

W
516

ENGINEERS
LEVEL BOOK
No. 412 F

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

MICROFILMED

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to $30.6 = 32.6$. For slopes of 1 on 1½ see inside of back cover.

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Grades - sta 200+50 - 427+05.35 1-62

D

1
1
1
1
1
1
2
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2
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3
3
3
4
4

to t
of r
exa
30.6

Cont'd from Book 515- 796

497.17

Grade offcut \$ cut

200+11.3833

480.366

200+50 10.2 87.0

80.25 6.8

201+00 10.3 86.9

80.10 6.8

TP 3.50 490.37 10.28 486.89

+50 3.3 87.1

79.95 7.2

202+00 3.0 87.4

79.80 7.6

+50 2.8 87.6

79.65 8.0

-0.299959%

203+00 2.7 87.7

79.50 8.2

+50 3.1 87.3

79.35 8.0

204+00 3.5 86.9

79.20 7.7

+50 4.0 86.4

79.05 7.4

to 1
of r
exa
30.6

490.39

Grade off cut 4. cut

205+00

4.5 85.9

78.90 7.0

+50

4.2 86.2

78.75 7.5

206+00

4.4 86.0

78.60 7.4

B.M. 25A

4.16

491.74

487.58

July 23 1911
Super
Label
Removal

+54.14 BC

5.9 85.8

78.44 7.4

+75

5.9 85.8

78.37 7.4

207+00

5.9 85.8

78.30 7.5

+25

6.1 85.6

78.22 7.4

+50

6.5 85.2

78.15 7.1

+75

7.1 84.6

78.07 6.5

+87.8208

478.037

-0.299759%

to 1
of r
exa
80.0

491.74

Grade Off cut & cut

208+00

7.6 84.1

77.98 6.1

+25

7.9 83.8

77.85 6.0

+50

8.5 83.2

77.73 5.5

+75

8.8 82.9

77.61 5.3

209+00

-0.48828%

9.4 82.3

77.49 4.8

+25

9.5 82.2

77.37 4.8

+50

9.9 81.8

77.24 4.6

+75

6.7 85.0

77.12 7.9

+96.5883

477.018

210+00

6.6 85.1

76.99 8.1

to
of r
exa
30.

491.74

Grade Off cut & cut

210+25

5.6 86.1

76.83 9.3

+50

5.3 86.4

76.66 9.7

+75

5.1 86.6

76.49 10.1

211+00

5.1 86.6

76.33 10.3

+25

5.2 86.5

76.16 10.3

+39.42 EC

5.3 86.4

76.07 10.3

+50

5.4 86.3

76.00 10.3

HP

1.52

487.98

5.28

486.46

75.83

212+00

2.4 85.6

75.66 9.9

+25

75.50

+50

3.4 84.6

75.33 9.3

+75

75.17

213+00

4.3 83.7

75.00 8.7

+125

74.83

82579.0

to
of r
exa
30.

487.98

Grade off cut & cut

213+50

4.7 83.3

74.66 8.6

+75

74.50

214+00

5.0 83.0

74.33 8.7

+25

74.17

+44.3208

474.037

+50

5.1 82.9

74.03 8.9

215+00

5.1 82.9

73.94 9.0

+25

73.89

+50

5.0 83.0

73.85 9.2

+75

73.80

216+00

4.8 83.2

73.76 9.4

+25

73.71

+50

4.7 83.3

73.66 9.6

+75

73.61

217+00

5.2 82.8

73.57 9.2

+50

5.5 82.5

73.48 9.0

218+00

5.8 82.2

73.39 8.8

82.529%

85.081%

to of ex: 80

218+02.8208x

B.M. 26 2.40 485.98

+44.00B.C

+50

+75

219+00

+25

+50

+75

220+00

+25

-0.34236%

483.58

4.2 81.9

4.3 81.7

4.7 81.3

5.1 80.9

5.7 80.3

6.3 79.7

6.5 79.5

7.1 78.9

7.1 78.9

July 23 1931
2000
15th
Remission

Grade off cut & cut

473.3896

73.25 8.6

73.23 8.5

73.14 8.2

73.06 7.8

72.97 7.3

72.88 6.8

72.80 6.7

72.71 6.2

72.63 6.3

485.98

Grade offset & cut

220+50

7.1 78.9

72.54 6.4

+75

7.4 78.6

72.46 6.1

221+00

7.3 78.7

72.37 6.3

+25

7.3 78.7

72.29 6.4

+50

7.0 79.0

72.20 6.8

+75

7.6 79.0

72.11 6.9

221+90.44581

472.0625

222+00

6.9 79.1

72.02 7.1

+25

7.0 79.0

71.89 7.1

B.M. 27

7.73

487.96

480.23

July 15 1931
Super
Reinner
Label

+43.22 EC

9.0 79.0

10' offsets

71.81 7.2

+50

8.9 79.1

71.77 7.3

-0.34236%

-0.48263%

48796

Grade off cut & cut

222+75

71.65

223+00

8.4 79.6

71.53 8.1

+25

71.41

+50

7.7 80.3

71.29 9.0

+70.348C

7.4 80.6

71.19 9.4

+75

71.17

224+00

-0.48265%

7.7 80.3

71.05 9.3

+25

6.4 81.6

70.93 10.7

+50

6.2 81.8

70.81 11.0

+75

5.1 82.9

70.70 12.2

225+00

5.6 82.4

70.57 11.8

487.96

Grade Off cut & cut

225+25

4.9 83.1

70.45 12.7

+50

-0.48213%

8.5 79.5

70.23 9.2

+75

7.8 80.2

70.21 10.0

226+00

10.0 78.0

70.08 7.9

+08.0708X

470.0449

+25

10.6 77.4

70.16 7.2

+50

10.9 77.1

70.33 6.8

+65.81.00

11.3 76.7

70.43 6.3

B.M. 27

439 484.62

480.23

July 17 1921
50 ft
15 feet
Remain

+75

70.49

227+00

+0.66928%

7.9 76.7

70.66 6.0

+25

70.83

+50

7.2 77.4

71.00 6.4

484.62

227+57.3208

228+00

+25

+46.9278

+50

+75

229+00

+25

+50

17

12.23 494.83

2.02 482.60

+74.2480

+96.2378

230+00

+25

+50

+75

+85.8078

+1.9999%

+2.97910%

+3.48286%

6.9 77.7

6.9 77.7

6.4 78.2

3.5 81.1

10.9 83.9

6.9 87.9

5.4 89.4

Grade Off cut Q cut

471.0458

71.90 5.8

72.40

472.8375

72.93 4.8

73.67

74.42 3.8

75.16

75.91 5.2

76.63 7.3

477.2856

77.42 10.5

78.29

79.16 10.2

80.03

486.4052

494.83

231+00 4.1 90.7

+25

+50

+75

232+00 2.0 92.8

+35.1578

+50

+75

233+00 0.5 94.3

TP

2.24 495.74 1.33 493.50

+50

2.4 93.3

+75

234+00 2.4 93.3

+14.4078

+25

+50

+75

2.8 92.9

4.0 91.7

Grade off cut & cut

80.68 10.0

81.17

81.66 10.0

82.15

82.64 10.2

483.334

83.36 10.4

83.40

83.44 10.9

233+25 83.48

83.52 9.8

83.56

83.60 9.7

483.6292 9.3

83.37

82.78 8.9

82.18

495.74

Grade off cut & out

23	235+00		4.9	90.8		21.58	9.2
	+33.883		4.4	91.3	+25 →	80.98	
	+50		5.9	89.8		480.77	10.5
	+75		6.8	88.7		78.68	11.1
23	236+00		14.3	81.4		75.44	13.5
	+11.36 EC		16.7	79.0		72.20	9.2
	B.M. 28A	2.37	481.10	478.73		70.74	8.3
	+50		8.6	72.5			
23	236+76.94		10.8	70.3		65.72	6.8
	+81.7745					462.23	8.1
	237		10.9	70.2		462.1935	
	+50		12.5	68.6		62.06	8.1
23	238+00		13.1	68.0		61.69	6.9
	R	3.23	471.34	468.11		61.32	6.7
	+50		3.8	67.5		60.95	6.6

-12.95786%

-0.7518%

-0.73655%

July 28 193
Supp
1264
R...

