17
+32.54	87.02	87.32	87.02	+50	88.12	88.22	87.92
				+75	87.81	87.97	87.67
				62+00	87.50	87.72	87.42
				+25	87.19	87.47	87.17
				+41.39	87.02	87.32	87.02

Latest data

Entered Book G 163 P 61-67

Entered Book G 163 P 57-59



$\Delta = 155^\circ 27' 30''$
 $R = 25.00$
 $L = 67.63$

33.22 31.88

E 581095

$\Delta = 110^\circ 28' 30''$
 $R = 1990.56$
 $T = 200.00$
 $L = 398.66$

10+209
old B.C.

BC 58142.73

10+340 B.C.

58124.61

14+7640

60+18.41

16+712.11

$\Delta = 350^\circ 55'$
 $R = 581.54$
 $L = 356.24$

$\Delta = 60^\circ 5' 06''$
 $R = 1990.56$
 $L = 222.98$

$\Delta = 78^\circ 41'$
 $R = 581.54$
 $T = 476.69$
 $L = 798.62$

10+34.02
 7+98.62
 18+32.64

Grades Hwy. of Arden West end

3/3/36

Station	Lt	¢	Rt
16+00	257.69	257.99	257.69
+25	260.34	260.64	260.34
+50	262.98	263.28	263.15
+75	265.48	265.93	265.88
17+00	268.08	268.58	268.28
+25	270.55	271.23	271.70
+35.37	271.50	272.32	272.82
+50	273.02	273.87	274.58
+75	273.11	276.52	277.42
18+00	278.17	279.17	280.15
+20	280.28	281.28	282.28
+40	282.40	283.40	284.40
+60	284.42	285.42	286.42
+80	286.23	287.23	288.23
19+00	287.92	288.85	289.80
+20	289.53	290.27	291.08
+40	290.85	291.49	292.27
19+45.42	291.15	291.78	292.51
+60	292.00	292.51	293.25
+80	292.95	293.32	294.00
19+90.30		293.66	
19+83.30	293.08		
20+00	293.68		
20+19.78	294.00		

Entered
Book
E-183
Ps 76-78

PC Ret on Rt.
on Gutter of Ret

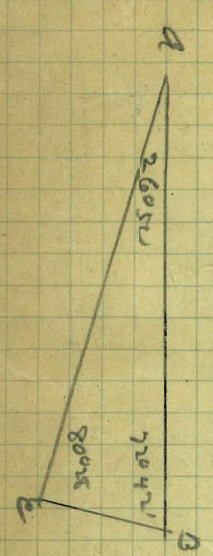
19+79.91 End of Ret

+ Int curb h/c.
PC Ret on Lt.

Gutter End of Ret

3464
432
3901

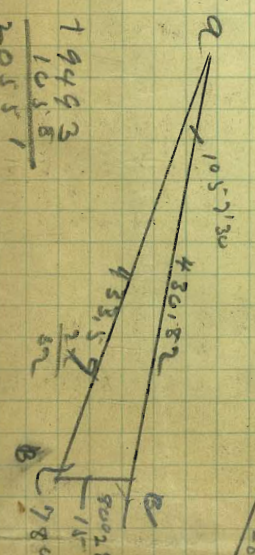
$T = 2000$
 $R = 779.19$
 $L = 391.55$



$\sqrt{28047130}$
14023'43"

$\sqrt{11028130}$
5'44'15"

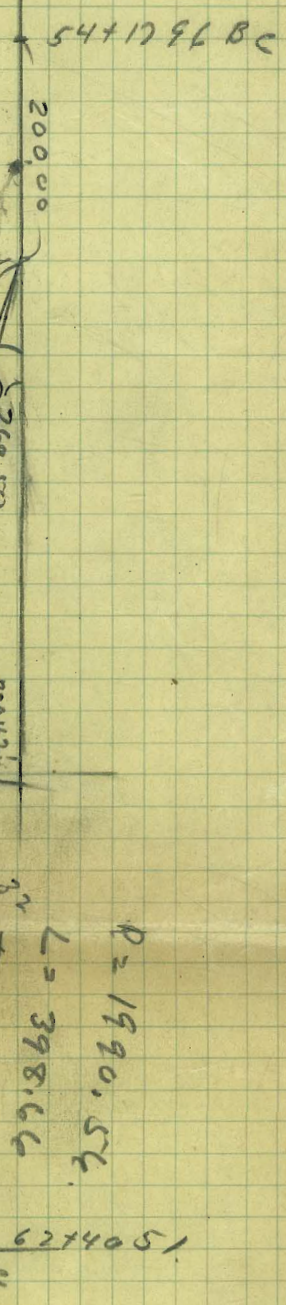
$T = 2000$
 $R = 779.19$
 $L = 391.55$



$a = \frac{68m}{5m8}$
 $1.46 = 2.6342959$
 $9m = 9.9939603$
 2.6282562
 9.9912055
 2.6370506

9932
8678
2010
107.18
7242
18000
783130
15730
2900

28047130
2000
15730



$P = 1990.56$
 $L = 398.66$
 $T = 2000$

Log 2000 = 2.3010300
9.4093901
779.19 6399
318994516
38947429
147087
11772
3.8994516
35312
30959206
77918400

Log 2000 = 2.3010300
 $\frac{1}{2} \log 50415 = 9.6020551$
3.2989749
R = 1990.56
1.27