471.34

Grade off cut & cut

239+00

4.1 67.2

60.58 6.6

+50

-0.7365%

4.3 67.0

60.22 6.8

240+00

4.6 66.7

59.85 6.9

+10.4195

459.772

+50

4.8 66.5

59.47 7.0

241+00

5.2 66.1

59.09 7.0

+50

-0.7525%

5.3 66.0

58.72 7.3

242+00

5.8 65.5

58.34 7.2

+50

6.0 65.3

57.96 7.3

243+00

8.2 63.1

57.58 5.5

August 1 1936

Soper
Bbell
Rummers

14

Grade off cut ♀ cut

B.M.^a 29 5.68 467.54 461.86

243+50 5.9 61.6 57.20 4.4

244+00 5.8 61.7 56.82 4.9

+50 6.4 61.1 56.45 4.7

245+00 5.4 62.1 56.07 5.9

+50 6.7 60.8 55.69 5.1

TP 2.16 462.99 6.71 460.83

246+00 2.4 60.6 55.31 5.3

+50 3.0 60.0 54.93 5.1

247+00 3.2 59.8 54.55 5.3

+50 3.7 59.3 54.18 5.1

+87.1695 X

453.896

-0.75648%

		462.99			Grade	off cut	at cut
248+00			4.6	58.4	53.82	4.6	
+50			5.2	57.8	53.51	4.3	
249+00			5.0	58.0	53.21	4.8	
+50			5.4	57.6	52.91	4.7	
250+00	870903.0-		5.4	57.6	52.61	5.0	
+50			5.9	57.1	52.30	4.8	
TP	3.51	460.59	5.91	457.08			
251+00			3.7	56.9	52.00	4.9	
+50			3.9	56.7	51.70	5.0	
252+00			5.0	55.6	51.39	4.2	

460.59

Grade off out & cut

252+50

4.4 56.2

51.09 5.1

chk on 31° 30

6.47 454.12 454.11

Rec elev

253+00

5.2 55.4

50.79 4.6

-0.60606%

+50

6.0 54.6

50.48 4.1

254+00

5.7 54.9

50.18 4.7

+50

5.9 54.7

49.89 4.8

255+00

6.5 54.1

49.57 4.5

104.16954

449.5505

+50

6.4 54.2

49.01 5.2

-1.17283%

256+00

6.6 54.0

48.43 5.6

+50

6.3 54.3

47.84 6.5

	460.59		
257+00		6.8	53.8
+50		7.7	52.9
258+00		7.9	
+02.8995		7.9	52.7
+50			
B.M. 31	1.65	462.55	460.90
+5917		2.5	60.0
259+00		2.2	60.3
+50		2.9	59.6
260+00		1.4	61.1
+41.8695			
+50		2.0	60.5

-1.17283%

+1.64158%

Grade	off cut	& cut
47.25	6.6	
46.67	6.2	
46.08		
446.0469	6.7	
46.82		
46.97	13.0	
47.64	12.7	
48.46	11.1	
49.28	11.8	
449.9698		
49.94	10.6	

	4162.55			Grade	Offset	cut
261+00		2.3	60.2	49.73	10.5	
+50		5.0	57.5	49.53	8.0	
262+00		5.2	57.3	49.32	8.0	
+50	-0.40998%	5.2	57.3	49.12	8.2	
263+00		5.7	56.8	48.91	7.9	
+50		4.7	57.8	48.71	9.1	
264+00.3695		4.9	57.6	448.500	9.1	
+50	-0.2508%	5.0	57.5	48.38	9.1	
265+00		4.5	58.0	48.25	9.8	

462.55

Grade Offcut & cut

265+50

4.9 57.6

48.12 9.5

266+00

5.1 57.4

48.00 9.4

+50

5.1 57.4

47.87 9.5

267+00

5.1 57.4

47.75 9.7

B.M. 31

-0.25086%

0.58 461.48

460.90

Aug 5 1926
Super
Remains
16001

+50

4.4 57.1

47.62 9.5

268+00

47.50

+06.20 BC

5.4 56.1

47.48 8.6

+50

6.3 55.2

47.37 7.8

+75

47.31

269+00

7.2 54.2

47.25 7.1

+25

47.18

+50

7.7 53.8

47.12 6.7

				Grade	off cut	% cut
	461.48					
269+60/16 EC.		7.9	53.6	47.10	6.5	
269+97.4945 X				447.002		
270+00		7.9	53.6	46.98	6.6	
+50		7.9	53.6	46.62	7.0	
P.S.						
	-0.7256%	5.37	458.84	8.03	452.45	
271+00		5.8	53.0	46.26	6.7	
+50		6.5	52.3	45.89	6.4	
272+00 X		7.6	51.2	45.53	5.7	
+06.6195 X				445.4844		
+50		7.4	51.4	45.37	6.0	
	-0.2559%					
273+00		10.6	48.2	45.24	3.0	
+50		10.3	48.5	45.12	3.4	

458.84

Grade off cut to cut

Station	Grade	off cut	to cut
274+00	6.6	52.2	44.99 7.2
+50	7.1	51.7	44.86 6.2
TP	6.14	458.90	6.08 452.76
275+00	5.2	53.7	44.73 9.0
+50	0.7	58.2	44.60 13.6
276+00	4.9	54.0	44.48 9.5
443.02 BC	5.3	53.6	44.37 9.2
+50	5.4	53.5	44.35 9.2
+75	5.7	53.2	44.29 8.9
277+00	5.6	53.3	44.22 9.1
+25	5.4	53.5	44.16 9.3

-0.255898

458.90

Grade off cut & cut

277+50

5.7 53.2

44.09 9.1

+75

5.3 53.6

44.03 9.6

278+00

5.1 53.8

43.97 9.8

+25

4.2 54.7

43.90 10.8

+50

4.7 54.2

43.84 10.4

+62.97 EC.

4.9 54.0

43.81 10.2

279+00

5.6 53.3

43.71 9.6

TR

5.81 459.96 4.75 454.15

+50

6.3 53.7

43.58 10.1

280+00

4.9 55.1

43.46 11.6

+50

11.2 48.8

43.33 5.5

868.52.0

459.96

Grade off cut & cut

281+00 12.7 47.3

43.20 4.1

+02.3695

443.1922

+50 11.8 48.2

43.03 5.2

282+00 12.8 47.2

42.85 4.4

+50 13.5 46.5

42.68 3.8

-0.35015

283+00 13.2 46.8

42.50 4.3

+50 10.8 49.2

42.33 6.9

284+00 8.5 51.5

42.15 9.4

+50 7.2 52.8

41.98 10.8

285+00 8.2 51.8

41.80 10.0

		459.96			Grade	off cut	cut
285+50			9.4	50.6	41.63	9.0	
TP	4.60	455.50	9.06	450.90			
286+00	-0.35015%		5.9	49.6	41.45	8.2	
+50			7.0	48.5	41.28	7.2	
286+99.8695 X			7.5	48.0	441.10	6.9	
+50			7.6	47.9	40.83	7.1	
288+00	-0.54370%		4.7	50.8	40.56	10.2	
+21.09 BC			6.1	49.4	40.44	9.0	
+50			4.8	50.7	40.28	10.4	
+75					40.15		
289+00			5.8	49.7	40.01	9.7	
+08.8070 X					439.964		
+50			8.2	47.3	39.80	7.5	
+75					39.70		

455.50

Grade off cut & cut

290+00

7.1 48.4

39.60 8.8

+25

39.50

+50

-0.40%

6.3 49.2

39.40 9.8

+75

39.30

291+00

6.3 49.2

39.20 10.0

+47.307 X

439.01

+50

6.7 48.8

39.01 9.8

+75

38.98

292+00

6.9 48.6

38.96 9.6

+25

-0.09123%

38.94

+50

7.7 47.8

38.92 8.9

+75

38.89

293+00

7.9 47.6

38.87 8.7

+25

38.84

+50

8.0 47.5

38.82 8.7

+55.9945 X

438.8196

294+00

7.9 47.6

38.66 8.7

+25

38.57

455.50

294+50

8.5 47.0

Grade off cut E cut

38.49 8.5

+75

38.40

295+00

9.5 46.0

38.31 7.7

+25

38.22

+50

10.2 45.3

38.13 7.2

T.P.

2.05 447.67 9.88 445.62

~~475~~

38.04

296+00

2.6 45.1

37.95 7.1

+29.60 EC.

-.035573%

2.7 45.0

37.85 7.2

+50

2.6 45.1

37.78 7.3

+75

37.69

297+00

2.6 45.1

37.66 7.5

+25

37.51

+50

2.6 45.1

37.42 7.7

+75

37.33

298+00

3.4 44.3

37.24 7.1

+25

37.15

+50

4.2 43.5

37.07 6.4

+75

36.98

447.67

299+00

4.3 43.4

+25

-0.35573%

+50

4.7 43.0

+75

300+00

5.0 42.7

+12.682

+50

5.1 42.6

+75

301+00

5.3 42.4

+25

-0.34322%

+50

5.5 42.2

+75

302+00

5.5 42.2

+25

+50

5.5 42.2

+75

303+00

5.4 42.3

+25

Grade off cut 4 cut

36.89 6.5

36.80

36.71 6.3

36.62

36.53 6.2

136.4875

36.36 6.2

36.27

36.19 6.2

36.10

36.02 6.2

35.93

35.84 6.4

35.76

35.67 6.5

35.59

35.50 6.8

35.41

		447.67				
303+50			5.5	42.2		
+75	-0.34322%					
304+00			5.9	41.8		
+25						
+50			6.5	41.2		
Σ	3.92	444.75	6.84	440.83		
304+90.682 X						
305+00			3.6	41.1		
+50	-0.88315%		3.9	40.8		
+75						
306+00			4.6	40.1		
+25						
+50		4.8	39.9			
306+99.807 X			5.2	39.5		
307+25						
+50	-0.19055%		5.9	38.8		
+75						

Grade off cut 4 cut

35.33 6.9

35.24

35.16 6.6

35.07

34.99 6.2

 $\left(\begin{array}{l} +75 \\ \rightarrow \end{array} \right)$ 34.90

434.8469

34.76 6.3

34.32 6.5

34.10

33.88 6.2

33.66

33.44 6.5

433.00 6.5

32.95

32.90 5.9

32.85

444.75

Grade off cut & cut

308+00			6.4	38.3	32.80	5.5
+50			6.0	38.7	32.70	6.0
309+00			5.8	38.9	32.60	6.3
ck on 309+33.09			5.6	439.15		
B.M. 35	6.05	444.98		438.93		
+33.0980			5.8	39.2	32.54	6.7
+50			5.7	39.3	32.50	6.8
+75			5.6	39.4	32.46	6.9
309+98.057					432.4078	
310+00			5.4	39.6	32.40	7.2
+25			5.2	39.8	32.35	7.5
+50			5.1	39.9	32.30	7.6
+75			5.1	39.9	32.25	7.7

-0.1985%

-0.20241%

Feb 20 1926
Super
Remmed

		444.98		
311+00			5.1	39.9
+25			5.2	39.8
+50			5.6	39.4
+75.807				
+77.96 EC			5.8	39.2
312+00			6.0	39.0
+50			6.6	38.4
313+00			4.2	37.8
TT	2.46	441.39	6.05	438.93
+50			4.0	37.4

- 0.20241%

Grade off cut & out

Grade	off cut	& out
32.20	7.7	
32.15	7.7	
32.10	7.3	
432.048		
32.04	7.2	
	For offset cuts 311+77.96 - 312+50 see Book 530 65	
32.50		For grades 311+75.807 - 314+05.343 see - W.D. 562
31.90		For offset cuts see 313+00 - 316+00 530 54
31.80		
31.70		

Grade off cut & cut

431.59

offset cuts 312 - 316 $\frac{530}{54}$

431.57

31.50

31.45

31.39

431.38

31.29

31.19

31.17 6.2

31.13

31.09 6.1

31.04

30.99 6.0

30.94

30.89 5.9

30.84

441.39

314+05.343 X

~~39~~ 39.5

+16.229 X

+50

~~37~~ 37.7

+75

315+00

~~39~~ 39.6

+05.791 X

+50

~~39~~ 39.5

316+00

316+11.775 Bk

316+06.41 Ad.

4.0 39.4

+25

+50

4.2 39.2

+75

317+00

4.4 39.0

+25

+50

4.6 38.8

+75

	441.39			Grade	off cut	cut
318+00		4.8	36.6	30.79	5.8	
+25				30.74		
+50		4.9	36.5	30.69	5.8	
+75				30.64		
319+00		5.0	36.4	30.59	5.8	
+25				30.54		
+50		5.2	36.2	30.49	5.7	
+75				30.44		
320+00		5.4	36.0	30.40	5.6	
B.M. 36	3.70 444.76		441.06	30.35		
+50		8.8	36.0	30.30	5.7	
+75				30.25		
321+00		9.0	35.8	30.20	5.6	
+25				30.15		
+50		9.0	35.8	30.10	5.7	
+87.427X				430.026		
322+00		8.7	36.1	30.03	6.1	
+25				30.05		

- 0.1971%

Aug 10 1924
Sopar
P. H. O. I.
Remm

+25

	444.76			Grade	off cut	\$ cut
322+50		8.3	36.5	30.07	6.4	
+75				30.09		
323+00		8.1	36.7	30.11	6.6	
+25				30.13		
+50		8.0	36.8	30.15	6.7	
+75				30.17		
324+00		7.8	37.0	30.18	6.8	
+25				30.20		
+50		7.6	37.2	30.22	7.0	
+75				30.24		
325+00		7.1	37.7	30.26	7.4	
+45.927 X				430.2953		
+50		6.4	38.4	30.33	8.1	
+75				30.52		
326+00		5.7	39.1	30.79	8.3	
+25				31.03		
+50		5.1	39.7	31.26	8.4	
+75				31.49		

+0.07511%

+0.92579%

444.76

Grade off cut to cut

327+00

4.8 40.0

31.72 8.3

+25

31.95

+50

4.4 40.4

32.18 8.2

+75

32.41

328+00

4.2 40.5

32.64 7.9

+25

32.88

+50

4.0 40.8

33.11 7.9

+75

33.34

329+00

3.6 41.2

33.57 7.6

+50

3.1 41.7

34.03 7.7

+54.3380

3.3 41.5

34.07 7.4

+93.907

434.4426

330+00

2.9 41.9

34.46 7.4

+25

34.53

+50

2.4 42.4

34.60 7.8

TP

12.64 454.91 2.49 442.27

75

34.67

331+00

12.6 42.3

34.74 7.6

+25

34.81

+0.9257%

+0.2788%

454.91			
331+50		12.2	42.7
+75	+0.27889%		
332+00		11.9	43.0
+25			
+50		11.3	43.6
332+62.22			
333+00		10.7	44.2
+25			
+45.65		10.1	44.8
+50		10.0	44.9
334+00	+3.9236%	8.4	46.5
+25			
+50		6.6	48.3
+75			
335+01.03		4.4	50.5
+25			
+50		22	52.7
+75			

Grade	Off. cut	9. cut
34.88	7.8	
34.95		
35.02	8.0	
35.09		
35.16	8.4	
435.19		
36.67	7.5	
37.65		
38.46	6.3	
38.63	6.3	
40.59	5.9	
42.56	5.7	
44.56	5.9	
45.63		
46.74	6.0	
47.85		

Grade change made

Sept 2 1936 per H.V.N.