9.9600724
9310088
1290836
72659
9.9600724
72659
99528065
199056130

$R = \frac{T}{\sin \frac{1}{2} I}$
 $\frac{2000}{\sin 15}$
78047130
4886922
136017
1454
5025693
391.55

1990.56
11028130
1919862
81449
1454
2062765
398.66

5441796
39155
5840951
3322
584273
39866
6244139
6244051
188

Richmond St & Canada Way Grades

Dec 20th 1935

	Lt	C	Rt
19+20	174.11	173.36	172.61
+40	172.80	172.05	171.30
+60	171.56	170.81	170.06
+80	170.40	169.65	168.90
20+00	169.30	168.54	167.81
+20	168.22	167.54	166.82
+40	167.25	166.60	166.02
+60	166.12	165.72	165.43
+75.75 EC	165.20	165.20	165.20
+87.18 = 0+00	164.45	164.65	164.88
+20	163.32	163.94	164.60
+40	162.29	163.32	164.30
+60	161.50	162.78	164.01
+80	160.95	162.32	163.71
19+00	160.58	161.95	163.30
+20	160.30	161.57	162.87
+40	160.09	161.19	162.35
+64.93	159.88	160.71	161.60
+80	159.77	160.42	161.40
2+00	159.58	160.04	160.36
+20	159.35	159.68	159.79
+40	158.97	159.27	159.22
+60	158.59	158.89	158.72
+80	158.22	158.52	158.25
3+00	157.84	158.16	157.86
+20	157.50	157.80	157.50
+40	157.17	157.47	157.17
+60	156.87	157.17	156.87
+80	156.55	156.85	156.55
4+00	156.26	156.56	156.26
+20	155.90	156.27	155.90
+40	155.71	156.01	155.71
+60	155.46	155.76	155.46

~~Landwiel~~
 Grades on Change for
 11/5

Entered P 68-71
 G. 183

Road Park Blvd to Canyada Way

Sta.	Lt	¢	Rt	Sta.	Lt	¢	Rt
0+00	201.2	201.50	201.2	17+50	87.70	87.95	87.95
+25	200.35	200.60	200.30	17+97.8)	87.15	87.48	87.48
+50	199.65	199.70	199.38	=62+24.11			
+85 BC	198.25	198.44	198.10				
Rt							
1+00	198.25	197.90	197.55				
+50	196.45	196.10	195.75				
2+00	194.65	194.30	193.95	53+25	96.30	96.60	96.30
+50	192.56	192.21	191.86	53+50	96.07	96.30	96.07
3+50	189.48	189.35	188.80	+75	95.90	96.00	95.65
3+27.11 BC	187.70	187.25	186.45	54+00	95.88	95.70	95.29
Rt							
3+50	187.00	186.36	185.42	+1796	95.87	95.52	95.16
+25	185.55	184.48	183.43				
4+00	183.55	182.50	181.45	+50	95.75	95.20	94.94
+50	179.45	178.40	177.35	55+00	95.35	94.70	94.05
5+00	175.35	174.30	173.25	+50	94.85	94.20	93.55
+50	171.25	170.20	169.15	56+00	94.36	93.71	93.06
6+00	166.15	166.10	164.05	+50	93.86	93.21	92.56
+50	163.05	162.00	160.95	57+00	93.36	92.71	92.06
7+00	158.95	157.90	156.85	+50	92.86	92.21	91.56
+50	154.85	153.80	152.75	+75	92.61	91.96	91.31
8+00	150.55	149.70	148.75	58+00	92.25	91.71	91.10
+250.4 EC	148.75	147.67	146.80	+1062	92.00	91.61	91.00
+50	145.70	145.60	145.00	+41.44	91.60	91.30	90.83
9+00	141.25	141.50	141.15	+62.93	91.46	91.09	90.77
+25	139.15	139.45	139.15				
+50	137.03	137.40	137.25	59+00	90.98	90.72	90.47
10+020.98	132.45	133.13	133.65	+50	90.38	90.22	89.95
+25	130.40	132.25	131.95				
10+50	128.33	129.20	130.05	60+04.24	89.65	89.68	89.81
11+00	124.23	125.70	125.97	+50	89.22	89.22	89.52
+50	120.13	121.00	121.82	61+00	88.72	88.72	88.20
12+00	116.03	116.90	117.77	+50	88.20	88.22	87.90
+50	111.93	112.80	113.67	62+00	87.58	87.72	87.42
13+00	107.83	108.70	109.57	+24.11	87.18	87.48	87.18
+50	103.73	104.60	105.47	+40.51	87.02	87.32	87.02
14+00	99.63	100.50	101.05	62+50	86.93	87.23	86.93
14+46.42	95.82	96.69	96.69	63+00	86.43	86.73	86.43
+25	93.48	94.35	94.35	+50	85.93	86.23	85.93
15+00	91.46	92.50	92.50				
+25	90.25	91.10	91.10	64+00	85.43	85.73	85.43
+50	89.33	90.20	90.20	+50	84.93	85.23	84.93
+76.61	88.81	89.68	89.68				
16+00	88.67	89.45	89.45	65+00	84.43	84.73	84.43
+50	88.35	88.95	88.95	+50	83.94	84.24	83.94
+88.02	88.45	88.45	88.45	66+00	83.44	83.74	83.44

end of Road to Park Blvd

Entered Book G183
61-67

Lower Canyada Road -

[Signature]
Rural District

[Signature]

3+3074
85
4+1574

28181

27890

290

1063
36
42798
41249
254988

120
1083
1000
960
400

4040
3+5660
3+97

8054
3+5660
4+3714