		454.91		
TP	12.73	46.726	0.38	454.53
336+00			12.1	55.2
+50			9.7	57.6
+75				
337+00			7.8	59.5
+25				
+50			5.6	61.7
+75				
338+00			3.3	64.0
+35				
+50			0.9	66.4
+75				
TP	12.55	479.72	0.09	67.17
338+88.798				
339+00			11.2	68.5
+25				

Grade CR cut @ cut

48.95	6.3
51.18	6.4
52.29	
53.40	6.1
54.51	
55.62	6.1
56.74	
57.85	6.2
58.96	
60.07	6.3
61.18	
461.7948	
62.18	6.3
63.05	

479.72

339+50

7.4 70.3

Grade Off cut & cut

63.92 6.4

+75

64.78

+3.4695%

340+00

7.5 72.2

65.65 6.6

+25

66.52

+50

6.1 73.6

67.39 6.2

340+67.945 X

5.4 74.3

468.0104 6.3

+75

68.07
68.12

341+00

4.9 74.8

68.26 6.5
68.53 6.3

+25

68.46
68.94

+1.5329%
+0.7951%

+50

5.0 74.7

68.66 6.0
69.35 5.4

+75

68.86
69.76

341+87.425 X

4.8 74.9

468.96
469.9615 5.9

Grade change made

342+00

4.8 74.9

68.91 6.0
69.87 5.0

Sept 31 1936 per H.V.N.

+25

68.81
69.76

-0.4988%
-0.4070%

		479.72		
342+50		5.1	74.6	
+75				
343+00		5.0	74.7	
+25		5.3	74.4	
343+36.795		5.4	74.3	
+50		5.4	74.3	
343+66.67		5.8	73.9	
344+00		6.4	73.3	
+25				
+50		8.3	71.4	
+75				
345+00		10.2	69.5	
P.M. 88	0.13	476.44	476.31	
+50		8.5	67.9	
+75				
346+00		10.0	66.4	

-0.6988%
-0.4070%

3.2824%
-2.5434%

-1.1046%

-2.9388%

Grade Off cut & cut

68.71
~~69.52~~ 5.9
5.1
68.60
~~69.35~~
68.50 6.2
~~69.17~~ 5.5

Grade change made Sept 3

1936 per H.V.N.

469.40
~~469.00~~ 6.0
468.10
~~468.6458~~ 6.2
67.95 6.3
~~68.26~~ 6.0

467.77 6.1
67.52
66.79 6.5

66.05

65.32 6.1

64.58

63.85 5.7

63.11

62.38 5.5

61.65

60.91 5.5

476.44

Grade Off cut & cut

346+25

60.18

+35.41 X

459.87

+50

11.1 65.3

59.68 5.6

+75

59.37

347+00

11.5 64.9

59.05 5.8

TP

0.57 465.42 11.59 464.85

435 →

58.73

+50

1.4 64.0

58.41 5.6

+75

58.09

348+00

1.7 63.7

57.78 5.9

+25

57.46

+50

2.2 63.2

57.14 6.1

+75

56.82

349+00

3.4 62.0

56.50 5.5

+25

56.19

+50

4.7 60.7

55.87 4.8

+75

55.55

0.02221-

465.42

Grade Off cut & cut

350+00			52	60.2		55.23	5.0
						54.91	
+50			5.6	59.8		54.60	5.2
TP						54.28	
351+00			5.9	59.5		53.96	5.5
						53.64	
+50			5.7	59.7		53.32	6.4
+73.12						453.03	
+75						53.04	
352+00			6.2	59.2		53.21	6.0
125						53.37	
+50			6.4	59.0		53.53	5.5
+75						53.70	
353+00			6.4	59.0		53.86	5.1
TP	9.95	469.26	6.11	459.31		54.03	
+50			10.0	59.3		54.19	5.1
+75						54.35	

-1.2720%

+0.6561%

66

469.26

354+00	9.4	59.9
+25		
+50	8.7	60.6
+75		
355+00	7.9	61.4
+25		
+50	7.1	62.2
+75		
356+00	6.3	63.0
+19.53 BC	5.9	63.4
+21.23 X	5.9	63.4
+25 X	5.8	63.5
+37.5	5.7	63.6
+50	5.6	63.7
+62.5	5.7	63.6
+75	5.8	63.5
+87.5	5.9	63.4

+0.6561%

-1.3068%

Grade Off cut & cut

54.52	5.4
54.68	
54.85	5.8
55.01	
55.17	6.2
55.34	
55.50	6.7
55.67	
55.83	7.2
55.96	7.4
455.97	7.4
55.92	7.6
55.76	7.8
55.59	8.1
55.43	8.2
55.27	8.2
55.10	8.3

		469.26			Grade	Off cut	C cut
357+00			6.0	63.3	54.94	8.4	
+12.5			6.0	63.3	54.78	8.5	
+25			6.2	63.1	54.61	8.5	
+37.5			6.3	63.0	54.45	8.6	
+50			6.5	62.8	54.29	8.5	
+62.5			6.8	62.5	54.12	8.4	
+75			7.1	62.2	53.96	8.2	
+87.5			7.5	61.8	53.80	8.0	
358+01.8650			8.1	61.2	53.61	7.6	
B.M. # 40	7.81	460.83		453.02	53.31		
+50			0.7	60.1	52.98	7.1	
+75					52.65		
359+00			1.6	59.2	52.33	6.9	
+25					52.00		
+50			2.6	58.2	51.67	6.5	
+75					51.35		
360+00			3.5	57.3	51.02	6.3	

-1.3068%

Aug 17 1936
S. L. P. Co.
S. L. P. Co.
Kennebec

425

460.83

360+06.89 X

+150

4.4 56.4

361+00

5.2 55.6

+25

+50

6.0 54.8

+75

362+00

6.7 54.1

+25

-1.0019%

+50

7.4 53.4

+75

363+00

8.1 52.7

+25

+50

8.7 52.1

+75

364+00

9.4 51.4

TP

2.33

453.82

9.34 451.49

+50

2.9 50.9

+75

Grade Off cut & cut

450.93

50.50 5.9

50.00 5.5

49.75

49.50 5.3

49.24

48.99 5.1

48.74

48.49 4.9

48.24

47.99 4.7

47.74

47.49 4.6

47.24

46.99 4.4

46.74

46.49 4.4

46.24

453.82

Grade off cut & cut

365+00

3.4 50.4

45.99 4.4

125

45.74

150

3.8 50.0

45.49 4.5

175

45.24

366+00

4.1 49.7

44.99 4.7

125

44.74

150

4.2 49.6

44.48 5.1

175

44.23

367+00

4.0 49.8

43.98 5.8

125

43.73

150

4.3 49.5

43.48 6.0

367+98.35

443.00

368+00

5.2 48.6

42.94 5.7

125

42.07

150

6.4 47.4

41.21 6.2

175

40.34

- 1.0019%

- 3.4708%

453.82

369 +00

7.7 46.1

Grade Off cut In cut

39.47 6.6

+25

-3.4768%

4.3

38.60

+50

10.1 43.7

37.74 6.0

+75

369 +91.96

36.87

436.28

370 +00

13.5 40.3

36.09 4.2

TR

0.85 441.79 12.88 440.94

(25)

35.51

+50

3.2 38.6

34.92 3.7

+75

34.34

371 +00

4.0 37.8

33.75 4.1

+25

33.17

+50

-2.3376%

4.2 37.6

32.58 5.0

+75

32.00

372 +00

4.7 37.1

31.42 5.7

+25

30.83

+50

6.0 35.8

30.25 5.6

+75

29.66

373+00
 373+20.50
 +25
 +50
 +75

441.79
 7.8 34.0

374+00
 +25
 +50
 +75

11.9 29.9

375+00
 +25
 +50
 +75

13.2 28.6

376+00
 +25
 +50
 +75

9.4 22.7

377+00
 +25
 +50
 +75

6.4 25.7

378+00
 +25
 +50
 +75

12.3 19.8

379+00
 +25
 +50
 +75

12.3 19.8

380+00
 +25
 +50
 +75

12.3 19.8

381+00
 +25
 +50
 +75

12.3 19.8

grade 0.9 cut 2 cut
 29.08 4.9

428.60
 28.43

27.46 4.7

26.50
 25.53 4.4

24.56
 23.60 5.0

22.63
 21.67 5.6

20.70
 19.74 6.0

18.77
 17.81 4.9

447.0729
 16.84
 15.88 3.9
 14.91

-2.9576%

-3.8613%

-3.8613%

Aug 22 1921

495

B.M. 41 0.90 432.13

431.23

432.13

TR	0.91	420.02	13.02	419.11
377+00			1.8	18.2
377+38.4318				
+50			3.4	16.6
+75				
378+00			5.0	15.0
+25				
+50			5.6	14.4
+75				
379+00			6.4	13.6
+25				
+50			7.2	12.8
+75				
380+00			7.7	12.3
+25				
+50			8.5	11.5
3.M ^o 42	11.80	416.25		404.45
381+00			5.5	10.7
+25				

-3.8613%

-1.2852%

47

Grade	Off cut	4 cut
13.95	4.3	
412.4672		
12.31	4.3	
11.99		
11.67	3.3	
11.35		
11.03	3.4	
10.71		
10.38	3.2	
10.06		
09.74	3.1	
09.42		
09.10	3.2	
08.78		
08.44	3.0	
08.14		
07.81	2.9	
07.49		

	4/6.25			Grade	OA cut	% cut
381+50		6.1	10.1	07.17	2.9	
+75				06.85		
382+00		6.9	09.3	06.53	2.8	
+25				06.21		
+50		7.3	08.9	05.89	3.0	
+75				05.57		
383+00		7.9	08.3	05.24	3.1	
+25				04.92		
+50		8.1	08.1	04.60	3.5	
+75				04.28		
384+00		8.4	07.8	03.96	3.8	
+25				03.64		
+50		8.2	08.0	03.32	4.7	
+75				02.99		
385+00		7.9	08.3	02.67	5.6	
+25				02.35		
+50		9.1	07.1	02.03	5.1	
+75				01.71		

-1.2852%

416.25

386+00

11.7 05.1

Grade Off cut & cut

01.39 3.7

+25

01.07

+50

12.2 04.0

00.75 3.3

+75

00.42

387+00

12.9 03.3

00.10 3.2

+25

-1.2852%

399.78

+50

13.0 03.2

99.46 3.7

+75

99.14

388+00

13.1 03.1

98.81 4.3

+13.8468 X

12.8 03.4

99.6406 4.8

+25

98.91

+50

13.1 03.1

99.51 3.6

+75

400.12

389+00

+2.4190%

12.3 03.9

00.72 3.2

+25

01.33

416.25
 389+33.1268 X

11.4 04.8

+50

10.8 05.4

+75

390+00

7.4 08.2

+25

+4.8116%

+50

4.1 12.1

+75

+82.311 X

391+00

1.0 15.2

+25

+10.340%

11.35

426.55

1.05 415.20

+42.022 X

+50

9.3 17.2

+75

392+00

7.2 19.3

+25

+3.2028%

grade off cut 4 cut

401.526 3.3

02.34 3.1

03.54

04.74 4.1

05.94

07.15 5.0

08.35

408.7042

09.42 5.8

10.42

411.113

11.40 5.8

12.30

13.20 6.1

14.10

426.55

Grade off cut & cut

392+31.589 X

414.3385

392+50

5.6 20.9

14.82 6.1

+75

15.47

393+00

4.5 22.0

16.12 5.9

+25

16.77

+50

3.3 23.2

17.42 5.8

+75

18.07

394+00

2.0 24.5

18.73 5.8

TP

10.31

436.52

0.34

426.21

125 →

19.38

+50

9.7 26.8

20.03 6.8

+75

20.68

395+00

9.1 27.4

21.33 6.1

+25

21.98

+50

7.6 28.9

22.64 6.3

+60.163 X

7.4 29.1

422.9016 6.2

+75

23.05

	436.52			Grade	Off cut	♀ cut
396+00		6.2	30.3	23.30	7.0	
+25				23.55		
+50		5.9	30.6	23.80	6.8	
+75				24.05		
397+00		5.3	31.2	24.30	6.9	
397 +39.343 X				424.6932		
+50		4.5	32.0	24.73	7.3	
+75				24.82		
398+00		4.6	31.9	24.91	7.0	
+25				24.99		
+50		4.1	32.4	25.08	7.3	
+75				25.17		
399+00		4.0	32.5	25.16	7.3	
+25				25.35		
+50		3.6	32.9	25.44	7.5	
400+00		5.0	31.5	25.61	5.9	
400 +08.213 X		5.0	31.5	425.6437	5.7	
+25				25.32		

+0.9995%

+0.3535%

		436.52			Grade of cut	\$ cut
400+50			6.0	30.5	24.84	5.7
+75					24.36	
401+00			7.1	29.4	23.88	5.5
+125	-1.9204%				23.40	
+150			8.1	28.4	22.92	5.5
+75					22.44	
402+00			9.0	27.5	21.96	5.5
TP	0.45	428.32	8.65	427.87	21.48	
402+47.169 X					421.0547	
+150			2.0	26.3	20.97	5.3
403+00			3.6	24.7	19.45	5.3
+125	-3.0443%				18.68	
+150			5.3	23.0	17.92	5.1
+75					17.16	
404+00			5.7	22.6	16.40	6.2
+125					15.64	
+150			8.1	20.2	14.88	5.3
+75					14.12	

		428.32		
405+00			9.2	19.1
+25				
+50			10.2	18.1
405+75.640 X			10.5	17.8
406+00			10.9	17.4
+25				
+50			11.4	16.9
+75				
407+00			11.8	16.5
R	6.96	423.45	11.83	416.49
+50			7.1	16.3
+75				
408+00			7.0	16.4
+25				
+50			6.0	17.4
+75				
409+00			4.5	18.9
+25				

-3.0443%

-0.1185%

Grade Off cut & cut

1336	5.7
12.60	
11.83	6.3
411.055	6.8
11.03	6.3
11.60	
10.97	5.9
10.94	
10.91	5.6
10.88	
10.85	5.5
10.82	
10.79	5.6
10.76	
10.73	6.7
10.70	
10.67	8.2
10.64	

25

Grade Off cut 4 cut

B.M. 44	7.64	424.70	417.06		
409+34.14				410.63	
+50		4.9	19.8	10.61	9.2
+75				10.58	
410+00		4.8	19.9	10.55	9.4
410+23.77				410.52	
+50		6.2	18.5	10.41	8.1
410+53.64				410.40	
+75				09.61	
411+00		7.5	17.2	08.69	8.5 ⁵
+25				07.77	
+50		11.2	13.5	06.85	6.7
+73.35BC				05.99	

-0.1227%

-0.4017%

-3.6868%

Sept. 24 1932

56

Super
12.0 ft
Moore

Grade Off cut & cut

B.M. 44	149	418.55		417.06		
411+77.21			7.3	11.2	05.6	5.6
411+80.65 Bk						
411+81.07 And					05.72	
412+00			9.5	09.0	05.02	4.0
+25					04.10	
412+43.19					403.427	
+50			11.0	07.5	03.40	4.1
+75					03.30	
413+00			11.3	07.2	03.20	4.0
P	5.36	412.55	11.30	407.25		
+25					03.10	
+50			4.3	08.2	03.00	5.2
+75					02.90	

-3.688%

-0.3980%

41255

Grade off cut & cut

414+00	3.9	08.6	02.80	5.8
75	7.7	08.4		
+25	7.0		02.70	
+50	4.1	08.4	02.60	5.8
+75			02.50	
415+00	4.3	08.2	02.40	5.8
+25			02.30	
+50	4.6	07.9	02.21	5.7
+75			02.11	
416+00	4.9	07.6	02.01	5.6
+25			01.91	

-0.3980%

					Grade	Off cut	\$ cut
	412.55						
416+50			5.2	07.3	01.81	5.5	
+75	590	412.90			01.71		
					01.66		
417+00			6.0	06.5	01.61	4.9	
+25					01.51		
+50			6.8	05.7	01.41	4.3	
+55.01					401.39		
+75					01.37		
418+00			6.4	06.1	01.34	4.8	
TR	5.50	411.63	6.42	406.13			
+25					01.32		
+50			4.5	07.1	01.29	5.8	
+75					01.26		

-0.3980%

-0.10343%

411.63

Sept 25 1936

Soper
18211
Moore

59

Grade Off cut 4 cut

419+00

5.0 06.6

01.24 5.4

TR

446

412.42 5.67 407.96

419+10.4480

5.5 06.9

01.23 5.7

+25

5.1 07.3

01.21 6.1

+50

5.2 07.2

01.19 6.0

+66.7760

5.3 07.1

01.17 5.9

+75

-0.10343%

01.16

420+00

5.5 06.9

01.14 5.8

+25

01.11

+48.9375

5.6 06.8

01.09 5.7

+50

01.09

+75

5.5 06.9

01.06 5.8

	412.42			Grade	off cut	of cut
421+00	54	07.0		401.03	6.5	
+25	54	07.0		01.01	6.0	
+50	51	07.3		00.98	6.3	
+75	46	07.8		00.96	6.8	
+99.37 EC	39	08.5		00.93	7.6	
422+00	51	7.1		00.93		
422+21.02 Bk						
422+36.68 A1d.	3.3	09.1		00.91	8.2	
+50				00.89		
+80	1.8	10.6		(+75) → 00.87	9.7	
423				00.84		
+10	2.3	10.1			9.3	
+12.28 BC				00.83		

-0.10343%

					Grade	Off cut	4 cut
B.M. 45	5.25	H13.01		407.76			
423+19.78A			2.1	10.9		10.1	
423+25.15 Bk.							
423+27.28 Hd.					00.82		
+50			2.9	10.1	00.79	9.3	
423+62.551 X					400.78		
+75					00.59		
424+00			4.3	08.7	00.24	8.5	
+22.301 X						8.7	
+25					399.943		
+50			6.1	06.9	99.86		
+75					99.11	7.8	
425+00			8.6	04.4	98.35		
+25					97.60	6.8	
+41.733 X					96.85		
+50			10.4	02.6	396.344		
11	3.93	406.81	10.83	402.18	96.28	6.3	
426+00			4.5	01.6	96.07		
					95.87	5.7	

0.1083%

-1.4058%

-3.0143%

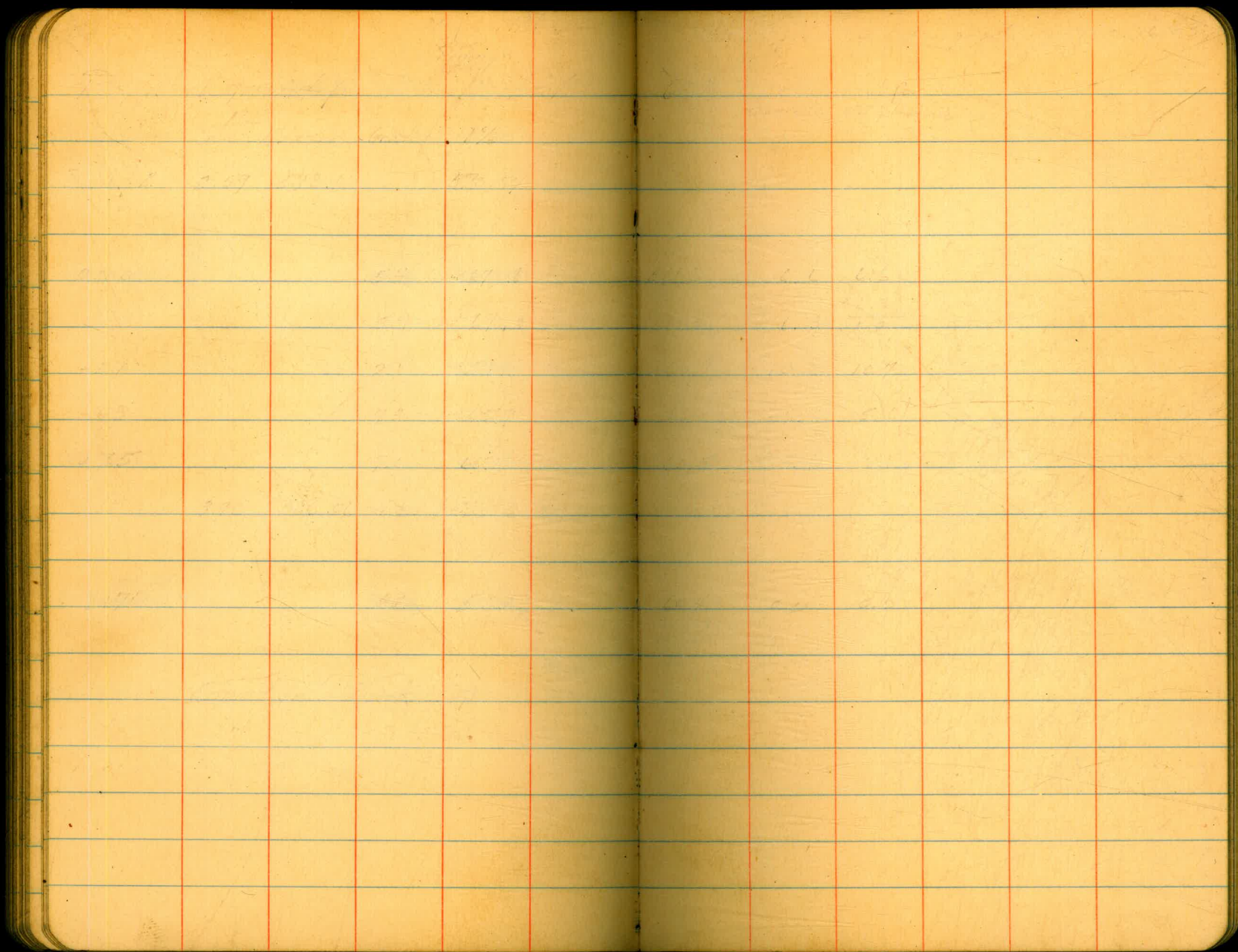
-0.8190%

(10)

	406.11			grade	off cut	& cut
426 + 25				95.66		
426 + 50		4.4	01.7	95.45	6.2	
+ 75				95.25		
427 + 00				95.05		
05.33 427 + 05.85 ✓		4.2	01.9	95.0	6.9	
Chen B.M		6.00	400.11			
			400.13			

= 0.8190%

Rec. Elev.



The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both pages. The right page has the number '64' written in the top right corner. The notebook is set against a black background.

Sept 16 1936
Super
Shell
Mare

65

Profile over line change - 409+34.14 - 418+58.30

B.M. #44

✓_m

417.06

6.20 423.26

409+34.14

3.0

420.3 ✓_m

+50

2.9

420.4 ✓

+75

2.8

420.5 ✓

410

3.0

420.3 ✓

+50

4.0

419.3 ✓

+92.80

5.7

417.6 ✓

→ Cont'd on page 69

411

5.8

417.5 ✓

+31

6.5

416.8 ✓

+50

7.8

415.5 ✓

412

10.6

412.7 ✓

TP

12.87

410.39 ✓

1.88

✓
412.27

412+50

2.8

409.5 ✓

412.27 ✓

412+83	4.9	407.4	✓ ^w
413	5.1	407.2	✓
+50	5.3	407.0	✓
414	5.4	406.9	✓
+31	4.2	408.1	✓
+50	4.2	408.1	✓
415	4.3	408.0	✓
+50	4.6	407.7	✓
416	4.8	407.5	✓
+50	5.5	406.8	✓
+86	5.6	406.7	✓
417	6.5	405.7	✓
+30	6.8	405.5	✓
+50	4.8	407.5	✓
+59	3.7	408.6	✓
418	4.0	408.3	✓
+50	4.2	408.1	✓

✓
412.27

418+58.30

4.2 408.1 ✓

418+97.30

ck. on 13' off.
sta 419400

5.3 07.0 ✓

13' off. = 407.0 page

Sept 23 1936

Soper

Isbell

Moore

68

~~Profile over line change 409+34.14-419+04.15~~

~~B.M. #44~~

~~417.06~~

~~115 418.21~~

~~411+00~~

~~0.9 417.4~~

~~150~~

~~4.6 13.6~~

~~162.80~~

~~5.9 12.3~~

~~412+00~~

~~7.5~~

~~150~~

~~10.0~~

~~413~~

~~11.0~~

~~150~~

~~11.2~~

~~414~~

~~10.5~~

~~T.P.~~

~~9.79 408.42~~

Profile 409434.14 - 411400 - page 65

Sept 24 1932

Soper
1324
Moore

69

Profile overline change 411400 -

Used as funds for Chest E

538
50
XIN

B.M. # 44 1.49 418.55 417.06

411400 1.1 417.4

+50 4.9 413.6

+77.21A 7.3 411.2

412400 8.5 410.0

+50 10.6 408.0

413 11.2 407.4

TR 11.30 <407.25

5.30 412.55

413450 4.8 407.8

414 4.2 408.4

+50 4.1 408.4

415 4.4 408.2

+50 4.7 407.8

416 5.0 407.6

41255

416150 5.3 407.2 ✓

417 6.1 406.4 ✓

150 7.0 405.6 ✓

418 5.7 406.8 ✓

P. 6.42 406.13 ✓

5.50 41163 ✓

418+10 5.2 406.4 ✓

+34 3.2 408.4 ✓

+50 3.1 408.5 ✓

419 3.4 408.2 ✓

P. 5.67 407.96 ✓

(No. B.M. #45)

446 412.48 ✓

410.4480 4.2 08.2 ✓

+25 4.3 08.1 ✓

50 4.5 07.9 ✓

+62.77EC 4.7 07.7 ✓

420 5.0 07.4 ✓

412.42

420+48.93

5.1 407.3 ✓

+50

5.1 07.3 ✓

+75

5.0 07.4 ✓

421

5.0 07.4 ✓

+25

4.9 07.5 ✓

+50

4.8 ✓ 07.6 ✓

+75

4.6 07.8 ✓

+99.37 EC

4.2 08.2 ✓

422+00

4.2 08.2 ✓

422+21.02 BK

3.8 08.6 ✓

422+36.68 MM

422+80

2.3 10.1 ✓

423+10

2.4 10.0 ✓

423+19.78 D

2.8 09.6 ✓

P

2.81 (409.61) ✓

3.27 412.88

423+50

3.9 09.0 ✓

424

5.4 07.5 ✓

412.88

4 424 150

7.5 405.4 ✓

425

8.2 04.7 ✓

150

10.5 02.4 ✓

426

10.9 02.0 ✓

150

11.1 01.8 ✓

427 105.85

11.4 01.5 ✓

P.

11.61 401.27 ✓

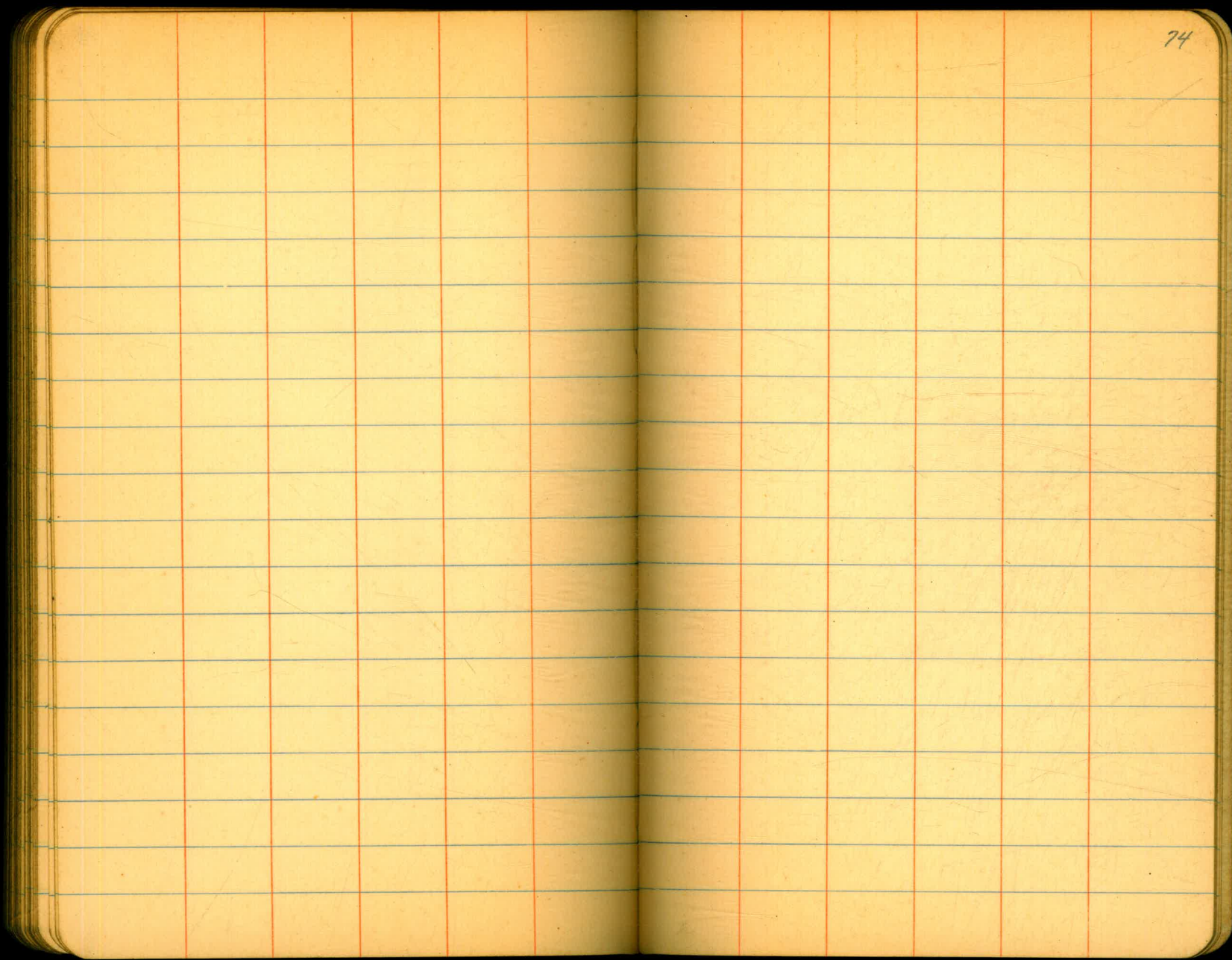
5.38 406.65

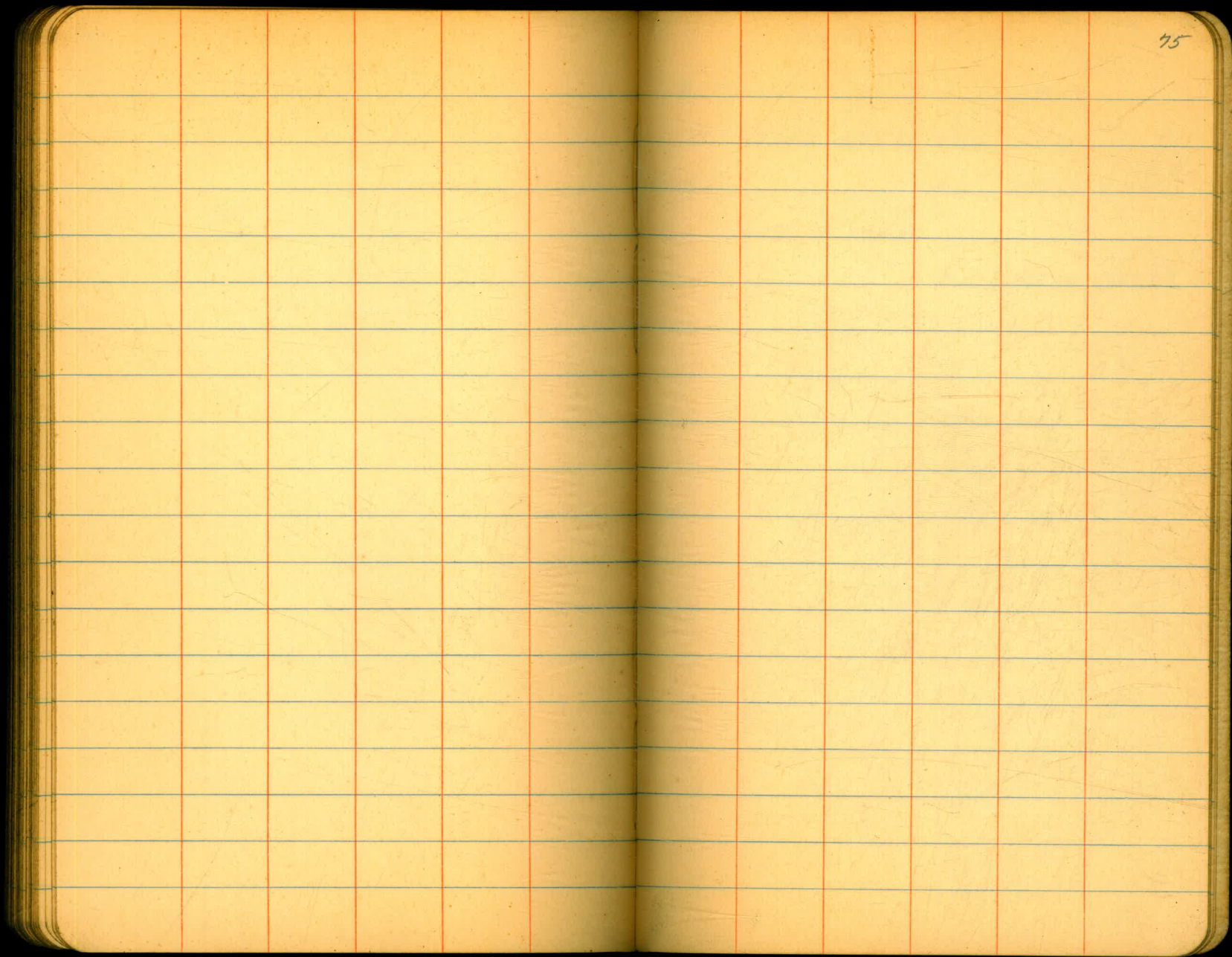
4 ch on County R.M.

6.45 400.20

Rec. cler. 400.22

4





New B.M. #3

May 1 1936 76
Super
Remover
Isobell

B.M. #2 2.61 573.18 570.57 ✓

P 3.64 572.90 3.92 569.26 ✓

st. new B.M.

4.01 568.89 New B.M. #3

1.96 570.85 ✓

2.11 568.74 (568.70) ✓

Rec
434
u

Office Coop
430 NW

B. M. # Description Elevation

1 P.O.R. 40' RT 12+70 563.65

2 Nail in Sycamore tree 14' RT 16+82 570.57

~~3~~ Nail in oak 25' RT 19+80 567.48 Destroyed

3 P.O.R. 25' RT 20+70 568.89

~~4~~ P.O.R. 23' RT 26+15 572.71 Destroyed

4 Nail in oak 18' LT 25+70 568.76 Book 524-29

5 ~~Nail in oak~~ 579.43 Destroyed

5A Nail in oak 35' LT 37+90 561.20

6 Nail in Oak 50' LT 38+25 568.88

7 P.O.R. 35' RT 51+50 539.49

~~8~~ Nail in Oak 13' RT 59+50 535.64 Destroyed

8A " 539.32

9 Nail in Oak 40' LT 68+85 537.23

B. M. # Description Elevation

~~10~~ Nail in Oak stump 25' RT 75+75 539.09 Destroyed

11 Nail in oak 75' LT 78+75 548.44

~~12~~ Nail in oak 8' RT 88+70 525.10 Destroyed

~~13~~ Nail in 4x4 Post 8' RT 97+10 535.94 Destroyed

14 Nail in Oak 12' RT 107+95 525.11 Destroyed

14A Nail in oak 25' LT 103+50 524.22

15 Nail in Sycamore 12' LT 107+30 518.83

16 Nail in Willow 25' LT 116+50 511.35

~~17~~ Nail in Oak 1' RT 120+05 514.43 Destroyed

Nail 510.23

18 Nail in 6x6 Post 35' LT 129+25 507.45

B. M. ^a	Description	Elev.
19	Nail in Oak 5' Rt 139+95	503.62
20	Nail in Oak 20' Rt 146+40	503.52
21	Nail in Sycamore 25' Rt 162+85	501.12
22	Nail in power pole #75551 35' Lt 174+10	502.60
23	" #173435 36' Lt 184+80	493.67
24	" #173430 35' Lt 196+05	494.68
25	" #173427 36' Lt 205+95	487.83
25a	"	487.58
26	" #179422 30' Lt 218+45	483.58

B. M. ^a	Description	Elev.
27	Nail in Oak 50' Lt 226+50	480.23
28	Nail in Oak 20' Rt 231+50	502.84
28A	1x1 hub 47' Lt 236+50	478.73
29	Nail in Sycamore 60' Rt 243+15	461.86
30	Nail in 1x2 marker 70' Rt 252+80	454.11
30a	Nail in Sycamore & new road	463.66 Destroyed.
31	Nail in rock 40' Lt 264+00	460.90
32	Nail in Sycamore 55' Lt 272+50	457.69
33	Nail in Oak 35' Lt 280+90	458.00
34	Nail in Sycamore 30' Rt 297+00	443.61

B.M. #	Description	Elev.
35	U.S.G.S. B.M. Pumping Plant	438.93
36	Nail in pole # 78854T 15'RT 329+20	441.06
37	Nail in power pole # 78744 30'LT 337+20	464.30
38	" # 78772 40'LT 343+40	476.31
	B.M.'s on Elm St. from $\frac{506}{53}$	
39	" # 78767 16'RT 351+10	463.35
40	" # 78762 10'RT 363+50	432.13
41	" # 78758 18'RT 375+25	421.95
42	Nail in Eucalyptus stump 18'LT 384+75	410.05
43	Nail in Pepper 70'LT 398+10	408.69

B.M. #	Description	Elevation
44	Nail P.P. # 78205 - Vine & Woodside	410.61
45	Nail P.P. # 78615 River & Woodside	408.95
	County B.M. # 21	400.13
	B.M.'s on Julian Ave. from $\frac{506}{71}$	
39	Nail in Power Pole # 74390 25'LT 354+0	459.92
40	Nail in 16" Eucalyptus 40'LT 364+65	453.02
	Nail in Eucalyptus 20'LT 375+30	
41	Nail in Eucalyptus stump 20'LT 375+30	431.23
42	Nail in P.P. # 78751 25'LT 388+30	404.45
43	Nail in P.P. # 78750 20'LT 400+05	435.33

B.M.*

Des.

Elev.

44 RR spike in quypak SW cor. Julian Chestnut 417.06

45 Nail in quypak 15' W 420+50 407.96

" " " " " 407.96

Pole moved - $\frac{516}{70}$

Oct 5 1926 Grade Bk of 425+41.73 not set before excavation

After excavation 425+50 is 0.4 high.

" " 425+00 is 0.3 high

" " 426+00 is 0.4 high

Average is 0.3 high 424+00 - 427

10.

I

0

1

2

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